Full wwPDB X-ray Structure Validation Report (i)

Jun 23, 2024 – 11:12 AM EDT

PDB ID	:	4RKU
Title	:	Crystal structure of plant Photosystem I at 3 Angstrom resolution
Authors	:	Mazor, Y.; Borovikova, A.; Greenberg, I.; Nelson, N.
Deposited on	:	2014-10-14
Resolution	:	3.00 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*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

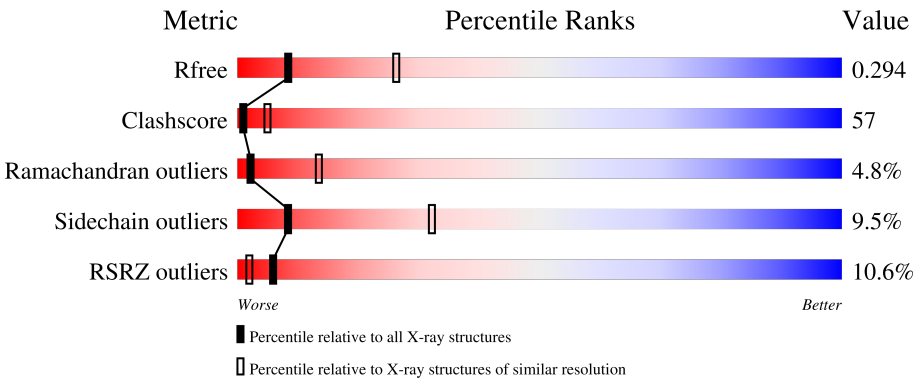
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.37.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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 >=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 <=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	721	6% 64% 34% •
2	B	731	5% 71% 29% •
3	C	80	% 60% 34% 6%
4	D	137	14% 43% 44% 11% •
5	E	63	24% 44% 41% 13% •

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Mol	Chain	Length	Quality of chain
6	F	152	3% 60% 36%
7	G	84	2% 27% 52% 17%
8	H	82	6% 44% 35% 16% 5%
9	I	26	8% 62% 27% 12%
10	J	40	60% 32% 5%
11	K	72	58% 39% 44% 8% 8%
12	L	163	2% 27% 56% 15%
13	N	85	53% 29% 45% 25%
14	1	182	12% 29% 50% 13% 6%
15	2	199	15% 22% 43% 7% 27%
16	3	275	16% 20% 23% 8% 45%
17	4	196	6% 38% 45% 15%

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
19	BCR	A	6002	-	-	-	X
19	BCR	A	6003	-	-	-	X
19	BCR	J	6013	-	-	-	X
20	LHG	1	1801	-	-	X	-
20	LHG	2	2801	-	-	X	-
21	CLA	1	1001	X	-	X	-
21	CLA	1	1002	X	-	X	-
21	CLA	1	1003	X	-	X	-
21	CLA	1	1004	X	-	X	-
21	CLA	1	1005	X	-	-	-
21	CLA	1	1006	X	-	X	X
21	CLA	1	1007	X	-	X	-
21	CLA	1	1008	X	-	X	-
21	CLA	1	1009	X	-	X	-
21	CLA	1	1010	X	-	X	X
21	CLA	1	1011	X	-	-	-
21	CLA	1	1012	X	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	CLA	1	1013	X	-	X	X
21	CLA	1	1014	X	-	X	X
21	CLA	2	2001	X	-	-	-
21	CLA	2	2002	X	-	X	-
21	CLA	2	2003	X	-	X	-
21	CLA	2	2004	X	-	X	-
21	CLA	2	2005	X	-	X	-
21	CLA	2	2006	X	-	X	-
21	CLA	2	2007	X	-	-	-
21	CLA	2	2008	X	-	X	X
21	CLA	2	2009	X	-	X	-
21	CLA	2	2010	X	-	-	-
21	CLA	2	2011	X	-	X	-
21	CLA	2	2012	X	-	X	-
21	CLA	2	2013	X	-	X	-
21	CLA	2	2014	X	-	-	-
21	CLA	3	3001	X	-	X	-
21	CLA	3	3002	X	-	-	X
21	CLA	3	3003	X	-	-	X
21	CLA	3	3004	X	-	-	X
21	CLA	3	3005	X	-	-	-
21	CLA	3	3006	X	-	-	X
21	CLA	3	3008	X	-	-	-
21	CLA	3	3009	X	-	X	-
21	CLA	3	3010	X	-	-	-
21	CLA	3	3011	X	-	X	-
21	CLA	3	3012	X	-	X	-
21	CLA	3	3013	X	-	-	-
21	CLA	3	3014	X	-	-	X
21	CLA	3	3015	X	-	-	X
21	CLA	3	3016	X	-	-	X
21	CLA	3	3017	X	-	-	X
21	CLA	4	4001	X	-	X	-
21	CLA	4	4002	X	-	X	-
21	CLA	4	4003	X	-	X	-
21	CLA	4	4004	X	-	X	-
21	CLA	4	4005	X	-	X	-
21	CLA	4	4006	X	-	-	-
21	CLA	4	4007	X	-	-	-
21	CLA	4	4008	X	-	X	-
21	CLA	4	4009	X	-	-	-
21	CLA	4	4010	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	CLA	4	4011	X	-	X	-
21	CLA	4	4012	X	-	X	-
21	CLA	4	4013	X	-	-	-
21	CLA	4	4014	X	-	X	-
21	CLA	4	4015	X	-	-	-
21	CLA	A	1101	X	-	-	-
21	CLA	A	1102	X	-	-	-
21	CLA	A	1103	X	-	-	-
21	CLA	A	1104	X	-	-	-
21	CLA	A	1105	X	-	-	-
21	CLA	A	1106	X	-	-	-
21	CLA	A	1107	X	-	-	-
21	CLA	A	1108	X	-	-	-
21	CLA	A	1109	X	-	-	-
21	CLA	A	1110	X	-	-	-
21	CLA	A	1111	X	-	-	-
21	CLA	A	1112	X	-	-	-
21	CLA	A	1113	X	-	-	-
21	CLA	A	1114	X	-	-	-
21	CLA	A	1115	X	-	-	-
21	CLA	A	1116	X	-	-	-
21	CLA	A	1117	X	-	-	-
21	CLA	A	1118	X	-	-	-
21	CLA	A	1119	X	-	-	-
21	CLA	A	1120	X	-	-	X
21	CLA	A	1121	X	-	-	-
21	CLA	A	1122	X	-	-	-
21	CLA	A	1123	X	-	-	-
21	CLA	A	1124	X	-	-	-
21	CLA	A	1125	X	-	-	-
21	CLA	A	1126	X	-	-	-
21	CLA	A	1127	X	-	-	-
21	CLA	A	1128	X	-	-	-
21	CLA	A	1129	X	-	X	-
21	CLA	A	1130	X	-	-	-
21	CLA	A	1131	X	-	-	-
21	CLA	A	1132	X	-	-	-
21	CLA	A	1133	X	-	-	-
21	CLA	A	1134	X	-	-	-
21	CLA	A	1136	X	-	-	-
21	CLA	A	1137	X	-	-	-
21	CLA	A	1138	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	CLA	A	1139	X	-	-	-
21	CLA	A	1140	X	-	-	-
21	CLA	A	1141	X	-	-	-
21	CLA	A	1142	X	-	-	-
21	CLA	A	1143	X	-	-	X
21	CLA	A	9012	X	-	-	-
21	CLA	A	9013	X	-	-	-
21	CLA	B	1201	X	-	-	-
21	CLA	B	1202	X	-	-	-
21	CLA	B	1203	X	-	-	-
21	CLA	B	1204	X	-	-	-
21	CLA	B	1205	X	-	-	-
21	CLA	B	1206	X	-	-	-
21	CLA	B	1207	X	-	-	-
21	CLA	B	1208	X	-	-	-
21	CLA	B	1209	X	-	-	-
21	CLA	B	1210	X	-	-	-
21	CLA	B	1211	X	-	-	-
21	CLA	B	1212	X	-	-	-
21	CLA	B	1213	X	-	X	-
21	CLA	B	1214	X	-	-	-
21	CLA	B	1215	X	-	-	-
21	CLA	B	1216	X	-	-	-
21	CLA	B	1217	X	-	-	-
21	CLA	B	1218	X	-	-	-
21	CLA	B	1219	X	-	-	-
21	CLA	B	1220	X	-	-	-
21	CLA	B	1221	X	-	-	-
21	CLA	B	1222	X	-	-	-
21	CLA	B	1223	X	-	-	-
21	CLA	B	1224	X	-	-	-
21	CLA	B	1225	X	-	-	-
21	CLA	B	1226	X	-	-	-
21	CLA	B	1227	X	-	X	-
21	CLA	B	1228	X	-	-	-
21	CLA	B	1229	X	-	-	-
21	CLA	B	1230	X	-	-	-
21	CLA	B	1231	X	-	-	-
21	CLA	B	1234	X	-	-	-
21	CLA	B	1235	X	-	-	-
21	CLA	B	1236	X	-	-	-
21	CLA	B	1237	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	CLA	B	1238	X	-	-	-
21	CLA	B	1239	X	-	-	-
21	CLA	B	1240	X	-	X	-
21	CLA	B	9010	X	-	X	-
21	CLA	B	9022	X	-	-	-
21	CLA	B	9023	X	-	-	-
21	CLA	F	1301	X	-	-	-
21	CLA	F	1302	X	-	-	-
21	CLA	F	1303	X	-	X	-
21	CLA	G	1001	X	-	-	-
21	CLA	G	1002	X	-	X	-
21	CLA	H	1000	X	-	-	-
21	CLA	J	1302	X	-	-	-
21	CLA	J	6014	X	-	-	-
21	CLA	J	6015	X	-	-	-
21	CLA	L	1501	X	-	X	-
21	CLA	L	1502	X	-	-	-
21	CLA	L	1503	X	-	-	-
23	CL0	A	9011	X	-	-	-
26	LUT	1	1501	X	-	X	-
26	LUT	1	1502	X	-	X	-
26	LUT	2	2501	X	-	X	-
26	LUT	2	2502	X	-	X	-
26	LUT	4	4501	X	-	X	X
26	LUT	4	4502	X	-	X	-
27	NEX	4	4503	-	-	X	X

2 Entry composition (i)

There are 28 unique types of molecules in this entry. The entry contains 34540 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Photosystem I P700 chlorophyll a apoprotein A1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	721	5675	3717	968	972	18	0	0	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	117	ARG	GLY	CONFLICT	UNP P05310
A	627	SER	THR	CONFLICT	UNP P05310
A	639	GLY	ALA	CONFLICT	UNP P05310

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	731	5834	3833	989	998	14	0	0	0

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	12	LEU	ILE	CONFLICT	UNP P05311
B	273	MET	VAL	CONFLICT	UNP P05311
B	471	SER	THR	CONFLICT	UNP P05311
B	476	VAL	ILE	CONFLICT	UNP P05311
B	477	LEU	PRO	CONFLICT	UNP P05311
B	483	SER	GLY	CONFLICT	UNP P05311
B	491	SER	ASN	CONFLICT	UNP P05311
B	603	GLN	ARG	CONFLICT	UNP P05311
B	635	TYR	ILE	CONFLICT	UNP P05311

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	C	80	612	379	107	115	11	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	D	137	1070	685	187	195	3	0	0	0

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
5	E	63	507	321	89	97	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
6	F	152	1196	776	206	212	2	0	0	0

- Molecule 7 is a protein called Photosystem I reaction center subunit V, chloroplastic.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
7	G	84	639	414	107	118	0	0	0

- Molecule 8 is a protein called Photosystem I reaction center subunit VI, chloroplastic.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
8	H	82	628	415	95	118	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
9	I	26	197	137	29	30	1	0	0	0

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
10	J	40	316	214	49	53	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
11	K	66	459	291	78	87	3	0	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
K	52	SER	PRO	CONFLICT	UNP E1C9L3
K	55	VAL	LEU	CONFLICT	UNP E1C9L3
K	59	ALA	THR	CONFLICT	UNP E1C9L3
K	62	THR	SER	CONFLICT	UNP E1C9L3
K	88	ALA	VAL	CONFLICT	UNP E1C9L3
K	111	THR	VAL	CONFLICT	UNP E1C9L3

- Molecule 12 is a protein called Photosystem I reaction center subunit XI, chloroplastic.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	L	163	1214	800	195	218	1	0	0	0

- Molecule 13 is a protein called Photosystem I-N subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	N	85	684	438	114	128	4	0	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
N	86	SER	GLY	CONFLICT	UNP E1C9K7
N	88	PHE	ILE	CONFLICT	UNP E1C9K7
N	89	ASP	GLU	CONFLICT	UNP E1C9K7
N	90	ALA	GLU	CONFLICT	UNP E1C9K7
N	97	ALA	THR	CONFLICT	UNP E1C9K7
N	110	SER	THR	CONFLICT	UNP E1C9K7
N	121	GLN	GLU	CONFLICT	UNP E1C9K7
N	124	THR	SER	CONFLICT	UNP E1C9K7

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Chain	Residue	Modelled	Actual	Comment	Reference
N	146	ILE	LEU	CONFLICT	UNP E1C9K7
N	148	GLU	ASP	CONFLICT	UNP E1C9K7
N	151	GLU	ASP	CONFLICT	UNP E1C9K7
N	160	PHE	TYR	CONFLICT	UNP E1C9K7

- Molecule 14 is a protein called Chlorophyll a-b binding protein 6A, chloroplastic.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
14	1	171	1271	823	218	226	4	0	0	0

- Molecule 15 is a protein called Type II chlorophyll a/b binding protein from photosystem I.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
15	2	146	1116	726	189	198	3	0	0	0

- Molecule 16 is a protein called Chlorophyll a-b binding protein 3, chloroplastic.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
16	3	151	1118	730	184	199	5	0	0	0

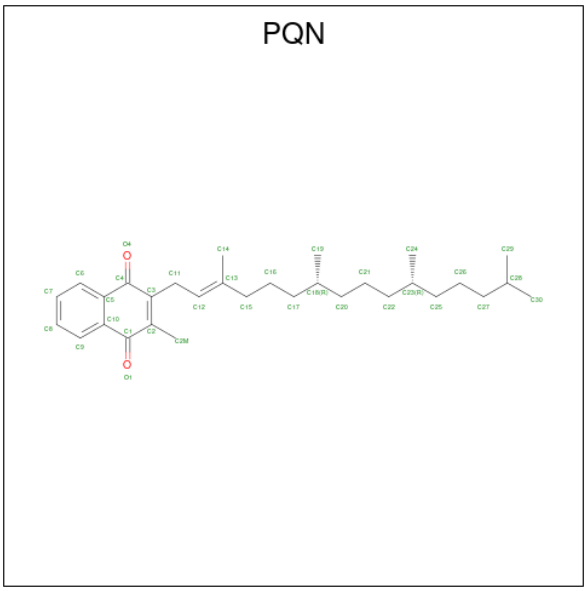
- Molecule 17 is a protein called Chlorophyll a-b binding protein P4, chloroplastic.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
17	4	196	1439	934	242	260	3	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

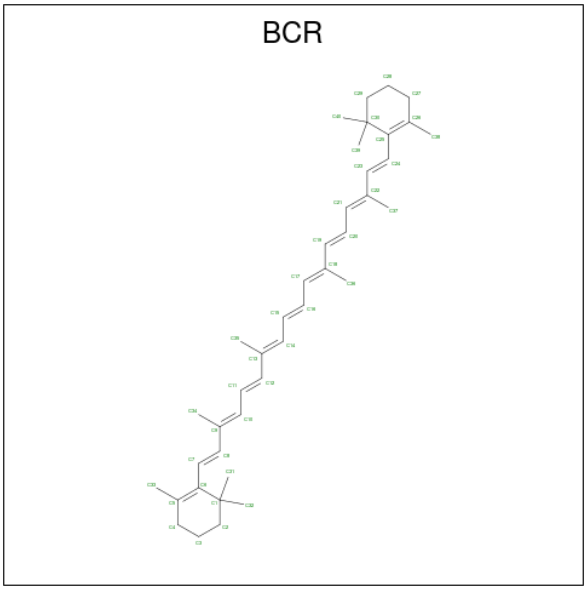
Chain	Residue	Modelled	Actual	Comment	Reference
4	129	ASP	ALA	CONFLICT	UNP Q9SQL2
4	151	PHE	SER	CONFLICT	UNP Q9SQL2

- Molecule 18 is PHYLLOQUINONE (three-letter code: PQN) (formula: $C_{31}H_{46}O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
18	A	1	33	31	2	0	0
			Total	C	O		
18	B	1	33	31	2	0	0

- Molecule 19 is BETA-CAROTENE (three-letter code: BCR) (formula: $C_{40}H_{56}$).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	C		
19	A	1	40	40	0	0
			Total	C		
19	A	1	40	40	0	0

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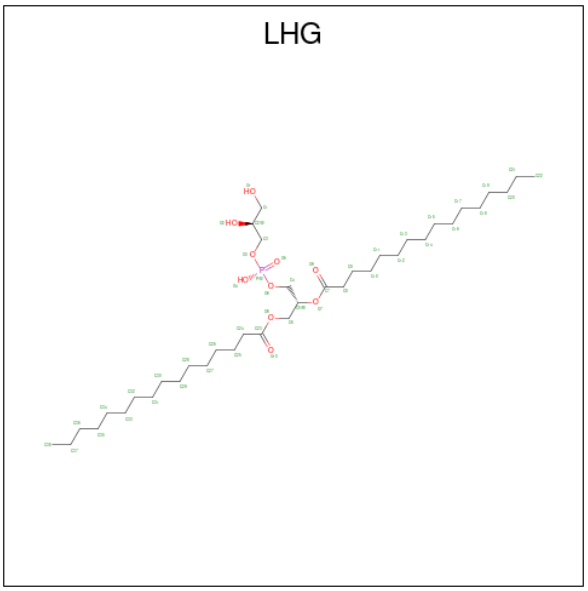
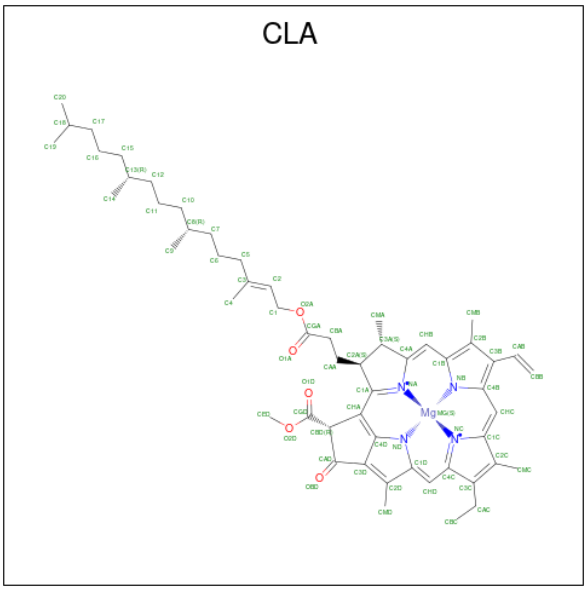
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	C		
19	A	1	40	40	0	0
			Total	C		
19	A	1	40	40	0	0
			Total	C		
19	A	1	40	40	0	0
			Total	C		
19	A	1	40	40	0	0
			Total	C		
19	B	1	40	40	0	0
			Total	C		
19	B	1	40	40	0	0
			Total	C		
19	B	1	40	40	0	0
			Total	C		
19	B	1	40	40	0	0
			Total	C		
19	B	1	40	40	0	0
			Total	C		
19	B	1	25	25	0	0
			Total	C		
19	F	1	40	40	0	0
			Total	C		
19	F	1	40	40	0	0
			Total	C		
19	G	1	40	40	0	0
			Total	C		
19	I	1	40	40	0	0
			Total	C		
19	I	1	40	40	0	0
			Total	C		
19	J	1	40	40	0	0
			Total	C		
19	J	1	40	40	0	0
			Total	C		
19	L	1	40	40	0	0
			Total	C		
19	L	1	40	40	0	0

- Molecule 20 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	O	P		
20	A	1	49	38	10	1	0	0
			Total	C	O	P		
20	A	1	49	38	10	1	0	0
			Total	C	O	P		
20	B	1	49	38	10	1	0	0
			Total	C	O	P		
20	1	1	49	38	10	1	0	0
			Total	C	O	P		
20	2	1	36	25	10	1	0	0

- Molecule 21 is CHLOROPHYLL A (three-letter code: CLA) (formula: $C_{55}H_{72}MgN_4O_5$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	50	40	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	51	41	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	51	41	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	60	50	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	56	46	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	54	44	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	59	49	1	4	5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	50	40	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	51	41	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	51	41	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	44	34	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	46	36	1	4	5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	A	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	60	50	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	60	50	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	59	49	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	60	50	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	60	50	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	60	50	1	4	5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	54	44	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	51	41	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	58	48	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	60	50	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	60	50	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
21	B	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	F	1	45	35	1	4	5	0	0
			Total	C	Mg	N	O		
21	F	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	F	1	64	55	1	4	4	0	0
			Total	C	Mg	N	O		
21	G	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	G	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	H	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	J	1	61	51	1	4	5	0	0
			Total	C	Mg	N	O		
21	J	1	61	51	1	4	5	0	0
			Total	C	Mg	N	O		
21	J	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	L	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	L	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	L	1	50	40	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	56	46	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	56	46	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	47	37	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	65	55	1	4	5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
21	1	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	50	40	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	1	1	45	35	1	4	5	0	0
			Total	C	Mg	N			
21	2	1	27	22	1	4		0	0
			Total	C	Mg	N	O		
21	2	1	60	50	1	4	5	0	0
			Total	C	Mg	N	O		
21	2	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	2	1	59	50	1	4	4	0	0
			Total	C	Mg	N	O		
21	2	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	2	1	57	47	1	4	5	0	0
			Total	C	Mg	N	O		
21	2	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	2	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	2	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	2	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	2	1	60	50	1	4	5	0	0
			Total	C	Mg	N	O		
21	2	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	2	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	2	1	45	35	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	65	55	1	4	5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
21	3	1	55	45	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	60	50	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	45	35	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	45	35	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	52	42	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	46	36	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	45	35	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	50	40	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	45	35	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	45	35	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	45	35	1	4	5	0	0
			Total	C	Mg	N	O		
21	3	1	45	35	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	56	46	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	45	35	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	65	55	1	4	5	0	0

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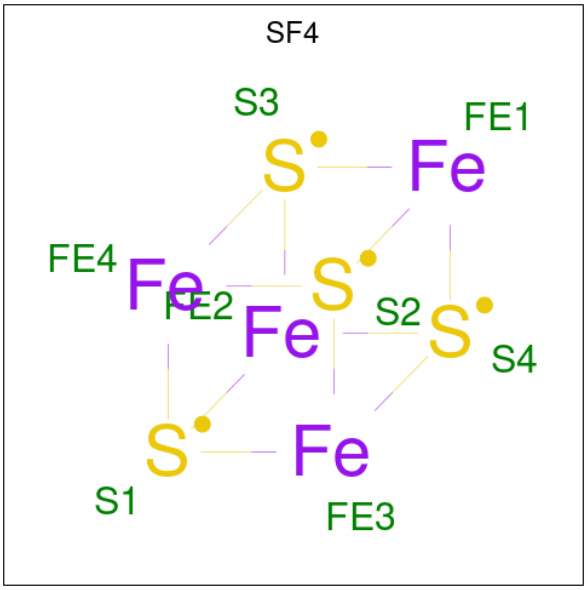
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
21	4	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	48	38	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	50	40	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	50	40	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	65	55	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	51	41	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	45	35	1	4	5	0	0
			Total	C	Mg	N	O		
21	4	1	46	36	1	4	5	0	0

- Molecule 22 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	Fe	S		
22	A	1	8	4	4	0	0
			Total	Fe	S		
22	C	1	8	4	4	0	0

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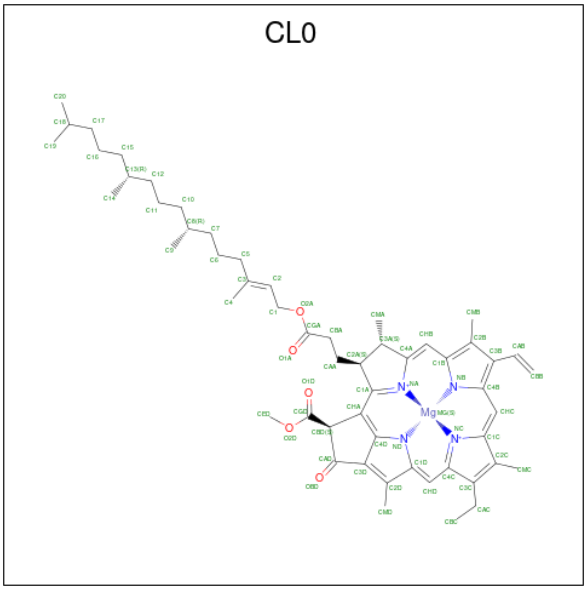
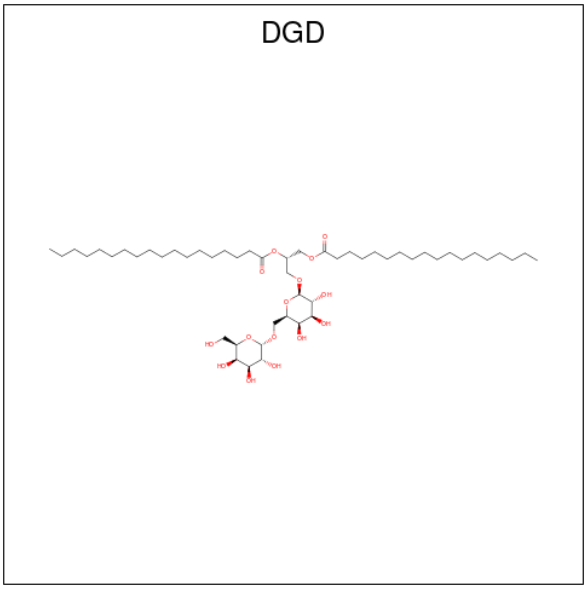
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	Fe	S		
22	C	1	8	4	4	0	0

- Molecule 23 is CHLOROPHYLL A ISOMER (three-letter code: CL0) (formula: $C_{55}H_{72}MgN_4O_5$).



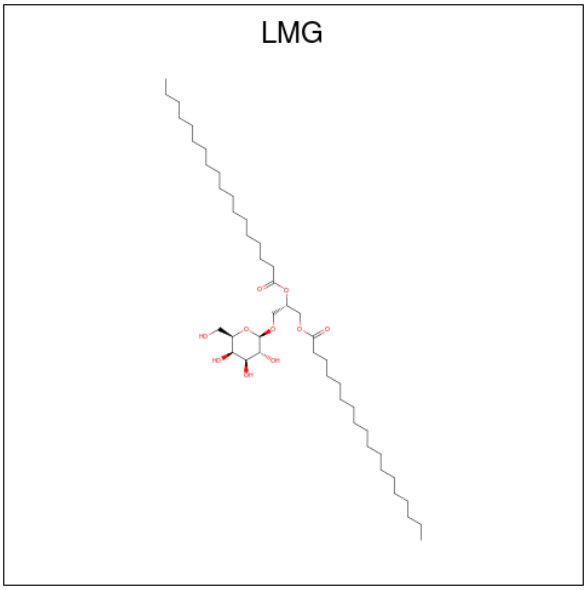
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
23	A	1	65	55	1	4	5	0	0

- Molecule 24 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: $C_{51}H_{96}O_{15}$).



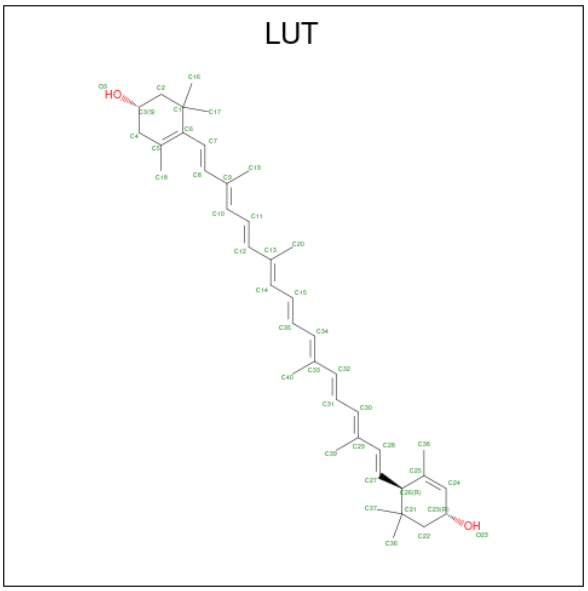
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
24	B	1	61	46	15	0	0

- Molecule 25 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$).



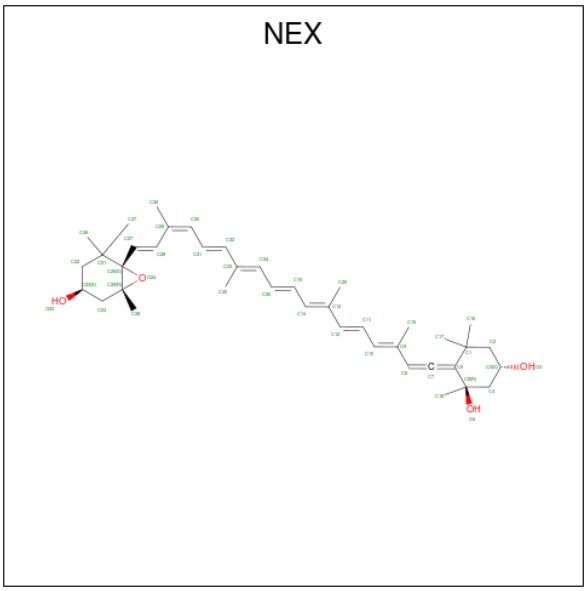
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
25	G	1	23	13	10	0	0
25	J	1	35	25	10	0	0

- Molecule 26 is (3R,3'R,6S)-4,5-DIDEHYDRO-5,6-DIHYDRO-BETA,BETA-CAROTENE-3,3'-DIOL (three-letter code: LUT) (formula: $C_{40}H_{56}O_2$).



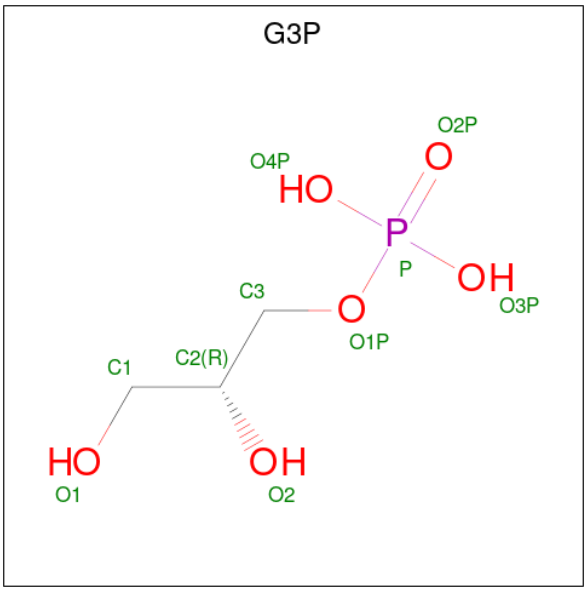
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
26	1	1	42	40	2	0	0
			Total	C	O		
26	1	1	42	40	2	0	0
			Total	C	O		
26	2	1	42	40	2	0	0
			Total	C	O		
26	2	1	42	40	2	0	0
			Total	C	O		
26	4	1	42	40	2	0	0
			Total	C	O		
26	4	1	42	40	2	0	0

- Molecule 27 is (1R,3R)-6-{(3E,5E,7E,9E,11E,13E,15E,17E)-18-[(1S,4R,6R)-4-HYDROXY-2,2,6-TRIMETHYL-7-OXABICYCLO[4.1.0]HEPT-1-YL]-3,7,12,16-TETRAMETHYLOCTADECA-1,3,5,7,9,11,13,15,17-NONAENYLIDENE}-1,5,5-TRIMETHYLCYCLOHEXANE-1,3-DIOL (three-letter code: NEX) (formula: $C_{40}H_{56}O_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
27	4	1	44	40	4	0	0

- Molecule 28 is SN-GLYCEROL-3-PHOSPHATE (three-letter code: G3P) (formula: $C_3H_9O_6P$).



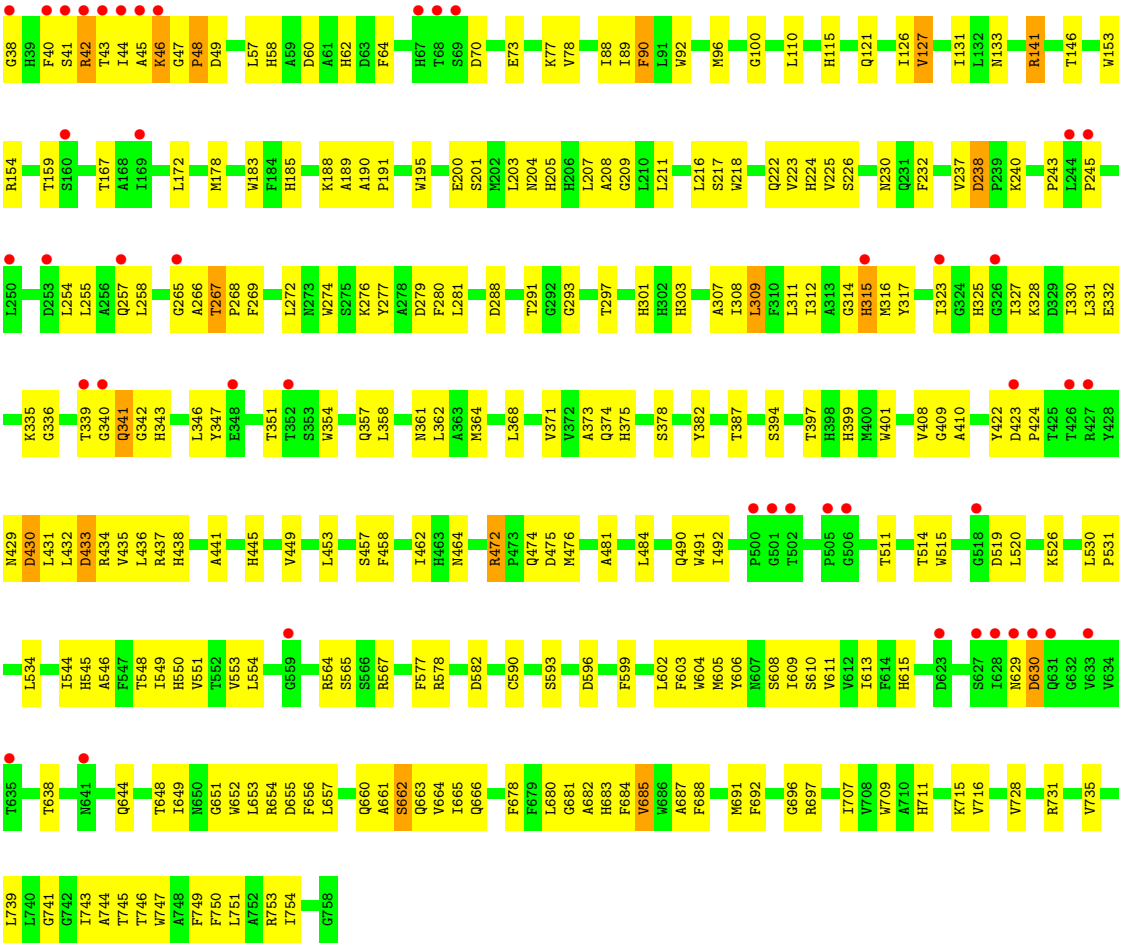
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	O	P		
28	4	1	10	3	6	1	0	0

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.

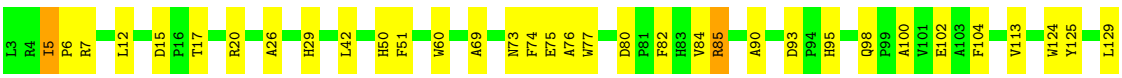
• Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1

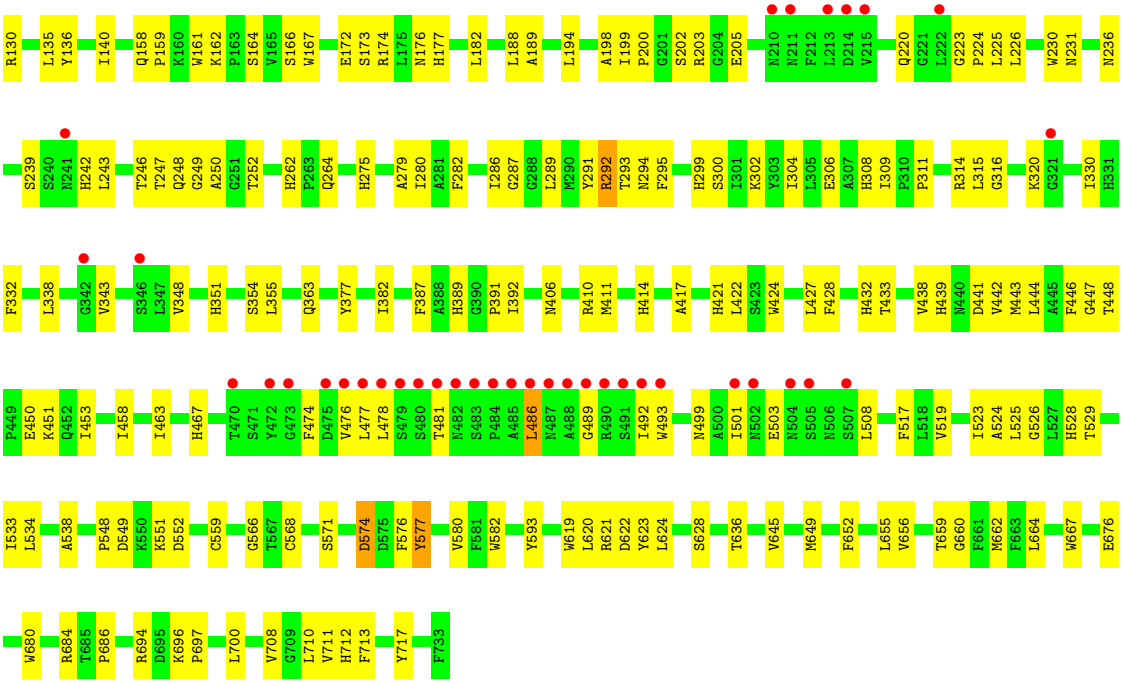
Chain A: 6% 64% 34%



• Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

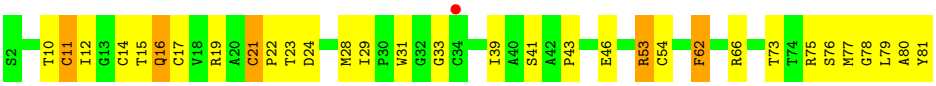
Chain B: 5% 71% 29%





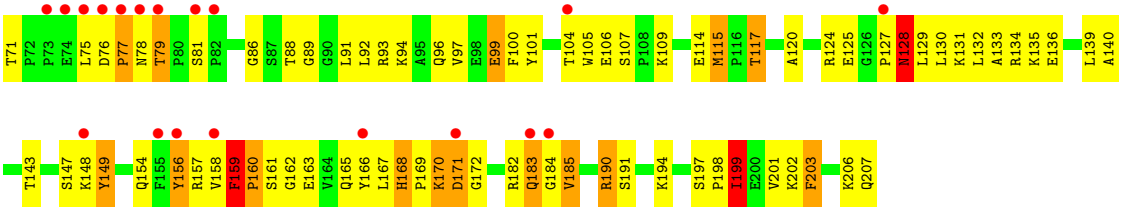
- Molecule 3: Photosystem I iron-sulfur center

Chain C:



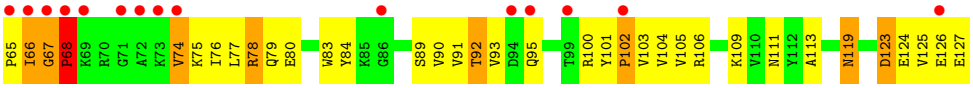
- Molecule 4: Photosystem I reaction center subunit II, chloroplastic

Chain D:



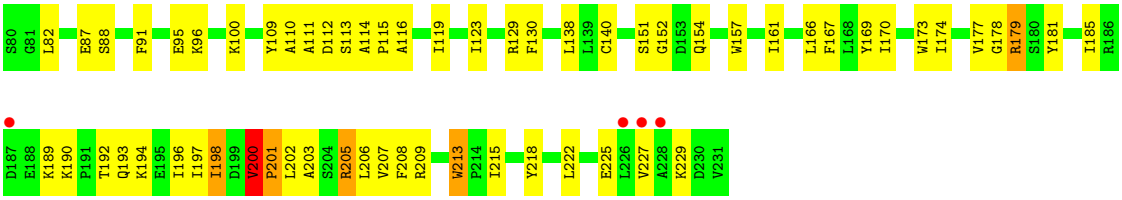
- Molecule 5: Photosystem I reaction center subunit IV B, chloroplastic

Chain E:



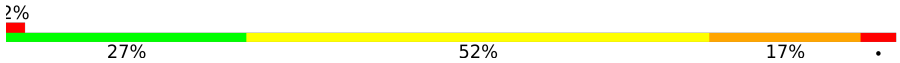
- Molecule 6: Photosystem I reaction center subunit III, chloroplastic

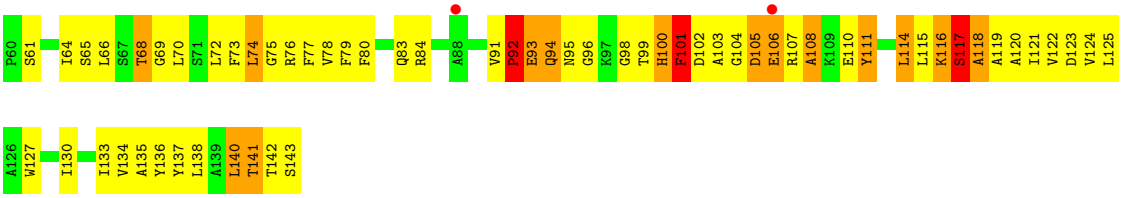
Chain F:



- Molecule 7: Photosystem I reaction center subunit V, chloroplastic

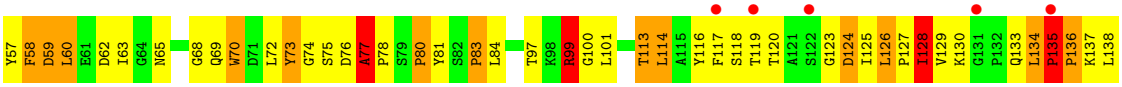
Chain G:





- Molecule 8: Photosystem I reaction center subunit VI, chloroplastic

Chain H:



- Molecule 9: Photosystem I reaction center subunit VIII

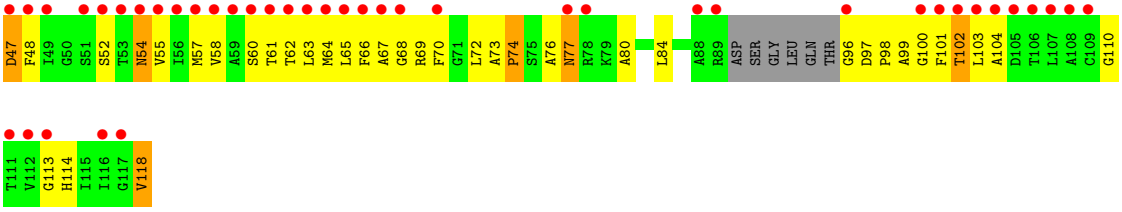
Chain I:

- Molecule 10: Photosystem I reaction center subunit IX

Chain J:

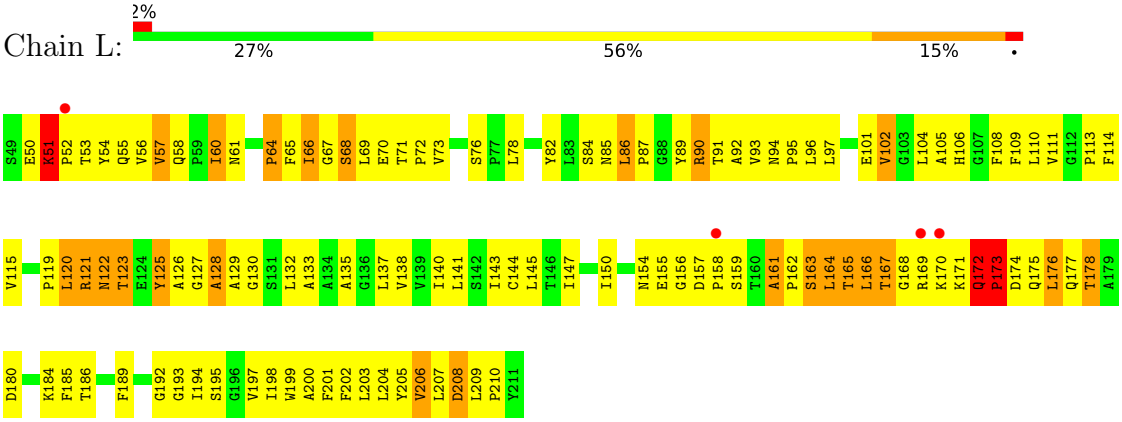
- Molecule 11: Photosystem I reaction center subunit X psaK

Chain K:



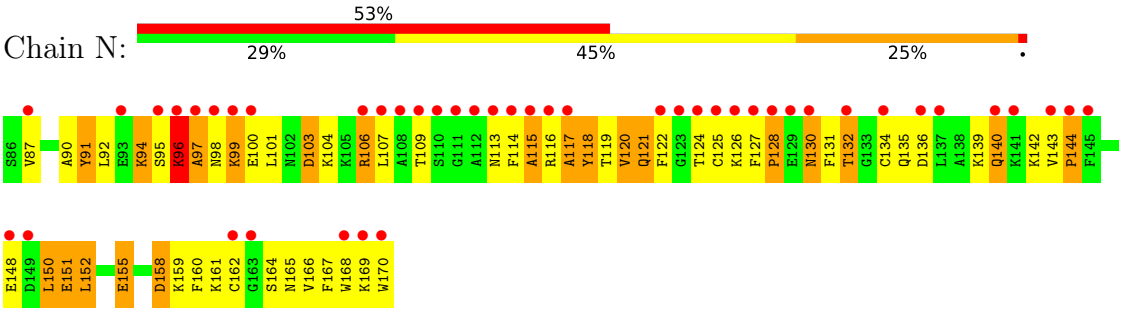
• Molecule 12: Photosystem I reaction center subunit XI, chloroplastic

Chain L:



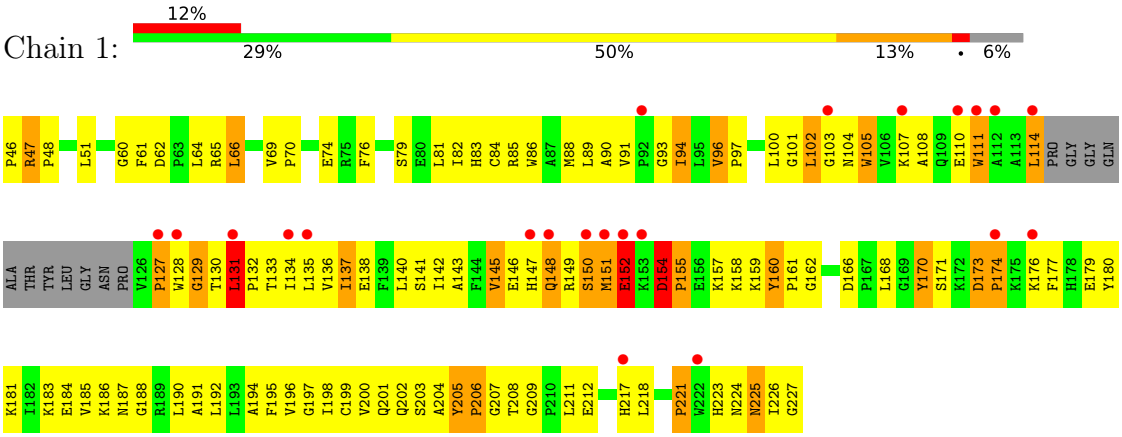
• Molecule 13: Photosystem I-N subunit

Chain N:



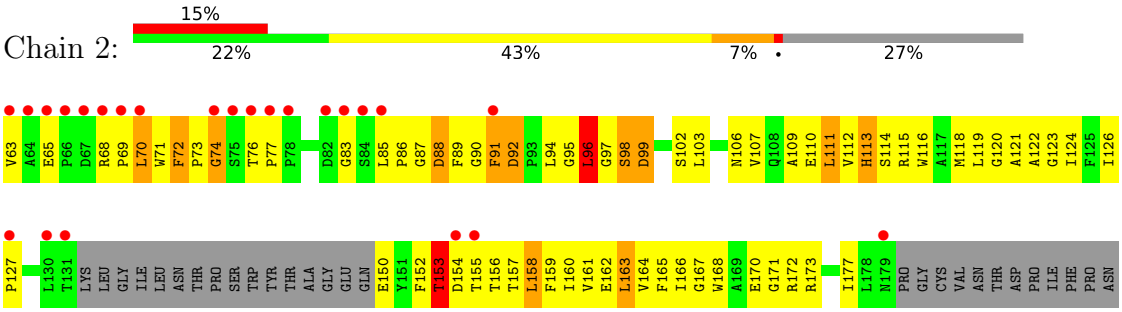
• Molecule 14: Chlorophyll a-b binding protein 6A, chloroplastic

Chain 1:



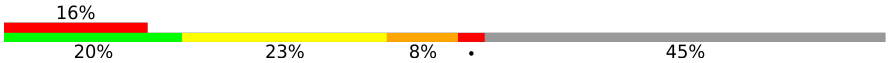
• Molecule 15: Type II chlorophyll a/b binding protein from photosystem I

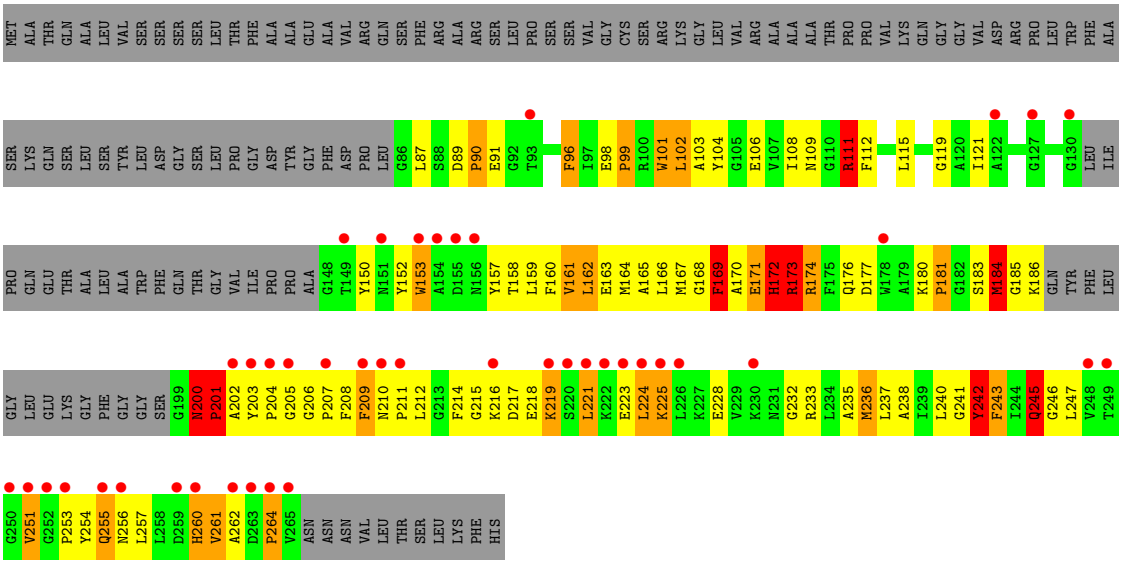
Chain 2:



• Molecule 16: Chlorophyll a-b binding protein 3, chloroplastic

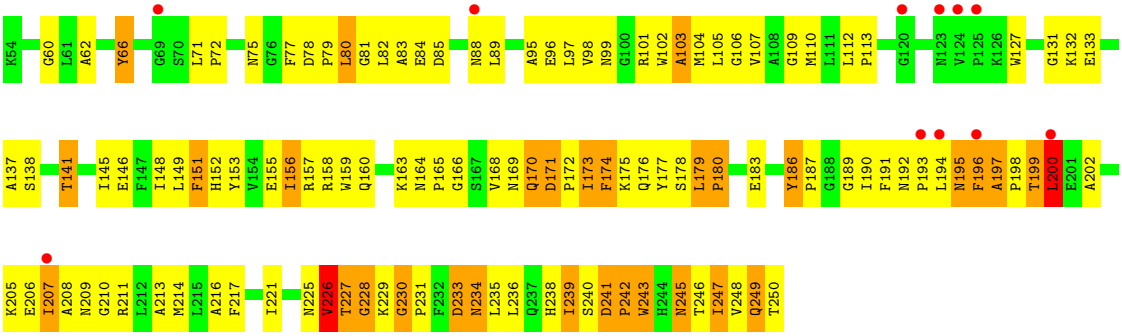
Chain 3:





• Molecule 17: Chlorophyll a-b binding protein P4, chloroplastic

Chain 4:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	120.63Å 189.17Å 129.67Å 90.00° 91.11° 90.00°	Depositor
Resolution (Å)	39.69 – 3.00 48.59 – 3.00	Depositor EDS
% Data completeness (in resolution range)	99.9 (39.69-3.00) 91.2 (48.59-3.00)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.27 (at 3.01Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.9_1690)	Depositor
R, R_{free}	0.258 , 0.293 0.262 , 0.294	Depositor DCC
R_{free} test set	5775 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å^2)	64.4	Xtriage
Anisotropy	0.615	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.25 , 77.4	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.31$	Xtriage
Estimated twinning fraction	0.029 for h,-k,-l	Xtriage
F_o,F_c correlation	0.87	EDS
Total number of atoms	34540	wwPDB-VP
Average B, all atoms (Å^2)	96.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.87% of the height of the origin peak. No significant pseudotranslation is detected.*

[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ 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: PQN, LHG, NEX, CL0, DGD, G3P, LUT, BCR, SF4, LMG, CLA

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	0.49	0/5867	0.48	2/8006 (0.0%)
2	B	0.39	0/6045	0.44	0/8259
3	C	0.32	0/625	0.49	1/846 (0.1%)
4	D	0.64	0/1097	0.84	3/1483 (0.2%)
5	E	0.62	0/518	0.75	2/704 (0.3%)
6	F	0.56	0/1223	0.61	2/1652 (0.1%)
7	G	0.77	0/653	0.93	2/885 (0.2%)
8	H	0.64	0/648	0.98	7/883 (0.8%)
9	I	0.26	0/203	0.62	0/276
10	J	0.60	0/325	0.66	1/445 (0.2%)
11	K	0.30	0/464	0.64	0/627
12	L	0.89	0/1250	0.97	6/1711 (0.4%)
13	N	0.37	0/699	0.77	1/935 (0.1%)
14	1	0.92	3/1308 (0.2%)	1.01	4/1783 (0.2%)
15	2	0.68	0/1153	0.77	1/1577 (0.1%)
16	3	0.54	0/1150	0.78	1/1562 (0.1%)
17	4	0.80	0/1483	0.82	2/2031 (0.1%)
All	All	0.58	3/24711 (0.0%)	0.67	35/33665 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	B	0	1
5	E	0	1
8	H	0	1
11	K	0	1
13	N	0	2
16	3	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
All	All	0	7

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	1	152	GLU	C-N	8.00	1.52	1.34
14	1	151	MET	C-N	-5.52	1.21	1.34
14	1	150	SER	C-N	5.16	1.46	1.34

All (35) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	E	67	GLY	N-CA-C	7.16	131.00	113.10
6	F	200	VAL	N-CA-C	-6.80	92.64	111.00
8	H	135	PRO	C-N-CD	6.56	142.17	128.40
8	H	134	LEU	CA-CB-CG	-6.49	100.37	115.30
8	H	136	PRO	CA-N-CD	-6.49	102.41	111.50
7	G	92	PRO	CA-N-CD	-6.36	102.60	111.50
7	G	101	PHE	N-CA-C	-6.35	93.86	111.00
14	1	160	TYR	C-N-CD	6.10	141.21	128.40
12	L	121	ARG	N-CA-C	6.04	127.30	111.00
12	L	157	ASP	N-CA-C	-5.92	95.00	111.00
4	D	76	ASP	C-N-CD	5.70	140.37	128.40
14	1	154	ASP	O-C-N	5.65	131.84	121.10
8	H	135	PRO	CA-N-CD	-5.64	103.61	111.50
5	E	67	GLY	C-N-CD	5.57	140.09	128.40
14	1	131	LEU	C-N-CD	5.50	139.95	128.40
12	L	166	LEU	N-CA-C	-5.39	96.44	111.00
14	1	96	VAL	C-N-CD	5.32	139.56	128.40
16	3	201	PRO	CA-N-CD	-5.30	104.08	111.50
13	N	152	LEU	CA-CB-CG	5.29	127.46	115.30
4	D	159	PHE	C-N-CD	5.27	139.46	128.40
12	L	161	ALA	C-N-CD	5.27	139.46	128.40
1	A	47	GLY	C-N-CD	5.22	139.37	128.40
8	H	80	PRO	CA-N-CD	-5.22	104.19	111.50
4	D	71	THR	C-N-CD	5.22	139.35	128.40
8	H	80	PRO	N-CA-C	5.21	125.65	112.10
6	F	200	VAL	C-N-CD	5.20	139.32	128.40
15	2	85	LEU	C-N-CD	5.20	139.32	128.40
3	C	21	CYS	C-N-CD	5.16	139.23	128.40
12	L	173	PRO	CA-N-CD	-5.13	104.32	111.50
10	J	11	ALA	C-N-CD	5.13	139.16	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	4	233	ASP	N-CA-C	-5.12	97.17	111.00
1	A	423	ASP	C-N-CD	5.08	139.06	128.40
8	H	77	ALA	C-N-CD	5.06	139.02	128.40
17	4	197	ALA	C-N-CD	5.02	138.94	128.40
12	L	51	LYS	C-N-CD	5.01	138.93	128.40

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
16	3	111	ARG	Sidechain
2	B	684	ARG	Sidechain
5	E	100	ARG	Sidechain
8	H	128	ILE	Peptide
11	K	97	ASP	Peptide
13	N	143	VAL	Peptide
13	N	144	PRO	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5675	0	5527	290	0
2	B	5834	0	5615	225	0
3	C	612	0	598	35	0
4	D	1070	0	1073	108	0
5	E	507	0	501	33	0
6	F	1196	0	1228	60	0
7	G	639	0	631	205	0
8	H	628	0	616	58	0
9	I	197	0	213	16	0
10	J	316	0	326	32	0
11	K	459	0	465	31	0
12	L	1214	0	1212	226	0
13	N	684	0	670	72	0
14	1	1271	0	1204	302	0
15	2	1116	0	1036	234	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	3	1118	0	1046	228	0
17	4	1439	0	1303	323	0
18	A	33	0	46	4	0
18	B	33	0	46	6	0
19	A	240	0	292	30	0
19	B	225	0	269	25	0
19	F	80	0	98	14	0
19	G	40	0	48	14	0
19	I	80	0	97	13	0
19	J	80	0	96	7	0
19	L	80	0	98	35	0
20	1	49	0	74	41	0
20	2	36	0	42	23	0
20	A	98	0	148	26	0
20	B	49	0	74	16	0
21	1	819	0	811	499	0
21	2	799	0	780	321	0
21	3	819	0	703	186	0
21	4	846	0	808	385	0
21	A	2538	0	2415	267	0
21	B	2467	0	2510	279	0
21	F	155	0	138	27	0
21	G	101	0	82	60	0
21	H	46	0	33	5	0
21	J	177	0	171	15	0
21	L	161	0	144	51	0
22	A	8	0	0	0	0
22	C	16	0	0	0	0
23	A	65	0	72	15	0
24	B	61	0	83	4	0
25	G	23	0	16	12	0
25	J	35	0	40	3	0
26	1	84	0	110	112	0
26	2	84	0	110	89	0
26	4	84	0	110	95	0
27	4	44	0	54	43	0
28	4	10	0	7	0	0
All	All	34540	0	33889	3868	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 57.

All (3868) 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)
1:A:43:THR:CB	1:A:46:LYS:HE3	1.47	1.45
1:A:43:THR:HB	1:A:46:LYS:CE	1.61	1.29
21:4:4011:CLA:HBB1	21:4:4011:CLA:HMB1	1.19	1.19
1:A:43:THR:CA	1:A:46:LYS:HE3	1.74	1.17
17:4:199:THR:HA	17:4:200:LEU:HD22	1.25	1.17
10:J:2:ARG:HA	21:J:6015:CLA:HAB	1.23	1.16
21:2:2003:CLA:H71	21:2:2003:CLA:H41	1.17	1.16
14:1:47:ARG:NH2	14:1:51:LEU:O	1.79	1.15
1:A:38:GLY:HA3	1:A:44:ILE:HG22	1.21	1.15
21:3:3012:CLA:H2A	21:3:3012:CLA:HED3	1.25	1.15
21:2:2002:CLA:HMB2	26:2:2501:LUT:H11	1.17	1.14
21:2:2002:CLA:HHB	26:2:2501:LUT:H202	1.24	1.14
21:G:1002:CLA:HBD	21:G:1002:CLA:HBA2	1.22	1.13
14:1:102:LEU:HG	21:1:1006:CLA:CED	1.77	1.13
21:B:1213:CLA:HBD	21:B:1213:CLA:HBA1	1.23	1.12
21:1:1009:CLA:H2	21:4:4005:CLA:HMD2	1.15	1.12
21:2:2003:CLA:H143	21:2:2003:CLA:H72	1.30	1.12
21:3:3013:CLA:HHC	21:3:3013:CLA:HBB1	1.21	1.12
1:A:43:THR:O	1:A:46:LYS:HG3	1.47	1.12
14:1:111:TRP:HE1	21:1:1013:CLA:HBA1	1.11	1.11
15:2:226:LYS:CB	21:2:2007:CLA:HED3	1.81	1.11
21:1:1005:CLA:HHC	21:1:1005:CLA:HBB1	1.32	1.11
21:4:4004:CLA:HBC2	21:4:4009:CLA:HBB2	1.32	1.11
14:1:168:LEU:HB2	14:1:170:TYR:HE1	1.12	1.11
20:A:7001:LHG:H252	21:A:1128:CLA:H42	1.29	1.11
7:G:73:PHE:CD1	7:G:77:PHE:HD2	1.69	1.11
21:4:4004:CLA:H41	21:4:4004:CLA:H72	1.31	1.11
21:A:1125:CLA:HBB1	21:A:1133:CLA:HMA2	1.31	1.10
21:1:1004:CLA:HBB1	21:1:1004:CLA:HMB1	1.27	1.10
21:1:1007:CLA:H71	21:1:1007:CLA:H41	1.21	1.10
21:1:1011:CLA:H111	21:1:1011:CLA:H62	1.18	1.10
15:2:155:THR:HA	15:2:158:LEU:HD11	1.28	1.10
26:1:1502:LUT:H173	21:1:1004:CLA:H62	1.28	1.09
12:L:204:LEU:HA	12:L:207:LEU:HG	1.26	1.09
21:L:1503:CLA:HBB1	21:L:1503:CLA:HHC	1.34	1.08
21:4:4004:CLA:H42	26:4:4502:LUT:H162	1.09	1.08
15:2:68:ARG:NH2	15:2:88:ASP:OD1	1.85	1.08
20:2:2801:LHG:H131	20:2:2801:LHG:HC81	1.08	1.08
12:L:201:PHE:CE1	12:L:205:TYR:HD2	1.70	1.08
21:3:3009:CLA:HBB1	21:3:3009:CLA:HHC	1.25	1.08
8:H:135:PRO:HD2	8:H:136:PRO:HD2	1.30	1.08
7:G:93:GLU:O	7:G:94:GLN:NE2	1.87	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:L:1501:CLA:HHC	21:L:1501:CLA:HBB1	1.34	1.07
21:4:4005:CLA:HED2	21:4:4005:CLA:H2A	1.35	1.07
12:L:104:LEU:HD22	21:L:1501:CLA:HMA2	1.09	1.07
21:2:2005:CLA:HBB1	21:2:2012:CLA:H171	1.37	1.07
21:4:4004:CLA:HBB1	21:4:4004:CLA:HMB1	1.23	1.07
12:L:171:LYS:O	12:L:172:GLN:NE2	1.88	1.07
15:2:173:ARG:NH2	21:2:2012:CLA:O1D	1.87	1.07
21:2:2013:CLA:HBC2	21:2:2013:CLA:HMC1	1.29	1.07
17:4:158:ARG:NH2	21:4:4012:CLA:O1D	1.87	1.07
21:3:3009:CLA:HBD	21:3:3009:CLA:HBA2	1.30	1.06
21:2:2008:CLA:HHD	21:2:2008:CLA:HBC3	1.37	1.06
17:4:101:ARG:NH1	21:4:4011:CLA:OBD	1.87	1.06
7:G:84:ARG:NH2	7:G:123:ASP:OD2	1.87	1.06
15:2:73:PRO:O	16:3:176:GLN:NE2	1.87	1.06
15:2:259:HIS:HB3	21:2:2003:CLA:HBC3	1.38	1.06
21:A:1129:CLA:HHC	21:A:1129:CLA:HBB1	1.33	1.06
21:1:1013:CLA:HBC2	21:1:1013:CLA:HHD	1.35	1.06
15:2:110:GLU:OE2	15:2:232:ARG:NH1	1.88	1.05
26:1:1502:LUT:H392	21:1:1010:CLA:HMA2	1.10	1.05
4:D:134:ARG:NH2	4:D:136:GLU:OE2	1.88	1.05
21:1:1005:CLA:H52	21:1:1005:CLA:H92	1.34	1.05
1:A:358:LEU:HD11	21:A:1128:CLA:HBB1	1.37	1.05
4:D:199:ILE:HD13	4:D:201:VAL:HG22	1.38	1.05
7:G:93:GLU:HB3	7:G:99:THR:HB	1.35	1.05
21:4:4001:CLA:H2	26:4:4501:LUT:H373	1.11	1.05
21:4:4014:CLA:HHC	21:4:4014:CLA:HBB1	1.38	1.05
3:C:24:ASP:OD2	4:D:168:HIS:ND1	1.89	1.04
7:G:105:ASP:HA	7:G:106:GLU:HB3	1.33	1.04
21:G:1002:CLA:HBC2	21:G:1002:CLA:HHD	1.37	1.04
21:B:1228:CLA:HBC3	21:B:1228:CLA:HHD	1.36	1.04
16:3:157:TYR:CD1	21:3:3010:CLA:HBC1	1.92	1.04
26:4:4501:LUT:H181	26:4:4501:LUT:H8	1.37	1.04
15:2:235:MET:HE3	21:2:2004:CLA:HMC3	1.36	1.04
21:3:3011:CLA:HHD	21:3:3011:CLA:HBC2	1.33	1.04
17:4:169:ASN:HD22	27:4:4503:NEX:H173	1.20	1.04
12:L:145:LEU:HD21	19:L:6019:BCR:H392	1.07	1.03
14:1:107:LYS:NZ	14:1:110:GLU:OE1	1.89	1.03
21:1:1013:CLA:HBB1	21:1:1013:CLA:HHC	1.38	1.03
21:4:4012:CLA:HBB1	21:4:4012:CLA:HHC	1.39	1.03
12:L:120:LEU:HD12	12:L:126:ALA:HB2	1.37	1.03
7:G:99:THR:O	7:G:101:PHE:N	1.91	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:4:4012:CLA:H152	21:4:4012:CLA:H192	1.40	1.03
13:N:161:LYS:HG3	13:N:167:PHE:CD2	1.92	1.03
14:1:46:PRO:HD3	21:4:4005:CLA:HBA1	1.35	1.03
21:2:2009:CLA:CBB	20:2:2801:LHG:HC82	1.89	1.03
16:3:108:ILE:HG12	21:3:3011:CLA:HBB2	1.07	1.03
17:4:227:THR:O	17:4:229:LYS:N	1.91	1.03
21:4:4001:CLA:HBB1	21:4:4001:CLA:HMB1	1.37	1.03
21:3:3012:CLA:HHD	21:3:3012:CLA:HBC2	1.39	1.03
23:A:9011:CL0:H15	23:A:9011:CL0:H2	1.41	1.02
21:2:2002:CLA:H3A	26:2:2501:LUT:H201	1.41	1.02
21:2:2013:CLA:HBB1	26:2:2502:LUT:H382	1.41	1.02
21:4:4001:CLA:H41	21:4:4002:CLA:HBA1	1.40	1.02
12:L:64:PRO:HG2	12:L:65:PHE:CE1	1.93	1.02
26:1:1501:LUT:H35	21:1:1002:CLA:CAD	1.88	1.02
21:4:4001:CLA:H62	26:4:4501:LUT:C37	1.89	1.02
1:A:43:THR:O	1:A:46:LYS:CG	2.05	1.02
14:1:186:LYS:HZ3	21:1:1007:CLA:HED1	1.25	1.02
21:2:2002:CLA:HBC2	21:2:2002:CLA:HMC1	1.39	1.02
21:1:1010:CLA:HBC2	21:1:1010:CLA:HHD	1.38	1.02
21:A:1129:CLA:HBB2	21:A:1137:CLA:CBB	1.90	1.02
4:D:171:ASP:OD2	4:D:182:ARG:NE	1.93	1.02
14:1:46:PRO:CD	21:4:4005:CLA:HBA1	1.90	1.02
14:1:66:LEU:CD2	21:1:1004:CLA:H42	1.90	1.02
7:G:116:LYS:HA	21:G:1002:CLA:HMA3	1.41	1.01
12:L:193:GLY:O	12:L:197:VAL:HG23	1.60	1.01
14:1:194:ALA:CB	26:1:1501:LUT:H193	1.90	1.01
17:4:77:PHE:CE2	26:4:4502:LUT:H173	1.95	1.01
21:4:4014:CLA:HBC2	21:4:4014:CLA:HMC1	1.40	1.01
1:A:648:THR:HG23	1:A:651:GLY:H	1.22	1.01
21:B:9010:CLA:HBC3	21:B:9010:CLA:HHD	1.40	1.01
12:L:50:GLU:N	12:L:50:GLU:OE2	1.93	1.01
12:L:145:LEU:HD21	19:L:6019:BCR:C39	1.90	1.01
7:G:116:LYS:CA	21:G:1002:CLA:HMA3	1.90	1.01
10:J:2:ARG:HA	21:J:6015:CLA:CAB	1.90	1.01
1:A:665:ILE:HD12	2:B:621:ARG:HG3	1.40	1.01
14:1:160:TYR:HB3	21:1:1001:CLA:HED2	1.37	1.01
21:3:3010:CLA:HHD	21:3:3010:CLA:HBC2	1.40	1.01
21:1:1002:CLA:HED3	21:1:1002:CLA:C6	1.90	1.01
8:H:116:TYR:O	8:H:120:THR:HG23	1.60	1.00
14:1:146:GLU:OE1	14:1:149:ARG:NH1	1.94	1.00
21:3:3008:CLA:H2A	21:3:3008:CLA:CED	1.89	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1:1003:CLA:HBD	21:1:1003:CLA:HBA1	1.41	1.00
21:1:1008:CLA:HHC	21:1:1008:CLA:HBB1	1.38	1.00
15:2:166:ILE:HD11	21:2:2013:CLA:HMB3	1.40	1.00
21:4:4011:CLA:HBC2	21:4:4011:CLA:HHD	1.40	1.00
15:2:166:ILE:CD1	21:2:2013:CLA:HMB3	1.91	1.00
15:2:155:THR:HG22	15:2:156:THR:H	1.26	1.00
21:2:2005:CLA:CBB	21:2:2012:CLA:H171	1.90	1.00
21:2:2006:CLA:HMC2	26:2:2502:LUT:C22	1.92	1.00
14:1:94:ILE:HD13	26:1:1502:LUT:H382	1.42	1.00
12:L:104:LEU:CD2	21:L:1501:CLA:HMA2	1.92	1.00
21:2:2013:CLA:HBB1	21:2:2013:CLA:HHC	1.40	1.00
21:1:1002:CLA:H42	21:1:1007:CLA:C10	1.92	0.99
21:4:4007:CLA:HHD	21:4:4007:CLA:HBC2	1.44	0.99
1:A:38:GLY:HA3	1:A:44:ILE:CG2	1.92	0.99
16:3:200:ASN:H	16:3:201:PRO:HD2	1.27	0.99
21:1:1002:CLA:HAB	21:1:1007:CLA:HBD	1.40	0.99
20:1:1801:LHG:C20	20:1:1801:LHG:H383	1.93	0.99
17:4:169:ASN:HA	17:4:178:SER:HB2	1.41	0.99
14:1:102:LEU:HG	21:1:1006:CLA:HED2	1.41	0.99
14:1:142:ILE:HD11	21:1:1013:CLA:HMC2	1.43	0.99
2:B:173:SER:OG	21:B:1209:CLA:HED1	1.60	0.99
14:1:94:ILE:HG22	14:1:105:TRP:HB3	1.40	0.99
21:1:1009:CLA:C2	21:4:4005:CLA:HMD2	1.93	0.99
21:2:2008:CLA:HMD2	16:3:162:LEU:CD1	1.92	0.98
21:4:4006:CLA:CMC	26:4:4502:LUT:H222	1.92	0.98
1:A:433:ASP:OD2	1:A:437:ARG:NH1	1.95	0.98
8:H:58:PHE:CE1	8:H:60:LEU:HD11	1.98	0.98
21:4:4001:CLA:H41	21:4:4002:CLA:CGA	1.93	0.98
21:F:1303:CLA:HBA2	21:F:1303:CLA:CED	1.93	0.98
8:H:133:GLN:HB3	8:H:135:PRO:HB3	1.44	0.98
15:2:109:ALA:HA	21:2:2012:CLA:HED3	1.43	0.98
21:2:2009:CLA:HBC1	21:3:3009:CLA:CGA	1.92	0.98
17:4:246:THR:CG2	17:4:248:VAL:HG23	1.94	0.98
2:B:292:ARG:NH1	7:G:107:ARG:HH21	1.61	0.98
21:3:3013:CLA:HMC1	21:3:3013:CLA:HBC3	1.46	0.98
26:1:1502:LUT:H222	21:1:1006:CLA:HAB	1.46	0.98
21:1:1008:CLA:H152	21:1:1008:CLA:HMC2	1.44	0.97
21:1:1009:CLA:H52	21:4:4005:CLA:C3D	1.93	0.97
21:1:1009:CLA:H52	21:4:4005:CLA:C2D	1.94	0.97
21:2:2012:CLA:HBC2	21:2:2012:CLA:HHD	1.43	0.97
21:1:1009:CLA:H122	21:1:1009:CLA:H93	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2:113:HIS:ND1	21:2:2004:CLA:HBB2	1.78	0.97
2:B:292:ARG:CZ	7:G:107:ARG:HH21	1.77	0.97
14:1:194:ALA:HB1	26:1:1501:LUT:H193	1.42	0.97
21:4:4004:CLA:C4	26:4:4502:LUT:H162	1.94	0.97
15:2:259:HIS:HE2	21:2:2003:CLA:HMD2	1.29	0.97
21:4:4001:CLA:H41	21:4:4002:CLA:CBA	1.93	0.97
16:3:204:PRO:HG3	16:3:211:PRO:HD2	1.42	0.97
21:G:1002:CLA:HBA2	21:G:1002:CLA:CBD	1.95	0.96
1:A:43:THR:C	1:A:46:LYS:HG3	1.86	0.96
21:1:1013:CLA:H72	21:1:1014:CLA:HBB2	1.44	0.96
21:3:3009:CLA:C1A	21:3:3009:CLA:HED2	1.95	0.96
21:G:1001:CLA:H42	19:G:2011:BCR:H343	1.44	0.96
21:1:1002:CLA:HMC1	21:1:1002:CLA:HBC3	1.47	0.96
15:2:95:GLY:O	15:2:97:GLY:N	1.98	0.96
2:B:85:ARG:HH11	2:B:85:ARG:HG3	1.29	0.96
15:2:235:MET:CE	21:2:2004:CLA:HMC3	1.95	0.96
21:2:2003:CLA:H143	21:2:2003:CLA:C7	1.96	0.96
21:2:2013:CLA:CBB	26:2:2502:LUT:H382	1.94	0.96
20:2:2801:LHG:H131	20:2:2801:LHG:C8	1.95	0.96
2:B:292:ARG:NE	7:G:91:VAL:HG11	1.80	0.95
21:1:1008:CLA:H152	21:1:1008:CLA:CMC	1.95	0.95
21:4:4006:CLA:HMC2	26:4:4502:LUT:H222	1.48	0.95
8:H:72:LEU:HG	8:H:76:ASP:HB3	1.47	0.95
12:L:64:PRO:HG2	12:L:65:PHE:CD1	2.02	0.95
13:N:160:PHE:CE2	13:N:166:VAL:HG11	2.01	0.95
14:1:91:VAL:HG11	26:1:1501:LUT:C19	1.96	0.95
21:1:1010:CLA:HMB3	21:1:1013:CLA:HMB2	1.47	0.95
7:G:74:LEU:HA	7:G:78:VAL:HG12	1.49	0.95
21:1:1004:CLA:H92	21:1:1005:CLA:HMA1	1.44	0.95
16:3:160:PHE:CE1	16:3:164:MET:HG3	2.00	0.95
17:4:247:ILE:HD13	21:4:4003:CLA:HMD1	1.49	0.95
2:B:292:ARG:NH2	7:G:91:VAL:HG21	1.81	0.95
21:A:1131:CLA:H52	21:A:1131:CLA:H93	1.47	0.94
20:B:7004:LHG:H242	21:B:1227:CLA:H71	1.47	0.94
16:3:108:ILE:HA	16:3:111:ARG:HD2	1.48	0.94
21:3:3010:CLA:HBD	21:3:3010:CLA:HBA1	1.49	0.94
21:B:1213:CLA:H11	7:G:140:LEU:HD11	1.46	0.94
7:G:114:LEU:HD12	21:G:1002:CLA:HED2	1.48	0.94
16:3:108:ILE:HG12	21:3:3011:CLA:CBB	1.96	0.94
21:B:1213:CLA:ND	21:B:1213:CLA:H12	1.82	0.94
14:1:160:TYR:CB	21:1:1001:CLA:HED2	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2:2009:CLA:C1A	21:2:2009:CLA:HED2	1.98	0.94
1:A:342:GLY:HA2	1:A:431:LEU:HD21	1.48	0.94
12:L:121:ARG:N	12:L:122:ASN:HB2	1.83	0.94
12:L:201:PHE:CE1	12:L:205:TYR:CD2	2.55	0.94
21:3:3008:CLA:HBB1	21:3:3008:CLA:HHC	1.46	0.94
21:2:2005:CLA:HBC1	21:2:2012:CLA:HBC1	1.48	0.94
17:4:246:THR:HG23	21:4:4008:CLA:HED3	1.49	0.94
17:4:199:THR:HA	17:4:200:LEU:CD2	1.97	0.93
21:4:4004:CLA:H42	26:4:4502:LUT:C16	1.99	0.93
7:G:137:TYR:O	7:G:141:THR:OG1	1.85	0.93
20:2:2801:LHG:H122	20:2:2801:LHG:C23	1.98	0.93
17:4:192:ASN:OD1	26:4:4501:LUT:O23	1.85	0.93
7:G:73:PHE:CD1	7:G:77:PHE:CD2	2.55	0.93
21:A:1132:CLA:CBC	21:B:1206:CLA:HBB2	1.97	0.93
21:B:1239:CLA:HBC2	21:B:1239:CLA:HMC1	1.50	0.93
14:1:168:LEU:HB2	14:1:170:TYR:CE1	2.04	0.93
26:1:1502:LUT:H392	21:1:1010:CLA:CMA	1.98	0.93
21:2:2005:CLA:HMD2	21:2:2012:CLA:C1D	1.99	0.93
7:G:141:THR:CG2	25:G:2021:LMG:HC72	1.98	0.93
21:2:2010:CLA:H143	21:2:2010:CLA:H171	1.51	0.93
20:2:2801:LHG:O1	20:2:2801:LHG:O5	1.84	0.93
16:3:204:PRO:CB	16:3:209:PHE:HA	1.99	0.93
1:A:43:THR:HB	1:A:46:LYS:HE3	0.93	0.93
21:1:1011:CLA:H111	21:1:1011:CLA:C6	1.98	0.93
21:G:1001:CLA:HBC2	21:G:1001:CLA:HMC1	1.51	0.93
21:1:1004:CLA:C9	21:1:1005:CLA:HHB	1.99	0.93
26:1:1502:LUT:H203	21:1:1004:CLA:HAB	1.51	0.93
15:2:244:GLN:O	15:2:248:THR:OG1	1.85	0.93
17:4:246:THR:HG22	17:4:248:VAL:H	1.34	0.93
1:A:434:ARG:O	1:A:438:HIS:ND1	2.02	0.92
21:1:1014:CLA:HMC1	21:1:1014:CLA:HBC2	1.50	0.92
21:2:2001:CLA:C2B	21:2:2014:CLA:H2A	1.98	0.92
17:4:217:PHE:CD1	26:4:4502:LUT:H402	2.05	0.92
21:2:2008:CLA:H143	21:2:2008:CLA:H172	1.51	0.92
21:A:1117:CLA:H143	21:A:1125:CLA:C10	2.00	0.92
21:B:1213:CLA:H12	21:B:1213:CLA:C4D	1.99	0.92
14:1:91:VAL:HG11	26:1:1501:LUT:H191	1.51	0.92
20:B:7004:LHG:H321	20:B:7004:LHG:H181	1.51	0.92
12:L:87:PRO:HD2	21:L:1502:CLA:HED2	1.50	0.92
26:1:1501:LUT:H382	21:1:1001:CLA:HBA1	1.48	0.92
12:L:109:PHE:CE1	21:L:1503:CLA:C2C	2.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:648:THR:HG23	1:A:651:GLY:N	1.85	0.92
21:A:1125:CLA:CBB	21:A:1133:CLA:HMA2	2.00	0.92
12:L:104:LEU:HD21	19:L:6020:BCR:C12	2.00	0.92
21:1:1009:CLA:CBB	17:4:156:ILE:HG12	1.99	0.92
14:1:142:ILE:CD1	21:1:1013:CLA:HMC2	2.00	0.92
21:3:3008:CLA:H2A	21:3:3008:CLA:HED2	1.52	0.92
2:B:246:THR:HG22	2:B:248:GLN:HG2	1.50	0.91
20:B:7004:LHG:H201	20:B:7004:LHG:H342	1.52	0.91
7:G:94:GLN:HA	7:G:94:GLN:HE21	1.33	0.91
26:1:1501:LUT:C11	21:1:1002:CLA:HBA1	1.99	0.91
21:3:3012:CLA:HED3	21:3:3012:CLA:C2A	2.00	0.91
20:B:7004:LHG:H181	20:B:7004:LHG:C34	2.01	0.91
7:G:73:PHE:HD1	7:G:77:PHE:HD2	1.18	0.91
21:1:1006:CLA:HBA1	21:1:1014:CLA:C4C	2.01	0.91
21:2:2001:CLA:CHB	21:2:2014:CLA:HMA2	2.00	0.91
21:B:1213:CLA:HBA1	21:B:1213:CLA:CBD	2.01	0.91
7:G:92:PRO:HD2	7:G:93:GLU:H	1.34	0.91
21:1:1002:CLA:HED3	21:1:1002:CLA:C7	2.00	0.91
16:3:171:GLU:HA	16:3:174:ARG:CD	2.01	0.91
15:2:259:HIS:CB	21:2:2003:CLA:HBC3	1.99	0.90
21:4:4001:CLA:H72	21:4:4002:CLA:H43	1.51	0.90
21:J:6015:CLA:HHC	21:J:6015:CLA:HBB1	1.51	0.90
16:3:206:GLY:HA2	16:3:209:PHE:CZ	2.04	0.90
17:4:171:ASP:HB3	27:4:4503:NEX:C12	2.01	0.90
21:4:4001:CLA:H2	26:4:4501:LUT:C37	2.00	0.90
21:4:4008:CLA:HBC2	21:4:4008:CLA:HMC1	1.53	0.90
7:G:141:THR:HB	25:G:2021:LMG:HC72	1.51	0.90
21:2:2002:CLA:HMB2	26:2:2501:LUT:C11	2.01	0.90
16:3:167:MET:HA	16:3:167:MET:CE	2.01	0.90
1:A:281:LEU:HD11	21:A:1115:CLA:HMA3	1.52	0.90
19:G:2011:BCR:H403	19:G:2011:BCR:H23C	1.54	0.90
8:H:116:TYR:O	8:H:120:THR:CG2	2.19	0.90
16:3:204:PRO:HB2	16:3:209:PHE:HA	1.54	0.90
21:3:3011:CLA:HBA2	21:3:3011:CLA:HBD	1.50	0.90
19:L:6020:BCR:H372	21:L:1503:CLA:HBC1	1.52	0.90
21:1:1013:CLA:C4	21:1:1013:CLA:H71	1.99	0.90
14:1:211:LEU:HG	21:1:1003:CLA:HED3	1.52	0.90
26:1:1502:LUT:C39	21:1:1010:CLA:HMA2	2.01	0.90
21:4:4001:CLA:C7	21:4:4002:CLA:H43	2.02	0.90
21:2:2006:CLA:HED2	21:2:2006:CLA:H2A	1.53	0.90
21:1:1010:CLA:C4D	21:1:1010:CLA:HED2	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2:111:LEU:O	15:2:114:SER:OG	1.88	0.89
17:4:95:ALA:HB2	21:4:4012:CLA:CED	2.03	0.89
21:A:1125:CLA:HBB1	21:A:1133:CLA:CMA	2.02	0.89
12:L:108:PHE:CD1	12:L:200:ALA:HB2	2.07	0.89
21:1:1010:CLA:H92	21:1:1010:CLA:C3	2.01	0.89
17:4:214:MET:HE3	21:4:4004:CLA:HHC	1.52	0.89
4:D:166:TYR:HE1	4:D:170:LYS:HA	1.35	0.89
21:1:1009:CLA:HMC1	21:1:1009:CLA:HBC3	1.55	0.89
21:G:1002:CLA:HHC	21:G:1002:CLA:HBB1	1.52	0.89
7:G:65:SER:HA	7:G:68:THR:CG2	2.03	0.89
12:L:102:VAL:HG23	21:L:1502:CLA:O1D	1.73	0.89
12:L:119:PRO:C	12:L:120:LEU:HD23	1.93	0.89
21:4:4008:CLA:H3A	21:4:4008:CLA:C1	2.03	0.89
1:A:38:GLY:CA	1:A:44:ILE:HG22	2.02	0.88
17:4:246:THR:HG21	17:4:248:VAL:HG23	1.52	0.88
21:A:1104:CLA:HBB1	21:A:1127:CLA:HBB1	1.56	0.88
7:G:114:LEU:HG	7:G:116:LYS:H	1.38	0.88
21:1:1005:CLA:HMD2	21:1:1012:CLA:C1D	2.03	0.88
21:2:2006:CLA:HMC2	26:2:2502:LUT:C23	2.04	0.88
7:G:116:LYS:HD3	7:G:117:SER:N	1.88	0.88
14:1:102:LEU:HG	21:1:1006:CLA:HED3	1.54	0.88
15:2:118:MET:SD	21:2:2001:CLA:HHD	2.14	0.88
15:2:155:THR:HA	15:2:158:LEU:CD1	2.03	0.88
21:4:4002:CLA:HHC	21:4:4002:CLA:HBB1	1.55	0.88
16:3:264:PRO:HB3	21:3:3008:CLA:HMA3	1.51	0.88
21:1:1010:CLA:HED2	21:1:1010:CLA:C3D	2.03	0.88
1:A:546:ALA:O	1:A:550:HIS:ND1	2.07	0.88
12:L:201:PHE:CZ	12:L:205:TYR:CD2	2.62	0.88
17:4:104:MET:CE	21:4:4001:CLA:HMC3	2.03	0.88
1:A:544:ILE:O	1:A:548:THR:HG23	1.74	0.88
1:A:741:GLY:O	1:A:745:THR:OG1	1.90	0.88
2:B:621:ARG:NH2	2:B:622:ASP:OD2	2.07	0.87
12:L:121:ARG:CA	12:L:122:ASN:HB2	2.03	0.87
21:1:1009:CLA:C2D	27:4:4503:NEX:H202	2.03	0.87
1:A:474:GLN:OE1	1:A:474:GLN:N	2.08	0.87
15:2:158:LEU:HD12	15:2:159:PHE:N	1.87	0.87
21:2:2002:CLA:CHB	26:2:2501:LUT:H202	2.04	0.87
21:4:4001:CLA:H62	26:4:4501:LUT:H371	1.57	0.87
14:1:111:TRP:NE1	21:1:1013:CLA:HBA1	1.90	0.87
21:1:1009:CLA:HBB2	17:4:156:ILE:HG12	1.55	0.87
15:2:162:GLU:HG3	15:2:166:ILE:HD12	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:4:4012:CLA:H192	21:4:4012:CLA:C12	2.04	0.87
21:1:1005:CLA:OBD	21:1:1012:CLA:HBA2	1.75	0.87
21:2:2004:CLA:HMB2	21:2:2004:CLA:H42	1.57	0.87
2:B:292:ARG:CZ	7:G:91:VAL:HG21	2.03	0.87
12:L:85:ASN:HD22	21:L:1501:CLA:HAC1	1.40	0.87
15:2:259:HIS:CG	21:2:2003:CLA:HBC3	2.10	0.87
17:4:246:THR:CG2	21:4:4008:CLA:HED3	2.04	0.87
14:1:226:ILE:N	14:1:227:GLY:HA2	1.87	0.87
1:A:335:LYS:O	21:A:1141:CLA:HBC2	1.74	0.87
1:A:654:ARG:NE	1:A:655:ASP:OD1	2.07	0.87
20:A:7003:LHG:C9	21:A:1129:CLA:HBA1	2.04	0.87
12:L:106:HIS:O	12:L:110:LEU:HD23	1.74	0.87
12:L:159:SER:H	12:L:178:THR:HG22	1.39	0.86
16:3:171:GLU:HA	16:3:174:ARG:HD2	1.55	0.86
17:4:227:THR:HG21	17:4:234:ASN:CG	1.96	0.86
6:F:170:ILE:O	6:F:174:ILE:HG13	1.74	0.86
7:G:114:LEU:CD1	21:G:1002:CLA:HED2	2.05	0.86
26:1:1501:LUT:H171	21:1:1003:CLA:HBB1	1.56	0.86
21:1:1009:CLA:HHD	27:4:4503:NEX:C12	2.04	0.86
20:2:2801:LHG:HC81	20:2:2801:LHG:C13	2.00	0.86
21:1:1002:CLA:CGD	21:1:1002:CLA:HBA2	2.06	0.86
21:2:2013:CLA:HMC2	26:2:2502:LUT:H383	1.56	0.86
21:3:3009:CLA:HBD	21:3:3009:CLA:CBA	2.06	0.86
17:4:170:GLN:HG2	17:4:173:ILE:CG2	2.04	0.86
21:1:1007:CLA:H41	21:1:1007:CLA:C7	2.01	0.86
21:4:4010:CLA:HMC3	21:4:4013:CLA:HAB	1.57	0.86
2:B:246:THR:CG2	2:B:248:GLN:HG2	2.06	0.86
21:2:2003:CLA:HBC2	21:2:2003:CLA:HHD	1.55	0.86
16:3:204:PRO:CG	16:3:211:PRO:HD2	2.05	0.86
7:G:74:LEU:CA	7:G:78:VAL:HG12	2.06	0.86
21:1:1001:CLA:H61	21:1:1002:CLA:HAC2	1.57	0.86
21:1:1002:CLA:HED3	21:1:1002:CLA:H72	1.54	0.86
16:3:109:ASN:HB3	21:3:3012:CLA:O2D	1.76	0.86
26:1:1502:LUT:H171	21:1:1004:CLA:H101	1.58	0.86
15:2:83:GLY:N	15:2:88:ASP:OD2	2.08	0.86
14:1:66:LEU:HD23	21:1:1004:CLA:H42	1.57	0.85
14:1:202:GLN:HE22	14:1:208:THR:N	1.74	0.85
21:1:1009:CLA:CMD	27:4:4503:NEX:H11	2.06	0.85
4:D:198:PRO:HA	4:D:199:ILE:HG13	1.55	0.85
7:G:141:THR:CB	25:G:2021:LMG:HC72	2.06	0.85
14:1:150:SER:O	14:1:152:GLU:N	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2:2009:CLA:HBB1	21:2:2009:CLA:HMB1	1.56	0.85
8:H:135:PRO:CD	8:H:136:PRO:HD2	2.05	0.85
21:2:2002:CLA:HHB	26:2:2501:LUT:C20	2.06	0.85
12:L:145:LEU:CD2	19:L:6019:BCR:H392	2.01	0.85
21:1:1001:CLA:C6	21:1:1002:CLA:HAC2	2.05	0.85
7:G:73:PHE:CE1	7:G:77:PHE:CD2	2.64	0.85
7:G:94:GLN:NE2	7:G:98:GLY:H	1.75	0.85
12:L:86:LEU:HD11	21:L:1501:CLA:HMC3	1.58	0.85
12:L:90:ARG:HH21	21:L:1501:CLA:HAC2	1.42	0.85
21:2:2002:CLA:HMA2	21:2:2002:CLA:CGA	2.07	0.85
4:D:130:LEU:HD23	4:D:131:LYS:N	1.91	0.85
7:G:73:PHE:CE1	7:G:77:PHE:HD2	1.94	0.85
15:2:118:MET:HB2	26:2:2501:LUT:H35	1.58	0.85
17:4:199:THR:CA	17:4:200:LEU:HD22	2.06	0.85
1:A:342:GLY:CA	1:A:431:LEU:HD21	2.07	0.85
26:1:1501:LUT:H393	21:1:1001:CLA:H43	1.58	0.85
7:G:103:ALA:O	7:G:105:ASP:N	2.10	0.85
8:H:58:PHE:HE1	8:H:60:LEU:HD11	1.41	0.85
15:2:112:VAL:HG21	15:2:173:ARG:NH1	1.92	0.85
21:1:1009:CLA:C1D	21:4:4005:CLA:HAC1	2.06	0.85
17:4:169:ASN:HB3	27:4:4503:NEX:C17	2.07	0.85
14:1:131:LEU:HG	14:1:135:LEU:HD11	1.59	0.84
26:1:1501:LUT:H403	21:1:1001:CLA:CAB	2.07	0.84
17:4:169:ASN:ND2	27:4:4503:NEX:H173	1.90	0.84
17:4:190:ILE:N	21:4:4014:CLA:O2A	2.10	0.84
1:A:342:GLY:HA2	1:A:431:LEU:CD2	2.06	0.84
14:1:177:PHE:O	14:1:181:LYS:HG3	1.78	0.84
16:3:183:SER:H	16:3:184:MET:CE	1.90	0.84
15:2:222:GLU:OE2	21:2:2007:CLA:H43	1.77	0.84
21:3:3012:CLA:CGA	21:3:3012:CLA:HBD	2.06	0.84
2:B:292:ARG:CZ	7:G:107:ARG:NH2	2.40	0.84
14:1:198:ILE:O	14:1:202:GLN:HG2	1.77	0.84
21:1:1004:CLA:H92	21:1:1005:CLA:HHB	1.56	0.84
1:A:434:ARG:HA	1:A:437:ARG:HB2	1.58	0.84
16:3:214:PHE:CZ	21:3:3001:CLA:C3D	2.60	0.84
26:1:1501:LUT:C38	21:1:1001:CLA:HBA1	2.08	0.84
21:1:1006:CLA:HMB2	21:1:1013:CLA:H2	1.58	0.84
6:F:202:LEU:HD12	6:F:205:ARG:HA	1.58	0.84
13:N:159:LYS:NZ	13:N:162:CYS:SG	2.51	0.84
17:4:170:GLN:HG2	17:4:173:ILE:HB	1.60	0.84
1:A:323:ILE:HG12	21:A:1121:CLA:HMD1	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:198:PRO:HA	4:D:199:ILE:CG1	2.07	0.84
16:3:160:PHE:HE1	16:3:164:MET:HE3	1.42	0.84
21:4:4001:CLA:H52	21:4:4002:CLA:O1A	1.77	0.84
21:4:4003:CLA:CBB	26:4:4501:LUT:H182	2.08	0.84
26:1:1501:LUT:H24	21:1:1001:CLA:HBA2	1.58	0.83
21:1:1006:CLA:CMB	21:1:1013:CLA:HMA3	2.07	0.83
21:4:4005:CLA:H2A	21:4:4005:CLA:CED	2.07	0.83
1:A:429:ASN:HD21	1:A:431:LEU:HB2	1.42	0.83
14:1:101:GLY:O	14:1:102:LEU:HD23	1.76	0.83
15:2:234:ALA:O	15:2:238:VAL:HG23	1.78	0.83
14:1:211:LEU:HD21	21:1:1003:CLA:CGD	2.08	0.83
17:4:103:ALA:O	17:4:107:VAL:HG12	1.77	0.83
21:4:4004:CLA:H171	21:4:4004:CLA:H141	1.60	0.83
7:G:93:GLU:OE1	7:G:99:THR:OG1	1.94	0.83
14:1:146:GLU:CD	14:1:149:ARG:HH11	1.80	0.83
15:2:152:PHE:HB3	17:4:243:TRP:CZ3	2.13	0.83
15:2:259:HIS:HB3	21:2:2003:CLA:CBC	2.08	0.83
21:B:1226:CLA:H122	21:B:1226:CLA:H91	1.60	0.83
12:L:111:VAL:O	12:L:115:VAL:HG23	1.78	0.83
1:A:43:THR:HA	1:A:46:LYS:HE3	1.60	0.83
12:L:85:ASN:HD22	21:L:1501:CLA:CAC	1.91	0.83
13:N:168:TRP:CD1	16:3:262:ALA:HB2	2.14	0.83
21:1:1013:CLA:O1A	21:1:1013:CLA:HMA2	1.79	0.83
15:2:121:ALA:O	15:2:124:ILE:HG22	1.78	0.83
16:3:210:ASN:OD1	16:3:211:PRO:HD3	1.78	0.83
21:4:4002:CLA:HMB2	26:4:4501:LUT:C15	2.09	0.83
21:4:4003:CLA:O1A	21:4:4008:CLA:HED2	1.78	0.83
15:2:113:HIS:CD2	21:2:2012:CLA:HMD1	2.14	0.83
21:4:4001:CLA:H52	21:4:4002:CLA:CGA	2.09	0.83
12:L:176:LEU:HD12	12:L:176:LEU:O	1.78	0.83
26:1:1501:LUT:H173	21:1:1003:CLA:C2B	2.08	0.83
5:E:68:PRO:HG2	5:E:93:VAL:HG21	1.60	0.83
20:1:1801:LHG:H383	20:1:1801:LHG:H201	1.61	0.83
23:A:9011:CL0:H13	21:A:9012:CLA:OBD	1.78	0.82
7:G:91:VAL:HB	7:G:92:PRO:HB3	1.61	0.82
21:1:1003:CLA:C6	20:1:1801:LHG:H191	2.08	0.82
15:2:87:GLY:C	21:2:2004:CLA:HED1	1.99	0.82
21:A:1132:CLA:HBC2	21:B:1206:CLA:HBB2	1.59	0.82
7:G:114:LEU:HD22	7:G:119:ALA:C	2.00	0.82
14:1:218:LEU:O	14:1:221:PRO:HD2	1.79	0.82
21:F:1303:CLA:CED	21:F:1303:CLA:H12	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1:211:LEU:CD2	21:1:1003:CLA:HED3	2.08	0.82
26:1:1501:LUT:H393	21:1:1001:CLA:C4	2.08	0.82
15:2:171:GLY:C	21:4:4009:CLA:HED1	1.98	0.82
17:4:151:PHE:CD2	21:4:4012:CLA:HMC3	2.15	0.82
21:4:4006:CLA:HBC3	21:4:4006:CLA:CHD	2.07	0.82
14:1:211:LEU:CG	21:1:1003:CLA:HED3	2.09	0.82
17:4:190:ILE:O	17:4:193:PRO:HD3	1.80	0.82
17:4:247:ILE:CD1	21:4:4003:CLA:HMD1	2.09	0.82
12:L:86:LEU:CD1	21:L:1501:CLA:HMC3	2.09	0.82
21:1:1005:CLA:HMD2	21:1:1012:CLA:ND	1.94	0.82
21:1:1014:CLA:HMC1	21:1:1014:CLA:CBC	2.10	0.82
21:4:4006:CLA:HBC3	21:4:4006:CLA:HHD	1.59	0.82
1:A:441:ALA:HB1	21:A:1130:CLA:HED1	1.62	0.82
6:F:181:TYR:OH	6:F:198:ILE:HG22	1.80	0.82
21:2:2011:CLA:HBC2	21:2:2011:CLA:HMC1	1.58	0.82
1:A:401:TRP:CD1	21:A:1126:CLA:HAB	2.15	0.82
12:L:82:TYR:OH	21:L:1501:CLA:HBB2	1.79	0.82
21:2:2008:CLA:HMD2	16:3:162:LEU:HD13	1.61	0.82
17:4:110:MET:HB3	26:4:4502:LUT:C38	2.10	0.82
7:G:120:ALA:HB3	7:G:123:ASP:OD1	1.78	0.82
7:G:130:ILE:O	7:G:134:VAL:HG23	1.79	0.82
14:1:197:GLY:O	14:1:201:GLN:HG3	1.80	0.82
21:1:1001:CLA:H61	21:1:1002:CLA:HHD	1.60	0.82
21:3:3010:CLA:HBC2	21:3:3010:CLA:CHD	2.10	0.82
4:D:104:THR:HG22	4:D:129:LEU:HD23	1.59	0.82
21:2:2001:CLA:CHD	26:2:2501:LUT:H393	2.09	0.82
21:4:4002:CLA:HAC2	21:4:4007:CLA:HHB	1.61	0.82
21:4:4011:CLA:H122	21:4:4011:CLA:C7	2.09	0.82
1:A:457:SER:HB3	1:A:544:ILE:HD13	1.61	0.81
21:1:1013:CLA:H72	21:1:1014:CLA:CBB	2.09	0.81
20:A:7003:LHG:H252	21:A:1129:CLA:C5	2.11	0.81
5:E:103:VAL:HG11	5:E:124:GLU:OE2	1.80	0.81
15:2:155:THR:H	15:2:158:LEU:HD21	1.44	0.81
21:3:3009:CLA:HBB1	21:3:3009:CLA:CHC	2.07	0.81
21:A:1129:CLA:O1D	12:L:57:VAL:HG11	1.79	0.81
21:B:1223:CLA:HED1	21:B:1231:CLA:HAB	1.62	0.81
21:F:1303:CLA:HMD2	21:4:4012:CLA:C1D	2.11	0.81
7:G:64:ILE:O	7:G:68:THR:HG22	1.79	0.81
14:1:85:ARG:NH2	14:1:184:GLU:OE2	2.13	0.81
14:1:133:THR:O	14:1:137:ILE:HG23	1.81	0.81
21:4:4011:CLA:HBD	21:4:4011:CLA:HAA1	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:4:4501:LUT:C35	26:4:4501:LUT:H201	2.08	0.81
21:1:1009:CLA:HMB1	21:4:4015:CLA:CAD	2.11	0.81
21:2:2003:CLA:H71	21:2:2003:CLA:C4	2.04	0.81
20:2:2801:LHG:O10	20:2:2801:LHG:H141	1.80	0.81
12:L:120:LEU:HD12	12:L:126:ALA:CB	2.09	0.81
21:1:1009:CLA:C1D	27:4:4503:NEX:H202	2.10	0.81
15:2:115:ARG:NH1	21:2:2011:CLA:OBD	2.13	0.81
15:2:161:VAL:HG12	15:2:165:PHE:CE2	2.15	0.81
8:H:65:ASN:HA	8:H:70:TRP:HD1	1.46	0.81
21:1:1006:CLA:HBA1	21:1:1014:CLA:C3C	2.10	0.81
14:1:186:LYS:HZ3	21:1:1007:CLA:CED	1.93	0.81
21:3:3012:CLA:HBC2	21:3:3012:CLA:CHD	2.10	0.81
1:A:328:LYS:O	1:A:332:GLU:HG3	1.79	0.81
17:4:190:ILE:H	21:4:4014:CLA:CBA	1.93	0.81
21:4:4012:CLA:HBB1	21:4:4012:CLA:CHC	2.10	0.81
4:D:197:SER:O	4:D:199:ILE:HG23	1.81	0.81
13:N:161:LYS:HE3	13:N:168:TRP:CZ3	2.15	0.81
20:1:1801:LHG:H383	20:1:1801:LHG:H202	1.59	0.81
15:2:118:MET:CE	21:2:2001:CLA:HHD	2.11	0.81
16:3:264:PRO:HB3	21:3:3008:CLA:CMA	2.11	0.81
21:4:4001:CLA:C6	21:4:4002:CLA:H12	2.10	0.81
21:1:1001:CLA:H42	21:1:1002:CLA:HBC2	1.63	0.80
21:1:1013:CLA:H162	21:1:1013:CLA:H111	1.61	0.80
21:2:2001:CLA:C1D	26:2:2501:LUT:H393	2.11	0.80
21:4:4012:CLA:H192	21:4:4012:CLA:H122	1.61	0.80
2:B:77:TRP:HA	2:B:84:VAL:HG11	1.63	0.80
21:4:4001:CLA:H61	21:4:4002:CLA:C4	2.10	0.80
21:B:1226:CLA:H101	21:B:1226:CLA:H142	1.61	0.80
21:G:1002:CLA:HBC2	21:G:1002:CLA:CHD	2.11	0.80
21:4:4012:CLA:H192	21:4:4012:CLA:C15	2.12	0.80
4:D:199:ILE:HD13	4:D:201:VAL:CG2	2.09	0.80
7:G:76:ARG:HH12	21:G:1002:CLA:CHC	1.94	0.80
11:K:67:ALA:HA	11:K:70:PHE:HB2	1.63	0.80
12:L:121:ARG:HG3	12:L:121:ARG:HH11	1.47	0.80
16:3:171:GLU:HA	16:3:174:ARG:CG	2.10	0.80
2:B:292:ARG:NH2	7:G:107:ARG:NH2	2.30	0.80
21:4:4011:CLA:H122	21:4:4011:CLA:H71	1.64	0.80
1:A:43:THR:CA	1:A:46:LYS:CE	2.57	0.80
7:G:114:LEU:HD12	21:G:1002:CLA:CED	2.10	0.80
21:G:1001:CLA:HMC1	21:G:1001:CLA:CBC	2.11	0.80
21:4:4011:CLA:H202	21:4:4011:CLA:H143	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:J:6014:CLA:H2	21:J:6014:CLA:HBA2	1.64	0.80
17:4:170:GLN:CG	17:4:173:ILE:HB	2.12	0.80
21:H:1000:CLA:HMB2	21:L:1501:CLA:HAA1	1.62	0.80
17:4:199:THR:OG1	17:4:200:LEU:HB2	1.82	0.80
21:4:4012:CLA:HBC2	21:4:4012:CLA:HMC1	1.63	0.80
21:F:1303:CLA:H12	21:F:1303:CLA:O2D	1.81	0.80
14:1:46:PRO:HD3	21:4:4005:CLA:CBA	2.11	0.80
21:4:4001:CLA:H52	21:4:4002:CLA:H12	1.64	0.80
21:B:1226:CLA:H122	21:B:1226:CLA:C9	2.12	0.80
1:A:429:ASN:ND2	1:A:431:LEU:HB2	1.96	0.79
1:A:434:ARG:H	1:A:437:ARG:HG3	1.46	0.79
15:2:110:GLU:HB2	21:2:2004:CLA:C1B	2.12	0.79
21:2:2008:CLA:HBC3	21:2:2008:CLA:CHD	2.12	0.79
7:G:114:LEU:HD12	21:G:1002:CLA:CGD	2.12	0.79
21:1:1001:CLA:C5	21:1:1002:CLA:HAC2	2.12	0.79
7:G:73:PHE:HD1	7:G:77:PHE:CD2	1.96	0.79
15:2:153:THR:HG21	17:4:243:TRP:O	1.82	0.79
26:1:1502:LUT:C17	21:1:1004:CLA:H62	2.10	0.79
15:2:161:VAL:HG12	15:2:165:PHE:CD2	2.16	0.79
16:3:157:TYR:CE1	21:3:3010:CLA:HBC1	2.16	0.79
16:3:161:VAL:O	16:3:165:ALA:HB2	1.82	0.79
21:B:9010:CLA:HMB3	21:B:9022:CLA:OBD	1.81	0.79
7:G:127:TRP:O	7:G:130:ILE:HG22	1.81	0.79
14:1:100:LEU:HD21	21:1:1014:CLA:HAA1	1.63	0.79
14:1:131:LEU:HD23	14:1:132:PRO:N	1.98	0.79
20:1:1801:LHG:H172	20:1:1801:LHG:H212	1.65	0.79
21:2:2002:CLA:CMB	26:2:2501:LUT:H191	2.13	0.79
21:A:9012:CLA:O1D	21:B:9010:CLA:H52	1.83	0.79
17:4:190:ILE:H	21:4:4014:CLA:CGA	1.95	0.79
21:1:1010:CLA:HBA1	21:1:1010:CLA:H2	1.65	0.79
15:2:118:MET:HB2	26:2:2501:LUT:C35	2.12	0.79
1:A:43:THR:HA	1:A:46:LYS:CE	2.12	0.79
14:1:223:HIS:NE2	21:1:1003:CLA:HBD	1.98	0.79
21:1:1011:CLA:H71	21:1:1011:CLA:H2	1.63	0.79
21:2:2004:CLA:HMC2	26:2:2502:LUT:C11	2.13	0.79
17:4:110:MET:HB3	26:4:4502:LUT:H382	1.63	0.79
14:1:111:TRP:HE1	21:1:1013:CLA:CBA	1.94	0.78
21:1:1006:CLA:HMB1	21:1:1013:CLA:HMA3	1.64	0.78
17:4:110:MET:HE1	17:4:217:PHE:CE1	2.17	0.78
19:B:6004:BCR:HC7	21:B:1218:CLA:HMD2	1.65	0.78
21:2:2009:CLA:HED2	21:2:2009:CLA:C2A	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:29:HIS:HB2	21:B:1226:CLA:O1A	1.84	0.78
3:C:22:PRO:O	4:D:139:LEU:HD23	1.84	0.78
21:4:4002:CLA:HMB2	26:4:4501:LUT:H15	1.65	0.78
14:1:140:LEU:HD12	14:1:140:LEU:O	1.83	0.78
21:2:2003:CLA:H72	21:2:2003:CLA:C14	2.10	0.78
16:3:164:MET:SD	21:3:3012:CLA:HAC1	2.23	0.78
1:A:43:THR:CA	1:A:46:LYS:HG3	2.13	0.78
19:L:6019:BCR:H331	19:L:6019:BCR:C8	2.12	0.78
14:1:149:ARG:HG3	21:1:1011:CLA:CHD	2.13	0.78
15:2:157:THR:O	15:2:161:VAL:HG23	1.83	0.78
21:2:2003:CLA:HMC2	26:2:2501:LUT:O3	1.82	0.78
20:2:2801:LHG:C23	20:2:2801:LHG:H141	2.14	0.78
21:4:4002:CLA:C4C	21:4:4007:CLA:HMB2	2.13	0.78
21:A:1132:CLA:HBC1	21:B:1206:CLA:HBB2	1.64	0.78
21:2:2001:CLA:C1B	21:2:2014:CLA:HMA2	2.12	0.78
17:4:199:THR:CB	17:4:200:LEU:HB2	2.13	0.78
21:4:4002:CLA:C3C	21:4:4007:CLA:HMB2	2.13	0.78
21:4:4002:CLA:CHD	21:4:4007:CLA:HMB2	2.14	0.78
21:4:4002:CLA:H11	26:4:4501:LUT:H392	1.66	0.78
1:A:222:GLN:HA	1:A:226:SER:HB2	1.63	0.78
21:B:1228:CLA:HBC3	21:B:1228:CLA:CHD	2.13	0.78
21:1:1006:CLA:HMB2	21:1:1013:CLA:C2	2.13	0.78
15:2:92:ASP:OD1	15:2:95:GLY:N	2.16	0.78
21:4:4004:CLA:H41	21:4:4004:CLA:C7	2.06	0.78
1:A:204:ASN:HD21	1:A:317:TYR:HB2	1.49	0.78
20:A:7003:LHG:HC92	21:A:1129:CLA:HBA1	1.66	0.78
2:B:292:ARG:NH1	7:G:107:ARG:NH2	2.31	0.78
4:D:100:PHE:CZ	4:D:158:VAL:HG11	2.18	0.78
21:J:1302:CLA:H52	21:J:6014:CLA:HMA3	1.65	0.78
12:L:164:LEU:N	12:L:164:LEU:HD23	1.99	0.78
21:L:1503:CLA:HBB1	21:L:1503:CLA:CHC	2.13	0.78
13:N:160:PHE:CD1	13:N:161:LYS:HA	2.19	0.78
21:2:2003:CLA:H52	21:2:2003:CLA:C9	2.13	0.78
21:2:2012:CLA:HBC2	21:2:2012:CLA:CHD	2.14	0.78
21:2:2014:CLA:H3A	21:2:2014:CLA:CGA	2.13	0.78
17:4:238:HIS:O	17:4:242:PRO:HG3	1.84	0.78
6:F:202:LEU:CD1	6:F:205:ARG:HA	2.14	0.78
12:L:109:PHE:HE1	21:L:1503:CLA:C1C	1.98	0.78
21:1:1009:CLA:HMD2	27:4:4503:NEX:H11	1.66	0.78
21:4:4001:CLA:H61	21:4:4002:CLA:H12	1.66	0.78
21:4:4004:CLA:HBB1	21:4:4004:CLA:CMB	2.06	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:378:SER:OG	21:A:1125:CLA:HMC1	1.83	0.77
21:4:4002:CLA:HHC	21:4:4002:CLA:CBB	2.13	0.77
7:G:105:ASP:CA	7:G:106:GLU:HB3	2.13	0.77
21:B:1227:CLA:HBA2	21:B:1240:CLA:H42	1.65	0.77
13:N:161:LYS:HG3	13:N:167:PHE:HD2	1.45	0.77
21:4:4011:CLA:HBC2	21:4:4011:CLA:CHD	2.09	0.77
7:G:107:ARG:HA	7:G:108:ALA:HB3	1.66	0.77
26:4:4501:LUT:H181	26:4:4501:LUT:C8	2.06	0.77
15:2:83:GLY:HA2	15:2:88:ASP:CB	2.15	0.77
5:E:66:ILE:HG22	5:E:67:GLY:H	1.49	0.77
15:2:259:HIS:NE2	21:2:2003:CLA:HMD2	2.00	0.77
1:A:43:THR:O	1:A:46:LYS:CD	2.32	0.77
21:A:1117:CLA:H203	21:A:1125:CLA:HBA2	1.66	0.77
14:1:88:MET:CE	21:1:1001:CLA:HHC	2.15	0.77
21:1:1013:CLA:H71	21:1:1013:CLA:H41	1.65	0.77
16:3:214:PHE:HZ	21:3:3001:CLA:C3D	1.97	0.77
17:4:246:THR:HG22	17:4:248:VAL:HG23	1.66	0.77
8:H:63:ILE:HD12	12:L:170:LYS:HE3	1.66	0.77
14:1:82:ILE:HD13	21:1:1012:CLA:C3D	2.14	0.77
21:4:4001:CLA:C2	26:4:4501:LUT:H373	2.06	0.77
23:A:9011:CL0:H13	21:A:9012:CLA:CAD	2.14	0.77
26:1:1501:LUT:H382	21:1:1001:CLA:CBA	2.13	0.77
17:4:104:MET:HE2	21:4:4001:CLA:HMC3	1.67	0.77
21:1:1006:CLA:HBA1	21:1:1014:CLA:C1C	2.15	0.77
21:1:1010:CLA:HBC2	21:1:1010:CLA:CHD	2.11	0.77
26:2:2501:LUT:H391	26:2:2501:LUT:C32	2.15	0.77
21:4:4011:CLA:HBB1	21:4:4011:CLA:CMB	2.04	0.77
14:1:130:THR:O	14:1:134:ILE:HG13	1.85	0.76
21:1:1009:CLA:HAA1	21:1:1009:CLA:HBD	1.66	0.76
15:2:150:GLU:CB	21:2:2006:CLA:HMB1	2.14	0.76
16:3:163:GLU:OE2	21:3:3013:CLA:HMC3	1.85	0.76
1:A:739:LEU:O	1:A:743:ILE:HG13	1.85	0.76
21:A:1129:CLA:H3A	21:A:1129:CLA:O1A	1.85	0.76
7:G:124:VAL:HG22	21:G:1002:CLA:HMD3	1.66	0.76
21:L:1503:CLA:HBA1	21:L:1503:CLA:CHA	2.15	0.76
26:1:1501:LUT:H403	21:1:1001:CLA:HAB	1.66	0.76
21:4:4001:CLA:H61	21:4:4002:CLA:H43	1.67	0.76
21:4:4001:CLA:C4	21:4:4002:CLA:HBA1	2.14	0.76
21:J:6015:CLA:HHC	21:J:6015:CLA:CBB	2.15	0.76
13:N:91:TYR:HB2	13:N:94:LYS:HA	1.66	0.76
21:3:3010:CLA:HMA3	21:3:3014:CLA:O1D	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4:82:LEU:HD12	21:4:4004:CLA:H43	1.67	0.76
15:2:160:ILE:O	15:2:164:VAL:HG23	1.85	0.76
4:D:104:THR:HG22	4:D:129:LEU:CD2	2.15	0.76
8:H:58:PHE:CD1	8:H:60:LEU:HD11	2.21	0.76
21:1:1002:CLA:OBD	21:1:1002:CLA:HED2	1.84	0.76
21:1:1013:CLA:HBC2	21:1:1013:CLA:CHD	2.15	0.76
21:2:2008:CLA:HMD2	16:3:162:LEU:HD12	1.68	0.76
21:4:4006:CLA:HAC2	21:4:4013:CLA:C2C	2.15	0.76
19:A:6008:BCR:C35	21:A:1125:CLA:HED1	2.16	0.76
21:A:9012:CLA:O1D	21:B:9010:CLA:H71	1.86	0.76
17:4:238:HIS:NE2	21:4:4003:CLA:O1D	2.18	0.76
21:1:1002:CLA:HED3	21:1:1002:CLA:C5	2.16	0.76
15:2:83:GLY:HA2	15:2:88:ASP:HB3	1.66	0.76
20:A:7001:LHG:H252	21:A:1128:CLA:C4	2.13	0.76
7:G:91:VAL:HB	7:G:92:PRO:CA	2.16	0.76
17:4:146:GLU:O	17:4:151:PHE:HB2	1.85	0.76
1:A:343:HIS:H	1:A:431:LEU:CD2	1.99	0.75
23:A:9011:CL0:H15	23:A:9011:CL0:CHC	2.16	0.75
21:1:1013:CLA:H91	21:1:1013:CLA:C3D	2.15	0.75
20:1:1801:LHG:H211	17:4:148:ILE:HG12	1.67	0.75
21:2:2003:CLA:H52	21:2:2003:CLA:H92	1.66	0.75
20:B:7004:LHG:H242	21:B:1227:CLA:C7	2.16	0.75
21:B:1220:CLA:HAB	21:B:1227:CLA:HMD2	1.67	0.75
21:F:1303:CLA:HHD	21:F:1303:CLA:HBC2	1.67	0.75
12:L:120:LEU:HB2	12:L:126:ALA:CB	2.16	0.75
21:L:1501:CLA:HBB1	21:L:1501:CLA:CHC	2.16	0.75
14:1:211:LEU:HD11	21:1:1003:CLA:O1D	1.86	0.75
15:2:152:PHE:O	15:2:153:THR:HG23	1.86	0.75
17:4:95:ALA:HA	21:4:4012:CLA:HED3	1.66	0.75
21:A:9012:CLA:HMD3	21:B:9010:CLA:O1A	1.85	0.75
14:1:173:ASP:N	14:1:173:ASP:OD1	2.19	0.75
21:4:4002:CLA:O2D	21:4:4002:CLA:HBA2	1.87	0.75
21:2:2003:CLA:HHD	21:2:2003:CLA:CBC	2.16	0.75
1:A:343:HIS:H	1:A:431:LEU:HD23	1.52	0.75
21:3:3011:CLA:HBA2	21:3:3011:CLA:CBD	2.14	0.75
21:3:3011:CLA:HBB1	21:3:3011:CLA:HMB1	1.66	0.75
17:4:243:TRP:CD1	21:4:4008:CLA:HMA1	2.22	0.75
21:B:1226:CLA:H101	21:B:1226:CLA:C14	2.16	0.75
12:L:203:LEU:O	12:L:207:LEU:N	2.20	0.75
12:L:205:TYR:O	12:L:206:VAL:HG23	1.87	0.75
13:N:162:CYS:O	13:N:167:PHE:HB2	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1:94:ILE:HG22	14:1:105:TRP:CB	2.15	0.75
21:2:2002:CLA:HBA1	26:2:2501:LUT:H15	1.68	0.75
14:1:74:GLU:OE1	14:1:159:LYS:NZ	2.20	0.75
15:2:228:ILE:O	15:2:232:ARG:HG3	1.87	0.75
16:3:159:LEU:HD13	21:3:3013:CLA:C1D	2.17	0.75
1:A:200:GLU:O	1:A:204:ASN:ND2	2.19	0.75
21:2:2011:CLA:HMC1	21:2:2011:CLA:CBC	2.16	0.75
3:C:78:GLY:HA2	4:D:134:ARG:NH1	2.02	0.75
14:1:133:THR:O	14:1:136:VAL:HG22	1.86	0.75
21:A:1119:CLA:HMB2	21:A:1123:CLA:HMA3	1.67	0.74
14:1:60:GLY:O	21:1:1009:CLA:H43	1.87	0.74
21:B:1227:CLA:H193	21:B:1236:CLA:H52	1.67	0.74
21:B:1227:CLA:H8	21:B:1240:CLA:H11	1.69	0.74
10:J:2:ARG:NH2	21:2:2005:CLA:H43	2.03	0.74
21:4:4002:CLA:CGA	21:4:4002:CLA:HMA2	2.17	0.74
21:2:2013:CLA:HBB1	21:2:2013:CLA:CHC	2.12	0.74
7:G:105:ASP:HA	7:G:106:GLU:CB	2.14	0.74
12:L:145:LEU:HB3	12:L:186:THR:HG22	1.69	0.74
13:N:117:ALA:O	13:N:119:THR:N	2.18	0.74
17:4:170:GLN:HG2	17:4:173:ILE:HG21	1.69	0.74
2:B:621:ARG:HH21	2:B:622:ASP:CG	1.90	0.74
5:E:76:ILE:C	5:E:77:LEU:HD12	2.07	0.74
12:L:144:CYS:HB3	19:L:6019:BCR:H19C	1.69	0.74
21:2:2005:CLA:O1D	21:2:2012:CLA:H61	1.87	0.74
12:L:119:PRO:O	12:L:120:LEU:HD23	1.87	0.74
16:3:160:PHE:HE1	16:3:164:MET:CE	1.98	0.74
4:D:166:TYR:CE1	4:D:170:LYS:HA	2.22	0.74
21:1:1002:CLA:O1A	21:1:1002:CLA:HMA2	1.88	0.74
15:2:168:TRP:HE1	21:2:2011:CLA:CBB	2.01	0.74
15:2:235:MET:HE3	21:2:2004:CLA:CMC	2.17	0.74
17:4:179:LEU:N	21:4:4014:CLA:HMA1	2.03	0.74
3:C:23:THR:O	4:D:135:LYS:HE2	1.87	0.74
8:H:135:PRO:HG2	8:H:136:PRO:CD	2.18	0.74
15:2:74:GLY:O	16:3:176:GLN:NE2	2.21	0.74
17:4:170:GLN:HE22	21:4:4014:CLA:C1C	2.00	0.74
17:4:217:PHE:CG	26:4:4502:LUT:H402	2.23	0.74
21:4:4001:CLA:H101	21:4:4002:CLA:C4	2.18	0.74
21:4:4004:CLA:HAB	26:4:4502:LUT:H203	1.70	0.74
21:4:4012:CLA:H122	21:4:4012:CLA:C19	2.18	0.74
21:1:1009:CLA:H93	21:1:1009:CLA:C12	2.16	0.74
21:3:3008:CLA:HHC	21:3:3008:CLA:CBB	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:B:7004:LHG:H321	20:B:7004:LHG:C18	2.18	0.73
15:2:109:ALA:CA	21:2:2012:CLA:HED3	2.17	0.73
21:2:2002:CLA:C3A	26:2:2501:LUT:H201	2.16	0.73
7:G:91:VAL:HB	7:G:92:PRO:CB	2.18	0.73
21:2:2008:CLA:H143	21:2:2008:CLA:C17	2.18	0.73
15:2:124:ILE:HD11	26:2:2501:LUT:H172	1.71	0.73
4:D:167:LEU:O	4:D:167:LEU:HD12	1.89	0.73
21:4:4011:CLA:H101	27:4:4503:NEX:H382	1.71	0.73
20:B:7004:LHG:H181	20:B:7004:LHG:H341	1.69	0.73
7:G:61:SER:HB2	21:G:1001:CLA:OBD	1.88	0.73
7:G:94:GLN:HE21	7:G:94:GLN:CA	2.01	0.73
21:2:2003:CLA:H143	21:2:2003:CLA:C10	2.18	0.73
21:3:3009:CLA:O1A	21:3:3009:CLA:H2A	1.88	0.73
21:A:1126:CLA:H192	21:A:9012:CLA:H161	1.70	0.73
21:F:1303:CLA:HMD2	21:4:4012:CLA:CHD	2.18	0.73
12:L:91:THR:HG21	12:L:174:ASP:OD1	1.88	0.73
12:L:109:PHE:HE1	21:L:1503:CLA:C2C	1.97	0.73
13:N:115:ALA:HB1	13:N:122:PHE:HB2	1.71	0.73
21:3:3011:CLA:HBC2	21:3:3011:CLA:CHD	2.17	0.73
17:4:170:GLN:HG2	17:4:173:ILE:CB	2.19	0.73
21:4:4001:CLA:C6	21:4:4002:CLA:H43	2.18	0.73
21:4:4001:CLA:C5	21:4:4002:CLA:H12	2.19	0.73
21:A:1129:CLA:HMB2	21:A:1130:CLA:C2D	2.19	0.73
12:L:90:ARG:NH2	21:L:1501:CLA:HAC2	2.03	0.73
21:1:1009:CLA:HMD1	20:1:1801:LHG:HC12	1.69	0.73
21:2:2002:CLA:H71	26:2:2501:LUT:H362	1.70	0.73
21:3:3010:CLA:HBA1	21:3:3010:CLA:CBD	2.19	0.73
2:B:166:SER:CB	7:G:102:ASP:HB2	2.19	0.73
12:L:120:LEU:HB2	12:L:126:ALA:HB3	1.69	0.73
21:1:1001:CLA:C4	21:1:1002:CLA:HAC2	2.19	0.73
21:1:1002:CLA:H72	21:1:1002:CLA:CED	2.17	0.73
15:2:257:PHE:CE1	21:2:2008:CLA:H42	2.24	0.73
17:4:149:LEU:HB3	27:4:4503:NEX:H361	1.71	0.73
7:G:116:LYS:N	21:G:1002:CLA:HMA3	2.03	0.73
21:2:2006:CLA:HMC2	26:2:2502:LUT:H222	1.68	0.73
21:4:4001:CLA:H61	21:4:4002:CLA:C1	2.19	0.73
21:A:1129:CLA:HMA2	12:L:71:THR:HG21	1.70	0.73
26:2:2502:LUT:H28	26:2:2502:LUT:H371	1.70	0.73
21:3:3010:CLA:HMA3	21:3:3014:CLA:CGD	2.19	0.73
21:4:4004:CLA:CHC	26:4:4502:LUT:H193	2.19	0.73
21:F:1301:CLA:HBB1	21:F:1301:CLA:HHC	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1:202:GLN:HE22	14:1:208:THR:CA	2.02	0.72
26:1:1501:LUT:H382	21:1:1001:CLA:CGA	2.19	0.72
1:A:209:GLY:HA2	21:A:1118:CLA:HBC1	1.70	0.72
1:A:232:PHE:HB3	1:A:237:VAL:HG11	1.70	0.72
17:4:169:ASN:HB3	27:4:4503:NEX:H173	1.71	0.72
21:1:1013:CLA:H162	21:1:1013:CLA:C11	2.20	0.72
15:2:152:PHE:HE2	21:2:2006:CLA:H62	1.52	0.72
15:2:155:THR:HG22	15:2:156:THR:N	2.04	0.72
16:3:173:ARG:HB3	21:3:3011:CLA:HBC3	1.70	0.72
21:3:3008:CLA:HBB1	21:3:3008:CLA:CHC	2.18	0.72
6:F:207:VAL:HG23	6:F:208:PHE:H	1.54	0.72
7:G:99:THR:HG23	7:G:100:HIS:N	2.04	0.72
21:G:1001:CLA:HHC	21:G:1001:CLA:HBB1	1.71	0.72
16:3:176:GLN:OE1	16:3:176:GLN:HA	1.88	0.72
17:4:227:THR:HG21	17:4:234:ASN:OD1	1.88	0.72
21:4:4003:CLA:H41	21:4:4003:CLA:H72	1.71	0.72
21:4:4015:CLA:HBC2	21:4:4015:CLA:HMC1	1.70	0.72
1:A:126:ILE:HD11	10:J:31:ARG:HG2	1.72	0.72
21:A:1122:CLA:HHC	21:A:1122:CLA:HBB1	1.71	0.72
12:L:121:ARG:HG3	12:L:121:ARG:NH1	2.00	0.72
14:1:46:PRO:N	21:4:4005:CLA:HBA1	2.03	0.72
14:1:196:VAL:O	14:1:200:VAL:HG23	1.89	0.72
16:3:200:ASN:H	16:3:201:PRO:CD	2.02	0.72
21:3:3013:CLA:HMC1	21:3:3013:CLA:CBC	2.17	0.72
17:4:95:ALA:CA	21:4:4012:CLA:HED3	2.18	0.72
26:1:1501:LUT:H35	21:1:1002:CLA:OBD	1.89	0.72
15:2:162:GLU:HG3	15:2:166:ILE:CD1	2.19	0.72
1:A:362:LEU:HD21	21:A:1128:CLA:CBB	2.19	0.72
21:B:1213:CLA:O2A	7:G:140:LEU:HD21	1.90	0.72
4:D:198:PRO:CA	4:D:199:ILE:HG13	2.19	0.72
12:L:201:PHE:HE1	12:L:205:TYR:HD2	1.28	0.72
21:A:1106:CLA:HMC3	21:A:1107:CLA:HMD2	1.72	0.72
21:B:1234:CLA:HMB2	21:B:1236:CLA:HED1	1.72	0.72
14:1:225:ASN:C	14:1:227:GLY:HA2	2.10	0.72
17:4:246:THR:HG23	21:4:4008:CLA:CED	2.19	0.72
21:4:4014:CLA:HBC2	21:4:4014:CLA:CMC	2.16	0.72
8:H:135:PRO:HD2	8:H:136:PRO:CD	2.14	0.72
21:1:1001:CLA:O1A	21:1:1001:CLA:H3A	1.89	0.72
21:4:4008:CLA:H3A	21:4:4008:CLA:CGA	2.20	0.72
19:L:6020:BCR:C19	21:L:1501:CLA:HMB2	2.20	0.71
21:1:1003:CLA:H62	20:1:1801:LHG:H191	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:4:4006:CLA:HMC1	26:4:4502:LUT:H222	1.72	0.71
21:A:1129:CLA:HBB2	21:A:1137:CLA:HBB2	1.71	0.71
21:B:1213:CLA:C1	7:G:140:LEU:HD21	2.19	0.71
26:1:1501:LUT:C39	21:1:1001:CLA:H62	2.20	0.71
21:1:1009:CLA:ND	21:4:4005:CLA:HAC1	2.05	0.71
15:2:152:PHE:CE2	21:2:2006:CLA:H62	2.24	0.71
21:2:2002:CLA:C7	26:2:2501:LUT:H362	2.20	0.71
21:4:4004:CLA:CBC	21:4:4009:CLA:HBB2	2.15	0.71
21:B:1216:CLA:HMB2	21:B:1221:CLA:HMA3	1.72	0.71
21:2:2004:CLA:HMB2	21:2:2004:CLA:C4	2.20	0.71
21:3:3011:CLA:HHD	21:3:3011:CLA:CBC	2.18	0.71
7:G:74:LEU:HD12	7:G:78:VAL:HG11	1.70	0.71
7:G:78:VAL:HG13	7:G:79:PHE:CD2	2.25	0.71
7:G:114:LEU:HD12	21:G:1002:CLA:O1D	1.89	0.71
21:1:1003:CLA:H41	20:1:1801:LHG:C19	2.20	0.71
15:2:259:HIS:HE2	21:2:2003:CLA:CMD	2.02	0.71
21:2:2004:CLA:H13	26:2:2502:LUT:H193	1.72	0.71
17:4:169:ASN:HD22	27:4:4503:NEX:C17	2.01	0.71
17:4:238:HIS:ND1	21:4:4003:CLA:HMA2	2.06	0.71
21:4:4003:CLA:C2B	26:4:4501:LUT:H42	2.19	0.71
7:G:141:THR:HB	25:G:2021:LMG:C7	2.20	0.71
14:1:160:TYR:HB3	21:1:1001:CLA:CED	2.15	0.71
26:1:1501:LUT:C10	21:1:1002:CLA:HBA1	2.20	0.71
21:1:1002:CLA:HED3	21:1:1002:CLA:H61	1.72	0.71
26:2:2502:LUT:H181	26:2:2502:LUT:C8	2.20	0.71
1:A:43:THR:CB	1:A:46:LYS:CE	2.37	0.71
1:A:474:GLN:O	1:A:481:ALA:HB1	1.91	0.71
2:B:292:ARG:CZ	7:G:91:VAL:HG11	2.20	0.71
21:G:1002:CLA:HBD	21:G:1002:CLA:CBA	2.13	0.71
21:2:2002:CLA:HBC2	21:2:2002:CLA:CMC	2.16	0.71
17:4:160:GLN:CB	21:4:4005:CLA:HMA3	2.20	0.71
14:1:81:LEU:O	14:1:85:ARG:N	2.20	0.71
26:1:1502:LUT:H222	21:1:1006:CLA:CAB	2.19	0.71
21:1:1013:CLA:HED3	21:1:1014:CLA:CMC	2.21	0.71
5:E:79:GLN:HA	5:E:84:TYR:CD1	2.26	0.71
12:L:155:GLU:HB2	12:L:156:GLY:HA2	1.72	0.71
14:1:46:PRO:HA	21:4:4005:CLA:O1A	1.90	0.71
21:1:1011:CLA:H171	21:1:1011:CLA:H141	1.72	0.71
15:2:110:GLU:O	15:2:110:GLU:HG2	1.88	0.71
21:4:4009:CLA:HHC	21:4:4009:CLA:HBB1	1.72	0.71
21:A:1137:CLA:HBB1	21:A:1137:CLA:HHC	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:659:THR:HA	21:B:9023:CLA:HAB	1.72	0.71
7:G:65:SER:OG	21:G:1001:CLA:HBA1	1.91	0.71
16:3:221:LEU:C	16:3:223:GLU:HA	2.11	0.71
1:A:43:THR:HB	1:A:46:LYS:NZ	2.06	0.71
21:B:1227:CLA:CBA	21:B:1240:CLA:H42	2.21	0.71
21:1:1006:CLA:HHC	21:1:1006:CLA:HBB1	1.72	0.71
15:2:113:HIS:CG	21:2:2004:CLA:HBB2	2.26	0.71
16:3:108:ILE:CG1	21:3:3011:CLA:HBB2	2.03	0.71
17:4:243:TRP:NE1	21:4:4008:CLA:O1A	2.23	0.71
2:B:203:ARG:HG2	2:B:250:ALA:HB1	1.72	0.70
12:L:120:LEU:CD1	12:L:126:ALA:HB2	2.17	0.70
21:2:2009:CLA:H2A	21:2:2009:CLA:CED	2.20	0.70
21:4:4012:CLA:HHC	21:4:4012:CLA:CBB	2.18	0.70
7:G:93:GLU:CB	7:G:99:THR:HB	2.17	0.70
7:G:107:ARG:HA	7:G:108:ALA:CB	2.20	0.70
8:H:65:ASN:HA	8:H:70:TRP:CD1	2.25	0.70
14:1:128:TRP:O	14:1:130:THR:N	2.22	0.70
21:B:1222:CLA:H191	21:B:1227:CLA:C20	2.22	0.70
26:1:1502:LUT:H173	21:1:1004:CLA:C6	2.16	0.70
7:G:140:LEU:HD23	7:G:141:THR:HA	1.72	0.70
21:1:1005:CLA:HBB1	21:1:1005:CLA:CHC	2.14	0.70
21:2:2002:CLA:HMB1	26:2:2501:LUT:C19	2.21	0.70
21:A:1130:CLA:HED3	2:B:680:TRP:HH2	1.56	0.70
21:1:1009:CLA:H203	21:4:4015:CLA:OBD	1.90	0.70
21:1:1012:CLA:HBC2	21:1:1013:CLA:HAB	1.74	0.70
15:2:99:ASP:O	15:2:102:SER:HB2	1.91	0.70
15:2:110:GLU:HB2	21:2:2004:CLA:CHB	2.22	0.70
15:2:170:GLU:OE1	15:2:173:ARG:NH2	2.21	0.70
21:4:4015:CLA:HHC	21:4:4015:CLA:HBB1	1.73	0.70
6:F:111:ALA:O	6:F:112:ASP:HB3	1.92	0.70
21:1:1001:CLA:C6	21:1:1002:CLA:HHD	2.20	0.70
21:1:1002:CLA:CED	21:1:1002:CLA:H52	2.21	0.70
15:2:167:GLY:HA2	21:2:2012:CLA:CAB	2.22	0.70
2:B:85:ARG:HG3	2:B:85:ARG:NH1	1.97	0.70
26:2:2501:LUT:H391	26:2:2501:LUT:H32	1.73	0.70
20:A:7003:LHG:O4	20:A:7003:LHG:O2	2.08	0.70
6:F:207:VAL:HG23	6:F:208:PHE:N	2.06	0.70
12:L:51:LYS:N	12:L:52:PRO:HD3	2.07	0.70
13:N:99:LYS:HE2	13:N:100:GLU:HB3	1.72	0.70
14:1:61:PHE:CE2	26:1:1502:LUT:H42	2.26	0.70
15:2:232:ARG:HH22	21:2:2004:CLA:HED2	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2:2003:CLA:HBB2	26:2:2501:LUT:C4	2.22	0.70
17:4:104:MET:HE3	21:4:4001:CLA:HMC3	1.73	0.70
17:4:225:ASN:HD21	21:4:4010:CLA:C5	2.05	0.70
1:A:331:LEU:HD12	21:A:1122:CLA:CED	2.21	0.70
21:B:1205:CLA:H2	21:B:1205:CLA:H101	1.73	0.70
21:B:9010:CLA:HHD	21:B:9010:CLA:CBC	2.20	0.70
7:G:75:GLY:O	7:G:80:PHE:HB2	1.91	0.70
7:G:138:LEU:HD22	25:G:2021:LMG:O10	1.92	0.70
10:J:2:ARG:O	10:J:2:ARG:HG2	1.91	0.70
14:1:142:ILE:HD11	21:1:1013:CLA:CMC	2.20	0.70
16:3:208:PHE:HB3	21:3:3001:CLA:O2D	1.90	0.70
20:A:7001:LHG:C25	21:A:1128:CLA:H42	2.15	0.69
21:A:1132:CLA:H141	21:A:1132:CLA:H172	1.74	0.69
12:L:85:ASN:ND2	21:L:1501:CLA:HAC1	2.07	0.69
21:1:1004:CLA:HMB1	21:1:1004:CLA:CBB	2.15	0.69
17:4:217:PHE:HE1	26:4:4502:LUT:H392	1.57	0.69
21:F:1303:CLA:C2B	26:4:4502:LUT:H202	2.22	0.69
7:G:74:LEU:O	7:G:78:VAL:HG12	1.92	0.69
12:L:135:ALA:O	12:L:138:VAL:HG22	1.91	0.69
14:1:108:ALA:HB1	21:1:1006:CLA:HMA1	1.72	0.69
16:3:109:ASN:HB3	21:3:3012:CLA:CGD	2.21	0.69
21:4:4007:CLA:HBC2	21:4:4007:CLA:CHD	2.21	0.69
21:1:1009:CLA:CBB	21:1:1009:CLA:HHC	2.21	0.69
21:1:1010:CLA:H2	21:1:1010:CLA:CBA	2.22	0.69
21:2:2010:CLA:HED2	21:2:2010:CLA:CAD	2.22	0.69
17:4:160:GLN:HB3	21:4:4005:CLA:HMA3	1.72	0.69
21:4:4002:CLA:CAC	21:4:4007:CLA:HMB2	2.22	0.69
1:A:43:THR:HA	1:A:46:LYS:CG	2.22	0.69
26:1:1501:LUT:C12	21:1:1002:CLA:HBA1	2.21	0.69
21:1:1001:CLA:C3	21:1:1002:CLA:HAC2	2.22	0.69
16:3:172:HIS:HA	21:3:3012:CLA:HBB2	1.73	0.69
16:3:173:ARG:O	16:3:176:GLN:HB2	1.92	0.69
1:A:609:ILE:HD12	1:A:609:ILE:N	2.08	0.69
21:B:9023:CLA:H3A	21:B:9023:CLA:CGA	2.23	0.69
7:G:116:LYS:HA	21:G:1002:CLA:CMA	2.18	0.69
21:1:1013:CLA:HED3	21:1:1014:CLA:HMC2	1.75	0.69
16:3:108:ILE:HG23	21:3:3011:CLA:HBB1	1.74	0.69
17:4:169:ASN:CB	27:4:4503:NEX:H173	2.22	0.69
17:4:199:THR:CA	17:4:200:LEU:HB2	2.23	0.69
17:4:235:LEU:O	17:4:235:LEU:HD12	1.92	0.69
21:4:4001:CLA:H3A	21:4:4001:CLA:CGA	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G:2011:BCR:H403	19:G:2011:BCR:C23	2.15	0.69
11:K:98:PRO:HA	11:K:101:PHE:H	1.58	0.69
16:3:160:PHE:CE1	16:3:164:MET:HE3	2.27	0.69
17:4:171:ASP:HB3	27:4:4503:NEX:C10	2.23	0.69
17:4:247:ILE:HD12	17:4:247:ILE:O	1.93	0.69
1:A:42:ARG:HD2	1:A:42:ARG:C	2.12	0.69
4:D:133:ALA:O	4:D:134:ARG:HB2	1.92	0.69
12:L:54:TYR:HE1	12:L:55:GLN:HE21	1.39	0.69
12:L:104:LEU:HA	12:L:192:GLY:O	1.93	0.69
12:L:129:ALA:O	12:L:132:LEU:HB2	1.92	0.69
14:1:168:LEU:CB	14:1:170:TYR:HE1	1.97	0.69
21:1:1006:CLA:HBA1	21:1:1014:CLA:C2C	2.21	0.69
17:4:104:MET:CE	21:4:4001:CLA:HHC	2.23	0.69
8:H:65:ASN:O	8:H:70:TRP:HB2	1.92	0.69
21:1:1008:CLA:H51	21:1:1008:CLA:H92	1.73	0.69
17:4:151:PHE:HB3	21:4:4012:CLA:CBB	2.23	0.69
21:G:1001:CLA:O1A	19:G:2011:BCR:H352	1.93	0.69
11:K:96:GLY:O	11:K:99:ALA:HB3	1.92	0.69
21:3:3009:CLA:HED2	21:3:3009:CLA:C2A	2.21	0.69
17:4:214:MET:CE	21:4:4004:CLA:HMC3	2.23	0.69
21:B:1220:CLA:HMA1	21:B:1240:CLA:CED	2.23	0.68
4:D:79:THR:CG2	4:D:129:LEU:HB2	2.23	0.68
12:L:87:PRO:CD	21:L:1502:CLA:HED2	2.21	0.68
15:2:221:LYS:O	15:2:225:THR:HG23	1.94	0.68
21:2:2003:CLA:H143	21:2:2003:CLA:H102	1.73	0.68
17:4:149:LEU:CB	27:4:4503:NEX:H361	2.23	0.68
21:4:4011:CLA:HMB3	27:4:4503:NEX:O24	1.93	0.68
21:A:1114:CLA:HBB1	21:A:1114:CLA:HMB1	1.75	0.68
2:B:98:GLN:NE2	8:H:126:LEU:O	2.25	0.68
4:D:77:PRO:CG	4:D:78:ASN:H	2.05	0.68
4:D:198:PRO:HA	4:D:199:ILE:HG23	1.75	0.68
14:1:88:MET:HE3	21:1:1001:CLA:HHC	1.75	0.68
16:3:233:ARG:HA	16:3:236:MET:HB2	1.75	0.68
14:1:86:TRP:CE2	21:1:1011:CLA:HED3	2.28	0.68
14:1:91:VAL:HG11	26:1:1501:LUT:H192	1.73	0.68
2:B:230:TRP:CE3	7:G:140:LEU:HD12	2.29	0.68
12:L:89:TYR:O	12:L:90:ARG:HB2	1.93	0.68
12:L:109:PHE:CE1	21:L:1503:CLA:C1C	2.76	0.68
12:L:199:TRP:O	12:L:203:LEU:HD13	1.93	0.68
15:2:109:ALA:HB2	21:2:2012:CLA:HED1	1.74	0.68
21:2:2002:CLA:H41	21:2:2002:CLA:H8	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4:163:LYS:HE2	21:4:4005:CLA:CED	2.23	0.68
7:G:95:ASN:CB	7:G:96:GLY:HA3	2.23	0.68
21:1:1003:CLA:C4	20:1:1801:LHG:H192	2.22	0.68
15:2:118:MET:HG3	15:2:119:LEU:HD12	1.75	0.68
16:3:112:PHE:HA	16:3:115:LEU:HG	1.75	0.68
16:3:207:PRO:HB2	16:3:208:PHE:CD1	2.28	0.68
17:4:243:TRP:HD1	21:4:4008:CLA:HMA1	1.57	0.68
20:B:7004:LHG:H181	20:B:7004:LHG:C32	2.22	0.68
21:B:1239:CLA:HMC1	21:B:1239:CLA:CBC	2.24	0.68
21:1:1002:CLA:H52	21:1:1002:CLA:O2D	1.93	0.68
21:1:1002:CLA:HHC	21:1:1002:CLA:CBB	2.24	0.68
1:A:654:ARG:HH21	1:A:655:ASP:CG	1.96	0.68
21:B:1231:CLA:HBB2	21:B:1234:CLA:HBA1	1.75	0.68
15:2:113:HIS:CE1	21:2:2004:CLA:HBB2	2.29	0.68
15:2:234:ALA:O	15:2:238:VAL:N	2.20	0.68
21:2:2006:CLA:H52	21:2:2006:CLA:C12	2.24	0.68
21:2:2013:CLA:HHC	21:2:2013:CLA:CBB	2.18	0.68
19:A:6008:BCR:H353	21:A:1137:CLA:H43	1.76	0.68
5:E:78:ARG:O	5:E:79:GLN:HB2	1.93	0.68
7:G:116:LYS:HB2	21:G:1002:CLA:C1A	2.24	0.68
12:L:96:LEU:HD23	12:L:96:LEU:C	2.13	0.68
14:1:160:TYR:HB3	21:1:1001:CLA:O1D	1.94	0.68
20:A:7003:LHG:HC91	21:A:1129:CLA:HBA1	1.75	0.68
13:N:151:GLU:HA	13:N:165:ASN:OD1	1.94	0.68
21:1:1009:CLA:O1D	20:1:1801:LHG:HC62	1.94	0.68
4:D:104:THR:CG2	4:D:129:LEU:HD23	2.23	0.68
21:1:1013:CLA:O2D	21:1:1013:CLA:HBA2	1.93	0.68
15:2:155:THR:O	15:2:158:LEU:HG	1.93	0.68
16:3:209:PHE:CE1	21:3:3011:CLA:HMC3	2.29	0.68
21:4:4004:CLA:HBC2	21:4:4009:CLA:CBB	2.19	0.68
2:B:422:LEU:HG	21:B:1236:CLA:HAB	1.74	0.67
21:J:6015:CLA:HBB1	21:J:6015:CLA:CHC	2.21	0.67
15:2:155:THR:H	15:2:158:LEU:CD2	2.07	0.67
21:2:2002:CLA:HMB1	26:2:2501:LUT:H191	1.75	0.67
16:3:256:ASN:HB3	21:3:3003:CLA:HMC1	1.74	0.67
1:A:43:THR:HA	1:A:46:LYS:HG3	1.76	0.67
21:1:1003:CLA:H41	20:1:1801:LHG:H192	1.76	0.67
21:1:1005:CLA:H92	21:1:1005:CLA:C5	2.15	0.67
21:4:4005:CLA:CBD	21:4:4005:CLA:HAA1	2.22	0.67
19:B:6005:BCR:H311	21:B:1209:CLA:HBC3	1.75	0.67
7:G:74:LEU:CD1	7:G:78:VAL:HG11	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:57:MET:HA	11:K:60:SER:HB2	1.76	0.67
21:4:4010:CLA:HMC3	21:4:4013:CLA:CAB	2.24	0.67
20:A:7001:LHG:H211	21:A:1109:CLA:H202	1.76	0.67
5:E:79:GLN:HG2	5:E:84:TYR:CZ	2.30	0.67
10:J:11:ALA:HB1	10:J:12:PRO:CD	2.25	0.67
21:L:1503:CLA:HHC	21:L:1503:CLA:CBB	2.19	0.67
14:1:94:ILE:CG2	14:1:105:TRP:HB3	2.19	0.67
1:A:323:ILE:HG23	21:A:1118:CLA:HED2	1.77	0.67
2:B:311:PRO:HD2	20:B:7004:LHG:O1	1.95	0.67
21:B:9022:CLA:H3A	21:B:9022:CLA:O1A	1.95	0.67
7:G:94:GLN:HE22	7:G:98:GLY:H	1.42	0.67
7:G:107:ARG:CA	7:G:108:ALA:HB3	2.25	0.67
20:1:1801:LHG:H172	20:1:1801:LHG:C21	2.20	0.67
4:D:198:PRO:HA	4:D:199:ILE:CB	2.23	0.67
7:G:92:PRO:HD2	7:G:93:GLU:N	2.08	0.67
21:1:1006:CLA:C4B	21:1:1013:CLA:H43	2.25	0.67
21:2:2013:CLA:HBC2	21:2:2013:CLA:CMC	2.12	0.67
17:4:99:ASN:HD22	21:4:4004:CLA:CBB	2.07	0.67
21:4:4011:CLA:HAA1	21:4:4011:CLA:CBD	2.21	0.67
21:A:1131:CLA:H93	21:A:1131:CLA:C5	2.24	0.67
23:A:9011:CL0:H2	23:A:9011:CL0:CBB	2.23	0.67
21:1:1012:CLA:HBC2	21:1:1012:CLA:HMC1	1.76	0.67
15:2:94:LEU:HB3	15:2:96:LEU:HD21	1.76	0.67
21:4:4002:CLA:HBB1	21:4:4002:CLA:CHC	2.24	0.67
10:J:11:ALA:HB1	10:J:12:PRO:HD2	1.76	0.67
13:N:168:TRP:HD1	16:3:262:ALA:HB2	1.58	0.67
21:1:1002:CLA:HBA2	21:1:1002:CLA:O1D	1.94	0.67
15:2:97:GLY:HA2	15:2:102:SER:HB3	1.76	0.67
21:3:3008:CLA:HBA1	21:3:3008:CLA:CHA	2.25	0.67
21:4:4001:CLA:HMD2	21:4:4011:CLA:O2A	1.95	0.67
1:A:615:HIS:HD2	21:A:1135:CLA:CMC	2.08	0.67
2:B:443:MET:HG2	2:B:451:LYS:HB2	1.76	0.67
7:G:105:ASP:CA	7:G:106:GLU:CB	2.72	0.67
15:2:110:GLU:HB2	21:2:2004:CLA:C2B	2.25	0.67
15:2:113:HIS:HD2	21:2:2012:CLA:HMD1	1.57	0.67
21:2:2009:CLA:HED2	21:2:2009:CLA:H2A	1.76	0.67
17:4:190:ILE:H	21:4:4014:CLA:HBA1	1.59	0.67
21:4:4004:CLA:H72	21:4:4004:CLA:C4	2.18	0.67
1:A:457:SER:HB3	1:A:544:ILE:CD1	2.25	0.67
21:1:1009:CLA:HBB2	17:4:156:ILE:HG21	1.76	0.67
21:A:1130:CLA:O1A	2:B:686:PRO:CD	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:292:ARG:NH2	7:G:107:ARG:HH22	1.90	0.66
13:N:116:ARG:HG2	13:N:117:ALA:O	1.95	0.66
13:N:168:TRP:HD1	16:3:262:ALA:CB	2.08	0.66
14:1:100:LEU:CD2	21:1:1014:CLA:HAA1	2.25	0.66
21:1:1008:CLA:HAA1	21:1:1008:CLA:HBD	1.77	0.66
21:4:4008:CLA:H3A	21:4:4008:CLA:H12	1.76	0.66
1:A:615:HIS:CD2	21:A:1135:CLA:CMC	2.79	0.66
21:A:1132:CLA:HBC1	21:B:1206:CLA:CBB	2.25	0.66
21:B:1213:CLA:HBC3	21:B:1213:CLA:HHD	1.77	0.66
21:1:1009:CLA:HMC2	17:4:156:ILE:HD11	1.77	0.66
21:2:2011:CLA:H2A	21:2:2011:CLA:O2D	1.94	0.66
17:4:171:ASP:HB2	17:4:172:PRO:CD	2.25	0.66
1:A:609:ILE:HD12	1:A:609:ILE:H	1.60	0.66
1:A:683:HIS:CE1	1:A:745:THR:HG21	2.31	0.66
7:G:140:LEU:HD23	7:G:140:LEU:C	2.16	0.66
12:L:110:LEU:O	12:L:113:PRO:HD2	1.95	0.66
13:N:165:ASN:O	13:N:166:VAL:HG12	1.95	0.66
14:1:200:VAL:HG21	21:1:1003:CLA:HAC2	1.77	0.66
21:2:2013:CLA:HMC1	21:2:2013:CLA:CBC	2.18	0.66
21:A:1106:CLA:HBB1	21:A:1106:CLA:HMB1	1.77	0.66
7:G:93:GLU:HB3	7:G:99:THR:CB	2.21	0.66
21:2:2008:CLA:HBB2	26:2:2501:LUT:H183	1.77	0.66
17:4:110:MET:HE1	17:4:217:PHE:CD1	2.30	0.66
21:4:4003:CLA:HMB1	26:4:4501:LUT:H183	1.77	0.66
21:A:1115:CLA:H8	11:K:110:GLY:HA2	1.77	0.66
6:F:169:TYR:HA	6:F:213:TRP:CZ3	2.31	0.66
16:3:206:GLY:HA2	16:3:209:PHE:HZ	1.58	0.66
1:A:126:ILE:HG23	1:A:127:VAL:HG22	1.78	0.66
4:D:162:GLY:O	4:D:163:GLU:HB2	1.94	0.66
14:1:94:ILE:HG23	26:1:1502:LUT:H383	1.78	0.66
21:2:2011:CLA:HAA1	21:2:2011:CLA:HBD	1.76	0.66
17:4:170:GLN:HE22	21:4:4014:CLA:CHC	2.08	0.66
8:H:134:LEU:HB3	8:H:138:LEU:HA	1.77	0.66
14:1:131:LEU:HD23	14:1:131:LEU:C	2.15	0.66
15:2:158:LEU:CD1	21:2:2010:CLA:HBC1	2.25	0.66
21:2:2003:CLA:H143	21:2:2003:CLA:C8	2.25	0.66
16:3:167:MET:HA	16:3:167:MET:HE1	1.77	0.66
1:A:62:HIS:HB2	21:A:1128:CLA:O1A	1.95	0.66
3:C:78:GLY:HA2	4:D:134:ARG:HH12	1.59	0.66
7:G:124:VAL:CG2	21:G:1002:CLA:HMD3	2.25	0.66
21:2:2002:CLA:HHC	21:2:2002:CLA:HBB1	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2:2006:CLA:HMA2	21:2:2006:CLA:O2A	1.95	0.66
17:4:238:HIS:CE1	21:4:4003:CLA:H2A	2.31	0.66
14:1:137:ILE:C	14:1:137:ILE:HD12	2.15	0.66
21:1:1012:CLA:CBC	21:1:1013:CLA:HAB	2.26	0.66
15:2:159:PHE:CD1	21:2:2010:CLA:HBC3	2.31	0.66
16:3:183:SER:H	16:3:184:MET:HE1	1.60	0.66
21:3:3012:CLA:HBD	21:3:3012:CLA:O2A	1.95	0.66
17:4:197:ALA:O	17:4:199:THR:N	2.29	0.66
9:I:14:LEU:HD11	19:I:6018:BCR:H351	1.77	0.66
21:3:3011:CLA:HBA2	21:3:3011:CLA:CGD	2.25	0.66
17:4:77:PHE:HE2	26:4:4502:LUT:H173	1.60	0.66
1:A:735:VAL:O	1:A:739:LEU:HG	1.96	0.65
2:B:85:ARG:HH11	2:B:85:ARG:CG	2.07	0.65
7:G:115:LEU:HD12	21:G:1002:CLA:C1	2.25	0.65
25:G:2021:LMG:O2	25:G:2021:LMG:HC71	1.94	0.65
12:L:109:PHE:CZ	21:L:1503:CLA:HMC3	2.31	0.65
12:L:121:ARG:HB2	12:L:122:ASN:ND2	2.11	0.65
17:4:163:LYS:HE2	21:4:4005:CLA:HED3	1.78	0.65
21:4:4003:CLA:CMB	26:4:4501:LUT:H183	2.26	0.65
7:G:74:LEU:CG	7:G:78:VAL:HG11	2.25	0.65
7:G:83:GLN:OE1	7:G:84:ARG:N	2.30	0.65
13:N:160:PHE:CZ	13:N:166:VAL:HG11	2.31	0.65
17:4:225:ASN:C	17:4:226:VAL:HG13	2.17	0.65
7:G:74:LEU:HG	7:G:78:VAL:HG11	1.78	0.65
12:L:143:ILE:O	12:L:147:ILE:HG12	1.95	0.65
2:B:50:HIS:ND1	21:B:1210:CLA:OBD	2.25	0.65
21:1:1003:CLA:C19	21:1:1003:CLA:H152	2.25	0.65
21:1:1008:CLA:H152	21:1:1008:CLA:HMC1	1.76	0.65
15:2:168:TRP:N	21:4:4009:CLA:O1A	2.29	0.65
21:2:2005:CLA:O1A	21:2:2005:CLA:HED1	1.96	0.65
21:2:2011:CLA:HHC	21:2:2011:CLA:HBB1	1.78	0.65
21:2:2013:CLA:HBA1	21:2:2013:CLA:O1D	1.95	0.65
26:4:4501:LUT:C15	26:4:4501:LUT:H401	2.26	0.65
21:B:9010:CLA:HBB1	21:B:9010:CLA:HMB1	1.77	0.65
21:1:1006:CLA:HHC	21:1:1006:CLA:CBB	2.25	0.65
17:4:95:ALA:CB	21:4:4012:CLA:CED	2.75	0.65
21:4:4001:CLA:H52	21:4:4002:CLA:C1	2.27	0.65
15:2:109:ALA:HB2	21:2:2012:CLA:CED	2.27	0.65
20:2:2801:LHG:HC62	20:2:2801:LHG:C14	2.27	0.65
16:3:183:SER:O	16:3:184:MET:HB2	1.96	0.65
17:4:156:ILE:O	17:4:159:TRP:HB3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:255:LEU:HD23	21:A:1113:CLA:HED1	1.78	0.65
1:A:530:LEU:HD12	1:A:531:PRO:HD2	1.78	0.65
2:B:656:VAL:HG22	21:B:1239:CLA:HMB3	1.78	0.65
14:1:162:GLY:N	21:1:1001:CLA:O2D	2.30	0.65
21:1:1006:CLA:HMB2	21:1:1013:CLA:HMA3	1.78	0.65
5:E:123:ASP:N	5:E:123:ASP:OD1	2.30	0.65
7:G:65:SER:HA	7:G:68:THR:HG22	1.77	0.65
21:1:1007:CLA:C4C	20:1:1801:LHG:HC42	2.26	0.65
21:1:1008:CLA:H91	21:1:1008:CLA:H121	1.79	0.65
21:1:1003:CLA:HBA1	21:1:1003:CLA:CBD	2.23	0.65
21:2:2003:CLA:HBB2	26:2:2501:LUT:H41	1.78	0.65
16:3:211:PRO:O	16:3:212:LEU:HB3	1.96	0.65
16:3:214:PHE:HZ	21:3:3001:CLA:C2D	2.10	0.65
21:3:3009:CLA:HBA2	21:3:3009:CLA:CBD	2.19	0.65
21:A:1125:CLA:C10	21:A:1125:CLA:H52	2.27	0.65
4:D:168:HIS:HA	4:D:169:PRO:C	2.15	0.65
5:E:93:VAL:HG22	5:E:103:VAL:HA	1.79	0.65
21:G:1002:CLA:O1D	21:G:1002:CLA:H2A	1.97	0.65
17:4:194:LEU:O	17:4:195:ASN:HB2	1.96	0.65
16:3:171:GLU:HA	16:3:174:ARG:HG3	1.79	0.64
17:4:105:LEU:HG	21:4:4006:CLA:HBB2	1.77	0.64
17:4:199:THR:HA	17:4:200:LEU:CG	2.27	0.64
21:4:4001:CLA:H101	21:4:4002:CLA:H41	1.79	0.64
1:A:602:LEU:HG	1:A:739:LEU:HD11	1.79	0.64
24:B:7101:DGD:HBG2	21:B:1224:CLA:HBC3	1.79	0.64
7:G:73:PHE:HE1	7:G:77:PHE:CD2	2.14	0.64
12:L:169:ARG:O	12:L:170:LYS:HB2	1.98	0.64
13:N:160:PHE:HA	13:N:161:LYS:C	2.15	0.64
26:1:1501:LUT:H24	21:1:1001:CLA:CBA	2.27	0.64
21:1:1008:CLA:H2A	21:1:1008:CLA:O1D	1.97	0.64
17:4:99:ASN:ND2	21:4:4004:CLA:HBB2	2.12	0.64
17:4:207:ILE:O	17:4:210:GLY:N	2.30	0.64
21:A:1117:CLA:C14	21:A:1125:CLA:C10	2.73	0.64
6:F:198:ILE:O	10:J:10:VAL:HG11	1.98	0.64
7:G:140:LEU:HD23	7:G:141:THR:N	2.11	0.64
13:N:130:ASN:OD1	13:N:131:PHE:N	2.29	0.64
14:1:142:ILE:C	21:1:1012:CLA:HBB1	2.17	0.64
21:1:1006:CLA:HMB1	21:1:1013:CLA:CMA	2.26	0.64
15:2:220:LEU:O	15:2:224:ARG:HG3	1.97	0.64
21:A:1130:CLA:CAD	12:L:73:VAL:HG11	2.28	0.64
21:A:1140:CLA:H192	10:J:22:LEU:HD23	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:139:LEU:HD12	4:D:139:LEU:O	1.98	0.64
16:3:164:MET:CE	21:3:3012:CLA:HBC1	2.27	0.64
21:A:1140:CLA:CMC	21:A:9013:CLA:H71	2.27	0.64
4:D:129:LEU:HD13	4:D:129:LEU:C	2.17	0.64
3:C:28:MET:HE3	3:C:39:ILE:O	1.98	0.64
21:1:1001:CLA:H42	21:1:1002:CLA:CBC	2.27	0.64
17:4:214:MET:HE2	21:4:4004:CLA:HMC3	1.78	0.64
1:A:205:HIS:O	1:A:209:GLY:N	2.31	0.64
1:A:608:SER:O	1:A:611:VAL:HG12	1.98	0.64
1:A:744:ALA:HA	19:A:6011:BCR:H391	1.78	0.64
14:1:105:TRP:HE1	14:1:202:GLN:HG3	1.63	0.64
14:1:155:PRO:O	14:1:159:LYS:N	2.31	0.64
21:1:1002:CLA:HED3	21:1:1002:CLA:H52	1.79	0.64
21:1:1006:CLA:CMB	21:1:1013:CLA:CMA	2.74	0.64
21:2:2004:CLA:O1D	21:2:2004:CLA:H2A	1.97	0.64
7:G:133:ILE:HA	19:G:2011:BCR:H401	1.78	0.64
16:3:160:PHE:HA	16:3:163:GLU:HB3	1.80	0.64
17:4:225:ASN:O	17:4:226:VAL:HG22	1.98	0.64
2:B:458:ILE:HG21	6:F:151:SER:HB3	1.79	0.64
26:1:1502:LUT:C20	21:1:1004:CLA:HAB	2.25	0.64
21:1:1006:CLA:C1B	21:1:1013:CLA:H43	2.28	0.64
21:1:1009:CLA:HMA3	20:1:1801:LHG:H282	1.79	0.64
15:2:173:ARG:O	15:2:177:ILE:HG12	1.97	0.64
15:2:243:PHE:HA	15:2:246:ILE:HG12	1.78	0.64
21:2:2003:CLA:C14	21:2:2003:CLA:H102	2.27	0.64
21:2:2010:CLA:H171	21:2:2010:CLA:C14	2.24	0.64
14:1:134:ILE:O	14:1:137:ILE:HG13	1.97	0.64
17:4:106:GLY:O	17:4:109:GLY:N	2.30	0.64
2:B:628:SER:CB	21:B:9010:CLA:HBC1	2.27	0.63
21:B:9023:CLA:HHD	21:B:9023:CLA:HBC2	1.80	0.63
21:F:1303:CLA:HBA2	21:F:1303:CLA:O2D	1.98	0.63
12:L:177:GLN:C	12:L:178:THR:HG23	2.18	0.63
14:1:128:TRP:CB	14:1:133:THR:HG21	2.28	0.63
21:1:1003:CLA:H62	20:1:1801:LHG:C19	2.28	0.63
21:4:4003:CLA:HBD	21:4:4003:CLA:HAA1	1.80	0.63
19:A:6017:BCR:H362	21:B:9023:CLA:H112	1.81	0.63
2:B:50:HIS:HB3	21:B:1210:CLA:HED3	1.78	0.63
12:L:104:LEU:HD21	19:L:6020:BCR:C11	2.28	0.63
13:N:132:THR:HA	13:N:134:CYS:N	2.13	0.63
14:1:66:LEU:CG	21:1:1004:CLA:H42	2.28	0.63
14:1:170:TYR:HD2	14:1:180:TYR:HE2	1.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1:1006:CLA:HBA1	21:1:1014:CLA:NC	2.13	0.63
21:G:1002:CLA:HBA2	21:G:1002:CLA:CGD	2.28	0.63
21:2:2002:CLA:H62	26:2:2501:LUT:H362	1.80	0.63
16:3:173:ARG:NH1	16:3:183:SER:OG	2.31	0.63
16:3:257:LEU:HD22	21:3:3003:CLA:HAB	1.79	0.63
17:4:127:TRP:HE1	17:4:231:PRO:HD3	1.63	0.63
17:4:214:MET:CE	21:4:4004:CLA:HHC	2.26	0.63
17:4:225:ASN:O	17:4:226:VAL:HG13	1.98	0.63
1:A:308:ILE:HA	1:A:311:LEU:HB2	1.80	0.63
21:A:1102:CLA:HMA2	21:A:1109:CLA:HMD2	1.79	0.63
21:A:1138:CLA:H12	21:B:1229:CLA:HAA2	1.80	0.63
10:J:6:THR:O	10:J:10:VAL:HG23	1.99	0.63
12:L:174:ASP:O	12:L:175:GLN:HB2	1.99	0.63
21:1:1008:CLA:HMC2	21:1:1008:CLA:C15	2.26	0.63
6:F:198:ILE:C	6:F:200:VAL:H	2.01	0.63
12:L:159:SER:N	12:L:178:THR:HG22	2.12	0.63
16:3:204:PRO:HB2	16:3:209:PHE:CA	2.27	0.63
21:3:3010:CLA:C4D	21:3:3010:CLA:H12	2.28	0.63
21:4:4005:CLA:HAA1	21:4:4005:CLA:HBD	1.81	0.63
21:A:1129:CLA:HMB2	21:A:1130:CLA:C1D	2.29	0.63
2:B:166:SER:HB3	7:G:102:ASP:HB2	1.81	0.63
2:B:315:LEU:CA	2:B:410:ARG:HH21	2.12	0.63
4:D:158:VAL:O	4:D:159:PHE:HB2	1.97	0.63
6:F:169:TYR:HA	6:F:213:TRP:HZ3	1.61	0.63
15:2:167:GLY:O	15:2:171:GLY:N	2.31	0.63
21:3:3008:CLA:H2A	21:3:3008:CLA:O2D	1.97	0.63
21:A:1115:CLA:H51	11:K:113:GLY:HA3	1.81	0.63
4:D:156:TYR:CE2	4:D:166:TYR:HD2	2.16	0.63
13:N:132:THR:HB	13:N:135:GLN:HG3	1.80	0.63
17:4:104:MET:HE1	21:4:4001:CLA:HHC	1.80	0.63
17:4:155:GLU:OE1	17:4:158:ARG:NH1	2.31	0.63
17:4:202:ALA:O	17:4:206:GLU:N	2.28	0.63
21:4:4014:CLA:CGA	21:4:4014:CLA:H3A	2.29	0.63
1:A:746:THR:O	1:A:749:PHE:HB3	1.98	0.63
14:1:94:ILE:HD13	26:1:1502:LUT:C38	2.26	0.63
21:B:1228:CLA:HBB1	21:B:1229:CLA:H202	1.81	0.63
21:B:1229:CLA:HAB	21:B:1230:CLA:HMB2	1.80	0.63
7:G:116:LYS:O	7:G:118:ALA:N	2.32	0.63
21:G:1002:CLA:HBB1	21:G:1002:CLA:CHC	2.26	0.63
12:L:158:PRO:HA	12:L:178:THR:HG22	1.81	0.63
21:2:2002:CLA:HMA1	26:2:2501:LUT:C20	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:648:THR:CG2	1:A:651:GLY:HA3	2.29	0.62
21:F:1303:CLA:H12	21:F:1303:CLA:HED1	1.81	0.62
21:F:1303:CLA:C1	21:F:1303:CLA:HED1	2.28	0.62
14:1:102:LEU:CG	21:1:1006:CLA:HED2	2.22	0.62
21:A:1140:CLA:HMC3	21:A:9013:CLA:H71	1.81	0.62
21:B:1213:CLA:C1	7:G:140:LEU:HD11	2.23	0.62
3:C:15:THR:OG1	3:C:19:ARG:NH1	2.32	0.62
6:F:113:SER:O	6:F:116:ALA:HB3	1.99	0.62
8:H:117:PHE:CG	9:I:11:LEU:HD21	2.34	0.62
10:J:10:VAL:O	10:J:10:VAL:HG12	1.98	0.62
21:1:1002:CLA:HMB2	21:1:1007:CLA:C3D	2.30	0.62
1:A:653:LEU:HG	1:A:653:LEU:O	1.99	0.62
19:A:6011:BCR:H333	21:A:9013:CLA:C14	2.29	0.62
21:B:1230:CLA:H12	25:J:5001:LMG:H111	1.79	0.62
4:D:100:PHE:CE1	4:D:158:VAL:HG21	2.34	0.62
12:L:61:ASN:ND2	12:L:166:LEU:HG	2.13	0.62
13:N:106:ARG:HG3	13:N:113:ASN:HB2	1.79	0.62
21:1:1013:CLA:HHD	21:1:1013:CLA:CBC	2.22	0.62
21:1:1013:CLA:C7	21:1:1014:CLA:HBB2	2.25	0.62
21:2:2004:CLA:HAB	26:2:2502:LUT:H12	1.81	0.62
17:4:202:ALA:O	17:4:205:LYS:N	2.32	0.62
1:A:648:THR:HG23	1:A:651:GLY:CA	2.29	0.62
2:B:166:SER:OG	7:G:103:ALA:N	2.33	0.62
19:B:6004:BCR:H382	19:B:6004:BCR:H23C	1.80	0.62
4:D:198:PRO:HA	4:D:199:ILE:CG2	2.30	0.62
21:1:1004:CLA:H91	21:1:1005:CLA:HMB3	1.81	0.62
21:1:1009:CLA:C4D	21:4:4005:CLA:HAC1	2.28	0.62
15:2:118:MET:O	15:2:121:ALA:HB3	1.99	0.62
17:4:189:GLY:O	17:4:192:ASN:N	2.21	0.62
12:L:172:GLN:CA	12:L:172:GLN:HE21	2.12	0.62
16:3:163:GLU:O	16:3:167:MET:HB2	1.99	0.62
21:4:4008:CLA:H3A	21:4:4008:CLA:C2	2.29	0.62
1:A:394:SER:HB2	21:A:1126:CLA:HMA1	1.82	0.62
1:A:751:LEU:HA	1:A:754:ILE:HD11	1.81	0.62
21:B:1210:CLA:HBB1	21:B:1210:CLA:HMB1	1.82	0.62
19:F:6016:BCR:HC7	21:F:1302:CLA:HMB2	1.81	0.62
12:L:125:TYR:O	12:L:125:TYR:HD1	1.82	0.62
14:1:223:HIS:NE2	21:1:1003:CLA:HBA1	2.15	0.62
21:1:1003:CLA:H152	21:1:1003:CLA:H192	1.82	0.62
17:4:168:VAL:O	21:4:4014:CLA:HMB3	1.99	0.62
5:E:91:VAL:HG22	5:E:106:ARG:HG3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:155:GLU:N	12:L:156:GLY:HA2	2.15	0.62
14:1:195:PHE:CE1	26:1:1502:LUT:H402	2.34	0.62
21:1:1003:CLA:H92	20:1:1801:LHG:H182	1.81	0.62
21:2:2005:CLA:HBC1	21:2:2012:CLA:CBC	2.27	0.62
16:3:224:LEU:O	16:3:228:GLU:N	2.31	0.62
21:B:1222:CLA:H191	21:B:1227:CLA:H201	1.82	0.62
7:G:70:LEU:HD22	14:1:140:LEU:HD22	1.82	0.62
8:H:72:LEU:CG	8:H:76:ASP:HB3	2.27	0.62
15:2:115:ARG:O	15:2:118:MET:HG2	2.00	0.62
15:2:152:PHE:HB3	17:4:243:TRP:CH2	2.35	0.62
21:3:3009:CLA:HHC	21:3:3009:CLA:CBB	2.14	0.62
17:4:104:MET:HE1	21:4:4001:CLA:CHC	2.29	0.62
17:4:110:MET:CG	26:4:4502:LUT:H383	2.30	0.62
17:4:148:ILE:O	17:4:152:HIS:HB3	2.00	0.62
1:A:281:LEU:HB2	1:A:301:HIS:HB2	1.79	0.62
1:A:546:ALA:HB1	21:A:1136:CLA:HMB3	1.82	0.62
21:B:1204:CLA:HED2	9:I:6:SER:HB2	1.81	0.62
12:L:60:ILE:HA	12:L:70:GLU:HG3	1.81	0.62
12:L:78:LEU:HD12	12:L:78:LEU:O	1.98	0.62
26:2:2501:LUT:H171	26:2:2501:LUT:H8	1.82	0.62
17:4:211:ARG:HD2	21:4:4004:CLA:C4C	2.30	0.62
21:4:4006:CLA:HBC1	21:4:4013:CLA:C3C	2.29	0.62
1:A:269:PHE:HD1	1:A:274:TRP:HE1	1.47	0.62
21:A:1130:CLA:CBB	21:A:1136:CLA:H192	2.30	0.62
2:B:315:LEU:C	2:B:410:ARG:HH21	2.03	0.62
21:1:1002:CLA:CGD	21:1:1002:CLA:H52	2.29	0.62
15:2:96:LEU:H	15:2:96:LEU:HD23	1.65	0.62
21:2:2010:CLA:HMC3	21:2:2013:CLA:CHC	2.30	0.62
21:A:1129:CLA:HBB1	21:A:1129:CLA:CHC	2.15	0.61
21:B:1207:CLA:HAB	9:I:14:LEU:HG	1.81	0.61
3:C:28:MET:HE3	3:C:28:MET:HA	1.81	0.61
21:G:1002:CLA:HHC	21:G:1002:CLA:CBB	2.28	0.61
21:H:1000:CLA:HHB	21:L:1501:CLA:HBA2	1.82	0.61
14:1:134:ILE:HD13	21:1:1013:CLA:HAA2	1.80	0.61
17:4:239:ILE:O	17:4:241:ASP:N	2.33	0.61
21:B:1217:CLA:HAB	19:G:2011:BCR:C37	2.31	0.61
7:G:94:GLN:NE2	7:G:94:GLN:HA	2.12	0.61
14:1:224:ASN:O	14:1:225:ASN:HB2	1.98	0.61
21:2:2009:CLA:CBC	21:3:3009:CLA:HBA1	2.30	0.61
21:3:3010:CLA:H2A	21:3:3010:CLA:O1D	1.99	0.61
1:A:401:TRP:NE1	21:A:1126:CLA:HAB	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B:6006:BCR:H353	21:B:1211:CLA:H2	1.82	0.61
21:B:1221:CLA:HBB1	21:B:1221:CLA:HMB1	1.81	0.61
12:L:166:LEU:O	12:L:167:THR:HG22	1.99	0.61
21:2:2005:CLA:HMD2	21:2:2012:CLA:ND	2.15	0.61
20:2:2801:LHG:H141	20:2:2801:LHG:HC62	1.83	0.61
17:4:171:ASP:CA	27:4:4503:NEX:H10	2.30	0.61
17:4:233:ASP:O	17:4:236:LEU:N	2.33	0.61
21:4:4006:CLA:HAC2	21:4:4013:CLA:C3C	2.30	0.61
21:4:4007:CLA:HED2	21:4:4007:CLA:OBD	2.00	0.61
1:A:434:ARG:CA	1:A:437:ARG:HB2	2.28	0.61
21:A:1131:CLA:H52	21:A:1131:CLA:C9	2.28	0.61
14:1:102:LEU:CD1	21:1:1006:CLA:H2A	2.29	0.61
14:1:190:LEU:HD23	21:1:1002:CLA:HAA1	1.83	0.61
21:1:1001:CLA:H61	21:1:1002:CLA:CAC	2.30	0.61
21:2:2013:CLA:O1D	21:2:2013:CLA:H2A	2.01	0.61
21:3:3011:CLA:CBB	21:3:3011:CLA:HMB1	2.31	0.61
26:4:4501:LUT:H201	26:4:4501:LUT:H35	1.82	0.61
12:L:56:VAL:O	12:L:57:VAL:HG22	2.01	0.61
19:L:6019:BCR:H331	19:L:6019:BCR:HC8	1.81	0.61
13:N:161:LYS:HG3	13:N:167:PHE:CE2	2.34	0.61
26:1:1502:LUT:H192	21:1:1004:CLA:H61	1.83	0.61
21:1:1008:CLA:HHC	21:1:1008:CLA:CBB	2.24	0.61
15:2:118:MET:HB2	26:2:2501:LUT:C34	2.30	0.61
17:4:175:LYS:O	17:4:176:GLN:HG2	2.00	0.61
7:G:74:LEU:HA	7:G:78:VAL:CG1	2.25	0.61
19:L:6019:BCR:C38	19:L:6019:BCR:H23C	2.30	0.61
21:1:1002:CLA:O1D	21:1:1002:CLA:H2A	2.00	0.61
21:2:2002:CLA:H41	21:2:2002:CLA:C8	2.31	0.61
1:A:331:LEU:HD12	21:A:1122:CLA:HED1	1.82	0.61
1:A:549:ILE:O	1:A:553:VAL:HG23	2.00	0.61
21:G:1001:CLA:HMB2	19:G:2011:BCR:C14	2.31	0.61
12:L:56:VAL:O	12:L:57:VAL:HG13	2.01	0.61
21:1:1007:CLA:H71	21:1:1007:CLA:C4	2.14	0.61
16:3:157:TYR:O	16:3:160:PHE:HB3	2.00	0.61
16:3:200:ASN:HD22	16:3:201:PRO:N	1.98	0.61
21:3:3013:CLA:HHC	21:3:3013:CLA:CBB	2.11	0.61
1:A:43:THR:O	1:A:46:LYS:HD2	2.00	0.61
21:A:1129:CLA:CGD	12:L:57:VAL:HG11	2.30	0.61
2:B:292:ARG:NH1	7:G:92:PRO:HB3	2.16	0.61
4:D:147:SER:O	4:D:149:TYR:N	2.33	0.61
21:F:1303:CLA:HMB3	21:4:4004:CLA:H101	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1:1801:LHG:C35	21:4:4015:CLA:HBA1	2.31	0.61
21:2:2006:CLA:HMC2	26:2:2502:LUT:H23	1.82	0.61
17:4:104:MET:HB3	26:4:4501:LUT:H35	1.83	0.61
17:4:171:ASP:HB3	27:4:4503:NEX:C11	2.30	0.61
4:D:130:LEU:HD23	4:D:131:LYS:H	1.65	0.61
5:E:74:VAL:HG12	5:E:125:VAL:O	2.00	0.61
7:G:76:ARG:O	7:G:76:ARG:HD2	2.00	0.61
12:L:163:SER:C	12:L:164:LEU:HD23	2.20	0.61
20:1:1801:LHG:H211	17:4:148:ILE:CG1	2.30	0.61
1:A:605:MET:O	1:A:609:ILE:HD13	2.00	0.61
21:A:1141:CLA:HHC	21:A:1141:CLA:HBB1	1.82	0.61
2:B:655:LEU:HD22	21:B:9022:CLA:H2	1.83	0.61
4:D:92:LEU:HD12	4:D:92:LEU:O	2.01	0.61
19:G:2011:BCR:H331	19:G:2011:BCR:C8	2.30	0.61
12:L:58:GLN:O	12:L:70:GLU:HB2	2.01	0.61
16:3:256:ASN:ND2	21:3:3017:CLA:HMD2	2.16	0.61
14:1:195:PHE:CE2	26:1:1502:LUT:H393	2.36	0.60
17:4:226:VAL:C	17:4:228:GLY:H	2.05	0.60
1:A:327:ILE:HA	1:A:330:ILE:CG2	2.32	0.60
1:A:434:ARG:HD3	21:A:1129:CLA:OBD	2.01	0.60
7:G:76:ARG:NH1	7:G:116:LYS:HZ1	1.99	0.60
14:1:66:LEU:HD22	26:1:1502:LUT:H22	1.82	0.60
14:1:173:ASP:HB2	14:1:176:LYS:HB2	1.83	0.60
16:3:201:PRO:O	16:3:212:LEU:HD23	2.00	0.60
16:3:207:PRO:HB2	16:3:208:PHE:HD1	1.65	0.60
21:3:3008:CLA:H171	21:3:3008:CLA:H101	1.83	0.60
2:B:60:TRP:HB2	21:B:1205:CLA:H202	1.82	0.60
21:B:1240:CLA:HBC3	21:B:1240:CLA:HHD	1.82	0.60
21:2:2002:CLA:HBA1	26:2:2501:LUT:C34	2.31	0.60
21:A:1130:CLA:CED	2:B:680:TRP:HH2	2.14	0.60
4:D:134:ARG:O	4:D:135:LYS:HB3	2.00	0.60
4:D:199:ILE:CD1	4:D:201:VAL:HG22	2.25	0.60
5:E:65:PRO:C	5:E:66:ILE:HG13	2.21	0.60
14:1:131:LEU:CG	14:1:135:LEU:HD11	2.30	0.60
17:4:227:THR:HG21	17:4:234:ASN:ND2	2.16	0.60
1:A:474:GLN:H	1:A:474:GLN:CD	2.02	0.60
21:A:9012:CLA:CED	2:B:620:LEU:HD13	2.32	0.60
12:L:109:PHE:CE1	21:L:1503:CLA:HMC3	2.37	0.60
14:1:88:MET:HE1	21:1:1001:CLA:CHC	2.31	0.60
16:3:173:ARG:CG	16:3:173:ARG:HH11	2.15	0.60
17:4:242:PRO:HA	17:4:245:ASN:OD1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:201:SER:O	1:A:205:HIS:ND1	2.26	0.60
21:B:1217:CLA:HAB	19:G:2011:BCR:H373	1.84	0.60
21:B:1227:CLA:HBB1	21:B:1240:CLA:H142	1.84	0.60
21:F:1303:CLA:HBA2	21:F:1303:CLA:HED2	1.78	0.60
21:G:1002:CLA:H2A	21:G:1002:CLA:O1A	2.01	0.60
12:L:171:LYS:C	12:L:172:GLN:HE21	2.04	0.60
12:L:203:LEU:HD12	12:L:203:LEU:N	2.16	0.60
14:1:192:LEU:HD22	26:1:1502:LUT:H35	1.84	0.60
21:1:1001:CLA:H41	21:1:1002:CLA:HAC2	1.84	0.60
15:2:89:PHE:CD2	21:2:2009:CLA:CBB	2.85	0.60
16:3:208:PHE:HB3	21:3:3001:CLA:CGD	2.31	0.60
17:4:227:THR:HB	17:4:234:ASN:HD21	1.67	0.60
1:A:361:ASN:ND2	21:A:1103:CLA:OBD	2.33	0.60
19:A:6011:BCR:H312	21:B:1229:CLA:HMB3	1.83	0.60
2:B:73:ASN:O	2:B:75:GLU:N	2.33	0.60
7:G:114:LEU:HD21	7:G:116:LYS:HB3	1.84	0.60
21:G:1001:CLA:HHC	21:G:1001:CLA:CBB	2.32	0.60
13:N:160:PHE:CG	13:N:161:LYS:HA	2.35	0.60
13:N:166:VAL:HG13	13:N:166:VAL:O	2.01	0.60
20:2:2801:LHG:H122	20:2:2801:LHG:C25	2.30	0.60
1:A:746:THR:O	1:A:749:PHE:N	2.35	0.60
21:A:1128:CLA:H2A	21:A:1128:CLA:CED	2.32	0.60
8:H:114:LEU:HD13	9:I:8:PHE:CD1	2.36	0.60
12:L:60:ILE:HG23	12:L:60:ILE:O	2.02	0.60
12:L:194:ILE:O	12:L:198:ILE:HG13	2.02	0.60
14:1:134:ILE:HD13	21:1:1013:CLA:HBD	1.84	0.60
14:1:170:TYR:CD2	14:1:180:TYR:HE2	2.19	0.60
21:1:1009:CLA:H122	21:1:1009:CLA:C9	2.16	0.60
15:2:94:LEU:HB3	15:2:96:LEU:CD2	2.31	0.60
21:2:2009:CLA:HED1	16:3:169:PHE:HZ	1.66	0.60
16:3:173:ARG:NH1	16:3:173:ARG:HG2	2.15	0.60
17:4:217:PHE:CE1	26:4:4502:LUT:C39	2.85	0.60
7:G:114:LEU:HG	7:G:116:LYS:N	2.15	0.60
12:L:122:ASN:O	12:L:123:THR:HG23	2.00	0.60
14:1:154:ASP:O	14:1:157:LYS:N	2.35	0.60
17:4:227:THR:O	17:4:227:THR:HG22	2.01	0.60
21:4:4004:CLA:H11	26:4:4502:LUT:H162	1.83	0.60
2:B:377:TYR:CD2	21:B:1224:CLA:HAB	2.36	0.60
6:F:202:LEU:HD12	6:F:205:ARG:CA	2.30	0.60
15:2:87:GLY:O	21:2:2004:CLA:HED1	2.00	0.60
15:2:161:VAL:CG1	15:2:165:PHE:CE2	2.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:90:PHE:HE2	1:A:178:MET:HE2	1.66	0.59
1:A:609:ILE:H	1:A:609:ILE:CD1	2.15	0.59
14:1:195:PHE:CD1	26:1:1502:LUT:C40	2.85	0.59
15:2:91:PHE:O	15:2:92:ASP:HB2	2.02	0.59
17:4:169:ASN:HB3	27:4:4503:NEX:H171	1.84	0.59
17:4:217:PHE:CG	26:4:4502:LUT:C40	2.85	0.59
14:1:105:TRP:NE1	14:1:202:GLN:HG3	2.17	0.59
21:1:1009:CLA:HHD	27:4:4503:NEX:C11	2.32	0.59
16:3:256:ASN:ND2	21:3:3003:CLA:HAC1	2.17	0.59
21:4:4004:CLA:O2A	26:4:4502:LUT:H163	2.02	0.59
1:A:441:ALA:CB	21:A:1130:CLA:HED1	2.32	0.59
2:B:173:SER:OG	21:B:1209:CLA:CED	2.45	0.59
2:B:173:SER:CB	21:B:1209:CLA:HED1	2.32	0.59
21:B:1206:CLA:CMA	21:B:1207:CLA:HBB1	2.33	0.59
12:L:109:PHE:CE1	21:L:1503:CLA:CMC	2.85	0.59
21:L:1503:CLA:HBD	21:L:1503:CLA:CBA	2.32	0.59
14:1:94:ILE:HG23	26:1:1502:LUT:C38	2.31	0.59
19:A:6011:BCR:H333	21:A:9013:CLA:H142	1.83	0.59
2:B:295:PHE:CD2	21:B:1217:CLA:HBD	2.37	0.59
4:D:199:ILE:C	4:D:199:ILE:HD12	2.23	0.59
7:G:99:THR:HG23	7:G:100:HIS:H	1.65	0.59
7:G:114:LEU:HD11	7:G:116:LYS:HB3	1.85	0.59
12:L:120:LEU:CB	12:L:126:ALA:HB3	2.32	0.59
14:1:85:ARG:HE	21:1:1001:CLA:C4C	2.15	0.59
16:3:157:TYR:CE1	21:3:3010:CLA:CBC	2.86	0.59
21:4:4014:CLA:HBB1	21:4:4014:CLA:CHC	2.17	0.59
7:G:74:LEU:HD12	7:G:78:VAL:CG1	2.32	0.59
12:L:204:LEU:CA	12:L:207:LEU:HG	2.17	0.59
21:1:1006:CLA:CHB	21:1:1013:CLA:C2	2.80	0.59
1:A:266:ALA:HB2	21:3:3017:CLA:H3A	1.84	0.59
21:A:1132:CLA:HBC2	21:A:1132:CLA:HHD	1.83	0.59
2:B:236:ASN:HB3	2:B:252:THR:OG1	2.03	0.59
2:B:292:ARG:HH22	7:G:107:ARG:HH22	1.49	0.59
2:B:524:ALA:O	2:B:528:HIS:ND1	2.35	0.59
15:2:103:LEU:O	15:2:107:VAL:HG23	2.02	0.59
20:2:2801:LHG:H141	20:2:2801:LHG:C6	2.33	0.59
1:A:41:SER:HB3	1:A:44:ILE:CG1	2.32	0.59
1:A:42:ARG:HD2	1:A:43:THR:N	2.16	0.59
21:A:1118:CLA:HMB3	11:K:102:THR:HG23	1.84	0.59
18:B:5002:PQN:H162	21:B:1238:CLA:HAB	1.85	0.59
6:F:185:ILE:HD12	6:F:194:LYS:HG2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:121:ARG:H	12:L:122:ASN:HB2	1.63	0.59
13:N:161:LYS:CD	13:N:168:TRP:HZ3	2.15	0.59
14:1:82:ILE:HD13	21:1:1012:CLA:CAD	2.33	0.59
21:4:4004:CLA:HMB1	21:4:4004:CLA:CBB	2.15	0.59
19:A:6008:BCR:H352	21:A:1125:CLA:HED1	1.84	0.59
4:D:107:SER:OG	4:D:109:LYS:O	2.20	0.59
4:D:130:LEU:HD22	4:D:132:LEU:HG	1.84	0.59
12:L:155:GLU:HB2	12:L:156:GLY:CA	2.33	0.59
13:N:161:LYS:CE	13:N:168:TRP:CZ3	2.86	0.59
14:1:102:LEU:HD12	21:1:1006:CLA:H2A	1.85	0.59
14:1:187:ASN:O	14:1:190:LEU:HB3	2.03	0.59
15:2:65:GLU:HG3	15:2:68:ARG:HG3	1.83	0.59
16:3:210:ASN:HB3	21:3:3001:CLA:HBD	1.83	0.59
17:4:156:ILE:HG13	17:4:157:ARG:N	2.18	0.59
17:4:238:HIS:CD2	21:4:4003:CLA:CED	2.85	0.59
21:4:4004:CLA:H3A	21:4:4004:CLA:CGA	2.32	0.59
21:A:1131:CLA:H71	18:B:5002:PQN:H202	1.84	0.59
5:E:92:THR:OG1	5:E:93:VAL:N	2.36	0.59
6:F:200:VAL:HG23	6:F:200:VAL:O	2.02	0.59
21:L:1503:CLA:HBA1	21:L:1503:CLA:CBD	2.33	0.59
14:1:149:ARG:HD3	21:1:1011:CLA:C1D	2.33	0.59
14:1:195:PHE:CE2	26:1:1502:LUT:C39	2.85	0.59
15:2:155:THR:CA	15:2:158:LEU:HG	2.33	0.59
16:3:210:ASN:O	16:3:214:PHE:HD2	1.86	0.59
21:4:4001:CLA:H61	21:4:4002:CLA:H42	1.84	0.59
1:A:687:ALA:O	21:A:9013:CLA:HAB	2.03	0.59
21:A:1120:CLA:HAB	21:A:1141:CLA:HBB1	1.85	0.59
6:F:198:ILE:C	10:J:10:VAL:HG11	2.22	0.59
10:J:11:ALA:CB	10:J:12:PRO:HD2	2.33	0.59
12:L:154:ASN:OD1	12:L:154:ASN:N	2.30	0.59
21:1:1006:CLA:C1B	21:1:1013:CLA:C3	2.81	0.59
21:1:1006:CLA:CHB	21:1:1013:CLA:C3	2.80	0.59
21:1:1009:CLA:HAA1	21:1:1009:CLA:CBD	2.26	0.59
15:2:118:MET:HG2	15:2:119:LEU:H	1.68	0.59
15:2:153:THR:OG1	17:4:243:TRP:CZ3	2.48	0.59
21:2:2009:CLA:HBC1	21:3:3009:CLA:CBA	2.33	0.59
1:A:57:LEU:HD11	21:A:1101:CLA:HBC2	1.84	0.58
14:1:82:ILE:HG23	14:1:83:HIS:N	2.18	0.58
26:1:1501:LUT:H393	21:1:1001:CLA:C3	2.32	0.58
16:3:201:PRO:HB2	16:3:212:LEU:HD22	1.83	0.58
21:4:4004:CLA:H171	21:4:4004:CLA:C14	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:ILE:HG21	2:B:446:PHE:HA	1.83	0.58
1:A:683:HIS:CE1	1:A:745:THR:CG2	2.86	0.58
21:A:1120:CLA:HAB	21:A:1141:CLA:CBB	2.33	0.58
21:A:1125:CLA:HBB1	21:A:1133:CLA:C3A	2.33	0.58
2:B:12:LEU:HD13	24:B:7101:DGD:HE1	1.83	0.58
5:E:103:VAL:O	5:E:103:VAL:HG12	2.03	0.58
14:1:195:PHE:CD2	26:1:1502:LUT:H403	2.38	0.58
16:3:214:PHE:CE2	21:3:3001:CLA:CAD	2.86	0.58
17:4:151:PHE:CE2	21:4:4012:CLA:HMC3	2.38	0.58
17:4:243:TRP:CD1	21:4:4008:CLA:CMA	2.85	0.58
1:A:341:GLN:N	1:A:341:GLN:OE1	2.36	0.58
21:G:1001:CLA:HMB2	19:G:2011:BCR:C15	2.33	0.58
8:H:119:THR:O	8:H:120:THR:HG23	2.03	0.58
11:K:73:ALA:N	11:K:74:PRO:HD3	2.18	0.58
12:L:130:GLY:O	12:L:133:ALA:N	2.36	0.58
21:1:1009:CLA:C4D	21:4:4005:CLA:CAC	2.81	0.58
17:4:110:MET:CE	17:4:217:PHE:CD1	2.85	0.58
17:4:163:LYS:NZ	21:4:4005:CLA:O1D	2.29	0.58
21:4:4003:CLA:NC	21:4:4003:CLA:H42	2.18	0.58
1:A:347:TYR:O	1:A:351:THR:OG1	2.17	0.58
19:B:6004:BCR:H372	19:G:2011:BCR:H272	1.83	0.58
4:D:100:PHE:CZ	4:D:158:VAL:CG1	2.86	0.58
14:1:79:SER:HA	21:1:1012:CLA:HED2	1.85	0.58
14:1:105:TRP:HB2	26:1:1502:LUT:H24	1.84	0.58
15:2:89:PHE:CE2	21:2:2009:CLA:CBB	2.85	0.58
16:3:170:ALA:O	16:3:172:HIS:N	2.37	0.58
17:4:110:MET:HB3	26:4:4502:LUT:H383	1.83	0.58
12:L:121:ARG:CB	12:L:122:ASN:HB2	2.32	0.58
13:N:96:LYS:O	13:N:98:ASN:N	2.37	0.58
13:N:139:LYS:HE2	13:N:140:GLN:HB2	1.85	0.58
13:N:160:PHE:CD1	13:N:161:LYS:CA	2.86	0.58
26:1:1502:LUT:C17	21:1:1004:CLA:H71	2.33	0.58
21:1:1008:CLA:O1D	17:4:145:ILE:HD11	2.03	0.58
15:2:152:PHE:HB3	17:4:243:TRP:HZ3	1.67	0.58
21:2:2009:CLA:HBC3	21:3:3009:CLA:HBA1	1.83	0.58
16:3:164:MET:HE1	21:3:3012:CLA:CBC	2.33	0.58
16:3:214:PHE:CZ	21:3:3001:CLA:C4D	2.86	0.58
4:D:77:PRO:CD	4:D:78:ASN:H	2.16	0.58
21:1:1004:CLA:C9	21:1:1005:CLA:HMA1	2.27	0.58
16:3:160:PHE:CZ	16:3:164:MET:HG3	2.36	0.58
17:4:95:ALA:HB2	21:4:4012:CLA:HED1	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4:103:ALA:HA	26:4:4502:LUT:H403	1.85	0.58
17:4:199:THR:HA	17:4:200:LEU:CB	2.33	0.58
1:A:205:HIS:CG	21:A:1111:CLA:HMC2	2.39	0.58
1:A:331:LEU:CD1	21:A:1122:CLA:HED1	2.33	0.58
2:B:501:ILE:HA	2:B:508:LEU:HD22	1.86	0.58
21:B:1203:CLA:H13	21:B:1225:CLA:HBB2	1.84	0.58
8:H:73:TYR:O	8:H:75:SER:N	2.36	0.58
12:L:120:LEU:HD23	12:L:120:LEU:N	2.18	0.58
12:L:176:LEU:HD12	12:L:176:LEU:C	2.23	0.58
21:1:1005:CLA:H52	21:1:1005:CLA:C9	2.21	0.58
21:1:1006:CLA:O1A	21:1:1014:CLA:HBC2	2.02	0.58
21:1:1008:CLA:HBB1	21:1:1008:CLA:CHC	2.17	0.58
15:2:232:ARG:NH2	21:2:2004:CLA:HED2	2.16	0.58
16:3:242:TYR:HD1	16:3:242:TYR:H	1.51	0.58
21:4:4014:CLA:HBD	21:4:4014:CLA:HAA1	1.85	0.58
4:D:166:TYR:HE1	4:D:170:LYS:CA	2.13	0.58
12:L:155:GLU:CB	12:L:156:GLY:HA2	2.31	0.58
21:1:1004:CLA:H92	21:1:1005:CLA:CMA	2.27	0.58
15:2:124:ILE:CD1	26:2:2501:LUT:H172	2.33	0.58
15:2:257:PHE:CE1	21:2:2008:CLA:C4	2.86	0.58
17:4:172:PRO:HG2	17:4:173:ILE:N	2.18	0.58
2:B:15:ASP:HB3	2:B:20:ARG:HB3	1.85	0.58
26:1:1502:LUT:C22	21:1:1006:CLA:HAB	2.27	0.58
21:3:3011:CLA:HBB1	21:3:3011:CLA:CMB	2.34	0.58
1:A:662:SER:O	1:A:666:GLN:HG3	2.04	0.58
5:E:74:VAL:CG2	5:E:90:VAL:HG13	2.34	0.58
7:G:140:LEU:HD23	7:G:141:THR:CA	2.34	0.58
25:G:2021:LMG:O2	25:G:2021:LMG:HC91	2.04	0.58
12:L:114:PHE:HZ	12:L:137:LEU:HD22	1.69	0.58
19:L:6019:BCR:H402	21:L:1502:CLA:HAC2	1.86	0.58
14:1:131:LEU:O	14:1:135:LEU:HG	2.03	0.58
21:1:1013:CLA:HMA2	21:1:1013:CLA:CGA	2.34	0.58
21:3:3001:CLA:HHC	21:3:3001:CLA:HBB1	1.85	0.58
17:4:60:GLY:O	17:4:62:ALA:N	2.31	0.58
17:4:83:ALA:HB1	17:4:89:LEU:HG	1.86	0.58
21:4:4003:CLA:H72	21:4:4003:CLA:C4	2.33	0.58
1:A:660:GLN:HG2	1:A:753:ARG:CZ	2.33	0.57
2:B:98:GLN:NE2	8:H:127:PRO:O	2.37	0.57
4:D:129:LEU:HD13	4:D:130:LEU:N	2.18	0.57
21:G:1001:CLA:C4	19:G:2011:BCR:H343	2.28	0.57
13:N:161:LYS:HE3	13:N:168:TRP:HZ3	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1:1009:CLA:H52	21:4:4005:CLA:CMD	2.34	0.57
21:4:4011:CLA:H122	21:4:4011:CLA:H72	1.86	0.57
1:A:281:LEU:HD13	1:A:301:HIS:CG	2.39	0.57
1:A:288:ASP:HB3	1:A:291:THR:HG22	1.86	0.57
2:B:355:LEU:HD13	21:B:1214:CLA:HAA2	1.86	0.57
12:L:165:THR:OG1	12:L:166:LEU:N	2.37	0.57
26:1:1502:LUT:H181	26:1:1502:LUT:H8	1.85	0.57
21:1:1006:CLA:NB	21:1:1013:CLA:H43	2.19	0.57
17:4:78:ASP:OD2	17:4:81:GLY:HA2	2.04	0.57
17:4:95:ALA:HB2	21:4:4012:CLA:HED2	1.85	0.57
17:4:110:MET:HG2	26:4:4502:LUT:H383	1.86	0.57
21:4:4001:CLA:H3A	21:4:4001:CLA:O1A	2.04	0.57
1:A:750:PHE:O	1:A:754:ILE:HG13	2.03	0.57
12:L:121:ARG:HH11	12:L:121:ARG:CG	2.15	0.57
16:3:119:GLY:HA3	21:3:3006:CLA:HBB1	1.86	0.57
14:1:142:ILE:O	21:1:1012:CLA:HBB1	2.05	0.57
21:2:2011:CLA:HAA1	21:2:2011:CLA:CBD	2.34	0.57
17:4:217:PHE:CD1	26:4:4502:LUT:C40	2.86	0.57
1:A:608:SER:OG	1:A:609:ILE:HD12	2.04	0.57
1:A:696:GLY:HA3	2:B:568:CYS:HB2	1.87	0.57
2:B:700:LEU:HD21	18:B:5002:PQN:H151	1.85	0.57
21:B:1213:CLA:HBC2	21:B:1214:CLA:HMC2	1.86	0.57
21:B:9010:CLA:HMB3	21:B:9022:CLA:CAD	2.35	0.57
21:1:1006:CLA:HBB1	21:1:1006:CLA:CHC	2.33	0.57
17:4:186:TYR:N	17:4:186:TYR:CD1	2.73	0.57
12:L:121:ARG:HB2	12:L:122:ASN:HB2	1.87	0.57
14:1:143:ALA:HA	21:1:1012:CLA:HBB1	1.85	0.57
14:1:158:LYS:C	14:1:159:LYS:HG3	2.25	0.57
21:1:1001:CLA:HBB1	21:1:1001:CLA:HMB1	1.87	0.57
15:2:259:HIS:CD2	21:2:2003:CLA:HBC3	2.40	0.57
17:4:213:ALA:O	17:4:216:ALA:HB3	2.04	0.57
7:G:98:GLY:O	7:G:99:THR:HG22	2.04	0.57
21:1:1002:CLA:HBC3	21:1:1002:CLA:CMC	2.27	0.57
21:1:1003:CLA:O2A	21:1:1008:CLA:HED1	2.04	0.57
20:1:1801:LHG:HC61	20:1:1801:LHG:O9	2.03	0.57
17:4:197:ALA:HB1	17:4:199:THR:HG22	1.86	0.57
21:4:4010:CLA:O1A	21:4:4010:CLA:H3A	2.05	0.57
19:A:6017:BCR:C14	21:B:9023:CLA:H203	2.35	0.57
21:A:1102:CLA:HBA2	21:A:1109:CLA:H71	1.87	0.57
23:A:9011:CL0:H3	23:A:9011:CL0:H24	1.87	0.57
2:B:411:MET:HE3	21:B:1227:CLA:CHD	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:198:PRO:CA	4:D:199:ILE:HG23	2.35	0.57
4:D:198:PRO:CB	4:D:199:ILE:HG13	2.35	0.57
4:D:198:PRO:HB2	4:D:199:ILE:O	2.04	0.57
7:G:101:PHE:N	7:G:101:PHE:CD1	2.72	0.57
12:L:159:SER:H	12:L:178:THR:CG2	2.13	0.57
21:1:1003:CLA:C5	20:1:1801:LHG:H191	2.35	0.57
15:2:99:ASP:OD1	15:2:102:SER:OG	2.21	0.57
21:2:2010:CLA:HMC3	21:2:2013:CLA:HHC	1.86	0.57
16:3:204:PRO:HG2	16:3:209:PHE:HB3	1.87	0.57
21:3:3013:CLA:HBB1	21:3:3013:CLA:CHC	2.08	0.57
17:4:190:ILE:CB	21:4:4014:CLA:CGA	2.83	0.57
17:4:217:PHE:HE1	26:4:4502:LUT:C39	2.17	0.57
19:B:6004:BCR:HC31	21:B:1218:CLA:O2A	2.04	0.57
4:D:97:VAL:O	4:D:97:VAL:HG12	2.04	0.57
5:E:75:LYS:HB3	5:E:125:VAL:HG23	1.86	0.57
14:1:170:TYR:CD1	14:1:170:TYR:N	2.73	0.57
14:1:209:GLY:O	14:1:212:GLU:N	2.38	0.57
15:2:226:LYS:CB	21:2:2007:CLA:CED	2.71	0.57
21:2:2002:CLA:HMC2	21:2:2007:CLA:C4C	2.34	0.57
17:4:210:GLY:O	17:4:214:MET:HG3	2.05	0.57
21:4:4008:CLA:H12	21:4:4008:CLA:C3A	2.33	0.57
1:A:515:TRP:CH2	21:A:1125:CLA:HMC3	2.40	0.57
7:G:74:LEU:C	7:G:78:VAL:HG12	2.24	0.57
7:G:117:SER:O	7:G:118:ALA:HB2	2.04	0.57
14:1:143:ALA:CA	21:1:1012:CLA:CBB	2.82	0.57
16:3:171:GLU:O	16:3:174:ARG:HG3	2.05	0.57
17:4:110:MET:SD	26:4:4502:LUT:C38	2.93	0.57
17:4:169:ASN:CA	17:4:178:SER:HB2	2.26	0.57
21:A:9012:CLA:H61	2:B:438:VAL:HG13	1.87	0.56
4:D:199:ILE:HD12	4:D:199:ILE:O	2.04	0.56
7:G:141:THR:HG21	25:G:2021:LMG:HC72	1.82	0.56
16:3:164:MET:SD	21:3:3012:CLA:CBC	2.93	0.56
21:B:1226:CLA:H91	21:B:1226:CLA:C12	2.30	0.56
21:B:9010:CLA:CAB	21:B:9022:CLA:HED2	2.35	0.56
8:H:84:LEU:HD12	8:H:84:LEU:O	2.05	0.56
14:1:143:ALA:HA	21:1:1012:CLA:CBB	2.36	0.56
14:1:218:LEU:HB2	14:1:221:PRO:HD3	1.87	0.56
21:1:1002:CLA:HMB2	21:1:1007:CLA:C4D	2.35	0.56
21:1:1013:CLA:H92	21:1:1013:CLA:O1D	2.04	0.56
21:2:2002:CLA:CBA	26:2:2501:LUT:C34	2.83	0.56
16:3:184:MET:HE1	16:3:184:MET:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:PHE:CZ	1:A:462:ILE:HD11	2.40	0.56
21:A:1132:CLA:CBC	21:B:1206:CLA:CBB	2.78	0.56
2:B:80:ASP:O	2:B:84:VAL:HG12	2.05	0.56
20:B:7004:LHG:O2	14:1:66:LEU:HD12	2.05	0.56
21:B:1220:CLA:HMA1	21:B:1240:CLA:O2D	2.05	0.56
4:D:79:THR:HG21	4:D:129:LEU:HB2	1.86	0.56
4:D:105:TRP:O	4:D:128:ASN:HB2	2.06	0.56
21:F:1303:CLA:HMB2	26:4:4502:LUT:H202	1.88	0.56
12:L:54:TYR:CE1	12:L:55:GLN:NE2	2.73	0.56
12:L:61:ASN:CG	12:L:166:LEU:HD11	2.26	0.56
12:L:130:GLY:O	12:L:133:ALA:HB3	2.05	0.56
21:L:1503:CLA:HBA1	21:L:1503:CLA:HBD	1.86	0.56
13:N:151:GLU:O	13:N:152:LEU:HG	2.05	0.56
21:1:1004:CLA:HBB1	21:1:1004:CLA:CMB	2.11	0.56
21:1:1006:CLA:CMB	21:1:1013:CLA:H2	2.32	0.56
21:1:1008:CLA:H2A	17:4:145:ILE:HD11	1.87	0.56
21:1:1009:CLA:HMC1	21:1:1009:CLA:CBC	2.30	0.56
21:1:1009:CLA:HHC	21:1:1009:CLA:HBB1	1.86	0.56
21:2:2003:CLA:CBB	26:2:2501:LUT:H42	2.35	0.56
20:2:2801:LHG:O10	20:2:2801:LHG:H161	2.05	0.56
16:3:160:PHE:CE1	16:3:164:MET:CE	2.85	0.56
19:B:6010:BCR:H19C	21:B:1223:CLA:H71	1.85	0.56
6:F:109:TYR:O	6:F:110:ALA:HB3	2.05	0.56
13:N:164:SER:O	13:N:165:ASN:ND2	2.38	0.56
14:1:105:TRP:CH2	21:1:1010:CLA:O2D	2.59	0.56
14:1:142:ILE:HD13	21:1:1013:CLA:HMC2	1.86	0.56
26:1:1502:LUT:C12	21:1:1004:CLA:HMC2	2.35	0.56
21:1:1009:CLA:CMB	21:4:4015:CLA:CAD	2.83	0.56
21:2:2002:CLA:HMB2	26:2:2501:LUT:H191	1.87	0.56
21:2:2005:CLA:CBC	21:2:2012:CLA:HBC1	2.28	0.56
17:4:160:GLN:HG2	21:4:4005:CLA:CED	2.35	0.56
7:G:95:ASN:HB3	7:G:96:GLY:HA3	1.87	0.56
14:1:145:VAL:O	14:1:146:GLU:HB2	2.05	0.56
14:1:195:PHE:CG	26:1:1502:LUT:H403	2.40	0.56
21:2:2014:CLA:CGA	21:2:2014:CLA:C3A	2.84	0.56
16:3:173:ARG:HB3	21:3:3011:CLA:CBC	2.36	0.56
16:3:253:PRO:HA	21:3:3003:CLA:HMC2	1.88	0.56
17:4:171:ASP:CB	27:4:4503:NEX:C10	2.83	0.56
21:4:4001:CLA:H62	26:4:4501:LUT:H373	1.84	0.56
21:4:4011:CLA:HMB1	21:4:4011:CLA:CBB	2.11	0.56
2:B:194:LEU:HA	2:B:198:ALA:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:262:HIS:HE1	2:B:264:GLN:HB3	1.70	0.56
12:L:108:PHE:HD1	12:L:200:ALA:HB2	1.69	0.56
16:3:206:GLY:HA2	16:3:209:PHE:CE2	2.40	0.56
17:4:110:MET:HE2	26:4:4502:LUT:H393	1.87	0.56
17:4:160:GLN:HG2	21:4:4005:CLA:HED1	1.87	0.56
21:4:4015:CLA:HHC	21:4:4015:CLA:CBB	2.36	0.56
21:A:1128:CLA:H2A	21:A:1128:CLA:HED2	1.87	0.56
21:A:1131:CLA:HMA1	19:I:6018:BCR:HC32	1.87	0.56
4:D:77:PRO:HG2	4:D:78:ASN:H	1.69	0.56
7:G:101:PHE:N	7:G:101:PHE:HD1	2.04	0.56
12:L:120:LEU:HB3	12:L:123:THR:OG1	2.06	0.56
14:1:217:HIS:C	14:1:218:LEU:HG	2.25	0.56
15:2:96:LEU:HD23	15:2:96:LEU:N	2.19	0.56
21:2:2002:CLA:H62	26:2:2501:LUT:C28	2.36	0.56
16:3:112:PHE:HZ	21:3:3012:CLA:CGD	2.18	0.56
17:4:186:TYR:HB3	21:4:4001:CLA:O2D	2.06	0.56
2:B:523:ILE:HD13	21:B:1234:CLA:HAB	1.88	0.56
21:H:1000:CLA:HMB2	21:L:1501:CLA:CAA	2.32	0.56
12:L:85:ASN:O	12:L:86:LEU:HB2	2.06	0.56
12:L:109:PHE:CE2	21:L:1502:CLA:HMB3	2.41	0.56
26:1:1502:LUT:C28	26:1:1502:LUT:H361	2.36	0.56
21:2:2010:CLA:H2A	21:2:2010:CLA:O1D	2.04	0.56
16:3:206:GLY:CA	16:3:209:PHE:CZ	2.86	0.56
17:4:199:THR:CA	17:4:200:LEU:CB	2.84	0.56
2:B:167:TRP:CZ2	21:B:1208:CLA:HMA1	2.41	0.56
2:B:351:HIS:ND1	21:B:1214:CLA:OBD	2.31	0.56
21:B:1222:CLA:H191	21:B:1227:CLA:H203	1.86	0.56
7:G:91:VAL:HB	7:G:92:PRO:HA	1.87	0.56
7:G:116:LYS:HG2	21:G:1002:CLA:CHB	2.36	0.56
12:L:51:LYS:HG3	12:L:51:LYS:O	2.06	0.56
17:4:110:MET:HE1	26:4:4502:LUT:C39	2.36	0.56
17:4:149:LEU:HB2	27:4:4503:NEX:C36	2.36	0.56
1:A:514:THR:HA	1:A:531:PRO:HA	1.88	0.56
21:A:9012:CLA:HAB	2:B:582:TRP:CH2	2.40	0.56
7:G:107:ARG:CA	7:G:108:ALA:CB	2.83	0.56
12:L:61:ASN:OD1	12:L:166:LEU:HD21	2.05	0.56
15:2:230:ASN:OD1	15:2:231:GLY:N	2.39	0.56
15:2:252:PRO:HD2	15:2:253:ILE:HD12	1.87	0.56
21:2:2006:CLA:CBA	21:2:2013:CLA:CAD	2.84	0.56
17:4:104:MET:HE3	21:4:4001:CLA:CMC	2.36	0.56
17:4:110:MET:CB	26:4:4502:LUT:H383	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:62:THR:HB	11:K:104:ALA:HB1	1.87	0.55
14:1:88:MET:CE	21:1:1001:CLA:HMC3	2.36	0.55
14:1:88:MET:HE1	21:1:1001:CLA:HHC	1.86	0.55
21:1:1013:CLA:O2D	21:1:1013:CLA:H12	2.06	0.55
15:2:172:ARG:HD3	21:2:2011:CLA:HMC3	1.88	0.55
21:2:2002:CLA:HMA2	21:2:2002:CLA:O1A	2.05	0.55
21:2:2011:CLA:CBB	21:2:2011:CLA:HHC	2.35	0.55
21:3:3010:CLA:H12	21:3:3010:CLA:C3D	2.36	0.55
21:3:3013:CLA:O2D	21:3:3013:CLA:H11	2.06	0.55
1:A:685:VAL:HG21	19:A:6011:BCR:H362	1.86	0.55
21:B:9010:CLA:HBC3	21:B:9010:CLA:CHD	2.23	0.55
5:E:119:ASN:N	5:E:119:ASN:OD1	2.39	0.55
12:L:144:CYS:HB3	19:L:6019:BCR:C19	2.36	0.55
21:1:1013:CLA:HBB1	21:1:1013:CLA:CHC	2.20	0.55
20:1:1801:LHG:H352	21:4:4015:CLA:CBA	2.36	0.55
21:2:2002:CLA:H62	26:2:2501:LUT:C36	2.36	0.55
26:2:2502:LUT:H28	26:2:2502:LUT:C37	2.34	0.55
17:4:247:ILE:HB	21:4:4003:CLA:CAD	2.36	0.55
21:4:4001:CLA:H101	21:4:4002:CLA:H43	1.89	0.55
1:A:408:VAL:HG11	1:A:602:LEU:HD13	1.87	0.55
21:A:1102:CLA:H2	21:A:1109:CLA:H43	1.87	0.55
7:G:65:SER:CA	7:G:68:THR:HG22	2.37	0.55
7:G:114:LEU:CG	7:G:116:LYS:HB3	2.35	0.55
21:1:1009:CLA:H122	21:1:1009:CLA:H71	1.89	0.55
21:2:2002:CLA:C6	26:2:2501:LUT:H362	2.35	0.55
21:4:4015:CLA:HBB1	21:4:4015:CLA:CHC	2.37	0.55
21:B:1210:CLA:H151	21:B:1225:CLA:HMD2	1.89	0.55
7:G:114:LEU:HD13	7:G:119:ALA:O	2.07	0.55
26:1:1501:LUT:C17	21:1:1003:CLA:C2B	2.84	0.55
21:2:2010:CLA:C1C	21:2:2013:CLA:HMC3	2.36	0.55
16:3:108:ILE:CG2	21:3:3011:CLA:HBB1	2.36	0.55
16:3:237:LEU:HA	16:3:240:LEU:HB3	1.87	0.55
19:G:2011:BCR:C23	19:G:2011:BCR:C40	2.85	0.55
13:N:113:ASN:O	13:N:115:ALA:N	2.38	0.55
26:1:1502:LUT:H361	26:1:1502:LUT:H28	1.87	0.55
21:1:1009:CLA:O1A	21:4:4005:CLA:HAC2	2.06	0.55
15:2:118:MET:HG2	15:2:119:LEU:HD13	1.89	0.55
17:4:110:MET:CG	26:4:4502:LUT:C38	2.85	0.55
21:4:4006:CLA:CBC	21:4:4013:CLA:C4C	2.85	0.55
13:N:161:LYS:CD	13:N:168:TRP:CZ3	2.90	0.55
15:2:119:LEU:O	15:2:122:ALA:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2:155:THR:N	15:2:158:LEU:HD21	2.19	0.55
21:2:2009:CLA:HED1	16:3:169:PHE:CZ	2.41	0.55
21:2:2010:CLA:HAA2	21:2:2010:CLA:H12	1.89	0.55
26:2:2501:LUT:H171	26:2:2501:LUT:C8	2.37	0.55
21:4:4005:CLA:C2A	21:4:4005:CLA:CGD	2.84	0.55
21:4:4013:CLA:HBC2	21:4:4013:CLA:HMC1	1.87	0.55
14:1:94:ILE:CG2	26:1:1502:LUT:C24	2.84	0.55
21:2:2005:CLA:CBC	21:2:2012:CLA:CBC	2.85	0.55
20:2:2801:LHG:H122	20:2:2801:LHG:H252	1.88	0.55
17:4:149:LEU:CB	27:4:4503:NEX:C36	2.85	0.55
17:4:238:HIS:CD2	21:4:4003:CLA:HED3	2.42	0.55
21:4:4001:CLA:HAB	26:4:4501:LUT:C40	2.37	0.55
21:4:4003:CLA:C4	21:4:4003:CLA:C7	2.85	0.55
21:4:4014:CLA:CGA	21:4:4014:CLA:C3A	2.85	0.55
1:A:48:PRO:HG2	6:F:192:THR:HB	1.89	0.55
21:A:1130:CLA:O1A	2:B:686:PRO:CG	2.54	0.55
2:B:619:TRP:O	2:B:623:TYR:HB3	2.06	0.55
10:J:2:ARG:HH22	21:2:2005:CLA:H43	1.71	0.55
21:1:1001:CLA:C4	21:1:1002:CLA:CAC	2.85	0.55
15:2:172:ARG:CD	21:2:2011:CLA:HMC3	2.36	0.55
21:2:2002:CLA:O1A	21:2:2002:CLA:H2A	2.07	0.55
21:3:3001:CLA:CBC	21:3:3011:CLA:HMA1	2.36	0.55
17:4:170:GLN:NE2	21:4:4014:CLA:C4B	2.69	0.55
21:4:4006:CLA:CBC	21:4:4013:CLA:C3C	2.84	0.55
1:A:441:ALA:O	1:A:445:HIS:ND1	2.33	0.55
1:A:615:HIS:CD2	21:A:1135:CLA:C2C	2.89	0.55
7:G:95:ASN:CB	7:G:96:GLY:CA	2.85	0.55
21:1:1001:CLA:C3	21:1:1002:CLA:CBC	2.85	0.55
17:4:151:PHE:N	27:4:4503:NEX:H372	2.22	0.55
3:C:75:ARG:HE	4:D:157:ARG:NH1	2.05	0.55
7:G:68:THR:HG23	7:G:69:GLY:N	2.22	0.55
8:H:135:PRO:CG	8:H:136:PRO:CD	2.85	0.55
14:1:66:LEU:HG	21:1:1004:CLA:H42	1.89	0.55
26:1:1501:LUT:C12	21:1:1002:CLA:CAA	2.85	0.55
21:1:1003:CLA:CGA	21:1:1003:CLA:C1A	2.84	0.55
21:1:1010:CLA:CHA	21:1:1010:CLA:CED	2.86	0.55
15:2:118:MET:CG	15:2:119:LEU:CD1	2.85	0.55
15:2:166:ILE:HD11	21:2:2013:CLA:CMB	2.26	0.55
21:2:2002:CLA:C7	26:2:2501:LUT:C36	2.85	0.55
21:2:2004:CLA:C4	21:2:2004:CLA:CMB	2.85	0.55
21:3:3012:CLA:C1A	21:3:3012:CLA:CED	2.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4:160:GLN:HA	21:4:4005:CLA:HED1	1.89	0.55
21:4:4007:CLA:CGA	21:4:4007:CLA:C1A	2.85	0.55
1:A:387:THR:HG23	1:A:526:LYS:HB2	1.89	0.54
1:A:657:LEU:HD22	23:A:9011:CL0:H26	1.90	0.54
1:A:684:PHE:HB2	21:A:9012:CLA:O1A	2.07	0.54
2:B:166:SER:CB	7:G:102:ASP:CB	2.85	0.54
21:B:1210:CLA:H52	21:B:1215:CLA:HBC3	1.87	0.54
7:G:124:VAL:CG2	21:G:1002:CLA:CMD	2.85	0.54
19:I:6018:BCR:HC31	19:I:6020:BCR:H353	1.88	0.54
10:J:2:ARG:HA	21:J:6015:CLA:CBB	2.36	0.54
12:L:91:THR:O	12:L:92:ALA:HB3	2.06	0.54
13:N:169:LYS:O	13:N:170:TRP:HB2	2.07	0.54
21:1:1001:CLA:C4	21:1:1002:CLA:CBC	2.85	0.54
21:1:1002:CLA:HMB2	21:1:1007:CLA:C2D	2.38	0.54
21:1:1013:CLA:O1D	21:1:1013:CLA:H62	2.07	0.54
21:2:2001:CLA:C1B	21:2:2014:CLA:CMA	2.83	0.54
21:2:2008:CLA:C17	21:2:2008:CLA:C14	2.85	0.54
21:2:2010:CLA:CAD	21:2:2010:CLA:CED	2.85	0.54
16:3:256:ASN:HD21	21:3:3017:CLA:HMD2	1.73	0.54
21:3:3009:CLA:CGA	21:3:3009:CLA:CGD	2.85	0.54
17:4:104:MET:HB3	26:4:4501:LUT:C35	2.36	0.54
17:4:110:MET:CB	26:4:4502:LUT:C38	2.84	0.54
17:4:217:PHE:CE1	26:4:4502:LUT:H391	2.41	0.54
12:L:60:ILE:HD12	12:L:68:SER:HB3	1.89	0.54
19:L:6019:BCR:C38	19:L:6019:BCR:C23	2.85	0.54
21:1:1009:CLA:H71	21:1:1009:CLA:H13	1.89	0.54
21:1:1013:CLA:C3D	21:1:1013:CLA:C9	2.85	0.54
15:2:73:PRO:HG3	21:2:2009:CLA:HBD	1.89	0.54
15:2:110:GLU:N	21:2:2004:CLA:HMB3	2.22	0.54
15:2:155:THR:CA	15:2:158:LEU:CG	2.85	0.54
21:2:2004:CLA:C4	21:2:2004:CLA:C2B	2.85	0.54
16:3:159:LEU:CD1	21:3:3013:CLA:C2D	2.85	0.54
16:3:164:MET:SD	21:3:3012:CLA:CAC	2.94	0.54
17:4:110:MET:CE	26:4:4502:LUT:C39	2.85	0.54
17:4:149:LEU:HB2	27:4:4503:NEX:H363	1.89	0.54
17:4:163:LYS:CE	21:4:4005:CLA:CED	2.85	0.54
17:4:246:THR:HG22	17:4:247:ILE:N	2.23	0.54
7:G:65:SER:HA	7:G:68:THR:HG21	1.84	0.54
7:G:138:LEU:CD2	25:G:2021:LMG:C28	2.85	0.54
10:J:2:ARG:CA	21:J:6015:CLA:HAB	2.17	0.54
11:K:73:ALA:HB1	11:K:77:ASN:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:67:GLY:O	12:L:68:SER:HB2	2.07	0.54
21:1:1008:CLA:C5	21:1:1008:CLA:C9	2.85	0.54
15:2:70:LEU:HG	15:2:76:THR:HB	1.88	0.54
15:2:158:LEU:HD11	21:2:2010:CLA:HBC1	1.88	0.54
16:3:108:ILE:CG2	21:3:3011:CLA:CBB	2.86	0.54
1:A:608:SER:OG	1:A:609:ILE:N	2.41	0.54
2:B:417:ALA:O	2:B:421:HIS:ND1	2.41	0.54
2:B:620:LEU:HG	2:B:620:LEU:O	2.05	0.54
7:G:116:LYS:HD3	7:G:116:LYS:C	2.26	0.54
21:1:1010:CLA:H92	21:1:1010:CLA:C4	2.37	0.54
21:2:2008:CLA:CHD	21:2:2008:CLA:CBC	2.85	0.54
16:3:159:LEU:CD1	21:3:3013:CLA:C1D	2.85	0.54
21:4:4001:CLA:CGA	21:4:4001:CLA:C3A	2.85	0.54
21:4:4001:CLA:HAB	26:4:4501:LUT:H403	1.89	0.54
21:4:4006:CLA:HBC1	21:4:4013:CLA:CAC	2.38	0.54
21:4:4006:CLA:HBC1	21:4:4013:CLA:C4C	2.38	0.54
21:4:4008:CLA:HMA1	21:4:4008:CLA:H12	1.88	0.54
21:A:1126:CLA:H172	21:A:9012:CLA:H112	1.90	0.54
12:L:54:TYR:CD1	12:L:55:GLN:HG3	2.42	0.54
14:1:183:LYS:NZ	21:1:1002:CLA:HMC2	2.22	0.54
21:2:2003:CLA:C14	21:2:2003:CLA:C10	2.85	0.54
21:2:2003:CLA:CBB	26:2:2501:LUT:C4	2.85	0.54
2:B:571:SER:OG	2:B:574:ASP:OD1	2.25	0.54
7:G:92:PRO:CD	7:G:93:GLU:H	2.15	0.54
7:G:125:LEU:HD23	19:G:2011:BCR:H363	1.88	0.54
21:G:1001:CLA:HBB1	21:G:1001:CLA:CHC	2.35	0.54
12:L:177:GLN:O	12:L:178:THR:HG23	2.08	0.54
21:2:2002:CLA:HAC2	21:2:2007:CLA:ND	2.23	0.54
26:2:2502:LUT:C8	26:2:2502:LUT:C18	2.85	0.54
20:2:2801:LHG:C14	20:2:2801:LHG:C6	2.85	0.54
16:3:217:ASP:HB3	16:3:219:LYS:HE3	1.90	0.54
17:4:152:HIS:O	17:4:156:ILE:HG23	2.07	0.54
21:4:4006:CLA:CAC	21:4:4013:CLA:C3C	2.86	0.54
23:A:9011:CL0:H7	21:B:9010:CLA:HBB1	1.88	0.54
2:B:93:ASP:OD1	2:B:95:HIS:ND1	2.23	0.54
4:D:100:PHE:HZ	4:D:158:VAL:HG11	1.69	0.54
10:J:2:ARG:HG3	21:J:6015:CLA:CBB	2.38	0.54
12:L:145:LEU:HB3	12:L:186:THR:CG2	2.34	0.54
12:L:208:ASP:O	12:L:209:LEU:HD23	2.07	0.54
14:1:131:LEU:HG	14:1:135:LEU:CD1	2.34	0.54
26:1:1501:LUT:C40	21:1:1001:CLA:CBB	2.85	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2:172:ARG:NE	21:2:2011:CLA:HMC3	2.23	0.54
16:3:108:ILE:HG23	21:3:3011:CLA:CBB	2.37	0.54
16:3:260:HIS:CE1	16:3:261:VAL:HG12	2.42	0.54
21:3:3011:CLA:CGD	21:3:3011:CLA:CGA	2.85	0.54
17:4:190:ILE:N	21:4:4014:CLA:HBA1	2.21	0.54
17:4:197:ALA:C	17:4:199:THR:H	2.10	0.54
21:4:4004:CLA:C14	21:4:4004:CLA:C17	2.85	0.54
21:A:1131:CLA:C5	21:A:1131:CLA:C9	2.85	0.54
2:B:26:ALA:HA	21:B:1226:CLA:H42	1.90	0.54
3:C:28:MET:HE3	3:C:39:ILE:C	2.28	0.54
4:D:160:PRO:HD2	4:D:161:SER:H	1.72	0.54
7:G:114:LEU:CD1	21:G:1002:CLA:CGD	2.85	0.54
13:N:167:PHE:HD1	13:N:168:TRP:O	1.91	0.54
14:1:66:LEU:HD21	21:1:1004:CLA:H42	1.88	0.54
26:1:1501:LUT:H12	21:1:1002:CLA:CAA	2.38	0.54
21:1:1010:CLA:CBA	21:1:1010:CLA:C2	2.85	0.54
15:2:109:ALA:CB	21:2:2012:CLA:CED	2.85	0.54
16:3:173:ARG:O	16:3:176:GLN:N	2.40	0.54
17:4:79:PRO:HD2	26:4:4502:LUT:O3	2.08	0.54
17:4:197:ALA:CB	17:4:199:THR:HG22	2.38	0.54
21:4:4008:CLA:HBC1	26:4:4501:LUT:H22	1.90	0.54
7:G:95:ASN:H	7:G:96:GLY:C	2.11	0.54
8:H:70:TRP:HA	8:H:70:TRP:CE3	2.43	0.54
8:H:70:TRP:O	12:L:162:PRO:HB3	2.08	0.54
14:1:83:HIS:ND1	21:1:1012:CLA:HMD1	2.22	0.54
21:1:1013:CLA:H91	21:1:1013:CLA:C2D	2.37	0.54
21:2:2002:CLA:CGA	21:2:2002:CLA:CMA	2.85	0.54
21:2:2002:CLA:C3A	26:2:2501:LUT:C20	2.85	0.54
16:3:183:SER:H	16:3:184:MET:HE2	1.73	0.54
21:A:1125:CLA:O2D	21:A:1125:CLA:H2A	2.08	0.54
2:B:478:LEU:HA	2:B:486:LEU:HG	1.90	0.54
21:B:1220:CLA:HMD2	21:B:1221:CLA:HAB	1.90	0.54
21:B:1238:CLA:H171	12:L:140:ILE:HD13	1.89	0.54
4:D:101:TYR:OH	4:D:157:ARG:NH1	2.40	0.54
5:E:79:GLN:HA	5:E:84:TYR:CE1	2.43	0.54
7:G:115:LEU:C	21:G:1002:CLA:HMA3	2.27	0.54
7:G:121:ILE:HA	7:G:124:VAL:HG23	1.90	0.54
14:1:136:VAL:HG23	14:1:137:ILE:N	2.24	0.54
21:1:1009:CLA:CMB	21:4:4015:CLA:CGD	2.85	0.54
15:2:94:LEU:CB	15:2:96:LEU:CD2	2.86	0.54
15:2:155:THR:C	15:2:158:LEU:HG	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2:2004:CLA:C2B	21:2:2004:CLA:H43	2.38	0.54
21:2:2006:CLA:C12	21:2:2006:CLA:C5	2.86	0.54
16:3:243:PHE:O	16:3:247:LEU:HD13	2.08	0.54
2:B:411:MET:CE	21:B:1227:CLA:CHD	2.86	0.53
5:E:77:LEU:HD12	5:E:77:LEU:N	2.24	0.53
7:G:76:ARG:NH1	21:G:1002:CLA:C1C	2.71	0.53
21:L:1501:CLA:HBD	21:L:1501:CLA:HBA1	1.90	0.53
14:1:223:HIS:CE1	21:1:1003:CLA:HBD	2.42	0.53
15:2:99:ASP:OD1	15:2:99:ASP:N	2.41	0.53
15:2:118:MET:SD	21:2:2001:CLA:CHD	2.93	0.53
21:2:2008:CLA:O2D	21:2:2008:CLA:H2A	2.08	0.53
16:3:165:ALA:O	16:3:168:GLY:N	2.41	0.53
21:3:3003:CLA:CED	21:3:3008:CLA:CAD	2.86	0.53
17:4:66:TYR:OH	17:4:84:GLU:OE2	2.22	0.53
17:4:214:MET:CE	21:4:4004:CLA:CHC	2.86	0.53
21:4:4004:CLA:C1	26:4:4502:LUT:C16	2.85	0.53
21:4:4008:CLA:C2	21:4:4008:CLA:CHB	2.85	0.53
21:A:1132:CLA:C9	21:L:1503:CLA:HBB2	2.38	0.53
21:B:1227:CLA:CBB	21:B:1240:CLA:C14	2.86	0.53
4:D:182:ARG:O	4:D:183:GLN:HB2	2.08	0.53
14:1:88:MET:CE	21:1:1001:CLA:HAB	2.39	0.53
14:1:202:GLN:OE1	14:1:202:GLN:HA	2.09	0.53
26:1:1502:LUT:H362	21:1:1006:CLA:HAB	1.89	0.53
20:1:1801:LHG:C21	20:1:1801:LHG:C17	2.86	0.53
15:2:86:PRO:HA	15:2:225:THR:HG22	1.90	0.53
15:2:227:GLU:HA	15:2:230:ASN:ND2	2.23	0.53
16:3:96:PHE:CE1	16:3:99:PRO:HG2	2.43	0.53
21:3:3013:CLA:HAA2	21:3:3013:CLA:HBD	1.90	0.53
21:4:4001:CLA:C5	21:4:4002:CLA:C1	2.85	0.53
21:4:4002:CLA:C4C	21:4:4007:CLA:CMB	2.83	0.53
21:A:1136:CLA:HBD	21:A:1136:CLA:HBA1	1.89	0.53
5:E:66:ILE:HG22	5:E:67:GLY:N	2.20	0.53
8:H:135:PRO:CD	8:H:136:PRO:CD	2.81	0.53
19:L:6020:BCR:C19	21:L:1501:CLA:CMB	2.85	0.53
21:1:1009:CLA:CMD	27:4:4503:NEX:C11	2.85	0.53
21:1:1009:CLA:HBB1	21:1:1009:CLA:CHC	2.38	0.53
21:2:2002:CLA:HBA1	26:2:2501:LUT:C15	2.36	0.53
21:2:2007:CLA:C4	21:2:2007:CLA:H71	2.37	0.53
21:4:4003:CLA:C1B	26:4:4501:LUT:H42	2.38	0.53
21:4:4008:CLA:CGA	21:4:4008:CLA:C3A	2.84	0.53
1:A:437:ARG:HD2	4:D:86:GLY:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:A:6002:BCR:H362	19:A:6003:BCR:C10	2.37	0.53
21:A:1125:CLA:C10	21:A:1125:CLA:C5	2.85	0.53
2:B:311:PRO:HB2	20:B:7004:LHG:O1	2.08	0.53
19:B:6005:BCR:H381	21:B:1203:CLA:HMC2	1.89	0.53
3:C:29:ILE:CD1	4:D:182:ARG:HB2	2.39	0.53
21:F:1303:CLA:CMD	21:4:4012:CLA:C1D	2.84	0.53
8:H:73:TYR:C	8:H:75:SER:H	2.10	0.53
14:1:143:ALA:CA	21:1:1012:CLA:HBB1	2.38	0.53
16:3:163:GLU:OE2	21:3:3013:CLA:HBB1	2.07	0.53
17:4:226:VAL:CG2	17:4:227:THR:N	2.71	0.53
1:A:88:ILE:HG23	19:J:6012:BCR:H282	1.90	0.53
19:A:6017:BCR:H323	21:B:9022:CLA:H141	1.90	0.53
21:A:1101:CLA:HMA1	21:A:1106:CLA:H203	1.89	0.53
2:B:414:HIS:ND1	2:B:414:HIS:O	2.42	0.53
11:K:65:LEU:HD21	11:K:104:ALA:HA	1.88	0.53
14:1:83:HIS:CE1	21:1:1012:CLA:HMD1	2.44	0.53
14:1:100:LEU:HB3	21:1:1006:CLA:HED1	1.90	0.53
14:1:183:LYS:HD3	21:1:1002:CLA:HMC2	1.91	0.53
14:1:190:LEU:CD2	21:1:1002:CLA:HAA1	2.38	0.53
21:1:1002:CLA:CMB	21:1:1007:CLA:C4D	2.86	0.53
16:3:164:MET:HE1	21:3:3012:CLA:HBC1	1.90	0.53
17:4:171:ASP:HB3	27:4:4503:NEX:H10	1.90	0.53
1:A:331:LEU:CD1	21:A:1122:CLA:CED	2.85	0.53
21:A:9013:CLA:HED3	19:F:6014:BCR:H312	1.91	0.53
21:B:9010:CLA:O2D	21:B:9010:CLA:HAA2	2.09	0.53
12:L:61:ASN:ND2	12:L:166:LEU:CD1	2.72	0.53
14:1:180:TYR:HD2	21:1:1001:CLA:O1A	1.92	0.53
21:1:1003:CLA:C9	20:1:1801:LHG:H182	2.39	0.53
16:3:96:PHE:CZ	16:3:101:TRP:HB3	2.43	0.53
16:3:171:GLU:CA	16:3:174:ARG:CG	2.86	0.53
16:3:173:ARG:HH11	16:3:173:ARG:HG2	1.72	0.53
21:3:3009:CLA:HBD	21:3:3009:CLA:CGA	2.39	0.53
1:A:545:HIS:O	1:A:549:ILE:HG13	2.09	0.53
21:B:1228:CLA:CHD	21:B:1228:CLA:CBC	2.85	0.53
11:K:72:LEU:O	11:K:80:ALA:N	2.42	0.53
14:1:102:LEU:HD11	21:1:1006:CLA:O1D	2.09	0.53
26:1:1501:LUT:C12	21:1:1002:CLA:CBA	2.85	0.53
21:1:1001:CLA:C5	21:1:1002:CLA:CAC	2.85	0.53
21:1:1003:CLA:C19	21:1:1003:CLA:C15	2.85	0.53
21:2:2005:CLA:HBC1	21:2:2010:CLA:HBB2	1.90	0.53
16:3:174:ARG:NH2	21:3:3011:CLA:C1D	2.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4:102:TRP:CB	17:4:102:TRP:N	2.72	0.53
21:4:4008:CLA:H12	21:4:4008:CLA:CMA	2.38	0.53
21:B:1224:CLA:CGA	21:B:1224:CLA:H3A	2.38	0.53
21:B:9010:CLA:CBC	21:B:9010:CLA:CHD	2.85	0.53
4:D:77:PRO:CG	4:D:78:ASN:N	2.72	0.53
12:L:165:THR:HG23	12:L:166:LEU:O	2.09	0.53
19:L:6019:BCR:C8	19:L:6019:BCR:C33	2.85	0.53
21:2:2001:CLA:C1D	26:2:2501:LUT:C39	2.85	0.53
21:3:3009:CLA:CBA	21:3:3009:CLA:CBD	2.85	0.53
21:4:4003:CLA:NC	21:4:4003:CLA:C4	2.72	0.53
1:A:60:ASP:OD2	20:A:7001:LHG:O2	2.27	0.53
1:A:328:LYS:HD3	1:A:347:TYR:HB3	1.91	0.53
2:B:523:ILE:HG21	21:B:1234:CLA:CAB	2.39	0.53
2:B:645:VAL:HG12	21:B:1206:CLA:HAC1	1.90	0.53
21:B:1207:CLA:CAB	9:I:14:LEU:HG	2.38	0.53
14:1:223:HIS:NE2	21:1:1003:CLA:CBA	2.72	0.53
26:1:1502:LUT:H371	21:1:1010:CLA:HMA3	1.90	0.53
21:1:1010:CLA:HBA1	21:1:1010:CLA:C2	2.37	0.53
16:3:174:ARG:CZ	21:3:3011:CLA:ND	2.72	0.53
16:3:203:TYR:N	16:3:204:PRO:HD3	2.23	0.53
21:3:3001:CLA:H121	21:3:3002:CLA:HBB2	1.90	0.53
21:3:3009:CLA:HED2	21:3:3009:CLA:H2A	1.89	0.53
17:4:99:ASN:HD22	21:4:4004:CLA:HBB2	1.73	0.53
17:4:170:GLN:NE2	21:4:4014:CLA:CHC	2.72	0.53
1:A:64:PHE:CD2	21:A:1103:CLA:HMC2	2.44	0.53
2:B:17:THR:HA	2:B:696:LYS:HB2	1.91	0.53
4:D:125:GLU:O	4:D:125:GLU:HG3	2.09	0.53
12:L:150:ILE:HD13	12:L:150:ILE:N	2.23	0.53
13:N:118:TYR:O	13:N:119:THR:OG1	2.23	0.53
13:N:132:THR:HA	13:N:134:CYS:H	1.73	0.53
14:1:85:ARG:HE	21:1:1001:CLA:CHD	2.21	0.53
14:1:100:LEU:CD1	21:1:1014:CLA:O2A	2.57	0.53
15:2:168:TRP:HE1	21:2:2011:CLA:HBB2	1.71	0.53
21:2:2001:CLA:HHB	21:2:2014:CLA:C2A	2.39	0.53
16:3:164:MET:CE	21:3:3012:CLA:CBC	2.85	0.53
21:4:4003:CLA:CBB	26:4:4501:LUT:C18	2.85	0.53
21:A:1138:CLA:H151	21:A:1139:CLA:H43	1.90	0.52
2:B:428:PHE:CE2	21:B:1235:CLA:HAB	2.44	0.52
7:G:110:GLU:CG	7:G:111:TYR:N	2.72	0.52
21:G:1002:CLA:CHD	21:G:1002:CLA:CBC	2.85	0.52
8:H:135:PRO:CG	8:H:136:PRO:HD2	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1:195:PHE:CG	26:1:1502:LUT:C40	2.92	0.52
21:1:1007:CLA:NC	20:1:1801:LHG:HC42	2.24	0.52
21:2:2003:CLA:H41	21:2:2003:CLA:C7	2.09	0.52
21:2:2011:CLA:H41	21:2:2014:CLA:NB	2.24	0.52
16:3:246:GLY:HA2	16:3:251:VAL:O	2.10	0.52
21:3:3008:CLA:HBC2	21:3:3008:CLA:HHD	1.90	0.52
21:3:3011:CLA:O2A	21:3:3011:CLA:H2A	2.01	0.52
2:B:177:HIS:CG	21:B:1210:CLA:HMC2	2.45	0.52
2:B:189:ALA:HA	21:B:1212:CLA:HAB	1.92	0.52
20:B:7004:LHG:H181	20:B:7004:LHG:H342	1.86	0.52
7:G:114:LEU:HD22	7:G:119:ALA:O	2.08	0.52
12:L:120:LEU:CB	12:L:126:ALA:CB	2.85	0.52
12:L:203:LEU:CD1	12:L:203:LEU:H	2.22	0.52
13:N:96:LYS:HG2	13:N:99:LYS:HD2	1.91	0.52
14:1:191:ALA:O	14:1:194:ALA:N	2.42	0.52
14:1:195:PHE:CZ	26:1:1502:LUT:C39	2.93	0.52
21:1:1009:CLA:HMB3	21:4:4015:CLA:CGD	2.39	0.52
21:1:1009:CLA:HMD3	27:4:4503:NEX:C20	2.39	0.52
21:1:1010:CLA:CMB	21:1:1013:CLA:HMB2	2.31	0.52
20:1:1801:LHG:H352	21:4:4015:CLA:HBA1	1.91	0.52
17:4:214:MET:HE3	21:4:4004:CLA:CHC	2.33	0.52
21:4:4004:CLA:CGA	21:4:4004:CLA:C3A	2.88	0.52
20:A:7001:LHG:H162	21:A:1128:CLA:H72	1.92	0.52
21:A:1130:CLA:HBB1	21:A:1136:CLA:H192	1.91	0.52
21:A:9012:CLA:HED1	2:B:620:LEU:HD13	1.91	0.52
18:B:5002:PQN:H301	24:B:7101:DGD:HA81	1.92	0.52
21:B:1239:CLA:HHC	21:B:1239:CLA:HBB1	1.91	0.52
5:E:102:PRO:HD2	5:E:103:VAL:HG23	1.90	0.52
7:G:116:LYS:C	7:G:118:ALA:H	2.11	0.52
7:G:138:LEU:HD22	25:G:2021:LMG:C28	2.39	0.52
12:L:61:ASN:HD21	12:L:166:LEU:HG	1.72	0.52
12:L:144:CYS:HB3	19:L:6019:BCR:C20	2.39	0.52
13:N:160:PHE:CE2	13:N:166:VAL:CG1	2.86	0.52
14:1:195:PHE:CE1	14:1:199:CYS:SG	3.03	0.52
26:1:1501:LUT:C40	21:1:1001:CLA:CAB	2.85	0.52
21:1:1001:CLA:HHD	21:1:1011:CLA:O1A	2.08	0.52
20:1:1801:LHG:H202	20:1:1801:LHG:C38	2.34	0.52
15:2:155:THR:HA	15:2:158:LEU:CG	2.39	0.52
21:3:3011:CLA:CGD	21:3:3011:CLA:CBA	2.88	0.52
17:4:104:MET:HE3	21:4:4001:CLA:HHC	1.90	0.52
1:A:336:GLY:N	1:A:339:THR:CG2	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:453:LEU:HD21	21:A:1136:CLA:HAB	1.90	0.52
21:B:1213:CLA:C2	7:G:140:LEU:HD21	2.38	0.52
12:L:51:LYS:N	12:L:52:PRO:CD	2.72	0.52
14:1:184:GLU:HG3	21:1:1001:CLA:C1B	2.40	0.52
26:1:1501:LUT:H10	21:1:1002:CLA:HBA1	1.91	0.52
21:1:1008:CLA:H51	21:1:1008:CLA:C9	2.40	0.52
15:2:118:MET:CG	15:2:119:LEU:N	2.73	0.52
15:2:120:GLY:HA2	26:2:2502:LUT:H373	1.92	0.52
15:2:172:ARG:NE	21:2:2011:CLA:CMC	2.72	0.52
16:3:260:HIS:HB2	21:3:3017:CLA:HBC1	1.91	0.52
21:4:4002:CLA:HAA2	21:4:4002:CLA:HBD	1.91	0.52
1:A:218:TRP:HD1	1:A:303:HIS:CD2	2.28	0.52
19:A:6008:BCR:H19C	21:A:1124:CLA:HMB3	1.92	0.52
2:B:293:THR:OG1	2:B:294:ASN:N	2.42	0.52
2:B:302:LYS:O	2:B:306:GLU:HG2	2.10	0.52
14:1:79:SER:O	14:1:82:ILE:HG22	2.09	0.52
21:1:1013:CLA:H61	21:1:1014:CLA:HHC	1.91	0.52
16:3:109:ASN:HB3	21:3:3012:CLA:O1D	2.08	0.52
16:3:174:ARG:NH2	21:3:3011:CLA:C4D	2.72	0.52
1:A:609:ILE:N	1:A:609:ILE:CD1	2.73	0.52
19:B:6004:BCR:H382	19:B:6004:BCR:C23	2.40	0.52
19:L:6020:BCR:H19C	21:L:1501:CLA:HMB2	1.91	0.52
14:1:162:GLY:N	21:1:1001:CLA:CED	2.72	0.52
14:1:184:GLU:HG3	21:1:1001:CLA:C4B	2.40	0.52
21:1:1002:CLA:CHC	21:1:1002:CLA:HBB1	2.40	0.52
21:1:1013:CLA:C11	21:1:1013:CLA:C16	2.85	0.52
15:2:168:TRP:NE1	21:2:2011:CLA:CBB	2.73	0.52
21:3:3012:CLA:HED3	21:3:3012:CLA:C1A	2.40	0.52
17:4:227:THR:CG2	17:4:234:ASN:ND2	2.73	0.52
2:B:289:LEU:HB3	21:B:1217:CLA:HED1	1.92	0.52
6:F:215:ILE:CG2	17:4:82:LEU:HD22	2.40	0.52
21:1:1006:CLA:CBA	21:1:1014:CLA:C2C	2.88	0.52
21:1:1009:CLA:HBB2	17:4:156:ILE:CG2	2.40	0.52
15:2:172:ARG:CZ	21:2:2011:CLA:HMC1	2.40	0.52
15:2:259:HIS:NE2	21:2:2003:CLA:C2D	2.73	0.52
21:2:2001:CLA:C2D	26:2:2501:LUT:C39	2.87	0.52
17:4:178:SER:C	21:4:4014:CLA:HMA1	2.30	0.52
21:4:4004:CLA:CBC	21:4:4009:CLA:CBB	2.86	0.52
2:B:124:TRP:HB3	2:B:129:LEU:HD12	1.92	0.52
2:B:225:LEU:O	2:B:230:TRP:NE1	2.39	0.52
7:G:76:ARG:NH1	7:G:116:LYS:CE	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1:223:HIS:NE2	21:1:1003:CLA:O2A	2.43	0.52
21:1:1009:CLA:C2D	21:4:4005:CLA:HAC1	2.39	0.52
21:2:2002:CLA:H3A	26:2:2501:LUT:H15	1.92	0.52
20:2:2801:LHG:H141	20:2:2801:LHG:O8	2.10	0.52
16:3:245:GLN:HG3	21:3:3003:CLA:C2C	2.39	0.52
21:4:4005:CLA:C1A	21:4:4005:CLA:CGA	2.88	0.52
21:4:4014:CLA:HBD	21:4:4014:CLA:CAA	2.39	0.52
19:A:6007:BCR:H372	20:A:7003:LHG:H241	1.92	0.52
2:B:442:VAL:HG21	21:B:1230:CLA:HAC2	1.91	0.52
21:B:1224:CLA:O1D	21:B:1225:CLA:HMA1	2.10	0.52
14:1:88:MET:CE	21:1:1001:CLA:CHC	2.85	0.52
26:1:1502:LUT:H222	21:1:1006:CLA:HMB1	1.92	0.52
21:1:1002:CLA:CAB	21:1:1007:CLA:HBD	2.28	0.52
15:2:155:THR:N	15:2:158:LEU:CD2	2.73	0.52
17:4:163:LYS:CE	21:4:4005:CLA:HED2	2.39	0.52
17:4:225:ASN:ND2	21:4:4010:CLA:C4	2.73	0.52
17:4:247:ILE:CD1	21:4:4003:CLA:CMD	2.85	0.52
21:4:4011:CLA:H71	21:4:4011:CLA:C12	2.39	0.52
1:A:368:LEU:HD11	21:A:1117:CLA:H71	1.92	0.52
21:B:1220:CLA:HMA1	21:B:1240:CLA:HED2	1.92	0.52
3:C:29:ILE:HD13	4:D:182:ARG:HB2	1.91	0.52
4:D:104:THR:CG2	4:D:129:LEU:CD2	2.86	0.52
11:K:57:MET:O	11:K:61:THR:N	2.42	0.52
12:L:203:LEU:N	12:L:203:LEU:CD1	2.73	0.52
14:1:61:PHE:HD1	21:1:1009:CLA:C1	2.23	0.52
14:1:195:PHE:HE2	26:1:1502:LUT:H393	1.75	0.52
21:2:2001:CLA:CHD	26:2:2501:LUT:C39	2.85	0.52
26:2:2502:LUT:C37	26:2:2502:LUT:C28	2.87	0.52
21:4:4001:CLA:C6	26:4:4501:LUT:H371	2.37	0.52
2:B:90:ALA:HA	2:B:113:VAL:HG12	1.91	0.51
21:B:9010:CLA:C3B	21:B:9022:CLA:HED2	2.39	0.51
12:L:85:ASN:C	12:L:86:LEU:HD13	2.30	0.51
12:L:158:PRO:HB3	12:L:178:THR:HG21	1.91	0.51
14:1:111:TRP:HH2	14:1:129:GLY:O	1.92	0.51
14:1:195:PHE:CZ	26:1:1502:LUT:H391	2.45	0.51
15:2:121:ALA:C	15:2:123:GLY:H	2.13	0.51
21:2:2002:CLA:HHC	21:2:2002:CLA:CBB	2.40	0.51
1:A:648:THR:HG23	1:A:651:GLY:HA3	1.91	0.51
21:B:1226:CLA:C14	21:B:1226:CLA:C10	2.86	0.51
12:L:199:TRP:HB2	19:L:6020:BCR:H321	1.92	0.51
21:L:1501:CLA:HBA1	21:L:1501:CLA:CHA	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1:1010:CLA:CHD	21:1:1010:CLA:CBC	2.85	0.51
21:1:1011:CLA:HMA1	21:1:1011:CLA:H142	1.92	0.51
21:1:1013:CLA:CED	21:1:1014:CLA:CMC	2.88	0.51
15:2:118:MET:HG3	15:2:119:LEU:CD1	2.39	0.51
17:4:238:HIS:NE2	21:4:4003:CLA:CGD	2.74	0.51
21:4:4004:CLA:C1	26:4:4502:LUT:H162	2.39	0.51
21:A:1130:CLA:O1A	2:B:686:PRO:HD3	2.10	0.51
2:B:199:ILE:O	2:B:202:SER:OG	2.18	0.51
2:B:314:ARG:O	2:B:410:ARG:NH2	2.43	0.51
21:B:1213:CLA:HBD	21:B:1213:CLA:CBA	2.17	0.51
4:D:101:TYR:O	4:D:132:LEU:N	2.30	0.51
14:1:217:HIS:O	14:1:218:LEU:HG	2.11	0.51
21:1:1002:CLA:CBB	21:1:1002:CLA:CHC	2.85	0.51
15:2:150:GLU:CB	21:2:2006:CLA:CMB	2.85	0.51
21:2:2002:CLA:H41	21:2:2002:CLA:C9	2.40	0.51
16:3:256:ASN:HB3	21:3:3003:CLA:CMC	2.41	0.51
21:3:3012:CLA:CHD	21:3:3012:CLA:CBC	2.87	0.51
21:4:4012:CLA:H152	21:4:4012:CLA:H203	1.92	0.51
1:A:343:HIS:N	1:A:431:LEU:HD21	2.25	0.51
1:A:652:TRP:O	1:A:656:PHE:HB3	2.11	0.51
1:A:743:ILE:HG21	21:A:1126:CLA:HMC2	1.91	0.51
20:A:7003:LHG:O9	21:A:1129:CLA:H2	2.10	0.51
2:B:231:ASN:CG	7:G:143:SER:HB2	2.30	0.51
21:B:1206:CLA:H91	21:B:1239:CLA:H12	1.91	0.51
3:C:78:GLY:CA	4:D:134:ARG:NH1	2.73	0.51
12:L:155:GLU:N	12:L:156:GLY:CA	2.72	0.51
21:1:1005:CLA:HED3	21:1:1012:CLA:O1A	2.10	0.51
21:2:2004:CLA:H102	21:2:2005:CLA:CMB	2.40	0.51
21:2:2009:CLA:CAB	20:2:2801:LHG:HC82	2.36	0.51
16:3:184:MET:CE	16:3:184:MET:N	2.73	0.51
16:3:203:TYR:N	16:3:204:PRO:CD	2.73	0.51
17:4:102:TRP:N	17:4:103:ALA:N	2.59	0.51
1:A:92:TRP:HE1	21:A:1106:CLA:HBA1	1.75	0.51
1:A:577:PHE:O	1:A:593:SER:OG	2.29	0.51
21:A:1126:CLA:O1D	21:A:1127:CLA:HMA1	2.09	0.51
23:A:9011:CL0:H16	2:B:624:LEU:HD13	1.93	0.51
13:N:96:LYS:O	13:N:99:LYS:N	2.42	0.51
14:1:202:GLN:NE2	14:1:208:THR:CB	2.73	0.51
26:1:1501:LUT:C39	21:1:1001:CLA:C4	2.85	0.51
15:2:232:ARG:NH2	21:2:2004:CLA:CED	2.73	0.51
16:3:236:MET:O	16:3:240:LEU:N	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:3:3012:CLA:CHA	21:3:3012:CLA:HED2	2.41	0.51
17:4:85:ASP:O	17:4:88:ASN:HB2	2.10	0.51
1:A:661:ALA:O	1:A:664:VAL:HG12	2.11	0.51
2:B:293:THR:HG21	21:B:1217:CLA:OBD	2.11	0.51
2:B:697:PRO:O	3:C:81:TYR:OH	2.19	0.51
20:B:7004:LHG:C18	20:B:7004:LHG:H341	2.38	0.51
21:1:1003:CLA:C4	20:1:1801:LHG:C19	2.84	0.51
15:2:86:PRO:HB2	15:2:225:THR:HA	1.92	0.51
15:2:109:ALA:CA	21:2:2012:CLA:CED	2.89	0.51
15:2:110:GLU:HA	21:2:2004:CLA:HBB1	1.93	0.51
15:2:118:MET:CB	26:2:2501:LUT:H35	2.35	0.51
21:2:2003:CLA:HBB2	26:2:2501:LUT:H42	1.89	0.51
21:2:2008:CLA:CBB	26:2:2501:LUT:H183	2.41	0.51
17:4:103:ALA:O	17:4:107:VAL:N	2.36	0.51
17:4:225:ASN:ND2	21:4:4010:CLA:C5	2.73	0.51
19:A:6017:BCR:C10	21:B:9022:CLA:H13	2.41	0.51
20:A:7003:LHG:C9	21:A:1129:CLA:CBA	2.85	0.51
20:A:7003:LHG:HC91	21:A:1129:CLA:CBA	2.40	0.51
21:B:1207:CLA:HMD3	19:I:6018:BCR:H311	1.93	0.51
21:B:1227:CLA:CBB	21:B:1240:CLA:H142	2.40	0.51
21:F:1303:CLA:CMB	26:4:4502:LUT:H202	2.40	0.51
21:1:1008:CLA:HAA1	21:1:1008:CLA:CBD	2.40	0.51
15:2:257:PHE:CZ	21:2:2008:CLA:C4	2.94	0.51
17:4:214:MET:HE3	21:4:4004:CLA:HMC3	1.93	0.51
17:4:238:HIS:NE2	21:4:4003:CLA:HED3	2.25	0.51
21:4:4006:CLA:HMC2	26:4:4502:LUT:C22	2.30	0.51
1:A:207:LEU:HA	1:A:211:LEU:HD22	1.92	0.51
1:A:604:TRP:CH2	21:B:9022:CLA:HAB	2.46	0.51
21:A:9012:CLA:H3A	21:A:9012:CLA:CGA	2.40	0.51
2:B:424:TRP:CD1	21:B:1229:CLA:HED2	2.46	0.51
16:3:174:ARG:HH22	21:3:3011:CLA:C4D	2.24	0.51
16:3:208:PHE:CB	21:3:3001:CLA:CED	2.88	0.51
21:A:1102:CLA:HMC3	21:A:1104:CLA:HED2	1.93	0.51
2:B:711:VAL:HG21	21:B:1239:CLA:HED3	1.93	0.51
4:D:190:ARG:O	4:D:194:LYS:HD3	2.11	0.51
5:E:126:GLU:O	5:E:127:GLU:HB2	2.11	0.51
6:F:215:ILE:HG21	17:4:82:LEU:HD22	1.93	0.51
7:G:107:ARG:CB	7:G:108:ALA:HB3	2.41	0.51
7:G:124:VAL:HG21	21:G:1002:CLA:HMD1	1.92	0.51
14:1:64:LEU:HD12	26:1:1502:LUT:H163	1.92	0.51
14:1:198:ILE:HG13	26:1:1501:LUT:H163	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2:152:PHE:CE2	21:2:2006:CLA:H41	2.45	0.51
21:2:2003:CLA:HBC2	21:2:2003:CLA:CHD	2.35	0.51
17:4:170:GLN:HG3	17:4:171:ASP:N	2.25	0.51
1:A:223:VAL:HG23	1:A:224:HIS:ND1	2.26	0.51
23:A:9011:CL0:H7	21:B:9010:CLA:CBB	2.41	0.51
23:A:9011:CL0:H16	2:B:624:LEU:CD1	2.40	0.51
2:B:463:ILE:HD12	21:B:1231:CLA:HMC3	1.93	0.51
21:B:1220:CLA:CAB	21:B:1227:CLA:HMD2	2.40	0.51
13:N:95:SER:O	13:N:95:SER:OG	2.27	0.51
14:1:89:LEU:HD21	21:1:1011:CLA:H201	1.92	0.51
21:1:1006:CLA:C3B	21:1:1013:CLA:H43	2.41	0.51
16:3:170:ALA:HB1	16:3:174:ARG:CZ	2.41	0.51
17:4:110:MET:HE1	26:4:4502:LUT:H392	1.92	0.51
1:A:331:LEU:HA	21:A:1122:CLA:HED1	1.92	0.50
21:B:1206:CLA:HMA1	21:B:1207:CLA:HBB1	1.92	0.50
7:G:92:PRO:CD	7:G:93:GLU:N	2.73	0.50
10:J:27:ILE:O	10:J:31:ARG:HG3	2.11	0.50
21:L:1501:CLA:HHC	21:L:1501:CLA:CBB	2.23	0.50
14:1:128:TRP:CB	14:1:133:THR:CG2	2.89	0.50
26:1:1501:LUT:C12	21:1:1002:CLA:HAA2	2.40	0.50
15:2:253:ILE:HD12	15:2:253:ILE:H	1.75	0.50
21:2:2013:CLA:H122	21:2:2013:CLA:H91	1.92	0.50
12:L:52:PRO:O	12:L:54:TYR:HD2	1.94	0.50
12:L:121:ARG:HB2	12:L:122:ASN:CG	2.32	0.50
19:L:6019:BCR:HC8	19:L:6019:BCR:C33	2.41	0.50
14:1:198:ILE:CG1	26:1:1501:LUT:H163	2.41	0.50
15:2:244:GLN:HB3	21:2:2003:CLA:HMB2	1.93	0.50
16:3:219:LYS:HG3	21:3:3001:CLA:HBA1	1.91	0.50
21:3:3009:CLA:H2A	21:3:3009:CLA:CED	2.41	0.50
1:A:64:PHE:CE1	21:A:1102:CLA:HED1	2.47	0.50
21:A:1138:CLA:H172	6:F:178:GLY:HA2	1.92	0.50
2:B:246:THR:HG22	2:B:248:GLN:CG	2.34	0.50
2:B:463:ILE:HG22	2:B:467:HIS:CE1	2.47	0.50
21:B:1223:CLA:HMB1	21:B:1223:CLA:HBB1	1.92	0.50
4:D:77:PRO:CD	4:D:78:ASN:N	2.73	0.50
5:E:90:VAL:HG12	5:E:105:VAL:HG22	1.93	0.50
10:J:2:ARG:HG3	21:J:6015:CLA:HBB2	1.92	0.50
11:K:63:LEU:O	11:K:66:PHE:HB2	2.11	0.50
14:1:61:PHE:HD1	21:1:1009:CLA:H12	1.77	0.50
14:1:88:MET:HE2	21:1:1001:CLA:HMC3	1.92	0.50
21:1:1008:CLA:HAA2	17:4:145:ILE:CG1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2:94:LEU:CB	15:2:96:LEU:HD21	2.41	0.50
15:2:152:PHE:CD2	21:2:2006:CLA:H41	2.47	0.50
21:4:4003:CLA:C19	21:4:4008:CLA:HMD2	2.42	0.50
1:A:183:TRP:HB2	21:A:1109:CLA:HMC3	1.93	0.50
1:A:343:HIS:N	1:A:431:LEU:CD2	2.72	0.50
1:A:578:ARG:NH1	20:A:7001:LHG:O10	2.44	0.50
2:B:6:PRO:HG3	2:B:12:LEU:HD23	1.93	0.50
2:B:166:SER:HB3	7:G:102:ASP:CB	2.40	0.50
10:J:29:ILE:HD12	25:J:5001:LMG:H311	1.93	0.50
14:1:211:LEU:CD2	21:1:1003:CLA:CED	2.85	0.50
14:1:211:LEU:CD2	21:1:1003:CLA:H2A	2.41	0.50
14:1:223:HIS:ND1	14:1:223:HIS:N	2.59	0.50
21:3:3011:CLA:CHD	21:3:3011:CLA:CBC	2.85	0.50
17:4:131:GLY:O	21:4:4010:CLA:HMD3	2.12	0.50
17:4:174:PHE:CD1	17:4:174:PHE:N	2.79	0.50
19:B:6009:BCR:HC7	21:B:1219:CLA:HBB1	1.93	0.50
6:F:96:LYS:O	6:F:100:LYS:HG2	2.12	0.50
8:H:69:GLN:HB2	12:L:66:ILE:HD13	1.93	0.50
12:L:108:PHE:CE1	12:L:200:ALA:HB2	2.47	0.50
13:N:95:SER:O	13:N:97:ALA:N	2.43	0.50
21:1:1003:CLA:HAB	21:1:1003:CLA:H112	1.92	0.50
21:1:1009:CLA:H2A	21:1:1009:CLA:O2D	2.11	0.50
15:2:155:THR:CA	15:2:158:LEU:CD1	2.85	0.50
21:3:3011:CLA:HBD	21:3:3011:CLA:CBA	2.34	0.50
21:4:4002:CLA:C3C	21:4:4007:CLA:CMB	2.85	0.50
1:A:216:LEU:HB2	1:A:307:ALA:HB1	1.94	0.50
21:B:1213:CLA:H52	21:B:1213:CLA:C4C	2.42	0.50
14:1:142:ILE:O	14:1:142:ILE:HG22	2.11	0.50
21:1:1013:CLA:CHD	21:1:1013:CLA:CBC	2.86	0.50
15:2:113:HIS:CD2	21:2:2012:CLA:CMD	2.91	0.50
21:2:2009:CLA:CHC	20:2:2801:LHG:H132	2.42	0.50
16:3:160:PHE:CE1	16:3:164:MET:CG	2.86	0.50
16:3:200:ASN:HD22	16:3:200:ASN:C	2.14	0.50
17:4:238:HIS:ND1	21:4:4003:CLA:H2A	2.27	0.50
1:A:590:CYS:HB2	2:B:667:TRP:HB3	1.93	0.50
1:A:596:ASP:OD1	1:A:731:ARG:NH1	2.44	0.50
19:A:6008:BCR:H353	21:A:1125:CLA:HED1	1.90	0.50
4:D:77:PRO:HD2	4:D:78:ASN:H	1.77	0.50
14:1:100:LEU:HD11	21:1:1014:CLA:O2A	2.11	0.50
21:1:1009:CLA:ND	21:4:4005:CLA:CAC	2.73	0.50
21:1:1013:CLA:CED	21:1:1014:CLA:HMC1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2:2009:CLA:CED	16:3:169:PHE:CZ	2.95	0.50
21:2:2011:CLA:HBB1	21:2:2011:CLA:CHC	2.42	0.50
16:3:200:ASN:ND2	16:3:201:PRO:N	2.60	0.50
21:4:4001:CLA:H8	26:4:4501:LUT:H372	1.94	0.50
1:A:475:ASP:CG	21:A:1132:CLA:HED2	2.31	0.50
21:A:1115:CLA:C1C	21:A:1115:CLA:H72	2.42	0.50
19:B:6010:BCR:C10	21:B:1216:CLA:H92	2.42	0.50
21:B:1213:CLA:HMB1	21:B:1213:CLA:HBB1	1.94	0.50
21:B:1222:CLA:HAA2	21:B:1223:CLA:OBD	2.12	0.50
6:F:201:PRO:C	6:F:202:LEU:HD23	2.31	0.50
11:K:114:HIS:O	11:K:118:VAL:N	2.34	0.50
13:N:161:LYS:CE	13:N:168:TRP:HZ3	2.25	0.50
13:N:168:TRP:CD1	16:3:262:ALA:CB	2.85	0.50
26:1:1501:LUT:H173	21:1:1003:CLA:CMB	2.41	0.50
26:1:1501:LUT:H392	21:1:1001:CLA:C6	2.41	0.50
15:2:91:PHE:CE2	21:2:2009:CLA:HMC2	2.46	0.50
15:2:252:PRO:CD	15:2:253:ILE:H	2.24	0.50
21:2:2006:CLA:HMC2	26:2:2502:LUT:H221	1.88	0.50
17:4:164:ASN:O	17:4:166:GLY:HA2	2.12	0.50
21:4:4005:CLA:HMC1	21:4:4005:CLA:HBC3	1.94	0.50
1:A:189:ALA:HB1	21:A:1108:CLA:HED3	1.93	0.50
21:A:1107:CLA:HBA1	21:A:1107:CLA:HBD	1.94	0.50
2:B:450:GLU:OE2	6:F:129:ARG:NH1	2.45	0.50
21:B:1202:CLA:HED2	21:B:1226:CLA:HBB2	1.93	0.50
7:G:76:ARG:NH1	7:G:116:LYS:NZ	2.60	0.50
13:N:106:ARG:HD3	13:N:109:THR:HA	1.94	0.50
21:1:1010:CLA:HED2	21:1:1010:CLA:CHA	2.41	0.50
16:3:108:ILE:CA	16:3:111:ARG:HD2	2.33	0.50
16:3:177:ASP:CG	16:3:209:PHE:CE2	2.86	0.50
17:4:153:TYR:C	17:4:153:TYR:CD1	2.85	0.50
1:A:41:SER:HB3	1:A:44:ILE:HB	1.94	0.49
1:A:615:HIS:CD2	21:A:1135:CLA:HMC2	2.47	0.49
7:G:93:GLU:CD	7:G:99:THR:HB	2.32	0.49
14:1:186:LYS:NZ	21:1:1007:CLA:HED1	2.11	0.49
21:2:2002:CLA:H41	21:2:2002:CLA:H92	1.94	0.49
21:4:4011:CLA:CHD	21:4:4011:CLA:CBC	2.85	0.49
1:A:195:TRP:CH2	21:A:1108:CLA:HAA2	2.47	0.49
21:A:1106:CLA:HBB2	21:A:1126:CLA:H142	1.94	0.49
2:B:316:GLY:N	2:B:410:ARG:NH2	2.59	0.49
21:B:1239:CLA:HHC	21:B:1239:CLA:CBB	2.42	0.49
7:G:74:LEU:CA	7:G:78:VAL:CG1	2.85	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:N:142:LYS:HD3	13:N:152:LEU:HD13	1.93	0.49
14:1:130:THR:CB	14:1:132:PRO:HD2	2.42	0.49
26:1:1502:LUT:C22	21:1:1006:CLA:HMB1	2.42	0.49
21:1:1001:CLA:C3	21:1:1002:CLA:CAC	2.88	0.49
21:1:1005:CLA:C5	21:1:1005:CLA:C9	2.85	0.49
21:1:1009:CLA:CMD	20:1:1801:LHG:HC12	2.40	0.49
21:2:2001:CLA:HHB	21:2:2014:CLA:H2A	1.95	0.49
16:3:207:PRO:C	16:3:208:PHE:CD1	2.86	0.49
17:4:95:ALA:CA	21:4:4012:CLA:CED	2.87	0.49
17:4:137:ALA:O	17:4:141:THR:OG1	2.16	0.49
17:4:170:GLN:HE22	21:4:4014:CLA:C4B	2.24	0.49
2:B:159:PRO:HA	2:B:162:LYS:HE3	1.94	0.49
2:B:239:SER:OG	2:B:249:GLY:HA3	2.13	0.49
21:B:1235:CLA:H172	19:F:6016:BCR:HC41	1.94	0.49
7:G:102:ASP:O	7:G:103:ALA:HB3	2.11	0.49
14:1:162:GLY:N	21:1:1001:CLA:HED1	2.26	0.49
21:1:1006:CLA:CMB	21:1:1013:CLA:C2	2.88	0.49
21:1:1009:CLA:HMD3	27:4:4503:NEX:C11	2.43	0.49
15:2:158:LEU:HD12	15:2:158:LEU:C	2.33	0.49
15:2:159:PHE:HB2	21:2:2010:CLA:HBC1	1.94	0.49
20:2:2801:LHG:HC62	20:2:2801:LHG:H142	1.94	0.49
1:A:243:PRO:HG3	1:A:254:LEU:HD21	1.94	0.49
10:J:13:VAL:HA	10:J:16:THR:HG23	1.95	0.49
14:1:143:ALA:N	21:1:1012:CLA:HBB1	2.27	0.49
26:1:1501:LUT:H392	21:1:1001:CLA:H62	1.93	0.49
21:1:1009:CLA:HMD3	27:4:4503:NEX:H11	1.92	0.49
21:1:1011:CLA:HMB2	21:1:1011:CLA:H102	1.94	0.49
21:3:3010:CLA:C1A	21:3:3010:CLA:CGA	2.90	0.49
17:4:109:GLY:HA3	21:4:4006:CLA:CAB	2.42	0.49
2:B:443:MET:O	2:B:447:GLY:N	2.45	0.49
21:1:1002:CLA:O1D	21:1:1002:CLA:H12	2.11	0.49
21:1:1010:CLA:H92	21:1:1010:CLA:C2	2.42	0.49
21:2:2006:CLA:HAA2	21:2:2006:CLA:HBD	1.93	0.49
16:3:174:ARG:HA	21:3:3011:CLA:C2C	2.42	0.49
2:B:279:ALA:O	21:B:1213:CLA:HMC3	2.13	0.49
7:G:76:ARG:HH11	7:G:76:ARG:HG2	1.77	0.49
8:H:127:PRO:HB2	8:H:128:ILE:C	2.33	0.49
19:L:6019:BCR:C23	19:L:6019:BCR:H383	2.42	0.49
14:1:94:ILE:HG23	26:1:1502:LUT:C24	2.42	0.49
14:1:105:TRP:CZ2	14:1:202:GLN:HG3	2.48	0.49
15:2:252:PRO:HD2	15:2:253:ILE:H	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:3:208:PHE:CB	21:3:3001:CLA:HED3	2.43	0.49
1:A:716:VAL:HG11	21:A:1138:CLA:HMB3	1.93	0.49
4:D:96:GLN:NE2	8:H:69:GLN:HB3	2.28	0.49
5:E:68:PRO:CG	5:E:93:VAL:HG21	2.37	0.49
5:E:89:SER:O	5:E:106:ARG:N	2.39	0.49
7:G:91:VAL:CB	7:G:92:PRO:HA	2.39	0.49
14:1:145:VAL:CG1	21:1:1011:CLA:C2B	2.91	0.49
21:1:1002:CLA:HHC	21:1:1002:CLA:HBB1	1.94	0.49
21:1:1009:CLA:HHC	17:4:156:ILE:HD11	1.94	0.49
20:1:1801:LHG:C35	21:4:4015:CLA:CBA	2.90	0.49
21:2:2006:CLA:H2	21:2:2006:CLA:O1A	2.13	0.49
21:2:2014:CLA:HMB3	26:2:2501:LUT:H24	1.95	0.49
17:4:104:MET:CE	21:4:4001:CLA:CMC	2.85	0.49
1:A:490:GLN:NE2	1:A:534:LEU:O	2.35	0.49
2:B:262:HIS:CE1	2:B:264:GLN:HB3	2.48	0.49
21:B:1210:CLA:HBC2	21:B:1210:CLA:HMC1	1.94	0.49
7:G:94:GLN:NE2	7:G:94:GLN:CA	2.73	0.49
7:G:116:LYS:CG	21:G:1002:CLA:NA	2.76	0.49
14:1:61:PHE:CD1	21:1:1009:CLA:H12	2.47	0.49
14:1:94:ILE:CG2	26:1:1502:LUT:C38	2.90	0.49
14:1:100:LEU:HD21	21:1:1014:CLA:CAA	2.37	0.49
14:1:108:ALA:HB1	21:1:1006:CLA:CMA	2.41	0.49
21:1:1013:CLA:C7	21:1:1014:CLA:CBB	2.85	0.49
15:2:168:TRP:CD1	15:2:168:TRP:C	2.85	0.49
15:2:228:ILE:HG22	15:2:232:ARG:NE	2.28	0.49
21:2:2002:CLA:H62	26:2:2501:LUT:H28	1.93	0.49
21:2:2008:CLA:HBB2	26:2:2501:LUT:C18	2.43	0.49
1:A:553:VAL:HG11	21:A:1137:CLA:HMB3	1.93	0.49
1:A:648:THR:CG2	1:A:651:GLY:CA	2.90	0.49
21:A:1131:CLA:HBB1	21:A:1132:CLA:H11	1.95	0.49
21:A:1132:CLA:H91	21:L:1503:CLA:HBB2	1.95	0.49
2:B:428:PHE:O	2:B:432:HIS:ND1	2.33	0.49
2:B:645:VAL:HG12	21:B:1206:CLA:HHD	1.95	0.49
7:G:116:LYS:NZ	21:G:1002:CLA:NC	2.60	0.49
8:H:135:PRO:HG2	8:H:136:PRO:HD2	1.95	0.49
14:1:47:ARG:NH2	14:1:51:LEU:C	2.61	0.49
21:1:1002:CLA:HMB2	21:1:1007:CLA:C1D	2.42	0.49
21:1:1006:CLA:C4A	21:1:1013:CLA:C5	2.90	0.49
21:3:3005:CLA:NC	21:3:3012:CLA:CGA	2.76	0.49
17:4:171:ASP:CB	27:4:4503:NEX:H10	2.43	0.49
17:4:246:THR:HG21	21:4:4008:CLA:HED3	1.89	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:654:ARG:NH2	1:A:655:ASP:OD2	2.27	0.49
18:A:5001:PQN:H201	21:A:1138:CLA:HBC1	1.95	0.49
20:B:7004:LHG:H161	20:B:7004:LHG:H312	1.94	0.49
21:B:1213:CLA:CGA	21:B:1213:CLA:CHA	2.91	0.49
3:C:77:MET:HB3	3:C:79:LEU:HG	1.94	0.49
6:F:202:LEU:HD13	6:F:207:VAL:HG22	1.94	0.49
14:1:138:GLU:O	14:1:142:ILE:HG12	2.12	0.49
14:1:211:LEU:HD23	14:1:211:LEU:C	2.33	0.49
14:1:223:HIS:NE2	21:1:1003:CLA:CBD	2.72	0.49
15:2:232:ARG:NH1	21:2:2004:CLA:ND	2.60	0.49
21:2:2003:CLA:H12	21:2:2003:CLA:HMA2	1.93	0.49
21:2:2010:CLA:HED2	21:2:2010:CLA:OBD	2.12	0.49
16:3:159:LEU:HD11	21:3:3013:CLA:C2D	2.42	0.49
17:4:110:MET:HE1	17:4:217:PHE:HE1	1.71	0.49
17:4:211:ARG:HA	17:4:214:MET:HE2	1.94	0.49
17:4:238:HIS:HE2	21:4:4003:CLA:HED3	1.78	0.49
21:A:9013:CLA:O1A	2:B:525:LEU:HD11	2.13	0.48
2:B:411:MET:HE3	21:B:1227:CLA:HHD	1.95	0.48
21:B:1207:CLA:HAB	9:I:14:LEU:CG	2.43	0.48
12:L:87:PRO:HD3	12:L:101:GLU:CD	2.32	0.48
21:1:1004:CLA:H152	21:1:1005:CLA:HMB1	1.95	0.48
1:A:401:TRP:HB3	21:A:1126:CLA:HMC3	1.95	0.48
1:A:615:HIS:HD2	21:A:1135:CLA:HMC1	1.77	0.48
21:A:1129:CLA:HHC	21:A:1129:CLA:CBB	2.23	0.48
8:H:123:GLY:O	8:H:125:ILE:HG13	2.13	0.48
10:J:11:ALA:CB	10:J:12:PRO:CD	2.88	0.48
16:3:241:GLY:O	16:3:245:GLN:HB2	2.12	0.48
17:4:168:VAL:O	17:4:179:LEU:HB2	2.13	0.48
21:4:4001:CLA:HBB1	21:4:4001:CLA:CMB	2.21	0.48
21:4:4005:CLA:HBC3	21:4:4005:CLA:CMC	2.43	0.48
7:G:65:SER:CA	7:G:68:THR:CG2	2.85	0.48
7:G:76:ARG:HH12	21:G:1002:CLA:C1C	2.27	0.48
8:H:97:THR:HG21	12:L:96:LEU:HD12	1.93	0.48
10:J:2:ARG:CG	21:J:6015:CLA:HBB2	2.43	0.48
11:K:98:PRO:HA	11:K:101:PHE:CD1	2.48	0.48
12:L:204:LEU:HD23	12:L:207:LEU:HD21	1.95	0.48
13:N:155:GLU:OE2	13:N:159:LYS:HD3	2.14	0.48
13:N:160:PHE:CD1	13:N:161:LYS:N	2.81	0.48
14:1:102:LEU:CD1	21:1:1006:CLA:O1D	2.61	0.48
14:1:202:GLN:NE2	14:1:208:THR:CA	2.73	0.48
21:1:1001:CLA:C3	21:1:1002:CLA:HBC1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:A:1119:CLA:H2	21:A:1123:CLA:HBB1	1.94	0.48
21:A:1138:CLA:H71	21:B:1229:CLA:H42	1.95	0.48
2:B:173:SER:O	2:B:177:HIS:ND1	2.31	0.48
19:B:6006:BCR:HC21	21:B:1211:CLA:HMA1	1.95	0.48
21:B:1205:CLA:CGA	21:B:1205:CLA:C1A	2.91	0.48
21:B:1207:CLA:H41	21:B:1207:CLA:H61	1.55	0.48
14:1:61:PHE:CE2	26:1:1502:LUT:C4	2.95	0.48
26:1:1502:LUT:C17	21:1:1004:CLA:C6	2.86	0.48
15:2:170:GLU:OE1	15:2:173:ARG:NE	2.47	0.48
16:3:221:LEU:O	16:3:223:GLU:HA	2.13	0.48
21:3:3012:CLA:CED	21:3:3012:CLA:CHA	2.91	0.48
17:4:75:ASN:HB2	21:4:4004:CLA:HMD1	1.95	0.48
1:A:279:ASP:OD1	1:A:280:PHE:N	2.46	0.48
1:A:308:ILE:HD11	21:A:1115:CLA:HMC2	1.95	0.48
2:B:85:ARG:NH2	8:H:135:PRO:HD3	2.28	0.48
2:B:299:HIS:CE1	21:B:1219:CLA:HMD1	2.48	0.48
21:B:1220:CLA:CMA	21:B:1240:CLA:HED2	2.44	0.48
21:B:1230:CLA:H91	21:F:1301:CLA:HMA1	1.95	0.48
4:D:101:TYR:CE2	4:D:135:LYS:HB2	2.48	0.48
7:G:76:ARG:NH1	21:G:1002:CLA:CHC	2.73	0.48
8:H:124:ASP:N	8:H:124:ASP:OD1	2.47	0.48
12:L:121:ARG:HB2	12:L:122:ASN:CB	2.44	0.48
12:L:171:LYS:O	12:L:172:GLN:HB3	2.12	0.48
14:1:111:TRP:CH2	14:1:129:GLY:O	2.66	0.48
21:1:1003:CLA:H62	20:1:1801:LHG:C18	2.43	0.48
15:2:166:ILE:O	15:2:166:ILE:HG22	2.13	0.48
1:A:291:THR:HG23	1:A:293:GLY:H	1.78	0.48
19:A:6002:BCR:H351	19:A:6002:BCR:H15C	1.69	0.48
21:A:1123:CLA:H111	21:A:1123:CLA:H142	1.66	0.48
2:B:188:LEU:HD21	19:B:6004:BCR:H23C	1.95	0.48
2:B:439:HIS:CE1	2:B:453:ILE:HG13	2.48	0.48
2:B:463:ILE:HG22	2:B:467:HIS:HE1	1.77	0.48
21:B:1205:CLA:HAB	21:B:1206:CLA:HAA2	1.95	0.48
7:G:65:SER:O	7:G:68:THR:HG23	2.14	0.48
13:N:120:VAL:HA	13:N:131:PHE:CD2	2.48	0.48
15:2:110:GLU:HG3	21:2:2004:CLA:NB	2.29	0.48
15:2:113:HIS:CG	21:2:2004:CLA:CBB	2.96	0.48
15:2:252:PRO:CD	15:2:253:ILE:N	2.77	0.48
21:2:2010:CLA:C2C	21:2:2013:CLA:HMC3	2.43	0.48
17:4:246:THR:HG21	17:4:248:VAL:CG2	2.34	0.48
21:4:4003:CLA:HBB1	26:4:4501:LUT:H182	1.90	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:308:ILE:O	1:A:312:ILE:HG22	2.13	0.48
1:A:354:TRP:HB3	21:A:1103:CLA:HAC1	1.96	0.48
1:A:434:ARG:O	1:A:438:HIS:N	2.44	0.48
21:A:1111:CLA:H3A	21:A:1111:CLA:CGA	2.43	0.48
2:B:5:ILE:HG12	2:B:6:PRO:HA	1.96	0.48
21:B:1224:CLA:H203	19:I:6018:BCR:H371	1.94	0.48
4:D:79:THR:HB	4:D:127:PRO:HB2	1.96	0.48
19:J:6012:BCR:H19C	19:J:6013:BCR:C36	2.44	0.48
12:L:173:PRO:O	12:L:173:PRO:HD2	2.13	0.48
14:1:91:VAL:CG1	26:1:1501:LUT:H192	2.43	0.48
14:1:170:TYR:H	14:1:170:TYR:HD1	1.62	0.48
26:1:1501:LUT:C32	21:1:1001:CLA:HMC2	2.43	0.48
17:4:160:GLN:CG	21:4:4005:CLA:HMA3	2.44	0.48
21:4:4005:CLA:H2A	21:4:4005:CLA:CGD	2.44	0.48
1:A:267:THR:HB	1:A:277:TYR:OH	2.13	0.48
2:B:389:HIS:HA	2:B:392:ILE:HD12	1.96	0.48
21:B:1224:CLA:H141	21:B:1224:CLA:H162	1.75	0.48
4:D:79:THR:OG1	4:D:129:LEU:HB2	2.14	0.48
8:H:68:GLY:C	8:H:70:TRP:H	2.17	0.48
21:1:1009:CLA:HMD3	27:4:4503:NEX:H203	1.95	0.48
16:3:96:PHE:CD1	16:3:101:TRP:HD1	2.32	0.48
16:3:168:GLY:O	16:3:170:ALA:N	2.46	0.48
16:3:247:LEU:HD11	21:3:3014:CLA:HAA1	1.95	0.48
21:4:4003:CLA:HAA1	21:4:4003:CLA:CBD	2.42	0.48
26:4:4501:LUT:C35	26:4:4501:LUT:C20	2.85	0.48
3:C:10:THR:HA	5:E:101:TYR:CE2	2.48	0.48
6:F:207:VAL:CG2	6:F:208:PHE:N	2.77	0.48
11:K:55:VAL:HA	11:K:58:VAL:HG22	1.95	0.48
12:L:58:GLN:HB2	12:L:70:GLU:OE1	2.14	0.48
12:L:150:ILE:O	12:L:150:ILE:HG22	2.14	0.48
13:N:161:LYS:HD2	13:N:168:TRP:CE3	2.49	0.48
14:1:185:VAL:O	14:1:188:GLY:N	2.46	0.48
21:1:1002:CLA:CMB	21:1:1007:CLA:C3D	2.92	0.48
21:1:1003:CLA:H171	21:1:1008:CLA:C7	2.44	0.48
21:2:2012:CLA:CHD	21:2:2012:CLA:CBC	2.90	0.48
17:4:110:MET:CE	17:4:217:PHE:HD1	2.26	0.48
17:4:171:ASP:CB	27:4:4503:NEX:C12	2.85	0.48
17:4:171:ASP:OD1	27:4:4503:NEX:H191	2.13	0.48
21:4:4014:CLA:CAA	21:4:4014:CLA:CBD	2.91	0.48
1:A:41:SER:HB3	1:A:44:ILE:HG12	1.96	0.48
21:B:1238:CLA:H18	19:I:6018:BCR:H353	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:91:VAL:HG23	5:E:104:VAL:HG12	1.96	0.48
12:L:104:LEU:CD2	19:L:6020:BCR:C12	2.86	0.48
15:2:110:GLU:HG3	21:2:2004:CLA:C1B	2.44	0.48
15:2:235:MET:HB3	26:2:2502:LUT:C15	2.44	0.48
21:2:2002:CLA:HMB1	26:2:2501:LUT:H193	1.96	0.48
17:4:155:GLU:HG3	21:4:4012:CLA:C4B	2.44	0.48
21:4:4002:CLA:O1A	21:4:4002:CLA:HMA2	2.13	0.48
26:4:4502:LUT:H373	26:4:4502:LUT:O23	2.13	0.48
21:A:1136:CLA:H41	21:A:1136:CLA:H61	1.64	0.47
2:B:129:LEU:HD23	21:B:1211:CLA:HED3	1.96	0.47
20:B:7004:LHG:C34	20:B:7004:LHG:C18	2.86	0.47
19:B:6005:BCR:H333	21:B:1208:CLA:H92	1.95	0.47
21:B:1213:CLA:CBC	21:B:1214:CLA:HMC2	2.44	0.47
7:G:124:VAL:HG21	21:G:1002:CLA:CMD	2.43	0.47
12:L:159:SER:N	12:L:178:THR:CG2	2.75	0.47
15:2:72:PHE:HD1	15:2:73:PRO:HD2	1.78	0.47
21:3:3001:CLA:HBA2	21:3:3001:CLA:H3A	1.53	0.47
21:3:3001:CLA:HBC2	21:3:3011:CLA:HMA1	1.95	0.47
21:3:3009:CLA:CGA	21:3:3009:CLA:CBD	2.92	0.47
21:3:3010:CLA:HBA1	21:3:3010:CLA:CHA	2.44	0.47
21:A:9012:CLA:HMB3	21:B:9010:CLA:H18	1.96	0.47
24:B:7101:DGD:HAT1	21:B:1201:CLA:HBC1	1.96	0.47
21:B:1213:CLA:CBA	21:B:1213:CLA:CHA	2.93	0.47
21:B:1226:CLA:H61	21:B:1226:CLA:H41	1.59	0.47
3:C:43:PRO:HA	4:D:185:VAL:HG11	1.96	0.47
21:1:1009:CLA:H2	21:4:4005:CLA:CMD	2.10	0.47
16:3:167:MET:HA	16:3:167:MET:HE2	1.92	0.47
21:A:1124:CLA:O2D	21:A:1125:CLA:CAD	2.63	0.47
5:E:79:GLN:HG2	5:E:84:TYR:CE1	2.49	0.47
19:L:6019:BCR:H371	19:L:6019:BCR:H24C	1.68	0.47
21:1:1006:CLA:C1B	21:1:1013:CLA:C2	2.93	0.47
15:2:112:VAL:HG12	15:2:116:TRP:CD1	2.49	0.47
16:3:219:LYS:HG3	21:3:3001:CLA:CBA	2.44	0.47
17:4:178:SER:C	21:4:4014:CLA:CMA	2.83	0.47
18:A:5001:PQN:H161	18:A:5001:PQN:H141	1.69	0.47
21:A:1105:CLA:HBA2	21:A:1107:CLA:H12	1.96	0.47
19:B:6004:BCR:C35	7:G:133:ILE:HD11	2.44	0.47
21:F:1303:CLA:HBA2	21:F:1303:CLA:HED1	1.92	0.47
21:2:2009:CLA:C1	16:3:184:MET:O	2.62	0.47
16:3:157:TYR:CD1	16:3:157:TYR:N	2.83	0.47
16:3:170:ALA:HB1	16:3:174:ARG:NH2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:3:208:PHE:CD1	16:3:208:PHE:N	2.81	0.47
21:3:3012:CLA:H2A	21:3:3012:CLA:CED	2.18	0.47
17:4:66:TYR:CE1	17:4:84:GLU:HG3	2.49	0.47
17:4:151:PHE:HD1	27:4:4503:NEX:H221	1.78	0.47
21:A:1126:CLA:H203	21:A:9012:CLA:H13	1.96	0.47
2:B:182:LEU:HD13	21:B:1210:CLA:HHB	1.97	0.47
2:B:343:VAL:HG21	21:B:1223:CLA:H51	1.97	0.47
2:B:659:THR:CA	21:B:9023:CLA:HAB	2.44	0.47
2:B:676:GLU:HG2	3:C:81:TYR:HE1	1.80	0.47
19:F:6014:BCR:H351	19:F:6014:BCR:H15C	1.64	0.47
14:1:223:HIS:N	14:1:223:HIS:HD1	2.12	0.47
21:1:1009:CLA:CHD	27:4:4503:NEX:C13	2.92	0.47
20:1:1801:LHG:H351	21:4:4015:CLA:HMA2	1.95	0.47
17:4:170:GLN:CG	17:4:173:ILE:CG2	2.86	0.47
17:4:197:ALA:O	17:4:199:THR:HG22	2.15	0.47
1:A:217:SER:O	21:A:1112:CLA:HMC3	2.15	0.47
21:A:1140:CLA:H62	21:A:1140:CLA:H41	1.67	0.47
2:B:246:THR:CG2	2:B:248:GLN:CG	2.85	0.47
21:B:1208:CLA:H12	21:B:1209:CLA:C4D	2.45	0.47
4:D:166:TYR:OH	4:D:169:PRO:HD2	2.14	0.47
7:G:114:LEU:CD2	7:G:116:LYS:HB3	2.44	0.47
10:J:29:ILE:HG23	25:J:5001:LMG:H292	1.95	0.47
12:L:159:SER:HA	12:L:177:GLN:HB2	1.97	0.47
21:1:1007:CLA:HBD	21:1:1007:CLA:HAA1	1.97	0.47
15:2:166:ILE:HD13	21:2:2012:CLA:HMC3	1.96	0.47
15:2:235:MET:HB3	26:2:2502:LUT:C14	2.45	0.47
21:2:2003:CLA:CBC	21:2:2003:CLA:CHD	2.85	0.47
16:3:106:GLU:HA	16:3:109:ASN:ND2	2.29	0.47
16:3:174:ARG:HH22	21:3:3011:CLA:C3D	2.27	0.47
17:4:175:LYS:O	17:4:175:LYS:HG3	2.14	0.47
21:4:4008:CLA:HED2	21:4:4008:CLA:OBD	2.14	0.47
21:4:4008:CLA:C2	21:4:4008:CLA:HHB	2.44	0.47
26:4:4502:LUT:H192	26:4:4502:LUT:H7	1.82	0.47
1:A:330:ILE:HG23	1:A:331:LEU:N	2.30	0.47
1:A:602:LEU:HD21	20:A:7001:LHG:H321	1.96	0.47
21:A:1109:CLA:H112	21:A:1109:CLA:H91	1.71	0.47
21:A:1109:CLA:H62	21:A:1109:CLA:H41	1.51	0.47
2:B:292:ARG:NH1	7:G:91:VAL:HG21	2.30	0.47
2:B:302:LYS:HD2	7:G:94:GLN:HG3	1.96	0.47
2:B:438:VAL:O	2:B:442:VAL:HG23	2.15	0.47
2:B:523:ILE:HG21	21:B:1234:CLA:HAB	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B:6009:BCR:H321	19:B:6009:BCR:HC8	1.97	0.47
21:B:1207:CLA:HAB	9:I:14:LEU:CD2	2.44	0.47
21:B:1237:CLA:H41	21:B:1237:CLA:H62	1.53	0.47
3:C:28:MET:CE	3:C:39:ILE:C	2.82	0.47
9:I:11:LEU:H	9:I:11:LEU:HD12	1.80	0.47
13:N:135:GLN:N	13:N:136:ASP:HA	2.29	0.47
14:1:85:ARG:NE	21:1:1001:CLA:CHD	2.78	0.47
14:1:142:ILE:HG21	21:1:1012:CLA:HMC3	1.96	0.47
14:1:211:LEU:HD21	21:1:1003:CLA:H2A	1.95	0.47
14:1:226:ILE:N	14:1:227:GLY:CA	2.71	0.47
16:3:204:PRO:CG	16:3:209:PHE:HB3	2.44	0.47
1:A:133:ASN:HB3	1:A:141:ARG:HB3	1.96	0.47
21:A:1119:CLA:HBA1	21:A:1123:CLA:C3B	2.45	0.47
2:B:174:ARG:NE	21:B:1221:CLA:HMD1	2.30	0.47
2:B:286:ILE:HG13	2:B:287:GLY:N	2.30	0.47
21:B:1215:CLA:H41	21:B:1215:CLA:H62	1.66	0.47
21:B:1216:CLA:H143	21:B:1216:CLA:H111	1.80	0.47
21:B:1216:CLA:CMB	21:B:1221:CLA:HMA3	2.43	0.47
4:D:171:ASP:OD2	4:D:182:ARG:HG2	2.15	0.47
6:F:181:TYR:O	6:F:185:ILE:HG12	2.15	0.47
12:L:209:LEU:HA	12:L:210:PRO:HA	1.56	0.47
14:1:149:ARG:CD	21:1:1011:CLA:C1D	2.92	0.47
15:2:150:GLU:O	21:2:2006:CLA:HMB2	2.15	0.47
15:2:228:ILE:HG21	15:2:232:ARG:NH2	2.30	0.47
21:2:2002:CLA:CMA	26:2:2501:LUT:C20	2.93	0.47
1:A:475:ASP:HB3	21:A:1132:CLA:HED2	1.97	0.47
1:A:491:TRP:HE3	1:A:492:ILE:HD12	1.80	0.47
21:B:1227:CLA:HBA1	21:B:1240:CLA:C4	2.45	0.47
12:L:114:PHE:CZ	12:L:137:LEU:HD22	2.48	0.47
26:1:1501:LUT:H403	21:1:1001:CLA:CBB	2.45	0.47
21:1:1009:CLA:CBB	17:4:156:ILE:CG1	2.85	0.47
16:3:119:GLY:CA	21:3:3006:CLA:HBB1	2.45	0.47
16:3:167:MET:CE	16:3:167:MET:CA	2.85	0.47
17:4:104:MET:CB	26:4:4501:LUT:H35	2.44	0.47
1:A:146:THR:HB	1:A:394:SER:OG	2.15	0.47
1:A:661:ALA:O	1:A:663:GLN:N	2.47	0.47
19:B:6009:BCR:H351	19:B:6009:BCR:H15C	1.62	0.47
21:B:1227:CLA:CBA	21:B:1240:CLA:C4	2.91	0.47
21:B:1240:CLA:H62	21:B:1240:CLA:H41	1.62	0.47
21:F:1303:CLA:HBB1	21:4:4012:CLA:H171	1.95	0.47
12:L:85:ASN:HB3	21:L:1501:CLA:HAC1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1:46:PRO:N	21:4:4005:CLA:CBA	2.76	0.47
14:1:143:ALA:N	21:1:1012:CLA:CBB	2.78	0.47
21:1:1006:CLA:CBA	21:1:1014:CLA:C3C	2.91	0.47
21:1:1006:CLA:C2B	21:1:1013:CLA:H43	2.44	0.47
21:1:1013:CLA:H41	21:1:1013:CLA:C7	2.41	0.47
15:2:172:ARG:HA	21:4:4009:CLA:HED2	1.97	0.47
21:2:2002:CLA:CMA	26:2:2501:LUT:H201	2.44	0.47
21:2:2002:CLA:HBA2	26:2:2501:LUT:C33	2.45	0.47
26:2:2501:LUT:C28	26:2:2501:LUT:C36	2.92	0.47
17:4:171:ASP:HA	27:4:4503:NEX:H10	1.96	0.47
2:B:292:ARG:HH12	7:G:107:ARG:NH2	2.10	0.46
2:B:519:VAL:HG11	2:B:593:TYR:HB2	1.97	0.46
19:B:6006:BCR:H311	21:B:1225:CLA:H52	1.97	0.46
3:C:41:SER:OG	4:D:184:GLY:O	2.19	0.46
4:D:104:THR:HG22	4:D:129:LEU:HD22	1.97	0.46
12:L:109:PHE:CE2	21:L:1502:CLA:CMB	2.98	0.46
14:1:111:TRP:O	14:1:114:LEU:HD12	2.15	0.46
21:1:1009:CLA:C3D	21:4:4005:CLA:HAC1	2.45	0.46
21:3:3010:CLA:CHD	21:3:3010:CLA:CBC	2.85	0.46
17:4:127:TRP:HE1	17:4:231:PRO:CD	2.28	0.46
17:4:151:PHE:CD1	27:4:4503:NEX:H221	2.50	0.46
17:4:226:VAL:HG22	17:4:227:THR:H	1.80	0.46
21:4:4002:CLA:CHD	21:4:4007:CLA:CMB	2.88	0.46
21:4:4009:CLA:HHC	21:4:4009:CLA:CBB	2.45	0.46
19:A:6017:BCR:H392	19:A:6017:BCR:H23C	1.97	0.46
21:A:1128:CLA:CHA	21:A:1128:CLA:HBA1	2.45	0.46
2:B:406:ASN:O	2:B:410:ARG:HG2	2.15	0.46
2:B:411:MET:HE1	21:B:1227:CLA:C1D	2.45	0.46
2:B:708:VAL:O	2:B:712:HIS:ND1	2.48	0.46
6:F:190:LYS:O	6:F:193:GLN:HB3	2.15	0.46
7:G:140:LEU:C	7:G:140:LEU:CD2	2.82	0.46
14:1:96:VAL:HG22	14:1:97:PRO:HD3	1.98	0.46
14:1:131:LEU:O	14:1:135:LEU:CG	2.62	0.46
21:1:1003:CLA:C15	21:1:1003:CLA:H193	2.45	0.46
15:2:118:MET:SD	21:2:2001:CLA:C3C	3.03	0.46
21:2:2013:CLA:CMC	21:2:2013:CLA:CBC	2.86	0.46
16:3:210:ASN:OD1	16:3:210:ASN:N	2.44	0.46
26:4:4502:LUT:H392	26:4:4502:LUT:H27	1.81	0.46
1:A:519:ASP:OD1	1:A:520:LEU:N	2.48	0.46
21:A:1102:CLA:HBA1	21:A:1102:CLA:H3A	1.74	0.46
21:A:1136:CLA:H143	21:A:1136:CLA:H111	1.72	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:236:ASN:O	2:B:252:THR:N	2.43	0.46
21:B:1204:CLA:H3A	21:B:1205:CLA:HMB3	1.97	0.46
21:B:1207:CLA:HED2	19:I:6020:BCR:HC7	1.97	0.46
21:B:1213:CLA:CBD	21:B:1213:CLA:CBA	2.84	0.46
6:F:115:PRO:O	6:F:119:ILE:HG13	2.15	0.46
12:L:172:GLN:HE21	12:L:172:GLN:C	2.19	0.46
14:1:177:PHE:CE2	14:1:181:LYS:CE	2.98	0.46
14:1:217:HIS:O	14:1:218:LEU:HD23	2.16	0.46
21:1:1006:CLA:C2B	21:1:1013:CLA:C2	2.94	0.46
15:2:161:VAL:CG1	15:2:165:PHE:HE2	2.26	0.46
17:4:207:ILE:O	17:4:209:ASN:N	2.49	0.46
1:A:339:THR:HG21	20:A:7003:LHG:C2	2.45	0.46
1:A:685:VAL:CG2	19:A:6011:BCR:H362	2.45	0.46
2:B:711:VAL:HG11	21:B:1239:CLA:HED3	1.97	0.46
6:F:152:GLY:O	6:F:157:TRP:NE1	2.41	0.46
10:J:25:LEU:O	10:J:29:ILE:HG12	2.15	0.46
13:N:101:LEU:HG	13:N:103:ASP:H	1.80	0.46
14:1:137:ILE:HD12	14:1:138:GLU:N	2.31	0.46
20:1:1801:LHG:C21	17:4:148:ILE:HG12	2.41	0.46
15:2:83:GLY:HA2	15:2:88:ASP:CG	2.35	0.46
15:2:235:MET:HE2	21:2:2004:CLA:HMC3	1.90	0.46
15:2:259:HIS:NE2	21:2:2003:CLA:CMD	2.71	0.46
16:3:102:LEU:HD23	16:3:102:LEU:HA	1.75	0.46
17:4:96:GLU:OE2	21:4:4004:CLA:HMA3	2.16	0.46
17:4:102:TRP:CB	17:4:102:TRP:C	2.84	0.46
17:4:180:PRO:HD2	17:4:180:PRO:O	2.14	0.46
1:A:316:MET:O	1:A:325:HIS:ND1	2.46	0.46
19:A:6011:BCR:H351	19:A:6011:BCR:H15C	1.68	0.46
21:A:1124:CLA:HMB2	21:A:1137:CLA:HBA1	1.98	0.46
3:C:80:ALA:HB2	4:D:134:ARG:HD3	1.98	0.46
11:K:52:SER:HA	11:K:55:VAL:HG12	1.97	0.46
12:L:166:LEU:C	12:L:168:GLY:H	2.15	0.46
21:1:1003:CLA:H62	21:1:1003:CLA:H41	1.58	0.46
21:1:1009:CLA:HHD	27:4:4503:NEX:C13	2.44	0.46
21:2:2004:CLA:C10	21:2:2005:CLA:HMB3	2.45	0.46
21:2:2005:CLA:HAB	26:2:2502:LUT:C20	2.46	0.46
26:2:2501:LUT:H32	26:2:2501:LUT:C39	2.43	0.46
16:3:254:TYR:CD1	16:3:255:GLN:HG2	2.50	0.46
21:3:3006:CLA:H143	21:3:3006:CLA:H162	1.67	0.46
1:A:327:ILE:HA	1:A:330:ILE:HG22	1.98	0.46
1:A:327:ILE:O	1:A:331:LEU:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:THR:CG2	20:A:7003:LHG:C2	2.94	0.46
1:A:458:PHE:O	1:A:462:ILE:HG12	2.15	0.46
3:C:14:CYS:SG	3:C:16:GLN:HB2	2.56	0.46
21:G:1001:CLA:CBC	21:G:1001:CLA:CMC	2.85	0.46
14:1:166:ASP:OD2	14:1:171:SER:HB3	2.16	0.46
21:1:1006:CLA:HMB2	21:1:1013:CLA:CMA	2.43	0.46
15:2:158:LEU:CD1	15:2:158:LEU:C	2.84	0.46
21:2:2007:CLA:HBA1	21:2:2007:CLA:H3A	1.69	0.46
1:A:692:PHE:HA	18:A:5001:PQN:H9	1.97	0.46
21:A:1108:CLA:HBB1	21:A:1111:CLA:HED2	1.97	0.46
21:A:1110:CLA:H52	16:3:89:ASP:OD2	2.15	0.46
21:A:9013:CLA:H42	21:A:9013:CLA:O2A	2.15	0.46
21:B:1214:CLA:O1D	21:B:1215:CLA:HHB	2.16	0.46
12:L:207:LEU:HB3	12:L:208:ASP:H	1.54	0.46
14:1:85:ARG:NH2	21:1:1001:CLA:ND	2.64	0.46
14:1:204:ALA:C	14:1:206:PRO:HD3	2.35	0.46
14:1:207:GLY:O	14:1:211:LEU:HB2	2.16	0.46
16:3:164:MET:HE1	21:3:3012:CLA:HBC3	1.98	0.46
19:A:6008:BCR:H392	19:A:6008:BCR:H282	1.23	0.46
21:B:1220:CLA:H61	21:B:1220:CLA:H41	1.60	0.46
4:D:190:ARG:O	4:D:191:SER:HB3	2.15	0.46
7:G:114:LEU:CD1	7:G:116:LYS:HB3	2.45	0.46
12:L:105:ALA:HB2	21:L:1501:CLA:HMA1	1.96	0.46
14:1:158:LYS:O	14:1:159:LYS:HG3	2.15	0.46
21:1:1010:CLA:HED2	21:1:1010:CLA:CAD	2.45	0.46
15:2:248:THR:O	15:2:250:THR:N	2.49	0.46
21:2:2009:CLA:HBC1	21:3:3009:CLA:O2A	2.12	0.46
21:4:4014:CLA:HAA1	21:4:4014:CLA:CBD	2.45	0.46
1:A:238:ASP:OD1	1:A:240:LYS:HG2	2.16	0.46
23:A:9011:CL0:CBB	2:B:624:LEU:HD13	2.45	0.46
21:B:1225:CLA:HBA2	21:B:1225:CLA:H3A	1.41	0.46
21:B:1240:CLA:HBC3	21:B:1240:CLA:CHD	2.46	0.46
4:D:78:ASN:C	4:D:79:THR:HG22	2.35	0.46
7:G:72:LEU:HD23	7:G:72:LEU:HA	1.80	0.46
7:G:116:LYS:HG2	21:G:1002:CLA:C1B	2.45	0.46
10:J:2:ARG:N	15:2:98:SER:HG	2.13	0.46
14:1:64:LEU:CD1	26:1:1502:LUT:H163	2.46	0.46
21:1:1006:CLA:C1B	21:1:1013:CLA:C4	2.92	0.46
21:1:1009:CLA:C12	21:1:1009:CLA:H71	2.45	0.46
15:2:96:LEU:O	15:2:106:ASN:ND2	2.49	0.46
17:4:170:GLN:NE2	21:4:4014:CLA:NB	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:4:234:ASN:O	17:4:238:HIS:CD2	2.68	0.46
6:F:95:GLU:HB2	6:F:130:PHE:CD2	2.51	0.46
7:G:140:LEU:CD2	7:G:141:THR:N	2.78	0.46
14:1:94:ILE:CG2	14:1:105:TRP:CB	2.85	0.46
14:1:183:LYS:NZ	21:1:1002:CLA:CMC	2.79	0.46
21:1:1009:CLA:H162	21:1:1009:CLA:H121	1.57	0.46
15:2:71:TRP:CD1	15:2:90:GLY:O	2.69	0.46
15:2:123:GLY:O	15:2:127:PRO:HD3	2.16	0.46
21:2:2002:CLA:HBA2	26:2:2501:LUT:C32	2.46	0.46
21:2:2003:CLA:CBB	21:2:2003:CLA:HHC	2.46	0.46
17:4:101:ARG:HB2	21:4:4011:CLA:CED	2.46	0.46
1:A:339:THR:HG21	20:A:7003:LHG:HC2	1.97	0.45
21:A:1101:CLA:H151	19:J:6012:BCR:H14C	1.98	0.45
23:A:9011:CL0:CMB	21:A:9012:CLA:HMD1	2.46	0.45
21:A:9012:CLA:HMB3	21:B:9010:CLA:C18	2.46	0.45
2:B:7:ARG:HD2	2:B:7:ARG:HA	1.68	0.45
2:B:660:GLY:O	2:B:664:LEU:HG	2.16	0.45
4:D:159:PHE:HB3	4:D:160:PRO:CD	2.46	0.45
7:G:116:LYS:HD3	7:G:118:ALA:N	2.31	0.45
21:1:1009:CLA:H3A	21:1:1009:CLA:HBA2	1.67	0.45
21:2:2003:CLA:H52	21:2:2003:CLA:H93	1.96	0.45
21:2:2014:CLA:HMB3	26:2:2501:LUT:O23	2.16	0.45
16:3:210:ASN:HB3	21:3:3001:CLA:O1D	2.15	0.45
1:A:339:THR:CG2	20:A:7003:LHG:HC2	2.47	0.45
1:A:429:ASN:OD1	1:A:431:LEU:HD23	2.16	0.45
1:A:682:ALA:HB1	1:A:745:THR:OG1	2.16	0.45
21:A:1106:CLA:CBB	19:J:6012:BCR:H363	2.46	0.45
2:B:282:PHE:HZ	21:B:1213:CLA:HBB2	1.81	0.45
2:B:304:ILE:O	2:B:308:HIS:ND1	2.46	0.45
21:B:1203:CLA:H41	21:B:1203:CLA:H61	1.54	0.45
21:B:1209:CLA:HHC	21:B:1209:CLA:HBB1	1.98	0.45
21:B:1215:CLA:CGA	21:B:1215:CLA:H3A	2.43	0.45
6:F:88:SER:OG	6:F:91:PHE:HB3	2.16	0.45
6:F:207:VAL:HG23	6:F:208:PHE:CD2	2.52	0.45
21:F:1303:CLA:C2B	26:4:4502:LUT:C20	2.92	0.45
21:G:1001:CLA:H41	21:G:1001:CLA:H62	1.64	0.45
12:L:64:PRO:HG2	12:L:65:PHE:HE1	1.66	0.45
14:1:192:LEU:CD2	26:1:1502:LUT:H35	2.45	0.45
21:1:1008:CLA:H121	21:1:1008:CLA:C9	2.45	0.45
1:A:435:VAL:HA	1:A:438:HIS:CE1	2.51	0.45
1:A:582:ASP:OD2	3:C:53:ARG:NH1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:697:ARG:HD3	2:B:566:GLY:HA3	1.99	0.45
21:A:1106:CLA:C1C	21:A:1126:CLA:H51	2.46	0.45
2:B:82:PHE:HE1	2:B:363:GLN:HG2	1.80	0.45
2:B:499:ASN:O	2:B:503:GLU:HG3	2.17	0.45
21:B:1214:CLA:H93	21:B:1214:CLA:H62	1.78	0.45
6:F:198:ILE:C	6:F:200:VAL:N	2.69	0.45
14:1:111:TRP:HH2	14:1:129:GLY:C	2.20	0.45
14:1:205:TYR:N	14:1:206:PRO:HD3	2.31	0.45
1:A:432:LEU:O	1:A:436:LEU:HG	2.17	0.45
21:A:1139:CLA:H72	21:A:1139:CLA:H112	1.75	0.45
2:B:242:HIS:HE1	2:B:246:THR:O	1.99	0.45
2:B:676:GLU:HG2	3:C:81:TYR:CE1	2.52	0.45
19:B:6006:BCR:H392	19:B:6006:BCR:H282	1.26	0.45
21:B:1229:CLA:H191	21:B:1235:CLA:H111	1.98	0.45
7:G:114:LEU:C	7:G:116:LYS:H	2.18	0.45
13:N:92:LEU:HD23	13:N:92:LEU:O	2.16	0.45
13:N:106:ARG:O	13:N:109:THR:OG1	2.25	0.45
14:1:131:LEU:CD2	14:1:135:LEU:CD1	2.94	0.45
14:1:192:LEU:HD22	26:1:1502:LUT:C35	2.46	0.45
21:1:1013:CLA:H91	21:1:1013:CLA:H112	1.79	0.45
15:2:227:GLU:CD	21:2:2001:CLA:C4D	2.84	0.45
16:3:159:LEU:O	16:3:162:LEU:N	2.44	0.45
17:4:83:ALA:HB2	21:4:4004:CLA:O1A	2.16	0.45
17:4:99:ASN:ND2	21:4:4004:CLA:CBB	2.73	0.45
21:4:4001:CLA:H61	21:4:4002:CLA:H11	1.96	0.45
21:4:4013:CLA:H3A	21:4:4013:CLA:HBA1	1.65	0.45
1:A:564:ARG:NE	4:D:114:GLU:OE2	2.37	0.45
21:B:1205:CLA:O1A	21:B:1224:CLA:HBD	2.16	0.45
21:B:1213:CLA:HMB1	21:B:1213:CLA:CBB	2.46	0.45
5:E:65:PRO:C	5:E:66:ILE:CG1	2.85	0.45
10:J:2:ARG:N	15:2:98:SER:HB2	2.31	0.45
12:L:50:GLU:HA	12:L:51:LYS:HA	1.75	0.45
19:L:6020:BCR:H351	19:L:6020:BCR:H15C	1.70	0.45
14:1:105:TRP:CE2	14:1:202:GLN:HG3	2.51	0.45
14:1:201:GLN:NE2	14:1:211:LEU:HD13	2.30	0.45
21:1:1002:CLA:H41	21:1:1002:CLA:H62	1.60	0.45
21:1:1009:CLA:CMA	20:1:1801:LHG:H282	2.47	0.45
21:2:2002:CLA:HBA2	26:2:2501:LUT:C34	2.47	0.45
16:3:112:PHE:CZ	21:3:3012:CLA:O2D	2.69	0.45
16:3:208:PHE:HB3	21:3:3001:CLA:CED	2.47	0.45
21:4:4006:CLA:HBC1	21:4:4013:CLA:CHD	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:434:ARG:N	1:A:437:ARG:HG3	2.25	0.45
21:A:1105:CLA:HMA1	21:A:1106:CLA:HMB3	1.99	0.45
21:A:1116:CLA:HBA2	21:A:1116:CLA:H3A	1.63	0.45
2:B:292:ARG:HH22	7:G:91:VAL:HG21	1.75	0.45
2:B:628:SER:CB	21:B:9010:CLA:CBC	2.94	0.45
9:I:11:LEU:O	9:I:15:LEU:N	2.49	0.45
19:I:6020:BCR:H351	19:I:6020:BCR:H15C	1.67	0.45
14:1:88:MET:HB3	26:1:1501:LUT:H15	1.99	0.45
14:1:146:GLU:OE1	14:1:149:ARG:CZ	2.62	0.45
14:1:168:LEU:CB	14:1:170:TYR:CE1	2.85	0.45
14:1:170:TYR:HD2	14:1:180:TYR:CE2	2.29	0.45
21:1:1011:CLA:HHC	21:1:1011:CLA:CBB	2.46	0.45
15:2:114:SER:OG	15:2:115:ARG:N	2.49	0.45
21:2:2005:CLA:O2D	21:2:2005:CLA:H2A	2.17	0.45
21:2:2006:CLA:CMC	26:2:2502:LUT:C23	2.84	0.45
16:3:157:TYR:N	16:3:157:TYR:HD1	2.15	0.45
17:4:246:THR:CG2	17:4:247:ILE:N	2.80	0.45
21:4:4002:CLA:H11	26:4:4501:LUT:C39	2.43	0.45
21:4:4014:CLA:CMC	21:4:4014:CLA:CBC	2.93	0.45
1:A:375:HIS:ND1	21:A:1116:CLA:OBD	2.49	0.45
1:A:715:LYS:HD2	6:F:179:ARG:HH12	1.82	0.45
21:A:1103:CLA:H93	21:A:1103:CLA:H62	1.75	0.45
21:A:1138:CLA:H62	19:F:6014:BCR:H14C	1.99	0.45
21:B:1213:CLA:H11	21:B:1213:CLA:H51	1.64	0.45
8:H:129:VAL:O	8:H:130:LYS:HG2	2.17	0.45
12:L:53:THR:O	12:L:54:TYR:CD2	2.70	0.45
12:L:61:ASN:ND2	12:L:166:LEU:CG	2.79	0.45
26:1:1501:LUT:C24	21:1:1001:CLA:CBA	2.94	0.45
21:2:2002:CLA:CMC	21:2:2002:CLA:CBC	2.92	0.45
16:3:204:PRO:HB3	16:3:209:PHE:HA	1.94	0.45
17:4:110:MET:SD	26:4:4502:LUT:H381	2.56	0.45
17:4:155:GLU:OE1	17:4:155:GLU:HA	2.16	0.45
19:A:6011:BCR:HC8	19:A:6011:BCR:H331	1.98	0.45
21:A:1115:CLA:H41	21:A:1115:CLA:H61	1.67	0.45
21:A:1138:CLA:HMA2	21:B:1228:CLA:HMB3	1.98	0.45
2:B:243:LEU:HB2	2:B:246:THR:HB	1.98	0.45
2:B:410:ARG:O	2:B:414:HIS:CD2	2.70	0.45
2:B:711:VAL:HG11	21:B:1239:CLA:CED	2.47	0.45
7:G:116:LYS:HB2	21:G:1002:CLA:NA	2.32	0.45
12:L:71:THR:OG1	12:L:73:VAL:HG13	2.17	0.45
14:1:46:PRO:N	21:4:4005:CLA:CGA	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1:223:HIS:CD2	21:1:1003:CLA:O2A	2.70	0.45
21:1:1006:CLA:C4A	21:1:1013:CLA:H51	2.46	0.45
21:1:1009:CLA:H122	21:1:1009:CLA:C7	2.46	0.45
15:2:86:PRO:CA	15:2:225:THR:HG22	2.46	0.45
15:2:172:ARG:CZ	21:2:2011:CLA:CMC	2.94	0.45
15:2:227:GLU:HA	15:2:230:ASN:HD21	1.82	0.45
21:2:2008:CLA:HBA1	21:2:2008:CLA:H3A	1.61	0.45
16:3:202:ALA:C	16:3:204:PRO:CD	2.86	0.45
16:3:223:GLU:C	16:3:225:LYS:H	2.19	0.45
16:3:235:ALA:HA	16:3:238:ALA:HB3	1.97	0.45
21:3:3002:CLA:H2A	21:3:3002:CLA:C1	2.47	0.45
17:4:77:PHE:CE2	26:4:4502:LUT:C17	2.85	0.45
1:A:609:ILE:O	1:A:611:VAL:N	2.50	0.45
7:G:134:VAL:O	7:G:137:TYR:HB3	2.16	0.45
21:H:1000:CLA:H3A	21:H:1000:CLA:HBA1	1.56	0.45
19:L:6019:BCR:H23C	19:L:6019:BCR:H383	1.98	0.45
13:N:159:LYS:O	13:N:162:CYS:HA	2.17	0.45
14:1:160:TYR:C	21:1:1001:CLA:CED	2.85	0.45
21:2:2009:CLA:O2D	16:3:169:PHE:CZ	2.70	0.45
16:3:90:PRO:HB3	16:3:98:GLU:O	2.15	0.45
17:4:247:ILE:HD13	21:4:4003:CLA:CMD	2.35	0.45
1:A:475:ASP:CG	21:A:1132:CLA:CED	2.85	0.45
1:A:707:ILE:O	1:A:711:HIS:ND1	2.50	0.45
21:A:1101:CLA:H61	21:A:1101:CLA:H102	1.79	0.45
21:A:1126:CLA:O1D	21:A:1127:CLA:HHB	2.17	0.45
2:B:242:HIS:CE1	2:B:243:LEU:O	2.70	0.45
21:F:1303:CLA:CMB	21:4:4004:CLA:H101	2.47	0.45
7:G:116:LYS:HD3	7:G:117:SER:CA	2.46	0.45
11:K:54:ASN:O	11:K:58:VAL:HG13	2.16	0.45
12:L:110:LEU:O	12:L:114:PHE:HD2	2.00	0.45
12:L:161:ALA:CB	12:L:174:ASP:HB2	2.46	0.45
13:N:161:LYS:HD2	13:N:168:TRP:CZ3	2.52	0.45
21:1:1010:CLA:C3	21:1:1010:CLA:C9	2.85	0.45
15:2:112:VAL:O	15:2:116:TRP:CD1	2.70	0.45
21:2:2005:CLA:HBA1	21:2:2005:CLA:H3A	1.81	0.45
16:3:206:GLY:O	16:3:209:PHE:CZ	2.70	0.45
17:4:98:VAL:HG21	17:4:158:ARG:NH2	2.32	0.45
17:4:151:PHE:CA	27:4:4503:NEX:H372	2.47	0.45
17:4:249:GLN:HE21	17:4:249:GLN:HB2	1.62	0.45
21:4:4011:CLA:H2	21:4:4011:CLA:H61	1.67	0.45
2:B:428:PHE:CD2	21:B:1235:CLA:HAB	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:B:7004:LHG:H181	20:B:7004:LHG:C33	2.45	0.44
21:B:1220:CLA:H161	21:B:1220:CLA:H141	1.69	0.44
21:B:1222:CLA:HBA2	21:B:1222:CLA:H3A	1.57	0.44
21:B:1235:CLA:H52	19:F:6016:BCR:H343	1.99	0.44
21:B:1240:CLA:C4A	21:B:1240:CLA:HBA1	2.46	0.44
4:D:140:ALA:O	4:D:143:THR:HG22	2.17	0.44
19:F:6016:BCR:H371	19:F:6016:BCR:H24C	1.62	0.44
7:G:64:ILE:HA	7:G:135:ALA:HB1	1.99	0.44
13:N:116:ARG:NH2	13:N:120:VAL:O	2.50	0.44
14:1:82:ILE:CD1	21:1:1012:CLA:C3D	2.93	0.44
21:2:2004:CLA:H101	21:2:2005:CLA:HMB3	1.98	0.44
16:3:106:GLU:HA	16:3:109:ASN:HD21	1.82	0.44
17:4:96:GLU:OE1	17:4:211:ARG:HD3	2.17	0.44
21:A:1123:CLA:HMD2	21:A:1123:CLA:H13	1.98	0.44
2:B:51:PHE:CE1	21:B:1208:CLA:HBB1	2.51	0.44
2:B:391:PRO:HG3	2:B:538:ALA:HA	1.99	0.44
2:B:476:VAL:HG12	2:B:477:LEU:H	1.81	0.44
21:B:1206:CLA:H3A	21:B:1207:CLA:HBB1	1.97	0.44
21:B:9023:CLA:CGA	21:B:9023:CLA:C3A	2.94	0.44
5:E:76:ILE:HB	5:E:83:TRP:O	2.17	0.44
7:G:115:LEU:C	21:G:1002:CLA:CMA	2.85	0.44
11:K:68:GLY:HA2	11:K:69:ARG:HA	1.67	0.44
14:1:145:VAL:O	14:1:146:GLU:CB	2.65	0.44
21:1:1008:CLA:H92	21:1:1008:CLA:C5	2.39	0.44
21:2:2001:CLA:HHB	21:2:2014:CLA:HAA2	1.99	0.44
21:2:2005:CLA:HAB	26:2:2502:LUT:H203	1.98	0.44
21:2:2009:CLA:O2D	16:3:169:PHE:CE1	2.70	0.44
21:2:2010:CLA:H142	21:2:2010:CLA:H112	1.75	0.44
16:3:177:ASP:OD2	16:3:209:PHE:CE2	2.70	0.44
21:3:3008:CLA:HBC2	21:3:3008:CLA:CHD	2.46	0.44
21:3:3008:CLA:HBD	21:3:3008:CLA:CBA	2.47	0.44
17:4:171:ASP:HB2	17:4:172:PRO:HD3	1.99	0.44
1:A:92:TRP:O	1:A:96:MET:HG2	2.17	0.44
21:A:1106:CLA:HBA2	21:A:1106:CLA:H3A	1.39	0.44
21:A:1137:CLA:H62	21:A:1137:CLA:H41	1.46	0.44
21:A:9012:CLA:CED	2:B:620:LEU:CD1	2.95	0.44
2:B:158:GLN:HB2	2:B:161:TRP:HE3	1.83	0.44
2:B:316:GLY:N	2:B:410:ARG:HH21	2.14	0.44
21:B:1224:CLA:H142	21:B:1224:CLA:H112	1.71	0.44
12:L:53:THR:O	12:L:54:TYR:CG	2.70	0.44
12:L:72:PRO:O	12:L:76:SER:OG	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:N:160:PHE:CZ	13:N:166:VAL:CG1	2.99	0.44
14:1:81:LEU:HA	14:1:84:CYS:HB2	1.98	0.44
14:1:195:PHE:CZ	26:1:1502:LUT:H402	2.52	0.44
21:1:1010:CLA:C4D	21:1:1010:CLA:CED	2.85	0.44
15:2:152:PHE:CD2	21:2:2006:CLA:C4	3.01	0.44
21:2:2003:CLA:CBB	26:2:2501:LUT:H41	2.46	0.44
21:2:2007:CLA:HMA3	20:2:2801:LHG:HC32	1.98	0.44
16:3:171:GLU:CA	16:3:174:ARG:HG3	2.45	0.44
16:3:180:LYS:HA	16:3:181:PRO:HD2	1.76	0.44
21:3:3003:CLA:H62	21:3:3003:CLA:H41	1.56	0.44
21:3:3009:CLA:HED2	21:3:3009:CLA:CHA	2.45	0.44
17:4:197:ALA:C	17:4:199:THR:N	2.71	0.44
17:4:238:HIS:CD2	21:4:4003:CLA:O2D	2.70	0.44
1:A:511:THR:HG21	21:A:1125:CLA:CBB	2.47	0.44
4:D:130:LEU:CD2	4:D:131:LYS:N	2.73	0.44
4:D:160:PRO:CD	4:D:161:SER:H	2.31	0.44
6:F:119:ILE:O	6:F:123:ILE:HG13	2.18	0.44
7:G:116:LYS:C	7:G:116:LYS:CD	2.85	0.44
13:N:107:LEU:HD12	13:N:107:LEU:HA	1.80	0.44
26:1:1501:LUT:H393	26:1:1501:LUT:H27	1.88	0.44
21:1:1003:CLA:H43	21:1:1008:CLA:OBD	2.18	0.44
21:1:1011:CLA:H171	21:1:1011:CLA:C14	2.44	0.44
15:2:263:PRO:HG2	16:3:153:TRP:HZ2	1.83	0.44
16:3:223:GLU:C	16:3:225:LYS:N	2.70	0.44
21:3:3001:CLA:HBC1	21:3:3011:CLA:HMA1	2.00	0.44
21:4:4004:CLA:C4B	26:4:4502:LUT:H193	2.47	0.44
1:A:554:LEU:CD2	21:B:9023:CLA:HED3	2.47	0.44
19:A:6011:BCR:H333	21:A:9013:CLA:H141	1.99	0.44
19:A:6011:BCR:H291	21:A:1126:CLA:H42	2.00	0.44
2:B:696:LYS:NZ	3:C:81:TYR:O	2.44	0.44
21:B:1207:CLA:CMA	8:H:117:PHE:HZ	2.31	0.44
21:B:1227:CLA:HMB2	21:B:1228:CLA:C3D	2.47	0.44
3:C:75:ARG:NE	4:D:157:ARG:NH1	2.65	0.44
6:F:206:LEU:O	6:F:209:ARG:HB2	2.17	0.44
7:G:78:VAL:HG13	7:G:79:PHE:N	2.33	0.44
9:I:14:LEU:HD22	9:I:14:LEU:HA	1.64	0.44
14:1:85:ARG:NH2	21:1:1001:CLA:C4D	2.81	0.44
21:1:1005:CLA:CMD	21:1:1012:CLA:ND	2.73	0.44
21:1:1008:CLA:C9	21:1:1008:CLA:C12	2.95	0.44
21:1:1009:CLA:O1D	20:1:1801:LHG:C6	2.65	0.44
21:2:2011:CLA:HBC2	21:2:2011:CLA:CMC	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:3:212:LEU:HD12	16:3:212:LEU:O	2.17	0.44
17:4:243:TRP:CE2	21:4:4008:CLA:O1A	2.70	0.44
1:A:410:ALA:HB1	19:A:6008:BCR:H383	1.98	0.44
1:A:567:ARG:NH2	4:D:88:THR:O	2.50	0.44
21:A:1101:CLA:H61	21:A:1101:CLA:H41	1.53	0.44
21:B:1202:CLA:H91	21:B:1221:CLA:O1D	2.17	0.44
4:D:101:TYR:N	4:D:132:LEU:O	2.48	0.44
6:F:173:TRP:CD1	6:F:173:TRP:C	2.91	0.44
11:K:99:ALA:O	11:K:103:LEU:HG	2.17	0.44
12:L:185:PHE:CD1	12:L:185:PHE:C	2.90	0.44
14:1:62:ASP:OD1	14:1:65:ARG:N	2.50	0.44
26:1:1502:LUT:H202	26:1:1502:LUT:H11	1.87	0.44
21:1:1003:CLA:H171	21:1:1008:CLA:H72	2.00	0.44
16:3:200:ASN:N	16:3:201:PRO:HD2	2.11	0.44
21:4:4003:CLA:H3A	21:4:4003:CLA:HBA2	1.74	0.44
1:A:58:HIS:HB2	20:A:7001:LHG:H111	2.00	0.44
1:A:373:ALA:HB2	1:A:399:HIS:HB2	2.00	0.44
21:A:1112:CLA:HBA2	21:A:1114:CLA:HMB3	1.99	0.44
21:A:1126:CLA:H141	21:A:1126:CLA:H161	1.80	0.44
2:B:292:ARG:CZ	7:G:91:VAL:CG2	2.85	0.44
4:D:106:GLU:HG2	4:D:127:PRO:HA	1.99	0.44
8:H:118:SER:HA	9:I:7:LEU:HD12	2.00	0.44
21:J:6014:CLA:HBA2	21:J:6014:CLA:C2	2.42	0.44
12:L:53:THR:C	12:L:55:GLN:H	2.20	0.44
13:N:90:ALA:O	13:N:94:LYS:N	2.35	0.44
13:N:130:ASN:HA	13:N:134:CYS:HB3	2.00	0.44
13:N:160:PHE:HA	13:N:162:CYS:N	2.32	0.44
14:1:102:LEU:HD11	21:1:1006:CLA:H2A	1.98	0.44
14:1:223:HIS:CD2	21:1:1003:CLA:OBD	2.70	0.44
26:1:1502:LUT:C17	21:1:1004:CLA:C7	2.95	0.44
21:1:1006:CLA:CBA	21:1:1014:CLA:C1C	2.90	0.44
21:2:2010:CLA:H143	21:2:2010:CLA:C17	2.33	0.44
16:3:171:GLU:C	16:3:174:ARG:CG	2.85	0.44
16:3:203:TYR:O	16:3:203:TYR:CD1	2.70	0.44
16:3:257:LEU:HD22	21:3:3003:CLA:CAB	2.47	0.44
21:4:4012:CLA:H192	21:4:4012:CLA:H121	1.96	0.44
1:A:429:ASN:O	1:A:430:ASP:HB2	2.18	0.44
21:A:1132:CLA:H43	12:L:114:PHE:CE2	2.53	0.44
2:B:69:ALA:HB2	2:B:135:LEU:HB2	1.99	0.44
2:B:300:SER:O	2:B:304:ILE:HG13	2.18	0.44
2:B:517:PHE:HA	21:B:1235:CLA:HED1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:655:LEU:O	2:B:659:THR:OG1	2.30	0.44
3:C:11:CYS:SG	3:C:12:ILE:N	2.91	0.44
21:1:1009:CLA:H62	21:1:1009:CLA:H41	1.66	0.44
15:2:161:VAL:HG21	21:4:4008:CLA:HBA1	2.00	0.44
16:3:159:LEU:O	16:3:163:GLU:N	2.51	0.44
17:4:172:PRO:CG	17:4:173:ILE:N	2.80	0.44
21:4:4007:CLA:CHD	21:4:4007:CLA:CBC	2.94	0.44
1:A:397:THR:HG23	1:A:613:ILE:HG21	2.00	0.44
1:A:464:ASN:HB3	1:A:476:MET:HE3	2.00	0.44
21:A:1104:CLA:H162	21:A:1104:CLA:H101	2.00	0.44
2:B:662:MET:HB2	21:B:9023:CLA:C1C	2.48	0.44
21:B:1207:CLA:H13	8:H:113:THR:HG22	1.99	0.44
21:B:1239:CLA:H3A	21:B:1239:CLA:HBA2	1.76	0.44
9:I:9:VAL:O	9:I:12:VAL:HG22	2.18	0.44
13:N:103:ASP:HB2	13:N:104:LYS:H	1.54	0.44
13:N:120:VAL:O	13:N:120:VAL:HG23	2.18	0.44
14:1:127:PRO:O	14:1:128:TRP:CB	2.65	0.44
14:1:154:ASP:HA	14:1:155:PRO:HD2	1.72	0.44
14:1:195:PHE:CE1	26:1:1502:LUT:C40	3.01	0.44
26:1:1501:LUT:H391	26:1:1501:LUT:H31	1.66	0.44
21:1:1003:CLA:H92	20:1:1801:LHG:C18	2.46	0.44
21:1:1008:CLA:O1A	21:1:1008:CLA:H2	2.17	0.44
21:2:2010:CLA:HBA2	21:2:2010:CLA:H3A	1.81	0.44
16:3:205:GLY:O	16:3:209:PHE:CE2	2.70	0.44
16:3:240:LEU:HD13	21:3:3005:CLA:CGA	2.48	0.44
16:3:245:GLN:HG3	21:3:3003:CLA:HMC2	2.00	0.44
1:A:205:HIS:CD2	21:A:1111:CLA:HMC2	2.52	0.43
1:A:408:VAL:HG21	1:A:605:MET:HE2	2.00	0.43
21:A:1129:CLA:O1A	21:A:1130:CLA:HMD1	2.18	0.43
2:B:548:PRO:HD2	3:C:62:PHE:CE1	2.53	0.43
7:G:114:LEU:CD2	7:G:118:ALA:C	2.86	0.43
7:G:141:THR:HG22	25:G:2021:LMG:HC72	1.96	0.43
12:L:195:SER:O	19:L:6020:BCR:H323	2.18	0.43
14:1:47:ARG:HE	14:1:47:ARG:HB3	1.67	0.43
14:1:83:HIS:CD2	21:1:1004:CLA:HBB2	2.53	0.43
14:1:96:VAL:HG22	14:1:97:PRO:CD	2.48	0.43
14:1:131:LEU:HD23	14:1:132:PRO:CA	2.49	0.43
14:1:160:TYR:HB2	21:1:1001:CLA:HED2	1.93	0.43
16:3:163:GLU:OE2	21:3:3013:CLA:HHC	2.17	0.43
26:4:4501:LUT:O3	26:4:4501:LUT:H173	2.18	0.43
1:A:358:LEU:HD11	21:A:1128:CLA:CBB	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:684:PHE:CD1	1:A:684:PHE:C	2.91	0.43
1:A:691:MET:HE2	18:A:5001:PQN:H2M3	1.99	0.43
21:A:1109:CLA:H141	21:A:1109:CLA:H161	1.78	0.43
21:A:1110:CLA:HED2	21:A:1110:CLA:H2A	2.00	0.43
2:B:225:LEU:HA	2:B:230:TRP:CD1	2.53	0.43
19:B:6011:BCR:H321	21:F:1302:CLA:HMD1	2.00	0.43
6:F:167:PHE:HB2	19:F:6014:BCR:H393	2.01	0.43
12:L:202:PHE:HB3	12:L:203:LEU:HD12	2.00	0.43
14:1:180:TYR:CD2	21:1:1001:CLA:O1A	2.70	0.43
21:1:1003:CLA:H122	21:1:1003:CLA:H91	2.00	0.43
15:2:121:ALA:C	15:2:123:GLY:N	2.72	0.43
15:2:259:HIS:HE2	21:2:2003:CLA:C2D	2.31	0.43
16:3:177:ASP:OD1	16:3:209:PHE:CE2	2.71	0.43
26:4:4501:LUT:C8	26:4:4501:LUT:C18	2.86	0.43
1:A:265:GLY:HA3	21:3:3017:CLA:HBA2	2.00	0.43
1:A:346:LEU:HD23	1:A:346:LEU:HA	1.81	0.43
1:A:688:PHE:HA	21:A:9013:CLA:HAB	1.99	0.43
21:A:1106:CLA:HMC3	21:A:1107:CLA:CMD	2.46	0.43
21:A:1115:CLA:H51	11:K:113:GLY:CA	2.48	0.43
21:A:1117:CLA:HBB1	21:A:1117:CLA:HMB1	2.00	0.43
2:B:51:PHE:HE1	21:B:1208:CLA:HBB1	1.82	0.43
2:B:73:ASN:HB2	2:B:76:ALA:HB3	2.00	0.43
3:C:73:THR:H	3:C:76:SER:HG	1.64	0.43
6:F:207:VAL:HB	21:F:1301:CLA:HED2	1.99	0.43
7:G:76:ARG:HH11	7:G:116:LYS:HZ1	1.65	0.43
19:I:6018:BCR:H392	19:I:6018:BCR:H282	1.26	0.43
12:L:104:LEU:C	12:L:104:LEU:HD23	2.39	0.43
14:1:48:PRO:HG2	14:1:51:LEU:HB2	2.00	0.43
14:1:145:VAL:HG12	21:1:1011:CLA:C3B	2.49	0.43
20:1:1801:LHG:H351	21:4:4015:CLA:HBA1	2.00	0.43
21:2:2002:CLA:C6	26:2:2501:LUT:C36	2.95	0.43
17:4:202:ALA:C	17:4:205:LYS:H	2.20	0.43
1:A:596:ASP:HA	1:A:599:PHE:HB3	2.01	0.43
21:A:1139:CLA:H11	21:A:1139:CLA:H51	1.83	0.43
21:B:1226:CLA:HBC2	21:B:1226:CLA:HHD	2.00	0.43
3:C:17:CYS:HB2	3:C:54:CYS:HB2	2.01	0.43
6:F:114:ALA:C	6:F:116:ALA:N	2.72	0.43
6:F:166:LEU:O	6:F:170:ILE:HG13	2.18	0.43
7:G:95:ASN:HB2	7:G:96:GLY:HA3	1.98	0.43
11:K:76:ALA:HA	11:K:77:ASN:O	2.17	0.43
14:1:160:TYR:HB3	21:1:1001:CLA:CGD	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2:234:ALA:HA	15:2:237:ALA:HB3	2.00	0.43
21:2:2005:CLA:H203	21:2:2005:CLA:H162	1.85	0.43
21:2:2008:CLA:C2	21:2:2008:CLA:HMA2	2.48	0.43
16:3:168:GLY:C	16:3:170:ALA:N	2.71	0.43
21:4:4013:CLA:HMA2	27:4:4503:NEX:H222	2.00	0.43
1:A:315:HIS:HB3	21:A:1118:CLA:HED1	2.00	0.43
21:A:1103:CLA:H2	21:A:1103:CLA:H61	1.50	0.43
2:B:292:ARG:HH11	7:G:92:PRO:HB3	1.82	0.43
6:F:181:TYR:OH	6:F:200:VAL:HG21	2.18	0.43
6:F:194:LYS:HZ3	6:F:200:VAL:HG11	1.84	0.43
26:1:1501:LUT:H12	21:1:1002:CLA:HAA2	2.00	0.43
15:2:71:TRP:CD1	15:2:76:THR:HG21	2.52	0.43
21:2:2009:CLA:CBC	21:3:3009:CLA:CBA	2.92	0.43
21:4:4004:CLA:CHC	26:4:4502:LUT:C19	2.94	0.43
21:4:4012:CLA:H152	21:4:4012:CLA:C19	2.16	0.43
21:A:1101:CLA:H93	21:A:1106:CLA:H172	2.01	0.43
21:A:1132:CLA:H2A	21:A:1132:CLA:O1D	2.18	0.43
21:B:1219:CLA:HMB3	21:B:1240:CLA:C1D	2.48	0.43
21:B:1229:CLA:H3A	21:B:1229:CLA:HBA2	1.40	0.43
21:B:1235:CLA:H203	21:B:1235:CLA:H161	1.88	0.43
6:F:152:GLY:HA2	6:F:161:ILE:HD11	2.00	0.43
6:F:201:PRO:C	6:F:203:ALA:N	2.70	0.43
12:L:177:GLN:O	12:L:178:THR:OG1	2.21	0.43
21:L:1501:CLA:HBA1	21:L:1501:CLA:CBD	2.48	0.43
13:N:116:ARG:HH21	13:N:122:PHE:N	2.15	0.43
14:1:90:ALA:O	14:1:93:GLY:N	2.51	0.43
14:1:105:TRP:N	14:1:105:TRP:CD1	2.86	0.43
14:1:186:LYS:NZ	21:1:1007:CLA:CED	2.74	0.43
21:1:1005:CLA:CED	21:1:1012:CLA:O1A	2.67	0.43
16:3:112:PHE:HZ	21:3:3012:CLA:O2D	2.02	0.43
16:3:204:PRO:HB2	16:3:209:PHE:CB	2.48	0.43
1:A:308:ILE:HA	1:A:311:LEU:HD12	2.00	0.43
1:A:374:GLN:NE2	21:A:1124:CLA:OBD	2.52	0.43
2:B:529:THR:O	2:B:533:ILE:HG13	2.19	0.43
19:B:6006:BCR:H351	19:B:6006:BCR:H15C	1.66	0.43
21:B:1227:CLA:H8	21:B:1240:CLA:C1	2.46	0.43
10:J:13:VAL:O	10:J:16:THR:HG23	2.19	0.43
11:K:100:GLY:HA2	11:K:103:LEU:HB2	1.99	0.43
14:1:186:LYS:NZ	20:1:1801:LHG:O5	2.51	0.43
15:2:110:GLU:CB	21:2:2004:CLA:C1B	2.90	0.43
21:2:2001:CLA:C2B	21:2:2014:CLA:C2A	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2:2014:CLA:H3A	21:2:2014:CLA:O2A	2.19	0.43
17:4:151:PHE:HB3	21:4:4012:CLA:HBB2	2.01	0.43
21:4:4012:CLA:H192	21:4:4012:CLA:C13	2.48	0.43
26:4:4501:LUT:H202	26:4:4501:LUT:H11	1.86	0.43
20:A:7001:LHG:H222	21:A:1104:CLA:H191	2.01	0.43
21:B:1208:CLA:H61	21:B:1208:CLA:H41	1.55	0.43
21:B:9023:CLA:H143	21:B:9023:CLA:H111	1.89	0.43
4:D:156:TYR:HB3	4:D:165:GLN:O	2.18	0.43
21:F:1303:CLA:HMB2	26:4:4502:LUT:H11	2.01	0.43
11:K:98:PRO:HG3	11:K:101:PHE:CE1	2.54	0.43
12:L:204:LEU:CD2	12:L:207:LEU:HD21	2.48	0.43
14:1:223:HIS:O	14:1:225:ASN:N	2.52	0.43
26:1:1501:LUT:H31	26:1:1501:LUT:H402	1.91	0.43
26:1:1502:LUT:H403	26:1:1502:LUT:H31	1.83	0.43
26:1:1502:LUT:H11	26:1:1502:LUT:H191	1.75	0.43
21:1:1004:CLA:H61	21:1:1004:CLA:H93	1.75	0.43
16:3:162:LEU:HA	16:3:165:ALA:CB	2.48	0.43
21:3:3001:CLA:HHD	21:3:3011:CLA:HMB3	2.00	0.43
17:4:170:GLN:NE2	21:4:4014:CLA:C1C	2.78	0.43
1:A:343:HIS:HA	1:A:346:LEU:HD12	2.00	0.43
1:A:422:TYR:CZ	1:A:424:PRO:HG3	2.54	0.43
21:A:1117:CLA:HBA2	21:A:1117:CLA:H3A	1.72	0.43
21:A:1129:CLA:CED	12:L:69:LEU:HD13	2.49	0.43
21:A:1131:CLA:H71	18:B:5002:PQN:C20	2.49	0.43
2:B:100:ALA:O	2:B:104:PHE:HD1	2.02	0.43
2:B:314:ARG:C	2:B:410:ARG:NH2	2.72	0.43
19:B:6004:BCR:H281	21:B:1212:CLA:NB	2.33	0.43
21:B:1207:CLA:H92	21:B:1207:CLA:H62	1.81	0.43
4:D:77:PRO:HD2	4:D:78:ASN:N	2.33	0.43
19:F:6016:BCR:H392	19:F:6016:BCR:H282	1.26	0.43
7:G:101:PHE:HD1	7:G:101:PHE:H	1.66	0.43
26:1:1502:LUT:H8	26:1:1502:LUT:C18	2.47	0.43
15:2:118:MET:HG2	15:2:119:LEU:N	2.33	0.43
15:2:119:LEU:HD12	15:2:119:LEU:N	2.34	0.43
15:2:119:LEU:CD1	15:2:119:LEU:N	2.81	0.43
16:3:162:LEU:HA	16:3:165:ALA:HB3	2.00	0.43
17:4:179:LEU:HD12	21:4:4014:CLA:H3A	2.01	0.43
26:4:4501:LUT:H361	26:4:4501:LUT:H28	2.01	0.43
1:A:100:GLY:HA3	1:A:153:TRP:CH2	2.53	0.43
21:A:9013:CLA:CGA	21:A:9013:CLA:H3A	2.49	0.43
2:B:60:TRP:HA	21:B:1204:CLA:HAB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:77:TRP:HA	2:B:84:VAL:CG1	2.42	0.43
2:B:125:TYR:O	2:B:130:ARG:NH1	2.48	0.43
2:B:176:ASN:ND2	2:B:291:TYR:O	2.51	0.43
2:B:226:LEU:O	7:G:136:TYR:OH	2.23	0.43
21:B:1208:CLA:HBA2	21:B:1208:CLA:H3A	1.39	0.43
21:B:1213:CLA:HBC3	21:B:1213:CLA:CHD	2.48	0.43
7:G:138:LEU:O	7:G:142:THR:HG23	2.19	0.43
21:G:1001:CLA:H51	21:G:1001:CLA:H11	1.81	0.43
12:L:135:ALA:O	12:L:138:VAL:CG2	2.65	0.43
12:L:137:LEU:O	12:L:141:LEU:HG	2.18	0.43
12:L:172:GLN:NE2	12:L:172:GLN:C	2.72	0.43
14:1:82:ILE:CG2	14:1:83:HIS:N	2.81	0.43
21:1:1002:CLA:CAD	21:1:1002:CLA:HED2	2.49	0.43
21:1:1002:CLA:HAB	21:1:1007:CLA:CBD	2.28	0.43
21:1:1006:CLA:O1A	21:1:1014:CLA:C2C	2.67	0.43
21:1:1010:CLA:H152	21:1:1010:CLA:H193	2.01	0.43
21:1:1011:CLA:HBD	21:1:1011:CLA:HAA1	2.00	0.43
21:2:2002:CLA:HBB1	21:2:2002:CLA:CHC	2.46	0.43
21:2:2006:CLA:HBA2	21:2:2013:CLA:CAD	2.49	0.43
16:3:171:GLU:OE1	21:3:3012:CLA:C1C	2.67	0.43
21:3:3001:CLA:HED2	21:3:3001:CLA:H2A	2.01	0.43
17:4:103:ALA:C	17:4:107:VAL:HG12	2.38	0.43
17:4:163:LYS:CE	21:4:4005:CLA:HED3	2.46	0.43
17:4:238:HIS:CE1	21:4:4003:CLA:O1D	2.70	0.43
1:A:225:VAL:HG13	1:A:245:PRO:HB3	2.01	0.42
20:A:7003:LHG:O2	20:A:7003:LHG:P	2.77	0.42
2:B:338:LEU:HD22	2:B:382:ILE:HG23	2.01	0.42
19:B:6009:BCR:HC7	21:B:1219:CLA:CBB	2.49	0.42
4:D:129:LEU:C	4:D:129:LEU:CD1	2.85	0.42
6:F:173:TRP:O	6:F:177:VAL:HG23	2.19	0.42
8:H:73:TYR:C	8:H:75:SER:N	2.72	0.42
9:I:17:PRO:O	9:I:21:MET:HB2	2.19	0.42
12:L:110:LEU:CD2	12:L:110:LEU:N	2.81	0.42
12:L:164:LEU:N	12:L:164:LEU:CD2	2.72	0.42
15:2:124:ILE:C	15:2:127:PRO:HD2	2.39	0.42
16:3:171:GLU:C	16:3:174:ARG:HG3	2.40	0.42
21:3:3001:CLA:H143	21:3:3001:CLA:H162	1.75	0.42
21:4:4006:CLA:H61	21:4:4006:CLA:H41	1.86	0.42
1:A:126:ILE:HD12	1:A:126:ILE:HA	1.90	0.42
19:A:6011:BCR:H331	19:A:6011:BCR:C8	2.49	0.42
21:A:1130:CLA:HBC2	21:A:1137:CLA:HBC3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:A:1138:CLA:HMD3	19:F:6014:BCR:HC41	2.02	0.42
2:B:102:GLU:CD	8:H:130:LYS:HG3	2.39	0.42
6:F:213:TRP:O	6:F:215:ILE:N	2.51	0.42
19:L:6020:BCR:C23	19:L:6020:BCR:C38	2.97	0.42
14:1:62:ASP:OD1	14:1:66:LEU:N	2.43	0.42
14:1:136:VAL:CG2	14:1:137:ILE:N	2.82	0.42
15:2:158:LEU:CD1	15:2:159:PHE:N	2.73	0.42
16:3:210:ASN:HA	16:3:214:PHE:CD2	2.53	0.42
16:3:256:ASN:O	16:3:260:HIS:N	2.52	0.42
16:3:264:PRO:CB	21:3:3008:CLA:CMA	2.92	0.42
21:3:3012:CLA:C1A	21:3:3012:CLA:HED2	2.49	0.42
17:4:165:PRO:HA	17:4:166:GLY:HA3	1.63	0.42
17:4:171:ASP:CA	27:4:4503:NEX:C10	2.97	0.42
26:4:4501:LUT:H35	26:4:4501:LUT:C20	2.48	0.42
1:A:382:TYR:CE2	21:A:1127:CLA:HED2	2.54	0.42
19:A:6007:BCR:H342	19:A:6007:BCR:HC7	1.76	0.42
21:A:1102:CLA:H12	21:A:1109:CLA:H92	2.02	0.42
21:A:1114:CLA:HED2	21:A:1114:CLA:H2A	2.02	0.42
2:B:489:GLY:HA2	2:B:493:TRP:CH2	2.55	0.42
21:B:1207:CLA:HAC2	19:I:6018:BCR:HC7	2.01	0.42
3:C:75:ARG:NH2	4:D:99:GLU:OE2	2.52	0.42
21:G:1001:CLA:HBC2	21:G:1001:CLA:CMC	2.34	0.42
12:L:110:LEU:HD12	12:L:137:LEU:HD23	2.00	0.42
12:L:204:LEU:HA	12:L:207:LEU:CG	2.20	0.42
13:N:119:THR:C	13:N:121:GLN:N	2.72	0.42
21:1:1010:CLA:H193	21:1:1010:CLA:C15	2.50	0.42
15:2:161:VAL:HG12	15:2:165:PHE:HD2	1.80	0.42
21:2:2003:CLA:H92	21:2:2003:CLA:C5	2.35	0.42
17:4:105:LEU:HD22	21:4:4001:CLA:HBC1	2.01	0.42
17:4:132:LYS:HA	17:4:133:GLU:HA	1.83	0.42
17:4:189:GLY:C	17:4:191:PHE:N	2.71	0.42
1:A:70:ASP:HB3	1:A:73:GLU:HB2	2.02	0.42
1:A:336:GLY:O	1:A:340:GLY:N	2.48	0.42
1:A:457:SER:CB	1:A:544:ILE:HD13	2.40	0.42
1:A:549:ILE:CD1	21:A:1124:CLA:C1D	2.97	0.42
2:B:551:LYS:NZ	2:B:552:ASP:OD1	2.47	0.42
21:B:1201:CLA:HED2	21:B:1201:CLA:H2A	2.01	0.42
3:C:21:CYS:SG	3:C:24:ASP:N	2.93	0.42
12:L:161:ALA:HB3	12:L:174:ASP:HB2	2.01	0.42
19:L:6020:BCR:H271	19:L:6020:BCR:H393	2.01	0.42
21:L:1502:CLA:H62	21:L:1502:CLA:H92	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1:69:VAL:HA	14:1:70:PRO:HD3	1.88	0.42
14:1:103:GLY:O	14:1:104:ASN:CB	2.67	0.42
14:1:149:ARG:HG3	21:1:1011:CLA:HHD	1.97	0.42
14:1:161:PRO:HD3	21:1:1011:CLA:HMD2	2.02	0.42
21:1:1009:CLA:HMB1	21:4:4015:CLA:CGD	2.49	0.42
21:1:1009:CLA:C5	21:4:4005:CLA:CMD	2.97	0.42
15:2:230:ASN:O	15:2:233:LEU:HB3	2.19	0.42
16:3:152:TYR:HB2	16:3:153:TRP:H	1.56	0.42
16:3:247:LEU:CD1	21:3:3014:CLA:HAA1	2.50	0.42
17:4:112:LEU:HB2	17:4:113:PRO:HD3	2.00	0.42
17:4:243:TRP:HE1	21:4:4008:CLA:C1	2.32	0.42
21:4:4003:CLA:C4	21:4:4003:CLA:C4C	2.97	0.42
1:A:308:ILE:HG13	1:A:309:LEU:N	2.35	0.42
20:A:7003:LHG:HC92	21:A:1129:CLA:C1A	2.50	0.42
21:A:1128:CLA:H62	21:A:1128:CLA:H41	1.85	0.42
19:B:6009:BCR:H343	21:B:1219:CLA:HBB2	2.00	0.42
21:B:1202:CLA:HBD	21:B:1202:CLA:H122	2.01	0.42
21:B:1213:CLA:H112	21:B:1213:CLA:H142	1.76	0.42
4:D:81:SER:HG	8:H:57:TYR:N	2.18	0.42
11:K:65:LEU:HD11	11:K:104:ALA:HA	2.02	0.42
12:L:200:ALA:O	12:L:204:LEU:HG	2.19	0.42
21:1:1003:CLA:H42	20:1:1801:LHG:H192	1.99	0.42
21:1:1006:CLA:O1A	21:1:1014:CLA:C3C	2.68	0.42
21:1:1006:CLA:HHB	21:1:1013:CLA:C1	2.49	0.42
21:1:1009:CLA:H193	21:1:1009:CLA:H161	1.78	0.42
21:1:1010:CLA:CBB	21:1:1010:CLA:HHC	2.48	0.42
21:2:2012:CLA:HMB1	21:2:2012:CLA:HBB1	2.02	0.42
16:3:104:TYR:O	16:3:108:ILE:HD12	2.18	0.42
16:3:208:PHE:HB2	21:3:3001:CLA:HED3	2.00	0.42
21:3:3008:CLA:H41	21:3:3008:CLA:H62	1.61	0.42
17:4:145:ILE:HG21	21:4:4013:CLA:HED3	2.01	0.42
17:4:226:VAL:CG2	17:4:227:THR:H	2.32	0.42
1:A:433:ASP:C	1:A:434:ARG:HG3	2.40	0.42
21:A:1108:CLA:CBB	21:A:1111:CLA:HED2	2.49	0.42
2:B:306:GLU:HA	2:B:320:LYS:HG2	2.01	0.42
6:F:209:ARG:NE	17:4:80:LEU:O	2.52	0.42
7:G:77:PHE:CZ	21:G:1002:CLA:CMC	3.03	0.42
12:L:53:THR:C	12:L:55:GLN:N	2.73	0.42
12:L:172:GLN:HG2	12:L:173:PRO:N	2.34	0.42
14:1:107:LYS:HD2	14:1:110:GLU:OE1	2.19	0.42
14:1:184:GLU:HG3	21:1:1001:CLA:NB	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1:224:ASN:CG	14:1:225:ASN:N	2.73	0.42
21:3:3008:CLA:HBA1	21:3:3008:CLA:CBD	2.50	0.42
21:3:3013:CLA:HBC3	21:3:3013:CLA:CMC	2.30	0.42
21:4:4003:CLA:H192	21:4:4008:CLA:HMD2	2.01	0.42
21:A:1136:CLA:H112	21:A:1136:CLA:H91	1.83	0.42
2:B:282:PHE:CZ	21:B:1213:CLA:HBB2	2.54	0.42
2:B:422:LEU:HG	21:B:1236:CLA:CAB	2.46	0.42
21:B:9010:CLA:H3A	21:B:9010:CLA:HBA2	1.82	0.42
4:D:170:LYS:C	4:D:172:GLY:N	2.72	0.42
6:F:157:TRP:CD1	6:F:161:ILE:HD12	2.55	0.42
6:F:194:LYS:O	6:F:198:ILE:HG23	2.19	0.42
19:F:6016:BCR:HC7	19:F:6016:BCR:H342	1.91	0.42
8:H:77:ALA:HB2	12:L:84:SER:HB3	2.00	0.42
8:H:137:LYS:HD3	8:H:137:LYS:HA	1.89	0.42
19:L:6020:BCR:H393	19:L:6020:BCR:C27	2.50	0.42
21:1:1006:CLA:O1A	21:1:1014:CLA:CAC	2.67	0.42
21:1:1010:CLA:H92	21:1:1010:CLA:H42	2.02	0.42
17:4:168:VAL:HB	17:4:179:LEU:HB3	2.02	0.42
21:4:4010:CLA:O1A	21:4:4010:CLA:H2	2.20	0.42
19:A:6017:BCR:H383	21:B:1239:CLA:HBC1	2.01	0.42
21:A:1103:CLA:HED2	21:A:1128:CLA:HBB2	2.02	0.42
21:A:1130:CLA:O1A	2:B:686:PRO:HG2	2.19	0.42
21:B:1209:CLA:HED2	21:B:1209:CLA:H2A	2.01	0.42
21:B:1219:CLA:H91	21:B:1219:CLA:H111	1.77	0.42
3:C:29:ILE:HG13	3:C:41:SER:HB2	2.01	0.42
4:D:94:LYS:HE3	4:D:99:GLU:O	2.19	0.42
6:F:196:ILE:HG13	6:F:197:ILE:N	2.35	0.42
6:F:198:ILE:HG12	10:J:10:VAL:HG12	2.01	0.42
12:L:130:GLY:O	12:L:133:ALA:CB	2.68	0.42
19:L:6020:BCR:C18	21:L:1501:CLA:HMB2	2.50	0.42
14:1:184:GLU:CA	21:1:1001:CLA:HMB3	2.49	0.42
14:1:211:LEU:HD21	21:1:1003:CLA:O2D	2.19	0.42
21:1:1006:CLA:CBB	21:1:1006:CLA:CHC	2.91	0.42
20:2:2801:LHG:H122	20:2:2801:LHG:C24	2.47	0.42
20:2:2801:LHG:C23	20:2:2801:LHG:C12	2.85	0.42
17:4:247:ILE:HD13	21:4:4003:CLA:OBD	2.19	0.42
1:A:744:ALA:O	1:A:747:TRP:HB3	2.20	0.42
1:A:745:THR:O	1:A:745:THR:HG22	2.19	0.42
21:A:1130:CLA:CAD	12:L:73:VAL:CG1	2.98	0.42
2:B:199:ILE:HB	2:B:200:PRO:HD3	2.02	0.42
21:B:1207:CLA:H161	19:I:6020:BCR:HC31	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:B:1227:CLA:H142	21:B:1227:CLA:H112	1.88	0.42
14:1:225:ASN:C	14:1:227:GLY:CA	2.85	0.42
21:1:1009:CLA:HMC2	17:4:156:ILE:CD1	2.46	0.42
15:2:236:LEU:HD23	15:2:236:LEU:HA	1.79	0.42
21:3:3010:CLA:CHA	21:3:3010:CLA:CBA	2.98	0.42
1:A:64:PHE:CD2	1:A:77:LYS:HB3	2.55	0.42
1:A:281:LEU:HA	1:A:297:THR:O	2.20	0.42
1:A:549:ILE:HD13	21:A:1124:CLA:C1D	2.50	0.42
19:A:6003:BCR:H342	21:A:1110:CLA:HMC1	2.02	0.42
21:A:1103:CLA:H51	21:A:1111:CLA:H12	2.02	0.42
21:A:1107:CLA:H2	19:J:6013:BCR:H363	2.02	0.42
23:A:9011:CL0:H10	23:A:9011:CL0:H72	1.82	0.42
21:B:1216:CLA:H111	21:B:1216:CLA:H91	1.82	0.42
21:B:1220:CLA:CMD	21:B:1221:CLA:HAB	2.49	0.42
21:B:1240:CLA:H11	21:B:1240:CLA:H52	1.89	0.42
7:G:116:LYS:HG3	21:G:1002:CLA:NA	2.34	0.42
8:H:76:ASP:CG	8:H:77:ALA:N	2.73	0.42
19:I:6018:BCR:HC7	19:I:6018:BCR:H321	1.77	0.42
12:L:109:PHE:HE1	21:L:1503:CLA:CHC	2.33	0.42
26:1:1502:LUT:H393	26:1:1502:LUT:H27	1.84	0.42
21:2:2008:CLA:H161	21:2:2008:CLA:H122	1.82	0.42
26:2:2502:LUT:H11	26:2:2502:LUT:H191	1.80	0.42
16:3:174:ARG:H	16:3:174:ARG:HG2	1.50	0.42
21:4:4013:CLA:HBC2	21:4:4013:CLA:CMC	2.50	0.42
1:A:203:LEU:O	1:A:207:LEU:HG	2.20	0.41
1:A:268:PRO:HG3	1:A:276:LYS:HB3	2.02	0.41
1:A:336:GLY:CA	1:A:339:THR:HG22	2.50	0.41
1:A:342:GLY:O	1:A:343:HIS:HB2	2.20	0.41
1:A:357:GLN:HG3	21:A:1123:CLA:H151	2.01	0.41
1:A:371:VAL:HA	21:A:1124:CLA:HED3	2.02	0.41
1:A:433:ASP:O	1:A:435:VAL:N	2.49	0.41
1:A:484:LEU:HD12	1:A:484:LEU:HA	1.90	0.41
1:A:664:VAL:HG13	1:A:665:ILE:HG23	2.01	0.41
2:B:443:MET:HB3	2:B:448:THR:O	2.20	0.41
2:B:577:TYR:HD1	2:B:710:LEU:HD22	1.84	0.41
21:B:1219:CLA:H61	21:B:1219:CLA:H41	1.56	0.41
4:D:156:TYR:CD1	4:D:156:TYR:N	2.87	0.41
7:G:116:LYS:CG	21:G:1002:CLA:C4A	2.98	0.41
8:H:128:ILE:H	8:H:128:ILE:HG12	1.40	0.41
12:L:115:VAL:HG13	12:L:128:ALA:HA	2.02	0.41
19:L:6020:BCR:C23	19:L:6020:BCR:H382	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1:105:TRP:H	14:1:105:TRP:HD1	1.67	0.41
14:1:170:TYR:N	14:1:170:TYR:HD1	2.18	0.41
14:1:176:LYS:HA	14:1:179:GLU:HG2	2.01	0.41
15:2:91:PHE:HB3	21:2:2004:CLA:C3D	2.50	0.41
16:3:214:PHE:HZ	21:3:3001:CLA:C4D	2.31	0.41
21:3:3012:CLA:C2A	21:3:3012:CLA:CED	2.85	0.41
17:4:71:LEU:HA	17:4:72:PRO:HD3	1.94	0.41
21:4:4002:CLA:HMA2	21:4:4002:CLA:O2A	2.20	0.41
1:A:190:ALA:HA	1:A:191:PRO:HD3	1.87	0.41
1:A:680:LEU:HD23	1:A:680:LEU:HA	1.89	0.41
2:B:458:ILE:HD13	6:F:151:SER:HB3	2.02	0.41
2:B:576:PHE:O	2:B:580:VAL:HG23	2.20	0.41
5:E:111:ASN:ND2	5:E:113:ALA:O	2.53	0.41
6:F:154:GLN:HA	6:F:157:TRP:CD1	2.55	0.41
7:G:116:LYS:C	7:G:118:ALA:N	2.73	0.41
7:G:121:ILE:O	7:G:124:VAL:N	2.53	0.41
9:I:14:LEU:HA	9:I:17:PRO:HD2	2.02	0.41
14:1:102:LEU:HG	21:1:1006:CLA:O1D	2.20	0.41
14:1:211:LEU:HD23	21:1:1003:CLA:HED3	1.97	0.41
26:1:1502:LUT:H192	26:1:1502:LUT:H7	1.90	0.41
21:1:1013:CLA:H12	21:1:1013:CLA:CGD	2.50	0.41
15:2:159:PHE:O	15:2:163:LEU:N	2.37	0.41
16:3:207:PRO:CB	16:3:208:PHE:CD1	3.01	0.41
21:3:3003:CLA:HBD	21:3:3003:CLA:HBA2	2.01	0.41
1:A:472:ARG:NE	1:A:475:ASP:OD2	2.54	0.41
1:A:603:PHE:O	1:A:606:TYR:HB3	2.20	0.41
19:A:6002:BCR:C12	21:A:1112:CLA:HBB1	2.50	0.41
2:B:713:PHE:O	2:B:717:TYR:HB2	2.21	0.41
21:B:1205:CLA:HBA2	21:B:1205:CLA:H141	2.01	0.41
3:C:31:TRP:CH2	3:C:33:GLY:HA3	2.54	0.41
7:G:110:GLU:HG2	7:G:111:TYR:H	1.85	0.41
7:G:138:LEU:CD2	25:G:2021:LMG:C29	2.98	0.41
26:1:1502:LUT:H32	21:1:1005:CLA:HBC3	2.01	0.41
15:2:230:ASN:CG	15:2:231:GLY:N	2.73	0.41
21:2:2003:CLA:H141	21:2:2003:CLA:H162	1.89	0.41
21:2:2006:CLA:H2A	21:2:2006:CLA:CED	2.37	0.41
21:2:2008:CLA:H61	21:2:2008:CLA:H41	1.69	0.41
21:4:4004:CLA:C3	26:4:4502:LUT:H162	2.47	0.41
26:4:4501:LUT:C15	26:4:4501:LUT:C40	2.96	0.41
21:A:1104:CLA:HED1	21:A:1128:CLA:H2	2.01	0.41
2:B:247:THR:O	2:B:247:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:294:ASN:N	2:B:294:ASN:OD1	2.50	0.41
21:B:9023:CLA:H141	21:B:9023:CLA:H161	1.85	0.41
4:D:198:PRO:C	4:D:199:ILE:HG23	2.40	0.41
19:F:6016:BCR:H333	21:F:1302:CLA:H3A	2.01	0.41
10:J:38:THR:O	10:J:40:PRO:HD3	2.21	0.41
12:L:61:ASN:ND2	12:L:166:LEU:HD11	2.33	0.41
12:L:94:ASN:OD1	12:L:95:PRO:HD2	2.20	0.41
13:N:164:SER:C	13:N:165:ASN:ND2	2.73	0.41
14:1:131:LEU:CD2	14:1:135:LEU:HD11	2.50	0.41
21:1:1012:CLA:HBC2	21:1:1012:CLA:CMC	2.45	0.41
15:2:113:HIS:HE1	21:2:2005:CLA:NB	2.19	0.41
15:2:124:ILE:CD1	26:2:2501:LUT:C17	2.99	0.41
21:2:2005:CLA:HAB	26:2:2502:LUT:C13	2.50	0.41
16:3:209:PHE:CD1	16:3:209:PHE:N	2.88	0.41
17:4:190:ILE:CA	21:4:4014:CLA:O2A	2.69	0.41
21:4:4004:CLA:CAB	26:4:4502:LUT:H203	2.46	0.41
1:A:208:ALA:HB2	1:A:314:GLY:HA3	2.02	0.41
1:A:551:VAL:HG11	1:A:604:TRP:CZ2	2.55	0.41
21:A:1129:CLA:CMA	12:L:71:THR:HG21	2.44	0.41
2:B:549:ASP:OD1	3:C:66:ARG:NH2	2.43	0.41
21:B:1229:CLA:HBB1	21:B:1229:CLA:HMB1	2.01	0.41
7:G:101:PHE:O	7:G:102:ASP:CB	2.69	0.41
11:K:72:LEU:O	11:K:73:ALA:HB3	2.21	0.41
12:L:93:VAL:HG12	12:L:94:ASN:N	2.36	0.41
13:N:167:PHE:CD1	13:N:168:TRP:O	2.70	0.41
14:1:157:LYS:CB	14:1:161:PRO:HA	2.51	0.41
14:1:224:ASN:OD1	14:1:225:ASN:N	2.54	0.41
15:2:152:PHE:C	17:4:243:TRP:HZ3	2.24	0.41
20:2:2801:LHG:H252	20:2:2801:LHG:C12	2.51	0.41
16:3:101:TRP:C	16:3:103:ALA:H	2.24	0.41
16:3:170:ALA:C	16:3:174:ARG:NE	2.73	0.41
16:3:172:HIS:HA	21:3:3012:CLA:CBB	2.46	0.41
21:3:3005:CLA:C4C	21:3:3012:CLA:CGA	2.99	0.41
17:4:102:TRP:N	17:4:102:TRP:C	2.74	0.41
1:A:38:GLY:N	1:A:45:ALA:HA	2.36	0.41
1:A:328:LYS:HD3	1:A:347:TYR:CB	2.51	0.41
21:A:1116:CLA:HMD2	21:A:1125:CLA:HMB2	2.03	0.41
21:A:1117:CLA:H161	21:A:1117:CLA:H122	1.68	0.41
2:B:136:TYR:O	2:B:140:ILE:HG12	2.21	0.41
4:D:135:LYS:HZ2	4:D:167:LEU:HD22	1.85	0.41
8:H:81:TYR:CZ	12:L:97:LEU:HD12	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:120:LEU:CD1	12:L:126:ALA:CB	2.86	0.41
21:2:2011:CLA:CBC	21:2:2011:CLA:CMC	2.89	0.41
17:4:246:THR:CG2	21:4:4008:CLA:CED	2.85	0.41
21:4:4006:CLA:HHD	21:4:4006:CLA:CBC	2.36	0.41
26:4:4502:LUT:H391	26:4:4502:LUT:H31	1.55	0.41
1:A:203:LEU:HD23	1:A:317:TYR:CZ	2.55	0.41
1:A:429:ASN:O	1:A:430:ASP:CB	2.68	0.41
21:A:1123:CLA:H141	21:A:1123:CLA:H162	1.64	0.41
21:A:1136:CLA:H171	21:L:1502:CLA:H203	2.03	0.41
2:B:309:ILE:HD11	2:B:320:LYS:HG3	2.02	0.41
18:B:5002:PQN:H261	18:B:5002:PQN:H292	1.76	0.41
4:D:182:ARG:O	4:D:183:GLN:CB	2.69	0.41
11:K:98:PRO:HG3	11:K:101:PHE:CD1	2.56	0.41
12:L:123:THR:O	12:L:127:GLY:HA2	2.21	0.41
12:L:128:ALA:C	12:L:130:GLY:N	2.72	0.41
12:L:172:GLN:NE2	12:L:172:GLN:O	2.54	0.41
14:1:89:LEU:HD12	14:1:89:LEU:HA	1.86	0.41
21:1:1009:CLA:C12	21:1:1009:CLA:C9	2.85	0.41
15:2:99:ASP:CG	15:2:102:SER:HG	2.18	0.41
16:3:96:PHE:CG	16:3:101:TRP:CD1	3.08	0.41
16:3:163:GLU:OE1	21:3:3010:CLA:HMC2	2.20	0.41
21:3:3011:CLA:CBD	21:3:3011:CLA:CBA	2.92	0.41
17:4:171:ASP:OD2	21:4:4014:CLA:CBB	2.69	0.41
17:4:225:ASN:HD21	21:4:4010:CLA:C3	2.34	0.41
17:4:225:ASN:ND2	17:4:225:ASN:N	2.68	0.41
21:4:4001:CLA:HHC	26:4:4501:LUT:H403	2.02	0.41
1:A:445:HIS:O	1:A:449:VAL:HG23	2.20	0.41
1:A:475:ASP:CB	21:A:1132:CLA:HED2	2.50	0.41
21:A:1101:CLA:H12	21:A:1140:CLA:H72	2.03	0.41
21:A:1107:CLA:CBB	19:J:6012:BCR:H323	2.51	0.41
21:A:1122:CLA:H92	21:A:1122:CLA:H62	1.88	0.41
2:B:645:VAL:CG1	21:B:1206:CLA:HAC1	2.50	0.41
21:B:1222:CLA:C19	21:B:1227:CLA:H201	2.49	0.41
21:B:1227:CLA:H143	21:B:1227:CLA:H162	1.78	0.41
21:B:1239:CLA:O1A	21:B:1239:CLA:C2	2.69	0.41
7:G:114:LEU:CD2	7:G:119:ALA:O	2.69	0.41
8:H:59:ASP:C	8:H:60:LEU:HG	2.40	0.41
8:H:70:TRP:O	12:L:162:PRO:CB	2.69	0.41
21:H:1000:CLA:HAB	19:L:6020:BCR:H331	2.03	0.41
11:K:80:ALA:O	11:K:84:LEU:N	2.54	0.41
14:1:211:LEU:HG	21:1:1003:CLA:CED	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1:1006:CLA:HAA2	21:1:1006:CLA:HBD	2.03	0.41
15:2:118:MET:O	15:2:121:ALA:N	2.51	0.41
15:2:242:TRP:O	15:2:246:ILE:HG23	2.21	0.41
17:4:160:GLN:OE1	21:4:4005:CLA:C4A	2.69	0.41
17:4:170:GLN:HG3	17:4:173:ILE:HB	1.98	0.41
17:4:225:ASN:ND2	21:4:4010:CLA:C3	2.84	0.41
21:4:4001:CLA:HBD	21:4:4001:CLA:HAA1	2.01	0.41
21:4:4002:CLA:CGA	21:4:4002:CLA:C3A	2.99	0.41
26:4:4501:LUT:H11	26:4:4501:LUT:H191	1.59	0.41
1:A:41:SER:HB3	1:A:44:ILE:CB	2.51	0.41
1:A:280:PHE:CE1	1:A:281:LEU:HD23	2.55	0.41
1:A:371:VAL:HG12	21:A:1124:CLA:HED3	2.03	0.41
1:A:409:GLY:HA3	21:A:1128:CLA:C2C	2.51	0.41
1:A:709:TRP:HE1	6:F:229:LYS:HB3	1.86	0.41
21:A:1107:CLA:HMA1	10:J:27:ILE:HD13	2.03	0.41
21:A:1124:CLA:CHB	21:A:1137:CLA:HAA2	2.50	0.41
23:A:9011:CL0:CBB	2:B:624:LEU:CD1	2.98	0.41
2:B:42:LEU:HD21	2:B:330:ILE:HD11	2.03	0.41
2:B:348:VAL:HG21	21:B:1225:CLA:HHD	2.03	0.41
2:B:387:PHE:HB3	2:B:534:LEU:HD22	2.01	0.41
19:B:6005:BCR:H281	21:B:1225:CLA:NC	2.36	0.41
21:B:1202:CLA:H142	21:B:1202:CLA:H112	1.95	0.41
21:B:1227:CLA:HMB2	21:B:1228:CLA:C2D	2.51	0.41
21:B:1234:CLA:HBA2	21:B:1235:CLA:HAA2	2.02	0.41
21:B:9023:CLA:HBC2	21:B:9023:CLA:CHD	2.47	0.41
4:D:75:LEU:HD12	4:D:75:LEU:HA	1.92	0.41
4:D:169:PRO:O	4:D:170:LYS:CB	2.69	0.41
6:F:213:TRP:C	6:F:215:ILE:N	2.74	0.41
7:G:114:LEU:C	7:G:116:LYS:N	2.73	0.41
9:I:21:MET:HE3	19:L:6019:BCR:H352	2.02	0.41
11:K:100:GLY:O	11:K:104:ALA:HB2	2.21	0.41
12:L:78:LEU:HD12	12:L:78:LEU:C	2.38	0.41
12:L:96:LEU:HD23	12:L:96:LEU:O	2.21	0.41
12:L:96:LEU:C	12:L:96:LEU:CD2	2.85	0.41
12:L:177:GLN:O	12:L:178:THR:CB	2.68	0.41
14:1:46:PRO:CA	21:4:4005:CLA:O1A	2.63	0.41
14:1:61:PHE:CE2	26:1:1502:LUT:H182	2.56	0.41
14:1:107:LYS:HB3	14:1:107:LYS:HE3	1.88	0.41
26:1:1501:LUT:C39	21:1:1001:CLA:C3	2.99	0.41
15:2:118:MET:HG2	15:2:119:LEU:CD1	2.50	0.41
15:2:242:TRP:C	15:2:244:GLN:H	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2:260:LEU:CB	21:2:2008:CLA:HED1	2.50	0.41
21:2:2005:CLA:H112	21:2:2005:CLA:H143	1.81	0.41
21:3:3005:CLA:C4C	21:3:3012:CLA:O2A	2.69	0.41
17:4:97:LEU:O	17:4:101:ARG:HG3	2.21	0.41
17:4:101:ARG:HB2	21:4:4011:CLA:HED1	2.03	0.41
17:4:137:ALA:O	17:4:138:SER:OG	2.34	0.41
17:4:190:ILE:CB	21:4:4014:CLA:O2A	2.69	0.41
17:4:225:ASN:C	17:4:226:VAL:CG1	2.85	0.41
17:4:230:GLY:O	17:4:234:ASN:HB2	2.20	0.41
21:4:4015:CLA:H3A	21:4:4015:CLA:HBA2	1.80	0.41
1:A:42:ARG:CZ	1:A:43:THR:HG22	2.50	0.41
1:A:656:PHE:O	1:A:660:GLN:HB2	2.21	0.41
2:B:223:GLY:N	2:B:224:PRO:HD2	2.36	0.41
2:B:712:HIS:HE1	21:B:1239:CLA:O1D	2.04	0.41
21:B:1222:CLA:H201	21:B:1240:CLA:H111	2.02	0.41
21:B:1229:CLA:CGA	19:F:6014:BCR:H362	2.51	0.41
4:D:130:LEU:HD23	4:D:130:LEU:C	2.41	0.41
5:E:65:PRO:O	5:E:66:ILE:HD12	2.21	0.41
21:F:1303:CLA:ND	21:4:4012:CLA:H8	2.36	0.41
7:G:116:LYS:HG2	21:G:1002:CLA:C4A	2.50	0.41
8:H:134:LEU:HA	8:H:134:LEU:HD23	1.76	0.41
8:H:137:LYS:O	8:H:138:LEU:CB	2.69	0.41
21:J:6015:CLA:C2	21:J:6015:CLA:HAA2	2.51	0.41
14:1:141:SER:O	14:1:145:VAL:HG22	2.21	0.41
26:1:1501:LUT:H173	21:1:1003:CLA:HMB3	2.03	0.41
21:1:1002:CLA:H52	21:1:1002:CLA:O1D	2.21	0.41
16:3:158:THR:O	16:3:161:VAL:HG22	2.21	0.41
16:3:171:GLU:O	21:3:3012:CLA:CBB	2.69	0.41
17:4:186:TYR:HB3	21:4:4001:CLA:CGD	2.51	0.41
17:4:226:VAL:C	17:4:228:GLY:N	2.73	0.41
21:4:4002:CLA:H41	21:4:4002:CLA:H62	1.87	0.41
21:4:4007:CLA:HAA1	21:4:4007:CLA:HBD	2.03	0.41
21:4:4008:CLA:HMC1	21:4:4008:CLA:CBC	2.38	0.41
1:A:154:ARG:O	1:A:230:ASN:ND2	2.39	0.40
1:A:203:LEU:HD11	21:A:1123:CLA:C1D	2.51	0.40
1:A:681:GLY:O	1:A:685:VAL:HG22	2.21	0.40
2:B:526:GLY:HA2	2:B:582:TRP:CZ3	2.57	0.40
4:D:134:ARG:O	4:D:136:GLU:N	2.46	0.40
6:F:194:LYS:O	6:F:198:ILE:CG2	2.69	0.40
19:F:6016:BCR:H351	19:F:6016:BCR:H15C	1.78	0.40
19:J:6013:BCR:H342	19:J:6013:BCR:HC7	1.71	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:56:VAL:O	12:L:57:VAL:CG1	2.69	0.40
12:L:180:ASP:O	12:L:184:LYS:HG3	2.21	0.40
12:L:207:LEU:O	12:L:208:ASP:CB	2.69	0.40
13:N:127:PHE:HB2	13:N:128:PRO:HD2	2.02	0.40
21:1:1002:CLA:O1D	21:1:1002:CLA:C2	2.70	0.40
21:1:1004:CLA:H3A	21:1:1004:CLA:O2A	2.21	0.40
17:4:249:GLN:HG3	17:4:250:THR:N	2.36	0.40
21:4:4005:CLA:CHA	21:4:4005:CLA:O2A	2.69	0.40
21:4:4007:CLA:H61	21:4:4007:CLA:H41	1.87	0.40
21:B:1240:CLA:HMC1	14:1:76:PHE:CZ	2.56	0.40
21:B:9023:CLA:C14	19:I:6018:BCR:H331	2.50	0.40
8:H:99:ARG:HG2	8:H:100:GLY:N	2.36	0.40
11:K:47:ASP:HB3	11:K:48:PHE:H	1.50	0.40
12:L:199:TRP:O	12:L:202:PHE:HB3	2.21	0.40
14:1:173:ASP:HA	14:1:174:PRO:HD3	1.95	0.40
26:1:1501:LUT:H391	21:1:1001:CLA:H62	2.01	0.40
21:2:2010:CLA:HAA2	21:2:2010:CLA:HBD	2.03	0.40
21:2:2012:CLA:HMB1	21:2:2012:CLA:CBB	2.51	0.40
21:4:4003:CLA:CAB	26:4:4501:LUT:C18	2.99	0.40
21:4:4011:CLA:H202	21:4:4011:CLA:H161	1.92	0.40
21:4:4012:CLA:C15	21:4:4012:CLA:H203	2.50	0.40
1:A:64:PHE:CE2	1:A:77:LYS:HB3	2.57	0.40
21:A:9012:CLA:H111	21:A:9012:CLA:H152	1.92	0.40
2:B:98:GLN:N	8:H:124:ASP:OD2	2.54	0.40
21:B:1225:CLA:H142	21:B:1225:CLA:H111	1.85	0.40
21:B:1230:CLA:H41	21:B:1230:CLA:H61	1.79	0.40
7:G:93:GLU:OE1	7:G:99:THR:CB	2.69	0.40
12:L:56:VAL:HG11	12:L:72:PRO:HD3	2.03	0.40
12:L:64:PRO:CG	12:L:65:PHE:CD1	2.90	0.40
12:L:85:ASN:O	12:L:86:LEU:CB	2.69	0.40
19:L:6019:BCR:H23C	19:L:6019:BCR:H382	2.02	0.40
19:L:6019:BCR:H15C	19:L:6019:BCR:H351	1.76	0.40
21:1:1002:CLA:HAB	21:1:1007:CLA:HAA1	2.02	0.40
15:2:118:MET:HE2	21:2:2001:CLA:HHD	1.99	0.40
15:2:235:MET:HE3	21:2:2004:CLA:HHC	2.02	0.40
16:3:170:ALA:C	16:3:172:HIS:N	2.73	0.40
21:3:3003:CLA:HED1	21:3:3008:CLA:CAD	2.51	0.40
17:4:77:PHE:CD2	26:4:4502:LUT:H173	2.51	0.40
17:4:247:ILE:O	17:4:250:THR:N	2.52	0.40
21:4:4003:CLA:C1A	21:4:4003:CLA:O2A	2.69	0.40
1:A:281:LEU:HD12	1:A:281:LEU:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:THR:CG2	20:A:7003:LHG:O2	2.69	0.40
21:A:1136:CLA:H42	21:A:1136:CLA:C4C	2.51	0.40
2:B:474:PHE:HB3	2:B:476:VAL:HG23	2.03	0.40
2:B:649:MET:HA	2:B:652:PHE:HB3	2.04	0.40
21:B:1213:CLA:HBA1	21:B:1213:CLA:CHA	2.51	0.40
4:D:202:LYS:O	4:D:203:PHE:CB	2.69	0.40
6:F:109:TYR:O	6:F:110:ALA:CB	2.70	0.40
7:G:99:THR:O	7:G:101:PHE:HD1	2.04	0.40
7:G:121:ILE:HG23	7:G:122:VAL:N	2.36	0.40
8:H:63:ILE:HD12	12:L:170:LYS:CE	2.43	0.40
21:J:6014:CLA:C1A	21:J:6014:CLA:CGA	3.00	0.40
14:1:103:GLY:O	14:1:104:ASN:HB2	2.20	0.40
14:1:160:TYR:CD1	21:1:1001:CLA:O1D	2.74	0.40
14:1:201:GLN:HB3	14:1:211:LEU:HD13	2.03	0.40
14:1:217:HIS:O	14:1:218:LEU:CG	2.69	0.40
26:1:1501:LUT:C14	21:1:1002:CLA:HBD	2.51	0.40
21:1:1008:CLA:H91	21:1:1008:CLA:C12	2.43	0.40
20:1:1801:LHG:H371	21:4:4015:CLA:CMA	2.51	0.40
15:2:161:VAL:HG12	15:2:165:PHE:HE2	1.78	0.40
15:2:168:TRP:CA	21:4:4009:CLA:O1A	2.70	0.40
15:2:171:GLY:O	21:4:4009:CLA:HED1	2.21	0.40
21:2:2009:CLA:H2A	21:2:2009:CLA:HED3	1.99	0.40
21:2:2011:CLA:H91	21:2:2011:CLA:H111	1.73	0.40
21:2:2014:CLA:CMB	26:2:2501:LUT:O23	2.70	0.40
26:2:2501:LUT:H201	26:2:2501:LUT:H15	1.83	0.40
16:3:206:GLY:O	16:3:209:PHE:CE1	2.74	0.40
16:3:237:LEU:HD23	16:3:240:LEU:HD23	2.03	0.40
17:4:102:TRP:N	17:4:103:ALA:H	2.20	0.40
17:4:160:GLN:HG2	21:4:4005:CLA:HMA3	2.04	0.40
17:4:163:LYS:HE2	21:4:4005:CLA:HED2	2.01	0.40
17:4:170:GLN:HG3	17:4:171:ASP:H	1.86	0.40
21:4:4006:CLA:H93	21:4:4006:CLA:H112	1.87	0.40
1:A:92:TRP:CD1	21:A:1104:CLA:HBC1	2.57	0.40
1:A:629:ASN:HB3	1:A:630:ASP:H	1.75	0.40
1:A:649:ILE:HD13	1:A:649:ILE:HA	1.89	0.40
21:A:1130:CLA:C3D	12:L:73:VAL:HG11	2.52	0.40
2:B:200:PRO:HB3	2:B:205:GLU:OE2	2.22	0.40
2:B:433:THR:HG22	21:B:9010:CLA:H192	2.04	0.40
21:B:1228:CLA:CBB	21:B:1228:CLA:HHC	2.51	0.40
4:D:89:GLY:HA3	4:D:117:THR:HG22	2.03	0.40
5:E:74:VAL:HG21	5:E:90:VAL:CG1	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:2:ARG:HB3	15:2:99:ASP:OD1	2.20	0.40
12:L:50:GLU:C	12:L:52:PRO:HD3	2.42	0.40
12:L:166:LEU:O	12:L:167:THR:CB	2.69	0.40
12:L:171:LYS:O	12:L:172:GLN:CB	2.69	0.40
12:L:186:THR:O	12:L:189:PHE:N	2.55	0.40
14:1:186:LYS:NZ	20:1:1801:LHG:P	2.94	0.40
14:1:186:LYS:CE	21:1:1007:CLA:O2D	2.69	0.40
26:1:1502:LUT:H181	26:1:1502:LUT:C8	2.49	0.40
21:1:1006:CLA:O1A	21:1:1014:CLA:CMC	2.70	0.40
16:3:185:GLY:O	16:3:186:LYS:CB	2.70	0.40
16:3:256:ASN:O	16:3:260:HIS:HB3	2.21	0.40
21:3:3002:CLA:HAA2	21:3:3002:CLA:HBD	2.03	0.40
21:4:4002:CLA:HBA2	21:4:4002:CLA:CED	2.52	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	719/721 (100%)	666 (93%)	44 (6%)	9 (1%)	12 45
2	B	729/731 (100%)	702 (96%)	24 (3%)	3 (0%)	34 72
3	C	78/80 (98%)	69 (88%)	8 (10%)	1 (1%)	12 45
4	D	135/137 (98%)	104 (77%)	17 (13%)	14 (10%)	0 2
5	E	61/63 (97%)	51 (84%)	7 (12%)	3 (5%)	2 13
6	F	150/152 (99%)	128 (85%)	17 (11%)	5 (3%)	4 21
7	G	82/84 (98%)	65 (79%)	10 (12%)	7 (8%)	1 4
8	H	80/82 (98%)	67 (84%)	6 (8%)	7 (9%)	1 3
9	I	24/26 (92%)	23 (96%)	1 (4%)	0	100 100
10	J	38/40 (95%)	36 (95%)	0	2 (5%)	2 11

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	K	62/72 (86%)	50 (81%)	10 (16%)	2 (3%)	4	22
12	L	161/163 (99%)	135 (84%)	14 (9%)	12 (8%)	1	5
13	N	83/85 (98%)	44 (53%)	20 (24%)	19 (23%)	0	0
14	1	167/182 (92%)	146 (87%)	10 (6%)	11 (7%)	1	6
15	2	140/199 (70%)	112 (80%)	18 (13%)	10 (7%)	1	5
16	3	145/275 (53%)	98 (68%)	26 (18%)	21 (14%)	0	1
17	4	193/196 (98%)	152 (79%)	22 (11%)	19 (10%)	0	2
All	All	3047/3288 (93%)	2648 (87%)	254 (8%)	145 (5%)	2	13

All (145) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	46	LYS
4	D	77	PRO
5	E	66	ILE
5	E	102	PRO
7	G	92	PRO
7	G	100	HIS
7	G	104	GLY
7	G	117	SER
7	G	118	ALA
8	H	80	PRO
8	H	135	PRO
10	J	11	ALA
12	L	57	VAL
12	L	173	PRO
12	L	206	VAL
13	N	96	LYS
13	N	97	ALA
13	N	144	PRO
13	N	148	GLU
13	N	150	LEU
14	1	151	MET
14	1	155	PRO
14	1	206	PRO
15	2	77	PRO
15	2	96	LEU
15	2	154	ASP
15	2	249	GLY
16	3	90	PRO

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Mol	Chain	Res	Type
16	3	200	ASN
16	3	201	PRO
16	3	243	PHE
17	4	207	ILE
17	4	208	ALA
17	4	228	GLY
1	A	430	ASP
1	A	662	SER
4	D	170	LYS
6	F	138	LEU
6	F	140	CYS
7	G	106	GLU
7	G	108	ALA
8	H	74	GLY
12	L	68	SER
12	L	86	LEU
12	L	90	ARG
12	L	122	ASN
13	N	94	LYS
13	N	114	PHE
13	N	118	TYR
13	N	124	THR
13	N	125	CYS
13	N	126	LYS
13	N	128	PRO
13	N	132	THR
13	N	151	GLU
14	1	174	PRO
15	2	153	THR
16	3	99	PRO
16	3	171	GLU
16	3	172	HIS
16	3	184	MET
16	3	215	GLY
16	3	221	LEU
17	4	200	LEU
17	4	230	GLY
17	4	240	SER
1	A	121	GLN
1	A	610	SER
2	B	74	PHE
2	B	492	ILE

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Mol	Chain	Res	Type
4	D	115	MET
4	D	128	ASN
4	D	148	LYS
4	D	168	HIS
4	D	203	PHE
6	F	205	ARG
8	H	83	PRO
10	J	40	PRO
11	K	74	PRO
11	K	77	ASN
13	N	117	ALA
13	N	121	GLN
13	N	140	GLN
13	N	158	ASP
14	1	148	GLN
15	2	88	ASP
15	2	92	ASP
16	3	150	TYR
16	3	169	PHE
16	3	173	ARG
16	3	224	LEU
16	3	242	TYR
17	4	171	ASP
17	4	177	TYR
17	4	180	PRO
17	4	183	GLU
17	4	195	ASN
17	4	196	PHE
17	4	198	PRO
17	4	242	PRO
4	D	120	ALA
4	D	199	ILE
8	H	77	ALA
8	H	99	ARG
12	L	128	ALA
12	L	178	THR
12	L	208	ASP
15	2	247	TYR
16	3	218	GLU
16	3	219	LYS
16	3	245	GLN
17	4	103	ALA

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Mol	Chain	Res	Type
2	B	559	CYS
3	C	62	PHE
4	D	159	PHE
4	D	171	ASP
4	D	185	VAL
5	E	68	PRO
6	F	189	LYS
6	F	201	PRO
13	N	115	ALA
14	1	129	GLY
14	1	154	ASP
14	1	205	TYR
14	1	225	ASN
15	2	69	PRO
16	3	232	GLY
17	4	227	THR
1	A	238	ASP
4	D	183	GLN
8	H	78	PRO
14	1	152	GLU
16	3	181	PRO
15	2	74	GLY
17	4	187	PRO
12	L	172	GLN
1	A	127	VAL
1	A	267	THR
4	D	160	PRO
17	4	226	VAL
17	4	241	ASP
1	A	48	PRO
12	L	60	ILE
16	3	264	PRO
14	1	127	PRO

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	583/584 (100%)	553 (95%)	30 (5%)	24	60
2	B	596/600 (99%)	577 (97%)	19 (3%)	39	74
3	C	69/69 (100%)	65 (94%)	4 (6%)	20	55
4	D	114/117 (97%)	99 (87%)	15 (13%)	4	18
5	E	56/56 (100%)	47 (84%)	9 (16%)	2	12
6	F	124/125 (99%)	114 (92%)	10 (8%)	11	40
7	G	65/66 (98%)	52 (80%)	13 (20%)	1	7
8	H	67/68 (98%)	52 (78%)	15 (22%)	1	4
9	I	22/22 (100%)	19 (86%)	3 (14%)	3	17
10	J	33/33 (100%)	30 (91%)	3 (9%)	9	34
11	K	46/52 (88%)	41 (89%)	5 (11%)	6	25
12	L	126/129 (98%)	113 (90%)	13 (10%)	7	28
13	N	73/73 (100%)	62 (85%)	11 (15%)	3	14
14	1	123/148 (83%)	106 (86%)	17 (14%)	3	17
15	2	108/162 (67%)	92 (85%)	16 (15%)	3	14
16	3	103/213 (48%)	76 (74%)	27 (26%)	0	2
17	4	134/162 (83%)	113 (84%)	21 (16%)	2	13
All	All	2442/2679 (91%)	2211 (90%)	231 (10%)	8	32

All (231) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	40	PHE
1	A	42	ARG
1	A	49	ASP
1	A	78	VAL
1	A	89	ILE
1	A	90	PHE
1	A	110	LEU
1	A	115	HIS
1	A	141	ARG
1	A	159	THR
1	A	167	THR
1	A	172	LEU
1	A	185	HIS
1	A	188	LYS
1	A	257	GLN

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Mol	Chain	Res	Type
1	A	258	LEU
1	A	272	LEU
1	A	309	LEU
1	A	315	HIS
1	A	341	GLN
1	A	364	MET
1	A	433	ASP
1	A	472	ARG
1	A	565	SER
1	A	630	ASP
1	A	638	THR
1	A	644	GLN
1	A	678	PHE
1	A	685	VAL
1	A	728	VAL
2	B	5	ILE
2	B	85	ARG
2	B	164	SER
2	B	172	GLU
2	B	220	GLN
2	B	275	HIS
2	B	280	ILE
2	B	292	ARG
2	B	332	PHE
2	B	354	SER
2	B	427	LEU
2	B	441	ASP
2	B	444	LEU
2	B	481	THR
2	B	486	LEU
2	B	574	ASP
2	B	577	TYR
2	B	636	THR
2	B	694	ARG
3	C	11	CYS
3	C	16	GLN
3	C	46	GLU
3	C	53	ARG
4	D	79	THR
4	D	91	LEU
4	D	93	ARG
4	D	99	GLU

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Mol	Chain	Res	Type
4	D	115	MET
4	D	117	THR
4	D	124	ARG
4	D	128	ASN
4	D	149	TYR
4	D	154	GLN
4	D	156	TYR
4	D	190	ARG
4	D	199	ILE
4	D	206	LYS
4	D	207	GLN
5	E	68	PRO
5	E	74	VAL
5	E	78	ARG
5	E	80	GLU
5	E	92	THR
5	E	95	GLN
5	E	109	LYS
5	E	119	ASN
5	E	123	ASP
6	F	82	LEU
6	F	87	GLU
6	F	179	ARG
6	F	198	ILE
6	F	200	VAL
6	F	213	TRP
6	F	218	TYR
6	F	222	LEU
6	F	225	GLU
6	F	227	VAL
7	G	66	LEU
7	G	68	THR
7	G	74	LEU
7	G	93	GLU
7	G	94	GLN
7	G	101	PHE
7	G	105	ASP
7	G	111	TYR
7	G	114	LEU
7	G	116	LYS
7	G	117	SER
7	G	140	LEU

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Mol	Chain	Res	Type
7	G	141	THR
8	H	58	PHE
8	H	59	ASP
8	H	60	LEU
8	H	62	ASP
8	H	70	TRP
8	H	73	TYR
8	H	83	PRO
8	H	99	ARG
8	H	101	LEU
8	H	113	THR
8	H	114	LEU
8	H	124	ASP
8	H	126	LEU
8	H	128	ILE
8	H	135	PRO
9	I	7	LEU
9	I	11	LEU
9	I	14	LEU
10	J	8	LEU
10	J	15	SER
10	J	16	THR
11	K	47	ASP
11	K	54	ASN
11	K	64	MET
11	K	102	THR
11	K	118	VAL
12	L	51	LYS
12	L	64	PRO
12	L	66	ILE
12	L	102	VAL
12	L	120	LEU
12	L	123	THR
12	L	125	TYR
12	L	163	SER
12	L	164	LEU
12	L	165	THR
12	L	167	THR
12	L	172	GLN
12	L	176	LEU
13	N	87	VAL
13	N	91	TYR

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Mol	Chain	Res	Type
13	N	96	LYS
13	N	99	LYS
13	N	103	ASP
13	N	106	ARG
13	N	120	VAL
13	N	130	ASN
13	N	150	LEU
13	N	155	GLU
13	N	158	ASP
14	1	47	ARG
14	1	66	LEU
14	1	94	ILE
14	1	102	LEU
14	1	105	TRP
14	1	111	TRP
14	1	114	LEU
14	1	131	LEU
14	1	137	ILE
14	1	145	VAL
14	1	147	HIS
14	1	148	GLN
14	1	154	ASP
14	1	170	TYR
14	1	173	ASP
14	1	203	SER
14	1	221	PRO
15	2	63	VAL
15	2	70	LEU
15	2	72	PHE
15	2	91	PHE
15	2	96	LEU
15	2	98	SER
15	2	99	ASP
15	2	111	LEU
15	2	113	HIS
15	2	126	ILE
15	2	153	THR
15	2	158	LEU
15	2	163	LEU
15	2	243	PHE
15	2	252	PRO
15	2	254	ASP

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Mol	Chain	Res	Type
16	3	87	LEU
16	3	91	GLU
16	3	96	PHE
16	3	101	TRP
16	3	102	LEU
16	3	111	ARG
16	3	121	ILE
16	3	153	TRP
16	3	161	VAL
16	3	162	LEU
16	3	166	LEU
16	3	169	PHE
16	3	172	HIS
16	3	173	ARG
16	3	174	ARG
16	3	184	MET
16	3	200	ASN
16	3	209	PHE
16	3	216	LYS
16	3	225	LYS
16	3	236	MET
16	3	242	TYR
16	3	245	GLN
16	3	251	VAL
16	3	255	GLN
16	3	260	HIS
16	3	261	VAL
17	4	66	TYR
17	4	80	LEU
17	4	141	THR
17	4	151	PHE
17	4	156	ILE
17	4	170	GLN
17	4	173	ILE
17	4	174	PHE
17	4	179	LEU
17	4	186	TYR
17	4	196	PHE
17	4	199	THR
17	4	200	LEU
17	4	221	ILE
17	4	226	VAL

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Mol	Chain	Res	Type
17	4	234	ASN
17	4	239	ILE
17	4	243	TRP
17	4	245	ASN
17	4	247	ILE
17	4	249	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (25) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	204	ASN
1	A	303	HIS
1	A	615	HIS
2	B	115	ASN
4	D	96	GLN
4	D	128	ASN
7	G	94	GLN
8	H	69	GLN
12	L	58	GLN
12	L	85	ASN
12	L	122	ASN
12	L	172	GLN
14	1	201	GLN
14	1	202	GLN
14	1	217	HIS
15	2	113	HIS
15	2	255	ASN
16	3	200	ASN
16	3	256	ASN
17	4	99	ASN
17	4	170	GLN
17	4	225	ASN
17	4	234	ASN
17	4	244	HIS
17	4	249	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)

200 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
21	CLA	3	3016	-	45,53,73	2.78	19 (42%)	52,89,113	2.88	20 (38%)
21	CLA	B	1236	-	55,63,73	2.56	20 (36%)	64,101,113	2.82	22 (34%)
21	CLA	2	2013	-	65,73,73	2.20	19 (29%)	76,113,113	2.71	28 (36%)
21	CLA	4	4012	-	65,73,73	2.28	18 (27%)	76,113,113	2.72	21 (27%)
23	CL0	A	9011	-	65,73,73	2.32	18 (27%)	76,113,113	2.60	28 (36%)
21	CLA	A	1117	-	65,73,73	2.39	19 (29%)	76,113,113	2.55	24 (31%)
21	CLA	A	1112	-	46,54,73	2.88	20 (43%)	53,90,113	2.85	20 (37%)
21	CLA	2	2012	15	65,73,73	2.22	19 (29%)	76,113,113	2.69	24 (31%)
21	CLA	B	1216	-	65,73,73	2.36	19 (29%)	76,113,113	2.52	23 (30%)
21	CLA	4	4001	17	65,73,73	2.32	19 (29%)	76,113,113	2.64	26 (34%)
21	CLA	A	1132	-	65,73,73	2.29	19 (29%)	76,113,113	2.55	24 (31%)
21	CLA	J	6014	-	61,69,73	2.46	20 (32%)	71,108,113	2.66	21 (29%)
21	CLA	B	1225	-	65,73,73	2.39	19 (29%)	76,113,113	2.54	23 (30%)
21	CLA	A	1106	1	65,73,73	2.37	19 (29%)	76,113,113	2.62	23 (30%)
21	CLA	A	1123	-	65,73,73	2.40	20 (30%)	76,113,113	2.63	24 (31%)
21	CLA	A	1122	-	59,67,73	2.51	21 (35%)	68,105,113	2.76	22 (32%)
21	CLA	3	3005	21	45,53,73	2.77	19 (42%)	52,89,113	2.92	20 (38%)
21	CLA	A	1114	-	46,54,73	2.90	20 (43%)	53,90,113	2.85	19 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
21	CLA	B	1212	-	46,54,73	2.88	19 (41%)	53,90,113	2.84	21 (39%)
19	BCR	B	6009	-	41,41,41	2.72	6 (14%)	56,56,56	6.37	21 (37%)
21	CLA	B	1219	-	60,68,73	2.46	20 (33%)	70,107,113	2.60	22 (31%)
21	CLA	B	1215	-	60,68,73	2.46	19 (31%)	70,107,113	2.65	23 (32%)
21	CLA	A	1142	-	44,52,73	2.72	17 (38%)	55,88,113	2.96	21 (38%)
21	CLA	F	1301	-	45,53,73	2.74	18 (40%)	52,89,113	2.90	19 (36%)
21	CLA	J	6015	-	55,63,73	2.55	20 (36%)	64,101,113	2.81	23 (35%)
21	CLA	3	3011	-	46,54,73	2.76	19 (41%)	53,90,113	3.03	21 (39%)
21	CLA	A	1109	-	65,73,73	2.37	19 (29%)	76,113,113	2.62	24 (31%)
21	CLA	A	1125	-	55,63,73	2.45	19 (34%)	64,101,113	2.98	26 (40%)
21	CLA	A	1113	-	46,54,73	2.88	19 (41%)	53,90,113	2.85	19 (35%)
21	CLA	3	3008	-	65,73,73	2.25	19 (29%)	76,113,113	2.72	22 (28%)
21	CLA	B	1211	-	65,73,73	2.38	19 (29%)	76,113,113	2.58	23 (30%)
25	LMG	G	2021	-	23,23,55	1.27	2 (8%)	31,31,63	1.77	7 (22%)
21	CLA	B	1237	-	60,68,73	2.46	19 (31%)	70,107,113	2.67	22 (31%)
21	CLA	2	2014	-	45,53,73	2.65	19 (42%)	52,89,113	3.21	23 (44%)
21	CLA	2	2011	-	60,68,73	2.35	20 (33%)	70,107,113	2.86	26 (37%)
21	CLA	4	4004	-	65,73,73	2.22	20 (30%)	76,113,113	2.69	25 (32%)
19	BCR	J	6012	-	41,41,41	2.72	6 (14%)	56,56,56	7.59	28 (50%)
21	CLA	1	1006	-	47,55,73	2.73	20 (42%)	54,91,113	3.12	23 (42%)
21	CLA	4	4002	-	56,64,73	2.41	19 (33%)	65,102,113	3.22	25 (38%)
22	SF4	A	8001	-	0,12,12	-	-	-		
21	CLA	2	2008	-	65,73,73	2.30	19 (29%)	76,113,113	2.82	28 (36%)
21	CLA	L	1501	12	46,54,73	2.82	19 (41%)	53,90,113	2.87	20 (37%)
21	CLA	A	1101	-	65,73,73	2.37	19 (29%)	76,113,113	2.63	22 (28%)
21	CLA	3	3003	-	60,68,73	2.43	19 (31%)	70,107,113	2.81	24 (34%)
21	CLA	B	1208	-	55,63,73	2.58	20 (36%)	64,101,113	2.79	21 (32%)
21	CLA	B	1227	-	65,73,73	2.24	18 (27%)	76,113,113	2.73	23 (30%)
21	CLA	1	1004	14	65,73,73	2.27	20 (30%)	76,113,113	2.56	21 (27%)
21	CLA	3	3004	-	45,53,73	2.75	18 (40%)	52,89,113	2.91	19 (36%)
21	CLA	4	4013	-	51,59,73	2.51	19 (37%)	59,96,113	3.00	23 (38%)
21	CLA	F	1303	-	64,72,73	2.35	19 (29%)	74,111,113	2.41	25 (33%)
26	LUT	1	1501	-	42,43,43	2.48	3 (7%)	51,60,60	3.14	29 (56%)
21	CLA	2	2004	15	60,67,73	2.49	20 (33%)	65,105,113	2.93	19 (29%)
21	CLA	B	1218	-	60,68,73	2.46	19 (31%)	70,107,113	2.76	23 (32%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
21	CLA	A	1103	-	65,73,73	2.37	19 (29%)	76,113,113	2.57	24 (31%)
21	CLA	A	9013	-	65,73,73	2.28	17 (26%)	76,113,113	2.74	29 (38%)
21	CLA	A	1118	-	46,54,73	2.83	19 (41%)	53,90,113	2.97	22 (41%)
21	CLA	B	1224	-	65,73,73	2.37	19 (29%)	76,113,113	2.56	22 (28%)
21	CLA	2	2002	-	60,68,73	2.34	19 (31%)	70,107,113	2.88	25 (35%)
21	CLA	3	3017	-	45,53,73	2.75	18 (40%)	52,89,113	3.02	19 (36%)
21	CLA	B	1220	-	65,73,73	2.38	20 (30%)	76,113,113	2.58	23 (30%)
21	CLA	1	1013	-	65,73,73	2.23	19 (29%)	76,113,113	2.77	28 (36%)
21	CLA	1	1014	-	45,53,73	2.65	18 (40%)	52,89,113	3.03	20 (38%)
20	LHG	B	7004	21	48,48,48	0.97	2 (4%)	51,54,54	1.06	4 (7%)
19	BCR	F	6016	-	41,41,41	2.81	6 (14%)	56,56,56	7.79	36 (64%)
21	CLA	F	1302	-	46,54,73	2.88	20 (43%)	53,90,113	2.80	19 (35%)
21	CLA	A	1135	-	51,59,73	2.67	19 (37%)	59,96,113	2.93	23 (38%)
22	SF4	C	8003	-	0,12,12	-	-	-		
21	CLA	A	1143	-	45,53,73	2.76	19 (42%)	52,89,113	2.88	19 (36%)
24	DGD	B	7101	-	62,62,67	0.88	1 (1%)	76,76,81	1.37	11 (14%)
21	CLA	B	1204	-	55,63,73	2.58	20 (36%)	64,101,113	2.74	23 (35%)
21	CLA	B	9023	-	65,73,73	2.30	20 (30%)	76,113,113	2.60	29 (38%)
21	CLA	B	1231	-	46,54,73	2.87	19 (41%)	53,90,113	2.86	22 (41%)
21	CLA	G	1002	-	46,54,73	2.68	18 (39%)	53,90,113	3.04	25 (47%)
27	NEX	4	4503	-	38,46,46	3.17	12 (31%)	50,70,70	2.50	24 (48%)
21	CLA	4	4008	-	48,56,73	2.65	17 (35%)	55,92,113	3.37	27 (49%)
21	CLA	A	1134	1	46,54,73	2.88	20 (43%)	53,90,113	2.86	19 (35%)
21	CLA	4	4006	-	65,73,73	2.16	18 (27%)	76,113,113	3.14	31 (40%)
19	BCR	L	6019	-	41,41,41	2.83	6 (14%)	56,56,56	6.44	25 (44%)
21	CLA	1	1007	20	55,63,73	2.44	19 (34%)	64,101,113	2.96	27 (42%)
25	LMG	J	5001	-	35,35,55	1.11	2 (5%)	43,43,63	1.11	2 (4%)
21	CLA	4	4009	17	50,58,73	2.49	18 (36%)	58,95,113	3.12	22 (37%)
21	CLA	A	1130	-	46,54,73	2.84	19 (41%)	53,90,113	2.83	20 (37%)
20	LHG	2	2801	21	35,35,48	1.13	3 (8%)	38,41,54	1.12	3 (7%)
21	CLA	B	1203	2	60,68,73	2.47	20 (33%)	70,107,113	2.65	21 (30%)
19	BCR	F	6014	-	41,41,41	2.69	6 (14%)	56,56,56	7.84	36 (64%)
21	CLA	A	1108	-	46,54,73	2.88	19 (41%)	53,90,113	2.85	20 (37%)
21	CLA	B	1210	-	65,73,73	2.41	20 (30%)	76,113,113	2.61	24 (31%)
21	CLA	2	2001	15	29,35,73	3.19	15 (51%)	28,60,113	3.61	15 (53%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
21	CLA	4	4014	17	45,53,73	2.69	18 (40%)	52,89,113	2.94	26 (50%)
21	CLA	A	1133	-	46,54,73	2.73	19 (41%)	53,90,113	2.92	22 (41%)
21	CLA	A	1104	1	65,73,73	2.36	19 (29%)	76,113,113	2.62	22 (28%)
21	CLA	A	1111	-	60,68,73	2.46	19 (31%)	70,107,113	2.74	23 (32%)
19	BCR	I	6018	-	41,41,41	2.64	6 (14%)	56,56,56	7.70	34 (60%)
18	PQN	B	5002	-	34,34,34	1.61	2 (5%)	42,45,45	1.09	5 (11%)
21	CLA	A	1116	-	54,62,73	2.60	20 (37%)	62,99,113	2.80	22 (35%)
21	CLA	B	1234	-	60,68,73	2.48	20 (33%)	70,107,113	2.67	22 (31%)
21	CLA	L	1503	-	50,58,73	2.66	19 (38%)	58,95,113	2.93	23 (39%)
21	CLA	B	1226	-	65,73,73	2.24	19 (29%)	76,113,113	2.78	21 (27%)
21	CLA	A	1110	-	55,63,73	2.55	19 (34%)	64,101,113	2.76	24 (37%)
21	CLA	A	1129	-	50,58,73	2.66	18 (36%)	58,95,113	2.92	22 (37%)
21	CLA	A	1121	-	46,54,73	2.85	20 (43%)	53,90,113	2.93	18 (33%)
21	CLA	B	1239	-	65,73,73	2.27	17 (26%)	76,113,113	2.92	27 (35%)
21	CLA	1	1001	14	55,63,73	2.48	18 (32%)	64,101,113	2.91	26 (40%)
21	CLA	3	3001	-	65,73,73	2.34	20 (30%)	76,113,113	2.70	24 (31%)
21	CLA	B	1228	-	51,59,73	2.54	19 (37%)	59,96,113	2.97	24 (40%)
21	CLA	2	2007	20	55,63,73	2.41	19 (34%)	64,101,113	2.80	28 (43%)
21	CLA	A	1119	-	65,73,73	2.37	19 (29%)	76,113,113	2.54	22 (28%)
19	BCR	I	6020	-	41,41,41	2.82	6 (14%)	56,56,56	6.69	22 (39%)
19	BCR	B	6006	-	41,41,41	2.77	6 (14%)	56,56,56	8.02	35 (62%)
21	CLA	B	1222	-	65,73,73	2.38	20 (30%)	76,113,113	2.60	24 (31%)
21	CLA	2	2006	-	57,65,73	2.49	19 (33%)	66,103,113	2.85	22 (33%)
21	CLA	3	3002	-	55,63,73	2.59	19 (34%)	64,101,113	2.88	24 (37%)
19	BCR	A	6003	-	41,41,41	2.88	6 (14%)	56,56,56	6.44	25 (44%)
19	BCR	B	6005	-	41,41,41	2.72	6 (14%)	56,56,56	7.10	27 (48%)
21	CLA	B	1240	20	65,73,73	2.27	18 (27%)	76,113,113	2.75	31 (40%)
19	BCR	G	2011	-	41,41,41	2.95	6 (14%)	56,56,56	6.73	25 (44%)
21	CLA	B	1207	-	65,73,73	2.38	19 (29%)	76,113,113	2.63	24 (31%)
21	CLA	A	1140	-	65,73,73	2.40	19 (29%)	76,113,113	2.57	22 (28%)
21	CLA	B	1202	-	65,73,73	2.37	19 (29%)	76,113,113	2.60	21 (27%)
21	CLA	G	1001	-	55,63,73	2.43	19 (34%)	64,101,113	3.20	27 (42%)
21	CLA	B	1206	2	65,73,73	2.35	19 (29%)	76,113,113	2.61	26 (34%)
21	CLA	A	1105	-	51,59,73	2.69	20 (39%)	59,96,113	2.91	22 (37%)
26	LUT	1	1502	-	42,43,43	2.42	5 (11%)	51,60,60	3.29	30 (58%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
19	BCR	L	6020	-	41,41,41	2.81	6 (14%)	56,56,56	6.48	24 (42%)
21	CLA	A	1115	-	56,64,73	2.57	20 (35%)	65,102,113	2.73	22 (33%)
21	CLA	1	1011	-	65,73,73	2.19	18 (27%)	76,113,113	2.91	27 (35%)
20	LHG	A	7003	21	48,48,48	0.96	2 (4%)	51,54,54	1.02	3 (5%)
21	CLA	B	1235	-	65,73,73	2.36	20 (30%)	76,113,113	2.60	22 (28%)
21	CLA	B	1217	-	46,54,73	2.86	19 (41%)	53,90,113	2.83	20 (37%)
21	CLA	B	1238	-	65,73,73	2.38	20 (30%)	76,113,113	2.58	23 (30%)
21	CLA	J	1302	-	61,69,73	2.48	19 (31%)	71,108,113	2.63	22 (30%)
21	CLA	A	1128	-	65,73,73	2.32	18 (27%)	76,113,113	2.61	25 (32%)
20	LHG	1	1801	21	48,48,48	0.90	2 (4%)	51,54,54	1.15	3 (5%)
21	CLA	4	4011	-	65,73,73	2.23	18 (27%)	76,113,113	2.67	23 (30%)
21	CLA	2	2010	-	65,73,73	2.30	19 (29%)	76,113,113	2.56	24 (31%)
21	CLA	B	9010	-	65,73,73	2.30	18 (27%)	76,113,113	2.72	26 (34%)
21	CLA	3	3014	-	45,53,73	2.68	17 (37%)	52,89,113	3.14	21 (40%)
21	CLA	2	2003	-	65,73,73	2.31	21 (32%)	76,113,113	2.85	24 (31%)
28	G3P	4	4505	-	9,9,9	0.61	0	11,12,12	0.69	0
21	CLA	A	1127	-	65,73,73	2.38	20 (30%)	76,113,113	2.56	22 (28%)
21	CLA	4	4005	17	45,53,73	2.61	18 (40%)	52,89,113	3.42	27 (51%)
21	CLA	A	1137	-	55,63,73	2.56	19 (34%)	64,101,113	2.81	24 (37%)
20	LHG	A	7001	-	48,48,48	0.95	2 (4%)	51,54,54	1.07	4 (7%)
21	CLA	A	1102	-	50,58,73	2.70	20 (40%)	58,95,113	2.98	22 (37%)
21	CLA	3	3010	-	52,60,73	2.50	18 (34%)	60,97,113	3.08	28 (46%)
26	LUT	2	2502	-	42,43,43	2.50	3 (7%)	51,60,60	2.42	11 (21%)
26	LUT	2	2501	-	42,43,43	2.46	2 (4%)	51,60,60	2.03	15 (29%)
21	CLA	B	9022	-	65,73,73	2.43	19 (29%)	76,113,113	2.55	29 (38%)
26	LUT	4	4502	-	42,43,43	2.45	4 (9%)	51,60,60	3.32	25 (49%)
21	CLA	L	1502	-	65,73,73	2.33	19 (29%)	76,113,113	2.62	22 (28%)
21	CLA	B	1209	-	46,54,73	2.87	20 (43%)	53,90,113	2.84	20 (37%)
26	LUT	4	4501	-	42,43,43	2.42	2 (4%)	51,60,60	2.89	26 (50%)
21	CLA	B	1230	-	58,66,73	2.48	19 (32%)	67,104,113	2.81	24 (35%)
18	PQN	A	5001	-	34,34,34	1.63	2 (5%)	42,45,45	1.15	4 (9%)
19	BCR	A	6017	-	41,41,41	2.71	6 (14%)	56,56,56	6.49	26 (46%)
21	CLA	B	1214	-	59,67,73	2.48	20 (33%)	68,105,113	2.76	23 (33%)
21	CLA	4	4003	17	65,73,73	2.24	19 (29%)	76,113,113	2.45	24 (31%)
21	CLA	A	1120	-	46,54,73	2.88	19 (41%)	53,90,113	2.83	19 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
21	CLA	1	1005	-	56,64,73	2.40	19 (33%)	65,102,113	2.86	24 (36%)
21	CLA	1	1003	14	65,73,73	2.30	18 (27%)	76,113,113	2.64	26 (34%)
21	CLA	1	1008	-	65,73,73	2.23	20 (30%)	76,113,113	2.62	22 (28%)
21	CLA	1	1012	14	50,58,73	2.54	18 (36%)	58,95,113	3.00	26 (44%)
21	CLA	A	1107	1	51,59,73	2.70	20 (39%)	59,96,113	2.95	26 (44%)
21	CLA	A	1124	-	55,63,73	2.59	19 (34%)	64,101,113	2.78	23 (35%)
21	CLA	2	2009	15	46,54,73	2.75	19 (41%)	53,90,113	2.94	22 (41%)
21	CLA	2	2005	-	65,73,73	2.20	19 (29%)	76,113,113	2.75	26 (34%)
21	CLA	A	1141	20	51,59,73	2.70	20 (39%)	59,96,113	2.87	22 (37%)
21	CLA	B	1223	-	65,73,73	2.37	19 (29%)	76,113,113	2.64	24 (31%)
21	CLA	B	1205	-	65,73,73	2.37	19 (29%)	76,113,113	2.60	23 (30%)
21	CLA	A	1138	-	65,73,73	2.38	20 (30%)	76,113,113	2.57	23 (30%)
22	SF4	C	8002	3	0,12,12	-	-	-		
21	CLA	H	1000	8	46,54,73	2.85	19 (41%)	53,90,113	2.89	21 (39%)
21	CLA	3	3015	-	45,53,73	2.76	19 (42%)	52,89,113	2.89	19 (36%)
21	CLA	A	9012	-	65,73,73	2.34	20 (30%)	76,113,113	2.58	27 (35%)
21	CLA	1	1009	-	65,73,73	2.36	20 (30%)	76,113,113	2.88	27 (35%)
19	BCR	A	6002	-	41,41,41	2.81	6 (14%)	56,56,56	6.76	22 (39%)
21	CLA	A	1136	-	65,73,73	2.37	19 (29%)	76,113,113	2.62	24 (31%)
21	CLA	3	3013	-	50,58,73	2.64	20 (40%)	58,95,113	3.06	24 (41%)
21	CLA	A	1139	-	65,73,73	2.38	20 (30%)	76,113,113	2.56	22 (28%)
19	BCR	B	6011	-	25,25,41	3.34	5 (20%)	33,33,56	7.52	17 (51%)
19	BCR	B	6010	-	41,41,41	2.72	6 (14%)	56,56,56	6.85	23 (41%)
21	CLA	B	1201	-	46,54,73	2.87	20 (43%)	53,90,113	2.87	21 (39%)
21	CLA	A	1126	-	65,73,73	2.37	20 (30%)	76,113,113	2.57	25 (32%)
21	CLA	B	1213	-	60,68,73	2.33	19 (31%)	70,107,113	2.70	25 (35%)
21	CLA	4	4007	-	65,73,73	2.28	19 (29%)	76,113,113	2.62	20 (26%)
21	CLA	4	4015	-	46,54,73	2.75	18 (39%)	53,90,113	2.86	23 (43%)
21	CLA	B	1221	-	54,62,73	2.61	19 (35%)	62,99,113	2.87	23 (37%)
21	CLA	1	1010	-	65,73,73	2.20	19 (29%)	76,113,113	2.62	21 (27%)
19	BCR	B	6004	-	41,41,41	2.90	7 (17%)	56,56,56	6.50	29 (51%)
21	CLA	3	3009	-	46,54,73	2.77	20 (43%)	53,90,113	3.17	25 (47%)
19	BCR	A	6008	-	41,41,41	2.63	6 (14%)	56,56,56	7.65	38 (67%)
21	CLA	1	1002	-	56,64,73	2.52	16 (28%)	65,102,113	2.91	24 (36%)
19	BCR	A	6011	-	41,41,41	2.78	6 (14%)	56,56,56	7.79	34 (60%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
21	CLA	3	3012	16,21	45,53,73	2.61	19 (42%)	52,89,113	3.32	26 (50%)
19	BCR	A	6007	-	41,41,41	2.75	6 (14%)	56,56,56	6.73	26 (46%)
21	CLA	4	4010	-	50,58,73	2.58	18 (36%)	58,95,113	3.13	27 (46%)
21	CLA	A	1131	-	65,73,73	2.26	19 (29%)	76,113,113	2.64	24 (31%)
21	CLA	B	1229	-	65,73,73	2.37	20 (30%)	76,113,113	2.59	22 (28%)
21	CLA	3	3006	-	65,73,73	2.39	20 (30%)	76,113,113	2.55	22 (28%)
19	BCR	J	6013	-	41,41,41	2.79	6 (14%)	56,56,56	6.91	22 (39%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	3	3016	-	1/1/11/20	4/13/91/115	-
21	CLA	B	1236	-	1/1/13/20	9/25/103/115	-
21	CLA	2	2013	-	1/1/15/20	18/37/115/115	-
21	CLA	4	4012	-	1/1/15/20	16/37/115/115	-
23	CL0	A	9011	-	3/3/20/25	15/37/135/135	-
21	CLA	A	1117	-	1/1/15/20	14/37/115/115	-
21	CLA	A	1112	-	1/1/11/20	4/15/93/115	-
21	CLA	2	2012	15	1/1/15/20	16/37/115/115	-
21	CLA	B	1216	-	1/1/15/20	11/37/115/115	-
21	CLA	4	4001	17	1/1/15/20	16/37/115/115	-
21	CLA	A	1132	-	1/1/15/20	17/37/115/115	-
21	CLA	J	6014	-	1/1/14/20	14/33/111/115	-
21	CLA	B	1225	-	1/1/15/20	19/37/115/115	-
21	CLA	A	1106	1	1/1/15/20	15/37/115/115	-
21	CLA	A	1123	-	1/1/15/20	10/37/115/115	-
21	CLA	A	1122	-	1/1/13/20	15/30/108/115	-
21	CLA	3	3005	21	1/1/11/20	8/13/91/115	-
21	CLA	A	1114	-	1/1/11/20	8/15/93/115	-
21	CLA	B	1212	-	1/1/11/20	6/15/93/115	-
21	CLA	B	1219	-	1/1/14/20	12/31/109/115	-
21	CLA	F	1301	-	1/1/11/20	2/13/91/115	-
21	CLA	B	1215	-	1/1/14/20	14/31/109/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	A	1142	-	1/1/11/20	6/13/89/115	-
21	CLA	J	6015	-	1/1/13/20	13/25/103/115	-
21	CLA	3	3011	-	1/1/11/20	10/15/93/115	-
21	CLA	3	3013	-	1/1/12/20	8/19/97/115	-
21	CLA	A	1109	-	1/1/15/20	16/37/115/115	-
19	BCR	B	6009	-	-	8/29/63/63	0/2/2/2
21	CLA	A	1125	-	1/1/13/20	11/25/103/115	-
21	CLA	A	1113	-	1/1/11/20	12/15/93/115	-
21	CLA	3	3008	-	1/1/15/20	26/37/115/115	-
21	CLA	B	1211	-	1/1/15/20	10/37/115/115	-
25	LMG	G	2021	-	-	11/16/36/70	0/1/1/1
21	CLA	B	1237	-	1/1/14/20	17/31/109/115	-
21	CLA	2	2014	-	1/1/11/20	6/13/91/115	-
21	CLA	2	2011	-	1/1/14/20	21/31/109/115	-
21	CLA	4	4004	-	1/1/15/20	18/37/115/115	-
21	CLA	1	1006	-	1/1/11/20	11/16/94/115	-
19	BCR	J	6012	-	-	20/29/63/63	0/2/2/2
21	CLA	4	4002	-	1/1/13/20	13/27/105/115	-
22	SF4	A	8001	-	-	-	0/6/5/5
21	CLA	2	2008	-	1/1/15/20	19/37/115/115	-
21	CLA	L	1501	12	1/1/11/20	8/15/93/115	-
21	CLA	A	1101	-	1/1/15/20	20/37/115/115	-
21	CLA	3	3003	-	1/1/14/20	14/31/109/115	-
21	CLA	B	1208	-	1/1/13/20	11/25/103/115	-
21	CLA	B	1227	-	1/1/15/20	17/37/115/115	-
21	CLA	1	1004	14	1/1/15/20	18/37/115/115	-
21	CLA	3	3004	-	1/1/11/20	7/13/91/115	-
21	CLA	4	4013	-	1/1/12/20	12/21/99/115	-
21	CLA	F	1303	-	1/1/14/20	21/35/113/115	-
26	LUT	1	1501	-	1/1/12/27	10/29/67/67	0/2/2/2
21	CLA	2	2004	15	1/1/13/20	15/31/105/115	-
21	CLA	B	1218	-	1/1/14/20	10/31/109/115	-
21	CLA	A	1103	-	1/1/15/20	23/37/115/115	-
21	CLA	A	9013	-	1/1/15/20	11/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	A	1118	-	1/1/11/20	6/15/93/115	-
21	CLA	B	1224	-	1/1/15/20	15/37/115/115	-
21	CLA	2	2002	-	1/1/14/20	12/31/109/115	-
21	CLA	3	3017	-	1/1/11/20	8/13/91/115	-
21	CLA	B	1220	-	1/1/15/20	18/37/115/115	-
21	CLA	1	1013	-	1/1/15/20	20/37/115/115	-
21	CLA	1	1014	-	1/1/11/20	9/13/91/115	-
20	LHG	B	7004	21	-	22/53/53/53	-
19	BCR	F	6016	-	-	11/29/63/63	0/2/2/2
21	CLA	F	1302	-	1/1/11/20	5/15/93/115	-
21	CLA	A	1135	-	-	5/21/99/115	-
22	SF4	C	8003	-	-	-	0/6/5/5
21	CLA	A	1143	-	1/1/11/20	8/13/91/115	-
24	DGD	B	7101	-	-	19/50/90/95	0/2/2/2
21	CLA	B	1204	-	1/1/13/20	11/25/103/115	-
21	CLA	B	9023	-	1/1/15/20	13/37/115/115	-
21	CLA	B	1231	-	1/1/11/20	5/15/93/115	-
21	CLA	G	1002	-	1/1/11/20	7/15/93/115	-
27	NEX	4	4503	-	-	15/27/83/83	0/3/3/3
21	CLA	4	4008	-	1/1/11/20	8/17/95/115	-
21	CLA	A	1134	1	1/1/11/20	6/15/93/115	-
21	CLA	4	4006	-	1/1/15/20	23/37/115/115	-
19	BCR	L	6019	-	-	9/29/63/63	0/2/2/2
21	CLA	1	1007	20	1/1/13/20	9/25/103/115	-
25	LMG	J	5001	-	-	16/30/50/70	0/1/1/1
21	CLA	4	4009	17	1/1/12/20	6/19/97/115	-
21	CLA	A	1130	-	1/1/11/20	6/15/93/115	-
20	LHG	2	2801	21	-	20/40/40/53	-
21	CLA	B	1203	2	1/1/14/20	10/31/109/115	-
21	CLA	A	1108	-	1/1/11/20	5/15/93/115	-
19	BCR	F	6014	-	-	12/29/63/63	0/2/2/2
21	CLA	B	1210	-	1/1/15/20	21/37/115/115	-
21	CLA	2	2001	15	1/1/5/20	-	-
21	CLA	4	4014	17	1/1/11/20	6/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	A	1133	-	1/1/11/20	4/15/93/115	-
21	CLA	A	1104	1	1/1/15/20	13/37/115/115	-
21	CLA	A	1111	-	1/1/14/20	16/31/109/115	-
21	CLA	A	1116	-	1/1/12/20	13/24/102/115	-
18	PQN	B	5002	-	-	13/23/43/43	0/2/2/2
19	BCR	I	6018	-	-	13/29/63/63	0/2/2/2
21	CLA	B	1234	-	1/1/14/20	11/31/109/115	-
21	CLA	L	1503	-	1/1/12/20	8/19/97/115	-
21	CLA	B	1226	-	1/1/15/20	16/37/115/115	-
21	CLA	A	1110	-	1/1/13/20	12/25/103/115	-
21	CLA	A	1129	-	1/1/12/20	9/19/97/115	-
21	CLA	A	1121	-	1/1/11/20	8/15/93/115	-
21	CLA	B	1239	-	1/1/15/20	20/37/115/115	-
21	CLA	1	1001	14	1/1/13/20	10/25/103/115	-
21	CLA	3	3001	-	1/1/15/20	16/37/115/115	-
21	CLA	B	1228	-	1/1/12/20	9/21/99/115	-
21	CLA	2	2007	20	1/1/13/20	7/25/103/115	-
21	CLA	A	1119	-	1/1/15/20	21/37/115/115	-
19	BCR	I	6020	-	-	11/29/63/63	0/2/2/2
19	BCR	B	6006	-	-	7/29/63/63	0/2/2/2
21	CLA	B	1222	-	1/1/15/20	15/37/115/115	-
21	CLA	2	2006	-	1/1/13/20	16/28/106/115	-
21	CLA	3	3002	-	1/1/13/20	8/25/103/115	-
19	BCR	A	6003	-	-	15/29/63/63	0/2/2/2
19	BCR	B	6005	-	-	15/29/63/63	0/2/2/2
21	CLA	B	1240	20	1/1/15/20	16/37/115/115	-
19	BCR	G	2011	-	-	16/29/63/63	0/2/2/2
21	CLA	B	1207	-	1/1/15/20	16/37/115/115	-
21	CLA	A	1140	-	1/1/15/20	13/37/115/115	-
21	CLA	B	1202	-	1/1/15/20	21/37/115/115	-
21	CLA	G	1001	-	1/1/13/20	13/25/103/115	-
21	CLA	B	1206	2	1/1/15/20	18/37/115/115	-
21	CLA	A	1105	-	1/1/12/20	11/21/99/115	-
26	LUT	1	1502	-	1/1/12/27	15/29/67/67	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	A	1115	-	1/1/13/20	9/27/105/115	-
21	CLA	1	1011	-	1/1/15/20	16/37/115/115	-
19	BCR	L	6020	-	-	11/29/63/63	0/2/2/2
20	LHG	A	7003	21	-	30/53/53/53	-
21	CLA	B	1235	-	1/1/15/20	14/37/115/115	-
21	CLA	B	1217	-	1/1/11/20	6/15/93/115	-
21	CLA	B	1238	-	1/1/15/20	13/37/115/115	-
21	CLA	J	1302	-	1/1/14/20	16/33/111/115	-
21	CLA	A	1128	-	1/1/15/20	12/37/115/115	-
20	LHG	1	1801	21	-	33/53/53/53	-
21	CLA	4	4011	-	1/1/15/20	20/37/115/115	-
21	CLA	2	2010	-	1/1/15/20	25/37/115/115	-
21	CLA	B	9010	-	1/1/15/20	17/37/115/115	-
21	CLA	3	3014	-	1/1/11/20	8/13/91/115	-
21	CLA	2	2003	-	1/1/15/20	17/37/115/115	-
28	G3P	4	4505	-	-	5/8/8/8	-
21	CLA	A	1127	-	1/1/15/20	15/37/115/115	-
21	CLA	4	4005	17	1/1/11/20	6/13/91/115	-
21	CLA	A	1137	-	1/1/13/20	9/25/103/115	-
21	CLA	A	1102	-	1/1/12/20	6/19/97/115	-
21	CLA	3	3010	-	1/1/12/20	11/22/100/115	-
20	LHG	A	7001	-	-	31/53/53/53	-
26	LUT	2	2502	-	1/1/12/27	2/29/67/67	0/2/2/2
26	LUT	2	2501	-	1/1/12/27	9/29/67/67	0/2/2/2
21	CLA	B	9022	-	1/1/15/20	7/37/115/115	-
26	LUT	4	4502	-	1/1/12/27	7/29/67/67	0/2/2/2
21	CLA	L	1502	-	1/1/15/20	17/37/115/115	-
21	CLA	B	1209	-	1/1/11/20	10/15/93/115	-
26	LUT	4	4501	-	1/1/12/27	10/29/67/67	0/2/2/2
21	CLA	B	1230	-	1/1/13/20	12/29/107/115	-
18	PQN	A	5001	-	-	9/23/43/43	0/2/2/2
19	BCR	A	6017	-	-	10/29/63/63	0/2/2/2
21	CLA	B	1214	-	1/1/13/20	12/30/108/115	-
21	CLA	4	4003	17	1/1/15/20	12/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	A	1120	-	1/1/11/20	4/15/93/115	-
21	CLA	1	1005	-	1/1/13/20	13/27/105/115	-
21	CLA	1	1003	14	1/1/15/20	15/37/115/115	-
21	CLA	1	1008	-	1/1/15/20	18/37/115/115	-
21	CLA	1	1012	14	1/1/12/20	8/19/97/115	-
21	CLA	A	1107	1	1/1/12/20	13/21/99/115	-
21	CLA	A	1124	-	1/1/13/20	10/25/103/115	-
21	CLA	2	2009	15	1/1/11/20	6/15/93/115	-
21	CLA	2	2005	-	1/1/15/20	20/37/115/115	-
21	CLA	A	1141	20	1/1/12/20	10/21/99/115	-
21	CLA	B	1223	-	1/1/15/20	16/37/115/115	-
21	CLA	B	1205	-	1/1/15/20	14/37/115/115	-
21	CLA	A	1138	-	1/1/15/20	12/37/115/115	-
22	SF4	C	8002	3	-	-	0/6/5/5
21	CLA	H	1000	8	1/1/11/20	8/15/93/115	-
21	CLA	3	3015	-	1/1/11/20	3/13/91/115	-
21	CLA	A	9012	-	1/1/15/20	6/37/115/115	-
21	CLA	1	1009	-	1/1/15/20	24/37/115/115	-
19	BCR	A	6002	-	-	11/29/63/63	0/2/2/2
21	CLA	A	1136	-	1/1/15/20	18/37/115/115	-
21	CLA	A	1139	-	1/1/15/20	14/37/115/115	-
19	BCR	B	6011	-	-	9/18/35/63	0/1/1/2
19	BCR	B	6010	-	-	12/29/63/63	0/2/2/2
21	CLA	B	1201	-	1/1/11/20	5/15/93/115	-
21	CLA	A	1126	-	1/1/15/20	16/37/115/115	-
21	CLA	B	1213	-	1/1/14/20	15/31/109/115	-
21	CLA	4	4007	-	1/1/15/20	16/37/115/115	-
21	CLA	4	4015	-	1/1/11/20	8/15/93/115	-
21	CLA	B	1221	-	1/1/12/20	4/24/102/115	-
21	CLA	1	1010	-	1/1/15/20	21/37/115/115	-
19	BCR	B	6004	-	-	14/29/63/63	0/2/2/2
21	CLA	3	3009	-	1/1/11/20	6/15/93/115	-
19	BCR	A	6008	-	-	12/29/63/63	0/2/2/2
21	CLA	1	1002	-	1/1/13/20	13/27/105/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
19	BCR	A	6011	-	-	14/29/63/63	0/2/2/2
21	CLA	3	3012	16,21	1/1/11/20	11/13/91/115	-
19	BCR	A	6007	-	-	8/29/63/63	0/2/2/2
21	CLA	4	4010	-	1/1/12/20	6/19/97/115	-
21	CLA	A	1131	-	1/1/15/20	11/37/115/115	-
21	CLA	B	1229	-	1/1/15/20	15/37/115/115	-
21	CLA	3	3006	-	1/1/15/20	16/37/115/115	-
19	BCR	J	6013	-	-	15/29/63/63	0/2/2/2

All (3188) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	2	2501	LUT	C24-C25	14.81	1.51	1.33
26	2	2502	LUT	C24-C25	14.41	1.51	1.33
26	1	1501	LUT	C24-C25	14.35	1.51	1.33
26	4	4501	LUT	C24-C25	13.64	1.50	1.33
26	1	1502	LUT	C24-C25	13.56	1.50	1.33
26	4	4502	LUT	C24-C25	13.52	1.50	1.33
21	A	1107	CLA	MG-NA	9.81	2.29	2.06
21	B	1221	CLA	MG-NA	9.64	2.29	2.06
21	3	3016	CLA	MG-NA	9.64	2.29	2.06
21	J	1302	CLA	MG-NA	9.64	2.29	2.06
21	A	1123	CLA	MG-NA	9.63	2.29	2.06
21	3	3004	CLA	MG-NA	9.63	2.29	2.06
21	B	1223	CLA	MG-NA	9.63	2.29	2.06
21	3	3006	CLA	MG-NA	9.61	2.29	2.06
21	3	3005	CLA	MG-NA	9.59	2.29	2.06
21	A	1115	CLA	MG-NA	9.59	2.29	2.06
21	A	1105	CLA	MG-NA	9.58	2.29	2.06
21	A	1143	CLA	MG-NA	9.58	2.29	2.06
21	H	1000	CLA	MG-NA	9.58	2.29	2.06
21	A	1134	CLA	MG-NA	9.58	2.29	2.06
21	A	1142	CLA	MG-NA	9.57	2.29	2.06
21	A	1113	CLA	MG-NA	9.56	2.29	2.06
21	3	3002	CLA	MG-NA	9.55	2.29	2.06
21	3	3015	CLA	MG-NA	9.55	2.29	2.06
21	A	1127	CLA	MG-NA	9.55	2.29	2.06
21	A	1120	CLA	MG-NA	9.55	2.29	2.06
21	3	3017	CLA	MG-NA	9.54	2.28	2.06
21	A	1126	CLA	MG-NA	9.54	2.28	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	J	6014	CLA	MG-NA	9.54	2.28	2.06
21	A	1122	CLA	MG-NA	9.53	2.28	2.06
21	A	1124	CLA	MG-NA	9.53	2.28	2.06
21	A	1112	CLA	MG-NA	9.53	2.28	2.06
21	F	1302	CLA	MG-NA	9.53	2.28	2.06
21	B	1229	CLA	MG-NA	9.52	2.28	2.06
21	B	1203	CLA	MG-NA	9.52	2.28	2.06
21	B	1225	CLA	MG-NA	9.52	2.28	2.06
21	A	1139	CLA	MG-NA	9.52	2.28	2.06
21	B	1218	CLA	MG-NA	9.52	2.28	2.06
21	F	1301	CLA	MG-NA	9.52	2.28	2.06
21	A	1102	CLA	MG-NA	9.52	2.28	2.06
21	B	1234	CLA	MG-NA	9.52	2.28	2.06
21	B	1209	CLA	MG-NA	9.52	2.28	2.06
21	A	1119	CLA	MG-NA	9.51	2.28	2.06
21	B	1208	CLA	MG-NA	9.51	2.28	2.06
21	B	1210	CLA	MG-NA	9.51	2.28	2.06
21	A	1140	CLA	MG-NA	9.50	2.28	2.06
21	B	1220	CLA	MG-NA	9.49	2.28	2.06
21	A	1116	CLA	MG-NA	9.49	2.28	2.06
21	A	1141	CLA	MG-NA	9.49	2.28	2.06
21	A	1114	CLA	MG-NA	9.49	2.28	2.06
21	A	1136	CLA	MG-NA	9.49	2.28	2.06
21	B	1201	CLA	MG-NA	9.49	2.28	2.06
21	A	1135	CLA	MG-NA	9.48	2.28	2.06
21	B	1215	CLA	MG-NA	9.47	2.28	2.06
21	B	1219	CLA	MG-NA	9.47	2.28	2.06
21	B	1202	CLA	MG-NA	9.47	2.28	2.06
21	B	1217	CLA	MG-NA	9.47	2.28	2.06
21	B	1204	CLA	MG-NA	9.47	2.28	2.06
21	A	1108	CLA	MG-NA	9.47	2.28	2.06
21	A	1104	CLA	MG-NA	9.46	2.28	2.06
21	B	1237	CLA	MG-NA	9.44	2.28	2.06
21	B	1212	CLA	MG-NA	9.44	2.28	2.06
21	A	1117	CLA	MG-NA	9.44	2.28	2.06
21	A	1118	CLA	MG-NA	9.43	2.28	2.06
21	B	1214	CLA	MG-NA	9.43	2.28	2.06
21	B	1238	CLA	MG-NA	9.43	2.28	2.06
21	B	1236	CLA	MG-NA	9.43	2.28	2.06
21	3	3001	CLA	MG-NA	9.42	2.28	2.06
21	A	1111	CLA	MG-NA	9.42	2.28	2.06
21	A	1137	CLA	MG-NA	9.42	2.28	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	3014	CLA	MG-NA	9.41	2.28	2.06
21	B	1231	CLA	MG-NA	9.40	2.28	2.06
21	B	1224	CLA	MG-NA	9.40	2.28	2.06
21	B	1216	CLA	MG-NA	9.40	2.28	2.06
21	A	1106	CLA	MG-NA	9.39	2.28	2.06
21	3	3003	CLA	MG-NA	9.39	2.28	2.06
21	A	1121	CLA	MG-NA	9.39	2.28	2.06
21	B	1211	CLA	MG-NA	9.39	2.28	2.06
21	A	1101	CLA	MG-NA	9.38	2.28	2.06
21	A	1138	CLA	MG-NA	9.36	2.28	2.06
21	B	1222	CLA	MG-NA	9.36	2.28	2.06
21	B	1205	CLA	MG-NA	9.36	2.28	2.06
21	A	1110	CLA	MG-NA	9.35	2.28	2.06
21	B	1207	CLA	MG-NA	9.35	2.28	2.06
21	B	1206	CLA	MG-NA	9.33	2.28	2.06
21	A	1109	CLA	MG-NA	9.32	2.28	2.06
21	B	1230	CLA	MG-NA	9.28	2.28	2.06
21	A	1103	CLA	MG-NA	9.28	2.28	2.06
21	B	1235	CLA	MG-NA	9.19	2.28	2.06
21	2	2006	CLA	MG-NA	9.05	2.27	2.06
21	L	1503	CLA	MG-NA	9.02	2.27	2.06
21	A	1129	CLA	MG-NA	8.99	2.27	2.06
21	L	1501	CLA	MG-NA	8.97	2.27	2.06
21	4	4001	CLA	MG-NA	8.95	2.27	2.06
21	L	1502	CLA	MG-NA	8.91	2.27	2.06
21	A	1130	CLA	MG-NA	8.89	2.27	2.06
21	A	1128	CLA	MG-NA	8.87	2.27	2.06
19	A	6003	BCR	C8-C9	-8.86	1.26	1.45
21	1	1004	CLA	MG-NA	8.83	2.27	2.06
21	J	6015	CLA	MG-NA	8.82	2.27	2.06
21	A	1132	CLA	MG-NA	8.77	2.27	2.06
19	B	6011	BCR	C8-C9	-8.75	1.27	1.45
19	G	2011	BCR	C8-C9	-8.73	1.27	1.45
21	4	4003	CLA	MG-NA	8.68	2.26	2.06
21	2	2004	CLA	MG-NA	8.62	2.26	2.06
21	1	1014	CLA	MG-NA	8.58	2.26	2.06
21	1	1006	CLA	MG-NA	8.55	2.26	2.06
21	4	4014	CLA	MG-NA	8.54	2.26	2.06
21	3	3011	CLA	MG-NA	8.52	2.26	2.06
21	A	9012	CLA	MG-NA	8.50	2.26	2.06
21	4	4008	CLA	MG-NA	8.50	2.26	2.06
21	4	4013	CLA	MG-NA	8.50	2.26	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	2010	CLA	MG-NA	8.49	2.26	2.06
21	A	1131	CLA	MG-NA	8.48	2.26	2.06
21	4	4007	CLA	MG-NA	8.48	2.26	2.06
21	3	3009	CLA	MG-NA	8.47	2.26	2.06
21	4	4015	CLA	MG-NA	8.47	2.26	2.06
21	3	3013	CLA	MG-NA	8.46	2.26	2.06
21	2	2008	CLA	MG-NA	8.46	2.26	2.06
21	B	1213	CLA	MG-NA	8.45	2.26	2.06
21	1	1007	CLA	MG-NA	8.45	2.26	2.06
21	2	2003	CLA	MG-NA	8.41	2.26	2.06
21	2	2014	CLA	MG-NA	8.40	2.26	2.06
21	B	9022	CLA	MG-NA	8.39	2.26	2.06
21	4	4005	CLA	MG-NA	8.37	2.26	2.06
19	A	6011	BCR	C8-C9	-8.36	1.28	1.45
21	1	1013	CLA	MG-NA	8.34	2.26	2.06
21	1	1010	CLA	MG-NA	8.33	2.26	2.06
21	1	1012	CLA	MG-NA	8.32	2.26	2.06
21	2	2009	CLA	MG-NA	8.31	2.26	2.06
23	A	9011	CL0	MG-NA	8.30	2.26	2.06
21	1	1002	CLA	MG-NA	8.29	2.26	2.06
21	4	4009	CLA	MG-NA	8.27	2.25	2.06
21	A	1133	CLA	MG-NA	8.27	2.25	2.06
19	A	6017	BCR	C8-C9	-8.26	1.28	1.45
19	F	6016	BCR	C8-C9	-8.26	1.28	1.45
19	I	6018	BCR	C8-C9	-8.26	1.28	1.45
21	1	1003	CLA	MG-NA	8.25	2.25	2.06
19	L	6019	BCR	C8-C9	-8.25	1.28	1.45
19	I	6020	BCR	C8-C9	-8.24	1.28	1.45
19	A	6002	BCR	C8-C9	-8.21	1.28	1.45
19	B	6009	BCR	C8-C9	-8.17	1.28	1.45
21	3	3012	CLA	MG-NA	8.16	2.25	2.06
21	2	2005	CLA	MG-NA	8.16	2.25	2.06
19	B	6004	BCR	C8-C9	-8.14	1.28	1.45
19	A	6002	BCR	C11-C10	-8.14	1.18	1.43
21	3	3008	CLA	MG-NA	8.13	2.25	2.06
19	F	6014	BCR	C8-C9	-8.13	1.28	1.45
21	3	3010	CLA	MG-NA	8.13	2.25	2.06
21	2	2007	CLA	MG-NA	8.13	2.25	2.06
21	2	2013	CLA	MG-NA	8.12	2.25	2.06
21	B	1240	CLA	MG-NA	8.12	2.25	2.06
21	A	1125	CLA	MG-NA	8.11	2.25	2.06
19	L	6019	BCR	C11-C10	-8.11	1.18	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	L	6020	BCR	C8-C9	-8.10	1.28	1.45
21	F	1303	CLA	MG-NA	8.10	2.25	2.06
19	A	6008	BCR	C8-C9	-8.10	1.28	1.45
19	B	6006	BCR	C8-C9	-8.09	1.28	1.45
19	G	2011	BCR	C11-C10	-8.09	1.18	1.43
21	A	9013	CLA	MG-NA	8.09	2.25	2.06
21	1	1005	CLA	MG-NA	8.08	2.25	2.06
19	A	6011	BCR	C11-C10	-8.07	1.18	1.43
19	A	6007	BCR	C8-C9	-8.07	1.28	1.45
19	B	6005	BCR	C8-C9	-8.06	1.28	1.45
19	B	6011	BCR	C11-C10	-8.06	1.18	1.43
19	J	6012	BCR	C8-C9	-8.05	1.28	1.45
19	L	6020	BCR	C11-C10	-8.05	1.18	1.43
21	1	1009	CLA	MG-NA	8.05	2.25	2.06
21	4	4011	CLA	MG-NA	8.05	2.25	2.06
19	I	6020	BCR	C11-C10	-8.05	1.18	1.43
19	B	6006	BCR	C11-C10	-8.03	1.18	1.43
21	1	1011	CLA	MG-NA	8.03	2.25	2.06
19	J	6013	BCR	C8-C9	-8.02	1.28	1.45
19	J	6013	BCR	C11-C10	-8.02	1.18	1.43
19	A	6003	BCR	C11-C10	-8.01	1.18	1.43
19	B	6004	BCR	C11-C10	-8.01	1.18	1.43
19	F	6016	BCR	C11-C10	-7.99	1.18	1.43
21	1	1001	CLA	MG-NA	7.99	2.25	2.06
19	B	6010	BCR	C8-C9	-7.98	1.28	1.45
19	B	6004	BCR	C10-C9	-7.98	1.25	1.35
21	G	1001	CLA	MG-NA	7.97	2.25	2.06
21	B	9023	CLA	MG-NA	7.97	2.25	2.06
21	2	2002	CLA	MG-NA	7.97	2.25	2.06
21	B	1227	CLA	MG-NA	7.96	2.25	2.06
19	A	6007	BCR	C11-C10	-7.93	1.18	1.43
21	B	9010	CLA	MG-NA	7.91	2.25	2.06
19	B	6005	BCR	C11-C10	-7.89	1.19	1.43
21	4	4010	CLA	MG-NA	7.88	2.25	2.06
21	B	1239	CLA	MG-NA	7.87	2.25	2.06
21	4	4004	CLA	MG-NA	7.87	2.25	2.06
21	2	2001	CLA	MG-NA	7.83	2.24	2.06
19	J	6012	BCR	C11-C10	-7.82	1.19	1.43
21	G	1002	CLA	MG-NA	7.79	2.24	2.06
21	4	4012	CLA	MG-NA	7.78	2.24	2.06
19	B	6010	BCR	C11-C10	-7.76	1.19	1.43
19	B	6011	BCR	C10-C9	-7.75	1.25	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	B	6009	BCR	C11-C10	-7.73	1.19	1.43
18	A	5001	PQN	C3-C2	7.72	1.49	1.35
19	L	6019	BCR	C10-C9	-7.70	1.25	1.35
19	F	6014	BCR	C11-C10	-7.70	1.19	1.43
19	A	6017	BCR	C11-C10	-7.69	1.19	1.43
19	G	2011	BCR	C16-C17	-7.65	1.19	1.43
21	2	2011	CLA	MG-NA	7.65	2.24	2.06
21	1	1008	CLA	MG-NA	7.65	2.24	2.06
19	A	6008	BCR	C11-C10	-7.65	1.19	1.43
18	B	5002	PQN	C3-C2	7.64	1.49	1.35
19	I	6018	BCR	C11-C10	-7.63	1.19	1.43
19	G	2011	BCR	C10-C9	-7.62	1.25	1.35
21	2	2012	CLA	MG-NA	7.61	2.24	2.06
19	F	6016	BCR	C10-C9	-7.60	1.25	1.35
19	G	2011	BCR	C20-C21	-7.58	1.20	1.43
19	A	6003	BCR	C10-C9	-7.55	1.25	1.35
19	L	6020	BCR	C10-C9	-7.53	1.25	1.35
19	A	6003	BCR	C20-C21	-7.51	1.20	1.43
19	A	6003	BCR	C16-C17	-7.47	1.20	1.43
19	B	6004	BCR	C20-C21	-7.45	1.20	1.43
19	J	6013	BCR	C20-C21	-7.44	1.20	1.43
21	B	1228	CLA	MG-NA	7.43	2.23	2.06
21	4	4002	CLA	MG-NA	7.43	2.23	2.06
19	A	6002	BCR	C10-C9	-7.43	1.25	1.35
19	I	6020	BCR	C20-C21	-7.42	1.20	1.43
19	L	6020	BCR	C20-C21	-7.42	1.20	1.43
19	I	6020	BCR	C10-C9	-7.41	1.26	1.35
19	A	6002	BCR	C20-C21	-7.41	1.20	1.43
19	J	6013	BCR	C16-C17	-7.39	1.20	1.43
19	B	6006	BCR	C20-C21	-7.38	1.20	1.43
21	B	1226	CLA	MG-NA	7.37	2.23	2.06
19	B	6009	BCR	C20-C21	-7.37	1.20	1.43
19	L	6019	BCR	C20-C21	-7.36	1.20	1.43
19	B	6004	BCR	C16-C17	-7.33	1.20	1.43
19	I	6020	BCR	C16-C17	-7.33	1.20	1.43
19	F	6016	BCR	C20-C21	-7.32	1.20	1.43
19	F	6016	BCR	C16-C17	-7.32	1.20	1.43
19	B	6006	BCR	C16-C17	-7.32	1.20	1.43
19	A	6011	BCR	C20-C21	-7.31	1.20	1.43
19	A	6007	BCR	C20-C21	-7.29	1.20	1.43
19	F	6014	BCR	C16-C17	-7.29	1.20	1.43
19	A	6002	BCR	C16-C17	-7.28	1.20	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	B	6011	BCR	C16-C17	-7.27	1.20	1.43
19	A	6008	BCR	C20-C21	-7.26	1.21	1.43
19	L	6020	BCR	C16-C17	-7.26	1.21	1.43
19	F	6014	BCR	C20-C21	-7.24	1.21	1.43
19	B	6010	BCR	C20-C21	-7.24	1.21	1.43
19	L	6019	BCR	C16-C17	-7.23	1.21	1.43
19	A	6017	BCR	C16-C17	-7.23	1.21	1.43
19	B	6006	BCR	C10-C9	-7.23	1.26	1.35
19	A	6011	BCR	C10-C9	-7.22	1.26	1.35
19	I	6018	BCR	C16-C17	-7.21	1.21	1.43
19	A	6008	BCR	C16-C17	-7.19	1.21	1.43
19	A	6007	BCR	C16-C17	-7.19	1.21	1.43
19	A	6007	BCR	C10-C9	-7.18	1.26	1.35
19	B	6005	BCR	C20-C21	-7.18	1.21	1.43
27	4	4503	NEX	C34-C33	-7.18	1.26	1.35
19	I	6018	BCR	C20-C21	-7.17	1.21	1.43
19	A	6011	BCR	C16-C17	-7.16	1.21	1.43
19	B	6005	BCR	C16-C17	-7.16	1.21	1.43
19	J	6012	BCR	C16-C17	-7.15	1.21	1.43
19	J	6013	BCR	C10-C9	-7.15	1.26	1.35
19	B	6010	BCR	C10-C9	-7.14	1.26	1.35
19	J	6012	BCR	C20-C21	-7.14	1.21	1.43
19	A	6017	BCR	C20-C21	-7.12	1.21	1.43
19	J	6012	BCR	C10-C9	-7.12	1.26	1.35
19	B	6009	BCR	C16-C17	-7.10	1.21	1.43
19	B	6010	BCR	C16-C17	-7.07	1.21	1.43
21	4	4006	CLA	MG-NA	7.02	2.23	2.06
27	4	4503	NEX	C7-C8	7.00	1.43	1.32
27	4	4503	NEX	C30-C29	-6.99	1.26	1.35
19	B	6005	BCR	C10-C9	-6.96	1.26	1.35
19	B	6009	BCR	C10-C9	-6.86	1.26	1.35
19	A	6017	BCR	C10-C9	-6.83	1.26	1.35
21	3	3009	CLA	O2A-C1	6.70	1.61	1.45
21	3	3011	CLA	O2A-C1	6.64	1.60	1.45
21	B	9022	CLA	C1D-ND	-6.63	1.29	1.37
19	F	6014	BCR	C10-C9	-6.59	1.27	1.35
21	G	1002	CLA	O2A-C1	6.51	1.60	1.45
21	B	1217	CLA	O2A-C1	6.50	1.60	1.45
21	L	1501	CLA	O2A-C1	6.49	1.60	1.45
21	A	1114	CLA	O2A-C1	6.48	1.60	1.45
21	2	2009	CLA	O2A-C1	6.48	1.60	1.45
21	A	1112	CLA	O2A-C1	6.48	1.60	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	H	1000	CLA	O2A-C1	6.47	1.60	1.45
21	F	1302	CLA	O2A-C1	6.47	1.60	1.45
21	B	1212	CLA	O2A-C1	6.46	1.60	1.45
21	B	1231	CLA	O2A-C1	6.45	1.60	1.45
27	4	4503	NEX	C14-C13	-6.45	1.27	1.35
21	A	1118	CLA	O2A-C1	6.44	1.60	1.45
21	A	1113	CLA	O2A-C1	6.44	1.60	1.45
21	A	1133	CLA	O2A-C1	6.43	1.60	1.45
21	A	1134	CLA	O2A-C1	6.43	1.60	1.45
21	A	1108	CLA	O2A-C1	6.43	1.60	1.45
21	A	1121	CLA	O2A-C1	6.43	1.60	1.45
21	A	1120	CLA	O2A-C1	6.42	1.60	1.45
21	B	1201	CLA	O2A-C1	6.42	1.60	1.45
21	A	1130	CLA	O2A-C1	6.41	1.60	1.45
21	B	1209	CLA	O2A-C1	6.41	1.60	1.45
21	2	2001	CLA	C4D-C3D	-6.29	1.33	1.46
27	4	4503	NEX	C35-C15	-6.18	1.19	1.36
27	4	4503	NEX	C31-C32	-6.15	1.18	1.34
19	I	6018	BCR	C10-C9	-6.08	1.27	1.35
21	2	2004	CLA	C4D-C3D	-5.98	1.33	1.45
21	A	9012	CLA	C1D-ND	-5.97	1.30	1.37
21	4	4015	CLA	O2A-C1	5.91	1.59	1.45
21	B	9010	CLA	C1D-ND	-5.83	1.30	1.37
19	A	6008	BCR	C10-C9	-5.83	1.28	1.35
21	B	9022	CLA	C3D-C4D	-5.82	1.31	1.44
21	2	2008	CLA	O2D-CGD	5.77	1.47	1.33
21	3	3011	CLA	CHC-C1C	5.74	1.49	1.35
21	4	4015	CLA	C3D-C4D	-5.71	1.31	1.44
21	A	9012	CLA	C3D-C4D	-5.69	1.31	1.44
21	B	1227	CLA	C1D-ND	-5.67	1.30	1.37
23	A	9011	CL0	C3D-C4D	-5.55	1.31	1.44
21	2	2011	CLA	O2A-C1	5.55	1.61	1.46
21	F	1303	CLA	C1D-ND	-5.54	1.31	1.37
21	F	1303	CLA	C3D-C4D	-5.49	1.31	1.44
21	2	2008	CLA	O2A-C1	5.48	1.61	1.46
21	1	1009	CLA	C3D-C4D	-5.48	1.31	1.44
21	B	9022	CLA	C1B-NB	-5.45	1.30	1.35
21	1	1009	CLA	C1D-ND	-5.45	1.31	1.37
21	4	4006	CLA	O2D-CGD	5.45	1.46	1.33
23	A	9011	CL0	C1B-NB	-5.45	1.30	1.35
21	2	2001	CLA	C2B-C1B	5.44	1.49	1.39
21	A	1107	CLA	CHC-C1C	5.43	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	4	4011	CLA	C3D-C4D	-5.43	1.31	1.44
21	A	1140	CLA	O2A-C1	5.42	1.61	1.46
21	3	3003	CLA	O2D-CGD	5.42	1.46	1.33
21	1	1013	CLA	O2A-C1	5.41	1.61	1.46
21	B	1239	CLA	C3D-C4D	-5.41	1.32	1.44
21	4	4009	CLA	C3D-C4D	-5.41	1.32	1.44
21	4	4012	CLA	C1D-ND	-5.40	1.31	1.37
21	A	1125	CLA	C3D-C4D	-5.40	1.32	1.44
21	4	4012	CLA	C3D-C4D	-5.40	1.32	1.44
21	B	1240	CLA	C1D-ND	-5.39	1.31	1.37
21	A	9013	CLA	C4B-NB	-5.39	1.30	1.35
21	1	1007	CLA	CHC-C1C	5.39	1.48	1.35
21	3	3003	CLA	CHC-C1C	5.38	1.48	1.35
21	A	1130	CLA	CHC-C1C	5.38	1.48	1.35
21	B	1228	CLA	C3D-C4D	-5.38	1.32	1.44
21	4	4014	CLA	CHC-C1C	5.37	1.48	1.35
23	A	9011	CL0	C1D-ND	-5.36	1.31	1.37
21	2	2010	CLA	O2D-CGD	5.35	1.46	1.33
21	3	3005	CLA	CHC-C1C	5.34	1.48	1.35
21	A	1126	CLA	CHC-C1C	5.34	1.48	1.35
21	A	1115	CLA	CHC-C1C	5.34	1.48	1.35
21	2	2010	CLA	C3D-C4D	-5.34	1.32	1.44
21	A	1112	CLA	CHC-C1C	5.34	1.48	1.35
21	1	1002	CLA	C3D-C4D	-5.33	1.32	1.44
21	L	1502	CLA	CHC-C1C	5.33	1.48	1.35
21	A	1128	CLA	CHC-C1C	5.33	1.48	1.35
21	A	1141	CLA	CHC-C1C	5.33	1.48	1.35
21	A	1129	CLA	CHC-C1C	5.32	1.48	1.35
21	A	1111	CLA	O2A-C1	5.32	1.61	1.46
21	3	3009	CLA	O2D-CGD	5.31	1.46	1.33
21	A	1116	CLA	CHC-C1C	5.31	1.48	1.35
21	4	4015	CLA	CHC-C1C	5.31	1.48	1.35
21	A	1105	CLA	CHC-C1C	5.30	1.48	1.35
21	A	1102	CLA	CHC-C1C	5.30	1.48	1.35
21	B	1228	CLA	O2A-C1	5.30	1.61	1.46
21	B	1222	CLA	CHC-C1C	5.30	1.48	1.35
21	J	6014	CLA	O2A-C1	5.30	1.61	1.46
21	1	1012	CLA	C3D-C4D	-5.30	1.32	1.44
21	B	1214	CLA	CHC-C1C	5.30	1.48	1.35
21	A	1138	CLA	CHC-C1C	5.29	1.48	1.35
21	1	1013	CLA	CHC-C1C	5.29	1.48	1.35
21	A	1122	CLA	CHC-C1C	5.29	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1203	CLA	CHC-C1C	5.29	1.48	1.35
21	1	1008	CLA	O2A-C1	5.29	1.61	1.46
21	B	9023	CLA	C1D-ND	-5.29	1.31	1.37
21	B	1235	CLA	CHC-C1C	5.29	1.48	1.35
21	B	1240	CLA	C3D-C4D	-5.29	1.32	1.44
21	B	1220	CLA	CHC-C1C	5.29	1.48	1.35
21	3	3002	CLA	O2A-C1	5.29	1.61	1.46
21	B	1208	CLA	CHC-C1C	5.29	1.48	1.35
21	B	1238	CLA	CHC-C1C	5.27	1.48	1.35
21	L	1501	CLA	CHC-C1C	5.27	1.48	1.35
21	1	1008	CLA	C3D-C4D	-5.27	1.32	1.44
21	B	1211	CLA	CHC-C1C	5.27	1.48	1.35
21	B	1238	CLA	O2A-C1	5.27	1.61	1.46
21	B	1210	CLA	CHC-C1C	5.26	1.48	1.35
21	B	1201	CLA	CHC-C1C	5.26	1.48	1.35
21	B	1204	CLA	CHC-C1C	5.26	1.48	1.35
21	B	1202	CLA	CHC-C1C	5.26	1.48	1.35
21	A	1136	CLA	CHC-C1C	5.26	1.48	1.35
21	A	1107	CLA	O2A-C1	5.26	1.61	1.46
21	B	1239	CLA	C4B-NB	-5.26	1.30	1.35
21	J	6015	CLA	O2A-C1	5.25	1.60	1.46
21	B	1224	CLA	CHC-C1C	5.25	1.48	1.35
21	2	2008	CLA	CHC-C1C	5.25	1.48	1.35
21	B	1234	CLA	CHC-C1C	5.25	1.48	1.35
21	A	1106	CLA	CHC-C1C	5.25	1.48	1.35
21	B	1226	CLA	C1C-NC	-5.25	1.30	1.37
21	A	1101	CLA	CHC-C1C	5.25	1.48	1.35
21	A	1138	CLA	O2D-CGD	5.24	1.46	1.33
21	B	1226	CLA	C3D-C4D	-5.24	1.32	1.44
21	B	1225	CLA	O2D-CGD	5.24	1.46	1.33
21	A	1103	CLA	CHC-C1C	5.24	1.48	1.35
21	A	1127	CLA	CHC-C1C	5.24	1.48	1.35
21	B	1204	CLA	O2D-CGD	5.24	1.46	1.33
21	B	1230	CLA	CHC-C1C	5.24	1.48	1.35
21	A	1140	CLA	CHC-C1C	5.24	1.48	1.35
21	B	1219	CLA	CHC-C1C	5.24	1.48	1.35
21	A	1109	CLA	O2D-CGD	5.24	1.46	1.33
21	B	1218	CLA	CHC-C1C	5.23	1.48	1.35
21	A	1117	CLA	CHC-C1C	5.23	1.48	1.35
21	J	6014	CLA	CHC-C1C	5.23	1.48	1.35
21	3	3006	CLA	CHC-C1C	5.23	1.48	1.35
21	A	1108	CLA	O2D-CGD	5.23	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	3016	CLA	O2D-CGD	5.23	1.46	1.33
27	4	4503	NEX	C10-C9	-5.23	1.28	1.35
21	B	1236	CLA	CHC-C1C	5.23	1.48	1.35
21	F	1302	CLA	CHC-C1C	5.23	1.48	1.35
21	3	3008	CLA	O2A-C1	5.22	1.60	1.46
21	A	1108	CLA	CHC-C1C	5.22	1.48	1.35
21	4	4010	CLA	O2A-C1	5.22	1.60	1.46
21	A	1117	CLA	O2D-CGD	5.22	1.45	1.33
21	3	3004	CLA	CHC-C1C	5.22	1.48	1.35
21	A	1140	CLA	O2D-CGD	5.22	1.45	1.33
21	A	1132	CLA	CHC-C1C	5.22	1.48	1.35
21	L	1503	CLA	CHC-C1C	5.22	1.48	1.35
21	A	1115	CLA	O2D-CGD	5.22	1.45	1.33
21	3	3002	CLA	O2D-CGD	5.22	1.45	1.33
21	3	3005	CLA	O2D-CGD	5.22	1.45	1.33
21	A	1119	CLA	CHC-C1C	5.22	1.48	1.35
21	A	1143	CLA	CHC-C1C	5.22	1.48	1.35
21	A	1141	CLA	O2D-CGD	5.21	1.45	1.33
21	3	3015	CLA	O2D-CGD	5.21	1.45	1.33
21	3	3015	CLA	CHC-C1C	5.21	1.48	1.35
21	J	1302	CLA	O2D-CGD	5.21	1.45	1.33
21	A	1124	CLA	CHC-C1C	5.21	1.48	1.35
21	3	3010	CLA	O2A-C1	5.21	1.60	1.46
21	A	1114	CLA	CHC-C1C	5.21	1.48	1.35
21	A	1103	CLA	O2D-CGD	5.21	1.45	1.33
21	A	1123	CLA	CHC-C1C	5.21	1.48	1.35
21	4	4014	CLA	C3D-C4D	-5.20	1.32	1.44
21	A	1110	CLA	O2D-CGD	5.20	1.45	1.33
21	A	1142	CLA	O2D-CGD	5.20	1.45	1.33
21	B	1209	CLA	CHC-C1C	5.20	1.48	1.35
21	A	1143	CLA	O2D-CGD	5.20	1.45	1.33
21	B	1229	CLA	CHC-C1C	5.20	1.48	1.35
21	2	2011	CLA	C3D-C4D	-5.20	1.32	1.44
21	3	3006	CLA	O2D-CGD	5.20	1.45	1.33
21	4	4008	CLA	C1D-ND	-5.20	1.31	1.37
21	A	1114	CLA	O2D-CGD	5.20	1.45	1.33
21	B	1210	CLA	O2D-CGD	5.20	1.45	1.33
21	B	1215	CLA	O2D-CGD	5.20	1.45	1.33
21	A	1120	CLA	CHC-C1C	5.20	1.48	1.35
21	B	1216	CLA	O2D-CGD	5.19	1.45	1.33
21	3	3016	CLA	CHC-C1C	5.19	1.48	1.35
21	B	1225	CLA	O2A-C1	5.19	1.60	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1211	CLA	O2A-C1	5.19	1.60	1.46
21	B	1215	CLA	O2A-C1	5.19	1.60	1.46
21	B	1212	CLA	CHC-C1C	5.19	1.48	1.35
21	B	1238	CLA	O2D-CGD	5.19	1.45	1.33
21	A	1136	CLA	O2D-CGD	5.19	1.45	1.33
21	B	1223	CLA	C3B-C2B	5.19	1.47	1.40
21	B	1225	CLA	CHC-C1C	5.19	1.48	1.35
21	A	1117	CLA	O2A-C1	5.19	1.60	1.46
21	H	1000	CLA	O2D-CGD	5.19	1.45	1.33
21	3	3010	CLA	O2D-CGD	5.19	1.45	1.33
21	A	1142	CLA	CHC-C1C	5.19	1.48	1.35
21	B	1210	CLA	C3B-C2B	5.19	1.47	1.40
21	F	1302	CLA	O2D-CGD	5.18	1.45	1.33
21	J	1302	CLA	CHC-C1C	5.18	1.48	1.35
21	1	1014	CLA	O2D-CGD	5.18	1.45	1.33
21	3	3014	CLA	O2D-CGD	5.18	1.45	1.33
21	B	1206	CLA	O2D-CGD	5.18	1.45	1.33
21	3	3002	CLA	CHC-C1C	5.18	1.48	1.35
21	B	1224	CLA	O2D-CGD	5.18	1.45	1.33
21	A	1121	CLA	CHC-C1C	5.18	1.48	1.35
21	A	1105	CLA	O2D-CGD	5.18	1.45	1.33
21	J	1302	CLA	O2A-C1	5.18	1.60	1.46
21	A	1104	CLA	CHC-C1C	5.18	1.48	1.35
21	B	1205	CLA	CHC-C1C	5.18	1.48	1.35
21	A	1139	CLA	O2D-CGD	5.17	1.45	1.33
21	B	1237	CLA	O2D-CGD	5.17	1.45	1.33
21	A	1109	CLA	O2A-C1	5.17	1.60	1.46
21	B	1234	CLA	O2D-CGD	5.17	1.45	1.33
21	A	1127	CLA	O2D-CGD	5.17	1.45	1.33
21	B	1202	CLA	O2D-CGD	5.17	1.45	1.33
21	F	1301	CLA	O2D-CGD	5.17	1.45	1.33
21	A	1120	CLA	O2D-CGD	5.17	1.45	1.33
21	A	1111	CLA	CHC-C1C	5.16	1.48	1.35
21	3	3017	CLA	CHC-C1C	5.16	1.48	1.35
21	B	1207	CLA	O2D-CGD	5.16	1.45	1.33
21	B	1223	CLA	O2D-CGD	5.16	1.45	1.33
21	B	1237	CLA	CHC-C1C	5.16	1.48	1.35
21	B	1208	CLA	O2A-C1	5.16	1.60	1.46
21	B	1235	CLA	O2A-C1	5.16	1.60	1.46
21	4	4011	CLA	C1D-ND	-5.16	1.31	1.37
21	A	1106	CLA	O2D-CGD	5.16	1.45	1.33
21	4	4001	CLA	C1D-ND	-5.16	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	J	6014	CLA	O2D-CGD	5.16	1.45	1.33
21	G	1001	CLA	C3D-C4D	-5.16	1.32	1.44
21	A	1139	CLA	CHC-C1C	5.15	1.48	1.35
21	A	1126	CLA	O2D-CGD	5.15	1.45	1.33
21	1	1005	CLA	C3D-C4D	-5.15	1.32	1.44
21	A	1113	CLA	CHC-C1C	5.15	1.48	1.35
21	B	1215	CLA	CHC-C1C	5.15	1.48	1.35
21	B	1227	CLA	C3D-C4D	-5.15	1.32	1.44
21	B	1220	CLA	O2D-CGD	5.15	1.45	1.33
21	A	1116	CLA	O2D-CGD	5.15	1.45	1.33
21	B	1208	CLA	O2D-CGD	5.15	1.45	1.33
21	B	1205	CLA	O2A-C1	5.15	1.60	1.46
21	B	1217	CLA	O2D-CGD	5.15	1.45	1.33
21	A	1135	CLA	O2D-CGD	5.15	1.45	1.33
21	2	2005	CLA	C3D-C4D	-5.15	1.32	1.44
21	A	1112	CLA	O2D-CGD	5.15	1.45	1.33
21	A	1134	CLA	CHC-C1C	5.15	1.48	1.35
21	4	4005	CLA	C3D-C4D	-5.14	1.32	1.44
21	A	1135	CLA	CHC-C1C	5.14	1.48	1.35
21	B	1204	CLA	O2A-C1	5.14	1.60	1.46
21	A	1137	CLA	CHC-C1C	5.14	1.48	1.35
21	B	1212	CLA	O2D-CGD	5.14	1.45	1.33
21	1	1006	CLA	O2D-CGD	5.14	1.45	1.33
21	4	4008	CLA	C3D-C4D	-5.14	1.32	1.44
21	3	3001	CLA	CHC-C1C	5.14	1.48	1.35
21	B	1224	CLA	O2A-C1	5.14	1.60	1.46
21	B	1237	CLA	O2A-C1	5.14	1.60	1.46
21	A	1139	CLA	O2A-C1	5.14	1.60	1.46
21	B	1231	CLA	O2D-CGD	5.14	1.45	1.33
21	3	3003	CLA	O2A-C1	5.13	1.60	1.46
21	B	1203	CLA	O2D-CGD	5.13	1.45	1.33
21	A	1137	CLA	O2D-CGD	5.13	1.45	1.33
21	A	1109	CLA	CHC-C1C	5.13	1.48	1.35
21	B	1219	CLA	O2D-CGD	5.13	1.45	1.33
21	A	1104	CLA	O2D-CGD	5.13	1.45	1.33
21	B	1211	CLA	O2D-CGD	5.13	1.45	1.33
21	B	1231	CLA	CHC-C1C	5.13	1.48	1.35
21	A	1121	CLA	O2D-CGD	5.13	1.45	1.33
21	B	1217	CLA	CHC-C1C	5.13	1.48	1.35
21	B	1201	CLA	O2D-CGD	5.13	1.45	1.33
21	A	1134	CLA	O2D-CGD	5.13	1.45	1.33
21	L	1503	CLA	O2A-C1	5.13	1.60	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1216	CLA	CHC-C1C	5.13	1.48	1.35
21	A	1106	CLA	C3B-C2B	5.12	1.47	1.40
21	B	1230	CLA	O2D-CGD	5.12	1.45	1.33
21	B	1206	CLA	O2A-C1	5.12	1.60	1.46
21	1	1001	CLA	C3D-C4D	-5.12	1.32	1.44
21	2	2006	CLA	O2D-CGD	5.12	1.45	1.33
21	4	4012	CLA	O2A-C1	5.12	1.60	1.46
21	B	1235	CLA	O2D-CGD	5.12	1.45	1.33
21	A	1106	CLA	O2A-C1	5.12	1.60	1.46
21	A	1124	CLA	O2D-CGD	5.11	1.45	1.33
21	4	4013	CLA	C3D-C4D	-5.11	1.32	1.44
21	A	1111	CLA	O2D-CGD	5.11	1.45	1.33
21	B	1221	CLA	CHC-C1C	5.11	1.48	1.35
21	4	4010	CLA	C3D-C4D	-5.11	1.32	1.44
21	A	1137	CLA	O2A-C1	5.11	1.60	1.46
21	3	3012	CLA	O2D-CGD	5.11	1.45	1.33
21	B	1203	CLA	O2A-C1	5.11	1.60	1.46
21	A	1123	CLA	O2A-C1	5.11	1.60	1.46
21	A	1119	CLA	O2D-CGD	5.10	1.45	1.33
21	B	1223	CLA	CHC-C1C	5.10	1.48	1.35
21	A	1122	CLA	O2D-CGD	5.10	1.45	1.33
21	B	1226	CLA	O2A-C1	5.10	1.60	1.46
21	B	1205	CLA	O2D-CGD	5.10	1.45	1.33
21	B	1228	CLA	C1D-ND	-5.10	1.31	1.37
21	B	1221	CLA	O2A-C1	5.10	1.60	1.46
21	A	1123	CLA	O2D-CGD	5.10	1.45	1.33
21	A	1118	CLA	O2D-CGD	5.10	1.45	1.33
21	A	1107	CLA	O2D-CGD	5.10	1.45	1.33
21	3	3017	CLA	O2D-CGD	5.10	1.45	1.33
21	F	1301	CLA	CHC-C1C	5.10	1.48	1.35
21	2	2003	CLA	C3C-C2C	5.10	1.47	1.36
21	2	2010	CLA	CHC-C1C	5.10	1.48	1.35
21	A	1135	CLA	O2A-C1	5.10	1.60	1.46
21	2	2010	CLA	O2A-C1	5.09	1.60	1.46
21	A	1119	CLA	O2A-C1	5.09	1.60	1.46
21	3	3001	CLA	O2A-C1	5.09	1.60	1.46
21	A	1124	CLA	O2A-C1	5.09	1.60	1.46
21	B	1214	CLA	O2D-CGD	5.09	1.45	1.33
21	B	1210	CLA	O2A-C1	5.09	1.60	1.46
21	A	1110	CLA	CHC-C1C	5.09	1.48	1.35
21	B	1229	CLA	O2D-CGD	5.09	1.45	1.33
21	1	1001	CLA	O2A-C1	5.09	1.60	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1210	CLA	C3C-C2C	5.09	1.47	1.36
21	1	1011	CLA	O2A-C1	5.08	1.60	1.46
21	2	2005	CLA	O2A-C1	5.08	1.60	1.46
21	A	1138	CLA	O2A-C1	5.08	1.60	1.46
21	A	1102	CLA	O2A-C1	5.08	1.60	1.46
21	A	1122	CLA	O2A-C1	5.08	1.60	1.46
21	4	4007	CLA	O2D-CGD	5.08	1.45	1.33
21	B	1223	CLA	O2A-C1	5.08	1.60	1.46
21	A	1113	CLA	O2D-CGD	5.07	1.45	1.33
21	B	1207	CLA	O2A-C1	5.07	1.60	1.46
21	3	3006	CLA	O2A-C1	5.07	1.60	1.46
21	1	1007	CLA	C3D-C4D	-5.07	1.32	1.44
21	A	1115	CLA	O2A-C1	5.07	1.60	1.46
21	1	1008	CLA	C1D-ND	-5.07	1.31	1.37
21	B	1229	CLA	O2A-C1	5.07	1.60	1.46
21	B	1216	CLA	O2A-C1	5.07	1.60	1.46
21	2	2012	CLA	O2A-C1	5.07	1.60	1.46
21	3	3001	CLA	O2D-CGD	5.07	1.45	1.33
21	A	1105	CLA	O2A-C1	5.07	1.60	1.46
21	A	1129	CLA	O2A-C1	5.06	1.60	1.46
21	B	1220	CLA	O2A-C1	5.06	1.60	1.46
21	B	1222	CLA	O2A-C1	5.06	1.60	1.46
21	B	1236	CLA	O2D-CGD	5.06	1.45	1.33
21	B	1234	CLA	O2A-C1	5.06	1.60	1.46
21	B	1219	CLA	O2A-C1	5.06	1.60	1.46
21	A	1128	CLA	O2A-C1	5.06	1.60	1.46
18	A	5001	PQN	C10-C5	5.05	1.49	1.40
21	B	1236	CLA	O2A-C1	5.05	1.60	1.46
21	4	4007	CLA	CHD-C1D	5.05	1.48	1.38
21	A	1133	CLA	CHC-C1C	5.05	1.47	1.35
21	B	1226	CLA	C4B-NB	-5.05	1.30	1.35
21	1	1004	CLA	C3D-C4D	-5.05	1.32	1.44
21	A	1103	CLA	O2A-C1	5.05	1.60	1.46
21	A	1114	CLA	C3B-C2B	5.04	1.47	1.40
21	A	1101	CLA	O2A-C1	5.04	1.60	1.46
21	B	1209	CLA	O2D-CGD	5.04	1.45	1.33
21	3	3014	CLA	CHC-C1C	5.04	1.47	1.35
21	B	1221	CLA	C3B-C2B	5.04	1.47	1.40
21	2	2002	CLA	O2A-C1	5.04	1.60	1.46
21	B	1221	CLA	O2D-CGD	5.04	1.45	1.33
21	B	1207	CLA	CHC-C1C	5.03	1.47	1.35
21	A	1116	CLA	O2A-C1	5.03	1.60	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1202	CLA	O2A-C1	5.03	1.60	1.46
21	B	1230	CLA	O2A-C1	5.03	1.60	1.46
21	A	1101	CLA	O2D-CGD	5.03	1.45	1.33
21	1	1001	CLA	O2D-CGD	5.03	1.45	1.33
21	2	2013	CLA	C3D-C4D	-5.03	1.32	1.44
21	B	1214	CLA	C3B-C2B	5.03	1.47	1.40
21	L	1502	CLA	O2A-C1	5.03	1.60	1.46
21	A	1125	CLA	C1D-ND	-5.03	1.31	1.37
21	B	1214	CLA	O2A-C1	5.02	1.60	1.46
21	4	4006	CLA	CHC-C1C	5.02	1.47	1.35
21	A	9012	CLA	CHC-C1C	5.01	1.47	1.35
21	A	1102	CLA	O2D-CGD	5.01	1.45	1.33
21	4	4004	CLA	C3D-C4D	-5.01	1.32	1.44
21	A	1127	CLA	O2A-C1	5.01	1.60	1.46
21	B	1218	CLA	O2A-C1	5.01	1.60	1.46
21	A	1141	CLA	O2A-C1	5.01	1.60	1.46
21	B	1229	CLA	C3B-C2B	5.01	1.47	1.40
21	A	1104	CLA	O2A-C1	5.01	1.60	1.46
21	L	1503	CLA	O2D-CGD	5.01	1.45	1.33
21	B	1213	CLA	CHC-C1C	5.01	1.47	1.35
21	1	1010	CLA	CHC-C1C	5.01	1.47	1.35
21	3	3004	CLA	O2D-CGD	5.01	1.45	1.33
21	B	9023	CLA	C4B-NB	-5.01	1.30	1.35
21	B	1239	CLA	C1D-ND	-5.00	1.31	1.37
21	1	1010	CLA	O2D-CGD	5.00	1.45	1.33
21	4	4001	CLA	O2A-C1	5.00	1.60	1.46
21	A	9013	CLA	C1C-NC	-5.00	1.30	1.37
21	1	1003	CLA	C3D-C4D	-4.99	1.32	1.44
21	1	1011	CLA	C3D-C4D	-4.99	1.32	1.44
21	4	4001	CLA	C3D-C4D	-4.99	1.32	1.44
21	3	3009	CLA	CHC-C1C	4.99	1.47	1.35
18	B	5002	PQN	C10-C5	4.99	1.49	1.40
21	B	1222	CLA	C3B-C2B	4.98	1.47	1.40
21	2	2002	CLA	C3D-C4D	-4.98	1.32	1.44
21	A	1136	CLA	O2A-C1	4.98	1.60	1.46
21	A	1129	CLA	O2D-CGD	4.97	1.45	1.33
21	A	1123	CLA	C3B-C2B	4.97	1.47	1.40
21	4	4014	CLA	CHD-C1D	4.96	1.48	1.38
21	L	1502	CLA	O2D-CGD	4.96	1.45	1.33
21	4	4002	CLA	C3D-C4D	-4.95	1.33	1.44
21	4	4003	CLA	CHC-C1C	4.95	1.47	1.35
21	2	2009	CLA	CHC-C1C	4.95	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	2005	CLA	O2D-CGD	4.94	1.45	1.33
21	H	1000	CLA	CHC-C1C	4.94	1.47	1.35
21	4	4004	CLA	C1D-ND	-4.94	1.31	1.37
21	4	4007	CLA	O2A-C1	4.94	1.60	1.46
21	B	9010	CLA	C3D-C4D	-4.94	1.33	1.44
21	A	1110	CLA	O2A-C1	4.94	1.60	1.46
21	1	1012	CLA	CHC-C1C	4.94	1.47	1.35
21	1	1002	CLA	O2A-C1	4.94	1.60	1.46
21	2	2004	CLA	O2A-C1	4.93	1.60	1.46
21	2	2012	CLA	C3D-C4D	-4.93	1.33	1.44
21	4	4010	CLA	C1D-ND	-4.93	1.31	1.37
21	4	4008	CLA	O2A-C1	4.93	1.60	1.46
21	2	2007	CLA	C3D-C4D	-4.93	1.33	1.44
21	4	4006	CLA	O2A-C1	4.93	1.60	1.46
21	A	1125	CLA	CHC-C1C	4.93	1.47	1.35
21	4	4014	CLA	O2D-CGD	4.93	1.45	1.33
21	2	2002	CLA	CHC-C1C	4.92	1.47	1.35
21	A	1130	CLA	O2D-CGD	4.92	1.45	1.33
21	2	2009	CLA	O2D-CGD	4.92	1.45	1.33
21	B	1226	CLA	C1D-ND	-4.92	1.31	1.37
21	B	1239	CLA	O2A-C1	4.92	1.60	1.46
21	4	4009	CLA	CHC-C1C	4.92	1.47	1.35
23	A	9011	CL0	C4B-NB	-4.92	1.30	1.35
21	B	1202	CLA	C3B-C2B	4.92	1.47	1.40
21	B	1222	CLA	O2D-CGD	4.92	1.45	1.33
21	A	1101	CLA	C3B-C2B	4.91	1.47	1.40
21	1	1012	CLA	O2A-C1	4.91	1.60	1.46
21	L	1501	CLA	O2D-CGD	4.91	1.45	1.33
21	A	1126	CLA	O2A-C1	4.91	1.60	1.46
21	2	2001	CLA	C3C-C2C	4.91	1.46	1.35
21	B	9023	CLA	C3D-C4D	-4.91	1.33	1.44
21	1	1008	CLA	CHC-C1C	4.90	1.47	1.35
21	2	2006	CLA	CHC-C1C	4.90	1.47	1.35
21	1	1005	CLA	CHC-C1C	4.90	1.47	1.35
21	J	6015	CLA	CHD-C1D	4.89	1.47	1.38
21	1	1004	CLA	O2A-C1	4.89	1.59	1.46
21	B	1213	CLA	C3D-C4D	-4.89	1.33	1.44
21	1	1002	CLA	C1D-ND	-4.89	1.31	1.37
21	A	1118	CLA	CHC-C1C	4.88	1.47	1.35
21	4	4013	CLA	O2A-C1	4.88	1.59	1.46
21	4	4003	CLA	O2A-C1	4.88	1.59	1.46
21	4	4007	CLA	CHC-C1C	4.88	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	2013	CLA	O2A-C1	4.87	1.59	1.46
21	B	1213	CLA	O2A-C1	4.87	1.59	1.46
21	2	2012	CLA	CHC-C1C	4.87	1.47	1.35
21	1	1014	CLA	CHC-C1C	4.87	1.47	1.35
21	A	1107	CLA	C3B-C2B	4.86	1.47	1.40
21	J	1302	CLA	CHD-C1D	4.86	1.47	1.38
21	A	1131	CLA	C3D-C4D	-4.86	1.33	1.44
21	4	4001	CLA	CHC-C1C	4.86	1.47	1.35
21	A	1128	CLA	O2D-CGD	4.86	1.45	1.33
21	1	1004	CLA	CHC-C1C	4.86	1.47	1.35
21	A	1117	CLA	C3B-C2B	4.86	1.47	1.40
21	2	2003	CLA	C3D-C4D	-4.86	1.33	1.44
21	1	1002	CLA	CHC-C1C	4.86	1.47	1.35
21	2	2003	CLA	O2A-C1	4.86	1.59	1.46
23	A	9011	CL0	C1C-NC	-4.85	1.30	1.37
21	A	1124	CLA	C3B-C2B	4.85	1.47	1.40
21	B	1227	CLA	O2A-C1	4.85	1.59	1.46
21	3	3013	CLA	O2A-C1	4.85	1.59	1.46
21	2	2003	CLA	O2D-CGD	4.85	1.45	1.33
21	2	2008	CLA	C3D-C4D	-4.85	1.33	1.44
21	3	3010	CLA	CHC-C1C	4.84	1.47	1.35
21	F	1303	CLA	O2A-C1	4.84	1.59	1.42
21	B	1206	CLA	CHC-C1C	4.84	1.47	1.35
21	B	1218	CLA	O2D-CGD	4.84	1.45	1.33
21	1	1005	CLA	O2A-C1	4.83	1.59	1.46
21	A	1122	CLA	CHD-C1D	4.82	1.47	1.38
21	G	1001	CLA	O2A-C1	4.82	1.59	1.46
21	G	1002	CLA	CHC-C1C	4.82	1.47	1.35
21	B	1211	CLA	C3B-C2B	4.82	1.47	1.40
21	G	1002	CLA	C3D-C4D	-4.81	1.33	1.44
27	4	4503	NEX	C11-C12	-4.81	1.22	1.34
21	A	9013	CLA	C3D-C4D	-4.80	1.33	1.44
21	2	2006	CLA	O2A-C1	4.79	1.59	1.46
21	2	2004	CLA	CHC-C1C	4.79	1.47	1.35
21	3	3013	CLA	C3B-C2B	4.79	1.47	1.40
21	2	2013	CLA	CHC-C1C	4.79	1.47	1.35
21	4	4005	CLA	C3B-C2B	4.78	1.47	1.40
21	1	1009	CLA	C4B-NB	-4.78	1.30	1.35
21	A	1110	CLA	CHD-C1D	4.78	1.47	1.38
21	A	1125	CLA	O2A-C1	4.78	1.59	1.46
21	J	6015	CLA	C3D-C4D	-4.78	1.33	1.44
21	4	4015	CLA	C1D-ND	-4.78	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	J	6015	CLA	C3C-C2C	4.78	1.46	1.36
21	2	2007	CLA	CHC-C1C	4.77	1.47	1.35
21	4	4012	CLA	C1C-NC	-4.77	1.30	1.37
21	4	4004	CLA	O2A-C1	4.77	1.59	1.46
27	4	4503	NEX	C28-C29	-4.77	1.35	1.45
21	2	2007	CLA	O2A-C1	4.77	1.59	1.46
21	A	1131	CLA	O2A-C1	4.76	1.59	1.46
21	B	1224	CLA	C3C-C2C	4.76	1.46	1.36
21	A	1101	CLA	CHD-C1D	4.76	1.47	1.38
21	A	1102	CLA	C3B-C2B	4.76	1.47	1.40
21	3	3017	CLA	CHD-C1D	4.76	1.47	1.38
21	A	1108	CLA	C3B-C2B	4.76	1.47	1.40
21	4	4013	CLA	CHC-C1C	4.76	1.47	1.35
21	B	1207	CLA	CHD-C1D	4.76	1.47	1.38
21	4	4013	CLA	C1D-ND	-4.76	1.31	1.37
21	A	1131	CLA	CHC-C1C	4.76	1.47	1.35
21	4	4003	CLA	C3D-C4D	-4.76	1.33	1.44
21	4	4002	CLA	O2A-C1	4.76	1.59	1.46
21	3	3016	CLA	CHD-C1D	4.75	1.47	1.38
21	4	4004	CLA	CHC-C1C	4.75	1.47	1.35
21	A	1109	CLA	CHD-C1D	4.75	1.47	1.38
21	1	1014	CLA	CHD-C1D	4.75	1.47	1.38
21	1	1010	CLA	O2A-C1	4.75	1.59	1.46
21	1	1009	CLA	C1B-NB	-4.75	1.31	1.35
21	H	1000	CLA	CHD-C1D	4.75	1.47	1.38
21	1	1002	CLA	O2D-CGD	4.75	1.44	1.33
21	B	1212	CLA	CHD-C1D	4.75	1.47	1.38
21	B	1204	CLA	C3C-C2C	4.75	1.46	1.36
21	A	1137	CLA	CHD-C1D	4.75	1.47	1.38
21	A	1138	CLA	CHD-C1D	4.75	1.47	1.38
21	B	1207	CLA	C3B-C2B	4.74	1.47	1.40
21	A	1121	CLA	C3B-C2B	4.74	1.47	1.40
21	3	3001	CLA	C3B-C2B	4.74	1.46	1.40
21	4	4005	CLA	O2D-CGD	4.74	1.44	1.33
21	2	2011	CLA	CHC-C1C	4.74	1.47	1.35
21	3	3006	CLA	CHD-C1D	4.74	1.47	1.38
21	B	1206	CLA	CHD-C1D	4.73	1.47	1.38
21	B	1216	CLA	CHD-C1D	4.73	1.47	1.38
21	A	1103	CLA	CHD-C1D	4.73	1.47	1.38
21	A	9012	CLA	C3B-C2B	4.73	1.46	1.40
21	2	2003	CLA	CHD-C4C	4.73	1.50	1.39
21	B	1201	CLA	C3B-C2B	4.73	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1120	CLA	CHD-C1D	4.73	1.47	1.38
21	A	1135	CLA	C3C-C2C	4.73	1.46	1.36
21	A	1108	CLA	CHD-C1D	4.72	1.47	1.38
21	A	1114	CLA	CHD-C1D	4.72	1.47	1.38
21	G	1001	CLA	CHC-C1C	4.72	1.47	1.35
21	B	1211	CLA	CHD-C1D	4.72	1.47	1.38
21	A	1136	CLA	C3C-C2C	4.72	1.46	1.36
21	A	1140	CLA	CHD-C1D	4.72	1.47	1.38
21	3	3008	CLA	O2D-CGD	4.72	1.44	1.33
21	A	1142	CLA	CHD-C1D	4.72	1.47	1.38
21	A	1132	CLA	C3D-C4D	-4.72	1.33	1.44
21	3	3003	CLA	C3B-C2B	4.71	1.46	1.40
21	A	1122	CLA	C3C-C2C	4.71	1.46	1.36
21	A	1141	CLA	C3C-C2C	4.71	1.46	1.36
21	2	2014	CLA	CHD-C1D	4.71	1.47	1.38
21	B	1234	CLA	CHD-C1D	4.71	1.47	1.38
21	B	1234	CLA	C3B-C2B	4.71	1.46	1.40
21	A	1119	CLA	CHD-C1D	4.70	1.47	1.38
21	B	1212	CLA	C3B-C2B	4.70	1.46	1.40
21	1	1007	CLA	O2A-C1	4.70	1.59	1.46
21	3	3011	CLA	C3D-C4D	-4.70	1.33	1.44
21	A	1138	CLA	C3C-C2C	4.70	1.46	1.36
21	A	1143	CLA	C3B-C2B	4.70	1.46	1.40
21	B	1205	CLA	CHD-C1D	4.70	1.47	1.38
21	B	1222	CLA	C3C-C2C	4.70	1.46	1.36
21	4	4009	CLA	C1D-ND	-4.70	1.32	1.37
21	A	1138	CLA	C3B-C2B	4.70	1.46	1.40
21	A	1109	CLA	C3C-C2C	4.70	1.46	1.36
21	3	3015	CLA	CHD-C1D	4.69	1.47	1.38
21	A	1133	CLA	C3D-C4D	-4.69	1.33	1.44
21	3	3008	CLA	CHC-C1C	4.69	1.47	1.35
21	B	1220	CLA	CHD-C1D	4.69	1.47	1.38
21	3	3012	CLA	C3C-C2C	4.69	1.46	1.36
21	B	1203	CLA	C3B-C2B	4.69	1.46	1.40
21	1	1003	CLA	C1D-ND	-4.69	1.32	1.37
21	3	3012	CLA	C3D-C4D	-4.68	1.33	1.44
21	4	4002	CLA	C1D-ND	-4.68	1.32	1.37
21	B	1211	CLA	C3C-C2C	4.68	1.46	1.36
21	A	1118	CLA	CHD-C1D	4.68	1.47	1.38
21	A	1102	CLA	C3C-C2C	4.68	1.46	1.36
21	1	1011	CLA	C1D-ND	-4.68	1.32	1.37
21	B	1217	CLA	C3B-C2B	4.68	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1231	CLA	CHD-C1D	4.68	1.47	1.38
21	A	1139	CLA	C3C-C2C	4.68	1.46	1.36
21	2	2014	CLA	O2D-CGD	4.68	1.44	1.33
21	B	1236	CLA	C3B-C2B	4.68	1.46	1.40
21	B	1238	CLA	C3B-C2B	4.67	1.46	1.40
21	A	1111	CLA	CHD-C1D	4.67	1.47	1.38
21	3	3013	CLA	CHD-C1D	4.67	1.47	1.38
21	B	1235	CLA	CHD-C1D	4.67	1.47	1.38
21	B	1218	CLA	C3B-C2B	4.67	1.46	1.40
21	2	2001	CLA	C3B-C4B	4.67	1.48	1.39
21	2	2006	CLA	C3B-C2B	4.67	1.46	1.40
21	J	6015	CLA	CHC-C1C	4.67	1.46	1.35
21	B	1220	CLA	C3C-C2C	4.67	1.46	1.36
21	A	1123	CLA	C3C-C2C	4.67	1.46	1.36
21	B	9010	CLA	C4B-NB	-4.67	1.31	1.35
21	A	1134	CLA	CHD-C1D	4.67	1.47	1.38
21	A	1103	CLA	C3B-C2B	4.67	1.46	1.40
21	A	1143	CLA	CHD-C1D	4.67	1.47	1.38
21	A	1113	CLA	C3B-C2B	4.66	1.46	1.40
21	A	1117	CLA	CHD-C1D	4.66	1.47	1.38
21	A	1139	CLA	CHD-C1D	4.66	1.47	1.38
21	3	3004	CLA	CHD-C1D	4.66	1.47	1.38
21	B	1235	CLA	C3C-C2C	4.66	1.46	1.36
21	1	1013	CLA	O2D-CGD	4.66	1.44	1.33
21	B	1202	CLA	C3C-C2C	4.66	1.46	1.36
21	A	1130	CLA	CHD-C1D	4.66	1.47	1.38
21	4	4005	CLA	CHD-C1D	4.66	1.47	1.38
21	3	3006	CLA	C3B-C2B	4.66	1.46	1.40
25	G	2021	LMG	O7-C10	4.66	1.45	1.35
21	3	3017	CLA	C3B-C2B	4.66	1.46	1.40
21	J	6015	CLA	O2D-CGD	4.66	1.44	1.33
21	1	1010	CLA	C3D-C4D	-4.65	1.33	1.44
21	B	1236	CLA	C3C-C2C	4.65	1.46	1.36
21	3	3001	CLA	C3C-C2C	4.65	1.46	1.36
21	A	1136	CLA	CHD-C1D	4.65	1.47	1.38
21	3	3005	CLA	C3C-C2C	4.65	1.46	1.36
21	3	3010	CLA	C3B-C2B	4.65	1.46	1.40
23	A	9011	CL0	CHC-C1C	4.65	1.46	1.35
21	2	2006	CLA	C3D-C4D	-4.65	1.33	1.44
21	A	1132	CLA	CHD-C1D	4.65	1.47	1.38
21	F	1301	CLA	C3C-C2C	4.65	1.46	1.36
21	B	1208	CLA	C3C-C2C	4.65	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	3005	CLA	CHD-C1D	4.65	1.47	1.38
21	A	1133	CLA	O2D-CGD	4.65	1.44	1.33
21	B	1225	CLA	C3C-C2C	4.65	1.46	1.36
21	B	1238	CLA	C3C-C2C	4.65	1.46	1.36
21	3	3012	CLA	CHC-C1C	4.65	1.46	1.35
21	3	3005	CLA	C3B-C2B	4.65	1.46	1.40
21	3	3016	CLA	C3C-C2C	4.65	1.46	1.36
21	3	3004	CLA	C3B-C2B	4.65	1.46	1.40
21	A	1108	CLA	C3C-C2C	4.65	1.46	1.36
21	J	6014	CLA	C3C-C2C	4.65	1.46	1.36
21	3	3012	CLA	CHD-C1D	4.65	1.47	1.38
21	1	1013	CLA	C3D-C4D	-4.64	1.33	1.44
21	3	3017	CLA	C3C-C2C	4.64	1.46	1.36
21	B	1223	CLA	C3C-C2C	4.64	1.46	1.36
21	B	1218	CLA	C3C-C2C	4.64	1.46	1.36
21	B	1222	CLA	CHD-C1D	4.64	1.47	1.38
21	4	4009	CLA	O2A-C1	4.64	1.59	1.46
21	3	3008	CLA	C3C-C2C	4.64	1.46	1.36
21	A	1112	CLA	C3B-C2B	4.64	1.46	1.40
21	B	1219	CLA	C3C-C2C	4.63	1.46	1.36
21	F	1302	CLA	C3B-C2B	4.63	1.46	1.40
21	A	1143	CLA	C3C-C2C	4.63	1.46	1.36
21	A	1113	CLA	C3C-C2C	4.63	1.46	1.36
21	3	3013	CLA	O2D-CGD	4.63	1.44	1.33
21	B	1201	CLA	CHD-C1D	4.63	1.47	1.38
21	4	4006	CLA	C3D-C4D	-4.63	1.33	1.44
21	A	9012	CLA	O2A-C1	4.63	1.59	1.46
21	A	1126	CLA	C3C-C2C	4.63	1.46	1.36
21	B	1228	CLA	CHC-C1C	4.63	1.46	1.35
21	A	1124	CLA	CHD-C1D	4.63	1.47	1.38
21	A	1125	CLA	C4B-NB	-4.63	1.31	1.35
21	A	1119	CLA	C3C-C2C	4.63	1.46	1.36
21	B	1207	CLA	C3C-C2C	4.62	1.46	1.36
21	B	1238	CLA	CHD-C1D	4.62	1.47	1.38
21	A	1105	CLA	C3C-C2C	4.62	1.46	1.36
21	1	1001	CLA	CHC-C1C	4.62	1.46	1.35
21	B	1229	CLA	C3C-C2C	4.62	1.46	1.36
21	B	1234	CLA	C3C-C2C	4.62	1.46	1.36
21	A	1140	CLA	C3C-C2C	4.62	1.46	1.36
21	B	1209	CLA	C3C-C2C	4.62	1.46	1.36
21	B	1219	CLA	CHD-C1D	4.62	1.47	1.38
21	3	3016	CLA	C3B-C2B	4.62	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1204	CLA	CHD-C1D	4.62	1.47	1.38
21	A	1127	CLA	C3C-C2C	4.62	1.46	1.36
21	3	3015	CLA	C3C-C2C	4.62	1.46	1.36
21	3	3002	CLA	CHD-C1D	4.62	1.47	1.38
21	A	1112	CLA	CHD-C1D	4.61	1.47	1.38
21	B	9010	CLA	C1B-NB	-4.61	1.31	1.35
21	A	1129	CLA	CHD-C1D	4.61	1.47	1.38
21	A	1117	CLA	C3C-C2C	4.61	1.46	1.36
21	B	1212	CLA	C3C-C2C	4.61	1.46	1.36
21	1	1012	CLA	O2D-CGD	4.61	1.44	1.33
21	3	3004	CLA	C3C-C2C	4.61	1.46	1.36
21	A	1134	CLA	C3C-C2C	4.61	1.46	1.36
21	B	1237	CLA	CHD-C1D	4.61	1.47	1.38
21	F	1302	CLA	C3C-C2C	4.61	1.46	1.36
21	B	1228	CLA	C1B-NB	-4.61	1.31	1.35
21	A	1113	CLA	CHD-C1D	4.60	1.47	1.38
21	B	1216	CLA	C3C-C2C	4.60	1.46	1.36
21	J	1302	CLA	C3C-C2C	4.60	1.46	1.36
21	A	1105	CLA	CHD-C1D	4.60	1.47	1.38
21	A	1142	CLA	C3C-C2C	4.60	1.46	1.36
21	G	1001	CLA	C1D-ND	-4.60	1.32	1.37
21	A	1135	CLA	CHD-C1D	4.60	1.47	1.38
21	J	6014	CLA	CHD-C1D	4.60	1.47	1.38
21	3	3002	CLA	C3B-C2B	4.60	1.46	1.40
21	A	1115	CLA	C3C-C2C	4.60	1.46	1.36
21	A	1105	CLA	C3B-C2B	4.60	1.46	1.40
21	B	1237	CLA	C3C-C2C	4.60	1.46	1.36
21	A	9013	CLA	C1D-ND	-4.60	1.32	1.37
21	A	1120	CLA	C3B-C2B	4.59	1.46	1.40
21	A	1116	CLA	CHD-C1D	4.59	1.47	1.38
21	A	1141	CLA	CHD-C1D	4.59	1.47	1.38
21	A	1126	CLA	C3B-C2B	4.59	1.46	1.40
21	3	3015	CLA	C3B-C2B	4.59	1.46	1.40
21	4	4012	CLA	CHC-C1C	4.59	1.46	1.35
21	B	1208	CLA	CHD-C1D	4.59	1.47	1.38
21	A	1101	CLA	C3C-C2C	4.59	1.46	1.36
21	A	1104	CLA	C3B-C2B	4.59	1.46	1.40
21	J	6014	CLA	C3B-C2B	4.59	1.46	1.40
21	B	1203	CLA	CHD-C1D	4.59	1.47	1.38
21	B	1203	CLA	C3C-C2C	4.58	1.46	1.36
21	B	1210	CLA	CHD-C1D	4.58	1.47	1.38
21	B	1215	CLA	CHD-C1D	4.58	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	3008	CLA	C3D-C4D	-4.58	1.33	1.44
21	B	9022	CLA	C4B-NB	-4.58	1.31	1.35
21	2	2013	CLA	O2D-CGD	4.58	1.44	1.33
21	A	1109	CLA	C3B-C2B	4.58	1.46	1.40
21	B	1208	CLA	C3B-C2B	4.58	1.46	1.40
21	L	1502	CLA	C3B-C2B	4.58	1.46	1.40
21	F	1303	CLA	CHC-C1C	4.58	1.46	1.35
21	2	2003	CLA	CHD-C1D	4.58	1.47	1.38
21	B	1235	CLA	C3B-C2B	4.58	1.46	1.40
21	A	1107	CLA	C3C-C2C	4.58	1.46	1.36
21	A	1111	CLA	C3B-C2B	4.58	1.46	1.40
21	A	1132	CLA	O2A-C1	4.58	1.59	1.46
21	2	2004	CLA	C1D-ND	-4.58	1.32	1.37
21	B	9010	CLA	CHC-C1C	4.58	1.46	1.35
21	A	1124	CLA	C3C-C2C	4.58	1.46	1.36
21	B	1217	CLA	C3C-C2C	4.58	1.46	1.36
21	B	1230	CLA	C3C-C2C	4.58	1.46	1.36
21	1	1003	CLA	CHC-C1C	4.58	1.46	1.35
21	A	1136	CLA	C3B-C2B	4.57	1.46	1.40
21	A	1120	CLA	C3C-C2C	4.57	1.46	1.36
21	B	9023	CLA	O2A-C1	4.57	1.59	1.46
21	2	2005	CLA	C1D-ND	-4.57	1.32	1.37
21	3	3006	CLA	C3C-C2C	4.57	1.46	1.36
21	2	2003	CLA	CHC-C1C	4.57	1.46	1.35
21	2	2005	CLA	CHC-C1C	4.57	1.46	1.35
21	A	1115	CLA	C3B-C2B	4.57	1.46	1.40
21	F	1303	CLA	O2D-CGD	4.57	1.44	1.33
21	B	1202	CLA	CHD-C1D	4.57	1.47	1.38
21	A	1110	CLA	C3C-C2C	4.57	1.46	1.36
21	A	1114	CLA	C3C-C2C	4.57	1.46	1.36
21	A	1140	CLA	C3B-C2B	4.57	1.46	1.40
21	B	1225	CLA	CHD-C1D	4.57	1.47	1.38
21	F	1301	CLA	CHD-C1D	4.57	1.47	1.38
21	A	1112	CLA	C3C-C2C	4.57	1.46	1.36
21	B	1224	CLA	CHD-C1D	4.57	1.47	1.38
21	A	1104	CLA	CHD-C1D	4.57	1.47	1.38
21	3	3008	CLA	C3B-C2B	4.57	1.46	1.40
21	A	1137	CLA	C3C-C2C	4.57	1.46	1.36
21	A	1127	CLA	CHD-C1D	4.57	1.47	1.38
21	L	1501	CLA	C3B-C2B	4.57	1.46	1.40
21	L	1502	CLA	C3C-C2C	4.56	1.46	1.36
21	H	1000	CLA	C3C-C2C	4.56	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1209	CLA	CHD-C1D	4.56	1.47	1.38
21	3	3002	CLA	C3C-C2C	4.56	1.46	1.36
21	4	4002	CLA	O2D-CGD	4.56	1.44	1.33
21	A	1104	CLA	C3C-C2C	4.56	1.46	1.36
21	A	1134	CLA	C3B-C2B	4.56	1.46	1.40
21	A	1130	CLA	C3C-C2C	4.56	1.46	1.36
21	G	1002	CLA	O2D-CGD	4.56	1.44	1.33
21	B	1205	CLA	C3C-C2C	4.56	1.46	1.36
21	B	1231	CLA	C3C-C2C	4.56	1.46	1.36
21	A	1128	CLA	CHD-C1D	4.55	1.47	1.38
21	A	1119	CLA	C3B-C2B	4.55	1.46	1.40
21	4	4012	CLA	C4B-NB	-4.55	1.31	1.35
21	A	1116	CLA	C3C-C2C	4.55	1.46	1.36
21	A	1121	CLA	C3C-C2C	4.55	1.46	1.36
21	1	1011	CLA	CHC-C1C	4.55	1.46	1.35
21	L	1502	CLA	CHD-C1D	4.54	1.47	1.38
21	B	1204	CLA	C3B-C2B	4.54	1.46	1.40
21	L	1503	CLA	C3B-C2B	4.54	1.46	1.40
21	B	1205	CLA	C3B-C2B	4.54	1.46	1.40
21	B	1231	CLA	C3B-C2B	4.54	1.46	1.40
21	A	1130	CLA	C3B-C2B	4.54	1.46	1.40
21	A	1139	CLA	C3B-C2B	4.54	1.46	1.40
21	B	1217	CLA	CHD-C1D	4.54	1.47	1.38
21	3	3014	CLA	C3B-C2B	4.54	1.46	1.40
21	B	1230	CLA	CHD-C1D	4.53	1.47	1.38
21	B	1201	CLA	C3C-C2C	4.53	1.46	1.36
21	1	1003	CLA	O2A-C1	4.53	1.58	1.46
21	3	3011	CLA	O2D-CGD	4.53	1.44	1.33
21	3	3013	CLA	C3D-C4D	-4.53	1.33	1.44
21	1	1011	CLA	O2D-CGD	4.53	1.44	1.33
21	2	2014	CLA	CHC-C1C	4.53	1.46	1.35
21	A	1135	CLA	C3B-C2B	4.53	1.46	1.40
21	F	1301	CLA	C3B-C2B	4.53	1.46	1.40
21	2	2007	CLA	O2D-CGD	4.53	1.44	1.33
21	A	1123	CLA	CHD-C1D	4.53	1.47	1.38
21	B	1240	CLA	CHC-C1C	4.53	1.46	1.35
21	F	1302	CLA	CHD-C1D	4.53	1.47	1.38
21	4	4014	CLA	CHD-C4C	4.53	1.49	1.39
21	1	1001	CLA	C1D-ND	-4.53	1.32	1.37
21	A	1115	CLA	CHD-C1D	4.52	1.47	1.38
21	2	2014	CLA	C3D-C4D	-4.52	1.34	1.44
21	B	1218	CLA	CHD-C1D	4.52	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1102	CLA	CHD-C1D	4.52	1.47	1.38
21	A	1141	CLA	C3B-C2B	4.52	1.46	1.40
21	B	1230	CLA	C3B-C2B	4.52	1.46	1.40
21	B	1215	CLA	C3C-C2C	4.52	1.46	1.36
21	4	4011	CLA	O2A-C1	4.51	1.58	1.46
21	B	1209	CLA	C3B-C2B	4.51	1.46	1.40
21	A	1118	CLA	C3C-C2C	4.51	1.46	1.36
21	B	1224	CLA	C3B-C2B	4.51	1.46	1.40
21	B	9022	CLA	O2A-C1	4.51	1.58	1.46
21	3	3003	CLA	C3C-C2C	4.51	1.46	1.36
21	B	9023	CLA	CHC-C1C	4.51	1.46	1.35
21	3	3017	CLA	C3D-C4D	-4.51	1.34	1.44
21	A	1126	CLA	CHD-C1D	4.50	1.47	1.38
21	A	1106	CLA	CHD-C1D	4.50	1.47	1.38
21	A	1129	CLA	C3B-C2B	4.50	1.46	1.40
21	4	4006	CLA	C1D-ND	-4.50	1.32	1.37
21	B	1225	CLA	C3B-C2B	4.50	1.46	1.40
21	4	4007	CLA	C3D-C4D	-4.49	1.34	1.44
21	J	6015	CLA	C3B-C2B	4.49	1.46	1.40
21	B	1223	CLA	C3D-C4D	-4.49	1.34	1.44
21	L	1501	CLA	C3D-C4D	-4.49	1.34	1.44
21	A	1128	CLA	C3B-C2B	4.49	1.46	1.40
21	L	1501	CLA	C3C-C2C	4.49	1.46	1.36
21	L	1503	CLA	C3C-C2C	4.49	1.46	1.36
21	3	3010	CLA	C3C-C2C	4.49	1.46	1.36
21	A	1116	CLA	C3B-C2B	4.49	1.46	1.40
21	B	1214	CLA	CHD-C1D	4.48	1.47	1.38
21	B	1237	CLA	C3B-C2B	4.48	1.46	1.40
21	2	2013	CLA	C1D-ND	-4.48	1.32	1.37
21	B	1221	CLA	C3C-C2C	4.48	1.46	1.36
21	A	1111	CLA	C3C-C2C	4.48	1.46	1.36
21	4	4006	CLA	C3C-C2C	4.48	1.46	1.36
20	2	2801	LHG	O8-C23	4.47	1.46	1.33
21	B	1220	CLA	C3B-C2B	4.47	1.46	1.40
21	1	1012	CLA	C3B-C2B	4.47	1.46	1.40
21	L	1503	CLA	CHD-C1D	4.47	1.47	1.38
21	B	1239	CLA	C1B-NB	-4.47	1.31	1.35
21	B	1221	CLA	CHD-C1D	4.46	1.47	1.38
21	1	1006	CLA	CHC-C1C	4.46	1.46	1.35
21	1	1014	CLA	C3D-C4D	-4.46	1.34	1.44
21	3	3009	CLA	C3D-C4D	-4.46	1.34	1.44
21	3	3001	CLA	CHD-C1D	4.46	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	J	1302	CLA	C3B-C2B	4.46	1.46	1.40
21	4	4010	CLA	CHC-C1C	4.45	1.46	1.35
21	B	9010	CLA	C1C-NC	-4.45	1.31	1.37
21	1	1006	CLA	O2A-C1	4.45	1.61	1.46
21	B	1206	CLA	C3C-C2C	4.45	1.46	1.36
21	1	1004	CLA	C1D-ND	-4.45	1.32	1.37
21	B	1227	CLA	CHC-C1C	4.45	1.46	1.35
21	B	1229	CLA	CHD-C1D	4.44	1.47	1.38
21	2	2012	CLA	C1D-ND	-4.44	1.32	1.37
21	A	1130	CLA	C3D-C4D	-4.44	1.34	1.44
21	A	1129	CLA	C3D-C4D	-4.44	1.34	1.44
21	A	1129	CLA	C3C-C2C	4.43	1.46	1.36
21	1	1013	CLA	C3C-C2C	4.43	1.46	1.36
21	B	1213	CLA	CHD-C1D	4.43	1.47	1.38
21	G	1001	CLA	O2D-CGD	4.42	1.44	1.33
21	2	2009	CLA	C3D-C4D	-4.42	1.34	1.44
21	1	1012	CLA	C1D-ND	-4.42	1.32	1.37
21	1	1005	CLA	O2D-CGD	4.42	1.44	1.33
21	B	1236	CLA	CHD-C1D	4.42	1.47	1.38
21	L	1502	CLA	C3D-C4D	-4.42	1.34	1.44
21	B	1239	CLA	CHC-C1C	4.41	1.46	1.35
21	1	1006	CLA	C3B-C2B	4.41	1.46	1.40
21	4	4009	CLA	O2D-CGD	4.41	1.44	1.33
21	B	1214	CLA	C3C-C2C	4.41	1.46	1.36
21	3	3010	CLA	C3D-C4D	-4.41	1.34	1.44
21	A	1107	CLA	C3D-C4D	-4.40	1.34	1.44
21	1	1006	CLA	C3D-C4D	-4.40	1.34	1.44
21	3	3014	CLA	CHD-C1D	4.40	1.46	1.38
21	A	1103	CLA	C3C-C2C	4.40	1.46	1.36
21	1	1003	CLA	O2D-CGD	4.40	1.43	1.33
21	A	1128	CLA	C3C-C2C	4.40	1.46	1.36
21	L	1501	CLA	CHD-C1D	4.39	1.46	1.38
21	B	1210	CLA	C3D-C4D	-4.39	1.34	1.44
21	B	1239	CLA	C1C-NC	-4.39	1.31	1.37
21	4	4011	CLA	C1C-NC	-4.39	1.31	1.37
21	B	1223	CLA	CHD-C1D	4.38	1.46	1.38
21	B	1215	CLA	C3B-C2B	4.38	1.46	1.40
21	A	1128	CLA	C3D-C4D	-4.38	1.34	1.44
21	3	3013	CLA	C3C-C2C	4.38	1.46	1.36
21	1	1006	CLA	CHD-C1D	4.38	1.46	1.38
21	A	1131	CLA	O2D-CGD	4.37	1.43	1.33
21	F	1303	CLA	C4B-NB	-4.37	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1127	CLA	C3B-C2B	4.37	1.46	1.40
21	2	2011	CLA	C1D-ND	-4.37	1.32	1.37
21	A	1131	CLA	CHD-C1D	4.37	1.46	1.38
21	1	1006	CLA	C1D-ND	-4.37	1.32	1.37
21	A	1137	CLA	C3B-C2B	4.37	1.46	1.40
21	B	9023	CLA	C1C-NC	-4.36	1.31	1.37
21	A	1122	CLA	C3B-C2B	4.36	1.46	1.40
21	B	1213	CLA	O2D-CGD	4.36	1.43	1.33
21	A	1125	CLA	O2D-CGD	4.35	1.43	1.33
21	B	1216	CLA	C3B-C2B	4.35	1.46	1.40
21	2	2004	CLA	C3D-C2D	4.35	1.46	1.36
21	L	1503	CLA	C3D-C4D	-4.35	1.34	1.44
21	B	1207	CLA	C3D-C4D	-4.34	1.34	1.44
21	1	1004	CLA	CHD-C1D	4.34	1.46	1.38
21	1	1005	CLA	C1D-ND	-4.34	1.32	1.37
21	A	1107	CLA	CHD-C1D	4.34	1.46	1.38
21	B	1217	CLA	C3D-C4D	-4.33	1.34	1.44
21	3	3011	CLA	C3C-C2C	4.33	1.45	1.36
21	A	1126	CLA	C3D-C4D	-4.33	1.34	1.44
21	A	1106	CLA	C3C-C2C	4.32	1.45	1.36
21	1	1003	CLA	CHD-C1D	4.32	1.46	1.38
21	B	1219	CLA	C3B-C2B	4.32	1.46	1.40
21	4	4010	CLA	O2D-CGD	4.31	1.43	1.33
21	4	4002	CLA	C3B-C2B	4.31	1.46	1.40
21	A	1118	CLA	C3D-C4D	-4.31	1.34	1.44
21	B	1206	CLA	C3B-C2B	4.30	1.46	1.40
25	J	5001	LMG	O8-C28	4.30	1.45	1.33
21	4	4008	CLA	CHC-C1C	4.30	1.46	1.35
21	B	9010	CLA	O2A-C1	4.30	1.58	1.46
21	B	1204	CLA	C3D-C4D	-4.29	1.34	1.44
21	A	1133	CLA	CHD-C1D	4.29	1.46	1.38
21	B	1211	CLA	C3D-C4D	-4.29	1.34	1.44
21	B	1228	CLA	C1C-NC	-4.29	1.31	1.37
21	B	1220	CLA	C3D-C4D	-4.29	1.34	1.44
21	B	1231	CLA	C3D-C4D	-4.29	1.34	1.44
21	B	1225	CLA	C3D-C4D	-4.28	1.34	1.44
21	3	3013	CLA	CHC-C1C	4.28	1.45	1.35
21	A	1135	CLA	C3D-C4D	-4.28	1.34	1.44
21	A	1132	CLA	O2D-CGD	4.28	1.43	1.33
20	A	7001	LHG	O8-C23	4.28	1.45	1.33
21	H	1000	CLA	C3D-C4D	-4.28	1.34	1.44
21	F	1303	CLA	C1C-NC	-4.28	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1216	CLA	C3D-C4D	-4.28	1.34	1.44
21	3	3014	CLA	C3C-C2C	4.27	1.45	1.36
21	4	4002	CLA	C3C-C2C	4.27	1.45	1.36
21	A	1110	CLA	C3D-C4D	-4.27	1.34	1.44
21	B	1238	CLA	C3D-C4D	-4.27	1.34	1.44
21	B	1206	CLA	C3D-C4D	-4.27	1.34	1.44
21	A	1127	CLA	C3D-C4D	-4.27	1.34	1.44
21	A	1141	CLA	C3D-C4D	-4.27	1.34	1.44
21	4	4003	CLA	C3C-C2C	4.26	1.45	1.36
21	A	1123	CLA	C3D-C4D	-4.26	1.34	1.44
21	3	3015	CLA	C3D-C4D	-4.26	1.34	1.44
21	B	1234	CLA	C3D-C4D	-4.26	1.34	1.44
21	A	1103	CLA	C3D-C4D	-4.26	1.34	1.44
21	2	2006	CLA	C1D-ND	-4.25	1.32	1.37
21	A	1112	CLA	C3D-C4D	-4.25	1.34	1.44
21	A	1136	CLA	C3D-C4D	-4.25	1.34	1.44
21	B	1222	CLA	C3D-C4D	-4.25	1.34	1.44
21	2	2006	CLA	CHD-C1D	4.25	1.46	1.38
21	B	1214	CLA	C3D-C4D	-4.25	1.34	1.44
21	4	4014	CLA	C3B-C2B	4.25	1.46	1.40
21	B	1240	CLA	O2A-C1	4.25	1.58	1.46
21	A	1138	CLA	C3D-C4D	-4.25	1.34	1.44
21	B	1237	CLA	C3D-C4D	-4.24	1.34	1.44
21	A	1140	CLA	C3D-C4D	-4.24	1.34	1.44
21	B	1219	CLA	C3D-C4D	-4.24	1.34	1.44
21	4	4001	CLA	CHD-C1D	4.24	1.46	1.38
21	4	4011	CLA	CHD-C1D	4.24	1.46	1.38
21	A	1117	CLA	C3D-C4D	-4.24	1.34	1.44
21	2	2004	CLA	O2D-CGD	4.23	1.43	1.33
21	B	1218	CLA	C3D-C4D	-4.23	1.34	1.44
21	A	1110	CLA	C3B-C2B	4.23	1.46	1.40
21	B	1203	CLA	C3D-C4D	-4.23	1.34	1.44
21	B	1240	CLA	O2D-CGD	4.22	1.43	1.33
21	B	1240	CLA	C1C-NC	-4.22	1.31	1.37
21	1	1009	CLA	O2A-C1	4.22	1.58	1.46
21	A	1122	CLA	C3D-C4D	-4.22	1.34	1.44
21	B	9022	CLA	O2D-CGD	4.22	1.43	1.33
21	2	2002	CLA	O2D-CGD	4.22	1.43	1.33
21	B	1205	CLA	C3D-C4D	-4.22	1.34	1.44
21	F	1301	CLA	C3D-C4D	-4.22	1.34	1.44
21	B	1209	CLA	C3D-C4D	-4.22	1.34	1.44
21	A	1131	CLA	C3C-C2C	4.22	1.45	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	4	4007	CLA	C3C-C2C	4.22	1.45	1.36
21	3	3002	CLA	C3D-C4D	-4.22	1.34	1.44
21	A	1133	CLA	C3C-C2C	4.21	1.45	1.36
21	1	1009	CLA	C1C-NC	-4.21	1.31	1.37
21	B	1212	CLA	C3D-C4D	-4.21	1.34	1.44
21	J	1302	CLA	C3D-C4D	-4.21	1.34	1.44
21	A	1142	CLA	C3D-C4D	-4.21	1.34	1.44
21	3	3011	CLA	CHD-C1D	4.20	1.46	1.38
21	3	3001	CLA	C3D-C4D	-4.20	1.34	1.44
21	A	1114	CLA	C3D-C4D	-4.20	1.34	1.44
21	3	3004	CLA	C3D-C4D	-4.20	1.34	1.44
21	B	1236	CLA	C3D-C4D	-4.20	1.34	1.44
21	4	4012	CLA	O2D-CGD	4.20	1.43	1.33
21	A	1120	CLA	C3D-C4D	-4.20	1.34	1.44
21	3	3006	CLA	C3D-C4D	-4.20	1.34	1.44
21	1	1007	CLA	O2D-CGD	4.20	1.43	1.33
21	A	1121	CLA	CHD-C1D	4.19	1.46	1.38
21	B	1224	CLA	C3D-C4D	-4.19	1.34	1.44
21	3	3016	CLA	C3D-C4D	-4.19	1.34	1.44
21	A	1143	CLA	C3D-C4D	-4.19	1.34	1.44
21	A	1106	CLA	C3D-C4D	-4.19	1.34	1.44
21	A	1105	CLA	C3D-C4D	-4.19	1.34	1.44
21	A	1115	CLA	C3D-C4D	-4.19	1.34	1.44
21	B	1201	CLA	C3D-C4D	-4.19	1.34	1.44
21	B	1208	CLA	C3D-C4D	-4.19	1.34	1.44
21	A	1119	CLA	C3D-C4D	-4.18	1.34	1.44
21	A	1108	CLA	C3D-C4D	-4.18	1.34	1.44
21	A	1104	CLA	C3D-C4D	-4.18	1.34	1.44
21	3	3005	CLA	C3D-C4D	-4.18	1.34	1.44
21	2	2009	CLA	C3C-C2C	4.18	1.45	1.36
21	A	1139	CLA	C3D-C4D	-4.18	1.34	1.44
21	B	1235	CLA	C3D-C4D	-4.18	1.34	1.44
21	1	1002	CLA	CHD-C1D	4.18	1.46	1.38
21	3	3009	CLA	OBD-CAD	4.18	1.29	1.22
21	A	1109	CLA	C3D-C4D	-4.18	1.34	1.44
21	3	3003	CLA	C3D-C4D	-4.17	1.34	1.44
21	A	1102	CLA	C3D-C4D	-4.17	1.34	1.44
21	A	1131	CLA	C1D-ND	-4.17	1.32	1.37
21	A	1113	CLA	C3D-C4D	-4.17	1.34	1.44
21	J	6014	CLA	C3D-C4D	-4.17	1.34	1.44
21	A	1134	CLA	C3D-C4D	-4.17	1.34	1.44
21	B	1221	CLA	C3D-C4D	-4.17	1.34	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	2010	CLA	C1D-ND	-4.17	1.32	1.37
21	J	6015	CLA	CHD-C4C	4.16	1.48	1.39
21	A	1111	CLA	C3D-C4D	-4.16	1.34	1.44
21	4	4005	CLA	CHC-C1C	4.16	1.45	1.35
21	3	3008	CLA	CHD-C1D	4.16	1.46	1.38
21	2	2014	CLA	C3B-C2B	4.16	1.46	1.40
21	3	3014	CLA	C3D-C4D	-4.16	1.34	1.44
21	B	1230	CLA	C3D-C4D	-4.16	1.34	1.44
21	A	1101	CLA	C3D-C4D	-4.16	1.34	1.44
20	A	7001	LHG	O7-C7	4.16	1.46	1.34
21	1	1008	CLA	C1C-NC	-4.16	1.31	1.37
21	A	1137	CLA	C3D-C4D	-4.16	1.34	1.44
21	B	1202	CLA	C3D-C4D	-4.16	1.34	1.44
21	A	1124	CLA	C3D-C4D	-4.16	1.34	1.44
21	2	2010	CLA	C3B-C2B	4.15	1.46	1.40
21	A	1116	CLA	C3D-C4D	-4.15	1.34	1.44
21	F	1302	CLA	C3D-C4D	-4.15	1.34	1.44
21	B	1229	CLA	C3D-C4D	-4.15	1.34	1.44
21	B	1215	CLA	C3D-C4D	-4.14	1.34	1.44
21	2	2011	CLA	C1B-NB	-4.14	1.31	1.35
21	A	1121	CLA	C3D-C4D	-4.14	1.34	1.44
21	A	1122	CLA	CHD-C4C	4.14	1.48	1.39
21	4	4007	CLA	CHD-C4C	4.14	1.48	1.39
21	3	3017	CLA	CHD-C4C	4.13	1.48	1.39
21	1	1007	CLA	C1D-ND	-4.13	1.32	1.37
21	1	1002	CLA	C1B-NB	-4.12	1.31	1.35
21	A	9013	CLA	O2A-C1	4.12	1.57	1.46
21	4	4003	CLA	CHD-C1D	4.12	1.46	1.38
21	1	1001	CLA	C4B-NB	-4.12	1.31	1.35
21	F	1303	CLA	C1B-NB	-4.12	1.31	1.35
21	A	9013	CLA	C1B-NB	-4.12	1.31	1.35
21	4	4003	CLA	C1D-ND	-4.11	1.32	1.37
21	4	4001	CLA	C1C-NC	-4.11	1.31	1.37
21	2	2011	CLA	CHD-C1D	4.11	1.46	1.38
21	4	4002	CLA	C4B-NB	-4.10	1.31	1.35
21	4	4010	CLA	C1C-NC	-4.10	1.31	1.37
21	4	4001	CLA	C4B-NB	-4.10	1.31	1.35
21	2	2007	CLA	CHD-C1D	4.10	1.46	1.38
21	1	1001	CLA	C1C-NC	-4.09	1.31	1.37
23	A	9011	CL0	O2A-C1	4.09	1.57	1.46
21	A	1132	CLA	C1D-ND	-4.09	1.32	1.37
21	4	4013	CLA	O2D-CGD	4.09	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	4	4011	CLA	CHC-C1C	4.08	1.45	1.35
25	J	5001	LMG	O7-C10	4.08	1.45	1.34
21	4	4010	CLA	C3C-C2C	4.08	1.45	1.36
21	G	1002	CLA	C3C-C2C	4.08	1.45	1.36
21	4	4005	CLA	C1C-NC	-4.07	1.31	1.37
21	2	2002	CLA	C3B-C2B	4.07	1.46	1.40
21	A	9013	CLA	O2D-CGD	4.06	1.43	1.33
21	A	9013	CLA	CHC-C1C	4.06	1.45	1.35
21	J	1302	CLA	CHD-C4C	4.06	1.48	1.39
21	B	1206	CLA	CHD-C4C	4.05	1.48	1.39
21	A	1138	CLA	CHD-C4C	4.05	1.48	1.39
21	2	2008	CLA	C3C-C2C	4.05	1.45	1.36
21	A	1103	CLA	CHD-C4C	4.04	1.48	1.39
21	A	1114	CLA	CHD-C4C	4.04	1.48	1.39
21	2	2002	CLA	C3C-C2C	4.04	1.45	1.36
21	B	1240	CLA	C4B-NB	-4.04	1.31	1.35
21	1	1009	CLA	C3B-C2B	4.04	1.46	1.40
21	4	4011	CLA	O2D-CGD	4.04	1.43	1.33
21	2	2009	CLA	CHD-C1D	4.04	1.46	1.38
21	2	2010	CLA	C3C-C2C	4.04	1.45	1.36
21	B	1226	CLA	C1B-NB	-4.03	1.31	1.35
21	2	2012	CLA	O2D-CGD	4.03	1.43	1.33
21	B	1234	CLA	CHD-C4C	4.03	1.48	1.39
21	A	1119	CLA	CHD-C4C	4.03	1.48	1.39
21	3	3003	CLA	CHD-C1D	4.03	1.46	1.38
21	B	9023	CLA	O2D-CGD	4.02	1.43	1.33
21	A	1134	CLA	CHD-C4C	4.02	1.48	1.39
21	A	1108	CLA	CHD-C4C	4.02	1.48	1.39
21	1	1001	CLA	CHD-C1D	4.02	1.46	1.38
21	B	9022	CLA	CHC-C1C	4.02	1.45	1.35
21	B	1207	CLA	CHD-C4C	4.02	1.48	1.39
21	A	1142	CLA	CHD-C4C	4.01	1.48	1.39
21	H	1000	CLA	CHD-C4C	4.01	1.48	1.39
21	B	9023	CLA	C1B-NB	-4.01	1.31	1.35
21	A	1101	CLA	CHD-C4C	4.01	1.48	1.39
21	3	3006	CLA	CHD-C4C	4.01	1.48	1.39
20	A	7003	LHG	O8-C23	4.01	1.45	1.33
21	A	1141	CLA	CHD-C4C	4.01	1.48	1.39
21	A	1110	CLA	CHD-C4C	4.01	1.48	1.39
21	1	1014	CLA	C3C-C2C	4.01	1.45	1.36
21	A	1133	CLA	C3B-C2B	4.01	1.45	1.40
21	B	1212	CLA	CHD-C4C	4.01	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1227	CLA	C1B-NB	-4.01	1.31	1.35
21	2	2002	CLA	CHD-C1D	4.01	1.46	1.38
21	2	2002	CLA	C1D-ND	-4.00	1.32	1.37
21	3	3009	CLA	CHD-C1D	4.00	1.46	1.38
21	A	1109	CLA	CHD-C4C	4.00	1.48	1.39
21	A	1120	CLA	CHD-C4C	4.00	1.48	1.39
21	3	3015	CLA	CHD-C4C	4.00	1.48	1.39
21	1	1006	CLA	C3C-C2C	4.00	1.45	1.36
21	B	1220	CLA	CHD-C4C	4.00	1.48	1.39
21	G	1002	CLA	C1D-ND	-4.00	1.32	1.37
21	A	1135	CLA	CHD-C4C	4.00	1.48	1.39
21	A	1111	CLA	CHD-C4C	4.00	1.48	1.39
21	2	2010	CLA	CHD-C1D	4.00	1.46	1.38
21	2	2009	CLA	C1B-NB	-3.99	1.31	1.35
21	A	9012	CLA	O2D-CGD	3.99	1.42	1.33
21	3	3005	CLA	CHD-C4C	3.99	1.48	1.39
21	B	1231	CLA	CHD-C4C	3.99	1.48	1.39
21	3	3016	CLA	CHD-C4C	3.99	1.48	1.39
21	4	4010	CLA	CHD-C1D	3.99	1.46	1.38
21	B	1224	CLA	CHD-C4C	3.98	1.48	1.39
21	A	1124	CLA	CHD-C4C	3.98	1.48	1.39
21	A	1137	CLA	CHD-C4C	3.98	1.48	1.39
21	1	1014	CLA	CHD-C4C	3.98	1.48	1.39
21	3	3004	CLA	CHD-C4C	3.98	1.48	1.39
21	B	1216	CLA	CHD-C4C	3.98	1.48	1.39
20	1	1801	LHG	O8-C23	3.98	1.45	1.33
21	B	9022	CLA	C1C-NC	-3.98	1.31	1.37
21	B	1218	CLA	CHD-C4C	3.98	1.48	1.39
21	1	1006	CLA	OBD-CAD	3.97	1.29	1.22
21	1	1003	CLA	C1C-NC	-3.97	1.31	1.37
21	B	1205	CLA	CHD-C4C	3.97	1.48	1.39
21	A	1117	CLA	CHD-C4C	3.97	1.48	1.39
21	B	1204	CLA	CHD-C4C	3.96	1.48	1.39
21	1	1010	CLA	C1D-ND	-3.96	1.32	1.37
21	J	6014	CLA	CHD-C4C	3.96	1.48	1.39
21	A	1140	CLA	CHD-C4C	3.96	1.48	1.39
21	3	3014	CLA	CHD-C4C	3.96	1.48	1.39
21	A	1127	CLA	CHD-C4C	3.96	1.48	1.39
21	2	2008	CLA	C3B-C2B	3.96	1.45	1.40
21	A	1118	CLA	C3B-C2B	3.96	1.45	1.40
21	4	4012	CLA	C1B-NB	-3.95	1.31	1.35
21	A	1133	CLA	C1D-ND	-3.95	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1116	CLA	CHD-C4C	3.95	1.48	1.39
21	A	1118	CLA	CHD-C4C	3.95	1.48	1.39
21	1	1002	CLA	C3C-C2C	3.95	1.45	1.36
21	B	1235	CLA	CHD-C4C	3.95	1.48	1.39
21	3	3013	CLA	OBD-CAD	3.95	1.29	1.22
21	4	4015	CLA	C3C-C2C	3.95	1.45	1.36
21	B	1222	CLA	CHD-C4C	3.95	1.48	1.39
21	2	2004	CLA	C3C-C2C	3.95	1.45	1.36
21	B	1238	CLA	CHD-C4C	3.95	1.48	1.39
21	A	1136	CLA	CHD-C4C	3.95	1.48	1.39
21	1	1011	CLA	C3B-C2B	3.94	1.45	1.40
21	B	1213	CLA	C3C-C2C	3.93	1.45	1.36
21	B	1239	CLA	O2D-CGD	3.93	1.42	1.33
21	1	1002	CLA	C1C-NC	-3.93	1.31	1.37
21	3	3013	CLA	C1D-ND	-3.93	1.32	1.37
21	A	1113	CLA	CHD-C4C	3.93	1.48	1.39
21	3	3016	CLA	MG-NC	3.93	2.15	2.06
21	A	1132	CLA	C3C-C2C	3.93	1.45	1.36
21	B	1211	CLA	CHD-C4C	3.93	1.48	1.39
21	G	1002	CLA	C3B-C2B	3.93	1.45	1.40
21	4	4003	CLA	O2D-CGD	3.93	1.42	1.33
21	2	2014	CLA	C3C-C2C	3.93	1.45	1.36
21	B	1201	CLA	CHD-C4C	3.93	1.48	1.39
21	2	2007	CLA	C3C-C2C	3.93	1.45	1.36
21	4	4010	CLA	C4B-NB	-3.93	1.31	1.35
21	B	1226	CLA	CHC-C1C	3.93	1.45	1.35
21	A	1143	CLA	CHD-C4C	3.92	1.48	1.39
21	B	9022	CLA	C3B-C2B	3.92	1.45	1.40
21	3	3002	CLA	CHD-C4C	3.92	1.48	1.39
21	A	1105	CLA	CHD-C4C	3.92	1.48	1.39
21	B	1225	CLA	CHD-C4C	3.92	1.48	1.39
21	A	1123	CLA	CHD-C4C	3.92	1.48	1.39
21	1	1009	CLA	O2D-CGD	3.92	1.42	1.33
21	1	1007	CLA	C3C-C2C	3.92	1.45	1.36
21	A	1139	CLA	CHD-C4C	3.92	1.48	1.39
21	B	1215	CLA	CHD-C4C	3.92	1.48	1.39
21	2	2003	CLA	C3B-C2B	3.92	1.45	1.40
21	J	1302	CLA	MG-NC	3.92	2.15	2.06
21	A	1112	CLA	CHD-C4C	3.91	1.48	1.39
21	B	1219	CLA	CHD-C4C	3.91	1.48	1.39
21	B	1221	CLA	MG-NC	3.91	2.15	2.06
21	4	4001	CLA	O2D-CGD	3.91	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	2009	CLA	C4B-NB	-3.91	1.31	1.35
21	A	1102	CLA	CHD-C4C	3.91	1.48	1.39
21	B	1203	CLA	CHD-C4C	3.90	1.48	1.39
21	3	3012	CLA	CHD-C4C	3.90	1.48	1.39
21	G	1001	CLA	C3C-C2C	3.90	1.45	1.36
21	1	1014	CLA	OBD-CAD	3.90	1.29	1.22
21	2	2004	CLA	CAD-CBD	-3.90	1.48	1.54
21	4	4008	CLA	C1B-NB	-3.90	1.31	1.35
21	G	1001	CLA	C3B-C2B	3.90	1.45	1.40
21	1	1009	CLA	CHD-C1D	3.90	1.46	1.38
21	1	1010	CLA	C3C-C2C	3.90	1.45	1.36
21	A	1129	CLA	CHD-C4C	3.90	1.48	1.39
21	F	1302	CLA	CHD-C4C	3.90	1.48	1.39
21	B	1237	CLA	CHD-C4C	3.89	1.48	1.39
21	H	1000	CLA	MG-NC	3.89	2.15	2.06
21	A	1123	CLA	MG-NC	3.89	2.15	2.06
21	L	1502	CLA	CHD-C4C	3.89	1.48	1.39
21	A	1132	CLA	C3B-C2B	3.89	1.45	1.40
21	4	4014	CLA	C1D-ND	-3.89	1.33	1.37
21	A	9012	CLA	C3C-C2C	3.89	1.45	1.36
21	4	4015	CLA	C1C-NC	-3.88	1.32	1.37
21	1	1005	CLA	C4B-NB	-3.88	1.31	1.35
21	A	1104	CLA	CHD-C4C	3.88	1.48	1.39
21	2	2004	CLA	CHD-C1D	3.88	1.45	1.38
21	A	1130	CLA	CHD-C4C	3.88	1.48	1.39
21	B	1236	CLA	CHD-C4C	3.88	1.48	1.39
21	A	1126	CLA	CHD-C4C	3.88	1.48	1.39
21	A	1131	CLA	C3B-C2B	3.88	1.45	1.40
21	B	1217	CLA	CHD-C4C	3.88	1.48	1.39
21	2	2006	CLA	C3C-C2C	3.88	1.45	1.36
19	B	6011	BCR	C11-C12	-3.87	1.24	1.34
21	1	1011	CLA	CHD-C1D	3.87	1.45	1.38
21	B	1230	CLA	CHD-C4C	3.87	1.48	1.39
21	A	1115	CLA	CHD-C4C	3.87	1.48	1.39
21	A	1128	CLA	CHD-C4C	3.87	1.48	1.39
21	3	3008	CLA	C1D-ND	-3.87	1.33	1.37
21	3	3004	CLA	MG-NC	3.87	2.15	2.06
21	4	4007	CLA	MG-NC	3.87	2.15	2.06
21	F	1302	CLA	MG-NC	3.87	2.15	2.06
21	F	1303	CLA	CHD-C1D	3.87	1.45	1.38
21	2	2007	CLA	C1D-ND	-3.87	1.33	1.37
20	A	7003	LHG	O7-C7	3.87	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	2014	CLA	C1D-ND	-3.87	1.33	1.37
21	2	2011	CLA	C3C-C2C	3.87	1.44	1.36
21	4	4011	CLA	C4B-NB	-3.87	1.31	1.35
21	1	1002	CLA	C4B-NB	-3.86	1.31	1.35
21	A	1134	CLA	MG-NC	3.86	2.15	2.06
21	A	1142	CLA	MG-NC	3.86	2.15	2.06
21	3	3006	CLA	MG-NC	3.86	2.15	2.06
21	A	1125	CLA	C3C-C2C	3.86	1.44	1.36
21	4	4002	CLA	CHC-C1C	3.86	1.44	1.35
21	3	3009	CLA	C3C-C2C	3.86	1.44	1.36
21	3	3005	CLA	MG-NC	3.86	2.15	2.06
21	2	2012	CLA	C1B-NB	-3.86	1.31	1.35
21	4	4011	CLA	C1B-NB	-3.86	1.31	1.35
21	B	1208	CLA	CHD-C4C	3.85	1.48	1.39
21	4	4008	CLA	C3B-C2B	3.85	1.45	1.40
21	L	1503	CLA	CHD-C4C	3.85	1.48	1.39
21	F	1301	CLA	CHD-C4C	3.85	1.48	1.39
21	B	1210	CLA	CHD-C4C	3.84	1.48	1.39
21	A	1107	CLA	MG-NC	3.84	2.15	2.06
21	B	1210	CLA	MG-NC	3.84	2.15	2.06
21	2	2012	CLA	CHD-C1D	3.84	1.45	1.38
21	B	1214	CLA	CHD-C4C	3.84	1.48	1.39
21	B	1223	CLA	MG-NC	3.84	2.15	2.06
21	2	2002	CLA	CHD-C4C	3.84	1.48	1.39
21	3	3015	CLA	MG-NC	3.84	2.15	2.06
21	B	1234	CLA	MG-NC	3.83	2.15	2.06
21	A	1139	CLA	MG-NC	3.83	2.15	2.06
21	4	4010	CLA	C1B-NB	-3.83	1.31	1.35
21	1	1007	CLA	CHD-C1D	3.83	1.45	1.38
21	A	1143	CLA	MG-NC	3.83	2.15	2.06
21	A	1125	CLA	C1B-NB	-3.83	1.31	1.35
21	3	3010	CLA	C1D-ND	-3.83	1.33	1.37
21	A	1126	CLA	MG-NC	3.83	2.15	2.06
21	A	1120	CLA	MG-NC	3.83	2.15	2.06
21	1	1002	CLA	C3B-C2B	3.83	1.45	1.40
21	1	1004	CLA	C1C-NC	-3.83	1.32	1.37
21	3	3002	CLA	MG-NC	3.83	2.15	2.06
21	A	1113	CLA	MG-NC	3.83	2.15	2.06
21	2	2006	CLA	MG-NC	3.82	2.15	2.06
21	B	1240	CLA	C3C-C2C	3.82	1.44	1.36
21	1	1012	CLA	C3C-C2C	3.82	1.44	1.36
21	B	9010	CLA	O2D-CGD	3.82	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	1	1009	CLA	CHC-C1C	3.82	1.44	1.35
21	4	4006	CLA	OBD-CAD	3.82	1.29	1.22
21	B	1202	CLA	CHD-C4C	3.82	1.47	1.39
21	A	1114	CLA	MG-NC	3.82	2.15	2.06
21	B	1224	CLA	OBD-CAD	3.81	1.29	1.22
20	B	7004	LHG	O8-C23	3.81	1.44	1.33
21	A	1143	CLA	OBD-CAD	3.81	1.29	1.22
21	3	3006	CLA	OBD-CAD	3.81	1.29	1.22
21	2	2012	CLA	C3C-C2C	3.81	1.44	1.36
21	A	1138	CLA	OBD-CAD	3.81	1.29	1.22
21	B	1225	CLA	MG-NC	3.81	2.15	2.06
21	3	3015	CLA	OBD-CAD	3.81	1.29	1.22
21	J	6014	CLA	MG-NC	3.81	2.15	2.06
21	A	1118	CLA	MG-NC	3.80	2.15	2.06
21	A	1136	CLA	MG-NC	3.80	2.15	2.06
21	B	1215	CLA	OBD-CAD	3.80	1.29	1.22
21	B	1209	CLA	CHD-C4C	3.80	1.47	1.39
21	B	1203	CLA	MG-NC	3.80	2.15	2.06
21	B	1217	CLA	MG-NC	3.80	2.15	2.06
21	B	1229	CLA	OBD-CAD	3.80	1.29	1.22
21	1	1003	CLA	C1B-NB	-3.80	1.31	1.35
21	B	1222	CLA	OBD-CAD	3.80	1.29	1.22
21	B	1220	CLA	OBD-CAD	3.80	1.29	1.22
21	J	1302	CLA	OBD-CAD	3.79	1.29	1.22
21	1	1005	CLA	C3C-C2C	3.79	1.44	1.36
21	4	4013	CLA	C3C-C2C	3.79	1.44	1.36
21	A	1122	CLA	OBD-CAD	3.79	1.29	1.22
21	4	4004	CLA	O2D-CGD	3.79	1.42	1.33
21	A	1105	CLA	OBD-CAD	3.79	1.29	1.22
21	4	4002	CLA	C1C-NC	-3.79	1.32	1.37
21	A	1112	CLA	MG-NC	3.79	2.15	2.06
21	A	1137	CLA	OBD-CAD	3.78	1.29	1.22
21	A	1105	CLA	MG-NC	3.78	2.15	2.06
21	B	1238	CLA	MG-NC	3.78	2.15	2.06
21	4	4004	CLA	CHD-C1D	3.78	1.45	1.38
21	2	2007	CLA	C3B-C2B	3.78	1.45	1.40
21	2	2011	CLA	O2D-CGD	3.78	1.42	1.33
21	3	3016	CLA	OBD-CAD	3.78	1.29	1.22
21	A	1141	CLA	MG-NC	3.78	2.15	2.06
21	1	1005	CLA	CHD-C1D	3.78	1.45	1.38
21	A	1113	CLA	OBD-CAD	3.78	1.29	1.22
21	2	2005	CLA	C3C-C2C	3.78	1.44	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1229	CLA	CHD-C4C	3.78	1.47	1.39
21	A	1120	CLA	OBD-CAD	3.78	1.29	1.22
21	A	1121	CLA	OBD-CAD	3.78	1.29	1.22
21	A	1115	CLA	MG-NC	3.78	2.15	2.06
21	B	1201	CLA	MG-NC	3.78	2.15	2.06
21	B	1216	CLA	MG-NC	3.78	2.15	2.06
21	A	1141	CLA	OBD-CAD	3.78	1.29	1.22
21	B	1207	CLA	MG-NC	3.77	2.15	2.06
21	A	1110	CLA	OBD-CAD	3.77	1.29	1.22
21	A	1117	CLA	OBD-CAD	3.77	1.29	1.22
21	B	1216	CLA	OBD-CAD	3.77	1.29	1.22
21	B	1237	CLA	MG-NC	3.77	2.15	2.06
21	A	1103	CLA	OBD-CAD	3.77	1.29	1.22
21	J	6015	CLA	OBD-CAD	3.77	1.29	1.22
21	L	1501	CLA	CHD-C4C	3.77	1.47	1.39
21	A	1134	CLA	OBD-CAD	3.77	1.29	1.22
21	B	1201	CLA	OBD-CAD	3.77	1.29	1.22
21	B	1209	CLA	MG-NC	3.77	2.15	2.06
21	J	6014	CLA	OBD-CAD	3.77	1.29	1.22
21	A	1139	CLA	OBD-CAD	3.77	1.29	1.22
21	A	1116	CLA	MG-NC	3.77	2.15	2.06
21	4	4008	CLA	O2D-CGD	3.77	1.42	1.33
21	A	1127	CLA	MG-NC	3.77	2.15	2.06
20	B	7004	LHG	O7-C7	3.77	1.44	1.34
21	B	1229	CLA	MG-NC	3.77	2.15	2.06
21	1	1008	CLA	CHD-C1D	3.77	1.45	1.38
21	A	1135	CLA	MG-NC	3.77	2.15	2.06
21	B	1205	CLA	OBD-CAD	3.77	1.29	1.22
21	B	1219	CLA	MG-NC	3.77	2.15	2.06
21	B	1225	CLA	OBD-CAD	3.77	1.29	1.22
21	B	1212	CLA	OBD-CAD	3.77	1.29	1.22
21	3	3002	CLA	OBD-CAD	3.76	1.29	1.22
21	A	1101	CLA	OBD-CAD	3.76	1.29	1.22
21	A	1119	CLA	MG-NC	3.76	2.15	2.06
21	4	4013	CLA	C4B-NB	-3.76	1.31	1.35
21	B	1207	CLA	OBD-CAD	3.76	1.29	1.22
21	3	3005	CLA	OBD-CAD	3.76	1.29	1.22
21	B	1208	CLA	OBD-CAD	3.76	1.29	1.22
21	A	1121	CLA	CHD-C4C	3.76	1.47	1.39
21	A	1104	CLA	MG-NC	3.76	2.15	2.06
21	A	1106	CLA	CHD-C4C	3.76	1.47	1.39
21	A	1142	CLA	OBD-CAD	3.76	1.29	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1114	CLA	OBD-CAD	3.76	1.29	1.22
21	H	1000	CLA	OBD-CAD	3.76	1.29	1.22
21	4	4015	CLA	O2D-CGD	3.76	1.42	1.33
21	A	1127	CLA	OBD-CAD	3.76	1.29	1.22
21	A	1106	CLA	OBD-CAD	3.75	1.28	1.22
21	B	1231	CLA	OBD-CAD	3.75	1.28	1.22
21	A	1102	CLA	OBD-CAD	3.75	1.28	1.22
21	2	2014	CLA	CHD-C4C	3.75	1.47	1.39
21	2	2013	CLA	C1C-NC	-3.75	1.32	1.37
21	3	3010	CLA	CHD-C1D	3.75	1.45	1.38
21	A	1124	CLA	OBD-CAD	3.75	1.28	1.22
21	B	1237	CLA	OBD-CAD	3.75	1.28	1.22
21	B	1212	CLA	MG-NC	3.75	2.15	2.06
21	B	1223	CLA	CHD-C4C	3.75	1.47	1.39
21	B	1206	CLA	OBD-CAD	3.75	1.28	1.22
21	A	1121	CLA	MG-NC	3.74	2.15	2.06
21	3	3003	CLA	OBD-CAD	3.74	1.28	1.22
21	1	1004	CLA	O2D-CGD	3.74	1.42	1.33
21	3	3013	CLA	CHD-C4C	3.74	1.47	1.39
21	3	3004	CLA	OBD-CAD	3.74	1.28	1.22
21	B	1218	CLA	OBD-CAD	3.74	1.28	1.22
21	B	1236	CLA	MG-NC	3.74	2.15	2.06
21	1	1014	CLA	C3B-C2B	3.74	1.45	1.40
21	F	1301	CLA	MG-NC	3.74	2.15	2.06
21	A	1112	CLA	OBD-CAD	3.73	1.28	1.22
21	A	1140	CLA	OBD-CAD	3.73	1.28	1.22
21	B	1238	CLA	OBD-CAD	3.73	1.28	1.22
21	A	1116	CLA	OBD-CAD	3.73	1.28	1.22
21	1	1008	CLA	C1B-NB	-3.73	1.31	1.35
21	A	1104	CLA	OBD-CAD	3.73	1.28	1.22
21	B	1202	CLA	MG-NC	3.73	2.15	2.06
21	4	4014	CLA	C3C-C2C	3.73	1.44	1.36
21	A	1111	CLA	OBD-CAD	3.73	1.28	1.22
21	A	1102	CLA	MG-NC	3.73	2.15	2.06
21	A	1140	CLA	MG-NC	3.73	2.15	2.06
21	2	2004	CLA	C3B-C2B	3.73	1.45	1.40
21	J	6015	CLA	C1D-ND	-3.73	1.33	1.37
21	A	1108	CLA	MG-NC	3.73	2.15	2.06
21	A	1108	CLA	OBD-CAD	3.72	1.28	1.22
21	A	1106	CLA	MG-NC	3.72	2.15	2.06
21	B	1209	CLA	OBD-CAD	3.72	1.28	1.22
21	A	1101	CLA	MG-NC	3.72	2.15	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1220	CLA	MG-NC	3.72	2.15	2.06
21	B	1205	CLA	MG-NC	3.72	2.15	2.06
21	1	1012	CLA	CHD-C1D	3.72	1.45	1.38
21	B	1214	CLA	MG-NC	3.72	2.15	2.06
21	3	3009	CLA	C1D-ND	-3.72	1.33	1.37
21	A	1109	CLA	OBD-CAD	3.72	1.28	1.22
21	A	1107	CLA	CHD-C4C	3.72	1.47	1.39
21	A	1123	CLA	OBD-CAD	3.72	1.28	1.22
21	B	1230	CLA	OBD-CAD	3.71	1.28	1.22
21	1	1003	CLA	CHD-C4C	3.71	1.47	1.39
21	B	1221	CLA	CHD-C4C	3.71	1.47	1.39
21	1	1014	CLA	MG-NC	3.71	2.15	2.06
21	F	1301	CLA	OBD-CAD	3.71	1.28	1.22
21	A	1136	CLA	OBD-CAD	3.71	1.28	1.22
21	3	3017	CLA	MG-NC	3.71	2.15	2.06
21	B	1231	CLA	MG-NC	3.71	2.15	2.06
21	B	1208	CLA	MG-NC	3.70	2.15	2.06
21	B	1221	CLA	OBD-CAD	3.70	1.28	1.22
21	A	1115	CLA	OBD-CAD	3.70	1.28	1.22
21	B	1227	CLA	CHD-C1D	3.70	1.45	1.38
21	A	1119	CLA	OBD-CAD	3.70	1.28	1.22
21	A	1124	CLA	MG-NC	3.70	2.15	2.06
21	2	2006	CLA	CHD-C4C	3.70	1.47	1.39
21	1	1008	CLA	C4B-NB	-3.70	1.31	1.35
21	B	1204	CLA	MG-NC	3.70	2.15	2.06
21	A	1118	CLA	OBD-CAD	3.70	1.28	1.22
21	B	1227	CLA	C4B-NB	-3.70	1.31	1.35
21	B	1215	CLA	MG-NC	3.70	2.15	2.06
21	A	1107	CLA	OBD-CAD	3.70	1.28	1.22
21	B	1236	CLA	OBD-CAD	3.70	1.28	1.22
21	B	1213	CLA	C1C-NC	-3.70	1.32	1.37
21	4	4008	CLA	C3C-C2C	3.69	1.44	1.36
21	B	1211	CLA	OBD-CAD	3.69	1.28	1.22
21	4	4015	CLA	C4B-NB	-3.69	1.31	1.35
21	4	4015	CLA	C1B-NB	-3.69	1.31	1.35
21	B	1227	CLA	C3C-C2C	3.69	1.44	1.36
21	4	4001	CLA	CHD-C4C	3.69	1.47	1.39
21	B	1224	CLA	MG-NC	3.68	2.15	2.06
21	4	4001	CLA	C3C-C2C	3.68	1.44	1.36
21	4	4004	CLA	C3C-C2C	3.68	1.44	1.36
21	4	4008	CLA	CHD-C1D	3.68	1.45	1.38
21	1	1010	CLA	C3B-C2B	3.68	1.45	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1213	CLA	C1D-ND	-3.68	1.33	1.37
21	3	3017	CLA	OBD-CAD	3.68	1.28	1.22
21	B	1211	CLA	MG-NC	3.68	2.15	2.06
21	B	1230	CLA	MG-NC	3.67	2.15	2.06
21	G	1001	CLA	C1C-NC	-3.67	1.32	1.37
21	B	1202	CLA	OBD-CAD	3.67	1.28	1.22
21	1	1003	CLA	C4B-NB	-3.67	1.31	1.35
21	3	3010	CLA	OBD-CAD	3.67	1.28	1.22
21	3	3014	CLA	OBD-CAD	3.67	1.28	1.22
21	B	1214	CLA	OBD-CAD	3.67	1.28	1.22
21	A	1117	CLA	MG-NC	3.67	2.15	2.06
21	3	3001	CLA	CHD-C4C	3.67	1.47	1.39
21	4	4013	CLA	CHD-C1D	3.67	1.45	1.38
21	A	1103	CLA	MG-NC	3.67	2.15	2.06
21	B	9022	CLA	C3C-C2C	3.67	1.44	1.36
21	B	1234	CLA	OBD-CAD	3.67	1.28	1.22
21	1	1010	CLA	OBD-CAD	3.66	1.28	1.22
21	3	3003	CLA	CHD-C4C	3.66	1.47	1.39
21	F	1302	CLA	OBD-CAD	3.66	1.28	1.22
21	A	1137	CLA	MG-NC	3.66	2.15	2.06
21	1	1006	CLA	CHD-C4C	3.66	1.47	1.39
21	3	3009	CLA	C3B-C2B	3.65	1.45	1.40
21	A	1122	CLA	MG-NC	3.65	2.14	2.06
21	2	2012	CLA	C1C-NC	-3.64	1.32	1.37
21	4	4004	CLA	C1C-NC	-3.64	1.32	1.37
21	A	1131	CLA	CHD-C4C	3.64	1.47	1.39
21	3	3012	CLA	C1D-ND	-3.64	1.33	1.37
21	4	4005	CLA	C4B-NB	-3.64	1.32	1.35
21	B	9010	CLA	C3B-C2B	3.64	1.45	1.40
21	A	1129	CLA	MG-NC	3.64	2.14	2.06
21	3	3012	CLA	OBD-CAD	3.64	1.28	1.22
21	2	2001	CLA	CHC-C1C	3.64	1.48	1.39
21	G	1002	CLA	CHD-C1D	3.63	1.45	1.38
21	3	3011	CLA	C1D-ND	-3.63	1.33	1.37
21	L	1503	CLA	MG-NC	3.63	2.14	2.06
21	3	3001	CLA	OBD-CAD	3.63	1.28	1.22
21	3	3008	CLA	CHD-C4C	3.63	1.47	1.39
21	4	4006	CLA	C1B-NB	-3.63	1.32	1.35
21	A	1111	CLA	MG-NC	3.62	2.14	2.06
21	B	1235	CLA	MG-NC	3.62	2.14	2.06
21	B	1235	CLA	OBD-CAD	3.62	1.28	1.22
21	4	4002	CLA	CHD-C1D	3.62	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	L	1501	CLA	MG-NC	3.62	2.14	2.06
21	B	1206	CLA	MG-NC	3.61	2.14	2.06
21	B	1227	CLA	C1C-NC	-3.61	1.32	1.37
21	B	9023	CLA	CHD-C1D	3.61	1.45	1.38
21	2	2005	CLA	C1C-NC	-3.61	1.32	1.37
21	L	1503	CLA	OBD-CAD	3.61	1.28	1.22
20	2	2801	LHG	O7-C7	3.61	1.44	1.34
21	2	2001	CLA	C2D-C1D	3.61	1.49	1.42
21	B	1203	CLA	OBD-CAD	3.61	1.28	1.22
21	3	3011	CLA	C3B-C2B	3.60	1.45	1.40
21	2	2008	CLA	CHD-C1D	3.60	1.45	1.38
21	B	1219	CLA	OBD-CAD	3.60	1.28	1.22
21	1	1013	CLA	C1C-NC	-3.60	1.32	1.37
21	2	2011	CLA	C1C-NC	-3.60	1.32	1.37
21	A	1110	CLA	MG-NC	3.60	2.14	2.06
21	4	4013	CLA	C1B-NB	-3.60	1.32	1.35
21	A	1132	CLA	CHD-C4C	3.60	1.47	1.39
21	1	1011	CLA	C3C-C2C	3.59	1.44	1.36
21	A	1135	CLA	OBD-CAD	3.59	1.28	1.22
21	1	1004	CLA	CHD-C4C	3.59	1.47	1.39
21	3	3011	CLA	OBD-CAD	3.59	1.28	1.22
21	2	2008	CLA	OBD-CAD	3.59	1.28	1.22
21	G	1001	CLA	CHD-C1D	3.59	1.45	1.38
21	1	1013	CLA	CHD-C1D	3.59	1.45	1.38
21	1	1010	CLA	C1C-NC	-3.59	1.32	1.37
21	3	3014	CLA	MG-NC	3.58	2.14	2.06
21	1	1010	CLA	CHD-C1D	3.58	1.45	1.38
21	1	1003	CLA	C3C-C2C	3.58	1.44	1.36
21	1	1005	CLA	C3B-C2B	3.58	1.45	1.40
21	1	1012	CLA	C1C-NC	-3.58	1.32	1.37
21	A	1128	CLA	MG-NC	3.58	2.14	2.06
21	1	1001	CLA	C3C-C2C	3.58	1.44	1.36
21	1	1008	CLA	O2D-CGD	3.58	1.41	1.33
21	A	1138	CLA	MG-NC	3.57	2.14	2.06
21	A	1109	CLA	MG-NC	3.57	2.14	2.06
21	A	9012	CLA	C1C-NC	-3.57	1.32	1.37
21	B	1218	CLA	MG-NC	3.57	2.14	2.06
21	L	1502	CLA	OBD-CAD	3.57	1.28	1.22
21	4	4005	CLA	C3C-C2C	3.57	1.44	1.36
21	L	1501	CLA	OBD-CAD	3.57	1.28	1.22
21	B	1204	CLA	OBD-CAD	3.57	1.28	1.22
21	1	1013	CLA	C1D-ND	-3.57	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1239	CLA	C3C-C2C	3.56	1.44	1.36
21	A	1125	CLA	C1C-NC	-3.56	1.32	1.37
21	A	1128	CLA	OBD-CAD	3.56	1.28	1.22
21	B	1240	CLA	CHD-C1D	3.56	1.45	1.38
21	B	1240	CLA	C3B-C2B	3.56	1.45	1.40
21	B	1210	CLA	OBD-CAD	3.55	1.28	1.22
21	G	1002	CLA	C1C-NC	-3.55	1.32	1.37
21	B	9023	CLA	C3C-C2C	3.55	1.44	1.36
21	1	1007	CLA	C1B-NB	-3.55	1.32	1.35
21	A	1130	CLA	OBD-CAD	3.55	1.28	1.22
21	A	1133	CLA	CHD-C4C	3.55	1.47	1.39
21	A	1129	CLA	OBD-CAD	3.54	1.28	1.22
21	A	9013	CLA	C3B-C2B	3.54	1.45	1.40
21	4	4003	CLA	C3B-C2B	3.54	1.45	1.40
21	A	1130	CLA	MG-NC	3.54	2.14	2.06
21	4	4008	CLA	C1C-NC	-3.53	1.32	1.37
21	B	1217	CLA	OBD-CAD	3.53	1.28	1.22
21	B	1222	CLA	MG-NC	3.53	2.14	2.06
21	A	1126	CLA	OBD-CAD	3.53	1.28	1.22
21	4	4015	CLA	CHD-C1D	3.53	1.45	1.38
21	3	3003	CLA	MG-NC	3.53	2.14	2.06
21	4	4003	CLA	C1C-NC	-3.53	1.32	1.37
21	1	1008	CLA	C3C-C2C	3.53	1.44	1.36
21	3	3012	CLA	C3B-C2B	3.52	1.45	1.40
21	B	1228	CLA	CHD-C1D	3.52	1.45	1.38
21	2	2008	CLA	C4B-NB	-3.52	1.32	1.35
21	2	2009	CLA	C1C-NC	-3.52	1.32	1.37
21	4	4009	CLA	C1C-NC	-3.52	1.32	1.37
21	1	1009	CLA	C3C-C2C	3.52	1.44	1.36
21	1	1014	CLA	C1D-ND	-3.52	1.33	1.37
21	4	4012	CLA	C3C-C2C	3.51	1.44	1.36
21	2	2001	CLA	CHD-C1D	3.51	1.46	1.38
21	H	1000	CLA	C3B-C2B	3.51	1.45	1.40
23	A	9011	CL0	CHD-C1D	3.51	1.45	1.38
21	4	4009	CLA	C3B-C2B	3.51	1.45	1.40
21	2	2009	CLA	C3B-C2B	3.51	1.45	1.40
21	1	1007	CLA	C1C-NC	-3.50	1.32	1.37
21	1	1007	CLA	C3B-C2B	3.50	1.45	1.40
21	3	3011	CLA	CHD-C4C	3.50	1.47	1.39
21	2	2008	CLA	C1D-ND	-3.50	1.33	1.37
21	A	1125	CLA	C3B-C2B	3.50	1.45	1.40
21	B	1226	CLA	CHD-C1D	3.49	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	3001	CLA	MG-NC	3.49	2.14	2.06
21	2	2013	CLA	C3B-C2B	3.49	1.45	1.40
21	B	1213	CLA	C3B-C2B	3.49	1.45	1.40
21	1	1001	CLA	C3B-C2B	3.49	1.45	1.40
21	A	9013	CLA	CHD-C1D	3.49	1.45	1.38
21	A	9013	CLA	C3C-C2C	3.48	1.44	1.36
21	1	1005	CLA	C1C-NC	-3.48	1.32	1.37
20	1	1801	LHG	O7-C7	3.48	1.44	1.34
21	L	1502	CLA	MG-NC	3.48	2.14	2.06
21	B	1228	CLA	O2D-CGD	3.48	1.41	1.33
21	4	4009	CLA	C3C-C2C	3.47	1.44	1.36
21	B	1213	CLA	CHD-C4C	3.45	1.47	1.39
21	2	2014	CLA	C1B-NB	-3.45	1.32	1.35
21	3	3010	CLA	CHD-C4C	3.45	1.47	1.39
21	2	2010	CLA	CHD-C4C	3.45	1.47	1.39
21	2	2004	CLA	CHD-C4C	3.44	1.47	1.39
21	2	2013	CLA	CHD-C1D	3.43	1.45	1.38
21	2	2004	CLA	C1C-NC	-3.43	1.32	1.37
19	A	6002	BCR	C11-C12	-3.42	1.25	1.34
21	1	1004	CLA	C1B-NB	-3.42	1.32	1.35
21	B	1228	CLA	C3B-C2B	3.42	1.45	1.40
23	A	9011	CL0	O2D-CGD	3.42	1.41	1.33
21	G	1001	CLA	C4B-NB	-3.42	1.32	1.35
21	A	1132	CLA	C1C-NC	-3.41	1.32	1.37
21	4	4004	CLA	OBD-CAD	3.41	1.28	1.22
21	4	4014	CLA	OBD-CAD	3.41	1.28	1.22
21	4	4002	CLA	C1B-NB	-3.41	1.32	1.35
21	4	4015	CLA	C3B-C2B	3.41	1.45	1.40
21	2	2012	CLA	CHD-C4C	3.40	1.47	1.39
21	2	2013	CLA	C4B-NB	-3.39	1.32	1.35
19	G	2011	BCR	C11-C12	-3.39	1.25	1.34
21	4	4005	CLA	CHD-C4C	3.39	1.47	1.39
21	2	2009	CLA	CHD-C4C	3.39	1.47	1.39
21	2	2006	CLA	OBD-CAD	3.38	1.28	1.22
21	2	2005	CLA	C3B-C2B	3.38	1.45	1.40
19	F	6016	BCR	C11-C12	-3.38	1.25	1.34
21	1	1004	CLA	C4B-NB	-3.38	1.32	1.35
21	F	1303	CLA	MG-NC	3.37	2.14	2.06
21	2	2003	CLA	C1D-ND	-3.37	1.33	1.37
19	L	6019	BCR	C11-C12	-3.37	1.25	1.34
21	2	2011	CLA	OBD-CAD	3.36	1.28	1.22
21	B	1227	CLA	O2D-CGD	3.36	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	2	2502	LUT	C1-C6	-3.36	1.49	1.53
21	4	4004	CLA	CHD-C4C	3.36	1.46	1.39
21	3	3013	CLA	C1C-NC	-3.35	1.32	1.37
21	2	2001	CLA	C2D-C3D	3.35	1.45	1.36
21	B	1228	CLA	C4B-NB	-3.34	1.32	1.35
21	2	2003	CLA	OBD-CAD	3.34	1.28	1.22
21	4	4008	CLA	C4B-NB	-3.33	1.32	1.35
19	B	6004	BCR	C11-C12	-3.33	1.26	1.34
19	I	6020	BCR	C11-C12	-3.33	1.26	1.34
21	1	1011	CLA	CHD-C4C	3.33	1.46	1.39
21	A	1133	CLA	OBD-CAD	3.32	1.28	1.22
21	2	2012	CLA	C4B-NB	-3.32	1.32	1.35
21	4	4008	CLA	MG-NC	3.32	2.14	2.06
19	L	6020	BCR	C11-C12	-3.32	1.26	1.34
19	J	6013	BCR	C11-C12	-3.31	1.26	1.34
21	2	2005	CLA	CHD-C1D	3.31	1.44	1.38
21	4	4002	CLA	OBD-CAD	3.31	1.28	1.22
19	B	6006	BCR	C11-C12	-3.30	1.26	1.34
21	4	4006	CLA	C1C-NC	-3.30	1.32	1.37
21	2	2001	CLA	MG-NC	3.30	2.14	2.06
21	1	1013	CLA	C4B-NB	-3.29	1.32	1.35
21	2	2007	CLA	CHD-C4C	3.29	1.46	1.39
21	A	9012	CLA	C1B-NB	-3.28	1.32	1.35
21	2	2011	CLA	CHD-C4C	3.28	1.46	1.39
21	2	2013	CLA	C3C-C2C	3.28	1.43	1.36
21	1	1009	CLA	MG-ND	-3.28	1.99	2.05
21	1	1006	CLA	C1B-NB	-3.28	1.32	1.35
21	2	2008	CLA	CHD-C4C	3.27	1.46	1.39
21	4	4011	CLA	CHD-C4C	3.27	1.46	1.39
21	B	1239	CLA	CHD-C1D	3.27	1.44	1.38
21	1	1004	CLA	C3C-C2C	3.27	1.43	1.36
21	1	1011	CLA	C1C-NC	-3.27	1.32	1.37
21	4	4009	CLA	CHD-C1D	3.26	1.44	1.38
21	3	3011	CLA	C1C-NC	-3.26	1.32	1.37
21	4	4006	CLA	C3B-C2B	3.26	1.44	1.40
21	G	1001	CLA	C1B-NB	-3.25	1.32	1.35
21	2	2007	CLA	MG-NC	3.25	2.14	2.06
21	2	2009	CLA	C1D-ND	-3.25	1.33	1.37
21	1	1006	CLA	MG-NC	3.25	2.14	2.06
21	4	4005	CLA	C1D-ND	-3.24	1.33	1.37
21	B	1225	CLA	C1D-ND	-3.23	1.33	1.37
21	2	2012	CLA	C3B-C2B	3.23	1.44	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	2002	CLA	OBD-CAD	3.23	1.28	1.22
21	1	1005	CLA	CHD-C4C	3.23	1.46	1.39
21	1	1012	CLA	CHD-C4C	3.22	1.46	1.39
21	3	3013	CLA	MG-NC	3.22	2.13	2.06
21	B	1226	CLA	C3B-C2B	3.22	1.44	1.40
21	1	1001	CLA	OBD-CAD	3.22	1.28	1.22
21	4	4002	CLA	CHD-C4C	3.22	1.46	1.39
21	L	1501	CLA	C1D-ND	-3.21	1.33	1.37
21	B	9010	CLA	C3C-C2C	3.20	1.43	1.36
21	A	1121	CLA	C1D-ND	-3.20	1.33	1.37
19	A	6007	BCR	C11-C12	-3.19	1.26	1.34
21	2	2007	CLA	C1C-NC	-3.19	1.33	1.37
21	4	4003	CLA	CHD-C4C	3.19	1.46	1.39
21	B	9022	CLA	CHD-C1D	3.18	1.44	1.38
19	A	6003	BCR	C11-C12	-3.18	1.26	1.34
21	4	4007	CLA	C1D-ND	-3.17	1.33	1.37
21	2	2010	CLA	MG-NC	3.17	2.13	2.06
21	G	1002	CLA	OBD-CAD	3.17	1.27	1.22
21	3	3009	CLA	C1C-NC	-3.17	1.33	1.37
21	4	4012	CLA	CHD-C1D	3.16	1.44	1.38
21	B	1213	CLA	OBD-CAD	3.15	1.27	1.22
21	2	2011	CLA	C3B-C2B	3.15	1.44	1.40
21	1	1008	CLA	C3B-C2B	3.15	1.44	1.40
21	A	9012	CLA	C4B-NB	-3.14	1.32	1.35
21	A	1131	CLA	MG-NC	3.14	2.13	2.06
21	1	1013	CLA	C3B-C2B	3.14	1.44	1.40
21	L	1502	CLA	C1D-ND	-3.14	1.33	1.37
21	2	2014	CLA	OBD-CAD	3.14	1.27	1.22
19	A	6011	BCR	C11-C12	-3.14	1.26	1.34
21	A	1130	CLA	C1D-ND	-3.14	1.33	1.37
21	4	4010	CLA	C3B-C2B	3.13	1.44	1.40
21	1	1001	CLA	CHD-C4C	3.13	1.46	1.39
21	B	1228	CLA	C3C-C2C	3.13	1.43	1.36
21	A	1131	CLA	C1C-NC	-3.13	1.33	1.37
21	F	1303	CLA	C3C-C2C	3.13	1.43	1.36
21	B	1223	CLA	OBD-CAD	3.13	1.27	1.22
21	2	2010	CLA	C1C-NC	-3.12	1.33	1.37
21	B	1240	CLA	C1B-NB	-3.12	1.32	1.35
21	2	2007	CLA	OBD-CAD	3.12	1.27	1.22
21	A	1132	CLA	MG-NC	3.12	2.13	2.06
21	B	1206	CLA	C1D-ND	-3.11	1.34	1.37
21	B	1227	CLA	CHD-C4C	3.11	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	2014	CLA	C1C-NC	-3.11	1.33	1.37
21	4	4003	CLA	MG-NC	3.10	2.13	2.06
21	1	1013	CLA	CHD-C4C	3.10	1.46	1.39
21	1	1001	CLA	C1B-NB	-3.10	1.32	1.35
21	A	1132	CLA	OBD-CAD	3.09	1.27	1.22
21	3	3013	CLA	C3D-C2D	3.09	1.47	1.39
21	2	2008	CLA	C1C-NC	-3.09	1.33	1.37
21	B	9010	CLA	CHD-C1D	3.09	1.44	1.38
21	1	1003	CLA	C3B-C2B	3.09	1.44	1.40
21	A	1133	CLA	MG-NC	3.09	2.13	2.06
21	1	1002	CLA	CHD-C4C	3.09	1.46	1.39
21	2	2014	CLA	MG-NC	3.08	2.13	2.06
21	B	1240	CLA	CHD-C4C	3.08	1.46	1.39
21	2	2003	CLA	MG-NC	3.08	2.13	2.06
21	3	3008	CLA	OBD-CAD	3.08	1.27	1.22
21	3	3009	CLA	CHD-C4C	3.08	1.46	1.39
21	A	9012	CLA	CHD-C1D	3.08	1.44	1.38
19	B	6010	BCR	C11-C12	-3.07	1.26	1.34
21	F	1303	CLA	CHD-C4C	3.07	1.46	1.39
21	1	1013	CLA	OBD-CAD	3.06	1.27	1.22
21	4	4010	CLA	OBD-CAD	3.06	1.27	1.22
21	A	1127	CLA	C1D-ND	-3.06	1.34	1.37
21	J	1302	CLA	C3D-C2D	3.06	1.47	1.39
21	G	1001	CLA	CHD-C4C	3.06	1.46	1.39
21	2	2001	CLA	C4B-NB	-3.05	1.32	1.35
21	1	1006	CLA	C1C-NC	-3.05	1.33	1.37
21	1	1007	CLA	CHD-C4C	3.05	1.46	1.39
19	B	6005	BCR	C11-C12	-3.05	1.26	1.34
19	J	6012	BCR	C11-C12	-3.05	1.26	1.34
21	B	1215	CLA	C3D-C2D	3.04	1.47	1.39
21	2	2013	CLA	C1B-NB	-3.04	1.32	1.35
21	4	4004	CLA	C1B-NB	-3.04	1.32	1.35
21	L	1503	CLA	C1D-ND	-3.04	1.34	1.37
21	4	4013	CLA	C1C-NC	-3.04	1.33	1.37
21	B	1226	CLA	C3C-C2C	3.04	1.43	1.36
21	A	1128	CLA	C1D-ND	-3.03	1.34	1.37
21	G	1002	CLA	CHD-C4C	3.03	1.46	1.39
21	3	3015	CLA	C3D-C2D	3.03	1.47	1.39
21	1	1002	CLA	OBD-CAD	3.03	1.27	1.22
21	F	1302	CLA	C3D-C2D	3.02	1.47	1.39
21	A	1110	CLA	C3D-C2D	3.02	1.47	1.39
21	A	1103	CLA	C3D-C2D	3.02	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	1	1009	CLA	MG-NC	3.02	2.13	2.06
21	2	2014	CLA	C3D-C2D	3.01	1.47	1.39
21	H	1000	CLA	C3D-C2D	3.01	1.47	1.39
21	3	3012	CLA	MG-NC	3.01	2.13	2.06
21	G	1001	CLA	OBD-CAD	3.01	1.27	1.22
21	4	4008	CLA	CHD-C4C	3.01	1.46	1.39
21	4	4001	CLA	C1B-NB	-3.01	1.32	1.35
21	B	1219	CLA	C3D-C2D	3.01	1.47	1.39
21	2	2013	CLA	CHD-C4C	3.01	1.46	1.39
21	3	3008	CLA	C1C-NC	-3.01	1.33	1.37
21	A	1120	CLA	C3D-C2D	3.00	1.47	1.39
21	A	1134	CLA	C3D-C2D	3.00	1.47	1.39
21	A	1119	CLA	C3D-C2D	3.00	1.47	1.39
21	1	1009	CLA	CHD-C4C	3.00	1.46	1.39
21	4	4004	CLA	MG-NC	3.00	2.13	2.06
21	A	1141	CLA	C3D-C2D	3.00	1.47	1.39
21	2	2002	CLA	C1C-NC	-3.00	1.33	1.37
21	2	2007	CLA	C1B-NB	-3.00	1.32	1.35
21	4	4013	CLA	CHD-C4C	3.00	1.46	1.39
21	A	1142	CLA	C3D-C2D	2.99	1.47	1.39
21	1	1001	CLA	MG-NC	2.99	2.13	2.06
21	B	1206	CLA	C3D-C2D	2.99	1.47	1.39
21	B	1212	CLA	C3D-C2D	2.99	1.47	1.39
21	4	4001	CLA	C3B-C2B	2.99	1.44	1.40
21	4	4009	CLA	C1B-NB	-2.99	1.32	1.35
21	G	1002	CLA	MG-NC	2.99	2.13	2.06
21	A	1114	CLA	C3D-C2D	2.99	1.47	1.39
21	A	1115	CLA	C1D-ND	-2.99	1.34	1.37
21	A	1101	CLA	C3D-C2D	2.99	1.47	1.39
21	3	3006	CLA	C3D-C2D	2.99	1.47	1.39
21	B	1234	CLA	C3D-C2D	2.98	1.47	1.39
21	A	1115	CLA	C3D-C2D	2.98	1.47	1.39
21	B	1221	CLA	C3D-C2D	2.98	1.47	1.39
21	2	2005	CLA	C1B-NB	-2.98	1.32	1.35
21	A	1106	CLA	C3D-C2D	2.98	1.47	1.39
21	A	1124	CLA	C3D-C2D	2.98	1.47	1.39
21	B	1229	CLA	C1D-ND	-2.98	1.34	1.37
21	A	1127	CLA	C3D-C2D	2.98	1.47	1.39
21	B	1216	CLA	C3D-C2D	2.98	1.47	1.39
21	A	1135	CLA	C3D-C2D	2.98	1.47	1.39
21	1	1004	CLA	MG-NC	2.98	2.13	2.06
21	A	1136	CLA	C3D-C2D	2.98	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1140	CLA	C3D-C2D	2.98	1.47	1.39
21	3	3016	CLA	C3D-C2D	2.98	1.47	1.39
21	A	1137	CLA	C3D-C2D	2.98	1.47	1.39
21	B	1221	CLA	C1D-ND	-2.98	1.34	1.37
21	3	3005	CLA	C3D-C2D	2.98	1.47	1.39
21	B	1214	CLA	C3D-C2D	2.97	1.47	1.39
21	1	1011	CLA	C1B-CHB	2.97	1.49	1.41
21	B	1229	CLA	C3D-C2D	2.97	1.47	1.39
21	A	1108	CLA	C3D-C2D	2.97	1.47	1.39
21	A	1116	CLA	C3D-C2D	2.97	1.47	1.39
21	1	1010	CLA	CHD-C4C	2.97	1.46	1.39
21	2	2003	CLA	C1C-NC	-2.97	1.33	1.37
21	B	1203	CLA	C3D-C2D	2.96	1.47	1.39
21	B	1224	CLA	C3D-C2D	2.96	1.47	1.39
21	2	2003	CLA	C4C-C3C	2.96	1.50	1.45
21	J	6014	CLA	C3D-C2D	2.96	1.47	1.39
21	B	1236	CLA	C3D-C2D	2.96	1.47	1.39
21	B	1237	CLA	C1D-ND	-2.96	1.34	1.37
21	A	1109	CLA	C3D-C2D	2.96	1.47	1.39
21	3	3014	CLA	C3D-C2D	2.96	1.47	1.39
21	A	1126	CLA	C3D-C2D	2.96	1.47	1.39
21	A	1117	CLA	C3D-C2D	2.95	1.47	1.39
21	A	1121	CLA	C3D-C2D	2.95	1.47	1.39
21	B	1235	CLA	C3D-C2D	2.95	1.47	1.39
21	4	4009	CLA	CHD-C4C	2.95	1.46	1.39
21	B	1222	CLA	C3D-C2D	2.95	1.47	1.39
21	2	2006	CLA	C3D-C2D	2.95	1.47	1.39
21	B	1231	CLA	C3D-C2D	2.95	1.47	1.39
21	A	1143	CLA	C3D-C2D	2.95	1.47	1.39
21	A	1130	CLA	C3D-C2D	2.95	1.47	1.39
21	B	1201	CLA	C3D-C2D	2.95	1.47	1.39
21	A	1128	CLA	C3D-C2D	2.94	1.47	1.39
21	L	1503	CLA	C3D-C2D	2.94	1.47	1.39
21	B	1228	CLA	CHD-C4C	2.94	1.45	1.39
21	A	9013	CLA	MG-NC	2.94	2.13	2.06
21	2	2009	CLA	OBD-CAD	2.94	1.27	1.22
21	F	1303	CLA	C3B-C2B	2.94	1.44	1.40
21	3	3002	CLA	C3D-C2D	2.94	1.47	1.39
21	A	1111	CLA	C3D-C2D	2.94	1.47	1.39
21	1	1010	CLA	MG-NC	2.93	2.13	2.06
21	B	1220	CLA	C3D-C2D	2.93	1.47	1.39
21	2	2011	CLA	C4B-NB	-2.93	1.32	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1129	CLA	C1D-ND	-2.93	1.34	1.37
21	3	3010	CLA	MG-NC	2.93	2.13	2.06
21	A	1105	CLA	C3D-C2D	2.93	1.47	1.39
21	B	1225	CLA	C3D-C2D	2.93	1.47	1.39
21	A	1131	CLA	OBD-CAD	2.93	1.27	1.22
21	4	4014	CLA	MG-NC	2.93	2.13	2.06
21	3	3003	CLA	C1D-ND	-2.93	1.34	1.37
21	3	3016	CLA	C4D-CHA	2.92	1.48	1.38
21	A	1138	CLA	C3D-C2D	2.92	1.47	1.39
21	A	1123	CLA	C1D-ND	-2.92	1.34	1.37
21	A	9012	CLA	MG-NC	2.92	2.13	2.06
21	B	1237	CLA	C3D-C2D	2.92	1.47	1.39
21	A	1113	CLA	C3D-C2D	2.92	1.47	1.39
21	4	4006	CLA	CHD-C4C	2.92	1.45	1.39
21	2	2014	CLA	C4D-CHA	2.92	1.48	1.38
21	2	2004	CLA	C4B-NB	-2.92	1.32	1.35
21	B	1207	CLA	C3D-C2D	2.92	1.47	1.39
21	J	6015	CLA	C1B-CHB	2.92	1.49	1.41
19	F	6014	BCR	C11-C12	-2.92	1.27	1.34
21	B	1218	CLA	C3D-C2D	2.92	1.47	1.39
21	B	1223	CLA	C4D-CHA	2.92	1.48	1.38
21	B	1204	CLA	C3D-C2D	2.92	1.47	1.39
21	A	1141	CLA	C1D-ND	-2.92	1.34	1.37
21	B	1217	CLA	C3D-C2D	2.91	1.47	1.39
21	L	1502	CLA	C3D-C2D	2.91	1.47	1.39
21	1	1008	CLA	CHD-C4C	2.91	1.45	1.39
21	B	9022	CLA	MG-NC	2.91	2.13	2.06
21	J	6015	CLA	MG-NC	2.91	2.13	2.06
21	B	1205	CLA	C3D-C2D	2.91	1.47	1.39
21	3	3011	CLA	C4B-CHC	2.91	1.49	1.41
21	B	9022	CLA	C3D-C2D	2.91	1.47	1.39
21	B	1213	CLA	MG-NC	2.91	2.13	2.06
21	B	1216	CLA	C1D-ND	-2.91	1.34	1.37
21	B	1220	CLA	C1D-ND	-2.91	1.34	1.37
21	B	1240	CLA	OBD-CAD	2.91	1.27	1.22
19	B	6009	BCR	C11-C12	-2.91	1.27	1.34
21	B	1238	CLA	C3D-C2D	2.91	1.47	1.39
21	B	1230	CLA	C3D-C2D	2.91	1.47	1.39
21	1	1014	CLA	C1C-NC	-2.90	1.33	1.37
21	A	1104	CLA	C3D-C2D	2.90	1.47	1.39
21	B	1236	CLA	C1D-ND	-2.90	1.34	1.37
21	1	1011	CLA	OBD-CAD	2.90	1.27	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1207	CLA	C1D-ND	-2.90	1.34	1.37
21	3	3014	CLA	C1D-ND	-2.90	1.34	1.37
21	F	1301	CLA	C3D-C2D	2.90	1.47	1.39
21	1	1014	CLA	C3D-C2D	2.89	1.47	1.39
21	B	1208	CLA	C3D-C2D	2.89	1.47	1.39
21	B	1211	CLA	C3D-C2D	2.89	1.47	1.39
21	1	1003	CLA	MG-NC	2.89	2.13	2.06
21	A	1126	CLA	C1D-ND	-2.89	1.34	1.37
21	3	3009	CLA	C4B-NB	-2.89	1.32	1.35
21	4	4013	CLA	MG-NC	2.89	2.13	2.06
21	4	4007	CLA	C1D-C2D	2.89	1.51	1.45
21	1	1005	CLA	MG-NC	2.89	2.13	2.06
21	4	4005	CLA	C1D-C2D	2.89	1.51	1.45
21	A	1139	CLA	C3D-C2D	2.88	1.47	1.39
21	A	1140	CLA	C1D-ND	-2.88	1.34	1.37
21	A	1122	CLA	C4D-CHA	2.88	1.48	1.38
21	A	1112	CLA	C3D-C2D	2.88	1.47	1.39
21	L	1501	CLA	C3D-C2D	2.88	1.47	1.39
21	A	1133	CLA	C1C-NC	-2.88	1.33	1.37
21	B	1224	CLA	C1D-ND	-2.88	1.34	1.37
21	A	1102	CLA	C3D-C2D	2.88	1.47	1.39
21	2	2002	CLA	C1B-NB	-2.88	1.32	1.35
21	2	2006	CLA	C1B-CHB	2.87	1.49	1.41
21	B	1202	CLA	C3D-C2D	2.87	1.47	1.39
21	B	1201	CLA	C4D-CHA	2.87	1.48	1.38
21	A	1122	CLA	C3D-C2D	2.87	1.47	1.39
21	B	1214	CLA	C1D-ND	-2.87	1.34	1.37
21	A	1125	CLA	CHD-C1D	2.87	1.44	1.38
21	A	1106	CLA	C1D-ND	-2.87	1.34	1.37
21	B	1210	CLA	C3D-C2D	2.87	1.47	1.39
26	1	1502	LUT	C1-C6	-2.87	1.49	1.53
21	B	1215	CLA	C1D-ND	-2.87	1.34	1.37
21	B	1209	CLA	C3D-C2D	2.87	1.46	1.39
21	3	3009	CLA	MG-NC	2.87	2.13	2.06
21	A	1117	CLA	C1D-ND	-2.87	1.34	1.37
21	B	1209	CLA	C1D-ND	-2.87	1.34	1.37
21	A	1129	CLA	C3D-C2D	2.87	1.46	1.39
21	A	1107	CLA	C1D-ND	-2.86	1.34	1.37
21	G	1001	CLA	MG-NC	2.86	2.13	2.06
21	2	2010	CLA	C1B-NB	-2.86	1.32	1.35
21	2	2004	CLA	MG-NC	2.86	2.13	2.06
21	A	1131	CLA	C3D-C2D	2.86	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1211	CLA	C1D-ND	-2.86	1.34	1.37
21	3	3003	CLA	C3D-C2D	2.86	1.46	1.39
21	B	1205	CLA	C1D-ND	-2.86	1.34	1.37
21	A	1107	CLA	C4B-CHC	2.85	1.48	1.41
21	2	2005	CLA	CHD-C4C	2.85	1.45	1.39
21	A	1102	CLA	C4D-CHA	2.85	1.48	1.38
21	B	1227	CLA	C3B-C2B	2.85	1.44	1.40
21	4	4012	CLA	CHD-C4C	2.85	1.45	1.39
21	B	1221	CLA	C4D-CHA	2.85	1.48	1.38
21	B	1222	CLA	C1D-ND	-2.85	1.34	1.37
21	A	1111	CLA	C4D-CHA	2.85	1.48	1.38
21	A	1123	CLA	C3D-C2D	2.85	1.46	1.39
21	B	1230	CLA	C1D-ND	-2.85	1.34	1.37
21	2	2008	CLA	MG-NC	2.85	2.13	2.06
21	1	1006	CLA	C3D-C2D	2.85	1.46	1.39
21	3	3008	CLA	MG-NC	2.85	2.13	2.06
21	A	1115	CLA	C4B-CHC	2.85	1.48	1.41
21	A	1118	CLA	C3D-C2D	2.85	1.46	1.39
21	B	1218	CLA	C1D-ND	-2.84	1.34	1.37
21	B	1202	CLA	C4D-CHA	2.84	1.48	1.38
21	B	1208	CLA	C1D-ND	-2.84	1.34	1.37
21	A	1141	CLA	C4B-CHC	2.84	1.48	1.41
21	4	4007	CLA	C1B-NB	-2.84	1.32	1.35
21	B	1226	CLA	O2D-CGD	2.84	1.40	1.33
21	F	1302	CLA	C1D-ND	-2.83	1.34	1.37
21	A	1113	CLA	C4D-CHA	2.83	1.48	1.38
21	A	1136	CLA	C1D-ND	-2.83	1.34	1.37
21	J	6015	CLA	C4C-C3C	2.83	1.49	1.45
21	A	1133	CLA	C3D-C2D	2.83	1.46	1.39
21	3	3011	CLA	MG-NC	2.83	2.13	2.06
21	4	4010	CLA	CHD-C4C	2.83	1.45	1.39
21	3	3001	CLA	C1D-ND	-2.83	1.34	1.37
21	1	1005	CLA	OBD-CAD	2.83	1.27	1.22
21	J	1302	CLA	C4D-CHA	2.83	1.48	1.38
26	1	1502	LUT	C5-C6	-2.82	1.29	1.34
21	4	4004	CLA	C3B-C2B	2.82	1.44	1.40
21	A	1124	CLA	C1D-ND	-2.82	1.34	1.37
21	B	1227	CLA	MG-NC	2.82	2.13	2.06
21	B	1235	CLA	C1D-ND	-2.82	1.34	1.37
21	4	4007	CLA	C3D-C2D	2.82	1.46	1.39
21	A	1138	CLA	C1D-ND	-2.82	1.34	1.37
21	G	1002	CLA	C4B-NB	-2.82	1.32	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	3005	CLA	C4D-CHA	2.82	1.48	1.38
21	3	3010	CLA	C3D-C2D	2.82	1.46	1.39
21	A	1122	CLA	C4B-CHC	2.82	1.48	1.41
21	A	1103	CLA	C1D-ND	-2.82	1.34	1.37
21	L	1501	CLA	C1B-CHB	2.82	1.48	1.41
21	A	1125	CLA	MG-NC	2.81	2.12	2.06
21	A	1108	CLA	C1D-ND	-2.81	1.34	1.37
21	3	3004	CLA	C3D-C2D	2.81	1.46	1.39
21	A	1117	CLA	C4D-CHA	2.81	1.48	1.38
21	L	1503	CLA	C1B-CHB	2.81	1.48	1.41
21	A	1101	CLA	C4D-CHA	2.80	1.48	1.38
21	A	1106	CLA	C4D-CHA	2.80	1.48	1.38
21	B	1208	CLA	C4B-CHC	2.80	1.48	1.41
21	B	1215	CLA	C4D-CHA	2.80	1.48	1.38
21	A	1116	CLA	C4B-CHC	2.80	1.48	1.41
19	A	6008	BCR	C11-C12	-2.80	1.27	1.34
21	2	2012	CLA	OBD-CAD	2.80	1.27	1.22
21	B	9022	CLA	CHD-C4C	2.80	1.45	1.39
21	A	1109	CLA	C4D-CHA	2.80	1.48	1.38
21	A	1132	CLA	C3D-C2D	2.80	1.46	1.39
21	4	4015	CLA	MG-NC	2.80	2.12	2.06
21	A	9013	CLA	C3D-C2D	2.80	1.46	1.39
21	1	1014	CLA	C1B-CHB	2.80	1.48	1.41
21	B	1210	CLA	C1D-ND	-2.79	1.34	1.37
21	B	1207	CLA	C4D-CHA	2.79	1.48	1.38
21	A	1137	CLA	C4D-CHA	2.79	1.48	1.38
21	4	4006	CLA	CHD-C1D	2.79	1.43	1.38
21	B	1209	CLA	C4B-CHC	2.79	1.48	1.41
21	B	1231	CLA	C1D-ND	-2.79	1.34	1.37
21	A	1114	CLA	C4D-CHA	2.79	1.48	1.38
27	4	4503	NEX	C12-C13	2.79	1.51	1.45
21	A	1143	CLA	C4D-CHA	2.79	1.48	1.38
21	3	3015	CLA	C1D-ND	-2.79	1.34	1.37
21	A	1103	CLA	C4D-CHA	2.79	1.48	1.38
21	1	1012	CLA	MG-NC	2.79	2.12	2.06
21	2	2005	CLA	C4B-NB	-2.78	1.32	1.35
21	3	3006	CLA	C4D-CHA	2.78	1.48	1.38
21	1	1011	CLA	MG-NC	2.78	2.12	2.06
21	A	1120	CLA	C4D-CHA	2.78	1.48	1.38
21	B	1204	CLA	C1D-ND	-2.78	1.34	1.37
21	1	1005	CLA	C1B-NB	-2.78	1.32	1.35
21	F	1301	CLA	C4D-CHA	2.78	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1118	CLA	C1D-ND	-2.78	1.34	1.37
21	A	1142	CLA	C4D-CHA	2.78	1.48	1.38
21	B	1212	CLA	C4D-CHA	2.78	1.48	1.38
23	A	9011	CL0	CHD-C4C	2.78	1.45	1.39
21	A	1126	CLA	C4D-CHA	2.78	1.48	1.38
21	A	1123	CLA	C4D-CHA	2.78	1.48	1.38
21	A	1118	CLA	C1B-CHB	2.78	1.48	1.41
21	4	4008	CLA	C4D-CHA	2.78	1.48	1.38
21	2	2004	CLA	CBD-CGD	-2.78	1.46	1.52
21	B	1223	CLA	C3D-C2D	2.78	1.46	1.39
21	B	1217	CLA	C1D-ND	-2.78	1.34	1.37
21	B	1201	CLA	C1D-ND	-2.78	1.34	1.37
21	A	1138	CLA	C4D-CHA	2.77	1.48	1.38
21	B	1238	CLA	C1D-ND	-2.77	1.34	1.37
21	A	1139	CLA	C4D-CHA	2.77	1.48	1.38
21	A	1102	CLA	C1D-ND	-2.77	1.34	1.37
21	B	1219	CLA	C1D-ND	-2.77	1.34	1.37
21	B	1206	CLA	C4D-CHA	2.77	1.48	1.38
21	A	1118	CLA	C4D-CHA	2.77	1.48	1.38
21	B	1209	CLA	C4D-CHA	2.77	1.48	1.38
21	A	1115	CLA	C4D-CHA	2.77	1.48	1.38
21	A	1108	CLA	C4D-CHA	2.77	1.48	1.38
21	B	9023	CLA	OBD-CAD	2.77	1.27	1.22
21	4	4002	CLA	MG-NC	2.77	2.12	2.06
21	A	1124	CLA	C4D-CHA	2.77	1.48	1.38
21	4	4003	CLA	C3D-C2D	2.76	1.46	1.39
21	B	1226	CLA	OBD-CAD	2.76	1.27	1.22
21	L	1501	CLA	C4D-CHA	2.76	1.48	1.38
21	2	2002	CLA	C4B-NB	-2.76	1.32	1.35
21	A	1104	CLA	C4D-CHA	2.76	1.48	1.38
21	B	1234	CLA	C1D-ND	-2.76	1.34	1.37
21	B	1203	CLA	C4D-CHA	2.76	1.48	1.38
21	3	3002	CLA	C4D-CHA	2.76	1.48	1.38
21	B	1217	CLA	C4D-CHA	2.76	1.48	1.38
21	4	4011	CLA	C3C-C2C	2.76	1.42	1.36
21	B	9023	CLA	MG-NC	2.76	2.12	2.06
21	A	1116	CLA	C1D-ND	-2.76	1.34	1.37
21	F	1301	CLA	C1D-ND	-2.76	1.34	1.37
21	B	1205	CLA	C4D-CHA	2.76	1.48	1.38
21	3	3001	CLA	C3D-C2D	2.76	1.46	1.39
21	A	1121	CLA	C4D-CHA	2.76	1.48	1.38
21	A	1132	CLA	C4B-NB	-2.76	1.32	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1116	CLA	C4D-CHA	2.76	1.48	1.38
21	3	3012	CLA	C1D-C2D	2.75	1.50	1.45
21	3	3004	CLA	C4D-CHA	2.75	1.48	1.38
21	2	2013	CLA	MG-NC	2.75	2.12	2.06
21	A	1105	CLA	C4D-CHA	2.75	1.48	1.38
21	A	1140	CLA	C4D-CHA	2.75	1.48	1.38
21	H	1000	CLA	C4D-CHA	2.75	1.48	1.38
21	F	1302	CLA	C4D-CHA	2.75	1.48	1.38
21	A	1134	CLA	C4D-CHA	2.75	1.48	1.38
21	4	4001	CLA	OBD-CAD	2.75	1.27	1.22
21	2	2007	CLA	C4B-NB	-2.75	1.32	1.35
21	A	1112	CLA	C4D-CHA	2.75	1.48	1.38
21	L	1503	CLA	C4D-CHA	2.75	1.48	1.38
21	A	1110	CLA	C4D-CHA	2.75	1.48	1.38
21	B	1230	CLA	C4D-CHA	2.75	1.48	1.38
21	4	4009	CLA	OBD-CAD	2.74	1.27	1.22
21	A	1126	CLA	C4B-CHC	2.74	1.48	1.41
21	4	4005	CLA	OBD-CAD	2.74	1.27	1.22
21	3	3001	CLA	C4D-CHA	2.74	1.48	1.38
21	A	1129	CLA	C1B-CHB	2.74	1.48	1.41
21	J	6014	CLA	C1D-ND	-2.74	1.34	1.37
21	3	3006	CLA	C1D-ND	-2.74	1.34	1.37
21	B	1210	CLA	C4D-CHA	2.74	1.48	1.38
21	A	1105	CLA	C4B-CHC	2.74	1.48	1.41
21	3	3014	CLA	C4D-CHA	2.73	1.48	1.38
21	3	3002	CLA	C1D-ND	-2.73	1.34	1.37
21	B	1212	CLA	C1D-ND	-2.73	1.34	1.37
21	B	1214	CLA	C4D-CHA	2.73	1.48	1.38
21	B	1238	CLA	C4B-CHC	2.73	1.48	1.41
21	B	1234	CLA	C4D-CHA	2.73	1.48	1.38
21	A	1128	CLA	C4D-CHA	2.73	1.48	1.38
21	A	1134	CLA	C1D-ND	-2.73	1.34	1.37
21	A	1127	CLA	C4D-CHA	2.73	1.48	1.38
21	B	1236	CLA	C4D-CHA	2.73	1.48	1.38
21	A	1104	CLA	C1D-ND	-2.73	1.34	1.37
21	A	1111	CLA	C1D-ND	-2.73	1.34	1.37
21	J	1302	CLA	C1D-ND	-2.73	1.34	1.37
21	B	1238	CLA	C4D-CHA	2.73	1.48	1.38
21	A	1119	CLA	C4D-CHA	2.73	1.48	1.38
21	A	1104	CLA	C4B-CHC	2.73	1.48	1.41
21	A	1119	CLA	C1D-ND	-2.73	1.34	1.37
21	B	1216	CLA	C4D-CHA	2.73	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1120	CLA	C1D-ND	-2.73	1.34	1.37
21	3	3003	CLA	C4B-CHC	2.73	1.48	1.41
21	A	1110	CLA	C1D-ND	-2.73	1.34	1.37
21	A	1106	CLA	C4B-CHC	2.73	1.48	1.41
19	A	6017	BCR	C11-C12	-2.72	1.27	1.34
21	A	1112	CLA	C4B-CHC	2.72	1.48	1.41
21	H	1000	CLA	C1D-ND	-2.72	1.34	1.37
21	4	4008	CLA	OBD-CAD	2.72	1.27	1.22
21	A	1105	CLA	C1D-ND	-2.72	1.34	1.37
21	2	2002	CLA	MG-NC	2.72	2.12	2.06
21	1	1007	CLA	C4B-CHC	2.72	1.48	1.41
21	B	1224	CLA	C4D-CHA	2.72	1.48	1.38
21	B	1237	CLA	C4D-CHA	2.72	1.48	1.38
21	A	1129	CLA	C4B-CHC	2.72	1.48	1.41
21	3	3017	CLA	C1D-C2D	2.72	1.50	1.45
21	A	1136	CLA	C4D-CHA	2.71	1.48	1.38
21	B	9023	CLA	C3B-C2B	2.71	1.44	1.40
21	A	1113	CLA	C4B-CHC	2.71	1.48	1.41
21	B	1219	CLA	C4D-CHA	2.71	1.48	1.38
21	4	4002	CLA	C1B-CHB	2.71	1.48	1.41
21	B	1213	CLA	C3D-C2D	2.71	1.46	1.39
21	1	1003	CLA	C3D-C2D	2.71	1.46	1.39
21	B	1218	CLA	C4B-CHC	2.71	1.48	1.41
21	3	3015	CLA	C4B-CHC	2.71	1.48	1.41
21	B	1211	CLA	C4D-CHA	2.71	1.48	1.38
21	B	1220	CLA	C4D-CHA	2.71	1.48	1.38
21	A	1121	CLA	C1B-CHB	2.71	1.48	1.41
21	A	1140	CLA	C4B-CHC	2.71	1.48	1.41
21	2	2005	CLA	MG-NC	2.71	2.12	2.06
21	J	6014	CLA	C4D-CHA	2.71	1.48	1.38
21	4	4014	CLA	C3D-C2D	2.71	1.46	1.39
21	B	1220	CLA	C4B-CHC	2.71	1.48	1.41
21	A	1143	CLA	C1D-ND	-2.71	1.34	1.37
21	4	4015	CLA	CHD-C4C	2.71	1.45	1.39
21	2	2009	CLA	C3D-C2D	2.71	1.46	1.39
21	B	1219	CLA	C4B-CHC	2.71	1.48	1.41
21	B	1203	CLA	C1D-ND	-2.71	1.34	1.37
21	A	1135	CLA	C1D-ND	-2.71	1.34	1.37
21	1	1010	CLA	C4B-NB	-2.70	1.32	1.35
21	3	3015	CLA	C4D-CHA	2.70	1.48	1.38
21	A	1127	CLA	C4B-CHC	2.70	1.48	1.41
21	A	1113	CLA	C1D-ND	-2.70	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1201	CLA	C4B-CHC	2.70	1.48	1.41
21	L	1502	CLA	C1B-CHB	2.70	1.48	1.41
21	B	1204	CLA	C4B-CHC	2.70	1.48	1.41
21	4	4012	CLA	C3B-C2B	2.70	1.44	1.40
21	J	6015	CLA	C3D-C2D	2.70	1.46	1.39
21	B	1235	CLA	C4D-CHA	2.70	1.48	1.38
21	A	1102	CLA	C4B-CHC	2.70	1.48	1.41
21	A	1121	CLA	C4B-CHC	2.70	1.48	1.41
21	B	1204	CLA	C4D-CHA	2.70	1.48	1.38
21	B	1203	CLA	C4B-CHC	2.70	1.48	1.41
21	1	1003	CLA	OBD-CAD	2.70	1.27	1.22
21	A	1131	CLA	C1B-NB	-2.70	1.32	1.35
21	B	1223	CLA	C1D-ND	-2.70	1.34	1.37
21	3	3005	CLA	C1D-ND	-2.70	1.34	1.37
21	B	1229	CLA	C4B-CHC	2.70	1.48	1.41
21	3	3006	CLA	C4B-CHC	2.70	1.48	1.41
21	3	3005	CLA	C4B-CHC	2.69	1.48	1.41
21	A	1122	CLA	C1D-C2D	2.69	1.50	1.45
21	H	1000	CLA	C1B-CHB	2.69	1.48	1.41
21	A	1130	CLA	C4D-CHA	2.69	1.48	1.38
21	A	1142	CLA	C1D-ND	-2.69	1.34	1.37
21	A	1139	CLA	C4B-CHC	2.69	1.48	1.41
21	B	1235	CLA	C4B-CHC	2.69	1.48	1.41
21	A	1141	CLA	C4D-CHA	2.69	1.48	1.38
21	B	1229	CLA	C1B-CHB	2.69	1.48	1.41
21	A	1128	CLA	C1B-CHB	2.69	1.48	1.41
21	A	1120	CLA	C4B-CHC	2.69	1.48	1.41
21	A	1135	CLA	C4D-CHA	2.69	1.48	1.38
21	B	1208	CLA	C4D-CHA	2.69	1.48	1.38
21	4	4004	CLA	C4B-NB	-2.69	1.32	1.35
21	F	1302	CLA	C4B-CHC	2.69	1.48	1.41
21	A	1129	CLA	C4D-CHA	2.69	1.47	1.38
21	B	1222	CLA	C4D-CHA	2.69	1.47	1.38
21	B	1210	CLA	C4B-CHC	2.69	1.48	1.41
21	3	3010	CLA	C4B-CHC	2.69	1.48	1.41
21	L	1502	CLA	C4B-CHC	2.68	1.48	1.41
21	A	1130	CLA	C1B-CHB	2.68	1.48	1.41
21	B	1208	CLA	C1B-CHB	2.68	1.48	1.41
21	A	1123	CLA	C4B-CHC	2.68	1.48	1.41
21	4	4011	CLA	MG-NC	2.68	2.12	2.06
21	1	1007	CLA	C1B-CHB	2.68	1.48	1.41
21	A	1139	CLA	C1D-ND	-2.68	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1109	CLA	C1C-NC	-2.68	1.33	1.37
21	J	6014	CLA	C4B-CHC	2.68	1.48	1.41
21	3	3017	CLA	C4B-CHC	2.68	1.48	1.41
21	2	2002	CLA	C4C-C3C	2.68	1.49	1.45
21	A	1114	CLA	C4B-CHC	2.67	1.48	1.41
21	2	2007	CLA	C3D-C2D	2.67	1.46	1.39
21	2	2007	CLA	C1B-CHB	2.67	1.48	1.41
21	3	3004	CLA	C4B-CHC	2.67	1.48	1.41
21	L	1502	CLA	C4D-CHA	2.67	1.47	1.38
21	A	1112	CLA	C1D-ND	-2.67	1.34	1.37
21	B	1234	CLA	C4B-CHC	2.67	1.48	1.41
21	A	1125	CLA	CHD-C4C	2.67	1.45	1.39
21	B	9023	CLA	CHD-C4C	2.67	1.45	1.39
21	A	1143	CLA	C4B-CHC	2.67	1.48	1.41
21	F	1301	CLA	C4B-CHC	2.67	1.48	1.41
21	B	1214	CLA	C4B-CHC	2.67	1.48	1.41
21	3	3002	CLA	C4B-CHC	2.67	1.48	1.41
21	1	1007	CLA	MG-NC	2.67	2.12	2.06
21	A	1107	CLA	C1B-CHB	2.67	1.48	1.41
21	A	1136	CLA	C4B-CHC	2.66	1.48	1.41
21	A	1138	CLA	C4B-CHC	2.66	1.48	1.41
21	4	4007	CLA	OBD-CAD	2.66	1.27	1.22
21	B	1225	CLA	C4B-CHC	2.66	1.48	1.41
21	B	1225	CLA	C4D-CHA	2.66	1.47	1.38
21	B	1210	CLA	C1C-NC	-2.66	1.33	1.37
21	A	1109	CLA	C1D-ND	-2.66	1.34	1.37
21	B	1231	CLA	C4B-CHC	2.66	1.48	1.41
21	3	3016	CLA	C1D-ND	-2.66	1.34	1.37
21	B	1230	CLA	C4B-CHC	2.66	1.48	1.41
21	3	3016	CLA	C4B-CHC	2.66	1.48	1.41
21	B	1226	CLA	CHD-C4C	2.66	1.45	1.39
21	B	1218	CLA	C4D-CHA	2.66	1.47	1.38
21	B	1205	CLA	C4B-CHC	2.66	1.48	1.41
21	1	1010	CLA	C4D-CHA	2.66	1.47	1.38
21	A	1108	CLA	C4B-CHC	2.66	1.48	1.41
21	B	1202	CLA	C4B-CHC	2.66	1.48	1.41
21	A	1142	CLA	C4B-CHC	2.66	1.48	1.41
21	3	3014	CLA	C1D-C2D	2.66	1.50	1.45
21	B	1227	CLA	OBD-CAD	2.65	1.27	1.22
21	A	1114	CLA	C1D-ND	-2.65	1.34	1.37
21	A	1137	CLA	C4B-CHC	2.65	1.48	1.41
19	I	6018	BCR	C11-C12	-2.65	1.27	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	1	1013	CLA	C4B-CHC	2.65	1.48	1.41
21	3	3004	CLA	C1D-ND	-2.65	1.34	1.37
21	A	1137	CLA	C1D-ND	-2.65	1.34	1.37
21	B	1222	CLA	C4B-CHC	2.65	1.48	1.41
21	B	1224	CLA	C4B-CHC	2.65	1.48	1.41
21	B	1229	CLA	C4D-CHA	2.65	1.47	1.38
21	B	1211	CLA	C4B-CHC	2.65	1.48	1.41
21	B	1231	CLA	C4D-CHA	2.65	1.47	1.38
21	3	3017	CLA	C4D-CHA	2.64	1.47	1.38
21	3	3001	CLA	C4B-CHC	2.64	1.48	1.41
21	A	1109	CLA	C4B-CHC	2.64	1.48	1.41
21	A	1130	CLA	C4B-CHC	2.64	1.48	1.41
21	3	3010	CLA	C1C-NC	-2.64	1.33	1.37
21	A	1134	CLA	C4B-CHC	2.64	1.48	1.41
21	A	1124	CLA	C4B-CHC	2.64	1.48	1.41
21	B	1236	CLA	C4B-CHC	2.64	1.48	1.41
21	A	1103	CLA	C4B-CHC	2.64	1.48	1.41
21	B	1203	CLA	C1B-CHB	2.63	1.48	1.41
21	A	1107	CLA	C4D-CHA	2.63	1.47	1.38
21	A	1123	CLA	C1B-CHB	2.63	1.48	1.41
21	B	1223	CLA	C1B-CHB	2.63	1.48	1.41
21	2	2001	CLA	C1C-NC	-2.63	1.32	1.38
21	3	3003	CLA	C1B-CHB	2.63	1.48	1.41
21	B	1223	CLA	C4B-CHC	2.63	1.48	1.41
21	2	2006	CLA	C4D-CHA	2.63	1.47	1.38
21	L	1501	CLA	C4B-CHC	2.63	1.48	1.41
21	B	1218	CLA	C1B-CHB	2.63	1.48	1.41
21	4	4014	CLA	C4B-CHC	2.62	1.48	1.41
21	B	9010	CLA	C3D-C2D	2.62	1.46	1.39
21	B	1225	CLA	C1B-CHB	2.62	1.48	1.41
21	4	4014	CLA	C1B-CHB	2.62	1.48	1.41
21	2	2011	CLA	C3D-C2D	2.62	1.46	1.39
21	1	1006	CLA	C1B-CHB	2.62	1.48	1.41
21	3	3008	CLA	C3D-C2D	2.62	1.46	1.39
21	2	2013	CLA	OBD-CAD	2.62	1.27	1.22
21	B	1212	CLA	C4B-CHC	2.62	1.48	1.41
21	4	4007	CLA	C1C-NC	-2.62	1.33	1.37
21	G	1002	CLA	C1B-NB	-2.62	1.32	1.35
21	A	1101	CLA	C4B-CHC	2.62	1.48	1.41
21	B	1213	CLA	C4B-NB	-2.62	1.32	1.35
21	3	3008	CLA	C1D-C2D	2.62	1.50	1.45
21	2	2011	CLA	MG-NC	2.62	2.12	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	4	4502	LUT	C21-C26	-2.62	1.49	1.56
21	B	1221	CLA	C4B-CHC	2.62	1.48	1.41
21	A	1113	CLA	C1B-CHB	2.62	1.48	1.41
21	A	1128	CLA	C4B-CHC	2.62	1.48	1.41
21	3	3013	CLA	C1D-C2D	2.61	1.50	1.45
21	J	6014	CLA	C1B-CHB	2.61	1.48	1.41
21	1	1009	CLA	OBD-CAD	2.61	1.27	1.22
21	3	3015	CLA	C1B-CHB	2.61	1.48	1.41
21	B	1234	CLA	C1B-CHB	2.61	1.48	1.41
21	B	1202	CLA	C1D-ND	-2.61	1.34	1.37
21	A	1119	CLA	C4B-CHC	2.61	1.48	1.41
21	B	1230	CLA	C1B-CHB	2.61	1.48	1.41
21	2	2009	CLA	MG-NC	2.61	2.12	2.06
23	A	9011	CL0	MG-NC	2.60	2.12	2.06
21	A	1105	CLA	C1B-CHB	2.60	1.48	1.41
21	3	3004	CLA	C1B-CHB	2.60	1.48	1.41
21	A	1134	CLA	C1B-CHB	2.60	1.48	1.41
21	A	1140	CLA	C1B-CHB	2.60	1.48	1.41
21	3	3013	CLA	C1B-CHB	2.60	1.48	1.41
21	3	3003	CLA	C4D-CHA	2.60	1.47	1.38
21	B	1206	CLA	C1B-CHB	2.60	1.48	1.41
21	1	1006	CLA	C4B-NB	-2.60	1.32	1.35
21	4	4003	CLA	C1B-CHB	2.60	1.48	1.41
21	A	1104	CLA	C1B-CHB	2.60	1.48	1.41
21	B	1231	CLA	C1B-CHB	2.60	1.48	1.41
21	1	1006	CLA	C4D-CHA	2.60	1.47	1.38
21	A	1135	CLA	C4B-CHC	2.60	1.48	1.41
21	J	1302	CLA	C4B-CHC	2.59	1.48	1.41
21	1	1005	CLA	C1B-CHB	2.59	1.48	1.41
21	B	1209	CLA	C1B-CHB	2.59	1.48	1.41
21	A	1117	CLA	C4B-CHC	2.59	1.48	1.41
21	1	1014	CLA	C4D-CHA	2.59	1.47	1.38
21	A	1111	CLA	C4B-CHC	2.59	1.48	1.41
21	A	1110	CLA	C1C-NC	-2.59	1.33	1.37
21	3	3006	CLA	C1D-C2D	2.59	1.50	1.45
21	3	3017	CLA	C1B-CHB	2.59	1.48	1.41
21	B	1217	CLA	C1B-CHB	2.59	1.48	1.41
21	F	1301	CLA	C1C-NC	-2.59	1.33	1.37
21	B	1216	CLA	C4B-CHC	2.59	1.48	1.41
21	B	1204	CLA	C1B-CHB	2.58	1.48	1.41
21	A	1141	CLA	C1D-C2D	2.58	1.50	1.45
21	3	3004	CLA	C1D-C2D	2.58	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	3012	CLA	C1B-NB	-2.58	1.32	1.35
21	A	1101	CLA	C1D-ND	-2.58	1.34	1.37
21	A	1141	CLA	C1B-CHB	2.58	1.48	1.41
21	B	1228	CLA	C2A-C1A	-2.58	1.46	1.52
21	B	1210	CLA	C1B-CHB	2.58	1.48	1.41
21	B	1237	CLA	C4B-CHC	2.58	1.48	1.41
21	2	2003	CLA	C1D-C2D	2.58	1.50	1.45
21	4	4011	CLA	OBD-CAD	2.58	1.26	1.22
21	2	2006	CLA	C1D-C2D	2.58	1.50	1.45
21	B	1237	CLA	C1B-CHB	2.58	1.48	1.41
21	H	1000	CLA	C1D-C2D	2.58	1.50	1.45
21	A	9012	CLA	OBD-CAD	2.58	1.26	1.22
21	1	1013	CLA	MG-NC	2.57	2.12	2.06
21	A	1135	CLA	C1B-CHB	2.57	1.48	1.41
21	A	1142	CLA	C1B-CHB	2.57	1.48	1.41
21	A	1143	CLA	C1B-CHB	2.57	1.48	1.41
21	B	1214	CLA	C1B-CHB	2.57	1.48	1.41
21	3	3005	CLA	C1B-CHB	2.57	1.48	1.41
21	B	1205	CLA	C1B-CHB	2.57	1.48	1.41
21	B	1221	CLA	C1B-CHB	2.57	1.48	1.41
21	B	1228	CLA	OBD-CAD	2.57	1.26	1.22
21	3	3015	CLA	C1D-C2D	2.57	1.50	1.45
21	F	1302	CLA	C1B-CHB	2.57	1.48	1.41
21	B	1231	CLA	C1D-C2D	2.57	1.50	1.45
21	A	1107	CLA	C3D-C2D	2.57	1.46	1.39
21	A	1110	CLA	C1D-C2D	2.57	1.50	1.45
21	B	1218	CLA	C1D-C2D	2.57	1.50	1.45
21	A	1133	CLA	C4D-CHA	2.56	1.47	1.38
21	B	1236	CLA	C1B-CHB	2.56	1.48	1.41
21	3	3011	CLA	C3D-C2D	2.56	1.46	1.39
21	A	1119	CLA	C1D-C2D	2.56	1.50	1.45
21	3	3009	CLA	C1B-CHB	2.56	1.48	1.41
21	2	2001	CLA	C1B-NB	-2.56	1.32	1.35
21	B	1215	CLA	C4B-CHC	2.56	1.48	1.41
21	A	1115	CLA	C1B-CHB	2.56	1.48	1.41
26	1	1501	LUT	C1-C6	-2.56	1.50	1.53
21	B	1217	CLA	C4B-CHC	2.56	1.48	1.41
21	A	1108	CLA	C1D-C2D	2.56	1.50	1.45
21	3	3012	CLA	C3D-C2D	2.56	1.46	1.39
21	A	1114	CLA	C1D-C2D	2.56	1.50	1.45
21	4	4014	CLA	C1D-C2D	2.55	1.50	1.45
21	1	1013	CLA	C4D-CHA	2.55	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	J	6015	CLA	C1C-NC	-2.55	1.34	1.37
21	2	2003	CLA	C1B-CHB	2.55	1.48	1.41
21	4	4004	CLA	C3D-C2D	2.55	1.46	1.39
21	B	1212	CLA	C1B-CHB	2.55	1.48	1.41
26	4	4501	LUT	C21-C26	-2.55	1.49	1.56
21	B	1204	CLA	C1D-C2D	2.55	1.50	1.45
21	2	2010	CLA	C4B-CHC	2.55	1.48	1.41
21	A	1103	CLA	C1D-C2D	2.55	1.50	1.45
21	A	1112	CLA	C1B-CHB	2.55	1.48	1.41
21	B	1212	CLA	C1D-C2D	2.55	1.50	1.45
21	A	1101	CLA	C1D-C2D	2.54	1.50	1.45
21	A	1142	CLA	C1D-C2D	2.54	1.50	1.45
21	2	2002	CLA	C3D-C2D	2.54	1.46	1.39
21	J	1302	CLA	C1D-C2D	2.54	1.50	1.45
21	2	2013	CLA	C3D-C2D	2.54	1.46	1.39
21	2	2012	CLA	C3D-C2D	2.54	1.46	1.39
21	A	1114	CLA	C1B-CHB	2.54	1.48	1.41
21	2	2009	CLA	C4D-CHA	2.54	1.47	1.38
21	A	1137	CLA	C1D-C2D	2.54	1.50	1.45
21	A	1139	CLA	C1C-NC	-2.54	1.34	1.37
21	1	1008	CLA	C3D-C2D	2.54	1.46	1.39
21	A	1134	CLA	C1D-C2D	2.54	1.50	1.45
21	4	4007	CLA	C4B-CHC	2.54	1.48	1.41
21	1	1012	CLA	C1B-CHB	2.54	1.48	1.41
21	1	1003	CLA	C4D-CHA	2.54	1.47	1.38
21	A	1139	CLA	C1D-C2D	2.54	1.50	1.45
21	A	1136	CLA	C1B-CHB	2.54	1.48	1.41
21	A	1120	CLA	C1D-C2D	2.54	1.50	1.45
21	3	3017	CLA	C1D-ND	-2.54	1.34	1.37
21	3	3006	CLA	C1B-CHB	2.54	1.48	1.41
21	A	1109	CLA	C1D-C2D	2.54	1.50	1.45
21	B	1215	CLA	C1B-CHB	2.53	1.48	1.41
21	A	9013	CLA	C4D-CHA	2.53	1.47	1.38
21	4	4006	CLA	C4B-NB	-2.53	1.32	1.35
21	F	1301	CLA	C1B-CHB	2.53	1.48	1.41
21	A	1120	CLA	C1B-CHB	2.53	1.48	1.41
21	B	1202	CLA	C1B-CHB	2.53	1.48	1.41
21	A	1117	CLA	C1B-CHB	2.53	1.48	1.41
21	3	3013	CLA	C4D-CHA	2.53	1.47	1.38
21	F	1303	CLA	O2A-CGA	-2.53	1.31	1.42
21	3	3010	CLA	C4D-CHA	2.53	1.47	1.38
21	B	1207	CLA	C1B-CHB	2.52	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1138	CLA	C1D-C2D	2.52	1.50	1.45
23	A	9011	CL0	C3C-C2C	2.52	1.42	1.36
21	L	1503	CLA	C4B-CHC	2.52	1.48	1.41
21	3	3016	CLA	C1B-CHB	2.52	1.48	1.41
21	3	3008	CLA	C4D-CHA	2.52	1.47	1.38
21	B	1220	CLA	C1B-CHB	2.52	1.48	1.41
21	B	1240	CLA	C1B-CHB	2.52	1.48	1.41
21	A	1143	CLA	C1D-C2D	2.52	1.50	1.45
21	B	1211	CLA	C1B-CHB	2.52	1.48	1.41
21	4	4013	CLA	C3D-C2D	2.52	1.46	1.39
21	B	1213	CLA	C4B-CHC	2.52	1.48	1.41
21	A	1140	CLA	C1D-C2D	2.52	1.50	1.45
21	3	3001	CLA	C1B-CHB	2.52	1.48	1.41
21	3	3009	CLA	C1B-NB	-2.52	1.33	1.35
21	B	1219	CLA	C1C-NC	-2.52	1.34	1.37
21	2	2014	CLA	C4C-C3C	2.52	1.49	1.45
21	4	4005	CLA	C3D-C2D	2.51	1.46	1.39
27	4	4503	NEX	O24-C25	-2.51	1.42	1.46
21	A	1124	CLA	C1B-CHB	2.51	1.48	1.41
21	B	1235	CLA	C1B-CHB	2.51	1.48	1.41
21	J	6015	CLA	C1D-C2D	2.51	1.50	1.45
21	B	1222	CLA	C1D-C2D	2.51	1.50	1.45
21	B	1208	CLA	C1D-C2D	2.51	1.50	1.45
21	A	1139	CLA	C1B-CHB	2.51	1.48	1.41
21	A	1117	CLA	C1D-C2D	2.51	1.50	1.45
21	B	1223	CLA	C1C-NC	-2.51	1.34	1.37
21	B	1217	CLA	C1C-NC	-2.51	1.34	1.37
21	2	2011	CLA	C2A-C1A	-2.51	1.46	1.52
21	H	1000	CLA	C4C-C3C	2.51	1.49	1.45
21	B	1235	CLA	C1D-C2D	2.51	1.50	1.45
21	3	3005	CLA	C1D-C2D	2.51	1.50	1.45
21	1	1012	CLA	OBD-CAD	2.51	1.26	1.22
21	A	1116	CLA	C1B-CHB	2.51	1.48	1.41
21	4	4013	CLA	C4D-CHA	2.51	1.47	1.38
21	B	1234	CLA	C1D-C2D	2.51	1.50	1.45
21	B	1219	CLA	C1B-CHB	2.51	1.48	1.41
21	3	3017	CLA	C3D-C2D	2.51	1.46	1.39
21	B	1226	CLA	C3D-C2D	2.50	1.46	1.39
21	A	1118	CLA	C1C-NC	-2.50	1.34	1.37
21	J	6014	CLA	C1D-C2D	2.50	1.50	1.45
21	4	4003	CLA	OBD-CAD	2.50	1.26	1.22
21	3	3002	CLA	C1B-CHB	2.50	1.47	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	1201	CLA	C1B-CHB	2.50	1.47	1.41
21	A	1124	CLA	C1D-C2D	2.50	1.50	1.45
21	A	1136	CLA	C1D-C2D	2.50	1.50	1.45
21	3	3002	CLA	C1D-C2D	2.50	1.50	1.45
21	B	1238	CLA	C1B-CHB	2.50	1.47	1.41
21	B	9010	CLA	C4D-CHA	2.50	1.47	1.38
21	A	1106	CLA	C1B-CHB	2.50	1.47	1.41
21	A	1130	CLA	C1D-C2D	2.50	1.50	1.45
21	B	1238	CLA	C1D-C2D	2.50	1.50	1.45
21	2	2003	CLA	C3D-C2D	2.49	1.45	1.39
21	A	1127	CLA	C1B-CHB	2.49	1.47	1.41
24	B	7101	DGD	O2G-C2G	-2.49	1.40	1.46
21	A	1112	CLA	C1D-C2D	2.49	1.50	1.45
21	B	1216	CLA	C1D-C2D	2.49	1.50	1.45
21	B	1206	CLA	C4C-C3C	2.49	1.49	1.45
21	L	1502	CLA	C1D-C2D	2.49	1.50	1.45
21	A	1103	CLA	C1B-CHB	2.49	1.47	1.41
21	A	1119	CLA	C1B-CHB	2.49	1.47	1.41
21	3	3009	CLA	C4D-CHA	2.49	1.47	1.38
21	A	1122	CLA	C1D-ND	-2.49	1.34	1.37
21	A	1108	CLA	C1B-CHB	2.49	1.47	1.41
21	4	4009	CLA	C4D-CHA	2.49	1.47	1.38
21	A	1137	CLA	C1C-NC	-2.49	1.34	1.37
21	3	3014	CLA	C1C-NC	-2.49	1.34	1.37
21	A	1116	CLA	C1D-C2D	2.49	1.50	1.45
21	4	4005	CLA	C4D-CHA	2.49	1.47	1.38
21	3	3009	CLA	C3D-C2D	2.49	1.45	1.39
21	B	9010	CLA	CHD-C4C	2.49	1.44	1.39
21	B	1225	CLA	C1C-NC	-2.49	1.34	1.37
21	B	1231	CLA	C1C-NC	-2.48	1.34	1.37
21	A	1129	CLA	C1D-C2D	2.48	1.50	1.45
21	J	1302	CLA	C4C-C3C	2.48	1.49	1.45
21	A	1141	CLA	C4C-C3C	2.48	1.49	1.45
21	A	1105	CLA	C1D-C2D	2.48	1.50	1.45
21	A	1102	CLA	C1B-CHB	2.48	1.47	1.41
21	A	1131	CLA	C4D-CHA	2.48	1.47	1.38
21	2	2005	CLA	C1B-CHB	2.48	1.47	1.41
21	L	1502	CLA	C1C-NC	-2.48	1.34	1.37
21	4	4010	CLA	MG-NC	2.48	2.12	2.06
21	3	3003	CLA	C1C-NC	-2.48	1.34	1.37
21	A	1129	CLA	C1C-NC	-2.47	1.34	1.37
21	B	1207	CLA	C1C-NC	-2.47	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1140	CLA	C1C-NC	-2.47	1.34	1.37
21	2	2004	CLA	C1B-CHB	2.47	1.47	1.41
21	A	1111	CLA	C1D-C2D	2.47	1.50	1.45
21	B	1230	CLA	C1C-NC	-2.47	1.34	1.37
21	B	1220	CLA	C1D-C2D	2.47	1.50	1.45
21	1	1004	CLA	C3D-C2D	2.47	1.45	1.39
21	1	1013	CLA	C3D-C2D	2.47	1.45	1.39
21	3	3012	CLA	C4D-CHA	2.46	1.47	1.38
21	B	1222	CLA	C1C-NC	-2.46	1.34	1.37
21	B	1215	CLA	C1D-C2D	2.46	1.50	1.45
21	A	1111	CLA	C1C-NC	-2.46	1.34	1.37
21	B	1205	CLA	C1C-NC	-2.46	1.34	1.37
21	B	1240	CLA	C3D-C2D	2.46	1.45	1.39
21	G	1001	CLA	C1B-CHB	2.46	1.47	1.41
21	B	1209	CLA	C1C-NC	-2.46	1.34	1.37
21	A	1137	CLA	C1B-CHB	2.46	1.47	1.41
21	A	1130	CLA	C1C-NC	-2.46	1.34	1.37
21	A	1104	CLA	C1D-C2D	2.46	1.50	1.45
21	A	1113	CLA	C1D-C2D	2.46	1.50	1.45
21	B	1206	CLA	C1D-C2D	2.46	1.50	1.45
21	F	1301	CLA	C1D-C2D	2.46	1.50	1.45
26	2	2502	LUT	C21-C26	-2.46	1.49	1.56
21	A	1111	CLA	C1B-CHB	2.46	1.47	1.41
21	3	3008	CLA	C1B-CHB	2.46	1.47	1.41
21	A	1135	CLA	C1D-C2D	2.46	1.50	1.45
21	B	1201	CLA	C1D-C2D	2.46	1.50	1.45
21	3	3014	CLA	C4B-CHC	2.46	1.47	1.41
21	A	1133	CLA	C4B-CHC	2.46	1.47	1.41
21	4	4009	CLA	MG-NC	2.46	2.12	2.06
21	H	1000	CLA	C1C-NC	-2.46	1.34	1.37
21	B	1219	CLA	C1D-C2D	2.46	1.50	1.45
27	4	4503	NEX	C11-C10	2.46	1.51	1.43
21	A	1126	CLA	C1B-CHB	2.45	1.47	1.41
21	A	1131	CLA	C4B-NB	-2.45	1.33	1.35
21	4	4007	CLA	C4D-CHA	2.45	1.47	1.38
21	4	4015	CLA	C4B-CHC	2.45	1.47	1.41
21	G	1002	CLA	C1B-CHB	2.45	1.47	1.41
21	B	1224	CLA	C1D-C2D	2.45	1.50	1.45
21	A	1110	CLA	C1B-CHB	2.45	1.47	1.41
21	2	2008	CLA	C4B-CHC	2.45	1.47	1.41
21	A	1104	CLA	C1C-NC	-2.45	1.34	1.37
21	1	1007	CLA	C4B-NB	-2.45	1.33	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1127	CLA	C4C-C3C	2.45	1.49	1.45
21	A	1113	CLA	C1C-NC	-2.45	1.34	1.37
21	B	1205	CLA	C1D-C2D	2.45	1.50	1.45
21	A	1101	CLA	C1B-CHB	2.44	1.47	1.41
21	A	1109	CLA	C1B-CHB	2.44	1.47	1.41
21	A	1132	CLA	C4B-CHC	2.44	1.47	1.41
21	B	1218	CLA	C1C-NC	-2.44	1.34	1.37
21	1	1004	CLA	C3B-C2B	2.44	1.43	1.40
21	B	1236	CLA	C1D-C2D	2.44	1.50	1.45
21	2	2008	CLA	C1B-NB	-2.44	1.33	1.35
21	2	2013	CLA	C4D-CHA	2.44	1.47	1.38
21	A	1141	CLA	C1C-NC	-2.44	1.34	1.37
21	F	1302	CLA	C4C-C3C	2.44	1.49	1.45
21	B	1224	CLA	C4C-C3C	2.44	1.49	1.45
21	3	3008	CLA	C4B-NB	-2.43	1.33	1.35
21	B	1204	CLA	C1C-NC	-2.43	1.34	1.37
21	A	1132	CLA	C4D-CHA	2.43	1.47	1.38
21	B	1227	CLA	C3D-C2D	2.43	1.45	1.39
21	3	3016	CLA	C1D-C2D	2.43	1.50	1.45
21	2	2008	CLA	C3D-C2D	2.43	1.45	1.39
21	A	1101	CLA	C1C-NC	-2.43	1.34	1.37
21	B	1238	CLA	C1C-NC	-2.43	1.34	1.37
21	4	4013	CLA	OBD-CAD	2.43	1.26	1.22
21	A	1110	CLA	C4B-CHC	2.43	1.47	1.41
21	4	4004	CLA	C1B-CHB	2.43	1.47	1.41
21	B	1207	CLA	C4B-CHC	2.42	1.47	1.41
25	G	2021	LMG	O8-C28	2.42	1.45	1.33
21	B	1207	CLA	C1D-C2D	2.42	1.50	1.45
21	B	9023	CLA	C4D-CHA	2.42	1.47	1.38
21	2	2002	CLA	C4D-CHA	2.42	1.47	1.38
21	A	1119	CLA	C4C-C3C	2.42	1.49	1.45
21	B	1240	CLA	MG-NC	2.42	2.12	2.06
21	B	1230	CLA	C1D-C2D	2.42	1.50	1.45
21	B	1237	CLA	C1D-C2D	2.42	1.50	1.45
21	A	1118	CLA	C1D-C2D	2.42	1.50	1.45
21	J	6015	CLA	C4D-CHA	2.41	1.47	1.38
21	B	1216	CLA	C1B-CHB	2.41	1.47	1.41
21	A	1138	CLA	C1B-CHB	2.41	1.47	1.41
21	A	1128	CLA	C1D-C2D	2.41	1.50	1.45
21	B	1210	CLA	C1D-C2D	2.41	1.50	1.45
21	A	1117	CLA	C1C-NC	-2.41	1.34	1.37
21	3	3011	CLA	C1D-C2D	2.41	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	2012	CLA	MG-NC	2.41	2.12	2.06
21	1	1011	CLA	C4D-CHA	2.41	1.47	1.38
21	3	3016	CLA	C4C-C3C	2.41	1.49	1.45
21	G	1002	CLA	C3D-C2D	2.41	1.45	1.39
21	B	1203	CLA	C1D-C2D	2.41	1.50	1.45
21	L	1503	CLA	C1D-C2D	2.41	1.50	1.45
21	4	4007	CLA	C3B-C2B	2.41	1.43	1.40
21	A	1115	CLA	C1D-C2D	2.41	1.50	1.45
21	4	4012	CLA	C3D-C2D	2.40	1.45	1.39
21	A	1106	CLA	C1C-NC	-2.40	1.34	1.37
21	2	2005	CLA	C4D-CHA	2.40	1.46	1.38
21	B	1214	CLA	C1D-C2D	2.40	1.50	1.45
21	A	1128	CLA	C1C-NC	-2.40	1.34	1.37
21	A	1123	CLA	C1D-C2D	2.40	1.50	1.45
21	L	1503	CLA	C1C-NC	-2.40	1.34	1.37
21	B	1212	CLA	C1C-NC	-2.40	1.34	1.37
21	B	1211	CLA	C1C-NC	-2.40	1.34	1.37
21	A	9012	CLA	C1B-CHB	2.40	1.47	1.41
21	1	1001	CLA	C1B-CHB	2.40	1.47	1.41
21	B	1229	CLA	C1C-NC	-2.39	1.34	1.37
21	B	1206	CLA	C1C-NC	-2.39	1.34	1.37
21	2	2003	CLA	C4D-CHA	2.39	1.46	1.38
21	4	4013	CLA	C1B-CHB	2.39	1.47	1.41
21	B	1202	CLA	C1D-C2D	2.39	1.50	1.45
21	A	1122	CLA	C1B-CHB	2.39	1.47	1.41
21	A	1109	CLA	C4C-C3C	2.39	1.49	1.45
21	B	1214	CLA	C1C-NC	-2.39	1.34	1.37
21	A	1124	CLA	C1C-NC	-2.39	1.34	1.37
21	B	1211	CLA	C1D-C2D	2.39	1.50	1.45
21	A	1121	CLA	C1C-NC	-2.39	1.34	1.37
21	A	1135	CLA	C1C-NC	-2.39	1.34	1.37
21	A	1122	CLA	C4C-C3C	2.39	1.49	1.45
21	1	1006	CLA	C1D-C2D	2.39	1.50	1.45
21	A	9012	CLA	C3D-C2D	2.39	1.45	1.39
21	3	3003	CLA	C1D-C2D	2.39	1.50	1.45
21	3	3006	CLA	C4C-C3C	2.38	1.49	1.45
21	B	1239	CLA	CHD-C4C	2.38	1.44	1.39
21	B	9022	CLA	O2D-CED	-2.38	1.39	1.45
21	J	1302	CLA	C1B-CHB	2.38	1.47	1.41
21	A	9013	CLA	CHD-C4C	2.38	1.44	1.39
21	A	1142	CLA	C4C-C3C	2.38	1.49	1.45
21	B	1226	CLA	MG-NC	2.38	2.11	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	H	1000	CLA	C4B-CHC	2.38	1.47	1.41
21	A	1102	CLA	C1D-C2D	2.38	1.50	1.45
21	B	1234	CLA	C1C-NC	-2.38	1.34	1.37
21	F	1302	CLA	C1C-NC	-2.38	1.34	1.37
21	1	1010	CLA	C4B-CHC	2.38	1.47	1.41
21	1	1007	CLA	OBD-CAD	2.38	1.26	1.22
21	3	3009	CLA	C1D-C2D	2.37	1.50	1.45
21	B	1235	CLA	C1C-NC	-2.37	1.34	1.37
21	A	1139	CLA	C4C-C3C	2.37	1.49	1.45
21	3	3017	CLA	C4C-C3C	2.37	1.49	1.45
21	4	4014	CLA	C1B-NB	-2.37	1.33	1.35
21	3	3010	CLA	C1B-CHB	2.37	1.47	1.41
21	A	1127	CLA	C1C-NC	-2.37	1.34	1.37
21	A	1131	CLA	C1B-CHB	2.37	1.47	1.41
21	B	1234	CLA	C4C-C3C	2.37	1.49	1.45
21	2	2001	CLA	C2C-C1C	2.37	1.48	1.43
21	2	2008	CLA	C1B-CHB	2.37	1.47	1.41
21	3	3012	CLA	C4B-NB	-2.37	1.33	1.35
21	2	2010	CLA	OBD-CAD	2.37	1.26	1.22
21	B	1236	CLA	C1C-NC	-2.37	1.34	1.37
21	B	1237	CLA	C1C-NC	-2.37	1.34	1.37
21	4	4003	CLA	C4D-CHA	2.37	1.46	1.38
21	B	1213	CLA	C4D-CHA	2.36	1.46	1.38
21	A	1136	CLA	C1C-NC	-2.36	1.34	1.37
21	3	3004	CLA	C4C-C3C	2.36	1.49	1.45
21	1	1010	CLA	C1B-CHB	2.36	1.47	1.41
21	A	1134	CLA	C4C-C3C	2.36	1.49	1.45
21	B	1221	CLA	C1C-NC	-2.36	1.34	1.37
21	A	1114	CLA	C4C-C3C	2.36	1.49	1.45
21	A	1126	CLA	C1C-NC	-2.36	1.34	1.37
21	A	1134	CLA	C1C-NC	-2.36	1.34	1.37
21	B	1216	CLA	C1C-NC	-2.36	1.34	1.37
21	B	1210	CLA	C4C-C3C	2.36	1.49	1.45
21	4	4015	CLA	OBD-CAD	2.35	1.26	1.22
21	3	3017	CLA	C1C-NC	-2.35	1.34	1.37
21	B	1224	CLA	C1B-CHB	2.35	1.47	1.41
21	B	1217	CLA	C1D-C2D	2.35	1.50	1.45
21	A	1105	CLA	C1C-NC	-2.35	1.34	1.37
21	3	3013	CLA	C4C-C3C	2.35	1.49	1.45
21	A	1116	CLA	C1C-NC	-2.35	1.34	1.37
21	2	2003	CLA	C4B-NB	-2.35	1.33	1.35
21	3	3014	CLA	C1B-CHB	2.35	1.47	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1113	CLA	C4C-C3C	2.35	1.49	1.45
21	L	1501	CLA	C1C-NC	-2.34	1.34	1.37
21	B	9010	CLA	OBD-CAD	2.34	1.26	1.22
21	B	1203	CLA	C1C-NC	-2.34	1.34	1.37
21	A	1118	CLA	C4C-C3C	2.34	1.49	1.45
21	3	3015	CLA	C4C-C3C	2.34	1.49	1.45
21	A	1103	CLA	C1C-NC	-2.34	1.34	1.37
21	2	2013	CLA	C1B-CHB	2.34	1.47	1.41
21	B	1207	CLA	C4C-C3C	2.34	1.49	1.45
21	F	1302	CLA	C1D-C2D	2.34	1.49	1.45
21	A	1112	CLA	C1C-NC	-2.34	1.34	1.37
21	2	2014	CLA	C4B-NB	-2.34	1.33	1.35
21	A	1138	CLA	C1C-NC	-2.34	1.34	1.37
21	B	1228	CLA	MG-NC	2.34	2.11	2.06
21	1	1012	CLA	C4B-CHC	2.33	1.47	1.41
21	4	4001	CLA	C4B-CHC	2.33	1.47	1.41
21	A	1114	CLA	C1C-NC	-2.33	1.34	1.37
21	B	1215	CLA	C1C-NC	-2.33	1.34	1.37
21	2	2010	CLA	C3D-C2D	2.33	1.45	1.39
21	A	1120	CLA	C4C-C3C	2.33	1.49	1.45
21	3	3016	CLA	C1C-NC	-2.33	1.34	1.37
21	A	1110	CLA	C4C-C3C	2.33	1.49	1.45
21	A	1107	CLA	C1C-NC	-2.33	1.34	1.37
21	B	1224	CLA	C1C-NC	-2.33	1.34	1.37
21	B	1239	CLA	C1B-CHB	2.33	1.47	1.41
21	4	4002	CLA	C2A-C1A	-2.32	1.47	1.52
21	A	1123	CLA	C1C-NC	-2.32	1.34	1.37
21	3	3006	CLA	C1C-NC	-2.32	1.34	1.37
21	B	1212	CLA	C4C-C3C	2.32	1.49	1.45
21	B	1229	CLA	C1D-C2D	2.32	1.49	1.45
21	A	1118	CLA	C4B-CHC	2.32	1.47	1.41
21	4	4015	CLA	C4D-CHA	2.32	1.46	1.38
21	A	9012	CLA	C4B-CHC	2.32	1.47	1.41
21	1	1010	CLA	C3D-C2D	2.32	1.45	1.39
21	A	1111	CLA	C4C-C3C	2.32	1.49	1.45
21	2	2008	CLA	C4D-CHA	2.32	1.46	1.38
21	F	1303	CLA	C1B-CHB	2.32	1.47	1.41
21	A	1108	CLA	C1C-NC	-2.32	1.34	1.37
21	G	1001	CLA	C4D-CHA	2.32	1.46	1.38
21	A	1115	CLA	C1C-NC	-2.32	1.34	1.37
21	2	2004	CLA	CAD-C3D	-2.32	1.46	1.50
21	A	1123	CLA	C4C-C3C	2.32	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	3013	CLA	C1B-NB	-2.32	1.33	1.35
21	B	1231	CLA	C4C-C3C	2.32	1.49	1.45
21	2	2004	CLA	C4D-CHA	2.32	1.46	1.38
21	B	1205	CLA	C4C-C3C	2.32	1.49	1.45
21	3	3015	CLA	C1C-NC	-2.32	1.34	1.37
21	2	2006	CLA	C1C-NC	-2.31	1.34	1.37
21	B	1206	CLA	C4B-CHC	2.31	1.47	1.41
21	A	1122	CLA	C1C-NC	-2.31	1.34	1.37
21	1	1004	CLA	C2A-C1A	-2.31	1.47	1.52
21	1	1011	CLA	C1B-NB	-2.31	1.33	1.35
21	B	1202	CLA	C1C-NC	-2.31	1.34	1.37
21	A	1142	CLA	C1C-NC	-2.31	1.34	1.37
21	A	1143	CLA	C1C-NC	-2.31	1.34	1.37
21	1	1011	CLA	C4B-NB	-2.31	1.33	1.35
21	4	4003	CLA	C4B-CHC	2.31	1.47	1.41
21	G	1002	CLA	C4D-CHA	2.31	1.46	1.38
21	B	1228	CLA	C4B-CHC	2.31	1.47	1.41
21	L	1501	CLA	C1D-C2D	2.31	1.49	1.45
21	2	2007	CLA	C4D-CHA	2.31	1.46	1.38
21	2	2010	CLA	C4B-NB	-2.31	1.33	1.35
21	A	1126	CLA	C1D-C2D	2.30	1.49	1.45
21	A	1133	CLA	C1B-CHB	2.30	1.47	1.41
21	A	1132	CLA	C1B-NB	-2.30	1.33	1.35
21	1	1005	CLA	C3D-C2D	2.30	1.45	1.39
21	3	3012	CLA	C1C-NC	-2.30	1.34	1.37
21	B	1208	CLA	C1C-NC	-2.30	1.34	1.37
21	B	1225	CLA	C1D-C2D	2.30	1.49	1.45
21	A	1101	CLA	C4C-C3C	2.30	1.49	1.45
21	F	1301	CLA	C4C-C3C	2.30	1.49	1.45
21	A	1125	CLA	C3D-C2D	2.29	1.45	1.39
21	B	1222	CLA	C1B-CHB	2.29	1.47	1.41
21	1	1014	CLA	C4C-C3C	2.29	1.49	1.45
21	A	1127	CLA	C1D-C2D	2.29	1.49	1.45
21	2	2010	CLA	C1B-CHB	2.29	1.47	1.41
21	B	1220	CLA	C4C-C3C	2.29	1.49	1.45
21	B	1217	CLA	C4C-C3C	2.29	1.49	1.45
21	A	1143	CLA	C4C-C3C	2.29	1.49	1.45
21	A	1120	CLA	C1C-NC	-2.29	1.34	1.37
21	J	6015	CLA	C4B-NB	-2.28	1.33	1.35
21	3	3004	CLA	C1C-NC	-2.28	1.34	1.37
26	1	1501	LUT	C21-C26	-2.28	1.50	1.56
21	4	4013	CLA	C3B-C2B	2.28	1.43	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1119	CLA	C1C-NC	-2.28	1.34	1.37
21	B	1225	CLA	C4C-C3C	2.28	1.49	1.45
21	A	1125	CLA	C4D-CHA	2.28	1.46	1.38
23	A	9011	CL0	C3B-C2B	2.28	1.43	1.40
21	3	3002	CLA	C1C-NC	-2.28	1.34	1.37
21	4	4010	CLA	C1B-CHB	2.28	1.47	1.41
21	B	1209	CLA	C1D-C2D	2.28	1.49	1.45
21	3	3005	CLA	C4C-C3C	2.28	1.49	1.45
21	4	4003	CLA	C4B-NB	-2.28	1.33	1.35
21	2	2010	CLA	C4D-CHA	2.28	1.46	1.38
21	B	9023	CLA	C3D-C2D	2.27	1.45	1.39
21	B	1220	CLA	C1C-NC	-2.27	1.34	1.37
21	J	1302	CLA	C1C-NC	-2.27	1.34	1.37
21	J	6014	CLA	C1C-NC	-2.27	1.34	1.37
21	A	1126	CLA	C4C-C3C	2.27	1.49	1.45
21	A	1135	CLA	C4C-C3C	2.27	1.49	1.45
21	4	4006	CLA	C4B-CHC	2.27	1.47	1.41
21	A	1125	CLA	C1B-CHB	2.27	1.47	1.41
21	3	3002	CLA	C4C-C3C	2.27	1.49	1.45
21	3	3011	CLA	C4D-CHA	2.27	1.46	1.38
21	1	1001	CLA	C4D-CHA	2.27	1.46	1.38
21	A	1103	CLA	C4C-C3C	2.27	1.48	1.45
21	B	1227	CLA	C4D-CHA	2.27	1.46	1.38
21	A	1138	CLA	C4C-C3C	2.27	1.48	1.45
21	A	1124	CLA	C4C-C3C	2.26	1.48	1.45
21	3	3009	CLA	C4B-CHC	2.26	1.47	1.41
21	A	1106	CLA	C1C-C2C	2.26	1.48	1.44
21	4	4009	CLA	C1B-CHB	2.26	1.47	1.41
21	B	1211	CLA	C4C-C3C	2.26	1.48	1.45
21	A	1102	CLA	C1C-NC	-2.25	1.34	1.37
21	1	1002	CLA	MG-NC	2.25	2.11	2.06
21	B	1216	CLA	C4C-C3C	2.25	1.48	1.45
21	1	1002	CLA	C4B-CHC	2.25	1.47	1.41
21	B	1209	CLA	C4C-C3C	2.25	1.48	1.45
21	1	1012	CLA	C4D-CHA	2.25	1.46	1.38
21	1	1014	CLA	C4B-CHC	2.25	1.47	1.41
21	F	1303	CLA	C3D-C2D	2.25	1.45	1.39
21	3	3001	CLA	C1C-NC	-2.25	1.34	1.37
21	B	1201	CLA	C1C-NC	-2.24	1.34	1.37
21	A	1117	CLA	C4C-C3C	2.24	1.48	1.45
21	B	1222	CLA	C4C-C3C	2.24	1.48	1.45
21	1	1012	CLA	C3D-C2D	2.24	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	3005	CLA	C1C-NC	-2.24	1.34	1.37
21	A	1106	CLA	C1D-C2D	2.24	1.49	1.45
21	B	1226	CLA	C1B-CHB	2.24	1.47	1.41
21	1	1008	CLA	MG-NC	2.24	2.11	2.06
21	4	4009	CLA	C4B-CHC	2.24	1.47	1.41
21	F	1303	CLA	OBD-CAD	2.24	1.26	1.22
21	A	1140	CLA	C4C-C3C	2.24	1.48	1.45
21	1	1008	CLA	C4B-CHC	2.23	1.47	1.41
21	4	4003	CLA	C1B-NB	-2.23	1.33	1.35
21	2	2006	CLA	C4B-CHC	2.23	1.47	1.41
21	3	3001	CLA	C1D-C2D	2.23	1.49	1.45
21	1	1004	CLA	C4B-CHC	2.23	1.47	1.41
21	3	3012	CLA	C1B-CHB	2.23	1.47	1.41
21	B	1237	CLA	C4C-C3C	2.23	1.48	1.45
21	1	1014	CLA	C1D-C2D	2.23	1.49	1.45
21	A	1108	CLA	C4C-C3C	2.23	1.48	1.45
21	B	1204	CLA	C4C-C3C	2.23	1.48	1.45
21	B	1227	CLA	C1B-CHB	2.22	1.47	1.41
21	4	4011	CLA	C3D-C2D	2.22	1.45	1.39
21	A	1105	CLA	C4C-C3C	2.22	1.48	1.45
21	3	3001	CLA	C4C-C3C	2.21	1.48	1.45
21	A	9012	CLA	CHD-C4C	2.21	1.44	1.39
21	3	3001	CLA	C1C-C2C	2.21	1.48	1.44
21	B	1202	CLA	C4C-C3C	2.21	1.48	1.45
21	4	4002	CLA	C4D-CHA	2.21	1.46	1.38
21	B	9010	CLA	MG-NC	2.21	2.11	2.06
21	4	4011	CLA	C2A-C1A	-2.21	1.47	1.52
21	1	1005	CLA	C4D-CHA	2.21	1.46	1.38
21	1	1004	CLA	OBD-CAD	2.21	1.26	1.22
21	A	1115	CLA	C4C-C3C	2.21	1.48	1.45
21	2	2004	CLA	C4B-CHC	2.20	1.47	1.41
21	B	9022	CLA	OBD-CAD	2.20	1.26	1.22
21	1	1004	CLA	C4D-CHA	2.20	1.46	1.38
21	A	1133	CLA	C1B-NB	-2.20	1.33	1.35
23	A	9011	CL0	C4D-CHA	2.20	1.46	1.38
21	A	1136	CLA	C4C-C3C	2.20	1.48	1.45
21	4	4007	CLA	C1B-CHB	2.19	1.47	1.41
21	B	9022	CLA	C4D-CHA	2.19	1.46	1.38
21	A	1115	CLA	C1C-C2C	2.19	1.48	1.44
21	J	6014	CLA	C4C-C3C	2.19	1.48	1.45
21	4	4006	CLA	C3D-C2D	2.19	1.45	1.39
21	A	1112	CLA	C4C-C3C	2.19	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	1	1001	CLA	C3D-C2D	2.19	1.45	1.39
21	4	4011	CLA	C1B-CHB	2.19	1.47	1.41
21	B	1221	CLA	C4C-C3C	2.19	1.48	1.45
19	B	6004	BCR	C30-C25	-2.19	1.50	1.53
21	1	1003	CLA	C4B-CHC	2.19	1.47	1.41
20	2	2801	LHG	O7-C5	-2.18	1.41	1.46
21	1	1004	CLA	C1B-CHB	2.18	1.47	1.41
21	2	2014	CLA	C4D-ND	2.18	1.40	1.37
21	A	1137	CLA	C4C-C3C	2.18	1.48	1.45
21	A	9012	CLA	C4D-CHA	2.18	1.46	1.38
21	B	1240	CLA	C2A-C1A	-2.18	1.47	1.52
21	1	1008	CLA	C2A-C1A	-2.17	1.47	1.52
21	B	1238	CLA	C4C-C3C	2.17	1.48	1.45
21	B	1219	CLA	C4C-C3C	2.17	1.48	1.45
21	B	1229	CLA	C4C-C3C	2.17	1.48	1.45
21	4	4012	CLA	OBD-CAD	2.17	1.26	1.22
21	B	1230	CLA	C4C-C3C	2.17	1.48	1.45
21	2	2012	CLA	C4D-CHA	2.17	1.46	1.38
21	B	1213	CLA	C1D-C2D	2.17	1.49	1.45
21	3	3011	CLA	C1B-CHB	2.17	1.47	1.41
21	B	1239	CLA	C3B-C2B	2.17	1.43	1.40
21	B	9010	CLA	C3A-C4A	-2.17	1.44	1.51
21	L	1503	CLA	C4C-C3C	2.17	1.48	1.45
21	1	1009	CLA	CBD-CGD	-2.16	1.45	1.52
21	2	2005	CLA	OBD-CAD	2.16	1.26	1.22
21	G	1001	CLA	C3D-C2D	2.16	1.45	1.39
21	4	4011	CLA	C3B-C2B	2.16	1.43	1.40
21	A	1107	CLA	C1D-C2D	2.16	1.49	1.45
21	B	1223	CLA	C1D-C2D	2.16	1.49	1.45
21	B	1215	CLA	C4C-C3C	2.16	1.48	1.45
21	A	1131	CLA	C4B-CHC	2.16	1.47	1.41
21	4	4002	CLA	C3D-C2D	2.16	1.45	1.39
21	A	1125	CLA	OBD-CAD	2.15	1.26	1.22
21	B	1239	CLA	MG-NC	2.15	2.11	2.06
21	A	1116	CLA	C4C-C3C	2.15	1.48	1.45
21	4	4010	CLA	C4D-CHA	2.15	1.46	1.38
21	B	1208	CLA	C1C-C2C	2.15	1.48	1.44
21	A	1102	CLA	C1C-C2C	2.15	1.48	1.44
21	B	1208	CLA	C4C-C3C	2.14	1.48	1.45
21	4	4004	CLA	C4B-CHC	2.14	1.46	1.41
21	4	4001	CLA	MG-NC	2.14	2.11	2.06
21	3	3011	CLA	C1B-NB	-2.14	1.33	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	1	1011	CLA	C3D-C2D	2.14	1.45	1.39
21	4	4008	CLA	C1B-CHB	2.13	1.46	1.41
21	A	1102	CLA	C4C-C3C	2.13	1.48	1.45
21	B	1201	CLA	C4C-C3C	2.13	1.48	1.45
21	A	1132	CLA	C1B-CHB	2.13	1.46	1.41
21	G	1001	CLA	C4B-CHC	2.13	1.46	1.41
21	4	4012	CLA	C4B-CHC	2.13	1.46	1.41
21	B	1223	CLA	C4C-C3C	2.13	1.48	1.45
21	2	2011	CLA	C4D-CHA	2.13	1.46	1.38
21	4	4014	CLA	C4C-C3C	2.12	1.48	1.45
21	A	1116	CLA	C1C-C2C	2.12	1.48	1.44
21	A	1141	CLA	C1C-C2C	2.12	1.48	1.44
26	4	4502	LUT	C1-C6	-2.11	1.50	1.53
21	J	6014	CLA	C1C-C2C	2.11	1.48	1.44
21	B	1228	CLA	C3D-C2D	2.11	1.44	1.39
21	F	1303	CLA	C4D-CHA	2.11	1.45	1.38
21	A	1112	CLA	C1C-C2C	2.11	1.48	1.44
21	A	1123	CLA	C1C-C2C	2.11	1.48	1.44
21	2	2002	CLA	C4B-CHC	2.11	1.46	1.41
21	4	4009	CLA	C4B-NB	-2.11	1.33	1.35
21	B	1213	CLA	C1B-CHB	2.10	1.46	1.41
21	B	1226	CLA	O2D-CED	-2.10	1.40	1.45
21	B	1221	CLA	C1D-C2D	2.10	1.49	1.45
21	A	9012	CLA	CAA-C2A	-2.10	1.50	1.54
21	4	4001	CLA	C3D-C2D	2.10	1.44	1.39
21	A	1125	CLA	C4B-CHC	2.10	1.46	1.41
21	3	3003	CLA	C1C-C2C	2.10	1.48	1.44
21	B	1229	CLA	C1C-C2C	2.10	1.48	1.44
21	A	1126	CLA	C1C-C2C	2.10	1.48	1.44
21	A	1133	CLA	C1D-C2D	2.09	1.49	1.45
21	4	4010	CLA	C3D-C2D	2.09	1.44	1.39
21	L	1502	CLA	C4C-C3C	2.09	1.48	1.45
21	B	1209	CLA	C1C-C2C	2.09	1.48	1.44
21	2	2005	CLA	C3D-C2D	2.09	1.44	1.39
21	2	2011	CLA	C1B-CHB	2.09	1.46	1.41
21	4	4013	CLA	C4B-CHC	2.08	1.46	1.41
26	2	2501	LUT	C1-C6	-2.08	1.50	1.53
21	4	4012	CLA	C2A-C1A	-2.08	1.47	1.52
21	A	1104	CLA	C4C-C3C	2.08	1.48	1.45
21	A	1105	CLA	C1C-C2C	2.08	1.48	1.44
21	B	9022	CLA	CAA-C2A	-2.08	1.50	1.54
21	B	1203	CLA	C4C-C3C	2.08	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	J	6015	CLA	C4B-CHC	2.08	1.46	1.41
21	4	4012	CLA	C4D-CHA	2.08	1.45	1.38
21	4	4005	CLA	C2A-C1A	-2.08	1.47	1.52
21	B	1201	CLA	C1C-C2C	2.08	1.48	1.44
21	1	1008	CLA	OBD-CAD	2.08	1.26	1.22
21	A	1122	CLA	C4D-ND	2.08	1.40	1.37
21	4	4004	CLA	C4D-CHA	2.07	1.45	1.38
21	2	2009	CLA	C4B-CHC	2.07	1.46	1.41
21	1	1009	CLA	C3D-C2D	2.07	1.44	1.39
21	F	1302	CLA	C1C-C2C	2.07	1.48	1.44
21	A	1127	CLA	C1C-C2C	2.07	1.48	1.44
21	B	1214	CLA	C4C-C3C	2.07	1.48	1.45
21	A	9013	CLA	OBD-CAD	2.07	1.26	1.22
21	A	1107	CLA	C4C-C3C	2.07	1.48	1.45
21	B	1218	CLA	C4C-C3C	2.07	1.48	1.45
21	1	1013	CLA	C1B-CHB	2.07	1.46	1.41
21	4	4014	CLA	C1C-NC	-2.07	1.34	1.37
21	2	2007	CLA	C4B-CHC	2.07	1.46	1.41
21	3	3012	CLA	C4B-CHC	2.07	1.46	1.41
21	A	1121	CLA	C4C-C3C	2.07	1.48	1.45
23	A	9011	CL0	C3A-C4A	-2.07	1.45	1.51
21	1	1008	CLA	C4D-CHA	2.07	1.45	1.38
21	4	4005	CLA	MG-NC	2.07	2.11	2.06
21	3	3005	CLA	C1C-C2C	2.06	1.48	1.44
26	1	1502	LUT	C28-C29	2.06	1.50	1.45
21	3	3013	CLA	C4B-CHC	2.06	1.46	1.41
21	2	2005	CLA	C4B-CHC	2.06	1.46	1.41
21	B	1234	CLA	C1C-C2C	2.06	1.48	1.44
21	B	1228	CLA	C4D-CHA	2.06	1.45	1.38
21	2	2001	CLA	C3C-C4C	2.06	1.48	1.43
21	4	4001	CLA	C4D-CHA	2.06	1.45	1.38
21	A	1121	CLA	C1C-C2C	2.06	1.48	1.44
21	4	4015	CLA	C1B-CHB	2.06	1.46	1.41
21	A	1130	CLA	C4C-C3C	2.06	1.48	1.45
26	4	4502	LUT	C28-C29	2.06	1.50	1.45
21	B	1236	CLA	C1C-C2C	2.06	1.48	1.44
21	2	2009	CLA	C1B-CHB	2.05	1.46	1.41
21	2	2006	CLA	C1B-NB	-2.05	1.33	1.35
21	1	1009	CLA	C1B-CHB	2.05	1.46	1.41
21	A	1138	CLA	C1C-C2C	2.05	1.48	1.44
23	A	9011	CL0	C3D-C2D	2.05	1.44	1.39
21	B	1226	CLA	C4D-CHA	2.05	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	4	4004	CLA	C2A-C1A	-2.05	1.47	1.52
21	1	1007	CLA	CBD-CGD	-2.05	1.46	1.52
21	1	1010	CLA	C1B-NB	-2.05	1.33	1.35
21	3	3008	CLA	C4B-CHC	2.04	1.46	1.41
21	4	4006	CLA	C4D-CHA	2.04	1.45	1.38
21	B	1214	CLA	C1C-C2C	2.04	1.48	1.44
21	3	3010	CLA	C1D-C2D	2.04	1.49	1.45
21	1	1008	CLA	C1B-CHB	2.04	1.46	1.41
21	A	1143	CLA	C1C-C2C	2.03	1.48	1.44
21	1	1006	CLA	C4B-CHC	2.03	1.46	1.41
26	1	1502	LUT	C32-C33	2.03	1.50	1.45
21	1	1009	CLA	C4D-CHA	2.03	1.45	1.38
21	A	1139	CLA	C1C-C2C	2.03	1.48	1.44
21	1	1005	CLA	C4B-CHC	2.03	1.46	1.41
21	2	2012	CLA	C4B-CHC	2.03	1.46	1.41
23	A	9011	CL0	C4B-CHC	2.03	1.46	1.41
21	A	1107	CLA	C1C-C2C	2.03	1.48	1.44
21	A	1121	CLA	C1D-C2D	2.03	1.49	1.45
21	2	2012	CLA	C1D-C2D	2.02	1.49	1.45
21	B	1203	CLA	C1C-C2C	2.02	1.48	1.44
21	B	1210	CLA	C1C-C2C	2.02	1.48	1.44
21	4	4001	CLA	C1B-CHB	2.02	1.46	1.41
21	2	2013	CLA	C4B-CHC	2.02	1.46	1.41
21	B	1236	CLA	C4C-C3C	2.02	1.48	1.45
21	B	9023	CLA	C1B-CHB	2.02	1.46	1.41
21	4	4005	CLA	C1B-CHB	2.02	1.46	1.41
21	B	1219	CLA	C1C-C2C	2.02	1.48	1.44
21	B	1220	CLA	C1C-C2C	2.02	1.48	1.44
21	1	1007	CLA	C4D-CHA	2.02	1.45	1.38
21	A	1122	CLA	C1C-C2C	2.02	1.48	1.44
21	B	1204	CLA	C1C-C2C	2.02	1.48	1.44
21	A	1134	CLA	C1C-C2C	2.01	1.48	1.44
21	4	4006	CLA	MG-NC	2.01	2.11	2.06
21	2	2003	CLA	C1B-NB	-2.01	1.33	1.35
21	3	3016	CLA	C1C-C2C	2.01	1.48	1.44
21	B	9023	CLA	MG-ND	-2.01	2.01	2.05
21	2	2003	CLA	C4B-CHC	2.01	1.46	1.41
21	B	1239	CLA	C4D-CHA	2.01	1.45	1.38
21	B	9023	CLA	C2A-C1A	-2.01	1.47	1.52
21	B	1238	CLA	C1C-C2C	2.01	1.48	1.44
21	3	3006	CLA	C1C-C2C	2.01	1.48	1.44
21	L	1501	CLA	C4C-C3C	2.01	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	1114	CLA	C1C-C2C	2.01	1.48	1.44
21	B	1222	CLA	C1C-C2C	2.01	1.48	1.44
21	1	1013	CLA	C1B-NB	-2.01	1.33	1.35
21	3	3015	CLA	C1C-C2C	2.01	1.48	1.44
21	B	1235	CLA	C1C-C2C	2.00	1.48	1.44
21	2	2014	CLA	C1D-C2D	2.00	1.49	1.45
21	1	1012	CLA	C4B-NB	-2.00	1.33	1.35
21	B	1239	CLA	OBD-CAD	2.00	1.25	1.22
21	B	1235	CLA	C4C-C3C	2.00	1.48	1.45
21	2	2011	CLA	C1D-C2D	2.00	1.49	1.45

All (4448) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	J	6012	BCR	C16-C17-C18	30.25	170.48	127.31
19	J	6012	BCR	C20-C21-C22	28.97	168.65	127.31
19	B	6005	BCR	C16-C17-C18	28.63	168.17	127.31
19	G	2011	BCR	C16-C17-C18	27.57	166.66	127.31
19	I	6020	BCR	C16-C17-C18	27.28	166.24	127.31
19	A	6017	BCR	C16-C17-C18	26.09	164.54	127.31
19	B	6010	BCR	C16-C17-C18	25.52	163.74	127.31
19	A	6002	BCR	C20-C21-C22	24.94	162.91	127.31
19	B	6006	BCR	C20-C21-C22	24.30	161.98	127.31
19	A	6011	BCR	C20-C21-C22	23.69	161.12	127.31
19	A	6011	BCR	C16-C17-C18	22.54	159.49	127.31
19	I	6018	BCR	C16-C17-C18	22.54	159.49	127.31
19	B	6011	BCR	C16-C17-C18	22.53	159.60	127.30
19	J	6013	BCR	C16-C17-C18	22.52	159.45	127.31
19	F	6016	BCR	C16-C17-C18	22.34	159.20	127.31
19	B	6010	BCR	C20-C21-C22	22.30	159.14	127.31
19	J	6013	BCR	C20-C21-C22	22.20	159.00	127.31
19	B	6006	BCR	C16-C17-C18	21.41	157.87	127.31
19	F	6016	BCR	C20-C21-C22	21.12	157.45	127.31
19	A	6008	BCR	C16-C17-C18	21.10	157.43	127.31
19	A	6002	BCR	C15-C16-C17	20.90	166.30	123.47
19	B	6004	BCR	C20-C21-C22	20.85	157.06	127.31
19	F	6014	BCR	C16-C17-C18	20.74	156.91	127.31
19	A	6003	BCR	C15-C16-C17	20.73	165.94	123.47
19	B	6004	BCR	C16-C17-C18	20.71	156.86	127.31
19	F	6014	BCR	C20-C21-C22	20.69	156.84	127.31
19	B	6009	BCR	C16-C17-C18	20.62	156.73	127.31
19	L	6020	BCR	C15-C16-C17	20.53	165.53	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	B	6009	BCR	C20-C21-C22	20.33	156.32	127.31
19	L	6019	BCR	C15-C16-C17	20.30	165.05	123.47
19	L	6020	BCR	C20-C21-C22	20.30	156.28	127.31
19	F	6014	BCR	C15-C16-C17	20.28	165.02	123.47
19	A	6007	BCR	C15-C16-C17	20.15	164.75	123.47
19	A	6008	BCR	C20-C21-C22	20.07	155.96	127.31
19	A	6007	BCR	C20-C21-C22	20.01	155.87	127.31
19	I	6020	BCR	C20-C21-C22	20.01	155.87	127.31
19	A	6002	BCR	C16-C17-C18	19.89	155.70	127.31
19	L	6020	BCR	C16-C17-C18	19.88	155.68	127.31
19	B	6009	BCR	C15-C16-C17	19.84	164.11	123.47
19	L	6019	BCR	C20-C21-C22	19.63	155.32	127.31
19	F	6016	BCR	C15-C16-C17	19.47	163.35	123.47
19	A	6003	BCR	C20-C21-C22	19.26	154.79	127.31
19	L	6019	BCR	C16-C17-C18	19.25	154.78	127.31
19	A	6007	BCR	C16-C17-C18	19.25	154.78	127.31
19	B	6006	BCR	C15-C16-C17	19.04	162.49	123.47
19	I	6018	BCR	C20-C21-C22	18.96	154.38	127.31
19	A	6003	BCR	C16-C17-C18	18.93	154.32	127.31
19	I	6018	BCR	C15-C16-C17	18.45	161.28	123.47
19	B	6005	BCR	C20-C21-C22	18.25	153.36	127.31
19	F	6016	BCR	C32-C1-C6	-18.24	80.71	110.30
19	A	6017	BCR	C15-C16-C17	18.20	160.75	123.47
19	G	2011	BCR	C10-C11-C12	18.16	179.90	123.22
19	L	6019	BCR	C10-C11-C12	18.10	179.71	123.22
19	A	6008	BCR	C15-C16-C17	18.06	160.46	123.47
19	B	6006	BCR	C32-C1-C6	-18.05	81.02	110.30
19	B	6011	BCR	C10-C11-C12	18.05	179.53	123.22
19	A	6017	BCR	C20-C21-C22	18.04	153.05	127.31
19	G	2011	BCR	C20-C21-C22	17.98	152.97	127.31
19	B	6004	BCR	C15-C16-C17	17.96	160.25	123.47
19	B	6011	BCR	C15-C16-C17	17.91	160.15	123.47
19	L	6020	BCR	C10-C11-C12	17.84	178.89	123.22
19	F	6014	BCR	C10-C11-C12	17.39	177.49	123.22
19	A	6011	BCR	C15-C16-C17	17.36	159.04	123.47
19	B	6005	BCR	C16-C15-C14	17.28	158.87	123.47
19	A	6002	BCR	C10-C11-C12	17.19	176.86	123.22
19	I	6020	BCR	C10-C11-C12	17.10	176.57	123.22
19	A	6007	BCR	C16-C15-C14	16.91	158.11	123.47
19	B	6005	BCR	C10-C11-C12	16.84	175.76	123.22
19	B	6010	BCR	C10-C11-C12	16.83	175.75	123.22
19	J	6013	BCR	C16-C15-C14	16.79	157.87	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	A	6007	BCR	C10-C11-C12	16.78	175.57	123.22
19	J	6013	BCR	C15-C16-C17	16.76	157.81	123.47
19	B	6010	BCR	C15-C16-C17	16.76	157.81	123.47
19	F	6016	BCR	C10-C11-C12	16.69	175.29	123.22
19	A	6011	BCR	C31-C1-C6	-16.64	83.30	110.30
19	A	6011	BCR	C10-C11-C12	16.64	175.13	123.22
19	A	6003	BCR	C10-C11-C12	16.60	175.02	123.22
19	I	6018	BCR	C16-C15-C14	16.49	157.26	123.47
19	J	6012	BCR	C10-C11-C12	16.47	174.61	123.22
19	J	6013	BCR	C10-C11-C12	16.43	174.49	123.22
19	I	6018	BCR	C10-C11-C12	16.39	174.36	123.22
19	B	6004	BCR	C10-C11-C12	16.34	174.22	123.22
19	B	6009	BCR	C10-C11-C12	16.33	174.18	123.22
19	B	6006	BCR	C10-C11-C12	16.31	174.10	123.22
19	J	6012	BCR	C15-C16-C17	16.22	156.69	123.47
19	J	6013	BCR	C11-C10-C9	16.05	150.21	127.31
19	B	6011	BCR	C11-C10-C9	16.02	150.18	127.31
19	A	6008	BCR	C16-C15-C14	15.93	156.10	123.47
19	B	6010	BCR	C16-C15-C14	15.87	155.99	123.47
19	A	6008	BCR	C10-C11-C12	15.79	172.50	123.22
19	F	6014	BCR	C31-C1-C6	-15.77	84.72	110.30
19	A	6008	BCR	C31-C1-C6	-15.77	84.73	110.30
19	G	2011	BCR	C15-C16-C17	15.72	155.67	123.47
19	A	6017	BCR	C10-C11-C12	15.58	171.84	123.22
19	I	6018	BCR	C31-C1-C6	-15.58	85.03	110.30
19	B	6006	BCR	C11-C10-C9	15.42	149.32	127.31
19	I	6018	BCR	C32-C1-C6	-15.38	85.36	110.30
19	J	6012	BCR	C16-C15-C14	15.34	154.90	123.47
19	B	6004	BCR	C16-C15-C14	15.17	154.55	123.47
19	B	6005	BCR	C15-C16-C17	14.92	154.03	123.47
19	I	6020	BCR	C15-C16-C17	14.89	153.97	123.47
19	B	6011	BCR	C16-C15-C14	14.69	153.58	123.47
19	A	6008	BCR	C32-C1-C6	-14.66	86.52	110.30
19	B	6006	BCR	C29-C30-C25	-14.63	87.95	110.48
19	F	6014	BCR	C32-C1-C6	-14.59	86.64	110.30
19	A	6017	BCR	C21-C20-C19	14.56	168.66	123.22
19	G	2011	BCR	C21-C20-C19	14.42	168.23	123.22
19	F	6014	BCR	C29-C30-C25	-14.41	88.30	110.48
19	I	6018	BCR	C29-C30-C25	-14.30	88.46	110.48
19	B	6005	BCR	C21-C20-C19	14.26	167.73	123.22
19	I	6020	BCR	C11-C10-C9	14.04	147.34	127.31
19	G	2011	BCR	C16-C15-C14	14.00	152.16	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	A	6011	BCR	C16-C15-C14	13.84	151.83	123.47
19	A	6007	BCR	C11-C10-C9	13.70	146.86	127.31
19	A	6011	BCR	C32-C1-C6	-13.61	88.22	110.30
19	A	6008	BCR	C29-C30-C25	-13.60	89.54	110.48
19	B	6009	BCR	C16-C15-C14	13.56	151.25	123.47
19	F	6016	BCR	C11-C10-C9	13.56	146.66	127.31
19	B	6010	BCR	C11-C10-C9	13.52	146.61	127.31
19	I	6020	BCR	C21-C20-C19	13.51	165.38	123.22
19	B	6005	BCR	C11-C10-C9	13.51	146.59	127.31
19	A	6003	BCR	C11-C10-C9	13.51	146.59	127.31
19	B	6006	BCR	C16-C15-C14	13.40	150.93	123.47
19	A	6003	BCR	C21-C20-C19	13.40	165.02	123.22
19	L	6019	BCR	C21-C20-C19	13.36	164.91	123.22
19	F	6014	BCR	C16-C15-C14	13.34	150.79	123.47
19	I	6018	BCR	C21-C20-C19	13.28	164.66	123.22
19	F	6014	BCR	C11-C10-C9	13.27	146.25	127.31
19	A	6007	BCR	C21-C20-C19	13.22	164.47	123.22
19	A	6008	BCR	C21-C20-C19	13.11	164.12	123.22
19	F	6014	BCR	C21-C20-C19	13.04	163.92	123.22
19	A	6011	BCR	C11-C10-C9	13.04	145.92	127.31
19	A	6002	BCR	C11-C10-C9	12.87	145.68	127.31
19	A	6003	BCR	C16-C15-C14	12.84	149.77	123.47
19	L	6019	BCR	C16-C15-C14	12.80	149.69	123.47
19	F	6016	BCR	C16-C15-C14	12.74	149.57	123.47
19	L	6020	BCR	C21-C20-C19	12.72	162.91	123.22
19	B	6009	BCR	C21-C20-C19	12.68	162.78	123.22
19	J	6012	BCR	C11-C10-C9	12.65	145.36	127.31
19	A	6017	BCR	C16-C15-C14	12.57	149.22	123.47
19	A	6002	BCR	C21-C20-C19	12.55	162.38	123.22
19	L	6020	BCR	C11-C10-C9	12.53	145.19	127.31
19	L	6020	BCR	C16-C15-C14	12.48	149.03	123.47
19	I	6020	BCR	C16-C15-C14	12.43	148.94	123.47
19	F	6016	BCR	C29-C30-C25	-12.38	91.42	110.48
19	L	6019	BCR	C11-C10-C9	12.32	144.90	127.31
19	F	6016	BCR	C21-C20-C19	12.30	161.61	123.22
19	B	6004	BCR	C21-C20-C19	12.25	161.45	123.22
19	J	6013	BCR	C21-C20-C19	12.17	161.20	123.22
19	B	6010	BCR	C21-C20-C19	12.16	161.15	123.22
21	4	4002	CLA	C4A-NA-C1A	12.09	112.14	106.71
19	A	6002	BCR	C16-C15-C14	11.98	148.02	123.47
26	2	2502	LUT	C21-C26-C27	11.92	127.77	112.70
19	A	6011	BCR	C21-C20-C19	11.92	160.40	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	A	6011	BCR	C29-C30-C25	-11.86	92.22	110.48
19	B	6006	BCR	C11-C12-C13	11.63	159.09	126.42
19	B	6004	BCR	C11-C10-C9	11.53	143.77	127.31
26	4	4502	LUT	C21-C26-C27	11.50	127.24	112.70
19	B	6006	BCR	C21-C20-C19	11.36	158.65	123.22
19	F	6014	BCR	C11-C12-C13	11.32	158.21	126.42
19	B	6006	BCR	C31-C1-C6	-11.11	92.28	110.30
19	F	6016	BCR	C31-C1-C6	-10.87	92.67	110.30
19	F	6016	BCR	C11-C12-C13	10.86	156.93	126.42
19	G	2011	BCR	C11-C10-C9	10.76	142.67	127.31
19	A	6002	BCR	C11-C12-C13	10.74	156.59	126.42
19	B	6011	BCR	C11-C12-C13	10.72	156.52	126.42
21	4	4006	CLA	C4A-NA-C1A	10.67	111.50	106.71
19	B	6006	BCR	C2-C1-C6	-10.64	94.10	110.48
19	A	6011	BCR	C11-C12-C13	10.59	156.16	126.42
19	F	6016	BCR	C2-C1-C6	-10.46	94.37	110.48
19	B	6005	BCR	C11-C12-C13	10.39	155.61	126.42
19	A	6007	BCR	C11-C12-C13	10.30	155.34	126.42
19	A	6008	BCR	C2-C1-C6	-10.26	94.69	110.48
26	1	1501	LUT	C7-C8-C9	-10.23	110.78	126.23
19	J	6013	BCR	C11-C12-C13	10.21	155.09	126.42
19	I	6020	BCR	C11-C12-C13	10.20	155.07	126.42
19	I	6018	BCR	C2-C1-C6	-10.17	94.82	110.48
19	B	6009	BCR	C11-C12-C13	10.13	154.87	126.42
19	L	6020	BCR	C11-C12-C13	10.02	154.55	126.42
19	F	6014	BCR	C2-C1-C6	-10.00	95.08	110.48
19	A	6003	BCR	C11-C12-C13	9.85	154.09	126.42
19	G	2011	BCR	C11-C12-C13	9.77	153.86	126.42
19	A	6008	BCR	C11-C10-C9	9.74	141.22	127.31
21	3	3017	CLA	CMD-C2D-C1D	9.73	141.87	124.71
21	G	1001	CLA	C4A-NA-C1A	9.63	111.03	106.71
19	A	6011	BCR	C2-C1-C6	-9.63	95.66	110.48
21	1	1009	CLA	CMD-C2D-C1D	9.56	141.56	124.71
19	B	6009	BCR	C11-C10-C9	9.53	140.90	127.31
19	I	6018	BCR	C11-C10-C9	9.52	140.90	127.31
21	2	2003	CLA	CMD-C2D-C1D	9.51	141.47	124.71
21	2	2014	CLA	C4A-NA-C1A	9.50	110.98	106.71
21	3	3012	CLA	CMD-C2D-C1D	9.50	141.45	124.71
19	J	6012	BCR	C21-C20-C19	9.49	152.83	123.22
19	B	6010	BCR	C11-C12-C13	9.48	153.03	126.42
21	B	1226	CLA	C4A-NA-C1A	9.43	110.94	106.71
19	L	6019	BCR	C11-C12-C13	9.39	152.81	126.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	1	1013	CLA	C4A-NA-C1A	9.37	110.92	106.71
19	I	6018	BCR	C11-C12-C13	9.25	152.39	126.42
21	1	1011	CLA	C4A-NA-C1A	9.20	110.84	106.71
21	4	4007	CLA	C4A-NA-C1A	9.19	110.84	106.71
21	2	2002	CLA	C4A-NA-C1A	9.18	110.83	106.71
21	4	4006	CLA	C2D-C1D-ND	9.14	116.84	110.10
21	3	3009	CLA	CMD-C2D-C1D	9.13	140.80	124.71
21	B	1239	CLA	C4A-NA-C1A	9.09	110.79	106.71
19	J	6012	BCR	C11-C12-C13	9.07	151.91	126.42
21	1	1002	CLA	CMD-C2D-C1D	9.07	140.70	124.71
21	2	2010	CLA	CMD-C2D-C1D	9.01	140.59	124.71
21	4	4015	CLA	CMD-C2D-C1D	8.95	140.49	124.71
21	2	2005	CLA	C4A-NA-C1A	8.94	110.72	106.71
21	4	4006	CLA	CMD-C2D-C1D	8.91	140.42	124.71
21	2	2008	CLA	CMD-C2D-C1D	8.90	140.40	124.71
21	1	1009	CLA	C2C-C1C-NC	8.84	118.25	109.97
21	2	2001	CLA	C3B-C2B-C1B	-8.83	98.74	106.29
21	3	3011	CLA	CMD-C2D-C1D	8.82	140.25	124.71
21	2	2005	CLA	CMD-C2D-C1D	8.81	140.25	124.71
21	3	3008	CLA	CMD-C2D-C1D	8.81	140.24	124.71
19	B	6004	BCR	C11-C12-C13	8.77	151.06	126.42
21	2	2012	CLA	CMD-C2D-C1D	8.77	140.17	124.71
21	4	4009	CLA	CMD-C2D-C1D	8.71	140.06	124.71
21	1	1001	CLA	CMD-C2D-C1D	8.70	140.05	124.71
21	4	4010	CLA	CMD-C2D-C1D	8.69	140.03	124.71
21	3	3014	CLA	CMD-C2D-C1D	8.69	140.02	124.71
21	1	1001	CLA	C4A-NA-C1A	8.68	110.61	106.71
21	1	1007	CLA	CMD-C2D-C1D	8.66	139.98	124.71
19	A	6008	BCR	C11-C12-C13	8.65	150.72	126.42
21	A	1107	CLA	CMD-C2D-C1D	8.65	139.96	124.71
21	4	4008	CLA	CMD-C2D-C1D	8.63	139.92	124.71
21	4	4005	CLA	CMD-C2D-C1D	8.61	139.88	124.71
21	1	1012	CLA	CMD-C2D-C1D	8.58	139.83	124.71
21	3	3004	CLA	CMD-C2D-C1D	8.57	139.81	124.71
21	A	9013	CLA	C4A-NA-C1A	8.57	110.56	106.71
21	F	1303	CLA	C4A-NA-C1A	8.57	110.56	106.71
21	A	1122	CLA	CMD-C2D-C1D	8.56	139.80	124.71
21	1	1010	CLA	C4A-NA-C1A	8.53	110.54	106.71
21	1	1006	CLA	CMD-C2D-C1D	8.50	139.70	124.71
21	4	4009	CLA	C4A-NA-C1A	8.50	110.53	106.71
21	G	1001	CLA	CMD-C2D-C1D	8.47	139.64	124.71
21	2	2006	CLA	CMD-C2D-C1D	8.46	139.62	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	4	4007	CLA	CMD-C2D-C1D	8.44	139.58	124.71
21	4	4011	CLA	CMD-C2D-C1D	8.42	139.55	124.71
21	1	1011	CLA	CMD-C2D-C1D	8.40	139.51	124.71
21	G	1002	CLA	C4A-NA-C1A	8.39	110.48	106.71
21	3	3013	CLA	C2C-C1C-NC	8.38	117.83	109.97
21	4	4014	CLA	CMD-C2D-C1D	8.37	139.47	124.71
21	A	1112	CLA	CMD-C2D-C1D	8.35	139.43	124.71
21	A	1118	CLA	CMD-C2D-C1D	8.34	139.42	124.71
21	3	3003	CLA	CMD-C2D-C1D	8.34	139.41	124.71
21	B	1223	CLA	CMD-C2D-C1D	8.34	139.41	124.71
21	A	1129	CLA	CMD-C2D-C1D	8.33	139.40	124.71
21	1	1013	CLA	CMD-C2D-C1D	8.33	139.39	124.71
21	3	3003	CLA	C2D-C1D-ND	8.29	116.21	110.10
21	J	6015	CLA	CMD-C2D-C1D	8.28	139.31	124.71
21	3	3001	CLA	CMD-C2D-C1D	8.28	139.30	124.71
21	B	1218	CLA	CMD-C2D-C1D	8.27	139.29	124.71
21	A	1123	CLA	CMD-C2D-C1D	8.25	139.25	124.71
21	A	1104	CLA	CMD-C2D-C1D	8.24	139.24	124.71
21	B	1210	CLA	CMD-C2D-C1D	8.24	139.24	124.71
21	A	1139	CLA	CMD-C2D-C1D	8.24	139.23	124.71
21	G	1002	CLA	CMD-C2D-C1D	8.24	139.23	124.71
21	B	1214	CLA	CMD-C2D-C1D	8.20	139.17	124.71
21	A	1138	CLA	CMD-C2D-C1D	8.20	139.16	124.71
21	3	3002	CLA	CMD-C2D-C1D	8.20	139.16	124.71
21	B	1208	CLA	CMD-C2D-C1D	8.19	139.15	124.71
21	1	1005	CLA	CMD-C2D-C1D	8.19	139.15	124.71
21	A	1111	CLA	CMD-C2D-C1D	8.19	139.14	124.71
21	A	1143	CLA	CMD-C2D-C1D	8.18	139.14	124.71
21	B	1238	CLA	CMD-C2D-C1D	8.18	139.14	124.71
21	B	1211	CLA	CMD-C2D-C1D	8.18	139.13	124.71
21	A	1108	CLA	CMD-C2D-C1D	8.18	139.13	124.71
21	A	1109	CLA	CMD-C2D-C1D	8.18	139.12	124.71
21	A	1141	CLA	CMD-C2D-C1D	8.17	139.12	124.71
21	4	4002	CLA	CMD-C2D-C1D	8.17	139.11	124.71
21	L	1502	CLA	CMD-C2D-C1D	8.16	139.10	124.71
21	B	1231	CLA	CMD-C2D-C1D	8.16	139.10	124.71
21	B	1230	CLA	CMD-C2D-C1D	8.16	139.10	124.71
21	B	1222	CLA	CMD-C2D-C1D	8.16	139.10	124.71
21	B	1234	CLA	CMD-C2D-C1D	8.16	139.09	124.71
21	3	3005	CLA	CMD-C2D-C1D	8.16	139.09	124.71
21	2	2004	CLA	CMD-C2D-C1D	8.16	139.09	124.71
21	4	4001	CLA	CMD-C2D-C1D	8.16	139.09	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1102	CLA	CMD-C2D-C1D	8.15	139.09	124.71
21	B	1202	CLA	CMD-C2D-C1D	8.15	139.08	124.71
21	J	6014	CLA	CMD-C2D-C1D	8.15	139.08	124.71
21	A	1103	CLA	CMD-C2D-C1D	8.15	139.07	124.71
21	B	1204	CLA	CMD-C2D-C1D	8.15	139.07	124.71
21	F	1301	CLA	CMD-C2D-C1D	8.15	139.07	124.71
21	A	1135	CLA	CMD-C2D-C1D	8.14	139.06	124.71
21	A	1120	CLA	CMD-C2D-C1D	8.14	139.06	124.71
21	A	1116	CLA	CMD-C2D-C1D	8.13	139.04	124.71
21	A	1119	CLA	CMD-C2D-C1D	8.13	139.04	124.71
21	B	1205	CLA	CMD-C2D-C1D	8.13	139.03	124.71
19	F	6016	BCR	C20-C19-C18	8.13	149.24	126.42
21	3	3006	CLA	CMD-C2D-C1D	8.13	139.03	124.71
21	A	1105	CLA	CMD-C2D-C1D	8.12	139.02	124.71
21	2	2002	CLA	CMD-C2D-C1D	8.12	139.02	124.71
21	A	1117	CLA	CMD-C2D-C1D	8.12	139.02	124.71
21	A	1128	CLA	CMD-C2D-C1D	8.11	139.01	124.71
21	A	1134	CLA	CMD-C2D-C1D	8.11	139.01	124.71
21	A	1142	CLA	CMD-C2D-C1D	8.11	139.00	124.71
21	1	1007	CLA	C2D-C1D-ND	8.10	116.08	110.10
21	B	1212	CLA	CMD-C2D-C1D	8.10	138.99	124.71
21	A	1114	CLA	CMD-C2D-C1D	8.10	138.99	124.71
21	H	1000	CLA	CMD-C2D-C1D	8.10	138.99	124.71
21	3	3016	CLA	CMD-C2D-C1D	8.10	138.98	124.71
21	A	1140	CLA	CMD-C2D-C1D	8.09	138.98	124.71
21	3	3015	CLA	CMD-C2D-C1D	8.09	138.98	124.71
21	A	1126	CLA	CMD-C2D-C1D	8.09	138.97	124.71
21	A	1101	CLA	CMD-C2D-C1D	8.09	138.97	124.71
21	B	1237	CLA	CMD-C2D-C1D	8.09	138.97	124.71
21	A	1110	CLA	CMD-C2D-C1D	8.09	138.97	124.71
21	B	1236	CLA	CMD-C2D-C1D	8.09	138.96	124.71
21	B	1207	CLA	CMD-C2D-C1D	8.08	138.95	124.71
21	1	1010	CLA	CMD-C2D-C1D	8.08	138.95	124.71
21	B	1220	CLA	CMD-C2D-C1D	8.07	138.94	124.71
21	B	1228	CLA	CMD-C2D-C1D	8.07	138.93	124.71
19	A	6011	BCR	C20-C19-C18	8.07	149.08	126.42
21	L	1501	CLA	CMD-C2D-C1D	8.07	138.93	124.71
21	B	1235	CLA	CMD-C2D-C1D	8.06	138.92	124.71
21	A	1124	CLA	CMD-C2D-C1D	8.06	138.92	124.71
21	A	1137	CLA	CMD-C2D-C1D	8.06	138.91	124.71
21	B	1203	CLA	CMD-C2D-C1D	8.05	138.90	124.71
26	1	1502	LUT	C21-C26-C27	8.05	122.87	112.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1213	CLA	CMD-C2D-C1D	8.05	138.90	124.71
21	B	1201	CLA	CMD-C2D-C1D	8.05	138.89	124.71
21	B	1224	CLA	CMD-C2D-C1D	8.04	138.89	124.71
21	3	3010	CLA	CMD-C2D-C1D	8.03	138.87	124.71
21	A	1130	CLA	CMD-C2D-C1D	8.03	138.87	124.71
21	3	3001	CLA	C2D-C1D-ND	8.03	116.02	110.10
21	A	1113	CLA	CMD-C2D-C1D	8.02	138.86	124.71
21	B	1206	CLA	CMD-C2D-C1D	8.02	138.85	124.71
21	J	1302	CLA	CMD-C2D-C1D	8.02	138.85	124.71
21	B	1216	CLA	CMD-C2D-C1D	8.01	138.84	124.71
21	B	1239	CLA	CMD-C2D-C1D	8.01	138.83	124.71
21	B	1239	CLA	C2D-C1D-ND	8.01	116.01	110.10
21	B	9010	CLA	C4A-NA-C1A	8.00	110.30	106.71
21	A	1136	CLA	CMD-C2D-C1D	8.00	138.82	124.71
21	4	4002	CLA	C2C-C1C-NC	8.00	117.47	109.97
21	B	1217	CLA	CMD-C2D-C1D	7.99	138.80	124.71
21	L	1503	CLA	CMD-C2D-C1D	7.99	138.80	124.71
21	B	1219	CLA	CMD-C2D-C1D	7.97	138.76	124.71
21	2	2003	CLA	C4A-NA-C1A	7.97	110.29	106.71
21	B	1240	CLA	C4A-NA-C1A	7.91	110.26	106.71
21	B	1215	CLA	CMD-C2D-C1D	7.91	138.65	124.71
21	2	2011	CLA	CMD-C2D-C1D	7.89	138.62	124.71
21	B	1209	CLA	CMD-C2D-C1D	7.89	138.61	124.71
19	B	6006	BCR	C20-C19-C18	7.88	148.56	126.42
21	2	2007	CLA	CMD-C2D-C1D	7.87	138.58	124.71
19	A	6017	BCR	C11-C10-C9	7.87	138.54	127.31
21	B	1229	CLA	CMD-C2D-C1D	7.85	138.55	124.71
21	A	1133	CLA	CMD-C2D-C1D	7.85	138.55	124.71
21	3	3013	CLA	CMD-C2D-C1D	7.82	138.49	124.71
19	J	6013	BCR	C20-C19-C18	7.82	148.38	126.42
21	A	1125	CLA	C4A-NA-C1A	7.81	110.22	106.71
21	1	1003	CLA	CMD-C2D-C1D	7.80	138.47	124.71
21	A	1121	CLA	C2D-C1D-ND	7.79	115.85	110.10
21	A	1115	CLA	CMD-C2D-C1D	7.78	138.43	124.71
21	2	2013	CLA	CMD-C2D-C1D	7.78	138.43	124.71
21	3	3012	CLA	O2D-CGD-CBD	7.78	125.09	111.27
21	B	1225	CLA	CMD-C2D-C1D	7.77	138.41	124.71
21	A	9012	CLA	C2D-C1D-ND	7.77	115.83	110.10
21	1	1010	CLA	C2D-C1D-ND	7.77	115.83	110.10
21	1	1014	CLA	CMD-C2D-C1D	7.76	138.40	124.71
21	A	1106	CLA	CMD-C2D-C1D	7.74	138.36	124.71
21	2	2013	CLA	C4A-NA-C1A	7.71	110.17	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	1	1013	CLA	C2D-C1D-ND	7.66	115.75	110.10
21	B	1227	CLA	C4A-NA-C1A	7.65	110.14	106.71
21	4	4012	CLA	CMD-C2D-C1D	7.64	138.18	124.71
19	B	6004	BCR	C24-C23-C22	-7.64	114.69	126.23
21	2	2008	CLA	C2D-C1D-ND	7.62	115.72	110.10
19	A	6002	BCR	C20-C19-C18	7.62	147.83	126.42
21	A	1127	CLA	CMD-C2D-C1D	7.62	138.15	124.71
21	4	4012	CLA	O2A-C1-C2	7.62	128.66	108.64
21	F	1302	CLA	CMD-C2D-C1D	7.61	138.13	124.71
21	3	3009	CLA	C4A-NA-C1A	7.61	110.13	106.71
21	A	1132	CLA	CMD-C2D-C1D	7.60	138.11	124.71
21	1	1012	CLA	C4A-NA-C1A	7.59	110.12	106.71
21	4	4008	CLA	C2C-C1C-NC	7.58	117.08	109.97
21	4	4008	CLA	C4A-NA-C1A	7.55	110.10	106.71
21	B	1227	CLA	C2D-C1D-ND	7.53	115.65	110.10
21	A	1125	CLA	CMD-C2D-C1D	7.53	137.98	124.71
21	B	9023	CLA	C4A-NA-C1A	7.53	110.09	106.71
21	B	9023	CLA	CMD-C2D-C1D	7.52	137.97	124.71
21	4	4004	CLA	CMD-C2D-C1D	7.52	137.97	124.71
19	B	6004	BCR	C20-C19-C18	7.51	147.51	126.42
19	I	6018	BCR	C20-C19-C18	7.50	147.48	126.42
21	2	2007	CLA	C4A-NA-C1A	7.49	110.08	106.71
21	B	1240	CLA	CMD-C2D-C1D	7.49	137.91	124.71
21	4	4011	CLA	C2C-C1C-NC	7.48	116.98	109.97
23	A	9011	CL0	CMD-C2D-C1D	7.48	137.89	124.71
21	2	2009	CLA	CMD-C2D-C1D	7.48	137.89	124.71
21	3	3008	CLA	C4A-NA-C1A	7.47	110.06	106.71
21	2	2014	CLA	C2C-C1C-NC	7.45	116.95	109.97
21	A	1125	CLA	C2D-C1D-ND	7.45	115.59	110.10
21	A	9013	CLA	C2D-C1D-ND	7.44	115.59	110.10
21	2	2009	CLA	C2D-C1D-ND	7.44	115.58	110.10
21	1	1008	CLA	CMD-C2D-C1D	7.43	137.81	124.71
19	J	6013	BCR	C7-C8-C9	-7.43	115.01	126.23
21	3	3012	CLA	C2C-C1C-NC	7.43	116.93	109.97
21	A	1118	CLA	C2C-C1C-NC	7.43	116.93	109.97
21	B	1221	CLA	CMD-C2D-C1D	7.42	137.78	124.71
21	2	2005	CLA	C2D-C1D-ND	7.41	115.56	110.10
21	G	1001	CLA	C2D-C1D-ND	7.40	115.56	110.10
26	4	4502	LUT	C7-C8-C9	-7.39	115.07	126.23
21	1	1002	CLA	C4A-NA-C1A	7.39	110.03	106.71
21	B	1229	CLA	C2D-C1D-ND	7.39	115.55	110.10
21	1	1014	CLA	C4A-NA-C1A	7.38	110.02	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	3	3014	CLA	C2D-C1D-ND	7.37	115.53	110.10
21	4	4006	CLA	C1D-ND-C4D	-7.36	101.11	106.33
21	3	3010	CLA	C4A-NA-C1A	7.35	110.01	106.71
21	B	9010	CLA	C2D-C1D-ND	7.34	115.51	110.10
21	4	4004	CLA	C4A-NA-C1A	7.33	110.00	106.71
21	1	1004	CLA	CMD-C2D-C1D	7.33	137.63	124.71
21	1	1005	CLA	C4A-NA-C1A	7.33	110.00	106.71
21	4	4002	CLA	C2D-C1D-ND	7.33	115.50	110.10
19	A	6008	BCR	C20-C19-C18	7.31	146.96	126.42
21	1	1007	CLA	C1D-ND-C4D	-7.30	101.15	106.33
21	H	1000	CLA	C2C-C1C-NC	7.28	116.79	109.97
21	1	1001	CLA	C2C-C1C-NC	7.28	116.79	109.97
19	B	6009	BCR	C20-C19-C18	7.26	146.82	126.42
21	3	3012	CLA	C4A-NA-C1A	7.26	109.97	106.71
21	2	2014	CLA	CMD-C2D-C1D	7.25	137.50	124.71
21	B	1226	CLA	C2C-C1C-NC	7.25	116.76	109.97
21	3	3010	CLA	C2D-C1D-ND	7.24	115.44	110.10
21	A	1131	CLA	C4A-NA-C1A	7.24	109.96	106.71
19	B	6010	BCR	C20-C19-C18	7.22	146.69	126.42
21	A	1115	CLA	C2D-C1D-ND	7.20	115.41	110.10
21	B	1227	CLA	CMD-C2D-C1D	7.20	137.40	124.71
21	1	1008	CLA	C2D-C1D-ND	7.19	115.41	110.10
21	B	1208	CLA	C2D-C1D-ND	7.19	115.40	110.10
21	B	1236	CLA	C2D-C1D-ND	7.18	115.40	110.10
21	B	1202	CLA	C2D-C1D-ND	7.18	115.39	110.10
21	A	1104	CLA	C2D-C1D-ND	7.18	115.39	110.10
21	4	4009	CLA	C2D-C1D-ND	7.18	115.39	110.10
21	A	1106	CLA	C2D-C1D-ND	7.17	115.39	110.10
21	B	1218	CLA	C2D-C1D-ND	7.17	115.39	110.10
21	B	1223	CLA	C2D-C1D-ND	7.16	115.38	110.10
21	B	1230	CLA	C2D-C1D-ND	7.16	115.38	110.10
21	A	1131	CLA	CMD-C2D-C1D	7.16	137.33	124.71
19	L	6020	BCR	C20-C19-C18	7.16	146.52	126.42
21	3	3009	CLA	C2D-C1D-ND	7.13	115.36	110.10
21	B	1214	CLA	C2D-C1D-ND	7.13	115.36	110.10
21	J	6015	CLA	C2C-C1C-NC	7.13	116.65	109.97
21	A	1121	CLA	CMD-C2D-C1D	7.12	137.25	124.71
21	B	1203	CLA	C2D-C1D-ND	7.11	115.35	110.10
21	B	1209	CLA	C2D-C1D-ND	7.11	115.35	110.10
21	B	1206	CLA	C2C-C1C-NC	7.11	116.64	109.97
21	A	1128	CLA	C4A-NA-C1A	7.09	109.89	106.71
21	A	1141	CLA	C2D-C1D-ND	7.09	115.33	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	4	4013	CLA	CMD-C2D-C1D	7.08	137.19	124.71
21	1	1006	CLA	C2C-C1C-NC	7.08	116.61	109.97
21	2	2012	CLA	C2D-C1D-ND	7.07	115.32	110.10
21	1	1003	CLA	C2C-C1C-NC	7.06	116.59	109.97
21	F	1302	CLA	C2D-C1D-ND	7.06	115.31	110.10
21	2	2008	CLA	O2D-CGD-CBD	7.05	123.80	111.27
21	4	4012	CLA	C2D-C1D-ND	7.05	115.30	110.10
21	3	3011	CLA	C2D-C1D-ND	7.05	115.30	110.10
19	F	6014	BCR	C20-C19-C18	7.04	146.20	126.42
21	2	2011	CLA	O2A-C1-C2	7.04	127.13	108.64
21	A	1105	CLA	C2D-C1D-ND	7.03	115.29	110.10
21	B	1215	CLA	C2D-C1D-ND	7.02	115.28	110.10
21	4	4010	CLA	C2D-C1D-ND	7.01	115.27	110.10
21	2	2004	CLA	C4A-NA-C1A	7.01	109.86	106.71
21	3	3012	CLA	C1C-C2C-C3C	-7.01	99.59	106.96
21	B	1201	CLA	C2D-C1D-ND	7.00	115.27	110.10
21	4	4005	CLA	C2C-C1C-NC	7.00	116.53	109.97
21	A	9012	CLA	C4A-NA-C1A	6.99	109.85	106.71
21	B	1207	CLA	C2C-C1C-NC	6.99	116.52	109.97
21	3	3014	CLA	C2C-C1C-NC	6.98	116.52	109.97
21	L	1503	CLA	C4A-NA-C1A	6.98	109.84	106.71
21	1	1009	CLA	O2D-CGD-CBD	6.98	123.67	111.27
21	B	9023	CLA	C2D-C1D-ND	6.97	115.24	110.10
21	4	4004	CLA	O2D-CGD-CBD	6.97	123.66	111.27
21	2	2006	CLA	C4A-NA-C1A	6.97	109.84	106.71
21	B	9022	CLA	C2C-C1C-NC	6.97	116.50	109.97
21	L	1501	CLA	C4A-NA-C1A	6.96	109.84	106.71
21	2	2003	CLA	C2C-C1C-NC	6.96	116.49	109.97
21	A	1113	CLA	C2D-C1D-ND	6.95	115.23	110.10
21	4	4006	CLA	CHD-C1D-ND	-6.95	118.06	124.45
19	A	6011	BCR	C40-C30-C29	-6.95	81.11	108.91
21	B	9022	CLA	CMD-C2D-C1D	6.94	136.95	124.71
21	4	4003	CLA	C4A-NA-C1A	6.93	109.82	106.71
21	B	1226	CLA	C2D-C1D-ND	6.93	115.21	110.10
21	4	4010	CLA	C2C-C1C-NC	6.93	116.46	109.97
21	F	1303	CLA	CMD-C2D-C1D	6.92	136.92	124.71
21	2	2004	CLA	C2D-C1D-ND	6.92	115.20	110.10
21	B	1226	CLA	CMD-C2D-C1D	6.91	136.90	124.71
21	B	1235	CLA	C2D-C1D-ND	6.91	115.20	110.10
21	A	1109	CLA	C2D-C1D-ND	6.91	115.19	110.10
21	F	1301	CLA	C2D-C1D-ND	6.91	115.19	110.10
21	1	1011	CLA	C2D-C1D-ND	6.91	115.19	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	J	6014	CLA	C2D-C1D-ND	6.90	115.19	110.10
21	2	2012	CLA	C4A-NA-C1A	6.90	109.81	106.71
21	A	1123	CLA	C2D-C1D-ND	6.90	115.19	110.10
21	1	1006	CLA	C4A-NA-C1A	6.90	109.81	106.71
21	B	1223	CLA	C2C-C1C-NC	6.90	116.43	109.97
21	A	1116	CLA	C2D-C1D-ND	6.89	115.19	110.10
21	A	1102	CLA	C2D-C1D-ND	6.89	115.18	110.10
21	G	1002	CLA	C2C-C1C-NC	6.89	116.42	109.97
21	2	2011	CLA	C4A-NA-C1A	6.89	109.80	106.71
21	B	1240	CLA	C2D-C1D-ND	6.89	115.18	110.10
19	A	6007	BCR	C7-C8-C9	-6.88	115.84	126.23
21	1	1005	CLA	C2D-C1D-ND	6.88	115.17	110.10
21	B	1220	CLA	C2D-C1D-ND	6.87	115.17	110.10
21	1	1011	CLA	C2C-C1C-NC	6.87	116.41	109.97
21	2	2007	CLA	C2C-C1C-NC	6.86	116.40	109.97
21	4	4013	CLA	C2D-C1D-ND	6.86	115.16	110.10
21	A	1139	CLA	C2D-C1D-ND	6.86	115.16	110.10
21	A	1108	CLA	C2D-C1D-ND	6.85	115.16	110.10
21	A	1135	CLA	C2D-C1D-ND	6.85	115.16	110.10
21	3	3011	CLA	O2D-CGD-CBD	6.85	123.44	111.27
21	2	2011	CLA	O2A-CGA-O1A	-6.84	106.32	123.59
21	B	1221	CLA	C2D-C1D-ND	6.84	115.15	110.10
21	2	2013	CLA	C2D-C1D-ND	6.84	115.15	110.10
21	3	3004	CLA	C2D-C1D-ND	6.84	115.14	110.10
21	2	2011	CLA	C2C-C1C-NC	6.83	116.37	109.97
21	A	1143	CLA	C2D-C1D-ND	6.83	115.14	110.10
19	F	6014	BCR	C40-C30-C25	6.82	121.36	110.30
21	A	1101	CLA	C2D-C1D-ND	6.82	115.13	110.10
21	B	1222	CLA	C2D-C1D-ND	6.82	115.13	110.10
21	B	1234	CLA	C2D-C1D-ND	6.82	115.13	110.10
21	A	1112	CLA	C2D-C1D-ND	6.81	115.12	110.10
21	A	9013	CLA	C2C-C1C-NC	6.81	116.35	109.97
21	A	1124	CLA	C2D-C1D-ND	6.80	115.12	110.10
21	3	3008	CLA	C2C-C1C-NC	6.80	116.34	109.97
21	A	1135	CLA	C2C-C1C-NC	6.80	116.34	109.97
21	3	3005	CLA	C2D-C1D-ND	6.79	115.11	110.10
19	F	6016	BCR	C40-C30-C29	-6.79	81.74	108.91
21	3	3002	CLA	C2D-C1D-ND	6.79	115.11	110.10
21	A	1126	CLA	C2D-C1D-ND	6.79	115.11	110.10
21	A	1134	CLA	C2D-C1D-ND	6.79	115.11	110.10
21	A	1127	CLA	C2D-C1D-ND	6.78	115.10	110.10
21	3	3015	CLA	C2D-C1D-ND	6.78	115.10	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	J	6013	BCR	C15-C14-C13	-6.77	117.65	127.31
21	B	1221	CLA	C2C-C1C-NC	6.76	116.31	109.97
21	A	1107	CLA	C2D-C1D-ND	6.75	115.08	110.10
21	4	4001	CLA	C2D-C1D-ND	6.75	115.08	110.10
21	4	4004	CLA	C2D-C1D-ND	6.74	115.07	110.10
21	A	1136	CLA	C2D-C1D-ND	6.73	115.06	110.10
19	L	6019	BCR	C20-C19-C18	6.72	145.30	126.42
21	B	1210	CLA	C2D-C1D-ND	6.72	115.06	110.10
21	B	1227	CLA	O2D-CGD-CBD	6.72	123.21	111.27
21	L	1502	CLA	C2D-C1D-ND	6.72	115.06	110.10
21	3	3006	CLA	C2D-C1D-ND	6.72	115.06	110.10
21	1	1014	CLA	C2C-C1C-NC	6.72	116.27	109.97
21	4	4013	CLA	C4A-NA-C1A	6.72	109.72	106.71
21	B	1240	CLA	C2C-C1C-NC	6.71	116.26	109.97
21	A	1137	CLA	C2D-C1D-ND	6.71	115.05	110.10
21	B	1204	CLA	C2D-C1D-ND	6.71	115.05	110.10
21	3	3016	CLA	C2D-C1D-ND	6.71	115.05	110.10
19	F	6014	BCR	C39-C30-C29	-6.71	82.07	108.91
21	J	1302	CLA	C2C-C1C-NC	6.71	116.26	109.97
21	A	1119	CLA	C2D-C1D-ND	6.71	115.05	110.10
21	J	6015	CLA	C4A-NA-C1A	6.71	109.72	106.71
21	4	4003	CLA	CMD-C2D-C1D	6.70	136.53	124.71
21	4	4013	CLA	O2D-CGD-CBD	6.70	123.17	111.27
21	L	1502	CLA	C4A-NA-C1A	6.70	109.72	106.71
21	A	1120	CLA	C2D-C1D-ND	6.70	115.04	110.10
21	A	1113	CLA	C2C-C1C-NC	6.70	116.25	109.97
21	4	4014	CLA	CHD-C1D-ND	-6.69	118.30	124.45
21	4	4007	CLA	C2C-C1C-NC	6.69	116.24	109.97
21	A	1111	CLA	C2D-C1D-ND	6.69	115.04	110.10
21	A	1138	CLA	C2D-C1D-ND	6.69	115.04	110.10
21	A	1114	CLA	C2D-C1D-ND	6.68	115.03	110.10
21	B	1219	CLA	C2D-C1D-ND	6.68	115.03	110.10
21	B	1217	CLA	C2C-C1C-NC	6.68	116.23	109.97
21	A	1140	CLA	C2D-C1D-ND	6.68	115.02	110.10
21	B	1225	CLA	C2D-C1D-ND	6.67	115.02	110.10
19	A	6007	BCR	C20-C19-C18	6.67	145.16	126.42
21	3	3016	CLA	C2C-C1C-NC	6.67	116.22	109.97
21	B	1217	CLA	C2D-C1D-ND	6.67	115.02	110.10
21	A	1133	CLA	C4A-NA-C1A	6.67	109.70	106.71
21	2	2001	CLA	C4A-NA-C1A	6.67	109.70	106.71
21	B	1205	CLA	C2C-C1C-NC	6.67	116.22	109.97
21	2	2004	CLA	O2A-C1-C2	6.66	126.13	108.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	2	2002	CLA	C2C-C1C-NC	6.66	116.21	109.97
21	2	2003	CLA	CHD-C1D-ND	-6.65	118.34	124.45
21	A	1128	CLA	C2D-C1D-ND	6.65	115.00	110.10
21	B	1212	CLA	C2D-C1D-ND	6.65	115.00	110.10
21	3	3009	CLA	C2C-C1C-NC	6.64	116.20	109.97
21	B	1227	CLA	C2C-C1C-NC	6.64	116.19	109.97
21	2	2006	CLA	C2D-C1D-ND	6.63	114.99	110.10
21	B	1237	CLA	C2D-C1D-ND	6.63	114.99	110.10
21	A	1134	CLA	C2C-C1C-NC	6.63	116.18	109.97
21	B	9010	CLA	CMD-C2D-C1D	6.62	136.38	124.71
19	A	6017	BCR	C11-C12-C13	6.62	145.01	126.42
21	F	1301	CLA	C2C-C1C-NC	6.62	116.17	109.97
19	A	6003	BCR	C20-C19-C18	6.62	145.00	126.42
21	A	1142	CLA	C2D-C1D-ND	6.61	114.98	110.10
21	3	3017	CLA	C2C-C1C-NC	6.61	116.17	109.97
26	1	1502	LUT	C11-C10-C9	-6.61	117.88	127.31
21	A	1117	CLA	C2D-C1D-ND	6.61	114.97	110.10
21	3	3010	CLA	C2C-C1C-NC	6.61	116.16	109.97
21	A	1122	CLA	C2D-C1D-ND	6.60	114.97	110.10
21	A	1137	CLA	C2C-C1C-NC	6.60	116.15	109.97
21	3	3001	CLA	C1D-ND-C4D	-6.59	101.66	106.33
21	A	9012	CLA	CMD-C2D-C1D	6.59	136.32	124.71
21	B	1210	CLA	C2C-C1C-NC	6.58	116.13	109.97
21	A	9013	CLA	CMD-C2D-C1D	6.58	136.30	124.71
21	A	1123	CLA	C2C-C1C-NC	6.57	116.13	109.97
21	A	1139	CLA	C2C-C1C-NC	6.56	116.12	109.97
21	B	1231	CLA	C2D-C1D-ND	6.56	114.94	110.10
21	B	1234	CLA	C2C-C1C-NC	6.56	116.11	109.97
21	A	1129	CLA	C4A-NA-C1A	6.55	109.65	106.71
21	A	1142	CLA	C2C-C1C-NC	6.55	116.10	109.97
19	I	6018	BCR	C40-C30-C29	-6.54	82.73	108.91
21	L	1501	CLA	C2D-C1D-ND	6.54	114.92	110.10
21	A	1131	CLA	C2D-C1D-ND	6.54	114.92	110.10
21	B	1216	CLA	C2D-C1D-ND	6.54	114.92	110.10
21	B	1231	CLA	C2C-C1C-NC	6.54	116.10	109.97
21	4	4008	CLA	O2A-CGA-O1A	-6.54	107.09	123.59
21	A	1103	CLA	C2D-C1D-ND	6.54	114.92	110.10
21	B	1238	CLA	C2D-C1D-ND	6.54	114.92	110.10
21	4	4012	CLA	C4A-NA-C1A	6.53	109.64	106.71
21	A	1104	CLA	C2C-C1C-NC	6.52	116.08	109.97
19	A	6008	BCR	C40-C30-C29	-6.52	82.83	108.91
21	B	9022	CLA	C2D-C1D-ND	6.52	114.91	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	4	4013	CLA	C2C-C1C-NC	6.52	116.08	109.97
21	4	4011	CLA	C1C-C2C-C3C	-6.52	100.11	106.96
21	B	1205	CLA	C2D-C1D-ND	6.52	114.91	110.10
21	A	1129	CLA	C2D-C1D-ND	6.51	114.90	110.10
21	B	1202	CLA	C2C-C1C-NC	6.51	116.07	109.97
21	A	1140	CLA	C2C-C1C-NC	6.50	116.07	109.97
21	2	2009	CLA	C4A-NA-C1A	6.50	109.63	106.71
21	H	1000	CLA	C2D-C1D-ND	6.50	114.89	110.10
21	4	4003	CLA	C2D-C1D-ND	6.50	114.89	110.10
21	F	1302	CLA	C2C-C1C-NC	6.50	116.06	109.97
21	3	3004	CLA	C2C-C1C-NC	6.50	116.06	109.97
21	A	1114	CLA	C2C-C1C-NC	6.49	116.05	109.97
21	A	1120	CLA	C2C-C1C-NC	6.49	116.05	109.97
19	F	6014	BCR	C39-C30-C25	6.49	120.83	110.30
21	A	1119	CLA	C2C-C1C-NC	6.49	116.05	109.97
19	A	6007	BCR	C15-C14-C13	-6.49	118.05	127.31
21	B	1224	CLA	C2D-C1D-ND	6.49	114.88	110.10
21	3	3015	CLA	C2C-C1C-NC	6.48	116.04	109.97
21	B	1228	CLA	C2D-C1D-ND	6.48	114.88	110.10
21	L	1503	CLA	C2D-C1D-ND	6.48	114.88	110.10
21	B	1215	CLA	C2C-C1C-NC	6.48	116.04	109.97
21	3	3014	CLA	CHD-C1D-ND	-6.47	118.51	124.45
21	A	1110	CLA	C2D-C1D-ND	6.46	114.87	110.10
21	A	1121	CLA	C2C-C1C-NC	6.46	116.02	109.97
21	B	1225	CLA	C2C-C1C-NC	6.46	116.02	109.97
21	A	1110	CLA	C2C-C1C-NC	6.46	116.02	109.97
19	B	6006	BCR	C40-C30-C29	-6.45	83.11	108.91
21	A	1109	CLA	C2C-C1C-NC	6.45	116.01	109.97
21	3	3006	CLA	C2C-C1C-NC	6.44	116.01	109.97
19	B	6006	BCR	C7-C8-C9	-6.44	116.51	126.23
21	1	1014	CLA	C2D-C1D-ND	6.44	114.85	110.10
21	1	1009	CLA	CMB-C2B-C3B	6.44	136.72	124.68
21	1	1003	CLA	C4A-NA-C1A	6.43	109.60	106.71
21	4	4010	CLA	C4A-NA-C1A	6.43	109.60	106.71
21	3	3002	CLA	C2C-C1C-NC	6.43	115.99	109.97
21	A	1143	CLA	C2C-C1C-NC	6.42	115.99	109.97
21	B	1211	CLA	C2D-C1D-ND	6.42	114.83	110.10
21	B	1236	CLA	C2C-C1C-NC	6.42	115.98	109.97
21	2	2005	CLA	C2C-C1C-NC	6.41	115.98	109.97
21	B	1216	CLA	C2C-C1C-NC	6.41	115.97	109.97
21	A	1130	CLA	C2D-C1D-ND	6.40	114.82	110.10
21	3	3008	CLA	C2D-C1D-ND	6.40	114.82	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	4	4013	CLA	C1C-C2C-C3C	-6.39	100.23	106.96
19	A	6002	BCR	C24-C23-C22	-6.39	116.57	126.23
21	L	1503	CLA	C2C-C1C-NC	6.39	115.96	109.97
21	A	1130	CLA	C4A-NA-C1A	6.39	109.58	106.71
21	A	1102	CLA	C2C-C1C-NC	6.39	115.95	109.97
21	2	2012	CLA	C2C-C1C-NC	6.38	115.95	109.97
21	J	6014	CLA	C2C-C1C-NC	6.37	115.94	109.97
21	B	1224	CLA	C2C-C1C-NC	6.37	115.94	109.97
21	3	3005	CLA	C2C-C1C-NC	6.37	115.94	109.97
21	A	1117	CLA	C2C-C1C-NC	6.37	115.94	109.97
21	A	1118	CLA	C2D-C1D-ND	6.36	114.79	110.10
21	B	1206	CLA	C2D-C1D-ND	6.35	114.78	110.10
21	A	1124	CLA	C2C-C1C-NC	6.34	115.92	109.97
21	B	1212	CLA	C2C-C1C-NC	6.34	115.92	109.97
21	B	1229	CLA	C2C-C1C-NC	6.34	115.91	109.97
21	2	2004	CLA	C2C-C1C-NC	6.34	115.91	109.97
23	A	9011	CL0	C2C-C1C-NC	6.34	115.91	109.97
21	A	1111	CLA	O2A-C1-C2	6.34	125.29	108.64
21	A	1132	CLA	C2D-C1D-ND	6.33	114.77	110.10
21	B	1219	CLA	C2C-C1C-NC	6.33	115.91	109.97
21	G	1002	CLA	C2D-C1D-ND	6.33	114.77	110.10
21	3	3001	CLA	O2D-CGD-CBD	6.31	122.47	111.27
21	J	1302	CLA	C2D-C1D-ND	6.30	114.75	110.10
21	B	1203	CLA	C2C-C1C-NC	6.30	115.88	109.97
21	3	3003	CLA	C1D-ND-C4D	-6.30	101.86	106.33
21	B	1220	CLA	C2C-C1C-NC	6.30	115.87	109.97
21	4	4005	CLA	CAC-C3C-C4C	6.30	132.98	124.81
21	A	1101	CLA	C2C-C1C-NC	6.30	115.87	109.97
21	A	1136	CLA	C2C-C1C-NC	6.30	115.87	109.97
21	A	1108	CLA	C2C-C1C-NC	6.29	115.87	109.97
21	B	1218	CLA	C2C-C1C-NC	6.29	115.86	109.97
21	2	2006	CLA	C2C-C1C-NC	6.29	115.86	109.97
21	A	1131	CLA	O2D-CGD-CBD	6.28	122.44	111.27
21	A	1102	CLA	O2D-CGD-CBD	6.28	122.43	111.27
21	2	2010	CLA	C2C-C1C-NC	6.28	115.85	109.97
21	3	3013	CLA	O2D-CGD-CBD	6.28	122.42	111.27
21	1	1006	CLA	C2D-C1D-ND	6.28	114.73	110.10
21	B	1226	CLA	O2A-CGA-O1A	-6.28	107.75	123.59
21	1	1002	CLA	C2C-C1C-NC	6.27	115.85	109.97
21	3	3013	CLA	C1C-C2C-C3C	-6.27	100.36	106.96
21	A	1122	CLA	C2C-C1C-NC	6.27	115.85	109.97
21	1	1011	CLA	O2A-CGA-O1A	-6.27	107.77	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	2	2006	CLA	CHD-C1D-ND	-6.27	118.69	124.45
21	B	1237	CLA	C2C-C1C-NC	6.27	115.84	109.97
21	A	1103	CLA	C2C-C1C-NC	6.26	115.84	109.97
21	A	1141	CLA	C2C-C1C-NC	6.26	115.84	109.97
21	4	4005	CLA	O2A-CGA-O1A	-6.26	107.69	123.30
21	A	1142	CLA	C1B-C2B-C3B	-6.25	101.10	106.92
21	A	1105	CLA	C2C-C1C-NC	6.25	115.83	109.97
21	B	1238	CLA	C2C-C1C-NC	6.25	115.83	109.97
21	B	1207	CLA	C2D-C1D-ND	6.25	114.71	110.10
21	A	1127	CLA	C2C-C1C-NC	6.24	115.82	109.97
21	A	1133	CLA	C2D-C1D-ND	6.24	114.70	110.10
21	1	1004	CLA	O2D-CGD-CBD	6.23	122.33	111.27
21	B	1209	CLA	C2C-C1C-NC	6.22	115.80	109.97
21	B	1204	CLA	C2C-C1C-NC	6.22	115.80	109.97
21	A	1123	CLA	O2D-CGD-CBD	6.21	122.31	111.27
21	4	4009	CLA	C2C-C1C-NC	6.21	115.79	109.97
21	A	1118	CLA	C4A-NA-C1A	6.21	109.50	106.71
21	B	9010	CLA	C2C-C1C-NC	6.21	115.79	109.97
21	L	1501	CLA	C2C-C1C-NC	6.21	115.79	109.97
21	A	1121	CLA	C4A-NA-C1A	6.21	109.50	106.71
19	B	6005	BCR	C15-C14-C13	-6.20	118.46	127.31
21	1	1014	CLA	O2D-CGD-CBD	6.20	122.28	111.27
21	4	4012	CLA	O2A-CGA-O1A	-6.19	107.96	123.59
21	B	1221	CLA	O2D-CGD-CBD	6.19	122.27	111.27
21	A	1111	CLA	C2C-C1C-NC	6.18	115.77	109.97
21	B	1211	CLA	C2C-C1C-NC	6.18	115.76	109.97
21	B	1228	CLA	C4A-NA-C1A	6.18	109.48	106.71
21	A	1133	CLA	C2C-C1C-NC	6.18	115.76	109.97
21	1	1002	CLA	C1C-C2C-C3C	-6.18	100.46	106.96
21	2	2014	CLA	C2D-C1D-ND	6.18	114.66	110.10
21	B	1238	CLA	O2A-C1-C2	6.17	124.85	108.64
21	2	2004	CLA	O2D-CGD-CBD	6.17	121.78	111.49
21	1	1010	CLA	C2C-C1C-NC	6.16	115.75	109.97
21	B	1226	CLA	O2D-CGD-CBD	6.16	122.22	111.27
26	4	4501	LUT	C21-C26-C27	6.16	120.49	112.70
26	4	4502	LUT	C31-C30-C29	-6.16	118.52	127.31
21	A	1109	CLA	O2A-C1-C2	6.15	124.80	108.64
21	1	1002	CLA	C2D-C1D-ND	6.15	114.64	110.10
21	A	1131	CLA	C2C-C1C-NC	6.15	115.73	109.97
21	1	1012	CLA	C2D-C1D-ND	6.15	114.64	110.10
19	I	6018	BCR	C39-C30-C25	6.15	120.27	110.30
21	B	1221	CLA	C4A-NA-C1A	6.14	109.47	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	9023	CLA	C2C-C1C-NC	6.14	115.72	109.97
21	2	2003	CLA	C2D-C1D-ND	6.14	114.63	110.10
21	B	1208	CLA	C2C-C1C-NC	6.14	115.72	109.97
21	A	1138	CLA	C2C-C1C-NC	6.13	115.72	109.97
21	B	1205	CLA	O2D-CGD-CBD	6.13	122.17	111.27
21	B	1201	CLA	C2C-C1C-NC	6.12	115.71	109.97
26	4	4502	LUT	C37-C21-C26	-6.12	100.27	109.55
21	4	4015	CLA	C2D-C1D-ND	6.12	114.62	110.10
21	B	1230	CLA	C2C-C1C-NC	6.12	115.71	109.97
21	1	1004	CLA	C2C-C1C-NC	6.12	115.71	109.97
21	B	1235	CLA	C2C-C1C-NC	6.12	115.70	109.97
23	A	9011	CL0	C4A-NA-C1A	6.12	109.46	106.71
21	B	1239	CLA	O2D-CGD-CBD	6.11	122.12	111.27
21	3	3013	CLA	C2D-C1D-ND	6.11	114.61	110.10
19	B	6006	BCR	C39-C30-C25	6.11	120.20	110.30
21	B	1222	CLA	C2C-C1C-NC	6.11	115.69	109.97
21	4	4002	CLA	C1C-C2C-C3C	-6.10	100.54	106.96
21	B	1239	CLA	C2C-C1C-NC	6.09	115.68	109.97
21	4	4011	CLA	O2A-CGA-O1A	-6.09	108.23	123.59
21	2	2002	CLA	C2D-C1D-ND	6.08	114.59	110.10
21	G	1001	CLA	O2A-C1-C2	6.07	124.60	108.64
21	A	1107	CLA	C2C-C1C-NC	6.07	115.66	109.97
21	4	4011	CLA	C4A-NA-C1A	6.06	109.43	106.71
21	1	1008	CLA	C2C-C1C-NC	6.06	115.65	109.97
21	A	1121	CLA	O2D-CGD-CBD	6.06	122.03	111.27
21	3	3010	CLA	C1C-C2C-C3C	-6.06	100.59	106.96
21	2	2009	CLA	C2C-C1C-NC	6.05	115.64	109.97
21	A	1116	CLA	C2C-C1C-NC	6.05	115.64	109.97
21	A	1126	CLA	C2C-C1C-NC	6.05	115.64	109.97
21	L	1502	CLA	C2C-C1C-NC	6.05	115.64	109.97
21	3	3013	CLA	C4A-NA-C1A	6.03	109.42	106.71
21	4	4007	CLA	C2D-C1D-ND	6.03	114.55	110.10
19	L	6020	BCR	C24-C23-C22	-6.03	117.13	126.23
21	2	2008	CLA	C3D-C2D-C1D	-6.02	97.61	105.83
21	A	1128	CLA	C2C-C1C-NC	6.02	115.61	109.97
19	J	6012	BCR	C19-C18-C17	6.02	128.18	118.94
21	2	2005	CLA	O2A-C1-C2	6.01	124.44	108.64
21	A	1102	CLA	C4A-NA-C1A	6.01	109.41	106.71
21	3	3001	CLA	C2C-C1C-NC	6.01	115.60	109.97
21	1	1009	CLA	C1C-C2C-C3C	-6.01	100.64	106.96
21	1	1004	CLA	C2D-C1D-ND	6.00	114.53	110.10
21	3	3002	CLA	C4A-NA-C1A	6.00	109.40	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	4	4009	CLA	C1C-C2C-C3C	-6.00	100.65	106.96
19	A	6008	BCR	C39-C30-C25	5.99	120.01	110.30
21	1	1001	CLA	C1C-C2C-C3C	-5.99	100.66	106.96
21	B	1240	CLA	O2D-CGD-CBD	5.98	121.90	111.27
21	3	3001	CLA	C4A-NA-C1A	5.98	109.39	106.71
21	4	4010	CLA	C1C-C2C-C3C	-5.97	100.68	106.96
19	F	6016	BCR	C24-C23-C22	-5.96	117.24	126.23
21	1	1008	CLA	O2D-CGD-CBD	5.95	121.84	111.27
21	A	1129	CLA	C2C-C1C-NC	5.95	115.55	109.97
21	3	3010	CLA	O2A-C1-C2	5.95	124.27	108.64
21	B	1213	CLA	O2A-CGA-O1A	-5.95	108.59	123.59
21	B	1201	CLA	O2D-CGD-CBD	5.94	121.83	111.27
21	A	1106	CLA	C2C-C1C-NC	5.94	115.54	109.97
21	3	3008	CLA	C1C-C2C-C3C	-5.94	100.71	106.96
21	2	2012	CLA	CHD-C1D-ND	-5.94	118.99	124.45
21	1	1011	CLA	O2D-CGD-CBD	5.94	121.82	111.27
21	F	1303	CLA	C2D-C1D-ND	5.94	114.48	110.10
21	A	1130	CLA	C2C-C1C-NC	5.94	115.53	109.97
21	B	1202	CLA	O2A-CGA-O1A	-5.94	108.61	123.59
21	A	1125	CLA	O2A-CGA-O1A	-5.93	108.62	123.59
19	A	6008	BCR	C24-C23-C22	-5.93	117.27	126.23
21	4	4005	CLA	C4A-NA-C1A	5.93	109.37	106.71
21	4	4005	CLA	C1C-C2C-C3C	-5.93	100.72	106.96
21	3	3005	CLA	O2D-CGD-CBD	5.93	121.80	111.27
21	3	3017	CLA	C2D-C1D-ND	5.92	114.47	110.10
21	A	1122	CLA	O2D-CGD-CBD	5.92	121.79	111.27
21	4	4008	CLA	O2D-CGD-CBD	5.92	121.79	111.27
21	A	1115	CLA	C2C-C1C-NC	5.92	115.52	109.97
21	G	1001	CLA	C2C-C1C-NC	5.92	115.52	109.97
21	B	1218	CLA	O2D-CGD-CBD	5.91	121.78	111.27
21	A	1125	CLA	C2C-C1C-NC	5.91	115.51	109.97
21	A	1118	CLA	C1C-C2C-C3C	-5.91	100.75	106.96
21	A	1112	CLA	C2C-C1C-NC	5.91	115.51	109.97
21	B	1227	CLA	C1C-C2C-C3C	-5.89	100.76	106.96
19	A	6007	BCR	C24-C23-C22	-5.89	117.34	126.23
19	J	6012	BCR	C7-C8-C9	-5.89	117.34	126.23
26	1	1502	LUT	C7-C8-C9	-5.89	117.34	126.23
21	1	1003	CLA	C2D-C1D-ND	5.88	114.44	110.10
21	B	1213	CLA	C2C-C1C-NC	5.88	115.48	109.97
21	2	2013	CLA	C2C-C1C-NC	5.88	115.48	109.97
21	B	1230	CLA	O2D-CGD-CBD	5.88	121.71	111.27
21	2	2013	CLA	O2D-CGD-CBD	5.87	121.71	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1214	CLA	C2C-C1C-NC	5.87	115.47	109.97
26	4	4501	LUT	C31-C30-C29	-5.87	118.93	127.31
21	B	1206	CLA	C4A-NA-C1A	5.87	109.34	106.71
21	A	1132	CLA	C4A-NA-C1A	5.86	109.34	106.71
21	2	2007	CLA	C2D-C1D-ND	5.86	114.42	110.10
21	A	1132	CLA	O2A-C1-C2	5.86	124.04	108.64
26	1	1501	LUT	C22-C23-C24	-5.85	105.08	111.74
21	A	1138	CLA	C4A-NA-C1A	5.85	109.34	106.71
21	4	4008	CLA	C2D-C1D-ND	5.85	114.42	110.10
19	A	6011	BCR	C40-C30-C25	5.85	119.79	110.30
21	4	4004	CLA	C2C-C1C-NC	5.85	115.45	109.97
21	A	1132	CLA	C2C-C1C-NC	5.85	115.45	109.97
21	B	1239	CLA	C1D-ND-C4D	-5.84	102.18	106.33
21	3	3003	CLA	C4A-NA-C1A	5.84	109.33	106.71
21	4	4003	CLA	C2C-C1C-NC	5.84	115.44	109.97
21	A	1106	CLA	O2D-CGD-CBD	5.84	121.64	111.27
21	2	2005	CLA	C3D-C2D-C1D	-5.84	97.86	105.83
21	A	9013	CLA	O2A-CGA-O1A	-5.84	108.86	123.59
21	3	3011	CLA	CHD-C1D-ND	-5.83	119.09	124.45
21	4	4008	CLA	C1C-C2C-C3C	-5.83	100.83	106.96
21	4	4002	CLA	C1D-ND-C4D	-5.83	102.19	106.33
19	J	6012	BCR	C24-C23-C22	-5.83	117.43	126.23
21	J	6015	CLA	C1C-C2C-C3C	-5.82	100.83	106.96
26	4	4501	LUT	C7-C8-C9	-5.82	117.45	126.23
21	1	1004	CLA	C4A-NA-C1A	5.81	109.32	106.71
21	A	1132	CLA	O2A-CGA-O1A	-5.81	108.94	123.59
21	3	3008	CLA	CHD-C1D-ND	-5.81	119.12	124.45
21	1	1012	CLA	C2C-C1C-NC	5.80	115.41	109.97
21	3	3002	CLA	O2A-CGA-O1A	-5.80	108.95	123.59
21	3	3014	CLA	C1C-C2C-C3C	-5.80	100.86	106.96
21	2	2013	CLA	O2A-CGA-O1A	-5.79	108.97	123.59
21	2	2012	CLA	C1C-C2C-C3C	-5.79	100.87	106.96
21	A	1101	CLA	O2A-C1-C2	5.79	123.85	108.64
21	1	1007	CLA	C4A-NA-C1A	5.78	109.31	106.71
21	B	1205	CLA	C4A-NA-C1A	5.78	109.30	106.71
19	A	6003	BCR	C24-C23-C22	-5.77	117.51	126.23
19	J	6012	BCR	C20-C19-C18	5.77	142.61	126.42
19	A	6011	BCR	C38-C26-C25	-5.77	118.05	124.53
21	1	1006	CLA	CHD-C1D-ND	-5.76	119.16	124.45
21	A	1109	CLA	C4A-NA-C1A	5.76	109.30	106.71
21	B	1230	CLA	C4A-NA-C1A	5.76	109.30	106.71
21	3	3011	CLA	C1D-ND-C4D	-5.76	102.25	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	G	1002	CLA	C1C-C2C-C3C	-5.76	100.91	106.96
21	1	1005	CLA	C2C-C1C-NC	5.75	115.36	109.97
21	2	2003	CLA	C1D-ND-C4D	-5.75	102.25	106.33
21	3	3008	CLA	O2A-C1-C2	5.75	123.74	108.64
21	4	4006	CLA	C3D-C2D-C1D	-5.75	97.99	105.83
21	A	1140	CLA	O2A-C1-C2	5.75	123.74	108.64
21	1	1011	CLA	C1C-C2C-C3C	-5.75	100.92	106.96
21	4	4006	CLA	C1C-C2C-C3C	-5.75	100.92	106.96
21	B	1239	CLA	C3D-C2D-C1D	-5.74	97.99	105.83
21	4	4001	CLA	O2D-CGD-CBD	5.74	121.46	111.27
27	4	4503	NEX	C2-C1-C6	5.73	114.78	109.21
21	4	4004	CLA	O2A-C1-C2	5.72	123.68	108.64
21	1	1003	CLA	C1C-C2C-C3C	-5.72	100.95	106.96
21	2	2008	CLA	C4A-NA-C1A	5.71	109.28	106.71
21	4	4005	CLA	CHD-C1D-ND	-5.71	119.20	124.45
21	3	3003	CLA	C3D-C2D-C1D	-5.71	98.04	105.83
26	1	1502	LUT	C18-C5-C4	5.71	124.93	114.36
21	B	1206	CLA	C1C-C2C-C3C	-5.71	100.95	106.96
21	1	1006	CLA	C1C-C2C-C3C	-5.71	100.95	106.96
26	2	2501	LUT	C21-C26-C27	5.71	119.92	112.70
21	1	1013	CLA	C1D-ND-C4D	-5.71	102.28	106.33
21	B	1202	CLA	C4A-NA-C1A	5.70	109.27	106.71
21	B	1239	CLA	O2A-CGA-O1A	-5.70	109.20	123.59
21	B	1208	CLA	O2A-C1-C2	5.69	123.58	108.64
21	2	2008	CLA	CHD-C1D-ND	-5.69	119.23	124.45
21	A	1111	CLA	C4A-NA-C1A	5.69	109.26	106.71
19	B	6005	BCR	C20-C19-C18	5.69	142.39	126.42
21	1	1001	CLA	O2A-CGA-O1A	-5.68	109.25	123.59
21	B	1207	CLA	C4A-NA-C1A	5.68	109.26	106.71
21	1	1006	CLA	O2D-CGD-CBD	5.68	121.36	111.27
21	B	1223	CLA	C3D-C2D-C1D	-5.68	98.08	105.83
21	B	1213	CLA	C2D-C1D-ND	5.68	114.29	110.10
21	A	1131	CLA	O2A-CGA-O1A	-5.67	109.27	123.59
21	4	4009	CLA	O2D-CGD-CBD	5.67	121.35	111.27
21	1	1008	CLA	C4A-NA-C1A	5.67	109.26	106.71
21	B	1213	CLA	O2A-C1-C2	5.67	123.54	108.64
21	2	2011	CLA	O2D-CGD-CBD	5.67	121.35	111.27
19	B	6005	BCR	C7-C8-C9	-5.67	117.67	126.23
19	I	6020	BCR	C20-C19-C18	5.67	142.33	126.42
21	B	1226	CLA	O2A-C1-C2	5.66	123.52	108.64
21	A	1118	CLA	O2D-CGD-CBD	5.66	121.32	111.27
21	G	1001	CLA	O2D-CGD-CBD	5.66	121.32	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	J	6015	CLA	O2A-C1-C2	5.66	123.51	108.64
21	2	2002	CLA	O2A-CGA-O1A	-5.66	109.32	123.59
21	B	9010	CLA	C1C-C2C-C3C	-5.66	101.01	106.96
21	4	4001	CLA	C1C-C2C-C3C	-5.65	101.02	106.96
21	1	1003	CLA	O2D-CGD-CBD	5.65	121.30	111.27
21	3	3009	CLA	O2D-CGD-CBD	5.65	121.30	111.27
21	3	3003	CLA	CHD-C1D-ND	-5.65	119.27	124.45
23	A	9011	CL0	C2D-C1D-ND	5.64	114.26	110.10
21	B	1218	CLA	CHD-C1D-ND	-5.64	119.27	124.45
21	4	4009	CLA	C1D-ND-C4D	-5.64	102.33	106.33
21	B	1236	CLA	O2D-CGD-CBD	5.64	121.28	111.27
21	A	1133	CLA	C1C-C2C-C3C	-5.63	101.03	106.96
21	A	1101	CLA	O2A-CGA-O1A	-5.63	109.38	123.59
21	A	1128	CLA	O2D-CGD-CBD	5.63	121.27	111.27
21	2	2004	CLA	O2A-CGA-O1A	-5.63	109.39	123.59
19	A	6017	BCR	C20-C19-C18	5.63	142.22	126.42
21	4	4007	CLA	C1C-C2C-C3C	-5.62	101.04	106.96
21	3	3009	CLA	C1C-C2C-C3C	-5.62	101.05	106.96
21	B	1211	CLA	O2D-CGD-CBD	5.62	121.26	111.27
21	A	1103	CLA	C4A-NA-C1A	5.62	109.23	106.71
21	F	1303	CLA	C2C-C1C-NC	5.62	115.23	109.97
21	2	2014	CLA	O2A-CGA-O1A	-5.62	109.30	123.30
21	3	3012	CLA	CHD-C1D-ND	-5.61	119.30	124.45
21	B	1207	CLA	C1C-C2C-C3C	-5.61	101.06	106.96
21	3	3017	CLA	C1C-C2C-C3C	-5.61	101.06	106.96
21	A	1137	CLA	O2D-CGD-CBD	5.60	121.22	111.27
21	3	3014	CLA	C3D-C2D-C1D	-5.60	98.20	105.83
21	1	1013	CLA	C2C-C1C-NC	5.59	115.21	109.97
26	1	1502	LUT	C1-C6-C5	-5.59	114.74	122.61
21	3	3010	CLA	O2A-CGA-O1A	-5.59	109.49	123.59
21	2	2007	CLA	C1C-C2C-C3C	-5.59	101.08	106.96
21	A	1106	CLA	O2A-C1-C2	5.58	123.30	108.64
21	A	1121	CLA	C1D-ND-C4D	-5.58	102.37	106.33
21	A	1125	CLA	C3D-C2D-C1D	-5.58	98.22	105.83
21	1	1010	CLA	C1D-ND-C4D	-5.58	102.37	106.33
21	4	4012	CLA	C2C-C1C-NC	5.57	115.19	109.97
21	B	9022	CLA	C1C-C2C-C3C	-5.57	101.10	106.96
21	B	1209	CLA	O2D-CGD-CBD	5.57	121.16	111.27
21	H	1000	CLA	C1C-C2C-C3C	-5.56	101.11	106.96
21	1	1004	CLA	C1C-C2C-C3C	-5.56	101.11	106.96
21	2	2012	CLA	C1D-ND-C4D	-5.56	102.39	106.33
21	3	3003	CLA	C2C-C1C-NC	5.55	115.17	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	2	2004	CLA	C1D-C2D-C3D	-5.55	98.83	106.94
21	3	3017	CLA	CHD-C1D-ND	-5.55	119.36	124.45
21	A	1107	CLA	C1D-ND-C4D	-5.55	102.39	106.33
21	A	1107	CLA	O2D-CGD-CBD	5.54	121.11	111.27
19	G	2011	BCR	C20-C19-C18	5.54	141.98	126.42
21	B	1208	CLA	C1D-ND-C4D	-5.54	102.40	106.33
21	3	3009	CLA	C3D-C2D-C1D	-5.54	98.27	105.83
21	B	1213	CLA	C4A-NA-C1A	5.54	109.19	106.71
21	B	1214	CLA	O2A-C1-C2	5.53	123.18	108.64
21	4	4010	CLA	C3D-C2D-C1D	-5.52	98.29	105.83
21	G	1001	CLA	O2A-CGA-O1A	-5.52	109.66	123.59
21	B	1218	CLA	C1D-ND-C4D	-5.52	102.41	106.33
21	A	1117	CLA	O2D-CGD-CBD	5.52	121.07	111.27
21	2	2001	CLA	C1C-NC-C4C	-5.52	104.23	106.71
21	4	4001	CLA	O2A-C1-C2	5.51	123.13	108.64
21	4	4004	CLA	O2A-CGA-O1A	-5.51	109.68	123.59
19	F	6016	BCR	C39-C30-C25	5.51	119.23	110.30
21	A	1137	CLA	C1C-C2C-C3C	-5.51	101.17	106.96
21	2	2014	CLA	C1C-C2C-C3C	-5.51	101.17	106.96
21	B	1214	CLA	C4A-NA-C1A	5.50	109.18	106.71
21	4	4001	CLA	C2C-C1C-NC	5.50	115.13	109.97
21	B	1218	CLA	C1C-C2C-C3C	-5.50	101.17	106.96
21	B	1207	CLA	O2D-CGD-CBD	5.50	121.04	111.27
21	4	4015	CLA	C3D-C2D-C1D	-5.50	98.33	105.83
21	H	1000	CLA	O2D-CGD-CBD	5.49	121.03	111.27
21	3	3014	CLA	C4A-NA-C1A	5.49	109.17	106.71
21	2	2008	CLA	O2A-C1-C2	5.49	123.06	108.64
21	B	1215	CLA	C1C-C2C-C3C	-5.49	101.19	106.96
21	2	2011	CLA	C1C-C2C-C3C	-5.49	101.19	106.96
19	B	6006	BCR	C40-C30-C25	5.48	119.19	110.30
21	B	9010	CLA	O2A-C1-C2	5.48	123.03	108.64
26	4	4502	LUT	C30-C31-C32	5.47	140.29	123.22
21	B	1235	CLA	C4A-NA-C1A	5.47	109.16	106.71
21	B	1202	CLA	C1D-ND-C4D	-5.46	102.45	106.33
21	A	1139	CLA	C4A-NA-C1A	5.46	109.16	106.71
21	G	1001	CLA	C3D-C2D-C1D	-5.46	98.38	105.83
26	1	1501	LUT	C21-C26-C27	5.46	119.61	112.70
21	A	1123	CLA	C4A-NA-C1A	5.46	109.16	106.71
21	B	1236	CLA	C1C-C2C-C3C	-5.45	101.22	106.96
21	2	2009	CLA	C1D-ND-C4D	-5.45	102.46	106.33
21	4	4006	CLA	C2C-C1C-NC	5.45	115.08	109.97
19	B	6005	BCR	C24-C23-C22	-5.45	118.00	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	1	1010	CLA	C3D-C2D-C1D	-5.45	98.40	105.83
21	A	1104	CLA	C1D-ND-C4D	-5.44	102.47	106.33
21	2	2010	CLA	C1C-C2C-C3C	-5.44	101.23	106.96
21	A	1105	CLA	O2A-C1-C2	5.44	122.93	108.64
21	A	1140	CLA	C4A-NA-C1A	5.44	109.15	106.71
21	1	1005	CLA	O2A-CGA-O1A	-5.44	109.87	123.59
21	A	1141	CLA	C1D-ND-C4D	-5.44	102.47	106.33
21	B	1218	CLA	C4A-NA-C1A	5.43	109.15	106.71
21	J	6014	CLA	C4A-NA-C1A	5.43	109.15	106.71
21	4	4010	CLA	O2D-CGD-CBD	5.43	120.92	111.27
19	F	6016	BCR	C40-C30-C25	5.43	119.11	110.30
21	3	3003	CLA	O2A-C1-C2	5.43	122.91	108.64
21	3	3011	CLA	C4A-NA-C1A	5.43	109.15	106.71
21	4	4008	CLA	OBD-CAD-C3D	-5.43	115.46	128.52
21	4	4010	CLA	CHD-C1D-ND	-5.43	119.47	124.45
21	B	1212	CLA	O2D-CGD-CBD	5.42	120.91	111.27
19	B	6009	BCR	C24-C23-C22	-5.42	118.05	126.23
21	A	1135	CLA	C1C-C2C-C3C	-5.42	101.26	106.96
21	A	1101	CLA	C4A-NA-C1A	5.41	109.14	106.71
21	3	3016	CLA	C4A-NA-C1A	5.41	109.14	106.71
21	B	1202	CLA	C1C-C2C-C3C	-5.41	101.27	106.96
21	A	1121	CLA	C1C-C2C-C3C	-5.41	101.27	106.96
21	B	1229	CLA	C1D-ND-C4D	-5.41	102.49	106.33
21	4	4011	CLA	C2D-C1D-ND	5.41	114.09	110.10
21	2	2002	CLA	C1C-C2C-C3C	-5.41	101.27	106.96
21	3	3010	CLA	C3D-C2D-C1D	-5.41	98.45	105.83
21	B	1235	CLA	O2A-CGA-O1A	-5.41	109.95	123.59
21	B	1226	CLA	C1C-C2C-C3C	-5.40	101.28	106.96
21	B	1231	CLA	O2D-CGD-CBD	5.40	120.86	111.27
21	B	1212	CLA	C4A-NA-C1A	5.40	109.13	106.71
21	4	4015	CLA	C4A-NA-C1A	5.40	109.13	106.71
21	1	1011	CLA	C1D-ND-C4D	-5.40	102.50	106.33
21	A	1136	CLA	C4A-NA-C1A	5.39	109.13	106.71
21	A	1107	CLA	O2A-C1-C2	5.39	122.80	108.64
21	B	1237	CLA	O2A-C1-C2	5.38	122.79	108.64
21	4	4011	CLA	CHD-C1D-ND	-5.38	119.51	124.45
21	1	1013	CLA	C3D-C2D-C1D	-5.38	98.48	105.83
21	A	1135	CLA	O2D-CGD-CBD	5.38	120.83	111.27
21	J	6015	CLA	O2D-CGD-CBD	5.38	120.83	111.27
21	1	1012	CLA	O2A-C1-C2	5.38	122.78	108.64
26	4	4502	LUT	C8-C7-C6	5.38	142.31	127.20
21	B	1236	CLA	C4A-NA-C1A	5.38	109.12	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1102	CLA	C1C-C2C-C3C	-5.38	101.30	106.96
21	4	4008	CLA	O2A-CGA-CBA	5.38	128.78	111.91
21	A	9013	CLA	C3D-C2D-C1D	-5.38	98.50	105.83
21	A	1125	CLA	C1C-C2C-C3C	-5.37	101.31	106.96
21	B	1222	CLA	CHD-C1D-ND	-5.37	119.52	124.45
21	A	1141	CLA	CHD-C1D-ND	-5.37	119.52	124.45
21	2	2012	CLA	O2A-C1-C2	5.37	122.75	108.64
21	A	1137	CLA	C4A-NA-C1A	5.37	109.12	106.71
21	B	1223	CLA	C4A-NA-C1A	5.37	109.12	106.71
19	A	6008	BCR	C7-C8-C9	-5.37	118.13	126.23
21	A	1113	CLA	C4A-NA-C1A	5.37	109.12	106.71
21	G	1001	CLA	C1D-ND-C4D	-5.36	102.52	106.33
19	A	6008	BCR	C40-C30-C25	5.36	119.00	110.30
21	B	1228	CLA	CHD-C1D-ND	-5.36	119.53	124.45
21	4	4013	CLA	O2A-CGA-O1A	-5.36	110.07	123.59
21	B	1217	CLA	C1C-C2C-C3C	-5.35	101.33	106.96
21	1	1008	CLA	C3D-C2D-C1D	-5.35	98.53	105.83
21	B	1229	CLA	O2D-CGD-CBD	5.35	120.78	111.27
25	G	2021	LMG	O7-C10-C11	5.35	120.94	111.09
21	4	4005	CLA	O2D-CGD-CBD	5.35	120.78	111.27
21	F	1301	CLA	C4A-NA-C1A	5.35	109.11	106.71
21	B	1209	CLA	C4A-NA-C1A	5.35	109.11	106.71
21	2	2006	CLA	C1C-C2C-C3C	-5.35	101.33	106.96
21	J	6015	CLA	C2D-C1D-ND	5.35	114.04	110.10
21	4	4009	CLA	CHD-C1D-ND	-5.35	119.54	124.45
21	4	4002	CLA	O2A-C1-C2	5.34	122.68	108.64
21	2	2004	CLA	CHD-C1D-ND	-5.34	119.54	124.45
21	3	3004	CLA	C4A-NA-C1A	5.34	109.11	106.71
21	1	1004	CLA	O2A-CGA-O1A	-5.34	110.12	123.59
21	1	1006	CLA	O2A-CGA-O1A	-5.34	110.12	123.59
21	3	3002	CLA	O2A-C1-C2	5.34	122.66	108.64
21	A	1105	CLA	C1D-ND-C4D	-5.34	102.54	106.33
21	B	1205	CLA	C1C-C2C-C3C	-5.33	101.35	106.96
21	B	9022	CLA	C4A-NA-C1A	5.33	109.10	106.71
21	A	1134	CLA	O2D-CGD-CBD	5.33	120.75	111.27
21	2	2002	CLA	CAC-C3C-C4C	5.33	131.73	124.81
21	2	2006	CLA	O2A-CGA-O1A	-5.33	110.14	123.59
21	4	4005	CLA	OBD-CAD-C3D	-5.33	115.69	128.52
19	I	6018	BCR	C40-C30-C25	5.33	118.94	110.30
21	B	1223	CLA	C1C-C2C-C3C	-5.33	101.35	106.96
19	B	6004	BCR	C34-C9-C10	-5.33	115.46	122.92
21	A	1101	CLA	O2D-CGD-CBD	5.33	120.73	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1223	CLA	O2D-CGD-CBD	5.32	120.73	111.27
21	B	1228	CLA	O2D-CGD-CBD	5.32	120.73	111.27
21	A	9012	CLA	C3D-C2D-C1D	-5.32	98.57	105.83
21	B	1203	CLA	C1D-ND-C4D	-5.32	102.55	106.33
21	B	1228	CLA	C2C-C1C-NC	5.32	114.96	109.97
21	3	3016	CLA	C1C-C2C-C3C	-5.32	101.36	106.96
21	A	1108	CLA	CHD-C1D-ND	-5.32	119.56	124.45
21	3	3003	CLA	O2A-CGA-O1A	-5.32	110.17	123.59
21	A	1112	CLA	O2D-CGD-CBD	5.32	120.72	111.27
21	B	1209	CLA	C1D-ND-C4D	-5.32	102.56	106.33
21	F	1301	CLA	C1C-C2C-C3C	-5.32	101.37	106.96
19	F	6016	BCR	C7-C8-C9	-5.32	118.20	126.23
21	B	1237	CLA	C4A-NA-C1A	5.31	109.09	106.71
21	B	1235	CLA	C1C-C2C-C3C	-5.31	101.37	106.96
21	1	1001	CLA	C2D-C1D-ND	5.31	114.02	110.10
21	4	4001	CLA	O2A-CGA-O1A	-5.31	110.20	123.59
21	1	1009	CLA	CMB-C2B-C1B	-5.31	120.31	128.46
21	H	1000	CLA	C4A-NA-C1A	5.31	109.09	106.71
21	A	1125	CLA	O2A-C1-C2	5.31	122.58	108.64
21	G	1001	CLA	C1C-C2C-C3C	-5.31	101.38	106.96
21	3	3006	CLA	O2D-CGD-CBD	5.31	120.70	111.27
21	A	1134	CLA	C1C-C2C-C3C	-5.31	101.38	106.96
21	L	1503	CLA	C1C-C2C-C3C	-5.30	101.38	106.96
21	B	1239	CLA	O2A-C1-C2	5.30	122.57	108.64
21	B	1236	CLA	CHD-C1D-ND	-5.30	119.58	124.45
21	A	1136	CLA	O2D-CGD-CBD	5.30	120.69	111.27
21	3	3012	CLA	C2D-C1D-ND	5.30	114.01	110.10
21	B	1234	CLA	O2D-CGD-CBD	5.30	120.69	111.27
21	B	1221	CLA	O2A-C1-C2	5.30	122.56	108.64
21	B	1230	CLA	C1D-ND-C4D	-5.30	102.57	106.33
21	B	1221	CLA	C1C-C2C-C3C	-5.30	101.39	106.96
21	L	1502	CLA	CHD-C1D-ND	-5.29	119.59	124.45
21	A	1126	CLA	C3D-C2D-C1D	-5.29	98.61	105.83
21	A	1128	CLA	C1C-C2C-C3C	-5.29	101.39	106.96
21	1	1007	CLA	C3D-C2D-C1D	-5.29	98.61	105.83
21	4	4007	CLA	CHD-C1D-ND	-5.29	119.59	124.45
21	L	1502	CLA	O2D-CGD-CBD	5.29	120.67	111.27
19	A	6008	BCR	C15-C14-C13	-5.29	119.77	127.31
21	B	1228	CLA	C1C-C2C-C3C	-5.29	101.40	106.96
21	L	1501	CLA	C1C-C2C-C3C	-5.29	101.40	106.96
21	A	1140	CLA	C1C-C2C-C3C	-5.29	101.40	106.96
21	J	6014	CLA	C1C-C2C-C3C	-5.28	101.40	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	4	4501	LUT	C11-C10-C9	-5.28	119.77	127.31
21	B	1224	CLA	O2A-CGA-O1A	-5.28	110.26	123.59
21	A	1139	CLA	C1C-C2C-C3C	-5.28	101.40	106.96
21	B	1236	CLA	C3D-C2D-C1D	-5.28	98.62	105.83
21	B	1214	CLA	C3D-C2D-C1D	-5.28	98.62	105.83
21	1	1002	CLA	C3D-C2D-C1D	-5.28	98.63	105.83
21	A	1106	CLA	C1C-C2C-C3C	-5.28	101.41	106.96
21	A	1111	CLA	O2A-CGA-O1A	-5.28	110.27	123.59
21	4	4007	CLA	O2A-C1-C2	5.28	122.51	108.64
21	A	1113	CLA	C1C-C2C-C3C	-5.28	101.41	106.96
21	A	1115	CLA	O2A-C1-C2	5.28	122.50	108.64
21	J	6014	CLA	C1D-ND-C4D	-5.28	102.59	106.33
21	A	1114	CLA	C1C-C2C-C3C	-5.28	101.41	106.96
21	B	1234	CLA	C1C-C2C-C3C	-5.28	101.41	106.96
21	2	2011	CLA	C2D-C1D-ND	5.27	113.99	110.10
21	L	1502	CLA	O2A-C1-C2	5.27	122.50	108.64
21	2	2008	CLA	C2C-C1C-NC	5.27	114.91	109.97
21	B	1224	CLA	O2D-CGD-CBD	5.27	120.64	111.27
21	B	1216	CLA	C1C-C2C-C3C	-5.27	101.41	106.96
21	3	3011	CLA	C3D-C2D-C1D	-5.27	98.64	105.83
21	A	1129	CLA	O2D-CGD-CBD	5.27	120.64	111.27
21	A	1127	CLA	O2A-C1-C2	5.27	122.48	108.64
21	A	1110	CLA	C4A-NA-C1A	5.27	109.08	106.71
21	B	1231	CLA	C1C-C2C-C3C	-5.27	101.42	106.96
21	J	1302	CLA	C1C-C2C-C3C	-5.27	101.42	106.96
21	4	4012	CLA	C3D-C2D-C1D	-5.27	98.64	105.83
21	B	1238	CLA	O2D-CGD-CBD	5.26	120.62	111.27
21	B	1225	CLA	C1C-C2C-C3C	-5.26	101.42	106.96
21	B	1229	CLA	C1C-C2C-C3C	-5.26	101.42	106.96
21	3	3001	CLA	C3D-C2D-C1D	-5.26	98.65	105.83
21	4	4009	CLA	C3D-C2D-C1D	-5.26	98.65	105.83
21	B	1234	CLA	CHD-C1D-ND	-5.26	119.62	124.45
21	B	1215	CLA	O2D-CGD-CBD	5.26	120.62	111.27
21	B	1229	CLA	C3D-C2D-C1D	-5.26	98.65	105.83
21	A	1122	CLA	C1C-C2C-C3C	-5.26	101.43	106.96
21	A	1138	CLA	C1C-C2C-C3C	-5.26	101.43	106.96
21	A	1115	CLA	C1D-ND-C4D	-5.26	102.60	106.33
21	A	1141	CLA	O2D-CGD-CBD	5.26	120.61	111.27
21	B	1218	CLA	C3D-C2D-C1D	-5.26	98.65	105.83
21	A	1104	CLA	C1C-C2C-C3C	-5.26	101.43	106.96
21	A	1120	CLA	C1C-C2C-C3C	-5.26	101.43	106.96
21	A	1106	CLA	C4A-NA-C1A	5.26	109.07	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	4	4503	NEX	C20-C13-C14	-5.25	115.56	122.92
21	B	1220	CLA	C4A-NA-C1A	5.25	109.07	106.71
21	B	1239	CLA	CHD-C1D-ND	-5.25	119.63	124.45
21	B	1239	CLA	C1C-C2C-C3C	-5.25	101.44	106.96
21	2	2009	CLA	C1C-C2C-C3C	-5.25	101.44	106.96
21	B	1229	CLA	C4A-NA-C1A	5.25	109.07	106.71
21	A	1142	CLA	C1C-C2C-C3C	-5.25	101.44	106.96
21	A	1103	CLA	O2A-C1-C2	5.25	122.42	108.64
21	B	1236	CLA	C1D-ND-C4D	-5.25	102.61	106.33
26	1	1501	LUT	C31-C30-C29	-5.25	119.82	127.31
21	3	3004	CLA	C3D-C2D-C1D	-5.25	98.67	105.83
21	2	2003	CLA	C1C-C2C-C3C	-5.25	101.44	106.96
21	B	1211	CLA	C4A-NA-C1A	5.24	109.06	106.71
21	A	1131	CLA	C1C-C2C-C3C	-5.24	101.44	106.96
21	4	4009	CLA	O2A-CGA-O1A	-5.24	110.36	123.59
21	B	1219	CLA	C1C-C2C-C3C	-5.24	101.44	106.96
21	2	2007	CLA	O2D-CGD-CBD	5.24	120.58	111.27
21	1	1012	CLA	CHD-C1D-ND	-5.24	119.64	124.45
21	B	1226	CLA	C3D-C2D-C1D	-5.24	98.68	105.83
21	A	1119	CLA	C1C-C2C-C3C	-5.24	101.45	106.96
21	2	2013	CLA	O2A-C1-C2	5.24	122.41	108.64
21	A	1136	CLA	O2A-C1-C2	5.24	122.40	108.64
21	A	1114	CLA	O2D-CGD-CBD	5.24	120.58	111.27
21	A	1136	CLA	C1C-C2C-C3C	-5.24	101.45	106.96
21	A	1121	CLA	C3D-C2D-C1D	-5.24	98.69	105.83
19	F	6014	BCR	C38-C26-C25	-5.23	118.65	124.53
21	A	1104	CLA	C3D-C2D-C1D	-5.23	98.69	105.83
21	B	1201	CLA	C4A-NA-C1A	5.23	109.06	106.71
21	A	1108	CLA	C1C-C2C-C3C	-5.23	101.46	106.96
21	3	3017	CLA	C1D-ND-C4D	-5.23	102.62	106.33
21	A	1103	CLA	CHD-C1D-ND	-5.23	119.65	124.45
21	A	1135	CLA	C1D-ND-C4D	-5.23	102.62	106.33
21	B	1235	CLA	CHD-C1D-ND	-5.23	119.65	124.45
21	A	1106	CLA	C3D-C2D-C1D	-5.23	98.70	105.83
21	A	1105	CLA	C4A-NA-C1A	5.23	109.06	106.71
21	A	1135	CLA	CHD-C1D-ND	-5.23	119.65	124.45
21	B	1215	CLA	C3D-C2D-C1D	-5.23	98.70	105.83
21	A	1109	CLA	O2A-CGA-O1A	-5.22	110.41	123.59
21	B	1205	CLA	O2A-CGA-O1A	-5.22	110.41	123.59
21	2	2008	CLA	C1D-ND-C4D	-5.22	102.62	106.33
21	3	3004	CLA	C1C-C2C-C3C	-5.22	101.47	106.96
21	A	1143	CLA	C1C-C2C-C3C	-5.22	101.47	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	1238	CLA	C1C-C2C-C3C	-5.22	101.47	106.96
21	2	2006	CLA	O2D-CGD-CBD	5.22	120.54	111.27
21	B	1214	CLA	C1D-ND-C4D	-5.22	102.63	106.33
21	A	1117	CLA	C1C-C2C-C3C	-5.22	101.47	106.96
21	A	1124	CLA	C1C-C2C-C3C	-5.22	101.47	106.96
21	B	1230	CLA	C3D-C2D-C1D	-5.22	98.71	105.83
21	J	6014	CLA	O2A-CGA-O1A	-5.22	110.43	123.59
21	A	1123	CLA	C3D-C2D-C1D	-5.21	98.72	105.83
21	B	1203	CLA	C3D-C2D-C1D	-5.21	98.72	105.83
21	A	1105	CLA	O2D-CGD-CBD	5.21	120.53	111.27
21	A	1122	CLA	O2A-C1-C2	5.21	122.33	108.64
21	1	1009	CLA	O2A-CGA-O1A	-5.21	110.45	123.59
21	1	1007	CLA	C2C-C1C-NC	5.21	114.85	109.97
21	A	1113	CLA	C3D-C2D-C1D	-5.21	98.72	105.83
21	A	1123	CLA	C1C-C2C-C3C	-5.21	101.48	106.96
21	A	1117	CLA	C4A-NA-C1A	5.21	109.05	106.71
21	3	3010	CLA	CHD-C1D-ND	-5.21	119.67	124.45
21	1	1005	CLA	C3D-C2D-C1D	-5.21	98.73	105.83
21	F	1302	CLA	C1D-ND-C4D	-5.20	102.64	106.33
19	J	6013	BCR	C24-C23-C22	-5.20	118.37	126.23
21	B	1234	CLA	C1D-ND-C4D	-5.20	102.64	106.33
21	1	1011	CLA	CHD-C1D-ND	-5.20	119.67	124.45
21	3	3001	CLA	C1C-C2C-C3C	-5.20	101.49	106.96
21	A	1141	CLA	C3D-C2D-C1D	-5.20	98.73	105.83
21	2	2010	CLA	C2D-C1D-ND	5.20	113.94	110.10
21	B	1220	CLA	C1C-C2C-C3C	-5.20	101.49	106.96
21	3	3015	CLA	C1C-C2C-C3C	-5.20	101.49	106.96
21	2	2012	CLA	C3D-C2D-C1D	-5.20	98.74	105.83
21	B	1201	CLA	C3D-C2D-C1D	-5.20	98.74	105.83
21	B	1235	CLA	C1D-ND-C4D	-5.20	102.64	106.33
21	A	1135	CLA	C4A-NA-C1A	5.20	109.04	106.71
19	B	6011	BCR	C15-C14-C13	-5.19	119.90	127.31
21	3	3002	CLA	C1C-C2C-C3C	-5.19	101.50	106.96
21	B	1208	CLA	C1C-C2C-C3C	-5.19	101.50	106.96
21	1	1007	CLA	O2A-CGA-O1A	-5.19	110.49	123.59
21	A	1101	CLA	C1D-ND-C4D	-5.19	102.65	106.33
26	1	1502	LUT	C18-C5-C6	-5.19	118.70	124.53
21	A	1102	CLA	C3D-C2D-C1D	-5.19	98.74	105.83
21	B	1206	CLA	CHD-C1D-ND	-5.19	119.68	124.45
21	B	1222	CLA	C1D-ND-C4D	-5.19	102.65	106.33
26	1	1502	LUT	C30-C31-C32	5.19	139.42	123.22
21	A	1139	CLA	C1D-ND-C4D	-5.19	102.65	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	1237	CLA	O2A-CGA-O1A	-5.19	110.50	123.59
21	A	1115	CLA	C3D-C2D-C1D	-5.19	98.75	105.83
21	1	1005	CLA	C1C-C2C-C3C	-5.19	101.50	106.96
21	B	1208	CLA	C3D-C2D-C1D	-5.19	98.75	105.83
21	2	2013	CLA	C1C-C2C-C3C	-5.19	101.50	106.96
21	B	1210	CLA	C3D-C2D-C1D	-5.19	98.75	105.83
21	A	1138	CLA	C1D-ND-C4D	-5.18	102.65	106.33
21	F	1301	CLA	C1D-ND-C4D	-5.18	102.65	106.33
21	G	1002	CLA	O2D-CGD-CBD	5.18	120.47	111.27
21	B	1204	CLA	O2D-CGD-CBD	5.18	120.47	111.27
21	J	1302	CLA	O2A-CGA-O1A	-5.18	110.52	123.59
21	B	1220	CLA	C1D-ND-C4D	-5.18	102.66	106.33
21	A	1112	CLA	C1D-ND-C4D	-5.18	102.66	106.33
21	A	1131	CLA	CHD-C1D-ND	-5.18	119.69	124.45
21	B	1229	CLA	CHD-C1D-ND	-5.18	119.69	124.45
21	B	1201	CLA	C1C-C2C-C3C	-5.18	101.51	106.96
21	A	1119	CLA	CHD-C1D-ND	-5.18	119.70	124.45
21	A	1116	CLA	C3D-C2D-C1D	-5.18	98.77	105.83
23	A	9011	CL0	O2A-CGA-O1A	-5.18	110.53	123.59
21	B	1217	CLA	O2D-CGD-CBD	5.18	120.46	111.27
21	3	3014	CLA	C1D-ND-C4D	-5.17	102.66	106.33
21	1	1005	CLA	O2A-C1-C2	5.17	122.23	108.64
21	3	3004	CLA	CHD-C1D-ND	-5.17	119.70	124.45
21	A	1109	CLA	C1D-ND-C4D	-5.17	102.66	106.33
21	A	9012	CLA	C2C-C1C-NC	5.17	114.82	109.97
21	B	1225	CLA	O2D-CGD-CBD	5.17	120.46	111.27
21	B	1217	CLA	C4A-NA-C1A	5.17	109.03	106.71
21	A	1136	CLA	C1D-ND-C4D	-5.17	102.66	106.33
21	B	1214	CLA	O2D-CGD-CBD	5.17	120.45	111.27
21	A	1105	CLA	C3D-C2D-C1D	-5.17	98.78	105.83
21	B	1235	CLA	O2D-CGD-CBD	5.17	120.45	111.27
21	B	1239	CLA	O2A-CGA-CBA	5.17	128.12	111.91
21	A	1120	CLA	CHD-C1D-ND	-5.16	119.71	124.45
21	2	2005	CLA	C1C-C2C-C3C	-5.16	101.53	106.96
21	B	1202	CLA	C3D-C2D-C1D	-5.16	98.79	105.83
21	B	1240	CLA	O2A-CGA-O1A	-5.16	110.57	123.59
21	A	1114	CLA	C4A-NA-C1A	5.16	109.03	106.71
21	3	3002	CLA	C3D-C2D-C1D	-5.16	98.79	105.83
21	B	9022	CLA	C3D-C2D-C1D	-5.16	98.79	105.83
21	1	1012	CLA	C1C-C2C-C3C	-5.16	101.53	106.96
21	B	1202	CLA	O2D-CGD-CBD	5.16	120.43	111.27
21	B	1215	CLA	CHD-C1D-ND	-5.16	119.72	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	4	4501	LUT	C2-C3-C4	5.16	117.36	110.30
21	B	1212	CLA	C1C-C2C-C3C	-5.16	101.54	106.96
21	B	1237	CLA	C1C-C2C-C3C	-5.16	101.54	106.96
21	3	3013	CLA	O2A-CGA-O1A	-5.15	110.58	123.59
21	A	1122	CLA	C1D-ND-C4D	-5.15	102.67	106.33
21	2	2001	CLA	C4D-ND-C1D	-5.15	102.67	106.33
21	B	1207	CLA	O2A-C1-C2	5.15	122.18	108.64
21	A	1143	CLA	C3D-C2D-C1D	-5.15	98.80	105.83
21	4	4015	CLA	C2C-C1C-NC	5.15	114.80	109.97
21	B	1240	CLA	C1C-C2C-C3C	-5.15	101.54	106.96
21	A	1129	CLA	C1C-C2C-C3C	-5.15	101.54	106.96
21	B	1204	CLA	C1C-C2C-C3C	-5.15	101.54	106.96
21	3	3006	CLA	C1C-C2C-C3C	-5.15	101.54	106.96
21	2	2009	CLA	C3D-C2D-C1D	-5.15	98.80	105.83
21	A	1116	CLA	CHD-C1D-ND	-5.15	119.72	124.45
21	B	1204	CLA	C1D-ND-C4D	-5.15	102.68	106.33
21	F	1301	CLA	C3D-C2D-C1D	-5.15	98.80	105.83
21	J	1302	CLA	O2D-CGD-CBD	5.15	120.42	111.27
21	B	1211	CLA	O2A-C1-C2	5.15	122.16	108.64
21	3	3015	CLA	C1D-ND-C4D	-5.15	102.68	106.33
21	A	1127	CLA	O2D-CGD-CBD	5.15	120.41	111.27
21	B	1222	CLA	C1C-C2C-C3C	-5.15	101.55	106.96
21	A	1109	CLA	C3D-C2D-C1D	-5.15	98.81	105.83
21	A	1104	CLA	C4A-NA-C1A	5.14	109.02	106.71
21	L	1502	CLA	C1C-C2C-C3C	-5.14	101.55	106.96
21	B	1220	CLA	CHD-C1D-ND	-5.14	119.73	124.45
21	B	1204	CLA	C4A-NA-C1A	5.14	109.02	106.71
21	4	4014	CLA	C1D-ND-C4D	-5.14	102.68	106.33
21	B	1228	CLA	C3D-C2D-C1D	-5.14	98.82	105.83
21	J	6014	CLA	O2D-CGD-CBD	5.14	120.40	111.27
21	A	1130	CLA	C1C-C2C-C3C	-5.14	101.55	106.96
21	B	1203	CLA	C1C-C2C-C3C	-5.14	101.55	106.96
21	A	1129	CLA	O2A-CGA-O1A	-5.14	110.62	123.59
21	A	1139	CLA	C3D-C2D-C1D	-5.14	98.82	105.83
21	A	1112	CLA	C3D-C2D-C1D	-5.14	98.82	105.83
21	B	1230	CLA	CHD-C1D-ND	-5.14	119.73	124.45
21	1	1008	CLA	C1C-C2C-C3C	-5.14	101.56	106.96
21	2	2004	CLA	C1C-C2C-C3C	-5.13	101.56	106.96
21	B	1237	CLA	CHD-C1D-ND	-5.13	119.74	124.45
19	F	6014	BCR	C7-C8-C9	-5.13	118.48	126.23
21	3	3015	CLA	CHD-C1D-ND	-5.13	119.74	124.45
21	B	1211	CLA	O2A-CGA-O1A	-5.13	110.64	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	3	3005	CLA	C1C-C2C-C3C	-5.13	101.56	106.96
21	A	1117	CLA	CHD-C1D-ND	-5.13	119.74	124.45
21	3	3002	CLA	O2A-CGA-CBA	5.13	128.01	111.91
21	A	1108	CLA	C4A-NA-C1A	5.13	109.01	106.71
21	A	1143	CLA	C4A-NA-C1A	5.13	109.01	106.71
21	3	3013	CLA	CHD-C1D-ND	-5.13	119.74	124.45
21	B	1213	CLA	C1C-C2C-C3C	-5.13	101.56	106.96
21	A	1108	CLA	C1D-ND-C4D	-5.13	102.69	106.33
21	1	1008	CLA	C1D-ND-C4D	-5.13	102.69	106.33
21	A	1129	CLA	C3D-C2D-C1D	-5.13	98.83	105.83
21	A	1135	CLA	C3D-C2D-C1D	-5.13	98.83	105.83
21	A	1138	CLA	CHD-C1D-ND	-5.13	119.74	124.45
21	A	1113	CLA	O2D-CGD-CBD	5.12	120.37	111.27
21	B	1222	CLA	O2A-CGA-O1A	-5.12	110.66	123.59
21	A	1103	CLA	C1C-C2C-C3C	-5.12	101.57	106.96
21	B	1216	CLA	CHD-C1D-ND	-5.12	119.75	124.45
21	A	1124	CLA	O2A-C1-C2	5.12	122.10	108.64
21	A	1143	CLA	CHD-C1D-ND	-5.12	119.75	124.45
21	A	1108	CLA	C3D-C2D-C1D	-5.12	98.84	105.83
21	3	3005	CLA	C3D-C2D-C1D	-5.12	98.85	105.83
21	A	9013	CLA	C1C-C2C-C3C	-5.12	101.58	106.96
21	B	1221	CLA	C3D-C2D-C1D	-5.12	98.85	105.83
21	B	1222	CLA	C3D-C2D-C1D	-5.12	98.85	105.83
21	L	1502	CLA	C1D-ND-C4D	-5.12	102.70	106.33
21	3	3001	CLA	CHD-C1D-ND	-5.12	119.75	124.45
21	B	1231	CLA	C1D-ND-C4D	-5.11	102.70	106.33
21	B	1211	CLA	C1C-C2C-C3C	-5.11	101.58	106.96
21	A	1134	CLA	C3D-C2D-C1D	-5.11	98.85	105.83
21	A	1134	CLA	CHD-C1D-ND	-5.11	119.76	124.45
21	A	1139	CLA	CHD-C1D-ND	-5.11	119.76	124.45
21	3	3015	CLA	C3D-C2D-C1D	-5.11	98.86	105.83
21	B	1228	CLA	O2A-C1-C2	5.11	122.07	108.64
21	L	1503	CLA	O2D-CGD-CBD	5.11	120.35	111.27
21	A	1103	CLA	O2D-CGD-CBD	5.11	120.35	111.27
21	A	9013	CLA	O2A-CGA-CBA	5.11	127.95	111.91
21	A	1104	CLA	CHD-C1D-ND	-5.11	119.76	124.45
21	3	3016	CLA	C3D-C2D-C1D	-5.11	98.86	105.83
21	A	1105	CLA	C1C-C2C-C3C	-5.11	101.59	106.96
21	2	2002	CLA	CHD-C1D-ND	-5.11	119.76	124.45
21	B	1225	CLA	C1D-ND-C4D	-5.11	102.71	106.33
21	B	1209	CLA	C3D-C2D-C1D	-5.11	98.86	105.83
21	B	1217	CLA	C3D-C2D-C1D	-5.11	98.86	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	F	1302	CLA	C3D-C2D-C1D	-5.11	98.86	105.83
21	1	1010	CLA	C1C-C2C-C3C	-5.11	101.59	106.96
21	3	3015	CLA	C4A-NA-C1A	5.10	109.00	106.71
21	3	3006	CLA	CHD-C1D-ND	-5.10	119.76	124.45
21	B	1204	CLA	C3D-C2D-C1D	-5.10	98.87	105.83
21	B	1238	CLA	C1D-ND-C4D	-5.10	102.71	106.33
21	3	3006	CLA	C3D-C2D-C1D	-5.10	98.87	105.83
21	A	1120	CLA	C3D-C2D-C1D	-5.10	98.87	105.83
21	A	1101	CLA	CHD-C1D-ND	-5.10	119.76	124.45
26	4	4501	LUT	C21-C26-C25	5.10	120.56	111.42
21	2	2010	CLA	C4A-NA-C1A	5.10	109.00	106.71
21	A	1116	CLA	O2D-CGD-CBD	5.10	120.33	111.27
21	A	1110	CLA	CHD-C1D-ND	-5.10	119.77	124.45
21	3	3008	CLA	C3D-C2D-C1D	-5.10	98.87	105.83
21	B	1224	CLA	CHD-C1D-ND	-5.10	119.77	124.45
21	A	1142	CLA	C4A-NA-C1A	5.10	109.00	106.71
21	A	1114	CLA	C3D-C2D-C1D	-5.10	98.87	105.83
21	B	1208	CLA	CHD-C1D-ND	-5.10	119.77	124.45
21	B	1230	CLA	O2A-C1-C2	5.10	122.04	108.64
21	B	1219	CLA	C1D-ND-C4D	-5.10	102.71	106.33
21	B	1210	CLA	O2A-CGA-O1A	-5.10	110.73	123.59
21	B	1201	CLA	C1D-ND-C4D	-5.10	102.71	106.33
21	3	3017	CLA	O2D-CGD-CBD	5.10	120.32	111.27
21	A	1111	CLA	C3D-C2D-C1D	-5.10	98.88	105.83
21	B	1220	CLA	C3D-C2D-C1D	-5.10	98.88	105.83
21	B	1234	CLA	C3D-C2D-C1D	-5.09	98.88	105.83
21	B	1231	CLA	CHD-C1D-ND	-5.09	119.77	124.45
21	J	6015	CLA	CHD-C1D-ND	-5.09	119.77	124.45
21	A	1137	CLA	CHD-C1D-ND	-5.09	119.77	124.45
21	A	1112	CLA	C4A-NA-C1A	5.09	109.00	106.71
21	1	1009	CLA	C4A-NA-C1A	5.09	109.00	106.71
21	3	3004	CLA	C1D-ND-C4D	-5.09	102.72	106.33
21	A	1122	CLA	CHD-C1D-ND	-5.09	119.78	124.45
21	A	1110	CLA	O2D-CGD-CBD	5.09	120.31	111.27
21	A	1138	CLA	O2D-CGD-CBD	5.09	120.31	111.27
21	A	1103	CLA	C3D-C2D-C1D	-5.09	98.89	105.83
21	A	9012	CLA	O2A-CGA-O1A	-5.09	110.75	123.59
21	A	1104	CLA	O2D-CGD-CBD	5.09	120.31	111.27
21	4	4012	CLA	CHD-C1D-ND	-5.08	119.78	124.45
21	B	1235	CLA	C3D-C2D-C1D	-5.08	98.89	105.83
21	A	1137	CLA	C3D-C2D-C1D	-5.08	98.89	105.83
21	H	1000	CLA	C3D-C2D-C1D	-5.08	98.89	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	4	4007	CLA	C3D-C2D-C1D	-5.08	98.89	105.83
21	A	1142	CLA	C3D-C2D-C1D	-5.08	98.90	105.83
21	A	1134	CLA	C4A-NA-C1A	5.08	108.99	106.71
21	A	1113	CLA	C1D-ND-C4D	-5.08	102.73	106.33
21	B	1209	CLA	C1C-C2C-C3C	-5.08	101.62	106.96
21	B	1210	CLA	C1C-C2C-C3C	-5.08	101.62	106.96
21	2	2001	CLA	C2B-C1B-NB	5.08	114.56	110.11
21	F	1301	CLA	O2A-CGA-O1A	-5.08	110.65	123.30
21	3	3003	CLA	C1C-C2C-C3C	-5.08	101.62	106.96
21	A	1133	CLA	CHD-C1D-ND	-5.08	119.79	124.45
21	B	1203	CLA	CHD-C1D-ND	-5.08	119.79	124.45
21	A	1109	CLA	C1C-C2C-C3C	-5.08	101.62	106.96
21	J	6014	CLA	C3D-C2D-C1D	-5.07	98.91	105.83
21	B	1210	CLA	CHD-C1D-ND	-5.07	119.79	124.45
21	A	1124	CLA	C3D-C2D-C1D	-5.07	98.91	105.83
21	L	1502	CLA	C3D-C2D-C1D	-5.07	98.91	105.83
21	J	6014	CLA	CHD-C1D-ND	-5.07	119.79	124.45
21	A	1136	CLA	CHD-C1D-ND	-5.07	119.79	124.45
21	2	2006	CLA	C3D-C2D-C1D	-5.07	98.91	105.83
21	B	1212	CLA	C3D-C2D-C1D	-5.07	98.91	105.83
21	A	1119	CLA	C1D-ND-C4D	-5.07	102.73	106.33
21	B	1227	CLA	C1D-ND-C4D	-5.07	102.73	106.33
21	A	1127	CLA	C1D-ND-C4D	-5.07	102.74	106.33
21	A	1124	CLA	CHD-C1D-ND	-5.06	119.80	124.45
21	A	1130	CLA	O2D-CGD-CBD	5.06	120.27	111.27
21	A	1119	CLA	O2A-C1-C2	5.06	121.94	108.64
21	A	1124	CLA	O2A-CGA-O1A	-5.06	110.82	123.59
21	A	1101	CLA	C3D-C2D-C1D	-5.06	98.92	105.83
21	A	1128	CLA	CHD-C1D-ND	-5.06	119.80	124.45
21	A	1119	CLA	C3D-C2D-C1D	-5.06	98.93	105.83
21	4	4008	CLA	CAA-C2A-C3A	-5.06	98.93	112.78
21	3	3002	CLA	CHD-C1D-ND	-5.06	119.81	124.45
21	A	1128	CLA	C3D-C2D-C1D	-5.06	98.93	105.83
21	B	1215	CLA	C4A-NA-C1A	5.06	108.98	106.71
21	A	1143	CLA	C1D-ND-C4D	-5.05	102.74	106.33
21	A	1117	CLA	C3D-C2D-C1D	-5.05	98.94	105.83
21	A	1105	CLA	CHD-C1D-ND	-5.05	119.81	124.45
21	3	3005	CLA	CHD-C1D-ND	-5.05	119.81	124.45
21	A	1108	CLA	O2D-CGD-CBD	5.05	120.24	111.27
21	A	1142	CLA	CHD-C1D-ND	-5.05	119.81	124.45
21	A	1102	CLA	O2A-C1-C2	5.05	121.90	108.64
21	B	1216	CLA	C3D-C2D-C1D	-5.05	98.94	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1122	CLA	C3D-C2D-C1D	-5.05	98.94	105.83
21	A	1129	CLA	CHD-C1D-ND	-5.05	119.82	124.45
21	A	1109	CLA	CHD-C1D-ND	-5.05	119.82	124.45
21	A	1120	CLA	C4A-NA-C1A	5.04	108.97	106.71
21	A	1106	CLA	C1D-ND-C4D	-5.04	102.75	106.33
21	2	2008	CLA	O2A-CGA-O1A	-5.04	110.86	123.59
21	A	1140	CLA	C3D-C2D-C1D	-5.04	98.95	105.83
21	4	4012	CLA	C1C-C2C-C3C	-5.04	101.66	106.96
21	A	1130	CLA	CHD-C1D-ND	-5.04	119.83	124.45
21	A	1142	CLA	O2D-CGD-CBD	5.04	120.22	111.27
21	1	1013	CLA	C1C-C2C-C3C	-5.04	101.66	106.96
21	B	1219	CLA	CHD-C1D-ND	-5.03	119.83	124.45
21	A	1134	CLA	C1D-ND-C4D	-5.03	102.76	106.33
21	A	1139	CLA	O2A-C1-C2	5.03	121.86	108.64
21	B	1224	CLA	C3D-C2D-C1D	-5.03	98.97	105.83
21	B	1224	CLA	C1C-C2C-C3C	-5.03	101.67	106.96
21	B	1238	CLA	CHD-C1D-ND	-5.03	119.83	124.45
21	1	1012	CLA	O2A-CGA-O1A	-5.03	110.90	123.59
21	F	1302	CLA	C1C-C2C-C3C	-5.03	101.67	106.96
21	B	1236	CLA	O2A-C1-C2	5.03	121.85	108.64
21	J	1302	CLA	CHD-C1D-ND	-5.03	119.83	124.45
21	3	3010	CLA	O2D-CGD-CBD	5.02	120.20	111.27
21	B	1216	CLA	O2D-CGD-CBD	5.02	120.20	111.27
21	B	1204	CLA	CHD-C1D-ND	-5.02	119.84	124.45
21	3	3009	CLA	CHD-C1D-ND	-5.02	119.84	124.45
19	A	6017	BCR	C12-C13-C14	5.02	126.65	118.94
21	3	3013	CLA	C3D-C2D-C1D	-5.02	98.98	105.83
21	1	1005	CLA	C1D-ND-C4D	-5.02	102.77	106.33
21	B	1210	CLA	C1D-ND-C4D	-5.02	102.77	106.33
21	A	1112	CLA	CHD-C1D-ND	-5.02	119.84	124.45
21	3	3011	CLA	O2D-CGD-O1D	-5.02	114.02	123.84
19	A	6011	BCR	C39-C30-C25	5.02	118.44	110.30
21	A	1110	CLA	O2A-CGA-O1A	-5.02	110.92	123.59
21	1	1003	CLA	CHD-C1D-ND	-5.02	119.84	124.45
21	A	1142	CLA	O2A-CGA-O1A	-5.02	110.80	123.30
21	A	1115	CLA	CHD-C1D-ND	-5.02	119.84	124.45
21	B	1222	CLA	O2D-CGD-CBD	5.02	120.18	111.27
21	J	1302	CLA	O2A-C1-C2	5.01	121.81	108.64
21	B	1230	CLA	C1C-C2C-C3C	-5.01	101.69	106.96
21	1	1011	CLA	C3D-C2D-C1D	-5.01	98.99	105.83
21	A	1116	CLA	O2A-C1-C2	5.01	121.81	108.64
19	A	6011	BCR	C39-C30-C29	-5.01	88.85	108.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1124	CLA	C1D-ND-C4D	-5.01	102.77	106.33
21	3	3005	CLA	C1D-ND-C4D	-5.01	102.77	106.33
21	4	4014	CLA	C2D-C1D-ND	5.01	113.80	110.10
21	A	1110	CLA	C3D-C2D-C1D	-5.01	98.99	105.83
21	1	1007	CLA	C1C-C2C-C3C	-5.01	101.69	106.96
21	A	1137	CLA	C1D-ND-C4D	-5.01	102.78	106.33
21	A	1136	CLA	C3D-C2D-C1D	-5.01	99.00	105.83
21	B	1240	CLA	C1D-ND-C4D	-5.01	102.78	106.33
21	A	1116	CLA	C1D-ND-C4D	-5.00	102.78	106.33
21	3	3002	CLA	C1D-ND-C4D	-5.00	102.78	106.33
21	2	2010	CLA	O2A-C1-C2	5.00	121.79	108.64
21	4	4002	CLA	C3D-C2D-C1D	-5.00	99.00	105.83
21	1	1009	CLA	C3D-C2D-C1D	-5.00	99.00	105.83
21	B	1237	CLA	C1D-ND-C4D	-5.00	102.78	106.33
21	B	1219	CLA	C3D-C2D-C1D	-5.00	99.01	105.83
21	A	1140	CLA	O2D-CGD-CBD	5.00	120.15	111.27
21	3	3009	CLA	C1D-ND-C4D	-5.00	102.78	106.33
21	1	1011	CLA	O2A-CGA-CBA	5.00	127.59	111.91
21	A	1110	CLA	C1C-C2C-C3C	-5.00	101.70	106.96
21	H	1000	CLA	CHD-C1D-ND	-5.00	119.86	124.45
21	G	1002	CLA	C3D-C2D-C1D	-5.00	99.01	105.83
21	3	3006	CLA	C1D-ND-C4D	-4.99	102.79	106.33
21	A	1111	CLA	O2D-CGD-CBD	4.99	120.14	111.27
21	1	1012	CLA	C1D-ND-C4D	-4.99	102.79	106.33
21	J	6014	CLA	O2A-C1-C2	4.99	121.76	108.64
21	A	1114	CLA	CHD-C1D-ND	-4.99	119.87	124.45
21	A	1104	CLA	O2A-C1-C2	4.99	121.75	108.64
19	L	6019	BCR	C24-C23-C22	-4.99	118.69	126.23
27	4	4503	NEX	C5-C6-C1	-4.99	114.74	119.70
19	B	6010	BCR	C15-C14-C13	-4.99	120.19	127.31
19	B	6010	BCR	C38-C26-C25	-4.99	118.92	124.53
21	L	1501	CLA	CHD-C1D-ND	-4.99	119.87	124.45
21	B	1218	CLA	O2A-CGA-O1A	-4.99	111.00	123.59
21	2	2014	CLA	C3D-C2D-C1D	-4.99	99.02	105.83
21	A	1140	CLA	C1D-ND-C4D	-4.99	102.79	106.33
21	3	3002	CLA	O2D-CGD-CBD	4.99	120.13	111.27
21	A	1115	CLA	C1C-C2C-C3C	-4.98	101.72	106.96
21	A	1118	CLA	C3D-C2D-C1D	-4.98	99.03	105.83
21	B	1231	CLA	C3D-C2D-C1D	-4.98	99.03	105.83
21	3	3006	CLA	O2A-C1-C2	4.98	121.73	108.64
21	4	4013	CLA	C3D-C2D-C1D	-4.98	99.03	105.83
19	I	6020	BCR	C7-C8-C9	-4.98	118.71	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	9023	CLA	C3D-C2D-C1D	-4.98	99.03	105.83
21	J	1302	CLA	C3D-C2D-C1D	-4.98	99.03	105.83
21	B	1201	CLA	CHD-C1D-ND	-4.98	119.88	124.45
21	L	1503	CLA	C3D-C2D-C1D	-4.98	99.04	105.83
21	B	1223	CLA	O2A-CGA-O1A	-4.98	111.03	123.59
21	3	3015	CLA	O2D-CGD-CBD	4.98	120.11	111.27
21	A	1140	CLA	CHD-C1D-ND	-4.98	119.88	124.45
21	B	1211	CLA	C1D-ND-C4D	-4.97	102.80	106.33
21	B	1227	CLA	C3D-C2D-C1D	-4.97	99.04	105.83
19	G	2011	BCR	C19-C18-C17	4.97	126.57	118.94
21	B	1225	CLA	O2A-CGA-O1A	-4.97	111.05	123.59
21	B	1225	CLA	C4A-NA-C1A	4.97	108.94	106.71
21	L	1503	CLA	CHD-C1D-ND	-4.97	119.89	124.45
21	B	1205	CLA	C3D-C2D-C1D	-4.97	99.05	105.83
21	A	1114	CLA	C1D-ND-C4D	-4.97	102.81	106.33
21	2	2013	CLA	C3D-C2D-C1D	-4.97	99.05	105.83
21	A	1122	CLA	O2A-CGA-O1A	-4.96	111.06	123.59
21	4	4015	CLA	C1C-C2C-C3C	-4.96	101.74	106.96
21	4	4003	CLA	C1D-ND-C4D	-4.96	102.81	106.33
21	A	1101	CLA	C1C-C2C-C3C	-4.96	101.74	106.96
21	1	1005	CLA	CHD-C1D-ND	-4.96	119.89	124.45
21	B	9010	CLA	O2A-CGA-O1A	-4.96	111.07	123.59
21	B	1204	CLA	O2A-CGA-O1A	-4.96	111.07	123.59
21	B	1215	CLA	C1D-ND-C4D	-4.96	102.81	106.33
21	4	4004	CLA	C1D-ND-C4D	-4.96	102.81	106.33
21	B	1214	CLA	CHD-C1D-ND	-4.96	119.90	124.45
23	A	9011	CL0	C1C-C2C-C3C	-4.96	101.74	106.96
19	A	6008	BCR	C3-C4-C5	-4.96	105.22	114.08
21	4	4012	CLA	O2A-CGA-CBA	4.96	127.47	111.91
21	B	1206	CLA	O2A-C1-C2	4.96	121.67	108.64
21	A	1130	CLA	C1D-ND-C4D	-4.96	102.81	106.33
21	B	1212	CLA	CHD-C1D-ND	-4.96	119.90	124.45
21	A	1138	CLA	C3D-C2D-C1D	-4.96	99.07	105.83
21	2	2010	CLA	O2D-CGD-CBD	4.95	120.07	111.27
21	B	1203	CLA	C4A-NA-C1A	4.95	108.93	106.71
21	L	1501	CLA	C3D-C2D-C1D	-4.95	99.07	105.83
21	2	2003	CLA	O2A-CGA-O1A	-4.95	111.09	123.59
21	A	1123	CLA	C1D-ND-C4D	-4.95	102.82	106.33
21	A	1141	CLA	C1C-C2C-C3C	-4.95	101.75	106.96
21	B	1225	CLA	O2A-C1-C2	4.95	121.64	108.64
21	B	9023	CLA	C1C-C2C-C3C	-4.95	101.75	106.96
21	B	1228	CLA	O2A-CGA-O1A	-4.95	111.10	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1224	CLA	C4A-NA-C1A	4.95	108.93	106.71
21	2	2014	CLA	O2D-CGD-CBD	4.94	120.05	111.27
21	2	2001	CLA	C3C-C2C-C1C	-4.94	101.29	107.21
21	G	1001	CLA	CHD-C1D-ND	-4.94	119.91	124.45
21	B	1237	CLA	C3D-C2D-C1D	-4.94	99.09	105.83
21	2	2001	CLA	C3C-C4C-NC	4.94	114.53	109.97
21	2	2010	CLA	O2A-CGA-O1A	-4.94	111.12	123.59
21	B	1213	CLA	O2A-CGA-CBA	4.94	127.41	111.91
21	A	1124	CLA	C4A-NA-C1A	4.94	108.93	106.71
21	3	3014	CLA	O2A-CGA-O1A	-4.94	111.00	123.30
21	A	1126	CLA	CHD-C1D-ND	-4.94	119.92	124.45
21	B	1231	CLA	C4A-NA-C1A	4.94	108.92	106.71
21	A	1111	CLA	CHD-C1D-ND	-4.93	119.92	124.45
21	A	1131	CLA	C3D-C2D-C1D	-4.93	99.10	105.83
21	A	1116	CLA	C1C-C2C-C3C	-4.93	101.77	106.96
21	B	1217	CLA	C1D-ND-C4D	-4.93	102.83	106.33
21	2	2002	CLA	O2A-CGA-CBA	4.93	127.39	111.91
21	A	1115	CLA	C4A-NA-C1A	4.93	108.92	106.71
21	B	1234	CLA	C4A-NA-C1A	4.93	108.92	106.71
21	A	1127	CLA	C1C-C2C-C3C	-4.93	101.77	106.96
21	B	1206	CLA	O2D-CGD-CBD	4.93	120.03	111.27
21	A	1127	CLA	C3D-C2D-C1D	-4.93	99.10	105.83
21	B	1238	CLA	C3D-C2D-C1D	-4.93	99.10	105.83
21	A	1112	CLA	C1C-C2C-C3C	-4.93	101.78	106.96
21	B	1240	CLA	CHD-C1D-ND	-4.93	119.93	124.45
21	4	4002	CLA	CHD-C1D-ND	-4.92	119.93	124.45
21	L	1501	CLA	C1D-ND-C4D	-4.92	102.84	106.33
21	3	3004	CLA	O2A-CGA-O1A	-4.92	111.03	123.30
21	A	1126	CLA	C1C-C2C-C3C	-4.92	101.78	106.96
21	A	1115	CLA	O2D-CGD-CBD	4.92	120.01	111.27
21	A	1116	CLA	C4A-NA-C1A	4.92	108.92	106.71
21	A	1120	CLA	C1D-ND-C4D	-4.92	102.84	106.33
21	B	1212	CLA	C1D-ND-C4D	-4.92	102.84	106.33
21	B	1213	CLA	C3D-C2D-C1D	-4.91	99.13	105.83
19	B	6005	BCR	C38-C26-C25	-4.91	119.01	124.53
21	F	1302	CLA	CHD-C1D-ND	-4.91	119.94	124.45
21	B	1206	CLA	C3D-C2D-C1D	-4.91	99.14	105.83
21	B	1240	CLA	C3D-C2D-C1D	-4.91	99.14	105.83
21	B	1215	CLA	O2A-C1-C2	4.90	121.53	108.64
21	1	1008	CLA	CHD-C1D-ND	-4.90	119.95	124.45
21	A	1128	CLA	C1D-ND-C4D	-4.90	102.85	106.33
21	A	1123	CLA	O2A-C1-C2	4.90	121.52	108.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	L	1503	CLA	O2A-C1-C2	4.90	121.52	108.64
21	A	1130	CLA	C3D-C2D-C1D	-4.90	99.14	105.83
21	A	1125	CLA	O2A-CGA-CBA	4.90	127.29	111.91
21	3	3015	CLA	O2A-CGA-O1A	-4.90	111.08	123.30
21	B	9010	CLA	C1D-ND-C4D	-4.90	102.85	106.33
21	1	1014	CLA	O2A-CGA-O1A	-4.90	111.09	123.30
21	F	1301	CLA	CHD-C1D-ND	-4.90	119.95	124.45
21	F	1301	CLA	O2D-CGD-CBD	4.90	119.97	111.27
21	4	4011	CLA	O2D-CGD-CBD	4.90	119.97	111.27
21	4	4008	CLA	C3D-C2D-C1D	-4.90	99.15	105.83
21	1	1006	CLA	C3D-C2D-C1D	-4.90	99.15	105.83
21	2	2004	CLA	C1D-ND-C4D	-4.89	102.86	106.33
19	B	6005	BCR	C33-C5-C6	-4.89	119.03	124.53
21	A	1124	CLA	O2D-CGD-CBD	4.89	119.96	111.27
21	4	4001	CLA	C3D-C2D-C1D	-4.89	99.15	105.83
21	A	1102	CLA	C1D-ND-C4D	-4.89	102.86	106.33
21	B	1225	CLA	CHD-C1D-ND	-4.89	119.96	124.45
21	A	1132	CLA	C3D-C2D-C1D	-4.89	99.16	105.83
21	4	4006	CLA	O2D-CGD-CBD	4.89	119.95	111.27
21	A	1126	CLA	O2D-CGD-CBD	4.89	119.95	111.27
21	B	1210	CLA	C4A-NA-C1A	4.88	108.90	106.71
21	A	1126	CLA	O2A-CGA-O1A	-4.88	111.27	123.59
21	A	1123	CLA	CHD-C1D-ND	-4.88	119.97	124.45
21	B	1229	CLA	O2A-CGA-O1A	-4.88	111.27	123.59
21	1	1012	CLA	C3D-C2D-C1D	-4.88	99.17	105.83
21	B	1210	CLA	O2D-CGD-CBD	4.88	119.94	111.27
21	A	1122	CLA	C4A-NA-C1A	4.88	108.90	106.71
21	A	1142	CLA	C1D-ND-C4D	-4.88	102.87	106.33
21	1	1007	CLA	CHD-C1D-ND	-4.88	119.97	124.45
21	A	1143	CLA	O2A-CGA-O1A	-4.88	111.15	123.30
21	A	1116	CLA	O2A-CGA-O1A	-4.87	111.29	123.59
21	A	1120	CLA	O2D-CGD-CBD	4.87	119.93	111.27
21	A	1107	CLA	C3D-C2D-C1D	-4.87	99.18	105.83
21	B	1208	CLA	C4A-NA-C1A	4.87	108.90	106.71
21	B	1220	CLA	O2A-CGA-O1A	-4.87	111.30	123.59
21	4	4010	CLA	C1D-ND-C4D	-4.87	102.88	106.33
21	1	1004	CLA	CHD-C1D-ND	-4.87	119.98	124.45
21	4	4014	CLA	C2C-C1C-NC	4.87	114.53	109.97
21	A	1102	CLA	CHD-C1D-ND	-4.87	119.98	124.45
19	A	6017	BCR	C19-C18-C17	4.87	126.41	118.94
21	1	1014	CLA	C3D-C2D-C1D	-4.86	99.19	105.83
21	L	1502	CLA	O2A-CGA-O1A	-4.86	111.32	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	3	3006	CLA	O2A-CGA-O1A	-4.86	111.32	123.59
21	2	2011	CLA	O2A-CGA-CBA	4.86	127.17	111.91
21	2	2002	CLA	C3D-C2D-C1D	-4.86	99.20	105.83
21	B	1230	CLA	O2A-CGA-O1A	-4.86	111.32	123.59
21	3	3017	CLA	O2A-CGA-O1A	-4.86	111.18	123.30
21	3	3016	CLA	O2A-CGA-O1A	-4.86	111.19	123.30
21	4	4002	CLA	O2D-CGD-CBD	4.86	119.90	111.27
21	B	1207	CLA	C3D-C2D-C1D	-4.86	99.20	105.83
21	4	4015	CLA	CHD-C1D-ND	-4.86	119.99	124.45
21	B	1203	CLA	O2A-CGA-O1A	-4.85	111.34	123.59
21	A	1129	CLA	C1D-ND-C4D	-4.85	102.89	106.33
21	B	1211	CLA	CHD-C1D-ND	-4.85	119.99	124.45
21	4	4015	CLA	O2D-CGD-CBD	4.85	119.89	111.27
21	B	1207	CLA	O2A-CGA-O1A	-4.85	111.35	123.59
21	B	1203	CLA	O2A-C1-C2	4.85	121.38	108.64
21	1	1002	CLA	CHD-C1D-ND	-4.85	120.00	124.45
21	A	1106	CLA	O2A-CGA-O1A	-4.85	111.36	123.59
21	A	1138	CLA	O2A-C1-C2	4.84	121.37	108.64
21	B	1227	CLA	O2A-C1-C2	4.84	121.37	108.64
21	A	1110	CLA	C1D-ND-C4D	-4.84	102.89	106.33
19	B	6005	BCR	C19-C18-C17	4.84	126.37	118.94
21	2	2005	CLA	CHD-C1D-ND	-4.84	120.00	124.45
21	2	2010	CLA	C3D-C2D-C1D	-4.84	99.22	105.83
21	B	1205	CLA	CHD-C1D-ND	-4.84	120.01	124.45
21	A	1133	CLA	C3D-C2D-C1D	-4.84	99.23	105.83
21	3	3017	CLA	C3D-C2D-C1D	-4.84	99.23	105.83
21	H	1000	CLA	C1D-ND-C4D	-4.84	102.90	106.33
21	B	1225	CLA	C3D-C2D-C1D	-4.83	99.23	105.83
21	A	1119	CLA	C4A-NA-C1A	4.83	108.88	106.71
21	L	1501	CLA	O2D-CGD-CBD	4.83	119.85	111.27
21	3	3008	CLA	C1D-ND-C4D	-4.83	102.90	106.33
21	A	1128	CLA	O2A-C1-C2	4.83	121.33	108.64
21	B	1208	CLA	O2A-CGA-O1A	-4.83	111.41	123.59
21	A	1119	CLA	O2D-CGD-CBD	4.82	119.84	111.27
21	3	3010	CLA	C1D-ND-C4D	-4.82	102.91	106.33
21	B	1222	CLA	C4A-NA-C1A	4.82	108.87	106.71
21	A	1102	CLA	O2A-CGA-O1A	-4.82	111.42	123.59
19	G	2011	BCR	C36-C18-C17	-4.82	116.17	122.92
21	B	1235	CLA	O2A-C1-C2	4.82	121.30	108.64
21	2	2012	CLA	O2A-CGA-O1A	-4.82	111.43	123.59
21	4	4001	CLA	C1D-ND-C4D	-4.82	102.91	106.33
21	A	1107	CLA	O2A-CGA-O1A	-4.81	111.44	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1237	CLA	O2D-CGD-CBD	4.81	119.82	111.27
21	A	1117	CLA	C1D-ND-C4D	-4.81	102.92	106.33
21	B	1221	CLA	O2A-CGA-O1A	-4.81	111.45	123.59
21	4	4004	CLA	C1C-C2C-C3C	-4.81	101.90	106.96
21	B	1211	CLA	C3D-C2D-C1D	-4.81	99.27	105.83
21	3	3005	CLA	O2A-CGA-O1A	-4.81	111.31	123.30
21	1	1011	CLA	O2A-C1-C2	4.81	121.27	108.64
19	J	6013	BCR	C34-C9-C10	-4.81	116.19	122.92
21	A	1111	CLA	C1D-ND-C4D	-4.81	102.92	106.33
21	A	1126	CLA	C1-C2-C3	-4.81	117.73	126.04
21	A	1135	CLA	O2A-C1-C2	4.81	121.27	108.64
21	3	3016	CLA	CHD-C1D-ND	-4.81	120.04	124.45
19	F	6016	BCR	C39-C30-C29	-4.81	89.69	108.91
21	A	1132	CLA	C1C-C2C-C3C	-4.80	101.91	106.96
21	2	2003	CLA	C3D-C2D-C1D	-4.80	99.27	105.83
21	A	1104	CLA	O2A-CGA-O1A	-4.80	111.47	123.59
21	B	9022	CLA	O2A-CGA-O1A	-4.80	111.47	123.59
21	B	1205	CLA	C1D-ND-C4D	-4.80	102.92	106.33
21	3	3012	CLA	C3D-C2D-C1D	-4.80	99.28	105.83
21	1	1013	CLA	O2A-C1-C2	4.80	121.25	108.64
21	1	1014	CLA	C1D-ND-C4D	-4.79	102.93	106.33
21	A	1123	CLA	O2A-CGA-O1A	-4.79	111.50	123.59
21	4	4004	CLA	C3D-C2D-C1D	-4.79	99.30	105.83
21	4	4014	CLA	C1C-C2C-C3C	-4.78	101.93	106.96
21	4	4003	CLA	O2A-C1-C2	4.78	121.21	108.64
21	F	1302	CLA	C4A-NA-C1A	4.78	108.86	106.71
21	B	1224	CLA	O2A-C1-C2	4.78	121.20	108.64
21	1	1009	CLA	CHD-C1D-ND	-4.78	120.06	124.45
21	A	1127	CLA	O2A-CGA-O1A	-4.78	111.53	123.59
21	B	1206	CLA	O2A-CGA-O1A	-4.78	111.53	123.59
21	A	1138	CLA	O2A-CGA-O1A	-4.78	111.53	123.59
21	2	2007	CLA	C3D-C2D-C1D	-4.78	99.31	105.83
19	J	6012	BCR	C36-C18-C17	-4.77	116.23	122.92
26	1	1501	LUT	C21-C26-C25	4.77	119.97	111.42
21	2	2001	CLA	CHD-C1D-ND	-4.77	119.91	124.52
21	B	1216	CLA	C1D-ND-C4D	-4.77	102.95	106.33
21	3	3005	CLA	C4A-NA-C1A	4.77	108.85	106.71
21	1	1014	CLA	C1C-C2C-C3C	-4.77	101.94	106.96
21	A	1136	CLA	O2A-CGA-O1A	-4.77	111.56	123.59
21	A	1113	CLA	CHD-C1D-ND	-4.76	120.08	124.45
21	A	1119	CLA	O2A-CGA-O1A	-4.76	111.57	123.59
19	I	6018	BCR	C7-C8-C9	-4.76	119.04	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1217	CLA	CHD-C1D-ND	-4.76	120.08	124.45
21	B	1223	CLA	O2A-C1-C2	4.76	121.15	108.64
19	B	6009	BCR	C38-C26-C25	-4.76	119.18	124.53
21	A	1127	CLA	CHD-C1D-ND	-4.76	120.08	124.45
21	F	1302	CLA	O2D-CGD-CBD	4.76	119.73	111.27
21	2	2009	CLA	O2A-CGA-O1A	-4.76	108.22	123.14
21	B	1210	CLA	O2A-C1-C2	4.76	121.14	108.64
21	A	1105	CLA	O2A-CGA-O1A	-4.76	111.58	123.59
21	B	1238	CLA	O2A-CGA-O1A	-4.76	111.58	123.59
21	B	1234	CLA	O2A-C1-C2	4.76	121.14	108.64
21	3	3016	CLA	C1D-ND-C4D	-4.76	102.95	106.33
21	B	1223	CLA	C1D-ND-C4D	-4.76	102.96	106.33
21	B	1226	CLA	O2A-CGA-CBA	4.75	126.82	111.91
21	B	1214	CLA	C1C-C2C-C3C	-4.75	101.96	106.96
21	F	1303	CLA	CAC-C3C-C4C	4.74	130.97	124.81
21	B	1219	CLA	O2A-CGA-O1A	-4.74	111.62	123.59
21	1	1013	CLA	O2A-CGA-O1A	-4.74	111.63	123.59
21	2	2010	CLA	CHD-C1D-ND	-4.74	120.10	124.45
21	B	1226	CLA	O2D-CGD-O1D	-4.74	114.58	123.84
19	A	6008	BCR	C39-C30-C29	-4.74	89.96	108.91
21	1	1003	CLA	O2A-C1-C2	4.74	121.08	108.64
21	1	1004	CLA	C3D-C2D-C1D	-4.73	99.37	105.83
21	B	1219	CLA	O2A-C1-C2	4.73	121.07	108.64
21	A	1135	CLA	O2A-CGA-O1A	-4.73	111.65	123.59
21	2	2006	CLA	C1D-ND-C4D	-4.73	102.97	106.33
21	A	1107	CLA	C1C-C2C-C3C	-4.73	101.98	106.96
21	B	1214	CLA	O2A-CGA-O1A	-4.73	111.66	123.59
21	L	1503	CLA	C1D-ND-C4D	-4.73	102.98	106.33
21	B	1220	CLA	O2A-C1-C2	4.72	121.05	108.64
26	1	1502	LUT	C31-C30-C29	-4.72	120.57	127.31
19	A	6011	BCR	C32-C1-C31	4.72	123.03	108.53
21	B	1205	CLA	O2A-C1-C2	4.72	121.04	108.64
21	3	3006	CLA	C4A-NA-C1A	4.72	108.83	106.71
21	A	1143	CLA	O2D-CGD-CBD	4.72	119.66	111.27
21	4	4012	CLA	O2D-CGD-CBD	4.72	119.65	111.27
19	F	6016	BCR	C38-C26-C25	-4.72	119.23	124.53
21	A	1115	CLA	O2A-CGA-O1A	-4.72	111.69	123.59
21	B	1209	CLA	CHD-C1D-ND	-4.71	120.12	124.45
21	A	1117	CLA	O2A-C1-C2	4.71	121.02	108.64
21	A	1103	CLA	C1D-ND-C4D	-4.71	102.99	106.33
21	B	1215	CLA	O2A-CGA-O1A	-4.71	111.70	123.59
21	A	1129	CLA	O2A-C1-C2	4.71	121.01	108.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1111	CLA	C1C-C2C-C3C	-4.71	102.01	106.96
21	B	1238	CLA	C4A-NA-C1A	4.71	108.82	106.71
21	A	1118	CLA	CHD-C1D-ND	-4.71	120.13	124.45
21	1	1002	CLA	C1D-ND-C4D	-4.70	103.00	106.33
21	B	9010	CLA	CHD-C1D-ND	-4.70	120.14	124.45
21	B	1220	CLA	O2D-CGD-CBD	4.70	119.61	111.27
21	3	3014	CLA	O2D-CGD-CBD	4.70	119.61	111.27
21	A	1118	CLA	C1D-ND-C4D	-4.70	103.00	106.33
21	2	2013	CLA	CHD-C1D-ND	-4.70	120.14	124.45
21	1	1008	CLA	O2A-CGA-O1A	-4.69	111.75	123.59
21	A	1141	CLA	O2A-CGA-O1A	-4.69	111.76	123.59
26	1	1502	LUT	C21-C26-C25	4.69	119.81	111.42
19	I	6018	BCR	C3-C4-C5	-4.69	105.71	114.08
21	3	3016	CLA	O2D-CGD-CBD	4.68	119.58	111.27
21	B	9023	CLA	O2A-CGA-O1A	-4.68	111.78	123.59
21	4	4008	CLA	C4D-C3D-CAD	4.68	113.61	108.10
21	B	1216	CLA	O2A-CGA-O1A	-4.67	111.80	123.59
19	I	6018	BCR	C15-C14-C13	-4.67	120.65	127.31
21	B	1202	CLA	CHD-C1D-ND	-4.67	120.17	124.45
21	4	4003	CLA	C3D-C2D-C1D	-4.67	99.46	105.83
19	J	6012	BCR	C23-C22-C21	4.66	126.10	118.94
21	B	1234	CLA	O2A-CGA-O1A	-4.66	111.82	123.59
21	4	4013	CLA	C1D-ND-C4D	-4.66	103.02	106.33
21	A	1117	CLA	O2A-CGA-O1A	-4.66	111.84	123.59
19	F	6016	BCR	C3-C4-C5	-4.66	105.76	114.08
21	B	1227	CLA	O2A-CGA-O1A	-4.66	111.84	123.59
21	A	1126	CLA	C4A-NA-C1A	4.66	108.80	106.71
21	2	2005	CLA	C1D-ND-C4D	-4.66	103.03	106.33
21	B	1227	CLA	CHD-C1D-ND	-4.66	120.18	124.45
19	I	6018	BCR	C32-C1-C31	4.65	122.81	108.53
21	A	1127	CLA	C1-C2-C3	-4.65	118.00	126.04
21	B	1219	CLA	O2D-CGD-CBD	4.65	119.53	111.27
21	4	4011	CLA	C3D-C2D-C1D	-4.65	99.49	105.83
21	4	4013	CLA	O2A-C1-C2	4.65	120.85	108.64
19	J	6012	BCR	C33-C5-C6	-4.64	119.31	124.53
21	2	2007	CLA	O2A-CGA-O1A	-4.64	111.87	123.59
21	B	1207	CLA	C1D-ND-C4D	-4.64	103.04	106.33
21	3	3001	CLA	O2A-C1-C2	4.64	120.84	108.64
21	1	1002	CLA	O2A-C1-C2	4.64	120.84	108.64
21	B	1213	CLA	CHD-C1D-ND	-4.64	120.19	124.45
21	B	9022	CLA	O2A-C1-C2	4.64	120.83	108.64
21	J	1302	CLA	C4A-NA-C1A	4.64	108.79	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	4	4012	CLA	C1D-ND-C4D	-4.64	103.04	106.33
21	B	1222	CLA	O2A-C1-C2	4.64	120.83	108.64
21	1	1003	CLA	C3D-C2D-C1D	-4.64	99.50	105.83
21	3	3011	CLA	C1C-C2C-C3C	-4.63	102.08	106.96
21	B	1207	CLA	CHD-C1D-ND	-4.63	120.20	124.45
21	A	1137	CLA	O2A-C1-C2	4.63	120.81	108.64
21	A	1132	CLA	CHD-C1D-ND	-4.63	120.20	124.45
19	I	6018	BCR	C39-C30-C29	-4.63	90.39	108.91
21	A	1128	CLA	O2A-CGA-O1A	-4.63	111.91	123.59
19	B	6010	BCR	C7-C8-C9	-4.63	119.25	126.23
21	B	9010	CLA	C3D-C2D-C1D	-4.63	99.52	105.83
21	A	1111	CLA	O2A-CGA-CBA	4.62	126.42	111.91
21	A	1141	CLA	C4A-NA-C1A	4.62	108.78	106.71
21	B	1213	CLA	O2D-CGD-CBD	4.62	119.48	111.27
21	2	2013	CLA	C1D-ND-C4D	-4.62	103.05	106.33
19	F	6014	BCR	C32-C1-C31	4.62	122.71	108.53
21	A	1109	CLA	O2D-CGD-CBD	4.62	119.47	111.27
21	A	9012	CLA	C1D-ND-C4D	-4.61	103.06	106.33
21	3	3017	CLA	C4A-NA-C1A	4.61	108.78	106.71
21	4	4001	CLA	O2A-CGA-CBA	4.61	126.37	111.91
19	B	6006	BCR	C39-C30-C29	-4.61	90.47	108.91
21	B	1216	CLA	C4A-NA-C1A	4.61	108.78	106.71
19	B	6006	BCR	C3-C4-C5	-4.61	105.85	114.08
21	1	1010	CLA	O2A-CGA-O1A	-4.60	111.97	123.59
21	4	4004	CLA	CHD-C1D-ND	-4.60	120.23	124.45
21	A	1126	CLA	C1D-ND-C4D	-4.59	103.07	106.33
21	B	1236	CLA	O2A-CGA-O1A	-4.59	112.00	123.59
21	L	1503	CLA	O2A-CGA-O1A	-4.59	112.00	123.59
21	4	4011	CLA	O2A-CGA-CBA	4.58	126.30	111.91
19	F	6016	BCR	C28-C27-C26	-4.58	105.89	114.08
21	A	1106	CLA	CHD-C1D-ND	-4.58	120.25	124.45
21	2	2014	CLA	CHD-C1D-ND	-4.58	120.25	124.45
21	B	1224	CLA	C1D-ND-C4D	-4.58	103.08	106.33
21	J	6015	CLA	C1D-ND-C4D	-4.58	103.08	106.33
21	1	1013	CLA	CHD-C1D-ND	-4.57	120.25	124.45
27	4	4503	NEX	C39-C29-C30	-4.57	116.52	122.92
21	A	1133	CLA	O2D-CGD-CBD	4.57	119.38	111.27
21	2	2003	CLA	O2D-CGD-CBD	4.56	119.37	111.27
21	4	4006	CLA	O2A-C1-C2	4.56	120.61	108.64
20	1	1801	LHG	O7-C7-C8	4.55	121.32	111.50
21	A	1131	CLA	C1D-ND-C4D	-4.55	103.10	106.33
21	B	1203	CLA	O2D-CGD-CBD	4.55	119.36	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1131	CLA	O2A-C1-C2	4.55	120.60	108.64
21	4	4014	CLA	O2D-CGD-CBD	4.55	119.35	111.27
19	A	6008	BCR	C38-C26-C25	-4.55	119.42	124.53
19	F	6014	BCR	C24-C23-C22	-4.55	119.36	126.23
21	3	3008	CLA	O2A-CGA-O1A	-4.55	112.11	123.59
21	4	4013	CLA	CMC-C2C-C1C	4.55	131.96	125.04
21	1	1005	CLA	O2D-CGD-CBD	4.55	119.35	111.27
21	B	1219	CLA	C4A-NA-C1A	4.55	108.75	106.71
26	4	4501	LUT	C18-C5-C6	-4.54	119.42	124.53
21	4	4005	CLA	CAA-C2A-C1A	-4.54	97.08	111.97
21	A	1121	CLA	CHD-C1D-ND	-4.54	120.28	124.45
21	A	1107	CLA	C4A-NA-C1A	4.53	108.74	106.71
21	B	1206	CLA	C1D-ND-C4D	-4.53	103.12	106.33
21	2	2002	CLA	C1D-ND-C4D	-4.53	103.12	106.33
21	B	1216	CLA	O2A-C1-C2	4.53	120.54	108.64
21	4	4006	CLA	O2A-CGA-O1A	-4.53	112.16	123.59
21	4	4007	CLA	C1D-ND-C4D	-4.53	103.12	106.33
21	1	1001	CLA	O2A-C1-C2	4.52	120.51	108.64
21	A	1126	CLA	O2A-C1-C2	4.52	120.50	108.64
19	A	6008	BCR	C32-C1-C31	4.52	122.39	108.53
21	A	1127	CLA	C4A-NA-C1A	4.52	108.74	106.71
19	J	6013	BCR	C38-C26-C25	-4.51	119.46	124.53
19	B	6004	BCR	C15-C14-C13	-4.51	120.87	127.31
21	1	1008	CLA	O2A-CGA-CBA	4.51	126.06	111.91
27	4	4503	NEX	C35-C34-C33	4.51	133.75	127.31
21	1	1001	CLA	C3D-C2D-C1D	-4.51	99.68	105.83
21	2	2009	CLA	CHD-C1D-ND	-4.51	120.31	124.45
21	B	1218	CLA	O2A-C1-C2	4.50	120.47	108.64
21	B	1202	CLA	O2A-CGA-CBA	4.50	126.04	111.91
21	B	1223	CLA	CHD-C1D-ND	-4.50	120.32	124.45
21	A	1125	CLA	O2D-CGD-CBD	4.50	119.27	111.27
21	B	1208	CLA	O2D-CGD-CBD	4.50	119.27	111.27
21	1	1005	CLA	O2A-CGA-CBA	4.50	126.02	111.91
21	1	1001	CLA	CHD-C1D-ND	-4.49	120.32	124.45
19	B	6006	BCR	C38-C26-C25	-4.49	119.48	124.53
21	4	4014	CLA	O2A-CGA-O1A	-4.49	112.11	123.30
21	A	1139	CLA	O2A-CGA-O1A	-4.49	112.26	123.59
23	A	9011	CL0	CAC-C3C-C4C	4.49	130.63	124.81
21	J	1302	CLA	C1D-ND-C4D	-4.49	103.15	106.33
21	B	1224	CLA	O2A-CGA-CBA	4.48	125.97	111.91
27	4	4503	NEX	C11-C10-C9	4.48	133.70	127.31
21	B	9010	CLA	CMA-C3A-C4A	-4.48	99.73	111.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	1	1014	CLA	CHD-C1D-ND	-4.48	120.34	124.45
21	2	2004	CLA	O2A-CGA-CBA	4.47	125.95	111.91
21	A	9013	CLA	O2D-CGD-CBD	4.47	119.21	111.27
21	2	2005	CLA	O2A-CGA-O1A	-4.47	112.31	123.59
21	4	4015	CLA	O2A-CGA-O1A	-4.47	109.14	123.14
21	B	1221	CLA	C1D-ND-C4D	-4.46	103.16	106.33
21	A	1132	CLA	C1D-ND-C4D	-4.46	103.17	106.33
21	B	1237	CLA	C1-C2-C3	-4.45	118.34	126.04
26	4	4501	LUT	C11-C12-C13	-4.45	113.90	126.42
21	A	1140	CLA	O2A-CGA-O1A	-4.45	112.36	123.59
21	F	1303	CLA	C3D-C2D-C1D	-4.45	99.76	105.83
19	A	6017	BCR	C35-C13-C14	-4.45	116.69	122.92
21	4	4008	CLA	O2D-CGD-O1D	-4.45	115.14	123.84
21	B	1228	CLA	C1D-ND-C4D	-4.45	103.17	106.33
19	B	6006	BCR	C28-C27-C26	-4.45	106.14	114.08
21	1	1003	CLA	CAA-C2A-C3A	-4.45	100.60	112.78
21	G	1002	CLA	C1D-ND-C4D	-4.44	103.18	106.33
21	3	3004	CLA	O2D-CGD-CBD	4.44	119.16	111.27
21	B	9022	CLA	CHD-C1D-ND	-4.44	120.37	124.45
21	2	2011	CLA	CHD-C1D-ND	-4.44	120.37	124.45
21	1	1007	CLA	O2A-CGA-CBA	4.44	125.85	111.91
21	1	1013	CLA	O2D-CGD-CBD	4.44	119.16	111.27
21	4	4010	CLA	O2A-CGA-O1A	-4.44	112.40	123.59
21	A	1131	CLA	O2A-CGA-CBA	4.44	125.83	111.91
19	A	6017	BCR	C36-C18-C17	-4.43	116.72	122.92
19	A	6011	BCR	C24-C23-C22	-4.43	119.54	126.23
21	A	1133	CLA	C1D-ND-C4D	-4.43	103.19	106.33
21	3	3008	CLA	O2D-CGD-CBD	4.43	119.14	111.27
21	4	4001	CLA	C4A-NA-C1A	4.43	108.70	106.71
26	1	1502	LUT	C35-C34-C33	-4.43	120.99	127.31
21	4	4005	CLA	C3D-C2D-C1D	-4.42	99.79	105.83
21	2	2014	CLA	O2D-CGD-O1D	-4.42	115.20	123.84
21	J	6015	CLA	C3D-C2D-C1D	-4.42	99.81	105.83
21	2	2010	CLA	O2A-CGA-CBA	4.41	125.76	111.91
21	B	1229	CLA	O2A-C1-C2	4.41	120.23	108.64
21	1	1004	CLA	O2A-C1-C2	4.41	120.22	108.64
21	A	9013	CLA	CAA-C2A-C3A	-4.41	100.71	112.78
23	A	9011	CL0	O2D-CGD-CBD	4.40	119.09	111.27
21	A	9012	CLA	C1C-C2C-C3C	-4.40	102.33	106.96
23	A	9011	CL0	C3D-C2D-C1D	-4.40	99.83	105.83
21	A	1107	CLA	CHD-C1D-ND	-4.40	120.41	124.45
21	A	1103	CLA	O2A-CGA-O1A	-4.39	112.50	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	2	2011	CLA	C3D-C2D-C1D	-4.39	99.84	105.83
21	4	4005	CLA	C1D-ND-C4D	-4.39	103.22	106.33
21	4	4001	CLA	CMC-C2C-C1C	4.39	131.72	125.04
21	4	4005	CLA	C2D-C1D-ND	4.38	113.33	110.10
21	1	1004	CLA	O2A-CGA-CBA	4.38	125.66	111.91
21	4	4010	CLA	CAA-C2A-C3A	-4.38	100.79	112.78
21	2	2009	CLA	O2D-CGD-CBD	4.37	119.04	111.27
21	3	3003	CLA	O2D-CGD-CBD	4.37	119.04	111.27
19	A	6017	BCR	C38-C26-C25	-4.37	119.62	124.53
26	2	2501	LUT	C35-C34-C33	-4.37	121.07	127.31
21	2	2008	CLA	C1C-C2C-C3C	-4.37	102.36	106.96
26	4	4501	LUT	C18-C5-C4	4.37	122.45	114.36
26	1	1501	LUT	C8-C7-C6	4.37	139.47	127.20
21	4	4003	CLA	C1C-C2C-C3C	-4.37	102.37	106.96
26	1	1501	LUT	C11-C10-C9	-4.36	121.08	127.31
19	G	2011	BCR	C37-C22-C21	-4.36	116.81	122.92
21	2	2011	CLA	C1D-ND-C4D	-4.36	103.24	106.33
26	2	2502	LUT	C7-C8-C9	-4.36	119.65	126.23
21	B	9023	CLA	C1D-ND-C4D	-4.36	103.24	106.33
21	1	1010	CLA	CHD-C1D-ND	-4.35	120.45	124.45
19	B	6005	BCR	C36-C18-C17	-4.35	116.83	122.92
21	2	2006	CLA	O2A-CGA-CBA	4.35	125.57	111.91
21	A	1110	CLA	O2A-C1-C2	4.34	120.04	108.64
21	2	2007	CLA	CHD-C1D-ND	-4.34	120.47	124.45
21	4	4013	CLA	O2A-CGA-CBA	4.33	125.51	111.91
21	A	1140	CLA	O2A-CGA-CBA	4.33	125.49	111.91
19	A	6017	BCR	C23-C22-C21	4.33	125.58	118.94
21	4	4013	CLA	CHD-C1D-ND	-4.33	120.48	124.45
20	A	7001	LHG	O7-C7-C8	4.32	120.82	111.50
21	B	1222	CLA	O2A-CGA-CBA	4.32	125.48	111.91
19	A	6017	BCR	C24-C23-C22	-4.32	119.71	126.23
21	3	3012	CLA	O2A-CGA-O1A	-4.32	112.53	123.30
26	4	4502	LUT	C11-C10-C9	-4.31	121.15	127.31
21	A	1125	CLA	OBD-CAD-C3D	-4.31	118.16	128.52
21	3	3013	CLA	O2A-CGA-CBA	4.31	125.42	111.91
21	A	1141	CLA	O2A-C1-C2	4.30	119.95	108.64
19	J	6012	BCR	C15-C14-C13	-4.30	121.17	127.31
21	4	4007	CLA	O2D-CGD-CBD	4.30	118.91	111.27
21	3	3001	CLA	O2A-CGA-O1A	-4.30	112.74	123.59
19	B	6006	BCR	C34-C9-C10	-4.30	116.90	122.92
19	G	2011	BCR	C23-C22-C21	4.29	125.53	118.94
19	I	6018	BCR	C38-C26-C25	-4.29	119.71	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	4	4007	CLA	O2A-CGA-O1A	-4.29	112.77	123.59
19	A	6002	BCR	C7-C8-C9	-4.29	119.76	126.23
21	B	9023	CLA	CHD-C1D-ND	-4.28	120.52	124.45
21	A	1109	CLA	O2A-CGA-CBA	4.28	125.35	111.91
19	I	6018	BCR	C28-C27-C26	-4.28	106.43	114.08
21	A	1125	CLA	C1D-ND-C4D	-4.28	103.30	106.33
21	4	4003	CLA	O2D-CGD-CBD	4.28	118.87	111.27
19	A	6011	BCR	C28-C27-C26	-4.28	106.44	114.08
19	J	6012	BCR	C37-C22-C21	-4.27	116.94	122.92
21	1	1001	CLA	O2A-CGA-CBA	4.27	125.30	111.91
26	1	1502	LUT	C28-C29-C30	4.26	125.48	118.94
21	3	3013	CLA	O2A-C1-C2	4.26	119.83	108.64
26	4	4502	LUT	C37-C21-C36	4.26	114.17	107.89
21	2	2011	CLA	CAA-C2A-C1A	-4.25	98.06	111.97
21	A	1136	CLA	C1-C2-C3	-4.25	118.70	126.04
26	2	2502	LUT	C11-C10-C9	-4.25	121.25	127.31
21	2	2007	CLA	C1D-ND-C4D	-4.25	103.32	106.33
19	F	6016	BCR	C32-C1-C31	4.24	121.55	108.53
21	B	1235	CLA	O2A-CGA-CBA	4.24	125.22	111.91
21	J	6015	CLA	O2A-CGA-O1A	-4.24	112.89	123.59
21	B	1214	CLA	C1-C2-C3	-4.24	118.71	126.04
21	3	3011	CLA	C2C-C1C-NC	4.24	113.94	109.97
19	B	6006	BCR	C32-C1-C31	4.24	121.53	108.53
19	B	6009	BCR	C3-C4-C5	-4.23	106.53	114.08
21	2	2003	CLA	O2D-CGD-O1D	-4.22	115.58	123.84
21	A	1115	CLA	C1-C2-C3	-4.21	118.75	126.04
21	A	1106	CLA	CMC-C2C-C1C	4.21	131.45	125.04
21	B	1202	CLA	O2A-C1-C2	4.21	119.70	108.64
21	A	1122	CLA	O2A-CGA-CBA	4.21	125.12	111.91
21	J	1302	CLA	O2A-CGA-CBA	4.21	125.12	111.91
21	A	1129	CLA	O2A-CGA-CBA	4.21	125.11	111.91
26	1	1501	LUT	C8-C9-C10	4.21	125.40	118.94
21	4	4010	CLA	O2A-C1-C2	4.21	119.69	108.64
21	1	1004	CLA	C1D-ND-C4D	-4.21	103.35	106.33
21	J	6014	CLA	O2A-CGA-CBA	4.20	125.09	111.91
21	2	2011	CLA	O2D-CGD-O1D	-4.19	115.65	123.84
21	G	1002	CLA	CHD-C1D-ND	-4.19	120.61	124.45
21	1	1012	CLA	O2D-CGD-CBD	4.19	118.70	111.27
21	2	2003	CLA	CGD-CBD-CAD	-4.18	97.19	110.73
27	4	4503	NEX	C38-C25-C24	4.18	118.98	114.28
26	2	2501	LUT	C21-C26-C25	4.18	118.91	111.42
26	1	1502	LUT	C31-C32-C33	-4.18	114.68	126.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	G	2011	BCR	C24-C23-C22	-4.18	119.92	126.23
21	4	4014	CLA	C3D-C2D-C1D	-4.18	100.13	105.83
21	1	1009	CLA	C2D-C1D-ND	4.18	113.18	110.10
21	B	9023	CLA	O2A-CGA-CBA	4.18	125.01	111.91
21	B	1204	CLA	O2A-C1-C2	4.17	119.60	108.64
19	A	6003	BCR	C38-C26-C25	-4.17	119.85	124.53
19	A	6017	BCR	C37-C22-C21	-4.16	117.09	122.92
21	4	4002	CLA	O2A-CGA-O1A	-4.16	113.10	123.59
21	4	4009	CLA	O2A-CGA-CBA	4.15	124.94	111.91
21	2	2003	CLA	O2A-C1-C2	4.15	119.54	108.64
21	B	1210	CLA	O2A-CGA-CBA	4.15	124.93	111.91
21	B	1213	CLA	C1D-ND-C4D	-4.15	103.39	106.33
21	4	4001	CLA	CHD-C1D-ND	-4.14	120.65	124.45
19	B	6005	BCR	C8-C9-C10	4.14	125.30	118.94
21	B	1230	CLA	O2A-CGA-CBA	4.14	124.90	111.91
26	4	4501	LUT	C35-C34-C33	-4.14	121.40	127.31
21	4	4006	CLA	CBC-CAC-C3C	-4.14	101.02	112.43
21	B	1215	CLA	O2A-CGA-CBA	4.14	124.89	111.91
21	1	1002	CLA	O2A-CGA-O1A	-4.13	113.18	123.59
21	A	1137	CLA	O2A-CGA-CBA	4.12	124.84	111.91
21	1	1007	CLA	O2A-C1-C2	4.12	119.46	108.64
21	A	9013	CLA	C1D-ND-C4D	-4.12	103.41	106.33
21	3	3014	CLA	CBC-CAC-C3C	-4.12	101.08	112.43
26	4	4502	LUT	C35-C34-C33	-4.11	121.44	127.31
19	I	6020	BCR	C19-C18-C17	4.11	125.25	118.94
19	F	6016	BCR	C40-C30-C39	4.11	121.13	108.53
19	A	6011	BCR	C40-C30-C39	4.11	121.13	108.53
26	2	2501	LUT	C7-C8-C9	-4.11	120.03	126.23
21	B	1221	CLA	CHD-C1D-ND	-4.10	120.68	124.45
21	2	2005	CLA	O2D-CGD-CBD	4.10	118.56	111.27
21	4	4005	CLA	O2A-CGA-CBA	4.10	127.21	114.03
21	A	1137	CLA	O2A-CGA-O1A	-4.10	113.24	123.59
19	L	6019	BCR	C7-C8-C9	-4.10	120.04	126.23
21	B	1226	CLA	C1D-ND-C4D	-4.10	103.42	106.33
21	B	1237	CLA	O2A-CGA-CBA	4.10	124.77	111.91
21	4	4005	CLA	CGD-CBD-CAD	4.10	124.01	110.73
21	B	1228	CLA	O2A-CGA-CBA	4.10	124.76	111.91
21	G	1001	CLA	CAA-C2A-C1A	-4.09	98.56	111.97
27	4	4503	NEX	C11-C12-C13	4.09	137.91	126.42
21	A	1132	CLA	O2A-CGA-CBA	4.09	124.75	111.91
21	3	3010	CLA	O2A-CGA-CBA	4.09	124.75	111.91
21	2	2012	CLA	O2D-CGD-CBD	4.09	118.54	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	1	1006	CLA	O2A-CGA-CBA	4.09	124.74	111.91
21	A	1107	CLA	O2A-CGA-CBA	4.09	124.73	111.91
21	1	1008	CLA	O2D-CGD-O1D	-4.08	115.86	123.84
21	B	1211	CLA	O2A-CGA-CBA	4.08	124.71	111.91
19	F	6014	BCR	C40-C30-C29	-4.08	92.60	108.91
19	J	6013	BCR	C8-C9-C10	4.07	125.19	118.94
21	3	3013	CLA	C1D-ND-C4D	-4.07	103.44	106.33
21	B	1225	CLA	O2A-CGA-CBA	4.07	124.69	111.91
21	2	2013	CLA	O2A-CGA-CBA	4.07	124.68	111.91
19	A	6003	BCR	C7-C8-C9	-4.07	120.08	126.23
21	2	2008	CLA	O2D-CGD-O1D	-4.07	115.88	123.84
21	4	4015	CLA	C1D-ND-C4D	-4.07	103.44	106.33
19	A	6011	BCR	C7-C8-C9	-4.07	120.09	126.23
19	A	6008	BCR	C28-C27-C26	-4.06	106.82	114.08
21	A	1126	CLA	O2A-CGA-CBA	4.06	124.66	111.91
19	G	2011	BCR	C15-C14-C13	-4.06	121.51	127.31
21	A	1124	CLA	O2A-CGA-CBA	4.06	124.65	111.91
21	B	1227	CLA	C1-O2A-CGA	4.06	127.09	116.44
21	4	4011	CLA	C1D-ND-C4D	-4.06	103.45	106.33
19	B	6004	BCR	C7-C8-C9	-4.05	120.11	126.23
26	1	1502	LUT	C11-C12-C13	-4.05	115.04	126.42
21	F	1303	CLA	O2D-CGD-CBD	4.05	118.46	111.27
19	L	6019	BCR	C37-C22-C21	-4.04	117.26	122.92
25	J	5001	LMG	O7-C10-C11	4.04	120.20	111.50
19	A	6008	BCR	C33-C5-C6	-4.03	120.00	124.53
21	B	1204	CLA	O2A-CGA-CBA	4.03	124.56	111.91
21	A	1139	CLA	O2D-CGD-CBD	4.03	118.43	111.27
19	F	6014	BCR	C33-C5-C6	-4.03	120.00	124.53
21	A	9012	CLA	C3C-C4C-NC	4.03	115.08	110.57
21	A	1133	CLA	O2A-CGA-O1A	-4.02	110.53	123.14
21	1	1006	CLA	O2A-C1-C2	4.02	123.21	108.42
21	A	1132	CLA	O2D-CGD-CBD	4.02	118.41	111.27
21	1	1013	CLA	O2A-CGA-CBA	4.02	124.52	111.91
21	B	9022	CLA	O2D-CGD-CBD	4.00	118.38	111.27
21	B	1223	CLA	O2A-CGA-CBA	4.00	124.46	111.91
21	3	3003	CLA	O2A-CGA-CBA	4.00	124.46	111.91
21	1	1002	CLA	CMB-C2B-C3B	4.00	132.16	124.68
21	A	1133	CLA	CMA-C3A-C4A	-3.99	101.05	111.77
21	B	1229	CLA	O2A-CGA-CBA	3.99	124.42	111.91
26	4	4502	LUT	C19-C9-C10	-3.98	117.34	122.92
19	I	6018	BCR	C23-C22-C21	3.98	125.05	118.94
21	1	1003	CLA	C1D-ND-C4D	-3.98	103.51	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1218	CLA	O2A-CGA-CBA	3.97	124.38	111.91
21	B	1218	CLA	C1-C2-C3	-3.97	119.18	126.04
19	B	6009	BCR	C33-C5-C6	-3.97	120.07	124.53
20	2	2801	LHG	O7-C7-C8	3.97	120.05	111.50
21	B	1240	CLA	O2D-CGD-O1D	-3.96	116.09	123.84
21	B	1240	CLA	O2A-C1-C2	3.96	119.05	108.64
21	3	3012	CLA	C1D-ND-C4D	-3.96	103.53	106.33
27	4	4503	NEX	O24-C25-C24	-3.95	110.41	113.38
21	1	1006	CLA	C1D-ND-C4D	-3.95	103.53	106.33
21	2	2001	CLA	C2C-C1C-NC	3.95	116.21	109.51
19	G	2011	BCR	C8-C7-C6	-3.95	116.10	127.20
21	4	4003	CLA	O2A-CGA-O1A	-3.95	113.62	123.59
23	A	9011	CL0	CMA-C3A-C4A	-3.95	101.16	111.77
21	1	1009	CLA	C1-C2-C3	-3.95	119.22	126.04
21	A	1125	CLA	C1-C2-C3	-3.95	119.22	126.04
21	3	3012	CLA	O1D-CGD-CBD	-3.95	116.41	124.48
21	F	1303	CLA	C1C-C2C-C3C	-3.94	102.81	106.96
23	A	9011	CL0	CHD-C1D-ND	-3.94	120.83	124.45
21	B	9023	CLA	O2A-C1-C2	3.94	118.99	108.64
21	A	1101	CLA	O2A-CGA-CBA	3.94	124.27	111.91
21	4	4005	CLA	CAC-C3C-C2C	-3.93	120.80	127.53
21	B	1205	CLA	O2A-CGA-CBA	3.93	124.24	111.91
19	B	6011	BCR	C33-C5-C6	-3.93	120.12	124.53
21	F	1303	CLA	C1D-ND-C4D	-3.93	103.55	106.33
21	B	1220	CLA	C1-C2-C3	-3.92	119.25	126.04
23	A	9011	CL0	C4-C3-C5	3.92	121.87	115.27
19	J	6012	BCR	C34-C9-C10	-3.92	117.43	122.92
26	1	1502	LUT	C10-C11-C12	3.92	135.44	123.22
21	F	1303	CLA	CHD-C1D-ND	-3.91	120.86	124.45
21	A	1138	CLA	O2A-CGA-CBA	3.91	124.19	111.91
26	2	2501	LUT	C15-C14-C13	-3.91	121.73	127.31
23	A	9011	CL0	C1D-ND-C4D	-3.91	103.56	106.33
21	A	1104	CLA	O2A-CGA-CBA	3.91	124.18	111.91
21	A	1116	CLA	O2A-CGA-CBA	3.91	124.18	111.91
21	4	4004	CLA	O2A-CGA-CBA	3.91	124.18	111.91
21	2	2002	CLA	O2A-C1-C2	3.91	118.91	108.64
21	A	1134	CLA	O2A-CGA-O1A	-3.91	110.89	123.14
19	B	6005	BCR	C34-C9-C10	-3.91	117.45	122.92
21	G	1001	CLA	O2A-CGA-CBA	3.91	124.17	111.91
21	3	3001	CLA	C1-C2-C3	-3.91	119.29	126.04
21	B	1203	CLA	O2A-CGA-CBA	3.90	124.14	111.91
21	1	1014	CLA	CGD-CBD-CAD	-3.89	98.13	110.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	A	6003	BCR	C33-C5-C4	3.89	121.09	113.62
21	B	1208	CLA	O2A-CGA-CBA	3.89	124.11	111.91
21	2	2001	CLA	C2D-C1D-ND	3.89	115.33	109.46
21	L	1503	CLA	C1-C2-C3	-3.88	120.47	126.75
21	A	1139	CLA	O2A-CGA-CBA	3.88	124.09	111.91
23	A	9011	CL0	O2A-C1-C2	3.88	118.83	108.64
19	G	2011	BCR	C33-C5-C6	-3.88	120.17	124.53
19	J	6012	BCR	C38-C26-C25	-3.88	120.17	124.53
21	4	4003	CLA	O2D-CGD-O1D	-3.88	116.26	123.84
21	A	9012	CLA	O2A-C1-C2	3.88	118.82	108.64
21	4	4014	CLA	C4A-NA-C1A	3.87	108.45	106.71
21	4	4014	CLA	C3D-C4D-ND	3.87	116.50	110.24
21	4	4009	CLA	CMC-C2C-C1C	3.87	130.93	125.04
21	B	9010	CLA	O2D-CGD-CBD	3.87	118.14	111.27
19	B	6005	BCR	C23-C22-C21	3.87	124.88	118.94
19	A	6008	BCR	C40-C30-C39	3.87	120.40	108.53
21	A	1110	CLA	O2A-CGA-CBA	3.87	124.05	111.91
19	A	6011	BCR	C3-C4-C5	-3.87	107.17	114.08
21	A	1105	CLA	O2A-CGA-CBA	3.87	124.04	111.91
21	A	9012	CLA	O2A-CGA-CBA	3.87	124.04	111.91
26	4	4502	LUT	C8-C9-C10	3.86	124.87	118.94
19	A	6007	BCR	C33-C5-C6	-3.86	120.19	124.53
19	A	6007	BCR	C34-C9-C10	-3.86	117.51	122.92
21	1	1008	CLA	O2A-C1-C2	3.86	118.78	108.64
21	A	1102	CLA	C1-C2-C3	-3.86	120.51	126.75
21	A	1106	CLA	C1-C2-C3	-3.86	119.37	126.04
21	A	1112	CLA	O2A-CGA-O1A	-3.86	111.05	123.14
21	A	1113	CLA	O2A-CGA-O1A	-3.86	111.05	123.14
21	1	1004	CLA	CMC-C2C-C1C	3.85	130.91	125.04
21	2	2013	CLA	CMC-C2C-C1C	3.85	130.91	125.04
21	L	1501	CLA	O2A-CGA-O1A	-3.85	111.06	123.14
21	2	2002	CLA	O2D-CGD-CBD	3.85	118.11	111.27
21	B	1217	CLA	O2A-CGA-O1A	-3.85	111.07	123.14
21	B	1201	CLA	O2A-CGA-O1A	-3.85	111.07	123.14
19	A	6017	BCR	C7-C8-C9	-3.84	120.43	126.23
19	I	6018	BCR	C37-C22-C21	-3.84	117.54	122.92
21	A	1121	CLA	O2A-CGA-O1A	-3.84	111.09	123.14
21	B	1207	CLA	O2A-CGA-CBA	3.84	123.97	111.91
21	A	1108	CLA	O2A-CGA-O1A	-3.84	111.11	123.14
26	1	1501	LUT	C30-C31-C32	3.84	135.19	123.22
21	B	1209	CLA	O2A-CGA-O1A	-3.84	111.12	123.14
21	F	1302	CLA	O2A-CGA-O1A	-3.83	111.12	123.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	1	1006	CLA	CMB-C2B-C3B	3.83	131.85	124.68
21	B	1238	CLA	O2A-CGA-CBA	3.83	123.93	111.91
21	B	1231	CLA	O2A-CGA-O1A	-3.83	111.14	123.14
21	A	1120	CLA	O2A-CGA-O1A	-3.83	111.14	123.14
18	A	5001	PQN	C14-C13-C15	3.83	121.71	115.27
21	A	1123	CLA	O2A-CGA-CBA	3.83	123.91	111.91
21	B	1206	CLA	O2A-CGA-CBA	3.82	123.90	111.91
19	I	6020	BCR	C33-C5-C6	-3.82	120.24	124.53
21	B	1228	CLA	CMC-C2C-C1C	3.82	130.85	125.04
21	A	1119	CLA	O2A-CGA-CBA	3.81	123.87	111.91
21	B	1221	CLA	C1-C2-C3	-3.81	119.46	126.04
21	G	1001	CLA	C1-C2-C3	-3.81	119.46	126.04
26	4	4501	LUT	C10-C11-C12	3.81	135.09	123.22
26	1	1501	LUT	C10-C11-C12	3.81	135.09	123.22
21	1	1010	CLA	O2A-CGA-CBA	3.80	123.84	111.91
21	3	3006	CLA	O2A-CGA-CBA	3.80	123.83	111.91
21	B	1220	CLA	O2A-CGA-CBA	3.80	123.83	111.91
21	3	3012	CLA	C4D-C3D-CAD	3.80	112.58	108.10
21	H	1000	CLA	O2A-CGA-O1A	-3.80	111.23	123.14
19	B	6005	BCR	C37-C22-C21	-3.80	117.60	122.92
21	1	1009	CLA	C4D-CHA-C1A	3.80	125.87	121.25
21	2	2003	CLA	O2A-CGA-CBA	3.80	123.82	111.91
20	B	7004	LHG	O7-C7-C8	3.80	119.68	111.50
21	A	1130	CLA	O2A-CGA-O1A	-3.79	111.25	123.14
21	A	1118	CLA	O2A-CGA-O1A	-3.79	111.26	123.14
21	B	1214	CLA	O2A-CGA-CBA	3.79	123.80	111.91
21	2	2008	CLA	C4D-CHA-C1A	3.79	125.86	121.25
21	3	3017	CLA	CMD-C2D-C3D	-3.79	118.90	127.61
21	A	1102	CLA	O2A-CGA-CBA	3.79	123.79	111.91
21	3	3008	CLA	O2A-CGA-CBA	3.78	123.78	111.91
21	B	9023	CLA	CMA-C3A-C4A	-3.78	101.61	111.77
19	A	6002	BCR	C33-C5-C6	-3.78	120.29	124.53
21	3	3009	CLA	C4D-C3D-CAD	3.77	112.55	108.10
21	2	2014	CLA	CAC-C3C-C4C	3.77	129.70	124.81
21	1	1002	CLA	O2A-CGA-CBA	3.77	123.74	111.91
21	L	1502	CLA	O2A-CGA-CBA	3.77	123.73	111.91
19	I	6018	BCR	C40-C30-C39	3.76	120.08	108.53
21	A	1106	CLA	O2A-CGA-CBA	3.76	123.70	111.91
19	F	6016	BCR	C33-C5-C6	-3.75	120.31	124.53
26	1	1501	LUT	C15-C14-C13	-3.75	121.96	127.31
21	A	1117	CLA	O2A-CGA-CBA	3.75	123.66	111.91
19	B	6004	BCR	C27-C26-C25	-3.74	117.30	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	4	4001	CLA	C4D-C3D-CAD	3.74	112.50	108.10
21	B	1230	CLA	C4-C3-C5	3.74	121.56	115.27
21	4	4002	CLA	C4D-C3D-CAD	3.73	112.50	108.10
21	B	1222	CLA	CMB-C2B-C3B	3.73	131.66	124.68
21	1	1009	CLA	O1D-CGD-CBD	-3.73	116.86	124.48
21	2	2010	CLA	C1D-ND-C4D	-3.73	103.69	106.33
21	2	2005	CLA	O2A-CGA-CBA	3.72	123.59	111.91
21	4	4010	CLA	C1-C2-C3	-3.72	120.73	126.75
26	2	2501	LUT	C2-C3-C4	-3.72	105.21	110.30
21	2	2008	CLA	CMB-C2B-C3B	3.72	131.64	124.68
21	A	1132	CLA	CAC-C3C-C4C	3.72	129.63	124.81
21	B	1228	CLA	O2D-CGD-O1D	-3.72	116.57	123.84
27	4	4503	NEX	C1-C2-C3	3.72	122.04	113.64
19	L	6019	BCR	C33-C5-C6	-3.72	120.36	124.53
21	B	1239	CLA	C3C-C4C-NC	3.71	114.73	110.57
21	B	9022	CLA	O2A-CGA-CBA	3.71	123.55	111.91
21	4	4011	CLA	C4-C3-C5	3.71	121.51	115.27
21	4	4010	CLA	O2A-CGA-CBA	3.71	123.54	111.91
21	4	4006	CLA	C4D-C3D-CAD	3.70	112.46	108.10
19	B	6006	BCR	C40-C30-C39	3.70	119.89	108.53
21	L	1503	CLA	O2A-CGA-CBA	3.70	123.52	111.91
21	B	1226	CLA	CHD-C1D-ND	-3.70	121.06	124.45
21	A	1114	CLA	O2A-CGA-O1A	-3.70	111.55	123.14
21	B	1212	CLA	O2A-CGA-O1A	-3.70	111.55	123.14
21	G	1001	CLA	C4D-C3D-CAD	3.70	112.45	108.10
21	B	1211	CLA	C1-C2-C3	-3.69	119.65	126.04
19	A	6008	BCR	C33-C5-C4	3.69	120.71	113.62
19	J	6013	BCR	C33-C5-C6	-3.69	120.39	124.53
26	1	1501	LUT	C31-C32-C33	-3.69	116.05	126.42
21	1	1001	CLA	C1D-ND-C4D	-3.69	103.72	106.33
19	I	6020	BCR	C38-C26-C25	-3.68	120.39	124.53
19	B	6006	BCR	C24-C23-C22	-3.68	120.67	126.23
21	B	1213	CLA	CAA-C2A-C3A	-3.68	102.70	112.78
21	A	1122	CLA	O2D-CGD-O1D	-3.67	116.66	123.84
21	A	1116	CLA	C1-C2-C3	-3.67	119.70	126.04
21	A	9012	CLA	OBD-CAD-C3D	-3.66	119.71	128.52
21	A	1141	CLA	O2A-CGA-CBA	3.66	123.39	111.91
21	4	4011	CLA	CMC-C2C-C1C	3.65	130.60	125.04
21	2	2006	CLA	CMC-C2C-C1C	3.65	130.59	125.04
21	2	2007	CLA	O2A-C1-C2	3.65	118.22	108.64
26	4	4502	LUT	C40-C33-C34	-3.65	117.81	122.92
19	J	6012	BCR	C8-C9-C10	3.65	124.54	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	4	4006	CLA	C1-C2-C3	-3.64	119.75	126.04
21	G	1002	CLA	O2A-CGA-O1A	-3.64	111.73	123.14
21	2	2003	CLA	CMD-C2D-C3D	-3.64	119.24	127.61
23	A	9011	CL0	O2D-CGD-O1D	-3.63	116.73	123.84
21	B	1236	CLA	O2A-CGA-CBA	3.63	123.31	111.91
21	A	1127	CLA	O2A-CGA-CBA	3.63	123.30	111.91
21	3	3012	CLA	CMD-C2D-C3D	-3.63	119.27	127.61
21	1	1010	CLA	O2D-CGD-CBD	3.62	117.71	111.27
21	B	1234	CLA	O2A-CGA-CBA	3.62	123.28	111.91
21	A	1107	CLA	C4-C3-C5	3.62	120.13	115.98
21	2	2009	CLA	O2A-CGA-CBA	3.62	126.55	112.23
21	1	1001	CLA	C4D-C3D-CAD	3.62	112.36	108.10
21	4	4003	CLA	CHD-C1D-ND	-3.61	121.13	124.45
21	B	1208	CLA	C1-C2-C3	-3.61	119.80	126.04
21	B	9022	CLA	CMB-C2B-C3B	3.61	131.43	124.68
21	A	1104	CLA	C1-C2-C3	-3.61	119.80	126.04
19	F	6014	BCR	C3-C4-C5	-3.60	107.64	114.08
21	B	1219	CLA	O2A-CGA-CBA	3.60	123.21	111.91
21	1	1002	CLA	CMC-C2C-C1C	3.60	130.52	125.04
19	B	6004	BCR	C19-C18-C17	3.60	124.46	118.94
21	A	1135	CLA	O2A-CGA-CBA	3.60	123.20	111.91
21	A	1136	CLA	C4-C3-C5	3.60	121.32	115.27
21	1	1012	CLA	O2A-CGA-CBA	3.59	123.18	111.91
21	2	2012	CLA	O2A-CGA-CBA	3.59	123.17	111.91
26	1	1501	LUT	C19-C9-C10	-3.58	117.90	122.92
26	4	4502	LUT	C31-C32-C33	-3.58	116.35	126.42
26	1	1502	LUT	C32-C33-C34	3.58	124.44	118.94
21	2	2007	CLA	O2A-CGA-CBA	3.58	123.15	111.91
21	A	1115	CLA	O2A-CGA-CBA	3.58	123.14	111.91
19	A	6017	BCR	C33-C5-C6	-3.58	120.51	124.53
21	2	2008	CLA	OBD-CAD-C3D	-3.57	119.92	128.52
21	2	2010	CLA	C4-C3-C5	3.57	121.28	115.27
21	A	1141	CLA	C4-C3-C5	3.57	120.06	115.98
26	1	1501	LUT	C20-C13-C14	-3.57	117.92	122.92
19	B	6004	BCR	C38-C26-C27	3.57	120.47	113.62
26	4	4501	LUT	C22-C23-C24	-3.56	107.69	111.74
21	B	1210	CLA	CMB-C2B-C3B	3.56	131.34	124.68
21	A	1106	CLA	CMB-C2B-C3B	3.56	131.34	124.68
19	B	6006	BCR	C32-C1-C2	3.56	123.15	108.91
19	F	6016	BCR	C32-C1-C2	3.56	123.14	108.91
21	B	9023	CLA	O2D-CGD-CBD	3.56	117.59	111.27
26	1	1501	LUT	C11-C12-C13	-3.56	116.43	126.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	A	6003	BCR	C4-C5-C6	-3.55	117.57	122.73
21	1	1009	CLA	CMD-C2D-C3D	-3.55	119.44	127.61
21	B	9010	CLA	O2A-CGA-CBA	3.55	123.05	111.91
21	1	1002	CLA	C4D-C3D-CAD	3.55	112.28	108.10
21	A	9013	CLA	O2A-C1-C2	3.55	117.96	108.64
19	B	6004	BCR	C33-C5-C6	-3.54	120.55	124.53
21	B	1224	CLA	C1-C2-C3	-3.54	119.92	126.04
21	2	2003	CLA	C3D-C4D-ND	3.53	115.95	110.24
21	3	3013	CLA	C1-C2-C3	-3.53	121.04	126.75
26	4	4502	LUT	C20-C13-C14	-3.53	117.98	122.92
21	B	1210	CLA	C1-C2-C3	-3.53	119.94	126.04
21	A	9012	CLA	CMA-C3A-C4A	-3.52	102.31	111.77
21	1	1002	CLA	O2D-CGD-CBD	3.52	117.53	111.27
26	1	1501	LUT	C35-C34-C33	-3.52	122.29	127.31
21	G	1001	CLA	CMB-C2B-C3B	3.52	131.26	124.68
21	B	9023	CLA	C1-O2A-CGA	3.52	125.67	116.44
21	4	4006	CLA	OBD-CAD-C3D	-3.52	120.06	128.52
23	A	9011	CL0	O2A-CGA-CBA	3.51	122.93	111.91
21	A	1140	CLA	C4-C3-C5	3.51	121.18	115.27
21	A	1122	CLA	C1-C2-C3	-3.51	119.97	126.04
26	4	4502	LUT	C10-C11-C12	3.51	134.17	123.22
19	A	6008	BCR	C37-C22-C21	-3.51	118.01	122.92
26	4	4501	LUT	C31-C32-C33	-3.51	116.56	126.42
19	I	6018	BCR	C23-C24-C25	-3.50	117.37	127.20
26	1	1502	LUT	C20-C13-C14	-3.50	118.02	122.92
21	A	1132	CLA	C1-C2-C3	-3.50	119.99	126.04
19	A	6007	BCR	C38-C26-C25	-3.50	120.60	124.53
19	L	6020	BCR	C33-C5-C6	-3.50	120.60	124.53
26	1	1501	LUT	C37-C21-C26	-3.49	104.25	109.55
21	4	4008	CLA	CHD-C1D-ND	-3.49	121.24	124.45
21	4	4014	CLA	OBD-CAD-C3D	-3.49	120.12	128.52
21	3	3011	CLA	O2A-CGA-O1A	-3.49	112.21	123.14
21	1	1007	CLA	CMC-C2C-C1C	3.49	130.35	125.04
21	A	1136	CLA	O2A-CGA-CBA	3.48	122.83	111.91
19	B	6006	BCR	C33-C5-C6	-3.48	120.62	124.53
21	1	1004	CLA	O2D-CGD-O1D	-3.48	117.04	123.84
21	3	3009	CLA	O2A-CGA-O1A	-3.48	112.25	123.14
19	B	6011	BCR	C33-C5-C4	3.47	120.28	113.62
21	4	4005	CLA	CBC-CAC-C3C	-3.47	102.88	112.43
21	4	4014	CLA	CAC-C3C-C4C	3.46	129.30	124.81
21	4	4002	CLA	O2A-CGA-CBA	3.46	122.77	111.91
21	B	1216	CLA	O2A-CGA-CBA	3.46	122.76	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	2	2014	CLA	CAA-C2A-C3A	-3.46	103.31	112.78
21	A	1142	CLA	O2A-CGA-CBA	3.46	125.14	114.03
19	L	6019	BCR	C19-C18-C17	3.46	124.25	118.94
21	2	2003	CLA	C4-C3-C5	3.45	121.08	115.27
21	1	1003	CLA	O2A-CGA-O1A	-3.45	114.88	123.59
19	B	6004	BCR	C36-C18-C17	-3.45	118.09	122.92
21	2	2008	CLA	O2A-CGA-CBA	3.45	122.74	111.91
21	B	1230	CLA	C1-C2-C3	-3.45	120.08	126.04
21	2	2004	CLA	C1-C2-C3	-3.45	120.08	126.04
21	4	4002	CLA	C1-C2-C3	-3.45	120.08	126.04
21	A	1128	CLA	C1-C2-C3	-3.45	120.08	126.04
21	4	4003	CLA	C1-C2-C3	-3.45	120.08	126.04
21	A	1129	CLA	C1-C2-C3	-3.44	121.18	126.75
21	1	1004	CLA	CAC-C3C-C4C	3.44	129.27	124.81
21	L	1502	CLA	C1-C2-C3	-3.44	120.09	126.04
21	A	1125	CLA	CHD-C1D-ND	-3.44	121.30	124.45
19	B	6010	BCR	C33-C5-C6	-3.44	120.67	124.53
21	4	4006	CLA	C3D-C4D-ND	3.43	115.79	110.24
21	B	1228	CLA	CMB-C2B-C3B	3.43	131.09	124.68
26	1	1501	LUT	C37-C21-C36	3.43	112.95	107.89
21	1	1008	CLA	C4-C3-C5	3.43	121.03	115.27
26	4	4502	LUT	C28-C29-C30	3.43	124.20	118.94
19	A	6007	BCR	C36-C18-C17	-3.43	118.12	122.92
21	1	1007	CLA	C3D-C4D-ND	3.42	115.78	110.24
26	4	4501	LUT	C15-C14-C13	-3.42	122.43	127.31
25	G	2021	LMG	O1-C1-C2	3.42	113.64	108.30
26	1	1502	LUT	C8-C9-C10	3.42	124.19	118.94
19	B	6010	BCR	C24-C23-C22	-3.42	121.07	126.23
21	1	1003	CLA	C4-C3-C5	3.41	121.01	115.27
21	A	1128	CLA	O2A-CGA-CBA	3.41	122.61	111.91
21	G	1001	CLA	O2D-CGD-O1D	-3.41	117.18	123.84
21	2	2014	CLA	CMB-C2B-C3B	3.41	131.05	124.68
26	1	1502	LUT	C40-C33-C34	-3.41	118.15	122.92
19	A	6003	BCR	C8-C7-C6	-3.40	117.64	127.20
21	3	3003	CLA	C1-C2-C3	-3.40	120.16	126.04
21	3	3001	CLA	O2A-CGA-CBA	3.40	122.58	111.91
21	2	2006	CLA	O2A-C1-C2	3.40	117.57	108.64
21	A	1114	CLA	CMB-C2B-C3B	3.40	131.03	124.68
26	1	1502	LUT	C15-C14-C13	-3.39	122.47	127.31
21	2	2010	CLA	CMB-C2B-C3B	3.39	131.02	124.68
26	1	1502	LUT	O3-C3-C2	-3.39	103.07	109.80
21	B	1221	CLA	O2A-CGA-CBA	3.39	122.54	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	F	6014	BCR	C15-C14-C13	-3.39	122.48	127.31
21	4	4006	CLA	CAC-C3C-C2C	3.39	133.32	127.53
24	B	7101	DGD	O3G-C3G-C2G	-3.38	102.73	110.90
21	1	1012	CLA	C1-C2-C3	-3.38	121.28	126.75
21	4	4007	CLA	O2A-CGA-CBA	3.38	122.51	111.91
21	4	4005	CLA	C3D-C4D-ND	3.38	115.70	110.24
26	1	1501	LUT	C40-C33-C34	-3.38	118.19	122.92
19	I	6020	BCR	C24-C23-C22	-3.37	121.14	126.23
21	B	1207	CLA	C1-C2-C3	-3.37	120.21	126.04
26	4	4502	LUT	C15-C14-C13	-3.37	122.50	127.31
21	B	1228	CLA	CAA-C2A-C3A	-3.37	103.56	112.78
21	A	9013	CLA	C3C-C4C-NC	3.37	114.34	110.57
21	A	1105	CLA	C4-C3-C5	3.36	119.83	115.98
21	A	1115	CLA	C4-C3-C5	3.36	120.93	115.27
26	2	2502	LUT	C17-C1-C6	-3.36	104.85	110.30
21	G	1001	CLA	CAA-C2A-C3A	-3.36	103.58	112.78
25	G	2021	LMG	C1-O6-C5	-3.36	107.10	113.69
21	2	2013	CLA	CAC-C3C-C4C	3.35	129.16	124.81
21	2	2012	CLA	C3D-C4D-ND	3.35	115.66	110.24
19	F	6016	BCR	C2-C3-C4	-3.35	103.88	111.38
21	A	9013	CLA	CHD-C1D-ND	-3.35	121.37	124.45
21	4	4004	CLA	O2D-CGD-O1D	-3.35	117.29	123.84
21	1	1009	CLA	CAA-C2A-C1A	-3.35	101.01	111.97
21	B	1213	CLA	C1-C2-C3	-3.34	120.26	126.04
21	3	3011	CLA	O2A-CGA-CBA	3.34	125.44	112.23
21	3	3012	CLA	O2A-CGA-CBA	3.34	124.76	114.03
21	A	1137	CLA	C4-C3-C5	3.34	120.89	115.27
21	B	1221	CLA	CMB-C2B-C3B	3.34	130.93	124.68
21	A	9012	CLA	C4D-C3D-CAD	3.34	112.03	108.10
21	A	1131	CLA	O2D-CGD-O1D	-3.34	117.31	123.84
21	J	1302	CLA	C1-C2-C3	-3.34	120.27	126.04
21	A	1103	CLA	O2A-CGA-CBA	3.33	122.37	111.91
21	4	4013	CLA	O2D-CGD-O1D	-3.33	117.32	123.84
21	A	1131	CLA	C4-C3-C5	3.33	120.88	115.27
19	A	6002	BCR	C19-C18-C17	3.33	124.05	118.94
21	1	1002	CLA	C4-C3-C5	3.33	120.87	115.27
21	A	1125	CLA	O2D-CGD-O1D	-3.33	117.33	123.84
21	B	1229	CLA	C1-C2-C3	-3.33	120.29	126.04
21	3	3014	CLA	O2A-CGA-CBA	3.32	124.70	114.03
21	4	4014	CLA	CMC-C2C-C1C	3.32	130.10	125.04
21	B	9010	CLA	CAC-C3C-C4C	3.32	129.12	124.81
21	G	1002	CLA	C4D-C3D-CAD	3.32	112.01	108.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	J	6012	BCR	C30-C25-C26	-3.32	117.94	122.61
21	3	3009	CLA	CGD-CBD-CAD	-3.32	99.99	110.73
21	B	1207	CLA	O2D-CGD-O1D	-3.31	117.36	123.84
21	B	1203	CLA	C1-C2-C3	-3.31	120.32	126.04
21	A	1136	CLA	CAA-C2A-C3A	-3.31	103.72	112.78
21	1	1004	CLA	CAA-C2A-C1A	-3.31	101.14	111.97
21	2	2013	CLA	C1-C2-C3	-3.30	120.33	126.04
21	4	4008	CLA	CMC-C2C-C1C	3.30	130.07	125.04
21	A	1110	CLA	C1-C2-C3	-3.30	120.33	126.04
21	A	1119	CLA	C1-C2-C3	-3.30	120.33	126.04
19	I	6020	BCR	C3-C4-C5	-3.30	108.18	114.08
21	A	1135	CLA	C4-C3-C5	3.30	119.75	115.98
21	1	1014	CLA	O1D-CGD-CBD	-3.30	117.74	124.48
21	4	4011	CLA	CBC-CAC-C3C	-3.29	103.36	112.43
21	4	4009	CLA	O2A-C1-C2	3.28	117.26	108.64
19	A	6007	BCR	C19-C18-C17	3.28	123.97	118.94
19	J	6012	BCR	C38-C26-C27	3.28	119.92	113.62
21	B	1206	CLA	C1-C2-C3	-3.28	120.37	126.04
19	L	6019	BCR	C36-C18-C17	-3.28	118.33	122.92
21	B	1240	CLA	O2A-CGA-CBA	3.27	122.18	111.91
21	3	3002	CLA	C1-C2-C3	-3.27	120.38	126.04
19	B	6009	BCR	C36-C18-C17	-3.27	118.34	122.92
21	A	9012	CLA	CMB-C2B-C3B	3.27	130.80	124.68
21	4	4001	CLA	O1D-CGD-CBD	-3.27	117.80	124.48
21	B	1214	CLA	CMC-C2C-C1C	3.27	130.01	125.04
21	4	4007	CLA	C4-C3-C5	3.27	120.77	115.27
21	2	2014	CLA	C1D-ND-C4D	-3.27	104.02	106.33
21	1	1007	CLA	C1-C2-C3	-3.26	120.40	126.04
19	B	6011	BCR	C7-C8-C9	-3.26	121.31	126.23
21	B	9010	CLA	C1-C2-C3	-3.26	120.41	126.04
18	B	5002	PQN	C14-C13-C15	3.26	120.75	115.27
21	4	4006	CLA	O2A-CGA-CBA	3.25	122.12	111.91
21	4	4004	CLA	C3D-C4D-ND	3.25	115.49	110.24
19	A	6003	BCR	C3-C4-C5	-3.25	108.28	114.08
21	B	1220	CLA	C4-C3-C5	3.25	120.73	115.27
19	F	6014	BCR	C36-C18-C17	-3.24	118.38	122.92
19	B	6010	BCR	C19-C18-C17	3.24	123.92	118.94
21	3	3011	CLA	C3D-C4D-ND	3.24	115.48	110.24
19	A	6007	BCR	C38-C26-C27	3.24	119.84	113.62
19	A	6017	BCR	C38-C26-C27	3.24	119.83	113.62
21	B	1223	CLA	CMB-C2B-C3B	3.23	130.73	124.68
19	L	6020	BCR	C34-C9-C10	-3.23	118.39	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1240	CLA	C1-O2A-CGA	3.23	124.93	116.44
21	A	1133	CLA	O2A-CGA-CBA	3.23	125.01	112.23
21	A	1117	CLA	CMB-C2B-C3B	3.23	130.73	124.68
21	4	4001	CLA	CBC-CAC-C3C	-3.23	103.53	112.43
21	2	2010	CLA	CMD-C2D-C3D	-3.23	120.19	127.61
21	3	3008	CLA	OBD-CAD-C3D	-3.23	120.75	128.52
26	1	1502	LUT	C39-C29-C30	-3.23	118.40	122.92
21	A	1101	CLA	CMB-C2B-C3B	3.23	130.72	124.68
21	J	6015	CLA	C3D-C4D-ND	3.23	115.46	110.24
21	2	2011	CLA	C3D-C4D-ND	3.23	115.46	110.24
21	3	3015	CLA	O2A-CGA-CBA	3.23	124.40	114.03
21	B	1228	CLA	C1-O2A-CGA	3.23	124.91	116.44
21	2	2003	CLA	C1-C2-C3	-3.22	120.47	126.04
21	4	4014	CLA	CAA-C2A-C3A	3.22	121.59	112.78
21	2	2008	CLA	C4-C3-C5	3.22	120.69	115.27
21	2	2009	CLA	CMB-C2B-C3B	3.22	130.70	124.68
26	2	2502	LUT	C31-C30-C29	-3.21	122.72	127.31
23	A	9011	CL0	CGD-CBD-CAD	-3.21	100.33	110.73
21	1	1014	CLA	O2A-CGA-CBA	3.21	124.35	114.03
21	B	9010	CLA	CMC-C2C-C1C	3.21	129.93	125.04
21	J	6015	CLA	O2A-CGA-CBA	3.21	121.98	111.91
21	J	6014	CLA	C4-C3-C5	3.21	120.66	115.27
24	B	7101	DGD	O5D-C6D-C5D	-3.21	103.12	109.05
21	A	1107	CLA	C4D-C3D-CAD	3.20	111.87	108.10
21	3	3004	CLA	O2A-CGA-CBA	3.20	124.31	114.03
21	2	2006	CLA	C4-C3-C5	3.20	120.66	115.27
19	A	6017	BCR	C30-C25-C26	-3.20	118.11	122.61
19	A	6011	BCR	C34-C9-C10	-3.20	118.45	122.92
23	A	9011	CL0	C1-O2A-CGA	3.19	124.83	116.44
21	B	1240	CLA	C1-C2-C3	-3.19	120.52	126.04
21	3	3008	CLA	C4D-C3D-CAD	3.19	111.86	108.10
21	1	1001	CLA	CMD-C2D-C3D	-3.19	120.27	127.61
21	A	1116	CLA	CMC-C2C-C1C	3.19	129.90	125.04
21	A	1123	CLA	C1-C2-C3	-3.19	120.53	126.04
21	2	2008	CLA	C3C-C4C-NC	3.19	114.15	110.57
21	4	4010	CLA	C3C-C4C-NC	3.19	114.14	110.57
21	4	4014	CLA	CMB-C2B-C3B	3.19	130.64	124.68
21	B	1227	CLA	CAA-C2A-C3A	-3.19	104.05	112.78
21	J	1302	CLA	CMB-C2B-C3B	3.18	130.63	124.68
19	A	6002	BCR	C36-C18-C17	-3.18	118.47	122.92
21	1	1001	CLA	C4-C3-C5	3.18	120.62	115.27
21	2	2002	CLA	C6-C5-C3	-3.18	105.12	113.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	B	6009	BCR	C7-C8-C9	-3.17	121.44	126.23
21	4	4005	CLA	CMC-C2C-C1C	3.17	129.87	125.04
21	B	1240	CLA	C4-C3-C5	3.17	120.61	115.27
21	4	4005	CLA	CMD-C2D-C3D	-3.17	120.32	127.61
21	A	1101	CLA	O2D-CGD-O1D	-3.17	117.64	123.84
21	A	1105	CLA	C1-C2-C3	-3.17	120.56	126.04
21	B	1219	CLA	C4-C3-C5	3.17	120.60	115.27
19	A	6008	BCR	C35-C13-C12	3.17	123.06	118.08
21	B	1240	CLA	C3D-C4D-ND	3.16	115.36	110.24
21	A	1111	CLA	C1-C2-C3	-3.16	120.57	126.04
21	A	1125	CLA	C1-O2A-CGA	3.16	124.74	116.44
21	B	1214	CLA	CMB-C2B-C3B	3.16	130.59	124.68
19	A	6003	BCR	C37-C22-C21	-3.16	118.50	122.92
21	A	1135	CLA	C1-C2-C3	-3.16	120.58	126.04
21	4	4015	CLA	C3C-C4C-NC	3.15	114.11	110.57
21	4	4003	CLA	C3D-C4D-ND	3.15	115.34	110.24
21	1	1003	CLA	O2D-CGD-O1D	-3.15	117.67	123.84
21	3	3017	CLA	C4D-C3D-CAD	3.15	111.81	108.10
21	A	1132	CLA	C4-C3-C5	3.15	120.57	115.27
19	I	6020	BCR	C36-C18-C17	-3.15	118.51	122.92
21	3	3012	CLA	CAA-CBA-CGA	-3.15	104.16	112.51
21	1	1008	CLA	C3D-C4D-ND	3.14	115.32	110.24
21	3	3017	CLA	O2A-CGA-CBA	3.14	124.12	114.03
21	4	4005	CLA	C4D-CHA-C1A	3.14	125.07	121.25
21	1	1007	CLA	CAA-CBA-CGA	-3.14	104.08	113.25
21	J	6015	CLA	O2D-CGD-O1D	-3.14	117.70	123.84
21	4	4014	CLA	CMD-C2D-C3D	-3.14	120.39	127.61
21	4	4002	CLA	C3C-C4C-NC	3.13	114.09	110.57
21	2	2007	CLA	C6-C5-C3	-3.13	105.24	113.45
21	4	4012	CLA	C1-O2A-CGA	3.13	124.66	116.44
21	A	1143	CLA	O2A-CGA-CBA	3.13	124.08	114.03
21	4	4003	CLA	CAC-C3C-C4C	3.13	128.87	124.81
21	A	1125	CLA	C3C-C4C-NC	3.13	114.08	110.57
21	A	1126	CLA	CMB-C2B-C3B	3.13	130.53	124.68
21	3	3013	CLA	O2D-CGD-O1D	-3.13	117.72	123.84
19	A	6003	BCR	C35-C13-C12	3.13	123.00	118.08
21	B	1234	CLA	C1-C2-C3	-3.12	120.64	126.04
21	F	1301	CLA	O2A-CGA-CBA	3.12	124.06	114.03
26	4	4501	LUT	C20-C13-C14	-3.12	118.55	122.92
21	A	1134	CLA	O2A-CGA-CBA	3.12	124.56	112.23
21	A	1111	CLA	C1-O2A-CGA	3.12	124.63	116.44
21	3	3001	CLA	C3D-C4D-ND	3.12	115.28	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	4	4008	CLA	O2A-C1-C2	3.12	120.03	109.49
26	2	2502	LUT	C8-C7-C6	-3.12	118.45	127.20
21	1	1011	CLA	O2D-CGD-O1D	-3.12	117.75	123.84
19	L	6019	BCR	C34-C9-C10	-3.11	118.57	122.92
21	A	1137	CLA	CAA-CBA-CGA	-3.11	104.17	113.25
21	3	3001	CLA	O2D-CGD-O1D	-3.11	117.76	123.84
21	4	4009	CLA	C1-C2-C3	-3.11	121.72	126.75
21	4	4015	CLA	CMB-C2B-C3B	3.11	130.49	124.68
21	3	3005	CLA	O2A-CGA-CBA	3.11	124.01	114.03
21	B	1222	CLA	CAA-C2A-C3A	-3.10	104.28	112.78
21	B	1213	CLA	O2D-CGD-O1D	-3.10	117.77	123.84
21	A	1112	CLA	CMC-C2C-C1C	3.10	129.76	125.04
19	B	6006	BCR	C8-C9-C10	3.10	123.69	118.94
21	B	1213	CLA	CMC-C2C-C1C	3.10	129.75	125.04
21	1	1007	CLA	C4D-C3D-CAD	3.09	111.74	108.10
21	B	9010	CLA	CMB-C2B-C3B	3.09	130.47	124.68
19	L	6019	BCR	C28-C27-C26	-3.09	108.56	114.08
26	4	4501	LUT	O3-C3-C2	-3.09	103.66	109.80
21	3	3016	CLA	O2A-CGA-CBA	3.09	123.96	114.03
19	A	6007	BCR	C3-C4-C5	-3.09	108.56	114.08
21	4	4006	CLA	CMA-C3A-C4A	-3.09	103.47	111.77
20	A	7003	LHG	O8-C23-C24	3.09	121.59	111.91
21	1	1003	CLA	CAC-C3C-C4C	3.09	128.81	124.81
21	B	1227	CLA	O2A-CGA-CBA	3.09	121.59	111.91
21	A	1110	CLA	C4-C3-C5	3.09	120.46	115.27
21	A	1120	CLA	O2A-CGA-CBA	3.09	124.42	112.23
26	4	4501	LUT	C8-C9-C10	3.09	123.67	118.94
21	B	1210	CLA	C3C-C4C-NC	3.08	114.03	110.57
21	A	1101	CLA	C4-C3-C5	3.08	120.46	115.27
21	B	1229	CLA	CMB-C2B-C3B	3.08	130.45	124.68
21	A	1124	CLA	C1-C2-C3	-3.08	120.71	126.04
23	A	9011	CL0	CMC-C2C-C1C	3.08	129.73	125.04
21	F	1303	CLA	C1-C2-C3	-3.08	120.72	126.04
26	4	4502	LUT	C11-C12-C13	-3.08	117.77	126.42
21	B	1221	CLA	CMC-C2C-C1C	3.08	129.72	125.04
21	2	2002	CLA	CMB-C2B-C3B	3.07	130.43	124.68
21	2	2007	CLA	C1-C2-C3	-3.07	120.73	126.04
21	H	1000	CLA	O2A-CGA-CBA	3.07	124.38	112.23
19	F	6014	BCR	C30-C25-C26	3.07	126.94	122.61
21	B	1223	CLA	C3C-C4C-NC	3.07	114.01	110.57
19	A	6003	BCR	C15-C14-C13	-3.07	122.93	127.31
26	1	1502	LUT	C12-C13-C14	3.07	123.65	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1101	CLA	C1-C2-C3	-3.07	120.74	126.04
21	A	1124	CLA	CMB-C2B-C3B	3.07	130.42	124.68
21	1	1007	CLA	O2D-CGD-CBD	3.07	116.72	111.27
19	A	6007	BCR	C8-C9-C10	3.06	123.64	118.94
21	A	1105	CLA	CMC-C2C-C1C	3.06	129.71	125.04
21	A	9012	CLA	CHD-C1D-ND	-3.06	121.64	124.45
21	4	4002	CLA	C3D-C4D-ND	3.06	115.19	110.24
21	F	1302	CLA	O2A-CGA-CBA	3.06	124.33	112.23
21	2	2006	CLA	O2D-CGD-O1D	-3.06	117.86	123.84
21	3	3005	CLA	O2D-CGD-O1D	-3.06	117.86	123.84
21	3	3001	CLA	C4-C3-C5	3.06	120.42	115.27
21	3	3016	CLA	O2D-CGD-O1D	-3.05	117.87	123.84
21	A	1138	CLA	C1-C2-C3	-3.05	120.76	126.04
21	B	1206	CLA	CAC-C3C-C4C	3.05	128.77	124.81
19	I	6018	BCR	C33-C5-C6	-3.05	121.10	124.53
21	1	1001	CLA	CAA-C2A-C3A	-3.05	104.42	112.78
19	B	6011	BCR	C3-C4-C5	-3.05	108.63	114.08
21	B	9023	CLA	CMC-C2C-C1C	3.05	129.69	125.04
21	L	1501	CLA	O2A-CGA-CBA	3.05	124.29	112.23
21	4	4008	CLA	C1D-ND-C4D	-3.05	104.17	106.33
21	B	1227	CLA	O2D-CGD-O1D	-3.05	117.88	123.84
21	G	1002	CLA	O2A-CGA-CBA	3.05	124.27	112.23
19	L	6019	BCR	C15-C14-C13	-3.04	122.97	127.31
21	B	1201	CLA	O2A-CGA-CBA	3.04	124.26	112.23
19	A	6002	BCR	C3-C4-C5	-3.04	108.64	114.08
21	4	4011	CLA	C3D-C4D-ND	3.04	115.16	110.24
21	1	1006	CLA	C4D-C3D-CAD	3.04	111.68	108.10
21	B	1219	CLA	C1-C2-C3	-3.04	120.79	126.04
21	4	4011	CLA	O2D-CGD-O1D	-3.04	117.90	123.84
21	A	1113	CLA	O2A-CGA-CBA	3.04	124.24	112.23
21	A	1137	CLA	C1-C2-C3	-3.04	120.79	126.04
21	4	4012	CLA	C1-C2-C3	-3.04	120.79	126.04
21	B	1225	CLA	C4-C3-C5	3.04	120.38	115.27
19	L	6019	BCR	C38-C26-C25	-3.03	121.12	124.53
21	A	1107	CLA	C3C-C4C-NC	3.03	113.97	110.57
21	A	9013	CLA	C1-C2-C3	-3.03	120.80	126.04
21	B	1215	CLA	C4-C3-C5	3.03	120.37	115.27
21	1	1013	CLA	CMC-C2C-C1C	3.03	129.65	125.04
21	A	1130	CLA	O2A-CGA-CBA	3.03	124.20	112.23
21	4	4004	CLA	C4D-C3D-CAD	3.03	111.66	108.10
21	1	1014	CLA	C4D-C3D-CAD	3.02	111.66	108.10
21	A	1123	CLA	CMB-C2B-C3B	3.02	130.34	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	1	1502	LUT	O23-C23-C24	-3.02	103.70	110.53
21	B	1238	CLA	C1-C2-C3	-3.02	120.82	126.04
21	B	1239	CLA	C4-C3-C5	3.02	120.35	115.27
21	B	1236	CLA	C1-C2-C3	-3.02	120.82	126.04
21	3	3003	CLA	C3D-C4D-ND	3.02	115.12	110.24
19	B	6010	BCR	C3-C4-C5	-3.02	108.69	114.08
21	1	1002	CLA	CMD-C2D-C3D	-3.02	120.67	127.61
21	B	1216	CLA	C1-C2-C3	-3.02	120.83	126.04
20	A	7003	LHG	O7-C7-C8	3.02	118.00	111.50
19	A	6003	BCR	C28-C27-C26	-3.01	108.70	114.08
21	1	1011	CLA	CAC-C3C-C4C	3.01	128.72	124.81
19	F	6014	BCR	C37-C22-C21	-3.01	118.70	122.92
21	B	1231	CLA	O2A-CGA-CBA	3.01	124.13	112.23
21	A	9012	CLA	O2D-CGD-CBD	3.01	116.61	111.27
21	2	2005	CLA	C1-O2A-CGA	3.01	124.33	116.44
21	2	2006	CLA	C1-C2-C3	-3.01	120.84	126.04
26	2	2501	LUT	C18-C5-C6	-3.01	121.15	124.53
21	B	1227	CLA	C3D-C4D-ND	3.01	115.10	110.24
21	A	1102	CLA	CMB-C2B-C3B	3.01	130.30	124.68
20	1	1801	LHG	O8-C23-C24	3.01	121.34	111.91
21	A	1126	CLA	CMC-C2C-C1C	3.00	129.62	125.04
21	2	2014	CLA	O2A-CGA-CBA	3.00	123.68	114.03
21	A	1103	CLA	CMB-C2B-C3B	3.00	130.30	124.68
21	A	1118	CLA	O2A-CGA-CBA	3.00	124.10	112.23
21	A	1103	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
21	4	4008	CLA	CAA-CBA-CGA	3.00	122.03	113.25
21	2	2005	CLA	C4D-C3D-CAD	3.00	111.63	108.10
21	1	1010	CLA	C3C-C4C-NC	3.00	113.94	110.57
21	B	1209	CLA	O2A-CGA-CBA	3.00	124.08	112.23
21	A	1115	CLA	CMC-C2C-C1C	3.00	129.60	125.04
21	4	4006	CLA	C4-C3-C5	3.00	120.31	115.27
21	2	2012	CLA	C1-C2-C3	-3.00	120.86	126.04
21	B	1217	CLA	O2A-CGA-CBA	3.00	124.07	112.23
21	A	1112	CLA	O2A-CGA-CBA	3.00	124.07	112.23
21	4	4009	CLA	O1D-CGD-CBD	-3.00	118.36	124.48
21	1	1010	CLA	C4D-C3D-CAD	3.00	111.63	108.10
21	1	1006	CLA	O2D-CGD-O1D	-2.99	117.98	123.84
21	3	3010	CLA	C1-C2-C3	-2.99	120.86	126.04
21	3	3010	CLA	CMB-C2B-C3B	2.99	130.27	124.68
26	2	2502	LUT	C39-C29-C30	-2.99	118.73	122.92
21	A	1121	CLA	O2A-CGA-CBA	2.99	124.05	112.23
21	B	1203	CLA	C4-C3-C5	2.99	120.30	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	1	1014	CLA	C3D-C4D-ND	2.99	115.07	110.24
21	B	1201	CLA	CMC-C2C-C1C	2.99	129.59	125.04
26	1	1501	LUT	C28-C29-C30	2.99	123.53	118.94
21	A	1108	CLA	O2A-CGA-CBA	2.99	124.04	112.23
21	2	2001	CLA	C3A-C2A-C1A	-2.99	100.58	104.74
21	3	3008	CLA	C3D-C4D-ND	2.98	115.07	110.24
21	B	9022	CLA	C4-C3-C5	2.98	120.29	115.27
21	B	1207	CLA	C4-C3-C5	2.98	120.29	115.27
21	B	1225	CLA	C3D-C4D-ND	2.98	115.06	110.24
21	B	1215	CLA	C1-C2-C3	-2.98	120.89	126.04
21	B	1221	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
19	F	6016	BCR	C37-C22-C21	-2.98	118.75	122.92
21	1	1013	CLA	C4D-C3D-CAD	2.98	111.61	108.10
21	4	4003	CLA	O2A-CGA-CBA	2.98	121.26	111.91
21	1	1012	CLA	C3D-C4D-ND	2.98	115.06	110.24
21	B	1223	CLA	C1-C2-C3	-2.98	120.89	126.04
21	4	4015	CLA	O2A-CGA-CBA	2.98	124.00	112.23
21	B	1224	CLA	CMB-C2B-C3B	2.97	130.24	124.68
21	B	1202	CLA	CMB-C2B-C3B	2.97	130.24	124.68
21	2	2006	CLA	C3D-C4D-ND	2.97	115.05	110.24
21	G	1002	CLA	OBD-CAD-C3D	-2.97	121.36	128.52
19	B	6009	BCR	C15-C14-C13	-2.97	123.07	127.31
21	1	1013	CLA	C3C-C4C-NC	2.97	113.91	110.57
21	3	3009	CLA	C3C-C4C-NC	2.97	113.91	110.57
26	4	4502	LUT	C39-C29-C30	-2.97	118.76	122.92
21	A	1141	CLA	C3D-C4D-ND	2.97	115.05	110.24
21	1	1010	CLA	O2A-C1-C2	2.97	116.45	108.64
21	G	1001	CLA	OBD-CAD-C3D	-2.97	121.37	128.52
19	A	6017	BCR	C3-C4-C5	-2.97	108.78	114.08
21	B	9023	CLA	C4-C3-C5	2.97	120.27	115.27
26	4	4501	LUT	C30-C31-C32	2.97	132.48	123.22
21	4	4006	CLA	CED-O2D-CGD	2.97	122.65	115.94
26	4	4502	LUT	C12-C13-C14	2.96	123.49	118.94
21	1	1012	CLA	C4D-C3D-CAD	2.96	111.59	108.10
21	A	1107	CLA	CMB-C2B-C3B	2.96	130.22	124.68
21	4	4005	CLA	CHC-C1C-C2C	-2.96	118.53	126.72
21	1	1009	CLA	CAC-C3C-C4C	2.96	128.65	124.81
19	L	6020	BCR	C37-C22-C21	-2.96	118.78	122.92
21	A	1121	CLA	CMC-C2C-C1C	2.96	129.55	125.04
21	1	1009	CLA	O2A-C1-C2	2.96	116.41	108.64
21	B	9010	CLA	CMA-C3A-C2A	-2.96	101.89	113.83
21	A	1121	CLA	O2D-CGD-O1D	-2.96	118.05	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1130	CLA	C3D-C4D-ND	2.96	115.02	110.24
21	1	1011	CLA	C1-O2A-CGA	2.96	124.20	116.44
21	A	1123	CLA	O2D-CGD-O1D	-2.95	118.06	123.84
21	B	1218	CLA	C3D-C4D-ND	2.95	115.02	110.24
21	A	9013	CLA	CMC-C2C-C1C	2.95	129.54	125.04
21	B	1235	CLA	C1-C2-C3	-2.95	120.93	126.04
21	A	1103	CLA	CMC-C2C-C1C	2.95	129.54	125.04
21	B	1207	CLA	CMA-C3A-C4A	-2.95	103.84	111.77
21	1	1011	CLA	C4D-C3D-CAD	2.95	111.58	108.10
21	1	1014	CLA	CAC-C3C-C4C	2.95	128.64	124.81
21	4	4010	CLA	C4D-C3D-CAD	2.95	111.57	108.10
21	H	1000	CLA	CMB-C2B-C1B	2.95	132.99	128.46
21	1	1009	CLA	CHC-C1C-C2C	-2.95	118.57	126.72
21	A	1108	CLA	CMB-C2B-C3B	2.95	130.19	124.68
21	3	3006	CLA	C1-C2-C3	-2.95	120.95	126.04
19	A	6007	BCR	C37-C22-C21	-2.94	118.80	122.92
21	B	9010	CLA	C3D-C4D-ND	2.94	115.00	110.24
21	A	1102	CLA	CMC-C2C-C1C	2.94	129.52	125.04
21	B	9023	CLA	CMB-C2B-C3B	2.94	130.18	124.68
21	3	3008	CLA	CMB-C2B-C3B	2.94	130.18	124.68
26	1	1501	LUT	C18-C5-C6	-2.94	121.23	124.53
21	4	4007	CLA	C4D-C3D-CAD	2.94	111.56	108.10
26	4	4502	LUT	C18-C5-C6	-2.94	121.23	124.53
21	A	9013	CLA	CMA-C3A-C4A	-2.94	103.88	111.77
21	A	1107	CLA	CMD-C2D-C3D	-2.94	120.86	127.61
21	4	4004	CLA	C1-C2-C3	-2.94	120.97	126.04
21	F	1303	CLA	C3C-C4C-NC	2.94	113.86	110.57
26	2	2502	LUT	C22-C23-C24	2.93	115.08	111.74
21	1	1002	CLA	C3D-C4D-ND	2.93	114.98	110.24
21	1	1003	CLA	O2A-CGA-CBA	2.93	121.11	111.91
21	1	1011	CLA	C3D-C4D-ND	2.93	114.97	110.24
21	4	4012	CLA	CAA-C2A-C1A	-2.93	102.39	111.97
21	A	1125	CLA	CMC-C2C-C1C	2.93	129.49	125.04
21	B	1231	CLA	C3D-C4D-ND	2.92	114.97	110.24
21	J	6015	CLA	CMD-C2D-C3D	-2.92	120.89	127.61
21	4	4008	CLA	C3C-C4C-NC	2.92	113.85	110.57
21	2	2012	CLA	C4-C3-C5	2.92	120.19	115.27
21	3	3008	CLA	CMD-C2D-C3D	-2.92	120.89	127.61
21	A	1114	CLA	O2A-CGA-CBA	2.92	123.77	112.23
21	3	3017	CLA	C3D-C4D-ND	2.92	114.96	110.24
21	B	1239	CLA	O2D-CGD-O1D	-2.92	118.13	123.84
21	3	3008	CLA	C4-C3-C5	2.92	120.18	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	1	1008	CLA	CBC-CAC-C3C	-2.92	104.38	112.43
21	B	1222	CLA	C3D-C4D-ND	2.92	114.96	110.24
21	3	3013	CLA	CAC-C3C-C4C	2.92	128.59	124.81
21	A	1132	CLA	C3D-C4D-ND	2.91	114.95	110.24
21	A	1128	CLA	CMC-C2C-C1C	2.91	129.48	125.04
21	A	1111	CLA	CAC-C3C-C4C	2.91	128.59	124.81
19	B	6006	BCR	C2-C3-C4	-2.91	104.87	111.38
21	4	4008	CLA	CAC-C3C-C4C	2.91	128.59	124.81
21	B	1219	CLA	C3D-C4D-ND	2.91	114.95	110.24
21	L	1503	CLA	CMC-C2C-C1C	2.91	129.47	125.04
21	B	9010	CLA	C1-O2A-CGA	2.91	124.08	116.44
21	A	1132	CLA	CMC-C2C-C1C	2.91	129.47	125.04
21	2	2004	CLA	O1D-CGD-CBD	-2.91	119.09	124.51
19	A	6011	BCR	C36-C18-C17	-2.91	118.85	122.92
21	A	1131	CLA	C1-C2-C3	-2.91	121.01	126.04
19	B	6005	BCR	C1-C6-C7	2.91	124.01	115.78
26	4	4501	LUT	C19-C9-C10	-2.91	118.85	122.92
21	A	1129	CLA	CMC-C2C-C1C	2.91	129.47	125.04
19	L	6020	BCR	C38-C26-C25	-2.91	121.26	124.53
21	B	1213	CLA	CAC-C3C-C4C	2.91	128.58	124.81
21	3	3011	CLA	CMB-C2B-C3B	2.91	130.12	124.68
21	3	3009	CLA	CMD-C2D-C3D	-2.91	120.93	127.61
21	4	4008	CLA	CMD-C2D-C3D	-2.90	120.93	127.61
21	3	3013	CLA	C3D-C4D-ND	2.90	114.94	110.24
21	B	1215	CLA	CMC-C2C-C1C	2.90	129.46	125.04
21	A	1102	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
19	B	6006	BCR	C38-C26-C27	2.90	119.19	113.62
21	A	1136	CLA	C3D-C4D-ND	2.90	114.93	110.24
21	3	3015	CLA	C3D-C4D-ND	2.90	114.93	110.24
21	B	1221	CLA	C3C-C4C-NC	2.90	113.82	110.57
21	A	1103	CLA	C1-C2-C3	-2.90	121.03	126.04
21	2	2001	CLA	C2C-C3C-C4C	-2.90	103.74	107.21
21	4	4011	CLA	CMD-C2D-C3D	-2.89	120.96	127.61
26	2	2501	LUT	C31-C32-C33	-2.89	118.29	126.42
21	L	1501	CLA	CMC-C2C-C1C	2.89	129.45	125.04
21	3	3003	CLA	C4-C3-C5	2.89	120.14	115.27
21	3	3013	CLA	CMB-C2B-C3B	2.89	130.09	124.68
21	B	1208	CLA	C3D-C4D-ND	2.89	114.92	110.24
21	L	1502	CLA	C3D-C4D-ND	2.89	114.92	110.24
21	G	1002	CLA	O2D-CGD-O1D	-2.89	118.18	123.84
26	2	2502	LUT	C18-C5-C6	-2.89	121.28	124.53
21	A	1141	CLA	CAC-C3C-C4C	2.89	128.56	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	J	6015	CLA	CAC-C3C-C4C	2.89	128.56	124.81
21	B	1238	CLA	C3D-C4D-ND	2.89	114.91	110.24
21	B	1201	CLA	CMB-C2B-C3B	2.89	130.08	124.68
21	A	9012	CLA	CMC-C2C-C1C	2.88	129.43	125.04
19	L	6019	BCR	C38-C26-C27	2.88	119.15	113.62
21	A	1137	CLA	CMC-C2C-C1C	2.88	129.43	125.04
21	1	1003	CLA	C1-C2-C3	-2.88	121.06	126.04
21	1	1003	CLA	C4D-C3D-CAD	2.88	111.49	108.10
21	A	1127	CLA	CAC-C3C-C4C	2.88	128.54	124.81
21	4	4008	CLA	C1-O2A-CGA	2.88	123.99	116.44
26	1	1501	LUT	O3-C3-C2	-2.88	104.09	109.80
21	3	3008	CLA	C1-O2A-CGA	2.87	123.99	116.44
21	B	1204	CLA	C4-C3-C5	2.87	120.11	115.27
21	1	1012	CLA	CMD-C2D-C3D	-2.87	121.00	127.61
21	B	1212	CLA	O2A-CGA-CBA	2.87	123.58	112.23
21	2	2009	CLA	O1D-CGD-CBD	-2.87	118.61	124.48
21	A	1116	CLA	C4-C3-C5	2.87	120.10	115.27
21	B	1236	CLA	CMC-C2C-C1C	2.87	129.41	125.04
21	3	3011	CLA	C4D-C3D-CAD	2.87	111.48	108.10
21	J	6014	CLA	C3D-C4D-ND	2.87	114.88	110.24
19	G	2011	BCR	C33-C5-C4	2.87	119.13	113.62
21	B	1211	CLA	CMB-C2B-C3B	2.87	130.04	124.68
19	B	6009	BCR	C37-C22-C21	-2.87	118.91	122.92
21	A	9012	CLA	C1-C2-C3	-2.87	121.08	126.04
19	A	6002	BCR	C38-C26-C25	-2.86	121.31	124.53
21	2	2011	CLA	CAA-CBA-CGA	2.86	121.62	113.25
21	J	6015	CLA	C4D-C3D-CAD	2.86	111.47	108.10
21	B	1234	CLA	C3D-C4D-ND	2.86	114.87	110.24
19	F	6014	BCR	C40-C30-C39	2.86	117.32	108.53
21	B	1213	CLA	C3D-C4D-ND	2.86	114.87	110.24
21	4	4001	CLA	C3D-C4D-ND	2.86	114.87	110.24
19	A	6011	BCR	C31-C1-C2	2.86	120.35	108.91
21	B	1204	CLA	C3D-C4D-ND	2.86	114.86	110.24
21	2	2002	CLA	C3D-C4D-ND	2.86	114.86	110.24
21	3	3013	CLA	C5-C3-C4	2.86	120.92	114.60
21	1	1009	CLA	O2A-CGA-CBA	2.86	120.88	111.91
21	A	1120	CLA	CMC-C2C-C1C	2.86	129.39	125.04
19	A	6017	BCR	C30-C25-C24	2.86	123.86	115.78
21	F	1303	CLA	C4D-C3D-CAD	2.86	111.46	108.10
21	A	1119	CLA	C3D-C4D-ND	2.86	114.86	110.24
21	A	1135	CLA	C3D-C4D-ND	2.86	114.86	110.24
21	A	1138	CLA	CMC-C2C-C1C	2.86	129.39	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1229	CLA	C3D-C4D-ND	2.85	114.86	110.24
21	4	4014	CLA	C2A-C1A-CHA	-2.85	118.87	123.86
21	B	1216	CLA	C4-C3-C5	2.85	120.07	115.27
21	A	1104	CLA	C4-C3-C5	2.85	120.07	115.27
21	A	1123	CLA	C3C-C4C-NC	2.85	113.77	110.57
21	3	3009	CLA	CMC-C2C-C1C	2.85	129.38	125.04
21	A	1132	CLA	CAA-C2A-C3A	-2.85	104.97	112.78
21	A	1119	CLA	CMB-C2B-C3B	2.85	130.01	124.68
21	A	1142	CLA	CMC-C2C-C1C	2.85	129.38	125.04
21	B	9023	CLA	C3C-C4C-NC	2.85	113.77	110.57
19	L	6019	BCR	C23-C22-C21	2.85	123.31	118.94
21	A	1127	CLA	CMC-C2C-C1C	2.85	129.38	125.04
21	2	2005	CLA	C3C-C4C-NC	2.85	113.76	110.57
21	1	1002	CLA	CAC-C3C-C4C	2.85	128.50	124.81
21	1	1008	CLA	CAC-C3C-C4C	2.85	128.50	124.81
21	B	1220	CLA	CMC-C2C-C1C	2.85	129.37	125.04
21	A	1109	CLA	C4-C3-C5	2.85	120.06	115.27
21	1	1004	CLA	C3D-C4D-ND	2.85	114.84	110.24
21	B	1202	CLA	C4-C3-C5	2.84	120.05	115.27
21	B	1218	CLA	CMC-C2C-C1C	2.84	129.37	125.04
21	A	1139	CLA	C4D-C3D-CAD	2.84	111.44	108.10
19	I	6020	BCR	C38-C26-C27	2.84	119.07	113.62
19	A	6003	BCR	C33-C5-C6	-2.84	121.34	124.53
21	A	1133	CLA	OBD-CAD-C3D	-2.84	121.69	128.52
21	A	1127	CLA	C3D-C4D-ND	2.84	114.83	110.24
21	1	1010	CLA	C4-C3-C5	2.84	120.04	115.27
19	L	6020	BCR	C36-C18-C17	-2.83	118.95	122.92
21	B	1229	CLA	CMC-C2C-C1C	2.83	129.36	125.04
21	2	2012	CLA	CMD-C2D-C3D	-2.83	121.09	127.61
21	A	1138	CLA	CMB-C2B-C3B	2.83	129.98	124.68
21	1	1001	CLA	O2D-CGD-CBD	2.83	116.30	111.27
21	B	1205	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
21	B	1223	CLA	C4-C3-C5	2.83	120.03	115.27
21	B	1228	CLA	CMA-C3A-C4A	-2.83	104.16	111.77
21	2	2010	CLA	CMC-C2C-C1C	2.83	129.35	125.04
21	B	1237	CLA	C3D-C4D-ND	2.83	114.81	110.24
21	4	4004	CLA	C4-C3-C5	2.83	120.03	115.27
21	3	3011	CLA	CMD-C2D-C3D	-2.83	121.11	127.61
21	B	1209	CLA	CMC-C2C-C1C	2.83	129.34	125.04
21	A	1134	CLA	CMC-C2C-C1C	2.82	129.34	125.04
21	1	1011	CLA	CBC-CAC-C3C	-2.82	104.65	112.43
21	4	4008	CLA	CHA-C4D-ND	2.82	138.40	132.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	F	1302	CLA	CAC-C3C-C4C	2.82	128.47	124.81
21	A	1133	CLA	CMC-C2C-C1C	2.82	129.34	125.04
21	A	1138	CLA	C3D-C4D-ND	2.82	114.80	110.24
21	2	2010	CLA	C1-O2A-CGA	2.82	123.85	116.44
21	F	1302	CLA	C3D-C4D-ND	2.82	114.80	110.24
21	4	4005	CLA	O2D-CGD-O1D	-2.82	118.32	123.84
21	2	2004	CLA	C3C-C4C-NC	2.82	113.73	110.57
21	3	3001	CLA	C4D-C3D-CAD	2.82	111.42	108.10
23	A	9011	CL0	CMA-C3A-C2A	-2.82	102.46	113.83
21	A	1105	CLA	C3D-C4D-ND	2.82	114.80	110.24
21	3	3006	CLA	CMC-C2C-C1C	2.82	129.33	125.04
21	A	1104	CLA	C3D-C4D-ND	2.82	114.80	110.24
21	B	9022	CLA	CMA-C3A-C4A	-2.82	104.20	111.77
21	1	1009	CLA	C4D-C3D-CAD	2.82	111.42	108.10
21	A	1113	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
21	3	3012	CLA	CMB-C2B-C3B	2.82	129.95	124.68
21	4	4010	CLA	CMB-C2B-C3B	2.81	129.94	124.68
21	F	1302	CLA	C3C-C4C-NC	2.81	113.72	110.57
21	A	1140	CLA	C3D-C4D-ND	2.81	114.78	110.24
21	1	1006	CLA	CMD-C2D-C3D	-2.81	121.15	127.61
21	A	1108	CLA	C3D-C4D-ND	2.81	114.78	110.24
21	B	1211	CLA	C3D-C4D-ND	2.81	114.78	110.24
21	B	1225	CLA	CMC-C2C-C1C	2.81	129.32	125.04
21	2	2003	CLA	C4D-C3D-CAD	2.81	111.41	108.10
21	A	1114	CLA	CMC-C2C-C1C	2.81	129.32	125.04
21	B	1236	CLA	C4-C3-C5	2.81	120.00	115.27
21	A	1107	CLA	C3D-C4D-ND	2.81	114.78	110.24
21	A	1131	CLA	C3D-C4D-ND	2.81	114.78	110.24
21	A	1133	CLA	C3D-C4D-ND	2.81	114.78	110.24
21	1	1009	CLA	C4-C3-C5	2.81	119.99	115.27
19	B	6005	BCR	C38-C26-C27	2.81	119.01	113.62
21	A	1123	CLA	CMC-C2C-C1C	2.80	129.31	125.04
21	B	1221	CLA	C4-C3-C5	2.80	119.98	115.27
19	B	6005	BCR	C3-C4-C5	-2.80	109.07	114.08
21	B	1211	CLA	C4D-C3D-CAD	2.80	111.40	108.10
21	A	1117	CLA	C1-C2-C3	-2.80	121.20	126.04
21	3	3010	CLA	C3D-C4D-ND	2.80	114.77	110.24
21	A	1140	CLA	C1-O2A-CGA	2.80	123.79	116.44
21	A	1143	CLA	CMC-C2C-C1C	2.80	129.30	125.04
21	4	4015	CLA	CMD-C2D-C3D	-2.80	121.18	127.61
21	1	1007	CLA	C4-C3-C5	2.80	119.98	115.27
21	B	1208	CLA	CMC-C2C-C1C	2.80	129.30	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	1	1005	CLA	CMC-C2C-C1C	2.80	129.30	125.04
21	H	1000	CLA	C3D-C4D-ND	2.80	114.76	110.24
21	B	1227	CLA	C4D-C3D-CAD	2.79	111.39	108.10
20	A	7001	LHG	O8-C23-C24	2.79	120.68	111.91
21	4	4001	CLA	C1-C2-C3	-2.79	121.21	126.04
19	B	6005	BCR	C7-C6-C5	-2.79	114.69	121.46
21	1	1011	CLA	CMC-C2C-C1C	2.79	129.29	125.04
21	A	1104	CLA	CMC-C2C-C1C	2.79	129.29	125.04
21	2	2002	CLA	CMC-C2C-C1C	2.79	129.29	125.04
19	A	6011	BCR	C15-C14-C13	-2.79	123.33	127.31
21	A	1123	CLA	C4D-C3D-CAD	2.79	111.39	108.10
21	A	1110	CLA	C3D-C4D-ND	2.79	114.75	110.24
21	B	1203	CLA	CMC-C2C-C1C	2.79	129.29	125.04
21	L	1501	CLA	C3D-C4D-ND	2.79	114.75	110.24
21	B	9022	CLA	C1D-ND-C4D	-2.79	104.35	106.33
19	F	6014	BCR	C31-C1-C2	2.79	120.06	108.91
21	A	1127	CLA	C4-C3-C5	2.79	119.96	115.27
21	3	3014	CLA	CMB-C2B-C3B	2.79	129.89	124.68
23	A	9011	CL0	CAA-C2A-C3A	-2.79	105.15	112.78
21	B	1235	CLA	C3D-C4D-ND	2.79	114.74	110.24
21	3	3002	CLA	CMC-C2C-C1C	2.78	129.28	125.04
21	A	1124	CLA	CMC-C2C-C1C	2.78	129.28	125.04
19	A	6008	BCR	C35-C13-C14	-2.78	119.03	122.92
21	A	1134	CLA	C3D-C4D-ND	2.78	114.74	110.24
21	B	1220	CLA	C3D-C4D-ND	2.78	114.74	110.24
21	B	1214	CLA	C3D-C4D-ND	2.78	114.74	110.24
19	A	6003	BCR	C36-C18-C17	-2.78	119.03	122.92
21	4	4007	CLA	C3D-C4D-ND	2.78	114.73	110.24
21	B	1216	CLA	CMB-C2B-C3B	2.78	129.88	124.68
21	A	1141	CLA	CMC-C2C-C1C	2.78	129.27	125.04
21	B	1226	CLA	CMA-C3A-C4A	-2.78	104.31	111.77
21	A	1113	CLA	CMC-C2C-C1C	2.78	129.27	125.04
21	B	1231	CLA	CMC-C2C-C1C	2.78	129.27	125.04
21	B	1234	CLA	CMC-C2C-C1C	2.78	129.27	125.04
21	B	1236	CLA	C3D-C4D-ND	2.78	114.73	110.24
21	1	1008	CLA	C1-O2A-CGA	2.78	123.72	116.44
19	B	6006	BCR	C15-C14-C13	-2.77	123.35	127.31
19	B	6011	BCR	C1-C6-C5	-2.77	118.71	122.61
21	A	1137	CLA	C3D-C4D-ND	2.77	114.72	110.24
21	3	3003	CLA	CMC-C2C-C1C	2.77	129.26	125.04
21	B	1240	CLA	C4D-C3D-CAD	2.77	111.36	108.10
21	B	1227	CLA	CMC-C2C-C1C	2.77	129.26	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	3	3005	CLA	CMC-C2C-C1C	2.77	129.26	125.04
21	4	4012	CLA	C3D-C4D-ND	2.77	114.72	110.24
21	B	1240	CLA	C3C-C4C-NC	2.77	113.68	110.57
21	B	1235	CLA	CMC-C2C-C1C	2.77	129.25	125.04
21	2	2011	CLA	C1-C2-C3	-2.77	121.25	126.04
21	3	3014	CLA	CHD-C4C-C3C	-2.77	120.77	124.84
21	3	3004	CLA	CMC-C2C-C1C	2.77	129.25	125.04
21	2	2001	CLA	C3A-C4A-CHB	-2.77	120.52	123.91
21	B	1228	CLA	C4-C3-C5	2.77	119.15	115.98
21	4	4003	CLA	C1-O2A-CGA	2.77	123.70	116.44
21	A	1122	CLA	CMD-C2D-C3D	-2.76	121.26	127.61
21	B	1240	CLA	CAC-C3C-C4C	2.76	128.40	124.81
21	1	1008	CLA	CMC-C2C-C1C	2.76	129.25	125.04
21	A	1101	CLA	C3D-C4D-ND	2.76	114.70	110.24
21	J	6014	CLA	CMC-C2C-C1C	2.76	129.24	125.04
21	B	1214	CLA	C4D-C3D-CAD	2.76	111.35	108.10
21	B	1217	CLA	CMC-C2C-C1C	2.76	129.24	125.04
21	2	2014	CLA	CHC-C1C-C2C	-2.76	119.09	126.72
19	B	6010	BCR	C37-C22-C21	-2.76	119.06	122.92
21	A	1125	CLA	C1D-CHD-C4C	-2.76	120.11	126.06
21	A	1131	CLA	CMB-C2B-C3B	2.76	129.84	124.68
21	A	1124	CLA	C3D-C4D-ND	2.76	114.70	110.24
21	4	4006	CLA	CMB-C2B-C3B	2.76	129.83	124.68
21	1	1003	CLA	CMC-C2C-C1C	2.75	129.23	125.04
21	B	1228	CLA	C3D-C4D-ND	2.75	114.69	110.24
21	3	3003	CLA	C3C-C4C-NC	2.75	113.66	110.57
19	L	6020	BCR	C19-C18-C17	2.75	123.17	118.94
21	3	3006	CLA	C3D-C4D-ND	2.75	114.69	110.24
21	A	1128	CLA	O2D-CGD-O1D	-2.75	118.46	123.84
21	A	1130	CLA	CMC-C2C-C1C	2.75	129.23	125.04
21	3	3012	CLA	O2D-CGD-O1D	-2.75	118.46	123.84
19	A	6003	BCR	C38-C26-C27	2.75	118.90	113.62
21	J	1302	CLA	CAC-C3C-C4C	2.75	128.38	124.81
21	4	4007	CLA	O2D-CGD-O1D	-2.75	118.46	123.84
21	B	1203	CLA	C3D-C4D-ND	2.75	114.69	110.24
21	A	1141	CLA	C1-C2-C3	-2.75	121.29	126.04
21	4	4009	CLA	CMD-C2D-C3D	-2.75	121.29	127.61
21	B	1230	CLA	C3D-C4D-ND	2.75	114.68	110.24
27	4	4503	NEX	C40-C33-C34	-2.75	119.07	122.92
21	B	1235	CLA	C4-C3-C5	2.75	119.89	115.27
21	F	1301	CLA	C3D-C4D-ND	2.75	114.68	110.24
21	A	1115	CLA	C3D-C4D-ND	2.75	114.68	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1205	CLA	CMC-C2C-C1C	2.74	129.22	125.04
21	B	1238	CLA	CMC-C2C-C1C	2.74	129.22	125.04
21	B	9022	CLA	CGD-CBD-CAD	-2.74	101.84	110.73
21	B	1219	CLA	CMC-C2C-C1C	2.74	129.22	125.04
21	B	1218	CLA	O2D-CGD-O1D	-2.74	118.48	123.84
21	A	1112	CLA	C3D-C4D-ND	2.74	114.67	110.24
21	A	1139	CLA	C3D-C4D-ND	2.74	114.67	110.24
21	J	6015	CLA	C4-C3-C5	2.74	119.88	115.27
21	B	9022	CLA	C11-C12-C13	-2.74	107.06	115.92
21	B	1226	CLA	C4-C3-C5	2.74	119.88	115.27
26	4	4502	LUT	C32-C33-C34	2.74	123.14	118.94
21	4	4007	CLA	CMC-C2C-C1C	2.74	129.21	125.04
21	2	2014	CLA	CMA-C3A-C4A	-2.74	104.42	111.77
21	3	3003	CLA	CED-O2D-CGD	2.74	122.12	115.94
21	J	6014	CLA	C4D-C3D-CAD	2.73	111.32	108.10
21	B	1216	CLA	C3D-C4D-ND	2.73	114.66	110.24
21	A	1128	CLA	C3D-C4D-ND	2.73	114.66	110.24
21	A	1112	CLA	C4D-C3D-CAD	2.73	111.32	108.10
21	A	1133	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
21	A	1114	CLA	C3D-C4D-ND	2.73	114.66	110.24
19	B	6004	BCR	C2-C1-C6	2.73	114.68	110.48
21	B	1213	CLA	CMB-C2B-C3B	2.73	129.78	124.68
21	2	2008	CLA	CHA-C1A-NA	-2.73	120.15	126.40
21	2	2009	CLA	C3D-C4D-ND	2.73	114.65	110.24
21	A	1117	CLA	C4-C3-C5	2.73	119.86	115.27
21	B	1227	CLA	O1D-CGD-CBD	-2.73	118.90	124.48
21	2	2007	CLA	C1-O2A-CGA	2.73	123.60	116.44
21	A	1129	CLA	C3D-C4D-ND	2.73	114.65	110.24
21	A	1103	CLA	C4-C3-C5	2.73	119.86	115.27
21	2	2013	CLA	O2D-CGD-O1D	-2.73	118.51	123.84
21	B	1238	CLA	CMB-C2B-C3B	2.73	129.78	124.68
21	A	1142	CLA	C3D-C4D-ND	2.73	114.65	110.24
21	B	1212	CLA	C3D-C4D-ND	2.73	114.65	110.24
21	A	1125	CLA	CMB-C2B-C3B	2.72	129.78	124.68
21	J	1302	CLA	CMC-C2C-C1C	2.72	129.19	125.04
21	B	9022	CLA	C3C-C4C-NC	2.72	113.62	110.57
21	B	1210	CLA	C4D-C3D-CAD	2.72	111.30	108.10
21	3	3015	CLA	CMC-C2C-C1C	2.72	129.18	125.04
21	A	1120	CLA	C3D-C4D-ND	2.72	114.64	110.24
21	B	1222	CLA	C1-C2-C3	-2.72	121.34	126.04
21	A	1143	CLA	C3D-C4D-ND	2.72	114.64	110.24
21	A	1109	CLA	C3D-C4D-ND	2.72	114.63	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	9022	CLA	C1-O2A-CGA	2.72	123.57	116.44
21	F	1302	CLA	CMC-C2C-C1C	2.72	129.17	125.04
21	G	1001	CLA	CMC-C2C-C1C	2.71	129.17	125.04
21	A	1106	CLA	O2D-CGD-O1D	-2.71	118.54	123.84
21	A	1108	CLA	CMC-C2C-C1C	2.71	129.16	125.04
21	A	1121	CLA	C3D-C4D-ND	2.71	114.62	110.24
21	B	1210	CLA	C3D-C4D-ND	2.71	114.62	110.24
21	1	1005	CLA	C3D-C4D-ND	2.71	114.62	110.24
21	3	3014	CLA	C3D-C4D-ND	2.71	114.62	110.24
26	2	2501	LUT	C20-C13-C14	-2.71	119.13	122.92
19	B	6009	BCR	C19-C18-C17	2.71	123.10	118.94
21	4	4006	CLA	CHD-C4C-C3C	-2.71	120.86	124.84
21	4	4009	CLA	C3D-C4D-ND	2.71	114.62	110.24
21	L	1503	CLA	C3D-C4D-ND	2.71	114.61	110.24
21	4	4010	CLA	C3D-C4D-ND	2.71	114.61	110.24
19	I	6018	BCR	C38-C26-C27	2.71	118.81	113.62
21	4	4010	CLA	C1-O2A-CGA	2.70	123.54	116.44
21	A	1125	CLA	CHD-C4C-C3C	-2.70	120.86	124.84
26	1	1501	LUT	C32-C33-C34	2.70	123.09	118.94
21	3	3002	CLA	C3D-C4D-ND	2.70	114.61	110.24
19	B	6006	BCR	C23-C24-C25	-2.70	119.61	127.20
21	3	3005	CLA	C3D-C4D-ND	2.70	114.61	110.24
21	F	1303	CLA	CMB-C2B-C3B	2.70	129.73	124.68
21	B	1208	CLA	C4-C3-C5	2.70	119.81	115.27
21	B	1206	CLA	C3D-C4D-ND	2.70	114.61	110.24
19	F	6014	BCR	C28-C27-C26	-2.70	109.25	114.08
21	1	1013	CLA	C3D-C4D-ND	2.70	114.61	110.24
21	B	1209	CLA	O2D-CGD-O1D	-2.70	118.56	123.84
21	2	2007	CLA	C3D-C4D-ND	2.70	114.61	110.24
21	A	1119	CLA	CMC-C2C-C1C	2.70	129.15	125.04
21	1	1005	CLA	C4D-C3D-CAD	2.70	111.28	108.10
21	A	1140	CLA	CMC-C2C-C1C	2.70	129.15	125.04
19	A	6011	BCR	C37-C22-C21	-2.70	119.14	122.92
21	3	3016	CLA	CMC-C2C-C1C	2.70	129.15	125.04
21	1	1003	CLA	CMA-C3A-C4A	-2.70	104.52	111.77
21	B	1217	CLA	C3D-C4D-ND	2.70	114.60	110.24
21	1	1007	CLA	CMD-C2D-C3D	-2.70	121.41	127.61
24	B	7101	DGD	CDB-CCB-CBB	-2.70	100.74	114.42
21	3	3017	CLA	CMC-C2C-C1C	2.70	129.15	125.04
21	1	1012	CLA	OBD-CAD-C3D	-2.70	122.03	128.52
21	3	3012	CLA	CED-O2D-CGD	2.70	122.03	115.94
21	4	4009	CLA	C4D-C3D-CAD	2.69	111.27	108.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1116	CLA	C3D-C4D-ND	2.69	114.59	110.24
21	A	1121	CLA	C3C-C4C-NC	2.69	113.59	110.57
21	B	9022	CLA	OBD-CAD-C3D	-2.69	122.04	128.52
21	B	1209	CLA	C3D-C4D-ND	2.69	114.59	110.24
21	2	2002	CLA	C4-C3-C5	2.69	119.80	115.27
21	A	1122	CLA	CMC-C2C-C1C	2.69	129.14	125.04
21	3	3004	CLA	C4D-C3D-CAD	2.69	111.27	108.10
21	2	2013	CLA	OBD-CAD-C3D	-2.69	122.05	128.52
19	I	6020	BCR	C33-C5-C4	2.69	118.78	113.62
21	A	1122	CLA	C3D-C4D-ND	2.69	114.59	110.24
21	4	4011	CLA	CAA-CBA-CGA	-2.69	105.40	113.25
21	1	1003	CLA	C3D-C4D-ND	2.69	114.59	110.24
27	4	4503	NEX	C19-C9-C10	-2.69	119.16	122.92
19	B	6004	BCR	C37-C22-C21	-2.69	119.16	122.92
21	B	1202	CLA	C3D-C4D-ND	2.69	114.58	110.24
21	4	4010	CLA	O2D-CGD-O1D	-2.69	118.59	123.84
21	3	3012	CLA	CBC-CAC-C3C	-2.68	105.03	112.43
21	A	1127	CLA	C3C-C4C-NC	2.68	113.58	110.57
21	3	3012	CLA	C3D-C4D-ND	2.68	114.58	110.24
25	J	5001	LMG	O8-C28-C29	2.68	120.33	111.91
21	B	1205	CLA	C3D-C4D-ND	2.68	114.58	110.24
21	2	2014	CLA	CHB-C4A-NA	2.68	128.22	124.51
21	B	1225	CLA	C1-C2-C3	-2.68	121.40	126.04
21	2	2011	CLA	C1-O2A-CGA	2.68	123.48	116.44
19	J	6012	BCR	C30-C25-C24	2.68	123.36	115.78
21	A	1104	CLA	C3C-C4C-NC	2.68	113.58	110.57
21	A	1140	CLA	C4D-C3D-CAD	2.68	111.25	108.10
21	B	1205	CLA	C4D-C3D-CAD	2.68	111.25	108.10
21	B	1239	CLA	C3D-C4D-ND	2.68	114.57	110.24
21	B	1224	CLA	C4-C3-C5	2.68	119.78	115.27
21	B	1208	CLA	C4D-C3D-CAD	2.68	111.25	108.10
21	4	4015	CLA	OBD-CAD-C3D	-2.68	122.07	128.52
21	4	4002	CLA	CMB-C2B-C3B	2.68	129.69	124.68
21	A	1103	CLA	C3D-C4D-ND	2.68	114.57	110.24
21	B	1224	CLA	CAC-C3C-C4C	2.68	128.28	124.81
19	J	6013	BCR	C38-C26-C27	2.68	118.76	113.62
21	1	1013	CLA	OBD-CAD-C3D	-2.67	122.08	128.52
21	A	1124	CLA	C4-C3-C5	2.67	119.77	115.27
21	B	1215	CLA	C3D-C4D-ND	2.67	114.56	110.24
21	B	1203	CLA	C3C-C4C-NC	2.67	113.57	110.57
21	B	1222	CLA	CMC-C2C-C1C	2.67	129.11	125.04
21	2	2006	CLA	CMD-C2D-C3D	-2.67	121.47	127.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	G	1001	CLA	C3C-C4C-NC	2.67	113.57	110.57
21	A	1132	CLA	CMB-C2B-C3B	2.67	129.68	124.68
21	3	3006	CLA	CAC-C3C-C4C	2.67	128.28	124.81
21	2	2002	CLA	CAC-C3C-C2C	-2.67	122.96	127.53
21	F	1303	CLA	C3D-C4D-ND	2.67	114.56	110.24
21	2	2005	CLA	C1-C2-C3	-2.67	121.42	126.04
21	1	1009	CLA	C3C-C4C-NC	2.67	113.57	110.57
21	B	1237	CLA	C4D-C3D-CAD	2.67	111.24	108.10
21	B	1236	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
21	4	4004	CLA	O1D-CGD-CBD	-2.67	119.02	124.48
19	J	6012	BCR	C28-C27-C26	-2.67	109.31	114.08
21	A	1133	CLA	C4D-C3D-CAD	2.67	111.24	108.10
21	4	4014	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
21	A	1118	CLA	C4D-C3D-CAD	2.66	111.24	108.10
21	J	6015	CLA	CHC-C1C-C2C	-2.66	119.36	126.72
21	A	1126	CLA	C3C-C4C-NC	2.66	113.56	110.57
21	B	1207	CLA	C3D-C4D-ND	2.66	114.54	110.24
21	A	1116	CLA	C3C-C4C-NC	2.66	113.56	110.57
21	3	3009	CLA	C3D-C4D-ND	2.66	114.54	110.24
21	L	1502	CLA	O2D-CGD-O1D	-2.66	118.64	123.84
21	1	1011	CLA	CMD-C2D-C3D	-2.66	121.50	127.61
21	A	1117	CLA	CMC-C2C-C1C	2.66	129.09	125.04
21	B	1202	CLA	O2D-CGD-O1D	-2.66	118.64	123.84
21	B	9010	CLA	O2D-CGD-O1D	-2.66	118.64	123.84
21	A	1117	CLA	C3D-C4D-ND	2.66	114.53	110.24
21	A	1113	CLA	C3C-C4C-NC	2.65	113.55	110.57
21	A	1109	CLA	C1-O2A-CGA	2.65	123.41	116.44
21	B	9023	CLA	CAC-C3C-C4C	2.65	128.25	124.81
21	B	1218	CLA	C4-C3-C5	2.65	119.73	115.27
21	2	2007	CLA	CAC-C3C-C4C	2.65	128.25	124.81
21	B	1212	CLA	CMC-C2C-C1C	2.65	129.08	125.04
21	H	1000	CLA	CAC-C3C-C4C	2.65	128.25	124.81
21	2	2002	CLA	CHC-C1C-C2C	-2.65	119.39	126.72
21	3	3004	CLA	CMD-C2D-C3D	-2.65	121.52	127.61
21	G	1001	CLA	C4-C3-C5	2.65	119.73	115.27
21	A	1137	CLA	O2D-CGD-O1D	-2.65	118.66	123.84
21	B	1230	CLA	O2D-CGD-O1D	-2.65	118.66	123.84
21	4	4007	CLA	CMD-C2D-C3D	-2.65	121.52	127.61
21	4	4014	CLA	C4D-C3D-CAD	2.65	111.22	108.10
21	B	1214	CLA	C3C-C4C-NC	2.65	113.54	110.57
21	4	4013	CLA	C3D-C4D-ND	2.65	114.52	110.24
21	3	3013	CLA	CHC-C1C-C2C	-2.64	119.41	126.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1113	CLA	C3D-C4D-ND	2.64	114.52	110.24
21	1	1010	CLA	C3D-C4D-ND	2.64	114.52	110.24
21	A	1119	CLA	C4-C3-C5	2.64	119.72	115.27
21	B	1238	CLA	C4-C3-C5	2.64	119.72	115.27
19	B	6011	BCR	C1-C6-C7	2.64	123.25	115.78
21	A	1111	CLA	CMB-C2B-C3B	2.64	129.62	124.68
21	1	1012	CLA	C5-C3-C4	2.64	120.44	114.60
21	2	2012	CLA	C4D-C3D-CAD	2.64	111.21	108.10
21	2	2011	CLA	CMD-C2D-C3D	-2.64	121.54	127.61
21	A	1139	CLA	CMC-C2C-C1C	2.64	129.06	125.04
21	B	1207	CLA	CMB-C2B-C3B	2.64	129.62	124.68
21	1	1014	CLA	C3C-C4C-NC	2.64	113.53	110.57
21	A	9013	CLA	C1-O2A-CGA	2.64	123.36	116.44
21	J	1302	CLA	C3D-C4D-ND	2.64	114.50	110.24
21	B	9022	CLA	CAA-C2A-C3A	-2.64	105.56	112.78
21	A	1103	CLA	CAC-C3C-C4C	2.64	128.23	124.81
21	1	1001	CLA	CAC-C3C-C4C	2.64	128.23	124.81
21	B	1206	CLA	CMC-C2C-C1C	2.64	129.05	125.04
26	4	4502	LUT	O3-C3-C2	-2.64	104.57	109.80
19	B	6010	BCR	C34-C9-C10	-2.63	119.23	122.92
21	A	1118	CLA	CMD-C2D-C3D	-2.63	121.55	127.61
21	B	1201	CLA	C3D-C4D-ND	2.63	114.50	110.24
21	2	2006	CLA	CMB-C2B-C3B	2.63	129.60	124.68
21	3	3004	CLA	C3D-C4D-ND	2.63	114.49	110.24
26	4	4501	LUT	C28-C29-C30	2.63	122.98	118.94
21	3	3005	CLA	C3C-C4C-NC	2.63	113.52	110.57
21	F	1301	CLA	CMC-C2C-C1C	2.63	129.04	125.04
21	A	1122	CLA	C4D-C3D-CAD	2.63	111.19	108.10
21	4	4012	CLA	CMB-C2B-C3B	2.63	129.60	124.68
21	B	1217	CLA	CMB-C2B-C3B	2.63	129.59	124.68
21	B	1206	CLA	C4-C3-C5	2.63	119.69	115.27
21	G	1002	CLA	C3D-C4D-ND	2.63	114.49	110.24
21	A	1135	CLA	C4D-C3D-CAD	2.63	111.19	108.10
21	B	1211	CLA	O2D-CGD-O1D	-2.63	118.70	123.84
21	3	3005	CLA	C4D-C3D-CAD	2.63	111.19	108.10
21	A	1118	CLA	O2D-CGD-O1D	-2.62	118.71	123.84
21	B	1234	CLA	CMB-C2B-C3B	2.62	129.59	124.68
21	B	1227	CLA	C3C-C4C-NC	2.62	113.51	110.57
21	1	1008	CLA	C3C-C4C-NC	2.62	113.51	110.57
21	1	1012	CLA	CBC-CAC-C3C	-2.62	105.21	112.43
21	1	1005	CLA	C1-C2-C3	-2.62	121.51	126.04
21	B	1209	CLA	C4D-C3D-CAD	2.62	111.18	108.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	2	2014	CLA	C4D-C3D-CAD	2.62	111.18	108.10
21	4	4002	CLA	C4-C3-C5	2.62	119.68	115.27
21	B	1209	CLA	C3C-C4C-NC	2.62	113.51	110.57
21	A	1102	CLA	C3C-C4C-NC	2.62	113.51	110.57
19	J	6012	BCR	C3-C4-C5	-2.62	109.40	114.08
21	B	1216	CLA	CAA-C2A-C3A	-2.62	105.61	112.78
21	4	4006	CLA	CMD-C2D-C3D	-2.62	121.59	127.61
21	G	1001	CLA	C3D-C4D-ND	2.62	114.47	110.24
21	B	1211	CLA	CMD-C2D-C3D	-2.62	121.60	127.61
21	B	1205	CLA	C1-C2-C3	-2.61	121.52	126.04
21	B	1224	CLA	C3D-C4D-ND	2.61	114.47	110.24
21	B	9023	CLA	CAA-C2A-C3A	-2.61	105.62	112.78
21	A	1122	CLA	C4-C3-C5	2.61	119.67	115.27
21	A	1143	CLA	O2D-CGD-O1D	-2.61	118.73	123.84
21	J	6014	CLA	C3C-C4C-NC	2.61	113.50	110.57
21	B	1237	CLA	CMC-C2C-C1C	2.61	129.02	125.04
19	F	6014	BCR	C19-C18-C17	2.61	122.95	118.94
19	I	6020	BCR	C15-C14-C13	-2.61	123.58	127.31
21	3	3016	CLA	C3C-C4C-NC	2.61	113.50	110.57
21	2	2010	CLA	C4D-C3D-CAD	2.61	111.17	108.10
21	1	1002	CLA	CED-O2D-CGD	2.61	121.84	115.94
21	2	2008	CLA	CHD-C4C-C3C	-2.61	121.01	124.84
21	3	3013	CLA	C4D-C3D-CAD	2.61	111.17	108.10
21	2	2003	CLA	CHC-C1C-C2C	-2.61	119.51	126.72
21	A	9012	CLA	C4C-C3C-C2C	-2.61	103.10	106.90
21	B	1214	CLA	C4-C3-C5	2.61	119.66	115.27
21	1	1003	CLA	CMB-C2B-C3B	2.61	129.55	124.68
21	1	1012	CLA	CMB-C2B-C3B	2.61	129.55	124.68
21	B	1222	CLA	C4-C3-C5	2.60	119.65	115.27
21	B	1219	CLA	C4D-C3D-CAD	2.60	111.17	108.10
21	4	4004	CLA	C3C-C4C-NC	2.60	113.49	110.57
21	A	1109	CLA	C1-C2-C3	-2.60	121.54	126.04
21	B	1204	CLA	O2D-CGD-O1D	-2.60	118.75	123.84
21	B	1225	CLA	C4D-C3D-CAD	2.60	111.16	108.10
21	A	1118	CLA	C3D-C4D-ND	2.60	114.45	110.24
21	A	1134	CLA	O2D-CGD-O1D	-2.60	118.75	123.84
21	B	1201	CLA	O2D-CGD-O1D	-2.60	118.75	123.84
21	B	9010	CLA	C4-C3-C5	2.60	119.65	115.27
21	A	1116	CLA	CMB-C2B-C3B	2.60	129.54	124.68
21	B	1229	CLA	C3C-C4C-NC	2.60	113.49	110.57
21	L	1502	CLA	CMC-C2C-C1C	2.60	129.00	125.04
21	A	1126	CLA	C6-C5-C3	-2.60	106.64	113.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	A	7001	LHG	C5-O7-C7	-2.60	111.39	117.79
21	A	1135	CLA	OBD-CAD-C3D	-2.60	122.26	128.52
19	F	6016	BCR	C7-C6-C5	-2.60	115.17	121.46
21	B	1239	CLA	CMC-C2C-C1C	2.60	129.00	125.04
26	1	1501	LUT	C38-C25-C24	-2.60	118.00	123.56
21	A	1105	CLA	C3C-C4C-NC	2.60	113.48	110.57
21	A	1110	CLA	CMB-C2B-C3B	2.59	129.53	124.68
21	B	1208	CLA	C3C-C4C-NC	2.59	113.48	110.57
21	A	1127	CLA	CMB-C2B-C3B	2.59	129.53	124.68
21	B	1221	CLA	CAC-C3C-C4C	2.59	128.17	124.81
21	B	1234	CLA	CAC-C3C-C4C	2.59	128.17	124.81
21	2	2011	CLA	CHC-C1C-C2C	-2.59	119.56	126.72
21	F	1303	CLA	CMC-C2C-C1C	2.59	128.98	125.04
21	A	1101	CLA	CAC-C3C-C4C	2.59	128.17	124.81
21	B	1207	CLA	C4D-C3D-CAD	2.59	111.15	108.10
21	4	4011	CLA	C4D-C3D-CAD	2.59	111.15	108.10
21	H	1000	CLA	O2D-CGD-O1D	-2.59	118.78	123.84
21	J	6015	CLA	CMB-C2B-C3B	2.59	129.52	124.68
21	1	1006	CLA	C3D-C4D-ND	2.59	114.42	110.24
21	4	4004	CLA	C1-O2A-CGA	2.59	123.23	116.44
26	1	1502	LUT	C1-C6-C7	2.59	123.09	115.78
21	4	4003	CLA	C4D-C3D-CAD	2.59	111.14	108.10
21	B	9022	CLA	CHA-C4D-ND	2.59	137.91	132.50
21	B	1238	CLA	O2D-CGD-O1D	-2.59	118.78	123.84
21	L	1503	CLA	O2D-CGD-O1D	-2.58	118.78	123.84
21	A	1112	CLA	CMB-C2B-C3B	2.58	129.51	124.68
21	L	1503	CLA	CAC-C3C-C4C	2.58	128.16	124.81
21	3	3009	CLA	O2A-CGA-CBA	2.58	122.44	112.23
21	4	4010	CLA	CMD-C2D-C3D	-2.58	121.67	127.61
21	B	1212	CLA	O2D-CGD-O1D	-2.58	118.79	123.84
21	3	3016	CLA	CMB-C2B-C3B	2.58	129.51	124.68
21	B	1216	CLA	CMC-C2C-C1C	2.58	128.97	125.04
21	3	3005	CLA	CMB-C2B-C3B	2.58	129.51	124.68
21	B	1205	CLA	CAC-C3C-C4C	2.58	128.16	124.81
21	A	1130	CLA	O2D-CGD-O1D	-2.58	118.79	123.84
21	A	1126	CLA	CAC-C3C-C4C	2.58	128.16	124.81
21	3	3002	CLA	C3C-C4C-NC	2.58	113.46	110.57
21	B	1230	CLA	C4D-C3D-CAD	2.58	111.13	108.10
19	B	6005	BCR	C35-C13-C14	-2.58	119.31	122.92
21	B	1226	CLA	CHC-C1C-C2C	-2.58	119.60	126.72
19	A	6017	BCR	C33-C5-C4	2.58	118.56	113.62
19	B	6006	BCR	C36-C18-C17	-2.57	119.32	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	2	2501	LUT	C17-C1-C6	-2.57	106.12	110.30
21	3	3003	CLA	CMB-C2B-C3B	2.57	129.49	124.68
21	3	3002	CLA	C4-C3-C5	2.57	119.60	115.27
21	1	1007	CLA	CAC-C3C-C4C	2.57	128.15	124.81
21	A	1116	CLA	O2D-CGD-O1D	-2.57	118.81	123.84
21	A	1115	CLA	C3C-C4C-NC	2.57	113.45	110.57
21	A	1141	CLA	C3C-C4C-NC	2.57	113.45	110.57
19	L	6020	BCR	C38-C26-C27	2.57	118.55	113.62
20	1	1801	LHG	C6-C5-C4	-2.57	105.71	111.79
21	L	1501	CLA	C4D-C3D-CAD	2.57	111.12	108.10
21	A	1141	CLA	O2D-CGD-O1D	-2.57	118.82	123.84
21	A	1142	CLA	CAC-C3C-C4C	2.57	128.14	124.81
21	A	1135	CLA	O2D-CGD-O1D	-2.57	118.82	123.84
21	A	1106	CLA	C3D-C4D-ND	2.57	114.39	110.24
21	4	4001	CLA	CAC-C3C-C4C	2.57	128.14	124.81
21	2	2014	CLA	CHA-C4D-ND	2.57	137.87	132.50
21	B	1211	CLA	C4-C3-C5	2.57	119.59	115.27
21	A	1117	CLA	O2D-CGD-O1D	-2.57	118.82	123.84
19	A	6008	BCR	C34-C9-C10	-2.56	119.33	122.92
21	H	1000	CLA	CMC-C2C-C1C	2.56	128.94	125.04
21	A	1138	CLA	C4-C3-C5	2.56	119.58	115.27
21	A	1134	CLA	C3C-C4C-NC	2.56	113.44	110.57
21	B	1229	CLA	C4-C3-C5	2.56	119.58	115.27
21	B	1235	CLA	C4D-C3D-CAD	2.56	111.11	108.10
21	B	1209	CLA	CAC-C3C-C4C	2.56	128.13	124.81
21	B	1207	CLA	CMC-C2C-C1C	2.56	128.94	125.04
21	A	1111	CLA	C3D-C4D-ND	2.56	114.38	110.24
21	A	1143	CLA	C3C-C4C-NC	2.56	113.44	110.57
21	B	1204	CLA	CMC-C2C-C1C	2.56	128.94	125.04
23	A	9011	CL0	C3D-C4D-ND	2.56	114.38	110.24
21	1	1003	CLA	C1-O2A-CGA	2.56	123.16	116.44
21	A	1123	CLA	C3D-C4D-ND	2.56	114.38	110.24
21	1	1013	CLA	O2D-CGD-O1D	-2.56	118.84	123.84
21	G	1002	CLA	C3C-C4C-NC	2.56	113.44	110.57
21	B	1238	CLA	C4D-C3D-CAD	2.56	111.11	108.10
21	A	1107	CLA	CMC-C2C-C1C	2.56	128.93	125.04
21	B	1224	CLA	C3C-C4C-NC	2.56	113.44	110.57
21	2	2013	CLA	C4D-C3D-CAD	2.56	111.11	108.10
21	A	1111	CLA	O2D-CGD-O1D	-2.56	118.84	123.84
21	B	1212	CLA	CMB-C2B-C3B	2.56	129.46	124.68
21	B	1229	CLA	O2D-CGD-O1D	-2.55	118.84	123.84
21	B	1230	CLA	CAA-CBA-CGA	-2.55	105.79	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1238	CLA	C1-O2A-CGA	2.55	123.14	116.44
21	A	1112	CLA	CAC-C3C-C4C	2.55	128.12	124.81
21	A	1104	CLA	C4D-C3D-CAD	2.55	111.10	108.10
21	B	1234	CLA	O2D-CGD-O1D	-2.55	118.85	123.84
21	4	4002	CLA	O2D-CGD-O1D	-2.55	118.85	123.84
19	A	6008	BCR	C23-C22-C21	2.55	122.86	118.94
21	B	1221	CLA	C4D-C3D-CAD	2.55	111.10	108.10
21	A	1118	CLA	CAC-C3C-C4C	2.55	128.12	124.81
21	B	1214	CLA	CAC-C3C-C4C	2.55	128.12	124.81
21	B	1204	CLA	C4D-C3D-CAD	2.55	111.10	108.10
21	4	4001	CLA	CMD-C2D-C3D	-2.55	121.75	127.61
21	A	1112	CLA	CMD-C2D-C3D	-2.55	121.75	127.61
21	G	1002	CLA	CMD-C2D-C3D	-2.55	121.76	127.61
21	B	1203	CLA	CMB-C2B-C3B	2.55	129.44	124.68
21	A	1112	CLA	O2D-CGD-O1D	-2.54	118.86	123.84
21	B	1238	CLA	CMD-C2D-C3D	-2.54	121.76	127.61
23	A	9011	CL0	CHA-C1A-NA	-2.54	120.57	126.40
21	A	1123	CLA	C4-C3-C5	2.54	119.55	115.27
21	4	4001	CLA	CHC-C1C-NC	-2.54	120.34	124.20
27	4	4503	NEX	C17-C1-C6	-2.54	108.20	110.47
21	4	4015	CLA	CMC-C2C-C1C	2.54	128.91	125.04
21	2	2009	CLA	CHA-C1A-NA	-2.54	120.58	126.40
21	2	2012	CLA	CMB-C2B-C3B	2.54	129.43	124.68
21	B	1224	CLA	O1D-CGD-CBD	-2.54	119.28	124.48
21	A	1129	CLA	CMD-C2D-C3D	-2.54	121.77	127.61
21	A	1138	CLA	CMD-C2D-C3D	-2.54	121.77	127.61
21	A	1107	CLA	C1-C2-C3	-2.54	121.65	126.04
21	F	1301	CLA	C4D-C3D-CAD	2.54	111.09	108.10
21	B	1235	CLA	O2D-CGD-O1D	-2.54	118.87	123.84
21	A	1134	CLA	CAC-C3C-C4C	2.54	128.10	124.81
21	B	1211	CLA	CMC-C2C-C1C	2.54	128.91	125.04
21	A	1135	CLA	C3C-C4C-NC	2.54	113.42	110.57
21	B	1234	CLA	C3C-C4C-NC	2.54	113.42	110.57
21	B	1236	CLA	CMB-C2B-C3B	2.54	129.43	124.68
21	1	1001	CLA	CBC-CAC-C3C	-2.54	105.44	112.43
21	B	1234	CLA	C4D-C3D-CAD	2.54	111.09	108.10
21	A	9012	CLA	C1-O2A-CGA	2.54	123.10	116.44
21	2	2002	CLA	CMD-C2D-C3D	-2.54	121.78	127.61
21	4	4003	CLA	CMA-C3A-C4A	-2.54	104.96	111.77
21	3	3014	CLA	CMD-C2D-C3D	-2.54	121.78	127.61
21	B	1203	CLA	C4D-C3D-CAD	2.54	111.08	108.10
21	2	2011	CLA	C4D-C3D-CAD	2.54	111.08	108.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	1230	CLA	CMC-C2C-C1C	2.53	128.90	125.04
21	3	3006	CLA	O2D-CGD-O1D	-2.53	118.88	123.84
21	B	1212	CLA	C4D-C3D-CAD	2.53	111.08	108.10
21	3	3011	CLA	CMC-C2C-C1C	2.53	128.90	125.04
21	4	4012	CLA	CMA-C3A-C4A	-2.53	104.96	111.77
21	1	1006	CLA	CMC-C2C-C1C	2.53	128.89	125.04
21	B	1215	CLA	CMB-C2B-C3B	2.53	129.41	124.68
21	B	1236	CLA	C3C-C4C-NC	2.53	113.41	110.57
21	4	4014	CLA	CBC-CAC-C3C	-2.53	105.46	112.43
21	4	4011	CLA	CAA-C2A-C3A	2.53	119.70	112.78
21	A	1109	CLA	CMB-C2B-C3B	2.53	129.41	124.68
21	4	4015	CLA	CHA-C4D-ND	2.53	137.79	132.50
19	L	6020	BCR	C7-C8-C9	-2.53	122.42	126.23
21	B	1225	CLA	C3C-C4C-NC	2.53	113.41	110.57
21	1	1002	CLA	C1-C2-C3	-2.53	121.67	126.04
21	A	1136	CLA	CMC-C2C-C1C	2.53	128.89	125.04
21	4	4008	CLA	CHA-C1A-NA	-2.53	120.61	126.40
21	2	2012	CLA	O2D-CGD-O1D	-2.52	118.90	123.84
21	A	1105	CLA	C4D-C3D-CAD	2.52	111.07	108.10
21	3	3009	CLA	C1-O2A-CGA	2.52	124.42	116.11
21	A	1130	CLA	CMB-C2B-C3B	2.52	129.40	124.68
21	B	1231	CLA	CAC-C3C-C4C	2.52	128.08	124.81
21	1	1010	CLA	CMC-C2C-C1C	2.52	128.88	125.04
21	4	4015	CLA	O2D-CGD-O1D	-2.52	118.91	123.84
21	4	4003	CLA	C3C-C4C-NC	2.52	113.40	110.57
19	B	6011	BCR	C36-C18-C19	2.52	120.17	114.60
21	B	1239	CLA	CHD-C4C-C3C	-2.52	121.14	124.84
21	A	1106	CLA	C4-C3-C5	2.52	119.51	115.27
20	B	7004	LHG	C5-O7-C7	-2.52	111.59	117.79
21	3	3008	CLA	CBC-CAC-C3C	-2.52	105.49	112.43
21	B	1218	CLA	CMB-C2B-C3B	2.52	129.39	124.68
21	A	1125	CLA	C4D-C3D-CAD	2.52	111.06	108.10
21	A	1129	CLA	O2D-CGD-O1D	-2.52	118.92	123.84
21	A	1110	CLA	CAC-C3C-C4C	2.52	128.07	124.81
19	I	6018	BCR	C33-C5-C4	2.52	118.45	113.62
21	3	3006	CLA	C4-C3-C5	2.52	119.50	115.27
21	1	1007	CLA	C3C-C4C-NC	2.52	113.39	110.57
21	4	4013	CLA	CBC-CAC-C3C	-2.51	105.50	112.43
21	3	3004	CLA	CAC-C3C-C4C	2.51	128.07	124.81
21	A	1124	CLA	C1-O2A-CGA	2.51	123.04	116.44
21	A	1139	CLA	C3C-C4C-NC	2.51	113.39	110.57
21	1	1005	CLA	C4-C3-C5	2.51	119.50	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1231	CLA	O2D-CGD-O1D	-2.51	118.93	123.84
21	A	1143	CLA	CMB-C2B-C3B	2.51	129.38	124.68
21	4	4002	CLA	CHC-C1C-C2C	-2.51	119.78	126.72
21	A	9013	CLA	CMB-C2B-C3B	2.51	129.37	124.68
21	2	2005	CLA	OBD-CAD-C3D	-2.51	122.48	128.52
21	B	1207	CLA	CMD-C2D-C3D	-2.51	121.84	127.61
21	B	9023	CLA	C4D-C3D-CAD	2.51	111.05	108.10
21	2	2001	CLA	C2B-C3B-C4B	2.51	108.43	106.29
21	2	2008	CLA	C3D-C4D-ND	2.51	114.29	110.24
21	B	1217	CLA	C3C-C4C-NC	2.51	113.38	110.57
21	A	1139	CLA	C4-C3-C5	2.51	119.49	115.27
21	3	3017	CLA	CMB-C2B-C3B	2.51	129.37	124.68
21	A	1102	CLA	C3D-C4D-ND	2.51	114.29	110.24
21	3	3015	CLA	C3C-C4C-NC	2.50	113.38	110.57
21	3	3010	CLA	C1-O2A-CGA	2.50	123.01	116.44
21	3	3006	CLA	CMB-C2B-C3B	2.50	129.36	124.68
21	3	3001	CLA	CMC-C2C-C1C	2.50	128.85	125.04
21	A	1111	CLA	C4D-C3D-CAD	2.50	111.05	108.10
21	1	1011	CLA	C4-C3-C5	2.50	119.48	115.27
21	B	1219	CLA	C3C-C4C-NC	2.50	113.38	110.57
21	A	1136	CLA	O2D-CGD-O1D	-2.50	118.95	123.84
21	3	3002	CLA	CMB-C2B-C3B	2.50	129.36	124.68
21	2	2002	CLA	C4D-CHA-C1A	2.50	124.29	121.25
21	A	1120	CLA	CMB-C2B-C3B	2.50	129.36	124.68
21	B	9023	CLA	C3D-C4D-ND	2.50	114.28	110.24
21	A	1115	CLA	CMB-C2B-C3B	2.50	129.35	124.68
21	4	4004	CLA	CMA-C3A-C4A	-2.50	105.06	111.77
21	A	1140	CLA	CMB-C2B-C3B	2.50	129.35	124.68
21	B	1231	CLA	CMD-C2D-C3D	-2.50	121.87	127.61
26	1	1501	LUT	C36-C21-C26	-2.50	105.76	109.55
21	B	1205	CLA	C3C-C4C-NC	2.50	113.37	110.57
21	3	3001	CLA	C3C-C4C-NC	2.50	113.37	110.57
21	B	1223	CLA	O2D-CGD-O1D	-2.50	118.96	123.84
24	B	7101	DGD	O6D-C1D-O3G	-2.50	104.06	109.97
21	3	3009	CLA	O1D-CGD-CBD	-2.50	119.38	124.48
21	2	2013	CLA	C3C-C4C-NC	2.50	113.37	110.57
21	A	1106	CLA	CAC-C3C-C4C	2.50	128.05	124.81
21	A	1127	CLA	O2D-CGD-O1D	-2.50	118.96	123.84
21	2	2004	CLA	CMB-C2B-C3B	2.49	129.34	124.68
21	1	1011	CLA	CHC-C1C-C2C	-2.49	119.82	126.72
21	A	1118	CLA	CMB-C2B-C1B	2.49	132.30	128.46
21	A	1102	CLA	C4D-C3D-CAD	2.49	111.03	108.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	1	1005	CLA	CAA-CBA-CGA	-2.49	105.97	113.25
19	I	6018	BCR	C31-C1-C2	2.49	118.88	108.91
21	B	1206	CLA	C4D-C3D-CAD	2.49	111.03	108.10
21	3	3009	CLA	CMB-C2B-C3B	2.49	129.34	124.68
21	B	1224	CLA	C4D-C3D-CAD	2.49	111.03	108.10
21	2	2007	CLA	CHC-C1C-C2C	-2.49	119.83	126.72
21	4	4002	CLA	CMD-C2D-C3D	-2.49	121.89	127.61
21	3	3014	CLA	C4D-C3D-CAD	2.49	111.03	108.10
21	B	1235	CLA	CMB-C2B-C3B	2.49	129.34	124.68
21	B	1226	CLA	C3D-C4D-ND	2.49	114.26	110.24
21	2	2005	CLA	CMD-C2D-C3D	-2.49	121.89	127.61
21	B	1202	CLA	C4D-C3D-CAD	2.49	111.03	108.10
21	A	1129	CLA	CMB-C2B-C3B	2.49	129.33	124.68
21	J	6014	CLA	C1-O2A-CGA	2.49	122.97	116.44
21	1	1001	CLA	C1-O2A-CGA	2.49	122.97	116.44
21	A	1106	CLA	C3C-C4C-NC	2.49	113.36	110.57
21	A	1118	CLA	CMC-C2C-C1C	2.49	128.83	125.04
21	B	1220	CLA	CMB-C2B-C3B	2.49	129.33	124.68
21	A	9013	CLA	CMA-C3A-C2A	-2.49	103.80	113.83
21	B	1224	CLA	CMC-C2C-C1C	2.49	128.82	125.04
21	2	2010	CLA	C3D-C4D-ND	2.49	114.26	110.24
21	A	1107	CLA	O1D-CGD-CBD	-2.49	119.40	124.48
21	A	1138	CLA	C4D-C3D-CAD	2.49	111.03	108.10
21	F	1301	CLA	C3C-C4C-NC	2.48	113.36	110.57
21	A	1102	CLA	O1D-CGD-CBD	-2.48	119.40	124.48
21	B	9023	CLA	C16-C15-C13	-2.48	107.90	115.92
21	A	1123	CLA	CAC-C3C-C4C	2.48	128.03	124.81
21	A	1128	CLA	CMB-C2B-C3B	2.48	129.32	124.68
21	A	1111	CLA	C4-C3-C5	2.48	119.44	115.27
19	A	6008	BCR	C32-C1-C2	2.48	118.83	108.91
21	H	1000	CLA	C3C-C4C-NC	2.48	113.35	110.57
18	B	5002	PQN	C12-C11-C3	-2.48	105.36	112.05
21	B	1216	CLA	C4D-C3D-CAD	2.48	111.02	108.10
21	G	1002	CLA	CHC-C1C-C2C	-2.48	119.86	126.72
21	A	1133	CLA	CBC-CAC-C3C	-2.48	105.60	112.43
21	B	1205	CLA	CMD-C2D-C3D	-2.48	121.91	127.61
21	B	1237	CLA	C3C-C4C-NC	2.48	113.35	110.57
21	4	4008	CLA	CMB-C2B-C3B	2.48	129.31	124.68
21	F	1303	CLA	CMA-C3A-C4A	-2.48	105.12	111.77
21	B	1201	CLA	O1D-CGD-CBD	-2.48	119.42	124.48
21	3	3016	CLA	C3D-C4D-ND	2.47	114.24	110.24
21	3	3016	CLA	C4D-C3D-CAD	2.47	111.01	108.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1140	CLA	C3C-C4C-NC	2.47	113.34	110.57
21	A	1114	CLA	O2D-CGD-O1D	-2.47	119.00	123.84
21	A	1111	CLA	C3C-C4C-NC	2.47	113.34	110.57
21	A	1137	CLA	CAC-C3C-C4C	2.47	128.02	124.81
21	A	1142	CLA	C4D-C3D-CAD	2.47	111.01	108.10
21	2	2010	CLA	CHA-C4D-ND	2.47	137.67	132.50
19	F	6014	BCR	C23-C22-C21	2.47	122.73	118.94
21	A	1136	CLA	C3C-C4C-NC	2.47	113.34	110.57
25	G	2021	LMG	O6-C5-C6	2.47	112.58	106.44
21	B	1225	CLA	CMB-C2B-C3B	2.47	129.30	124.68
20	B	7004	LHG	O4-P-O5	2.47	124.45	112.24
21	A	1109	CLA	O2D-CGD-O1D	-2.47	119.01	123.84
21	A	1122	CLA	CMB-C2B-C3B	2.47	129.30	124.68
21	1	1011	CLA	C16-C15-C13	-2.47	107.94	115.92
21	2	2010	CLA	C3C-C4C-NC	2.47	113.34	110.57
21	A	1128	CLA	C4D-C3D-CAD	2.47	111.00	108.10
21	B	1228	CLA	CAA-C2A-C1A	-2.47	103.89	111.97
21	A	1142	CLA	C3C-C4C-NC	2.47	113.34	110.57
21	A	1101	CLA	CMC-C2C-C1C	2.47	128.79	125.04
21	2	2008	CLA	CMC-C2C-C1C	2.46	128.79	125.04
21	B	1237	CLA	CMD-C2D-C3D	-2.46	121.94	127.61
21	J	6014	CLA	O2D-CGD-O1D	-2.46	119.02	123.84
21	B	1240	CLA	CAA-C2A-C3A	-2.46	106.03	112.78
21	1	1005	CLA	C3C-C4C-NC	2.46	113.33	110.57
21	4	4006	CLA	O1D-CGD-CBD	-2.46	119.44	124.48
21	A	1114	CLA	CAC-C3C-C4C	2.46	128.01	124.81
21	A	1139	CLA	CMD-C2D-C3D	-2.46	121.95	127.61
21	A	1125	CLA	CHA-C4D-ND	2.46	137.65	132.50
21	G	1002	CLA	CAA-C2A-C1A	-2.46	103.91	111.97
26	2	2502	LUT	C35-C34-C33	-2.46	123.80	127.31
19	J	6013	BCR	C36-C18-C17	-2.46	119.47	122.92
21	1	1008	CLA	C1-C2-C3	-2.46	121.79	126.04
21	3	3015	CLA	CMB-C2B-C3B	2.46	129.28	124.68
21	A	1104	CLA	O2D-CGD-O1D	-2.46	119.03	123.84
19	B	6009	BCR	C33-C5-C4	2.46	118.34	113.62
21	B	1210	CLA	O2D-CGD-O1D	-2.46	119.03	123.84
21	B	1201	CLA	C3C-C4C-NC	2.46	113.33	110.57
21	B	9010	CLA	C4D-C3D-CAD	2.46	110.99	108.10
21	A	1136	CLA	CMB-C2B-C3B	2.46	129.28	124.68
21	B	1220	CLA	C3C-C4C-NC	2.46	113.33	110.57
21	B	1212	CLA	CAC-C3C-C4C	2.45	128.00	124.81
19	B	6004	BCR	C34-C9-C8	2.45	121.94	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	3	3013	CLA	C3C-C4C-NC	2.45	113.32	110.57
21	A	1120	CLA	C4D-C3D-CAD	2.45	110.99	108.10
21	B	1219	CLA	CMB-C2B-C3B	2.45	129.27	124.68
21	J	6014	CLA	CMB-C2B-C3B	2.45	129.27	124.68
21	2	2004	CLA	O2D-CGD-O1D	-2.45	119.04	123.84
21	3	3004	CLA	CMB-C2B-C3B	2.45	129.26	124.68
18	A	5001	PQN	C11-C12-C13	-2.45	122.71	126.79
21	B	1213	CLA	CMD-C2D-C3D	-2.45	121.98	127.61
21	A	1132	CLA	O2D-CGD-O1D	-2.45	119.05	123.84
21	A	1120	CLA	C3C-C4C-NC	2.45	113.32	110.57
21	B	1204	CLA	C3C-C4C-NC	2.45	113.32	110.57
21	A	1111	CLA	CMD-C2D-C3D	-2.45	121.98	127.61
21	A	1105	CLA	O2D-CGD-O1D	-2.45	119.05	123.84
21	1	1002	CLA	CBA-CAA-C2A	-2.45	106.64	113.86
21	G	1001	CLA	CMD-C2D-C3D	-2.45	121.99	127.61
21	A	1124	CLA	C4D-C3D-CAD	2.45	110.98	108.10
21	L	1502	CLA	CMD-C2D-C3D	-2.44	121.99	127.61
21	B	1234	CLA	C4-C3-C5	2.44	119.38	115.27
21	2	2013	CLA	C4-C3-C5	2.44	119.38	115.27
21	B	1207	CLA	C3C-C4C-NC	2.44	113.31	110.57
21	A	1130	CLA	CMD-C2D-C3D	-2.44	121.99	127.61
21	2	2008	CLA	CMD-C2D-C3D	-2.44	121.99	127.61
21	4	4006	CLA	CAC-C3C-C4C	-2.44	121.64	124.81
21	A	1113	CLA	CMB-C2B-C3B	2.44	129.25	124.68
21	B	1227	CLA	CMB-C2B-C1B	2.44	132.22	128.46
21	4	4013	CLA	O1D-CGD-CBD	-2.44	119.49	124.48
21	B	1202	CLA	CMC-C2C-C1C	2.44	128.76	125.04
21	4	4014	CLA	C3D-C4D-CHA	-2.44	107.14	112.72
21	A	1113	CLA	C4D-C3D-CAD	2.44	110.97	108.10
21	L	1501	CLA	CMD-C2D-C3D	-2.44	122.00	127.61
21	L	1501	CLA	CMB-C2B-C3B	2.44	129.24	124.68
21	A	1140	CLA	O2D-CGD-O1D	-2.44	119.07	123.84
21	A	1112	CLA	C3C-C4C-NC	2.44	113.31	110.57
21	3	3015	CLA	O2D-CGD-O1D	-2.44	119.07	123.84
21	A	1120	CLA	CAC-C3C-C4C	2.44	127.97	124.81
21	2	2011	CLA	CAC-C3C-C4C	2.44	127.97	124.81
21	A	1121	CLA	CMB-C2B-C3B	2.44	129.24	124.68
21	B	1216	CLA	O2D-CGD-O1D	-2.44	119.07	123.84
21	3	3015	CLA	C4D-C3D-CAD	2.44	110.97	108.10
21	B	1210	CLA	CMD-C2D-C3D	-2.44	122.01	127.61
21	A	9012	CLA	C3D-C4D-ND	2.44	114.18	110.24
21	B	1206	CLA	CMD-C2D-C3D	-2.44	122.01	127.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1109	CLA	C4D-C3D-CAD	2.44	110.97	108.10
21	3	3009	CLA	CED-O2D-CGD	2.44	121.45	115.94
23	A	9011	CL0	CHB-C4A-NA	2.44	127.88	124.51
21	A	1113	CLA	CAC-C3C-C4C	2.44	127.97	124.81
21	A	1126	CLA	C3D-C4D-ND	2.44	114.18	110.24
21	2	2013	CLA	C3D-C4D-ND	2.44	114.18	110.24
21	B	1215	CLA	O2D-CGD-O1D	-2.44	119.08	123.84
21	A	1109	CLA	CAC-C3C-C4C	2.43	127.97	124.81
21	J	6014	CLA	CMD-C2D-C3D	-2.43	122.01	127.61
19	G	2011	BCR	C34-C9-C10	-2.43	119.51	122.92
21	B	1226	CLA	CMB-C2B-C3B	2.43	129.23	124.68
21	3	3004	CLA	C3C-C4C-NC	2.43	113.30	110.57
21	1	1008	CLA	CMA-C3A-C4A	-2.43	105.23	111.77
21	A	1119	CLA	CAC-C3C-C4C	2.43	127.97	124.81
21	A	1138	CLA	O2D-CGD-O1D	-2.43	119.08	123.84
21	A	1121	CLA	C4D-C3D-CAD	2.43	110.96	108.10
21	B	1238	CLA	C3C-C4C-NC	2.43	113.30	110.57
21	A	1139	CLA	C1-C2-C3	-2.43	121.84	126.04
26	1	1502	LUT	C38-C25-C24	-2.43	118.36	123.56
21	J	1302	CLA	C4D-C3D-CAD	2.43	110.96	108.10
21	B	1217	CLA	O2D-CGD-O1D	-2.43	119.09	123.84
21	2	2007	CLA	O2D-CGD-O1D	-2.43	119.09	123.84
19	A	6007	BCR	C23-C22-C21	2.43	122.67	118.94
21	L	1503	CLA	C4D-C3D-CAD	2.43	110.96	108.10
21	2	2009	CLA	CED-O2D-CGD	2.43	121.43	115.94
21	B	1204	CLA	C1-O2A-CGA	2.43	122.82	116.44
21	A	1108	CLA	CMD-C2D-C3D	-2.43	122.03	127.61
21	1	1003	CLA	CHB-C4A-NA	2.43	127.87	124.51
21	B	1234	CLA	CMD-C2D-C3D	-2.43	122.03	127.61
21	1	1003	CLA	CMD-C2D-C3D	-2.43	122.03	127.61
21	F	1302	CLA	C4D-C3D-CAD	2.43	110.96	108.10
21	F	1303	CLA	C4C-C3C-C2C	-2.43	103.36	106.90
21	B	1202	CLA	C3C-C4C-NC	2.43	113.29	110.57
21	L	1502	CLA	CMB-C2B-C3B	2.43	129.22	124.68
21	A	1123	CLA	CMD-C2D-C3D	-2.43	122.03	127.61
21	2	2004	CLA	CMC-C2C-C1C	2.43	128.73	125.04
21	A	1119	CLA	CMD-C2D-C3D	-2.42	122.04	127.61
21	A	1103	CLA	CMD-C2D-C3D	-2.42	122.04	127.61
21	B	1205	CLA	O1D-CGD-CBD	-2.42	119.53	124.48
19	A	6008	BCR	C31-C1-C2	2.42	118.60	108.91
19	A	6002	BCR	C29-C28-C27	2.42	116.79	111.38
21	A	1105	CLA	CAC-C3C-C4C	2.42	127.95	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1110	CLA	CMD-C2D-C3D	-2.42	122.04	127.61
21	B	9022	CLA	CHA-C1A-NA	-2.42	120.85	126.40
21	1	1001	CLA	C3D-C4D-ND	2.42	114.15	110.24
21	1	1004	CLA	C1-C2-C3	-2.42	121.86	126.04
21	A	1117	CLA	CMD-C2D-C3D	-2.42	122.05	127.61
21	F	1302	CLA	CMB-C2B-C3B	2.42	129.21	124.68
21	B	1211	CLA	C3C-C4C-NC	2.42	113.28	110.57
21	2	2010	CLA	O1D-CGD-CBD	-2.42	119.53	124.48
21	3	3002	CLA	CMD-C2D-C3D	-2.42	122.05	127.61
21	3	3001	CLA	CMD-C2D-C3D	-2.42	122.05	127.61
21	L	1501	CLA	O2D-CGD-O1D	-2.42	119.11	123.84
21	A	1128	CLA	CAA-C2A-C3A	-2.42	106.16	112.78
21	B	1222	CLA	CMD-C2D-C3D	-2.42	122.06	127.61
21	B	1227	CLA	C4-C3-C5	2.42	119.33	115.27
21	A	1128	CLA	CMD-C2D-C3D	-2.42	122.06	127.61
21	B	1218	CLA	CMD-C2D-C3D	-2.42	122.06	127.61
21	B	1230	CLA	C3C-C4C-NC	2.41	113.28	110.57
21	3	3011	CLA	CMA-C3A-C4A	-2.41	105.29	111.77
21	A	1143	CLA	CMD-C2D-C3D	-2.41	122.06	127.61
21	B	1204	CLA	CMD-C2D-C3D	-2.41	122.06	127.61
21	4	4005	CLA	C4D-C3D-CAD	2.41	110.94	108.10
21	3	3005	CLA	CMD-C2D-C3D	-2.41	122.07	127.61
21	F	1303	CLA	O2A-C1-C2	2.41	124.55	111.04
21	A	1139	CLA	CMB-C2B-C3B	2.41	129.19	124.68
21	A	1104	CLA	CMD-C2D-C3D	-2.41	122.07	127.61
21	A	1109	CLA	CMD-C2D-C3D	-2.41	122.07	127.61
19	L	6020	BCR	C3-C4-C5	-2.41	109.77	114.08
21	A	1139	CLA	CAC-C3C-C4C	2.41	127.94	124.81
21	B	1223	CLA	CMC-C2C-C1C	2.41	128.71	125.04
21	A	1140	CLA	CMD-C2D-C3D	-2.41	122.07	127.61
18	B	5002	PQN	C2M-C2-C3	-2.41	120.47	124.40
21	A	1142	CLA	CMB-C2B-C3B	2.41	129.40	124.69
21	A	1120	CLA	CMD-C2D-C3D	-2.41	122.08	127.61
21	B	1222	CLA	O2D-CGD-O1D	-2.41	119.13	123.84
21	1	1005	CLA	CMB-C2B-C3B	2.41	129.18	124.68
21	B	1220	CLA	C4D-C3D-CAD	2.41	110.93	108.10
21	1	1006	CLA	C3C-C4C-NC	2.40	113.27	110.57
27	4	4503	NEX	C12-C13-C14	2.40	122.63	118.94
21	A	1101	CLA	C3C-C4C-NC	2.40	113.27	110.57
21	B	1207	CLA	CAC-C3C-C4C	2.40	127.93	124.81
21	B	1231	CLA	C3C-C4C-NC	2.40	113.27	110.57
21	3	3006	CLA	C3C-C4C-NC	2.40	113.27	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1230	CLA	CMB-C2B-C3B	2.40	129.17	124.68
21	2	2007	CLA	CMB-C2B-C3B	2.40	129.17	124.68
21	3	3001	CLA	C1-O2A-CGA	2.40	122.74	116.44
21	A	1114	CLA	C3C-C4C-NC	2.40	113.26	110.57
21	B	1208	CLA	CMD-C2D-C3D	-2.40	122.09	127.61
21	B	1212	CLA	CMD-C2D-C3D	-2.40	122.09	127.61
21	B	1209	CLA	CMB-C2B-C3B	2.40	129.16	124.68
19	L	6019	BCR	C2-C1-C6	2.40	114.17	110.48
21	A	1135	CLA	CMD-C2D-C3D	-2.40	122.10	127.61
21	3	3006	CLA	CMD-C2D-C3D	-2.40	122.10	127.61
21	3	3014	CLA	CMC-C2C-C1C	2.40	128.69	125.04
21	L	1502	CLA	C4D-C3D-CAD	2.40	110.92	108.10
21	1	1007	CLA	CGD-CBD-CAD	-2.40	102.97	110.73
21	A	1142	CLA	CMD-C2D-C3D	-2.40	122.10	127.61
21	A	1104	CLA	CMB-C2B-C3B	2.40	129.16	124.68
21	A	1105	CLA	CMB-C2B-C3B	2.40	129.16	124.68
21	B	1204	CLA	CMB-C2B-C3B	2.40	129.16	124.68
21	2	2007	CLA	CMD-C2D-C3D	-2.39	122.11	127.61
21	2	2010	CLA	CED-O2D-CGD	2.39	121.35	115.94
21	A	1101	CLA	CMD-C2D-C3D	-2.39	122.11	127.61
19	G	2011	BCR	C29-C28-C27	2.39	116.73	111.38
26	1	1501	LUT	C39-C29-C30	-2.39	119.57	122.92
21	B	1218	CLA	C4D-C3D-CAD	2.39	110.92	108.10
21	B	1221	CLA	C1-O2A-CGA	2.39	122.72	116.44
21	4	4004	CLA	CAA-C2A-C3A	-2.39	106.23	112.78
19	A	6011	BCR	C24-C25-C26	-2.39	115.67	121.46
21	J	1302	CLA	CMD-C2D-C3D	-2.39	122.11	127.61
21	B	1206	CLA	O2D-CGD-O1D	-2.39	119.17	123.84
21	A	1124	CLA	C3C-C4C-NC	2.39	113.25	110.57
21	J	1302	CLA	O2D-CGD-O1D	-2.39	119.17	123.84
21	H	1000	CLA	CMD-C2D-C3D	-2.39	122.12	127.61
18	A	5001	PQN	C2M-C2-C3	-2.39	120.51	124.40
21	1	1005	CLA	CMD-C2D-C3D	-2.39	122.12	127.61
21	A	9013	CLA	C7-C6-C5	-2.39	106.88	113.36
21	J	1302	CLA	C3C-C4C-NC	2.39	113.25	110.57
21	F	1301	CLA	CMD-C2D-C3D	-2.39	122.13	127.61
19	A	6003	BCR	C23-C22-C21	2.39	122.60	118.94
21	1	1013	CLA	CMD-C2D-C3D	-2.38	122.13	127.61
21	B	1202	CLA	CMD-C2D-C3D	-2.38	122.13	127.61
21	2	2007	CLA	C4D-C3D-CAD	2.38	110.91	108.10
21	2	2005	CLA	CHA-C4D-ND	2.38	137.49	132.50
21	A	1127	CLA	C4D-C3D-CAD	2.38	110.91	108.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	2	2006	CLA	C3C-C4C-NC	2.38	113.24	110.57
21	B	1214	CLA	O2D-CGD-O1D	-2.38	119.18	123.84
21	3	3009	CLA	O2D-CGD-O1D	-2.38	119.18	123.84
21	A	1101	CLA	C4D-C3D-CAD	2.38	110.90	108.10
21	A	1114	CLA	CMD-C2D-C3D	-2.38	122.14	127.61
21	1	1005	CLA	OBD-CAD-C3D	-2.38	122.79	128.52
21	B	1240	CLA	CMB-C2B-C3B	2.38	129.13	124.68
21	A	1134	CLA	CMD-C2D-C3D	-2.38	122.14	127.61
21	A	1142	CLA	O2D-CGD-O1D	-2.38	119.19	123.84
21	3	3010	CLA	CMC-C2C-C1C	2.38	128.66	125.04
21	B	1212	CLA	C3C-C4C-NC	2.38	113.24	110.57
20	A	7003	LHG	O4-P-O5	2.38	124.00	112.24
19	A	6002	BCR	C15-C14-C13	-2.38	123.92	127.31
21	B	1224	CLA	CMD-C2D-C3D	-2.38	122.14	127.61
21	A	1139	CLA	C6-C5-C3	-2.38	107.22	113.45
21	A	1110	CLA	O2D-CGD-O1D	-2.38	119.19	123.84
21	B	1237	CLA	C4-C3-C5	2.38	119.27	115.27
21	A	1115	CLA	O2D-CGD-O1D	-2.38	119.19	123.84
21	B	1235	CLA	C3C-C4C-NC	2.38	113.24	110.57
21	L	1501	CLA	C3C-C4C-NC	2.38	113.24	110.57
21	A	1123	CLA	O1D-CGD-CBD	-2.38	119.62	124.48
21	A	1130	CLA	C4D-C3D-CAD	2.38	110.90	108.10
21	A	1141	CLA	CMD-C2D-C3D	-2.38	122.15	127.61
21	A	1129	CLA	C4D-C3D-CAD	2.37	110.89	108.10
21	B	1237	CLA	CAC-C3C-C4C	2.37	127.89	124.81
21	A	1107	CLA	C1-O2A-CGA	2.37	122.67	116.44
21	B	1230	CLA	O1D-CGD-CBD	-2.37	119.63	124.48
19	B	6011	BCR	C8-C7-C6	-2.37	120.54	127.20
21	2	2004	CLA	C4D-CHA-C1A	2.37	124.14	121.25
21	A	1102	CLA	C5-C3-C4	2.37	119.84	114.60
21	L	1503	CLA	CMD-C2D-C3D	-2.37	122.16	127.61
21	3	3016	CLA	CMD-C2D-C3D	-2.37	122.16	127.61
21	A	1131	CLA	CMC-C2C-C1C	2.37	128.65	125.04
19	A	6008	BCR	C4-C5-C6	-2.37	119.29	122.73
26	4	4501	LUT	C12-C13-C14	2.37	122.58	118.94
21	3	3015	CLA	CMD-C2D-C3D	-2.37	122.17	127.61
21	A	9013	CLA	C4C-C3C-C2C	-2.37	103.45	106.90
21	2	2002	CLA	C1-C2-C3	-2.37	121.95	126.04
21	A	1110	CLA	C4D-C3D-CAD	2.37	110.89	108.10
21	A	1102	CLA	CMD-C2D-C3D	-2.37	122.17	127.61
21	J	1302	CLA	C4-C3-C5	2.37	119.25	115.27
27	4	4503	NEX	C20-C13-C12	2.37	121.81	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	4	4006	CLA	CMC-C2C-C3C	2.37	132.54	126.12
21	A	1124	CLA	CMD-C2D-C3D	-2.37	122.17	127.61
21	B	1216	CLA	CAC-C3C-C4C	2.36	127.88	124.81
21	F	1303	CLA	C1-O2A-CGA	2.36	122.39	112.41
21	B	1216	CLA	C3C-C4C-NC	2.36	113.22	110.57
19	B	6004	BCR	C8-C9-C10	2.36	122.57	118.94
21	B	1226	CLA	C3C-C4C-NC	2.36	113.22	110.57
21	A	1108	CLA	C4D-C3D-CAD	2.36	110.88	108.10
18	B	5002	PQN	C11-C12-C13	-2.36	122.86	126.79
19	L	6020	BCR	C23-C22-C21	2.36	122.57	118.94
21	B	1210	CLA	C4-C3-C5	2.36	119.24	115.27
21	B	9022	CLA	O2D-CGD-O1D	-2.36	119.22	123.84
21	B	1240	CLA	CHC-C1C-C2C	-2.36	120.19	126.72
21	A	1109	CLA	CAA-C2A-C3A	-2.36	106.31	112.78
21	B	1235	CLA	CMD-C2D-C3D	-2.36	122.19	127.61
21	A	1135	CLA	CMB-C2B-C3B	2.36	129.09	124.68
21	4	4005	CLA	CMB-C2B-C3B	2.36	129.09	124.68
21	4	4002	CLA	C1-O2A-CGA	2.36	122.64	116.44
21	A	1136	CLA	CMD-C2D-C3D	-2.36	122.19	127.61
21	B	1220	CLA	CMD-C2D-C3D	-2.36	122.19	127.61
21	3	3002	CLA	O2D-CGD-O1D	-2.36	119.23	123.84
21	B	1230	CLA	CMD-C2D-C3D	-2.36	122.19	127.61
21	1	1012	CLA	O1D-CGD-CBD	-2.36	119.66	124.48
19	B	6010	BCR	C38-C26-C27	2.36	118.14	113.62
21	A	1116	CLA	CMD-C2D-C3D	-2.36	122.19	127.61
21	A	1137	CLA	CMD-C2D-C3D	-2.36	122.19	127.61
21	2	2006	CLA	CAC-C3C-C4C	2.36	127.87	124.81
27	4	4503	NEX	C38-C25-C26	-2.36	118.31	122.26
21	A	1108	CLA	C3C-C4C-NC	2.36	113.21	110.57
21	A	1105	CLA	CMD-C2D-C3D	-2.35	122.20	127.61
19	A	6008	BCR	C36-C18-C17	-2.35	119.63	122.92
21	3	3017	CLA	CAC-C3C-C4C	2.35	127.86	124.81
21	B	1239	CLA	C6-C7-C8	-2.35	108.32	115.92
21	1	1013	CLA	C4-C3-C5	2.35	119.22	115.27
21	B	1231	CLA	C4D-C3D-CAD	2.35	110.87	108.10
21	B	1214	CLA	CMD-C2D-C3D	-2.35	122.21	127.61
21	A	1117	CLA	C4D-C3D-CAD	2.35	110.86	108.10
21	A	1133	CLA	CMB-C2B-C3B	2.35	129.07	124.68
21	3	3011	CLA	C1-O2A-CGA	2.35	123.84	116.11
26	1	1502	LUT	C1-C2-C3	-2.35	108.34	113.64
21	L	1502	CLA	C4-C3-C5	2.35	119.22	115.27
21	B	1216	CLA	CMD-C2D-C3D	-2.34	122.22	127.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1133	CLA	CMD-C2D-C3D	-2.34	122.22	127.61
21	2	2012	CLA	CBC-CAC-C3C	-2.34	105.97	112.43
21	B	1201	CLA	C4D-C3D-CAD	2.34	110.86	108.10
19	F	6016	BCR	C36-C18-C17	-2.34	119.64	122.92
21	4	4013	CLA	CAC-C3C-C4C	2.34	127.85	124.81
21	L	1503	CLA	C1-O2A-CGA	2.34	122.58	116.44
21	B	1219	CLA	CMD-C2D-C3D	-2.34	122.23	127.61
21	1	1001	CLA	CMC-C2C-C1C	2.34	128.60	125.04
21	3	3016	CLA	CAC-C3C-C4C	2.34	127.84	124.81
21	3	3012	CLA	CHC-C1C-C2C	-2.34	120.25	126.72
21	A	1125	CLA	CHA-C1A-NA	-2.34	121.04	126.40
21	4	4014	CLA	O2A-CGA-CBA	2.34	121.53	114.03
21	1	1011	CLA	CGD-CBD-CAD	-2.34	103.17	110.73
21	1	1012	CLA	CMC-C2C-C1C	2.34	128.59	125.04
21	1	1009	CLA	CHA-C4D-ND	2.33	137.38	132.50
21	B	1208	CLA	CMB-C2B-C3B	2.33	129.04	124.68
21	A	1129	CLA	C5-C3-C4	2.33	119.75	114.60
19	A	6007	BCR	C35-C13-C14	-2.33	119.66	122.92
21	B	1228	CLA	CMD-C2D-C3D	-2.33	122.25	127.61
21	1	1012	CLA	CED-O2D-CGD	2.33	121.21	115.94
21	A	1103	CLA	C4D-C3D-CAD	2.33	110.84	108.10
21	A	1115	CLA	C4D-C3D-CAD	2.33	110.84	108.10
21	B	1239	CLA	C4D-C3D-CAD	2.33	110.84	108.10
21	2	2013	CLA	O1D-CGD-CBD	-2.33	119.72	124.48
21	A	1120	CLA	O2D-CGD-O1D	-2.33	119.28	123.84
21	A	1116	CLA	C4D-C3D-CAD	2.33	110.84	108.10
21	A	1119	CLA	C4D-C3D-CAD	2.33	110.84	108.10
27	4	4503	NEX	C27-C28-C29	-2.33	121.92	125.53
21	B	1221	CLA	O1D-CGD-CBD	-2.33	119.72	124.48
21	A	1122	CLA	CAC-C3C-C4C	2.33	127.83	124.81
21	B	1222	CLA	C3C-C4C-NC	2.33	113.18	110.57
21	4	4014	CLA	CMA-C3A-C4A	-2.33	105.52	111.77
21	B	1220	CLA	O2D-CGD-O1D	-2.33	119.29	123.84
21	1	1013	CLA	CAA-C2A-C1A	2.33	119.60	111.97
21	A	1117	CLA	C3C-C4C-NC	2.33	113.18	110.57
21	3	3010	CLA	C4-C3-C5	2.32	119.18	115.27
21	2	2014	CLA	C3C-C4C-NC	2.32	113.18	110.57
21	2	2012	CLA	CMC-C2C-C1C	2.32	128.58	125.04
21	4	4003	CLA	C4C-C3C-C2C	-2.32	103.51	106.90
21	B	1217	CLA	CAC-C3C-C4C	2.32	127.82	124.81
21	A	1134	CLA	C4D-C3D-CAD	2.32	110.83	108.10
21	4	4006	CLA	C3C-C4C-NC	2.32	113.17	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	3	3001	CLA	O1D-CGD-CBD	-2.32	119.74	124.48
21	B	1239	CLA	O1D-CGD-CBD	-2.32	119.74	124.48
21	B	1218	CLA	O1D-CGD-CBD	-2.32	119.74	124.48
23	A	9011	CL0	CMD-C2D-C3D	-2.32	122.28	127.61
21	2	2008	CLA	C4D-C3D-CAD	2.32	110.83	108.10
21	2	2014	CLA	OBD-CAD-C3D	-2.32	122.95	128.52
21	1	1009	CLA	O2D-CGD-O1D	-2.32	119.31	123.84
21	B	1210	CLA	CED-O2D-CGD	2.32	121.17	115.94
21	F	1301	CLA	CMB-C2B-C3B	2.31	129.01	124.68
21	3	3002	CLA	C4D-C3D-CAD	2.31	110.82	108.10
21	4	4013	CLA	C4-C3-C5	2.31	118.63	115.98
21	4	4011	CLA	C16-C15-C13	-2.31	108.44	115.92
21	B	1229	CLA	C4D-C3D-CAD	2.31	110.82	108.10
19	J	6013	BCR	C35-C13-C14	-2.31	119.68	122.92
21	B	1221	CLA	C3D-C4D-ND	2.31	113.98	110.24
21	B	1210	CLA	CAC-C3C-C2C	2.31	131.49	127.53
21	A	9012	CLA	O2D-CGD-O1D	-2.31	119.32	123.84
21	2	2014	CLA	CMC-C2C-C1C	2.31	128.56	125.04
21	B	1225	CLA	O2D-CGD-O1D	-2.31	119.32	123.84
21	A	1116	CLA	CAC-C3C-C4C	2.31	127.81	124.81
21	B	9010	CLA	CHB-C4A-NA	2.31	127.71	124.51
21	A	1137	CLA	C4D-C3D-CAD	2.31	110.82	108.10
21	A	1119	CLA	C3C-C4C-NC	2.31	113.16	110.57
26	4	4501	LUT	C39-C29-C30	-2.31	119.69	122.92
19	A	6007	BCR	C33-C5-C4	2.31	118.05	113.62
21	A	1134	CLA	CMB-C2B-C3B	2.31	128.99	124.68
21	G	1002	CLA	CMB-C2B-C3B	2.31	128.99	124.68
19	F	6016	BCR	C30-C25-C26	2.30	125.86	122.61
19	B	6009	BCR	C23-C22-C21	2.30	122.48	118.94
21	A	1106	CLA	C4D-C3D-CAD	2.30	110.81	108.10
21	B	1212	CLA	CAA-C2A-C3A	-2.30	106.47	112.78
21	1	1001	CLA	CHC-C1C-C2C	-2.30	120.36	126.72
21	A	1141	CLA	C4D-C3D-CAD	2.30	110.81	108.10
21	2	2005	CLA	CHC-C1C-C2C	-2.30	120.36	126.72
21	A	1137	CLA	CMB-C2B-C3B	2.30	128.98	124.68
21	2	2008	CLA	C4-C3-C2	-2.30	117.78	123.68
21	4	4005	CLA	C1D-CHD-C4C	-2.30	121.09	126.06
21	3	3008	CLA	CMC-C2C-C1C	2.30	128.54	125.04
21	F	1302	CLA	O2D-CGD-O1D	-2.30	119.34	123.84
21	L	1503	CLA	C3C-C4C-NC	2.30	113.15	110.57
21	A	9013	CLA	C4D-C3D-CAD	2.30	110.81	108.10
19	F	6016	BCR	C35-C13-C12	2.30	121.70	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	2	2013	CLA	CED-O2D-CGD	2.30	121.14	115.94
21	B	1205	CLA	C4-C3-C5	2.30	119.14	115.27
21	1	1007	CLA	CED-O2D-CGD	2.30	121.14	115.94
21	A	1136	CLA	CBA-CAA-C2A	2.30	120.64	113.86
21	A	1124	CLA	CAC-C3C-C4C	2.30	127.79	124.81
21	B	9023	CLA	C1-C2-C3	-2.30	122.07	126.04
19	A	6011	BCR	C29-C28-C27	-2.30	106.25	111.38
21	A	9013	CLA	CHA-C1A-NA	-2.30	121.14	126.40
21	B	1217	CLA	CMD-C2D-C3D	-2.29	122.33	127.61
21	A	9012	CLA	CHD-C4C-C3C	-2.29	121.47	124.84
21	1	1007	CLA	C3D-C4D-CHA	-2.29	107.47	112.72
21	A	1129	CLA	C3C-C4C-NC	2.29	113.14	110.57
21	A	1126	CLA	O1D-CGD-CBD	-2.29	119.79	124.48
21	B	1222	CLA	CAC-C3C-C4C	2.29	127.79	124.81
21	1	1012	CLA	C1-O2A-CGA	2.29	122.46	116.44
21	2	2003	CLA	CAC-C3C-C4C	2.29	127.78	124.81
21	A	1107	CLA	CAA-C2A-C3A	-2.29	106.50	112.78
26	4	4501	LUT	C8-C7-C6	2.29	133.64	127.20
21	A	1114	CLA	C4D-C3D-CAD	2.29	110.80	108.10
21	A	1126	CLA	C4D-C3D-CAD	2.29	110.80	108.10
21	3	3011	CLA	C3C-C4C-NC	2.29	113.14	110.57
26	1	1502	LUT	C15-C35-C34	2.29	128.16	123.47
21	A	1143	CLA	C4D-C3D-CAD	2.29	110.79	108.10
20	B	7004	LHG	O8-C23-C24	2.29	119.09	111.91
19	G	2011	BCR	C38-C26-C27	2.29	118.01	113.62
27	4	4503	NEX	O23-C23-C24	-2.29	105.26	109.80
21	3	3010	CLA	C4D-C3D-CAD	2.29	110.79	108.10
21	1	1013	CLA	CHD-C4C-C3C	-2.29	121.48	124.84
21	B	1225	CLA	CMD-C2D-C3D	-2.29	122.35	127.61
21	A	1110	CLA	CMA-C3A-C4A	-2.29	105.63	111.77
21	F	1301	CLA	O2D-CGD-O1D	-2.29	119.37	123.84
21	A	1132	CLA	C3C-C4C-NC	2.29	113.14	110.57
19	A	6011	BCR	C30-C25-C26	2.29	125.83	122.61
19	I	6018	BCR	C32-C1-C2	2.29	118.05	108.91
21	B	1225	CLA	CAC-C3C-C4C	2.29	127.78	124.81
21	4	4014	CLA	CAA-CBA-CGA	-2.28	106.44	112.51
21	B	1215	CLA	C3C-C4C-NC	2.28	113.13	110.57
19	J	6012	BCR	C31-C1-C6	-2.28	106.59	110.30
21	L	1503	CLA	C5-C3-C4	2.28	119.65	114.60
21	1	1006	CLA	CHC-C1C-C2C	-2.28	120.41	126.72
21	3	3008	CLA	CHC-C1C-C2C	-2.28	120.41	126.72
21	1	1001	CLA	CHA-C4D-ND	2.28	137.28	132.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	1106	CLA	O1D-CGD-CBD	-2.28	119.81	124.48
21	1	1007	CLA	CMA-C3A-C4A	-2.28	105.64	111.77
21	2	2005	CLA	CMA-C3A-C4A	-2.28	105.64	111.77
21	B	9022	CLA	C16-C15-C13	-2.28	108.55	115.92
21	A	1136	CLA	C4D-C3D-CAD	2.28	110.78	108.10
21	2	2013	CLA	CHA-C4D-ND	2.28	137.27	132.50
21	B	1201	CLA	CMD-C2D-C3D	-2.28	122.37	127.61
21	4	4003	CLA	CAA-CBA-CGA	-2.28	106.59	113.25
21	3	3003	CLA	CHD-C4C-C3C	-2.28	121.49	124.84
21	1	1006	CLA	CHA-C4D-ND	2.28	137.26	132.50
21	B	1205	CLA	CMB-C2B-C3B	2.28	128.94	124.68
19	A	6002	BCR	C38-C26-C27	2.28	117.99	113.62
21	B	1210	CLA	OBD-CAD-C3D	-2.28	123.04	128.52
21	B	1203	CLA	CMD-C2D-C3D	-2.28	122.38	127.61
21	3	3001	CLA	CAC-C3C-C4C	2.27	127.76	124.81
21	3	3012	CLA	CMC-C2C-C1C	2.27	128.50	125.04
21	A	1103	CLA	CAA-C2A-C3A	-2.27	106.55	112.78
19	F	6014	BCR	C7-C6-C5	-2.27	115.96	121.46
21	4	4010	CLA	C5-C3-C4	2.27	119.62	114.60
21	4	4013	CLA	C4D-C3D-CAD	2.27	110.77	108.10
21	3	3013	CLA	O1D-CGD-CBD	-2.27	119.84	124.48
21	4	4012	CLA	C3C-C4C-NC	2.27	113.11	110.57
21	B	1228	CLA	C4D-C3D-CAD	2.27	110.77	108.10
21	2	2007	CLA	CHA-C4D-ND	2.27	137.24	132.50
21	A	9013	CLA	O1D-CGD-CBD	-2.27	119.85	124.48
21	4	4001	CLA	C1-O2A-CGA	2.27	122.39	116.44
21	A	1119	CLA	O2D-CGD-O1D	-2.27	119.41	123.84
21	A	1130	CLA	C3C-C4C-NC	2.26	113.11	110.57
21	A	1124	CLA	O2D-CGD-O1D	-2.26	119.41	123.84
19	J	6013	BCR	C31-C1-C6	-2.26	106.63	110.30
20	2	2801	LHG	C5-O7-C7	-2.26	112.22	117.79
21	G	1001	CLA	CMA-C3A-C4A	-2.26	105.69	111.77
21	A	1117	CLA	CAC-C3C-C4C	2.26	127.75	124.81
19	A	6002	BCR	C33-C5-C4	2.26	117.96	113.62
24	B	7101	DGD	CFB-CEB-CDB	-2.26	102.94	114.42
21	2	2009	CLA	CAA-C2A-C3A	-2.26	106.58	112.78
21	B	1236	CLA	CMD-C2D-C3D	-2.26	122.41	127.61
21	1	1014	CLA	CMD-C2D-C3D	-2.26	122.41	127.61
21	B	1240	CLA	C4-C3-C2	-2.26	117.88	123.68
21	A	1125	CLA	C4D-CHA-C1A	2.26	124.00	121.25
21	B	1220	CLA	CAC-C3C-C4C	2.26	127.74	124.81
21	B	1231	CLA	CMB-C2B-C3B	2.26	128.91	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	A	1113	CLA	CMD-C2D-C3D	-2.26	122.42	127.61
21	A	1126	CLA	CMD-C2D-C3D	-2.26	122.42	127.61
21	3	3017	CLA	O2D-CGD-O1D	-2.26	119.42	123.84
21	A	1141	CLA	CMB-C2B-C3B	2.26	128.90	124.68
21	B	1207	CLA	CMA-C3A-C2A	-2.25	104.73	113.83
21	3	3015	CLA	CAC-C3C-C4C	2.25	127.73	124.81
19	B	6010	BCR	C33-C5-C4	2.25	117.95	113.62
21	B	1213	CLA	C4-C3-C5	2.25	119.06	115.27
21	3	3006	CLA	C4D-C3D-CAD	2.25	110.75	108.10
21	1	1010	CLA	CHD-C4C-C3C	-2.25	121.53	124.84
19	I	6018	BCR	C35-C13-C12	2.25	121.62	118.08
21	A	1118	CLA	CBC-CAC-C3C	-2.25	106.23	112.43
26	2	2501	LUT	C38-C25-C24	-2.25	118.75	123.56
19	A	6011	BCR	C38-C26-C27	2.25	117.93	113.62
21	1	1004	CLA	CMA-C3A-C4A	-2.25	105.74	111.77
21	B	1206	CLA	CAA-C2A-C3A	-2.25	106.63	112.78
21	4	4006	CLA	CHC-C1C-C2C	-2.24	120.51	126.72
21	2	2001	CLA	C2A-C3A-C4A	-2.24	101.02	103.59
21	B	1222	CLA	C4D-C3D-CAD	2.24	110.74	108.10
19	B	6005	BCR	C30-C25-C24	2.24	122.12	115.78
21	3	3010	CLA	O2D-CGD-O1D	-2.24	119.46	123.84
21	A	1115	CLA	CAC-C3C-C4C	2.24	127.72	124.81
21	4	4010	CLA	CAA-C2A-C1A	-2.24	104.64	111.97
26	1	1501	LUT	C3-C4-C5	-2.24	107.39	111.85
21	A	9012	CLA	C4-C3-C5	2.24	119.03	115.27
21	B	1210	CLA	C4C-C3C-C2C	-2.24	103.64	106.90
21	B	1215	CLA	C4D-C3D-CAD	2.24	110.73	108.10
26	1	1501	LUT	C18-C5-C4	2.24	118.50	114.36
21	A	1126	CLA	CAA-CBA-CGA	-2.24	106.72	113.25
21	4	4010	CLA	CHC-C1C-C2C	-2.24	120.54	126.72
21	2	2013	CLA	CBC-CAC-C3C	-2.23	106.27	112.43
21	B	9022	CLA	CMC-C2C-C1C	2.23	128.44	125.04
21	2	2007	CLA	CMC-C2C-C1C	2.23	128.44	125.04
19	F	6016	BCR	C38-C26-C27	2.23	117.91	113.62
21	1	1011	CLA	C3C-C4C-NC	2.23	113.08	110.57
21	G	1002	CLA	C1D-CHD-C4C	-2.23	121.24	126.06
21	A	1121	CLA	O1D-CGD-CBD	-2.23	119.92	124.48
21	2	2003	CLA	CMC-C2C-C3C	2.23	132.18	126.12
19	A	6008	BCR	C38-C26-C27	2.23	117.90	113.62
19	B	6006	BCR	C7-C6-C5	-2.23	116.06	121.46
19	A	6002	BCR	C34-C9-C10	-2.23	119.80	122.92
19	F	6016	BCR	C34-C9-C10	-2.23	119.80	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	1107	CLA	O2D-CGD-O1D	-2.23	119.49	123.84
26	4	4501	LUT	C40-C33-C34	-2.23	119.81	122.92
21	1	1014	CLA	CMC-C2C-C1C	2.23	128.43	125.04
19	B	6005	BCR	C33-C5-C4	2.23	117.89	113.62
21	A	1104	CLA	CAA-C2A-C3A	-2.22	106.69	112.78
19	A	6008	BCR	C30-C25-C26	2.22	125.75	122.61
21	A	1110	CLA	C3C-C4C-NC	2.22	113.06	110.57
21	B	1237	CLA	CMB-C2B-C3B	2.22	128.84	124.68
21	A	1131	CLA	CAC-C3C-C4C	2.22	127.69	124.81
21	A	1103	CLA	C3C-C4C-NC	2.22	113.06	110.57
21	B	1223	CLA	OBD-CAD-C3D	-2.22	123.17	128.52
19	F	6016	BCR	C29-C28-C27	-2.22	106.41	111.38
21	B	1223	CLA	CMD-C2D-C3D	-2.22	122.50	127.61
21	A	1118	CLA	CHC-C1C-C2C	-2.22	120.58	126.72
21	B	1223	CLA	C4D-C3D-CAD	2.22	110.71	108.10
21	B	1226	CLA	C4D-C3D-CAD	2.22	110.71	108.10
19	I	6020	BCR	C34-C9-C10	-2.22	119.81	122.92
21	4	4008	CLA	CHB-C4A-NA	2.22	127.58	124.51
21	B	1206	CLA	CHC-C1C-C2C	-2.22	120.58	126.72
21	4	4009	CLA	CBC-CAC-C3C	-2.22	106.31	112.43
21	A	1135	CLA	CMC-C2C-C1C	2.22	128.42	125.04
21	2	2013	CLA	CMD-C2D-C3D	-2.22	122.51	127.61
21	3	3014	CLA	O2D-CGD-O1D	-2.22	119.50	123.84
21	B	9022	CLA	C3D-C4D-ND	2.22	113.82	110.24
21	L	1502	CLA	C3C-C4C-NC	2.22	113.06	110.57
19	L	6020	BCR	C29-C28-C27	2.22	116.33	111.38
21	F	1303	CLA	O2D-CGD-O1D	-2.21	119.51	123.84
21	B	9022	CLA	C1-C2-C3	-2.21	122.21	126.04
21	1	1005	CLA	CHA-C4D-ND	2.21	137.13	132.50
21	1	1007	CLA	C1-O2A-CGA	2.21	122.25	116.44
21	L	1503	CLA	CMB-C2B-C3B	2.21	128.82	124.68
26	1	1502	LUT	C37-C21-C22	-2.21	105.24	109.44
21	1	1001	CLA	CGD-CBD-CAD	-2.21	103.57	110.73
21	B	1209	CLA	CMD-C2D-C3D	-2.21	122.53	127.61
21	A	1118	CLA	O1D-CGD-CBD	-2.21	119.96	124.48
21	3	3013	CLA	CMD-C2D-C3D	-2.21	122.53	127.61
21	A	1126	CLA	CAA-C2A-C3A	-2.21	106.73	112.78
21	3	3010	CLA	C3C-C4C-NC	2.21	113.05	110.57
21	3	3010	CLA	CED-O2D-CGD	2.21	120.93	115.94
21	B	1239	CLA	CAA-CBA-CGA	-2.21	106.81	113.25
21	1	1005	CLA	O2D-CGD-O1D	-2.20	119.53	123.84
21	A	1131	CLA	CMA-C3A-C4A	-2.20	105.85	111.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	3	3003	CLA	CMD-C2D-C3D	-2.20	122.55	127.61
24	B	7101	DGD	CBB-CAB-C9B	-2.20	103.25	114.42
19	J	6013	BCR	C37-C22-C21	-2.20	119.84	122.92
19	A	6003	BCR	C19-C18-C17	2.20	122.32	118.94
21	A	1138	CLA	C3C-C4C-NC	2.20	113.04	110.57
26	2	2501	LUT	C3-C4-C5	-2.20	107.47	111.85
21	A	1137	CLA	C3C-C4C-NC	2.20	113.04	110.57
21	B	1218	CLA	C1-O2A-CGA	2.20	122.21	116.44
19	F	6016	BCR	C23-C22-C21	2.20	122.31	118.94
21	B	1239	CLA	C4C-C3C-C2C	-2.20	103.69	106.90
21	B	1211	CLA	CAC-C3C-C4C	2.20	127.66	124.81
21	B	1230	CLA	CAC-C3C-C4C	2.20	127.66	124.81
21	F	1303	CLA	CHA-C1A-NA	-2.20	121.37	126.40
21	3	3005	CLA	CAC-C3C-C4C	2.20	127.66	124.81
21	B	1237	CLA	O2D-CGD-O1D	-2.19	119.55	123.84
21	B	1231	CLA	CED-O2D-CGD	2.19	120.89	115.94
21	4	4004	CLA	CMC-C2C-C1C	2.19	128.38	125.04
19	J	6013	BCR	C3-C4-C5	-2.19	110.17	114.08
21	B	1217	CLA	C4D-C3D-CAD	2.19	110.68	108.10
21	G	1002	CLA	CAA-CBA-CGA	-2.19	106.86	113.25
21	4	4003	CLA	C4-C3-C5	2.19	118.95	115.27
21	H	1000	CLA	C4D-C3D-CAD	2.19	110.67	108.10
19	I	6020	BCR	C23-C24-C25	-2.19	121.06	127.20
21	4	4015	CLA	CHD-C4C-C3C	-2.19	121.63	124.84
21	B	1236	CLA	C4D-C3D-CAD	2.19	110.67	108.10
19	A	6007	BCR	C30-C25-C26	-2.18	119.54	122.61
21	B	1239	CLA	C1-C2-C3	-2.18	122.27	126.04
21	B	1215	CLA	CAC-C3C-C4C	2.18	127.64	124.81
21	A	1138	CLA	CAC-C3C-C4C	2.18	127.64	124.81
19	B	6004	BCR	C39-C30-C25	-2.18	106.76	110.30
21	B	1217	CLA	CAA-C2A-C3A	-2.18	106.80	112.78
21	3	3014	CLA	CHC-C1C-C2C	-2.18	120.69	126.72
19	B	6010	BCR	C35-C13-C14	-2.18	119.87	122.92
19	A	6007	BCR	C27-C26-C25	-2.18	119.56	122.73
21	A	1131	CLA	CAA-CBA-CGA	-2.18	106.88	113.25
21	4	4013	CLA	OBD-CAD-C3D	-2.18	123.27	128.52
21	3	3001	CLA	CMB-C2B-C3B	2.18	128.76	124.68
19	G	2011	BCR	C7-C8-C9	-2.18	122.94	126.23
21	B	1226	CLA	CAC-C3C-C4C	2.18	127.64	124.81
19	J	6012	BCR	C33-C5-C4	2.18	117.80	113.62
21	2	2012	CLA	CAA-C2A-C3A	-2.18	106.81	112.78
21	B	1240	CLA	C4C-C3C-C2C	-2.18	103.72	106.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	9023	CLA	CBA-CAA-C2A	-2.18	107.44	113.86
21	B	1201	CLA	CAC-C3C-C4C	2.18	127.63	124.81
21	2	2005	CLA	CHA-C1A-NA	-2.18	121.42	126.40
21	4	4009	CLA	C5-C3-C4	2.18	119.41	114.60
27	4	4503	NEX	C24-C23-C22	-2.17	106.57	110.77
21	2	2005	CLA	CMC-C2C-C1C	2.17	128.35	125.04
21	A	1138	CLA	CED-O2D-CGD	2.17	120.86	115.94
21	2	2009	CLA	CBC-CAC-C3C	-2.17	106.44	112.43
21	B	1211	CLA	O1D-CGD-CBD	-2.17	120.04	124.48
21	3	3014	CLA	OBD-CAD-C3D	-2.17	123.29	128.52
21	A	1111	CLA	CMC-C2C-C1C	2.17	128.35	125.04
19	L	6019	BCR	C32-C1-C6	-2.17	106.78	110.30
21	1	1001	CLA	CMB-C2B-C3B	2.17	128.74	124.68
19	B	6004	BCR	C33-C5-C4	2.17	117.78	113.62
21	2	2008	CLA	C4C-C3C-C2C	-2.17	103.73	106.90
21	A	1126	CLA	C4-C3-C5	2.17	118.92	115.27
21	A	9013	CLA	C3D-C4D-ND	2.17	113.75	110.24
21	A	1118	CLA	C3C-C4C-NC	2.17	113.00	110.57
21	A	9012	CLA	CHA-C4D-ND	2.17	137.03	132.50
21	B	1227	CLA	OBD-CAD-C3D	-2.17	123.31	128.52
21	B	1204	CLA	C1-C2-C3	-2.17	122.30	126.04
21	3	3012	CLA	CHA-C4D-ND	2.16	137.02	132.50
26	4	4502	LUT	C17-C1-C6	-2.16	106.79	110.30
19	F	6014	BCR	C24-C25-C26	-2.16	116.22	121.46
23	A	9011	CL0	C3C-C4C-NC	2.16	113.00	110.57
21	A	1122	CLA	C3C-C4C-NC	2.16	113.00	110.57
21	A	1140	CLA	CAC-C3C-C4C	2.16	127.61	124.81
21	4	4004	CLA	CMB-C2B-C3B	2.16	128.72	124.68
26	2	2501	LUT	C12-C13-C14	2.16	122.26	118.94
21	1	1010	CLA	C1D-CHD-C4C	-2.16	121.40	126.06
21	B	1215	CLA	CMD-C2D-C3D	-2.16	122.65	127.61
21	B	1219	CLA	O2D-CGD-O1D	-2.16	119.62	123.84
21	A	1110	CLA	C1-O2A-CGA	2.16	122.10	116.44
21	1	1006	CLA	CAA-C2A-C1A	-2.16	104.91	111.97
21	1	1010	CLA	CMD-C2D-C3D	-2.16	122.65	127.61
21	A	1109	CLA	C3C-C4C-NC	2.16	112.99	110.57
19	B	6011	BCR	C4-C5-C6	-2.16	119.60	122.73
21	F	1303	CLA	CHC-C1C-C2C	-2.15	120.76	126.72
21	B	1203	CLA	O2D-CGD-O1D	-2.15	119.63	123.84
21	2	2013	CLA	CMB-C2B-C3B	2.15	128.71	124.68
21	B	1218	CLA	C3C-C4C-NC	2.15	112.99	110.57
21	B	1239	CLA	CMA-C3A-C2A	-2.15	105.15	113.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	B	1223	CLA	C3D-C4D-ND	2.15	113.72	110.24
19	J	6012	BCR	C35-C13-C14	-2.15	119.91	122.92
21	A	1128	CLA	CAC-C3C-C4C	2.15	127.60	124.81
21	A	1133	CLA	CAC-C3C-C4C	2.15	127.60	124.81
21	4	4007	CLA	CGD-CBD-CAD	-2.15	103.77	110.73
21	2	2006	CLA	C4D-C3D-CAD	2.15	110.63	108.10
21	B	9010	CLA	C3C-C4C-NC	2.15	112.98	110.57
21	4	4007	CLA	CMB-C2B-C1B	2.15	131.77	128.46
21	A	1110	CLA	CHC-C1C-C2C	-2.15	120.78	126.72
21	2	2002	CLA	C4D-C3D-CAD	2.15	110.63	108.10
19	L	6020	BCR	C30-C25-C26	-2.15	119.59	122.61
21	3	3010	CLA	CMD-C2D-C3D	-2.15	122.67	127.61
21	3	3013	CLA	CMC-C2C-C1C	2.15	128.31	125.04
21	B	1240	CLA	CAA-C2A-C1A	-2.15	104.94	111.97
21	F	1303	CLA	CHA-C4D-ND	2.15	136.99	132.50
21	2	2009	CLA	CHC-C1C-C2C	-2.15	120.79	126.72
21	G	1001	CLA	CHA-C4D-ND	2.15	136.99	132.50
21	B	1236	CLA	O1D-CGD-CBD	-2.14	120.10	124.48
21	1	1013	CLA	C4-C3-C2	-2.14	118.18	123.68
21	2	2003	CLA	C4D-CHA-C1A	2.14	123.86	121.25
21	A	1107	CLA	CAC-C3C-C4C	2.14	127.59	124.81
21	1	1009	CLA	CMC-C2C-C1C	2.14	128.30	125.04
21	A	1108	CLA	O2D-CGD-O1D	-2.14	119.65	123.84
21	2	2007	CLA	C3C-C4C-NC	2.14	112.97	110.57
21	B	1219	CLA	CAA-C2A-C3A	-2.14	106.91	112.78
21	A	1108	CLA	O1D-CGD-CBD	-2.14	120.10	124.48
21	A	1117	CLA	O1D-CGD-CBD	-2.14	120.10	124.48
21	A	1128	CLA	C3C-C4C-NC	2.14	112.97	110.57
21	2	2002	CLA	CGD-CBD-CAD	2.14	117.67	110.73
21	2	2007	CLA	C4-C3-C5	2.14	118.87	115.27
21	F	1301	CLA	CAC-C3C-C4C	2.14	127.58	124.81
21	B	1220	CLA	CED-O2D-CGD	2.14	120.77	115.94
21	4	4008	CLA	CHC-C1C-C2C	-2.14	120.81	126.72
26	2	2501	LUT	C32-C33-C34	2.14	122.22	118.94
21	1	1013	CLA	CBA-CAA-C2A	-2.13	107.56	113.86
21	4	4015	CLA	C3D-C4D-ND	2.13	113.69	110.24
21	2	2008	CLA	C1D-CHD-C4C	-2.13	121.45	126.06
21	3	3012	CLA	CMC-C2C-C3C	2.13	131.91	126.12
19	B	6004	BCR	C29-C28-C27	2.13	116.14	111.38
21	1	1012	CLA	CAC-C3C-C4C	2.13	127.58	124.81
21	B	1208	CLA	O2D-CGD-O1D	-2.13	119.67	123.84
19	B	6004	BCR	C12-C13-C14	2.13	122.21	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	1137	CLA	O1D-CGD-CBD	-2.13	120.12	124.48
21	1	1013	CLA	C1D-CHD-C4C	-2.13	121.46	126.06
20	2	2801	LHG	O8-C23-C24	2.13	118.59	111.91
21	3	3010	CLA	CHC-C1C-C2C	-2.13	120.83	126.72
21	B	1240	CLA	CMA-C3A-C4A	-2.13	106.06	111.77
27	4	4503	NEX	C31-C30-C29	2.13	130.35	127.31
21	A	1130	CLA	CAC-C3C-C4C	2.13	127.57	124.81
21	1	1006	CLA	CAC-C3C-C4C	2.13	127.57	124.81
21	3	3012	CLA	CMA-C3A-C4A	-2.13	106.06	111.77
21	B	9023	CLA	C4C-C3C-C2C	-2.12	103.80	106.90
21	4	4001	CLA	CHB-C4A-NA	2.12	127.45	124.51
25	G	2021	LMG	O7-C10-O9	-2.12	118.74	122.96
21	3	3002	CLA	C1-O2A-CGA	2.12	122.02	116.44
26	4	4501	LUT	C37-C21-C26	-2.12	106.33	109.55
21	1	1002	CLA	C3C-C4C-NC	2.12	112.95	110.57
21	3	3010	CLA	C6-C5-C3	-2.12	111.15	114.62
21	3	3002	CLA	CAC-C3C-C4C	2.12	127.56	124.81
21	A	1132	CLA	CMD-C2D-C3D	-2.12	122.73	127.61
21	2	2011	CLA	C2A-C1A-CHA	-2.12	120.15	123.86
21	L	1502	CLA	CAA-C2A-C3A	-2.12	106.97	112.78
21	A	1143	CLA	CAC-C3C-C4C	2.12	127.56	124.81
21	B	1206	CLA	CMB-C2B-C3B	2.12	128.65	124.68
21	4	4004	CLA	CMD-C2D-C3D	-2.12	122.74	127.61
21	B	1223	CLA	CHA-C4D-ND	2.12	136.93	132.50
21	2	2012	CLA	CHC-C1C-C2C	-2.12	120.86	126.72
19	L	6020	BCR	C8-C7-C6	-2.12	121.25	127.20
21	4	4011	CLA	C4-C3-C2	-2.12	118.25	123.68
19	B	6006	BCR	C35-C13-C12	2.12	121.41	118.08
19	F	6014	BCR	C35-C13-C12	2.12	121.41	118.08
24	B	7101	DGD	C3D-C4D-C5D	-2.12	106.47	110.24
21	A	1108	CLA	CED-O2D-CGD	2.12	120.72	115.94
21	A	1127	CLA	CMD-C2D-C3D	-2.11	122.75	127.61
21	4	4009	CLA	C3C-C4C-NC	2.11	112.94	110.57
21	4	4011	CLA	CMB-C2B-C1B	2.11	131.71	128.46
26	4	4501	LUT	C36-C21-C26	-2.11	106.35	109.55
26	2	2501	LUT	C40-C33-C34	-2.11	119.97	122.92
21	B	1239	CLA	C11-C10-C8	-2.11	109.11	115.92
19	I	6020	BCR	C30-C25-C26	-2.11	119.64	122.61
21	1	1013	CLA	C1-O2A-CGA	2.11	121.97	116.44
21	A	9012	CLA	C7-C6-C5	-2.11	107.64	113.36
19	B	6004	BCR	C23-C22-C21	2.11	122.17	118.94
24	B	7101	DGD	O2D-C2D-C1D	-2.11	104.93	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	1129	CLA	CAC-C3C-C4C	2.10	127.54	124.81
21	1	1009	CLA	CHA-C1A-NA	-2.10	121.58	126.40
21	4	4010	CLA	CHA-C1A-NA	-2.10	121.58	126.40
21	A	1142	CLA	CAB-C3B-C4B	-2.10	125.23	128.46
21	B	1228	CLA	C4-C3-C2	-2.10	118.28	123.68
19	I	6018	BCR	C36-C18-C17	-2.10	119.98	122.92
19	B	6010	BCR	C23-C24-C25	-2.10	121.30	127.20
21	L	1501	CLA	OBD-CAD-C3D	-2.10	123.46	128.52
26	1	1501	LUT	C12-C13-C14	2.10	122.16	118.94
21	G	1002	CLA	CMC-C2C-C1C	2.10	128.24	125.04
21	3	3010	CLA	CBA-CAA-C2A	2.10	120.06	113.86
21	4	4001	CLA	CMB-C2B-C3B	2.10	128.60	124.68
21	J	6015	CLA	C3D-C4D-CHA	-2.10	107.92	112.72
19	B	6004	BCR	C29-C30-C25	2.10	113.71	110.48
21	H	1000	CLA	O1D-CGD-CBD	-2.10	120.19	124.48
21	A	1128	CLA	C6-C5-C3	-2.10	107.96	113.45
21	3	3012	CLA	OBD-CAD-C3D	-2.10	123.48	128.52
21	F	1303	CLA	OBD-CAD-C3D	-2.10	123.48	128.52
21	L	1501	CLA	CAC-C3C-C4C	2.09	127.53	124.81
21	3	3010	CLA	CBC-CAC-C3C	-2.09	106.66	112.43
25	G	2021	LMG	C8-O7-C10	-2.09	113.99	117.90
19	A	6017	BCR	C28-C27-C26	-2.09	110.34	114.08
19	L	6020	BCR	C33-C5-C4	2.09	117.64	113.62
21	1	1014	CLA	CHC-C1C-C2C	-2.09	120.93	126.72
21	2	2005	CLA	CMB-C2B-C3B	2.09	128.59	124.68
21	B	1206	CLA	C3C-C4C-NC	2.09	112.92	110.57
18	A	5001	PQN	C12-C11-C3	-2.09	106.40	112.05
21	B	1229	CLA	CMD-C2D-C3D	-2.09	122.80	127.61
21	A	9013	CLA	CGD-CBD-CAD	2.09	117.51	110.73
21	4	4010	CLA	CHA-C4D-ND	2.09	136.87	132.50
21	B	1231	CLA	O1D-CGD-CBD	-2.09	120.21	124.48
21	B	1213	CLA	C6-C5-C3	-2.09	107.98	113.45
21	4	4012	CLA	CMC-C2C-C1C	2.09	128.22	125.04
21	2	2005	CLA	C3D-C4D-ND	2.09	113.61	110.24
21	B	1225	CLA	O1D-CGD-CBD	-2.09	120.21	124.48
21	A	1130	CLA	CAA-C2A-C3A	-2.09	107.06	112.78
21	B	1240	CLA	CMC-C2C-C1C	2.08	128.21	125.04
21	A	1115	CLA	CMD-C2D-C3D	-2.08	122.82	127.61
21	A	1125	CLA	C3D-C4D-ND	2.08	113.61	110.24
27	4	4503	NEX	C28-C29-C30	2.08	122.14	118.94
21	A	1132	CLA	C4D-C3D-CAD	2.08	110.55	108.10
21	B	1206	CLA	CED-O2D-CGD	2.08	120.64	115.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	1	1011	CLA	C1-C2-C3	-2.08	122.45	126.04
21	3	3003	CLA	C4D-C3D-CAD	2.08	110.54	108.10
27	4	4503	NEX	C31-C32-C33	2.08	132.25	126.42
21	A	1128	CLA	C4-C3-C5	2.08	118.76	115.27
21	1	1001	CLA	C3C-C4C-NC	2.08	112.90	110.57
19	G	2011	BCR	C30-C25-C24	2.08	121.65	115.78
19	B	6010	BCR	C36-C18-C17	-2.08	120.02	122.92
21	1	1002	CLA	O1D-CGD-CBD	-2.07	120.24	124.48
21	2	2003	CLA	C3D-C4D-CHA	-2.07	107.98	112.72
21	4	4013	CLA	CHA-C1A-NA	-2.07	121.65	126.40
21	J	6015	CLA	C1-C2-C3	-2.07	122.46	126.04
21	A	9013	CLA	CAC-C3C-C4C	2.07	127.50	124.81
21	A	1131	CLA	O1D-CGD-CBD	-2.07	120.25	124.48
21	2	2011	CLA	CMC-C2C-C3C	2.07	131.74	126.12
21	B	9022	CLA	CHC-C1C-C2C	-2.07	121.00	126.72
21	B	1240	CLA	CAA-CBA-CGA	-2.07	107.20	113.25
21	G	1002	CLA	CHA-C4D-ND	2.07	136.83	132.50
19	L	6019	BCR	C27-C26-C25	-2.07	119.73	122.73
21	3	3017	CLA	O1D-CGD-CBD	-2.07	120.25	124.48
19	G	2011	BCR	C27-C26-C25	-2.07	119.73	122.73
27	4	4503	NEX	C39-C29-C28	2.07	121.33	118.08
26	2	2502	LUT	C10-C11-C12	-2.07	116.77	123.22
21	B	9023	CLA	CHA-C4D-ND	2.07	136.82	132.50
21	A	1133	CLA	CHC-C1C-C2C	-2.06	121.01	126.72
21	4	4001	CLA	C4-C3-C5	2.06	118.74	115.27
21	4	4015	CLA	CHA-C1A-NA	-2.06	121.67	126.40
21	A	1123	CLA	OBD-CAD-C3D	-2.06	123.55	128.52
20	A	7001	LHG	O7-C7-O9	-2.06	118.72	123.70
21	B	1202	CLA	C1-C2-C3	-2.06	122.48	126.04
21	4	4009	CLA	OBD-CAD-C3D	-2.06	123.56	128.52
21	A	1128	CLA	O1D-CGD-CBD	-2.06	120.27	124.48
26	1	1502	LUT	C4-C5-C6	-2.06	116.26	120.85
19	A	6011	BCR	C8-C9-C10	2.06	122.10	118.94
21	A	1131	CLA	C3C-C4C-NC	2.06	112.88	110.57
21	4	4013	CLA	C3C-C4C-NC	2.06	112.88	110.57
21	B	1201	CLA	CAA-C2A-C3A	-2.06	107.14	112.78
21	H	1000	CLA	CHC-C1C-C2C	-2.06	121.03	126.72
21	A	1109	CLA	CHC-C1C-C2C	-2.06	121.03	126.72
21	4	4006	CLA	CHB-C4A-NA	2.06	127.36	124.51
21	1	1011	CLA	CAA-C2A-C1A	-2.06	105.23	111.97
21	B	1213	CLA	C4D-C3D-CAD	2.05	110.52	108.10
21	B	1209	CLA	O1D-CGD-CBD	-2.05	120.28	124.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	1	1502	LUT	C37-C21-C36	2.05	110.92	107.89
21	1	1010	CLA	CGD-CBD-CAD	-2.05	104.08	110.73
21	A	1132	CLA	CMA-C3A-C4A	-2.05	106.26	111.77
21	1	1013	CLA	C4C-C3C-C2C	-2.05	103.91	106.90
21	B	9010	CLA	CHC-C1C-C2C	-2.05	121.05	126.72
21	2	2011	CLA	C4-C3-C2	-2.05	118.42	123.68
21	3	3016	CLA	CED-O2D-CGD	2.05	120.57	115.94
19	B	6004	BCR	C38-C26-C25	-2.05	122.23	124.53
21	3	3009	CLA	CHC-C1C-C2C	-2.05	121.06	126.72
21	A	1112	CLA	CAA-C2A-C3A	-2.05	107.18	112.78
23	A	9011	CL0	CHA-C4D-ND	2.05	136.78	132.50
21	B	1215	CLA	O1D-CGD-CBD	-2.04	120.30	124.48
19	F	6014	BCR	C32-C1-C2	2.04	117.08	108.91
21	A	1107	CLA	C4C-C3C-C2C	-2.04	103.92	106.90
21	B	1231	CLA	CMA-C3A-C4A	-2.04	106.28	111.77
21	B	1238	CLA	CAC-C3C-C4C	2.04	127.46	124.81
21	B	1223	CLA	O1D-CGD-CBD	-2.04	120.31	124.48
24	B	7101	DGD	CAB-C9B-C8B	-2.04	104.06	114.42
24	B	7101	DGD	C5B-C4B-C3B	-2.04	104.06	114.42
21	B	1212	CLA	O1D-CGD-CBD	-2.04	120.31	124.48
21	4	4003	CLA	C11-C10-C8	-2.04	109.32	115.92
21	B	1235	CLA	CAA-C2A-C3A	-2.04	107.19	112.78
21	2	2008	CLA	O1D-CGD-CBD	-2.04	120.31	124.48
21	B	1240	CLA	OBD-CAD-C3D	-2.04	123.62	128.52
21	4	4006	CLA	CAA-C2A-C1A	-2.04	105.31	111.97
21	4	4005	CLA	CMA-C3A-C4A	-2.03	106.30	111.77
21	1	1003	CLA	CHA-C4D-ND	2.03	136.75	132.50
21	2	2010	CLA	C3D-C4D-CHA	-2.03	108.07	112.72
21	2	2009	CLA	C3C-C4C-NC	2.03	112.85	110.57
21	1	1007	CLA	CHA-C4D-ND	2.03	136.75	132.50
21	B	1213	CLA	CMA-C3A-C4A	-2.03	106.31	111.77
21	A	1106	CLA	CMD-C2D-C3D	-2.03	122.94	127.61
21	3	3010	CLA	O1D-CGD-CBD	-2.03	120.33	124.48
21	2	2007	CLA	O1D-CGD-CBD	-2.03	120.33	124.48
21	1	1004	CLA	C1-O2A-CGA	2.03	121.77	116.44
21	3	3009	CLA	OBD-CAD-C3D	-2.03	123.63	128.52
21	A	1131	CLA	CHC-C1C-C2C	-2.03	121.11	126.72
21	B	1206	CLA	CMA-C3A-C4A	-2.03	106.32	111.77
21	B	1213	CLA	C11-C10-C8	-2.03	109.36	115.92
21	A	1117	CLA	CED-O2D-CGD	2.03	120.52	115.94
21	J	6015	CLA	CMC-C2C-C3C	2.03	131.62	126.12
21	B	1239	CLA	CMA-C3A-C4A	-2.03	106.33	111.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	G	2011	BCR	C38-C26-C25	-2.03	122.25	124.53
21	1	1012	CLA	CHC-C1C-C2C	-2.02	121.12	126.72
26	4	4502	LUT	C21-C26-C25	2.02	115.04	111.42
21	2	2011	CLA	C3D-C4D-CHA	-2.02	108.09	112.72
21	G	1001	CLA	CHD-C4C-C3C	-2.02	121.86	124.84
21	3	3005	CLA	O1D-CGD-CBD	-2.02	120.34	124.48
21	B	1240	CLA	CMD-C2D-C3D	-2.02	122.96	127.61
21	G	1002	CLA	CBC-CAC-C3C	-2.02	106.85	112.43
25	G	2021	LMG	O8-C28-C29	2.02	121.20	112.38
21	2	2005	CLA	CHD-C4C-C3C	-2.02	121.87	124.84
18	B	5002	PQN	C2M-C2-C1	2.02	119.62	116.27
21	3	3003	CLA	C1-O2A-CGA	2.02	121.75	116.44
21	A	1135	CLA	O1D-CGD-CBD	-2.02	120.35	124.48
27	4	4503	NEX	O24-C25-C26	-2.02	57.29	58.96
21	A	1103	CLA	C1-O2A-CGA	2.02	121.75	116.44
21	4	4010	CLA	CMC-C2C-C3C	2.02	131.60	126.12
19	A	6017	BCR	C34-C9-C10	-2.02	120.09	122.92
23	A	9011	CL0	CHC-C1C-C2C	-2.02	121.14	126.72
21	3	3004	CLA	O1D-CGD-CBD	-2.02	120.36	124.48
21	4	4014	CLA	CGD-CBD-CAD	-2.02	104.20	110.73
21	2	2013	CLA	C6-C5-C3	-2.02	108.17	113.45
21	4	4015	CLA	C4C-C3C-C2C	-2.02	103.96	106.90
21	B	9023	CLA	CHB-C4A-NA	2.02	127.30	124.51
19	B	6011	BCR	C35-C13-C14	-2.01	120.10	122.92
19	L	6019	BCR	C31-C1-C6	-2.01	107.03	110.30
21	2	2012	CLA	C11-C10-C8	-2.01	109.41	115.92
21	3	3003	CLA	O2D-CGD-O1D	-2.01	119.90	123.84
21	A	1136	CLA	O1D-CGD-CBD	-2.01	120.37	124.48
21	B	1214	CLA	O1D-CGD-CBD	-2.01	120.37	124.48
21	4	4002	CLA	C4C-C3C-C2C	-2.01	103.97	106.90
21	B	1204	CLA	CAC-C3C-C4C	2.01	127.42	124.81
21	2	2007	CLA	CHA-C1A-NA	-2.01	121.79	126.40
21	2	2009	CLA	C1D-CHD-C4C	-2.01	121.72	126.06
21	4	4001	CLA	CHA-C4D-ND	2.01	136.70	132.50
21	B	9023	CLA	CMD-C2D-C3D	-2.01	122.99	127.61
21	4	4002	CLA	CMC-C2C-C3C	2.01	131.57	126.12
21	4	4002	CLA	CED-O2D-CGD	2.01	120.48	115.94
21	4	4012	CLA	C4D-C3D-CAD	2.01	110.46	108.10
21	B	1229	CLA	O1D-CGD-CBD	-2.01	120.38	124.48
19	A	6002	BCR	C31-C1-C6	-2.01	107.04	110.30
21	1	1004	CLA	CMD-C2D-C3D	-2.01	123.00	127.61
19	B	6009	BCR	C38-C26-C27	2.00	117.47	113.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	4	4015	CLA	C4D-C3D-CAD	2.00	110.46	108.10
21	F	1302	CLA	CMD-C2D-C3D	-2.00	123.00	127.61
21	A	9013	CLA	CHD-C4C-C3C	-2.00	121.90	124.84
21	3	3002	CLA	CED-O2D-CGD	2.00	120.47	115.94
21	1	1013	CLA	CMB-C2B-C1B	2.00	131.54	128.46
21	B	1222	CLA	C1-O2A-CGA	2.00	121.70	116.44
24	B	7101	DGD	C7B-C6B-C5B	-2.00	104.26	114.42
21	3	3009	CLA	CHA-C4D-ND	2.00	136.69	132.50
21	3	3011	CLA	C3D-C4D-CHA	-2.00	108.14	112.72
21	2	2009	CLA	C4D-C3D-CAD	2.00	110.45	108.10

All (165) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
21	A	1101	CLA	ND
21	A	1102	CLA	ND
21	A	1103	CLA	ND
21	A	1104	CLA	ND
21	A	1105	CLA	ND
21	A	1106	CLA	ND
21	A	1107	CLA	ND
21	A	1108	CLA	ND
21	A	1109	CLA	ND
21	A	1110	CLA	ND
21	A	1111	CLA	ND
21	A	1112	CLA	ND
21	A	1113	CLA	ND
21	A	1114	CLA	ND
21	A	1115	CLA	ND
21	A	1116	CLA	ND
21	A	1117	CLA	ND
21	A	1118	CLA	ND
21	A	1119	CLA	ND
21	A	1120	CLA	ND
21	A	1121	CLA	ND
21	A	1122	CLA	ND
21	A	1123	CLA	ND
21	A	1124	CLA	ND
21	A	1125	CLA	ND
21	A	1126	CLA	ND
21	A	1127	CLA	ND
21	A	1128	CLA	ND

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Mol	Chain	Res	Type	Atom
21	A	1129	CLA	ND
21	A	1130	CLA	ND
21	A	1131	CLA	ND
21	A	1132	CLA	ND
21	A	1133	CLA	ND
21	A	1134	CLA	ND
21	A	1136	CLA	ND
21	A	1137	CLA	ND
21	A	1138	CLA	ND
21	A	1139	CLA	ND
21	A	1140	CLA	ND
21	A	1141	CLA	ND
21	A	1142	CLA	ND
21	A	1143	CLA	ND
21	A	9012	CLA	ND
21	A	9013	CLA	ND
21	B	1201	CLA	ND
21	B	1202	CLA	ND
21	B	1203	CLA	ND
21	B	1204	CLA	ND
21	B	1205	CLA	ND
21	B	1206	CLA	ND
21	B	1207	CLA	ND
21	B	1208	CLA	ND
21	B	1209	CLA	ND
21	B	1210	CLA	ND
21	B	1211	CLA	ND
21	B	1212	CLA	ND
21	B	1213	CLA	ND
21	B	1214	CLA	ND
21	B	1215	CLA	ND
21	B	1216	CLA	ND
21	B	1217	CLA	ND
21	B	1218	CLA	ND
21	B	1219	CLA	ND
21	B	1220	CLA	ND
21	B	1221	CLA	ND
21	B	1222	CLA	ND
21	B	1223	CLA	ND
21	B	1224	CLA	ND
21	B	1225	CLA	ND
21	B	1226	CLA	ND

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Mol	Chain	Res	Type	Atom
21	B	1227	CLA	ND
21	B	1228	CLA	ND
21	B	1229	CLA	ND
21	B	1230	CLA	ND
21	B	1231	CLA	ND
21	B	1234	CLA	ND
21	B	1235	CLA	ND
21	B	1236	CLA	ND
21	B	1237	CLA	ND
21	B	1238	CLA	ND
21	B	1239	CLA	ND
21	B	1240	CLA	ND
21	B	9010	CLA	ND
21	B	9022	CLA	ND
21	B	9023	CLA	ND
21	F	1301	CLA	ND
21	F	1302	CLA	ND
21	F	1303	CLA	ND
21	G	1001	CLA	ND
21	G	1002	CLA	ND
21	H	1000	CLA	ND
21	J	1302	CLA	ND
21	J	6014	CLA	ND
21	J	6015	CLA	ND
21	L	1501	CLA	ND
21	L	1502	CLA	ND
21	L	1503	CLA	ND
21	1	1001	CLA	ND
21	1	1002	CLA	ND
21	1	1003	CLA	ND
21	1	1004	CLA	ND
21	1	1005	CLA	ND
21	1	1006	CLA	ND
21	1	1007	CLA	ND
21	1	1008	CLA	ND
21	1	1009	CLA	ND
21	1	1010	CLA	ND
21	1	1011	CLA	ND
21	1	1012	CLA	ND
21	1	1013	CLA	ND
21	1	1014	CLA	ND
21	2	2001	CLA	ND

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Mol	Chain	Res	Type	Atom
21	2	2002	CLA	ND
21	2	2003	CLA	ND
21	2	2004	CLA	ND
21	2	2005	CLA	ND
21	2	2006	CLA	ND
21	2	2007	CLA	ND
21	2	2008	CLA	ND
21	2	2009	CLA	ND
21	2	2010	CLA	ND
21	2	2011	CLA	ND
21	2	2012	CLA	ND
21	2	2013	CLA	ND
21	2	2014	CLA	ND
21	3	3001	CLA	ND
21	3	3002	CLA	ND
21	3	3003	CLA	ND
21	3	3004	CLA	ND
21	3	3005	CLA	ND
21	3	3006	CLA	ND
21	3	3008	CLA	ND
21	3	3009	CLA	ND
21	3	3010	CLA	ND
21	3	3011	CLA	ND
21	3	3012	CLA	ND
21	3	3013	CLA	ND
21	3	3016	CLA	ND
21	3	3014	CLA	ND
21	3	3017	CLA	ND
21	3	3015	CLA	ND
21	4	4001	CLA	ND
21	4	4002	CLA	ND
21	4	4003	CLA	ND
21	4	4004	CLA	ND
21	4	4005	CLA	ND
21	4	4006	CLA	ND
21	4	4007	CLA	ND
21	4	4008	CLA	ND
21	4	4009	CLA	ND
21	4	4010	CLA	ND
21	4	4011	CLA	ND
21	4	4012	CLA	ND
21	4	4013	CLA	ND

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Mol	Chain	Res	Type	Atom
21	4	4014	CLA	ND
21	4	4015	CLA	ND
23	A	9011	CL0	ND
23	A	9011	CL0	NC
23	A	9011	CL0	NA
26	1	1501	LUT	C26
26	1	1502	LUT	C26
26	2	2501	LUT	C26
26	2	2502	LUT	C26
26	4	4501	LUT	C26
26	4	4502	LUT	C26

All (2464) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
18	A	5001	PQN	C14-C13-C15-C16
19	A	6002	BCR	C11-C10-C9-C8
19	A	6002	BCR	C11-C10-C9-C34
19	A	6002	BCR	C10-C11-C12-C13
19	A	6002	BCR	C17-C18-C19-C20
19	A	6002	BCR	C36-C18-C19-C20
19	A	6002	BCR	C21-C22-C23-C24
19	A	6002	BCR	C37-C22-C23-C24
19	A	6003	BCR	C7-C8-C9-C34
19	A	6003	BCR	C11-C12-C13-C14
19	A	6003	BCR	C11-C12-C13-C35
19	A	6003	BCR	C17-C18-C19-C20
19	A	6003	BCR	C36-C18-C19-C20
19	A	6003	BCR	C21-C22-C23-C24
19	A	6003	BCR	C37-C22-C23-C24
19	A	6007	BCR	C7-C8-C9-C10
19	A	6007	BCR	C7-C8-C9-C34
19	A	6007	BCR	C11-C10-C9-C8
19	A	6007	BCR	C11-C10-C9-C34
19	A	6007	BCR	C10-C11-C12-C13
19	A	6008	BCR	C7-C8-C9-C10
19	A	6008	BCR	C7-C8-C9-C34
19	A	6008	BCR	C11-C10-C9-C8
19	A	6008	BCR	C11-C10-C9-C34
19	A	6008	BCR	C11-C12-C13-C35
19	A	6008	BCR	C13-C14-C15-C16
19	A	6008	BCR	C17-C18-C19-C20

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Mol	Chain	Res	Type	Atoms
19	A	6008	BCR	C36-C18-C19-C20
19	A	6011	BCR	C11-C10-C9-C8
19	A	6011	BCR	C11-C10-C9-C34
19	A	6011	BCR	C10-C11-C12-C13
19	A	6011	BCR	C21-C22-C23-C24
19	A	6011	BCR	C37-C22-C23-C24
19	A	6017	BCR	C10-C11-C12-C13
19	A	6017	BCR	C21-C22-C23-C24
19	A	6017	BCR	C37-C22-C23-C24
19	B	6004	BCR	C7-C8-C9-C10
19	B	6004	BCR	C7-C8-C9-C34
19	B	6004	BCR	C11-C10-C9-C8
19	B	6004	BCR	C11-C10-C9-C34
19	B	6004	BCR	C10-C11-C12-C13
19	B	6004	BCR	C21-C22-C23-C24
19	B	6004	BCR	C37-C22-C23-C24
19	B	6005	BCR	C5-C6-C7-C8
19	B	6005	BCR	C11-C10-C9-C8
19	B	6005	BCR	C11-C10-C9-C34
19	B	6005	BCR	C10-C11-C12-C13
19	B	6005	BCR	C23-C24-C25-C26
19	B	6009	BCR	C1-C6-C7-C8
19	B	6009	BCR	C5-C6-C7-C8
19	B	6009	BCR	C7-C8-C9-C10
19	B	6009	BCR	C7-C8-C9-C34
19	B	6009	BCR	C10-C11-C12-C13
19	B	6010	BCR	C11-C10-C9-C8
19	B	6010	BCR	C11-C10-C9-C34
19	B	6010	BCR	C21-C22-C23-C24
19	B	6010	BCR	C37-C22-C23-C24
19	B	6010	BCR	C23-C24-C25-C26
19	B	6011	BCR	C1-C6-C7-C8
19	B	6011	BCR	C7-C8-C9-C10
19	B	6011	BCR	C7-C8-C9-C34
19	B	6011	BCR	C10-C11-C12-C13
19	F	6014	BCR	C7-C8-C9-C10
19	F	6014	BCR	C7-C8-C9-C34
19	F	6014	BCR	C11-C10-C9-C8
19	F	6014	BCR	C11-C10-C9-C34
19	F	6014	BCR	C17-C18-C19-C20
19	F	6014	BCR	C36-C18-C19-C20
19	F	6014	BCR	C37-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
19	F	6016	BCR	C7-C8-C9-C10
19	F	6016	BCR	C7-C8-C9-C34
19	F	6016	BCR	C11-C10-C9-C8
19	F	6016	BCR	C11-C10-C9-C34
19	F	6016	BCR	C17-C18-C19-C20
19	F	6016	BCR	C36-C18-C19-C20
19	G	2011	BCR	C1-C6-C7-C8
19	G	2011	BCR	C7-C8-C9-C10
19	G	2011	BCR	C7-C8-C9-C34
19	G	2011	BCR	C10-C11-C12-C13
19	G	2011	BCR	C11-C12-C13-C14
19	G	2011	BCR	C11-C12-C13-C35
19	G	2011	BCR	C21-C22-C23-C24
19	I	6018	BCR	C7-C8-C9-C10
19	I	6018	BCR	C10-C11-C12-C13
19	I	6018	BCR	C23-C24-C25-C26
19	I	6020	BCR	C7-C8-C9-C10
19	I	6020	BCR	C7-C8-C9-C34
19	I	6020	BCR	C11-C10-C9-C8
19	I	6020	BCR	C11-C10-C9-C34
19	I	6020	BCR	C10-C11-C12-C13
19	J	6012	BCR	C7-C8-C9-C10
19	J	6012	BCR	C7-C8-C9-C34
19	J	6012	BCR	C11-C10-C9-C8
19	J	6012	BCR	C11-C10-C9-C34
19	J	6012	BCR	C9-C10-C11-C12
19	J	6012	BCR	C10-C11-C12-C13
19	J	6012	BCR	C11-C12-C13-C14
19	J	6012	BCR	C11-C12-C13-C35
19	J	6012	BCR	C37-C22-C23-C24
19	J	6012	BCR	C23-C24-C25-C26
19	J	6013	BCR	C7-C8-C9-C34
19	J	6013	BCR	C11-C10-C9-C8
19	J	6013	BCR	C11-C10-C9-C34
19	J	6013	BCR	C23-C24-C25-C30
19	L	6019	BCR	C7-C8-C9-C10
19	L	6019	BCR	C7-C8-C9-C34
19	L	6019	BCR	C11-C10-C9-C8
19	L	6019	BCR	C11-C10-C9-C34
19	L	6019	BCR	C10-C11-C12-C13
19	L	6020	BCR	C7-C8-C9-C10
19	L	6020	BCR	C7-C8-C9-C34

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Mol	Chain	Res	Type	Atoms
19	L	6020	BCR	C11-C10-C9-C34
19	L	6020	BCR	C10-C11-C12-C13
19	L	6020	BCR	C11-C12-C13-C14
19	L	6020	BCR	C11-C12-C13-C35
19	L	6020	BCR	C21-C22-C23-C24
19	L	6020	BCR	C37-C22-C23-C24
20	A	7001	LHG	O1-C1-C2-C3
20	A	7001	LHG	O2-C2-C3-O3
20	A	7003	LHG	O1-C1-C2-O2
20	A	7003	LHG	C3-O3-P-O5
20	B	7004	LHG	O1-C1-C2-C3
20	B	7004	LHG	C4-O6-P-O4
20	B	7004	LHG	O7-C5-C6-O8
20	1	1801	LHG	O1-C1-C2-C3
20	1	1801	LHG	C1-C2-C3-O3
20	1	1801	LHG	C3-O3-P-O4
20	1	1801	LHG	C3-O3-P-O5
20	1	1801	LHG	C3-O3-P-O6
20	2	2801	LHG	C4-O6-P-O5
20	2	2801	LHG	O9-C7-O7-C5
20	2	2801	LHG	C8-C7-O7-C5
21	A	1101	CLA	C2-C1-O2A-CGA
21	A	1101	CLA	C2-C3-C5-C6
21	A	1101	CLA	C4-C3-C5-C6
21	A	1102	CLA	C1A-C2A-CAA-CBA
21	A	1102	CLA	C3A-C2A-CAA-CBA
21	A	1103	CLA	C2-C1-O2A-CGA
21	A	1103	CLA	CAD-CBD-CGD-O1D
21	A	1103	CLA	CAD-CBD-CGD-O2D
21	A	1105	CLA	C1A-C2A-CAA-CBA
21	A	1105	CLA	C4-C3-C5-C6
21	A	1106	CLA	C3A-C2A-CAA-CBA
21	A	1106	CLA	CHA-CBD-CGD-O1D
21	A	1106	CLA	CHA-CBD-CGD-O2D
21	A	1107	CLA	C1A-C2A-CAA-CBA
21	A	1107	CLA	C2-C3-C5-C6
21	A	1107	CLA	C4-C3-C5-C6
21	A	1109	CLA	C2A-CAA-CBA-CGA
21	A	1109	CLA	C2-C1-O2A-CGA
21	A	1110	CLA	C1A-C2A-CAA-CBA
21	A	1110	CLA	C3A-C2A-CAA-CBA
21	A	1111	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
21	A	1111	CLA	CHA-CBD-CGD-O1D
21	A	1111	CLA	CHA-CBD-CGD-O2D
21	A	1111	CLA	CAD-CBD-CGD-O1D
21	A	1113	CLA	CHA-CBD-CGD-O1D
21	A	1113	CLA	CHA-CBD-CGD-O2D
21	A	1113	CLA	CAD-CBD-CGD-O1D
21	A	1113	CLA	CAD-CBD-CGD-O2D
21	A	1113	CLA	CBD-CGD-O2D-CED
21	A	1114	CLA	CBD-CGD-O2D-CED
21	A	1115	CLA	CBA-CGA-O2A-C1
21	A	1116	CLA	C3A-C2A-CAA-CBA
21	A	1116	CLA	CBD-CGD-O2D-CED
21	A	1116	CLA	C2-C3-C5-C6
21	A	1116	CLA	C4-C3-C5-C6
21	A	1117	CLA	C3A-C2A-CAA-CBA
21	A	1117	CLA	CBD-CGD-O2D-CED
21	A	1118	CLA	CBA-CGA-O2A-C1
21	A	1119	CLA	C1A-C2A-CAA-CBA
21	A	1119	CLA	C3A-C2A-CAA-CBA
21	A	1119	CLA	CHA-CBD-CGD-O1D
21	A	1119	CLA	CHA-CBD-CGD-O2D
21	A	1121	CLA	CBA-CGA-O2A-C1
21	A	1121	CLA	O1A-CGA-O2A-C1
21	A	1121	CLA	CHA-CBD-CGD-O2D
21	A	1122	CLA	CBA-CGA-O2A-C1
21	A	1122	CLA	CHA-CBD-CGD-O1D
21	A	1122	CLA	CAD-CBD-CGD-O1D
21	A	1122	CLA	CAD-CBD-CGD-O2D
21	A	1123	CLA	C2-C1-O2A-CGA
21	A	1124	CLA	CBD-CGD-O2D-CED
21	A	1125	CLA	CHA-CBD-CGD-O1D
21	A	1125	CLA	CHA-CBD-CGD-O2D
21	A	1126	CLA	C14-C13-C15-C16
21	A	1128	CLA	C1A-C2A-CAA-CBA
21	A	1128	CLA	C3A-C2A-CAA-CBA
21	A	1128	CLA	CBD-CGD-O2D-CED
21	A	1129	CLA	CHA-CBD-CGD-O2D
21	A	1130	CLA	CBA-CGA-O2A-C1
21	A	1130	CLA	CBD-CGD-O2D-CED
21	A	1131	CLA	CBD-CGD-O2D-CED
21	A	1134	CLA	CHA-CBD-CGD-O1D
21	A	1136	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
21	A	1136	CLA	C14-C13-C15-C16
21	A	1139	CLA	CBD-CGD-O2D-CED
21	A	1140	CLA	C4-C3-C5-C6
21	A	1141	CLA	C2-C1-O2A-CGA
21	A	1141	CLA	CHA-CBD-CGD-O1D
21	A	1141	CLA	CHA-CBD-CGD-O2D
21	A	1141	CLA	C2-C3-C5-C6
21	A	1141	CLA	C4-C3-C5-C6
21	A	1143	CLA	CBD-CGD-O2D-CED
21	A	9012	CLA	C2-C1-O2A-CGA
21	A	9013	CLA	CBA-CGA-O2A-C1
21	A	9013	CLA	O1A-CGA-O2A-C1
21	A	9013	CLA	O2A-C1-C2-C3
21	B	1202	CLA	C1A-C2A-CAA-CBA
21	B	1202	CLA	C2-C1-O2A-CGA
21	B	1202	CLA	CHA-CBD-CGD-O1D
21	B	1202	CLA	CHA-CBD-CGD-O2D
21	B	1202	CLA	CAD-CBD-CGD-O1D
21	B	1203	CLA	C2-C3-C5-C6
21	B	1203	CLA	C4-C3-C5-C6
21	B	1204	CLA	C2-C3-C5-C6
21	B	1204	CLA	C4-C3-C5-C6
21	B	1205	CLA	CHA-CBD-CGD-O1D
21	B	1205	CLA	CHA-CBD-CGD-O2D
21	B	1206	CLA	C1A-C2A-CAA-CBA
21	B	1206	CLA	C3A-C2A-CAA-CBA
21	B	1206	CLA	C2A-CAA-CBA-CGA
21	B	1206	CLA	C2-C1-O2A-CGA
21	B	1206	CLA	CBD-CGD-O2D-CED
21	B	1207	CLA	CHA-CBD-CGD-O1D
21	B	1207	CLA	CAD-CBD-CGD-O1D
21	B	1207	CLA	CAD-CBD-CGD-O2D
21	B	1207	CLA	C2-C3-C5-C6
21	B	1207	CLA	C4-C3-C5-C6
21	B	1208	CLA	C3A-C2A-CAA-CBA
21	B	1208	CLA	C2A-CAA-CBA-CGA
21	B	1208	CLA	CBD-CGD-O2D-CED
21	B	1208	CLA	C2-C3-C5-C6
21	B	1208	CLA	C4-C3-C5-C6
21	B	1209	CLA	C1A-C2A-CAA-CBA
21	B	1210	CLA	C1A-C2A-CAA-CBA
21	B	1210	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
21	B	1210	CLA	CHA-CBD-CGD-O1D
21	B	1211	CLA	CBD-CGD-O2D-CED
21	B	1212	CLA	CBD-CGD-O2D-CED
21	B	1214	CLA	C1A-C2A-CAA-CBA
21	B	1215	CLA	C3A-C2A-CAA-CBA
21	B	1215	CLA	CBD-CGD-O2D-CED
21	B	1215	CLA	C2-C3-C5-C6
21	B	1215	CLA	C4-C3-C5-C6
21	B	1217	CLA	CBA-CGA-O2A-C1
21	B	1217	CLA	CBD-CGD-O2D-CED
21	B	1218	CLA	CHA-CBD-CGD-O1D
21	B	1218	CLA	CHA-CBD-CGD-O2D
21	B	1219	CLA	CBD-CGD-O2D-CED
21	B	1220	CLA	CHA-CBD-CGD-O1D
21	B	1220	CLA	CHA-CBD-CGD-O2D
21	B	1220	CLA	CBD-CGD-O2D-CED
21	B	1220	CLA	C6-C7-C8-C9
21	B	1221	CLA	CHA-CBD-CGD-O1D
21	B	1221	CLA	CHA-CBD-CGD-O2D
21	B	1223	CLA	C2-C3-C5-C6
21	B	1223	CLA	C4-C3-C5-C6
21	B	1224	CLA	C3A-C2A-CAA-CBA
21	B	1224	CLA	CBD-CGD-O2D-CED
21	B	1225	CLA	C1A-C2A-CAA-CBA
21	B	1225	CLA	C3A-C2A-CAA-CBA
21	B	1225	CLA	CHA-CBD-CGD-O1D
21	B	1225	CLA	CHA-CBD-CGD-O2D
21	B	1225	CLA	C2-C3-C5-C6
21	B	1225	CLA	C4-C3-C5-C6
21	B	1226	CLA	CBD-CGD-O2D-CED
21	B	1226	CLA	C4-C3-C5-C6
21	B	1227	CLA	C1A-C2A-CAA-CBA
21	B	1227	CLA	CHA-CBD-CGD-O1D
21	B	1228	CLA	CBD-CGD-O2D-CED
21	B	1229	CLA	C3A-C2A-CAA-CBA
21	B	1229	CLA	C2-C1-O2A-CGA
21	B	1230	CLA	CHA-CBD-CGD-O1D
21	B	1230	CLA	CHA-CBD-CGD-O2D
21	B	1230	CLA	C4-C3-C5-C6
21	B	1231	CLA	CBD-CGD-O2D-CED
21	B	1234	CLA	CBD-CGD-O2D-CED
21	B	1237	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	B	1237	CLA	C2-C3-C5-C6
21	B	1237	CLA	C4-C3-C5-C6
21	B	1238	CLA	C2-C1-O2A-CGA
21	B	1238	CLA	CBD-CGD-O2D-CED
21	B	1239	CLA	C3A-C2A-CAA-CBA
21	B	1239	CLA	C2-C1-O2A-CGA
21	B	1239	CLA	C2-C3-C5-C6
21	B	1239	CLA	C4-C3-C5-C6
21	B	1240	CLA	CHA-CBD-CGD-O1D
21	B	1240	CLA	CHA-CBD-CGD-O2D
21	B	1240	CLA	C2-C3-C5-C6
21	B	1240	CLA	C4-C3-C5-C6
21	B	9010	CLA	C4C-C3C-CAC-CBC
21	B	9010	CLA	CHA-CBD-CGD-O1D
21	B	9010	CLA	CHA-CBD-CGD-O2D
21	B	9010	CLA	CBD-CGD-O2D-CED
21	B	9023	CLA	CHA-CBD-CGD-O1D
21	B	9023	CLA	CHA-CBD-CGD-O2D
21	B	9023	CLA	CBD-CGD-O2D-CED
21	F	1302	CLA	CBA-CGA-O2A-C1
21	F	1303	CLA	C1A-C2A-CAA-CBA
21	F	1303	CLA	CHA-CBD-CGD-O1D
21	F	1303	CLA	CHA-CBD-CGD-O2D
21	F	1303	CLA	CBD-CGD-O2D-CED
21	G	1001	CLA	C2-C3-C5-C6
21	G	1001	CLA	C4-C3-C5-C6
21	G	1002	CLA	C1A-C2A-CAA-CBA
21	G	1002	CLA	CAD-CBD-CGD-O1D
21	H	1000	CLA	C1A-C2A-CAA-CBA
21	H	1000	CLA	C3A-C2A-CAA-CBA
21	J	1302	CLA	C1A-C2A-CAA-CBA
21	J	1302	CLA	C3A-C2A-CAA-CBA
21	J	6014	CLA	CBD-CGD-O2D-CED
21	J	6014	CLA	C6-C7-C8-C9
21	J	6015	CLA	CBA-CGA-O2A-C1
21	J	6015	CLA	O1A-CGA-O2A-C1
21	J	6015	CLA	CBD-CGD-O2D-CED
21	L	1501	CLA	C1A-C2A-CAA-CBA
21	L	1501	CLA	CBD-CGD-O2D-CED
21	L	1502	CLA	CHA-CBD-CGD-O1D
21	L	1503	CLA	C1A-C2A-CAA-CBA
21	L	1503	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	1	1001	CLA	C4-C3-C5-C6
21	1	1002	CLA	CBD-CGD-O2D-CED
21	1	1002	CLA	C2-C3-C5-C6
21	1	1002	CLA	C4-C3-C5-C6
21	1	1003	CLA	CHA-CBD-CGD-O1D
21	1	1003	CLA	CHA-CBD-CGD-O2D
21	1	1003	CLA	C2-C3-C5-C6
21	1	1003	CLA	C4-C3-C5-C6
21	1	1004	CLA	C3A-C2A-CAA-CBA
21	1	1005	CLA	CBD-CGD-O2D-CED
21	1	1006	CLA	CHA-CBD-CGD-O1D
21	1	1006	CLA	CHA-CBD-CGD-O2D
21	1	1006	CLA	CAD-CBD-CGD-O1D
21	1	1008	CLA	CHA-CBD-CGD-O1D
21	1	1008	CLA	CHA-CBD-CGD-O2D
21	1	1008	CLA	CAD-CBD-CGD-O1D
21	1	1008	CLA	CAD-CBD-CGD-O2D
21	1	1008	CLA	CBD-CGD-O2D-CED
21	1	1009	CLA	C1A-C2A-CAA-CBA
21	1	1009	CLA	C3A-C2A-CAA-CBA
21	1	1009	CLA	CBA-CGA-O2A-C1
21	1	1010	CLA	C2-C1-O2A-CGA
21	1	1010	CLA	CBD-CGD-O2D-CED
21	1	1013	CLA	C1A-C2A-CAA-CBA
21	1	1013	CLA	CBA-CGA-O2A-C1
21	1	1013	CLA	O1A-CGA-O2A-C1
21	1	1013	CLA	CBD-CGD-O2D-CED
21	1	1014	CLA	CHA-CBD-CGD-O1D
21	1	1014	CLA	CHA-CBD-CGD-O2D
21	2	2002	CLA	C2-C1-O2A-CGA
21	2	2002	CLA	CBD-CGD-O2D-CED
21	2	2002	CLA	O1D-CGD-O2D-CED
21	2	2003	CLA	C3A-C2A-CAA-CBA
21	2	2003	CLA	C2C-C3C-CAC-CBC
21	2	2003	CLA	C4C-C3C-CAC-CBC
21	2	2006	CLA	C2-C1-O2A-CGA
21	2	2006	CLA	CBD-CGD-O2D-CED
21	2	2006	CLA	C2-C3-C5-C6
21	2	2006	CLA	C4-C3-C5-C6
21	2	2007	CLA	CBD-CGD-O2D-CED
21	2	2008	CLA	C3A-C2A-CAA-CBA
21	2	2008	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	2	2008	CLA	C2-C3-C5-C6
21	2	2008	CLA	C4-C3-C5-C6
21	2	2009	CLA	CBD-CGD-O2D-CED
21	2	2010	CLA	CAD-CBD-CGD-O1D
21	2	2010	CLA	CAD-CBD-CGD-O2D
21	2	2010	CLA	CBD-CGD-O2D-CED
21	2	2011	CLA	C3A-C2A-CAA-CBA
21	2	2011	CLA	C2-C1-O2A-CGA
21	2	2012	CLA	CBD-CGD-O2D-CED
21	2	2013	CLA	CAD-CBD-CGD-O1D
21	2	2013	CLA	CAD-CBD-CGD-O2D
21	2	2014	CLA	CBD-CGD-O2D-CED
21	3	3001	CLA	C1A-C2A-CAA-CBA
21	3	3001	CLA	C3A-C2A-CAA-CBA
21	3	3002	CLA	C2-C1-O2A-CGA
21	3	3003	CLA	CBA-CGA-O2A-C1
21	3	3003	CLA	O1A-CGA-O2A-C1
21	3	3003	CLA	CHA-CBD-CGD-O1D
21	3	3003	CLA	CHA-CBD-CGD-O2D
21	3	3003	CLA	CBD-CGD-O2D-CED
21	3	3003	CLA	C2-C3-C5-C6
21	3	3003	CLA	C4-C3-C5-C6
21	3	3004	CLA	CHA-CBD-CGD-O1D
21	3	3004	CLA	CBD-CGD-O2D-CED
21	3	3005	CLA	C2A-CAA-CBA-CGA
21	3	3005	CLA	CHA-CBD-CGD-O1D
21	3	3005	CLA	CHA-CBD-CGD-O2D
21	3	3006	CLA	C2-C1-O2A-CGA
21	3	3006	CLA	CBD-CGD-O2D-CED
21	3	3008	CLA	C1A-C2A-CAA-CBA
21	3	3008	CLA	C3A-C2A-CAA-CBA
21	3	3008	CLA	CBD-CGD-O2D-CED
21	3	3009	CLA	C1A-C2A-CAA-CBA
21	3	3009	CLA	CBD-CGD-O2D-CED
21	3	3010	CLA	C1A-C2A-CAA-CBA
21	3	3010	CLA	CBA-CGA-O2A-C1
21	3	3010	CLA	O1A-CGA-O2A-C1
21	3	3010	CLA	CBD-CGD-O2D-CED
21	3	3011	CLA	C1A-C2A-CAA-CBA
21	3	3012	CLA	C1A-C2A-CAA-CBA
21	3	3012	CLA	CBD-CGD-O2D-CED
21	3	3017	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
21	3	3017	CLA	CHA-CBD-CGD-O2D
21	3	3017	CLA	CBD-CGD-O2D-CED
21	3	3015	CLA	CBD-CGD-O2D-CED
21	4	4001	CLA	CBA-CGA-O2A-C1
21	4	4001	CLA	O1A-CGA-O2A-C1
21	4	4001	CLA	CBD-CGD-O2D-CED
21	4	4002	CLA	CHA-CBD-CGD-O1D
21	4	4002	CLA	CHA-CBD-CGD-O2D
21	4	4003	CLA	C1A-C2A-CAA-CBA
21	4	4003	CLA	C3A-C2A-CAA-CBA
21	4	4004	CLA	C4-C3-C5-C6
21	4	4004	CLA	C11-C12-C13-C14
21	4	4007	CLA	CBD-CGD-O2D-CED
21	4	4007	CLA	C4-C3-C5-C6
21	4	4008	CLA	CAD-CBD-CGD-O1D
21	4	4008	CLA	CAD-CBD-CGD-O2D
21	4	4008	CLA	CBD-CGD-O2D-CED
21	4	4009	CLA	C2-C1-O2A-CGA
21	4	4010	CLA	C2-C1-O2A-CGA
21	4	4011	CLA	C1A-C2A-CAA-CBA
21	4	4011	CLA	C3A-C2A-CAA-CBA
21	4	4012	CLA	C3A-C2A-CAA-CBA
21	4	4012	CLA	CBD-CGD-O2D-CED
21	4	4012	CLA	O1D-CGD-O2D-CED
21	4	4013	CLA	C1A-C2A-CAA-CBA
21	4	4014	CLA	C3A-C2A-CAA-CBA
24	B	7101	DGD	O6D-C1D-O3G-C3G
25	G	2021	LMG	O6-C1-O1-C7
25	G	2021	LMG	O1-C7-C8-O7
25	G	2021	LMG	O9-C10-O7-C8
25	G	2021	LMG	C11-C10-O7-C8
26	1	1501	LUT	C7-C8-C9-C10
26	1	1501	LUT	C7-C8-C9-C19
26	1	1501	LUT	C21-C26-C27-C28
26	1	1501	LUT	C27-C28-C29-C30
26	1	1501	LUT	C27-C28-C29-C39
26	1	1502	LUT	C7-C8-C9-C19
26	1	1502	LUT	C11-C12-C13-C20
26	1	1502	LUT	C21-C26-C27-C28
26	1	1502	LUT	C27-C28-C29-C30
26	1	1502	LUT	C27-C28-C29-C39
26	1	1502	LUT	C31-C32-C33-C40

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Mol	Chain	Res	Type	Atoms
26	2	2501	LUT	C1-C6-C7-C8
26	2	2501	LUT	C5-C6-C7-C8
26	2	2501	LUT	C7-C8-C9-C10
26	2	2501	LUT	C7-C8-C9-C19
26	2	2501	LUT	C11-C12-C13-C14
26	2	2501	LUT	C11-C12-C13-C20
26	2	2501	LUT	C21-C26-C27-C28
26	2	2502	LUT	C21-C26-C27-C28
26	4	4501	LUT	C11-C12-C13-C14
26	4	4501	LUT	C11-C12-C13-C20
26	4	4501	LUT	C21-C26-C27-C28
26	4	4501	LUT	C31-C32-C33-C40
26	4	4501	LUT	C33-C34-C35-C15
26	4	4502	LUT	C21-C26-C27-C28
27	4	4503	NEX	C11-C10-C9-C8
27	4	4503	NEX	C11-C10-C9-C19
27	4	4503	NEX	C9-C10-C11-C12
27	4	4503	NEX	C10-C11-C12-C13
27	4	4503	NEX	C14-C15-C35-C34
27	4	4503	NEX	O24-C26-C27-C28
27	4	4503	NEX	C28-C29-C30-C31
27	4	4503	NEX	C39-C29-C30-C31
27	4	4503	NEX	C32-C33-C34-C35
27	4	4503	NEX	C40-C33-C34-C35
28	4	4505	G3P	O1-C1-C2-C3
28	4	4505	G3P	C3-O1P-P-O4P
28	4	4505	G3P	C3-O1P-P-O2P
28	4	4505	G3P	C3-O1P-P-O3P
21	B	1210	CLA	C4C-C3C-CAC-CBC
21	B	9010	CLA	C2C-C3C-CAC-CBC
21	1	1009	CLA	C4C-C3C-CAC-CBC
21	3	3011	CLA	C2C-C3C-CAC-CBC
21	A	1126	CLA	O1D-CGD-O2D-CED
21	B	1203	CLA	O1D-CGD-O2D-CED
21	B	1210	CLA	O1D-CGD-O2D-CED
21	B	1219	CLA	O1D-CGD-O2D-CED
21	B	9023	CLA	O1D-CGD-O2D-CED
21	F	1302	CLA	O1D-CGD-O2D-CED
21	2	2007	CLA	O1D-CGD-O2D-CED
21	2	2010	CLA	O1D-CGD-O2D-CED
21	2	2012	CLA	O1D-CGD-O2D-CED
21	3	3009	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	B	1210	CLA	C2C-C3C-CAC-CBC
21	1	1013	CLA	C2C-C3C-CAC-CBC
21	2	2013	CLA	C2C-C3C-CAC-CBC
21	2	2013	CLA	C4C-C3C-CAC-CBC
21	4	4007	CLA	C2C-C3C-CAC-CBC
21	4	4015	CLA	C2C-C3C-CAC-CBC
21	4	4015	CLA	C4C-C3C-CAC-CBC
21	A	1137	CLA	O1D-CGD-O2D-CED
21	A	1138	CLA	O1D-CGD-O2D-CED
21	A	1139	CLA	O1D-CGD-O2D-CED
21	A	1142	CLA	O1D-CGD-O2D-CED
21	B	1208	CLA	O1D-CGD-O2D-CED
21	B	1213	CLA	O1D-CGD-O2D-CED
21	B	9010	CLA	O1D-CGD-O2D-CED
21	F	1303	CLA	O1D-CGD-O2D-CED
21	1	1002	CLA	O1D-CGD-O2D-CED
21	1	1010	CLA	O1D-CGD-O2D-CED
21	1	1012	CLA	O1D-CGD-O2D-CED
21	2	2009	CLA	O1D-CGD-O2D-CED
21	3	3003	CLA	O1D-CGD-O2D-CED
21	3	3010	CLA	O1D-CGD-O2D-CED
21	4	4007	CLA	O1D-CGD-O2D-CED
21	A	1104	CLA	CBD-CGD-O2D-CED
21	A	1105	CLA	CBD-CGD-O2D-CED
21	A	1106	CLA	CBD-CGD-O2D-CED
21	A	1107	CLA	CBD-CGD-O2D-CED
21	A	1108	CLA	CBD-CGD-O2D-CED
21	A	1109	CLA	CBD-CGD-O2D-CED
21	A	1110	CLA	CBD-CGD-O2D-CED
21	A	1111	CLA	CBD-CGD-O2D-CED
21	A	1112	CLA	CBD-CGD-O2D-CED
21	A	1115	CLA	CBD-CGD-O2D-CED
21	A	1119	CLA	CBD-CGD-O2D-CED
21	A	1120	CLA	CBD-CGD-O2D-CED
21	A	1121	CLA	CBD-CGD-O2D-CED
21	A	1126	CLA	CBD-CGD-O2D-CED
21	A	1127	CLA	CBD-CGD-O2D-CED
21	A	1133	CLA	CBD-CGD-O2D-CED
21	A	1134	CLA	CBD-CGD-O2D-CED
21	A	1135	CLA	CBD-CGD-O2D-CED
21	A	1137	CLA	CBD-CGD-O2D-CED
21	A	1138	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	A	1140	CLA	CBD-CGD-O2D-CED
21	A	1142	CLA	CBD-CGD-O2D-CED
21	B	1201	CLA	CBD-CGD-O2D-CED
21	B	1202	CLA	CBD-CGD-O2D-CED
21	B	1203	CLA	CBD-CGD-O2D-CED
21	B	1204	CLA	CBD-CGD-O2D-CED
21	B	1205	CLA	CBD-CGD-O2D-CED
21	B	1209	CLA	CBD-CGD-O2D-CED
21	B	1210	CLA	CBD-CGD-O2D-CED
21	B	1213	CLA	CBD-CGD-O2D-CED
21	B	1214	CLA	CBD-CGD-O2D-CED
21	B	1229	CLA	CBD-CGD-O2D-CED
21	B	1230	CLA	CBD-CGD-O2D-CED
21	B	1236	CLA	CBD-CGD-O2D-CED
21	F	1301	CLA	CBD-CGD-O2D-CED
21	F	1302	CLA	CBD-CGD-O2D-CED
21	J	1302	CLA	CBD-CGD-O2D-CED
21	1	1001	CLA	CBD-CGD-O2D-CED
21	1	1004	CLA	CBD-CGD-O2D-CED
21	1	1009	CLA	CBD-CGD-O2D-CED
21	1	1012	CLA	CBD-CGD-O2D-CED
21	2	2005	CLA	CBD-CGD-O2D-CED
21	2	2011	CLA	CBD-CGD-O2D-CED
21	3	3011	CLA	CBD-CGD-O2D-CED
21	3	3014	CLA	CBD-CGD-O2D-CED
21	4	4003	CLA	CBD-CGD-O2D-CED
21	4	4010	CLA	CBD-CGD-O2D-CED
21	4	4011	CLA	CBD-CGD-O2D-CED
21	4	4014	CLA	CBD-CGD-O2D-CED
20	1	1801	LHG	O10-C23-O8-C6
21	A	1115	CLA	O1A-CGA-O2A-C1
21	A	1122	CLA	O1A-CGA-O2A-C1
21	A	1125	CLA	O1A-CGA-O2A-C1
21	B	1207	CLA	O1A-CGA-O2A-C1
21	J	6014	CLA	O1A-CGA-O2A-C1
21	1	1002	CLA	O1A-CGA-O2A-C1
21	1	1009	CLA	O1A-CGA-O2A-C1
21	1	1010	CLA	O1A-CGA-O2A-C1
21	1	1011	CLA	O1A-CGA-O2A-C1
21	2	2004	CLA	O1A-CGA-O2A-C1
21	2	2008	CLA	O1A-CGA-O2A-C1
21	4	4006	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	4	4013	CLA	O1A-CGA-O2A-C1
21	A	1133	CLA	O1A-CGA-O2A-C1
21	A	1134	CLA	O1A-CGA-O2A-C1
21	F	1302	CLA	O1A-CGA-O2A-C1
21	B	1239	CLA	C2C-C3C-CAC-CBC
21	B	1239	CLA	C4C-C3C-CAC-CBC
21	F	1303	CLA	C2C-C3C-CAC-CBC
21	G	1001	CLA	C2C-C3C-CAC-CBC
21	1	1009	CLA	C2C-C3C-CAC-CBC
21	1	1014	CLA	C2C-C3C-CAC-CBC
21	3	3011	CLA	C4C-C3C-CAC-CBC
21	3	3013	CLA	C2C-C3C-CAC-CBC
21	4	4008	CLA	C4C-C3C-CAC-CBC
21	4	4012	CLA	C4C-C3C-CAC-CBC
21	A	1109	CLA	O1D-CGD-O2D-CED
21	A	1115	CLA	O1D-CGD-O2D-CED
21	A	1119	CLA	O1D-CGD-O2D-CED
21	A	1120	CLA	O1D-CGD-O2D-CED
21	B	1231	CLA	O1D-CGD-O2D-CED
21	F	1301	CLA	O1D-CGD-O2D-CED
21	1	1005	CLA	O1D-CGD-O2D-CED
21	2	2005	CLA	O1D-CGD-O2D-CED
21	2	2014	CLA	O1D-CGD-O2D-CED
21	3	3004	CLA	O1D-CGD-O2D-CED
21	3	3012	CLA	O1D-CGD-O2D-CED
21	3	3014	CLA	O1D-CGD-O2D-CED
21	4	4008	CLA	O1D-CGD-O2D-CED
21	4	4011	CLA	O1D-CGD-O2D-CED
21	A	1133	CLA	CBA-CGA-O2A-C1
21	1	1002	CLA	C4C-C3C-CAC-CBC
21	2	2002	CLA	C4C-C3C-CAC-CBC
21	4	4008	CLA	C2C-C3C-CAC-CBC
21	4	4012	CLA	C2C-C3C-CAC-CBC
21	A	1117	CLA	O1D-CGD-O2D-CED
21	A	1128	CLA	O1D-CGD-O2D-CED
21	A	1130	CLA	O1D-CGD-O2D-CED
21	A	1143	CLA	O1D-CGD-O2D-CED
21	B	1215	CLA	O1D-CGD-O2D-CED
21	B	1226	CLA	O1D-CGD-O2D-CED
21	B	1228	CLA	O1D-CGD-O2D-CED
21	B	1237	CLA	O1D-CGD-O2D-CED
21	B	1238	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	L	1503	CLA	O1D-CGD-O2D-CED
21	1	1013	CLA	O1D-CGD-O2D-CED
21	3	3006	CLA	O1D-CGD-O2D-CED
21	3	3008	CLA	O1D-CGD-O2D-CED
21	4	4010	CLA	O1D-CGD-O2D-CED
20	1	1801	LHG	C24-C23-O8-C6
21	A	1125	CLA	CBA-CGA-O2A-C1
21	B	1207	CLA	CBA-CGA-O2A-C1
21	J	6014	CLA	CBA-CGA-O2A-C1
21	1	1002	CLA	CBA-CGA-O2A-C1
21	1	1010	CLA	CBA-CGA-O2A-C1
21	1	1011	CLA	CBA-CGA-O2A-C1
21	2	2004	CLA	CBA-CGA-O2A-C1
21	4	4006	CLA	CBA-CGA-O2A-C1
21	A	1103	CLA	CBD-CGD-O2D-CED
21	A	1125	CLA	CBD-CGD-O2D-CED
21	A	1129	CLA	CBD-CGD-O2D-CED
21	A	1136	CLA	CBD-CGD-O2D-CED
21	A	1141	CLA	CBD-CGD-O2D-CED
21	B	1207	CLA	CBD-CGD-O2D-CED
21	B	1216	CLA	CBD-CGD-O2D-CED
21	B	1225	CLA	CBD-CGD-O2D-CED
21	H	1000	CLA	CBD-CGD-O2D-CED
21	L	1502	CLA	CBD-CGD-O2D-CED
21	3	3001	CLA	CBD-CGD-O2D-CED
21	3	3005	CLA	CBD-CGD-O2D-CED
21	4	4002	CLA	CBD-CGD-O2D-CED
21	4	4004	CLA	CBD-CGD-O2D-CED
21	4	4005	CLA	CBD-CGD-O2D-CED
21	4	4006	CLA	CBD-CGD-O2D-CED
21	4	4013	CLA	CBD-CGD-O2D-CED
23	A	9011	CL0	CBD-CGD-O2D-CED
21	1	1002	CLA	C2C-C3C-CAC-CBC
21	1	1013	CLA	C4C-C3C-CAC-CBC
21	2	2002	CLA	C2C-C3C-CAC-CBC
21	2	2011	CLA	C2C-C3C-CAC-CBC
21	3	3013	CLA	C4C-C3C-CAC-CBC
21	A	1102	CLA	O1A-CGA-O2A-C1
21	A	1104	CLA	O1A-CGA-O2A-C1
21	A	1111	CLA	O1A-CGA-O2A-C1
21	A	1135	CLA	O1A-CGA-O2A-C1
21	B	1237	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	1	1005	CLA	O1A-CGA-O2A-C1
21	1	1012	CLA	O1A-CGA-O2A-C1
21	2	2010	CLA	O1A-CGA-O2A-C1
21	2	2013	CLA	O1A-CGA-O2A-C1
21	4	4007	CLA	O1A-CGA-O2A-C1
21	A	1114	CLA	O1A-CGA-O2A-C1
21	A	1118	CLA	O1A-CGA-O2A-C1
21	A	1130	CLA	O1A-CGA-O2A-C1
21	L	1501	CLA	O1A-CGA-O2A-C1
21	A	1116	CLA	O1D-CGD-O2D-CED
21	A	1124	CLA	O1D-CGD-O2D-CED
21	B	1220	CLA	O1D-CGD-O2D-CED
21	1	1008	CLA	O1D-CGD-O2D-CED
21	2	2006	CLA	O1D-CGD-O2D-CED
21	3	3017	CLA	O1D-CGD-O2D-CED
21	3	3015	CLA	O1D-CGD-O2D-CED
21	B	1228	CLA	C2C-C3C-CAC-CBC
21	G	1001	CLA	C4C-C3C-CAC-CBC
21	1	1014	CLA	C4C-C3C-CAC-CBC
21	4	4014	CLA	C4C-C3C-CAC-CBC
21	A	1113	CLA	O1D-CGD-O2D-CED
21	A	1114	CLA	O1D-CGD-O2D-CED
21	A	1131	CLA	O1D-CGD-O2D-CED
21	B	1206	CLA	O1D-CGD-O2D-CED
21	B	1211	CLA	O1D-CGD-O2D-CED
21	B	1217	CLA	O1D-CGD-O2D-CED
21	B	1224	CLA	O1D-CGD-O2D-CED
21	B	1234	CLA	O1D-CGD-O2D-CED
21	J	6014	CLA	O1D-CGD-O2D-CED
21	L	1501	CLA	O1D-CGD-O2D-CED
21	2	2011	CLA	C4C-C3C-CAC-CBC
21	B	1239	CLA	CBD-CGD-O2D-CED
21	2	2004	CLA	CBD-CGD-O2D-CED
21	A	1104	CLA	O1D-CGD-O2D-CED
21	B	1212	CLA	O1D-CGD-O2D-CED
21	J	1302	CLA	O1D-CGD-O2D-CED
20	1	1801	LHG	O9-C7-O7-C5
24	B	7101	DGD	O1B-C1B-O2G-C2G
21	3	3006	CLA	O1A-CGA-O2A-C1
21	4	4008	CLA	O1A-CGA-O2A-C1
21	A	1114	CLA	CBA-CGA-O2A-C1
21	A	1134	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	L	1501	CLA	CBA-CGA-O2A-C1
21	4	4007	CLA	C4C-C3C-CAC-CBC
21	4	4014	CLA	C2C-C3C-CAC-CBC
21	B	1201	CLA	O1A-CGA-O2A-C1
21	B	1209	CLA	O1A-CGA-O2A-C1
21	3	3011	CLA	O1A-CGA-O2A-C1
21	4	4015	CLA	O1A-CGA-O2A-C1
21	A	1103	CLA	C3-C5-C6-C7
21	B	1203	CLA	C3-C5-C6-C7
21	B	1204	CLA	C3-C5-C6-C7
21	B	1205	CLA	C3-C5-C6-C7
21	B	1210	CLA	C3-C5-C6-C7
21	B	1222	CLA	C3-C5-C6-C7
21	B	1226	CLA	C3-C5-C6-C7
21	B	1234	CLA	C3-C5-C6-C7
21	B	1236	CLA	C3-C5-C6-C7
21	J	6015	CLA	C3-C5-C6-C7
21	2	2002	CLA	C3-C5-C6-C7
21	2	2011	CLA	C3-C5-C6-C7
21	2	2012	CLA	C3-C5-C6-C7
21	3	3002	CLA	C3-C5-C6-C7
21	3	3003	CLA	C3-C5-C6-C7
21	A	1102	CLA	CBA-CGA-O2A-C1
21	A	1111	CLA	CBA-CGA-O2A-C1
21	A	1135	CLA	CBA-CGA-O2A-C1
21	B	1211	CLA	CBA-CGA-O2A-C1
21	B	1228	CLA	CBA-CGA-O2A-C1
21	B	1237	CLA	CBA-CGA-O2A-C1
21	1	1005	CLA	CBA-CGA-O2A-C1
21	2	2002	CLA	CBA-CGA-O2A-C1
21	2	2010	CLA	CBA-CGA-O2A-C1
21	4	4007	CLA	CBA-CGA-O2A-C1
21	4	4013	CLA	CBA-CGA-O2A-C1
21	F	1303	CLA	C4C-C3C-CAC-CBC
21	G	1002	CLA	C2C-C3C-CAC-CBC
21	4	4011	CLA	C2C-C3C-CAC-CBC
20	1	1801	LHG	C8-C7-O7-C5
24	B	7101	DGD	C2B-C1B-O2G-C2G
21	A	1105	CLA	O1D-CGD-O2D-CED
21	A	1108	CLA	O1D-CGD-O2D-CED
21	A	1110	CLA	O1D-CGD-O2D-CED
21	J	6015	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	4	4014	CLA	O1D-CGD-O2D-CED
21	3	3016	CLA	CBD-CGD-O2D-CED
21	1	1010	CLA	C2C-C3C-CAC-CBC
21	2	2008	CLA	C2C-C3C-CAC-CBC
21	2	2012	CLA	C2C-C3C-CAC-CBC
21	3	3012	CLA	C2C-C3C-CAC-CBC
21	A	1109	CLA	O1A-CGA-O2A-C1
21	B	1229	CLA	O1D-CGD-O2D-CED
21	B	1228	CLA	C4C-C3C-CAC-CBC
21	4	4011	CLA	C4C-C3C-CAC-CBC
21	B	1201	CLA	CBA-CGA-O2A-C1
21	B	1209	CLA	CBA-CGA-O2A-C1
21	3	3011	CLA	CBA-CGA-O2A-C1
21	4	4015	CLA	CBA-CGA-O2A-C1
21	1	1007	CLA	C4-C3-C5-C6
21	4	4002	CLA	C4-C3-C5-C6
18	A	5001	PQN	C12-C13-C15-C16
21	A	1140	CLA	C2-C3-C5-C6
21	B	1226	CLA	C2-C3-C5-C6
21	4	4004	CLA	C2-C3-C5-C6
21	4	4007	CLA	C2-C3-C5-C6
21	B	1222	CLA	CBD-CGD-O2D-CED
21	B	1227	CLA	CBD-CGD-O2D-CED
21	A	1105	CLA	C2A-CAA-CBA-CGA
21	A	1141	CLA	C2A-CAA-CBA-CGA
21	B	1207	CLA	C2A-CAA-CBA-CGA
21	B	1227	CLA	C2A-CAA-CBA-CGA
21	B	1229	CLA	C2A-CAA-CBA-CGA
21	J	1302	CLA	C2A-CAA-CBA-CGA
21	2	2008	CLA	C2A-CAA-CBA-CGA
21	2	2009	CLA	C2A-CAA-CBA-CGA
21	3	3012	CLA	C2A-CAA-CBA-CGA
21	3	3010	CLA	C2C-C3C-CAC-CBC
18	B	5002	PQN	C13-C15-C16-C17
21	B	1237	CLA	C3-C5-C6-C7
21	G	1001	CLA	C3-C5-C6-C7
21	J	6014	CLA	C3-C5-C6-C7
21	2	2013	CLA	C3-C5-C6-C7
21	A	1104	CLA	CBA-CGA-O2A-C1
21	A	1129	CLA	CBA-CGA-O2A-C1
21	A	1141	CLA	CBA-CGA-O2A-C1
21	1	1007	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	1	1012	CLA	CBA-CGA-O2A-C1
21	2	2013	CLA	CBA-CGA-O2A-C1
21	3	3006	CLA	CBA-CGA-O2A-C1
21	3	3008	CLA	CBA-CGA-O2A-C1
25	J	5001	LMG	C29-C28-O8-C9
21	A	1106	CLA	O1D-CGD-O2D-CED
21	B	1214	CLA	O1D-CGD-O2D-CED
21	3	3011	CLA	O1D-CGD-O2D-CED
21	4	4001	CLA	O1D-CGD-O2D-CED
21	A	1101	CLA	CBD-CGD-O2D-CED
21	G	1002	CLA	C4C-C3C-CAC-CBC
21	1	1010	CLA	C4C-C3C-CAC-CBC
21	2	2008	CLA	C4C-C3C-CAC-CBC
21	A	1111	CLA	O1D-CGD-O2D-CED
21	A	1121	CLA	O1D-CGD-O2D-CED
21	A	1127	CLA	O1D-CGD-O2D-CED
21	A	1135	CLA	O1D-CGD-O2D-CED
21	A	1140	CLA	O1D-CGD-O2D-CED
21	B	1209	CLA	O1D-CGD-O2D-CED
21	1	1001	CLA	O1D-CGD-O2D-CED
21	B	1228	CLA	O1A-CGA-O2A-C1
21	1	1007	CLA	O1A-CGA-O2A-C1
21	2	2012	CLA	O1A-CGA-O2A-C1
21	3	3002	CLA	O1A-CGA-O2A-C1
21	4	4011	CLA	O1A-CGA-O2A-C1
21	4	4012	CLA	O1A-CGA-O2A-C1
21	B	1217	CLA	O1A-CGA-O2A-C1
21	A	1112	CLA	O1D-CGD-O2D-CED
21	2	2011	CLA	O1D-CGD-O2D-CED
19	A	6008	BCR	C15-C16-C17-C18
19	J	6013	BCR	C13-C14-C15-C16
26	1	1502	LUT	C13-C14-C15-C35
25	J	5001	LMG	O6-C5-C6-O5
21	3	3012	CLA	C4C-C3C-CAC-CBC
21	B	1223	CLA	CBD-CGD-O2D-CED
21	1	1014	CLA	CBD-CGD-O2D-CED
21	A	1107	CLA	O1D-CGD-O2D-CED
21	A	1134	CLA	O1D-CGD-O2D-CED
21	B	1202	CLA	O1D-CGD-O2D-CED
20	A	7003	LHG	O2-C2-C3-O3
20	1	1801	LHG	O2-C2-C3-O3
21	A	1109	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
21	A	1110	CLA	C3-C5-C6-C7
21	B	1219	CLA	C3-C5-C6-C7
21	A	1128	CLA	CBA-CGA-O2A-C1
21	B	1210	CLA	CBA-CGA-O2A-C1
21	B	1219	CLA	CBA-CGA-O2A-C1
21	B	1222	CLA	CBA-CGA-O2A-C1
21	B	1230	CLA	CBA-CGA-O2A-C1
21	2	2012	CLA	CBA-CGA-O2A-C1
21	3	3013	CLA	CBA-CGA-O2A-C1
21	4	4012	CLA	CBA-CGA-O2A-C1
21	1	1012	CLA	C2C-C3C-CAC-CBC
25	G	2021	LMG	C29-C28-O8-C9
21	A	1129	CLA	O1A-CGA-O2A-C1
21	B	1211	CLA	O1A-CGA-O2A-C1
25	J	5001	LMG	O10-C28-O8-C9
21	A	1133	CLA	O1D-CGD-O2D-CED
21	B	1201	CLA	O1D-CGD-O2D-CED
21	1	1009	CLA	O1D-CGD-O2D-CED
21	A	1112	CLA	CBA-CGA-O2A-C1
21	G	1002	CLA	CBA-CGA-O2A-C1
21	2	2009	CLA	CBA-CGA-O2A-C1
21	G	1001	CLA	CBD-CGD-O2D-CED
21	2	2003	CLA	CBD-CGD-O2D-CED
25	G	2021	LMG	O6-C5-C6-O5
21	4	4002	CLA	C2C-C3C-CAC-CBC
21	A	1141	CLA	O1A-CGA-O2A-C1
21	B	1222	CLA	O1A-CGA-O2A-C1
25	G	2021	LMG	C4-C5-C6-O5
21	B	1204	CLA	O1D-CGD-O2D-CED
21	4	4003	CLA	O1D-CGD-O2D-CED
21	A	1125	CLA	C3-C5-C6-C7
21	A	1137	CLA	C3-C5-C6-C7
21	B	1229	CLA	C3-C5-C6-C7
21	4	4011	CLA	C3-C5-C6-C7
21	A	1103	CLA	CBA-CGA-O2A-C1
21	A	1109	CLA	CBA-CGA-O2A-C1
21	3	3002	CLA	CBA-CGA-O2A-C1
21	4	4008	CLA	CBA-CGA-O2A-C1
21	4	4011	CLA	CBA-CGA-O2A-C1
21	A	1132	CLA	C2C-C3C-CAC-CBC
21	3	3010	CLA	C4C-C3C-CAC-CBC
21	B	1219	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	B	1230	CLA	O1A-CGA-O2A-C1
21	2	2002	CLA	O1A-CGA-O2A-C1
21	2	2009	CLA	O1A-CGA-O2A-C1
21	2	2006	CLA	C5-C6-C7-C8
21	A	1109	CLA	C4-C3-C5-C6
21	A	1115	CLA	C4-C3-C5-C6
21	A	1132	CLA	C4-C3-C5-C6
21	A	1136	CLA	C4-C3-C5-C6
21	A	1137	CLA	C4-C3-C5-C6
21	B	1219	CLA	C4-C3-C5-C6
21	B	1220	CLA	C4-C3-C5-C6
21	1	1009	CLA	C4-C3-C5-C6
21	3	3008	CLA	C4-C3-C5-C6
21	4	4006	CLA	C4-C3-C5-C6
21	A	1109	CLA	C2-C3-C5-C6
21	A	1115	CLA	C2-C3-C5-C6
21	A	1132	CLA	C2-C3-C5-C6
21	A	1136	CLA	C2-C3-C5-C6
21	A	1137	CLA	C2-C3-C5-C6
21	B	1219	CLA	C2-C3-C5-C6
21	B	1220	CLA	C2-C3-C5-C6
21	B	1230	CLA	C2-C3-C5-C6
21	1	1001	CLA	C2-C3-C5-C6
21	1	1009	CLA	C2-C3-C5-C6
21	3	3008	CLA	C2-C3-C5-C6
21	4	4006	CLA	C2-C3-C5-C6
21	A	9013	CLA	C2A-CAA-CBA-CGA
21	L	1503	CLA	C2A-CAA-CBA-CGA
21	4	4013	CLA	C2A-CAA-CBA-CGA
21	B	1236	CLA	O1D-CGD-O2D-CED
21	4	4006	CLA	O1D-CGD-O2D-CED
21	B	1213	CLA	C2C-C3C-CAC-CBC
21	A	1124	CLA	O1A-CGA-O2A-C1
21	3	3008	CLA	O1A-CGA-O2A-C1
21	3	3013	CLA	O1A-CGA-O2A-C1
21	B	1205	CLA	O1D-CGD-O2D-CED
21	B	1225	CLA	O1D-CGD-O2D-CED
21	B	1230	CLA	O1D-CGD-O2D-CED
21	A	1124	CLA	CBA-CGA-O2A-C1
21	A	1108	CLA	CBA-CGA-O2A-C1
21	A	1125	CLA	O1D-CGD-O2D-CED
21	B	1216	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	3	3005	CLA	O1D-CGD-O2D-CED
23	A	9011	CL0	O1D-CGD-O2D-CED
21	A	1103	CLA	O1A-CGA-O2A-C1
21	A	1128	CLA	O1A-CGA-O2A-C1
21	B	1210	CLA	O1A-CGA-O2A-C1
21	2	2012	CLA	C4C-C3C-CAC-CBC
21	A	1103	CLA	O1D-CGD-O2D-CED
21	A	1129	CLA	O1D-CGD-O2D-CED
21	A	1136	CLA	O1D-CGD-O2D-CED
21	A	1141	CLA	O1D-CGD-O2D-CED
21	L	1502	CLA	O1D-CGD-O2D-CED
21	1	1004	CLA	O1D-CGD-O2D-CED
21	2	2013	CLA	C5-C6-C7-C8
20	A	7001	LHG	C1-C2-C3-O3
21	A	1115	CLA	C3-C5-C6-C7
21	F	1303	CLA	C3-C5-C6-C7
21	B	1207	CLA	O1D-CGD-O2D-CED
21	A	1105	CLA	CBA-CGA-O2A-C1
21	A	1107	CLA	CBA-CGA-O2A-C1
21	A	1117	CLA	CBA-CGA-O2A-C1
21	A	1119	CLA	CBA-CGA-O2A-C1
21	A	1123	CLA	CBA-CGA-O2A-C1
21	A	1132	CLA	CBA-CGA-O2A-C1
21	B	1202	CLA	CBA-CGA-O2A-C1
21	B	1204	CLA	CBA-CGA-O2A-C1
21	B	1226	CLA	CBA-CGA-O2A-C1
21	G	1001	CLA	CBA-CGA-O2A-C1
21	2	2006	CLA	CBA-CGA-O2A-C1
21	4	4009	CLA	CBA-CGA-O2A-C1
21	1	1007	CLA	CBD-CGD-O2D-CED
19	B	6004	BCR	C9-C10-C11-C12
19	B	6004	BCR	C13-C14-C15-C16
19	B	6004	BCR	C15-C16-C17-C18
19	B	6010	BCR	C9-C10-C11-C12
19	J	6013	BCR	C15-C16-C17-C18
19	L	6019	BCR	C9-C10-C11-C12
26	1	1502	LUT	C29-C30-C31-C32
26	2	2501	LUT	C33-C34-C35-C15
21	3	3008	CLA	C5-C6-C7-C8
25	J	5001	LMG	C4-C5-C6-O5
21	3	3001	CLA	O1D-CGD-O2D-CED
21	A	1110	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
21	A	1136	CLA	C15-C16-C17-C18
21	1	1009	CLA	C8-C10-C11-C12
21	A	1105	CLA	O1A-CGA-O2A-C1
21	B	1202	CLA	O1A-CGA-O2A-C1
21	1	1007	CLA	C2-C3-C5-C6
21	4	4002	CLA	C2-C3-C5-C6
18	B	5002	PQN	C24-C23-C25-C26
21	A	1123	CLA	C14-C13-C15-C16
21	B	1206	CLA	C14-C13-C15-C16
21	B	1214	CLA	C11-C10-C8-C9
21	B	1220	CLA	C11-C10-C8-C9
21	B	1220	CLA	C14-C13-C15-C16
21	B	1222	CLA	C11-C10-C8-C9
21	B	1222	CLA	C11-C12-C13-C14
21	B	1226	CLA	C11-C12-C13-C14
21	B	1229	CLA	C11-C10-C8-C9
21	B	1237	CLA	C11-C10-C8-C9
21	B	9023	CLA	C11-C12-C13-C14
21	1	1003	CLA	C6-C7-C8-C9
21	1	1004	CLA	C11-C10-C8-C9
21	1	1005	CLA	C6-C7-C8-C9
21	2	2008	CLA	C6-C7-C8-C9
21	2	2013	CLA	C11-C10-C8-C9
21	3	3001	CLA	C6-C7-C8-C9
21	4	4001	CLA	C14-C13-C15-C16
21	4	4003	CLA	C6-C7-C8-C9
21	4	4004	CLA	C6-C7-C8-C9
21	4	4006	CLA	C6-C7-C8-C9
21	4	4006	CLA	C11-C10-C8-C9
21	4	4007	CLA	C6-C7-C8-C9
21	4	4011	CLA	C6-C7-C8-C9
21	2	2011	CLA	C8-C10-C11-C12
21	4	4003	CLA	C10-C11-C12-C13
21	A	1119	CLA	C2A-CAA-CBA-CGA
21	3	3004	CLA	C2A-CAA-CBA-CGA
19	A	6011	BCR	C7-C8-C9-C34
19	B	6004	BCR	C36-C18-C19-C20
19	B	6005	BCR	C7-C8-C9-C34
19	B	6006	BCR	C37-C22-C23-C24
19	G	2011	BCR	C37-C22-C23-C24
19	I	6018	BCR	C7-C8-C9-C34
26	4	4502	LUT	C27-C28-C29-C39

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Mol	Chain	Res	Type	Atoms
19	A	6003	BCR	C7-C8-C9-C10
19	A	6011	BCR	C7-C8-C9-C10
19	B	6005	BCR	C7-C8-C9-C10
19	B	6006	BCR	C21-C22-C23-C24
19	F	6014	BCR	C21-C22-C23-C24
19	J	6012	BCR	C21-C22-C23-C24
24	B	7101	DGD	O6E-C5E-C6E-O5E
23	A	9011	CL0	C2C-C3C-CAC-CBC
21	A	1132	CLA	O1A-CGA-O2A-C1
21	G	1001	CLA	O1A-CGA-O2A-C1
21	A	1103	CLA	C8-C10-C11-C12
21	A	1119	CLA	C13-C15-C16-C17
21	A	1122	CLA	C8-C10-C11-C12
21	B	1207	CLA	C8-C10-C11-C12
21	B	1215	CLA	C8-C10-C11-C12
21	J	6014	CLA	C10-C11-C12-C13
21	L	1502	CLA	C5-C6-C7-C8
21	1	1010	CLA	C10-C11-C12-C13
21	1	1011	CLA	C8-C10-C11-C12
21	2	2003	CLA	C15-C16-C17-C18
21	4	4003	CLA	C8-C10-C11-C12
21	H	1000	CLA	O1D-CGD-O2D-CED
21	2	2005	CLA	C3-C5-C6-C7
21	A	1101	CLA	CBA-CGA-O2A-C1
21	A	1106	CLA	CBA-CGA-O2A-C1
21	B	1215	CLA	CBA-CGA-O2A-C1
21	B	1229	CLA	CBA-CGA-O2A-C1
21	B	1234	CLA	CBA-CGA-O2A-C1
21	B	1235	CLA	CBA-CGA-O2A-C1
21	1	1006	CLA	CBA-CGA-O2A-C1
25	G	2021	LMG	O10-C28-O8-C9
21	A	1104	CLA	C8-C10-C11-C12
21	A	1115	CLA	C5-C6-C7-C8
21	A	1117	CLA	C15-C16-C17-C18
21	A	1123	CLA	C10-C11-C12-C13
21	A	9013	CLA	C5-C6-C7-C8
21	B	1202	CLA	C5-C6-C7-C8
21	B	1219	CLA	C5-C6-C7-C8
21	1	1003	CLA	C10-C11-C12-C13
21	1	1009	CLA	C5-C6-C7-C8
21	3	3006	CLA	C10-C11-C12-C13
21	B	1204	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	A	1104	CLA	C5-C6-C7-C8
21	A	1106	CLA	C8-C10-C11-C12
21	A	1126	CLA	C8-C10-C11-C12
21	A	1132	CLA	C5-C6-C7-C8
21	B	1205	CLA	C10-C11-C12-C13
21	B	1218	CLA	C5-C6-C7-C8
21	B	1224	CLA	C10-C11-C12-C13
21	L	1502	CLA	C8-C10-C11-C12
21	2	2003	CLA	C8-C10-C11-C12
21	2	2004	CLA	C10-C11-C12-C13
21	2	2005	CLA	C10-C11-C12-C13
21	2	2011	CLA	C10-C11-C12-C13
21	4	4001	CLA	C15-C16-C17-C18
21	4	4012	CLA	C15-C16-C17-C18
20	B	7004	LHG	C14-C15-C16-C17
20	1	1801	LHG	O1-C1-C2-O2
20	A	7001	LHG	C23-C24-C25-C26
21	4	4002	CLA	O1D-CGD-O2D-CED
21	A	1123	CLA	C13-C15-C16-C17
21	A	1126	CLA	C13-C15-C16-C17
21	B	1205	CLA	C13-C15-C16-C17
21	B	9010	CLA	C13-C15-C16-C17
21	2	2012	CLA	C5-C6-C7-C8
21	A	1112	CLA	O1A-CGA-O2A-C1
21	A	1105	CLA	C2-C1-O2A-CGA
21	A	1107	CLA	C2-C1-O2A-CGA
21	A	1116	CLA	C2-C1-O2A-CGA
21	A	1119	CLA	C2-C1-O2A-CGA
21	A	1126	CLA	C2-C1-O2A-CGA
21	A	1137	CLA	C2-C1-O2A-CGA
21	A	1139	CLA	C2-C1-O2A-CGA
21	A	1140	CLA	C2-C1-O2A-CGA
21	B	1203	CLA	C2-C1-O2A-CGA
21	B	1230	CLA	C2-C1-O2A-CGA
21	B	1236	CLA	C2-C1-O2A-CGA
21	J	6014	CLA	C2-C1-O2A-CGA
21	1	1008	CLA	C2-C1-O2A-CGA
21	1	1012	CLA	C2-C1-O2A-CGA
21	2	2003	CLA	C2-C1-O2A-CGA
21	2	2010	CLA	C2-C1-O2A-CGA
21	3	3008	CLA	C2-C1-O2A-CGA
21	3	3013	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
21	4	4007	CLA	C2-C1-O2A-CGA
21	4	4011	CLA	C2-C1-O2A-CGA
21	A	1103	CLA	C5-C6-C7-C8
21	A	1117	CLA	C5-C6-C7-C8
21	A	1119	CLA	C5-C6-C7-C8
21	A	1140	CLA	C5-C6-C7-C8
21	B	1204	CLA	C5-C6-C7-C8
21	B	1205	CLA	C5-C6-C7-C8
21	1	1004	CLA	C5-C6-C7-C8
21	1	1013	CLA	C8-C10-C11-C12
21	2	2012	CLA	C13-C15-C16-C17
21	4	4006	CLA	C8-C10-C11-C12
21	A	1101	CLA	C8-C10-C11-C12
21	A	1126	CLA	C10-C11-C12-C13
21	A	1138	CLA	C8-C10-C11-C12
21	L	1502	CLA	C10-C11-C12-C13
18	B	5002	PQN	C21-C22-C23-C25
21	A	1122	CLA	C11-C10-C8-C7
21	B	1206	CLA	C11-C10-C8-C7
21	B	1220	CLA	C6-C7-C8-C10
21	B	1237	CLA	C11-C10-C8-C7
21	2	2011	CLA	C6-C7-C8-C10
21	2	2013	CLA	C6-C7-C8-C10
21	4	4001	CLA	C6-C7-C8-C10
21	4	4006	CLA	C11-C10-C8-C7
21	A	1123	CLA	O1A-CGA-O2A-C1
21	B	1226	CLA	O1A-CGA-O2A-C1
21	B	1235	CLA	O1A-CGA-O2A-C1
21	4	4009	CLA	O1A-CGA-O2A-C1
19	A	6011	BCR	C9-C10-C11-C12
19	B	6010	BCR	C19-C20-C21-C22
19	I	6018	BCR	C19-C20-C21-C22
26	1	1501	LUT	C9-C10-C11-C12
26	1	1502	LUT	C33-C34-C35-C15
21	A	1106	CLA	C2A-CAA-CBA-CGA
21	A	1111	CLA	C2A-CAA-CBA-CGA
21	A	1128	CLA	C2A-CAA-CBA-CGA
21	1	1009	CLA	C2A-CAA-CBA-CGA
21	3	3011	CLA	C2A-CAA-CBA-CGA
21	B	1239	CLA	O1D-CGD-O2D-CED
21	3	3016	CLA	O1D-CGD-O2D-CED
21	4	4004	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	A	1119	CLA	C10-C11-C12-C13
21	B	1206	CLA	C5-C6-C7-C8
21	B	1206	CLA	C15-C16-C17-C18
21	B	1235	CLA	C13-C15-C16-C17
21	B	1237	CLA	C5-C6-C7-C8
21	B	1240	CLA	C5-C6-C7-C8
21	2	2010	CLA	C8-C10-C11-C12
21	2	2010	CLA	C10-C11-C12-C13
21	2	2010	CLA	C15-C16-C17-C18
21	4	4003	CLA	C13-C15-C16-C17
21	A	1107	CLA	O1A-CGA-O2A-C1
21	A	1119	CLA	O1A-CGA-O2A-C1
21	2	2006	CLA	O1A-CGA-O2A-C1
21	A	1118	CLA	CBD-CGD-O2D-CED
21	A	1126	CLA	C15-C16-C17-C18
21	B	1207	CLA	C15-C16-C17-C18
21	4	4007	CLA	C15-C16-C17-C18
23	A	9011	CL0	C8-C10-C11-C12
21	B	9023	CLA	C2C-C3C-CAC-CBC
19	A	6008	BCR	C10-C11-C12-C13
19	F	6016	BCR	C10-C11-C12-C13
19	J	6013	BCR	C10-C11-C12-C13
27	4	4503	NEX	C30-C31-C32-C33
21	4	4013	CLA	O1D-CGD-O2D-CED
21	1	1010	CLA	C3-C5-C6-C7
21	2	2006	CLA	C8-C10-C11-C12
21	A	1111	CLA	C5-C6-C7-C8
21	A	1111	CLA	C10-C11-C12-C13
21	A	1127	CLA	C5-C6-C7-C8
21	A	9013	CLA	C8-C10-C11-C12
21	B	1202	CLA	C15-C16-C17-C18
21	B	1205	CLA	C15-C16-C17-C18
21	B	1226	CLA	C13-C15-C16-C17
21	B	1229	CLA	C8-C10-C11-C12
21	B	1230	CLA	C5-C6-C7-C8
21	J	6014	CLA	C5-C6-C7-C8
21	3	3001	CLA	C8-C10-C11-C12
21	4	4006	CLA	C13-C15-C16-C17
21	A	1132	CLA	C4C-C3C-CAC-CBC
21	A	1101	CLA	O1A-CGA-O2A-C1
21	B	1234	CLA	O1A-CGA-O2A-C1
21	1	1006	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
18	B	5002	PQN	C25-C26-C27-C28
21	B	1203	CLA	C10-C11-C12-C13
21	B	1214	CLA	C5-C6-C7-C8
21	2	2002	CLA	C10-C11-C12-C13
21	3	3001	CLA	C13-C15-C16-C17
21	3	3006	CLA	C13-C15-C16-C17
21	3	3008	CLA	C13-C15-C16-C17
21	4	4011	CLA	C15-C16-C17-C18
21	G	1002	CLA	O1A-CGA-O2A-C1
21	A	1106	CLA	O1A-CGA-O2A-C1
21	A	1117	CLA	O1A-CGA-O2A-C1
21	B	1229	CLA	O1A-CGA-O2A-C1
21	1	1012	CLA	C4C-C3C-CAC-CBC
21	1	1014	CLA	O1D-CGD-O2D-CED
21	B	1211	CLA	C5-C6-C7-C8
21	B	1223	CLA	C10-C11-C12-C13
21	B	9010	CLA	C8-C10-C11-C12
21	B	9022	CLA	C15-C16-C17-C18
21	B	9023	CLA	C13-C15-C16-C17
21	B	9023	CLA	C15-C16-C17-C18
20	A	7001	LHG	C4-O6-P-O3
20	B	7004	LHG	C4-O6-P-O3
20	1	1801	LHG	C4-O6-P-O3
20	2	2801	LHG	C3-O3-P-O6
20	2	2801	LHG	C4-O6-P-O3
21	A	1122	CLA	C3-C5-C6-C7
21	B	1213	CLA	CBA-CGA-O2A-C1
21	3	3001	CLA	CBA-CGA-O2A-C1
21	B	1222	CLA	C8-C10-C11-C12
21	1	1004	CLA	C10-C11-C12-C13
21	4	4013	CLA	C2C-C3C-CAC-CBC
20	A	7003	LHG	C1-C2-C3-O3
21	A	1139	CLA	C4-C3-C5-C6
18	A	5001	PQN	C15-C16-C17-C18
21	A	1140	CLA	C8-C10-C11-C12
21	B	1206	CLA	C13-C15-C16-C17
21	B	1220	CLA	C13-C15-C16-C17
21	2	2004	CLA	C5-C6-C7-C8
21	B	1214	CLA	C2A-CAA-CBA-CGA
21	2	2002	CLA	C2A-CAA-CBA-CGA
21	2	2004	CLA	C2A-CAA-CBA-CGA
21	2	2011	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
21	A	1109	CLA	C16-C17-C18-C20
21	B	1216	CLA	C16-C17-C18-C19
21	B	1222	CLA	C16-C17-C18-C20
21	2	2008	CLA	C16-C17-C18-C20
21	3	3008	CLA	C16-C17-C18-C20
21	A	1116	CLA	C3-C5-C6-C7
21	A	1131	CLA	CBA-CGA-O2A-C1
21	B	1218	CLA	CBA-CGA-O2A-C1
21	J	6015	CLA	C2C-C3C-CAC-CBC
21	4	4002	CLA	C4C-C3C-CAC-CBC
19	A	6007	BCR	C9-C10-C11-C12
19	B	6005	BCR	C9-C10-C11-C12
19	G	2011	BCR	C9-C10-C11-C12
26	1	1501	LUT	C13-C14-C15-C35
26	1	1501	LUT	C33-C34-C35-C15
26	4	4501	LUT	C13-C14-C15-C35
20	2	2801	LHG	C7-C8-C9-C10
25	J	5001	LMG	C10-C11-C12-C13
21	1	1006	CLA	CBD-CGD-O2D-CED
21	B	1239	CLA	C8-C10-C11-C12
21	1	1008	CLA	C13-C15-C16-C17
19	A	6003	BCR	C11-C10-C9-C34
19	B	6006	BCR	C11-C10-C9-C34
19	B	6011	BCR	C11-C10-C9-C34
19	G	2011	BCR	C11-C10-C9-C34
19	I	6018	BCR	C11-C10-C9-C34
19	J	6012	BCR	C16-C17-C18-C36
27	4	4503	NEX	C20-C13-C14-C15
21	L	1502	CLA	C3-C5-C6-C7
20	A	7001	LHG	C28-C29-C30-C31
20	A	7003	LHG	C29-C30-C31-C32
24	B	7101	DGD	C4E-C5E-C6E-O5E
21	B	1222	CLA	O1D-CGD-O2D-CED
21	F	1303	CLA	C16-C17-C18-C20
21	1	1008	CLA	C16-C17-C18-C20
21	4	4006	CLA	C16-C17-C18-C20
20	2	2801	LHG	C13-C14-C15-C16
25	J	5001	LMG	C11-C12-C13-C14
21	A	1101	CLA	O1D-CGD-O2D-CED
21	2	2004	CLA	O1D-CGD-O2D-CED
20	1	1801	LHG	C23-C24-C25-C26
21	B	1223	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
19	A	6003	BCR	C11-C10-C9-C8
19	B	6006	BCR	C11-C10-C9-C8
19	B	6011	BCR	C11-C10-C9-C8
19	G	2011	BCR	C11-C10-C9-C8
19	I	6018	BCR	C11-C10-C9-C8
19	J	6012	BCR	C16-C17-C18-C19
19	L	6020	BCR	C11-C10-C9-C8
27	4	4503	NEX	C12-C13-C14-C15
20	2	2801	LHG	C24-C23-O8-C6
21	B	1239	CLA	CBA-CGA-O2A-C1
24	B	7101	DGD	C8B-C9B-CAB-CBB
21	B	1216	CLA	C13-C15-C16-C17
21	B	1215	CLA	O1A-CGA-O2A-C1
21	A	1111	CLA	C11-C12-C13-C15
21	3	3003	CLA	C11-C12-C13-C15
21	B	1227	CLA	O1D-CGD-O2D-CED
20	A	7003	LHG	C34-C35-C36-C37
21	A	1101	CLA	C14-C13-C15-C16
21	A	1117	CLA	C11-C10-C8-C9
21	B	1224	CLA	C11-C12-C13-C14
21	B	1239	CLA	C11-C12-C13-C14
21	2	2010	CLA	C6-C7-C8-C9
20	A	7003	LHG	C33-C34-C35-C36
24	B	7101	DGD	C2A-C3A-C4A-C5A
21	1	1008	CLA	C15-C16-C17-C18
21	G	1001	CLA	C2A-CAA-CBA-CGA
21	3	3008	CLA	C2A-CAA-CBA-CGA
21	B	1218	CLA	O1A-CGA-O2A-C1
21	3	3001	CLA	O1A-CGA-O2A-C1
19	B	6005	BCR	C37-C22-C23-C24
19	J	6013	BCR	C36-C18-C19-C20
19	J	6013	BCR	C37-C22-C23-C24
20	A	7001	LHG	C31-C32-C33-C34
20	A	7003	LHG	C11-C10-C9-C8
20	A	7003	LHG	C28-C29-C30-C31
20	A	7003	LHG	O1-C1-C2-C3
19	B	6004	BCR	C17-C18-C19-C20
19	B	6005	BCR	C21-C22-C23-C24
19	J	6013	BCR	C17-C18-C19-C20
19	J	6013	BCR	C21-C22-C23-C24
26	1	1502	LUT	C31-C32-C33-C34
21	B	1220	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
21	A	1109	CLA	C10-C11-C12-C13
21	B	1237	CLA	C10-C11-C12-C13
20	A	7001	LHG	C8-C7-O7-C5
25	J	5001	LMG	C29-C30-C31-C32
20	A	7003	LHG	C26-C27-C28-C29
20	B	7004	LHG	C28-C29-C30-C31
21	A	1109	CLA	C16-C17-C18-C19
21	B	1211	CLA	C16-C17-C18-C20
21	F	1303	CLA	C16-C17-C18-C19
21	3	3008	CLA	C16-C17-C18-C19
21	B	1218	CLA	C10-C11-C12-C13
20	A	7001	LHG	C10-C11-C12-C13
20	A	7003	LHG	C11-C12-C13-C14
20	1	1801	LHG	C7-C8-C9-C10
21	A	1101	CLA	C10-C11-C12-C13
21	B	1202	CLA	C13-C15-C16-C17
21	F	1303	CLA	C10-C11-C12-C13
21	A	1131	CLA	O1A-CGA-O2A-C1
21	B	1213	CLA	O1A-CGA-O2A-C1
21	B	1213	CLA	C4C-C3C-CAC-CBC
23	A	9011	CL0	C4C-C3C-CAC-CBC
21	A	1108	CLA	O1A-CGA-O2A-C1
21	A	1110	CLA	CBA-CGA-O2A-C1
21	A	1127	CLA	CBA-CGA-O2A-C1
21	B	1203	CLA	CBA-CGA-O2A-C1
21	A	1101	CLA	C3A-C2A-CAA-CBA
21	A	1103	CLA	C3A-C2A-CAA-CBA
21	A	1104	CLA	C3A-C2A-CAA-CBA
21	A	1107	CLA	C3A-C2A-CAA-CBA
21	A	1113	CLA	C3A-C2A-CAA-CBA
21	A	1136	CLA	C3A-C2A-CAA-CBA
21	A	1142	CLA	C3A-C2A-CAA-CBA
21	A	1143	CLA	C3A-C2A-CAA-CBA
21	B	1202	CLA	C3A-C2A-CAA-CBA
21	B	1209	CLA	C3A-C2A-CAA-CBA
21	F	1303	CLA	C3A-C2A-CAA-CBA
21	L	1501	CLA	C3A-C2A-CAA-CBA
21	L	1503	CLA	C3A-C2A-CAA-CBA
21	1	1002	CLA	C3A-C2A-CAA-CBA
21	1	1003	CLA	C3A-C2A-CAA-CBA
21	1	1005	CLA	C3A-C2A-CAA-CBA
21	1	1013	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
21	2	2013	CLA	C3A-C2A-CAA-CBA
21	3	3003	CLA	C3A-C2A-CAA-CBA
21	3	3006	CLA	C3A-C2A-CAA-CBA
21	3	3010	CLA	C3A-C2A-CAA-CBA
21	3	3011	CLA	C3A-C2A-CAA-CBA
21	3	3017	CLA	C3A-C2A-CAA-CBA
21	4	4005	CLA	C3A-C2A-CAA-CBA
21	4	4010	CLA	C3A-C2A-CAA-CBA
21	4	4013	CLA	C3A-C2A-CAA-CBA
21	B	1227	CLA	C13-C15-C16-C17
19	I	6018	BCR	C15-C16-C17-C18
20	A	7001	LHG	C11-C12-C13-C14
20	2	2801	LHG	C9-C10-C11-C12
21	B	1231	CLA	CBA-CGA-O2A-C1
21	A	1111	CLA	C11-C12-C13-C14
21	B	1222	CLA	C16-C17-C18-C19
21	A	1131	CLA	C2C-C3C-CAC-CBC
21	4	4005	CLA	O1D-CGD-O2D-CED
21	4	4001	CLA	O2A-C1-C2-C3
21	3	3008	CLA	C3-C5-C6-C7
21	4	4007	CLA	C5-C6-C7-C8
21	B	1229	CLA	C4-C3-C5-C6
21	F	1303	CLA	C4-C3-C5-C6
21	2	2011	CLA	C4-C3-C5-C6
21	4	4012	CLA	C4-C3-C5-C6
21	B	1229	CLA	C2-C3-C5-C6
21	F	1303	CLA	C2-C3-C5-C6
21	4	4012	CLA	C2-C3-C5-C6
20	2	2801	LHG	C25-C26-C27-C28
21	B	1204	CLA	C2A-CAA-CBA-CGA
21	1	1013	CLA	C2A-CAA-CBA-CGA
20	B	7004	LHG	O1-C1-C2-O2
28	4	4505	G3P	O1-C1-C2-O2
21	B	1239	CLA	C15-C16-C17-C18
20	A	7003	LHG	C15-C16-C17-C18
20	1	1801	LHG	C9-C10-C11-C12
24	B	7101	DGD	C3B-C4B-C5B-C6B
21	1	1001	CLA	C6-C7-C8-C9
21	1	1008	CLA	C16-C17-C18-C19
23	A	9011	CL0	C16-C17-C18-C19
20	A	7001	LHG	C13-C14-C15-C16
21	B	1225	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
21	B	9010	CLA	C15-C16-C17-C18
21	2	2005	CLA	C15-C16-C17-C18
21	B	1230	CLA	C3-C5-C6-C7
20	A	7001	LHG	C26-C27-C28-C29
24	B	7101	DGD	C6A-C7A-C8A-C9A
20	A	7001	LHG	O9-C7-O7-C5
21	B	1213	CLA	C2-C1-O2A-CGA
21	B	1214	CLA	C2-C1-O2A-CGA
21	B	1221	CLA	C2-C1-O2A-CGA
21	B	1223	CLA	C2-C1-O2A-CGA
21	B	1228	CLA	C2-C1-O2A-CGA
21	B	9010	CLA	C2-C1-O2A-CGA
21	B	9022	CLA	C2-C1-O2A-CGA
21	3	3001	CLA	C2-C1-O2A-CGA
21	3	3010	CLA	C2-C1-O2A-CGA
20	B	7004	LHG	C31-C32-C33-C34
21	1	1009	CLA	C15-C16-C17-C18
21	A	1110	CLA	O1A-CGA-O2A-C1
21	A	1127	CLA	O1A-CGA-O2A-C1
21	B	1239	CLA	O1A-CGA-O2A-C1
20	B	7004	LHG	C34-C35-C36-C37
19	A	6011	BCR	C23-C24-C25-C26
19	A	6011	BCR	C23-C24-C25-C30
19	A	6017	BCR	C23-C24-C25-C26
19	A	6017	BCR	C23-C24-C25-C30
19	B	6004	BCR	C23-C24-C25-C26
19	B	6005	BCR	C1-C6-C7-C8
19	B	6005	BCR	C23-C24-C25-C30
19	B	6010	BCR	C23-C24-C25-C30
19	B	6011	BCR	C5-C6-C7-C8
19	F	6014	BCR	C23-C24-C25-C26
19	F	6014	BCR	C23-C24-C25-C30
19	I	6018	BCR	C23-C24-C25-C30
19	J	6012	BCR	C1-C6-C7-C8
19	J	6012	BCR	C5-C6-C7-C8
19	J	6012	BCR	C23-C24-C25-C30
19	J	6013	BCR	C23-C24-C25-C26
21	A	1138	CLA	C3-C5-C6-C7
26	1	1501	LUT	C1-C6-C7-C8
26	1	1501	LUT	C5-C6-C7-C8
26	1	1502	LUT	C5-C6-C7-C8
26	4	4501	LUT	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
21	G	1001	CLA	O1D-CGD-O2D-CED
21	2	2003	CLA	CBA-CGA-O2A-C1
21	2	2011	CLA	CBA-CGA-O2A-C1
21	B	1225	CLA	C5-C6-C7-C8
21	J	6015	CLA	C5-C6-C7-C8
21	L	1502	CLA	C15-C16-C17-C18
21	2	2008	CLA	C10-C11-C12-C13
21	4	4007	CLA	C8-C10-C11-C12
20	B	7004	LHG	C24-C25-C26-C27
21	1	1005	CLA	C11-C10-C8-C9
21	A	1109	CLA	C8-C10-C11-C12
21	B	1225	CLA	C10-C11-C12-C13
21	4	4001	CLA	C5-C6-C7-C8
20	B	7004	LHG	C26-C27-C28-C29
21	A	1101	CLA	C6-C7-C8-C10
21	A	1101	CLA	C12-C13-C15-C16
21	A	1103	CLA	C11-C10-C8-C7
21	A	1117	CLA	C11-C10-C8-C7
21	A	1124	CLA	C2-C3-C5-C6
21	A	1126	CLA	C6-C7-C8-C10
21	A	1126	CLA	C11-C12-C13-C15
21	B	1206	CLA	C6-C7-C8-C10
21	B	1206	CLA	C12-C13-C15-C16
21	B	1210	CLA	C12-C13-C15-C16
21	B	1226	CLA	C11-C12-C13-C15
21	B	1238	CLA	C6-C7-C8-C10
21	B	1239	CLA	C11-C12-C13-C15
21	B	9023	CLA	C11-C10-C8-C7
21	B	9023	CLA	C11-C12-C13-C15
21	J	6014	CLA	C11-C10-C8-C7
21	1	1010	CLA	C11-C12-C13-C15
21	2	2011	CLA	C2-C3-C5-C6
21	2	2013	CLA	C11-C10-C8-C7
21	3	3008	CLA	C6-C7-C8-C10
21	3	3008	CLA	C11-C12-C13-C15
21	4	4003	CLA	C6-C7-C8-C10
20	2	2801	LHG	O10-C23-O8-C6
21	B	1203	CLA	O1A-CGA-O2A-C1
21	B	1240	CLA	C2C-C3C-CAC-CBC
21	A	1128	CLA	C10-C11-C12-C13
21	B	1227	CLA	C15-C16-C17-C18
21	1	1004	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
26	4	4502	LUT	C9-C10-C11-C12
21	A	1122	CLA	CBD-CGD-O2D-CED
21	3	3003	CLA	C11-C12-C13-C14
21	4	4006	CLA	C16-C17-C18-C19
21	1	1007	CLA	O1D-CGD-O2D-CED
21	1	1004	CLA	CBA-CGA-O2A-C1
21	4	4004	CLA	CBA-CGA-O2A-C1
21	A	1116	CLA	C2A-CAA-CBA-CGA
21	B	1225	CLA	C2A-CAA-CBA-CGA
21	A	1106	CLA	C13-C15-C16-C17
21	F	1303	CLA	C2A-CAA-CBA-CGA
21	B	1220	CLA	C10-C11-C12-C13
21	1	1011	CLA	C10-C11-C12-C13
21	3	3001	CLA	C10-C11-C12-C13
21	B	1226	CLA	C16-C17-C18-C19
21	B	1227	CLA	C16-C17-C18-C20
21	2	2010	CLA	C16-C17-C18-C19
21	A	1128	CLA	C5-C6-C7-C8
21	B	1220	CLA	C5-C6-C7-C8
21	B	1235	CLA	C15-C16-C17-C18
21	4	4011	CLA	C13-C15-C16-C17
20	A	7001	LHG	C7-C8-C9-C10
20	B	7004	LHG	C8-C7-O7-C5
20	A	7003	LHG	O6-C4-C5-O7
19	B	6010	BCR	C18-C19-C20-C21
21	B	1240	CLA	C15-C16-C17-C18
21	1	1013	CLA	C5-C6-C7-C8
25	J	5001	LMG	C31-C32-C33-C34
21	B	1207	CLA	C3-C5-C6-C7
21	1	1004	CLA	C3-C5-C6-C7
21	A	1117	CLA	C8-C10-C11-C12
21	1	1010	CLA	C15-C16-C17-C18
23	A	9011	CL0	C16-C17-C18-C20
21	B	1216	CLA	C8-C10-C11-C12
21	J	1302	CLA	C5-C6-C7-C8
21	A	1124	CLA	C4-C3-C5-C6
21	A	1139	CLA	C2-C3-C5-C6
18	B	5002	PQN	C21-C22-C23-C24
21	A	1103	CLA	C11-C10-C8-C9
21	A	1122	CLA	C11-C10-C8-C9
21	A	1132	CLA	C14-C13-C15-C16
21	B	1206	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
21	B	1206	CLA	C11-C10-C8-C9
21	B	1210	CLA	C14-C13-C15-C16
21	B	1218	CLA	C11-C10-C8-C9
21	B	1238	CLA	C6-C7-C8-C9
21	B	9023	CLA	C11-C10-C8-C9
21	2	2011	CLA	C6-C7-C8-C9
21	2	2013	CLA	C6-C7-C8-C9
21	3	3008	CLA	C6-C7-C8-C9
21	3	3008	CLA	C11-C12-C13-C14
21	4	4001	CLA	C6-C7-C8-C9
21	4	4012	CLA	C11-C10-C8-C9
23	A	9011	CL0	C11-C12-C13-C14
21	1	1003	CLA	C3-C5-C6-C7
21	A	1126	CLA	C2A-CAA-CBA-CGA
21	3	3015	CLA	C2A-CAA-CBA-CGA
19	I	6018	BCR	C37-C22-C23-C24
21	J	1302	CLA	C10-C11-C12-C13
20	A	7003	LHG	C9-C10-C11-C12
19	I	6018	BCR	C21-C22-C23-C24
19	J	6013	BCR	C7-C8-C9-C10
21	1	1004	CLA	O1A-CGA-O2A-C1
21	2	2003	CLA	O1A-CGA-O2A-C1
21	4	4004	CLA	O1A-CGA-O2A-C1
21	A	1101	CLA	C1A-C2A-CAA-CBA
21	A	1103	CLA	C1A-C2A-CAA-CBA
21	A	1104	CLA	C1A-C2A-CAA-CBA
21	A	1106	CLA	C1A-C2A-CAA-CBA
21	A	1113	CLA	C1A-C2A-CAA-CBA
21	A	1116	CLA	C1A-C2A-CAA-CBA
21	A	1117	CLA	C1A-C2A-CAA-CBA
21	A	1124	CLA	C1A-C2A-CAA-CBA
21	A	1132	CLA	C1A-C2A-CAA-CBA
21	A	1142	CLA	C1A-C2A-CAA-CBA
21	A	1143	CLA	C1A-C2A-CAA-CBA
21	B	1208	CLA	C1A-C2A-CAA-CBA
21	B	1215	CLA	C1A-C2A-CAA-CBA
21	B	1216	CLA	C1A-C2A-CAA-CBA
21	B	1219	CLA	C1A-C2A-CAA-CBA
21	B	1220	CLA	C1A-C2A-CAA-CBA
21	B	1224	CLA	C1A-C2A-CAA-CBA
21	B	1226	CLA	C1A-C2A-CAA-CBA
21	B	1229	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
21	B	1239	CLA	C1A-C2A-CAA-CBA
21	J	6015	CLA	C1A-C2A-CAA-CBA
21	1	1002	CLA	C1A-C2A-CAA-CBA
21	1	1003	CLA	C1A-C2A-CAA-CBA
21	1	1004	CLA	C1A-C2A-CAA-CBA
21	1	1005	CLA	C1A-C2A-CAA-CBA
21	1	1010	CLA	C1A-C2A-CAA-CBA
21	2	2003	CLA	C1A-C2A-CAA-CBA
21	2	2008	CLA	C1A-C2A-CAA-CBA
21	2	2013	CLA	C1A-C2A-CAA-CBA
21	3	3003	CLA	C1A-C2A-CAA-CBA
21	3	3006	CLA	C1A-C2A-CAA-CBA
21	3	3016	CLA	C1A-C2A-CAA-CBA
21	3	3017	CLA	C1A-C2A-CAA-CBA
21	4	4012	CLA	C1A-C2A-CAA-CBA
21	4	4014	CLA	C1A-C2A-CAA-CBA
21	B	1226	CLA	C16-C17-C18-C20
21	B	1227	CLA	C16-C17-C18-C19
21	2	2008	CLA	C16-C17-C18-C19
19	A	6003	BCR	C9-C10-C11-C12
19	F	6016	BCR	C9-C10-C11-C12
19	I	6020	BCR	C9-C10-C11-C12
26	4	4501	LUT	C29-C30-C31-C32
21	A	1124	CLA	C5-C6-C7-C8
21	A	9012	CLA	C5-C6-C7-C8
21	B	1220	CLA	C8-C10-C11-C12
21	2	2005	CLA	C13-C15-C16-C17
21	2	2013	CLA	C13-C15-C16-C17
21	B	1211	CLA	C15-C16-C17-C18
21	B	1225	CLA	C15-C16-C17-C18
21	A	1137	CLA	CBA-CGA-O2A-C1
20	B	7004	LHG	O6-C4-C5-C6
21	1	1006	CLA	O1D-CGD-O2D-CED
20	A	7001	LHG	C33-C34-C35-C36
21	A	1117	CLA	C13-C15-C16-C17
21	B	1211	CLA	C16-C17-C18-C19
21	1	1001	CLA	C6-C7-C8-C10
20	1	1801	LHG	C26-C27-C28-C29
21	A	1116	CLA	C5-C6-C7-C8
21	A	1101	CLA	C3-C5-C6-C7
18	A	5001	PQN	C18-C20-C21-C22
21	A	1118	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
20	B	7004	LHG	O9-C7-O7-C5
20	1	1801	LHG	C13-C14-C15-C16
24	B	7101	DGD	CAB-CBB-CCB-CDB
21	1	1010	CLA	C5-C6-C7-C8
20	1	1801	LHG	C27-C28-C29-C30
20	1	1801	LHG	C33-C34-C35-C36
20	A	7003	LHG	C23-C24-C25-C26
21	2	2011	CLA	O1A-CGA-O2A-C1
21	A	1115	CLA	C2A-CAA-CBA-CGA
21	3	3009	CLA	C2A-CAA-CBA-CGA
21	A	1106	CLA	C16-C17-C18-C20
21	B	1216	CLA	C16-C17-C18-C20
21	4	4011	CLA	C16-C17-C18-C19
20	A	7001	LHG	C4-C5-C6-O8
20	A	7001	LHG	C27-C28-C29-C30
20	A	7003	LHG	C4-C5-C6-O8
20	B	7004	LHG	C4-C5-C6-O8
21	B	1216	CLA	C15-C16-C17-C18
20	A	7003	LHG	C35-C36-C37-C38
25	G	2021	LMG	C8-C7-O1-C1
21	A	1122	CLA	C5-C6-C7-C8
21	B	1215	CLA	C5-C6-C7-C8
21	2	2012	CLA	C15-C16-C17-C18
20	1	1801	LHG	C15-C16-C17-C18
21	A	1137	CLA	O1A-CGA-O2A-C1
21	L	1502	CLA	C16-C17-C18-C20
21	2	2005	CLA	C16-C17-C18-C19
21	B	1206	CLA	C10-C11-C12-C13
20	A	7001	LHG	O1-C1-C2-O2
21	2	2003	CLA	CAA-CBA-CGA-O2A
21	1	1013	CLA	C3-C5-C6-C7
21	A	9013	CLA	C4-C3-C5-C6
21	B	1210	CLA	C4-C3-C5-C6
21	J	6015	CLA	C4-C3-C5-C6
21	4	4001	CLA	C4-C3-C5-C6
21	B	1210	CLA	C2-C3-C5-C6
21	A	1139	CLA	C16-C17-C18-C20
21	2	2011	CLA	C11-C12-C13-C15
20	A	7003	LHG	C24-C23-O8-C6
21	B	1206	CLA	CBA-CGA-O2A-C1
21	B	1208	CLA	CBA-CGA-O2A-C1
20	A	7001	LHG	C12-C13-C14-C15

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Mol	Chain	Res	Type	Atoms
18	B	5002	PQN	C18-C20-C21-C22
21	A	1104	CLA	C2-C1-O2A-CGA
21	A	1129	CLA	C2-C1-O2A-CGA
21	4	4013	CLA	C2-C1-O2A-CGA
21	1	1009	CLA	C3-C5-C6-C7
21	A	1126	CLA	CBA-CGA-O2A-C1
20	1	1801	LHG	O6-C4-C5-O7
21	2	2010	CLA	CAA-CBA-CGA-O2A
20	2	2801	LHG	O2-C2-C3-O3
21	A	1136	CLA	C8-C10-C11-C12
21	A	1136	CLA	C10-C11-C12-C13
21	B	1227	CLA	C5-C6-C7-C8
25	G	2021	LMG	C2-C1-O1-C7
20	A	7001	LHG	O7-C5-C6-O8
24	B	7101	DGD	O2G-C2G-C3G-O3G
20	A	7003	LHG	C31-C32-C33-C34
21	B	1208	CLA	O1A-CGA-O2A-C1
20	1	1801	LHG	C35-C36-C37-C38
21	1	1010	CLA	C4-C3-C5-C6
24	B	7101	DGD	C8A-C9A-CAA-CBA
18	B	5002	PQN	C17-C18-C20-C21
18	B	5002	PQN	C22-C23-C25-C26
21	A	1103	CLA	C11-C12-C13-C15
21	A	1132	CLA	C11-C12-C13-C15
21	A	1138	CLA	C11-C10-C8-C7
21	A	9013	CLA	C2-C3-C5-C6
21	B	1202	CLA	C12-C13-C15-C16
21	B	1210	CLA	C6-C7-C8-C10
21	B	1218	CLA	C11-C10-C8-C7
21	B	1222	CLA	C11-C10-C8-C7
21	B	1222	CLA	C11-C12-C13-C15
21	B	1225	CLA	C12-C13-C15-C16
21	B	1234	CLA	C6-C7-C8-C10
21	F	1303	CLA	C11-C10-C8-C7
21	J	1302	CLA	C11-C12-C13-C15
21	1	1013	CLA	C12-C13-C15-C16
21	2	2004	CLA	C6-C7-C8-C10
21	2	2006	CLA	C11-C10-C8-C7
21	2	2008	CLA	C11-C10-C8-C7
21	2	2012	CLA	C12-C13-C15-C16
21	4	4001	CLA	C2-C3-C5-C6
21	4	4001	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
21	4	4004	CLA	C6-C7-C8-C10
21	4	4011	CLA	C11-C12-C13-C15
23	A	9011	CL0	C11-C12-C13-C15
21	A	1101	CLA	C11-C10-C8-C9
21	A	1123	CLA	C11-C12-C13-C14
21	A	1126	CLA	C11-C12-C13-C14
21	A	1136	CLA	C6-C7-C8-C9
21	A	1136	CLA	C11-C12-C13-C14
21	A	1138	CLA	C11-C10-C8-C9
21	B	1202	CLA	C14-C13-C15-C16
21	B	1205	CLA	C11-C12-C13-C14
21	B	1210	CLA	C6-C7-C8-C9
21	B	1213	CLA	C6-C7-C8-C9
21	B	1215	CLA	C11-C10-C8-C9
21	B	1219	CLA	C11-C10-C8-C9
21	B	1223	CLA	C11-C12-C13-C14
21	B	1225	CLA	C14-C13-C15-C16
21	B	9010	CLA	C11-C12-C13-C14
21	B	9010	CLA	C14-C13-C15-C16
21	J	1302	CLA	C11-C12-C13-C14
21	J	6014	CLA	C11-C10-C8-C9
21	L	1502	CLA	C14-C13-C15-C16
21	1	1008	CLA	C14-C13-C15-C16
21	1	1009	CLA	C11-C12-C13-C14
21	1	1010	CLA	C11-C12-C13-C14
21	1	1013	CLA	C6-C7-C8-C9
21	2	2004	CLA	C6-C7-C8-C9
21	2	2005	CLA	C11-C10-C8-C9
21	2	2008	CLA	C11-C10-C8-C9
21	3	3008	CLA	C14-C13-C15-C16
21	4	4011	CLA	C11-C12-C13-C14
21	4	4015	CLA	CBD-CGD-O2D-CED
21	A	9012	CLA	CBA-CGA-O2A-C1
21	B	1223	CLA	CBA-CGA-O2A-C1
21	L	1502	CLA	CBA-CGA-O2A-C1
21	A	1121	CLA	C2A-CAA-CBA-CGA
21	A	1127	CLA	C2A-CAA-CBA-CGA
21	1	1010	CLA	C16-C17-C18-C20
21	2	2011	CLA	C11-C12-C13-C14
26	1	1502	LUT	C11-C12-C13-C14
26	4	4501	LUT	C31-C32-C33-C34
21	4	4013	CLA	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
20	1	1801	LHG	C10-C11-C12-C13
21	B	1236	CLA	CBA-CGA-O2A-C1
23	A	9011	CL0	CBA-CGA-O2A-C1
21	1	1009	CLA	C13-C15-C16-C17
20	A	7003	LHG	O6-C4-C5-C6
21	B	1223	CLA	C3-C5-C6-C7
24	B	7101	DGD	C1B-C2B-C3B-C4B
21	3	3008	CLA	C15-C16-C17-C18
21	2	2003	CLA	O1D-CGD-O2D-CED
21	4	4015	CLA	O1D-CGD-O2D-CED
18	B	5002	PQN	C14-C13-C15-C16
21	1	1005	CLA	C4-C3-C5-C6
21	2	2010	CLA	C4-C3-C5-C6
21	J	6015	CLA	C2-C3-C5-C6
21	1	1010	CLA	C2-C3-C5-C6
21	A	1119	CLA	C8-C10-C11-C12
21	A	1132	CLA	C16-C17-C18-C19
21	B	1238	CLA	C16-C17-C18-C20
21	2	2005	CLA	C5-C6-C7-C8
21	3	3006	CLA	C2A-CAA-CBA-CGA
21	B	1240	CLA	CBA-CGA-O2A-C1
21	B	1214	CLA	C10-C11-C12-C13
20	A	7003	LHG	C2-C3-O3-P
21	A	1105	CLA	C3A-C2A-CAA-CBA
21	A	1124	CLA	C3A-C2A-CAA-CBA
21	A	1140	CLA	C3A-C2A-CAA-CBA
21	B	1213	CLA	C3A-C2A-CAA-CBA
21	B	1214	CLA	C3A-C2A-CAA-CBA
21	3	3004	CLA	C3A-C2A-CAA-CBA
19	L	6020	BCR	C9-C10-C11-C12
21	1	1001	CLA	CBA-CGA-O2A-C1
20	A	7001	LHG	C25-C26-C27-C28
24	B	7101	DGD	C1G-C2G-C3G-O3G
25	J	5001	LMG	O1-C7-C8-C9
20	B	7004	LHG	C35-C36-C37-C38
21	B	1206	CLA	O1A-CGA-O2A-C1
21	1	1001	CLA	O1A-CGA-O2A-C1
21	B	9010	CLA	C5-C6-C7-C8
21	B	9023	CLA	C4C-C3C-CAC-CBC
21	2	2002	CLA	C5-C6-C7-C8
21	B	1224	CLA	C4-C3-C5-C6
21	B	1216	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	A	1106	CLA	C16-C17-C18-C19
21	A	1132	CLA	C16-C17-C18-C20
25	J	5001	LMG	C13-C14-C15-C16
21	A	1122	CLA	O1D-CGD-O2D-CED
21	B	1231	CLA	O1A-CGA-O2A-C1
21	1	1008	CLA	C3-C5-C6-C7
20	A	7003	LHG	O10-C23-O8-C6
21	A	1126	CLA	O1A-CGA-O2A-C1
21	A	9012	CLA	O1A-CGA-O2A-C1
23	A	9011	CL0	O1A-CGA-O2A-C1
21	L	1502	CLA	C16-C17-C18-C19
20	1	1801	LHG	C31-C32-C33-C34
21	1	1005	CLA	C5-C6-C7-C8
21	B	1236	CLA	O1A-CGA-O2A-C1
21	L	1502	CLA	O1A-CGA-O2A-C1
21	4	4005	CLA	C2C-C3C-CAC-CBC
20	A	7003	LHG	O7-C5-C6-O8
25	J	5001	LMG	O7-C8-C9-O8
21	B	9010	CLA	CBA-CGA-O2A-C1
19	B	6011	BCR	C9-C10-C11-C12
21	A	1119	CLA	C16-C17-C18-C19
21	A	1139	CLA	C16-C17-C18-C19
21	4	4011	CLA	C16-C17-C18-C20
21	2	2007	CLA	C2-C1-O2A-CGA
21	2	2007	CLA	C5-C6-C7-C8
20	A	7001	LHG	O8-C23-C24-C25
21	A	1104	CLA	C6-C7-C8-C9
21	A	1126	CLA	C6-C7-C8-C9
21	A	1127	CLA	C14-C13-C15-C16
21	A	1132	CLA	C11-C12-C13-C14
21	B	1211	CLA	C11-C10-C8-C9
21	B	1222	CLA	C6-C7-C8-C9
21	1	1004	CLA	C14-C13-C15-C16
21	1	1013	CLA	C11-C10-C8-C9
21	3	3006	CLA	C14-C13-C15-C16
21	4	4012	CLA	C14-C13-C15-C16
20	B	7004	LHG	C11-C12-C13-C14
20	1	1801	LHG	C28-C29-C30-C31
21	2	2013	CLA	C8-C10-C11-C12
21	A	1129	CLA	C2A-CAA-CBA-CGA
21	1	1012	CLA	C2A-CAA-CBA-CGA
19	A	6002	BCR	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
19	A	6002	BCR	C23-C24-C25-C30
19	A	6003	BCR	C23-C24-C25-C30
19	B	6004	BCR	C23-C24-C25-C30
19	B	6009	BCR	C23-C24-C25-C26
19	B	6009	BCR	C23-C24-C25-C30
19	G	2011	BCR	C5-C6-C7-C8
26	4	4501	LUT	C1-C6-C7-C8
21	A	1103	CLA	C15-C16-C17-C18
21	A	1139	CLA	C5-C6-C7-C8
21	3	3008	CLA	C8-C10-C11-C12
21	3	3013	CLA	CAA-CBA-CGA-O2A
21	B	9010	CLA	O1A-CGA-O2A-C1
19	A	6008	BCR	C11-C12-C13-C14
26	1	1502	LUT	C7-C8-C9-C10
21	A	9012	CLA	C8-C10-C11-C12
21	1	1011	CLA	C15-C16-C17-C18
21	B	1210	CLA	C8-C10-C11-C12
21	A	1116	CLA	C6-C7-C8-C9
21	2	2005	CLA	C16-C17-C18-C20
21	A	1125	CLA	C2C-C3C-CAC-CBC
21	A	1131	CLA	C4C-C3C-CAC-CBC
21	A	1101	CLA	C11-C10-C8-C7
21	A	1104	CLA	C6-C7-C8-C10
21	A	1119	CLA	C11-C10-C8-C7
21	A	1126	CLA	C12-C13-C15-C16
21	A	1127	CLA	C12-C13-C15-C16
21	A	1132	CLA	C6-C7-C8-C10
21	A	1136	CLA	C6-C7-C8-C10
21	A	1136	CLA	C11-C12-C13-C15
21	A	1136	CLA	C12-C13-C15-C16
21	B	1202	CLA	C6-C7-C8-C10
21	B	1205	CLA	C11-C12-C13-C15
21	B	1213	CLA	C6-C7-C8-C10
21	B	1215	CLA	C11-C10-C8-C7
21	B	1223	CLA	C11-C12-C13-C15
21	B	1224	CLA	C2-C3-C5-C6
21	B	1229	CLA	C11-C10-C8-C7
21	B	9010	CLA	C11-C12-C13-C15
21	B	9010	CLA	C12-C13-C15-C16
21	J	6014	CLA	C6-C7-C8-C10
21	L	1502	CLA	C12-C13-C15-C16
21	1	1003	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
21	1	1005	CLA	C2-C3-C5-C6
21	1	1008	CLA	C12-C13-C15-C16
21	1	1013	CLA	C6-C7-C8-C10
21	3	3008	CLA	C12-C13-C15-C16
21	4	4004	CLA	C11-C10-C8-C7
21	4	4012	CLA	C12-C13-C15-C16
21	B	1240	CLA	O1A-CGA-O2A-C1
19	A	6002	BCR	C19-C20-C21-C22
19	A	6007	BCR	C13-C14-C15-C16
19	A	6011	BCR	C19-C20-C21-C22
19	B	6011	BCR	C13-C14-C15-C16
19	G	2011	BCR	C19-C20-C21-C22
19	I	6020	BCR	C19-C20-C21-C22
19	L	6020	BCR	C19-C20-C21-C22
26	2	2501	LUT	C29-C30-C31-C32
21	1	1010	CLA	C16-C17-C18-C19
21	2	2010	CLA	C16-C17-C18-C20
21	B	1213	CLA	CAA-CBA-CGA-O2A
21	B	1238	CLA	C2A-CAA-CBA-CGA
21	B	1240	CLA	C2A-CAA-CBA-CGA
21	3	3017	CLA	C2A-CAA-CBA-CGA
20	1	1801	LHG	C34-C35-C36-C37
21	B	9022	CLA	CBA-CGA-O2A-C1
21	B	1223	CLA	O1A-CGA-O2A-C1
21	A	1101	CLA	CAD-CBD-CGD-O2D
21	A	1130	CLA	CAD-CBD-CGD-O2D
21	A	1135	CLA	CAD-CBD-CGD-O2D
21	A	1137	CLA	CAD-CBD-CGD-O2D
21	B	1202	CLA	CAD-CBD-CGD-O2D
21	B	1217	CLA	CAD-CBD-CGD-O2D
21	1	1007	CLA	CAD-CBD-CGD-O2D
21	2	2003	CLA	CAD-CBD-CGD-O2D
21	2	2011	CLA	CAD-CBD-CGD-O2D
21	4	4015	CLA	CAD-CBD-CGD-O2D
21	B	1224	CLA	C13-C15-C16-C17
21	4	4012	CLA	C13-C15-C16-C17
21	A	1116	CLA	CBA-CGA-O2A-C1
21	B	1238	CLA	CBA-CGA-O2A-C1
21	3	3006	CLA	C16-C17-C18-C19
24	B	7101	DGD	CEB-CFB-CGB-CHB
21	1	1009	CLA	C10-C11-C12-C13
25	J	5001	LMG	C11-C10-O7-C8

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Mol	Chain	Res	Type	Atoms
21	A	1140	CLA	C3-C5-C6-C7
21	1	1001	CLA	C3-C5-C6-C7
21	A	1125	CLA	C2A-CAA-CBA-CGA
21	3	3003	CLA	C8-C10-C11-C12
21	B	1238	CLA	C16-C17-C18-C19
21	A	1102	CLA	CHA-CBD-CGD-O1D
21	A	1102	CLA	CHA-CBD-CGD-O2D
21	A	1110	CLA	CHA-CBD-CGD-O1D
21	A	1110	CLA	CHA-CBD-CGD-O2D
21	A	1114	CLA	CHA-CBD-CGD-O1D
21	A	1114	CLA	CHA-CBD-CGD-O2D
21	A	1117	CLA	CHA-CBD-CGD-O1D
21	A	1117	CLA	CHA-CBD-CGD-O2D
21	A	1118	CLA	CHA-CBD-CGD-O1D
21	A	1118	CLA	CHA-CBD-CGD-O2D
21	A	1121	CLA	CHA-CBD-CGD-O1D
21	A	1122	CLA	CHA-CBD-CGD-O2D
21	A	1123	CLA	CHA-CBD-CGD-O1D
21	A	1123	CLA	CHA-CBD-CGD-O2D
21	A	1128	CLA	CHA-CBD-CGD-O1D
21	A	1128	CLA	CHA-CBD-CGD-O2D
21	A	1129	CLA	CHA-CBD-CGD-O1D
21	A	1134	CLA	CHA-CBD-CGD-O2D
21	A	1138	CLA	CHA-CBD-CGD-O1D
21	A	1138	CLA	CHA-CBD-CGD-O2D
21	B	1207	CLA	CHA-CBD-CGD-O2D
21	B	1209	CLA	CHA-CBD-CGD-O1D
21	B	1209	CLA	CHA-CBD-CGD-O2D
21	B	1210	CLA	CHA-CBD-CGD-O2D
21	B	1212	CLA	CHA-CBD-CGD-O1D
21	B	1227	CLA	CHA-CBD-CGD-O2D
21	B	1234	CLA	CHA-CBD-CGD-O1D
21	B	1235	CLA	CHA-CBD-CGD-O1D
21	B	1235	CLA	CHA-CBD-CGD-O2D
21	L	1501	CLA	CHA-CBD-CGD-O1D
21	1	1009	CLA	CHA-CBD-CGD-O2D
21	2	2005	CLA	CHA-CBD-CGD-O1D
21	2	2006	CLA	CHA-CBD-CGD-O1D
21	2	2006	CLA	CHA-CBD-CGD-O2D
21	3	3001	CLA	CHA-CBD-CGD-O1D
21	3	3001	CLA	CHA-CBD-CGD-O2D
21	3	3008	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
21	3	3008	CLA	CHA-CBD-CGD-O2D
21	3	3009	CLA	CHA-CBD-CGD-O1D
21	3	3009	CLA	CHA-CBD-CGD-O2D
21	3	3012	CLA	CHA-CBD-CGD-O1D
21	3	3012	CLA	CHA-CBD-CGD-O2D
21	3	3014	CLA	CHA-CBD-CGD-O1D
21	4	4001	CLA	CHA-CBD-CGD-O1D
21	4	4001	CLA	CHA-CBD-CGD-O2D
21	4	4004	CLA	CHA-CBD-CGD-O1D
21	4	4004	CLA	CHA-CBD-CGD-O2D
21	4	4006	CLA	CHA-CBD-CGD-O2D
21	J	6015	CLA	C4C-C3C-CAC-CBC
21	B	9022	CLA	O1A-CGA-O2A-C1
25	J	5001	LMG	O1-C7-C8-O7
20	A	7003	LHG	C13-C14-C15-C16
21	2	2012	CLA	C16-C17-C18-C19
21	2	2012	CLA	C4-C3-C5-C6
25	J	5001	LMG	O9-C10-O7-C8
21	1	1013	CLA	C10-C11-C12-C13
21	1	1003	CLA	C11-C10-C8-C9
21	2	2003	CLA	C11-C10-C8-C9
21	B	1240	CLA	C4C-C3C-CAC-CBC
20	A	7003	LHG	C32-C33-C34-C35
21	B	1218	CLA	C8-C10-C11-C12
21	B	1219	CLA	C8-C10-C11-C12
21	B	1215	CLA	C3-C5-C6-C7
19	L	6019	BCR	C36-C18-C19-C20
21	B	1212	CLA	C1A-C2A-CAA-CBA
21	3	3004	CLA	C1A-C2A-CAA-CBA
18	B	5002	PQN	C26-C27-C28-C29
21	L	1503	CLA	C2-C1-O2A-CGA
21	1	1008	CLA	C8-C10-C11-C12
20	A	7003	LHG	C3-O3-P-O6
21	A	1110	CLA	C4-C3-C5-C6
21	J	1302	CLA	C4-C3-C5-C6
21	A	1136	CLA	C3-C5-C6-C7
21	B	1214	CLA	C3-C5-C6-C7
21	1	1002	CLA	C3-C5-C6-C7
18	B	5002	PQN	C12-C13-C15-C16
21	2	2010	CLA	C2-C3-C5-C6
21	A	1116	CLA	O1A-CGA-O2A-C1
21	B	1216	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
20	A	7001	LHG	C4-O6-P-O5
20	1	1801	LHG	C4-O6-P-O5
20	2	2801	LHG	C3-O3-P-O4
20	2	2801	LHG	C4-O6-P-O4
21	B	1236	CLA	C6-C7-C8-C10
21	B	1240	CLA	C13-C15-C16-C17
21	2	2010	CLA	C5-C6-C7-C8
21	3	3008	CLA	C2C-C3C-CAC-CBC
21	A	9012	CLA	C3-C5-C6-C7
21	4	4003	CLA	C3-C5-C6-C7
21	1	1011	CLA	C13-C15-C16-C17
21	B	1225	CLA	C16-C17-C18-C19
21	A	1143	CLA	CAD-CBD-CGD-O1D
21	B	1212	CLA	CAD-CBD-CGD-O1D
21	B	1227	CLA	CAD-CBD-CGD-O1D
21	B	1228	CLA	C2-C3-C5-C6
21	B	1234	CLA	CAD-CBD-CGD-O1D
21	B	1235	CLA	CAD-CBD-CGD-O1D
21	1	1010	CLA	CAD-CBD-CGD-O1D
21	3	3010	CLA	CAD-CBD-CGD-O1D
21	3	3016	CLA	CAD-CBD-CGD-O1D
21	3	3014	CLA	CAD-CBD-CGD-O1D
21	4	4013	CLA	C2-C3-C5-C6
21	A	1140	CLA	C15-C16-C17-C18
20	2	2801	LHG	C1-C2-C3-O3
21	A	1123	CLA	C16-C17-C18-C20
21	A	1127	CLA	C16-C17-C18-C20
18	A	5001	PQN	C16-C17-C18-C20
18	A	5001	PQN	C17-C18-C20-C21
20	B	7004	LHG	O6-C4-C5-O7
21	A	1101	CLA	C11-C12-C13-C15
21	A	1104	CLA	C11-C12-C13-C15
21	A	1138	CLA	C3A-C2A-CAA-CBA
21	B	1215	CLA	C6-C7-C8-C10
21	B	1220	CLA	C11-C10-C8-C7
21	B	1222	CLA	C6-C7-C8-C10
21	B	1223	CLA	C6-C7-C8-C10
21	B	1235	CLA	C6-C7-C8-C10
21	F	1303	CLA	C12-C13-C15-C16
21	1	1003	CLA	C6-C7-C8-C10
21	1	1009	CLA	C12-C13-C15-C16
21	2	2003	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
21	2	2005	CLA	C6-C7-C8-C10
21	4	4004	CLA	C11-C12-C13-C15
26	2	2502	LUT	C25-C26-C27-C28
19	B	6006	BCR	C19-C20-C21-C22
26	1	1502	LUT	C9-C10-C11-C12
21	A	1127	CLA	CAA-CBA-CGA-O2A
21	B	1238	CLA	O1A-CGA-O2A-C1
21	4	4012	CLA	C2A-CAA-CBA-CGA
21	A	1119	CLA	C16-C17-C18-C20
21	B	1237	CLA	C11-C12-C13-C15
21	B	1239	CLA	C16-C17-C18-C19
25	G	2021	LMG	O1-C7-C8-C9
20	A	7001	LHG	C34-C35-C36-C37
21	4	4015	CLA	CAA-CBA-CGA-O2A
18	B	5002	PQN	C26-C27-C28-C30
21	1	1003	CLA	C13-C15-C16-C17
20	2	2801	LHG	C2-C3-O3-P
20	1	1801	LHG	C19-C20-C21-C22
24	B	7101	DGD	C5A-C6A-C7A-C8A
21	A	1103	CLA	C6-C7-C8-C9
21	A	1103	CLA	C11-C12-C13-C14
21	A	1119	CLA	C11-C10-C8-C9
21	A	1131	CLA	C11-C12-C13-C14
21	A	1132	CLA	C6-C7-C8-C9
21	B	1202	CLA	C6-C7-C8-C9
21	1	1009	CLA	C11-C10-C8-C9
21	2	2006	CLA	C11-C10-C8-C9
21	2	2010	CLA	C11-C12-C13-C14
21	4	4004	CLA	C11-C10-C8-C9
21	B	1224	CLA	C3-C5-C6-C7
21	B	1235	CLA	C3-C5-C6-C7
21	2	2004	CLA	C3-C5-C6-C7
21	4	4006	CLA	C2C-C3C-CAC-CBC
19	B	6006	BCR	C18-C19-C20-C21
19	J	6012	BCR	C18-C19-C20-C21
21	A	1113	CLA	CBA-CGA-O2A-C1
21	J	1302	CLA	CAA-CBA-CGA-O2A
21	B	1239	CLA	C16-C17-C18-C20
21	1	1011	CLA	C2C-C3C-CAC-CBC
21	A	1127	CLA	C13-C15-C16-C17
20	1	1801	LHG	C6-C5-O7-C7
21	B	1227	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
21	1	1007	CLA	C2-C1-O2A-CGA
23	A	9011	CL0	C2-C1-O2A-CGA
20	2	2801	LHG	C10-C11-C12-C13
23	A	9011	CL0	CAA-CBA-CGA-O2A
21	A	9013	CLA	C15-C16-C17-C18
18	A	5001	PQN	C13-C15-C16-C17
24	B	7101	DGD	C3A-C4A-C5A-C6A
21	2	2004	CLA	CHA-CBD-CGD-O1D
21	2	2004	CLA	CHA-CBD-CGD-O2D
21	B	9023	CLA	C10-C11-C12-C13
19	A	6003	BCR	C23-C24-C25-C26
21	2	2012	CLA	C2-C3-C5-C6
20	A	7003	LHG	C14-C15-C16-C17
21	2	2014	CLA	C2C-C3C-CAC-CBC
21	2	2012	CLA	C16-C17-C18-C20
21	3	3014	CLA	C2A-CAA-CBA-CGA
20	A	7001	LHG	C3-O3-P-O6
24	B	7101	DGD	C4A-C5A-C6A-C7A
21	4	4004	CLA	C16-C17-C18-C20
25	J	5001	LMG	C7-C8-C9-O8
21	1	1011	CLA	C4-C3-C5-C6
21	A	1122	CLA	C10-C11-C12-C13
21	B	1227	CLA	C6-C7-C8-C10
21	1	1003	CLA	C11-C12-C13-C15
18	A	5001	PQN	C16-C17-C18-C19
18	A	5001	PQN	C19-C18-C20-C21
21	A	1101	CLA	C11-C12-C13-C14
21	A	1104	CLA	C11-C12-C13-C14
21	B	1223	CLA	C6-C7-C8-C9
21	B	1225	CLA	C11-C12-C13-C14
21	B	1234	CLA	C6-C7-C8-C9
21	3	3001	CLA	C14-C13-C15-C16
19	A	6002	BCR	C9-C10-C11-C12
19	A	6007	BCR	C19-C20-C21-C22
21	B	1236	CLA	C6-C7-C8-C9
21	3	3006	CLA	C16-C17-C18-C20
20	A	7001	LHG	C35-C36-C37-C38
21	B	1209	CLA	C2A-CAA-CBA-CGA
25	J	5001	LMG	C33-C34-C35-C36
19	I	6018	BCR	C36-C18-C19-C20
21	B	1237	CLA	C11-C12-C13-C14
21	A	1120	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
21	B	1238	CLA	C13-C15-C16-C17
23	A	9011	CL0	C5-C6-C7-C8
21	1	1005	CLA	C11-C10-C8-C7
21	B	1225	CLA	C16-C17-C18-C20
21	2	2013	CLA	C15-C16-C17-C18
20	1	1801	LHG	C17-C18-C19-C20
21	A	1139	CLA	C15-C16-C17-C18
21	4	4006	CLA	C4C-C3C-CAC-CBC
21	2	2010	CLA	CAA-CBA-CGA-O1A
19	A	6008	BCR	C19-C20-C21-C22
19	A	6017	BCR	C9-C10-C11-C12
19	L	6019	BCR	C13-C14-C15-C16
20	B	7004	LHG	C29-C30-C31-C32
19	B	6006	BCR	C10-C11-C12-C13
23	A	9011	CL0	C3-C5-C6-C7
21	4	4002	CLA	C5-C6-C7-C8
21	A	1110	CLA	C2-C3-C5-C6
21	B	1226	CLA	C8-C10-C11-C12
21	1	1003	CLA	C15-C16-C17-C18
21	3	3001	CLA	C5-C6-C7-C8
21	2	2003	CLA	C5-C6-C7-C8
21	2	2013	CLA	C16-C17-C18-C20
21	2	2014	CLA	C4C-C3C-CAC-CBC
21	3	3013	CLA	C2A-CAA-CBA-CGA
21	A	1127	CLA	C3A-C2A-CAA-CBA
21	B	1223	CLA	C3A-C2A-CAA-CBA
21	B	1227	CLA	C3A-C2A-CAA-CBA
21	G	1002	CLA	C3A-C2A-CAA-CBA
21	2	2007	CLA	C3A-C2A-CAA-CBA
21	3	3002	CLA	CAA-CBA-CGA-O2A
19	B	6005	BCR	C19-C20-C21-C22
19	F	6016	BCR	C19-C20-C21-C22
21	J	1302	CLA	C2-C3-C5-C6
21	B	1224	CLA	C11-C10-C8-C9
21	B	1227	CLA	C14-C13-C15-C16
21	1	1004	CLA	C6-C7-C8-C9
21	2	2005	CLA	C11-C12-C13-C14
21	3	3005	CLA	CAA-CBA-CGA-O2A
21	A	1109	CLA	C13-C15-C16-C17
19	A	6011	BCR	C20-C21-C22-C37
19	A	6017	BCR	C35-C13-C14-C15
19	A	6017	BCR	C16-C17-C18-C36

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Mol	Chain	Res	Type	Atoms
19	B	6005	BCR	C16-C17-C18-C36
19	B	6010	BCR	C16-C17-C18-C36
19	F	6016	BCR	C16-C17-C18-C36
19	G	2011	BCR	C16-C17-C18-C36
19	I	6020	BCR	C16-C17-C18-C36
19	I	6020	BCR	C20-C21-C22-C37
19	J	6012	BCR	C20-C21-C22-C37
26	4	4502	LUT	C7-C8-C9-C19
21	A	1108	CLA	C1A-C2A-CAA-CBA
21	A	1140	CLA	C1A-C2A-CAA-CBA
21	B	1213	CLA	C1A-C2A-CAA-CBA
21	B	1223	CLA	C1A-C2A-CAA-CBA
21	B	1230	CLA	C1A-C2A-CAA-CBA
21	2	2007	CLA	C1A-C2A-CAA-CBA
21	2	2011	CLA	C1A-C2A-CAA-CBA
21	4	4002	CLA	C1A-C2A-CAA-CBA
21	A	9013	CLA	C11-C12-C13-C15
21	B	1239	CLA	C12-C13-C15-C16
21	1	1005	CLA	C6-C7-C8-C10
21	1	1011	CLA	C11-C10-C8-C7
21	1	1011	CLA	C12-C13-C15-C16
21	2	2005	CLA	C12-C13-C15-C16
21	2	2008	CLA	C6-C7-C8-C10
21	4	4006	CLA	C12-C13-C15-C16
21	4	4011	CLA	C6-C7-C8-C10
21	3	3005	CLA	CAA-CBA-CGA-O1A
19	B	6009	BCR	C19-C20-C21-C22
21	2	2003	CLA	CAA-CBA-CGA-O1A
21	B	1239	CLA	C2A-CAA-CBA-CGA
21	A	1127	CLA	C8-C10-C11-C12
21	A	1139	CLA	C8-C10-C11-C12
21	B	9022	CLA	C10-C11-C12-C13
21	G	1001	CLA	C5-C6-C7-C8
21	3	3006	CLA	C15-C16-C17-C18
21	B	1236	CLA	C5-C6-C7-C8
21	2	2002	CLA	C8-C10-C11-C12
21	A	1125	CLA	C4C-C3C-CAC-CBC
21	4	4004	CLA	C2C-C3C-CAC-CBC
21	B	1229	CLA	C15-C16-C17-C18
21	B	9022	CLA	C13-C15-C16-C17
21	1	1011	CLA	C2-C3-C5-C6
21	A	1138	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
21	A	1139	CLA	C10-C11-C12-C13
21	1	1001	CLA	C5-C6-C7-C8
20	1	1801	LHG	C18-C19-C20-C21
19	A	6011	BCR	C20-C21-C22-C23
19	A	6017	BCR	C12-C13-C14-C15
19	A	6017	BCR	C16-C17-C18-C19
19	B	6010	BCR	C16-C17-C18-C19
19	F	6016	BCR	C16-C17-C18-C19
19	G	2011	BCR	C16-C17-C18-C19
19	I	6020	BCR	C16-C17-C18-C19
19	I	6020	BCR	C20-C21-C22-C23
19	J	6012	BCR	C20-C21-C22-C23
20	1	1801	LHG	C11-C12-C13-C14
21	B	1224	CLA	CBA-CGA-O2A-C1
21	L	1503	CLA	CBA-CGA-O2A-C1
19	A	6003	BCR	C13-C14-C15-C16
19	F	6014	BCR	C19-C20-C21-C22
20	2	2801	LHG	C24-C25-C26-C27
21	A	1119	CLA	C4-C3-C5-C6
21	A	1127	CLA	C4-C3-C5-C6
21	2	2005	CLA	C4-C3-C5-C6
21	B	1220	CLA	C2-C1-O2A-CGA
21	4	4001	CLA	C2-C1-O2A-CGA
21	B	1228	CLA	C4-C3-C5-C6
21	4	4013	CLA	C4-C3-C5-C6
21	3	3011	CLA	CAA-CBA-CGA-O2A
21	A	1131	CLA	C2A-CAA-CBA-CGA
21	A	1132	CLA	C2A-CAA-CBA-CGA
21	F	1302	CLA	C2A-CAA-CBA-CGA
21	B	1226	CLA	C2C-C3C-CAC-CBC
21	L	1503	CLA	O1A-CGA-O2A-C1
21	A	1125	CLA	C5-C6-C7-C8
21	3	3012	CLA	CAA-CBA-CGA-O2A
19	F	6014	BCR	C9-C10-C11-C12
19	J	6012	BCR	C19-C20-C21-C22
19	J	6013	BCR	C9-C10-C11-C12
26	4	4502	LUT	C33-C34-C35-C15
27	4	4503	NEX	C13-C14-C15-C35
19	B	6010	BCR	C7-C8-C9-C10
19	L	6019	BCR	C17-C18-C19-C20
21	B	1224	CLA	O1A-CGA-O2A-C1
21	2	2014	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
21	B	1240	CLA	CAA-CBA-CGA-O2A
20	A	7001	LHG	C19-C20-C21-C22
21	B	1237	CLA	C8-C10-C11-C12
21	A	1143	CLA	C2A-CAA-CBA-CGA
24	B	7101	DGD	CDB-CEB-CFB-CGB
21	B	1210	CLA	C5-C6-C7-C8
20	1	1801	LHG	O6-C4-C5-C6
21	B	1211	CLA	C4-C3-C5-C6
21	F	1303	CLA	CAA-CBA-CGA-O2A
21	A	1119	CLA	C2-C3-C5-C6
21	B	1224	CLA	C11-C10-C8-C7
21	J	1302	CLA	C11-C10-C8-C7
21	1	1004	CLA	C6-C7-C8-C10
21	1	1009	CLA	C11-C10-C8-C7
21	2	2010	CLA	C11-C10-C8-C7
21	3	3006	CLA	C12-C13-C15-C16
21	4	4007	CLA	C11-C12-C13-C15
21	B	1218	CLA	C11-C12-C13-C15
21	J	1302	CLA	O1A-CGA-O2A-C1
21	L	1502	CLA	C13-C15-C16-C17
21	2	2014	CLA	CAA-CBA-CGA-O1A
21	B	1210	CLA	CAA-CBA-CGA-O2A
21	B	1217	CLA	C2A-CAA-CBA-CGA
21	B	1223	CLA	C2A-CAA-CBA-CGA
21	A	1109	CLA	C5-C6-C7-C8
21	4	4004	CLA	C8-C10-C11-C12
21	J	6015	CLA	C6-C7-C8-C9
20	B	7004	LHG	O7-C7-C8-C9
21	2	2006	CLA	CAA-CBA-CGA-O2A
21	A	1128	CLA	C4-C3-C5-C6
21	B	1205	CLA	C4-C3-C5-C6
21	1	1008	CLA	C4-C3-C5-C6
21	B	1240	CLA	C10-C11-C12-C13
21	A	1139	CLA	C14-C13-C15-C16
21	B	1202	CLA	C11-C10-C8-C9
21	B	1227	CLA	C11-C12-C13-C14
21	B	1235	CLA	C6-C7-C8-C9
21	B	1239	CLA	C14-C13-C15-C16
21	B	1240	CLA	C14-C13-C15-C16
21	F	1303	CLA	C14-C13-C15-C16
21	1	1013	CLA	C14-C13-C15-C16
21	2	2005	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
21	4	4006	CLA	C14-C13-C15-C16
21	2	2009	CLA	C3A-C2A-CAA-CBA
21	3	3012	CLA	C3A-C2A-CAA-CBA
21	3	3014	CLA	C3A-C2A-CAA-CBA
21	A	1111	CLA	CAD-CBD-CGD-O2D
21	A	1120	CLA	CAD-CBD-CGD-O2D
21	G	1001	CLA	CAD-CBD-CGD-O2D
21	1	1002	CLA	CAD-CBD-CGD-O2D
21	1	1006	CLA	CAD-CBD-CGD-O2D
21	2	2005	CLA	CAD-CBD-CGD-O2D
21	3	3002	CLA	CAD-CBD-CGD-O2D
26	4	4502	LUT	C13-C14-C15-C35
21	1	1011	CLA	C4C-C3C-CAC-CBC
20	B	7004	LHG	C9-C10-C11-C12
21	A	1138	CLA	C4-C3-C5-C6
21	B	1235	CLA	C4-C3-C5-C6
21	B	1207	CLA	C16-C17-C18-C20
21	B	1205	CLA	C2-C3-C5-C6
21	A	1103	CLA	CAA-CBA-CGA-O2A
19	I	6018	BCR	C17-C18-C19-C20
26	4	4502	LUT	C27-C28-C29-C30
21	J	6014	CLA	CAA-CBA-CGA-O2A
21	A	1143	CLA	CAA-CBA-CGA-O2A
21	B	1224	CLA	C2A-CAA-CBA-CGA
21	A	1114	CLA	CAA-CBA-CGA-O2A
21	A	1143	CLA	CAA-CBA-CGA-O1A
21	3	3012	CLA	CAA-CBA-CGA-O1A
21	A	1113	CLA	O1A-CGA-O2A-C1
20	A	7001	LHG	O10-C23-C24-C25
21	A	1103	CLA	CHA-CBD-CGD-O1D
21	A	1103	CLA	CHA-CBD-CGD-O2D
21	A	1107	CLA	CHA-CBD-CGD-O1D
21	A	1107	CLA	CHA-CBD-CGD-O2D
21	A	1136	CLA	CHA-CBD-CGD-O1D
21	A	1136	CLA	CHA-CBD-CGD-O2D
21	A	1142	CLA	CHA-CBD-CGD-O1D
21	A	1142	CLA	CHA-CBD-CGD-O2D
21	B	1201	CLA	CHA-CBD-CGD-O1D
21	B	1204	CLA	CHA-CBD-CGD-O1D
21	B	1204	CLA	CHA-CBD-CGD-O2D
21	B	1212	CLA	CHA-CBD-CGD-O2D
21	B	1213	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
21	B	1213	CLA	CHA-CBD-CGD-O2D
21	B	1234	CLA	CHA-CBD-CGD-O2D
21	B	1237	CLA	CHA-CBD-CGD-O1D
21	B	1237	CLA	CHA-CBD-CGD-O2D
21	H	1000	CLA	CHA-CBD-CGD-O1D
21	H	1000	CLA	CHA-CBD-CGD-O2D
21	J	1302	CLA	CHA-CBD-CGD-O2D
21	L	1501	CLA	CHA-CBD-CGD-O2D
21	L	1502	CLA	CHA-CBD-CGD-O2D
21	1	1004	CLA	CHA-CBD-CGD-O2D
21	1	1007	CLA	CHA-CBD-CGD-O1D
21	1	1009	CLA	CHA-CBD-CGD-O1D
21	2	2005	CLA	CHA-CBD-CGD-O2D
21	2	2010	CLA	CHA-CBD-CGD-O1D
21	2	2010	CLA	CHA-CBD-CGD-O2D
21	3	3002	CLA	CHA-CBD-CGD-O1D
21	3	3002	CLA	CHA-CBD-CGD-O2D
21	3	3004	CLA	CHA-CBD-CGD-O2D
21	3	3014	CLA	CHA-CBD-CGD-O2D
21	4	4006	CLA	CHA-CBD-CGD-O1D
21	4	4009	CLA	CHA-CBD-CGD-O1D
21	4	4009	CLA	CHA-CBD-CGD-O2D
21	B	1238	CLA	CAA-CBA-CGA-O2A
19	B	6005	BCR	C16-C17-C18-C19
21	B	1208	CLA	CAA-CBA-CGA-O2A
20	A	7003	LHG	O8-C23-C24-C25
21	B	1235	CLA	CAA-CBA-CGA-O2A
21	4	4007	CLA	CAA-CBA-CGA-O2A
21	A	1122	CLA	C11-C12-C13-C14
21	1	1014	CLA	CAA-CBA-CGA-O2A
21	J	1302	CLA	CBA-CGA-O2A-C1
21	A	1105	CLA	CAA-CBA-CGA-O2A
21	A	1111	CLA	C11-C10-C8-C7
21	B	1240	CLA	C12-C13-C15-C16
21	1	1011	CLA	C11-C12-C13-C15
21	4	4006	CLA	C6-C7-C8-C10
21	A	9013	CLA	C11-C12-C13-C14
21	F	1303	CLA	C11-C10-C8-C9
21	1	1009	CLA	C14-C13-C15-C16
21	1	1011	CLA	C11-C12-C13-C14
21	1	1011	CLA	C14-C13-C15-C16
21	2	2006	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
21	2	2008	CLA	C11-C12-C13-C14
21	2	2010	CLA	C11-C10-C8-C9
27	4	4503	NEX	C33-C34-C35-C15
21	4	4004	CLA	C13-C15-C16-C17
21	J	6015	CLA	C6-C7-C8-C10
21	A	1106	CLA	C4-C3-C5-C6
21	1	1006	CLA	CAA-CBA-CGA-O2A
21	1	1014	CLA	CAA-CBA-CGA-O1A
21	A	1138	CLA	C1A-C2A-CAA-CBA
21	B	1222	CLA	C1A-C2A-CAA-CBA
21	1	1014	CLA	C1A-C2A-CAA-CBA
21	2	2005	CLA	C1A-C2A-CAA-CBA
21	2	2010	CLA	C1A-C2A-CAA-CBA
21	3	3005	CLA	C1A-C2A-CAA-CBA
21	3	3014	CLA	C1A-C2A-CAA-CBA
21	4	4005	CLA	C1A-C2A-CAA-CBA
21	4	4009	CLA	C1A-C2A-CAA-CBA
21	4	4010	CLA	C1A-C2A-CAA-CBA
21	B	1238	CLA	CAA-CBA-CGA-O1A
21	J	6014	CLA	CAA-CBA-CGA-O1A
21	B	1226	CLA	C5-C6-C7-C8
21	B	1210	CLA	CAA-CBA-CGA-O1A
21	3	3013	CLA	CAA-CBA-CGA-O1A
21	1	1004	CLA	C2A-CAA-CBA-CGA
21	2	2004	CLA	CAD-CBD-CGD-O2D
21	B	1203	CLA	C11-C12-C13-C15
21	4	4003	CLA	C16-C17-C18-C19
20	B	7004	LHG	O9-C7-C8-C9
21	2	2006	CLA	CAA-CBA-CGA-O1A
21	2	2007	CLA	C4-C3-C5-C6
21	A	1113	CLA	CAA-CBA-CGA-O2A
21	B	1214	CLA	CAA-CBA-CGA-O2A
21	A	1106	CLA	C3-C5-C6-C7
20	A	7001	LHG	C3-O3-P-O5
20	A	7003	LHG	O10-C23-C24-C25
21	A	1103	CLA	CAA-CBA-CGA-O1A
21	H	1000	CLA	CAA-CBA-CGA-O2A
19	G	2011	BCR	C23-C24-C25-C26
19	J	6013	BCR	C1-C6-C7-C8
26	1	1502	LUT	C1-C6-C7-C8
21	B	1209	CLA	CAA-CBA-CGA-O2A
21	B	1234	CLA	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
21	B	1237	CLA	C2A-CAA-CBA-CGA
21	A	1105	CLA	CAA-CBA-CGA-O1A
21	B	1207	CLA	C4C-C3C-CAC-CBC
21	B	1202	CLA	CAA-CBA-CGA-O2A
21	4	4011	CLA	C8-C10-C11-C12
20	A	7001	LHG	C16-C17-C18-C19
21	3	3017	CLA	CAA-CBA-CGA-O2A
21	A	1121	CLA	CAD-CBD-CGD-O1D
21	A	1127	CLA	CAD-CBD-CGD-O1D
21	A	1132	CLA	CAD-CBD-CGD-O1D
21	B	1219	CLA	CAD-CBD-CGD-O1D
21	1	1002	CLA	CAD-CBD-CGD-O1D
21	1	1011	CLA	CAD-CBD-CGD-O1D
21	1	1013	CLA	CAD-CBD-CGD-O1D
21	3	3006	CLA	CAD-CBD-CGD-O1D
21	4	4010	CLA	CAD-CBD-CGD-O1D
21	B	1208	CLA	CAA-CBA-CGA-O1A
21	B	1235	CLA	CAA-CBA-CGA-O1A
21	A	1107	CLA	CAA-CBA-CGA-O2A
21	1	1008	CLA	CAA-CBA-CGA-O2A
21	2	2004	CLA	CAA-CBA-CGA-O2A
21	2	2008	CLA	CAA-CBA-CGA-O2A
21	4	4006	CLA	CAA-CBA-CGA-O2A
21	A	1131	CLA	C5-C6-C7-C8
18	B	5002	PQN	C19-C18-C20-C21
21	A	1111	CLA	C11-C10-C8-C9
21	A	1140	CLA	C11-C10-C8-C9
21	2	2005	CLA	C14-C13-C15-C16
21	2	2012	CLA	C11-C12-C13-C14
21	3	3001	CLA	C11-C12-C13-C14
21	4	4002	CLA	C6-C7-C8-C9
21	4	4007	CLA	CAA-CBA-CGA-O1A
20	2	2801	LHG	O8-C23-C24-C25
21	A	1109	CLA	CAA-CBA-CGA-O2A
21	L	1502	CLA	CAA-CBA-CGA-O2A
21	B	1235	CLA	C10-C11-C12-C13
21	F	1303	CLA	CBA-CGA-O2A-C1
21	B	1213	CLA	CAA-CBA-CGA-O1A
21	4	4003	CLA	C2A-CAA-CBA-CGA
21	A	1129	CLA	CAA-CBA-CGA-O2A
21	B	1205	CLA	CAA-CBA-CGA-O2A
21	G	1001	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
21	A	1114	CLA	CAA-CBA-CGA-O1A
21	3	3010	CLA	C4-C3-C5-C6
21	B	1225	CLA	C8-C10-C11-C12
21	1	1004	CLA	C15-C16-C17-C18
21	A	1103	CLA	C6-C7-C8-C10
21	A	1131	CLA	C11-C12-C13-C15
21	A	1131	CLA	C12-C13-C15-C16
21	A	1139	CLA	C12-C13-C15-C16
21	A	1140	CLA	C11-C10-C8-C7
21	B	1202	CLA	C11-C10-C8-C7
21	B	9022	CLA	C3A-C2A-CAA-CBA
21	1	1004	CLA	C11-C10-C8-C7
21	1	1006	CLA	C3A-C2A-CAA-CBA
21	1	1013	CLA	C11-C12-C13-C15
21	2	2010	CLA	C12-C13-C15-C16
21	4	4002	CLA	C3A-C2A-CAA-CBA
21	4	4002	CLA	C6-C7-C8-C10
21	4	4006	CLA	C3A-C2A-CAA-CBA
21	A	1113	CLA	CAA-CBA-CGA-O1A
20	A	7001	LHG	O7-C7-C8-C9
21	2	2011	CLA	CAA-CBA-CGA-O2A
19	A	6011	BCR	C17-C18-C19-C20
21	A	1107	CLA	CAA-CBA-CGA-O1A
21	H	1000	CLA	CAA-CBA-CGA-O1A
21	1	1010	CLA	CAA-CBA-CGA-O1A
21	2	2004	CLA	CAA-CBA-CGA-O1A
19	A	6003	BCR	C19-C20-C21-C22
21	A	1124	CLA	CAA-CBA-CGA-O2A
21	1	1010	CLA	CAA-CBA-CGA-O2A
21	B	1221	CLA	O1A-CGA-O2A-C1
20	2	2801	LHG	O10-C23-C24-C25
21	B	1214	CLA	CAA-CBA-CGA-O1A
21	2	2008	CLA	CAA-CBA-CGA-O1A
21	4	4006	CLA	CAA-CBA-CGA-O1A
21	B	1231	CLA	CAA-CBA-CGA-O2A
21	4	4011	CLA	CAA-CBA-CGA-O2A
21	1	1006	CLA	CAA-CBA-CGA-O1A
21	B	1216	CLA	C2A-CAA-CBA-CGA
21	4	4005	CLA	CAA-CBA-CGA-O2A
21	1	1008	CLA	C5-C6-C7-C8
21	A	1139	CLA	C2C-C3C-CAC-CBC
21	A	1119	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
21	A	1130	CLA	CAA-CBA-CGA-O2A

There are no ring outliers.

190 monomers are involved in 2349 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	B	1236	CLA	4	0
21	2	2013	CLA	22	0
21	4	4012	CLA	32	0
23	A	9011	CL0	15	0
21	A	1117	CLA	7	0
21	A	1112	CLA	3	0
21	2	2012	CLA	26	0
21	B	1216	CLA	5	0
21	4	4001	CLA	53	0
21	A	1132	CLA	16	0
21	J	6014	CLA	4	0
21	B	1225	CLA	8	0
21	A	1106	CLA	11	0
21	A	1123	CLA	8	0
21	A	1122	CLA	7	0
21	3	3005	CLA	4	0
21	A	1114	CLA	3	0
21	B	1212	CLA	2	0
19	B	6009	BCR	5	0
21	B	1219	CLA	7	0
21	B	1215	CLA	4	0
21	F	1301	CLA	3	0
21	J	6015	CLA	11	0
21	3	3011	CLA	35	0
21	A	1109	CLA	9	0
21	A	1125	CLA	18	0
21	A	1113	CLA	1	0
21	3	3008	CLA	18	0
21	B	1211	CLA	3	0
25	G	2021	LMG	12	0
21	B	1237	CLA	1	0
21	2	2014	CLA	15	0
21	2	2011	CLA	22	0
21	4	4004	CLA	46	0
19	J	6012	BCR	5	0
21	1	1006	CLA	61	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	4	4002	CLA	46	0
21	2	2008	CLA	21	0
21	L	1501	CLA	25	0
21	A	1101	CLA	7	0
21	3	3003	CLA	12	0
21	B	1208	CLA	7	0
21	B	1227	CLA	26	0
21	1	1004	CLA	29	0
21	4	4013	CLA	16	0
21	F	1303	CLA	21	0
26	1	1501	LUT	51	0
21	2	2004	CLA	36	0
21	B	1218	CLA	2	0
21	A	1103	CLA	7	0
21	A	9013	CLA	11	0
21	A	1118	CLA	4	0
21	B	1224	CLA	8	0
21	2	2002	CLA	49	0
21	3	3017	CLA	5	0
21	B	1220	CLA	10	0
21	1	1013	CLA	69	0
21	1	1014	CLA	29	0
20	B	7004	LHG	16	0
19	F	6016	BCR	8	0
21	F	1302	CLA	3	0
21	A	1135	CLA	5	0
24	B	7101	DGD	4	0
21	B	1204	CLA	3	0
21	B	9023	CLA	13	0
21	B	1231	CLA	3	0
21	G	1002	CLA	44	0
27	4	4503	NEX	43	0
21	4	4008	CLA	29	0
21	4	4006	CLA	20	0
19	L	6019	BCR	19	0
21	1	1007	CLA	22	0
25	J	5001	LMG	3	0
21	4	4009	CLA	11	0
21	A	1130	CLA	17	0
20	2	2801	LHG	23	0
21	B	1203	CLA	3	0
19	F	6014	BCR	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	A	1108	CLA	4	0
21	B	1210	CLA	8	0
21	2	2001	CLA	19	0
21	4	4014	CLA	32	0
21	A	1133	CLA	4	0
21	A	1104	CLA	6	0
21	A	1111	CLA	6	0
19	I	6018	BCR	10	0
18	B	5002	PQN	6	0
21	A	1116	CLA	3	0
21	B	1234	CLA	6	0
21	L	1503	CLA	18	0
21	B	1226	CLA	11	0
21	A	1110	CLA	3	0
21	A	1129	CLA	23	0
21	A	1121	CLA	1	0
21	B	1239	CLA	13	0
21	1	1001	CLA	72	0
21	3	3001	CLA	25	0
21	B	1228	CLA	8	0
21	2	2007	CLA	8	0
21	A	1119	CLA	3	0
19	I	6020	BCR	4	0
19	B	6006	BCR	5	0
21	B	1222	CLA	7	0
21	2	2006	CLA	23	0
21	3	3002	CLA	3	0
19	A	6003	BCR	2	0
19	B	6005	BCR	4	0
21	B	1240	CLA	21	0
19	G	2011	BCR	14	0
21	B	1207	CLA	15	0
21	A	1140	CLA	5	0
21	B	1202	CLA	4	0
21	G	1001	CLA	16	0
21	B	1206	CLA	13	0
21	A	1105	CLA	2	0
26	1	1502	LUT	61	0
19	L	6020	BCR	16	0
21	A	1115	CLA	7	0
21	1	1011	CLA	19	0
20	A	7003	LHG	16	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	B	1235	CLA	8	0
21	B	1217	CLA	5	0
21	B	1238	CLA	3	0
21	J	1302	CLA	1	0
21	A	1128	CLA	15	0
20	1	1801	LHG	41	0
21	4	4011	CLA	21	0
21	2	2010	CLA	20	0
21	B	9010	CLA	21	0
21	3	3014	CLA	4	0
21	2	2003	CLA	41	0
21	A	1127	CLA	4	0
21	4	4005	CLA	48	0
21	A	1137	CLA	9	0
20	A	7001	LHG	10	0
21	A	1102	CLA	7	0
21	3	3010	CLA	17	0
26	2	2502	LUT	24	0
26	2	2501	LUT	65	0
21	B	9022	CLA	9	0
26	4	4502	LUT	54	0
21	L	1502	CLA	8	0
21	B	1209	CLA	7	0
26	4	4501	LUT	41	0
21	B	1230	CLA	5	0
18	A	5001	PQN	4	0
19	A	6017	BCR	6	0
21	B	1214	CLA	6	0
21	4	4003	CLA	38	0
21	A	1120	CLA	2	0
21	1	1005	CLA	20	0
21	1	1003	CLA	52	0
21	1	1008	CLA	26	0
21	1	1012	CLA	25	0
21	A	1107	CLA	7	0
21	A	1124	CLA	9	0
21	2	2009	CLA	25	0
21	2	2005	CLA	24	0
21	A	1141	CLA	4	0
21	B	1223	CLA	5	0
21	B	1205	CLA	7	0
21	A	1138	CLA	9	0

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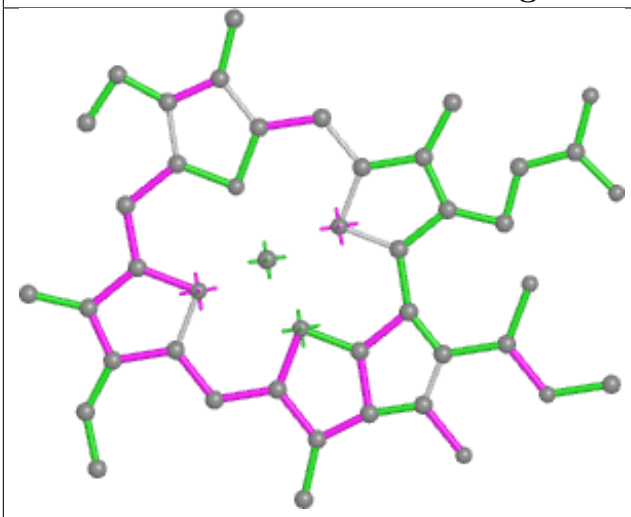
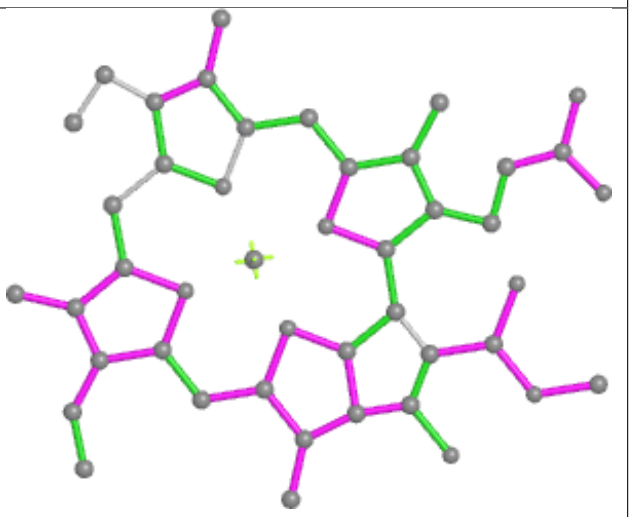
Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	H	1000	CLA	5	0
21	A	9012	CLA	19	0
21	1	1009	CLA	72	0
19	A	6002	BCR	3	0
21	A	1136	CLA	10	0
21	3	3013	CLA	15	0
21	A	1139	CLA	3	0
19	B	6011	BCR	1	0
19	B	6010	BCR	2	0
21	B	1201	CLA	2	0
21	A	1126	CLA	14	0
21	B	1213	CLA	26	0
21	4	4007	CLA	15	0
21	4	4015	CLA	18	0
21	B	1221	CLA	7	0
21	1	1010	CLA	28	0
19	B	6004	BCR	8	0
21	3	3009	CLA	22	0
19	A	6008	BCR	7	0
21	1	1002	CLA	71	0
19	A	6011	BCR	11	0
21	3	3012	CLA	35	0
19	A	6007	BCR	2	0
21	4	4010	CLA	10	0
21	A	1131	CLA	8	0
21	B	1229	CLA	10	0
21	3	3006	CLA	3	0
19	J	6013	BCR	3	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 then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

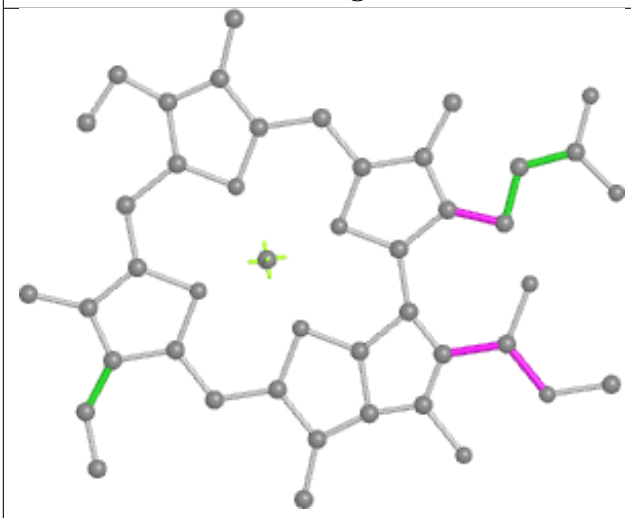
Ligand CLA 3 3016



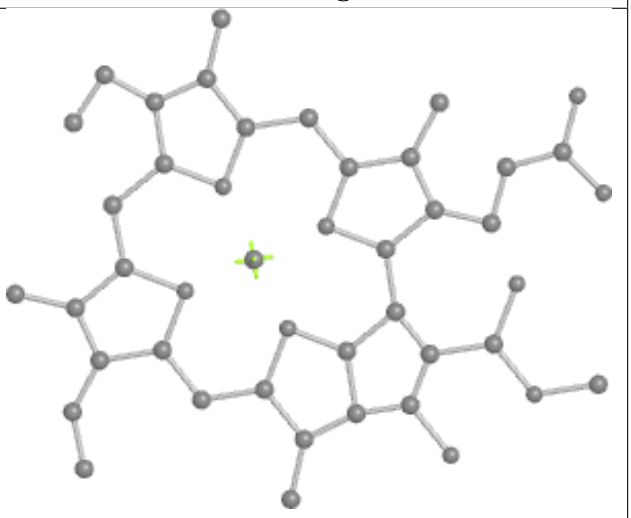
Bond lengths



Bond angles

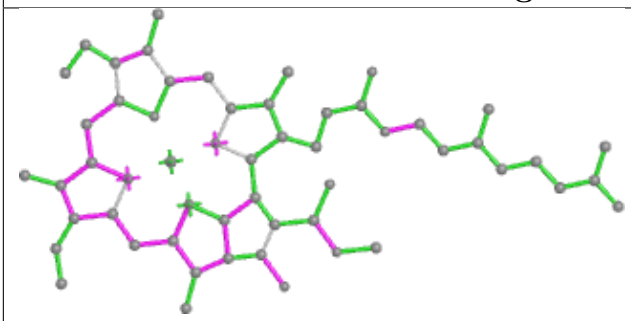


Torsions

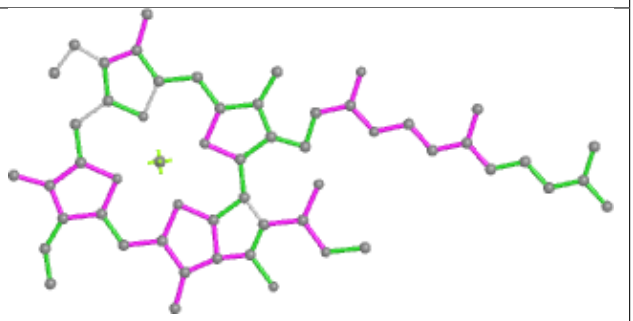


Rings

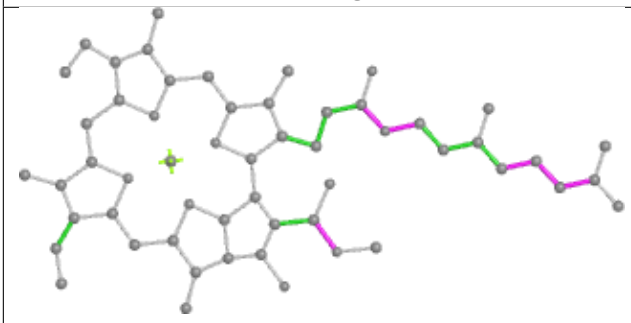
Ligand CLA B 1236



Bond lengths



Bond angles



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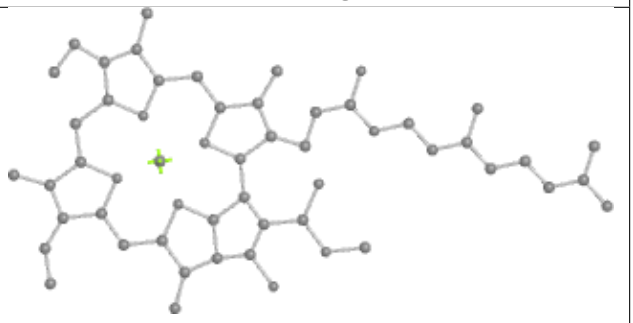
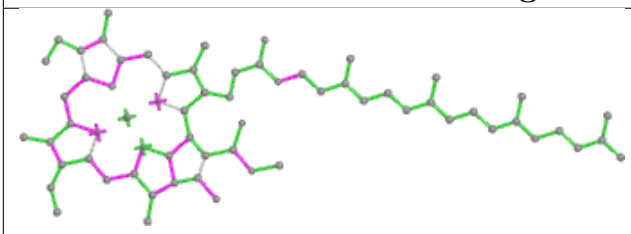
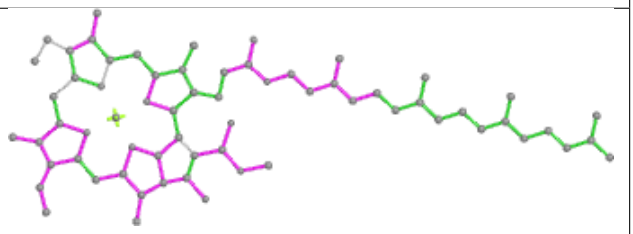


Rings

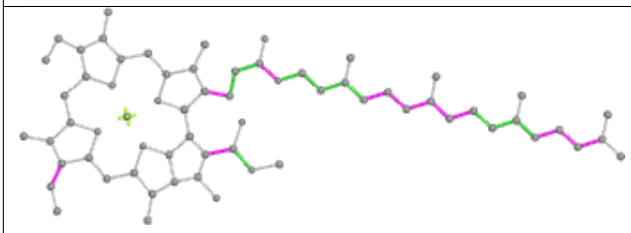
Ligand CLA 2 2013



Bond lengths



Bond angles



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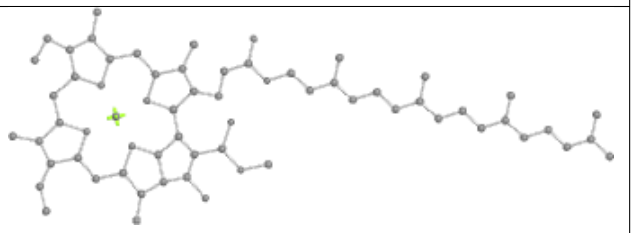
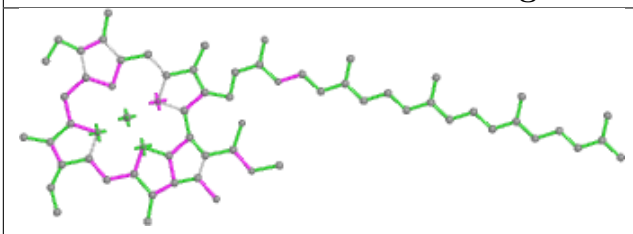


Rings

Ligand CLA 4 4012



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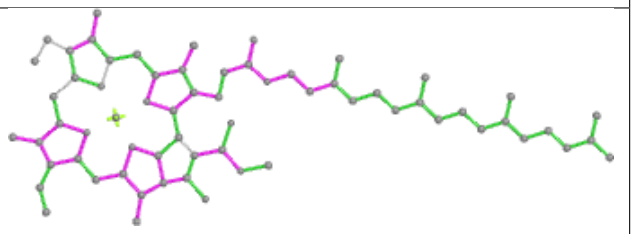

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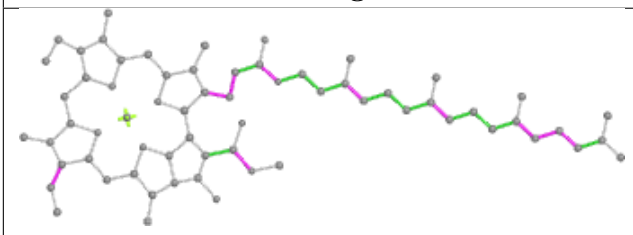

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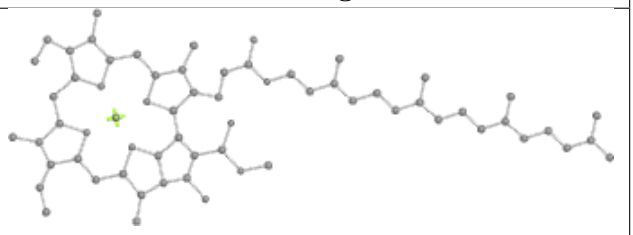
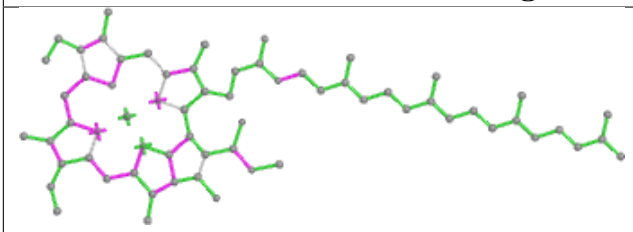


Rings

Ligand CL0 A 9011



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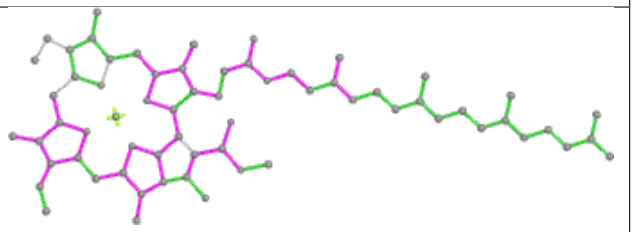

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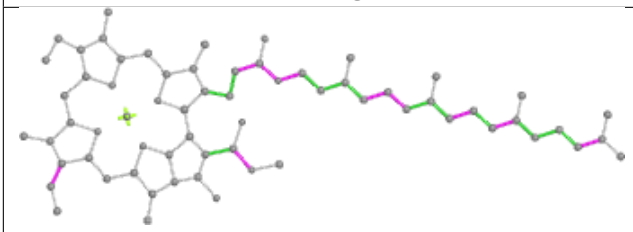

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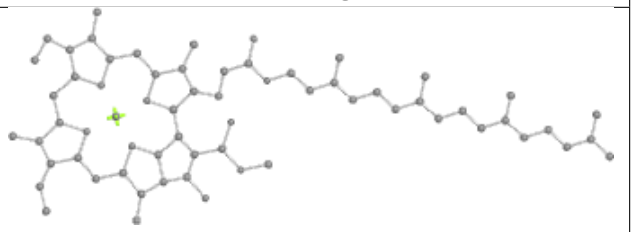
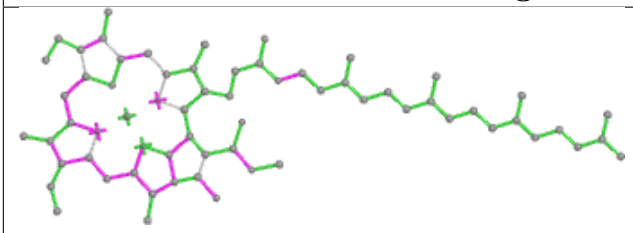


Rings

Ligand CLA A 1117



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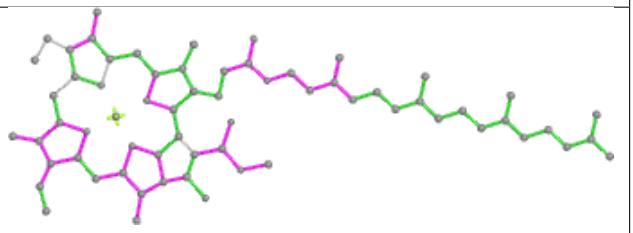

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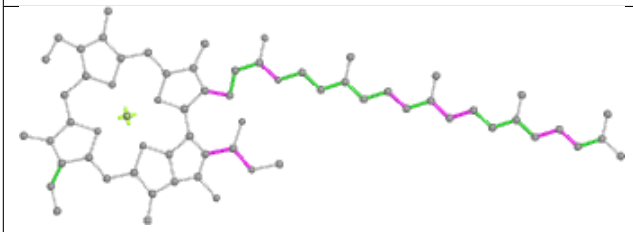

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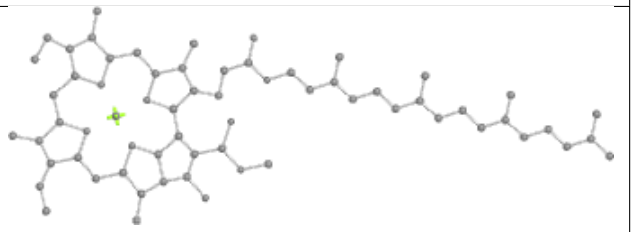
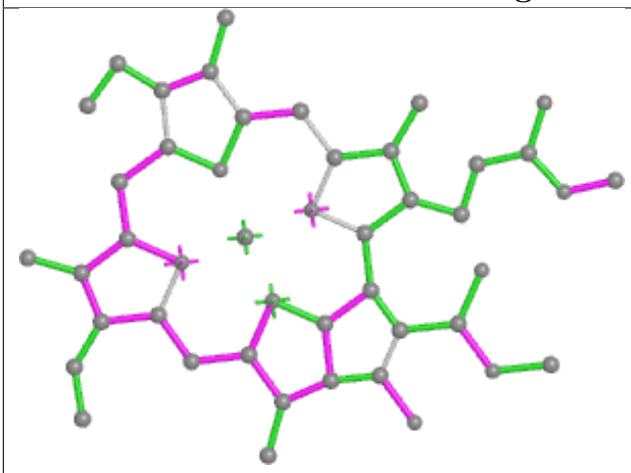


Rings

Ligand CLA A 1112



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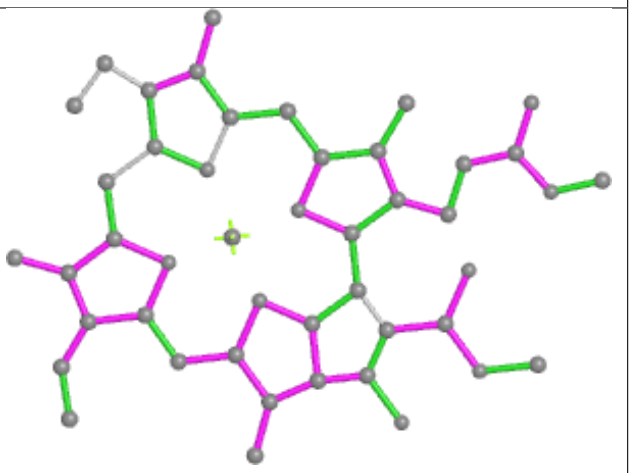

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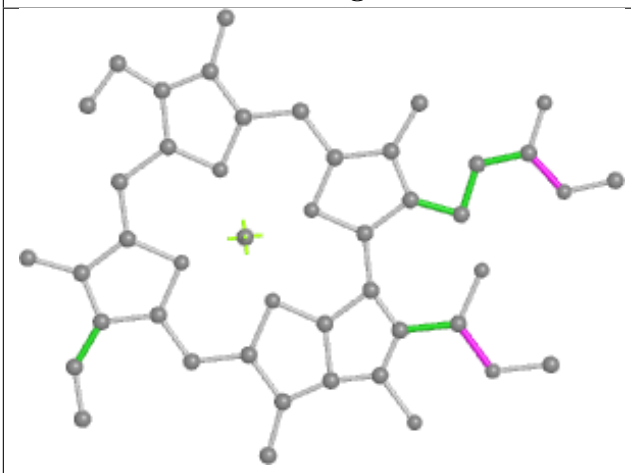

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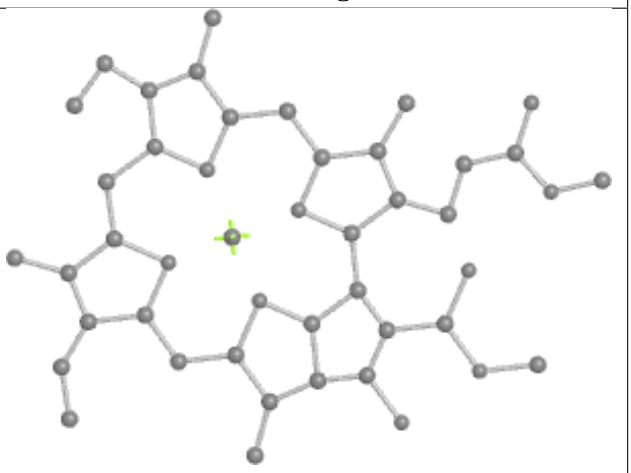
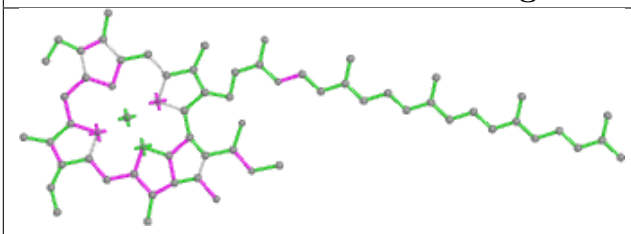


Rings

Ligand CLA 2 2012



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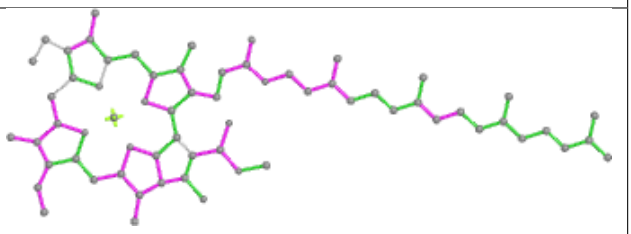
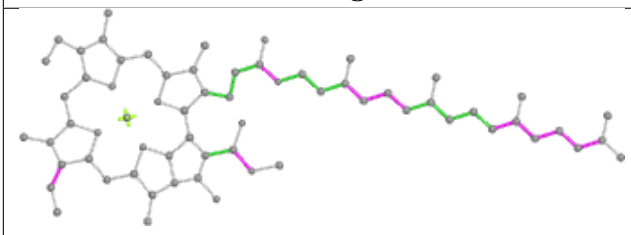
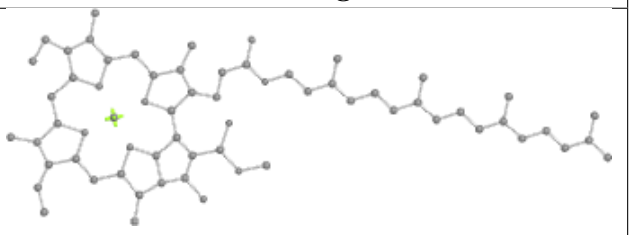


Bond angles

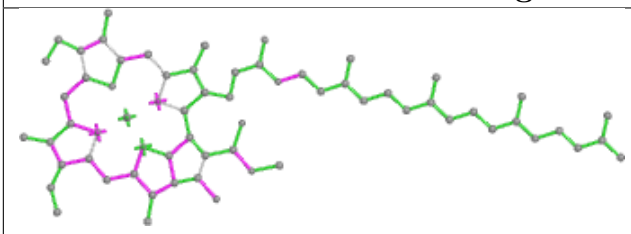


Torsions



Rings

Ligand CLA B 1216



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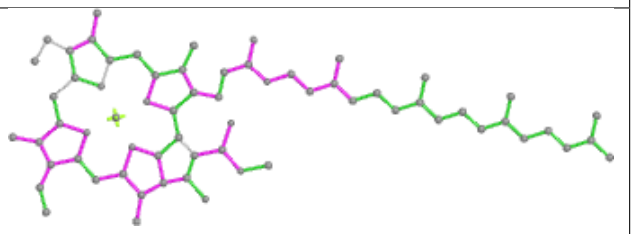

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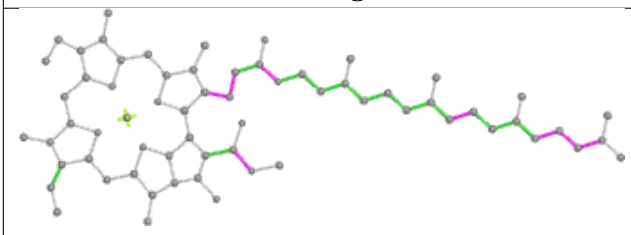

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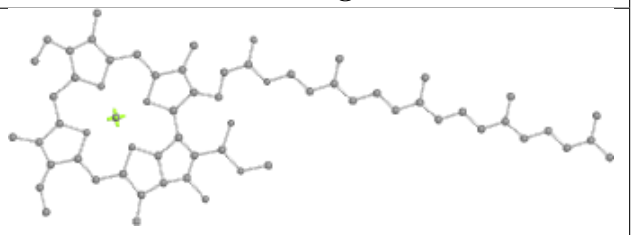
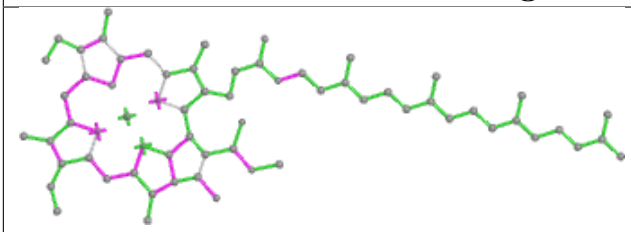


Rings

Ligand CLA 4 4001



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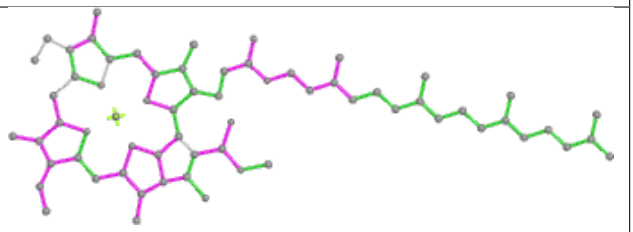

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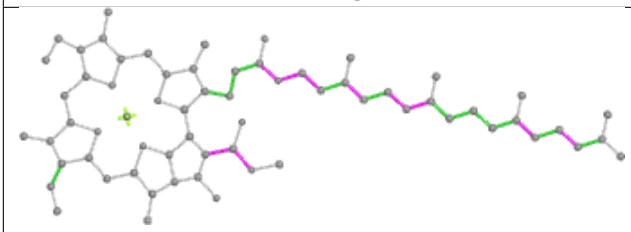

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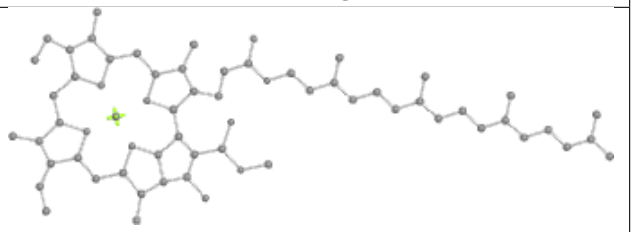
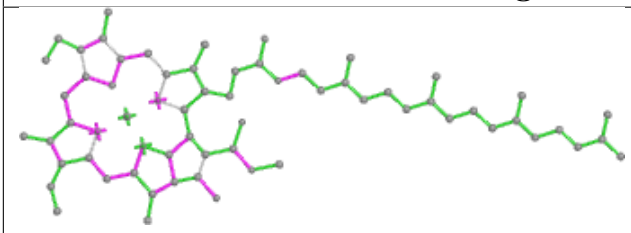
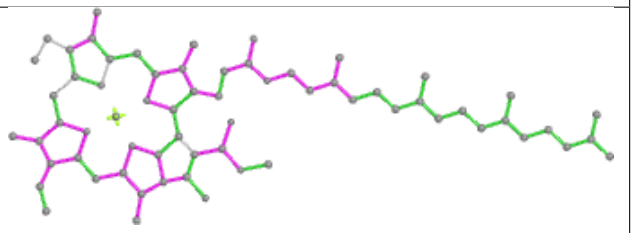


Rings

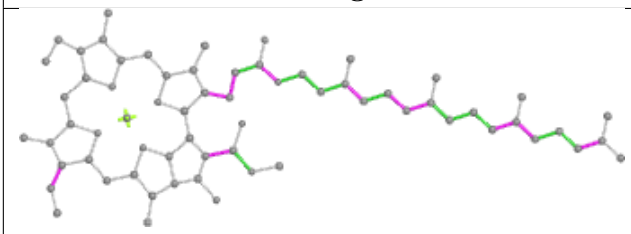
Ligand CLA A 1132



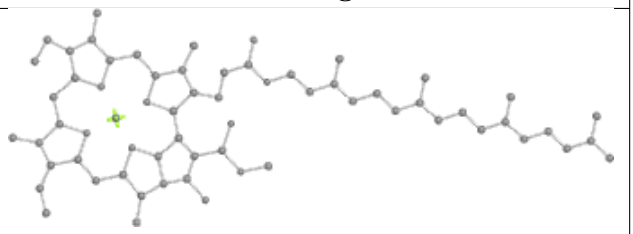
Bond lengths



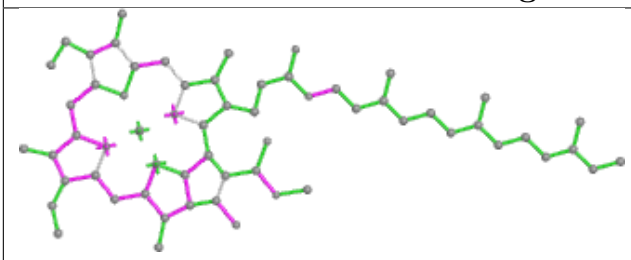
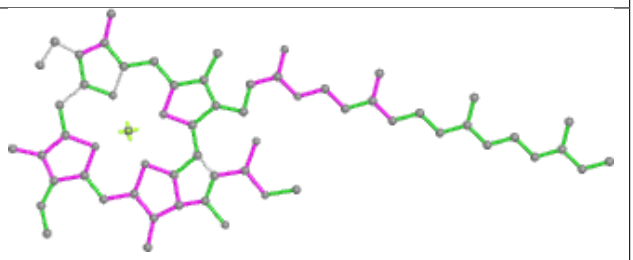
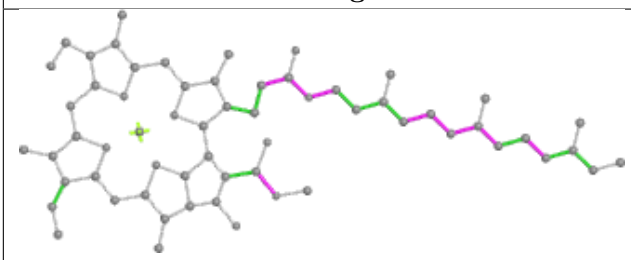
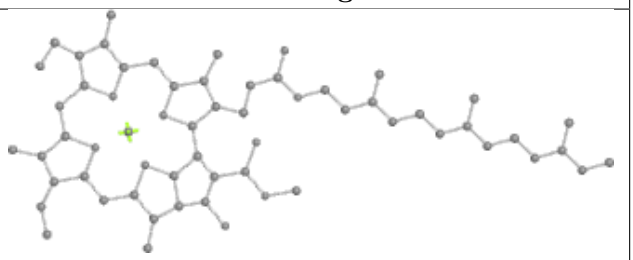
Bond angles

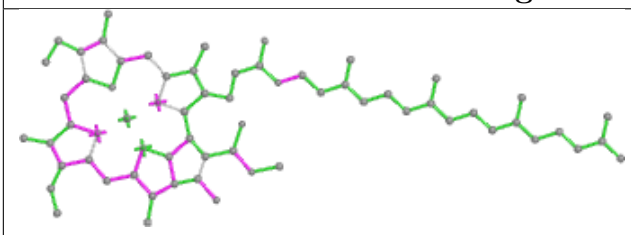
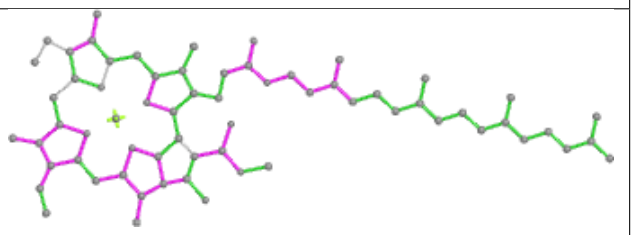
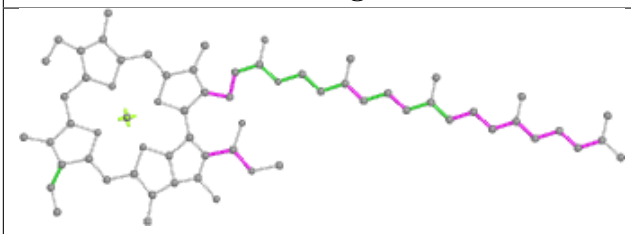
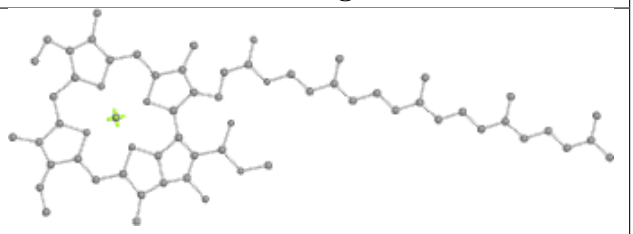


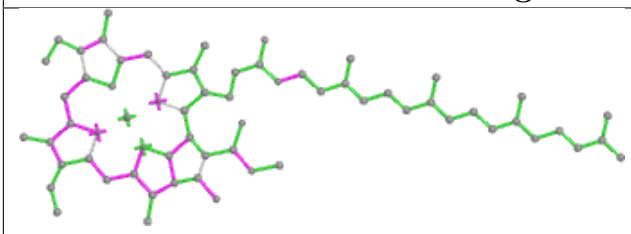
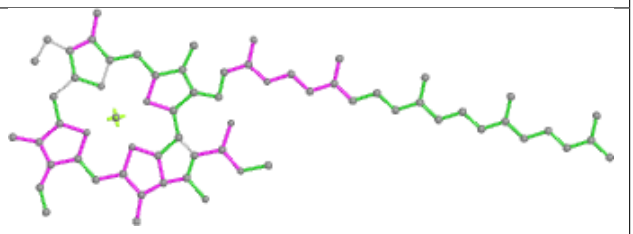
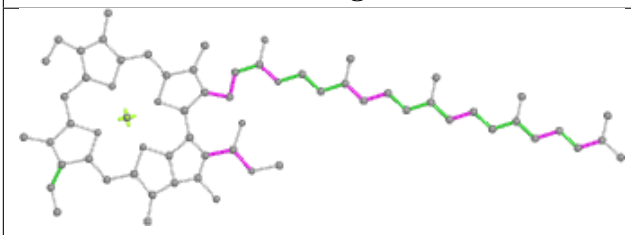
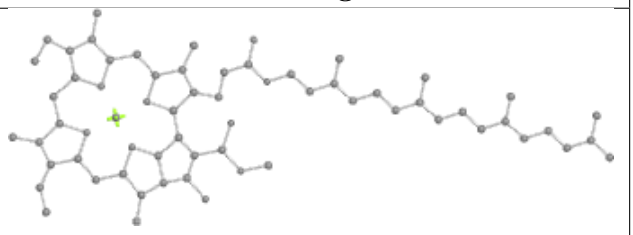
Torsions



Rings

Ligand CLA J 6014	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA B 1225	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA A 1106	
 Bond lengths	 Bond angles
 Torsions	 Rings

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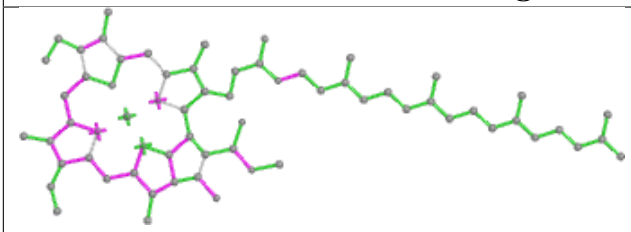
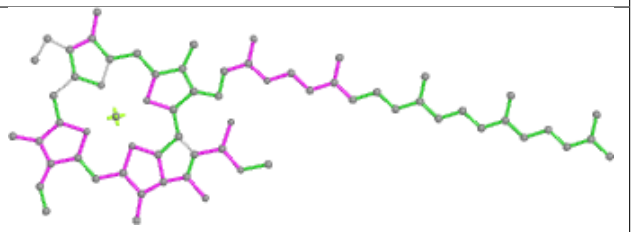
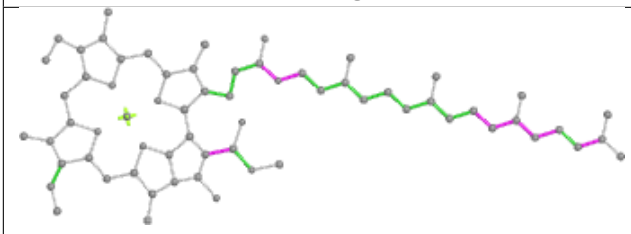
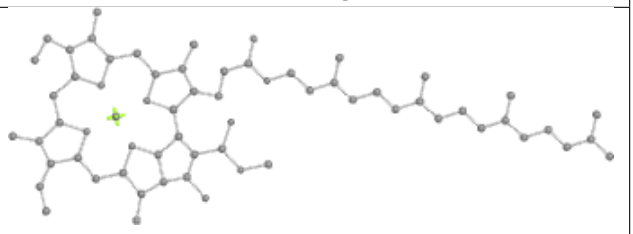
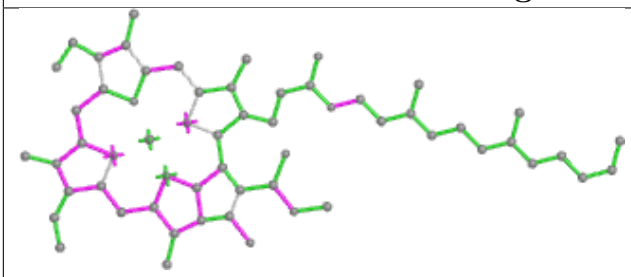
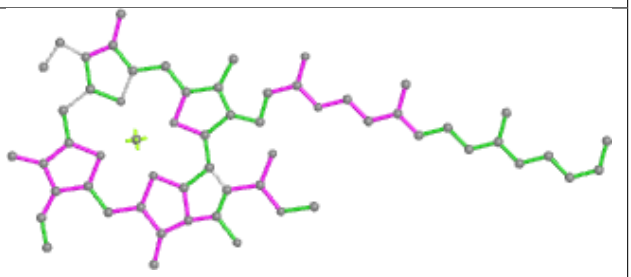
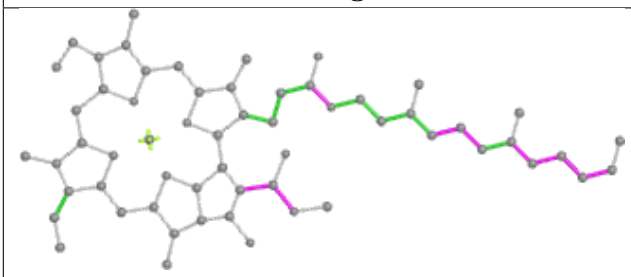
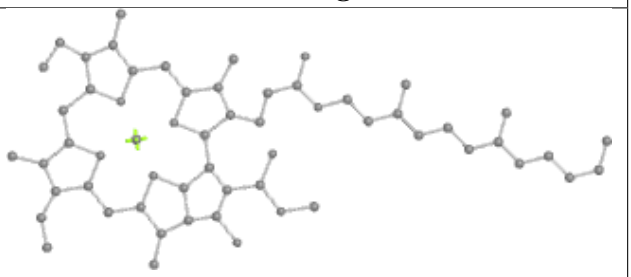
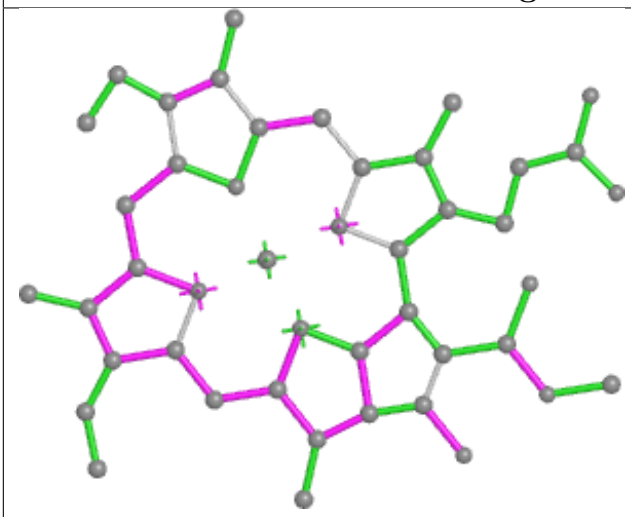
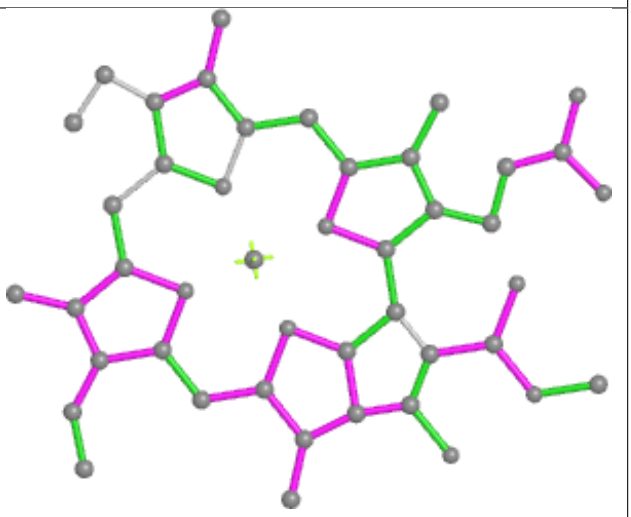
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA A 1122	
 Bond lengths	 Bond angles
 Torsions	 Rings

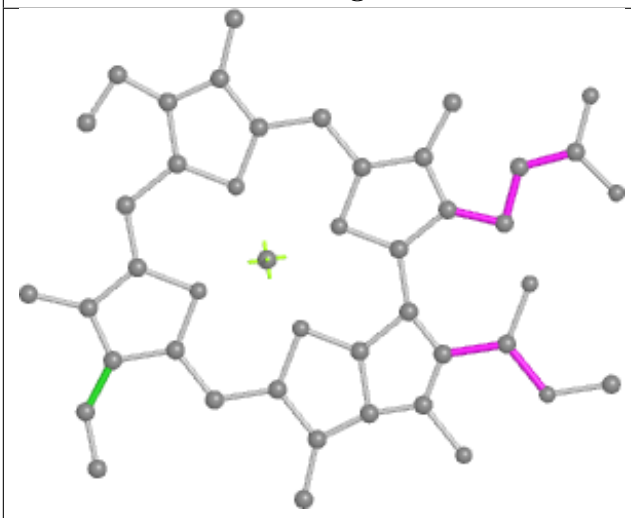
Ligand CLA 3 3005



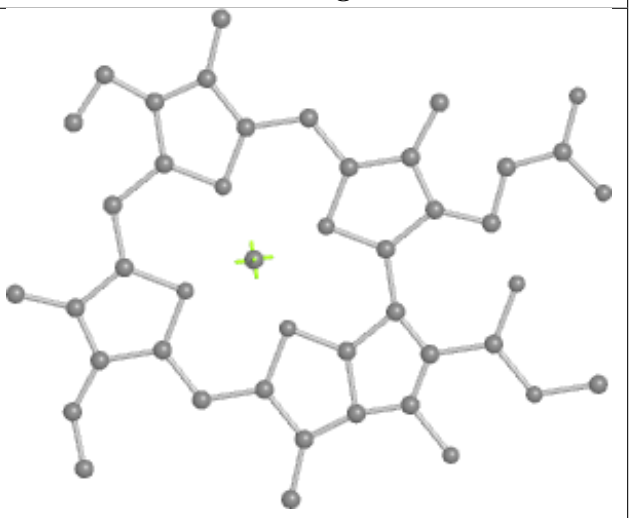
Bond lengths



Bond angles

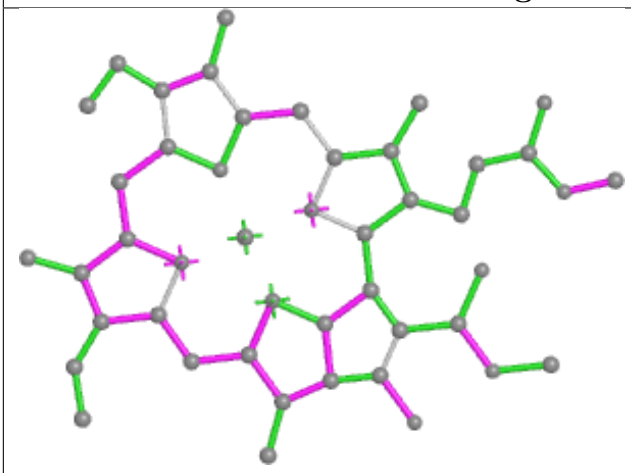


Torsions

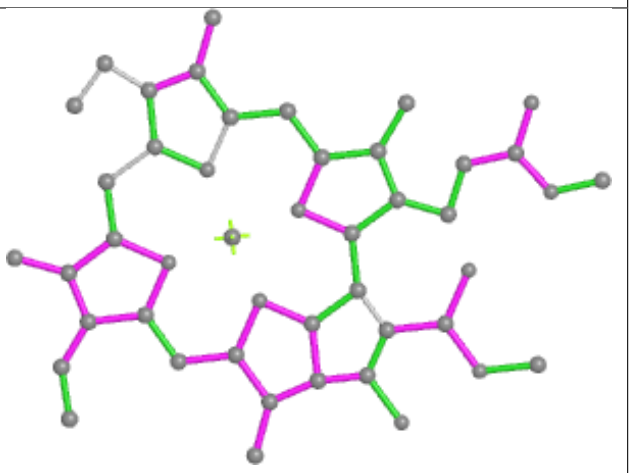


Rings

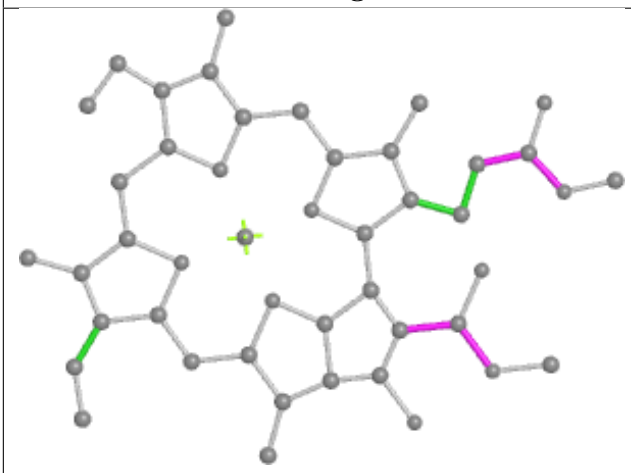
Ligand CLA A 1114



Bond lengths



Bond angles



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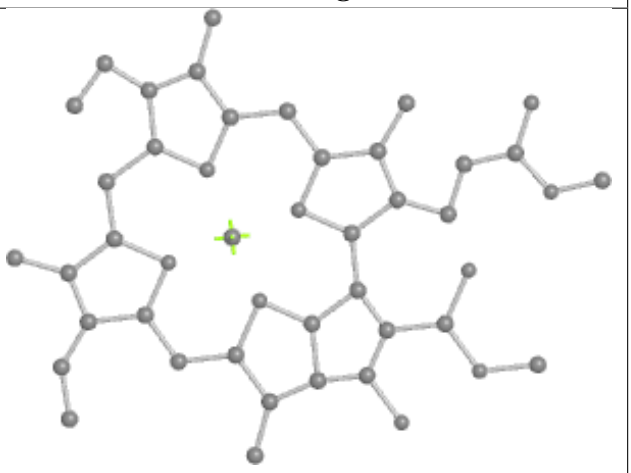
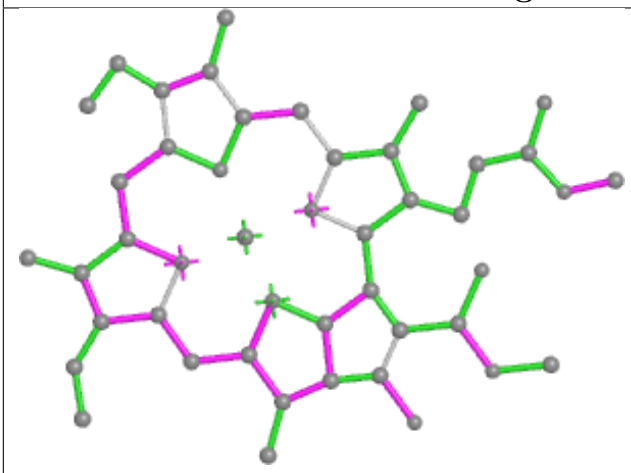
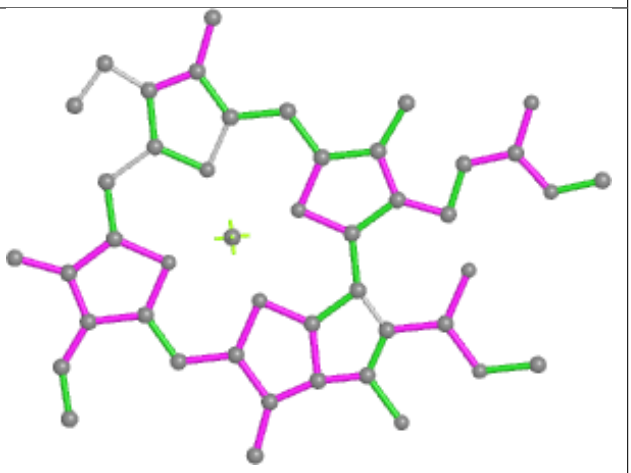


Rings

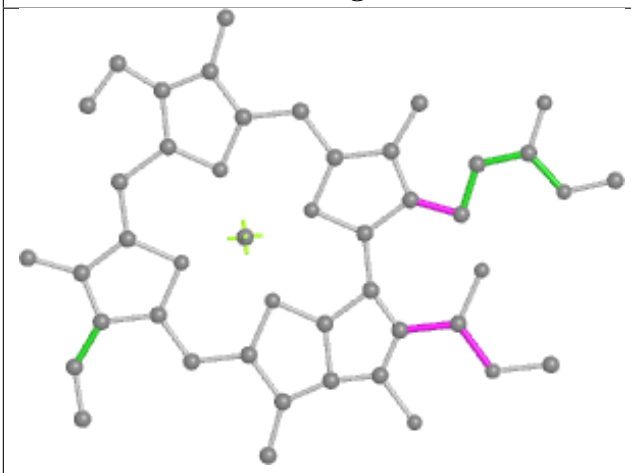
Ligand CLA B 1212



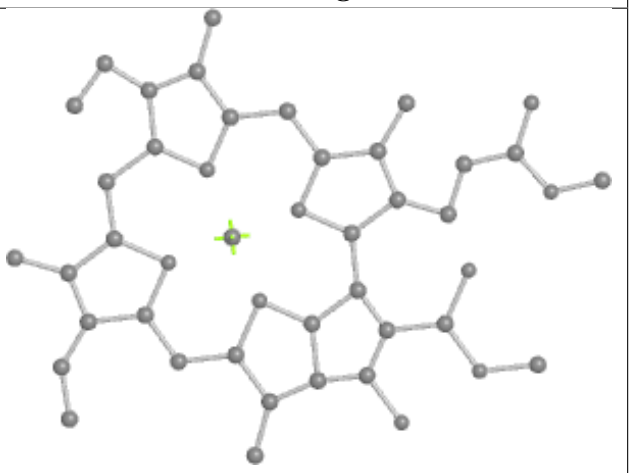
Bond lengths



Bond angles

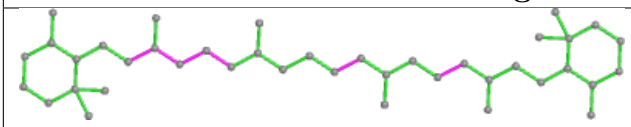


Torsions



Rings

Ligand BCR B 6009



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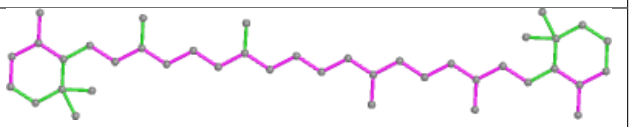
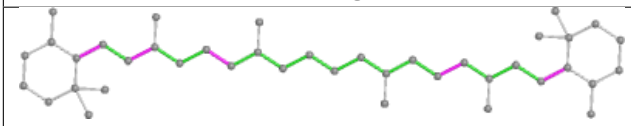
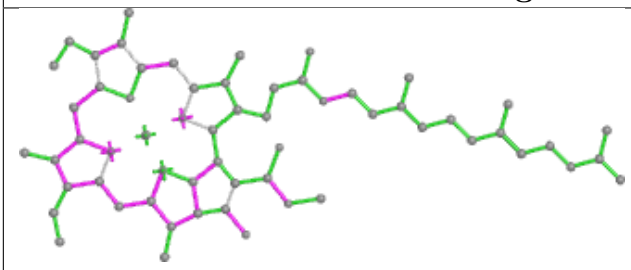
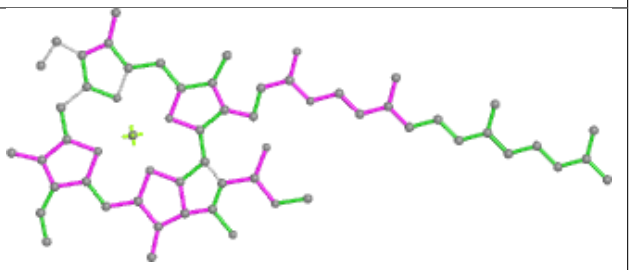
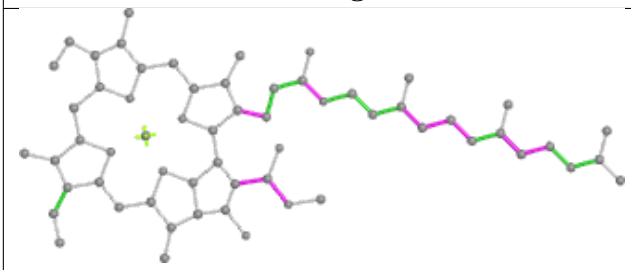
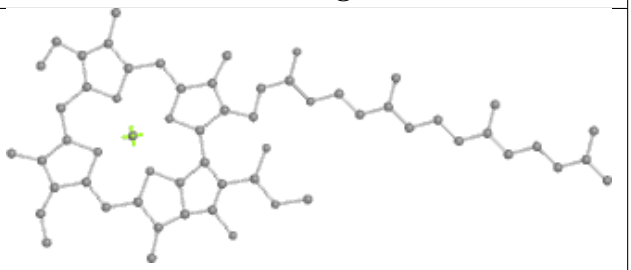


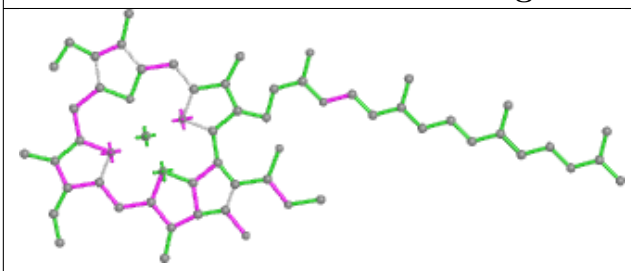
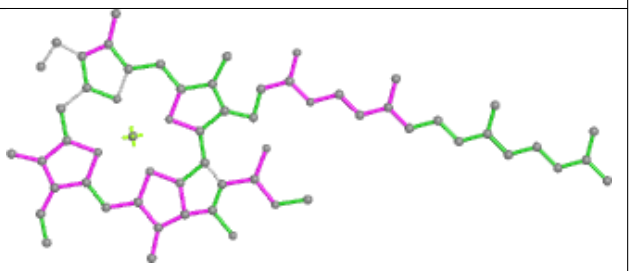
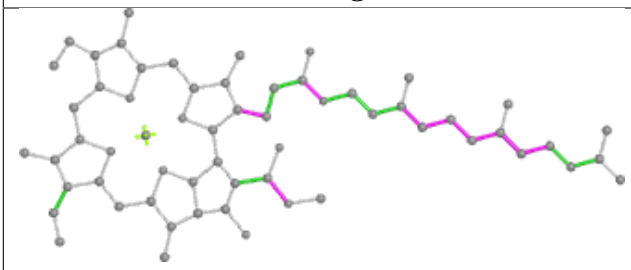
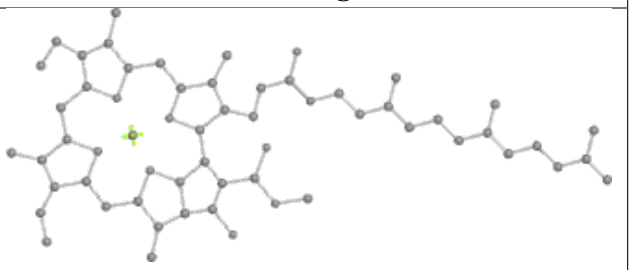
Bond angles



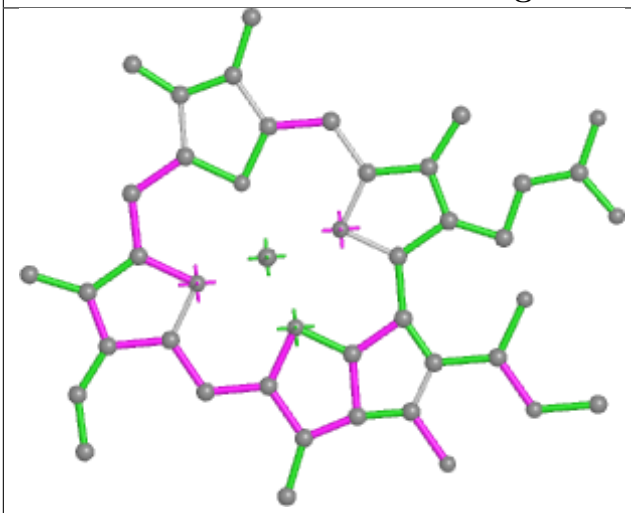
Torsions

Rings

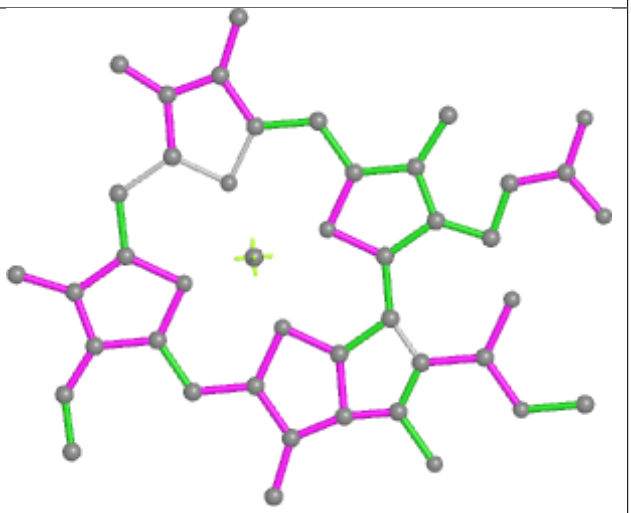
Ligand CLA B 1219	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA B 1215	
 Bond lengths	 Bond angles
 Torsions	 Rings

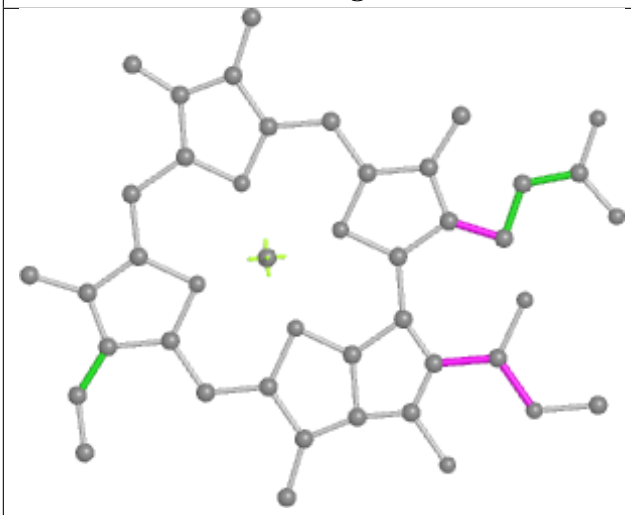
Ligand CLA A 1142



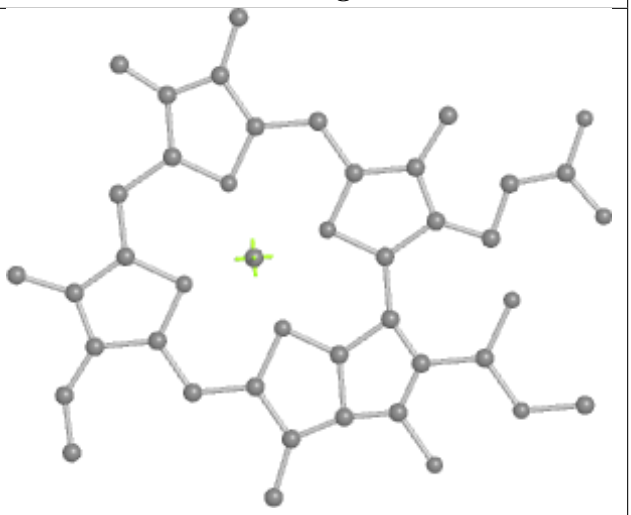
Bond lengths



Bond angles

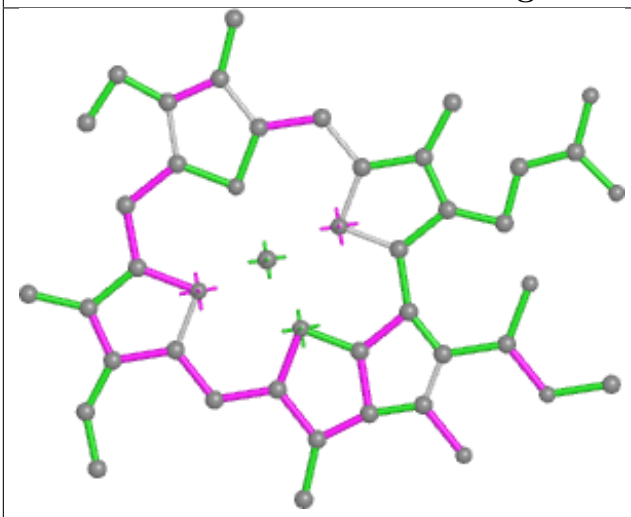


Torsions



Rings

Ligand CLA F 1301



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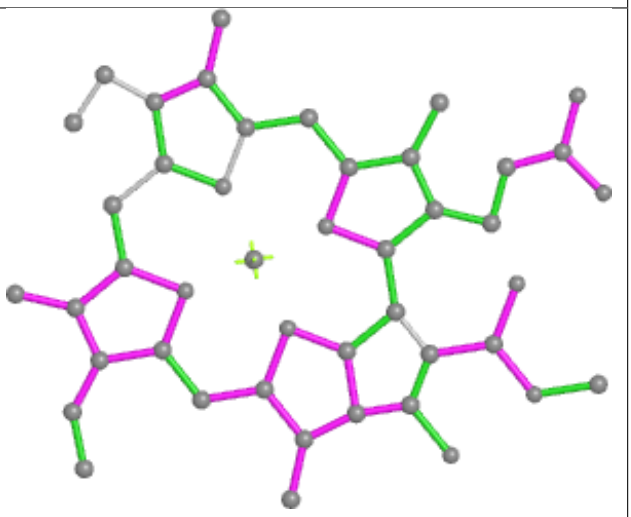
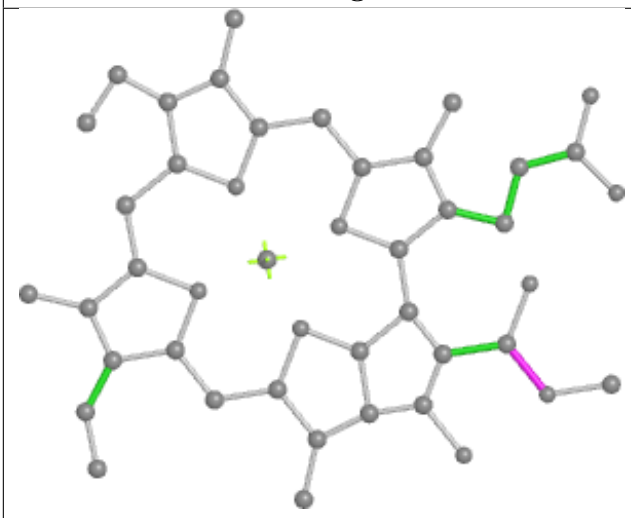
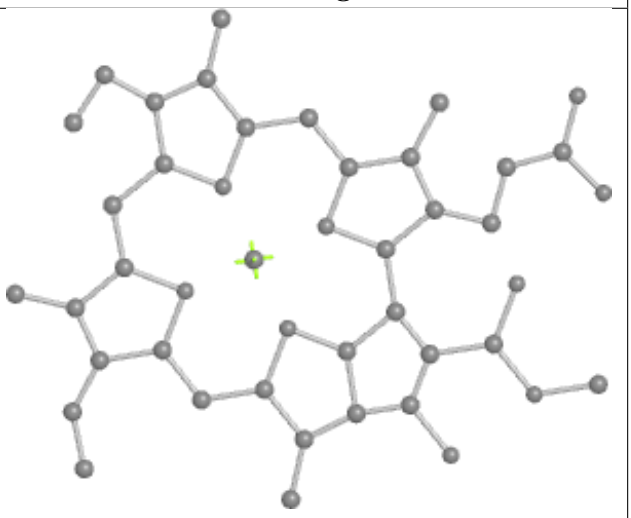


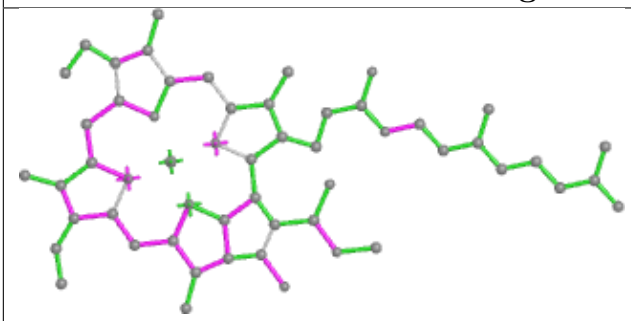
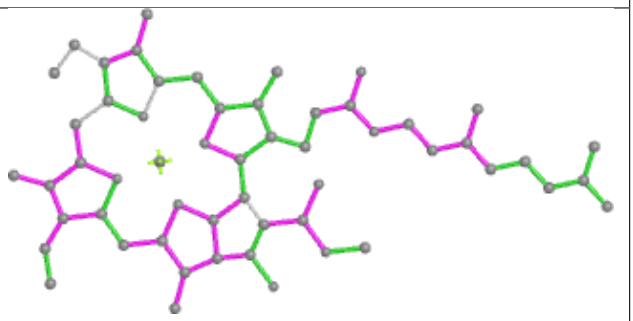
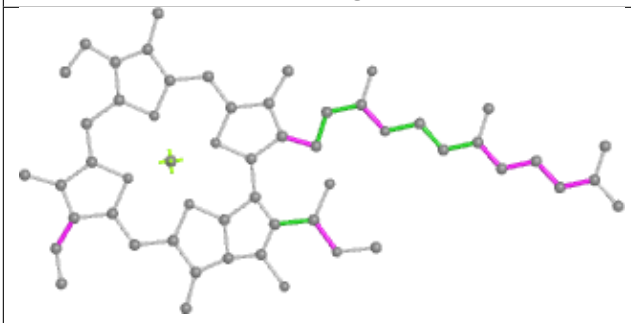
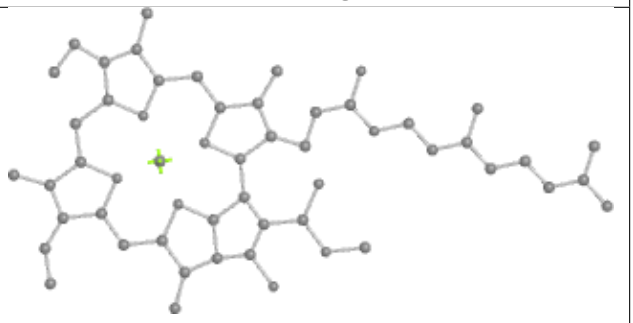
Bond angles



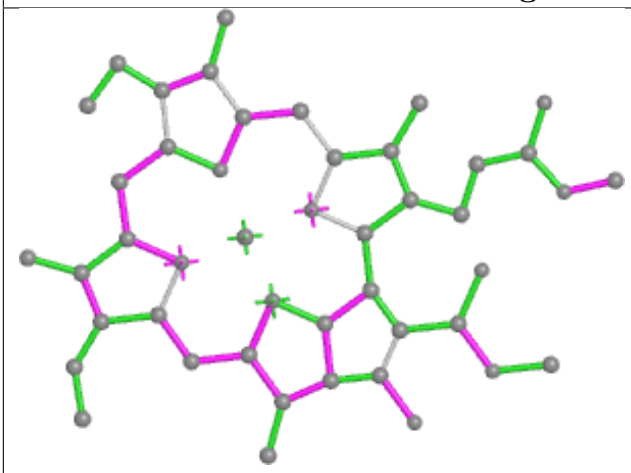
Torsions



Rings

Ligand CLA J 6015	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA 3 3011



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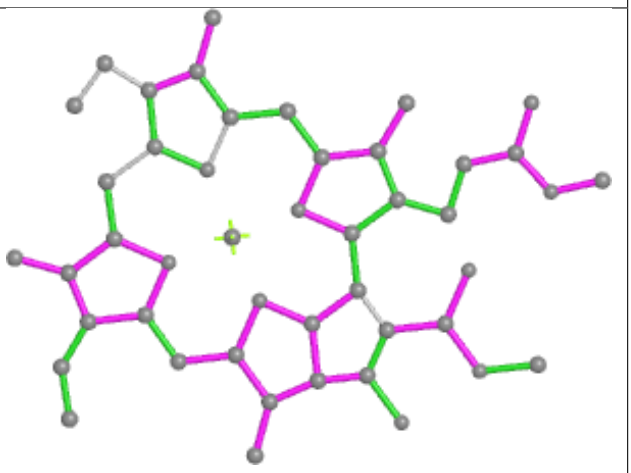

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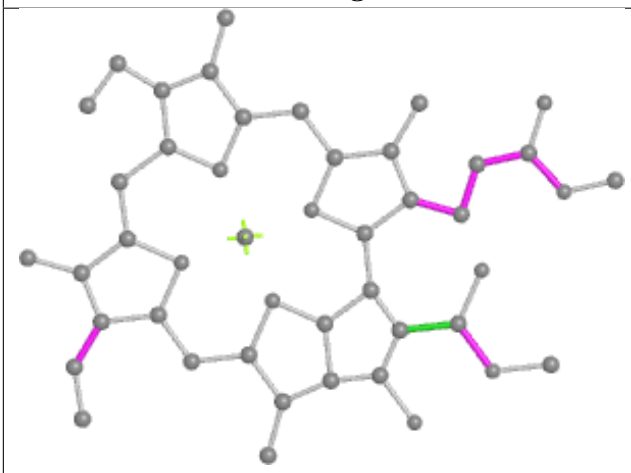

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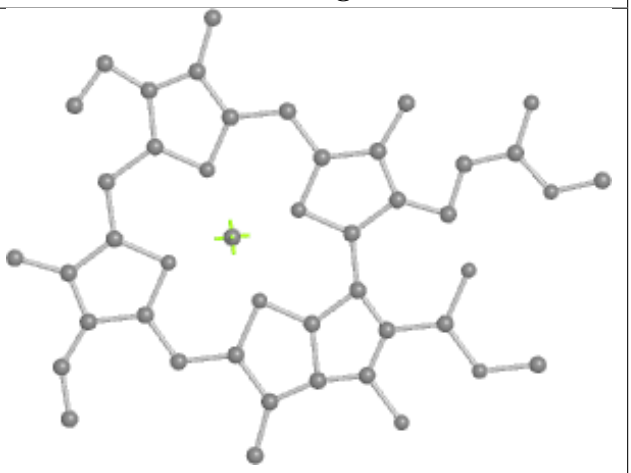
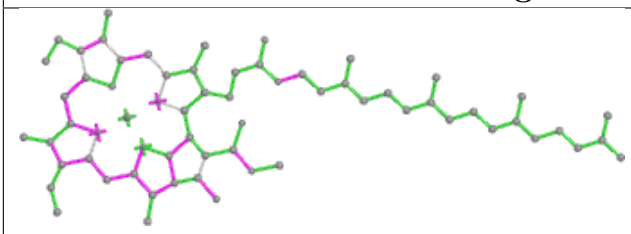


Rings

Ligand CLA A 1109



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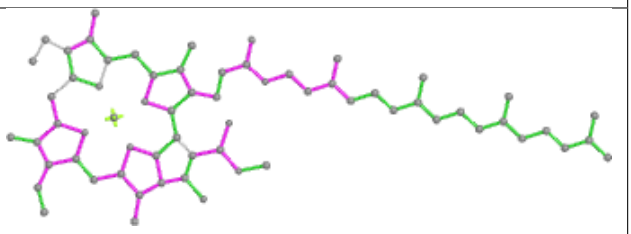

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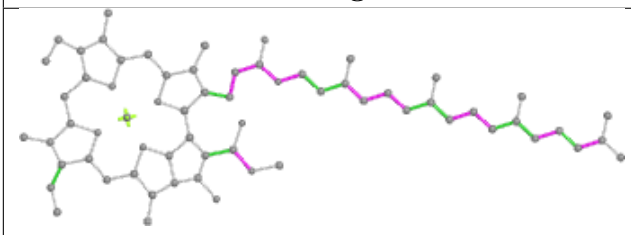

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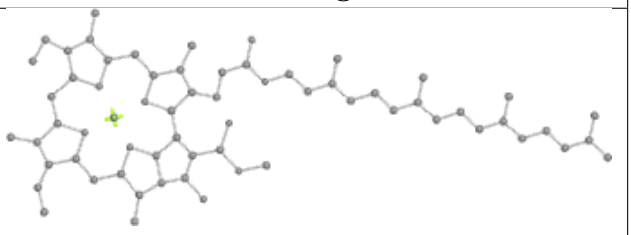

Rings

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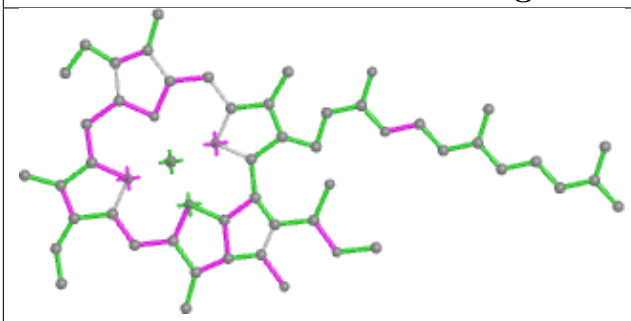

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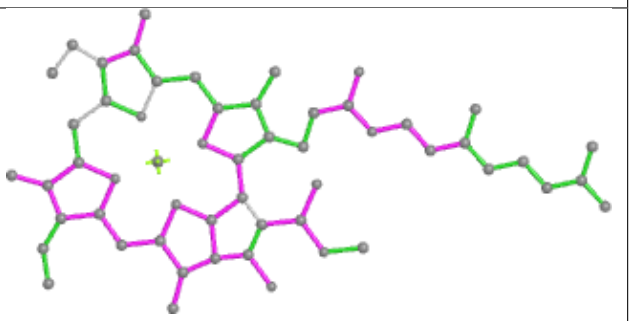

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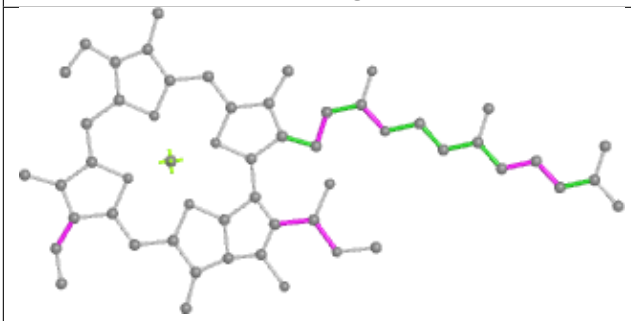

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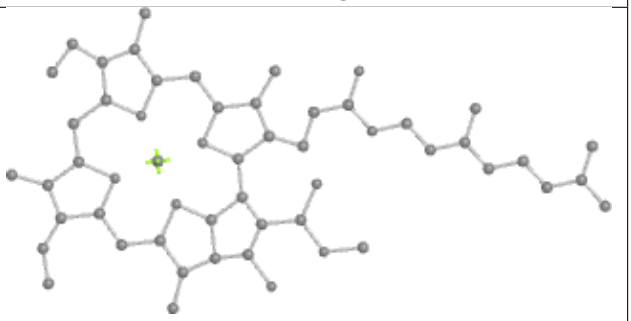

Rings

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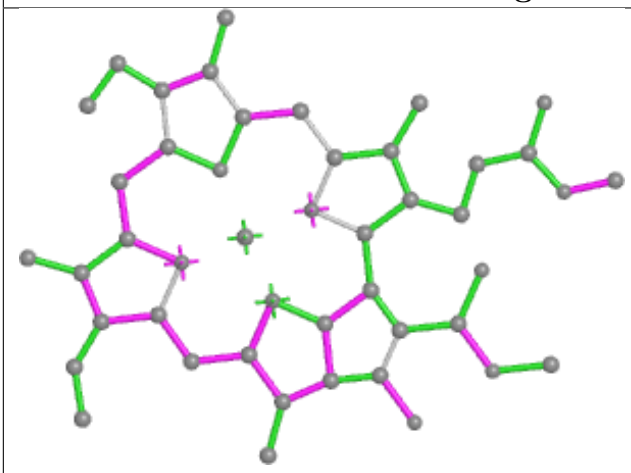

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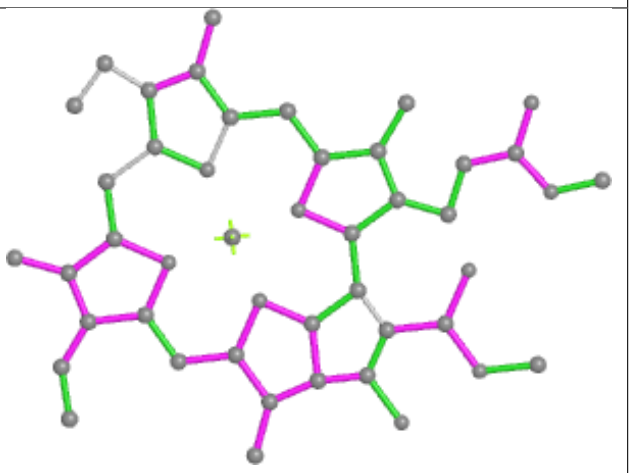

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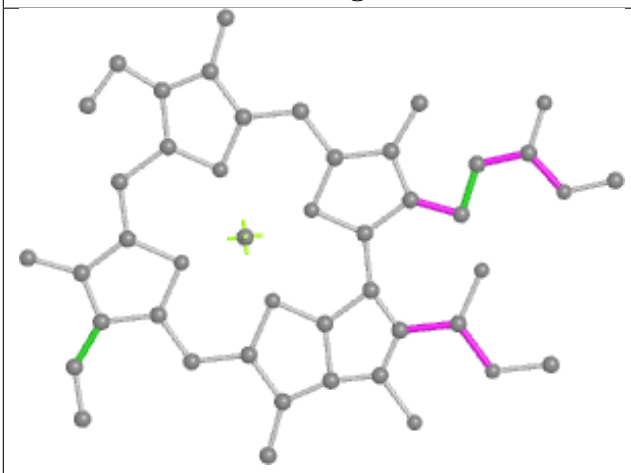

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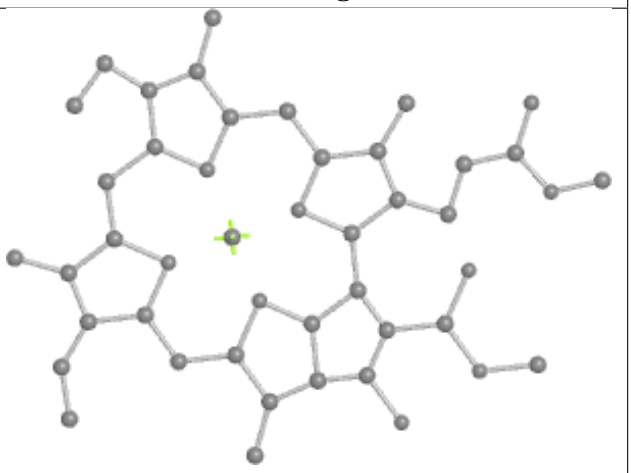

Rings

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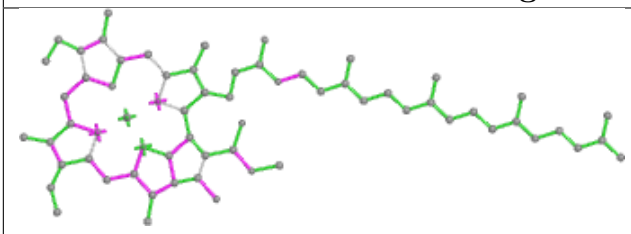

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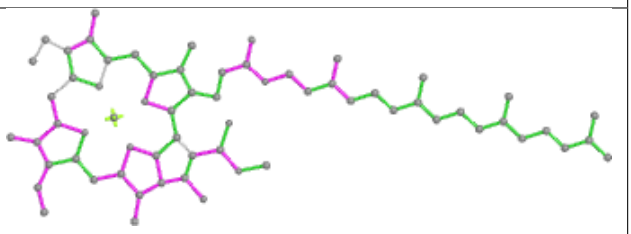

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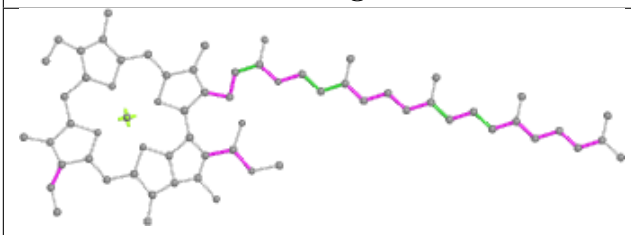

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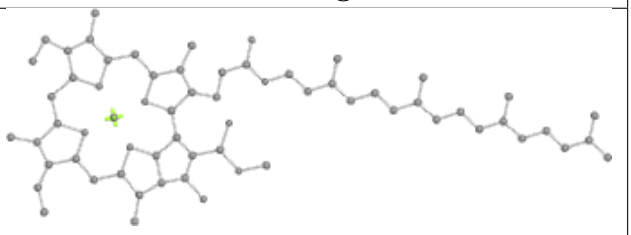

Rings

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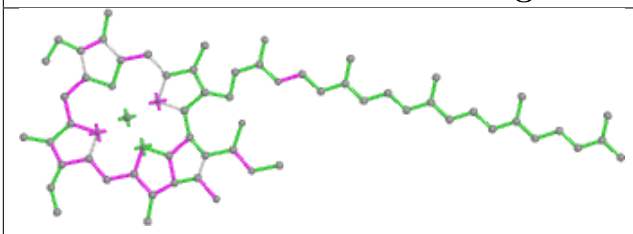

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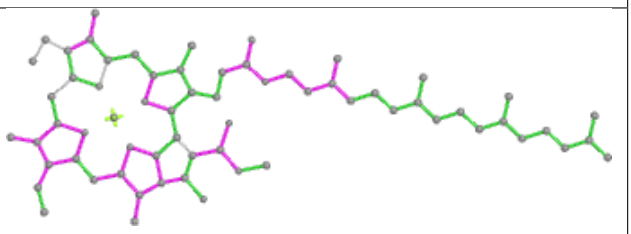

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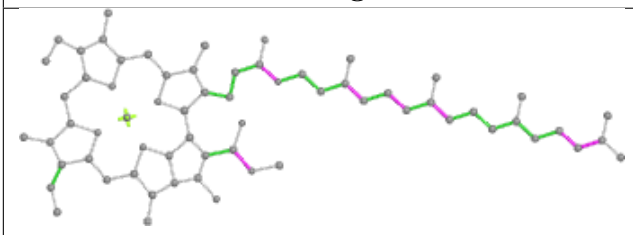

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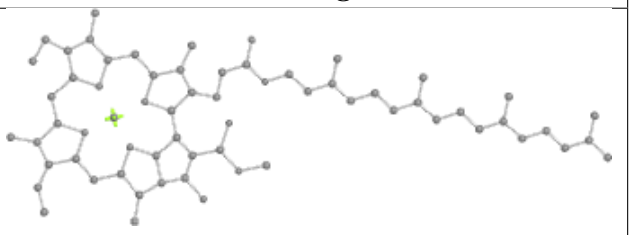
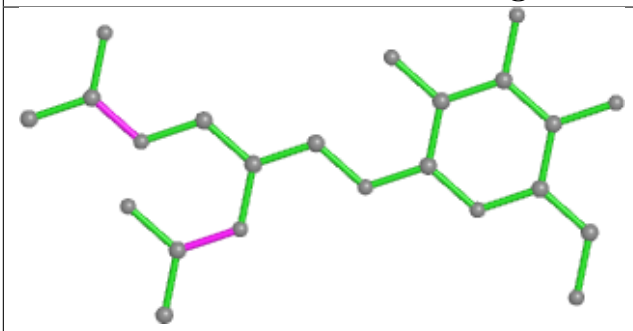


Rings

Ligand LMG G 2021



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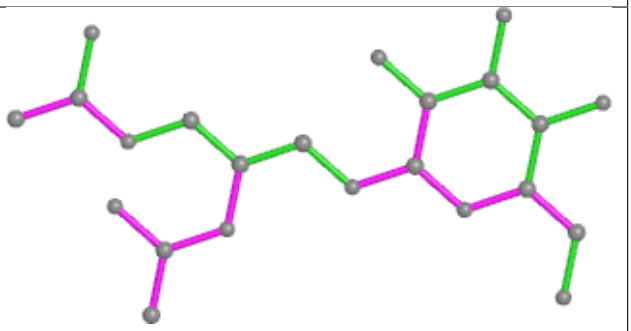

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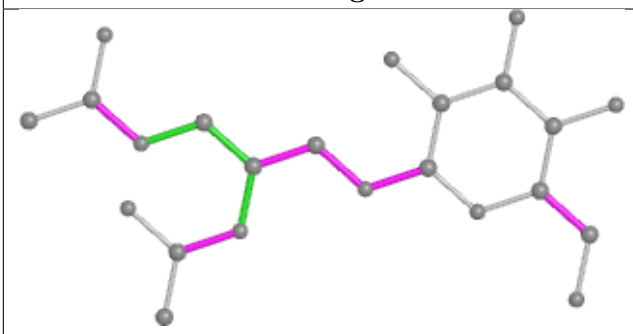

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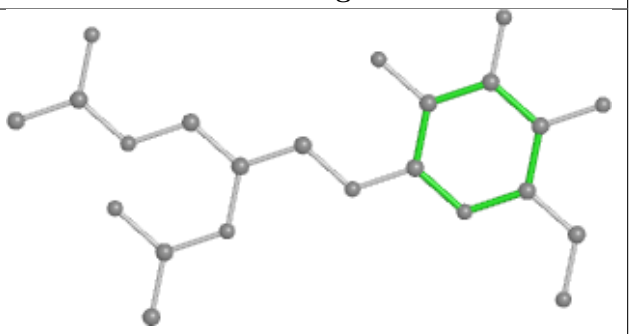

Rings

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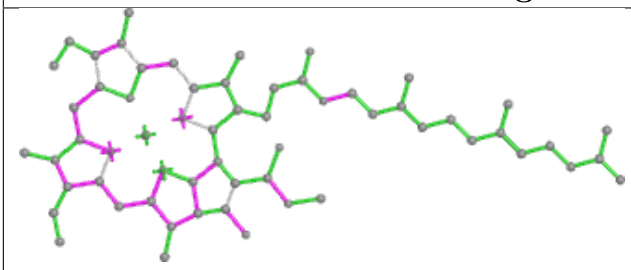

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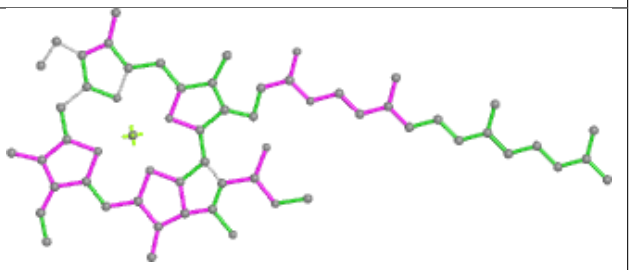

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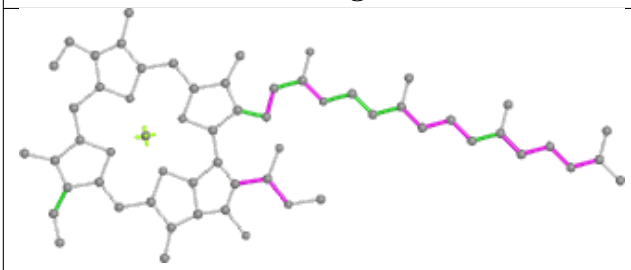

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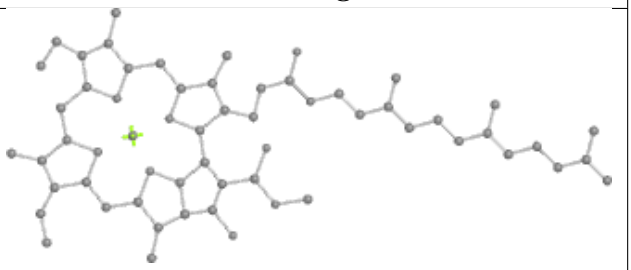
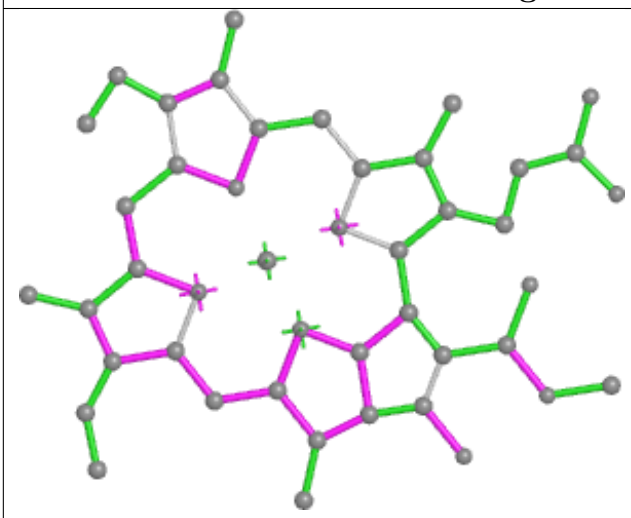


Rings

Ligand CLA 2 2014



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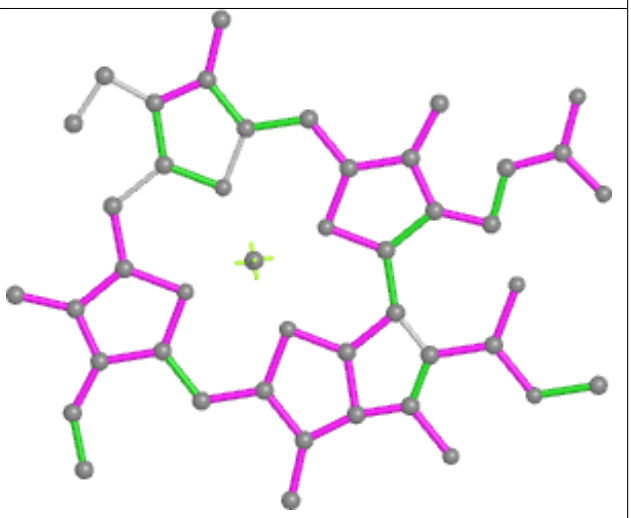

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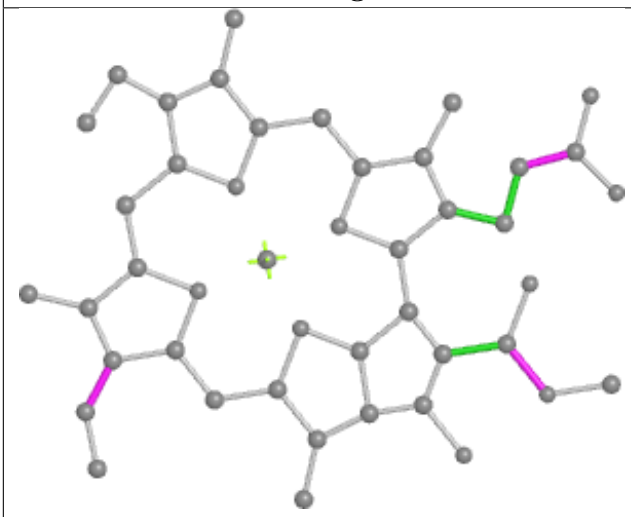

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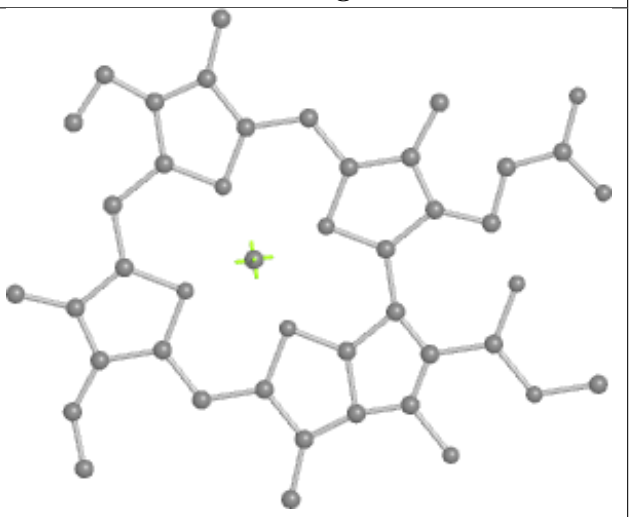
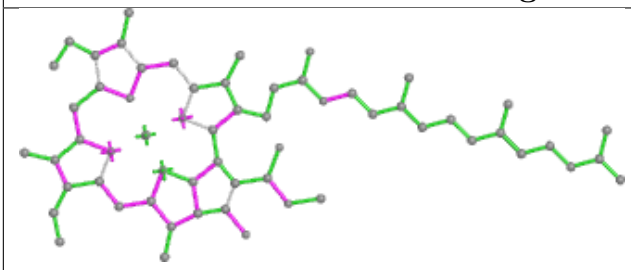


Rings

Ligand CLA 2 2011



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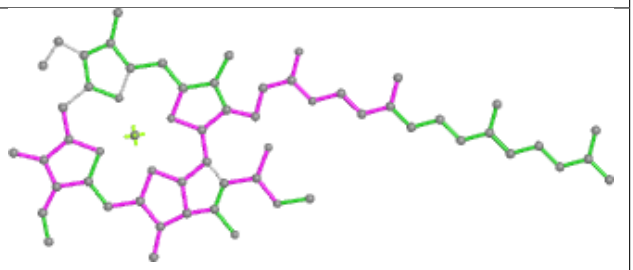

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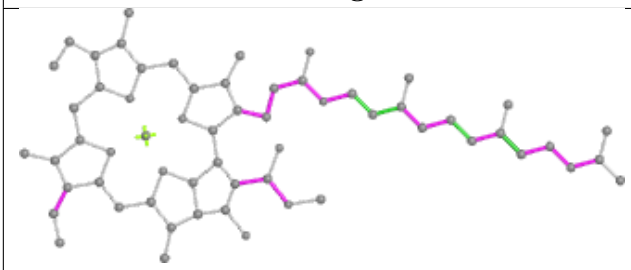

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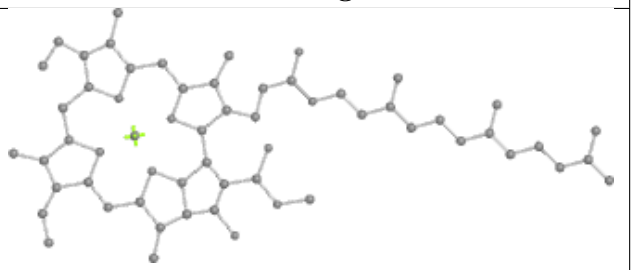
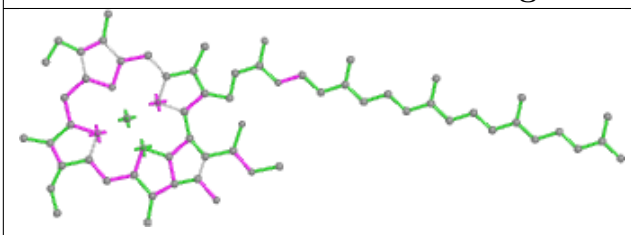


Rings

Ligand CLA 4 4004



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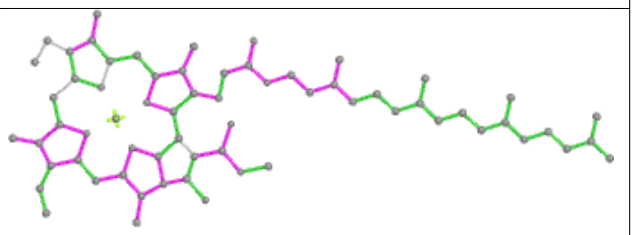

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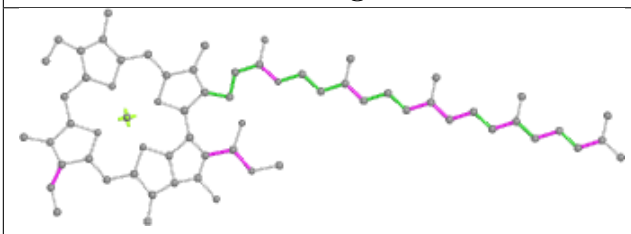

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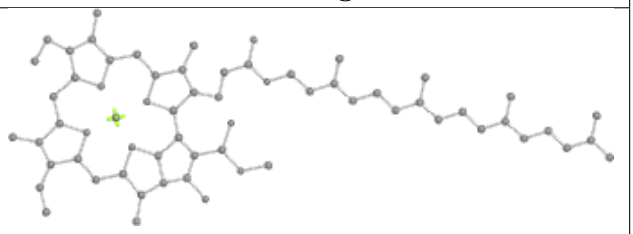
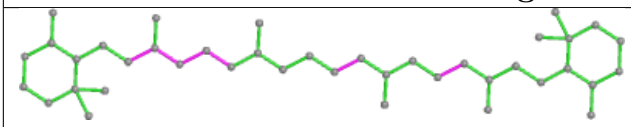


Rings

Ligand BCR J 6012



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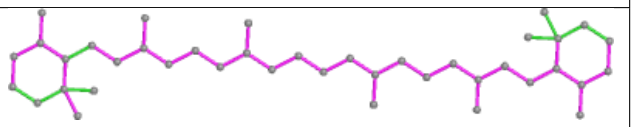

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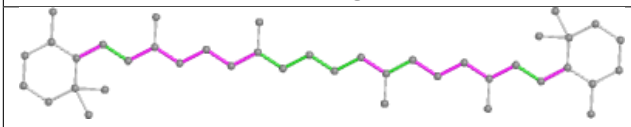

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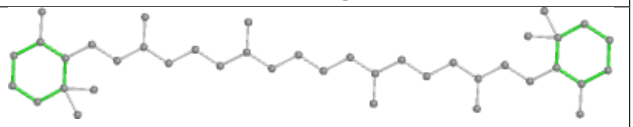

Rings

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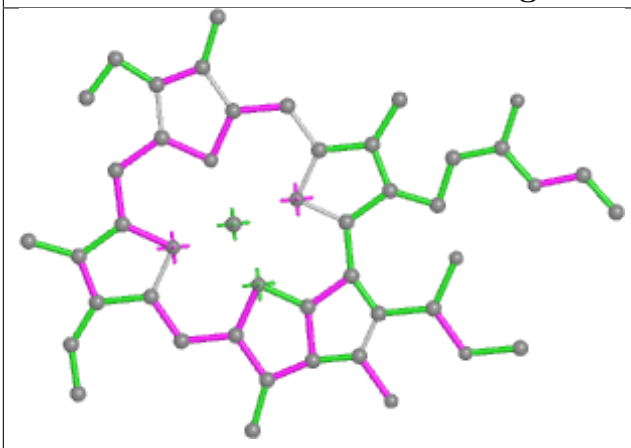
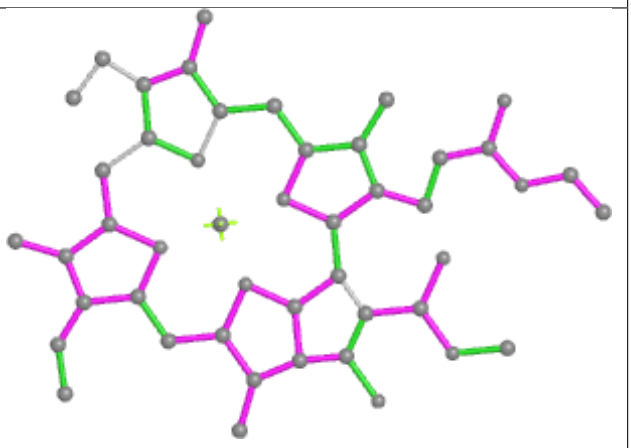
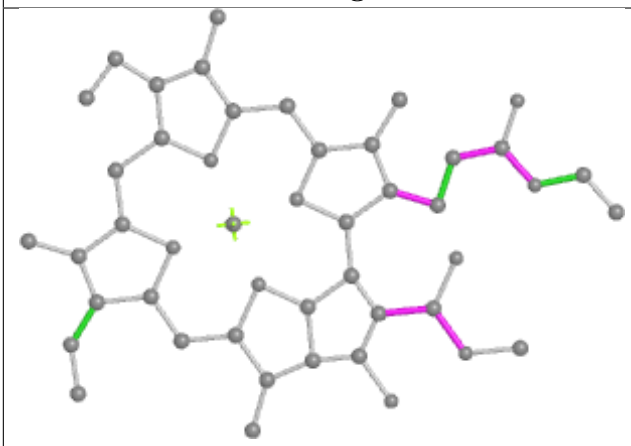


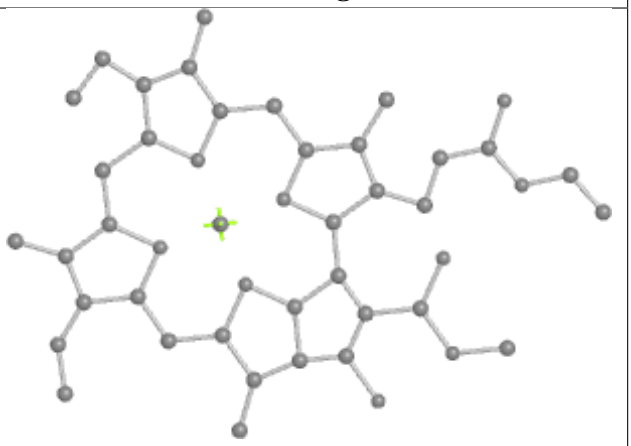
Bond lengths



Bond angles

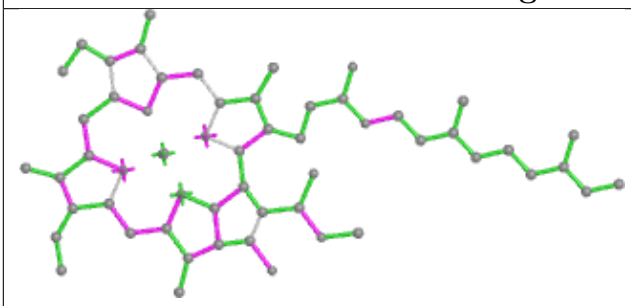


Torsions



Rings

Ligand CLA 4 4002



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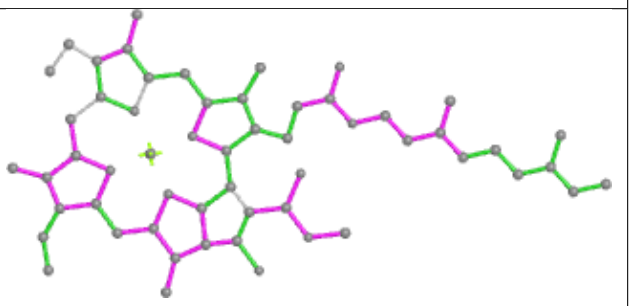

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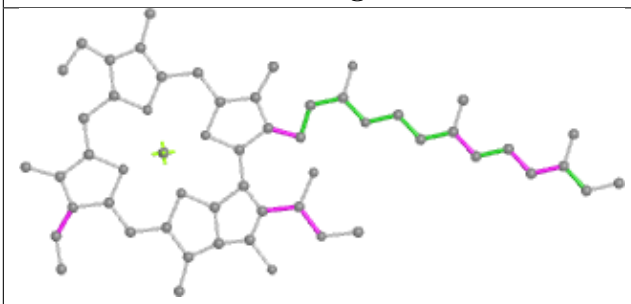

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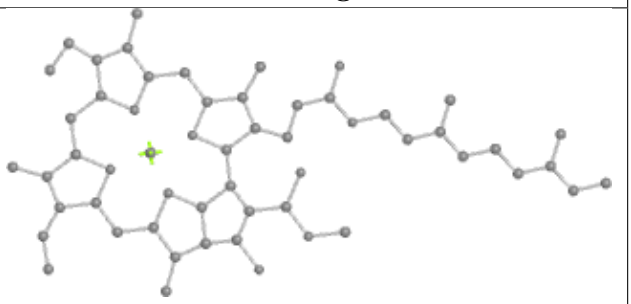
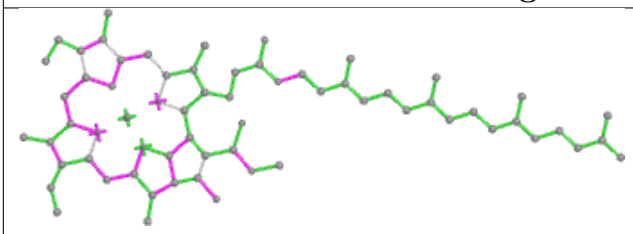


Rings

Ligand CLA 2 2008



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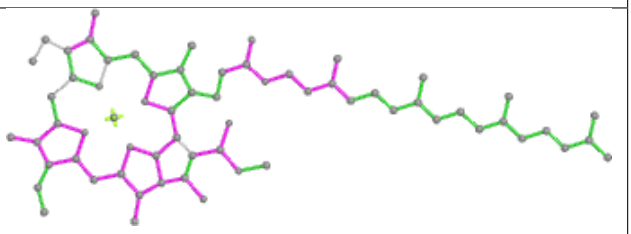

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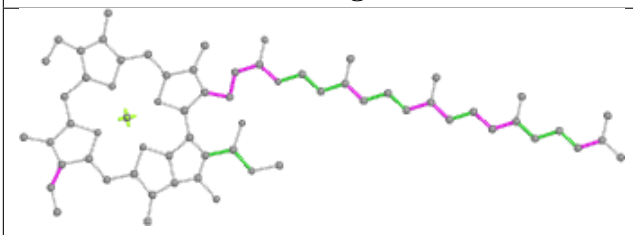

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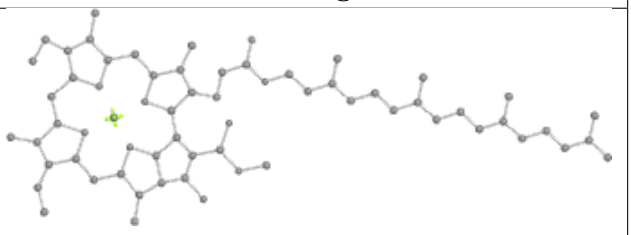
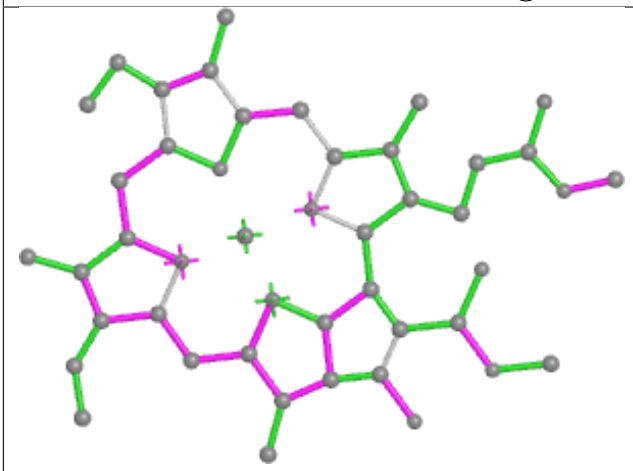


Rings

Ligand CLA L 1501



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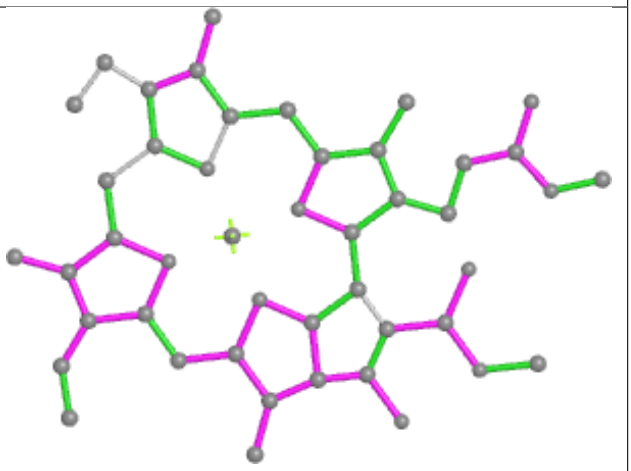
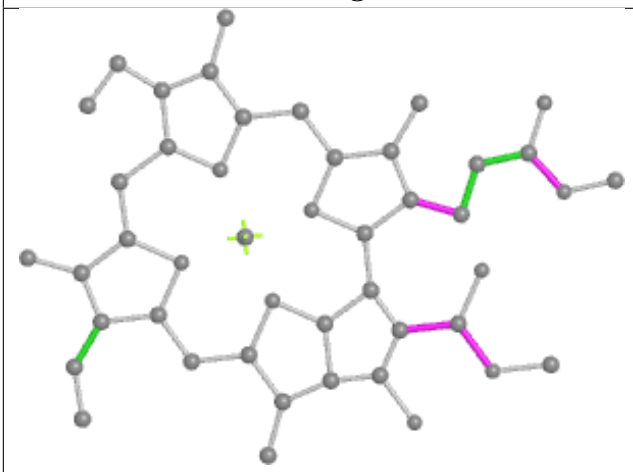


Bond angles



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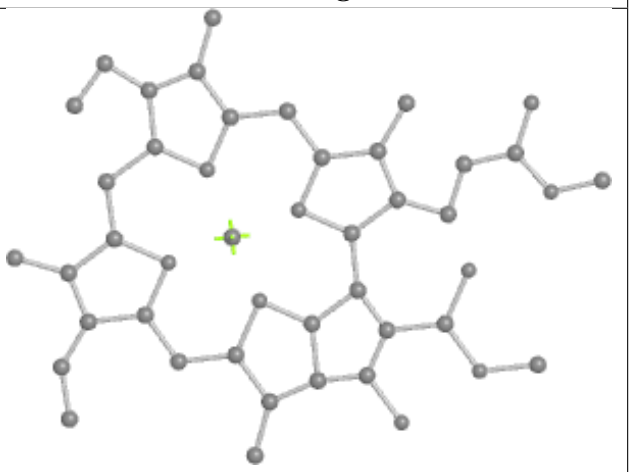
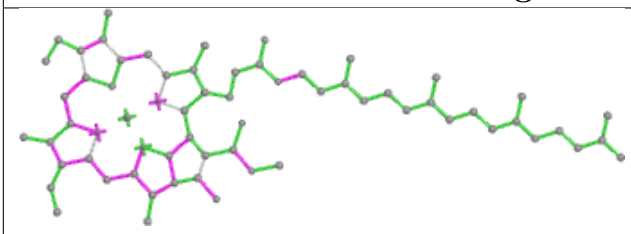
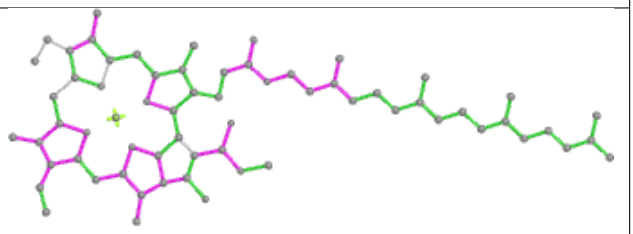
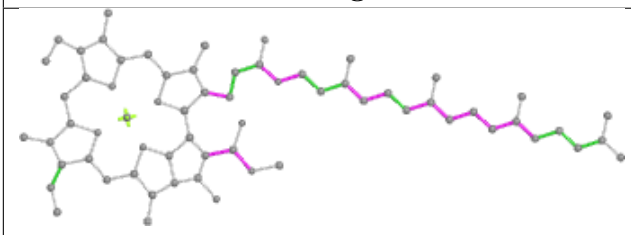
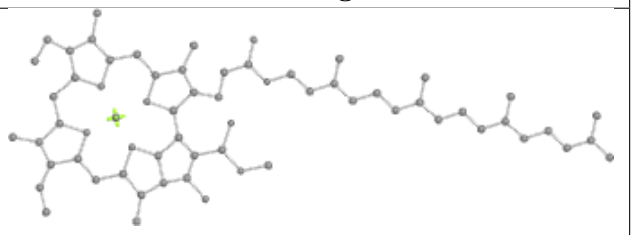


Rings

Ligand CLA A 1101	
 Bond lengths	 Bond angles
 Torsions	 Rings

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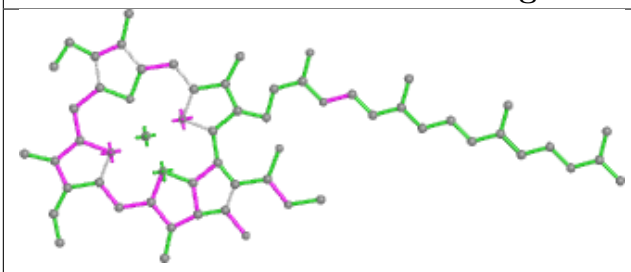
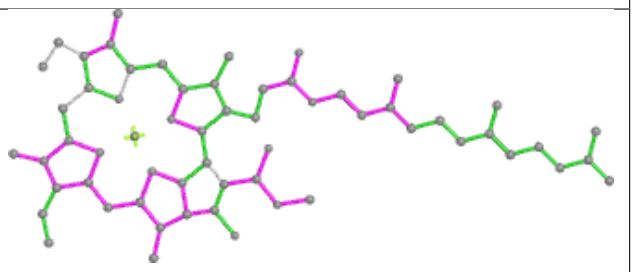
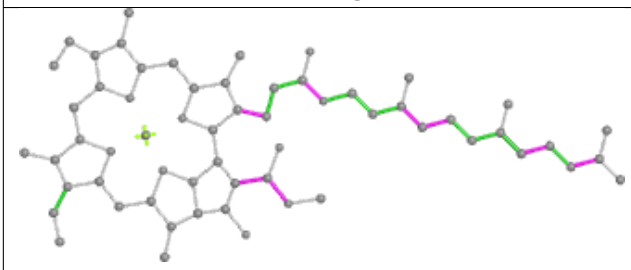
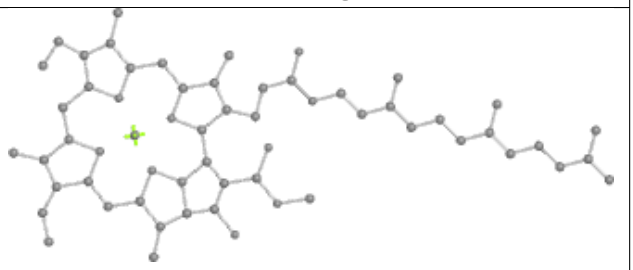
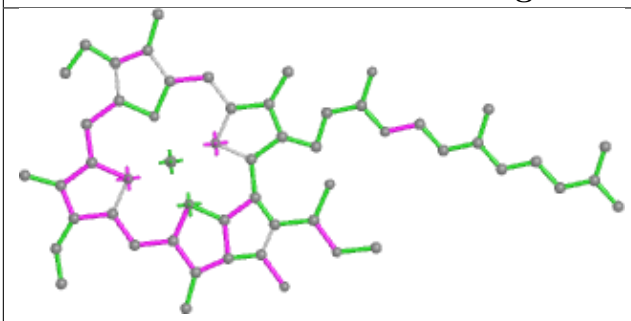
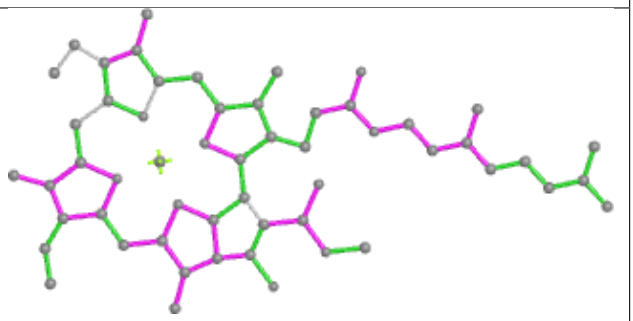
 Bond lengths	 Bond angles
 Torsions	 Rings

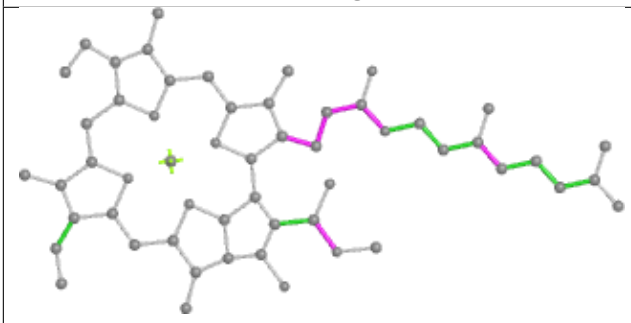
Ligand CLA B 1208



Bond lengths



Bond angles



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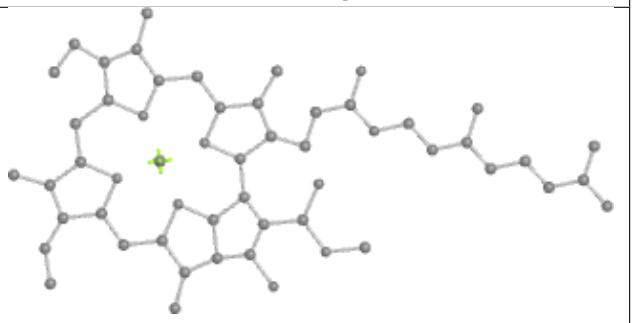

Rings

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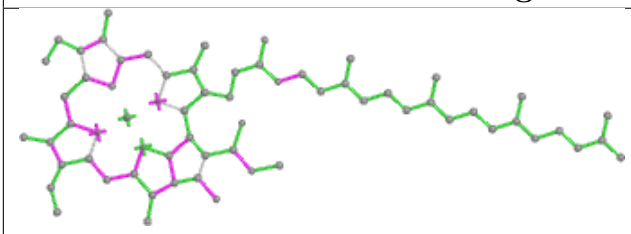

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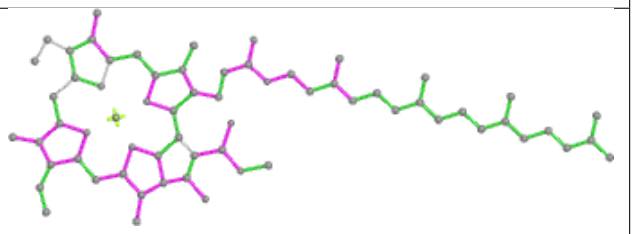

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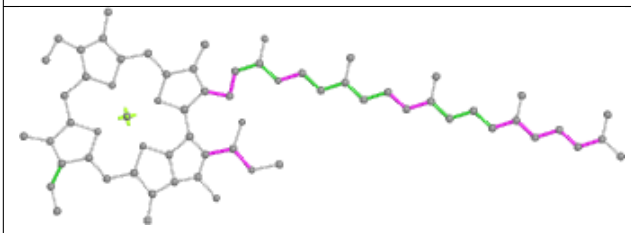

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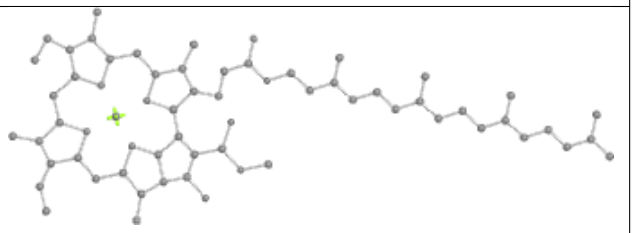
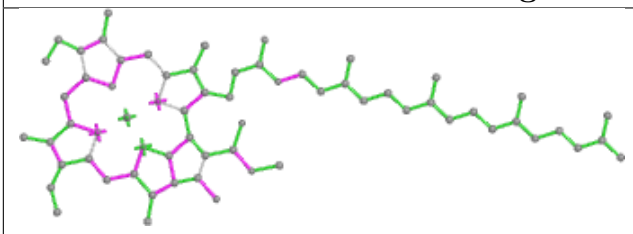


Rings

Ligand CLA 1 1004



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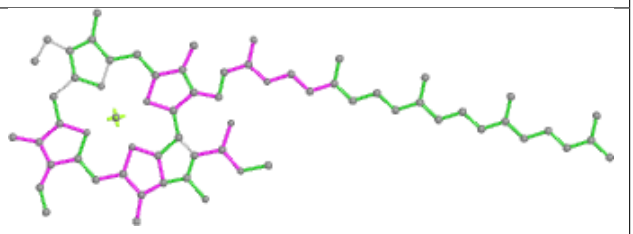
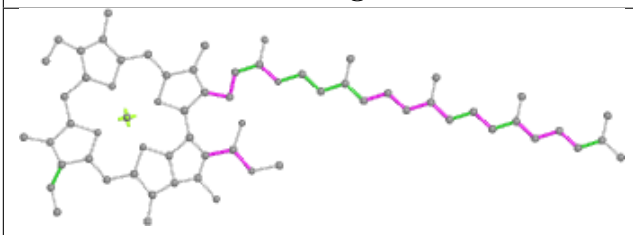


Bond angles



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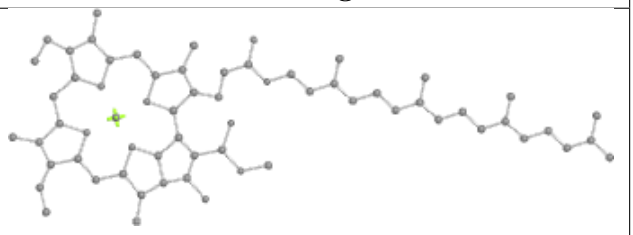
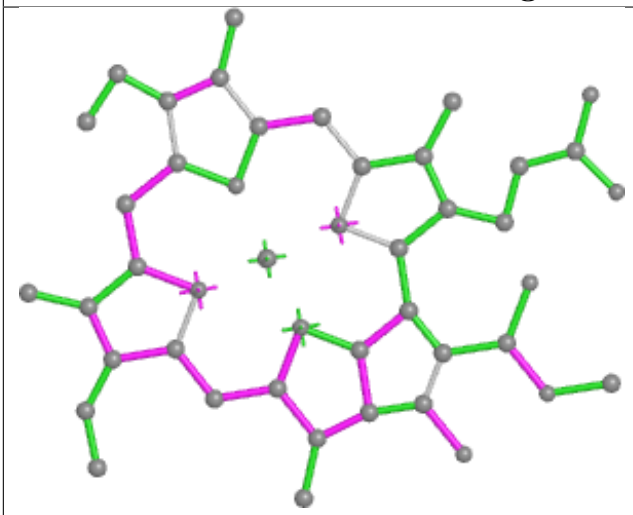


Rings

Ligand CLA 3 3004



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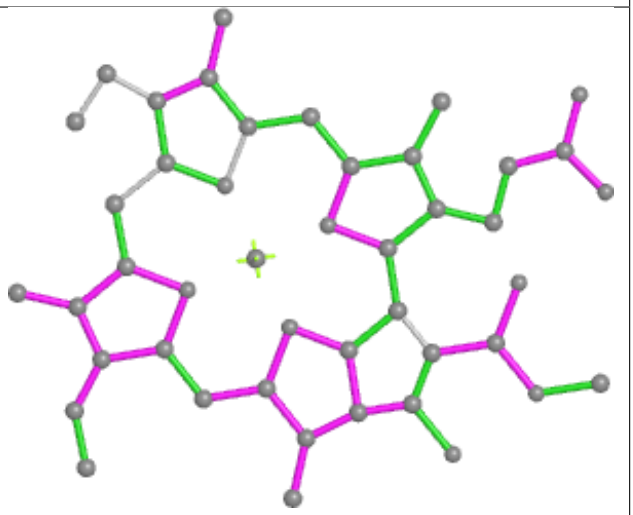

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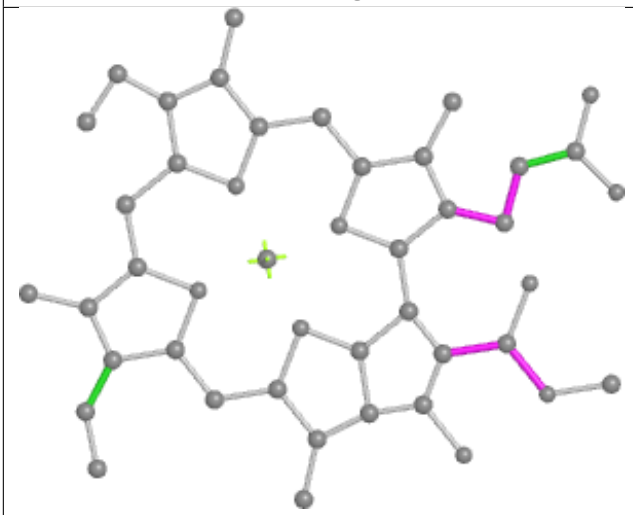

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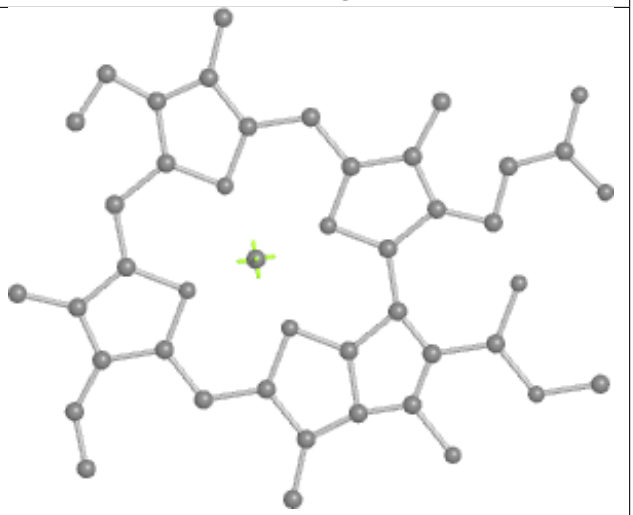
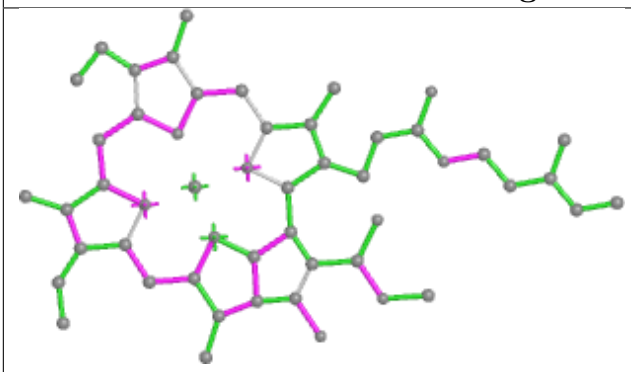


Rings

Ligand CLA 4 4013



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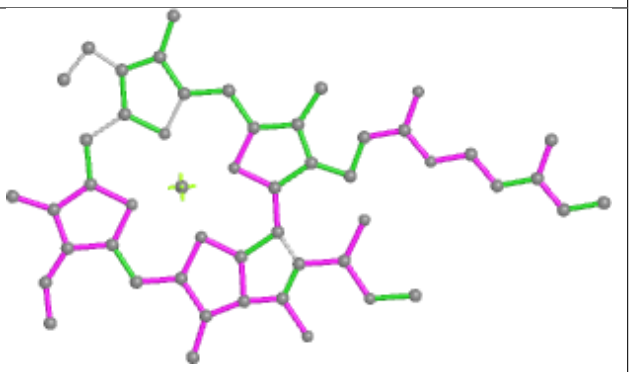

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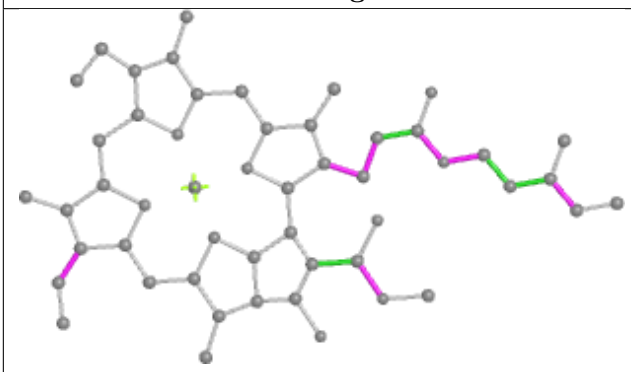

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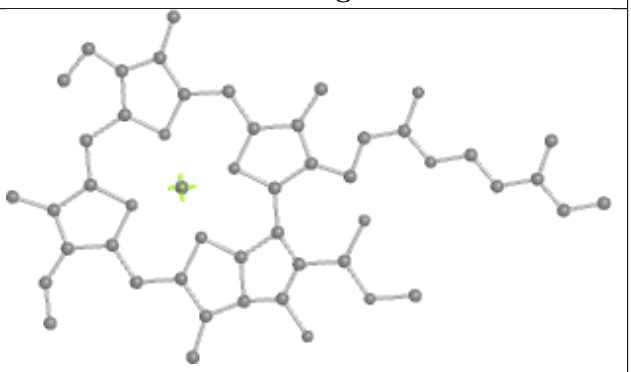
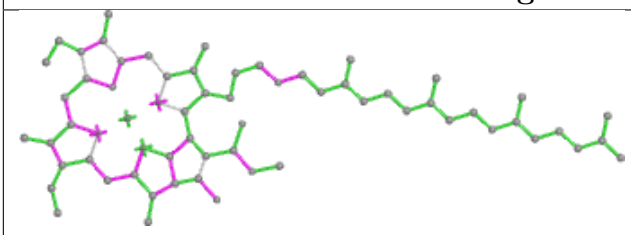


Rings

Ligand CLA F 1303



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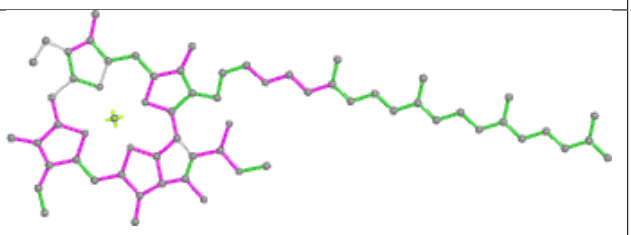

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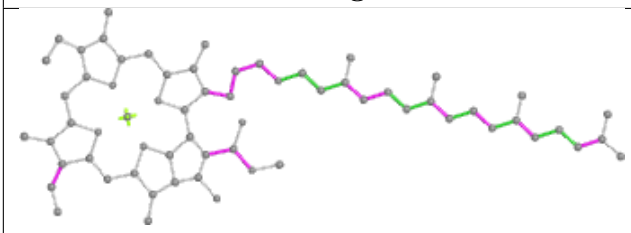

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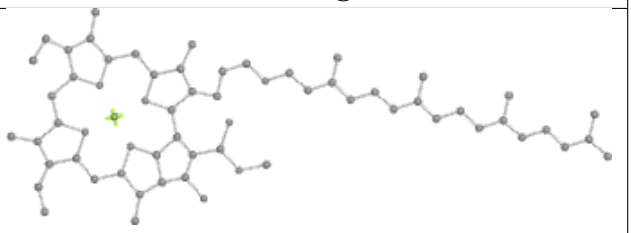
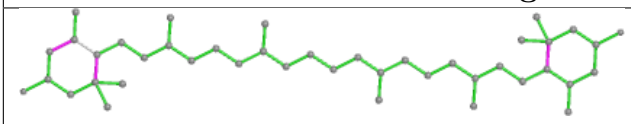


Rings

Ligand LUT 1 1501



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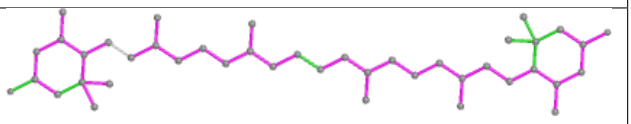

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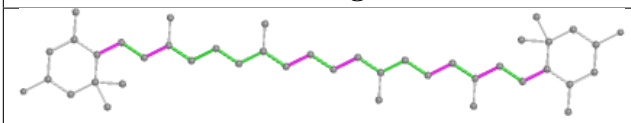

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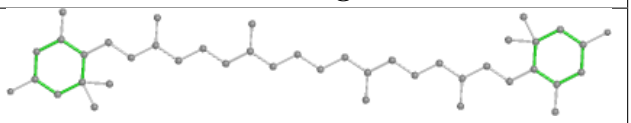
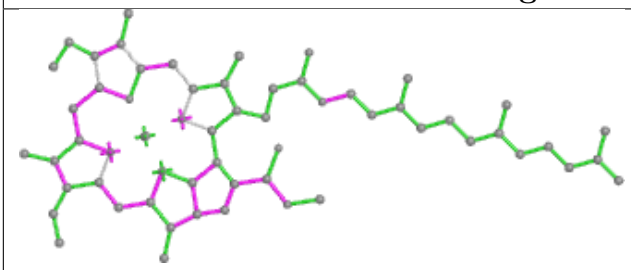


Rings

Ligand CLA 2 2004



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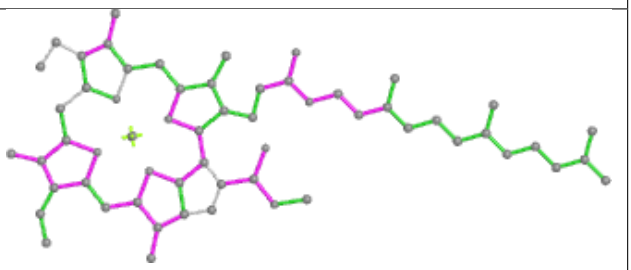
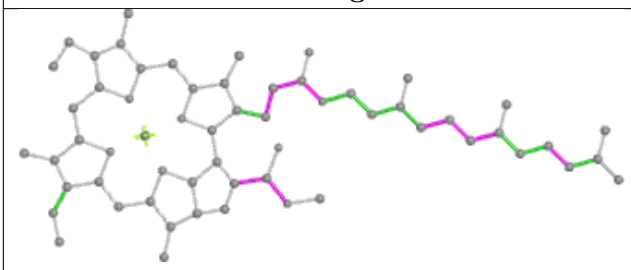
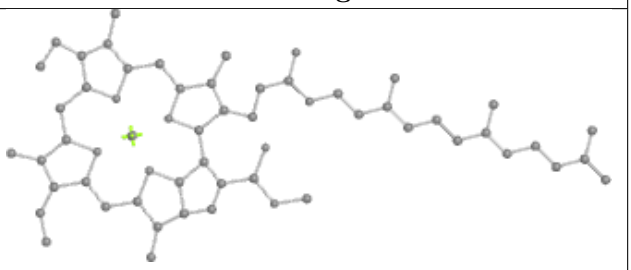


Bond angles

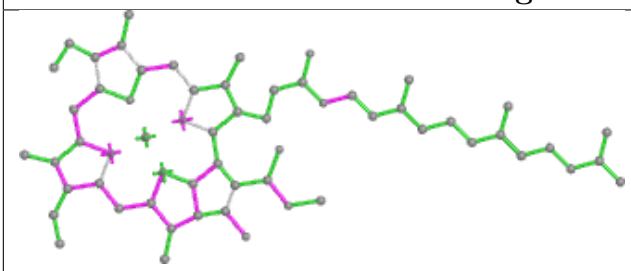


Torsions

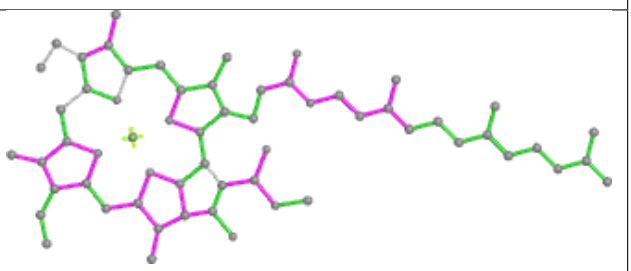


Rings

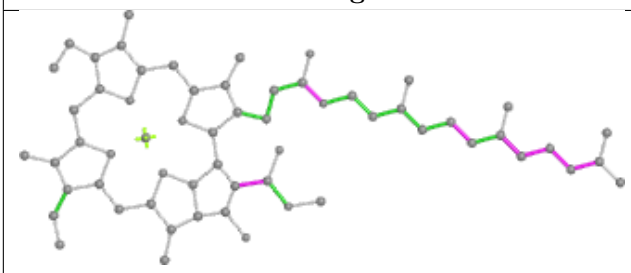
Ligand CLA B 1218



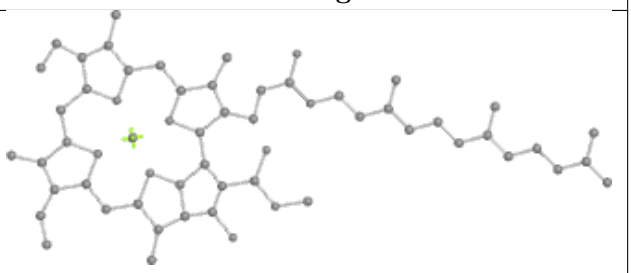
Bond lengths



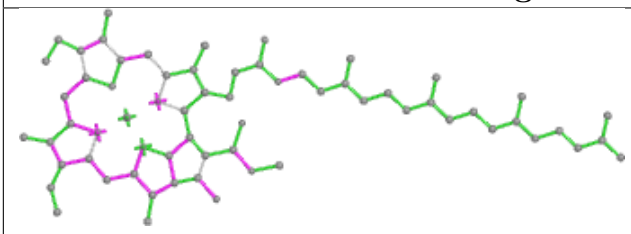
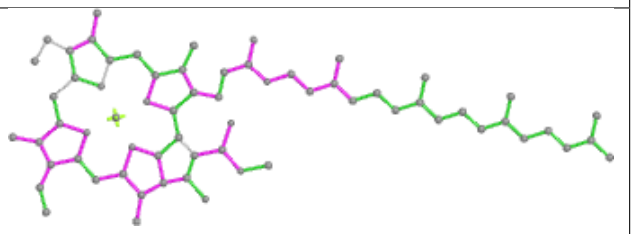
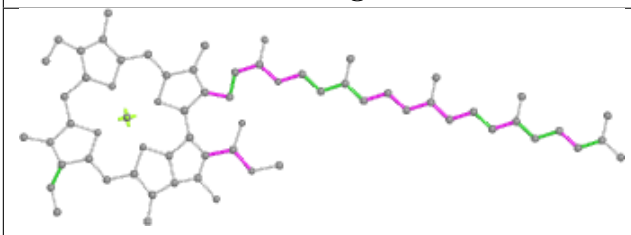
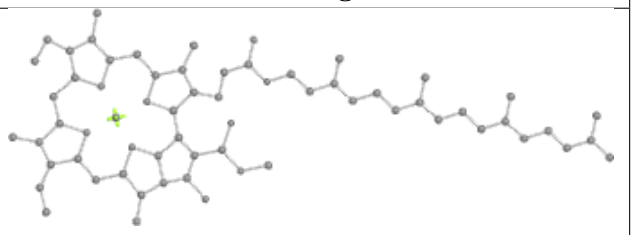
Bond angles



Torsions



Rings

Ligand CLA A 1103	
 Bond lengths	 Bond angles
 Torsions	 Rings

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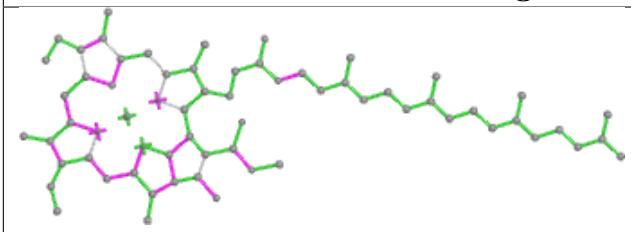
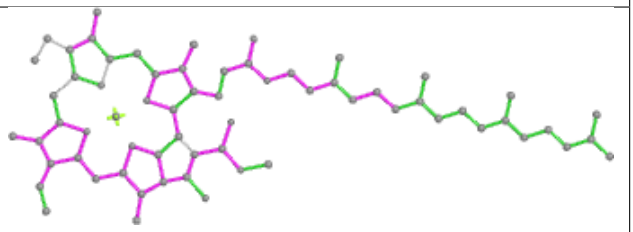
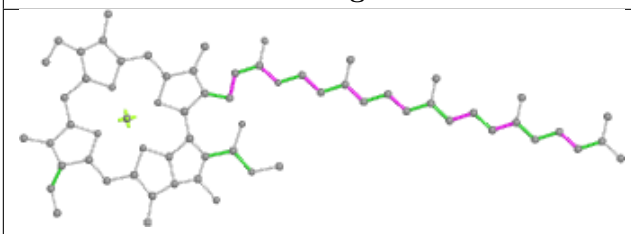
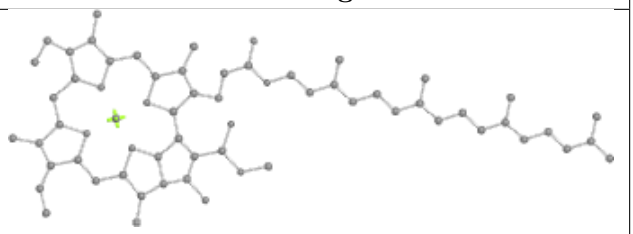
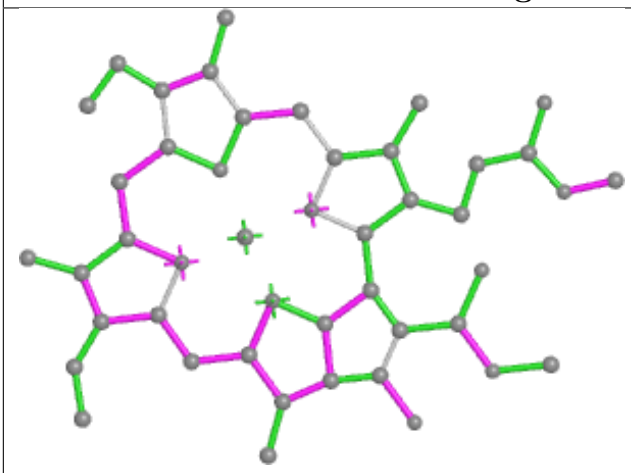
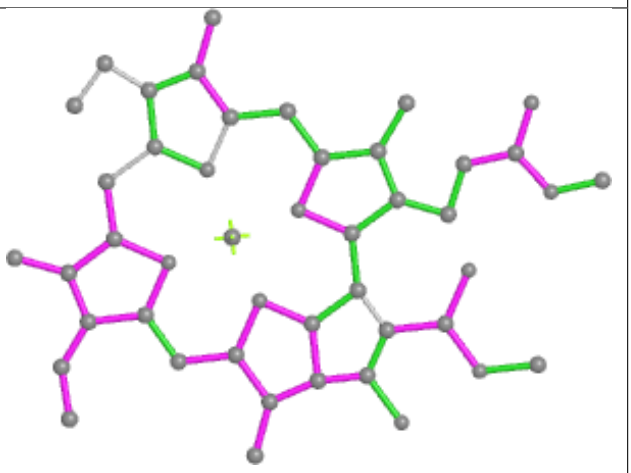
 Bond lengths	 Bond angles
 Torsions	 Rings

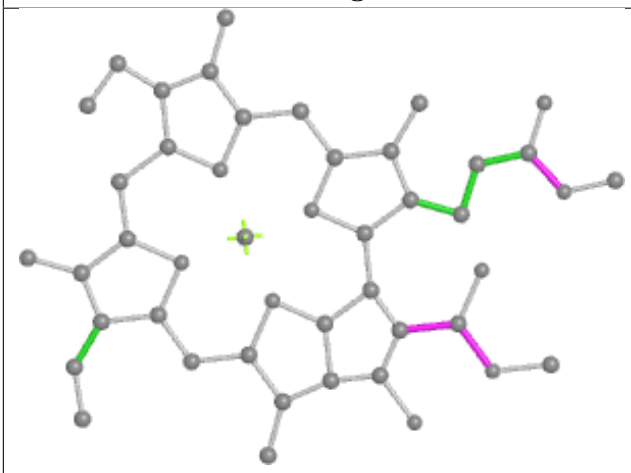
Ligand CLA A 1118



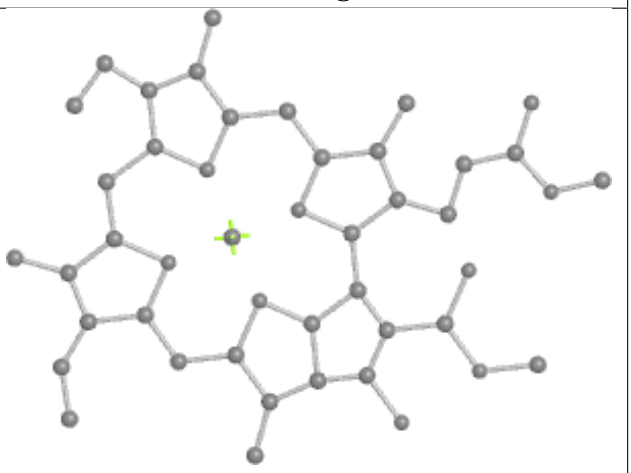
Bond lengths



Bond angles

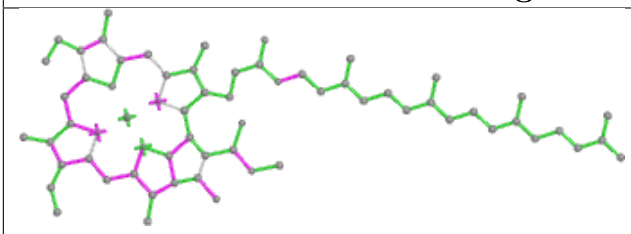


Torsions



Rings

Ligand CLA B 1224



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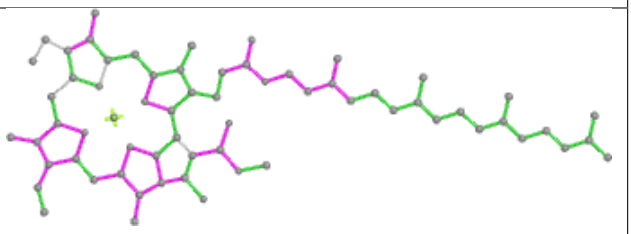
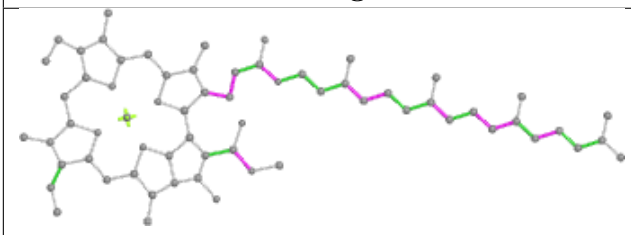


Bond angles



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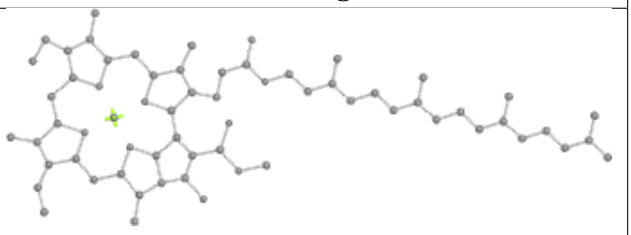
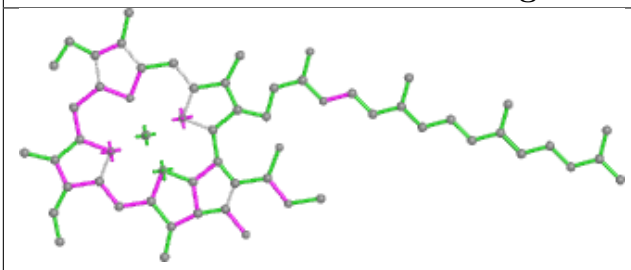


Rings

Ligand CLA 2 2002



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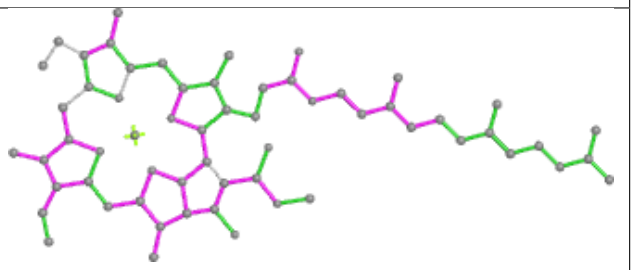
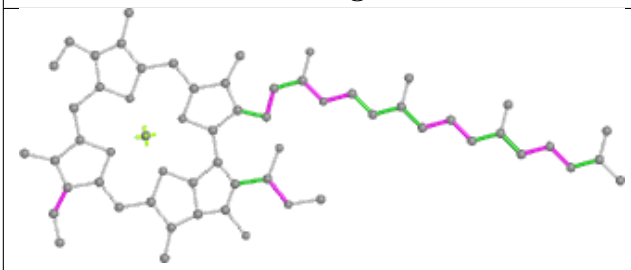


Bond angles



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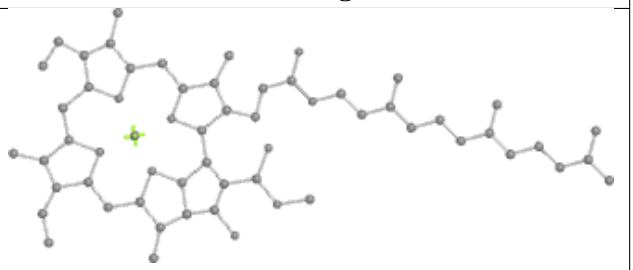
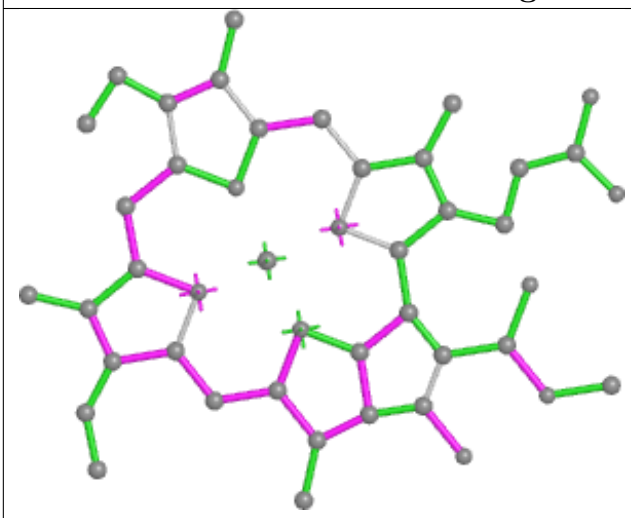
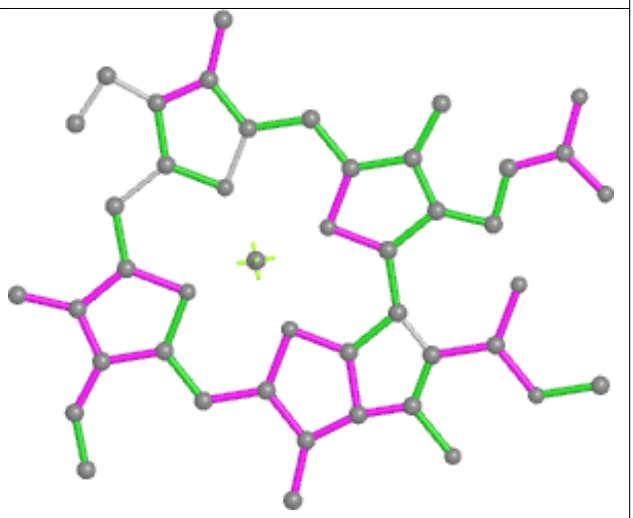


Rings

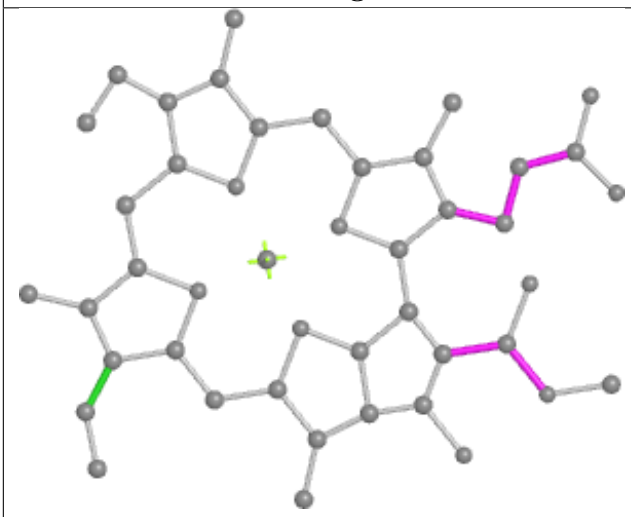
Ligand CLA 3 3017



Bond lengths



Bond angles



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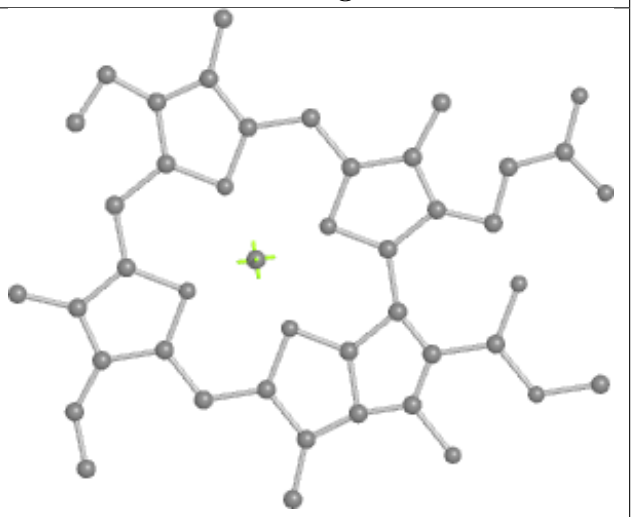
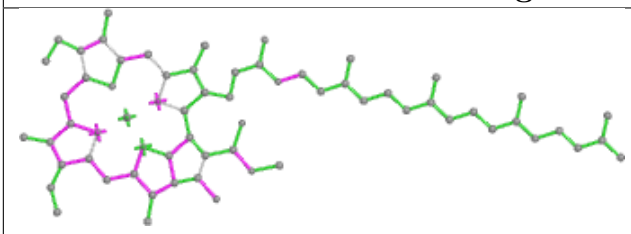
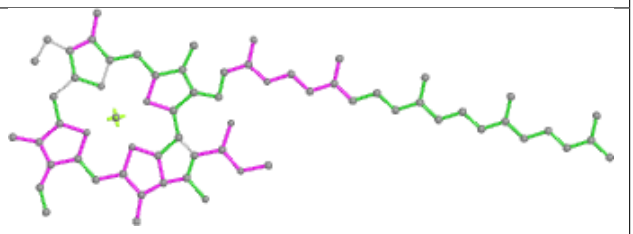
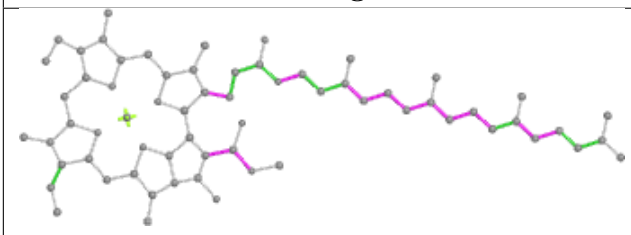
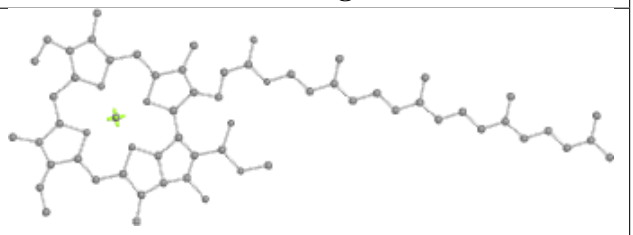


Rings

Ligand CLA B 1220	
 Bond lengths	 Bond angles
 Torsions	 Rings

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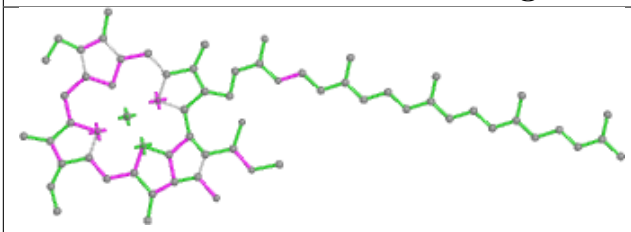
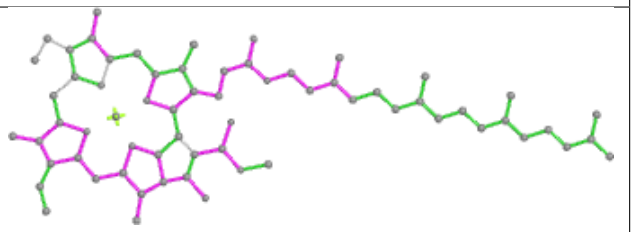
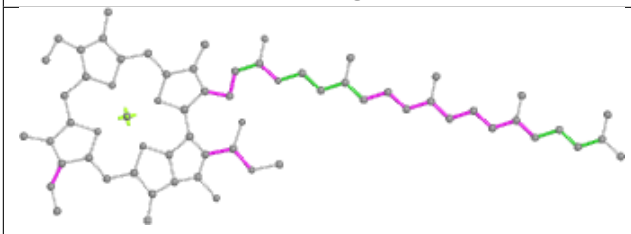
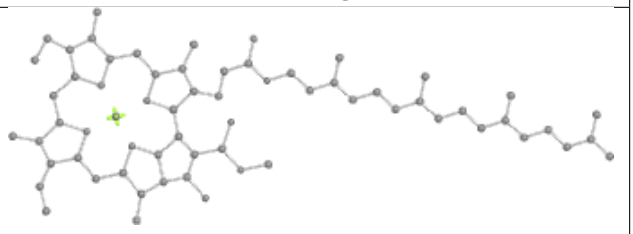
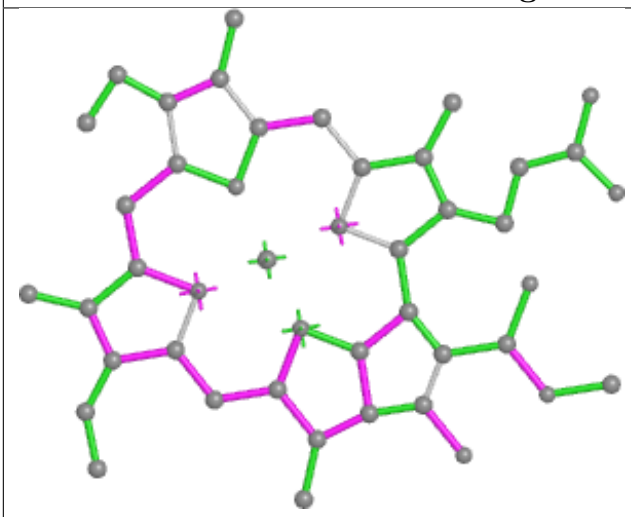
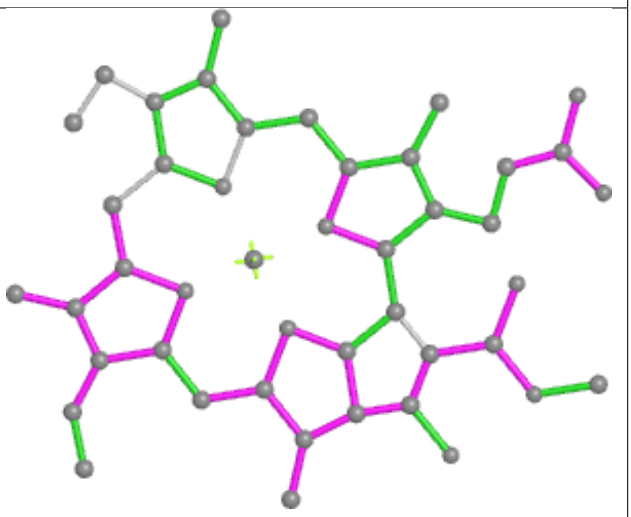
 Bond lengths	 Bond angles
 Torsions	 Rings

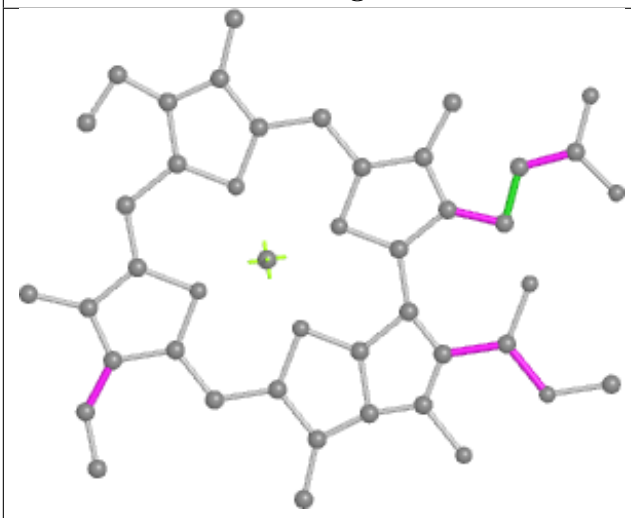
Ligand CLA 1 1014



Bond lengths



Bond angles



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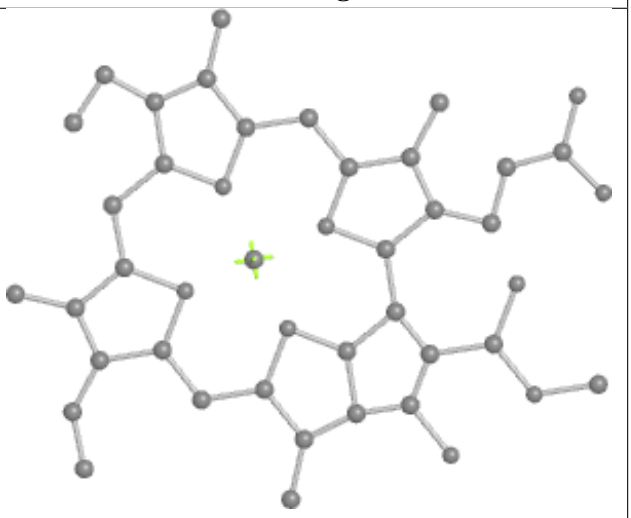
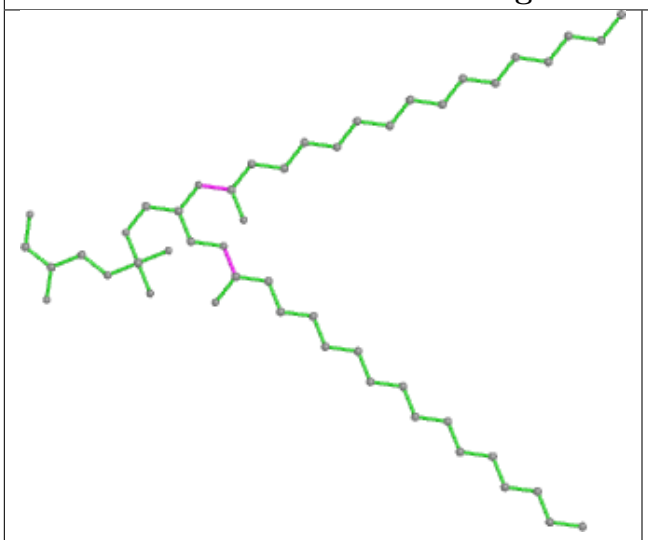


Rings

Ligand LHG B 7004



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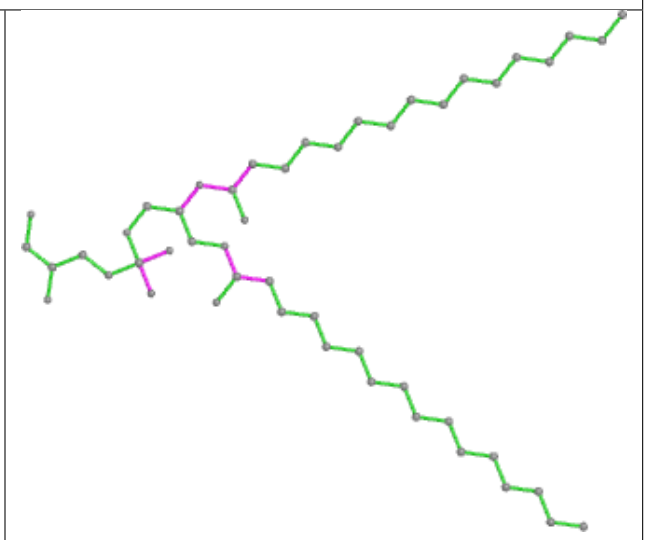

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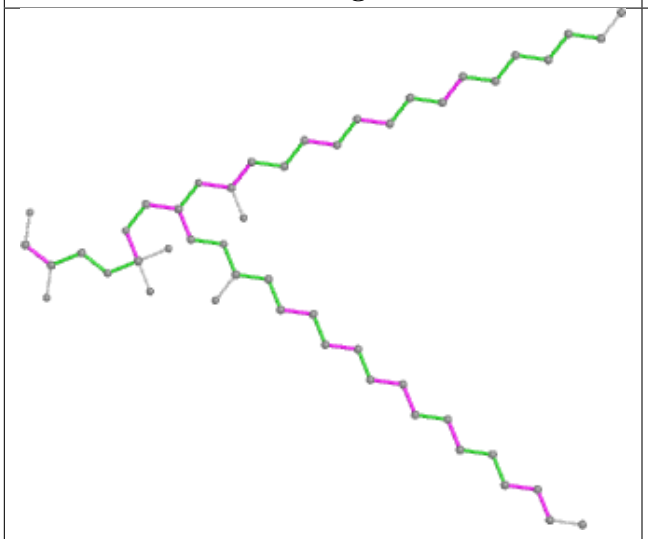

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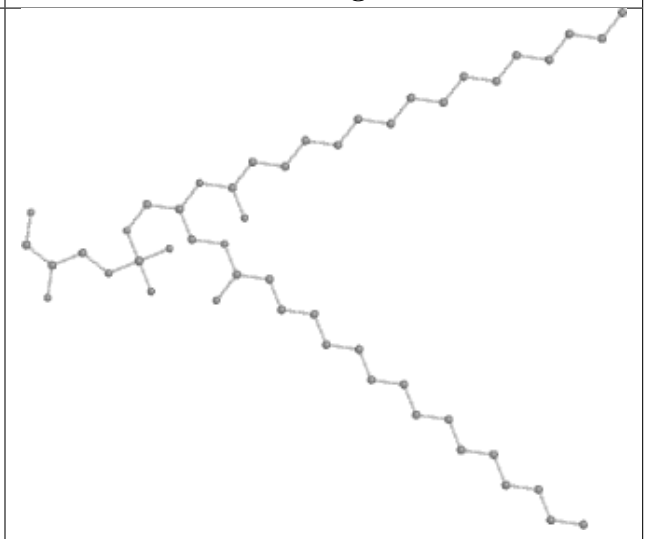
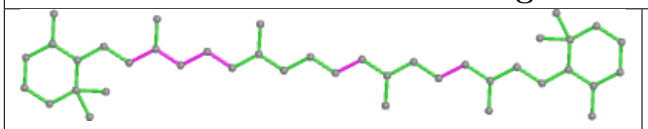


Rings

Ligand BCR F 6016



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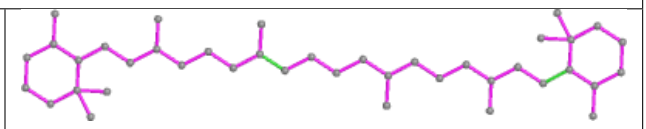
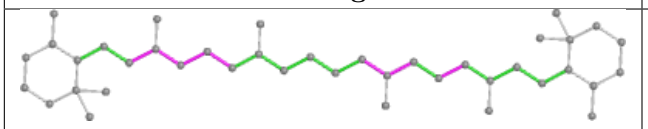


Bond angles



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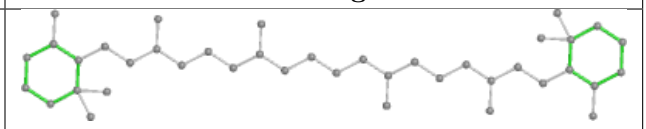
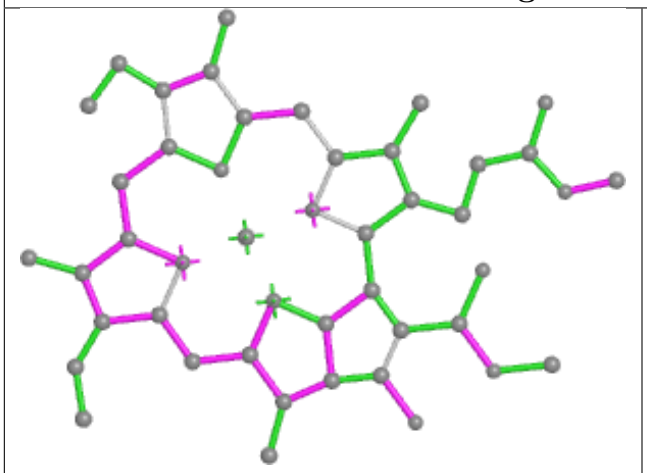


Rings

Ligand CLA F 1302



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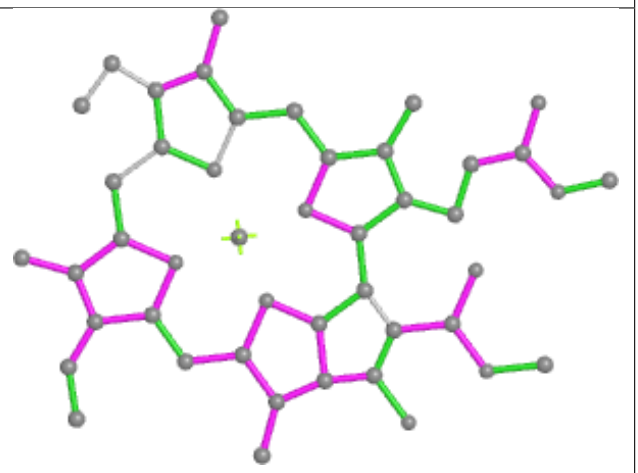
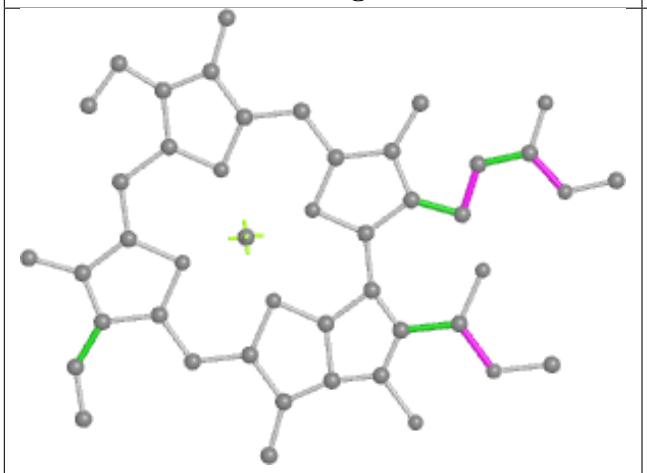


Bond angles



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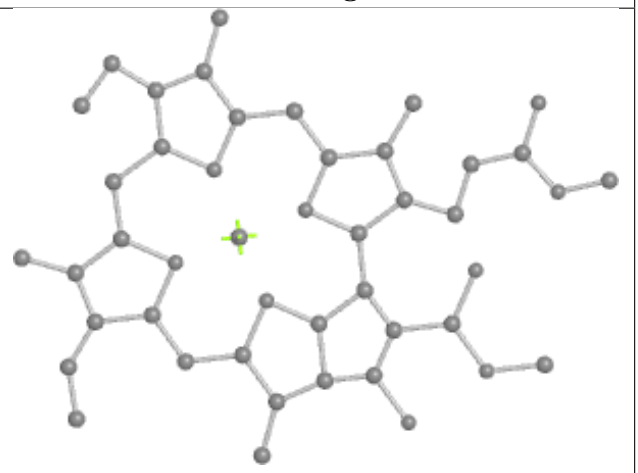
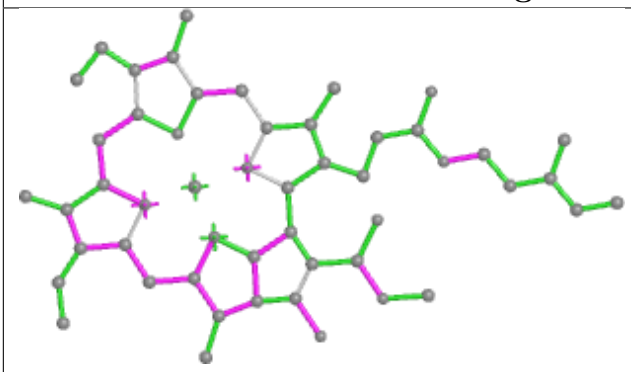
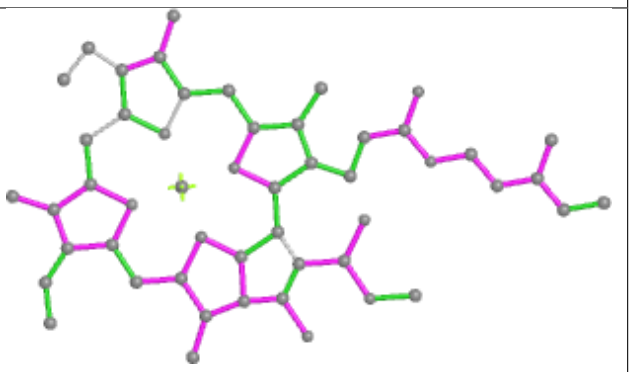
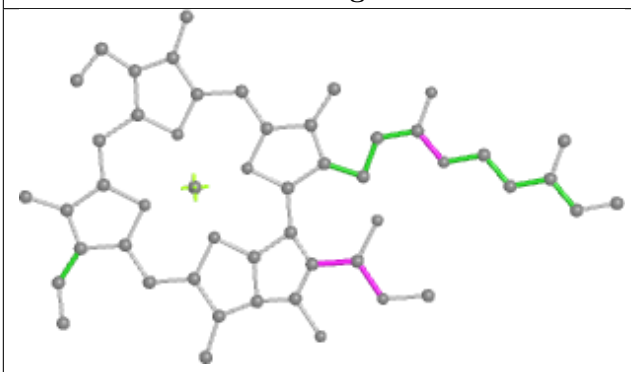
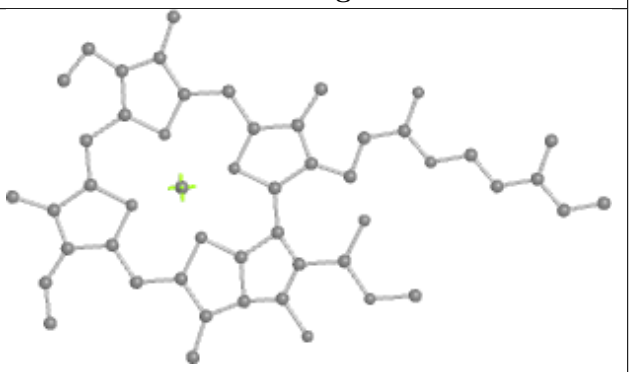


Rings

Ligand CLA A 1135	
 Bond lengths	 Bond angles
 Torsions	 Rings

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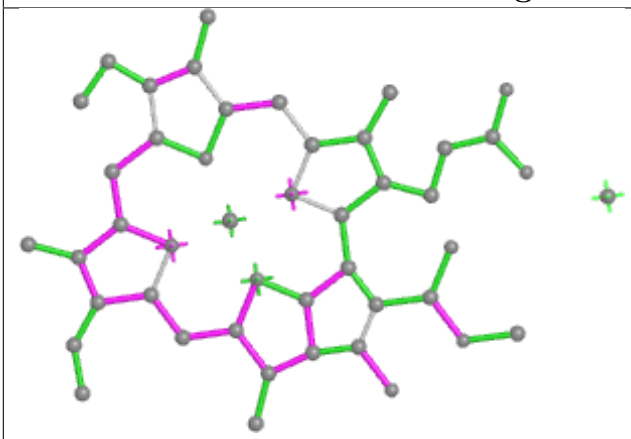
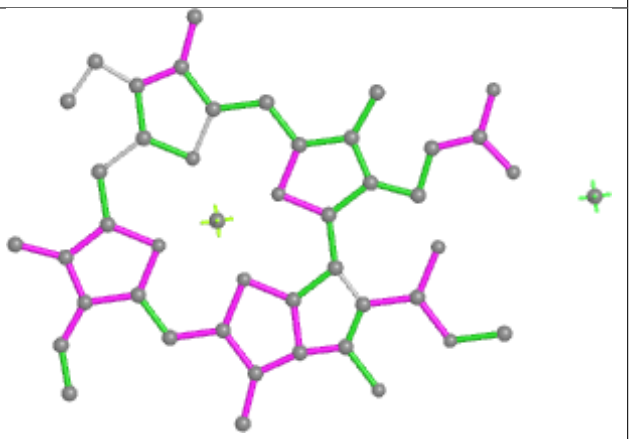


Bond lengths



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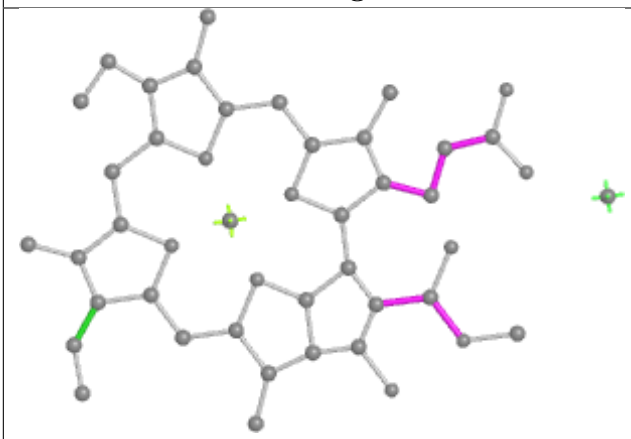

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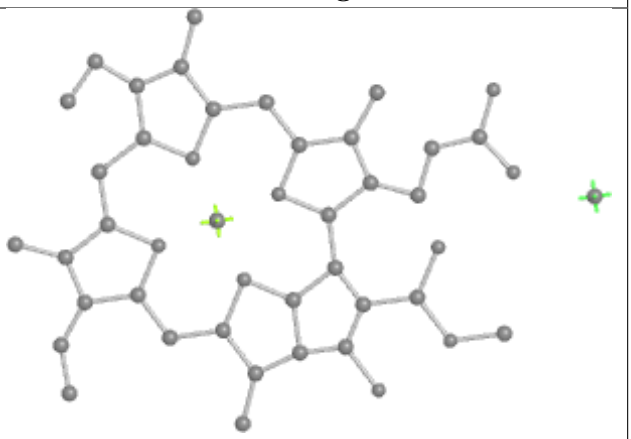
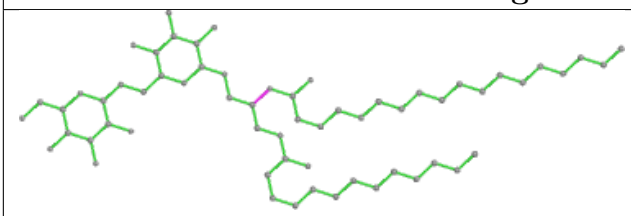


Rings

Ligand DGD B 7101



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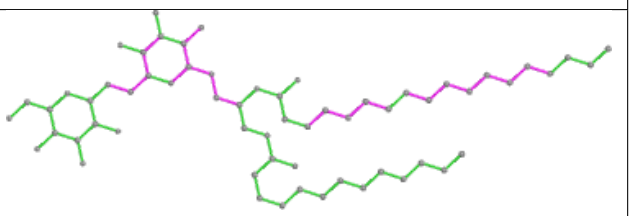

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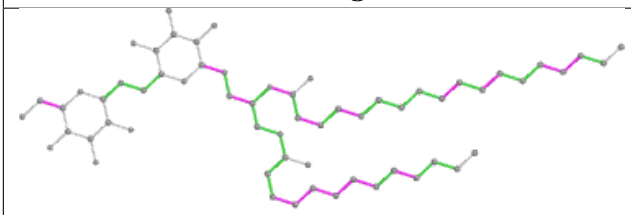

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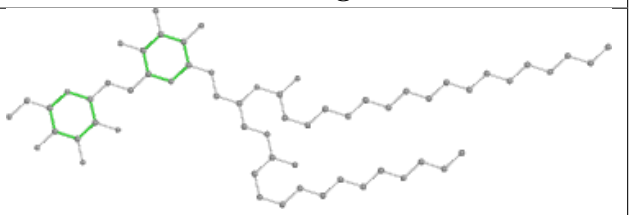
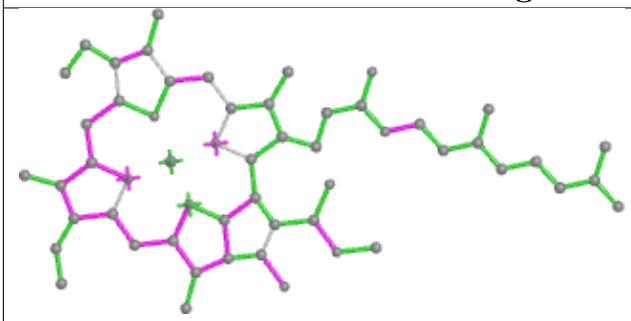


Rings

Ligand CLA B 1204



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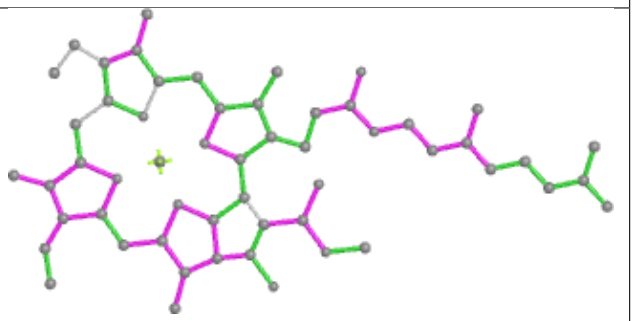

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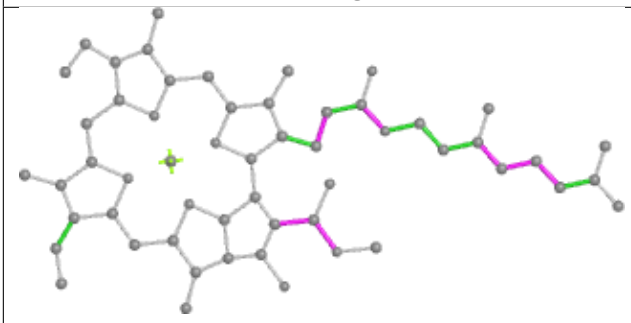

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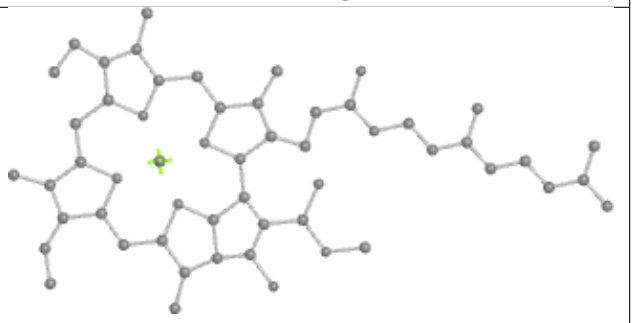

Rings

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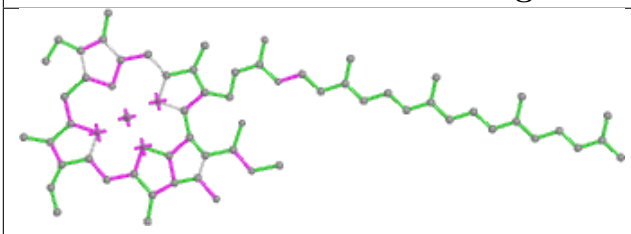

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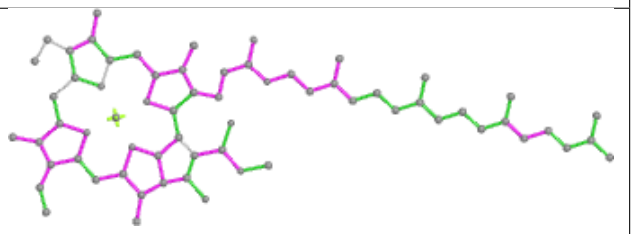

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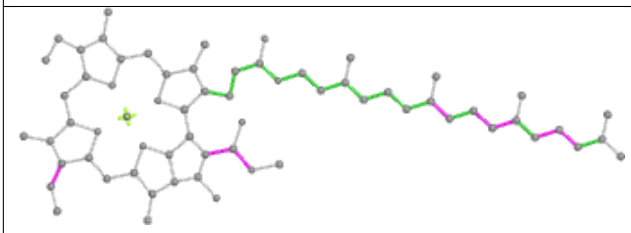

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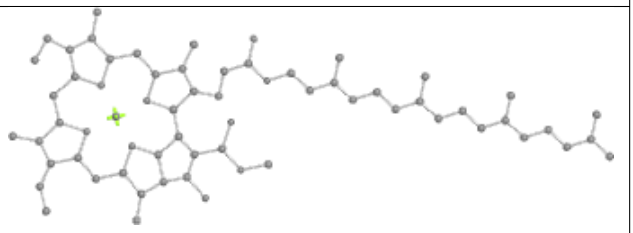

Rings

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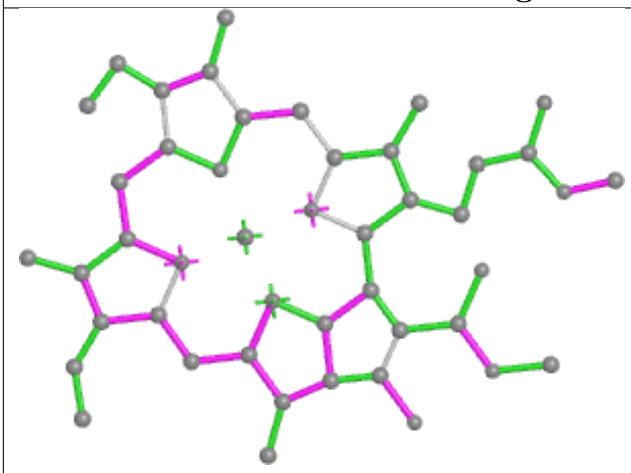

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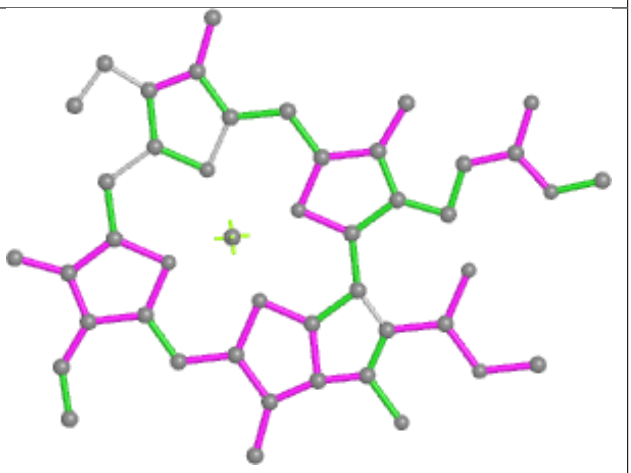

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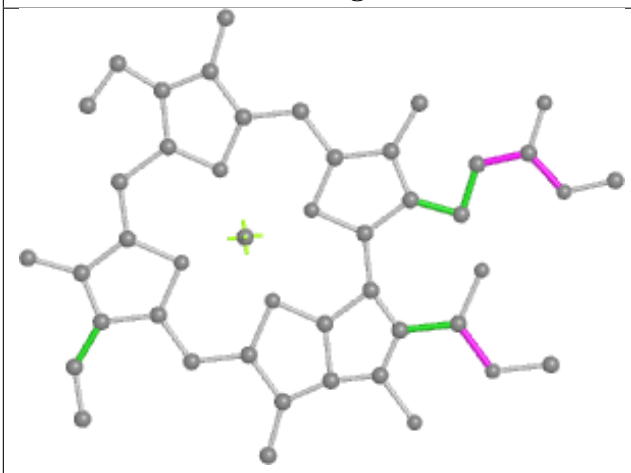

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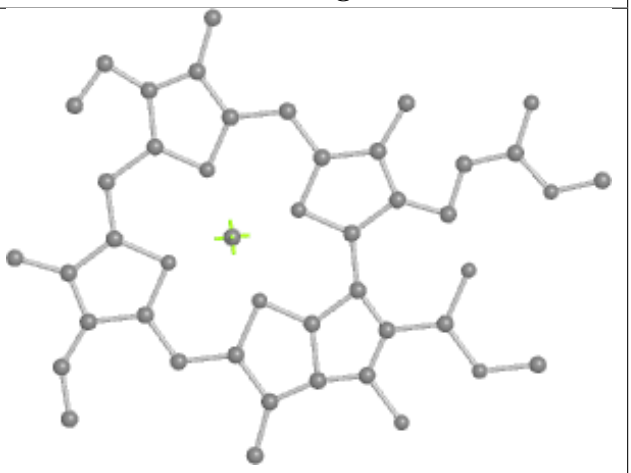

Rings

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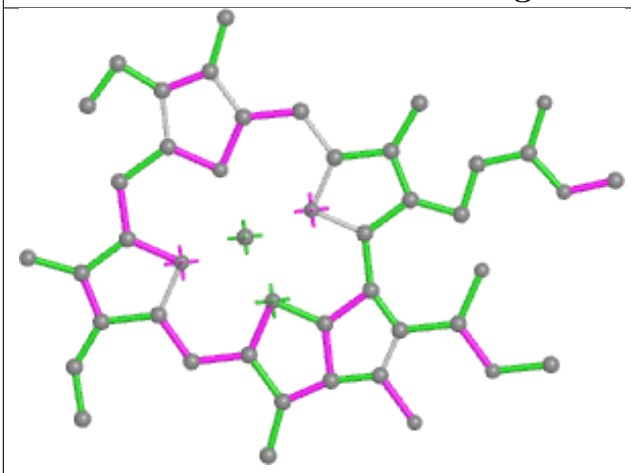

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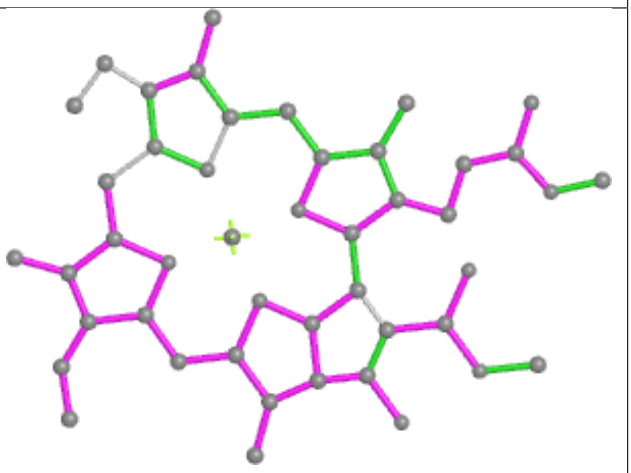

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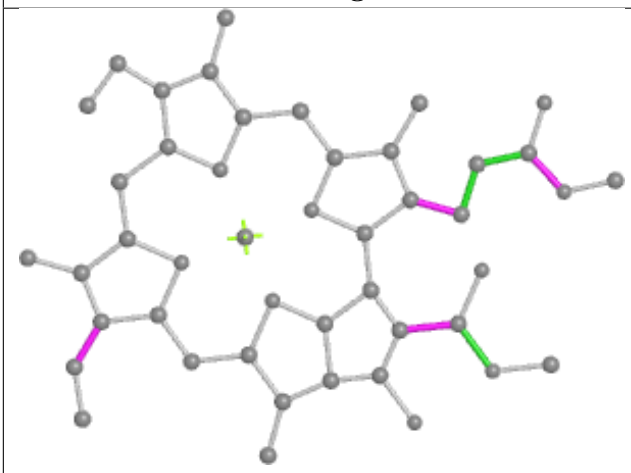

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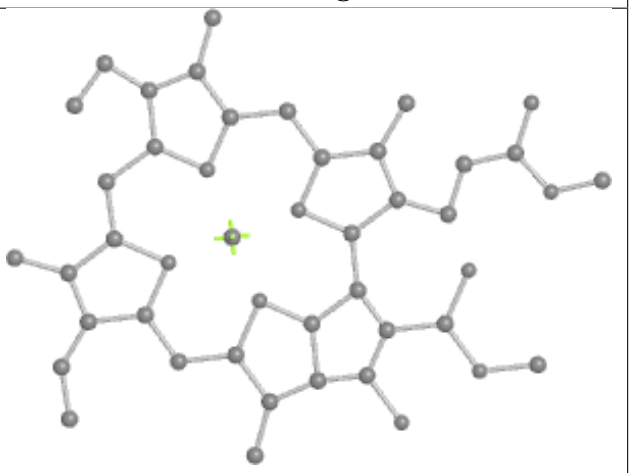

Rings

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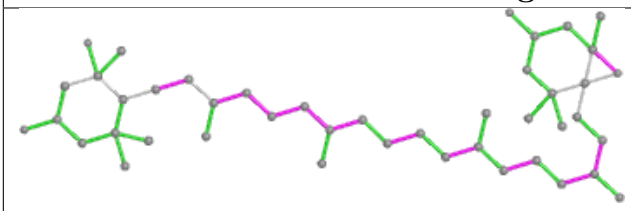

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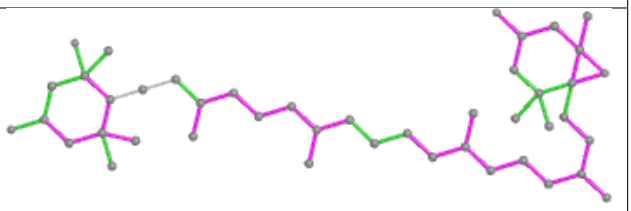

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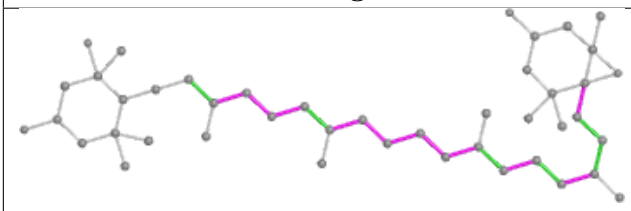

Torsions

Rings

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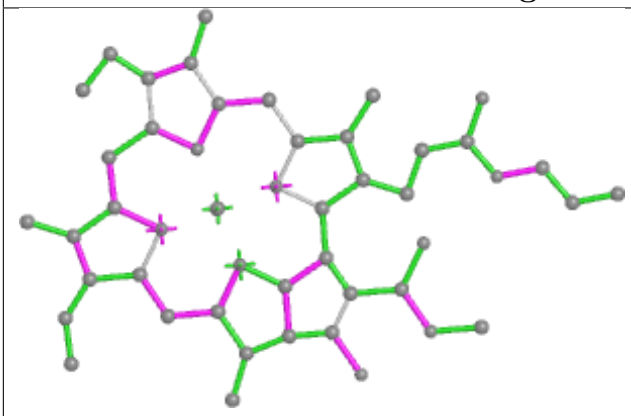

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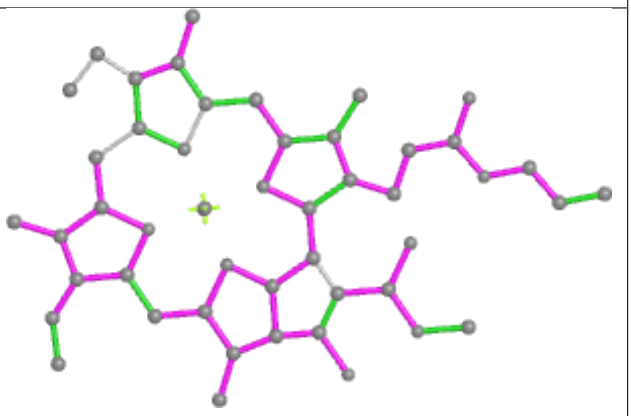

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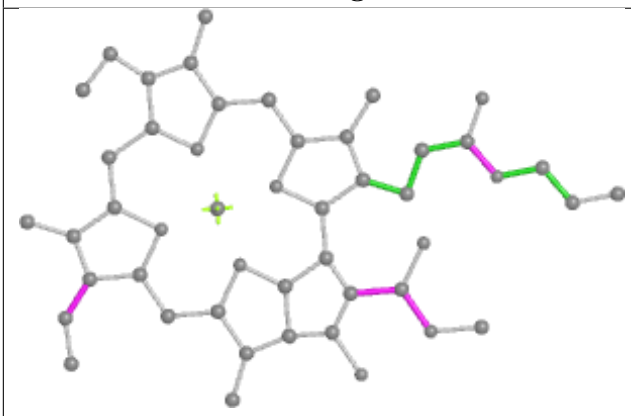

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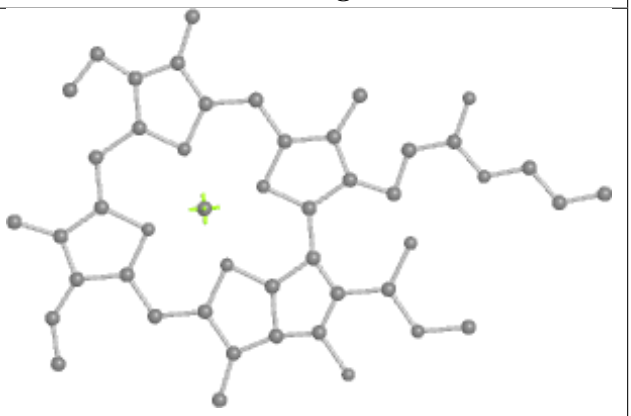
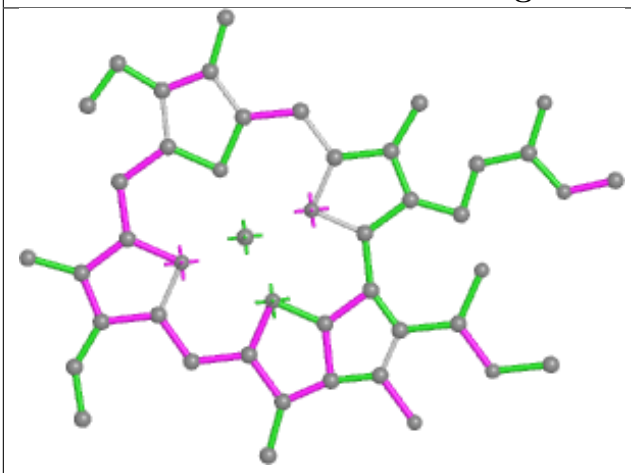


Rings

Ligand CLA A 1134



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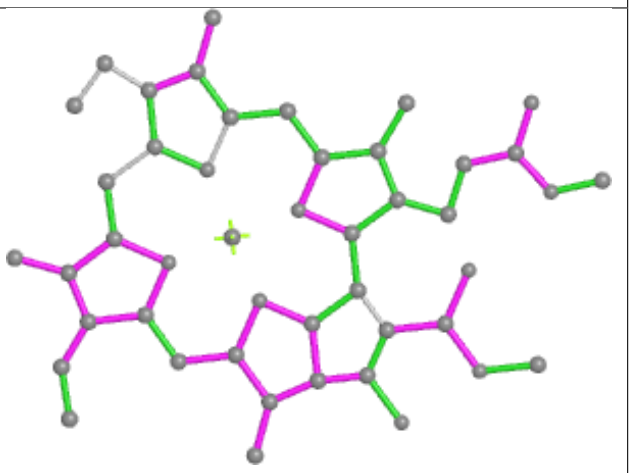

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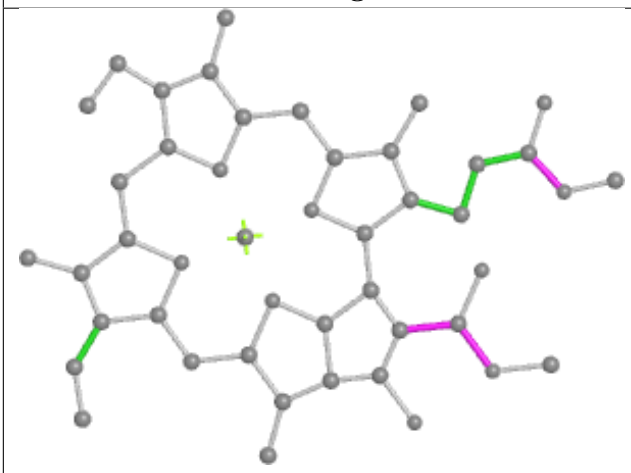

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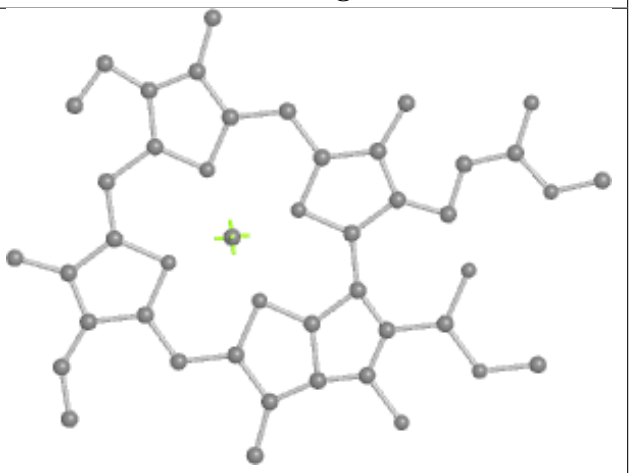

Rings

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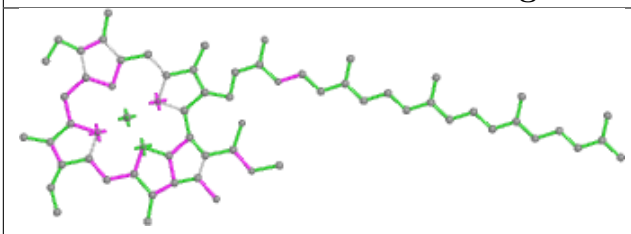

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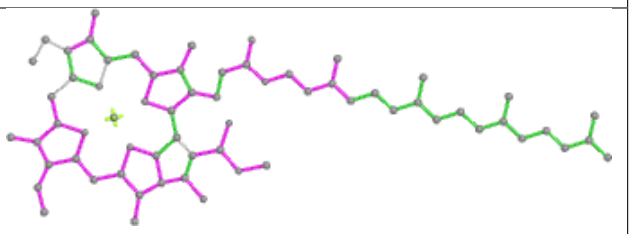

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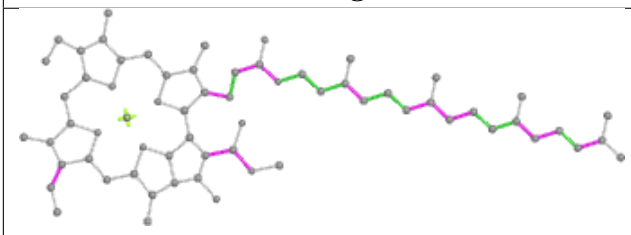

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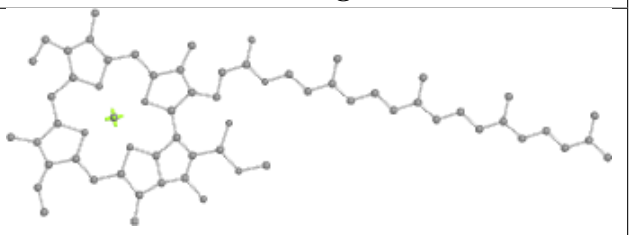
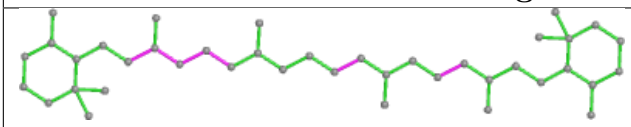


Rings

Ligand BCR L 6019



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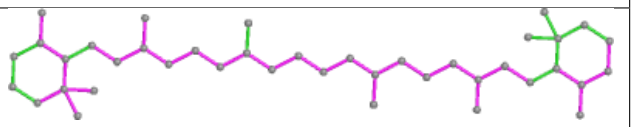
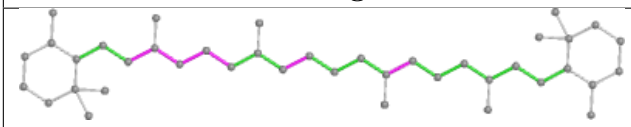


Bond angles



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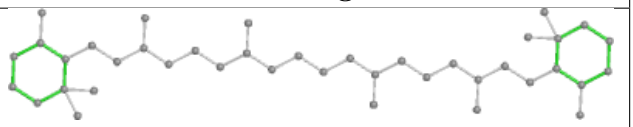
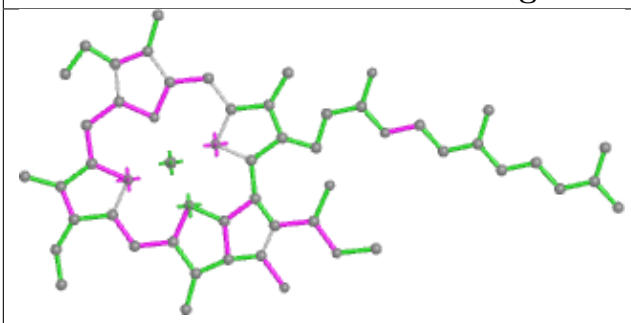


Rings

Ligand CLA 1 1007



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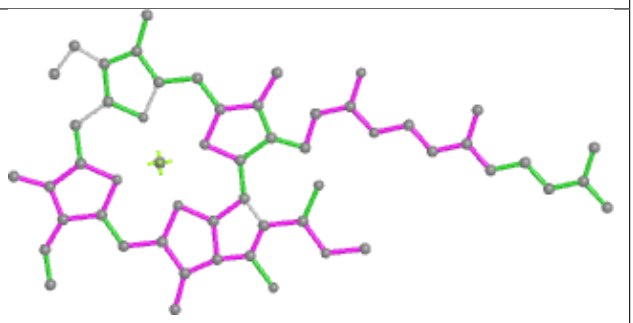
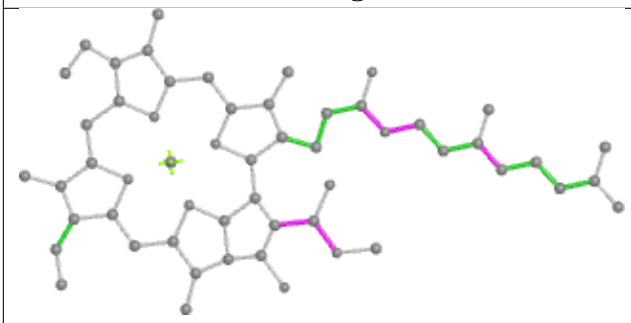


Bond angles



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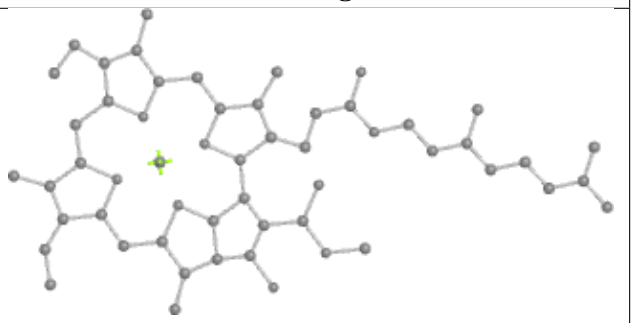
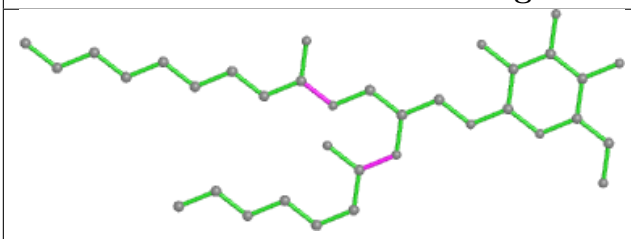


Rings

Ligand LMG J 5001



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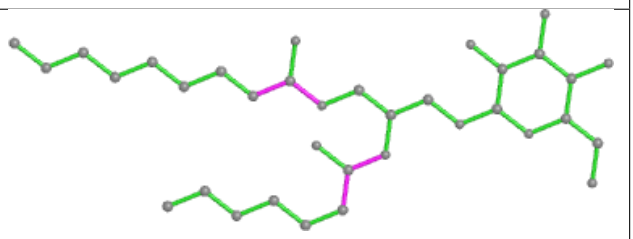
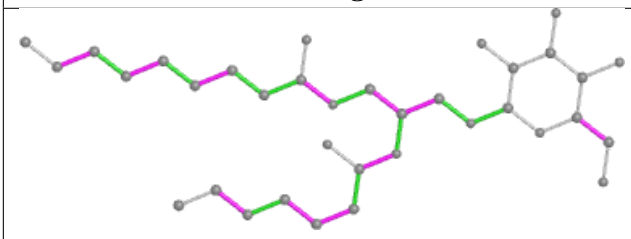
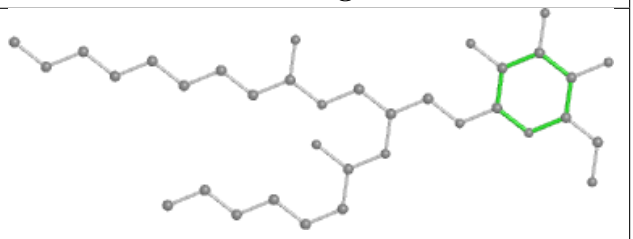


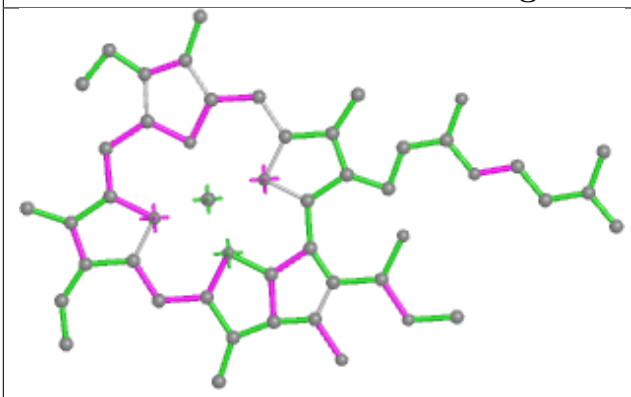
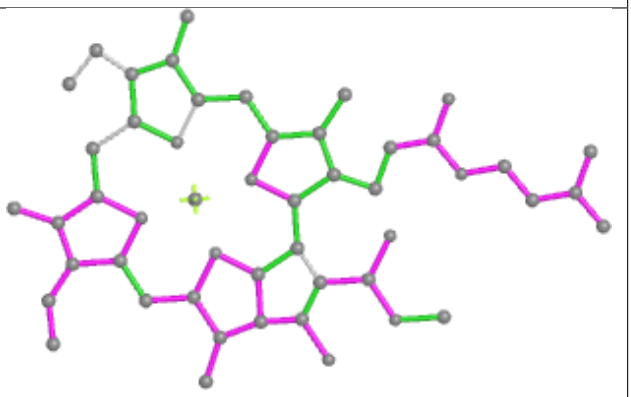
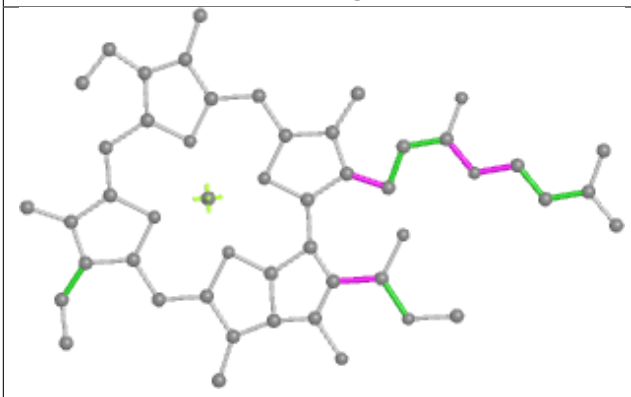
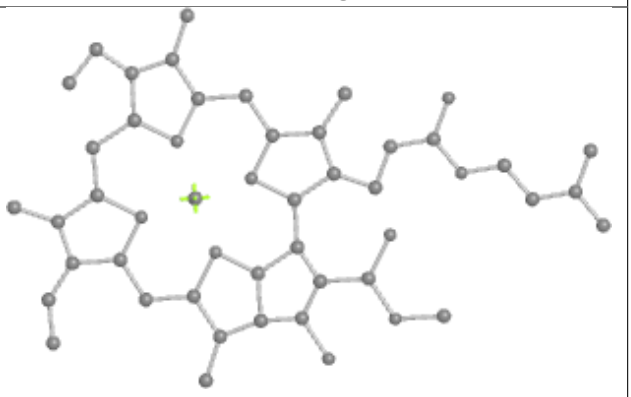
Bond angles



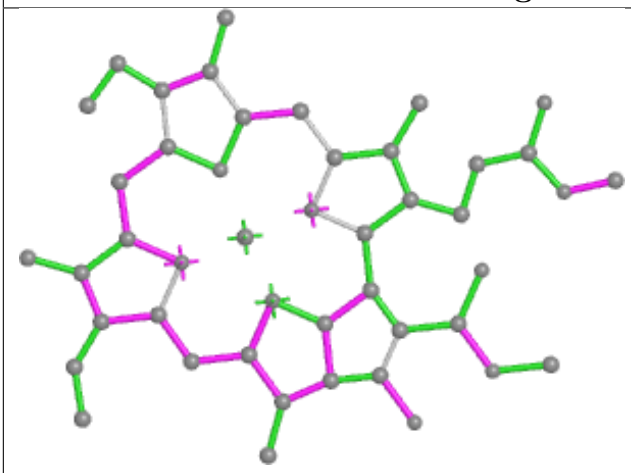
Torsions



Rings

Ligand CLA 4 4009	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA A 1130



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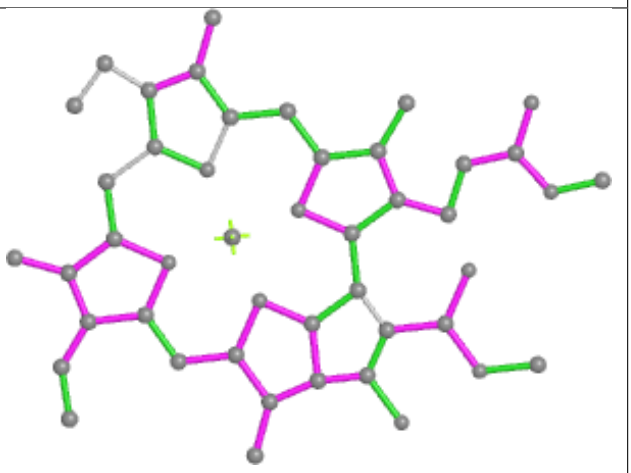
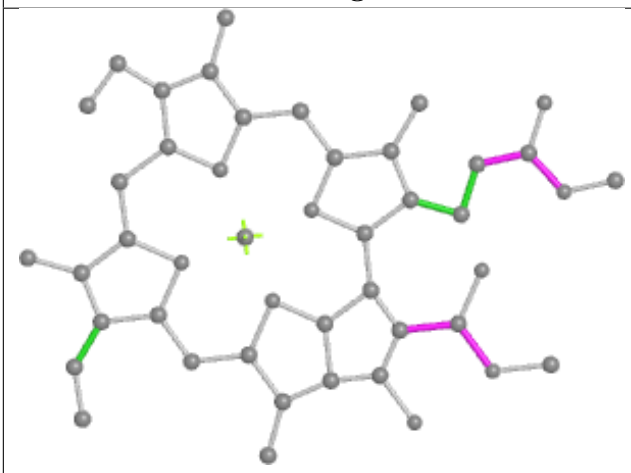


Bond angles



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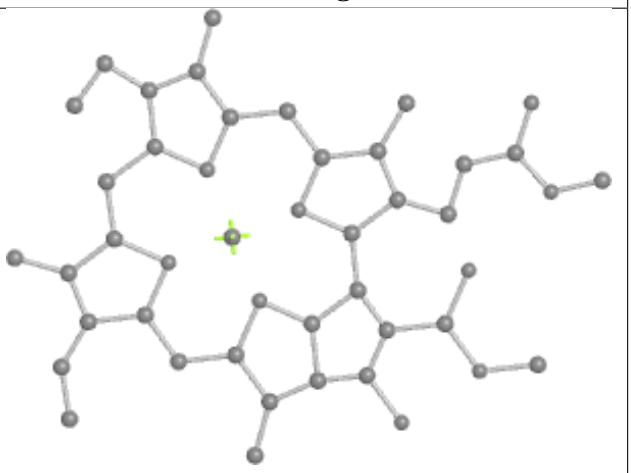
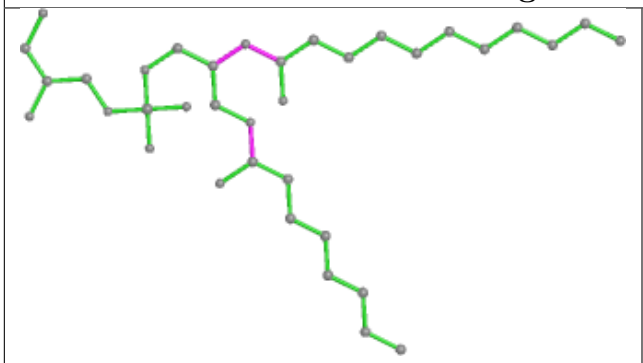


Rings

Ligand LHG 2 2801



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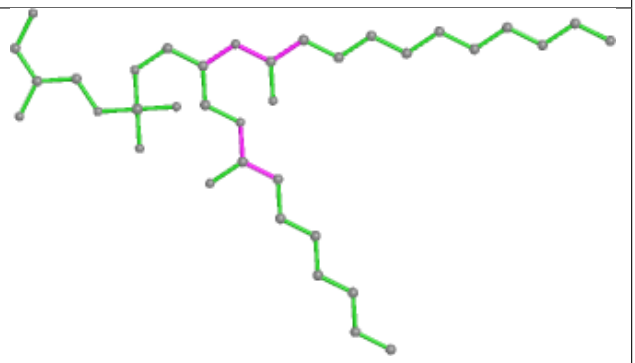
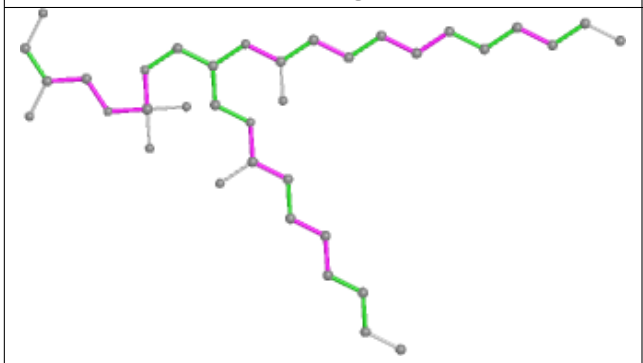


Bond angles



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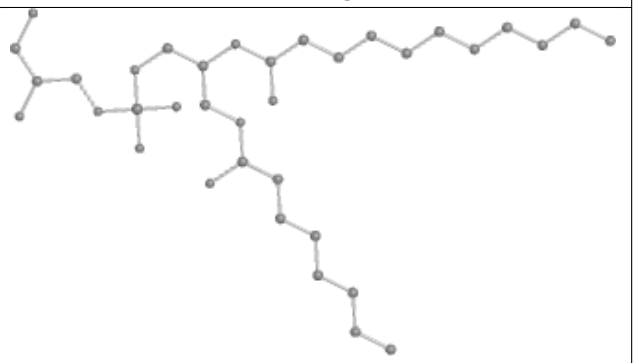
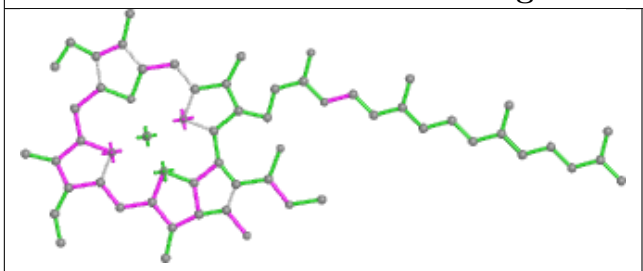


Rings

Ligand CLA B 1203



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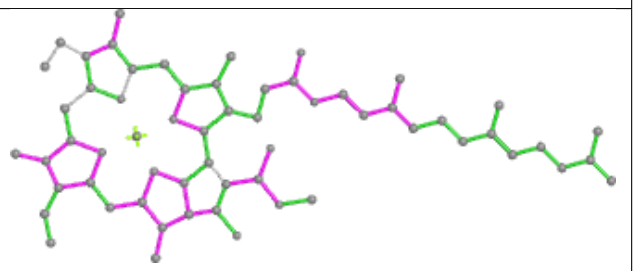
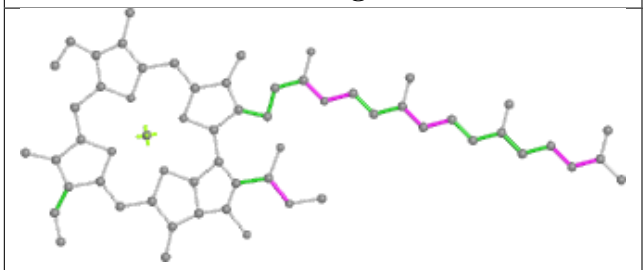


Bond angles



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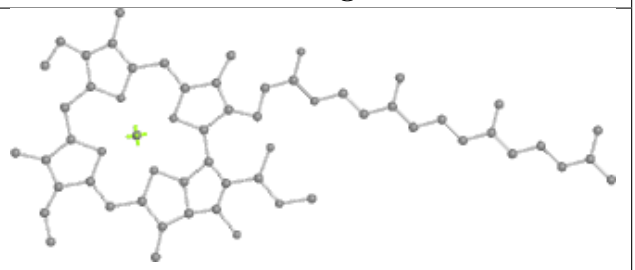
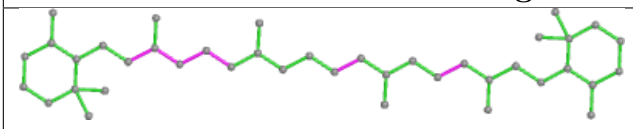


Rings

Ligand BCR F 6014



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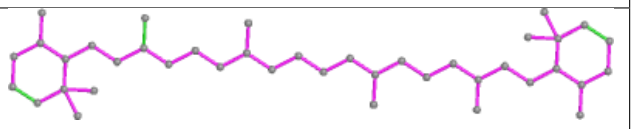
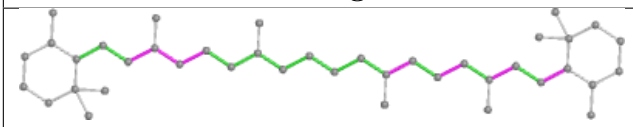


Bond angles



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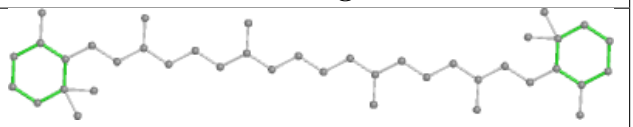
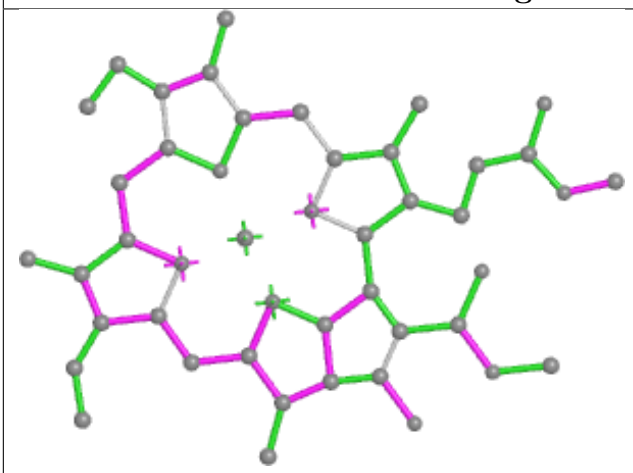


Rings

Ligand CLA A 1108



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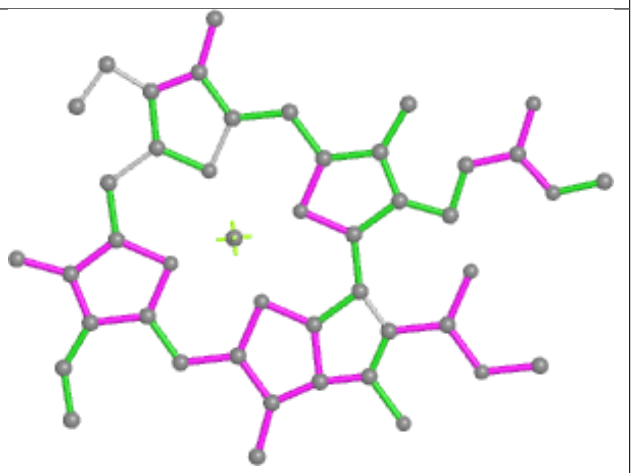

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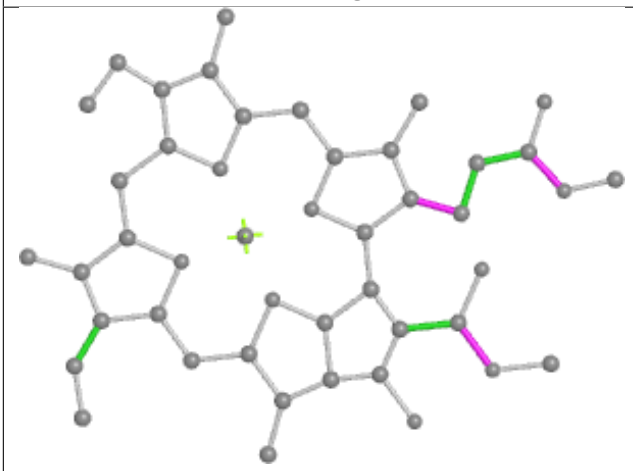

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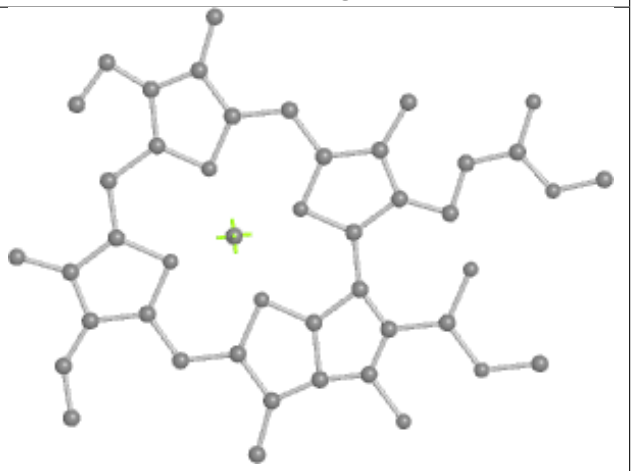
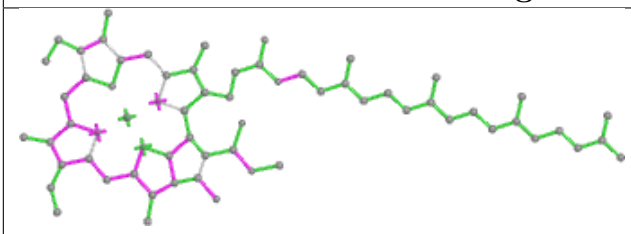
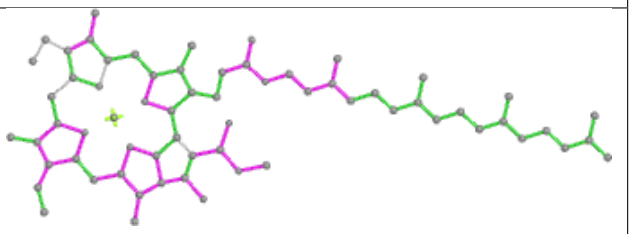
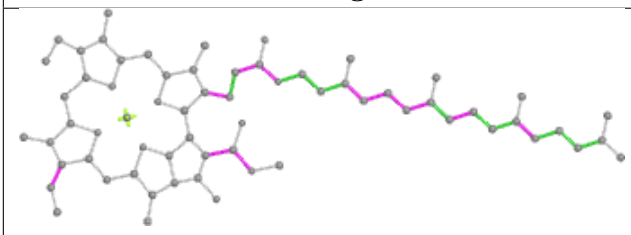
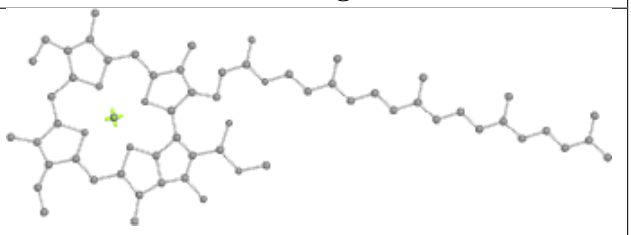
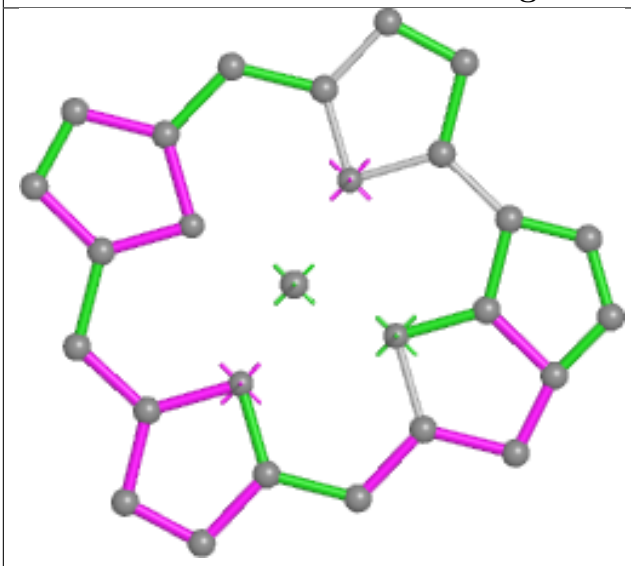


Rings

Ligand CLA B 1210	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA 2 2001



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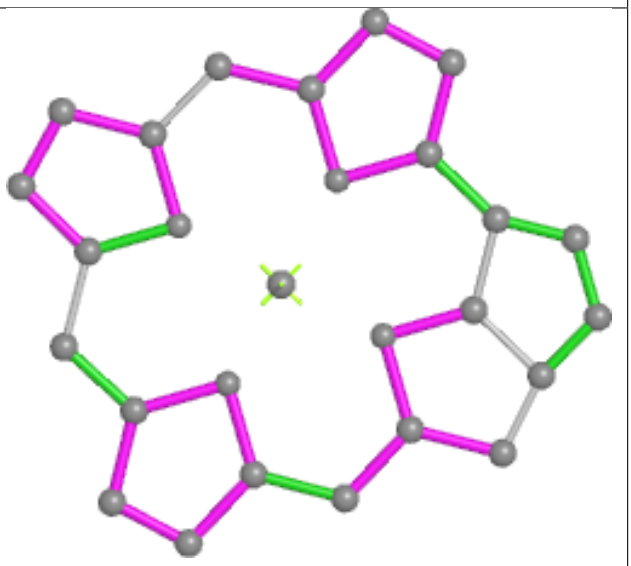
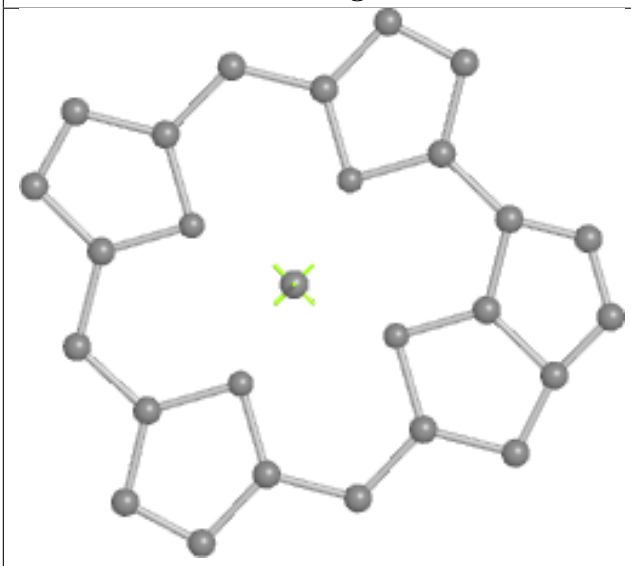
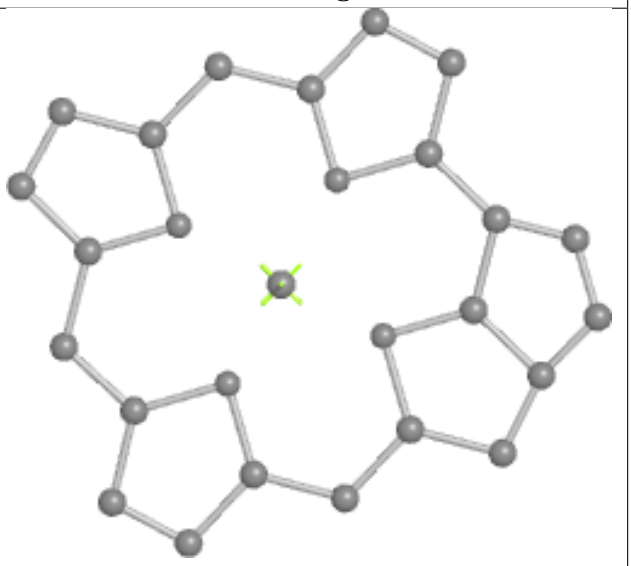


Bond angles

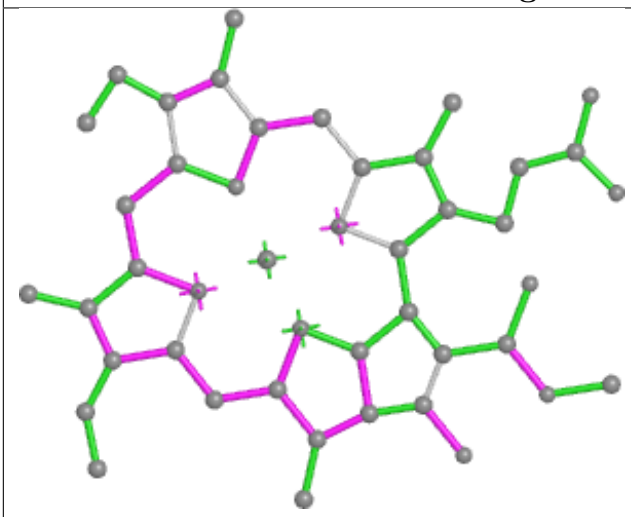


Torsions



Rings

Ligand CLA 4 4014



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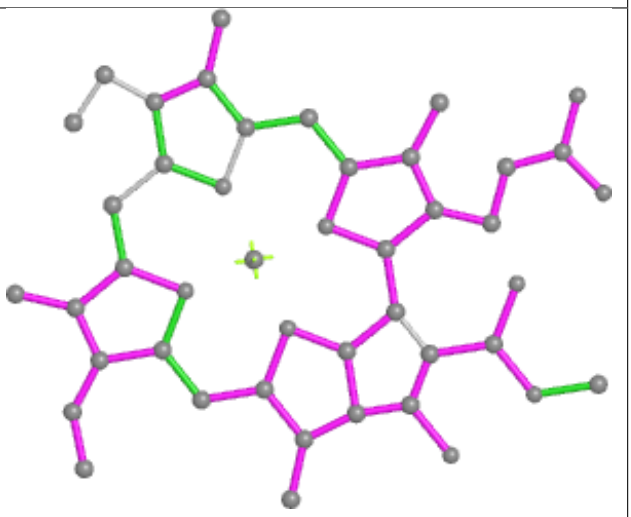

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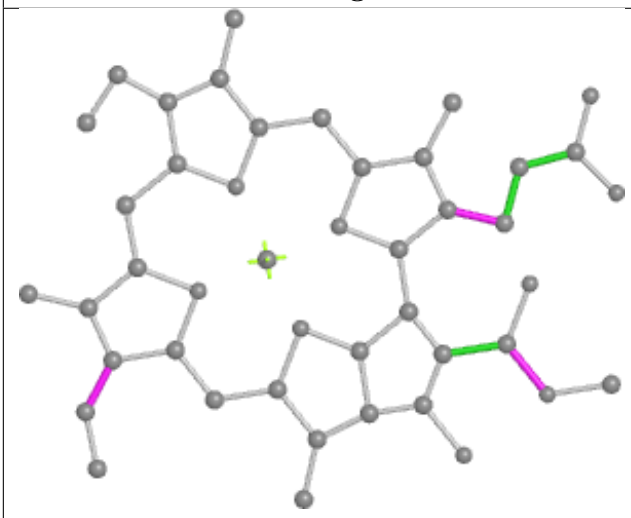

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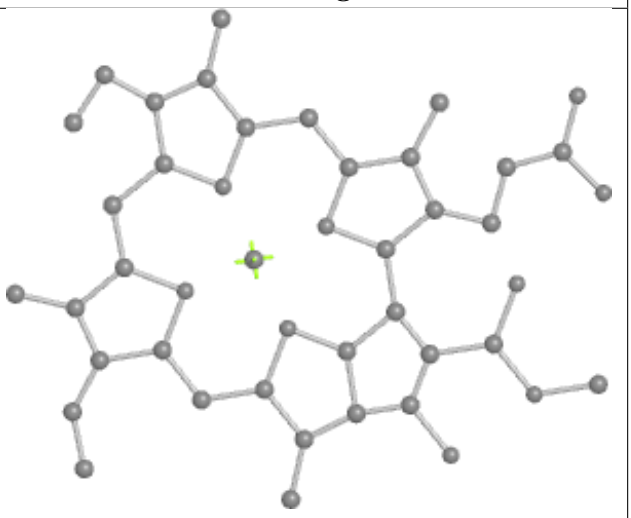
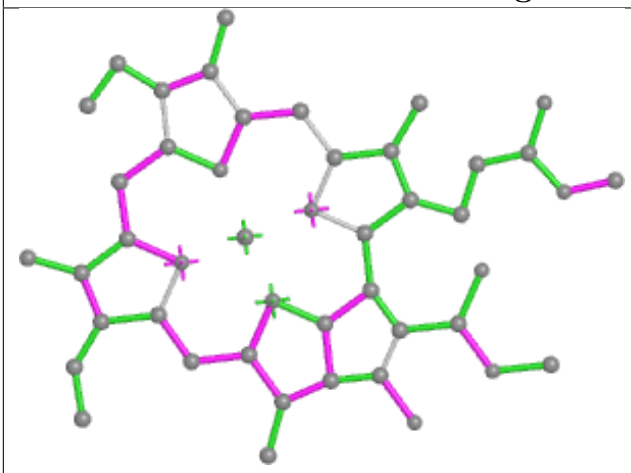


Rings

Ligand CLA A 1133



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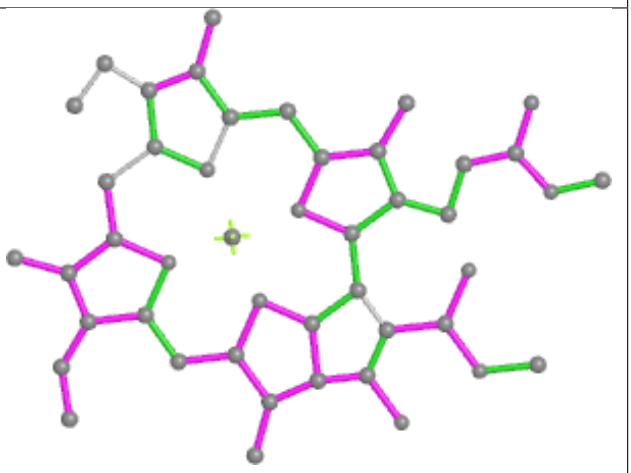
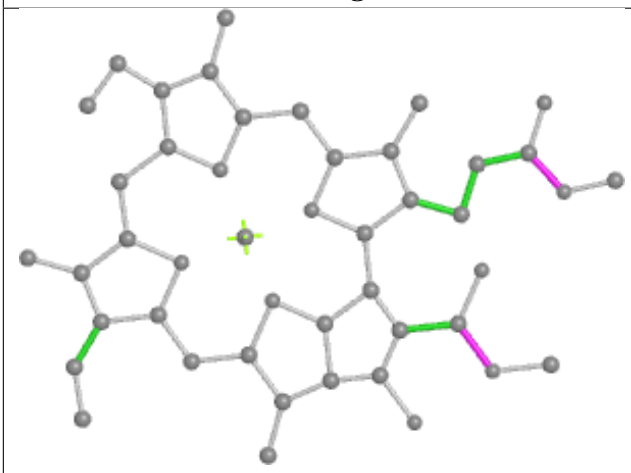


Bond angles



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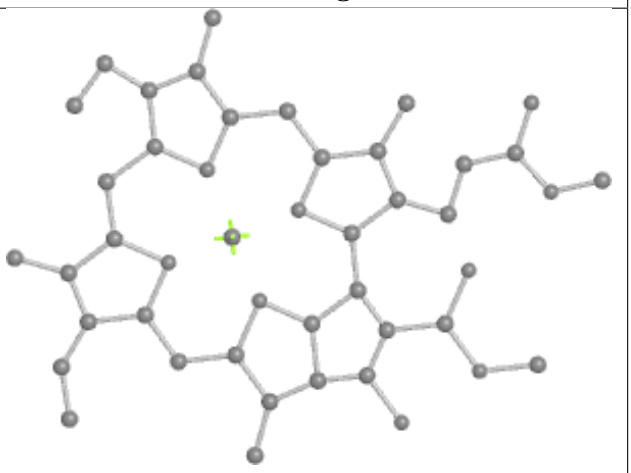
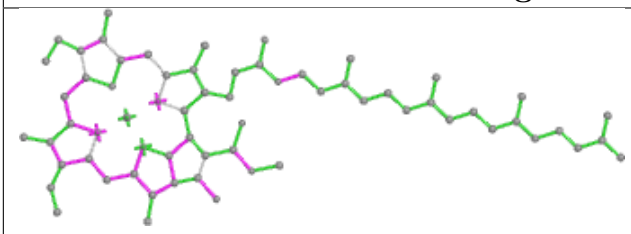


Rings

Ligand CLA A 1104



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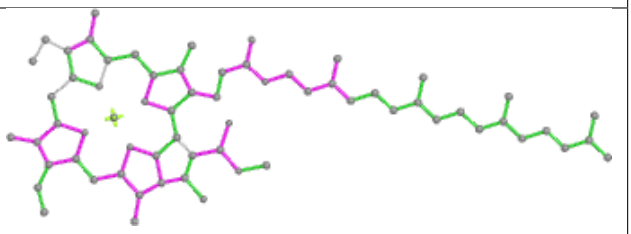
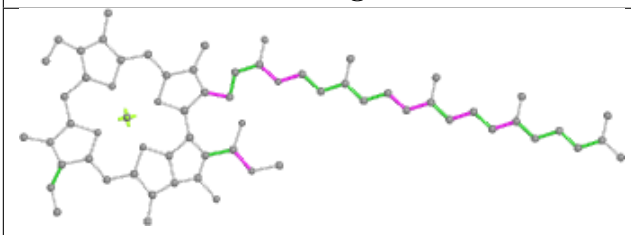


Bond angles



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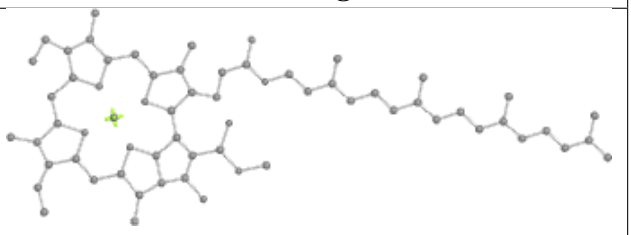
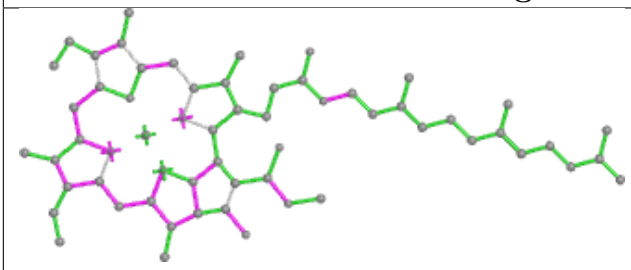


Rings

Ligand CLA A 1111



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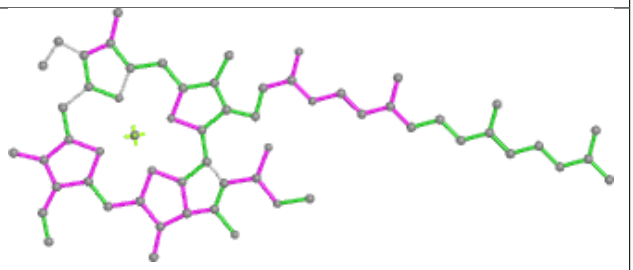
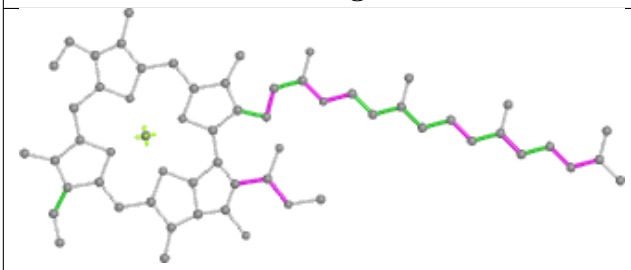


Bond angles



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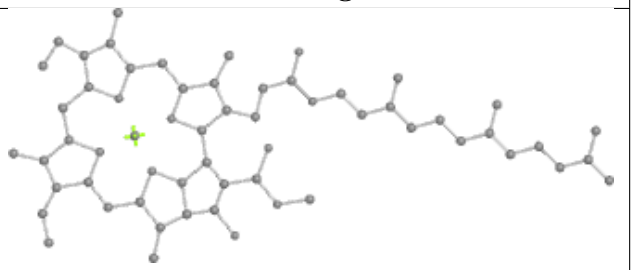
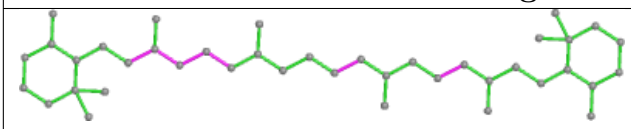


Rings

Ligand BCR I 6018



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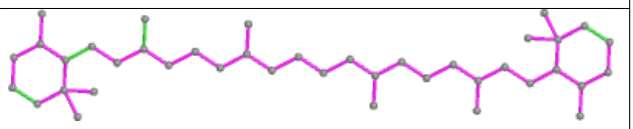
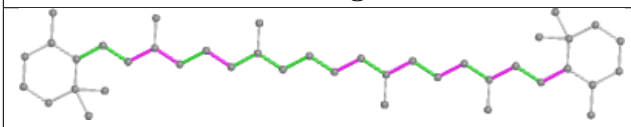
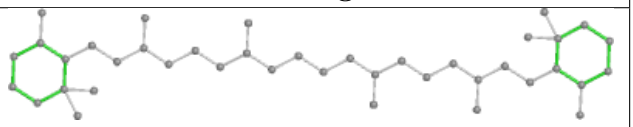


Bond angles

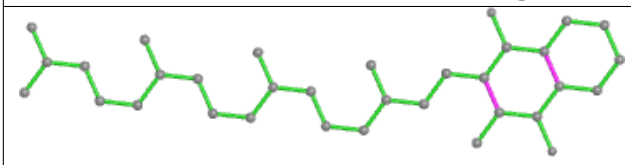


Torsions

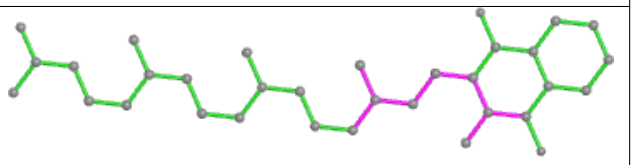


Rings

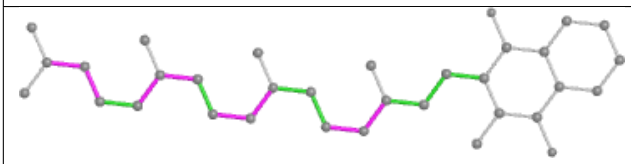
Ligand PQN B 5002



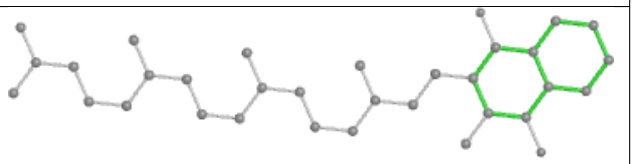
Bond lengths



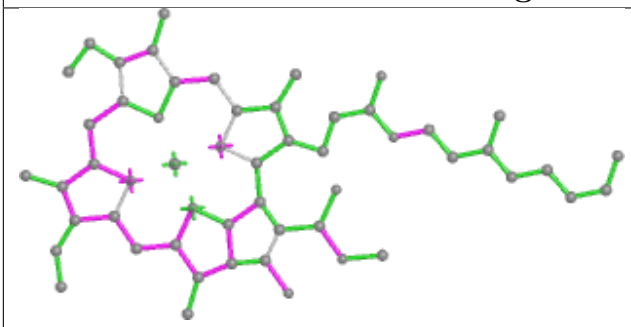
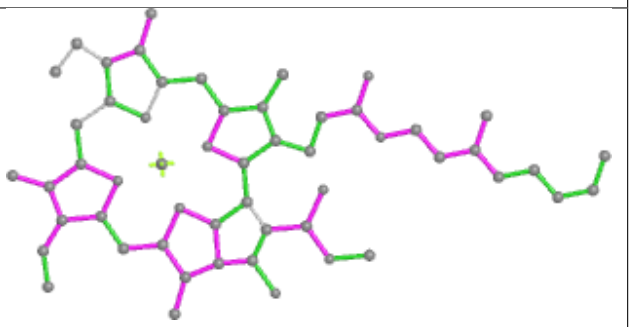
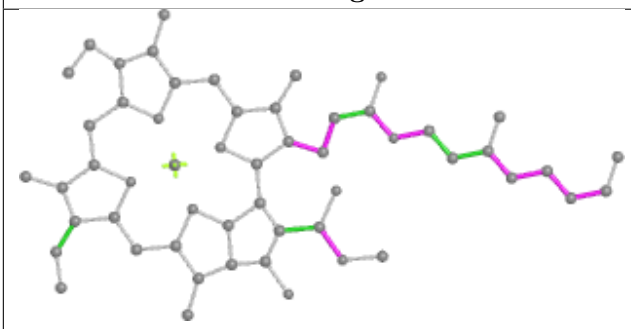
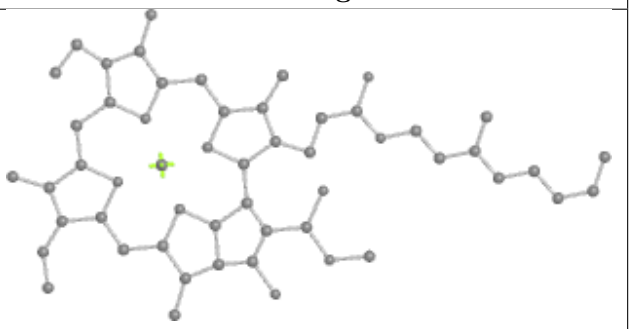
Bond angles

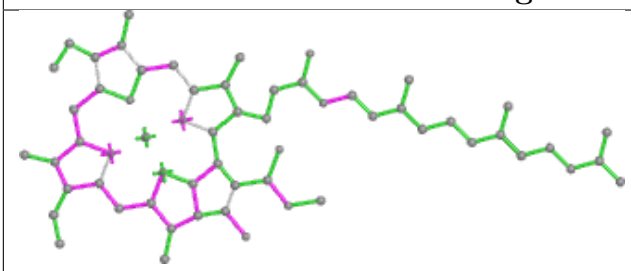
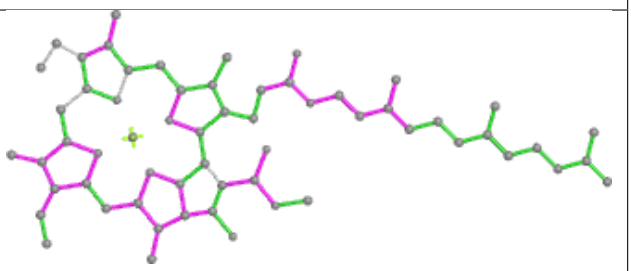
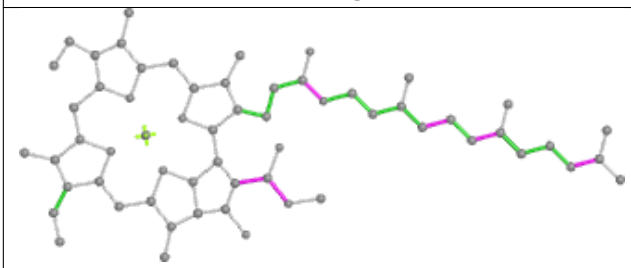
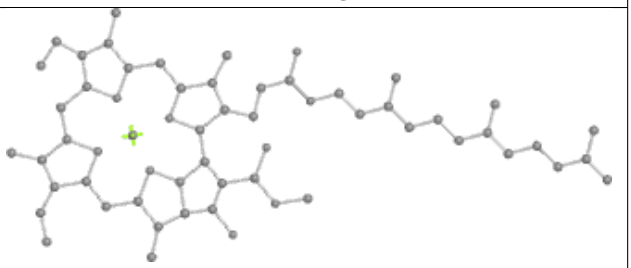


Torsions

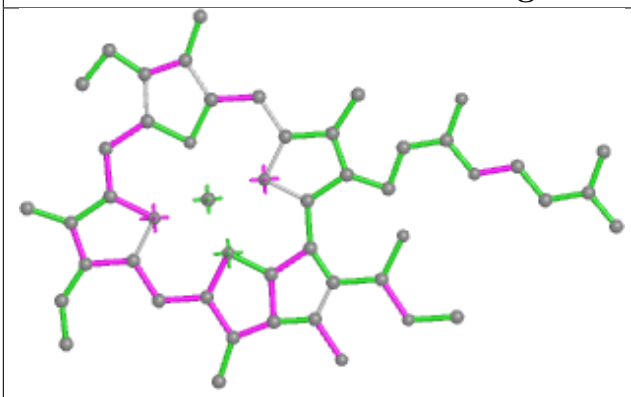


Rings

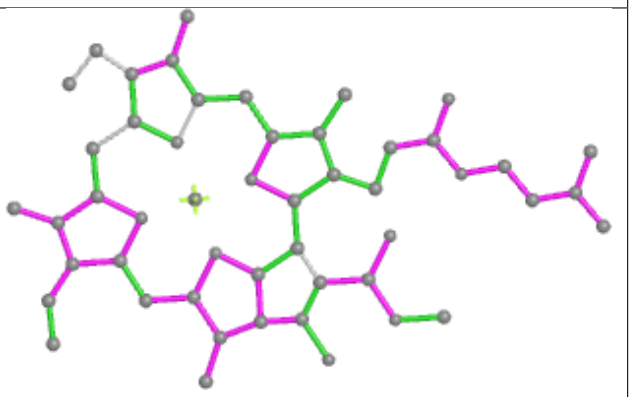
Ligand CLA A 1116	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA B 1234	
 Bond lengths	 Bond angles
 Torsions	 Rings

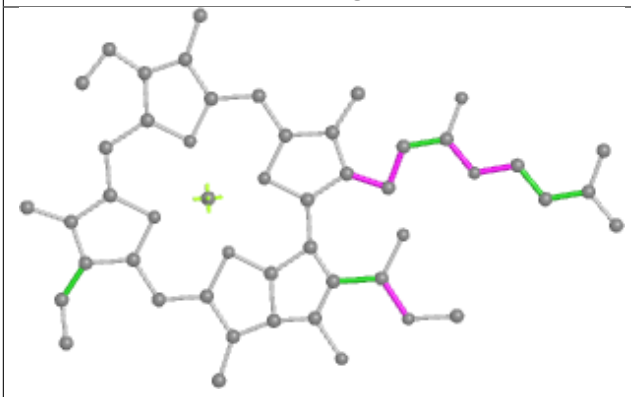
Ligand CLA L 1503



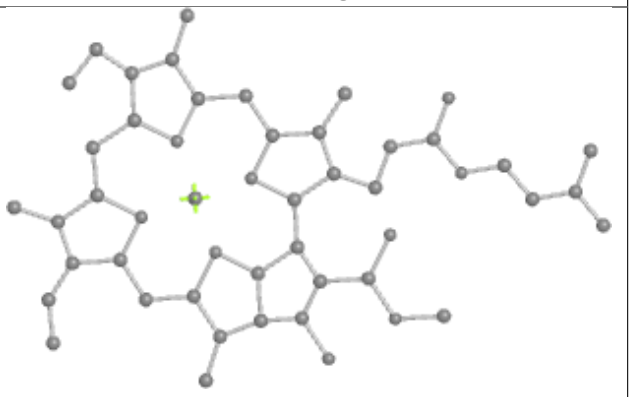
Bond lengths



Bond angles

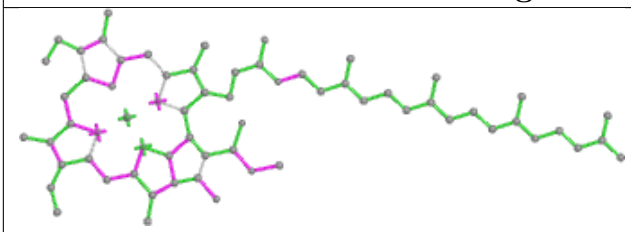


Torsions



Rings

Ligand CLA B 1226



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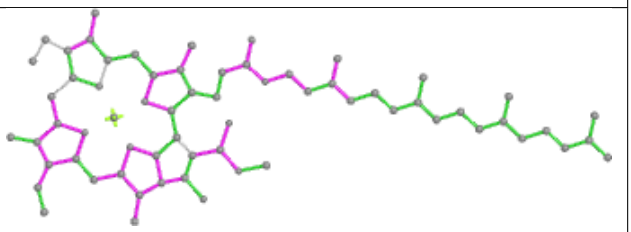
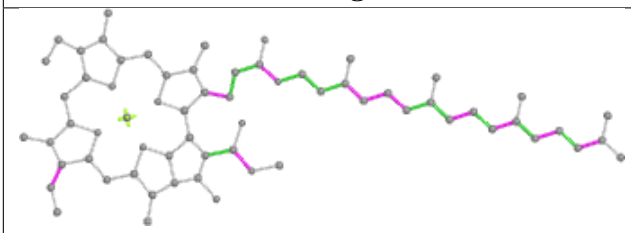


Bond angles



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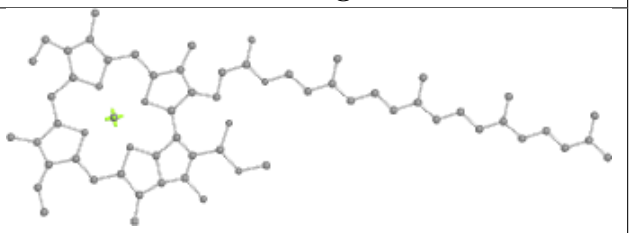
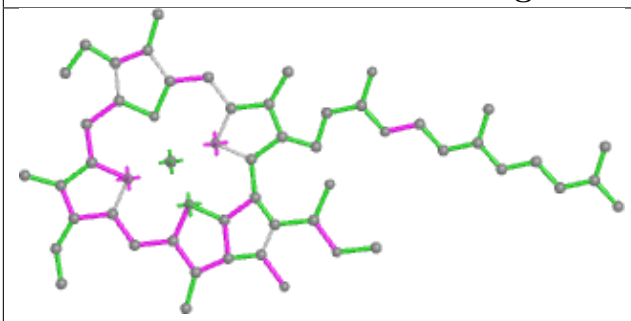
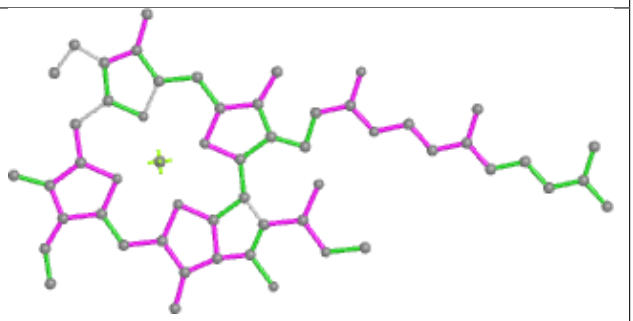


Rings

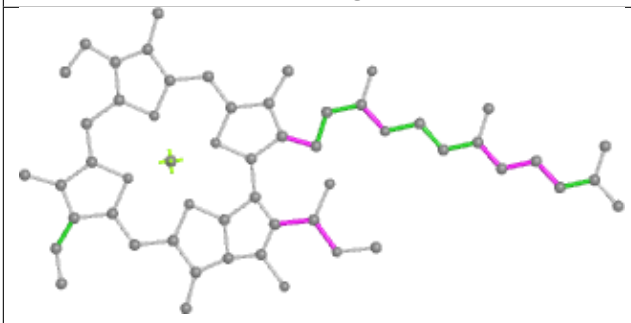
Ligand CLA A 1110



Bond lengths



Bond angles



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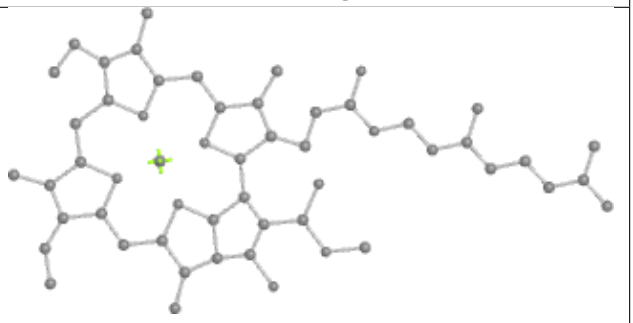
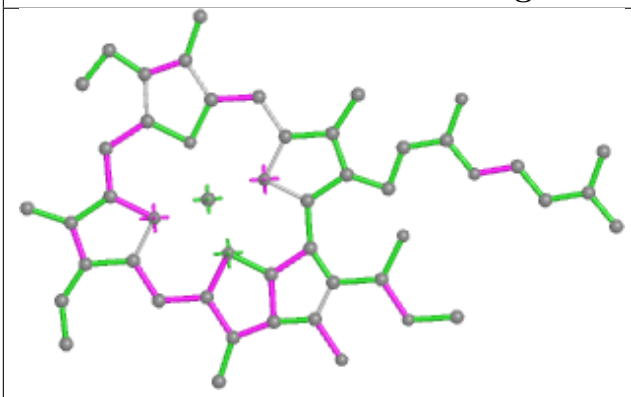


Rings

Ligand CLA A 1129



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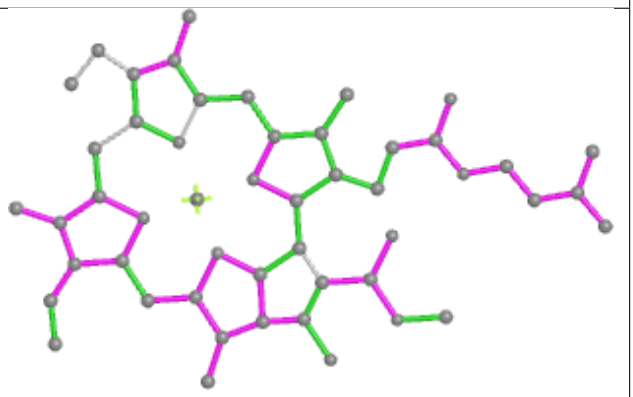
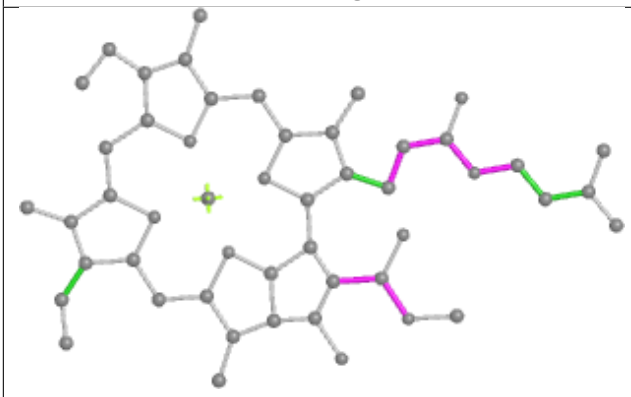


Bond angles



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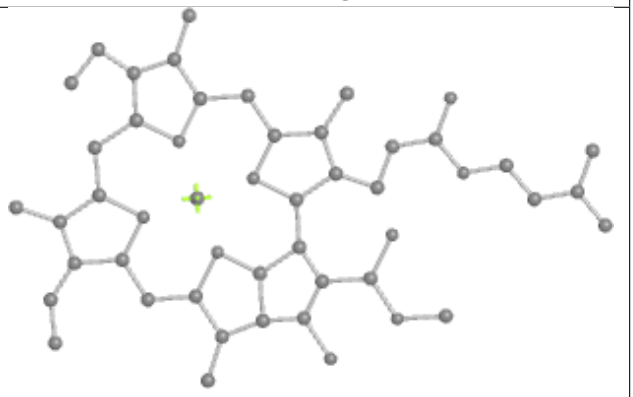
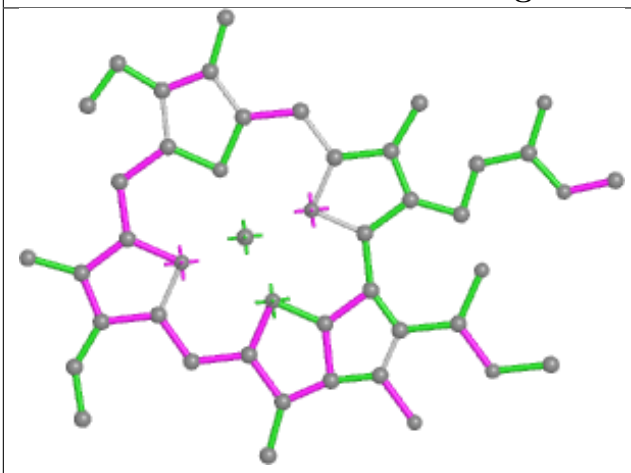
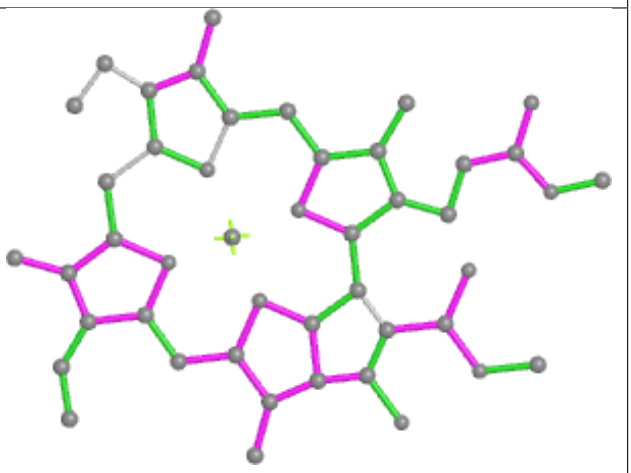


Rings

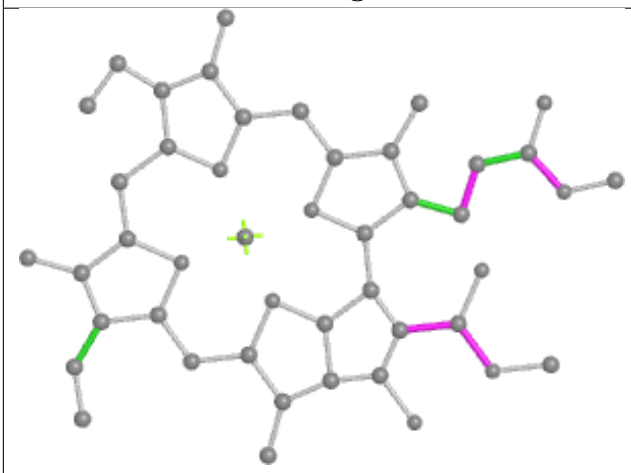
Ligand CLA A 1121



Bond lengths



Bond angles



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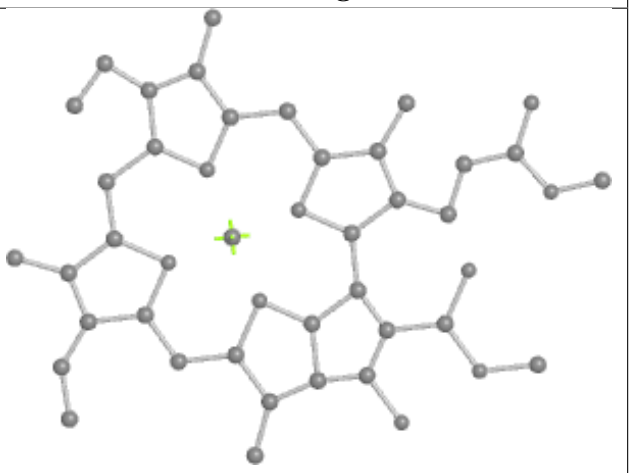
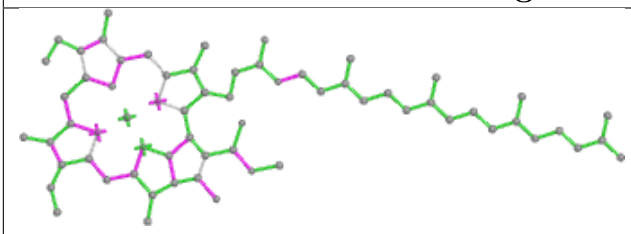
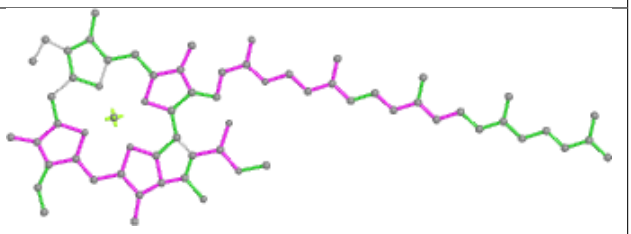


Rings

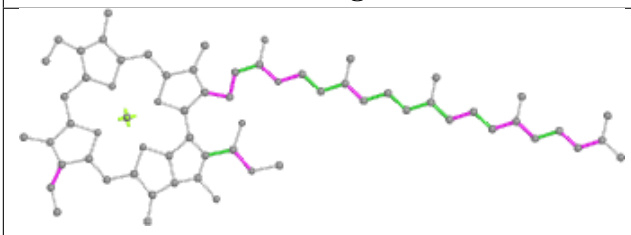
Ligand CLA B 1239



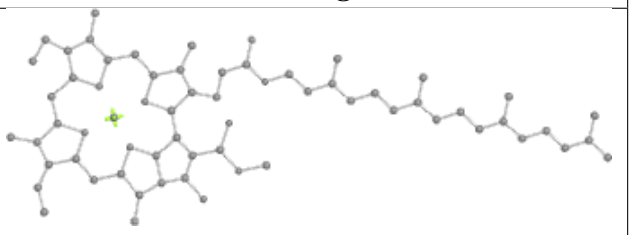
Bond lengths



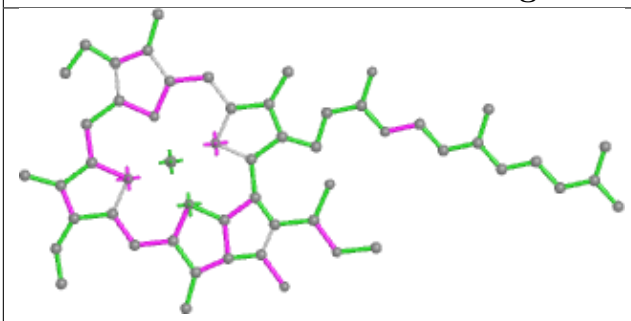
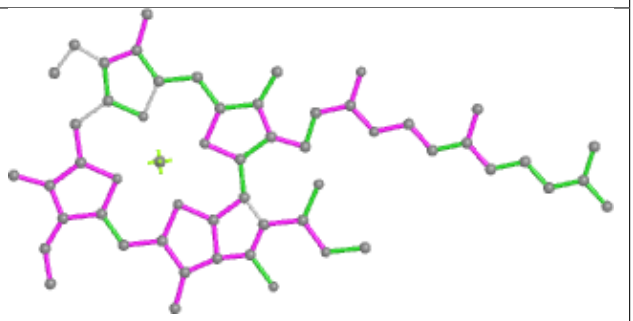
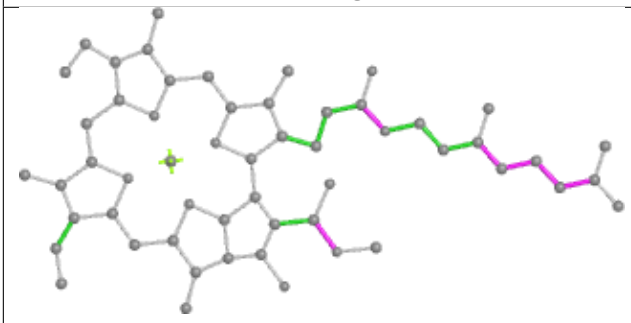
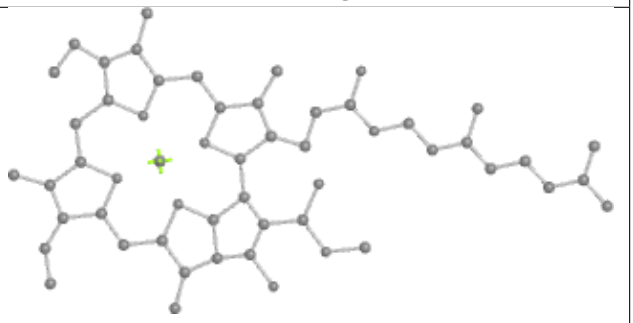
Bond angles

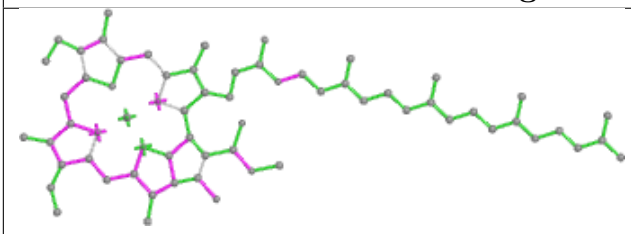
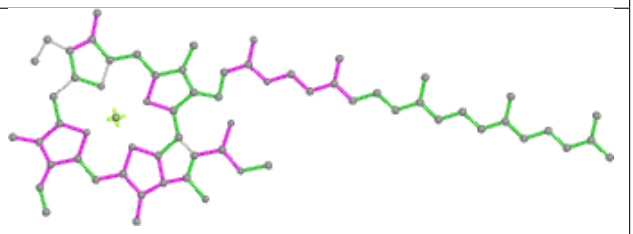
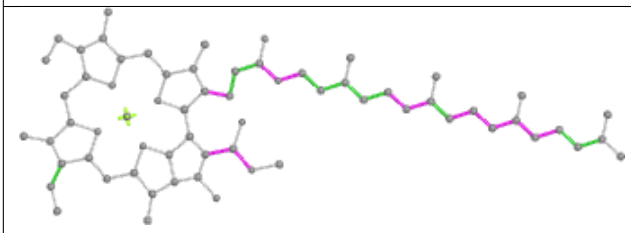
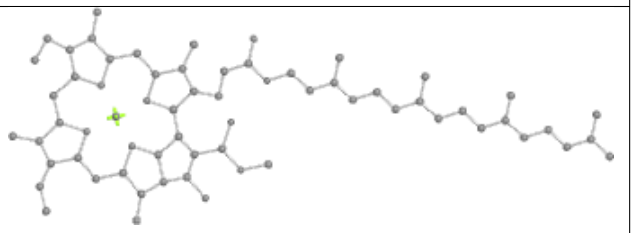


Torsions

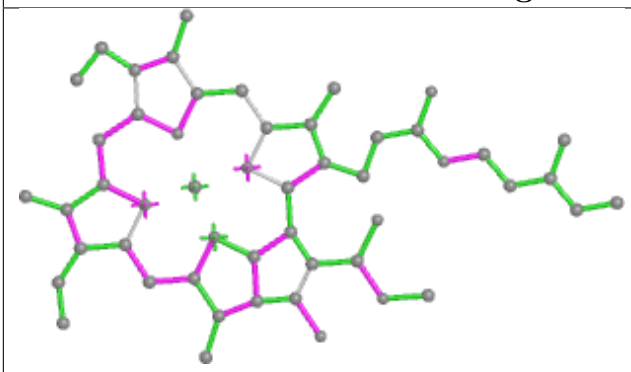


Rings

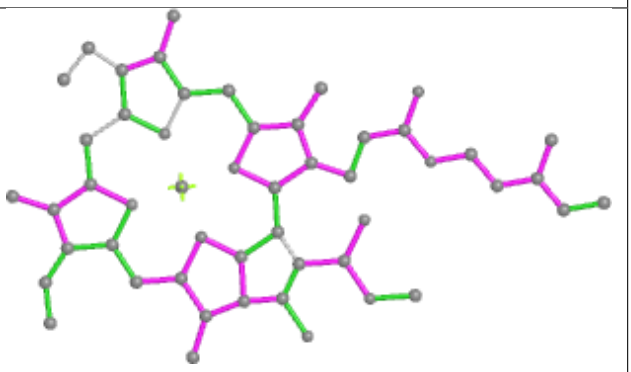
Ligand CLA 1 1001	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA 3 3001	
 Bond lengths	 Bond angles
 Torsions	 Rings

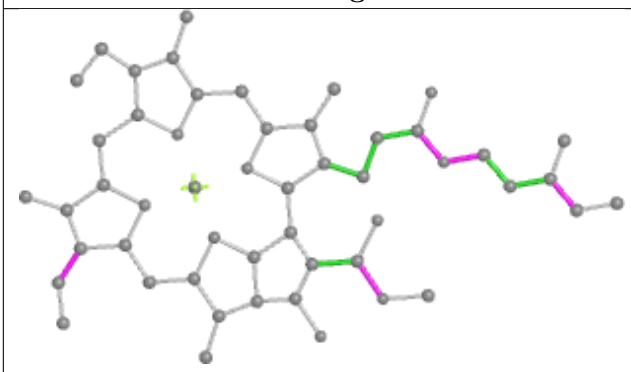
Ligand CLA B 1228



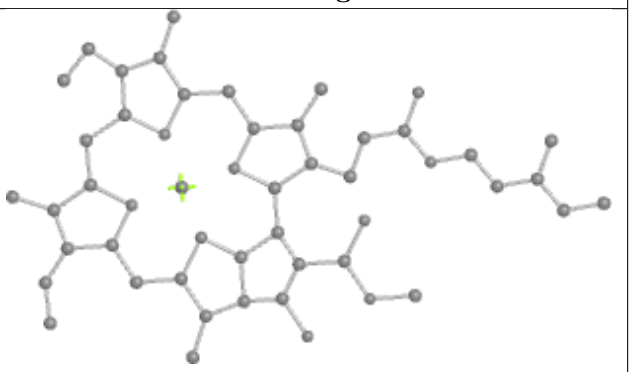
Bond lengths



Bond angles

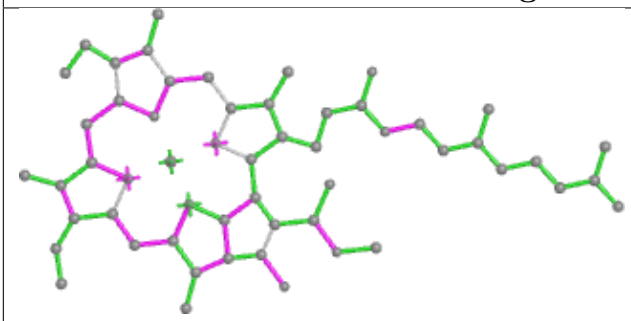


Torsions



Rings

Ligand CLA 2 2007



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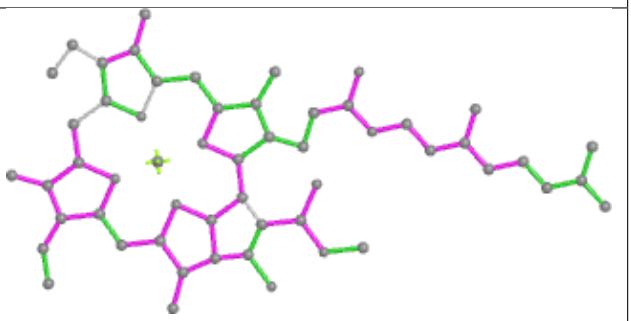
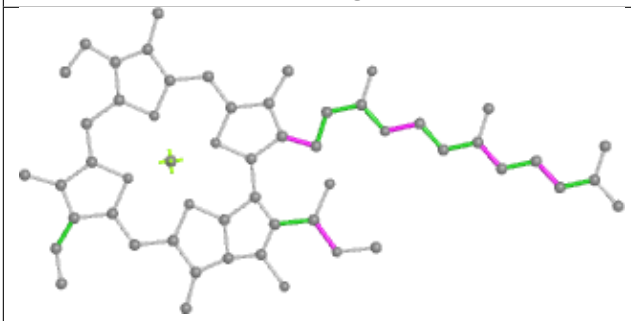


Bond angles



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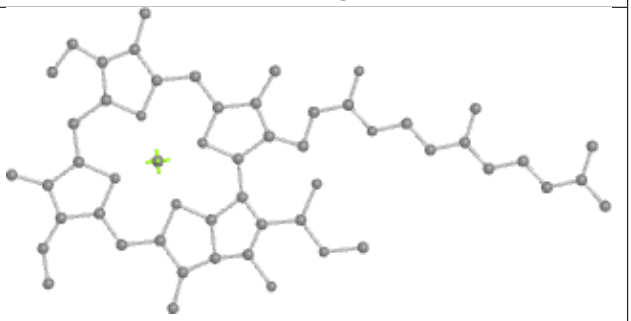
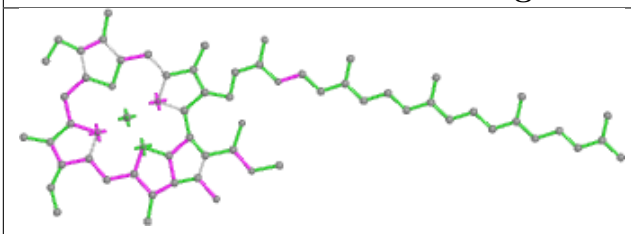
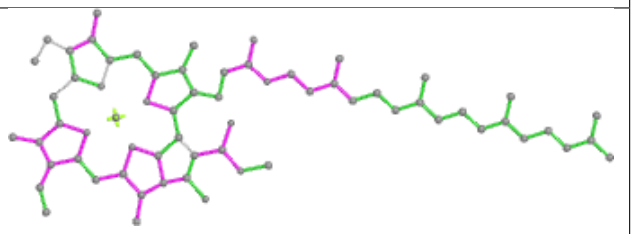


Rings

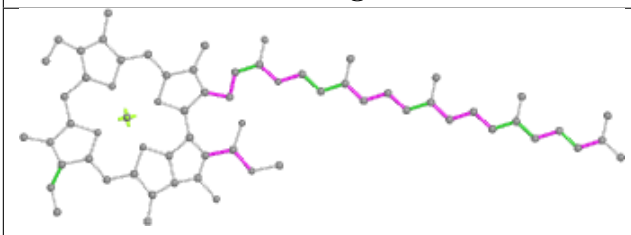
Ligand CLA A 1119



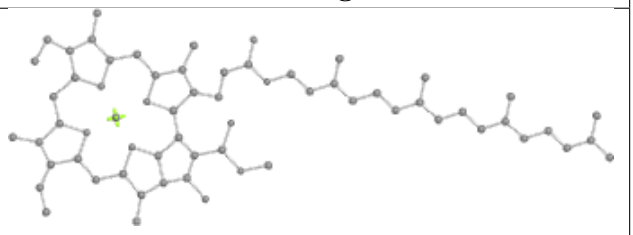
Bond lengths



Bond angles

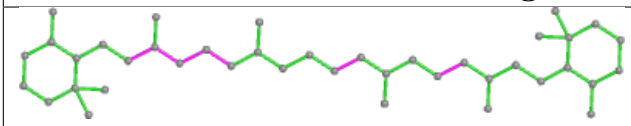


Torsions



Rings

Ligand BCR I 6020



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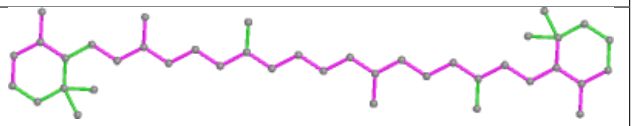
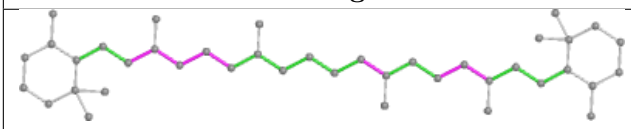


Bond angles



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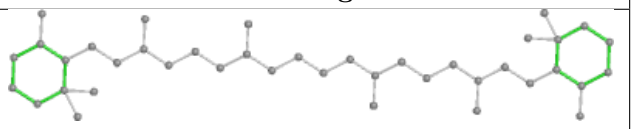
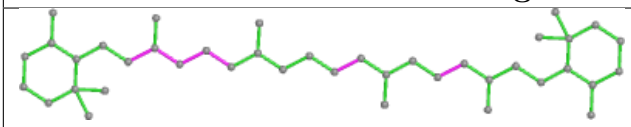


Rings

Ligand BCR B 6006



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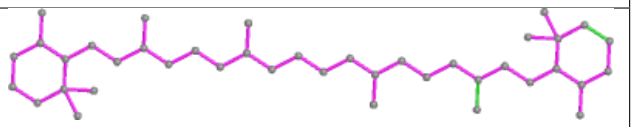

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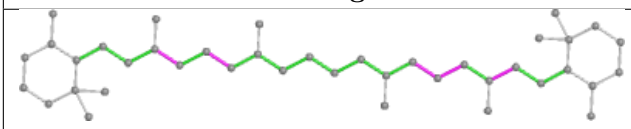
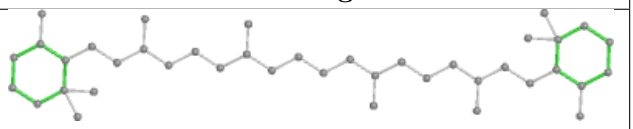
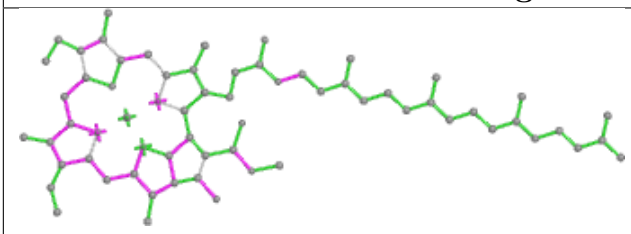
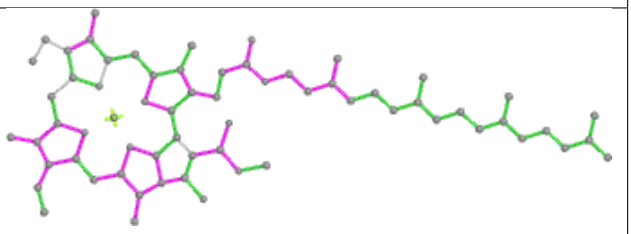
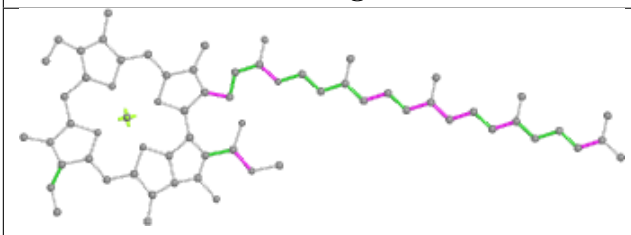
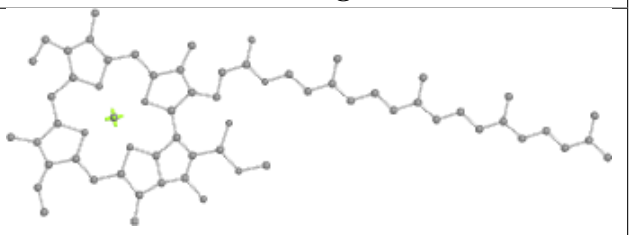


Torsions



Rings

Ligand CLA B 1222	
 Bond lengths	 Bond angles
 Torsions	 Rings

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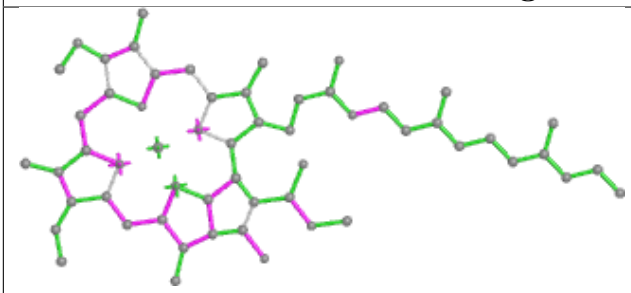
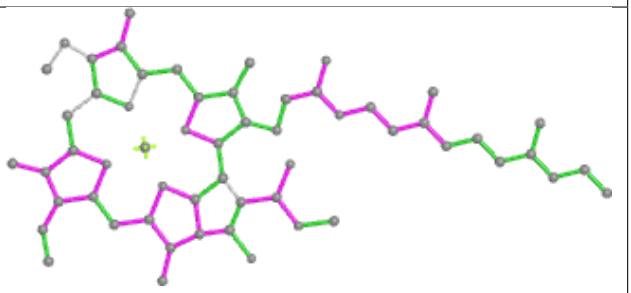
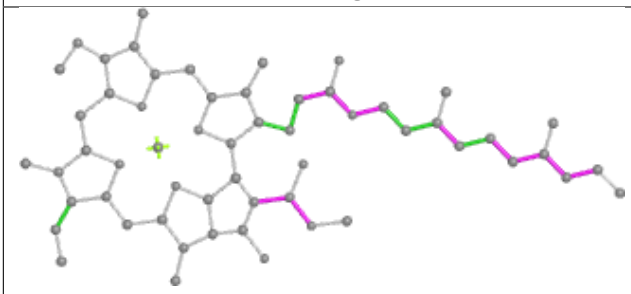
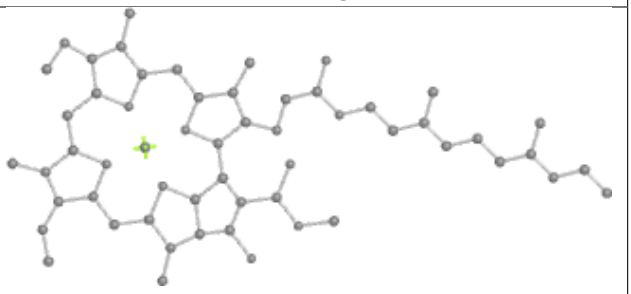
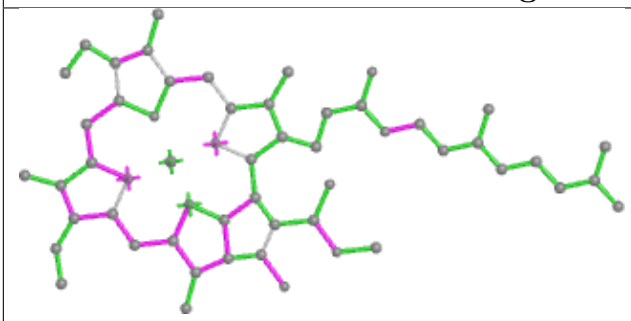
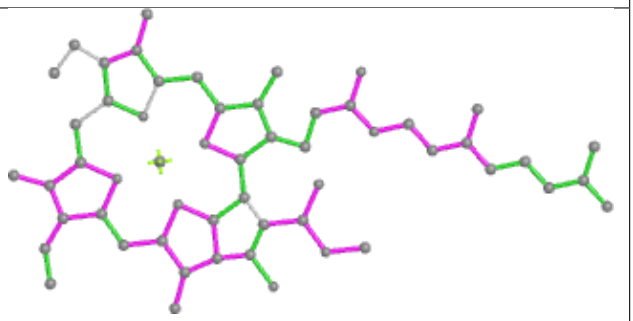
 Bond lengths	 Bond angles
 Torsions	 Rings

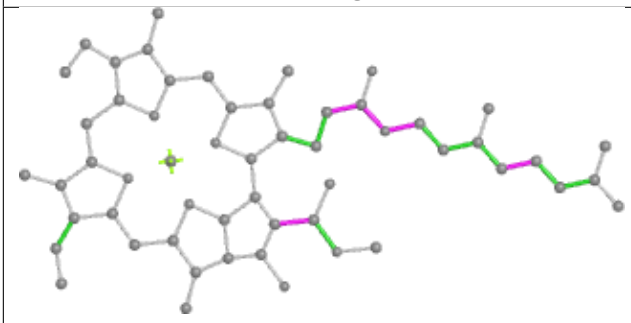
Ligand CLA 3 3002



Bond lengths



Bond angles



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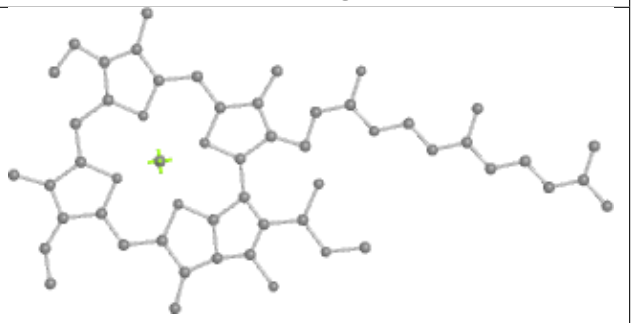
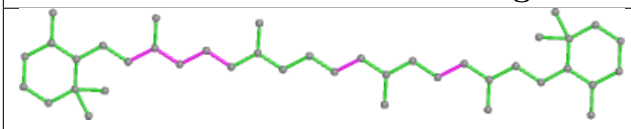


Rings

Ligand BCR A 6003



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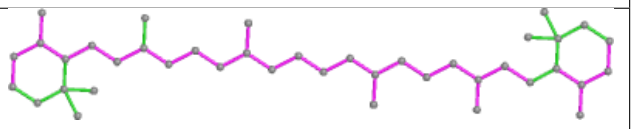

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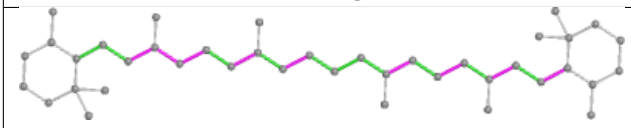
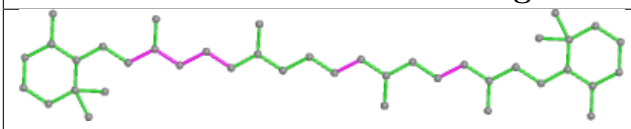


Torsions

Rings

Ligand BCR B 6005



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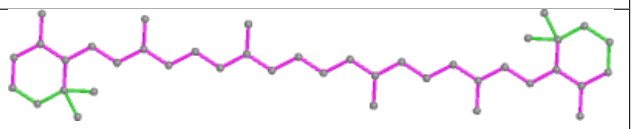
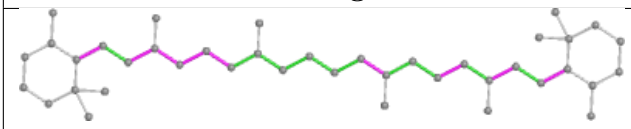


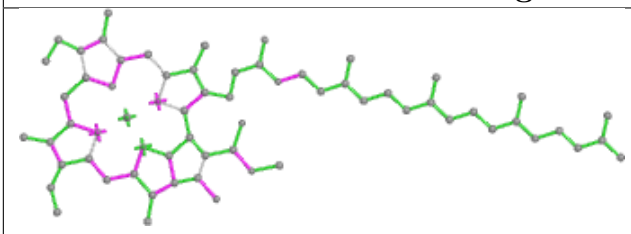
Bond angles



Torsions

Rings

Ligand CLA B 1240



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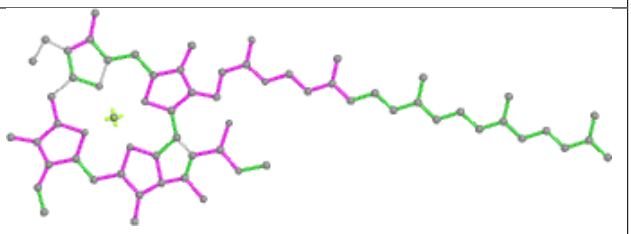
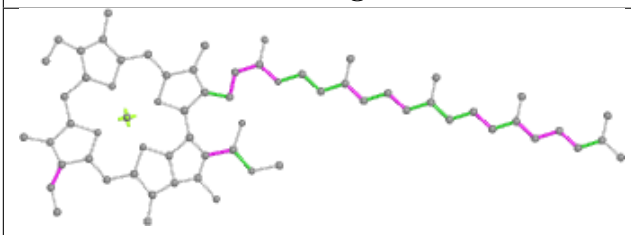
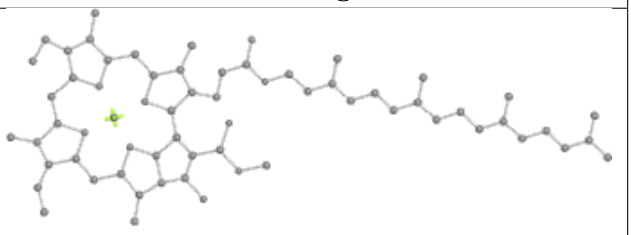


Bond angles

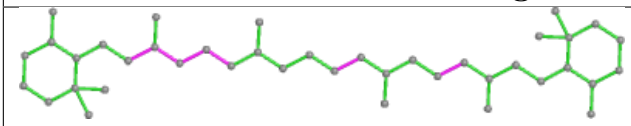


Torsions



Rings

Ligand BCR G 2011



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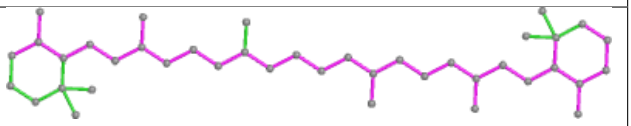
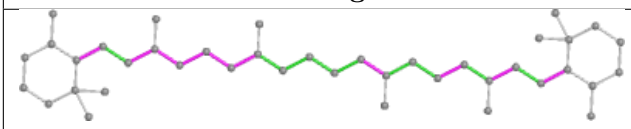


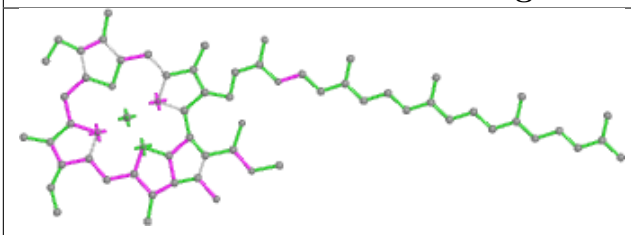
Bond angles



Torsions

Rings

Ligand CLA B 1207



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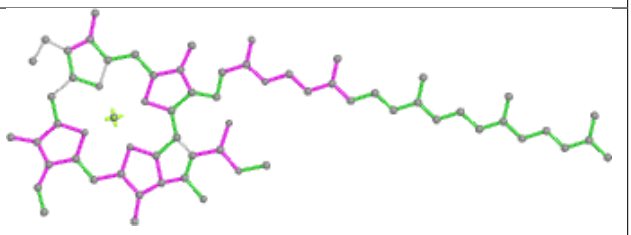
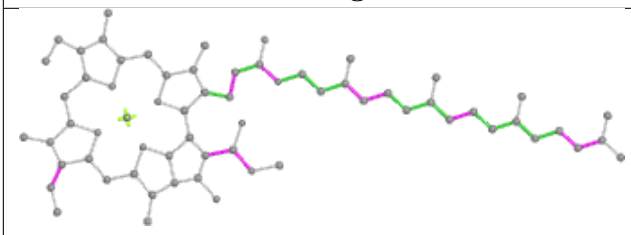
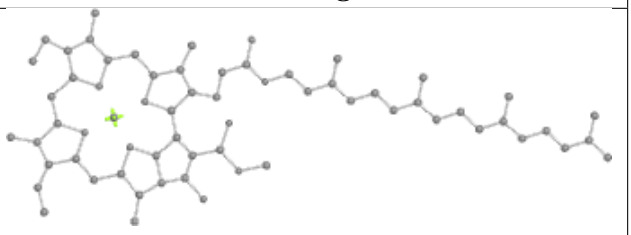


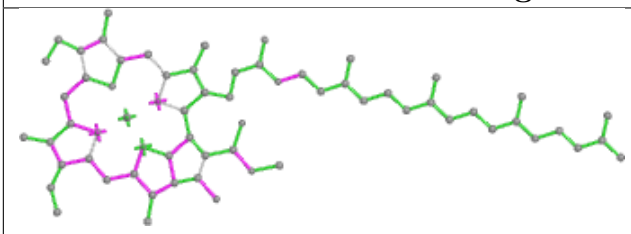
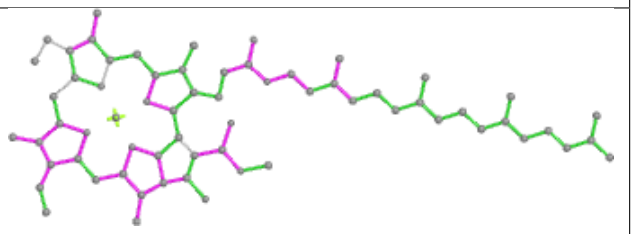
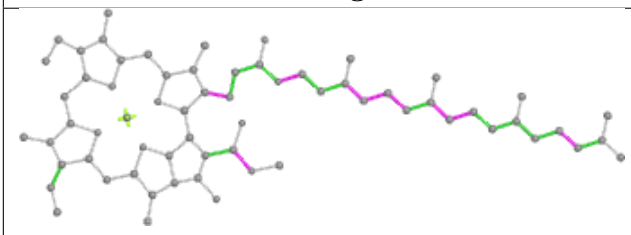
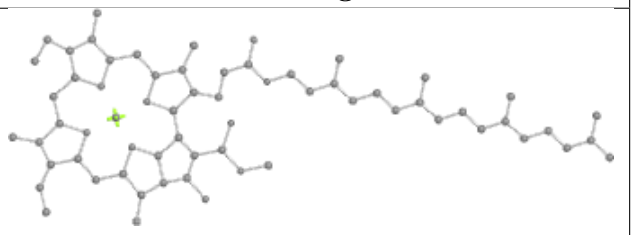
Bond angles

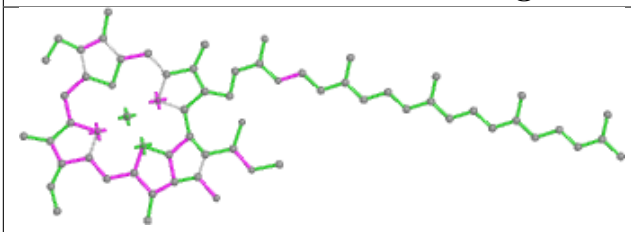
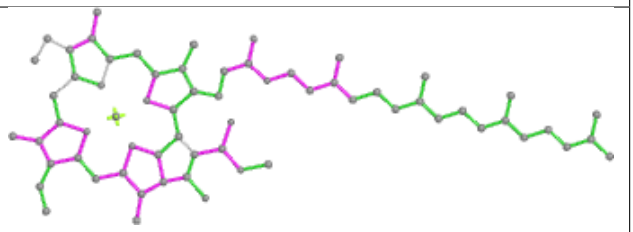
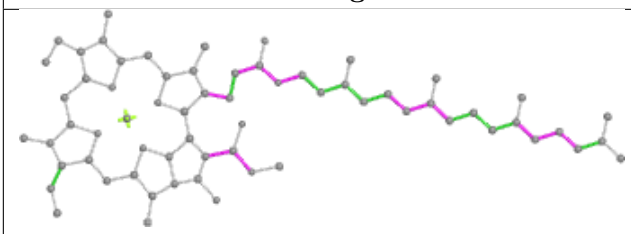
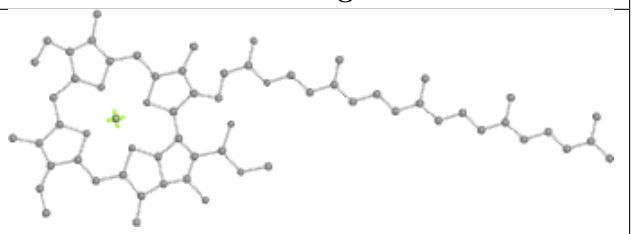


Torsions

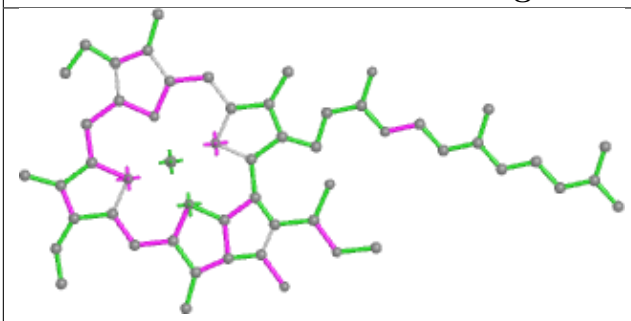


Rings

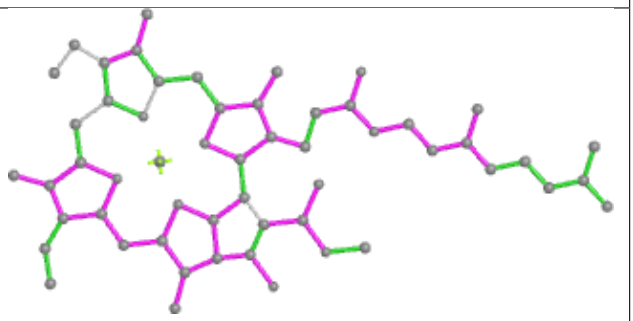
Ligand CLA A 1140	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA B 1202	
 Bond lengths	 Bond angles
 Torsions	 Rings

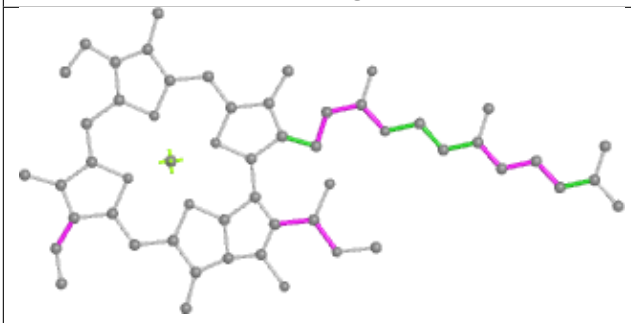
Ligand CLA G 1001



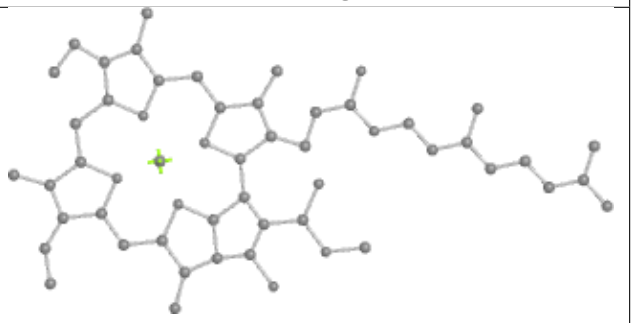
Bond lengths



Bond angles

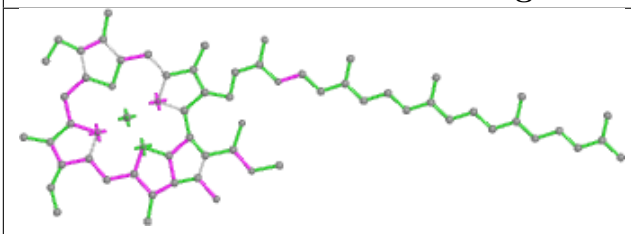


Torsions

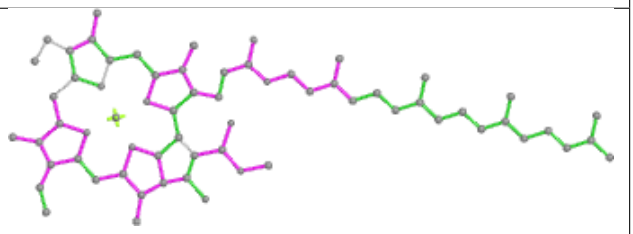


Rings

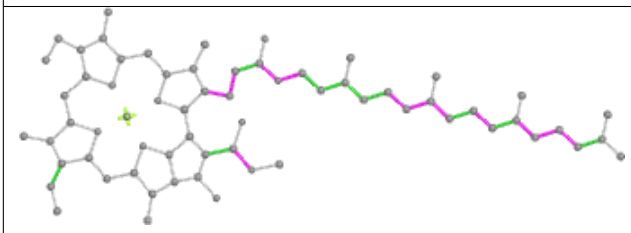
Ligand CLA B 1206



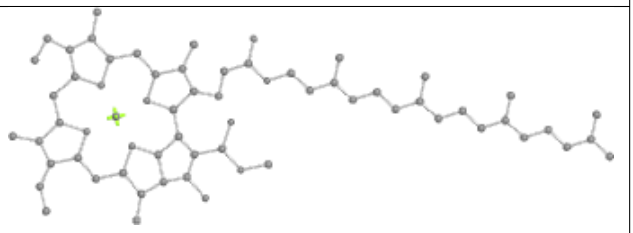
Bond lengths



Bond angles

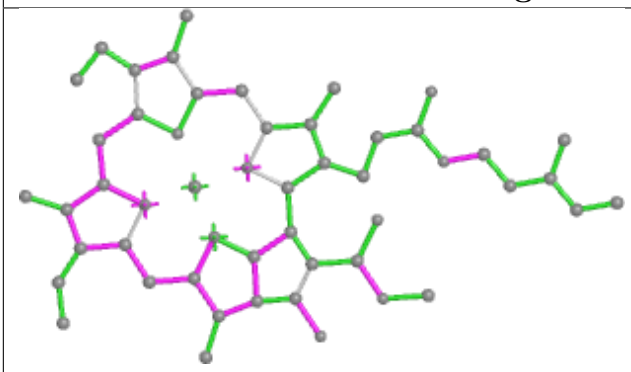


Torsions



Rings

Ligand CLA A 1105



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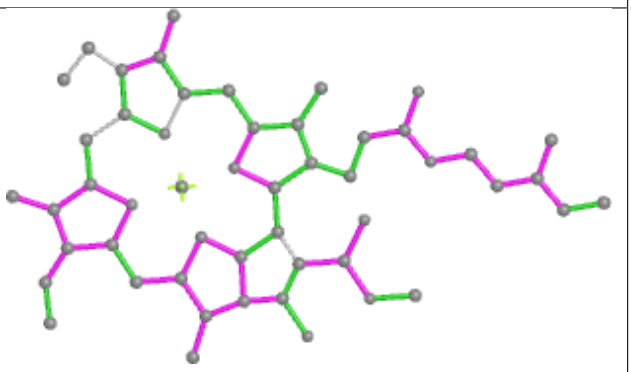
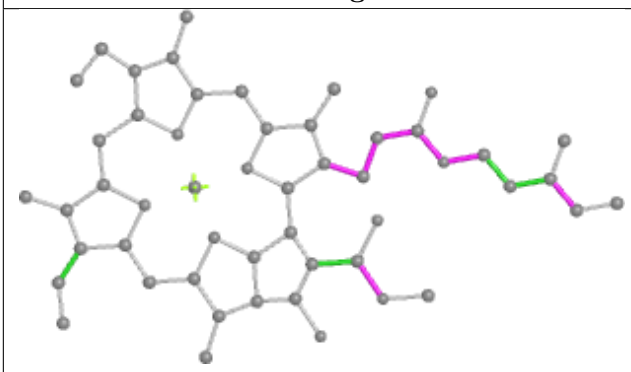


Bond angles



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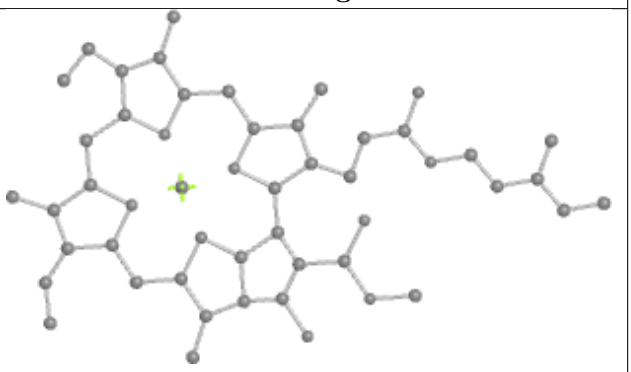
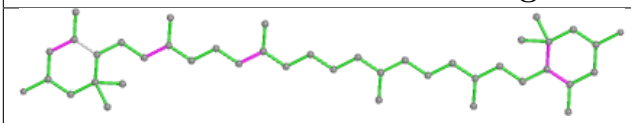


Rings

Ligand LUT 1 1502



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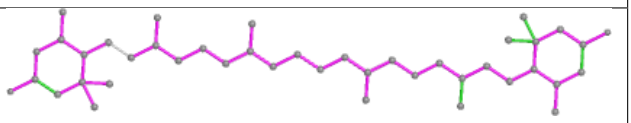
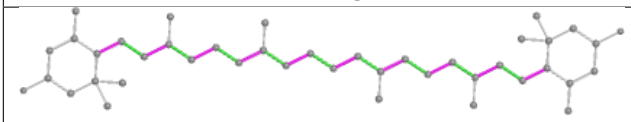


Bond angles



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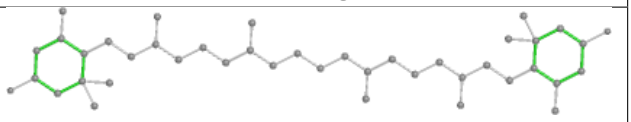
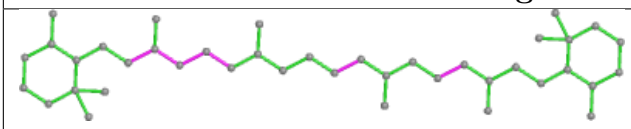


Rings

Ligand BCR L 6020



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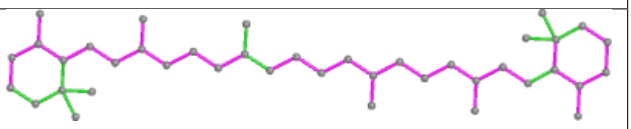
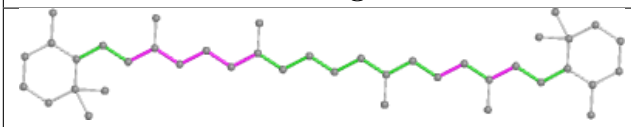
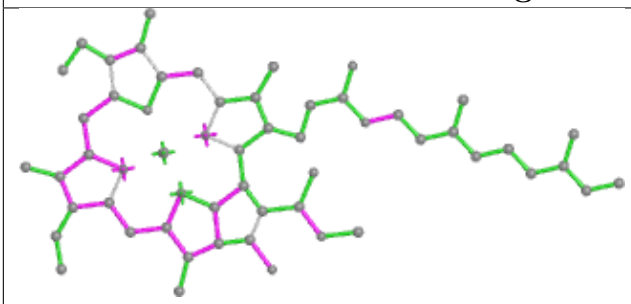
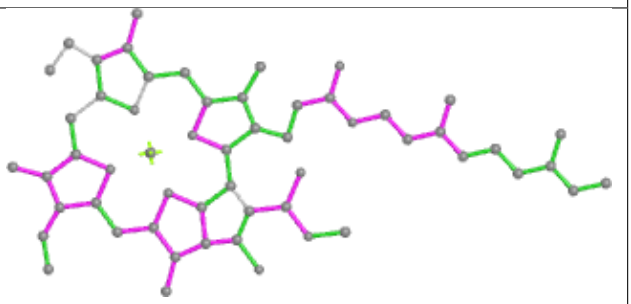
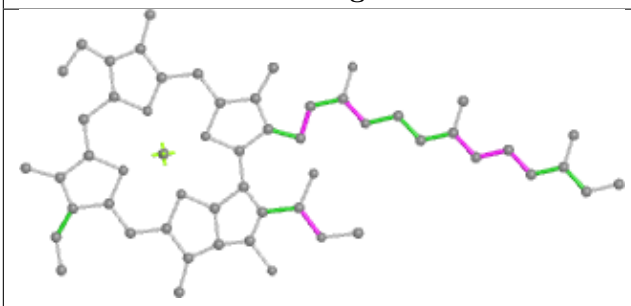
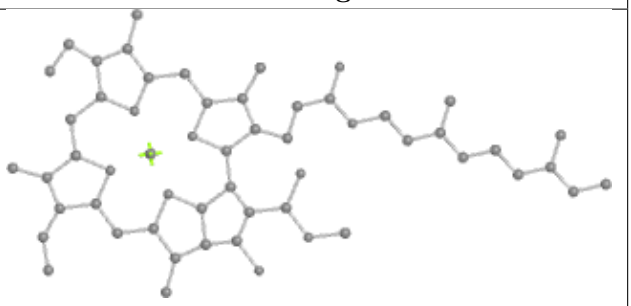


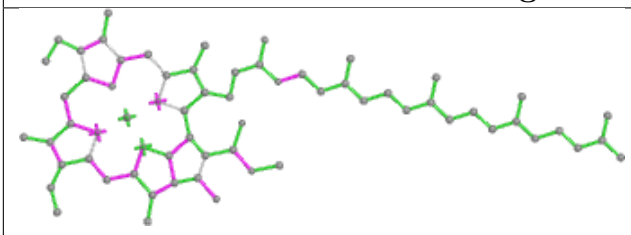
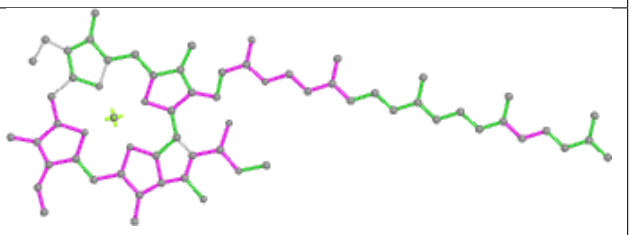
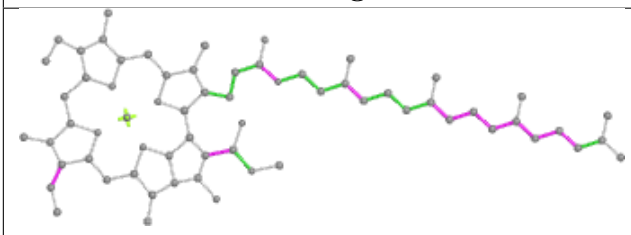
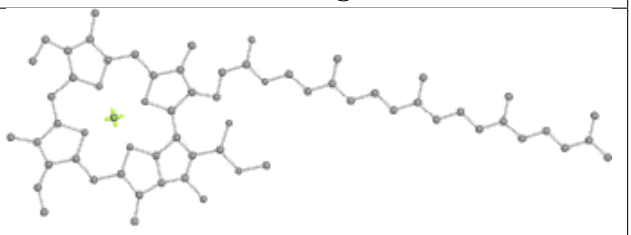
Bond angles



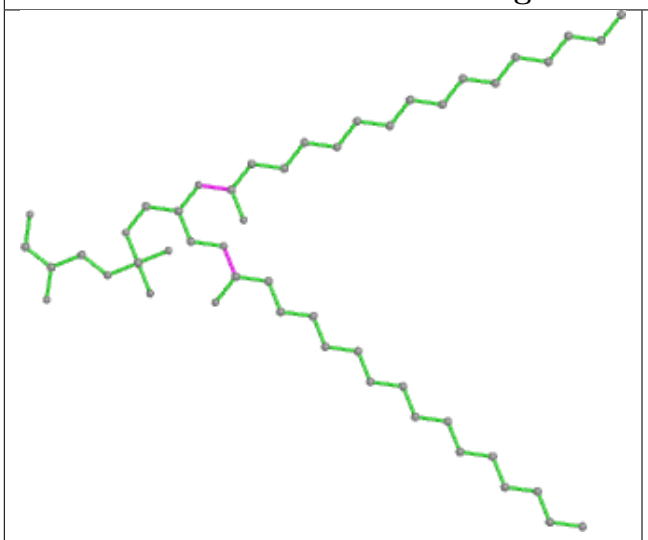
Torsions

Rings

Ligand CLA A 1115	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA 1 1011	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand LHG A 7003



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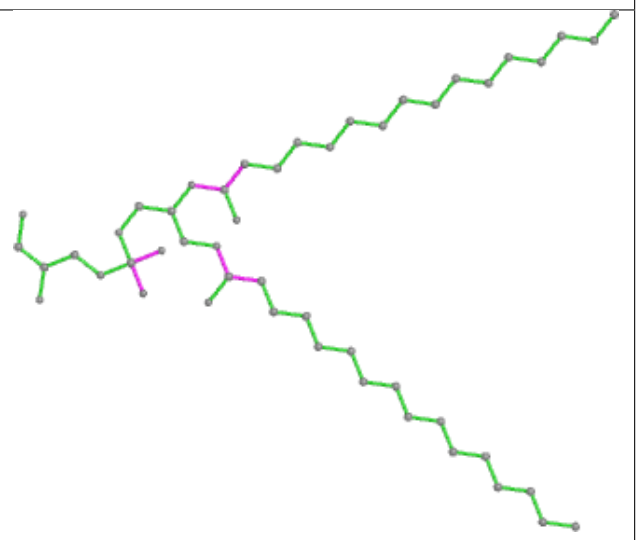
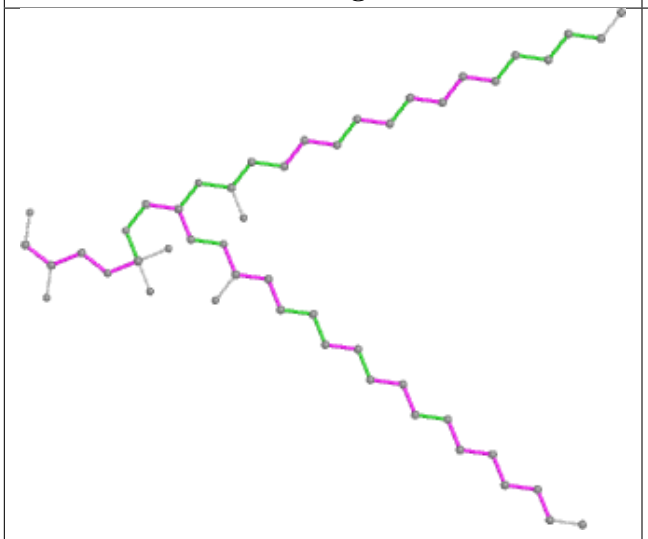


Bond angles



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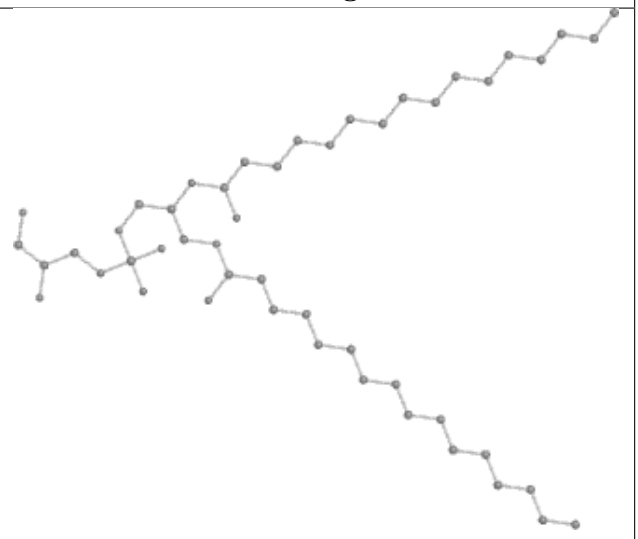
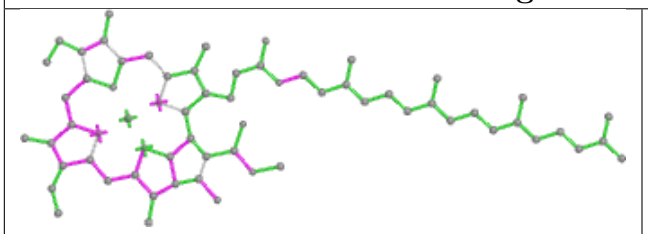


Rings

Ligand CLA B 1235



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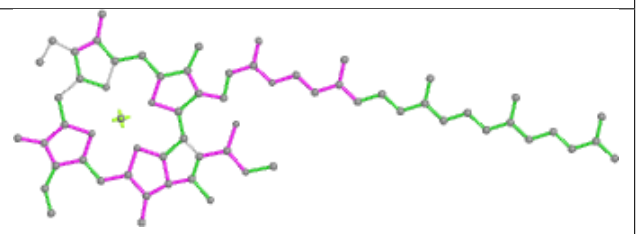
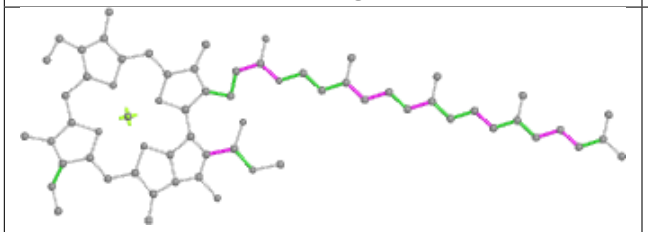


Bond angles



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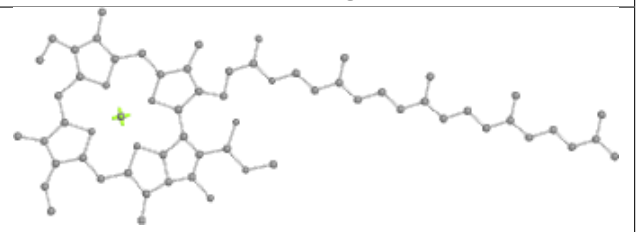
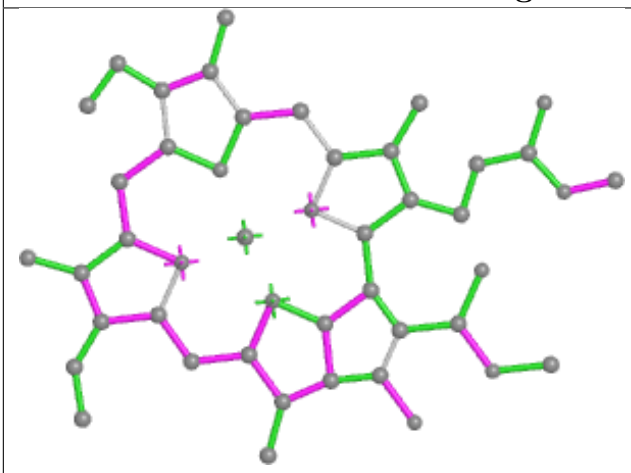


Rings

Ligand CLA B 1217



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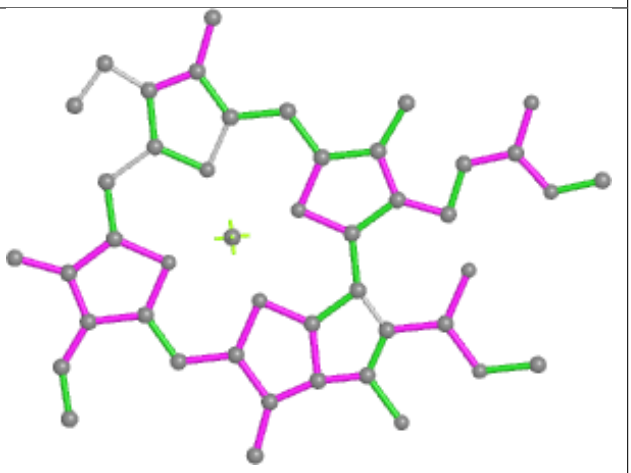
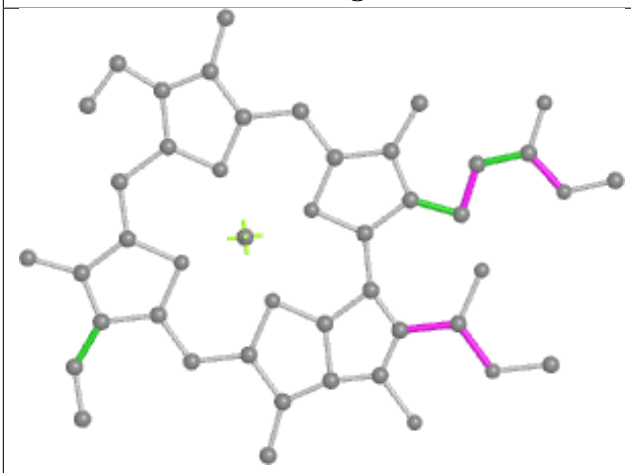
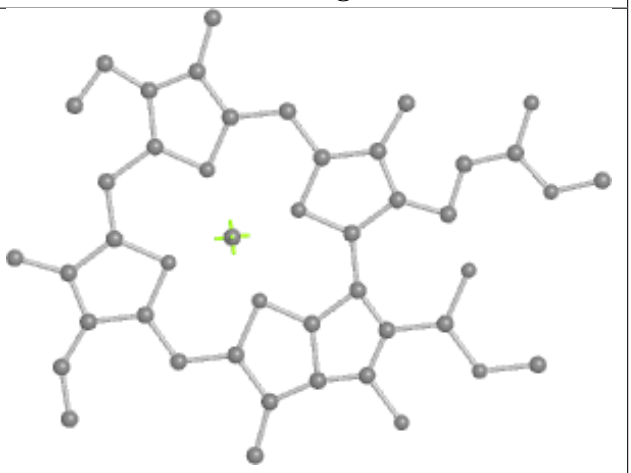


Bond angles

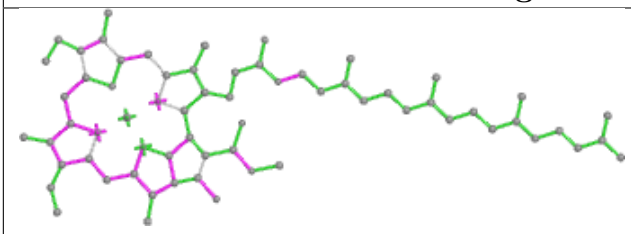


Torsions



Rings

Ligand CLA B 1238



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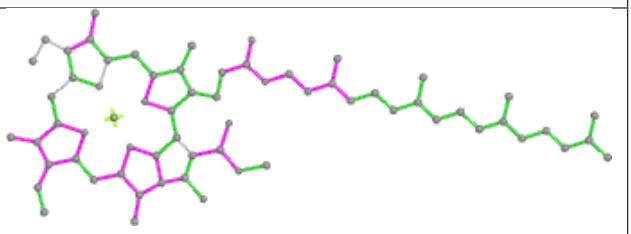
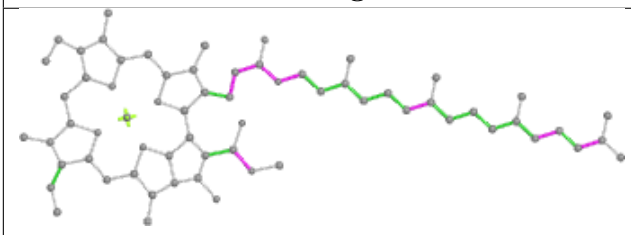


Bond angles



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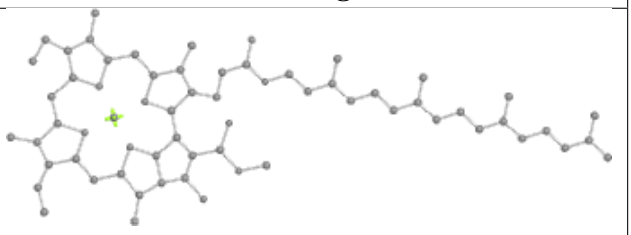
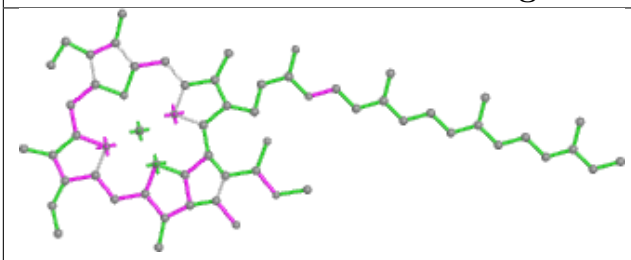
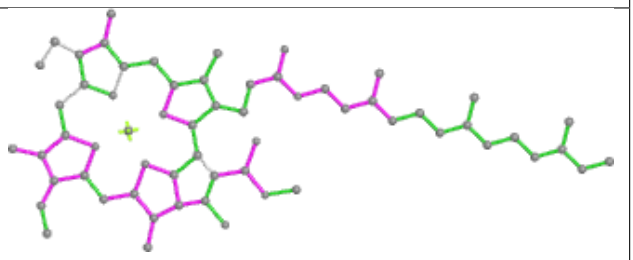
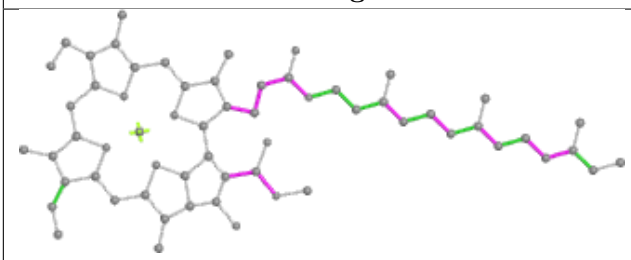
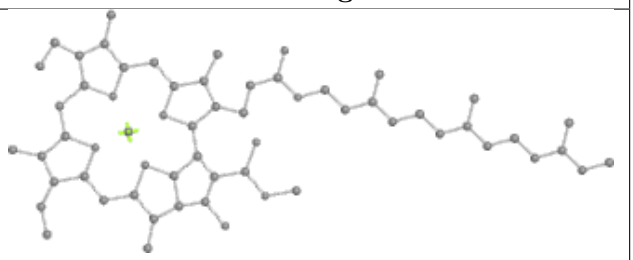
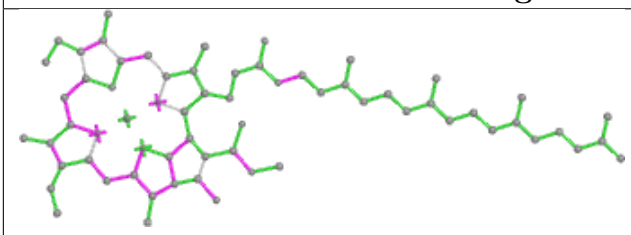
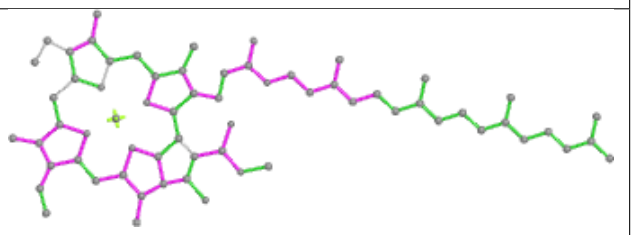
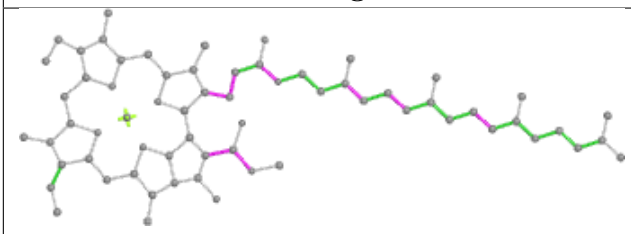
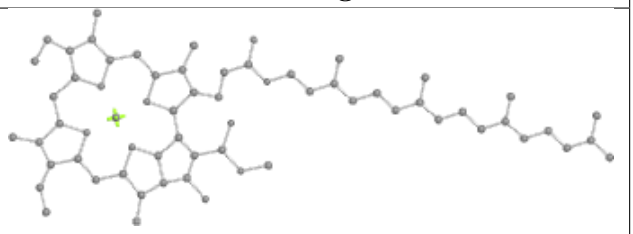
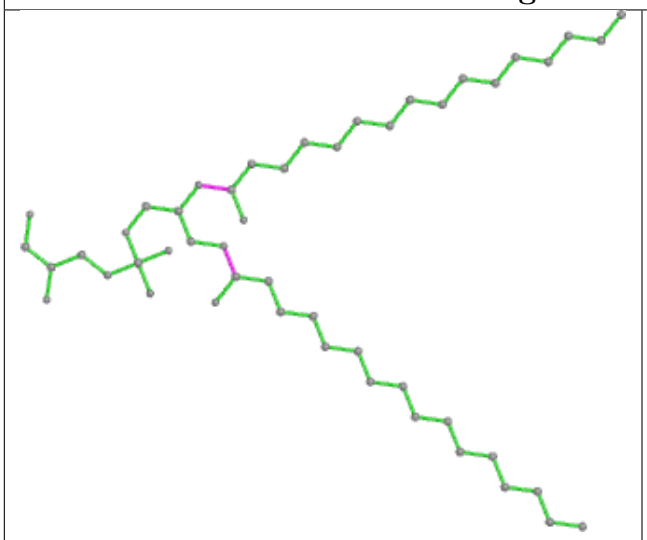


Rings

Ligand CLA J 1302	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA A 1128	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand LHG 1 1801



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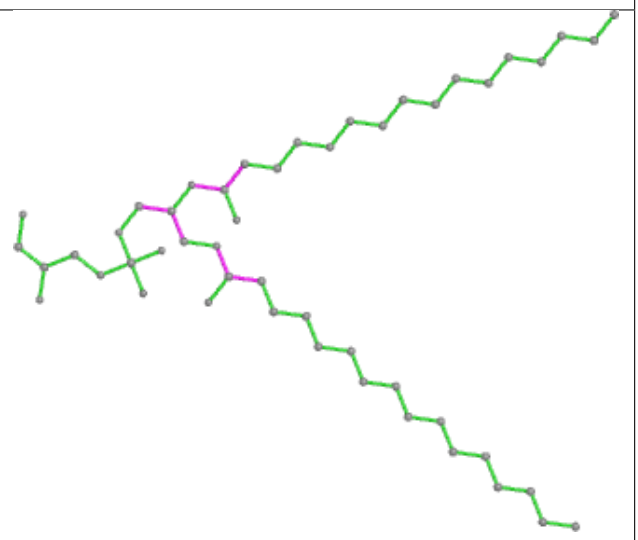
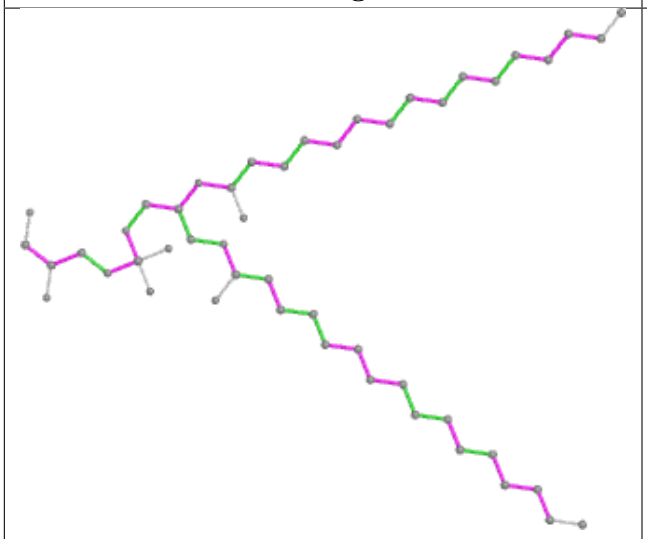
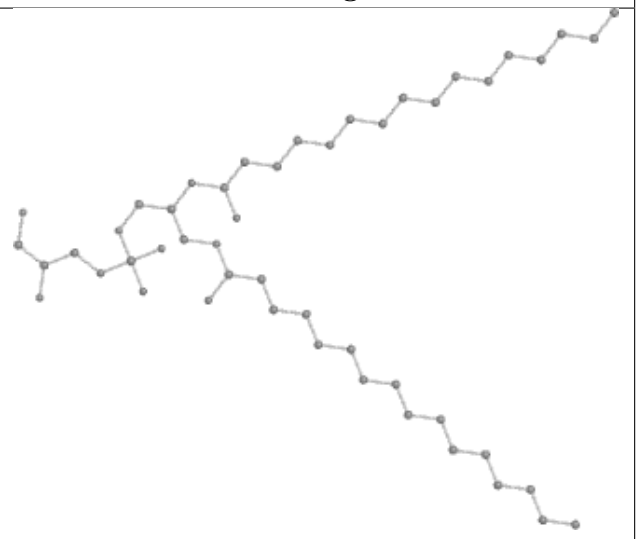


Bond angles

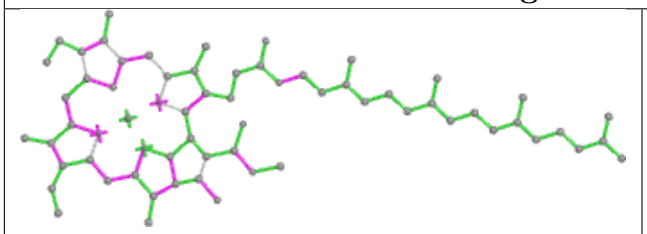


Torsions



Rings

Ligand CLA 4 4011



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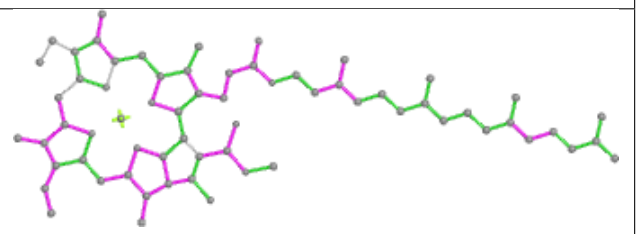
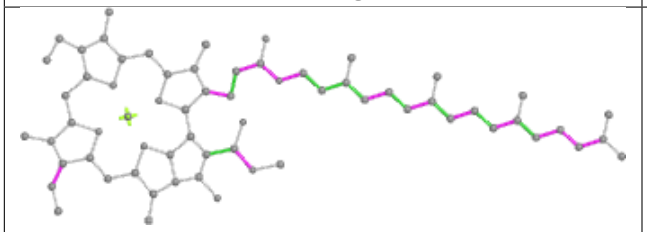


Bond angles



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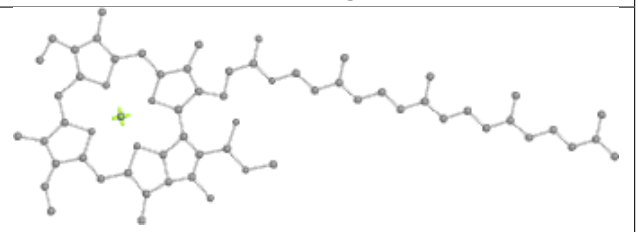
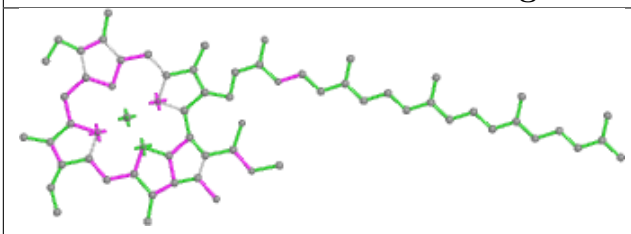
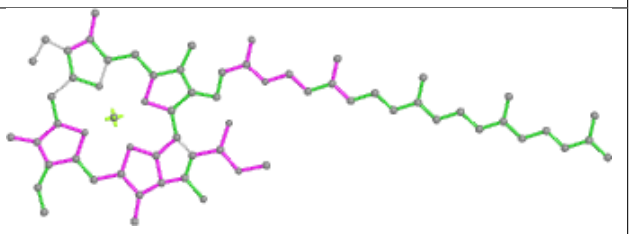
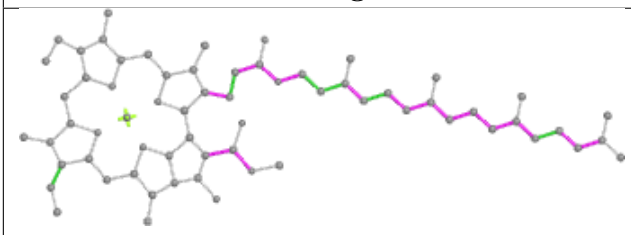
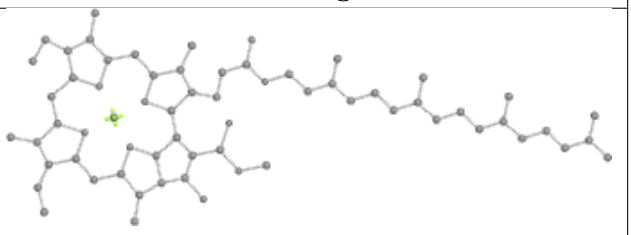
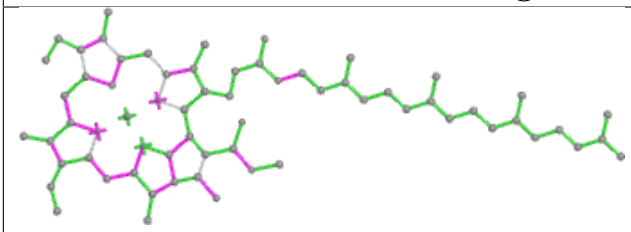
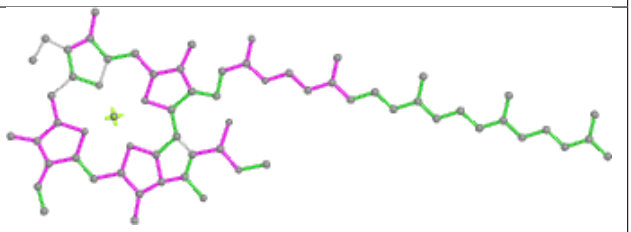
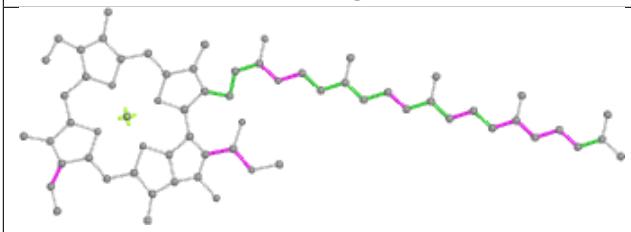
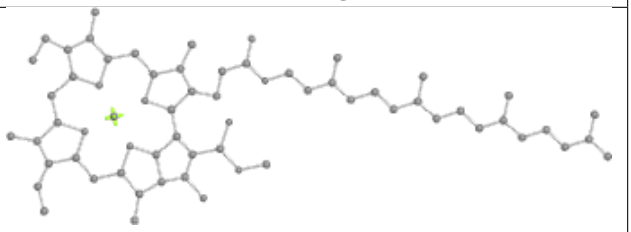
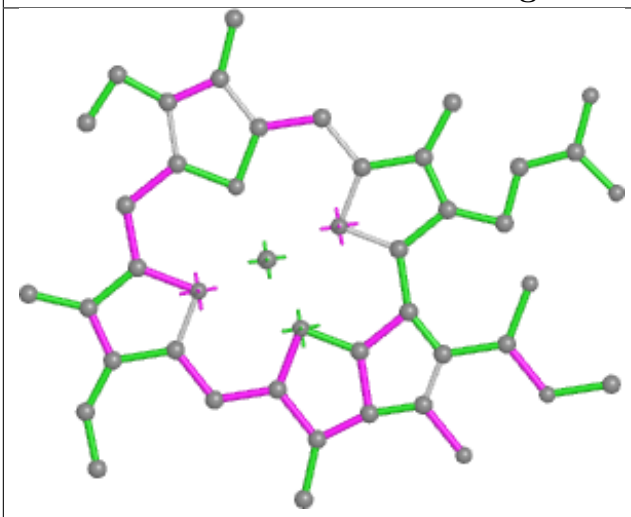


Rings

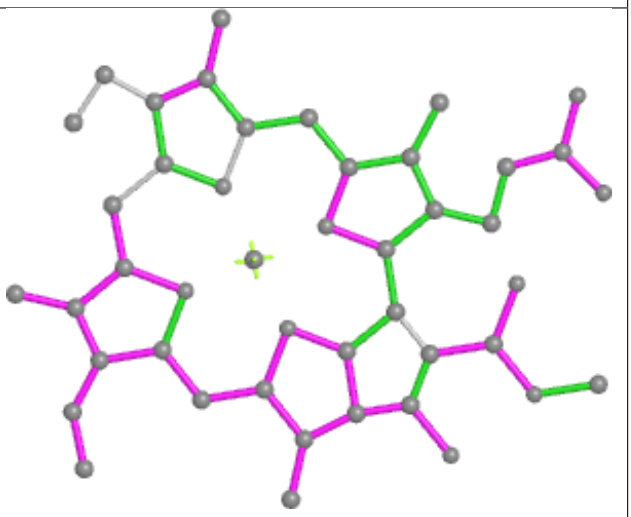
Ligand CLA 2 2010	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA B 9010	
 Bond lengths	 Bond angles
 Torsions	 Rings

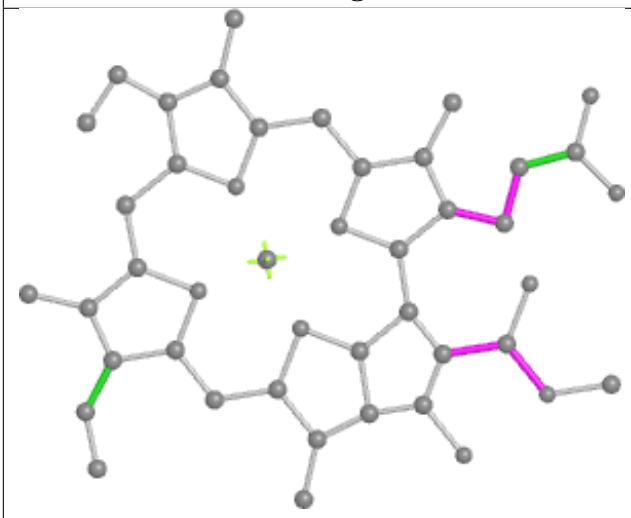
Ligand CLA 3 3014



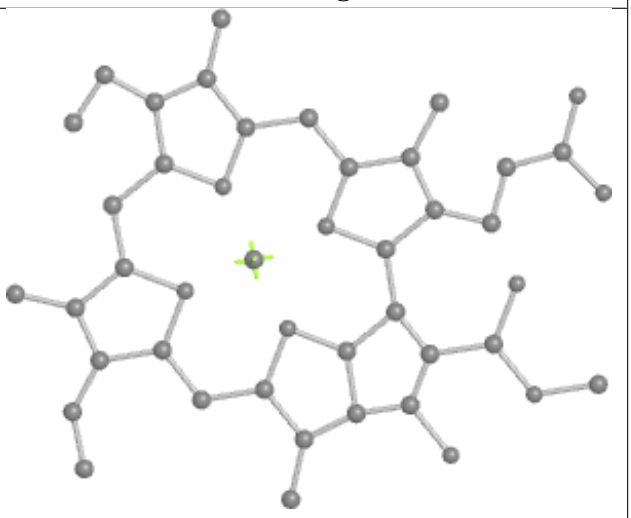
Bond lengths



Bond angles

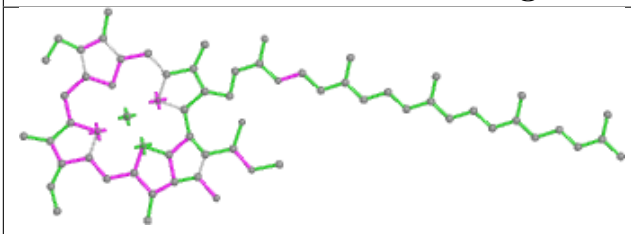


Torsions



Rings

Ligand CLA 2 2003



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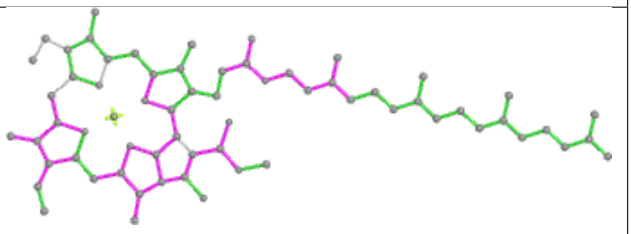

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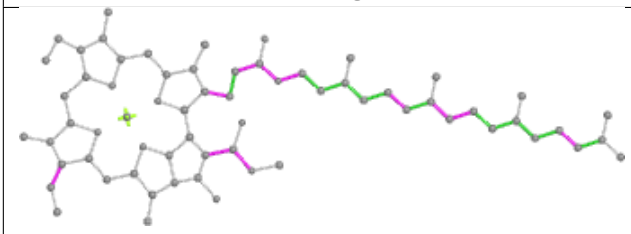

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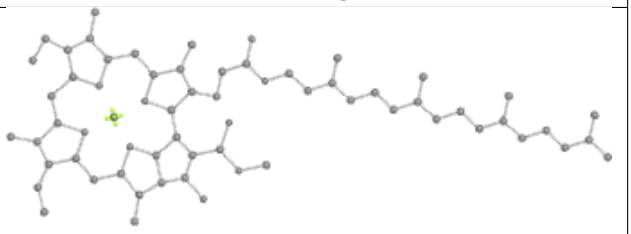
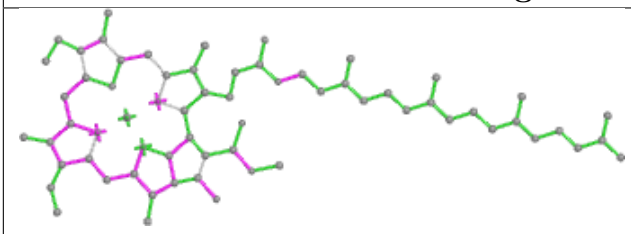


Rings

Ligand CLA A 1127



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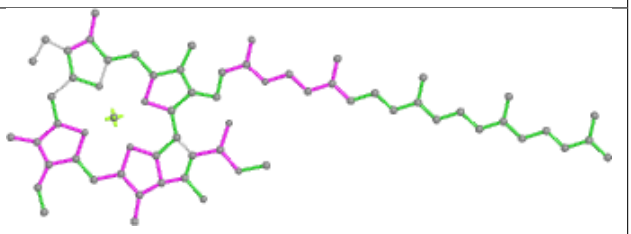
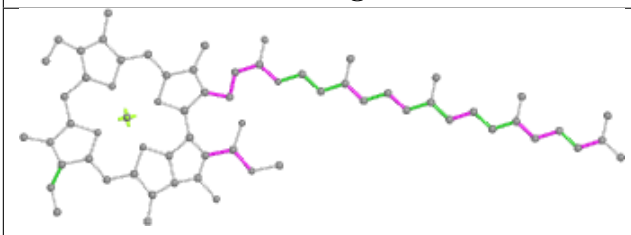


Bond angles



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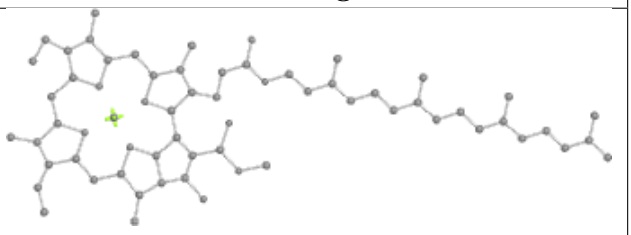
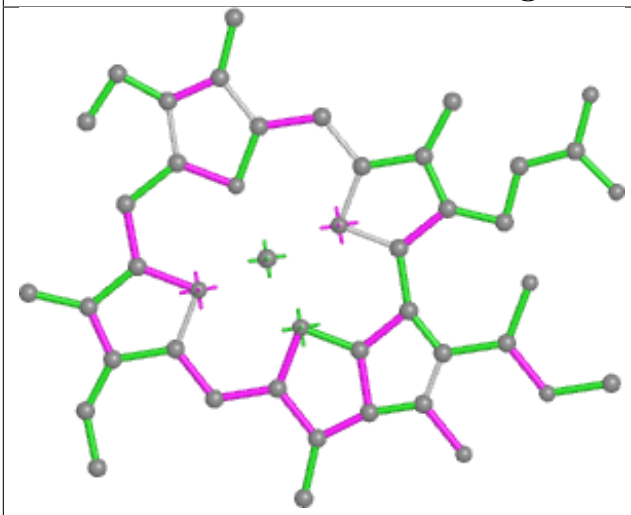


Rings

Ligand CLA 4 4005



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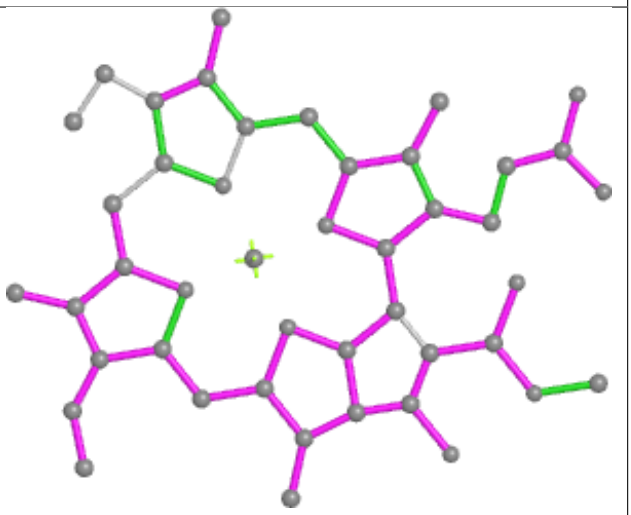
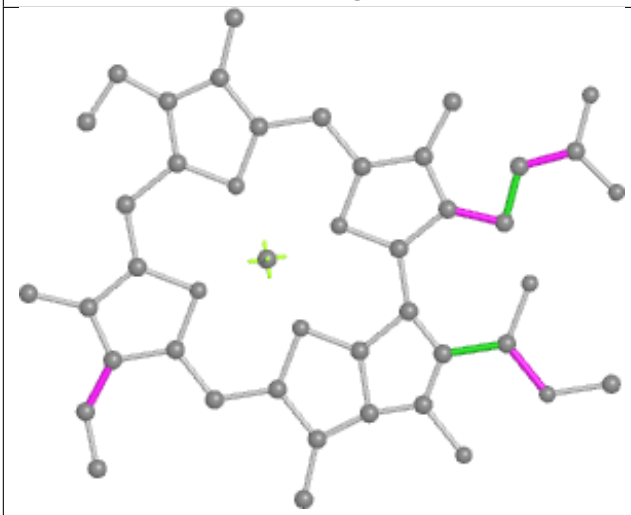


Bond angles



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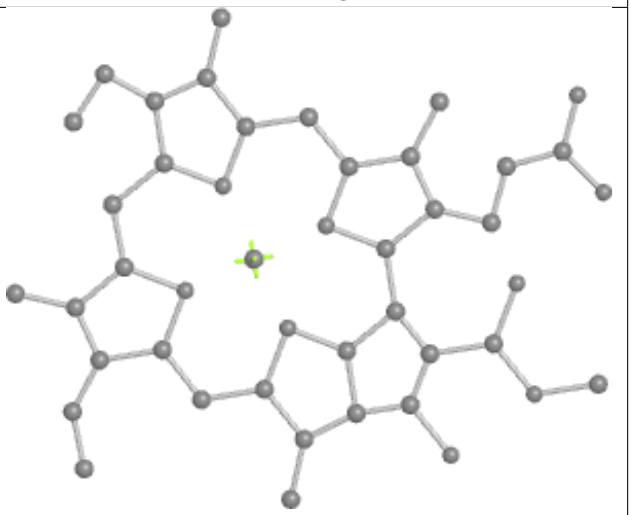
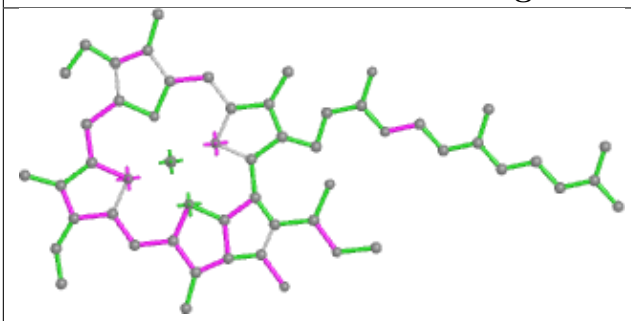
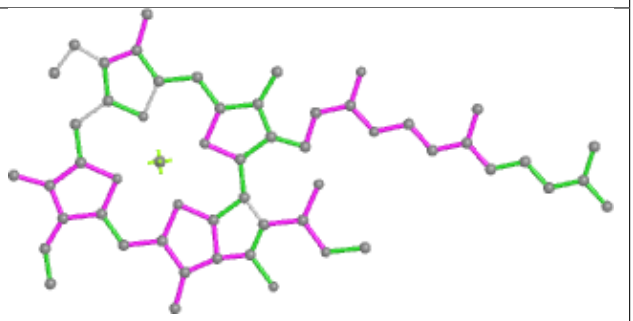
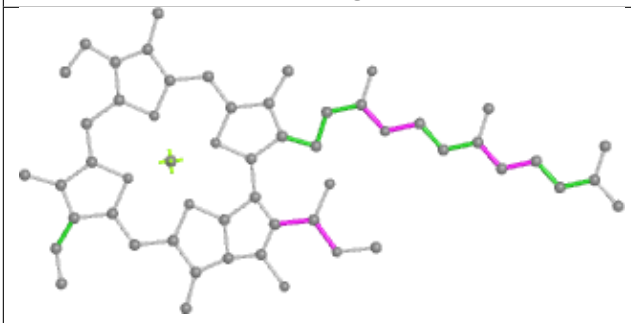
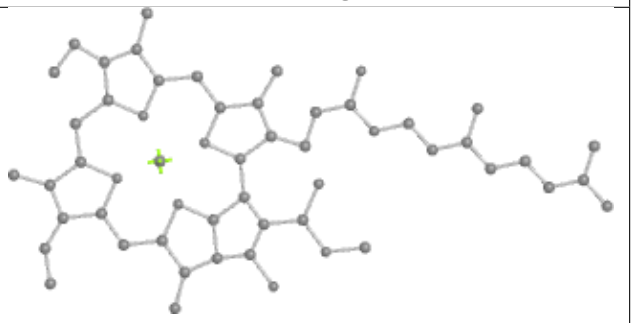
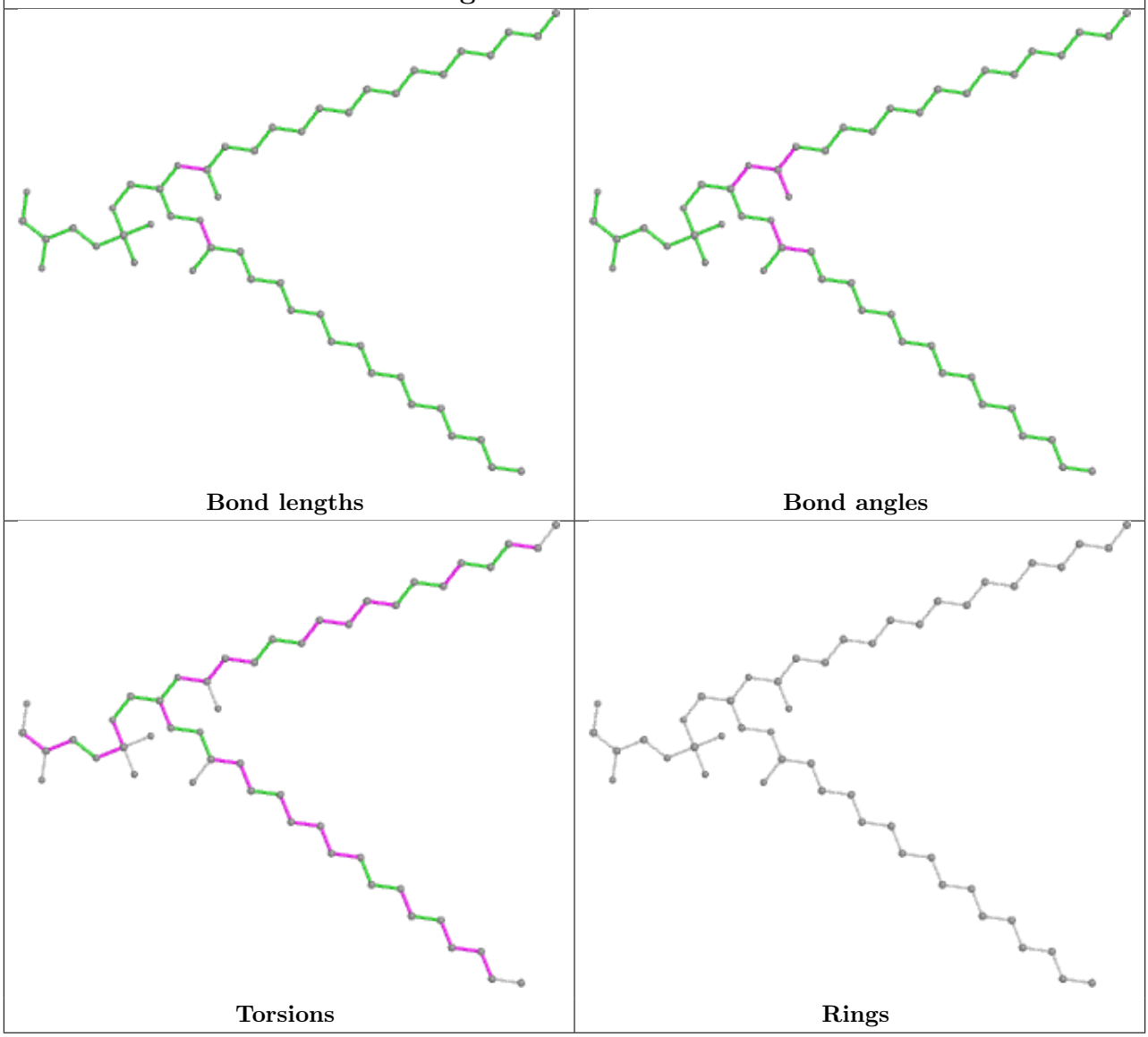


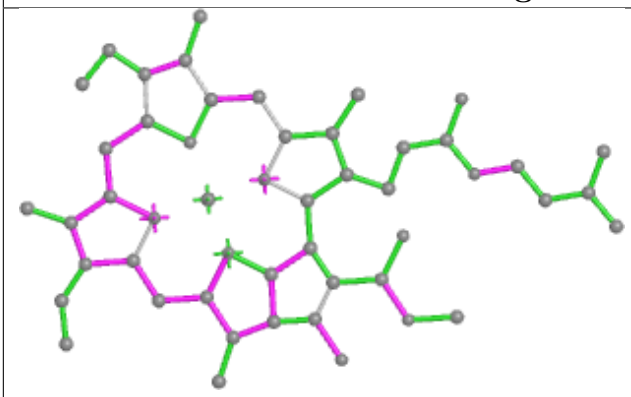
Rings

Ligand CLA A 1137	
 Bond lengths	 Bond angles
 Torsions	 Rings

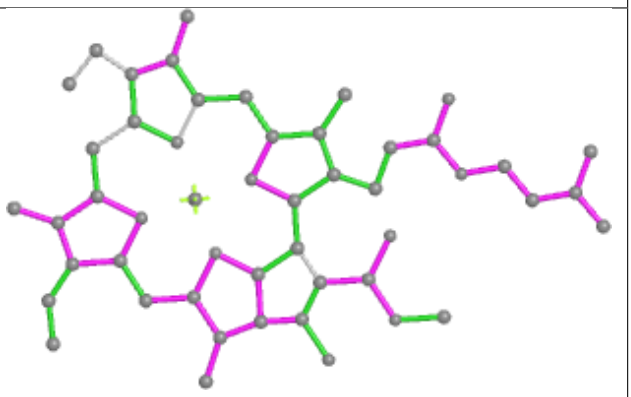
Ligand LHG A 7001



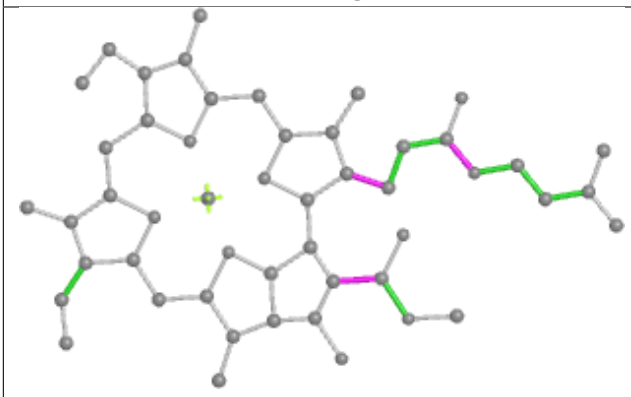
Ligand CLA A 1102



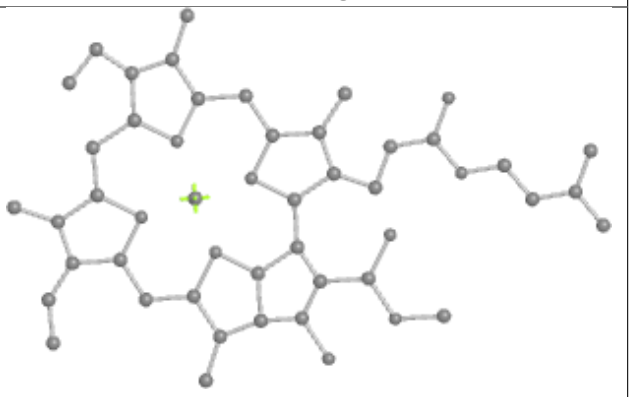
Bond lengths



Bond angles

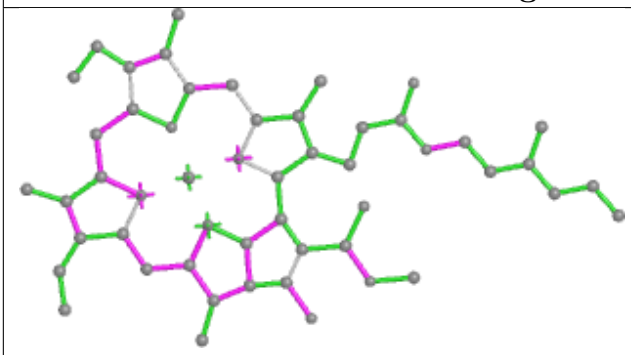


Torsions



Rings

Ligand CLA 3 3010



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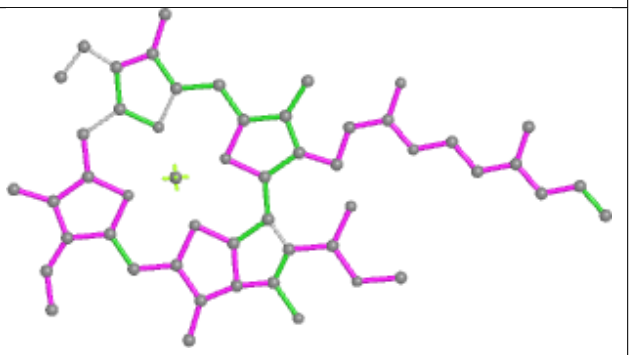

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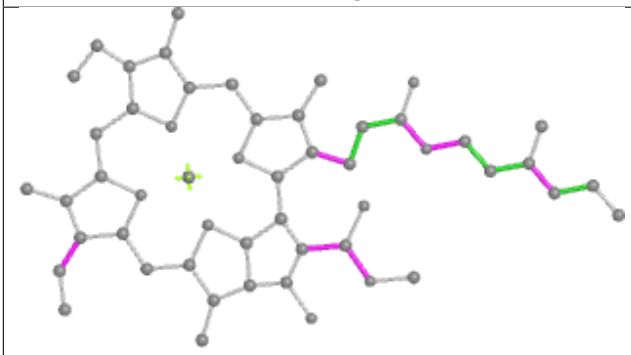

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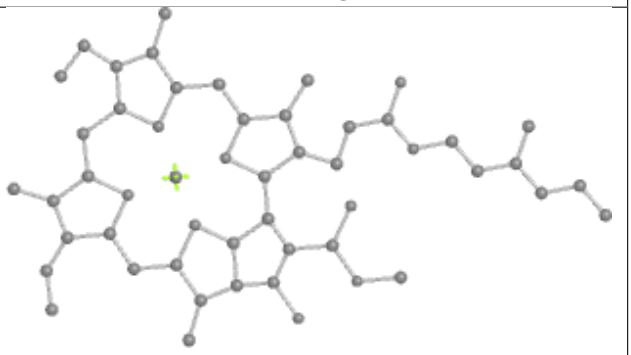
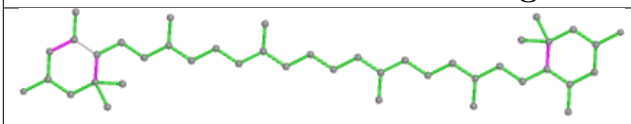


Rings

Ligand LUT 2 2502



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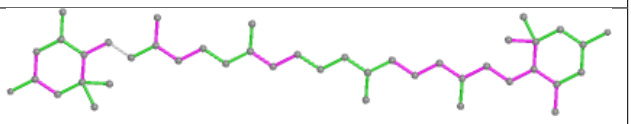

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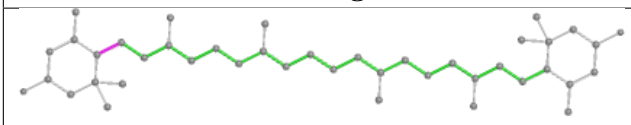

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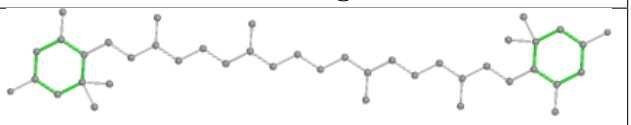
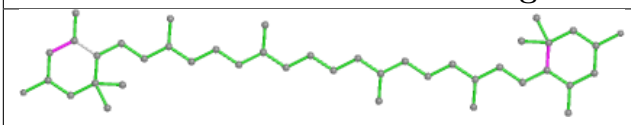


Rings

Ligand LUT 2 2501



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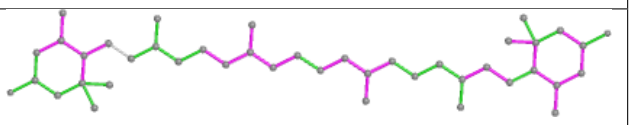

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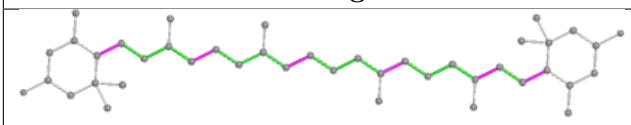

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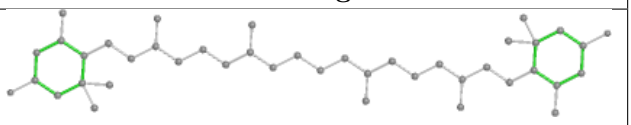
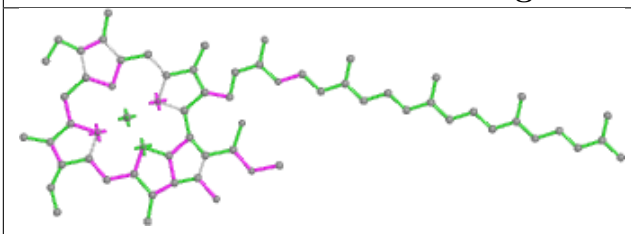


Rings

Ligand CLA B 9022



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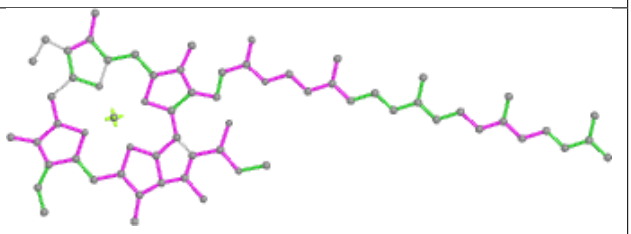

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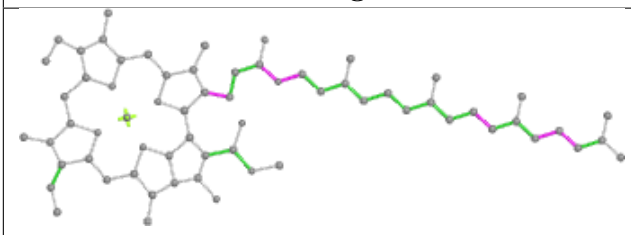

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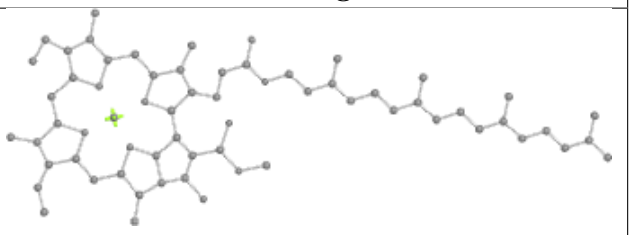
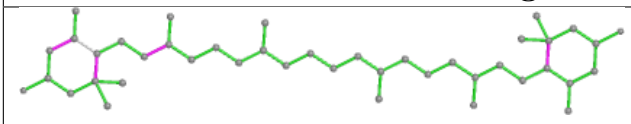
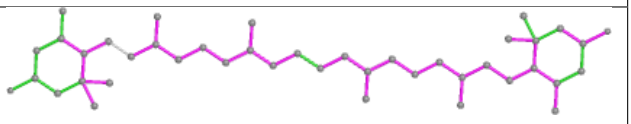


Rings

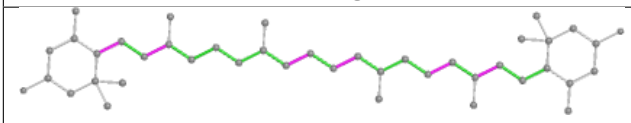
Ligand LUT 4 4502



Bond lengths



Bond angles



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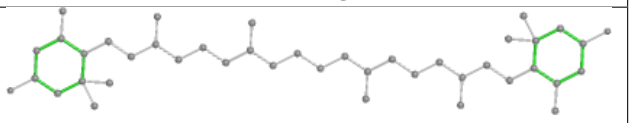
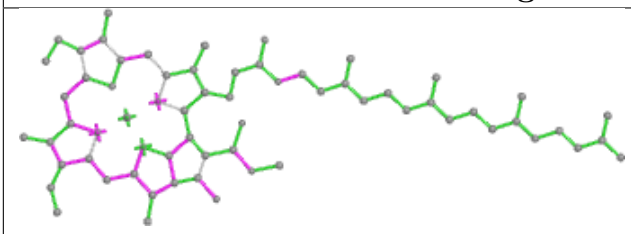
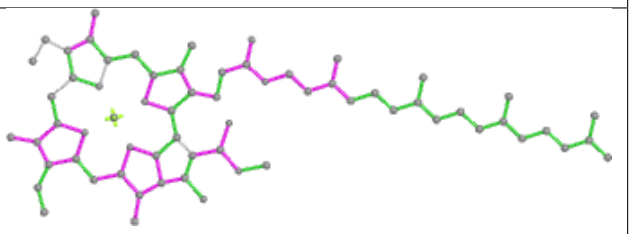


Rings

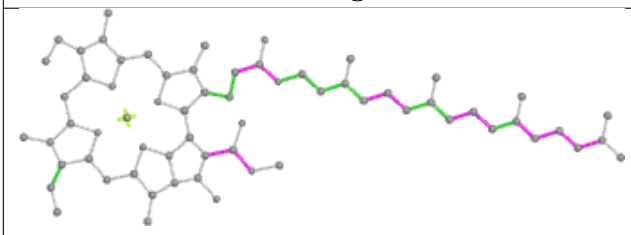
Ligand CLA L 1502



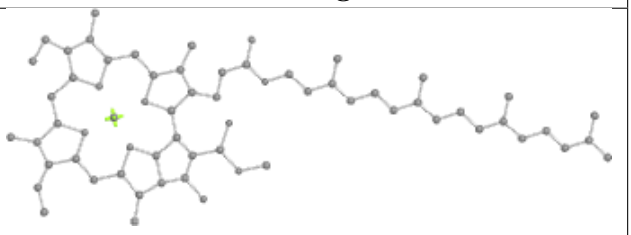
Bond lengths



Bond angles

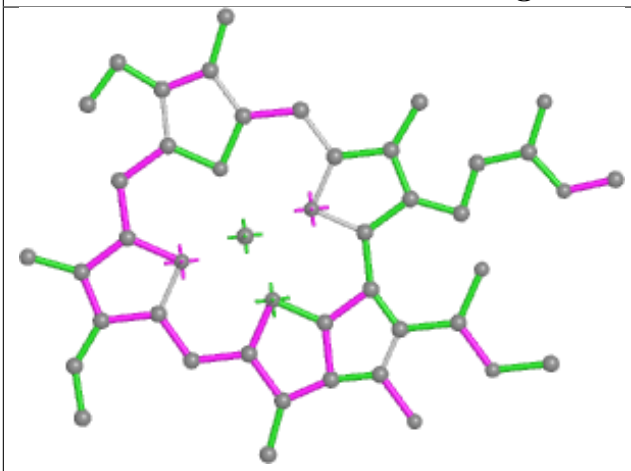


Torsions



Rings

Ligand CLA B 1209



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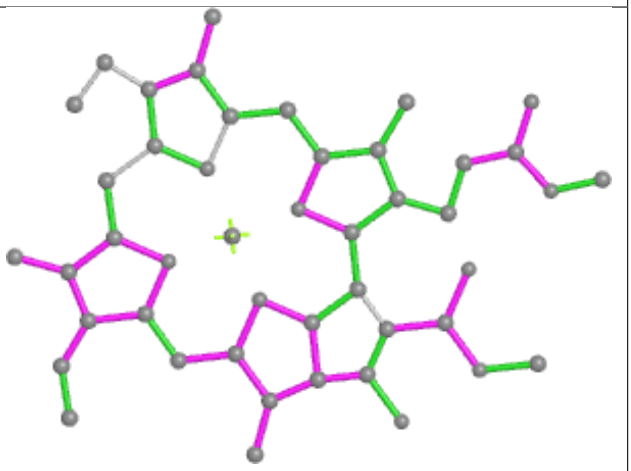

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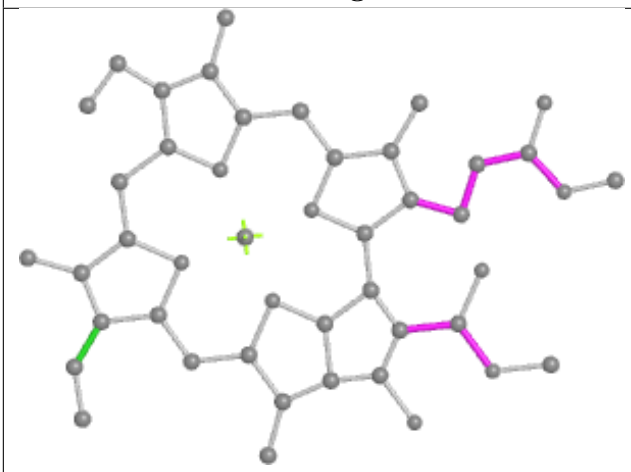

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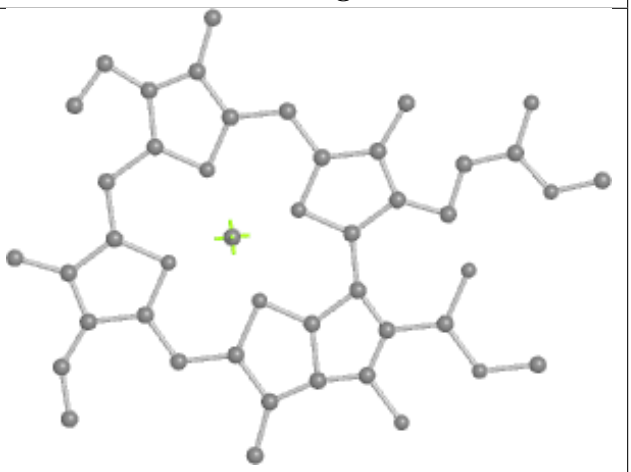
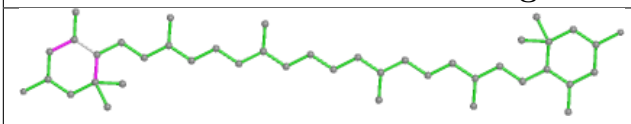


Rings

Ligand LUT 4 4501



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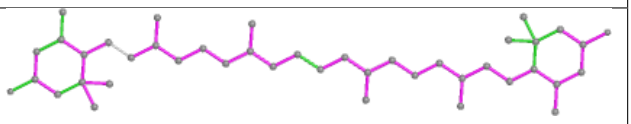
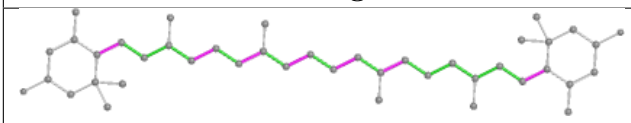


Bond angles



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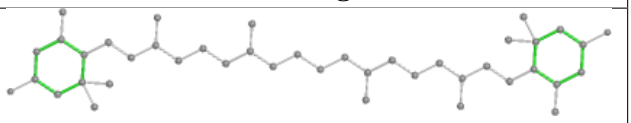
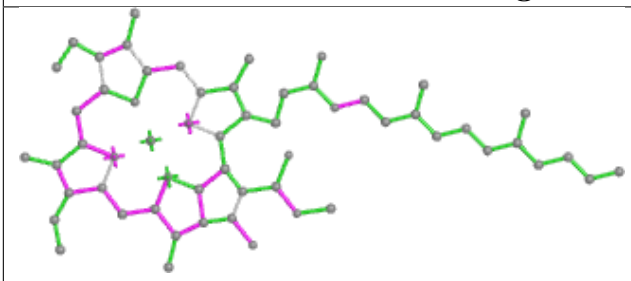


Rings

Ligand CLA B 1230



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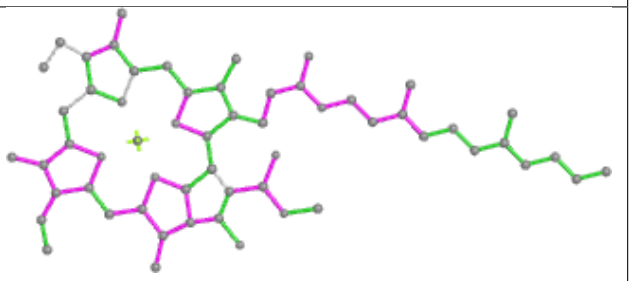
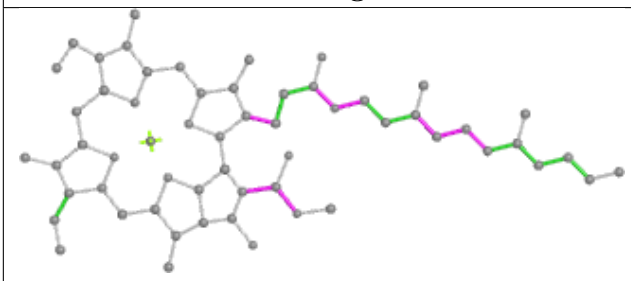


Bond angles



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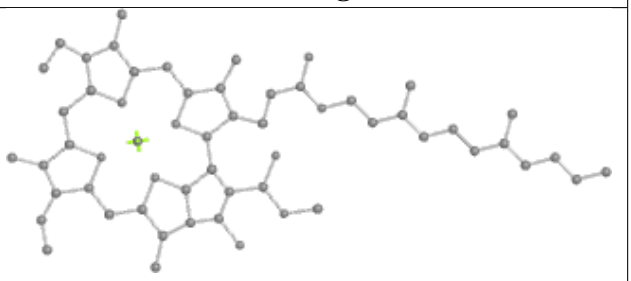
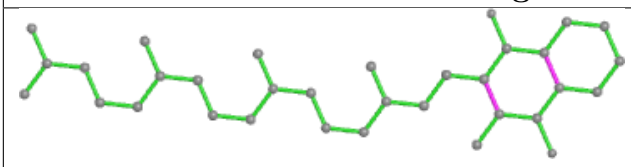


Rings

Ligand PQN A 5001



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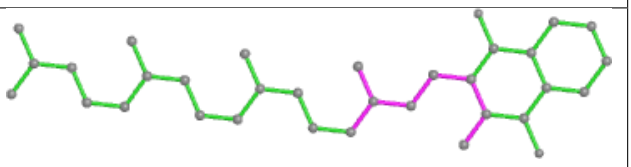
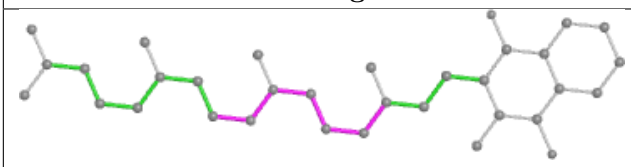


Bond angles



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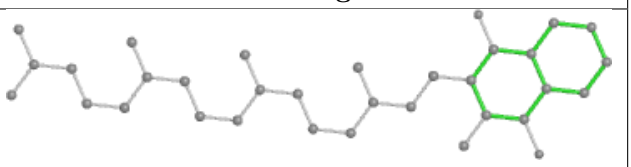
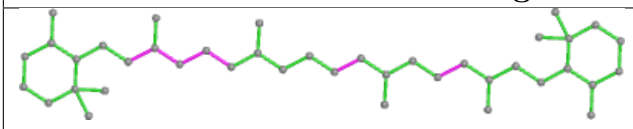


Rings

Ligand BCR A 6017



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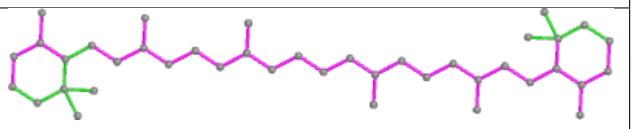
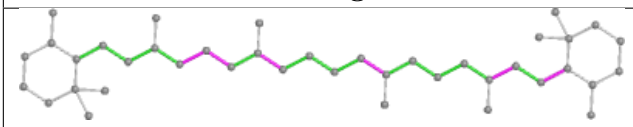


Bond angles



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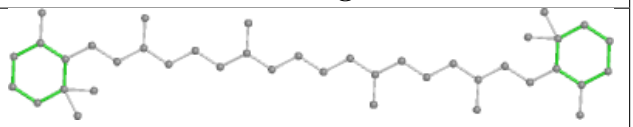
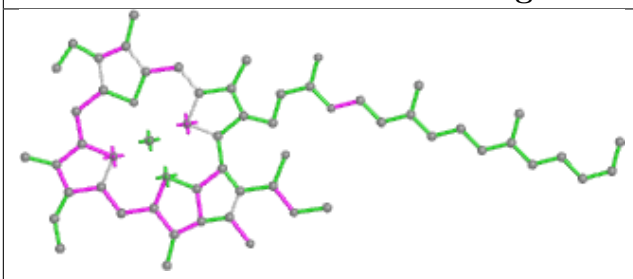


Rings

Ligand CLA B 1214



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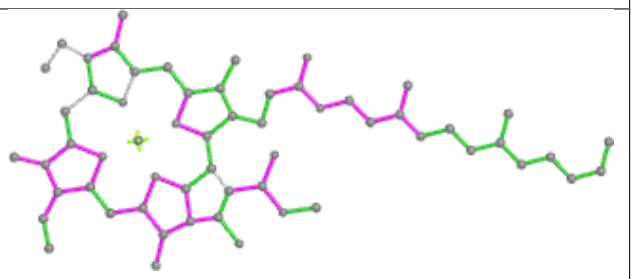
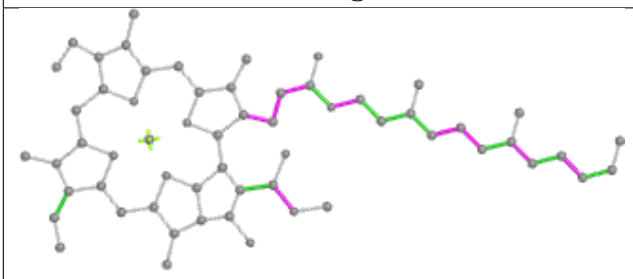


Bond angles



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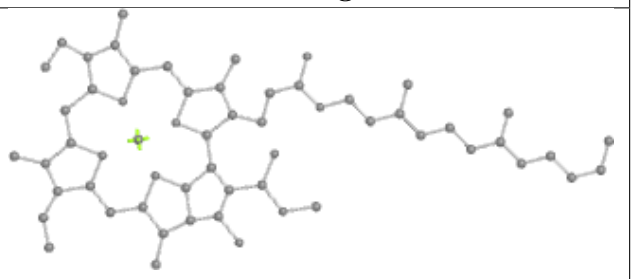
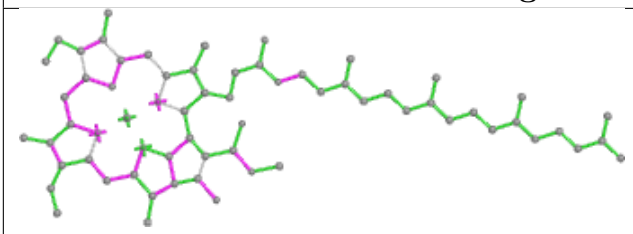


Rings

Ligand CLA 4 4003



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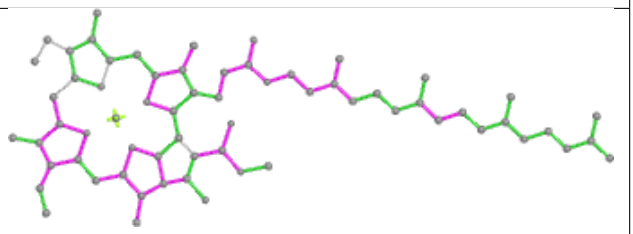

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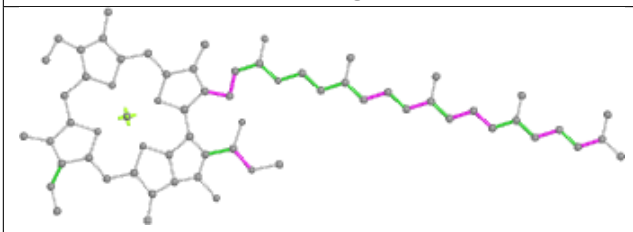

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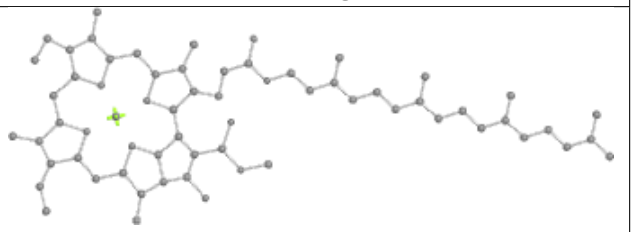
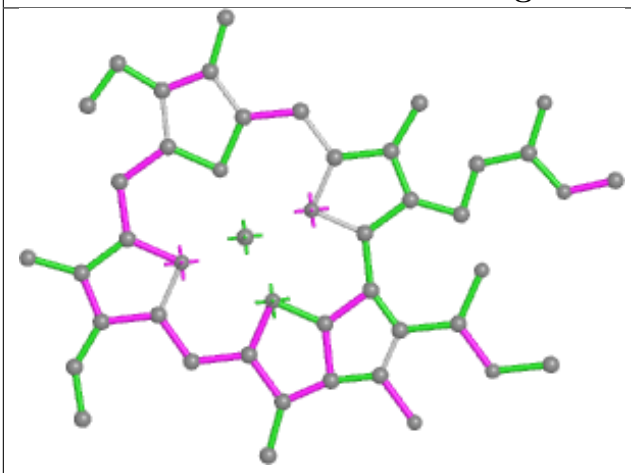


Rings

Ligand CLA A 1120



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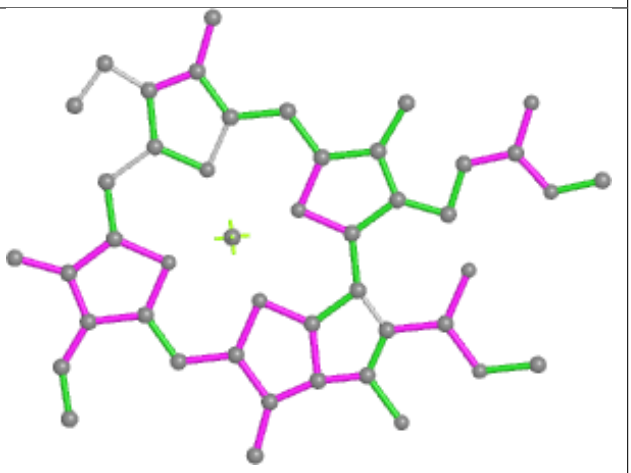
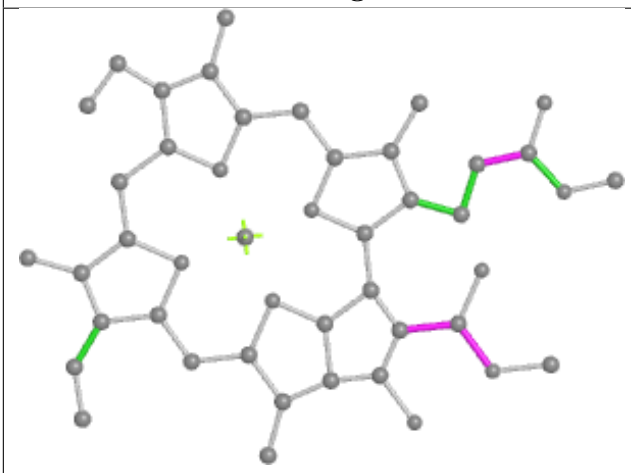


Bond angles



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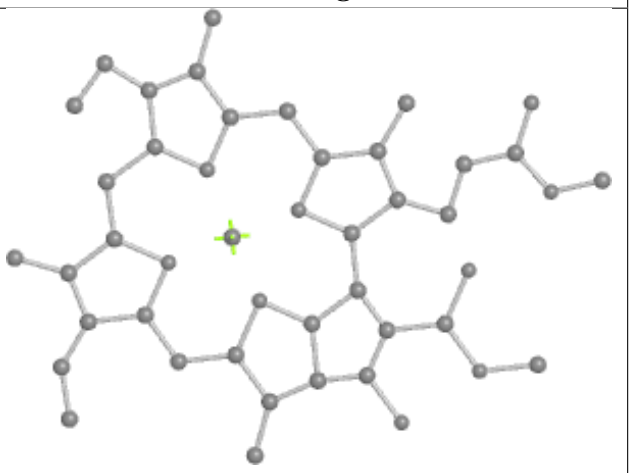
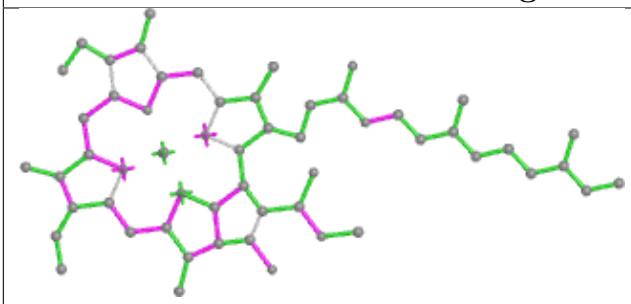


Rings

Ligand CLA 1 1005



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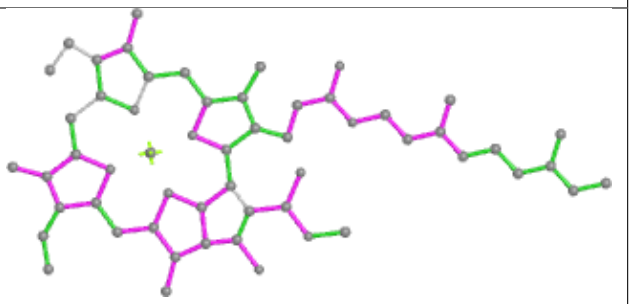
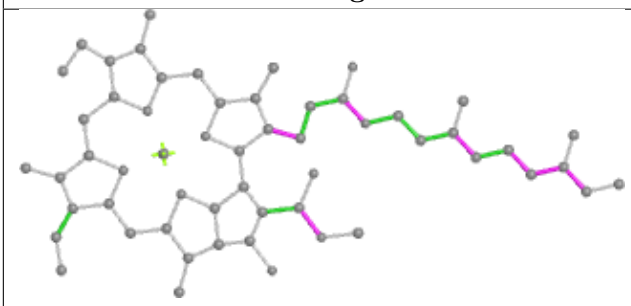


Bond angles



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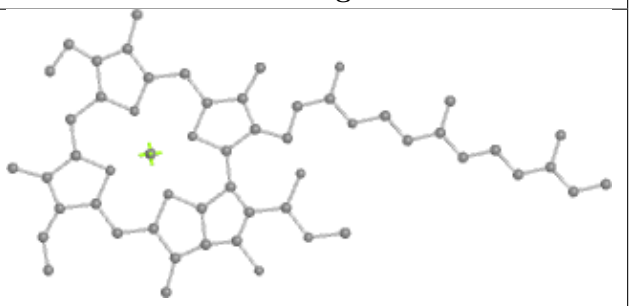
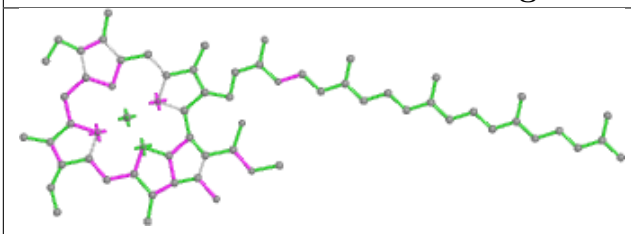
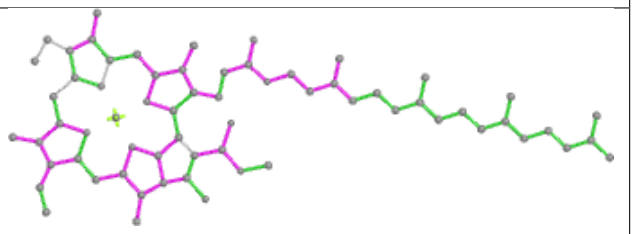
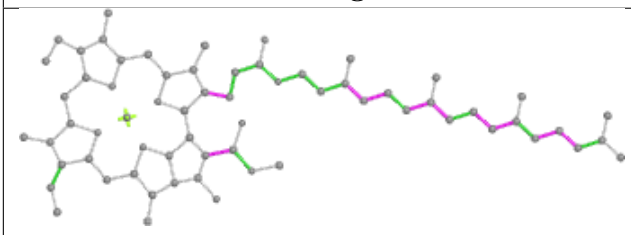
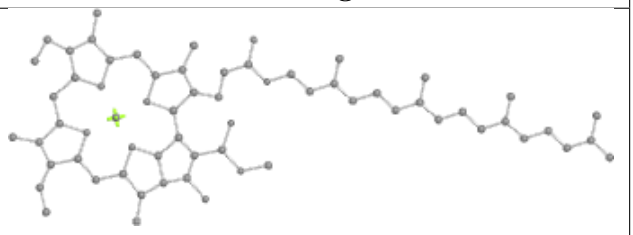


Rings

Ligand CLA 1 1003	
 Bond lengths	 Bond angles
 Torsions	 Rings

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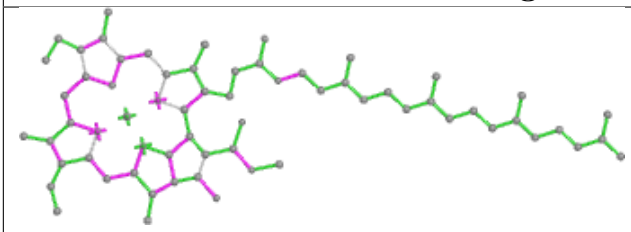
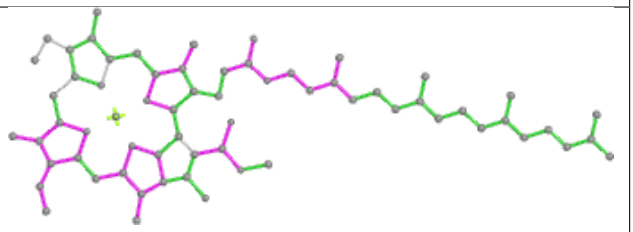
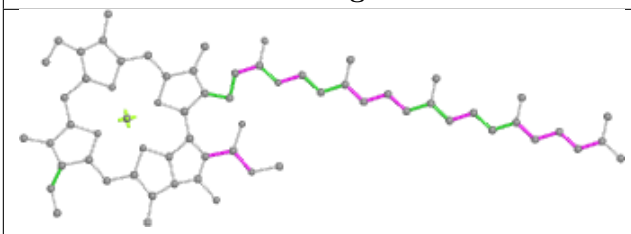
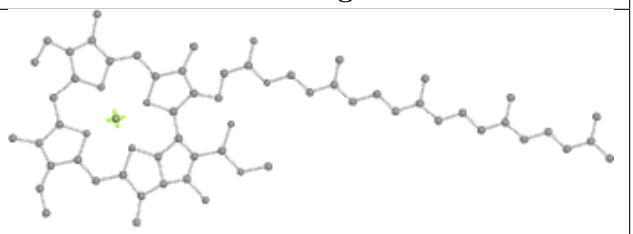
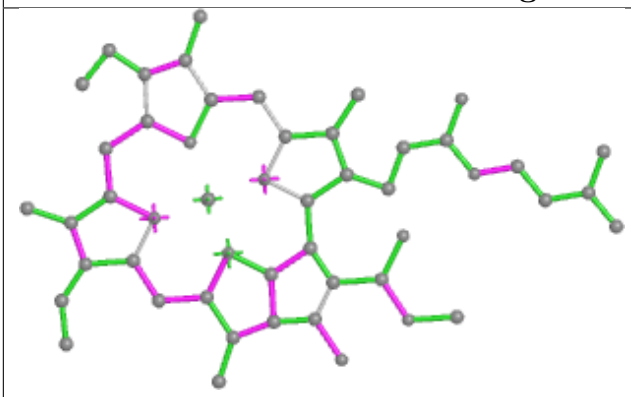
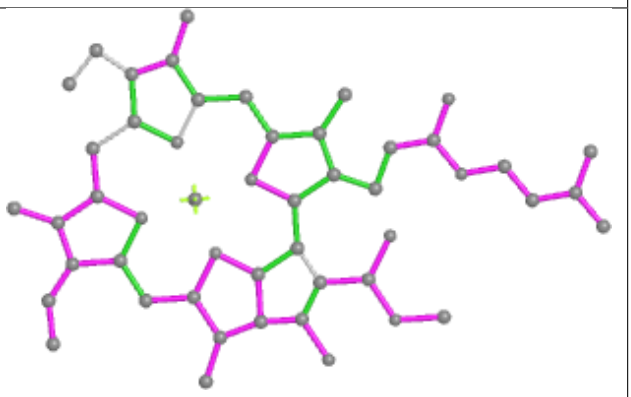
 Bond lengths	 Bond angles
 Torsions	 Rings

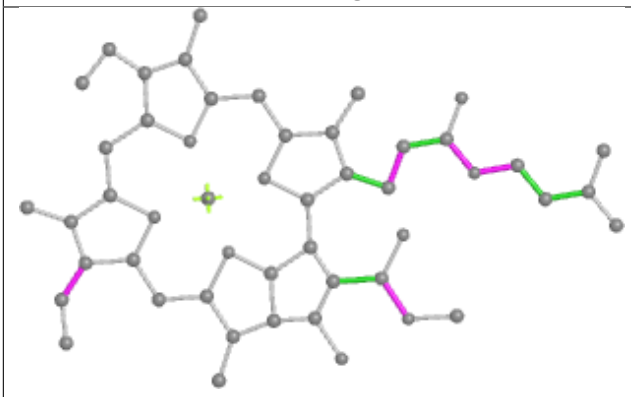
Ligand CLA 1 1012



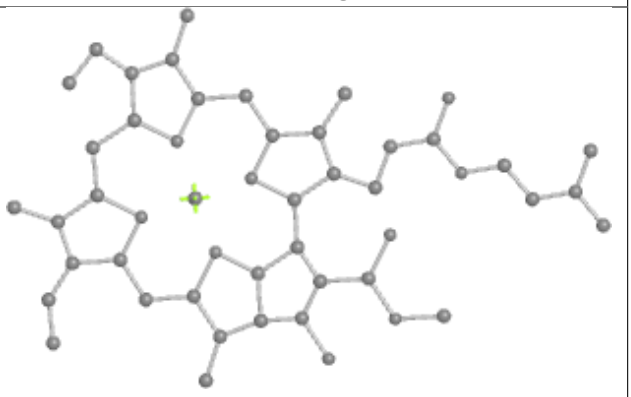
Bond lengths



Bond angles

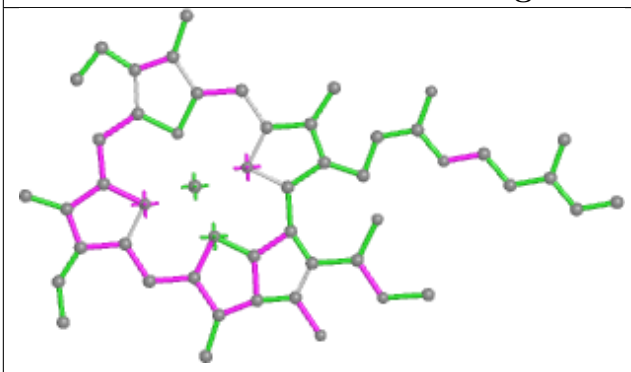


Torsions

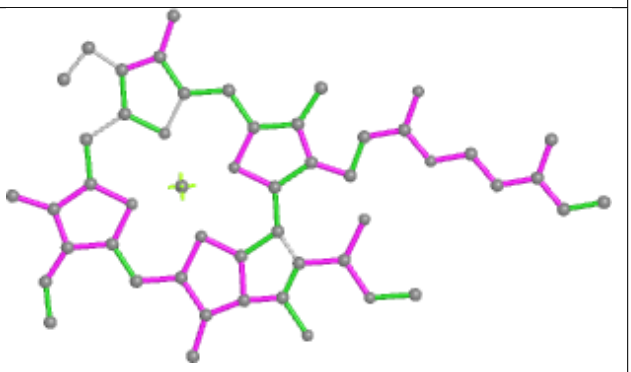


Rings

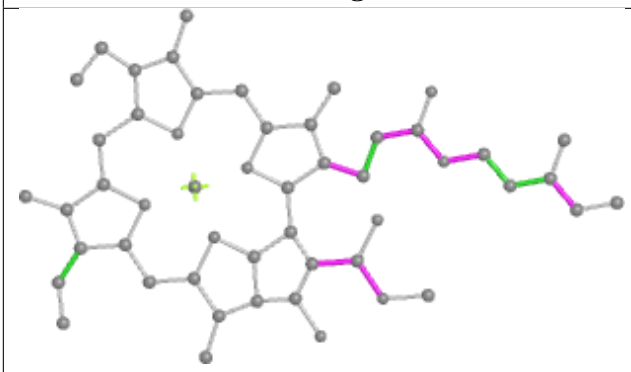
Ligand CLA A 1107



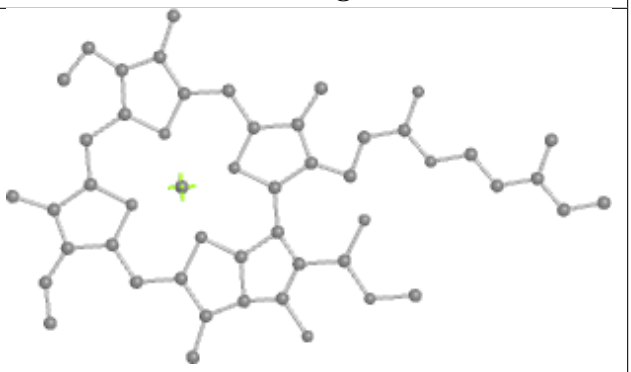
Bond lengths



Bond angles

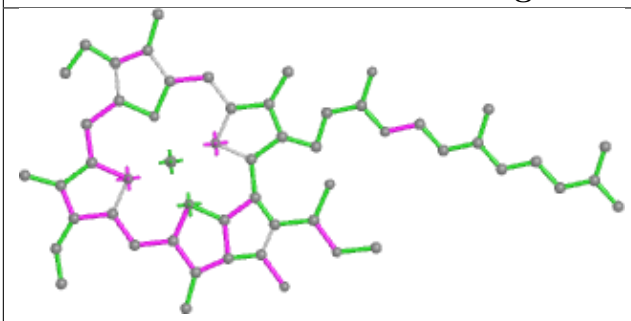


Torsions



Rings

Ligand CLA A 1124



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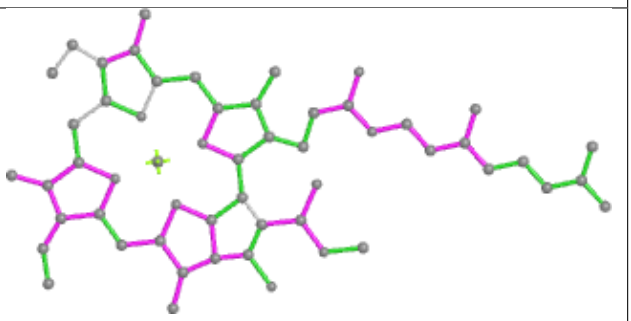
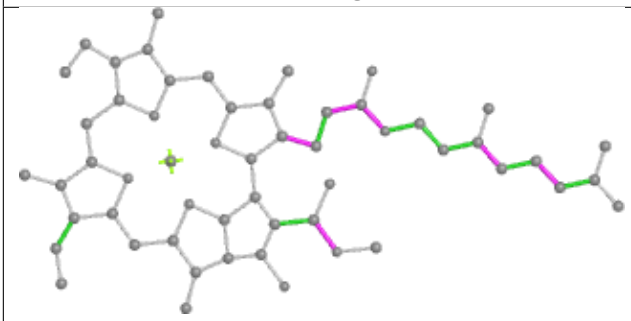


Bond angles



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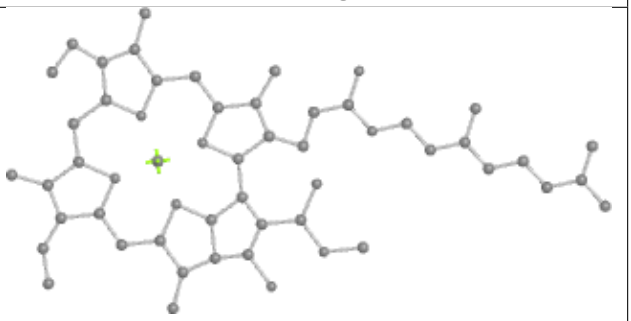
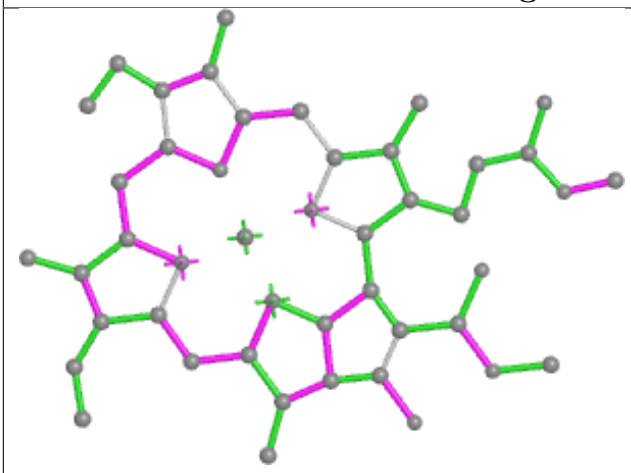


Rings

Ligand CLA 2 2009



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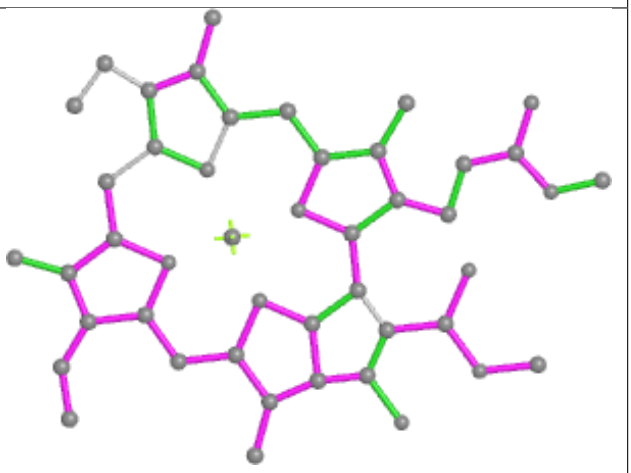
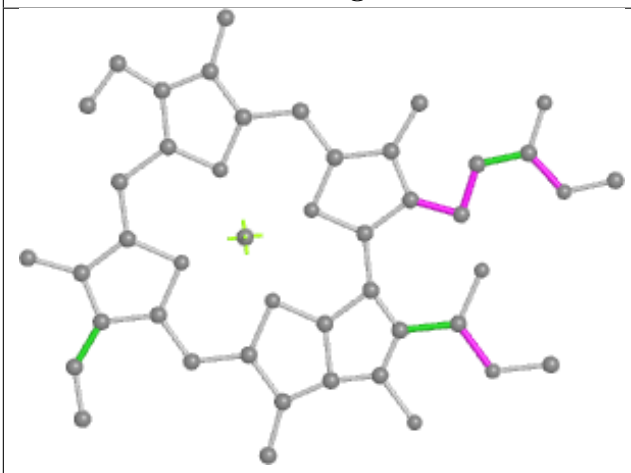


Bond angles



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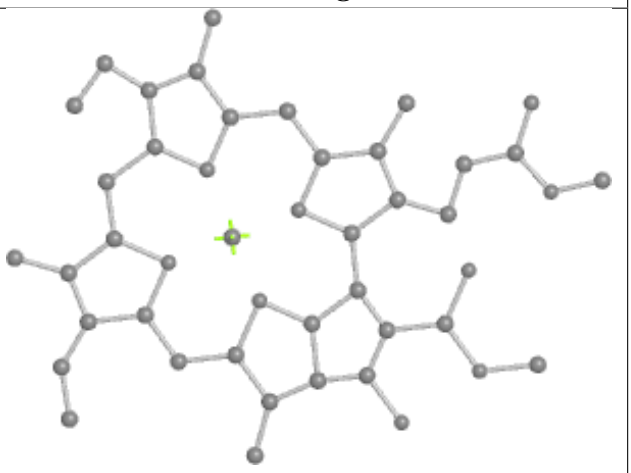
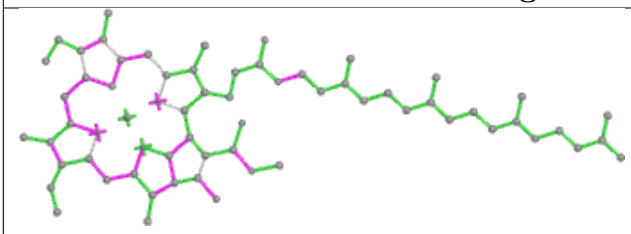


Rings

Ligand CLA 2 2005



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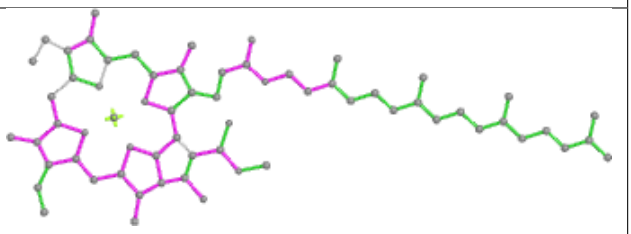
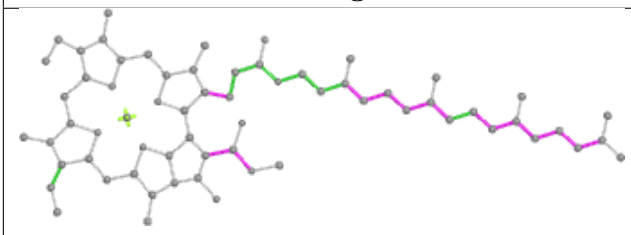


Bond angles



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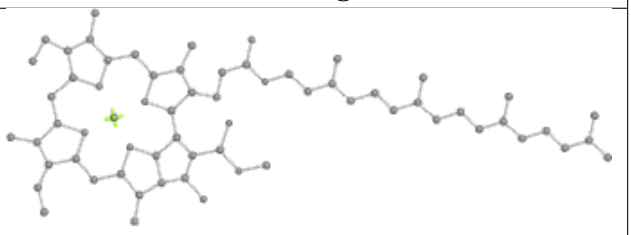
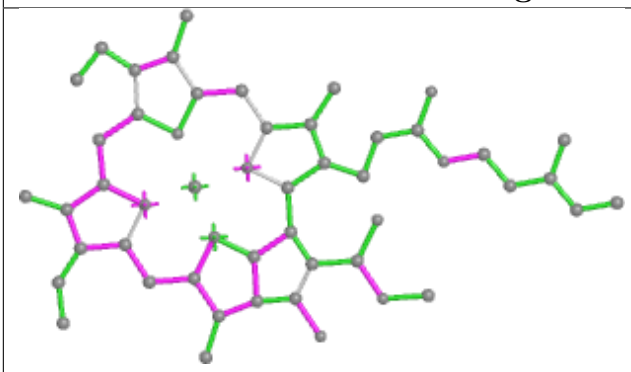


Rings

Ligand CLA A 1141



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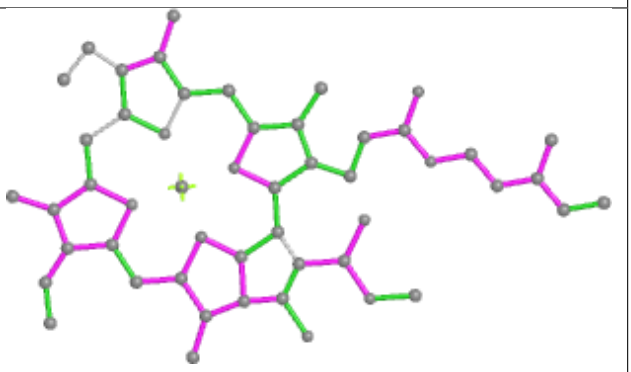
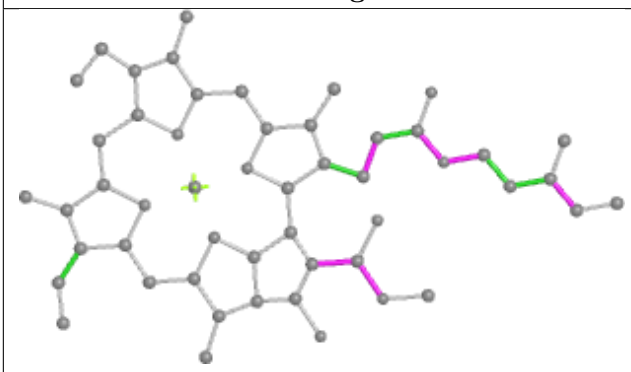


Bond angles



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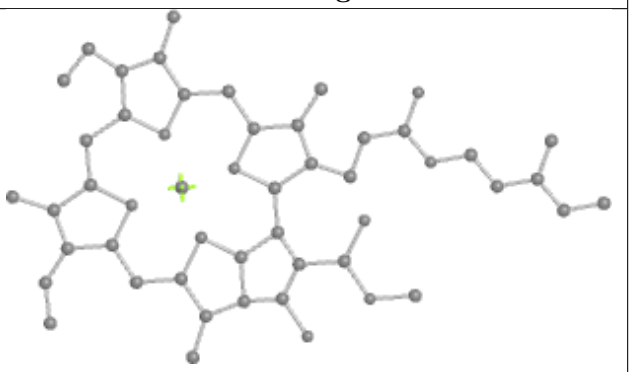
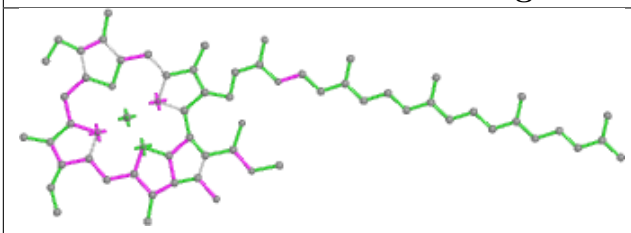


Rings

Ligand CLA B 1223



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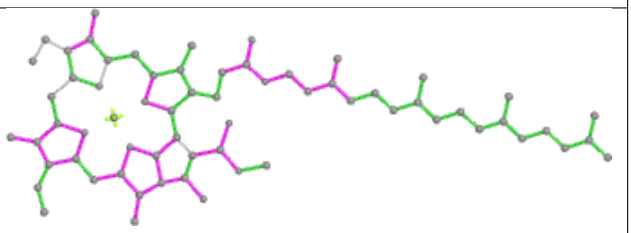
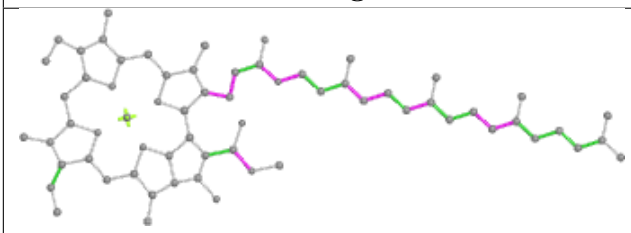


Bond angles



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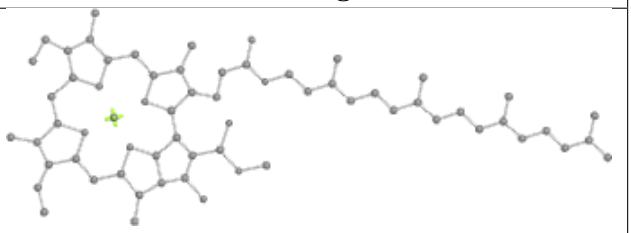
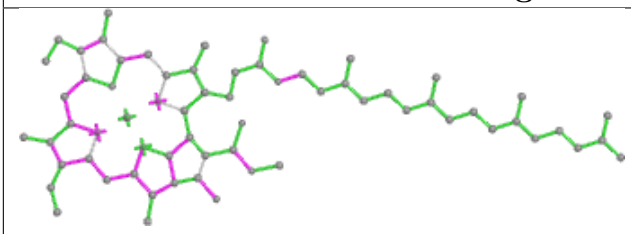
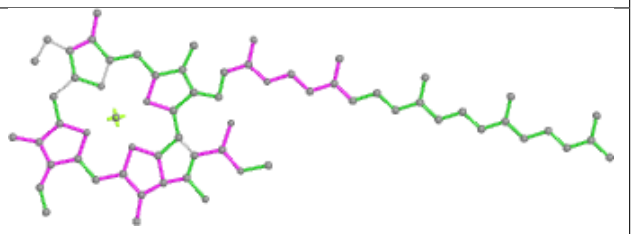
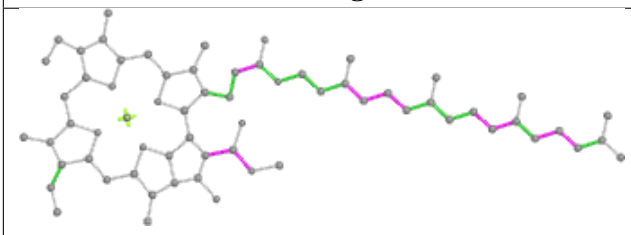
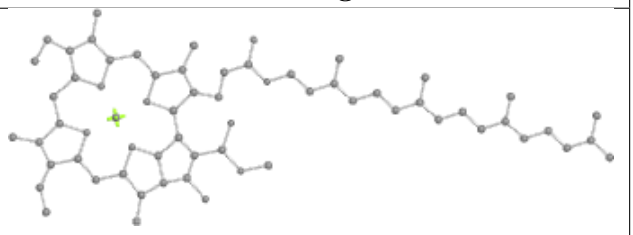


Rings

Ligand CLA B 1205	
 Bond lengths	 Bond angles
 Torsions	 Rings

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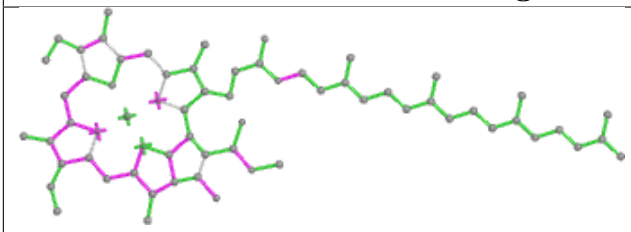
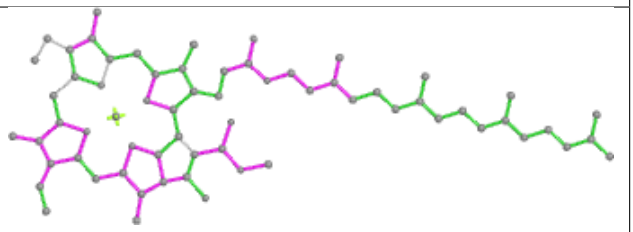
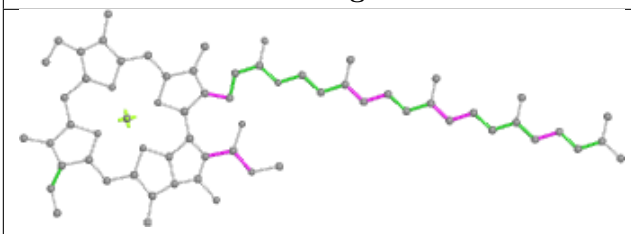
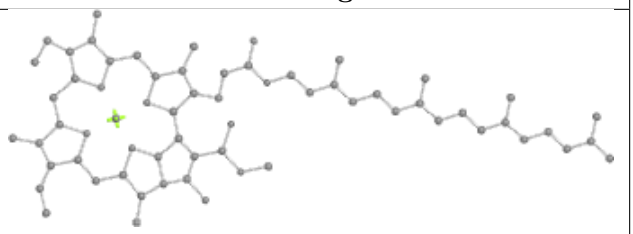
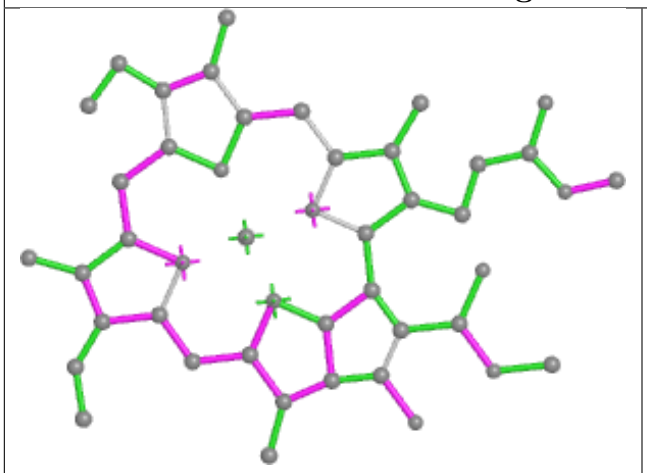
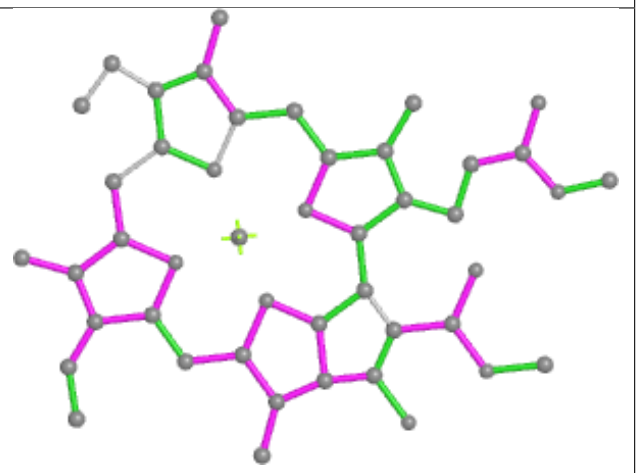
 Bond lengths	 Bond angles
 Torsions	 Rings

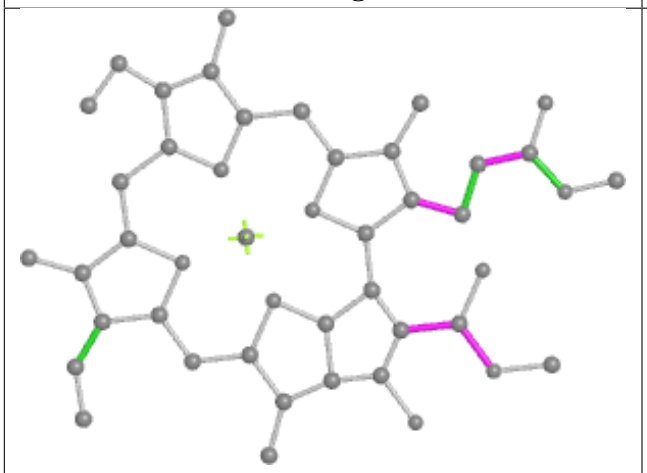
Ligand CLA H 1000



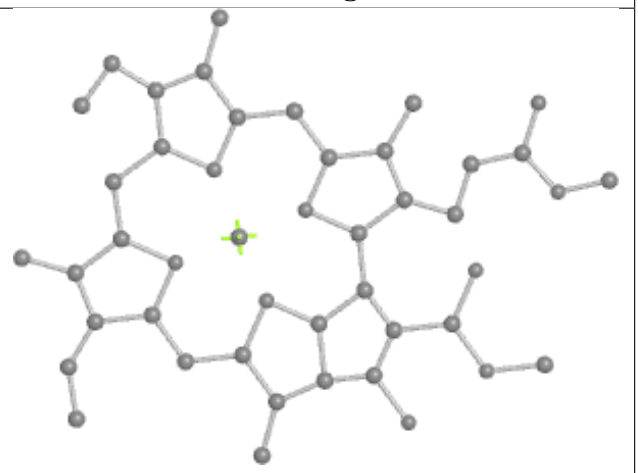
Bond lengths



Bond angles

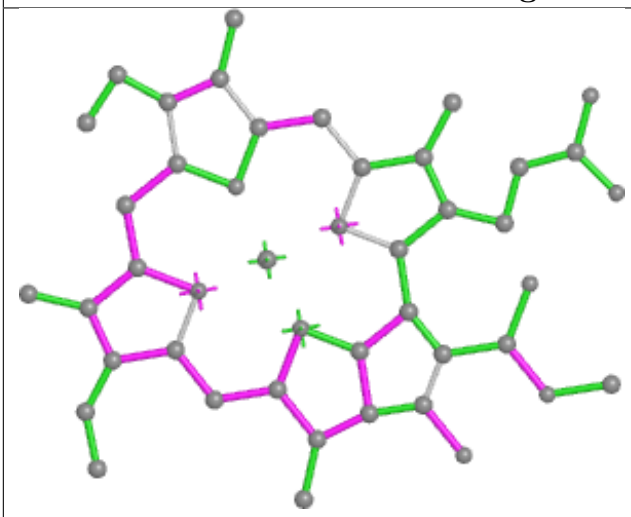


Torsions



Rings

Ligand CLA 3 3015



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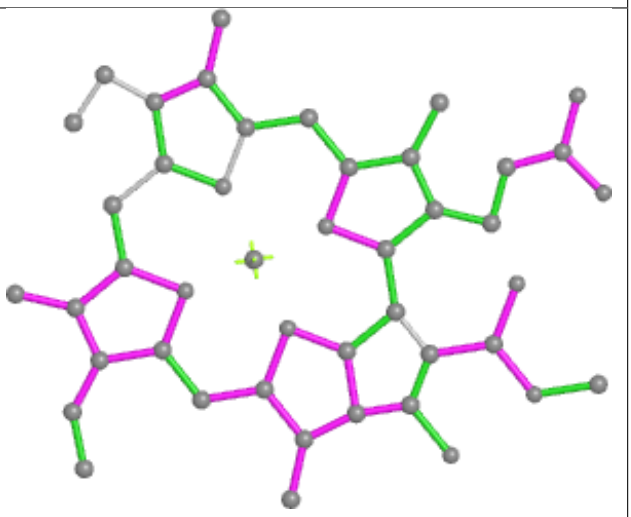

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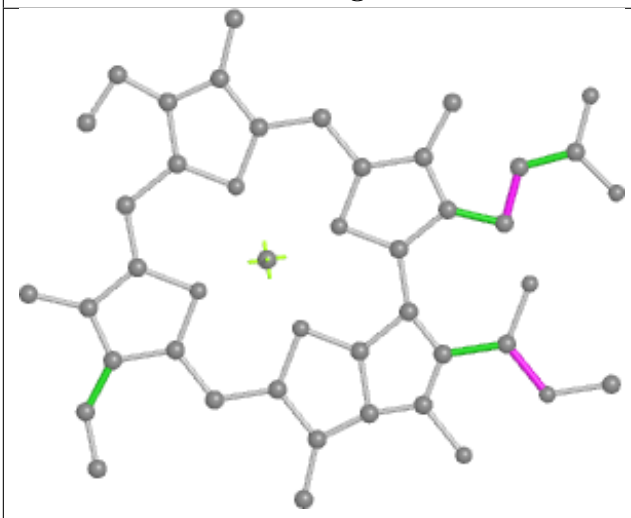

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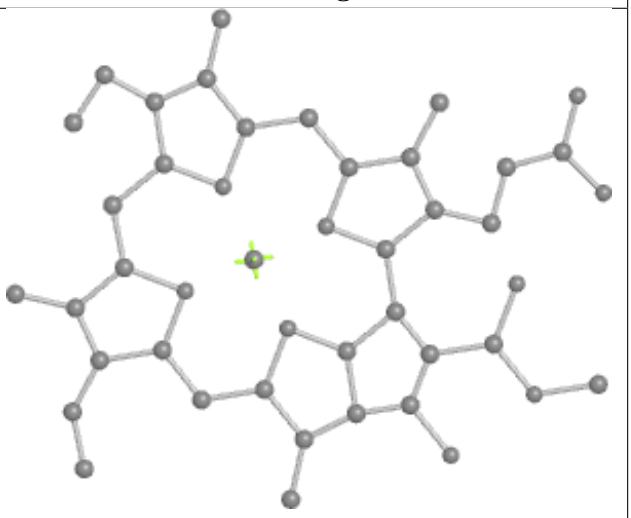
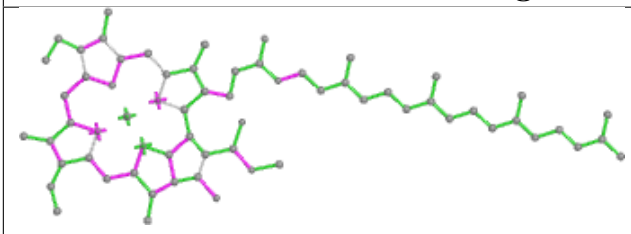


Rings

Ligand CLA A 9012



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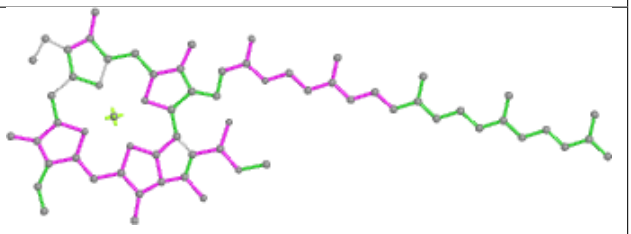
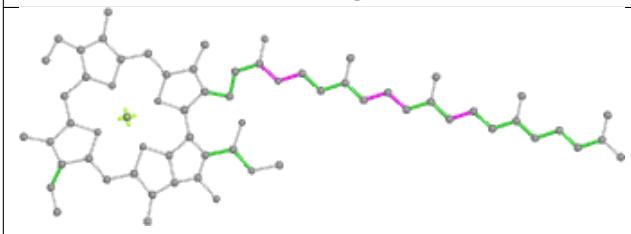


Bond angles



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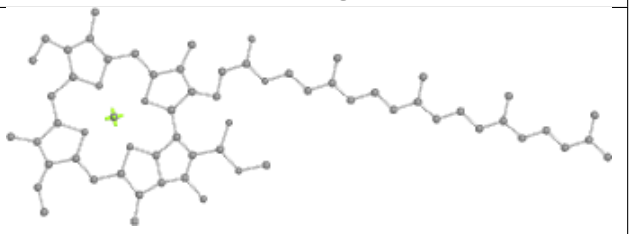
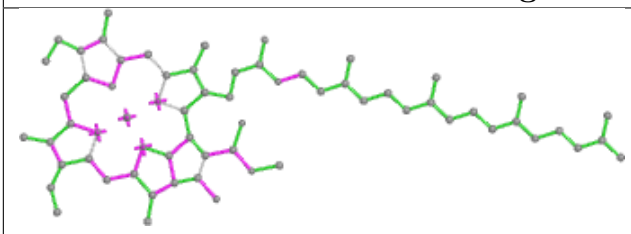


Rings

Ligand CLA 1 1009



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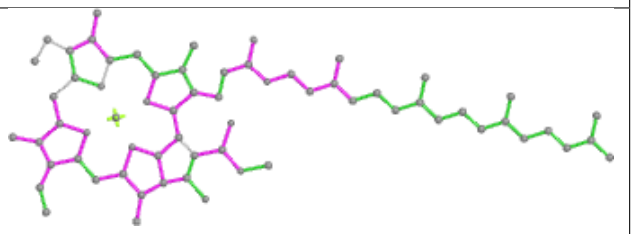
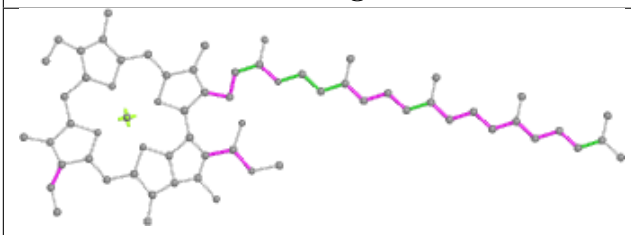


Bond angles



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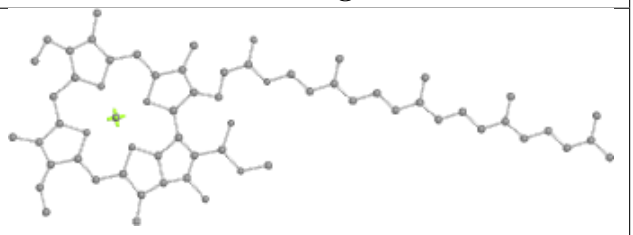
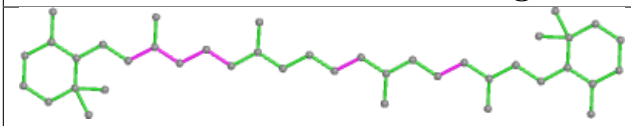


Rings

Ligand BCR A 6002



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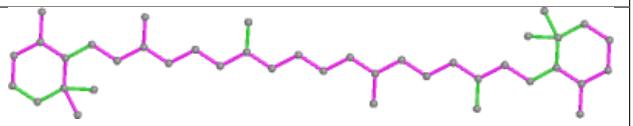
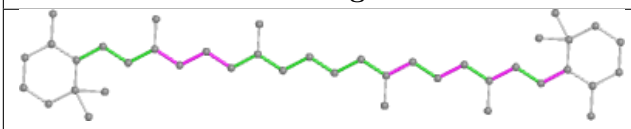


Bond angles



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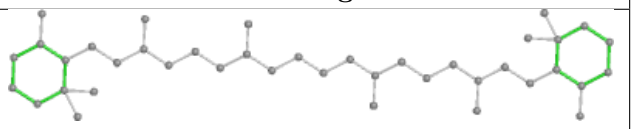
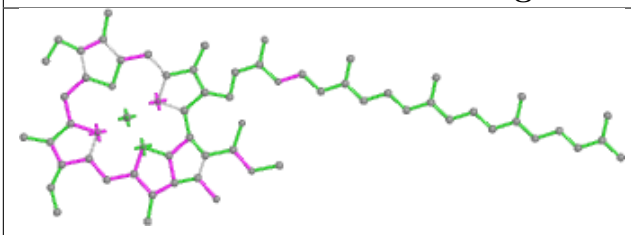


Rings

Ligand CLA A 1136



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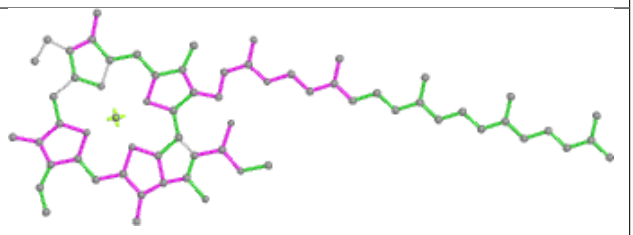
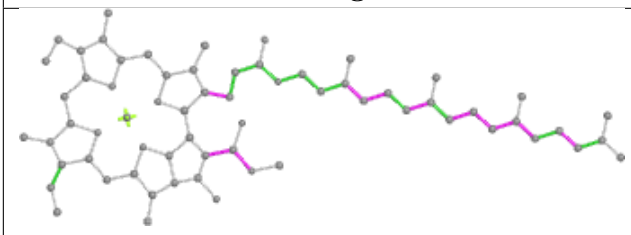
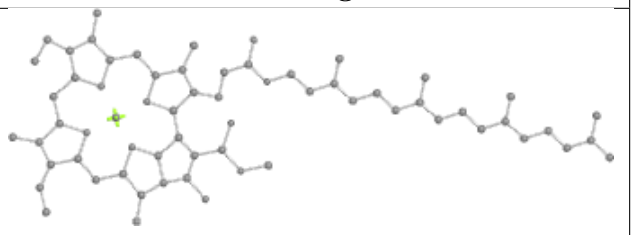


Bond angles

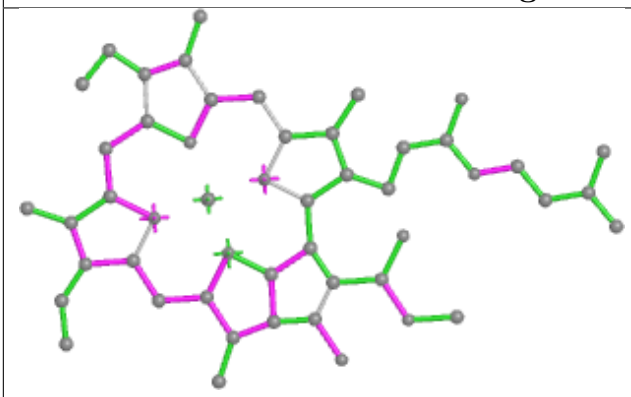


Torsions

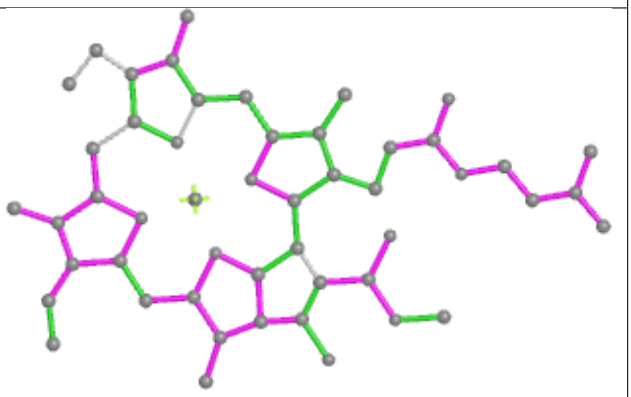


Rings

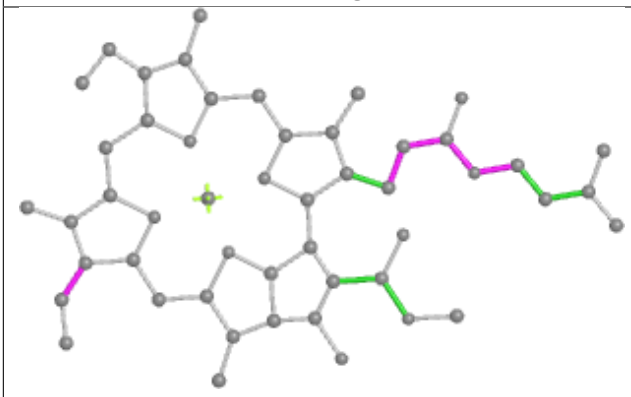
Ligand CLA 3 3013



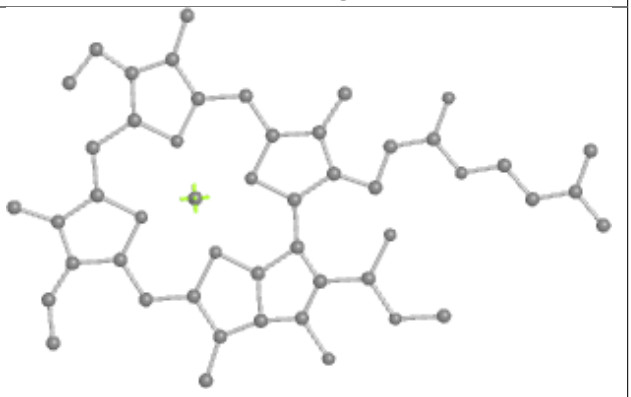
Bond lengths



Bond angles

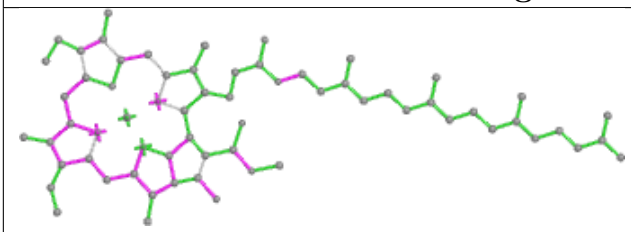


Torsions



Rings

Ligand CLA A 1139



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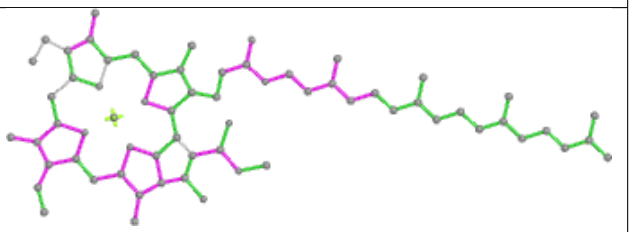
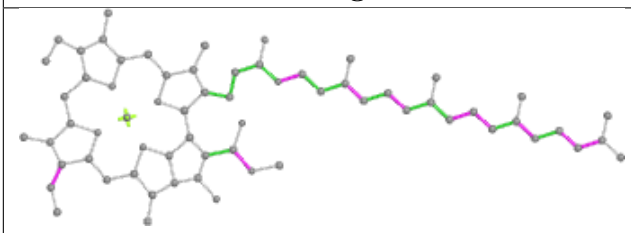
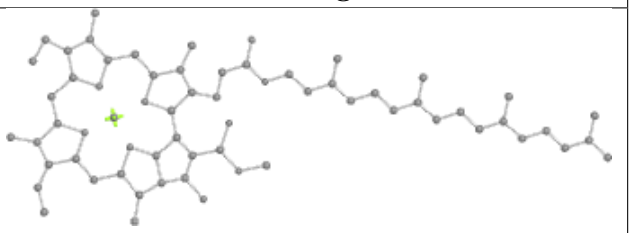


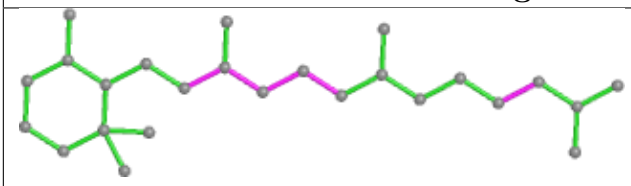
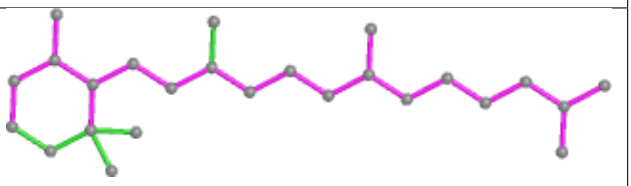
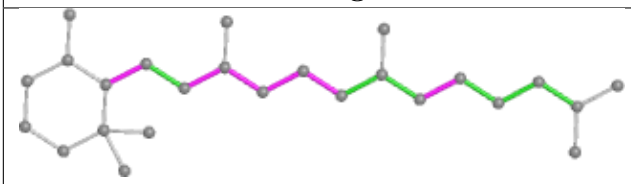
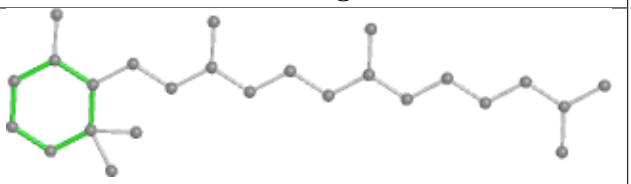
Bond angles



Torsions



Rings

Ligand BCR B 6011	
 Bond lengths	 Bond angles
 Torsions	 Rings

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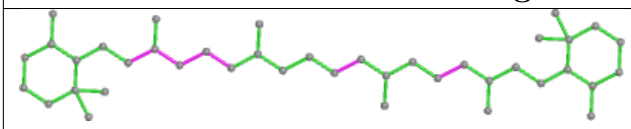
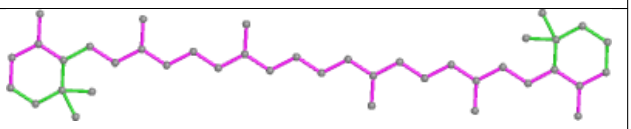
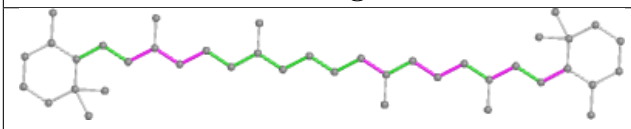
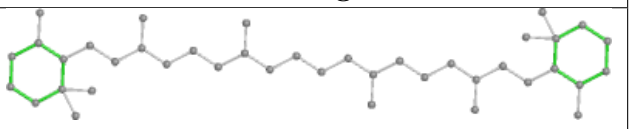
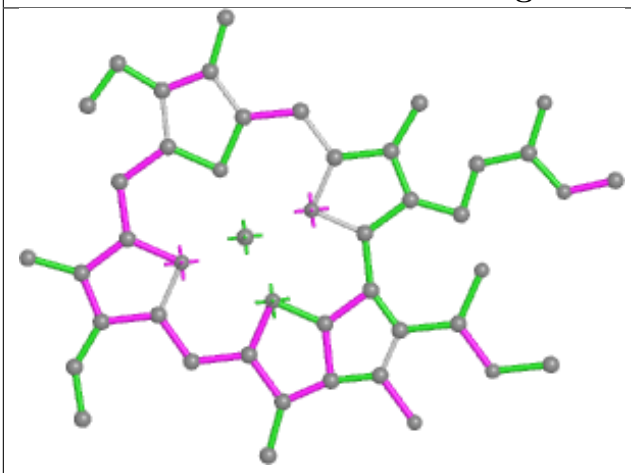
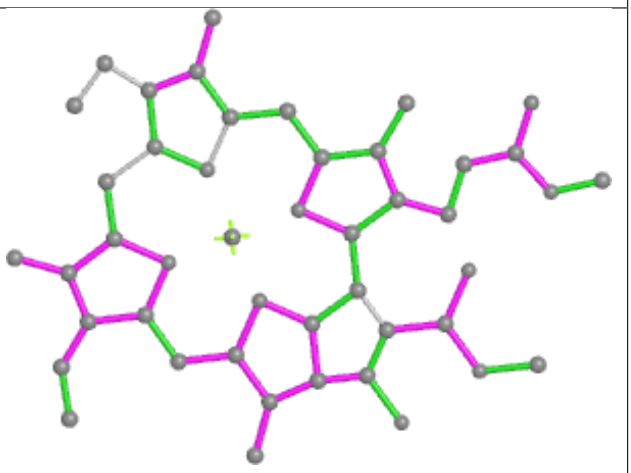
 Bond lengths	 Bond angles
 Torsions	 Rings

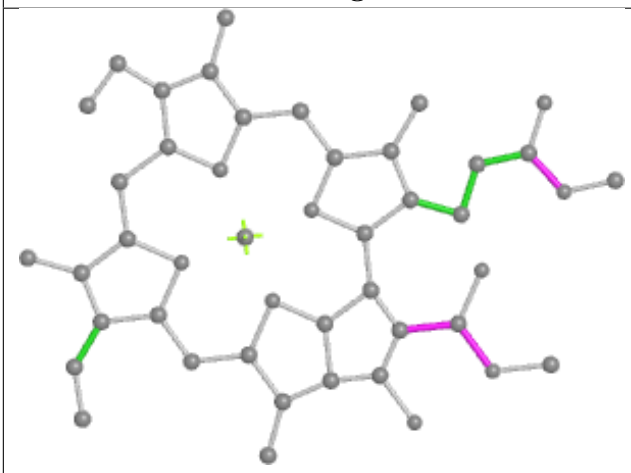
Ligand CLA B 1201



Bond lengths



Bond angles



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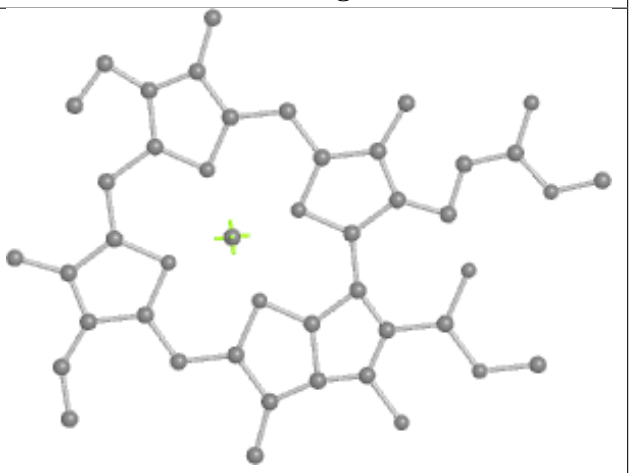
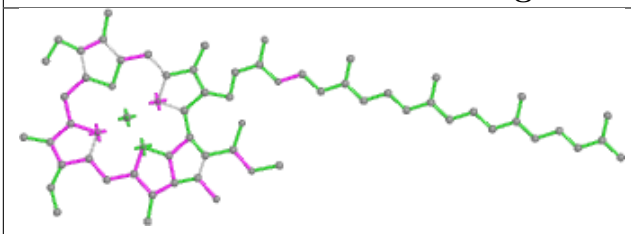


Rings

Ligand CLA A 1126



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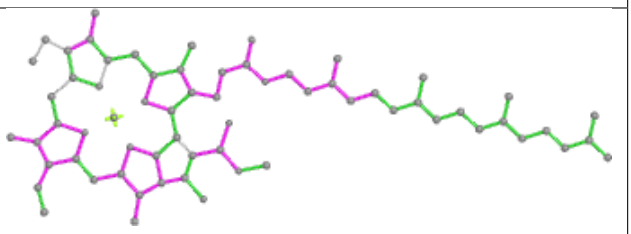
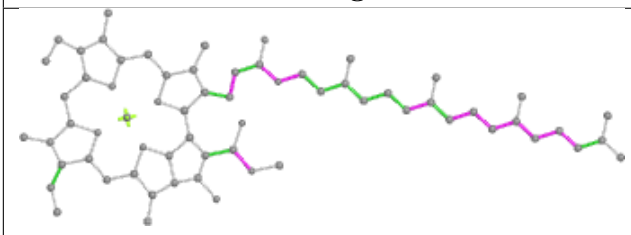


Bond angles



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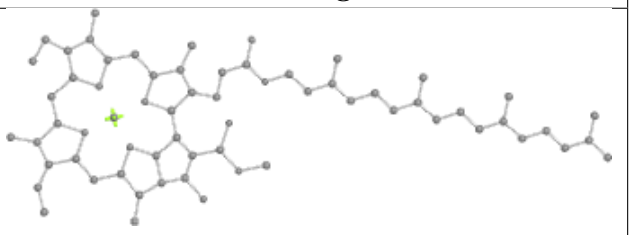
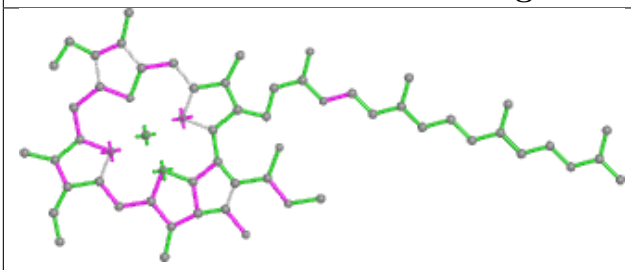
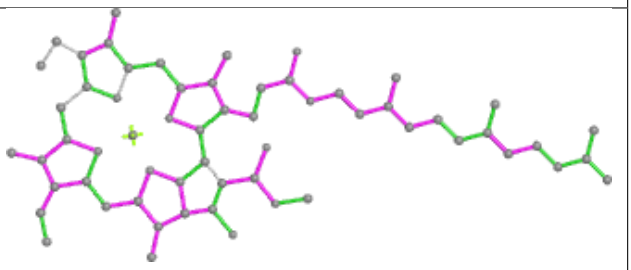
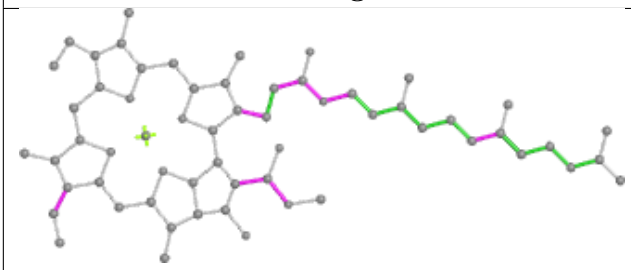
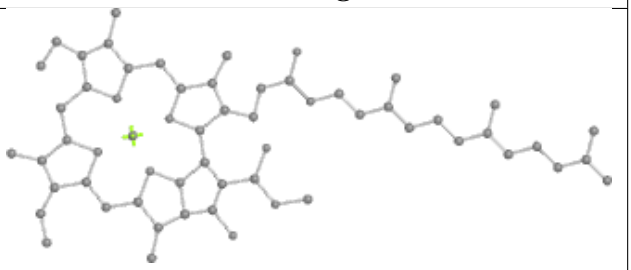
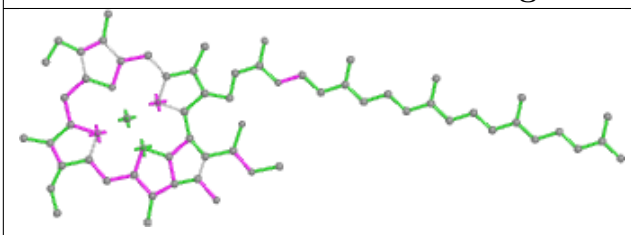
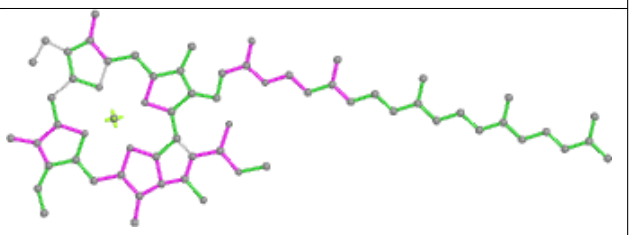
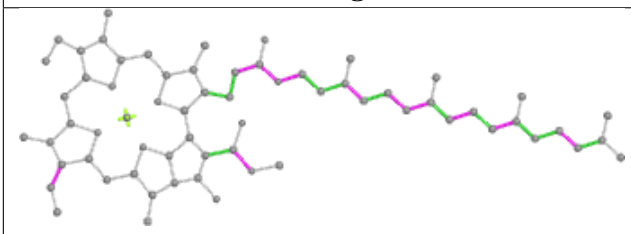
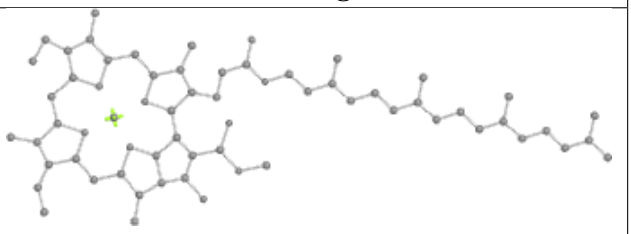
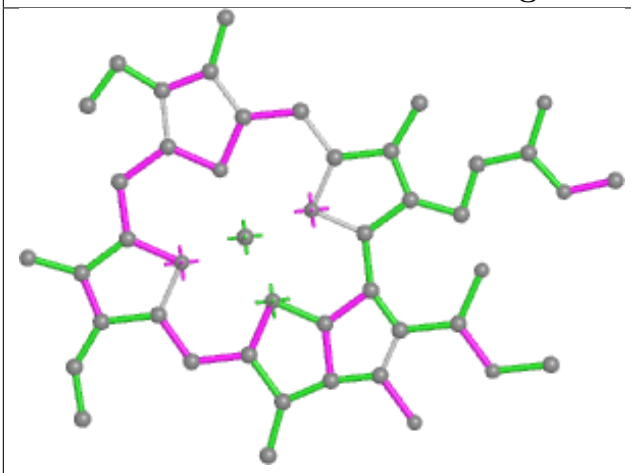


Rings

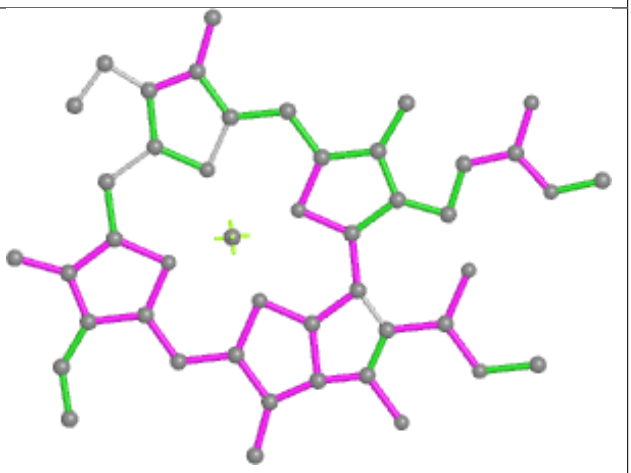
Ligand CLA B 1213	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA 4 4007	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand CLA 4 4015



Bond lengths



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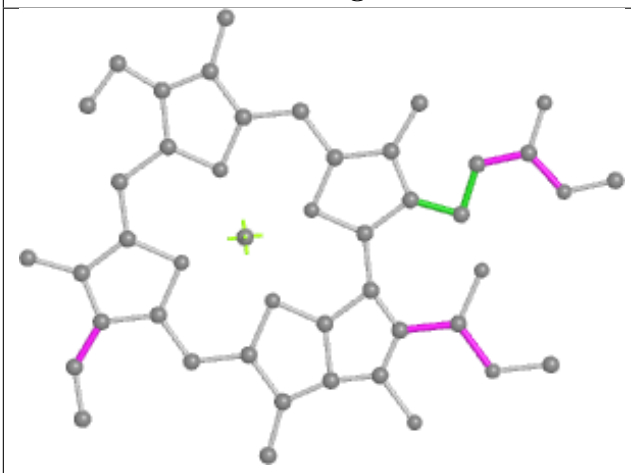

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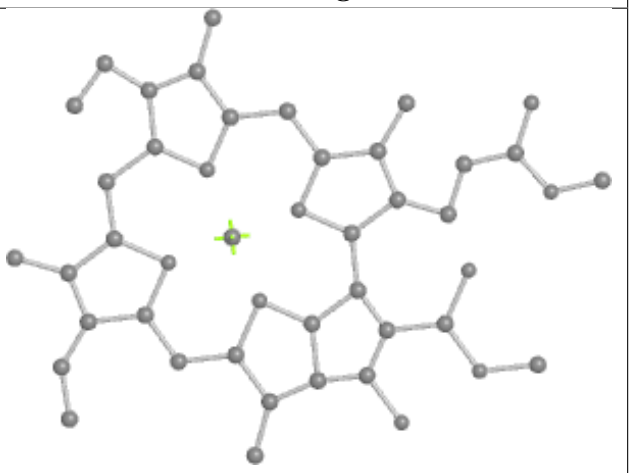
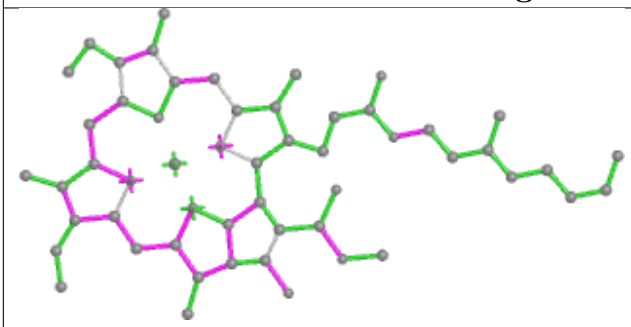


Rings

Ligand CLA B 1221



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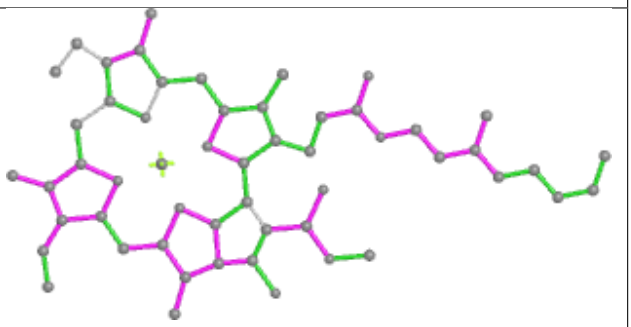
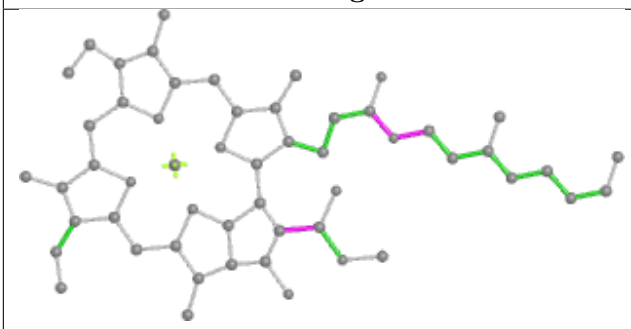


Bond angles



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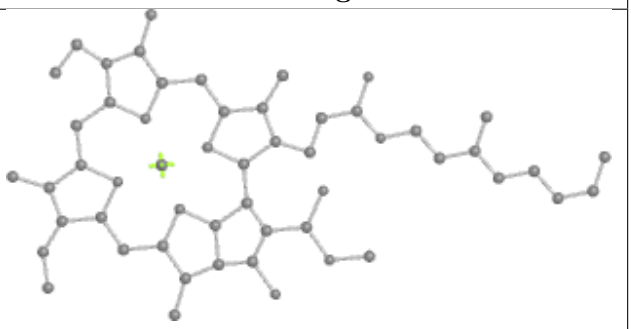
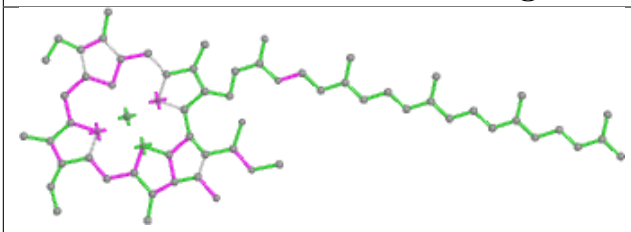


Rings

Ligand CLA 1 1010



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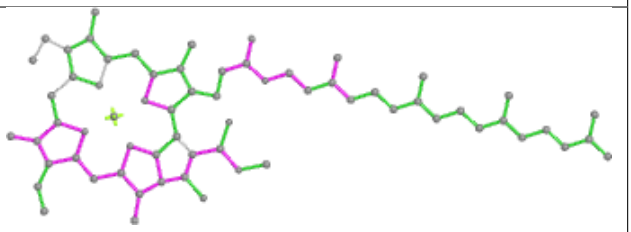

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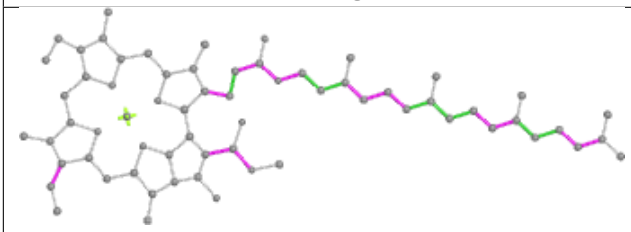

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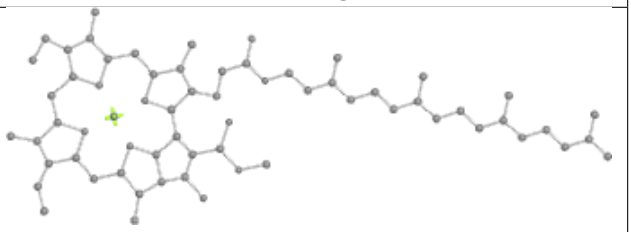
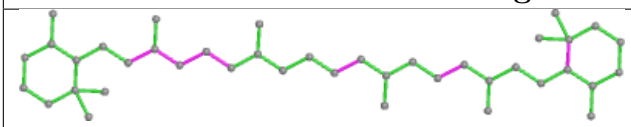


Rings

Ligand BCR B 6004



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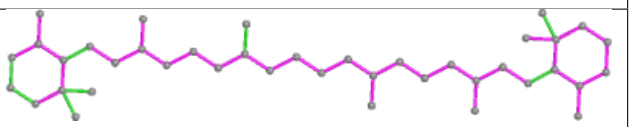
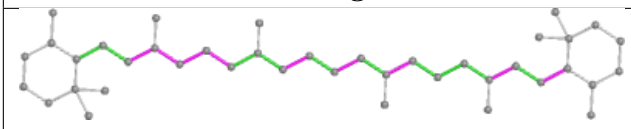


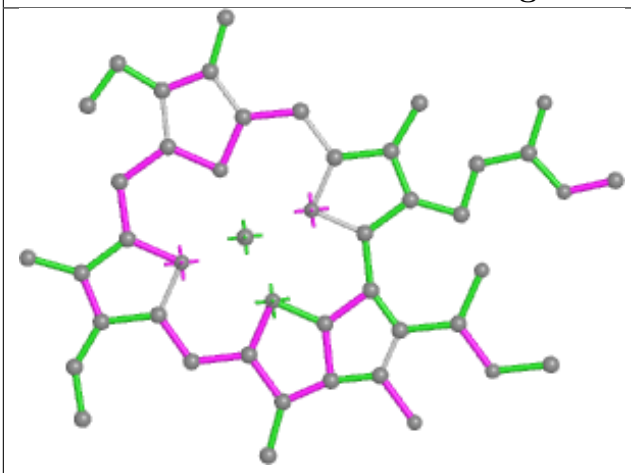
Bond angles



Torsions

Rings

Ligand CLA 3 3009



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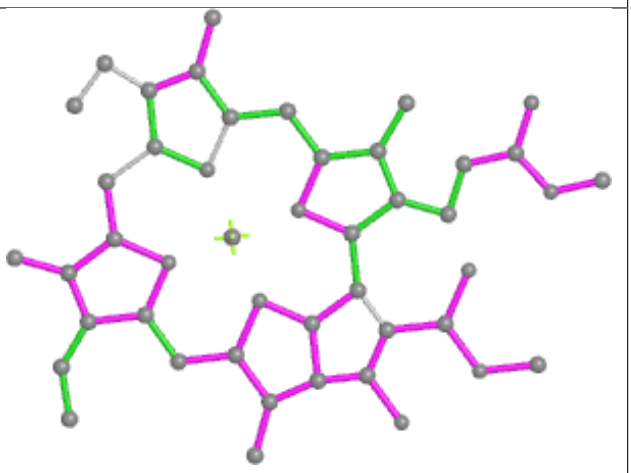
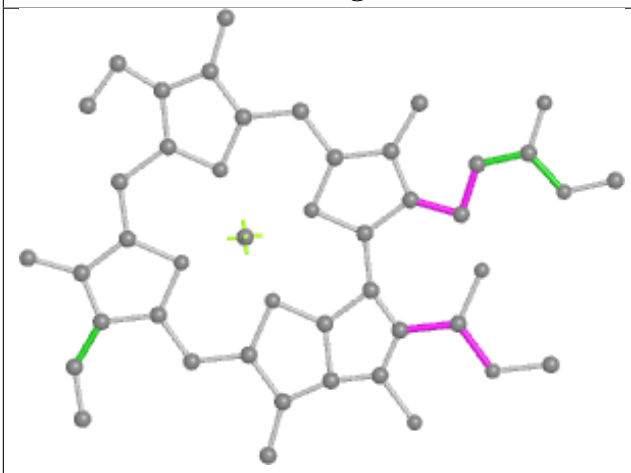
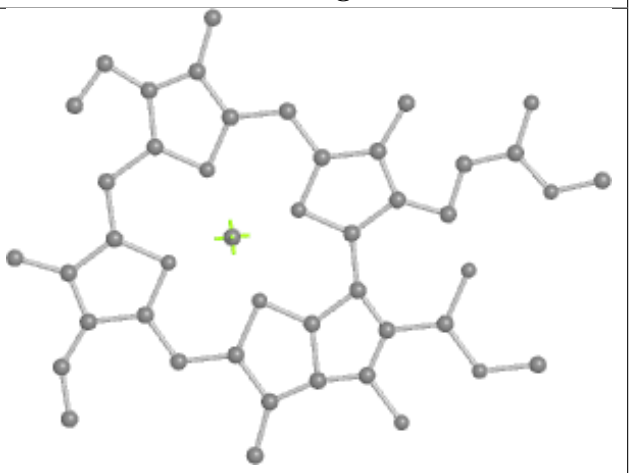


Bond angles

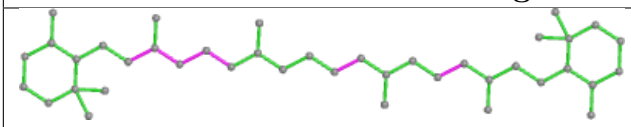


Torsions

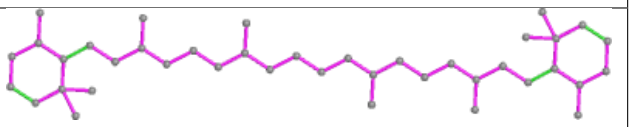


Rings

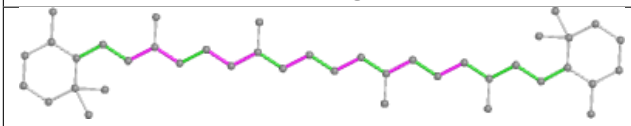
Ligand BCR A 6008



Bond lengths



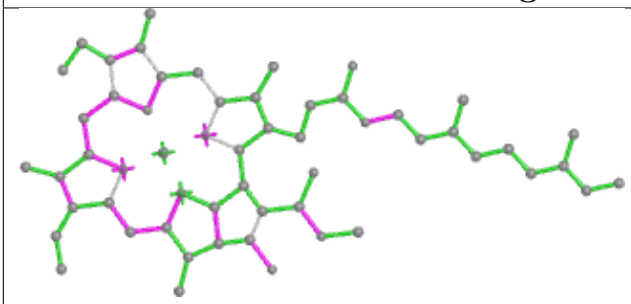
Bond angles



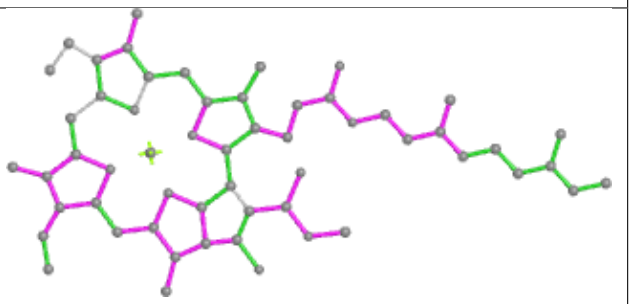
Torsions

Rings

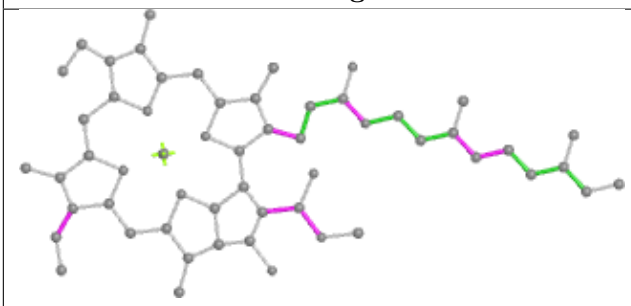
Ligand CLA 1 1002



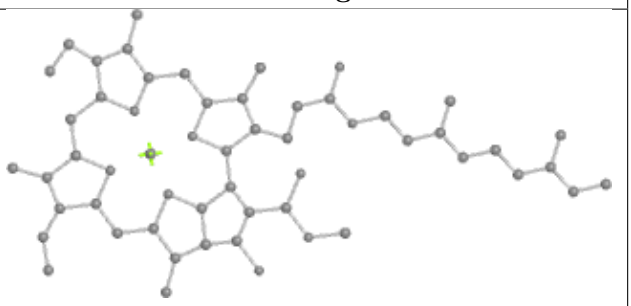
Bond lengths



Bond angles

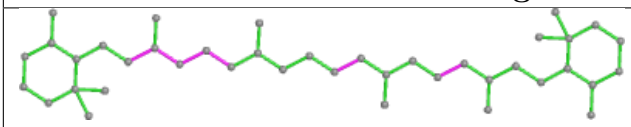


Torsions

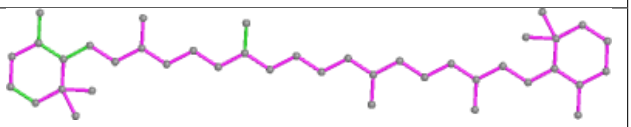


Rings

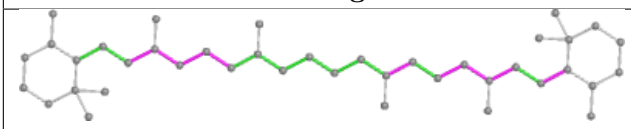
Ligand BCR A 6011



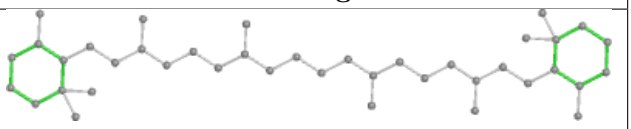
Bond lengths



Bond angles

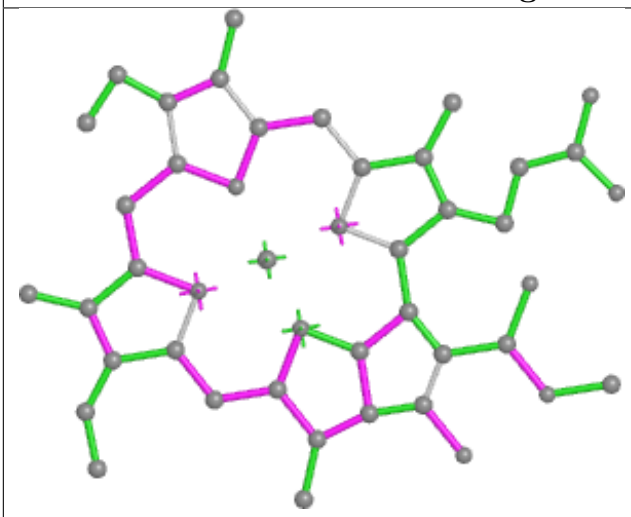


Torsions



Rings

Ligand CLA 3 3012



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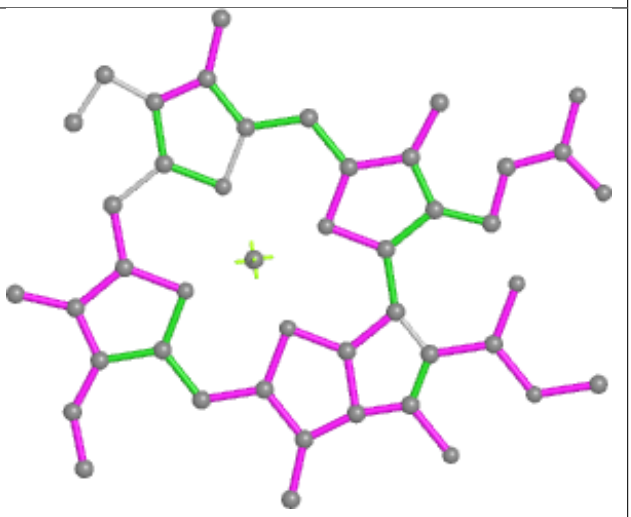
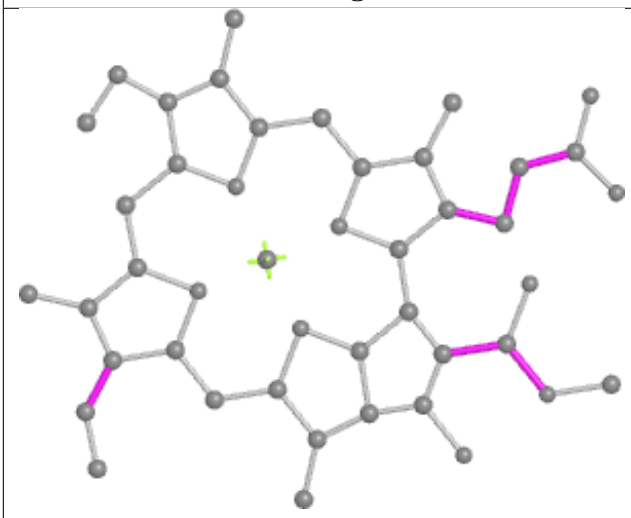
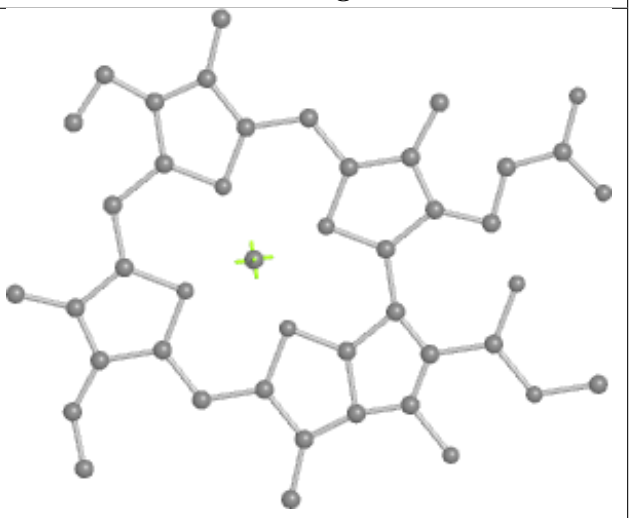


Bond angles

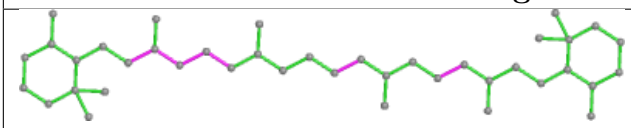


Torsions

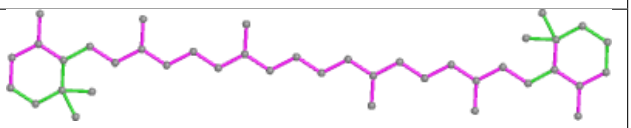


Rings

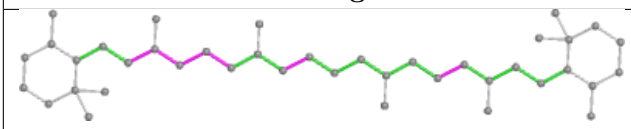
Ligand BCR A 6007



Bond lengths



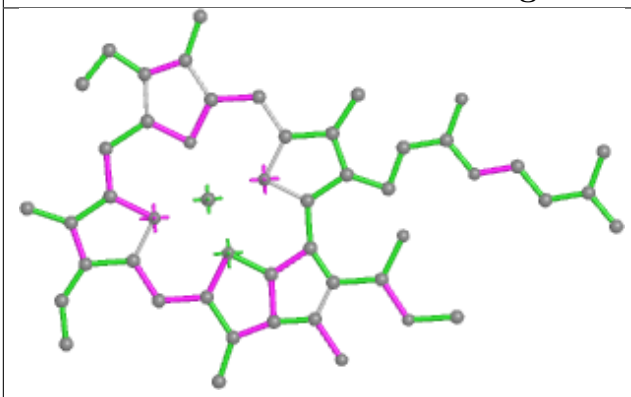
Bond angles



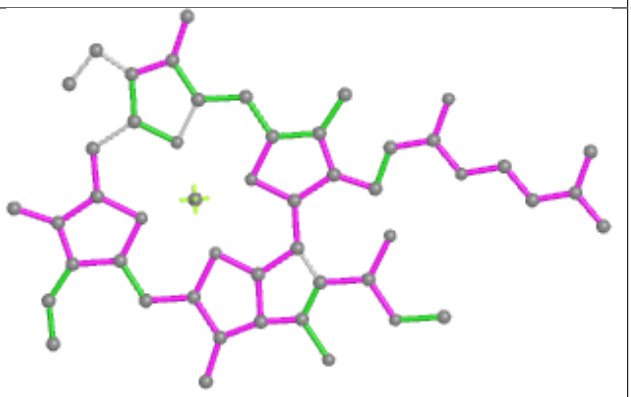
Torsions

Rings

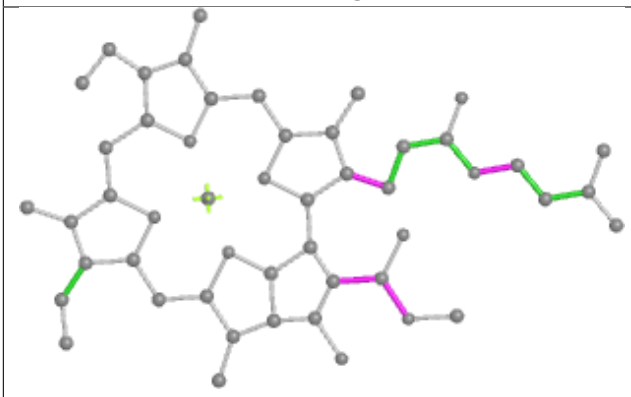
Ligand CLA 4 4010



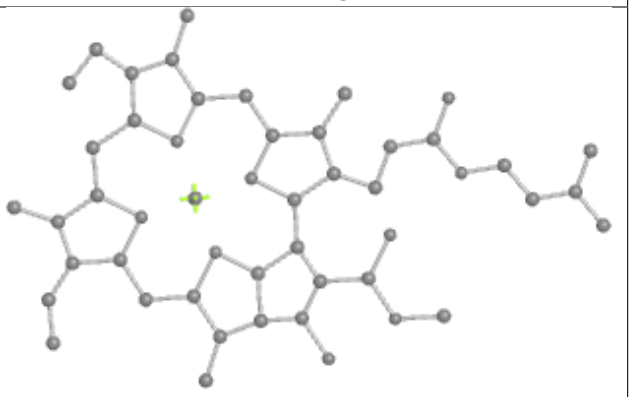
Bond lengths



Bond angles

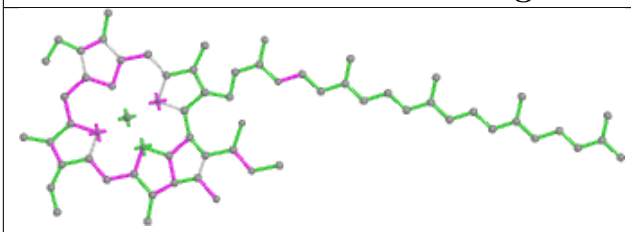


Torsions

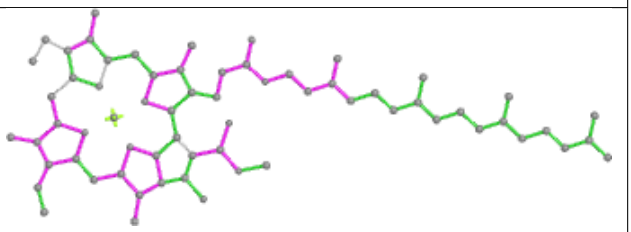


Rings

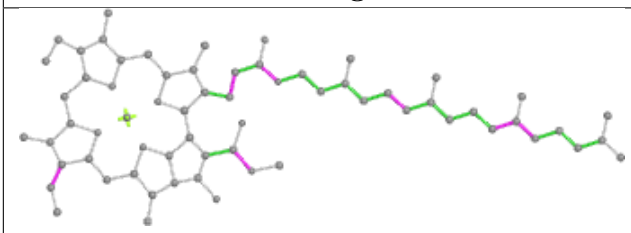
Ligand CLA A 1131



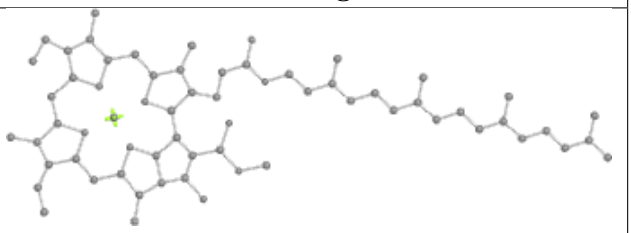
Bond lengths



Bond angles

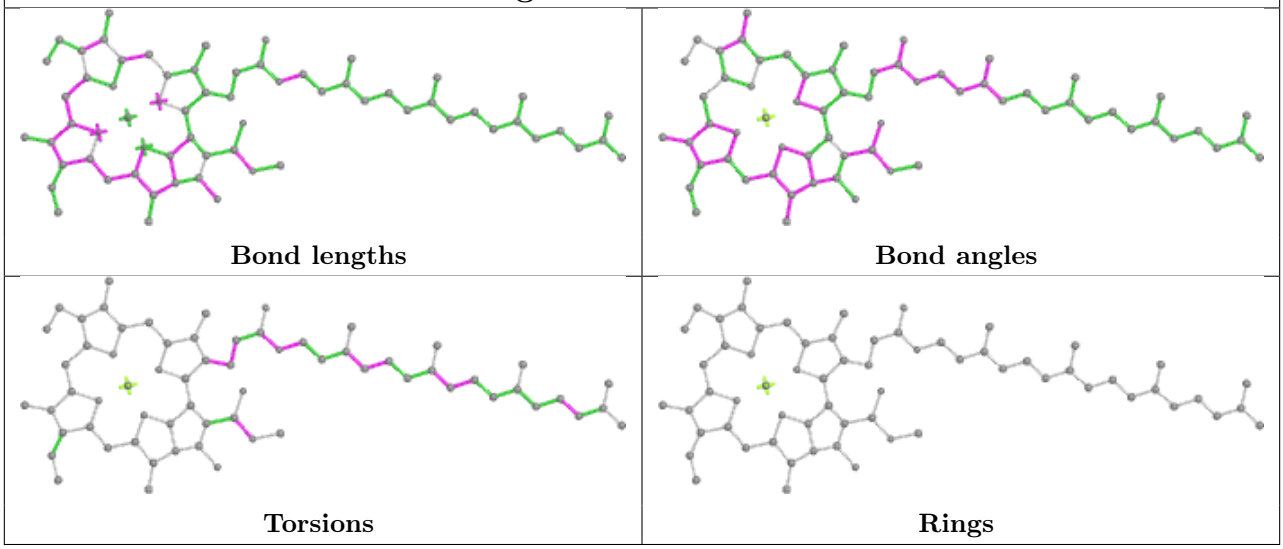


Torsions

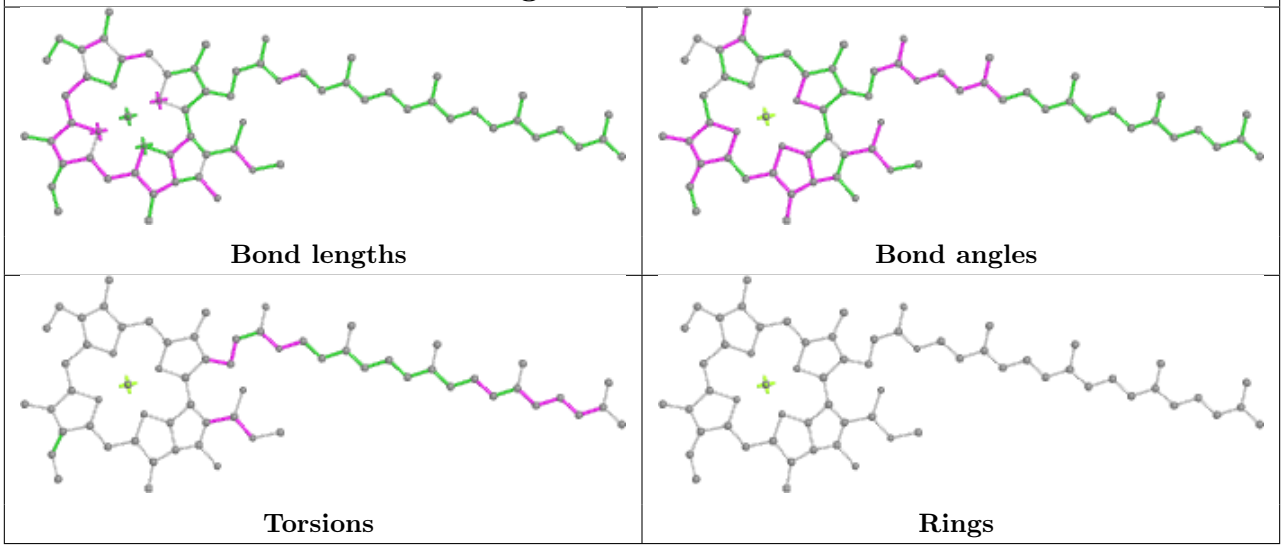


Rings

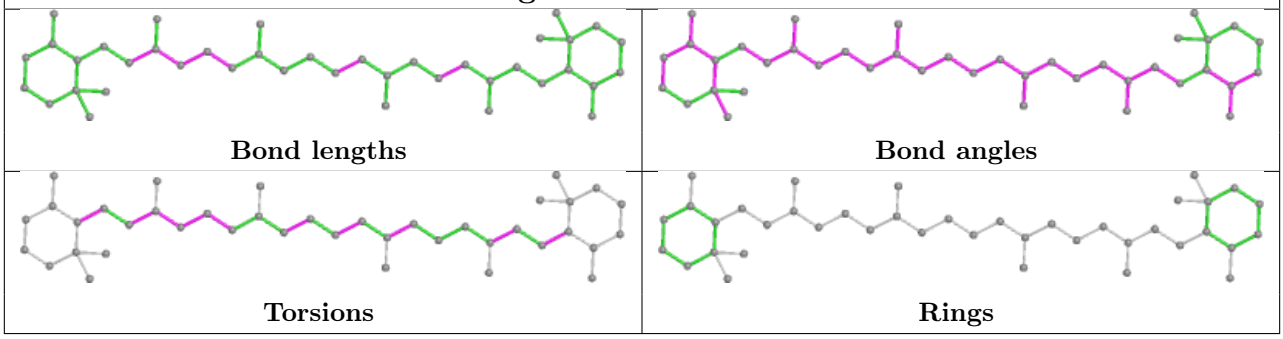
Ligand CLA B 1229



Ligand CLA 3 3006



Ligand BCR J 6013



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, 95th 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^2)	Q<0.9
1	A	721/721 (100%)	0.20	45 (6%) 20 7	34, 73, 146, 307	0
2	B	731/731 (100%)	0.01	37 (5%) 28 10	30, 58, 139, 288	0
3	C	80/80 (100%)	-0.07	1 (1%) 77 51	42, 62, 98, 112	0
4	D	137/137 (100%)	0.46	19 (13%) 2 1	52, 80, 137, 204	0
5	E	63/63 (100%)	1.03	15 (23%) 0 0	42, 86, 124, 170	0
6	F	152/152 (100%)	-0.25	4 (2%) 56 27	44, 73, 135, 225	0
7	G	84/84 (100%)	-0.19	2 (2%) 59 30	63, 98, 122, 147	0
8	H	82/82 (100%)	0.49	5 (6%) 21 7	57, 97, 150, 184	0
9	I	26/26 (100%)	0.34	2 (7%) 13 4	47, 68, 91, 112	0
10	J	40/40 (100%)	-0.59	0 100 100	47, 69, 110, 138	0
11	K	66/72 (91%)	4.11	42 (63%) 0 0	171, 246, 287, 303	0
12	L	163/163 (100%)	-0.12	4 (2%) 57 29	51, 79, 157, 195	0
13	N	85/85 (100%)	2.74	45 (52%) 0 0	177, 228, 289, 321	0
14	1	171/182 (93%)	0.42	22 (12%) 3 1	63, 103, 176, 315	0
15	2	146/199 (73%)	0.80	30 (20%) 1 0	74, 125, 214, 316	0
16	3	151/275 (54%)	1.50	43 (28%) 0 0	109, 193, 274, 335	0
17	4	196/196 (100%)	0.18	11 (5%) 24 8	59, 93, 182, 301	0
All	All	3094/3288 (94%)	0.38	327 (10%) 6 2	30, 80, 228, 335	0

All (327) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
11	K	102	THR	19.1
14	1	152	GLU	15.9
1	A	43	THR	15.1
16	3	265	VAL	15.0

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Mol	Chain	Res	Type	RSRZ
15	2	76	THR	14.3
1	A	42	ARG	13.4
13	N	115	ALA	12.8
17	4	123	ASN	12.5
2	B	486	LEU	11.1
15	2	75	SER	11.1
11	K	62	THR	10.8
11	K	65	LEU	10.6
13	N	170	TRP	10.4
14	1	222	TRP	10.4
11	K	60	SER	10.2
16	3	264	PRO	9.8
2	B	487	ASN	9.7
2	B	488	ALA	9.3
11	K	63	LEU	9.0
2	B	483	SER	9.0
16	3	226	LEU	8.7
11	K	56	ILE	8.6
13	N	116	ARG	8.6
11	K	100	GLY	8.6
16	3	223	GLU	8.5
11	K	59	ALA	8.5
11	K	68	GLY	8.4
13	N	110	SER	8.4
16	3	259	ASP	8.3
11	K	103	LEU	8.3
11	K	55	VAL	8.3
15	2	131	THR	8.3
15	2	249	GLY	8.1
11	K	101	PHE	8.1
11	K	64	MET	8.0
13	N	129	GLU	7.8
13	N	114	PHE	7.7
11	K	53	THR	7.7
15	2	74	GLY	7.7
16	3	154	ALA	7.5
2	B	480	SER	7.5
13	N	134	CYS	7.4
14	1	103	GLY	7.1
13	N	169	LYS	7.1
13	N	144	PRO	7.0
2	B	482	ASN	6.9

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Mol	Chain	Res	Type	RSRZ
5	E	67	GLY	6.8
2	B	470	THR	6.7
14	1	114	LEU	6.7
13	N	113	ASN	6.6
16	3	263	ASP	6.5
16	3	250	GLY	6.4
11	K	111	THR	6.4
13	N	125	CYS	6.3
2	B	214	ASP	6.3
1	A	630	ASP	6.3
11	K	47	ASP	6.1
17	4	124	VAL	6.1
11	K	77	ASN	6.1
13	N	136	ASP	5.9
1	A	160	SER	5.9
17	4	120	GLY	5.9
11	K	52	SER	5.9
17	4	193	PRO	5.8
11	K	116	ILE	5.8
16	3	151	ASN	5.6
11	K	58	VAL	5.5
16	3	222	LYS	5.4
15	2	64	ALA	5.3
16	3	225	LYS	5.3
16	3	93	THR	5.3
16	3	256	ASN	5.2
14	1	151	MET	5.2
13	N	128	PRO	5.1
1	A	257	GLN	5.0
13	N	126	LYS	5.0
16	3	224	LEU	5.0
16	3	220	SER	5.0
11	K	107	LEU	5.0
13	N	87	VAL	4.9
1	A	41	SER	4.9
16	3	249	THR	4.9
14	1	131	LEU	4.8
11	K	51	SER	4.8
2	B	502	ASN	4.8
4	D	76	ASP	4.8
2	B	489	GLY	4.8
13	N	149	ASP	4.7

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Mol	Chain	Res	Type	RSRZ
11	K	104	ALA	4.7
4	D	183	GLN	4.7
2	B	478	LEU	4.7
16	3	262	ALA	4.7
5	E	65	PRO	4.6
11	K	112	VAL	4.6
11	K	54	ASN	4.6
13	N	127	PHE	4.6
13	N	141	LYS	4.5
13	N	97	ALA	4.5
11	K	70	PHE	4.4
16	3	210	ASN	4.4
16	3	252	GLY	4.4
15	2	127	PRO	4.4
13	N	130	ASN	4.3
13	N	100	GLU	4.3
1	A	352	THR	4.3
4	D	81	SER	4.3
5	E	66	ILE	4.3
4	D	184	GLY	4.3
15	2	63	VAL	4.2
15	2	154	ASP	4.2
1	A	40	PHE	4.2
11	K	67	ALA	4.2
2	B	485	ALA	4.1
2	B	215	VAL	4.1
2	B	210	ASN	4.1
13	N	137	LEU	4.1
16	3	122	ALA	4.1
13	N	108	ALA	4.0
15	2	69	PRO	4.0
14	1	217	HIS	4.0
16	3	253	PRO	4.0
2	B	241	ASN	4.0
4	D	75	LEU	4.0
13	N	99	LYS	3.9
16	3	202	ALA	3.9
1	A	69	SER	3.9
13	N	122	PHE	3.9
1	A	348	GLU	3.9
8	H	135	PRO	3.9
4	D	74	GLU	3.8

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Mol	Chain	Res	Type	RSRZ
2	B	484	PRO	3.8
11	K	57	MET	3.8
5	E	95	GLN	3.8
13	N	162	CYS	3.8
15	2	77	PRO	3.8
5	E	73	LYS	3.8
8	H	131	GLY	3.8
15	2	84	SER	3.8
13	N	148	GLU	3.7
6	F	187	ASP	3.7
1	A	46	LYS	3.7
15	2	247	TYR	3.7
2	B	479	SER	3.6
17	4	196	PHE	3.6
2	B	501	ILE	3.6
13	N	163	GLY	3.6
16	3	211	PRO	3.6
11	K	61	THR	3.6
11	K	48	PHE	3.6
5	E	72	ALA	3.6
2	B	492	ILE	3.6
11	K	106	THR	3.6
13	N	112	ALA	3.6
2	B	475	ASP	3.5
15	2	65	GLU	3.5
13	N	109	THR	3.5
11	K	89	ARG	3.5
16	3	255	GLN	3.4
13	N	111	GLY	3.4
1	A	245	PRO	3.4
13	N	96	LYS	3.4
16	3	130	GLY	3.4
11	K	88	ALA	3.4
11	K	113	GLY	3.4
15	2	83	GLY	3.4
4	D	127	PRO	3.3
8	H	117	PHE	3.3
1	A	502	THR	3.3
14	1	150	SER	3.3
14	1	128	TRP	3.3
13	N	132	THR	3.3
16	3	149	THR	3.3

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Mol	Chain	Res	Type	RSRZ
11	K	105	ASP	3.3
4	D	156	TYR	3.3
16	3	209	PHE	3.3
1	A	265	GLY	3.3
15	2	66	PRO	3.3
7	G	88	ALA	3.2
16	3	203	TYR	3.2
16	3	260	HIS	3.2
11	K	66	PHE	3.2
2	B	213	LEU	3.2
13	N	117	ALA	3.2
2	B	507	SER	3.1
3	C	34	CYS	3.1
4	D	79	THR	3.0
11	K	109	CYS	3.0
13	N	140	GLN	3.0
16	3	219	LYS	3.0
15	2	248	THR	3.0
14	1	110	GLU	3.0
2	B	211	ASN	3.0
13	N	106	ARG	3.0
1	A	426	THR	3.0
1	A	641	ASN	3.0
16	3	178	TRP	3.0
14	1	147	HIS	3.0
1	A	38	GLY	2.9
13	N	93	GLU	2.9
12	L	170	LYS	2.9
1	A	635	THR	2.9
1	A	67	HIS	2.9
1	A	629	ASN	2.9
13	N	95	SER	2.9
1	A	427	ARG	2.9
2	B	342	GLY	2.9
4	D	73	PRO	2.8
15	2	155	THR	2.8
13	N	143	VAL	2.8
2	B	490	ARG	2.8
15	2	70	LEU	2.8
4	D	77	PRO	2.8
15	2	68	ARG	2.7
15	2	130	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
16	3	230	LYS	2.7
5	E	68	PRO	2.7
2	B	504	ASN	2.7
16	3	153	TRP	2.7
1	A	628	ILE	2.7
2	B	505	SER	2.6
8	H	122	SER	2.6
15	2	82	ASP	2.6
16	3	155	ASP	2.6
4	D	78	ASN	2.6
5	E	74	VAL	2.6
15	2	91	PHE	2.6
1	A	244	LEU	2.6
1	A	323	ILE	2.6
5	E	94	ASP	2.6
6	F	227	VAL	2.6
13	N	168	TRP	2.6
14	1	134	ILE	2.6
1	A	631	GLN	2.5
5	E	126	GLU	2.5
14	1	174	PRO	2.5
15	2	242	TRP	2.5
14	1	107	LYS	2.5
15	2	179	ASN	2.5
14	1	92	PRO	2.5
15	2	67	ASP	2.5
1	A	506	GLY	2.5
11	K	117	GLY	2.5
5	E	99	THR	2.5
13	N	124	THR	2.5
4	D	171	ASP	2.5
1	A	501	GLY	2.5
2	B	481	THR	2.5
1	A	253	ASP	2.5
4	D	166	TYR	2.4
1	A	315	HIS	2.4
1	A	423	ASP	2.4
1	A	44	ILE	2.4
4	D	104	THR	2.4
1	A	339	THR	2.4
2	B	321	GLY	2.4
13	N	107	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
17	4	194	LEU	2.4
1	A	250	LEU	2.4
17	4	200	LEU	2.4
16	3	205	GLY	2.4
11	K	108	ALA	2.4
13	N	123	GLY	2.4
16	3	251	VAL	2.4
1	A	326	GLY	2.4
1	A	627	SER	2.4
2	B	346	SER	2.4
12	L	52	PRO	2.4
2	B	493	TRP	2.3
15	2	222	GLU	2.3
15	2	78	PRO	2.3
1	A	623	ASP	2.3
14	1	176	LYS	2.3
1	A	169	ILE	2.3
16	3	127	GLY	2.3
1	A	633	VAL	2.3
15	2	250	THR	2.3
16	3	204	PRO	2.3
1	A	559	GLY	2.3
17	4	69	GLY	2.3
16	3	207	PRO	2.2
13	N	145	PHE	2.2
1	A	505	PRO	2.2
16	3	248	VAL	2.2
6	F	228	ALA	2.2
2	B	476	VAL	2.2
5	E	102	PRO	2.2
6	F	226	LEU	2.2
1	A	45	ALA	2.2
17	4	207	ILE	2.2
2	B	477	LEU	2.2
4	D	82	PRO	2.2
2	B	472	TYR	2.2
14	1	148	GLN	2.2
2	B	473	GLY	2.2
14	1	153	LYS	2.2
1	A	340	GLY	2.2
9	I	26	LEU	2.1
16	3	216	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
15	2	85	LEU	2.1
5	E	86	GLY	2.1
11	K	96	GLY	2.1
2	B	222	LEU	2.1
4	D	158	VAL	2.1
1	A	68	THR	2.1
14	1	111	TRP	2.1
1	A	500	PRO	2.1
2	B	491	SER	2.1
11	K	49	ILE	2.1
5	E	71	GLY	2.1
16	3	221	LEU	2.1
11	K	78	ARG	2.1
8	H	119	THR	2.1
5	E	69	LYS	2.1
12	L	158	PRO	2.1
7	G	106	GLU	2.0
1	A	518	GLY	2.0
14	1	112	ALA	2.0
4	D	155	PHE	2.0
14	1	135	LEU	2.0
17	4	125	PRO	2.0
9	I	30	LYS	2.0
12	L	169	ARG	2.0
14	1	127	PRO	2.0
4	D	148	LYS	2.0
13	N	98	ASN	2.0
16	3	156	ASN	2.0
17	4	88	ASN	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, 95th 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^2)	Q<0.9
21	CLA	3	3015	45/65	0.31	1.25	250,262,271,285	0
21	CLA	3	3016	45/65	0.41	0.80	172,203,215,248	0
21	CLA	J	6015	55/65	0.49	0.31	122,143,159,160	0
21	CLA	3	3006	65/65	0.51	0.49	144,177,194,197	0
21	CLA	A	1143	46/65	0.52	0.85	198,214,217,262	0
21	CLA	3	3004	45/65	0.53	0.58	260,267,271,309	0
21	CLA	3	3014	45/65	0.53	0.66	242,261,265,271	0
21	CLA	1	1014	45/65	0.53	0.71	115,160,167,171	0
21	CLA	2	2006	57/65	0.54	0.30	140,162,183,256	0
21	CLA	4	4006	65/65	0.54	0.33	116,133,155,160	0
21	CLA	A	1142	44/65	0.55	0.31	186,199,202,274	0
21	CLA	4	4005	45/65	0.55	0.32	107,130,142,144	0
21	CLA	1	1006	47/65	0.55	0.51	116,133,148,152	0
19	BCR	J	6013	40/40	0.56	0.60	119,143,153,153	0
21	CLA	4	4007	65/65	0.56	0.39	103,123,140,244	0
21	CLA	3	3017	45/65	0.57	0.49	224,249,260,262	0
27	NEX	4	4503	44/44	0.57	0.68	72,110,128,133	0
21	CLA	2	2008	65/65	0.60	0.47	103,135,158,161	0
25	LMG	G	2021	23/55	0.61	0.34	160,168,177,180	0
21	CLA	J	6014	61/65	0.61	0.25	191,215,220,289	0
21	CLA	3	3003	60/65	0.62	0.58	190,224,234,252	0
21	CLA	2	2003	65/65	0.62	0.29	136,144,159,185	0
21	CLA	3	3001	65/65	0.66	0.38	187,204,220,223	0
21	CLA	3	3005	45/65	0.66	0.37	197,209,213,274	0
21	CLA	1	1013	65/65	0.66	0.72	94,119,138,148	0
21	CLA	3	3010	52/65	0.68	0.31	115,168,179,182	0
21	CLA	2	2014	45/65	0.70	0.23	104,135,145,168	0
19	BCR	B	6011	25/40	0.71	0.33	77,111,118,120	0
21	CLA	J	1302	61/65	0.71	0.33	59,117,149,153	0
21	CLA	3	3008	65/65	0.72	0.26	149,167,183,187	0
19	BCR	A	6003	40/40	0.72	0.46	80,97,123,124	0
21	CLA	3	3013	50/65	0.72	0.26	107,132,148,153	0
19	BCR	A	6002	40/40	0.72	0.48	72,103,133,133	0
21	CLA	A	1110	55/65	0.73	0.37	129,148,161,166	0
21	CLA	3	3002	55/65	0.73	0.52	181,189,204,206	0
26	LUT	2	2501	42/42	0.74	0.40	106,121,131,138	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
21	CLA	3	3011	46/65	0.75	0.31	131,154,160,195	0
21	CLA	1	1010	65/65	0.75	0.41	108,123,152,154	0
21	CLA	A	1120	46/65	0.76	0.52	97,128,144,149	0
19	BCR	A	6008	40/40	0.76	0.39	57,87,105,112	0
19	BCR	B	6005	40/40	0.79	0.35	51,69,122,123	0
19	BCR	B	6006	40/40	0.79	0.39	45,63,110,110	0
21	CLA	1	1009	65/65	0.79	0.28	58,78,104,108	0
21	CLA	3	3012	45/65	0.79	0.18	163,196,205,208	0
26	LUT	4	4501	42/42	0.79	0.42	77,95,99,107	0
20	LHG	2	2801	36/49	0.79	0.38	112,132,147,150	0
21	CLA	4	4001	65/65	0.80	0.56	73,91,124,131	0
19	BCR	B	6010	40/40	0.80	0.34	47,67,81,88	0
21	CLA	2	2010	65/65	0.80	0.30	103,118,134,151	0
19	BCR	A	6007	40/40	0.80	0.31	69,91,97,98	0
21	CLA	2	2002	60/65	0.81	0.32	112,142,151,201	0
21	CLA	3	3009	46/65	0.81	0.26	138,174,190,191	0
21	CLA	2	2009	46/65	0.81	0.30	82,101,128,141	0
21	CLA	2	2007	55/65	0.83	0.36	113,130,142,149	0
21	CLA	4	4014	45/65	0.83	0.34	71,105,128,134	0
26	LUT	2	2502	42/42	0.84	0.33	83,99,106,109	0
19	BCR	I	6018	40/40	0.84	0.30	37,61,79,86	0
21	CLA	A	1112	46/65	0.84	0.37	68,88,99,101	0
21	CLA	G	1002	46/65	0.85	0.25	112,128,140,145	0
21	CLA	A	1107	51/65	0.85	0.28	52,74,99,104	0
21	CLA	4	4008	48/65	0.85	0.16	66,92,107,138	0
21	CLA	A	1123	65/65	0.85	0.30	58,84,97,103	0
21	CLA	A	1133	46/65	0.85	0.27	77,90,112,119	0
21	CLA	A	1134	46/65	0.85	0.30	93,103,131,137	0
21	CLA	A	1108	46/65	0.85	0.22	103,120,136,146	0
21	CLA	4	4002	56/65	0.85	0.31	76,94,112,128	0
21	CLA	A	1113	46/65	0.85	0.30	95,112,136,139	0
19	BCR	L	6019	40/40	0.86	0.34	40,59,79,87	0
21	CLA	A	1121	46/65	0.86	0.24	103,130,154,160	0
21	CLA	A	1136	65/65	0.86	0.26	59,82,108,155	0
25	LMG	J	5001	35/55	0.86	0.33	62,91,103,104	0
26	LUT	1	1501	42/42	0.86	0.30	83,94,104,107	0
21	CLA	A	1115	56/65	0.86	0.24	85,107,132,161	0
21	CLA	1	1003	65/65	0.86	0.19	53,72,97,108	0
21	CLA	2	2011	60/65	0.86	0.17	80,97,144,158	0
21	CLA	A	1129	50/65	0.86	0.25	51,83,90,93	0
20	LHG	A	7003	49/49	0.87	0.27	81,113,121,123	0
21	CLA	2	2004	59/65	0.87	0.23	84,101,110,116	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
21	CLA	4	4010	50/65	0.87	0.23	57,93,132,147	0
21	CLA	B	1212	46/65	0.87	0.49	64,85,98,109	0
24	DGD	B	7101	61/66	0.87	0.27	40,70,96,104	0
21	CLA	A	1119	65/65	0.87	0.28	78,91,99,105	0
20	LHG	1	1801	49/49	0.87	0.23	68,88,119,122	0
21	CLA	1	1011	65/65	0.87	0.28	89,109,115,118	0
26	LUT	1	1502	42/42	0.87	0.34	65,87,109,118	0
19	BCR	B	6009	40/40	0.87	0.30	30,52,68,73	0
19	BCR	B	6004	40/40	0.87	0.42	54,75,81,82	0
21	CLA	2	2013	65/65	0.87	0.26	91,119,135,146	0
21	CLA	L	1503	50/65	0.87	0.23	58,77,98,105	0
19	BCR	G	2011	40/40	0.88	0.32	55,78,120,121	0
21	CLA	4	4004	65/65	0.88	0.31	56,81,91,96	0
21	CLA	A	1124	55/65	0.88	0.30	48,60,83,91	0
21	CLA	B	1213	60/65	0.88	0.22	67,81,103,106	0
21	CLA	B	1215	60/65	0.88	0.35	51,69,81,84	0
21	CLA	B	1219	60/65	0.88	0.23	50,81,101,103	0
21	CLA	B	1231	46/65	0.88	0.24	49,76,87,92	0
21	CLA	B	1234	60/65	0.88	0.29	39,56,98,104	0
21	CLA	A	1126	65/65	0.88	0.35	59,79,95,106	0
21	CLA	A	1116	54/65	0.88	0.26	73,89,105,111	0
21	CLA	A	1118	46/65	0.88	0.26	109,118,126,135	0
21	CLA	A	1111	60/65	0.88	0.27	60,86,114,117	0
21	CLA	A	1135	51/65	0.88	0.29	47,62,87,88	0
21	CLA	1	1002	56/65	0.88	0.31	101,113,133,140	0
20	LHG	B	7004	49/49	0.88	0.43	68,98,111,124	0
21	CLA	A	1141	51/65	0.88	0.28	91,124,133,137	0
21	CLA	A	1109	65/65	0.88	0.31	81,105,133,147	0
21	CLA	B	1222	65/65	0.89	0.30	28,47,85,87	0
21	CLA	4	4003	65/65	0.89	0.17	61,86,100,116	0
19	BCR	A	6011	40/40	0.89	0.27	32,48,74,81	0
21	CLA	A	1114	46/65	0.89	0.29	93,114,120,124	0
21	CLA	G	1001	55/65	0.89	0.30	74,93,113,123	0
21	CLA	A	1125	55/65	0.89	0.24	54,73,89,99	0
21	CLA	H	1000	46/65	0.89	0.41	69,106,123,134	0
21	CLA	1	1008	65/65	0.89	0.27	64,84,124,129	0
21	CLA	A	1122	59/65	0.89	0.23	57,78,98,103	0
28	G3P	4	4505	10/10	0.89	0.25	94,125,132,135	0
21	CLA	1	1012	50/65	0.90	0.21	78,95,113,175	0
21	CLA	L	1502	65/65	0.90	0.23	54,66,88,91	0
21	CLA	B	1240	65/65	0.90	0.29	42,72,83,97	0
21	CLA	2	2001	27/65	0.90	0.15	105,120,130,131	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
21	CLA	1	1001	55/65	0.90	0.24	81,103,129,170	0
21	CLA	F	1302	46/65	0.90	0.32	52,85,98,151	0
21	CLA	B	1210	65/65	0.90	0.24	46,56,73,101	0
21	CLA	2	2005	65/65	0.90	0.32	89,112,126,128	0
21	CLA	B	1224	65/65	0.90	0.29	32,54,93,95	0
21	CLA	B	1230	58/65	0.90	0.23	38,59,73,77	0
21	CLA	B	1216	65/65	0.90	0.24	43,56,94,97	0
26	LUT	4	4502	42/42	0.90	0.27	56,76,84,88	0
21	CLA	B	1214	59/65	0.90	0.33	44,61,102,119	0
21	CLA	B	1237	60/65	0.90	0.27	41,60,87,101	0
21	CLA	1	1007	55/65	0.91	0.37	76,100,121,139	0
21	CLA	F	1303	64/65	0.91	0.28	52,65,104,149	0
20	LHG	A	7001	49/49	0.91	0.31	47,72,94,97	0
21	CLA	4	4011	65/65	0.91	0.26	66,74,104,108	0
21	CLA	B	1218	60/65	0.91	0.20	54,78,101,102	0
21	CLA	A	9012	65/65	0.91	0.26	36,63,75,78	0
21	CLA	2	2012	65/65	0.91	0.24	72,88,117,121	0
21	CLA	A	9013	65/65	0.91	0.25	35,61,71,110	0
21	CLA	B	1208	55/65	0.91	0.21	49,68,96,99	0
18	PQN	B	5002	33/33	0.91	0.30	41,50,76,79	0
21	CLA	B	1211	65/65	0.91	0.23	56,68,81,90	0
21	CLA	A	1127	65/65	0.91	0.35	52,63,79,85	0
21	CLA	A	1139	65/65	0.91	0.21	33,51,81,88	0
21	CLA	A	1103	65/65	0.91	0.25	63,80,90,111	0
21	CLA	F	1301	45/65	0.91	0.20	48,63,77,148	0
19	BCR	A	6017	40/40	0.91	0.30	34,52,79,93	0
21	CLA	B	1223	65/65	0.92	0.28	31,50,60,63	0
21	CLA	4	4009	50/65	0.92	0.20	64,83,103,105	0
21	CLA	A	1104	65/65	0.92	0.28	47,69,81,87	0
21	CLA	B	1227	65/65	0.92	0.21	39,63,89,92	0
21	CLA	4	4013	51/65	0.92	0.18	63,77,101,104	0
21	CLA	A	1105	51/65	0.92	0.22	67,81,98,103	0
21	CLA	4	4015	46/65	0.92	0.17	51,65,83,108	0
19	BCR	I	6020	40/40	0.92	0.26	44,51,65,75	0
21	CLA	A	1137	55/65	0.92	0.32	63,81,99,106	0
21	CLA	B	1236	55/65	0.92	0.26	51,61,122,125	0
19	BCR	L	6020	40/40	0.92	0.20	60,75,82,83	0
21	CLA	B	1238	65/65	0.92	0.24	35,51,74,86	0
19	BCR	J	6012	40/40	0.92	0.24	45,67,98,109	0
21	CLA	B	9023	65/65	0.92	0.28	36,54,62,89	0
21	CLA	B	1221	54/65	0.92	0.22	33,57,71,86	0
21	CLA	1	1004	65/65	0.92	0.19	57,77,83,113	0

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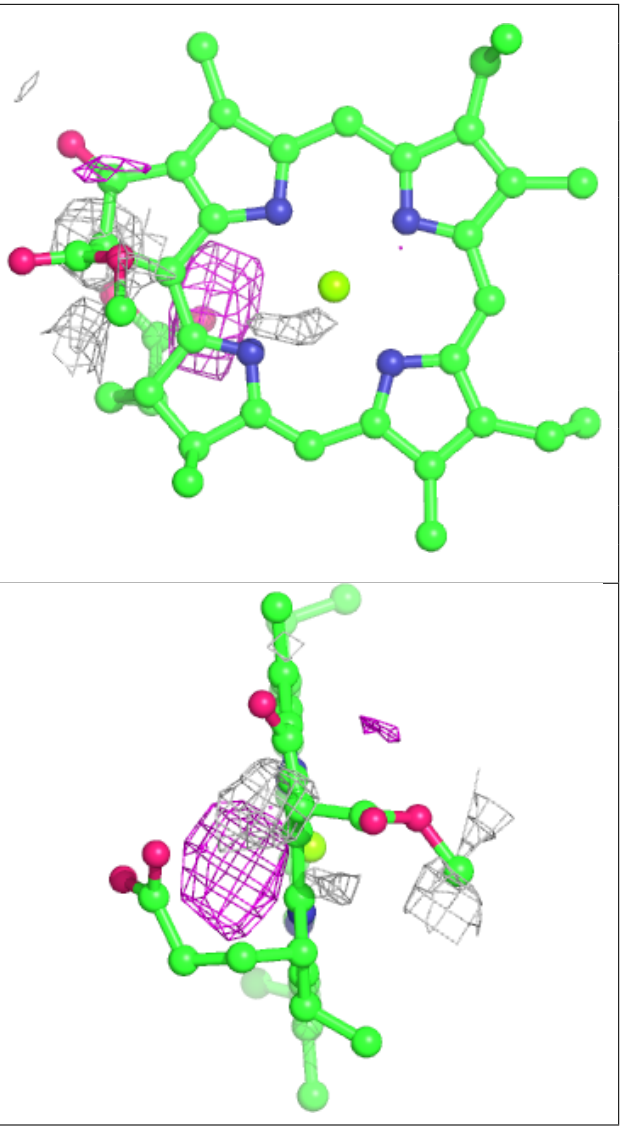
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
21	CLA	1	1005	56/65	0.92	0.20	54,69,80,85	0
19	BCR	F	6014	40/40	0.92	0.22	38,56,64,66	0
21	CLA	L	1501	46/65	0.93	0.36	66,80,103,115	0
21	CLA	A	1140	65/65	0.93	0.22	35,50,73,99	0
21	CLA	A	1130	46/65	0.93	0.21	48,60,88,109	0
21	CLA	A	1132	65/65	0.93	0.21	39,50,80,85	0
21	CLA	4	4012	65/65	0.93	0.21	54,62,89,107	0
21	CLA	A	1106	65/65	0.93	0.24	39,55,76,81	0
21	CLA	B	1239	65/65	0.93	0.24	32,47,65,73	0
21	CLA	B	1217	46/65	0.93	0.19	52,70,92,109	0
21	CLA	B	9022	65/65	0.93	0.25	32,47,62,86	0
18	PQN	A	5001	33/33	0.93	0.28	38,57,67,71	0
21	CLA	A	1101	65/65	0.93	0.20	43,63,91,95	0
21	CLA	B	1206	65/65	0.93	0.27	38,50,78,84	0
21	CLA	B	1207	65/65	0.93	0.19	40,62,83,98	0
21	CLA	A	1117	65/65	0.93	0.39	59,78,92,123	0
21	CLA	B	1209	46/65	0.93	0.17	52,63,84,96	0
21	CLA	B	1225	65/65	0.93	0.23	31,46,60,71	0
21	CLA	A	1128	65/65	0.93	0.24	44,66,81,96	0
21	CLA	A	1138	65/65	0.93	0.23	32,49,60,65	0
21	CLA	A	1102	50/65	0.93	0.19	43,63,91,95	0
21	CLA	A	1131	65/65	0.94	0.29	39,55,72,90	0
21	CLA	B	1220	65/65	0.94	0.22	32,48,101,106	0
21	CLA	B	1202	65/65	0.94	0.22	33,53,71,92	0
21	CLA	B	1229	65/65	0.94	0.22	36,50,73,85	0
21	CLA	B	1204	55/65	0.94	0.19	38,61,77,78	0
19	BCR	F	6016	40/40	0.94	0.23	35,51,76,82	0
21	CLA	B	1205	65/65	0.95	0.20	33,46,70,83	0
21	CLA	B	1235	65/65	0.95	0.19	36,53,68,73	0
23	CL0	A	9011	65/65	0.95	0.24	30,39,53,73	0
21	CLA	B	1228	51/65	0.95	0.17	33,45,66,92	0
21	CLA	B	1203	60/65	0.95	0.19	30,43,69,74	0
21	CLA	B	1201	46/65	0.95	0.20	34,46,78,91	0
21	CLA	B	1226	65/65	0.95	0.22	28,43,71,73	0
21	CLA	B	9010	65/65	0.96	0.19	29,39,57,72	0
22	SF4	A	8001	8/8	0.96	0.21	50,64,71,75	0
22	SF4	C	8002	8/8	0.98	0.13	53,65,79,92	0
22	SF4	C	8003	8/8	0.98	0.10	53,63,89,92	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.

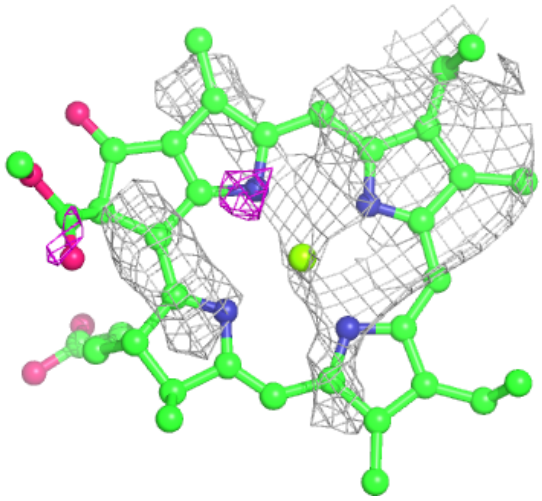
Electron density around CLA 3 3015:

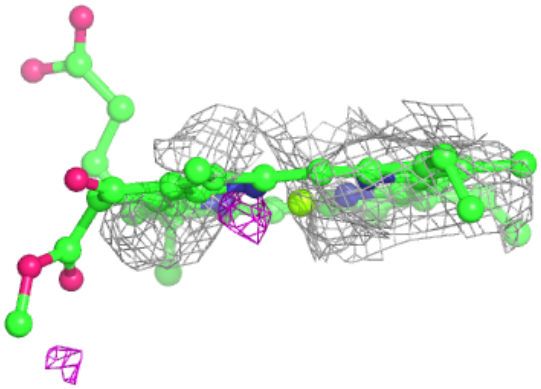
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

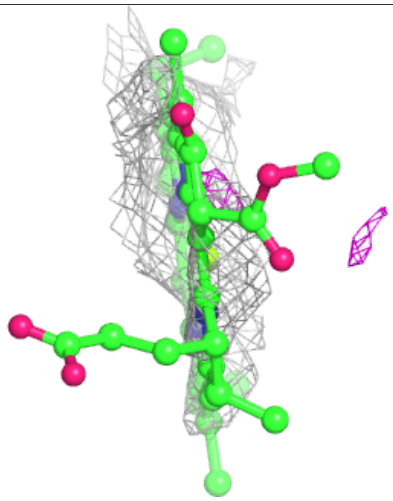


Electron density around CLA 3 3016:

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

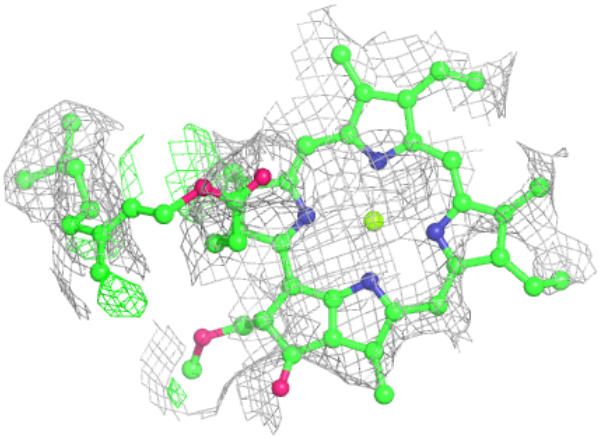


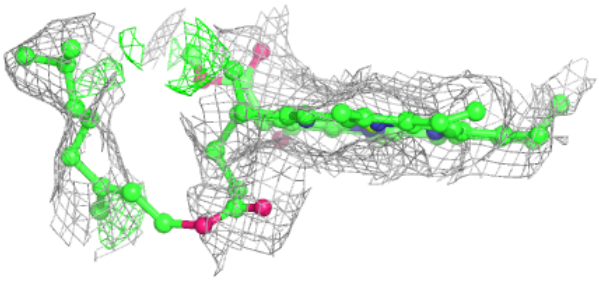


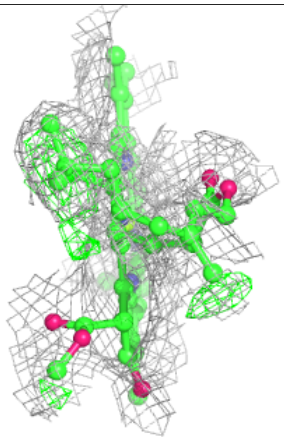


Electron density around CLA J 6015:

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

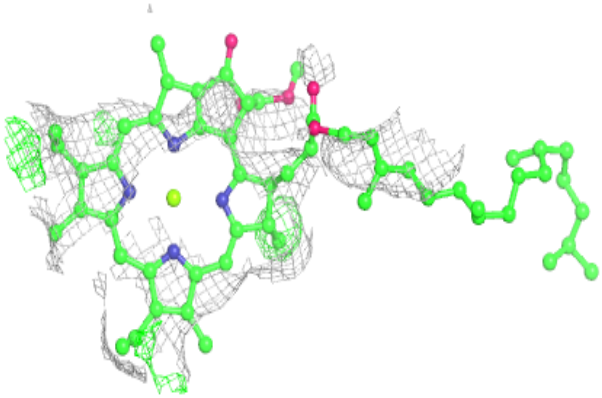


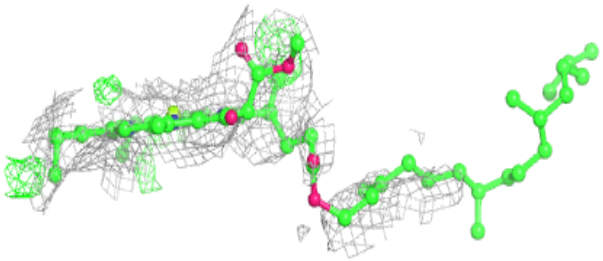


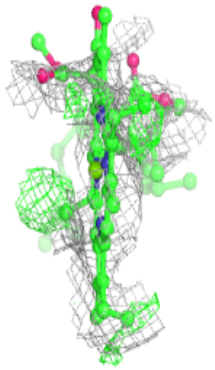


Electron density around CLA 3 3006:

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

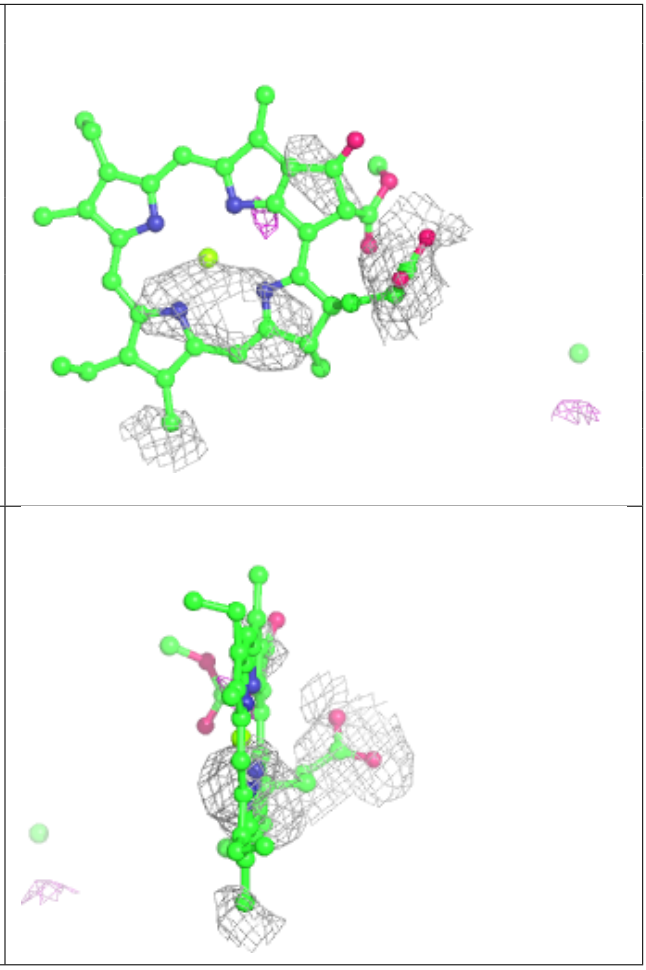






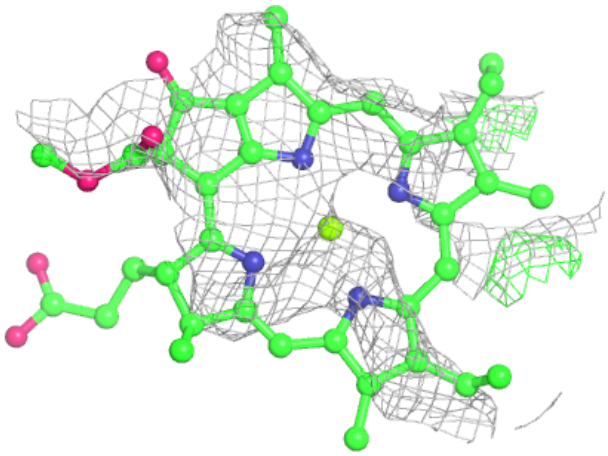
Electron density around CLA A 1143:

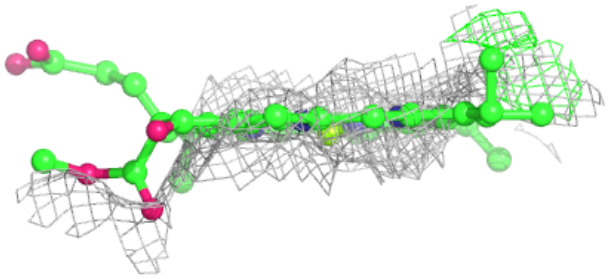
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

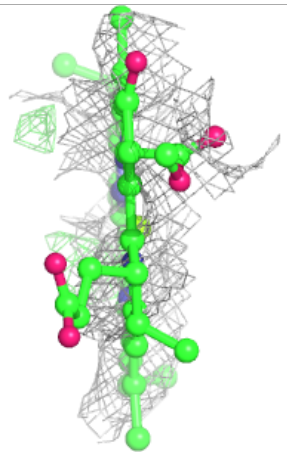


Electron density around CLA 3 3004:

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

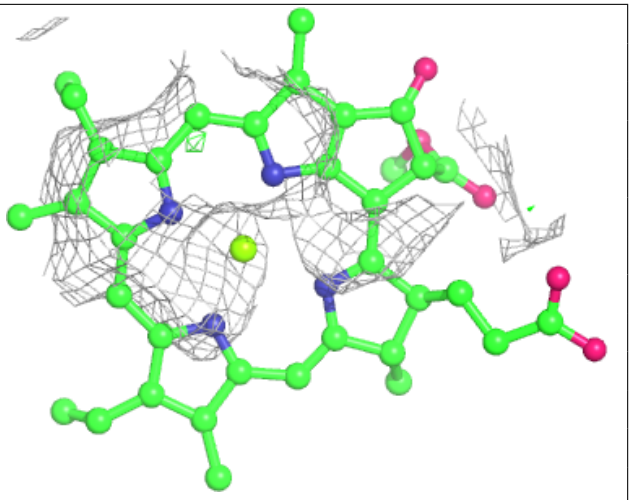


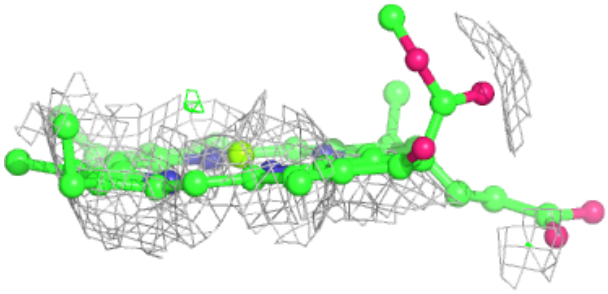


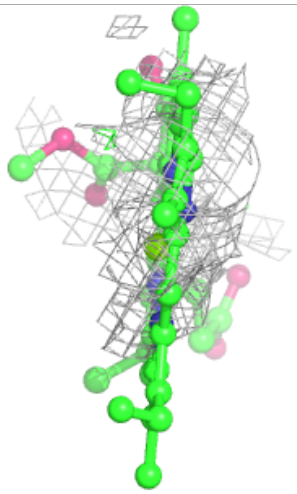


Electron density around CLA 3 3014:

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

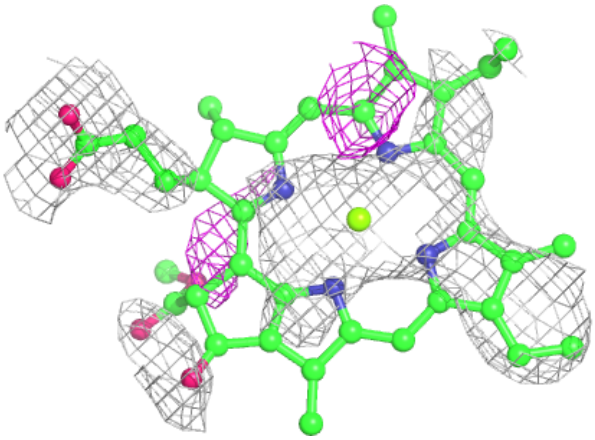


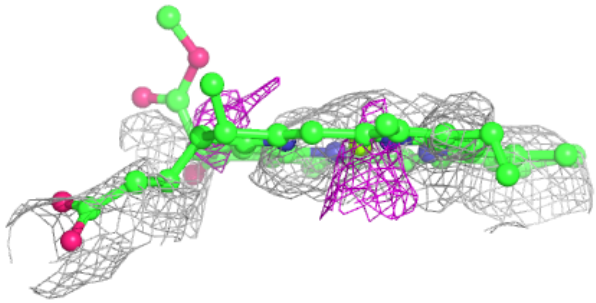


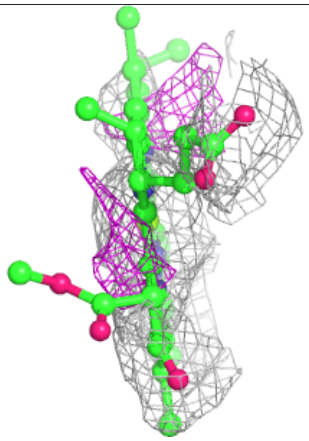


Electron density around CLA 1 1014:

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

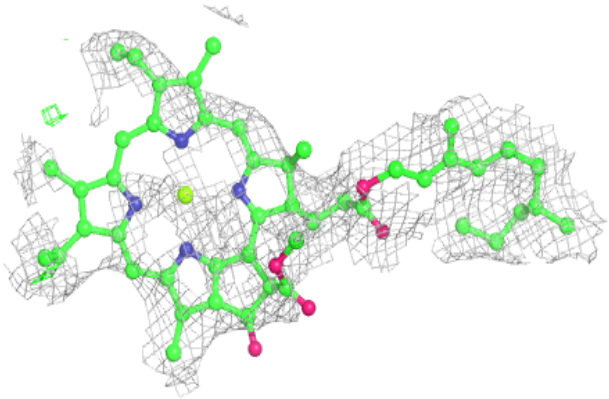


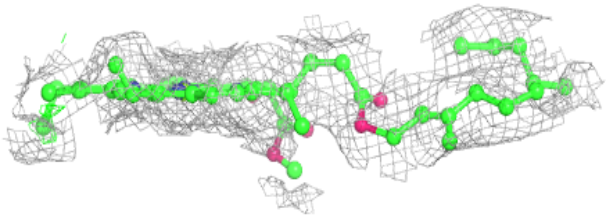


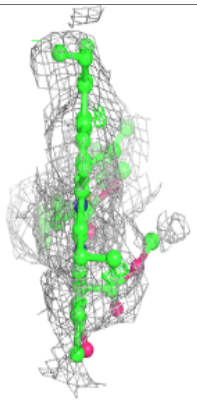


Electron density around CLA 2 2006:

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

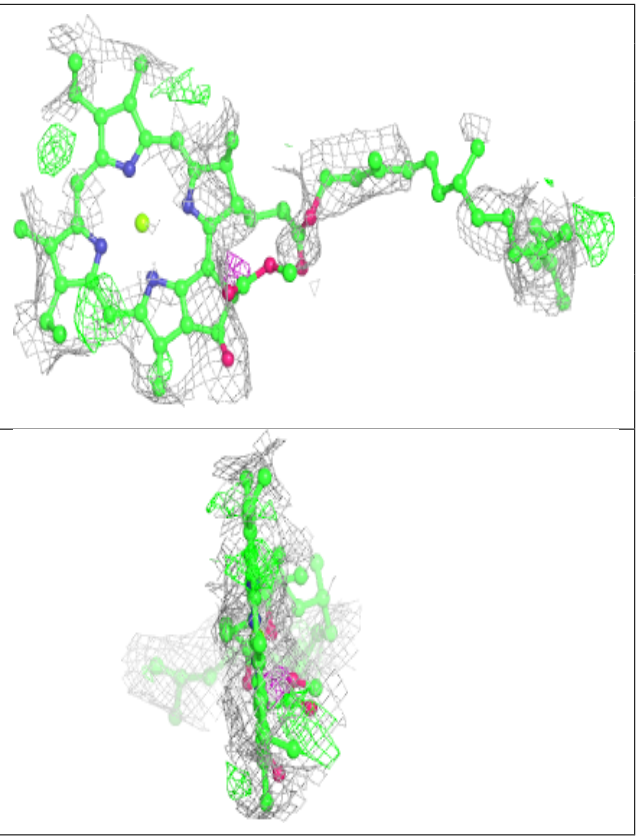






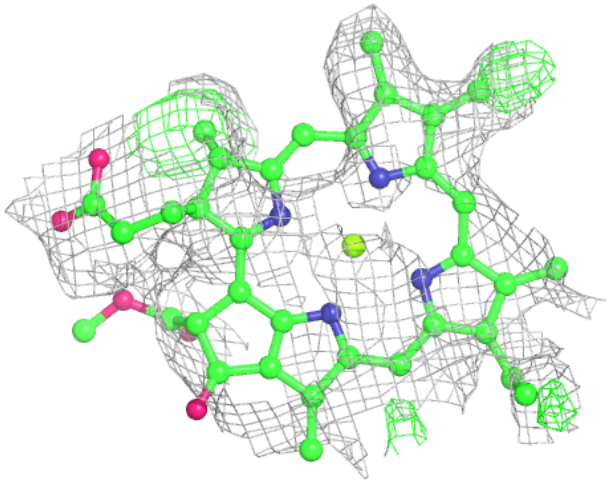
Electron density around CLA 4 4006:

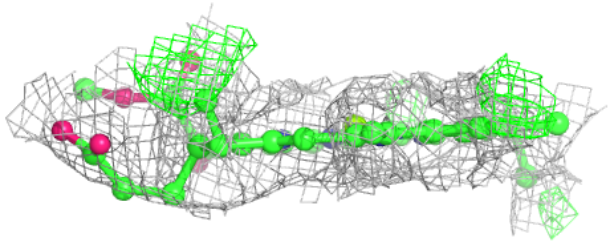
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

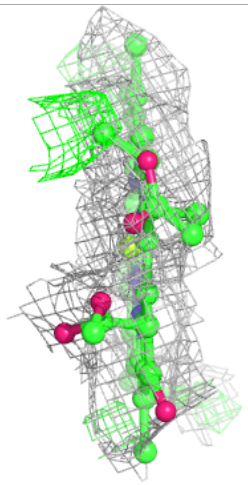


Electron density around CLA A 1142:

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

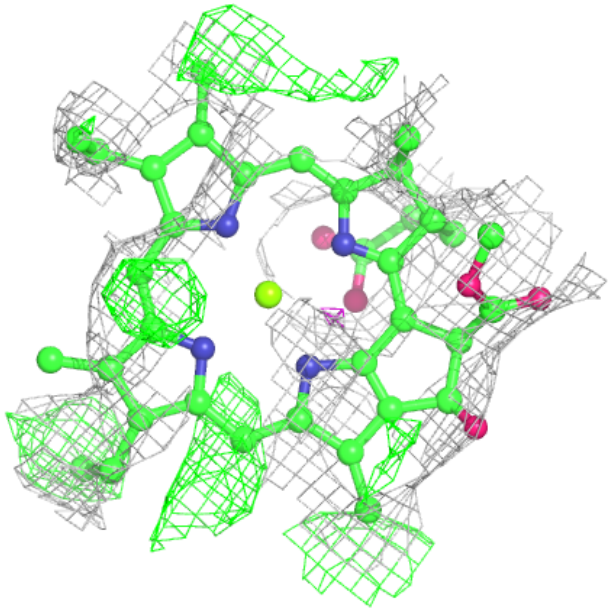


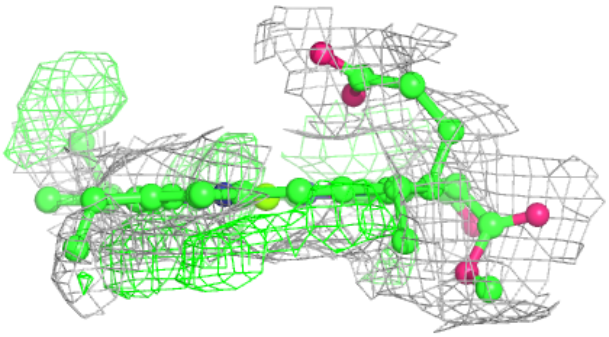




Electron density around CLA 4 4005:

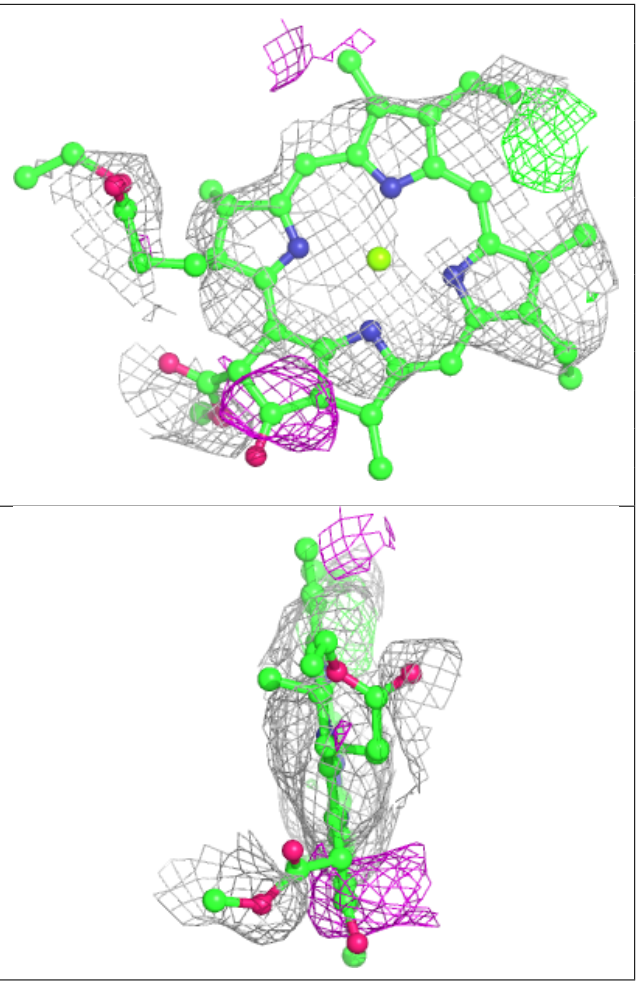
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





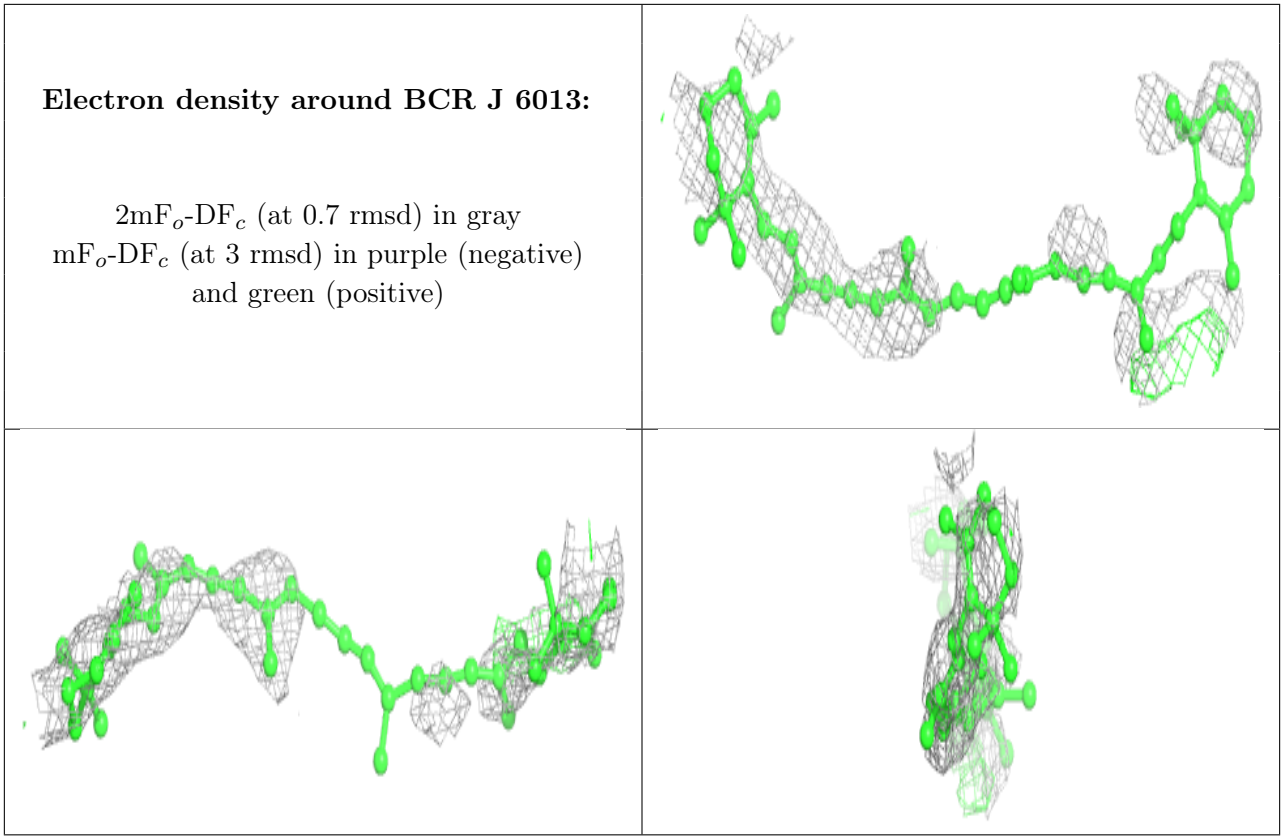
Electron density around CLA 1 1006:

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



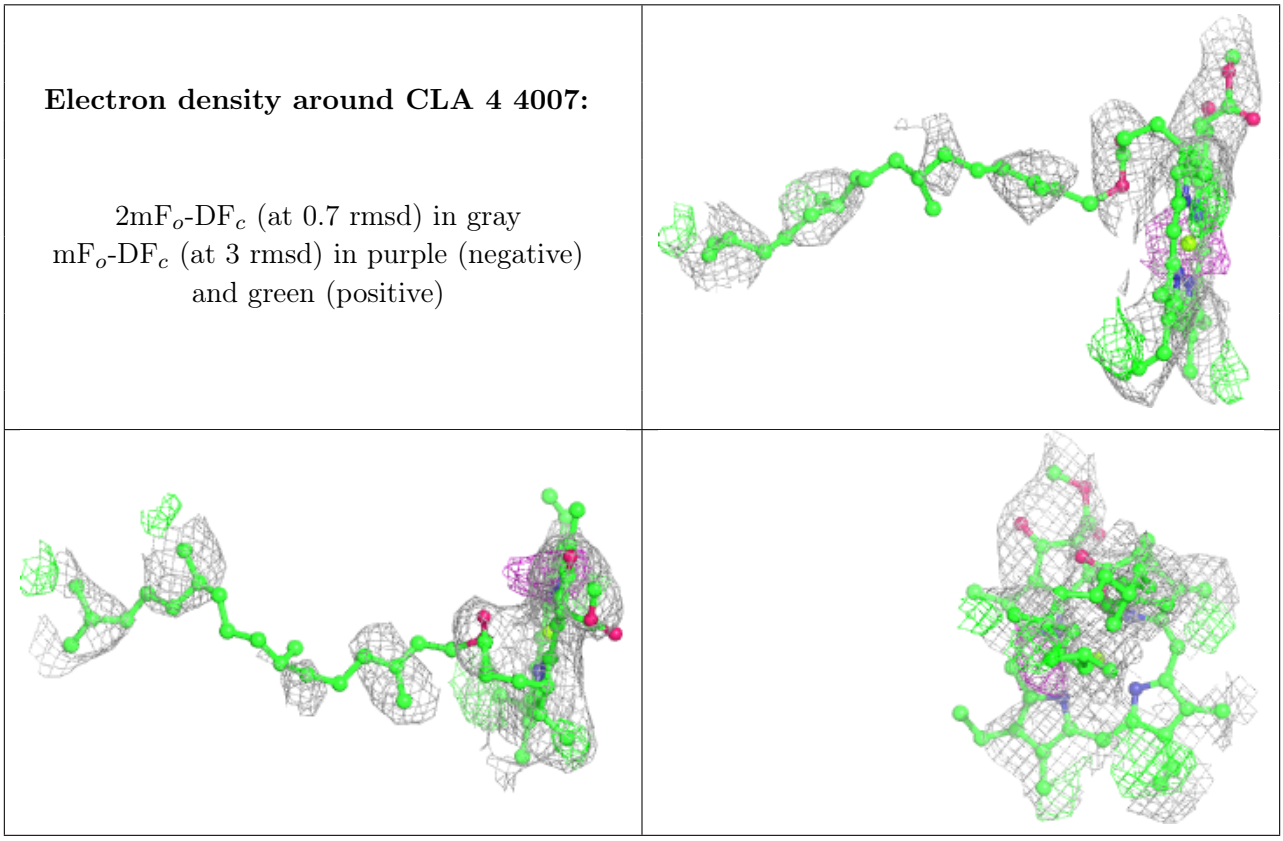
Electron density around BCR J 6013:

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



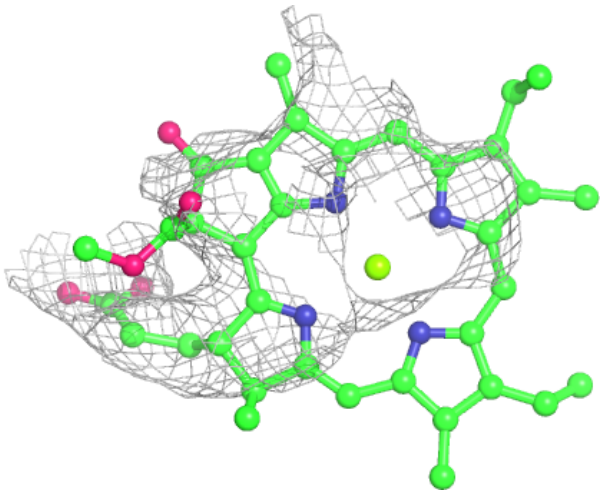
Electron density around CLA 4 4007:

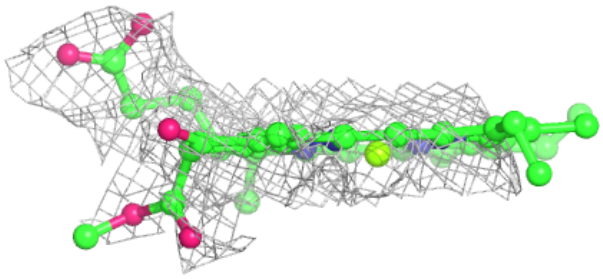
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

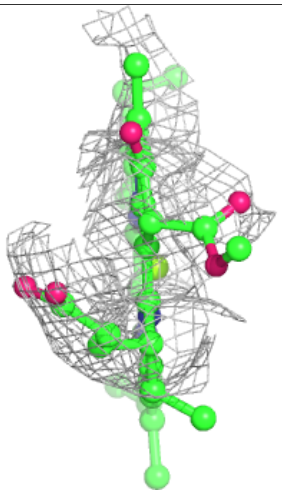


Electron density around CLA 3 3017:

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

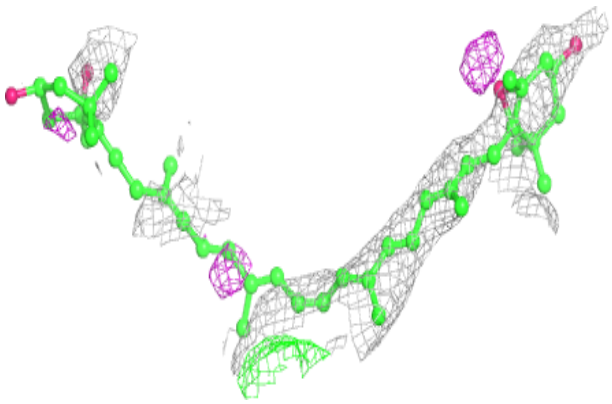


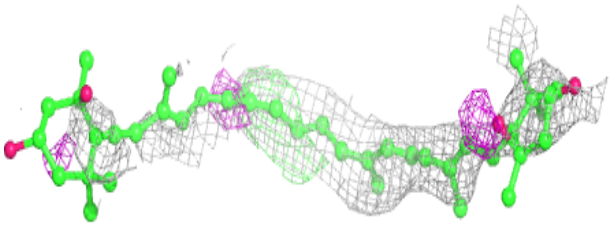


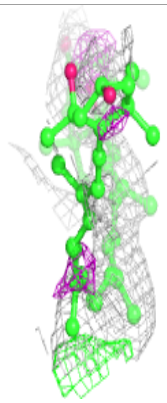


Electron density around NEX 4 4503:

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

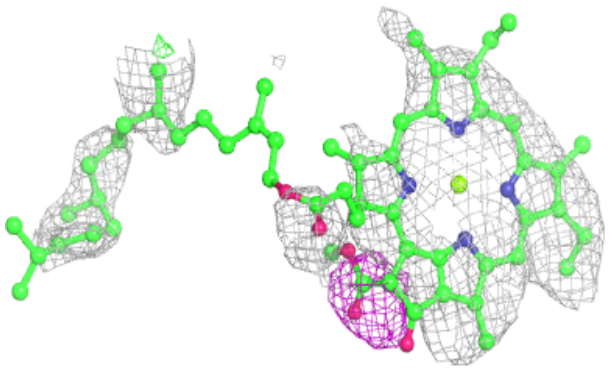


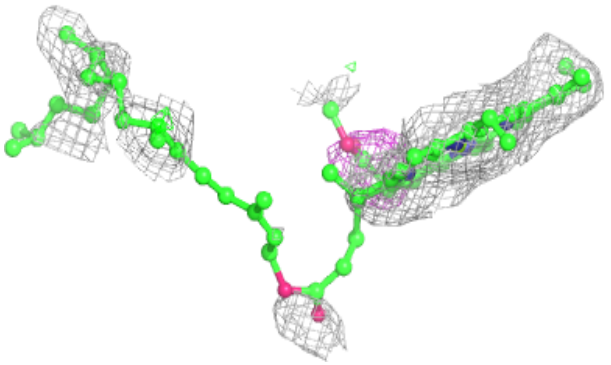


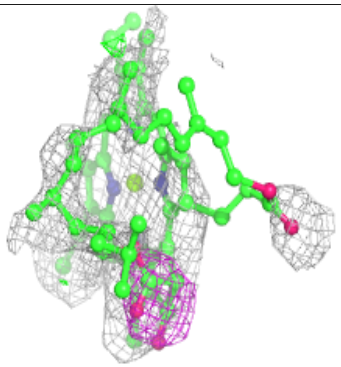


Electron density around CLA 2 2008:

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

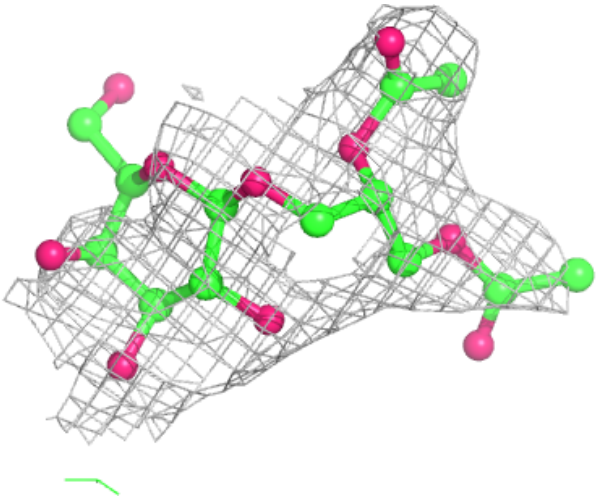


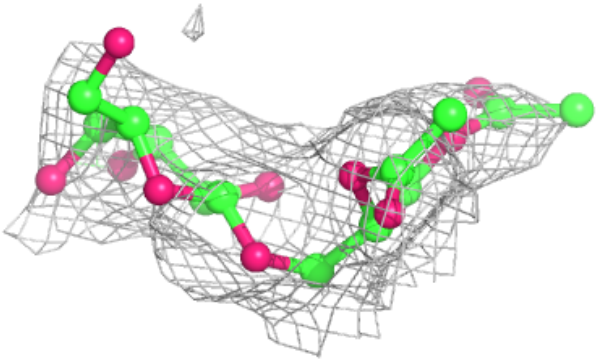


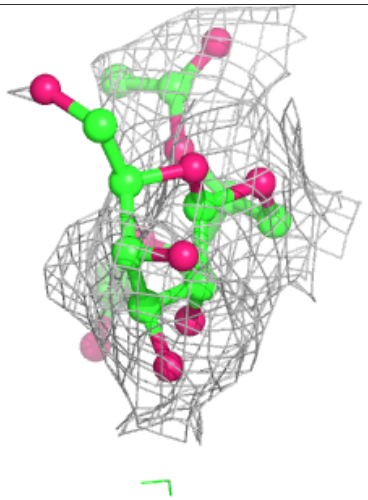


Electron density around LMG G 2021:

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

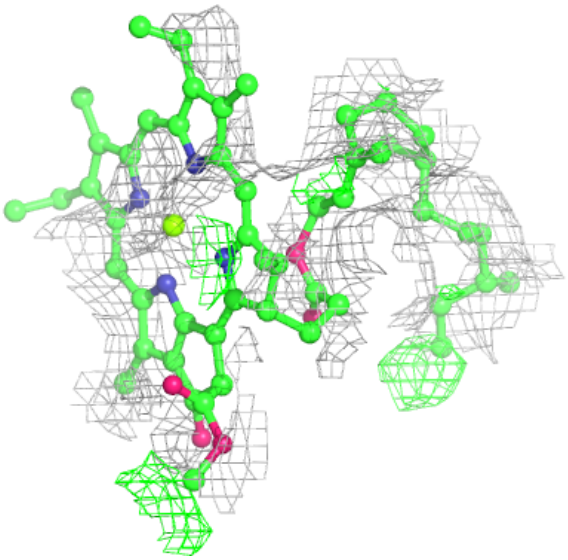


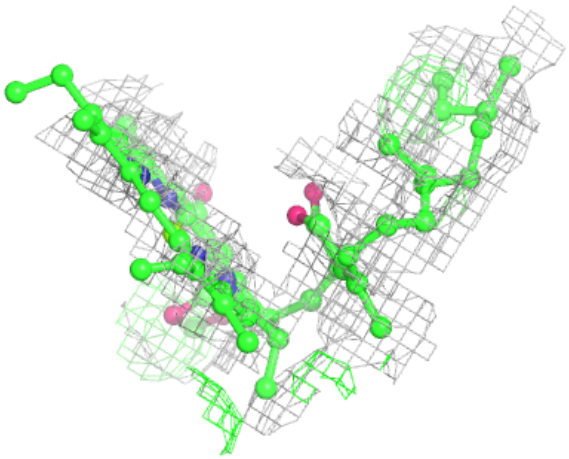


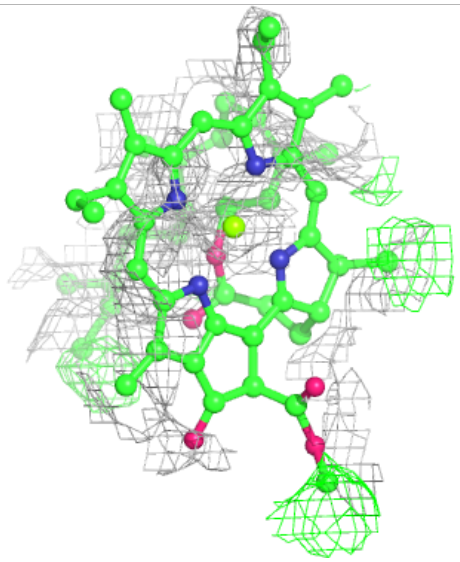


Electron density around CLA J 6014:

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

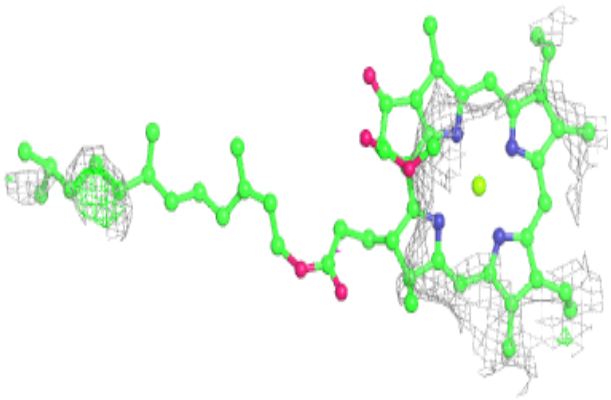


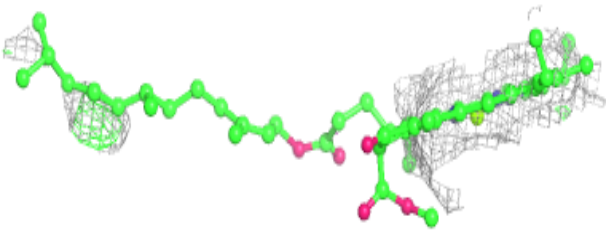


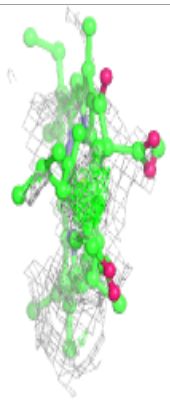


Electron density around CLA 3 3003:

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

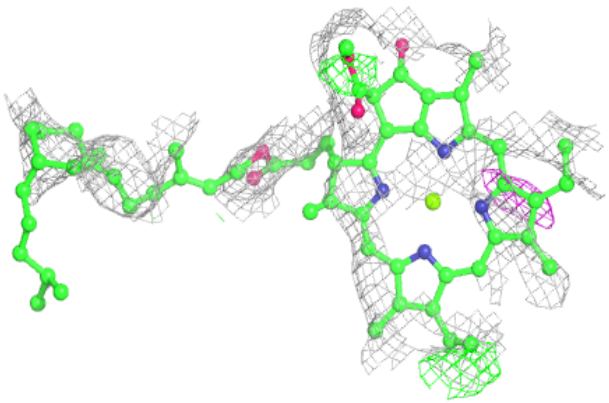


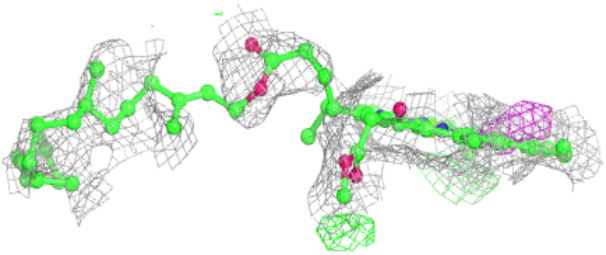


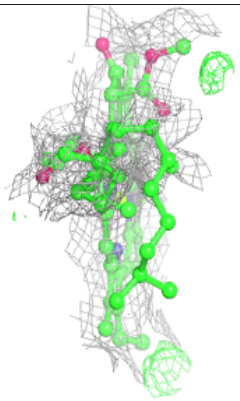


Electron density around CLA 2 2003:

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

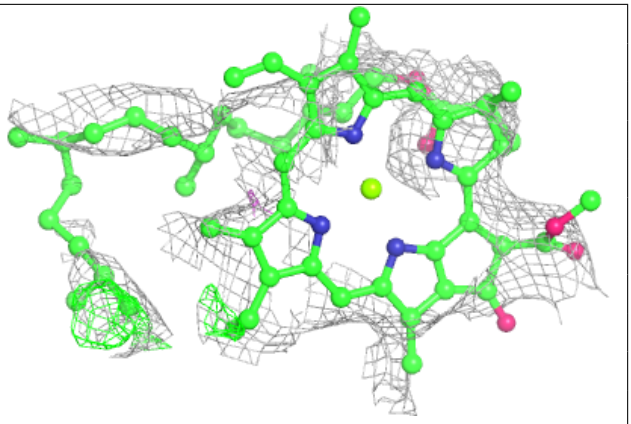


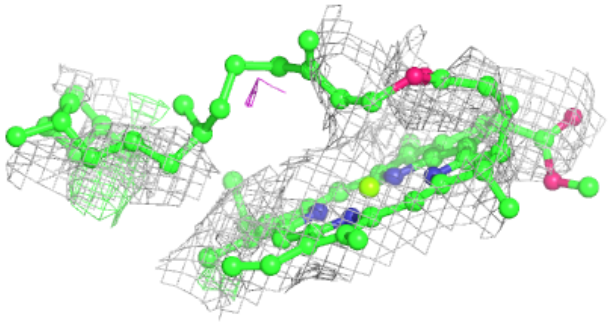


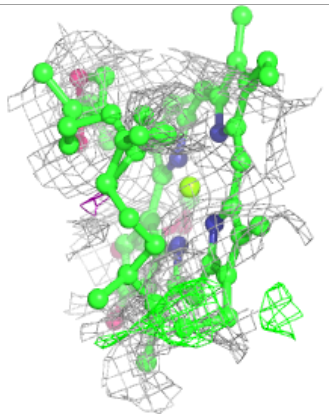


Electron density around CLA 3 3001:

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

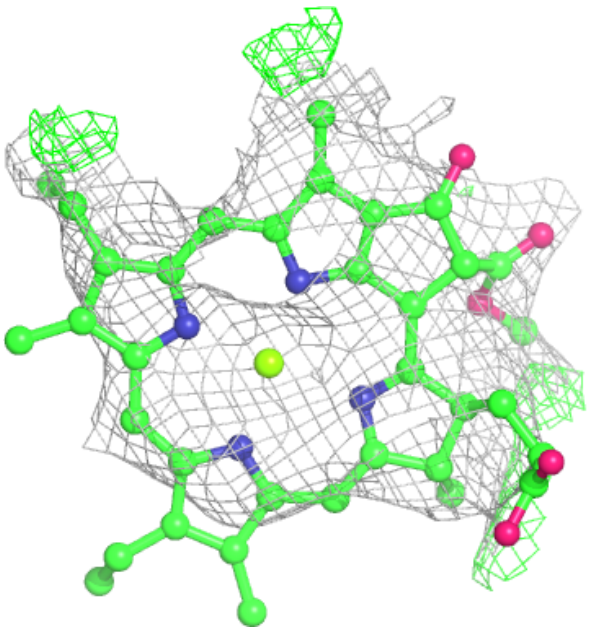


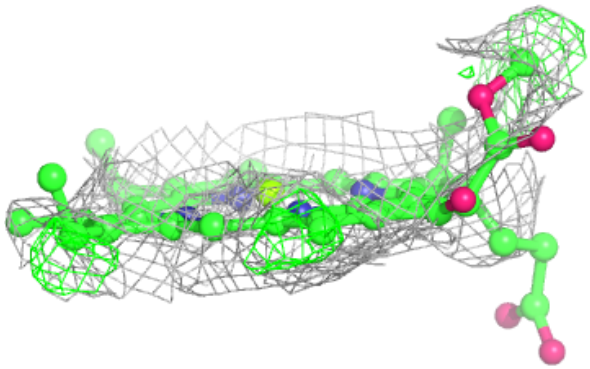


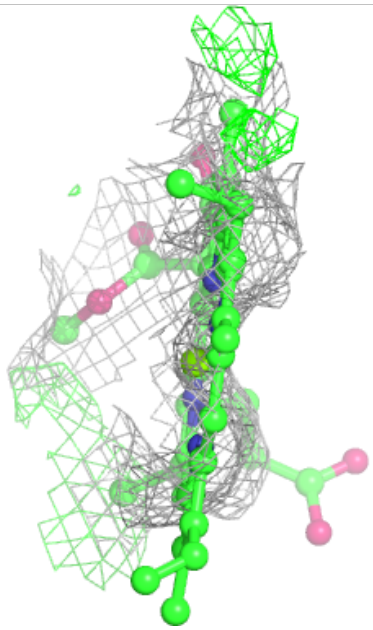


Electron density around CLA 3 3005:

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

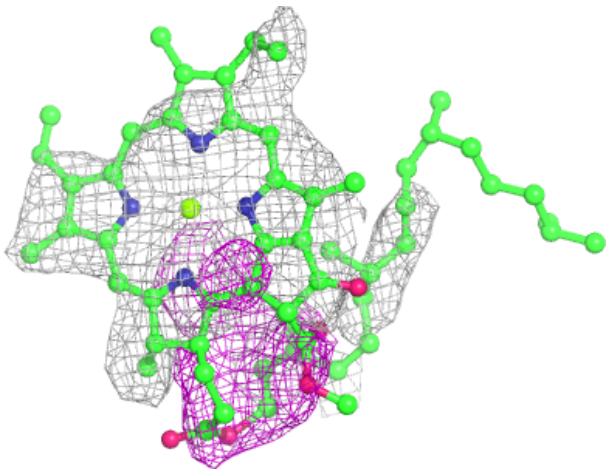


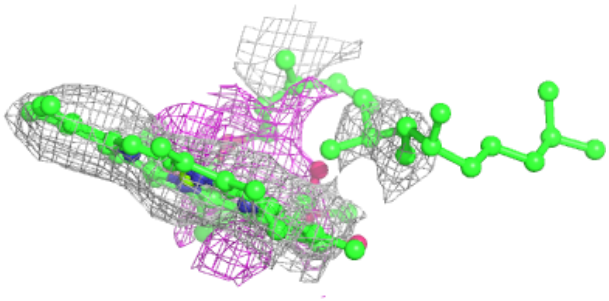


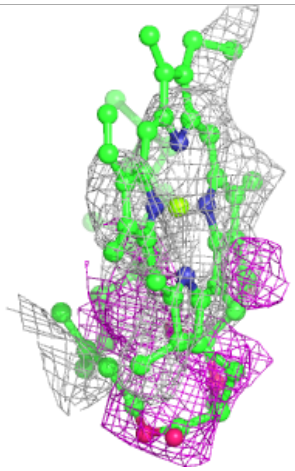


Electron density around CLA 1 1013:

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

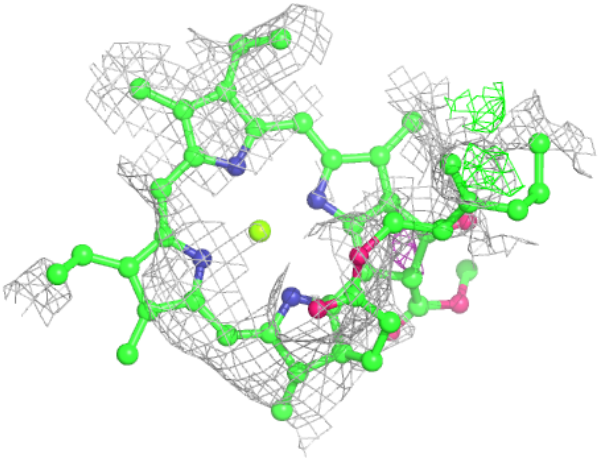


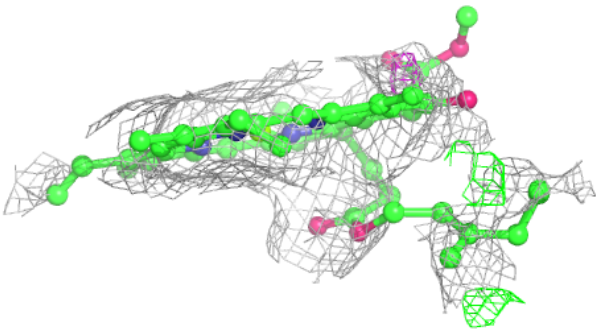


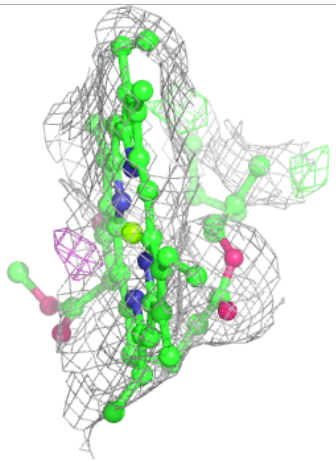


Electron density around CLA 3 3010:

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

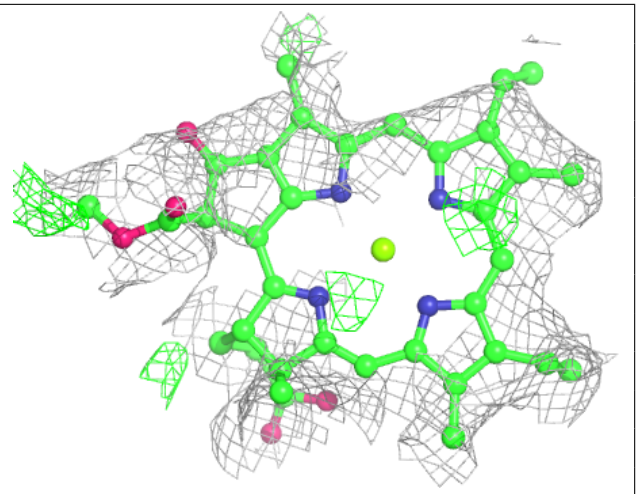


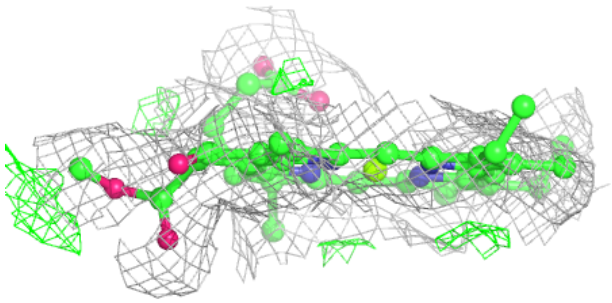




Electron density around CLA 2 2014:

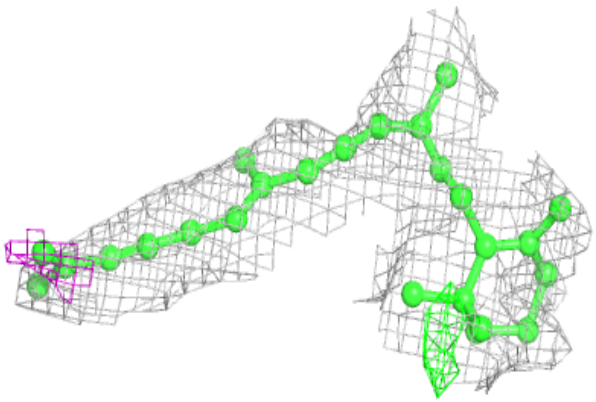
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

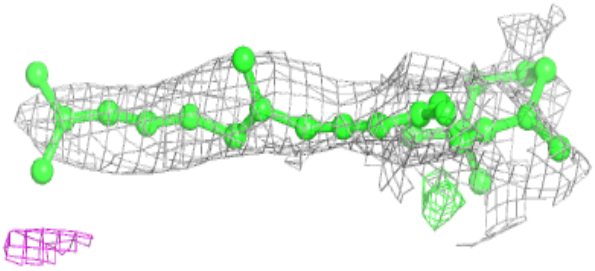


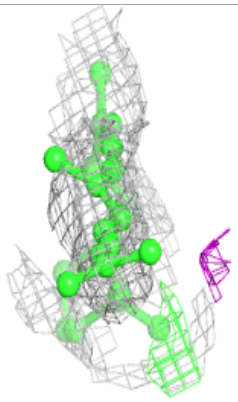


Electron density around BCR B 6011:

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

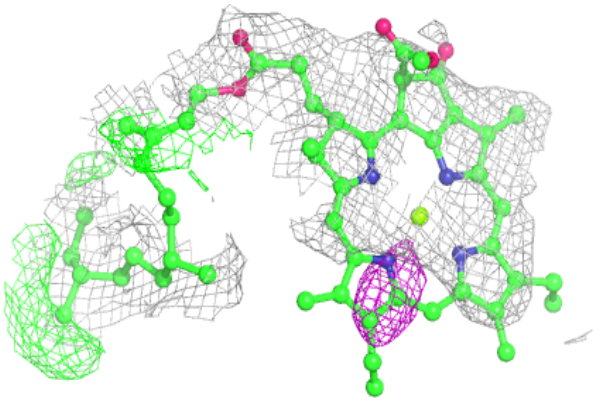


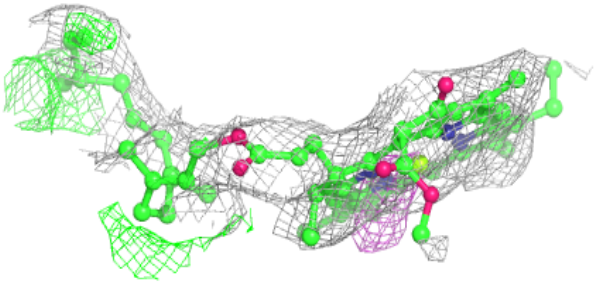


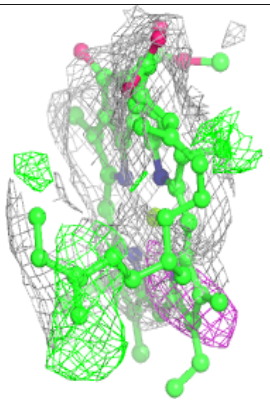


Electron density around CLA J 1302:

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

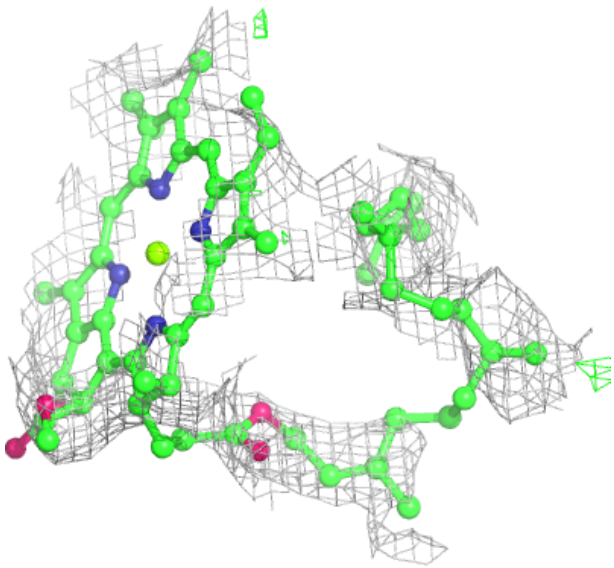


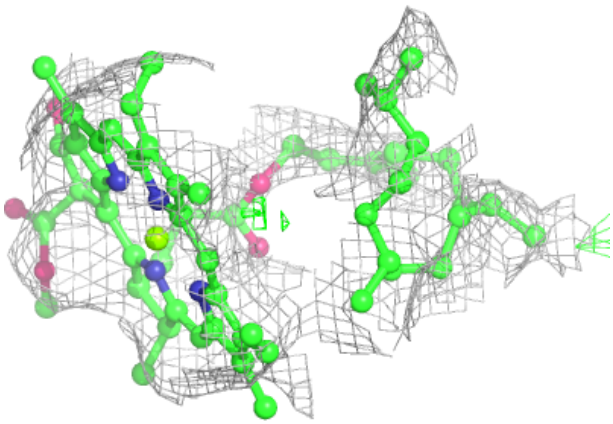


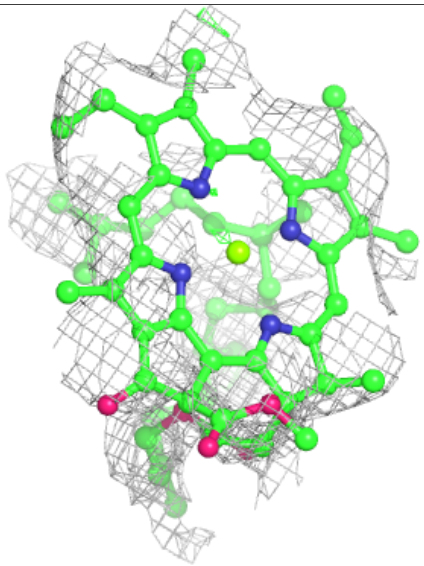


Electron density around CLA 3 3008:

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

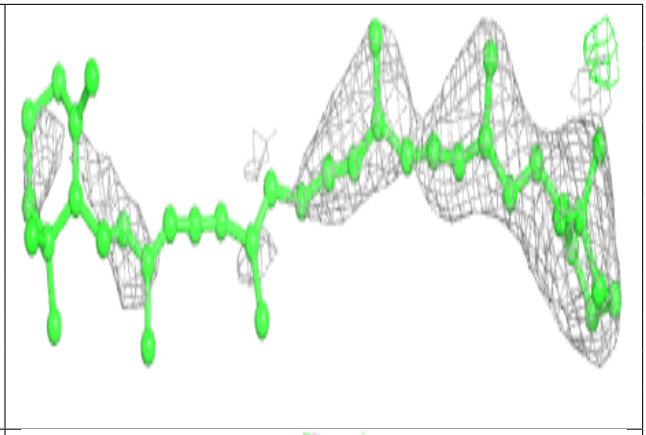


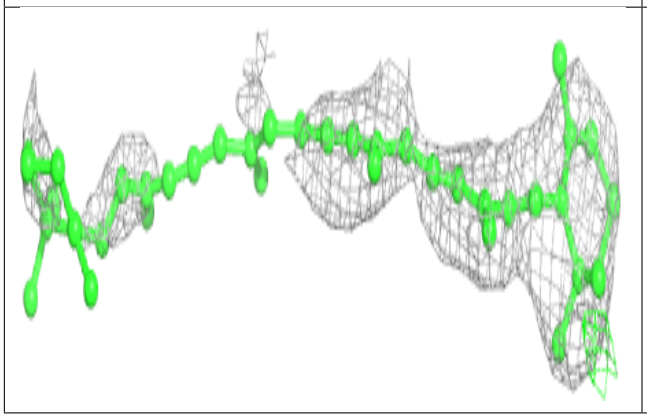


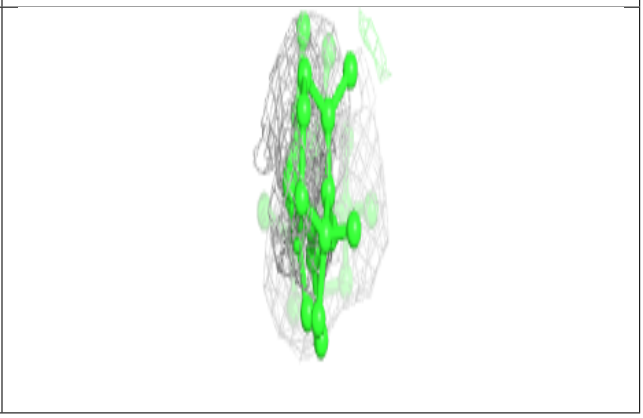


Electron density around BCR A 6003:

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

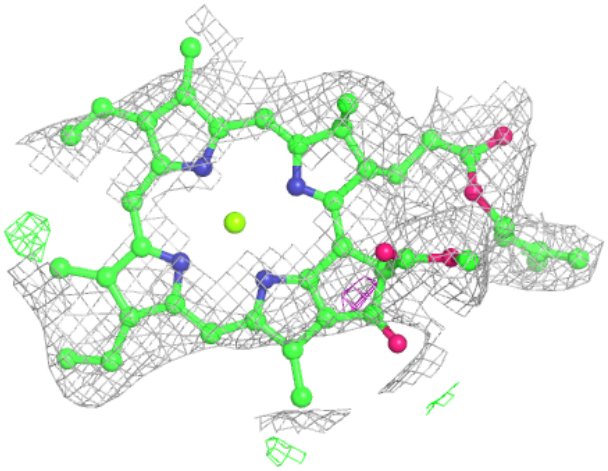


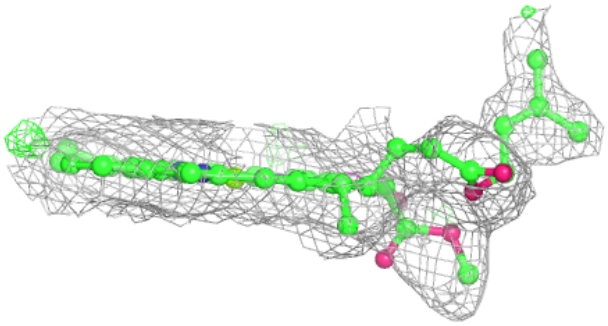


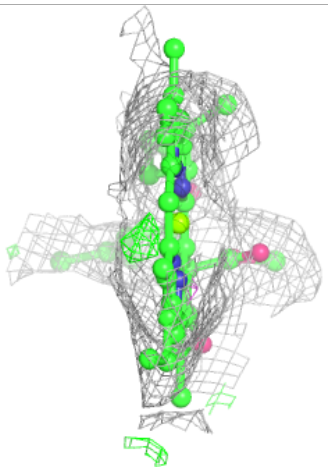


Electron density around CLA 3 3013:

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

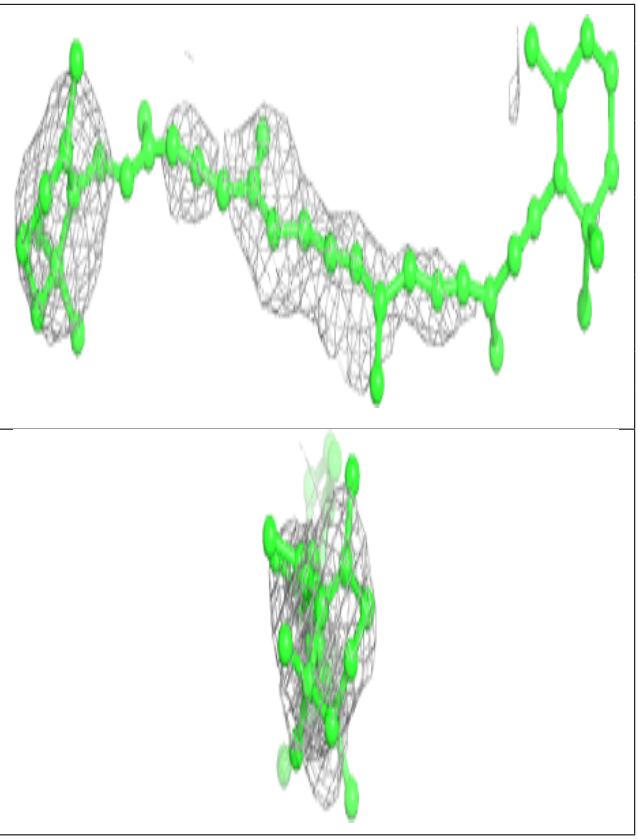






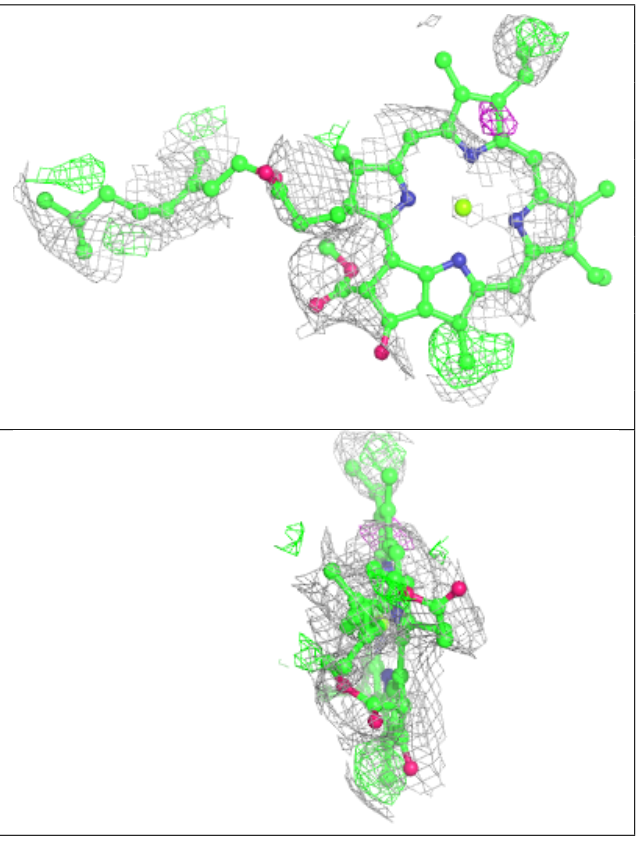
Electron density around BCR A 6002:

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



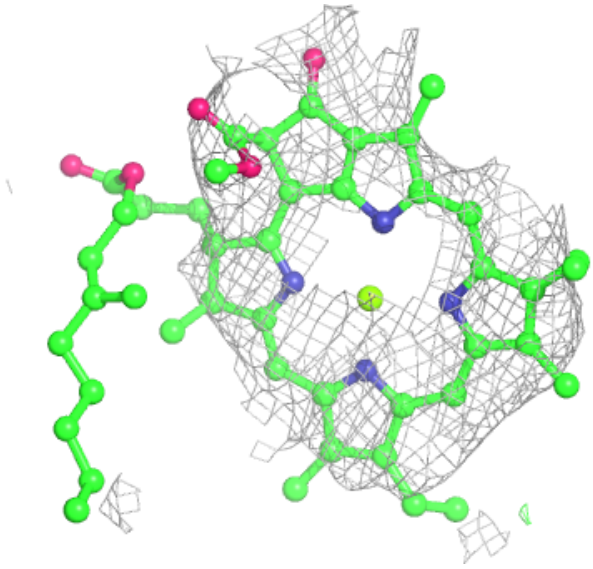
Electron density around CLA A 1110:

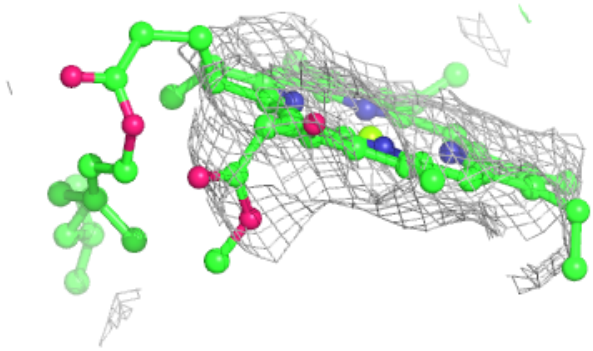
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

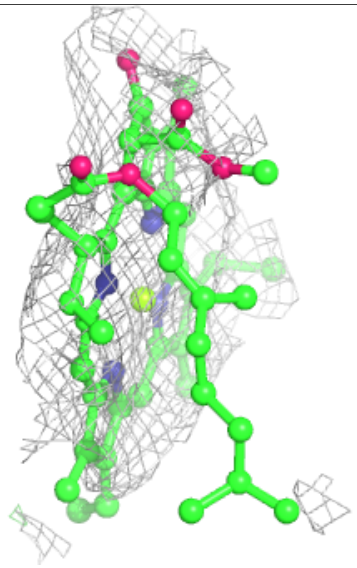


Electron density around CLA 3 3002:

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

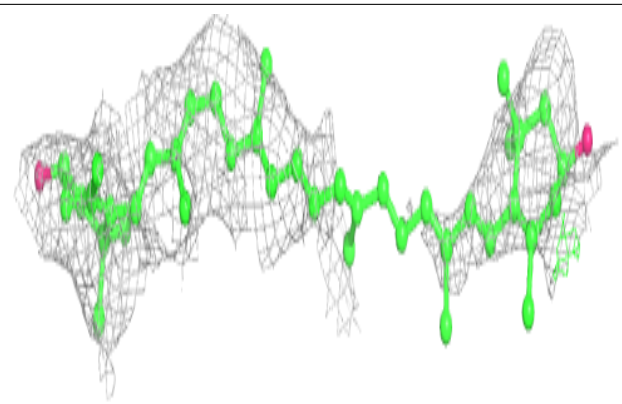


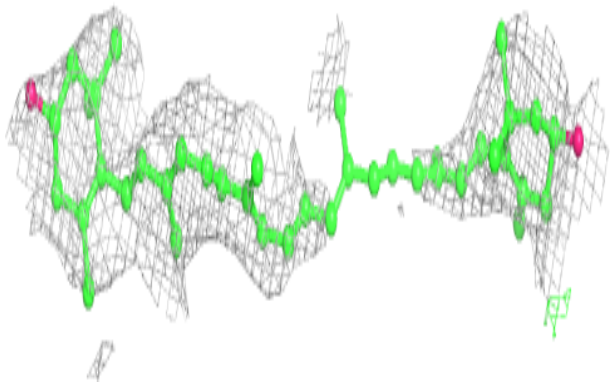


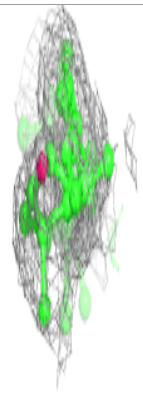


Electron density around LUT 2 2501:

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

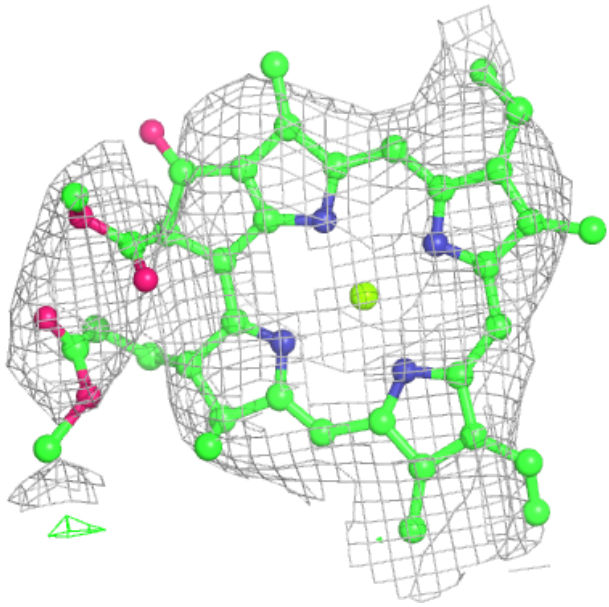


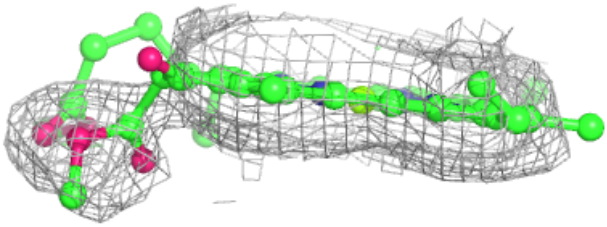


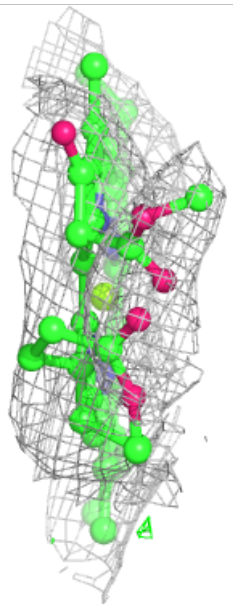


Electron density around CLA 3 3011:

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

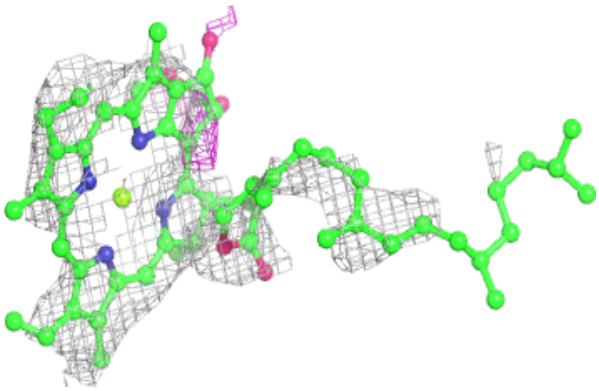


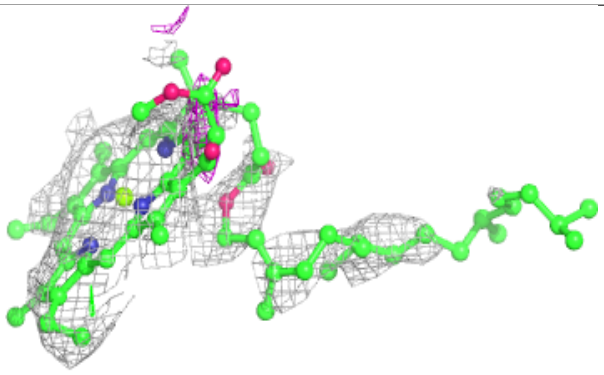


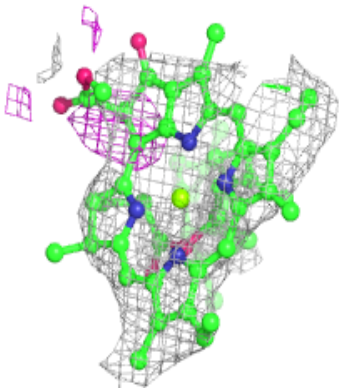


Electron density around CLA 1 1010:

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

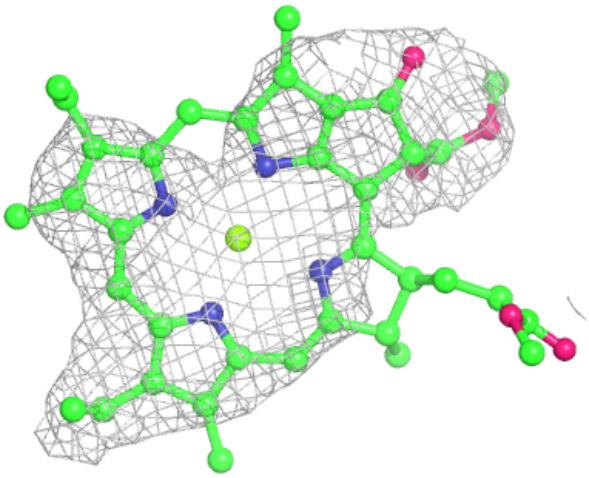


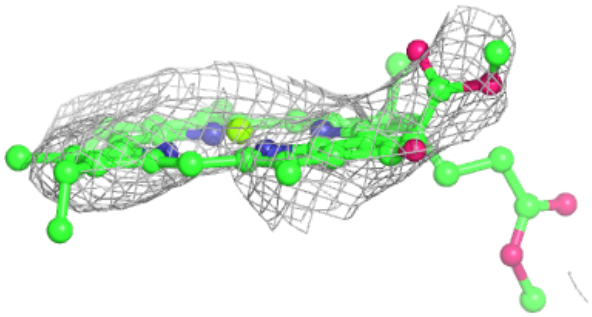


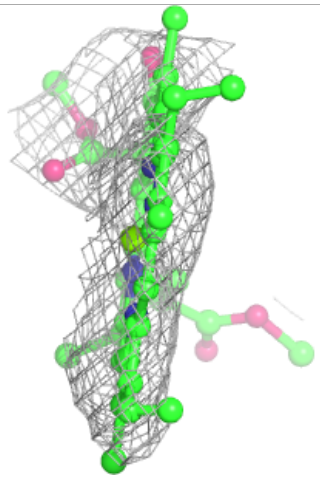


Electron density around CLA A 1120:

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

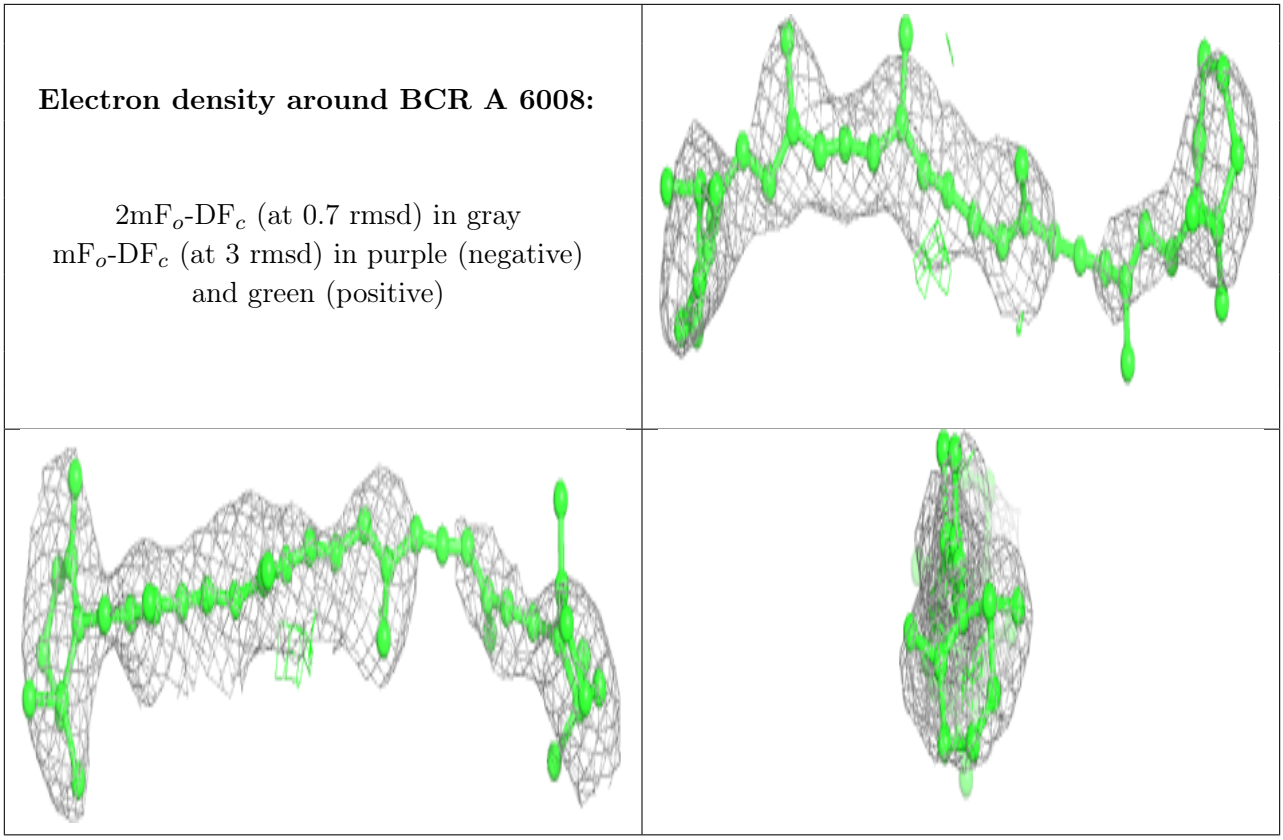






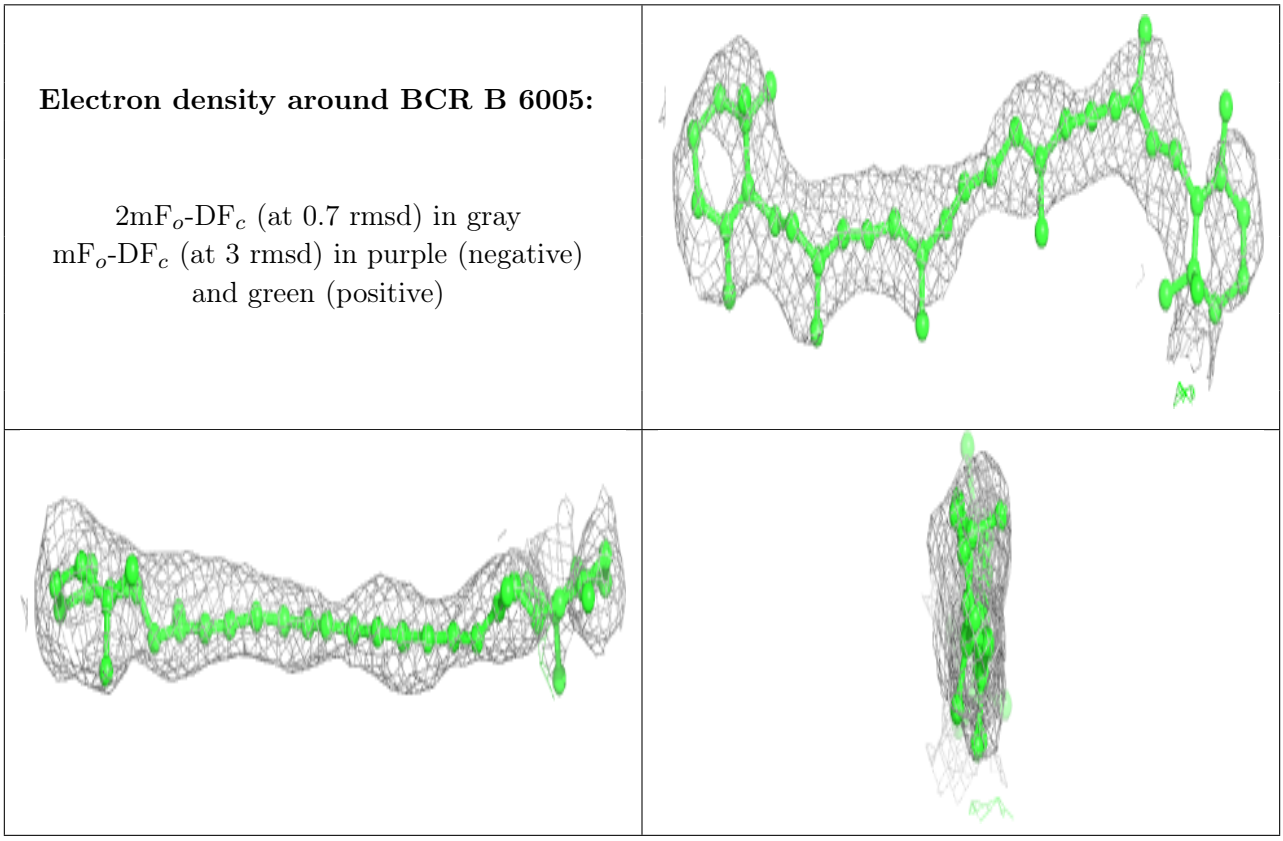
Electron density around BCR A 6008:

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



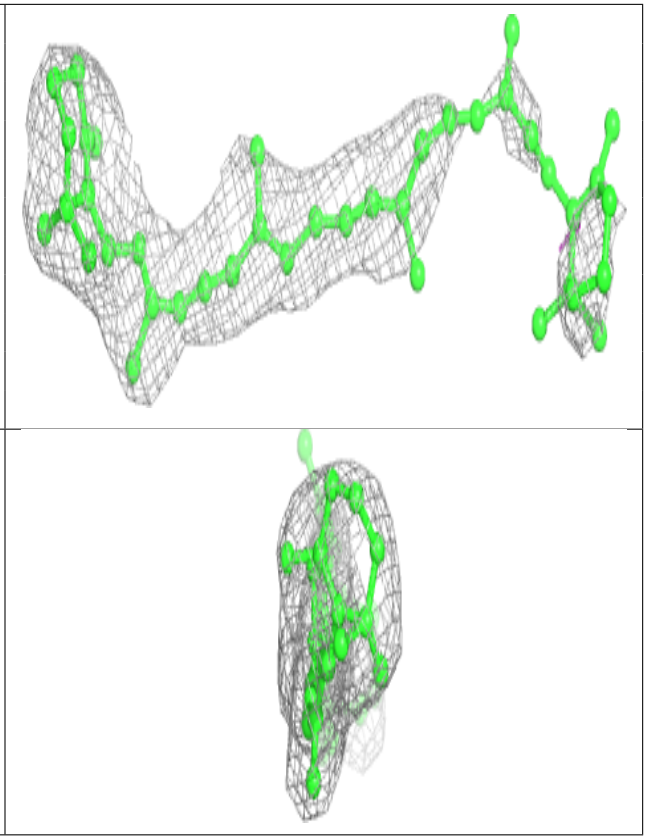
Electron density around BCR B 6005:

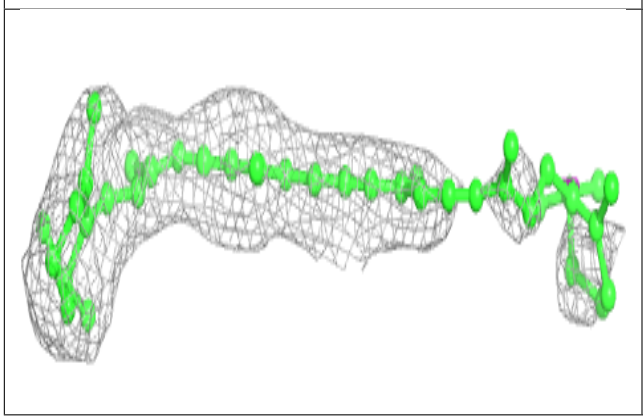
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around BCR B 6006:

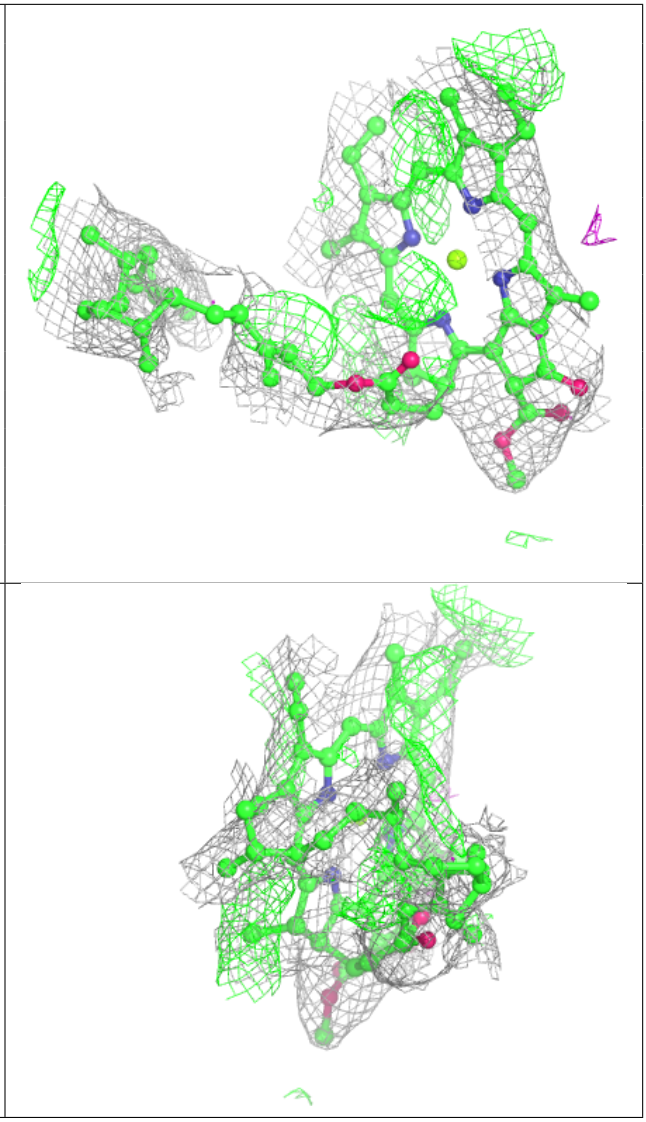
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





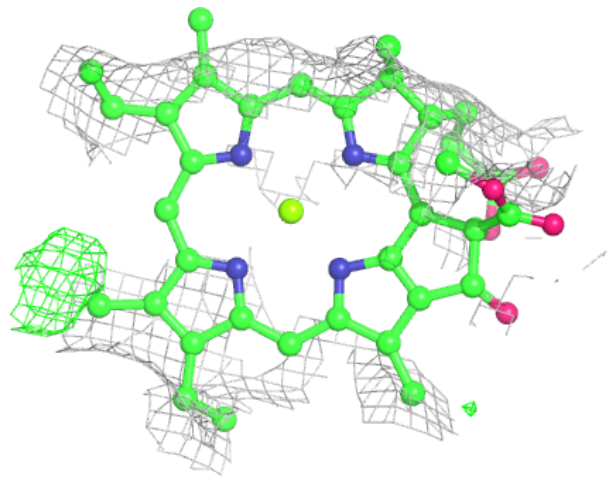
Electron density around CLA 1 1009:

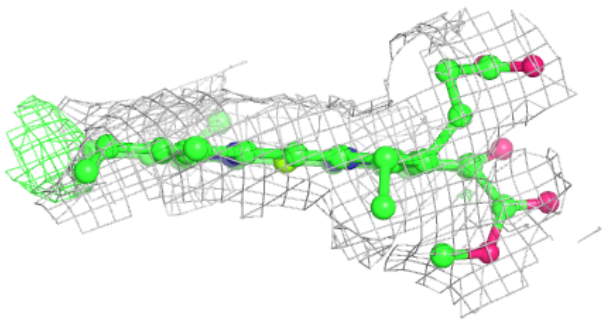
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

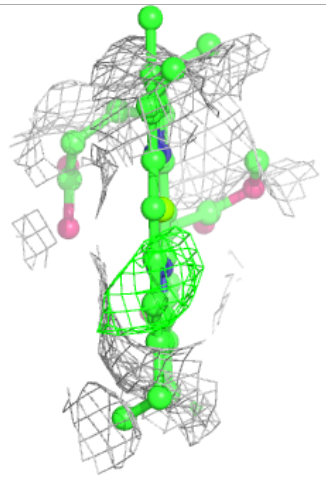


Electron density around CLA 3 3012:

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

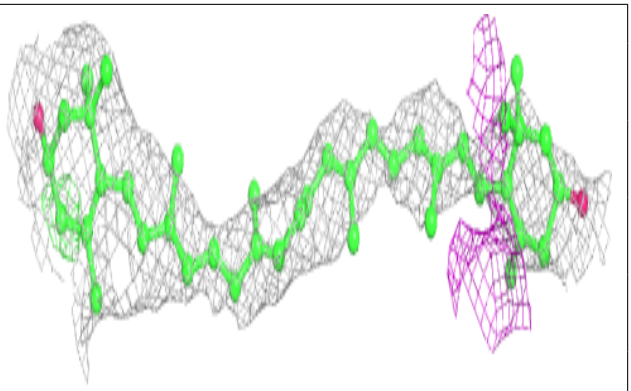


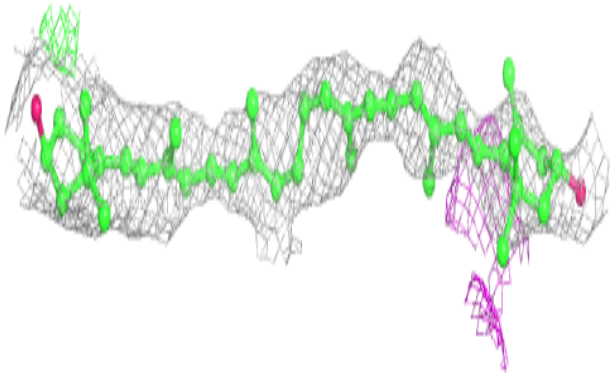


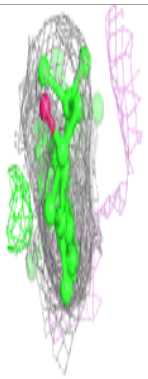


Electron density around LUT 4 4501:

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

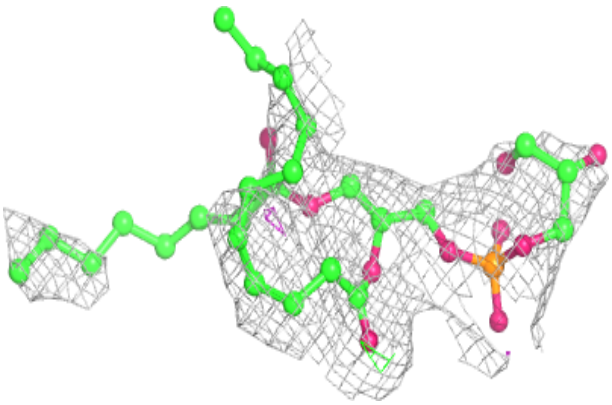


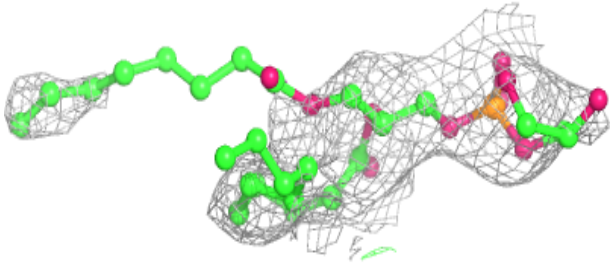


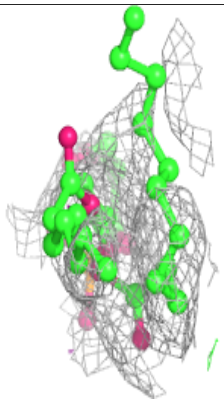


Electron density around LHG 2 2801:

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

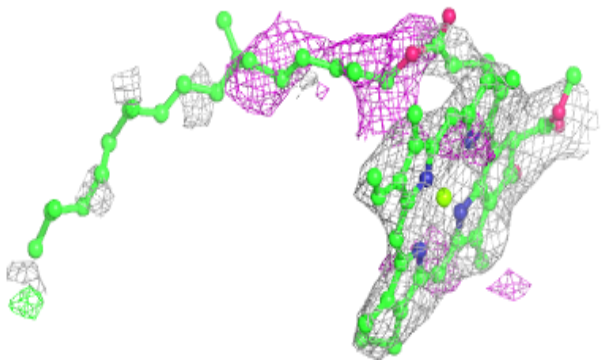


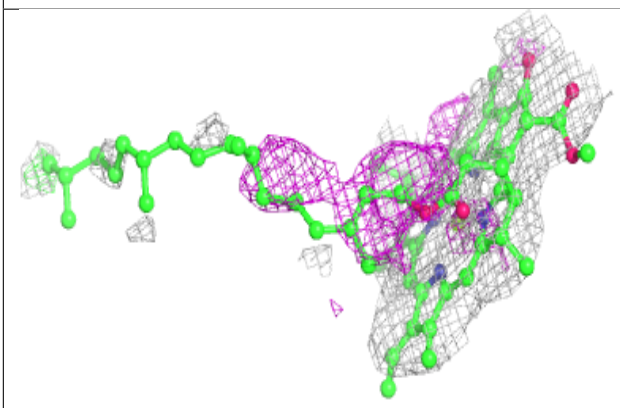


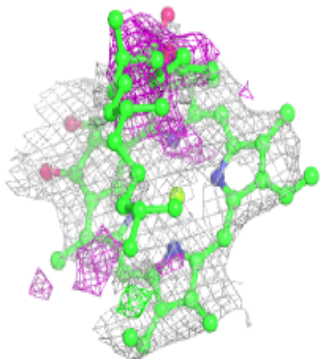


Electron density around CLA 4 4001:

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

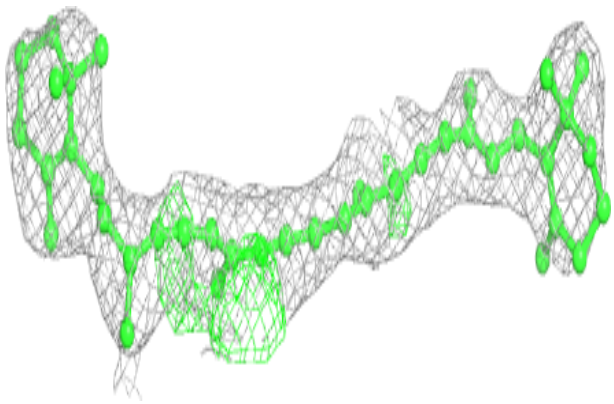


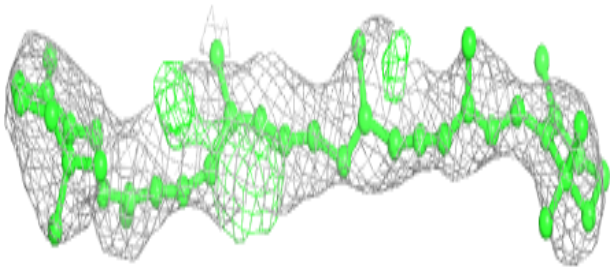


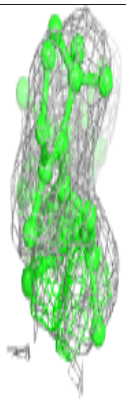


Electron density around BCR B 6010:

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

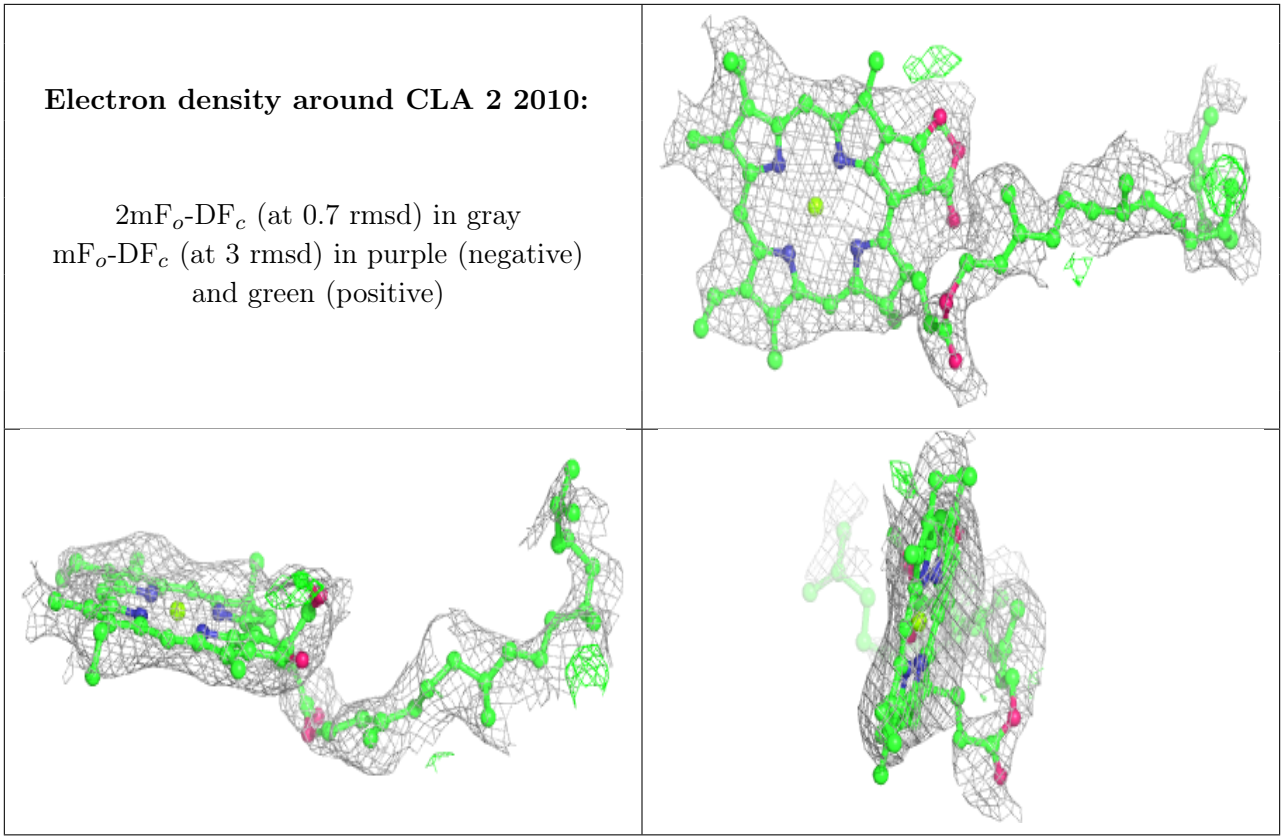






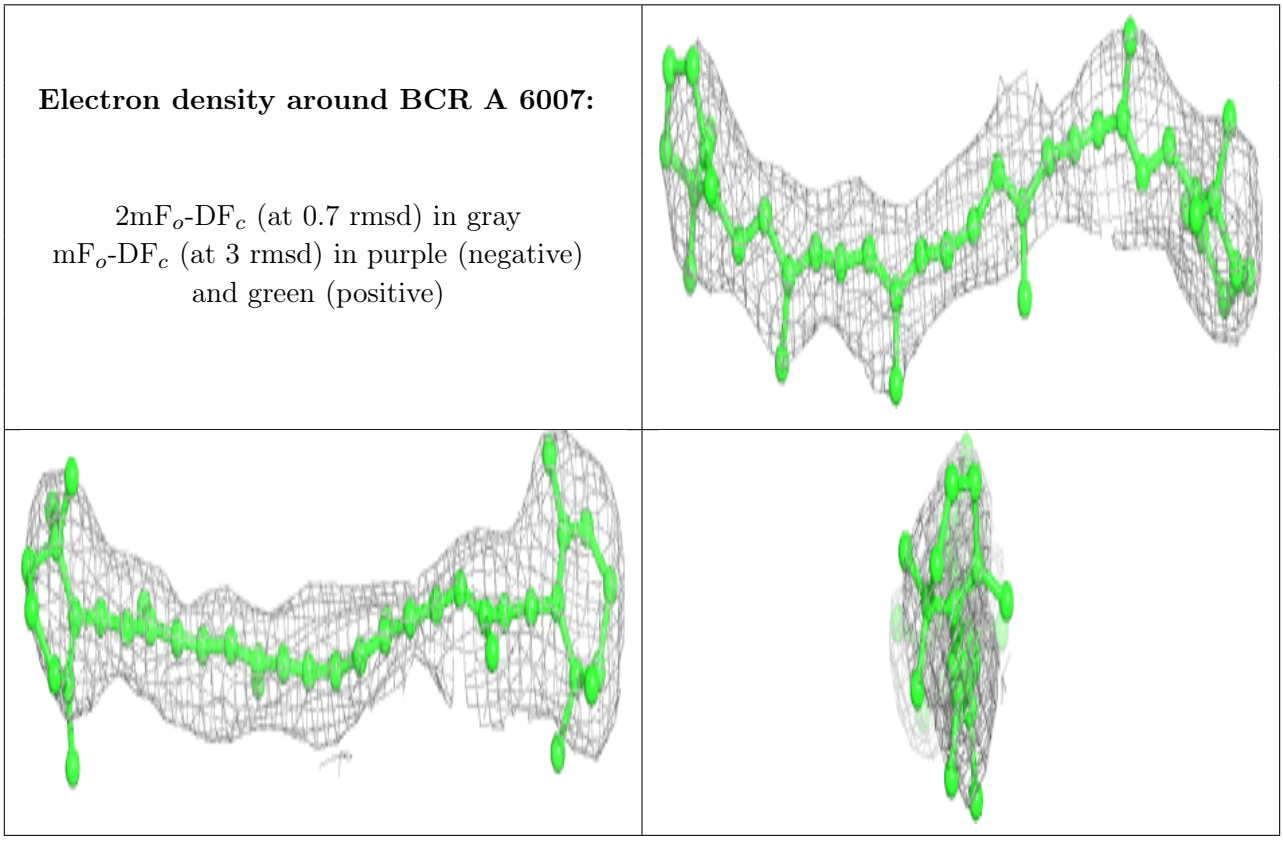
Electron density around CLA 2 2010:

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



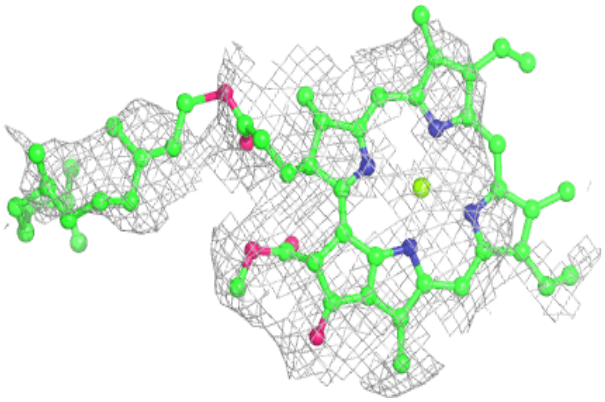
Electron density around BCR A 6007:

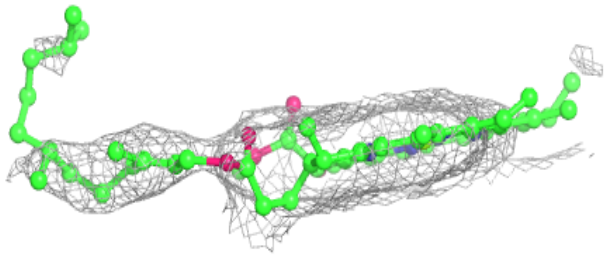
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

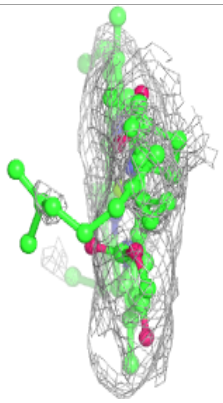


Electron density around CLA 2 2002:

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

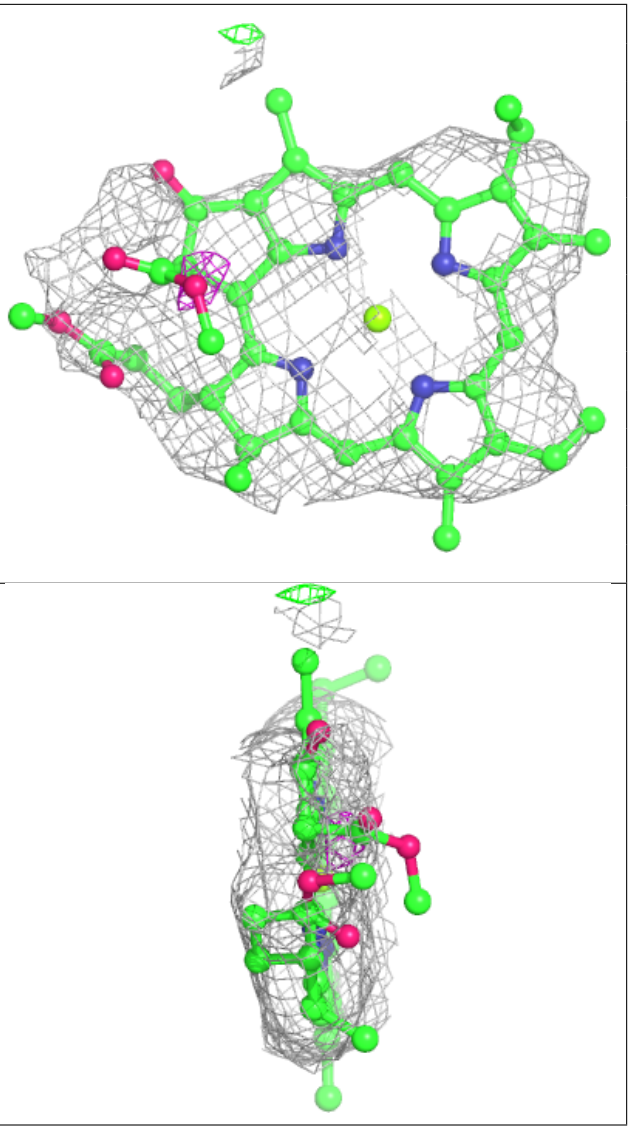






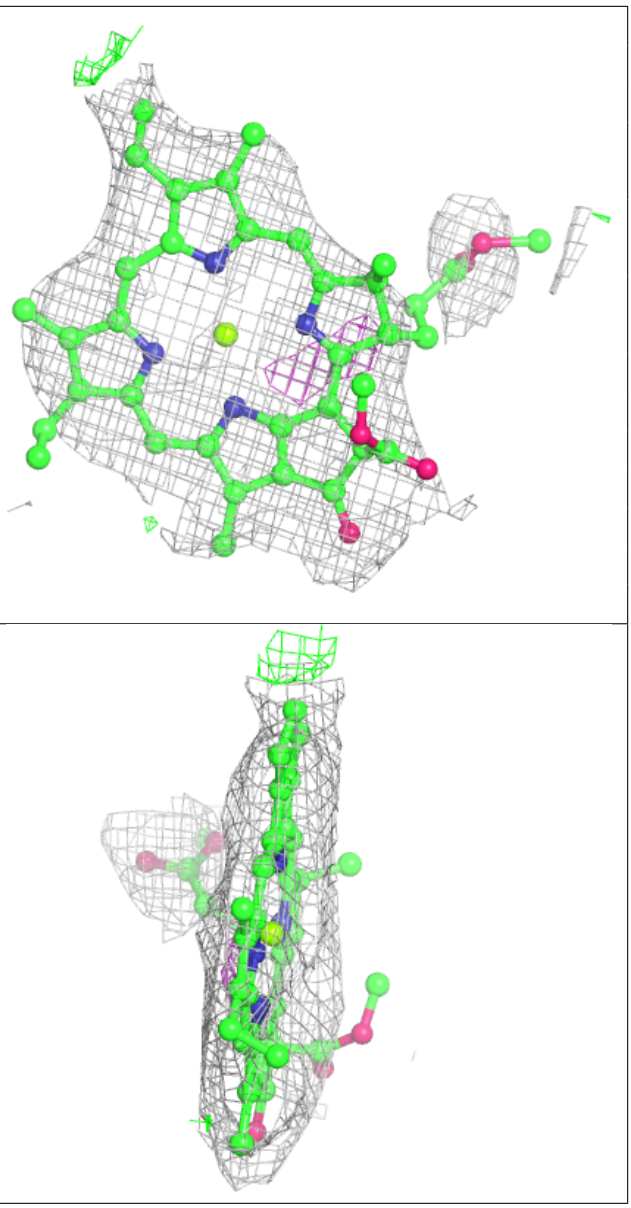
Electron density around CLA 3 3009:

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



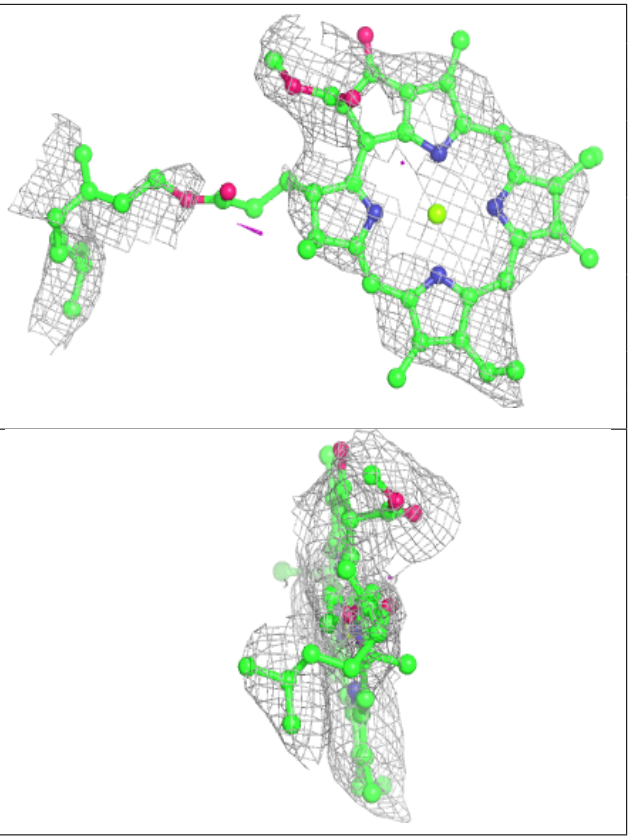
Electron density around CLA 2 2009:

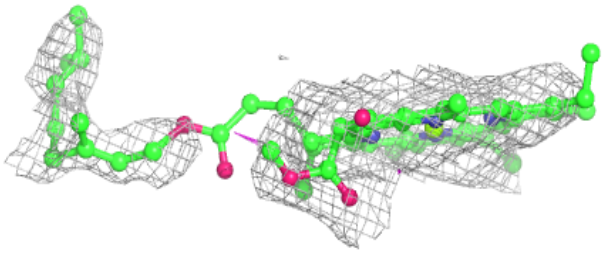
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 2 2007:

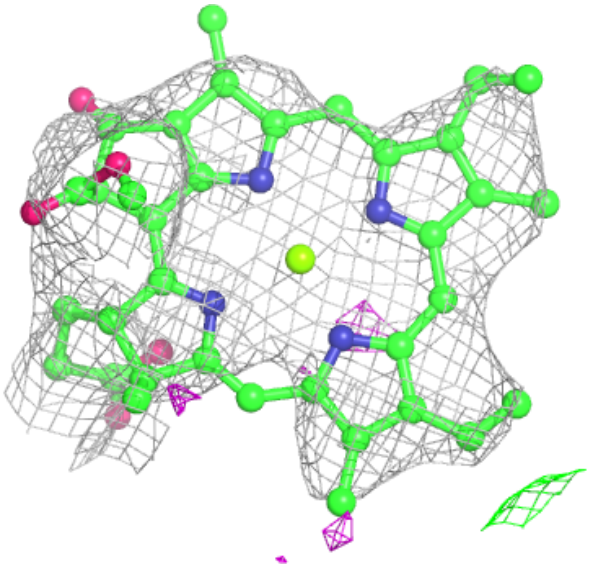
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

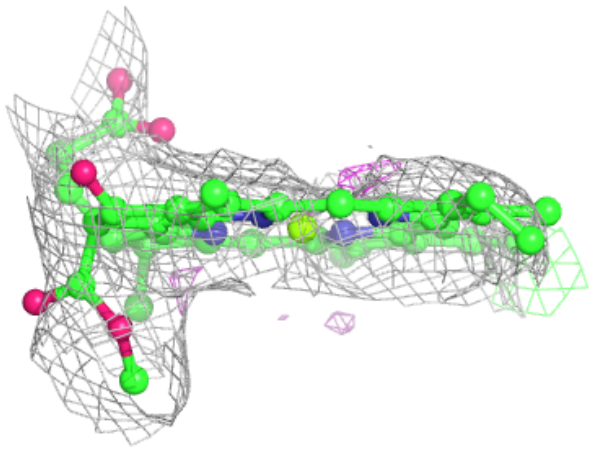


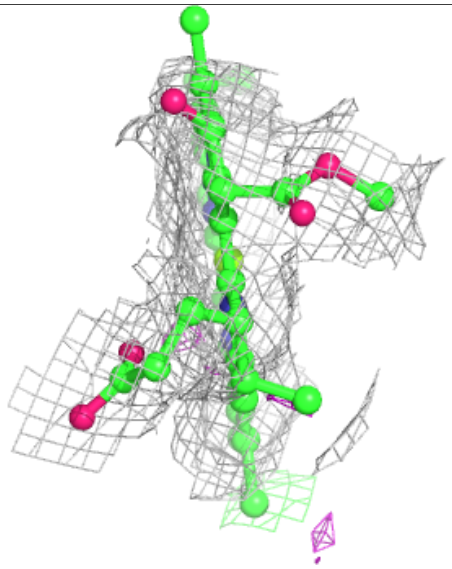


Electron density around CLA 4 4014:

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

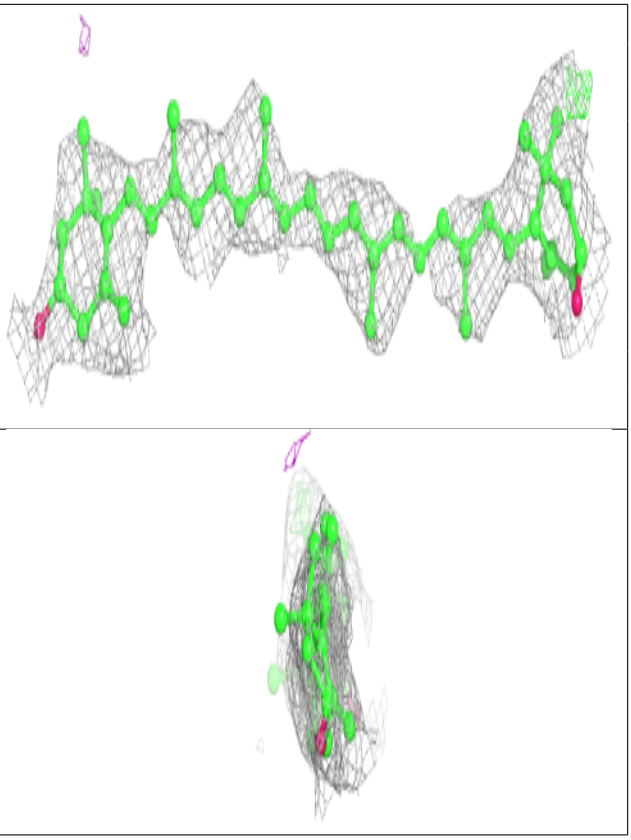






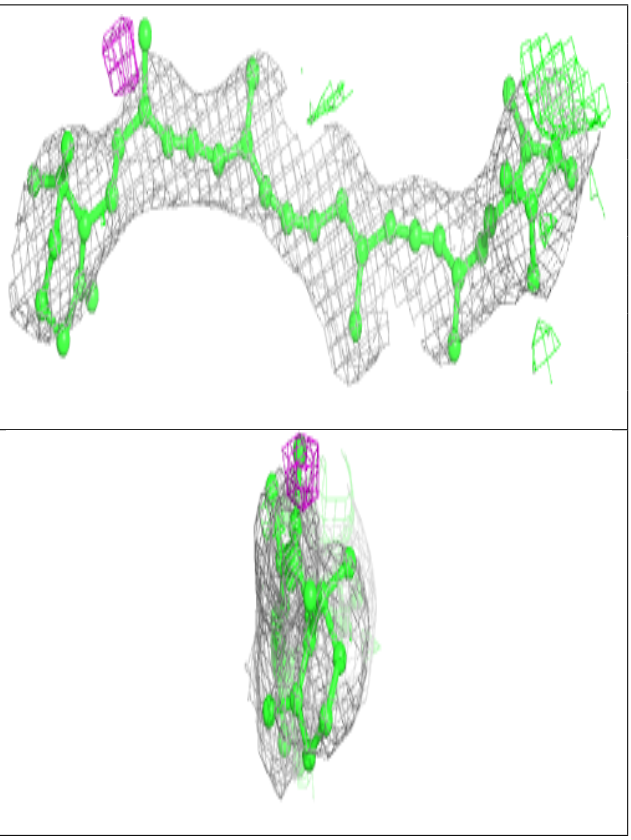
Electron density around LUT 2 2502:

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



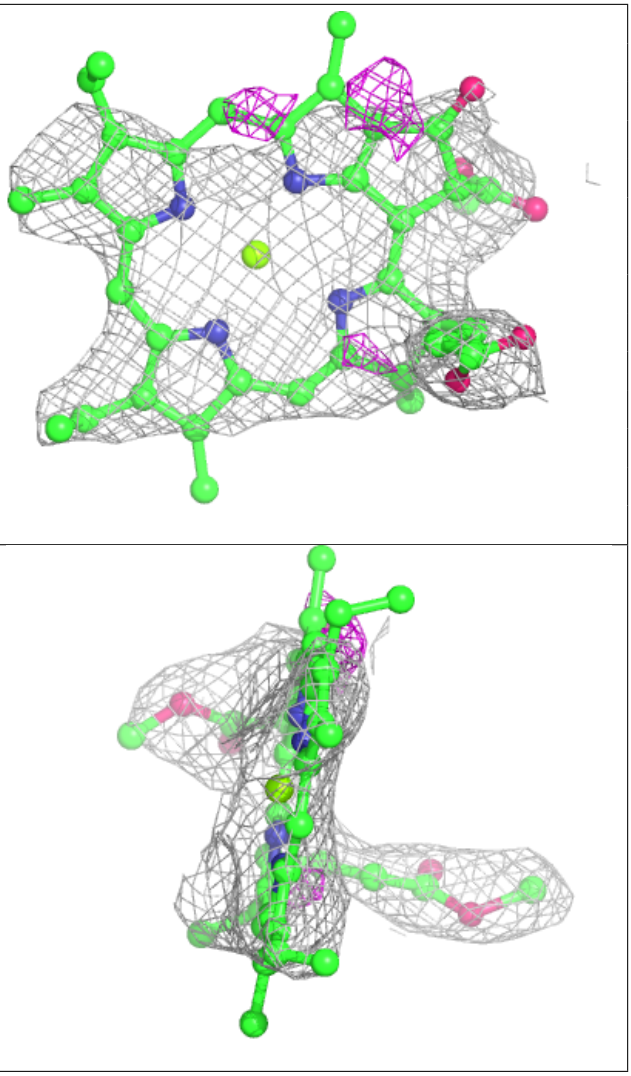
Electron density around BCR I 6018:

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



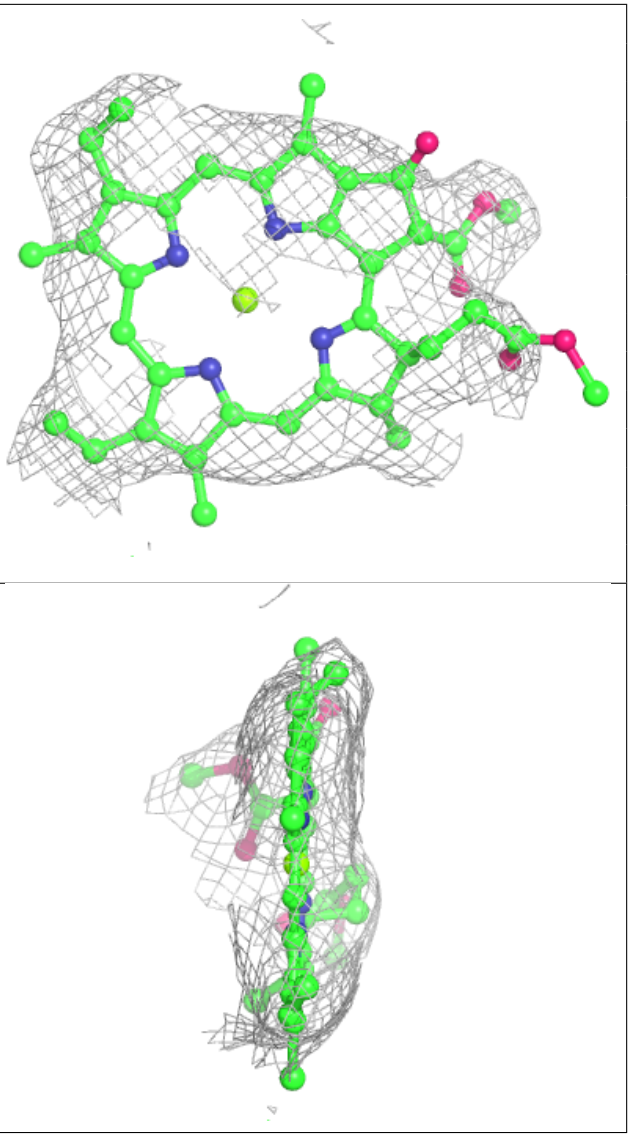
Electron density around CLA A 1112:

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



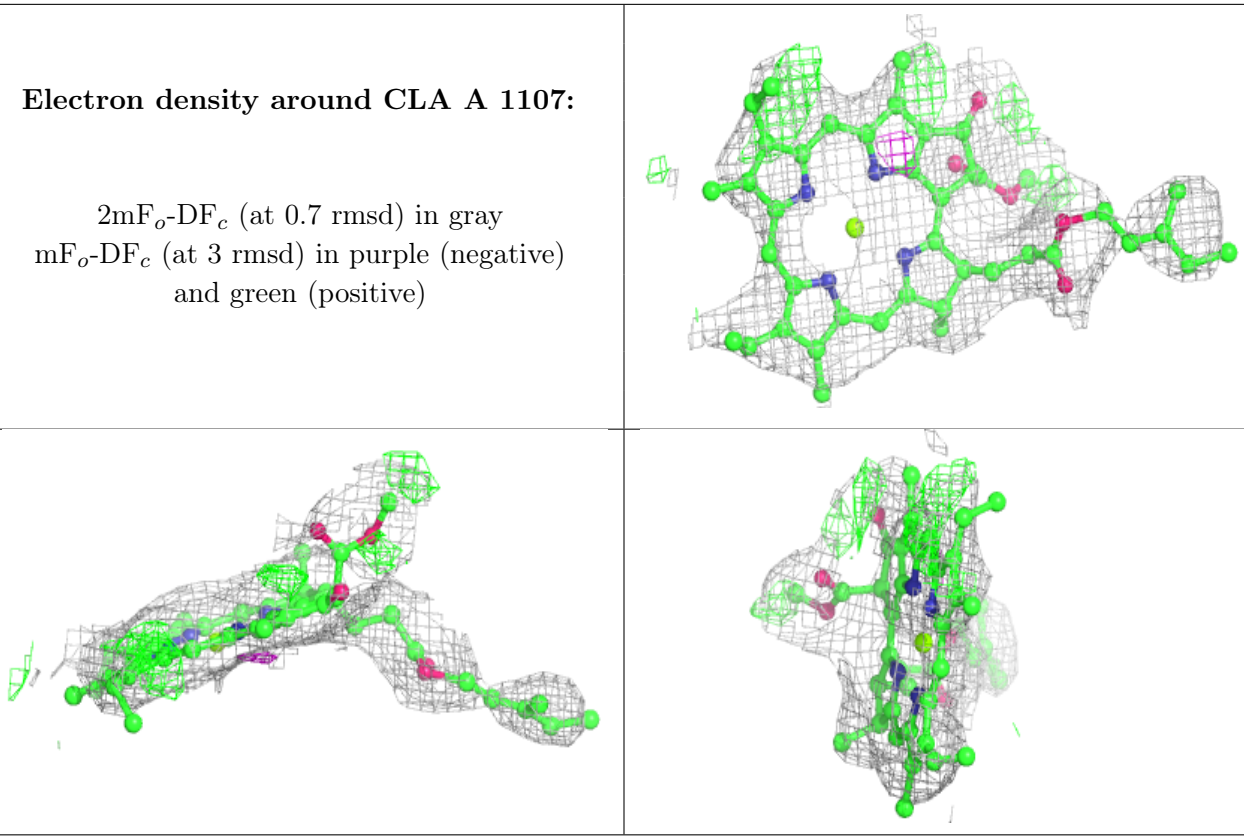
Electron density around CLA G 1002:

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



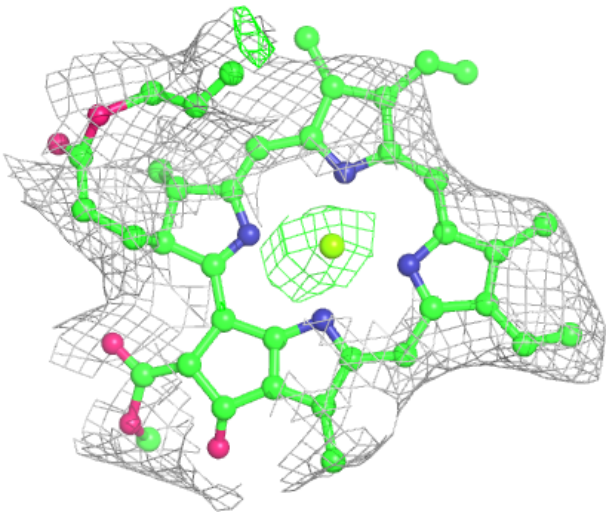
Electron density around CLA A 1107:

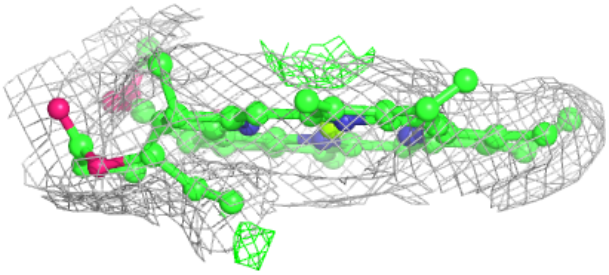
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 4 4008:

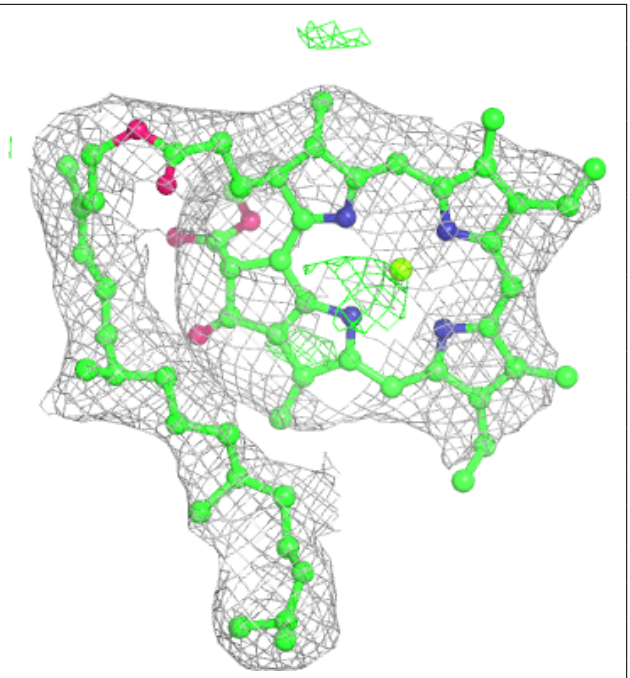
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

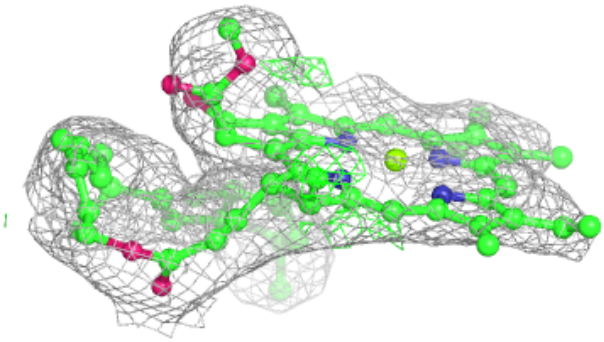


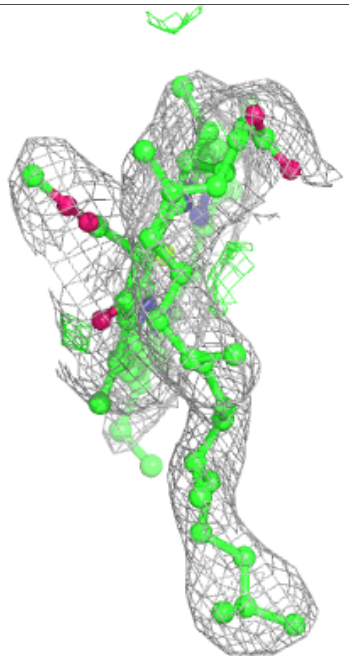


Electron density around CLA A 1123:

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

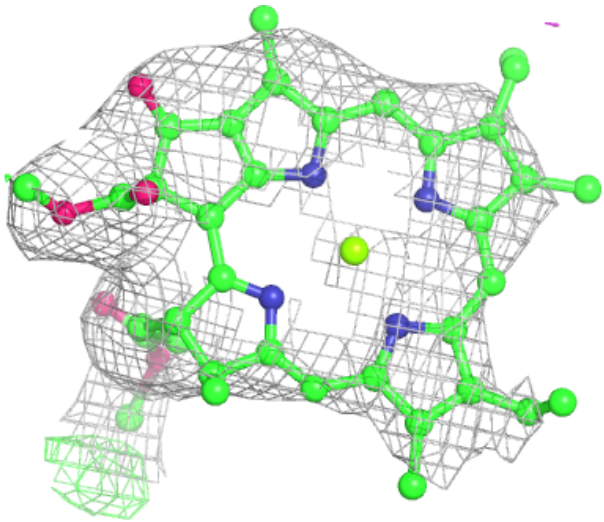


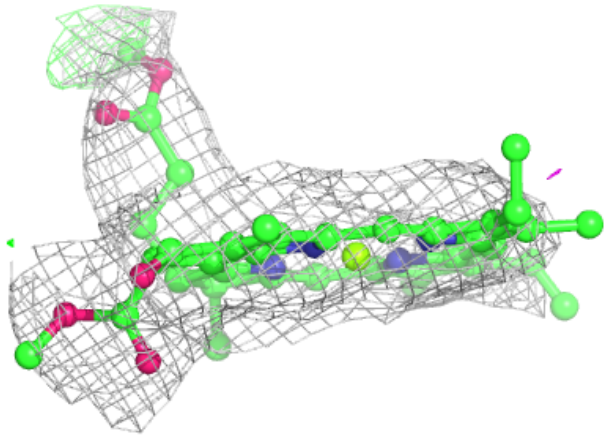


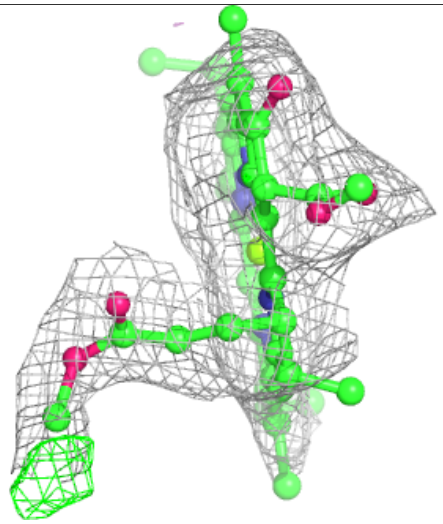


Electron density around CLA A 1133:

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

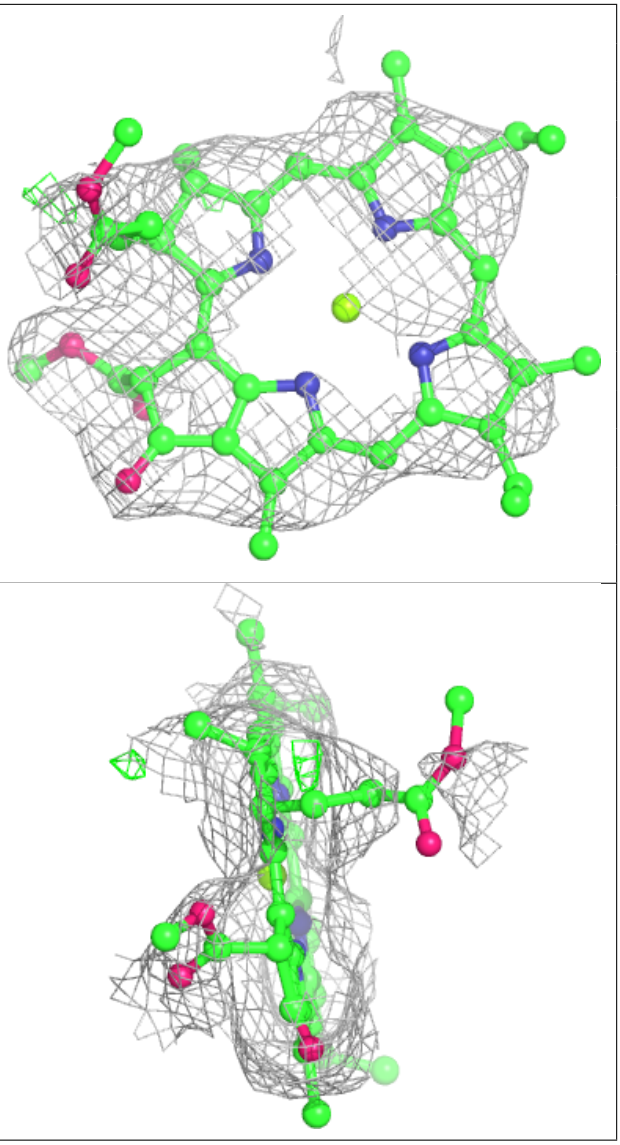






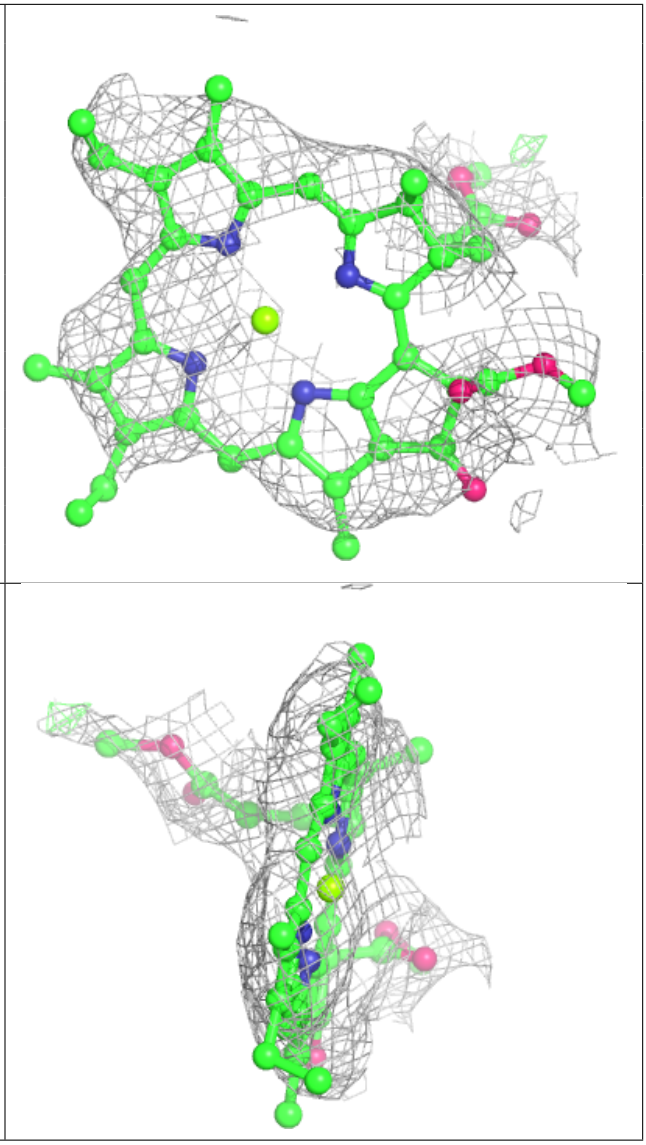
Electron density around CLA A 1134:

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



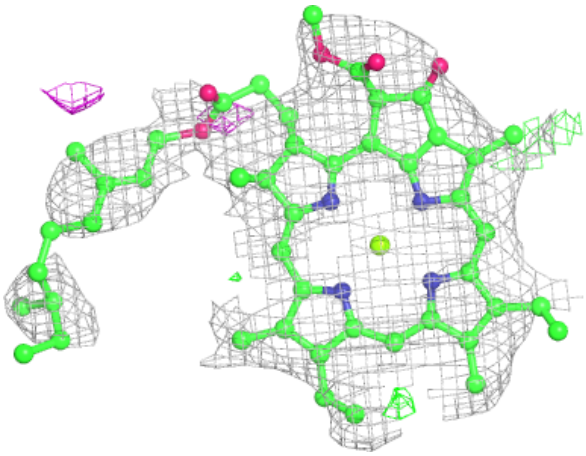
Electron density around CLA A 1108:

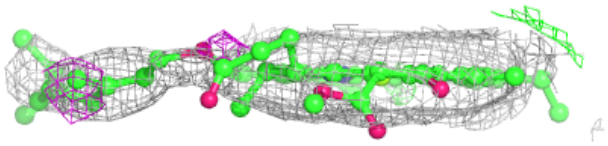
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

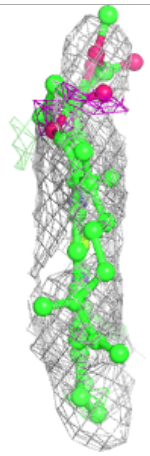


Electron density around CLA 4 4002:

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

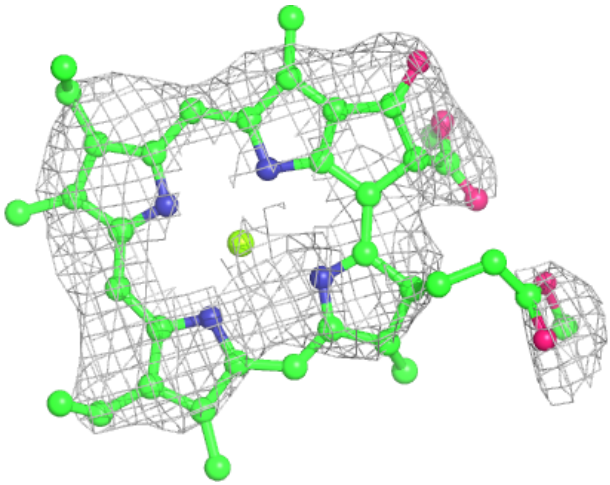


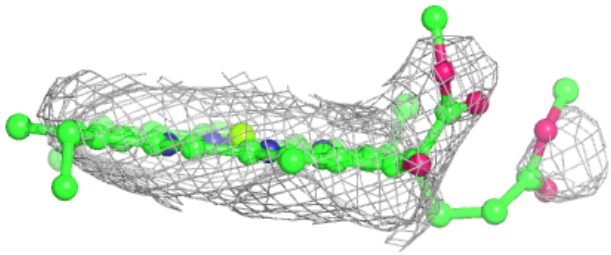


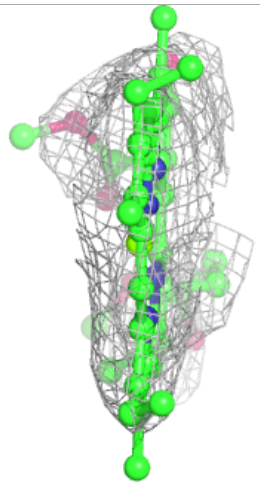


Electron density around CLA A 1113:

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

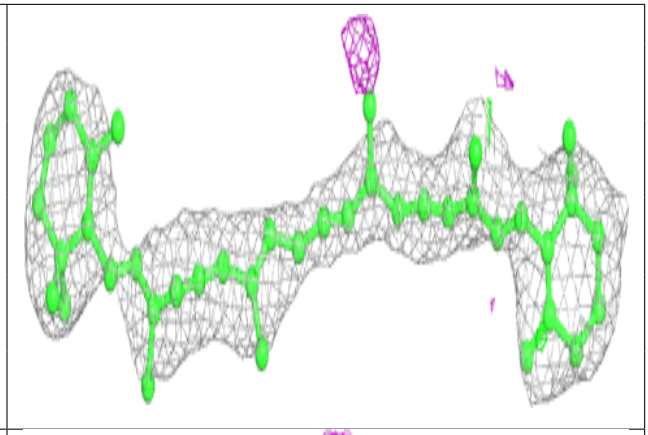


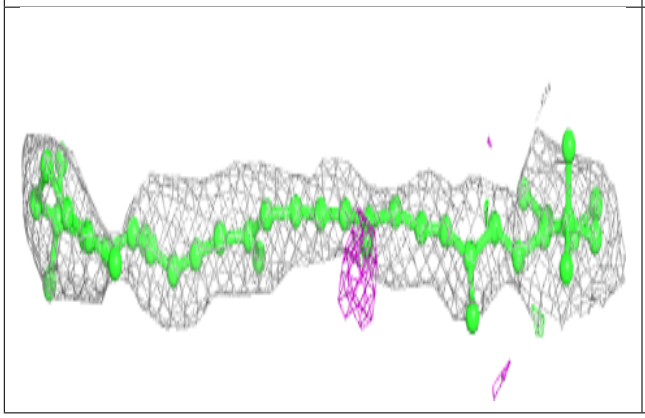


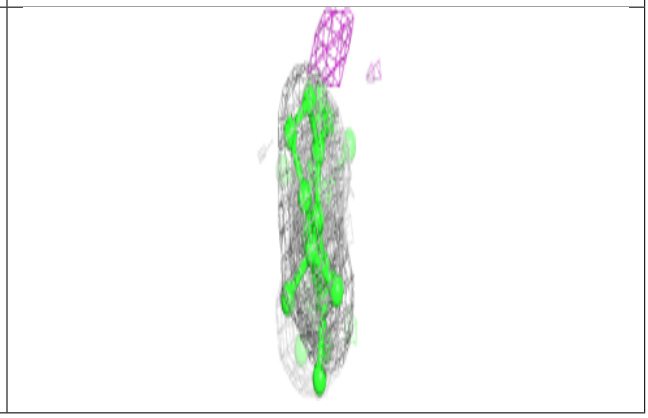


Electron density around BCR L 6019:

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

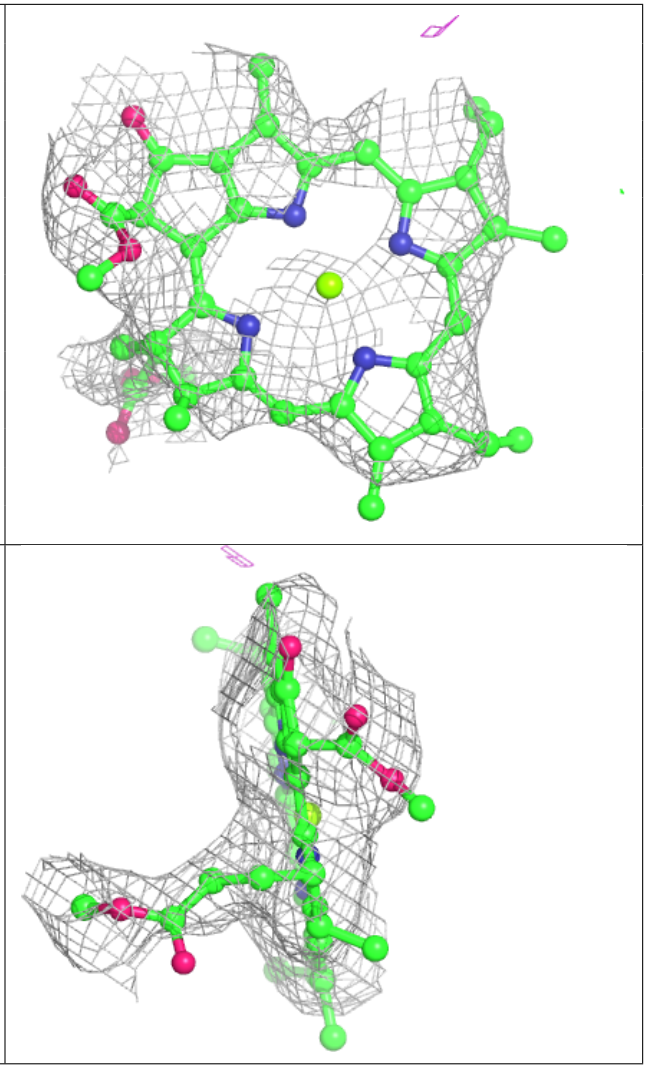






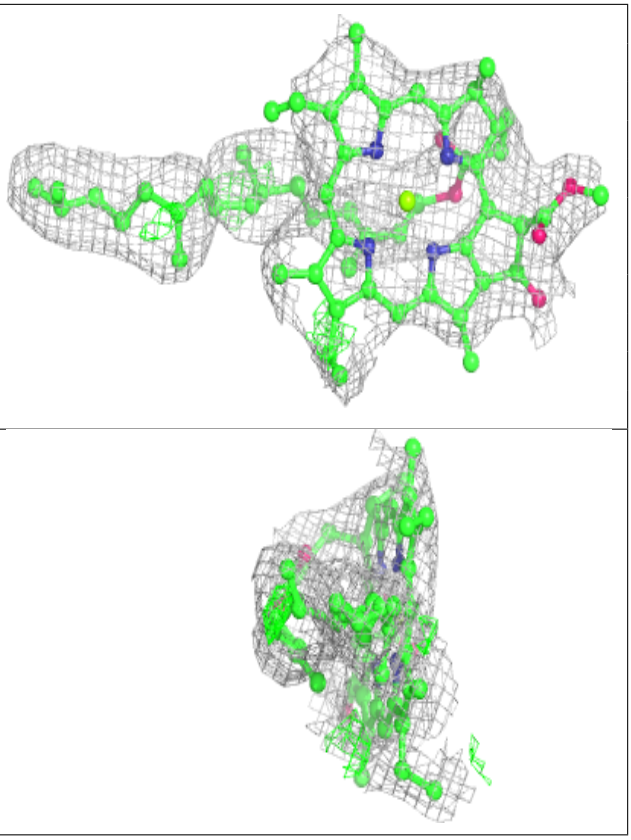
Electron density around CLA A 1121:

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



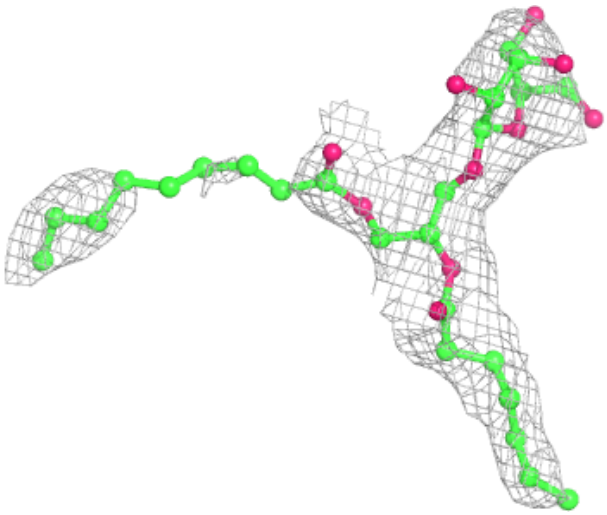
Electron density around CLA A 1136:

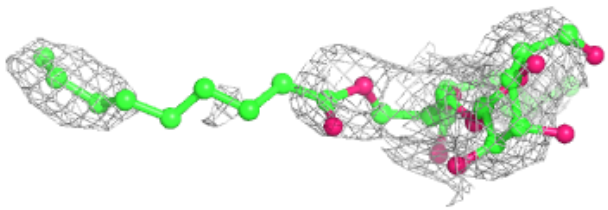
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

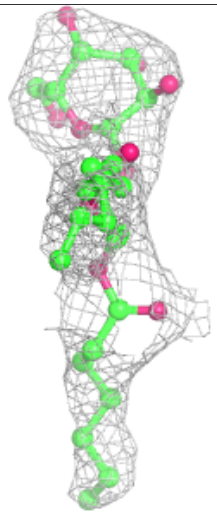


Electron density around LMG J 5001:

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

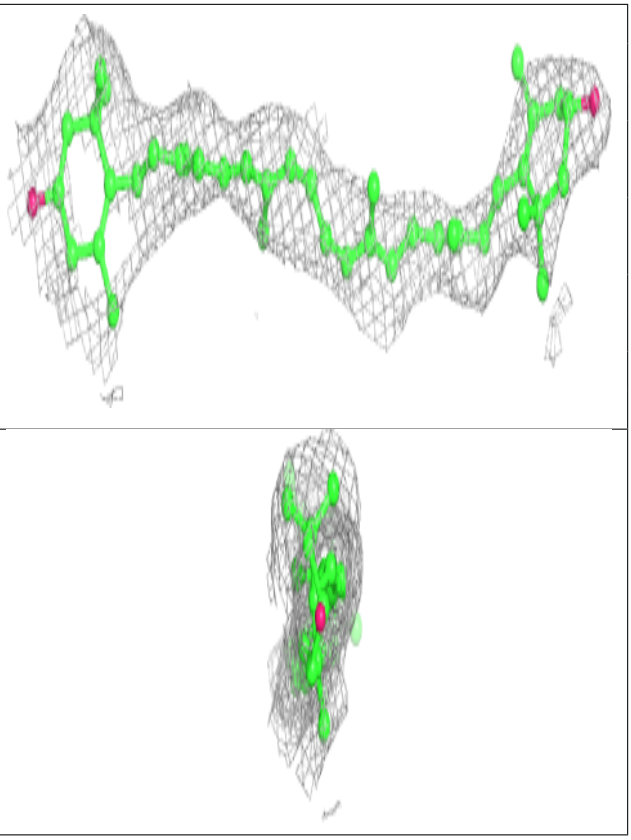






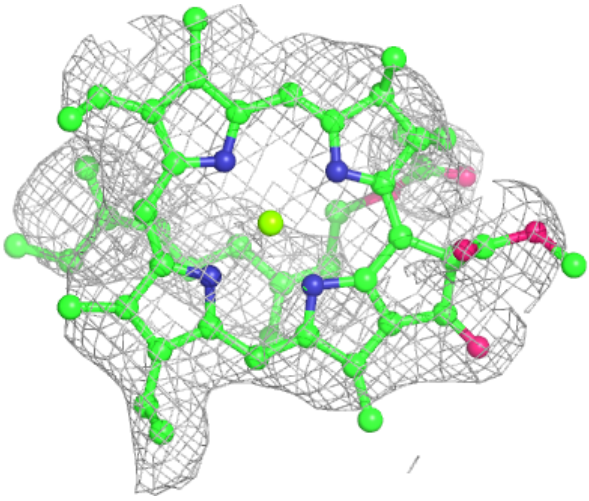
Electron density around LUT 1 1501:

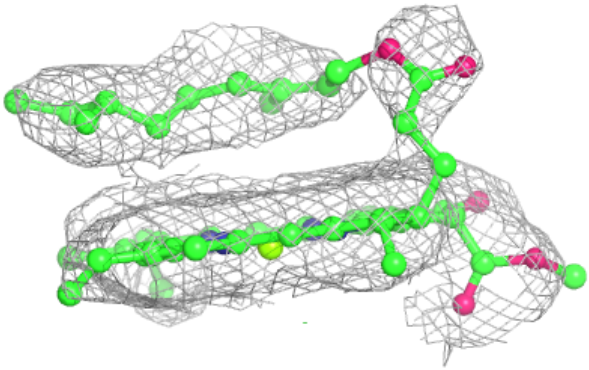
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

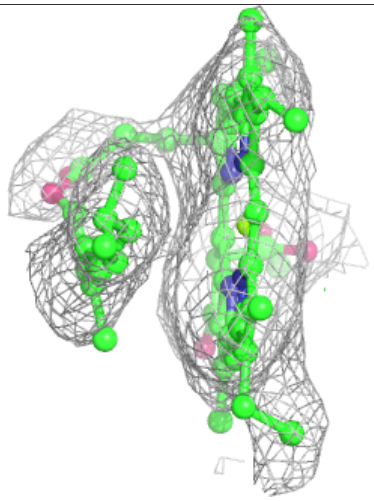


Electron density around CLA A 1115:

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

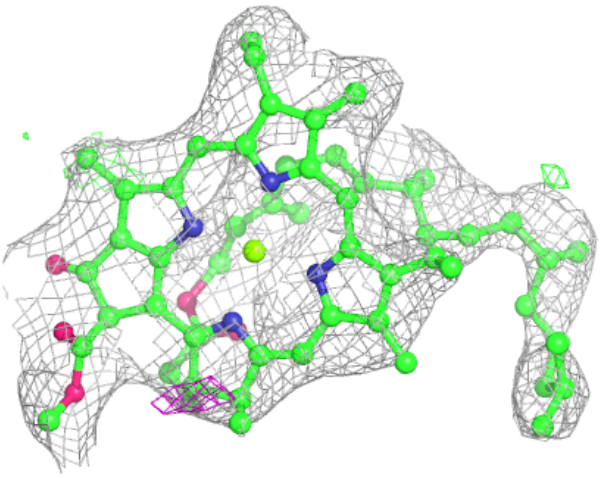


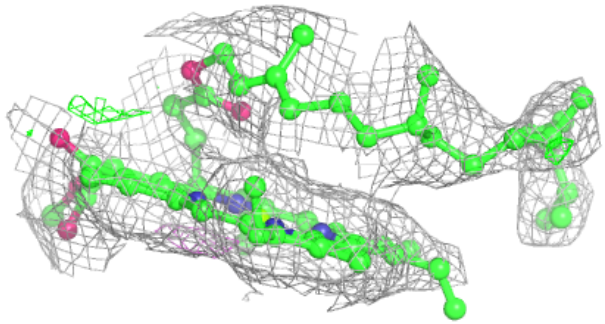


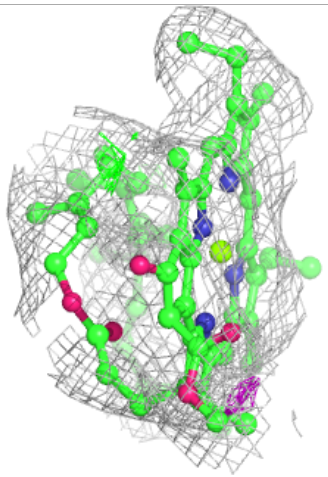


Electron density around CLA 1 1003:

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

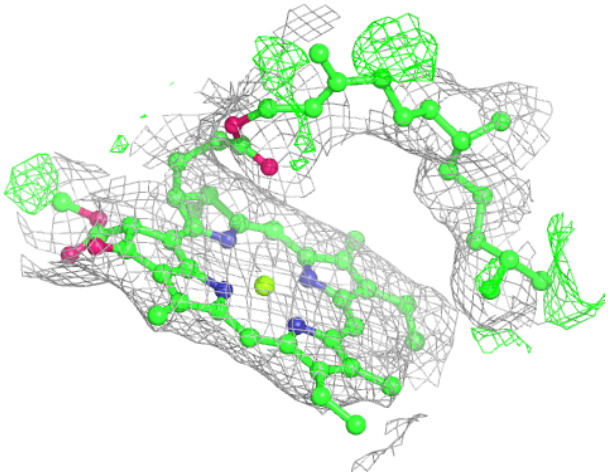


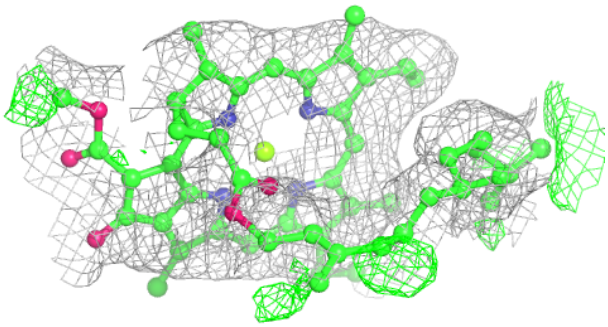


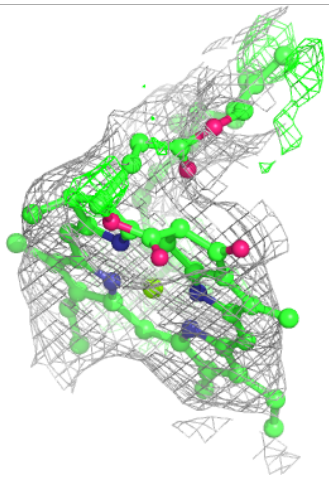


Electron density around CLA 2 2011:

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

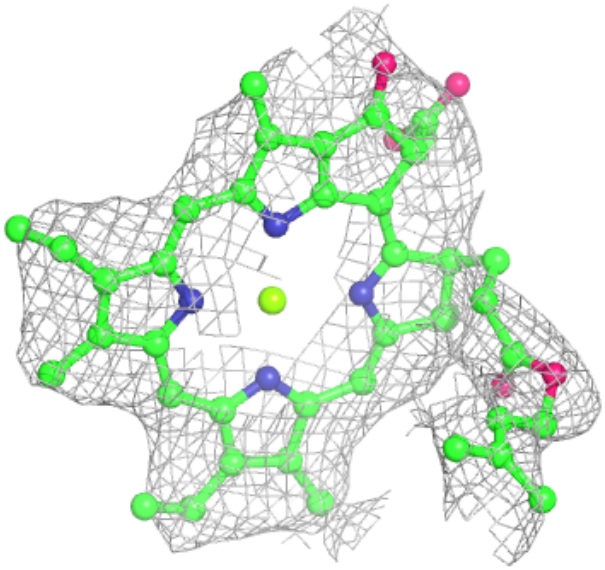


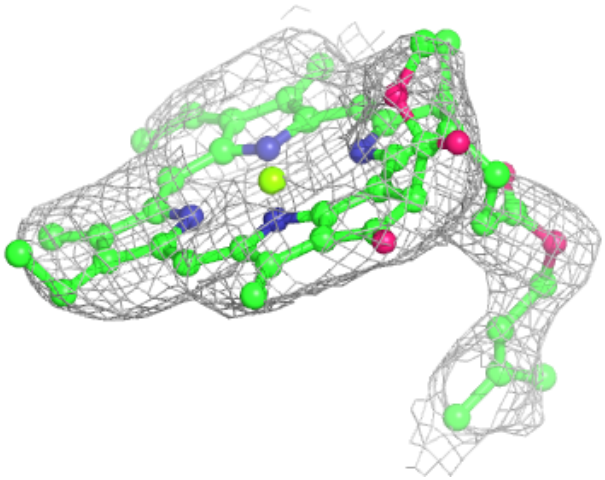


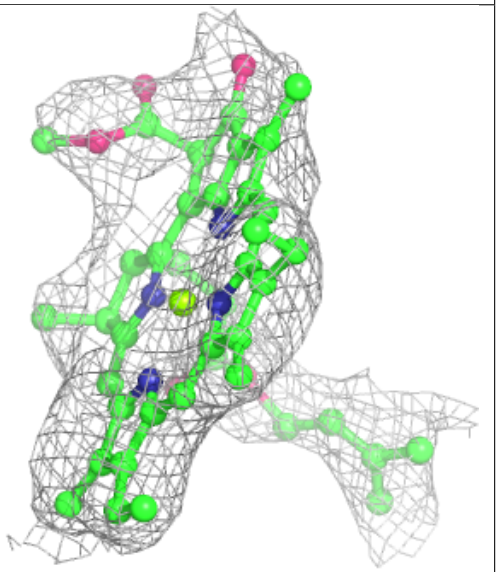


Electron density around CLA A 1129:

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

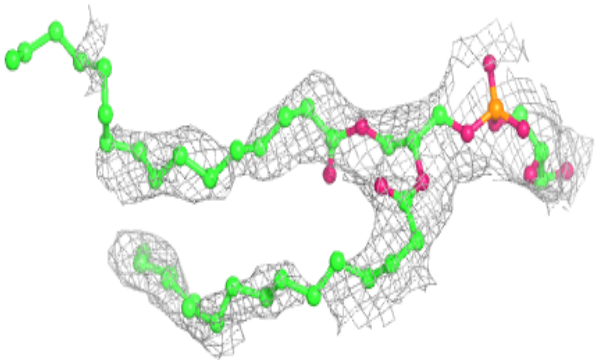


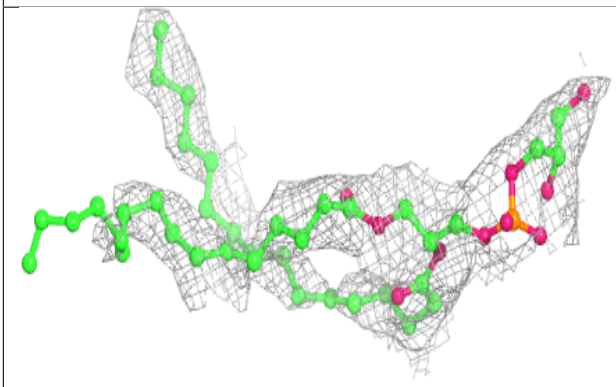


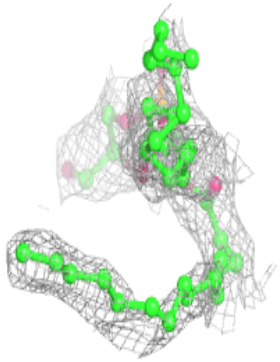


Electron density around LHG A 7003:

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

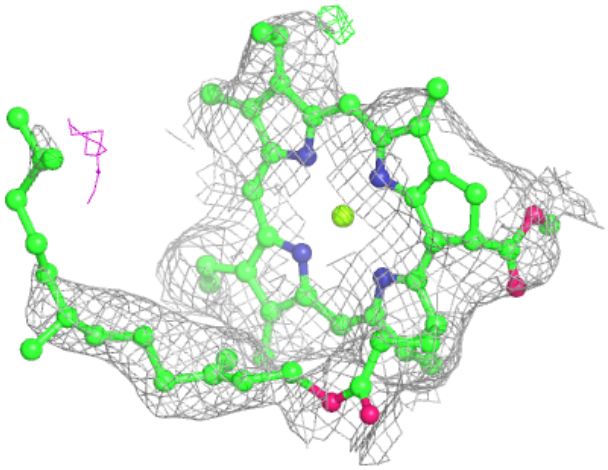


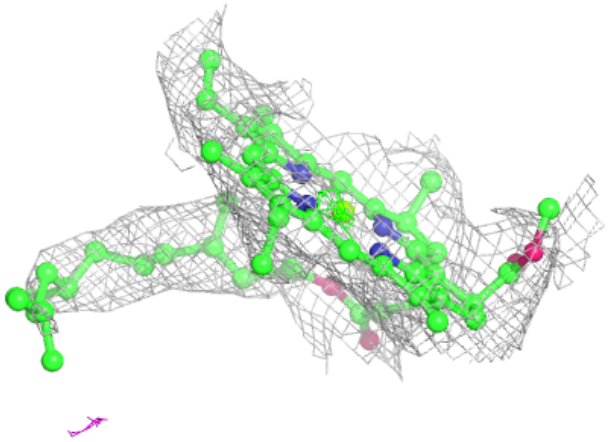


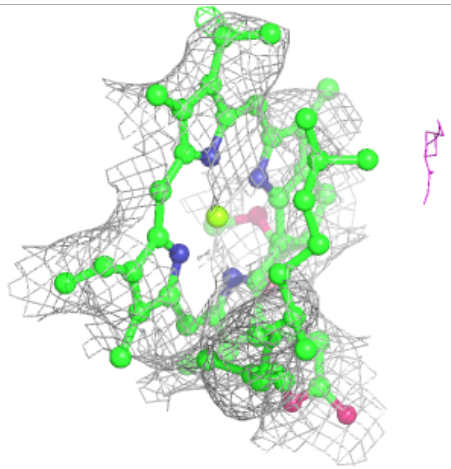


Electron density around CLA 2 2004:

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

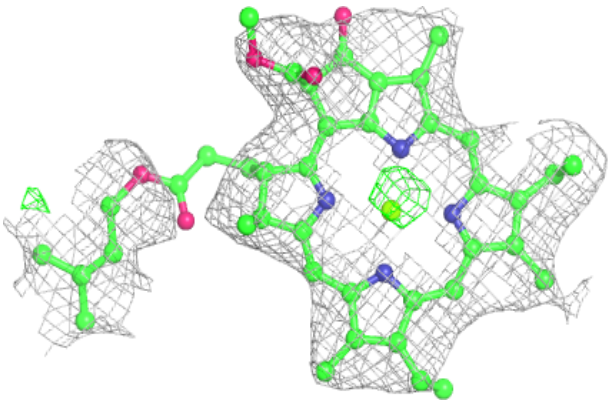


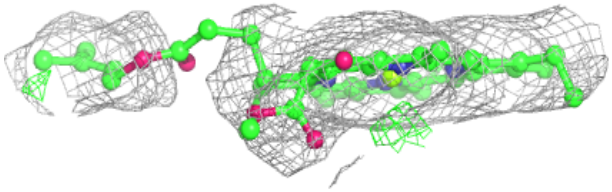


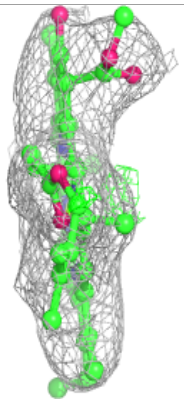


Electron density around CLA 4 4010:

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

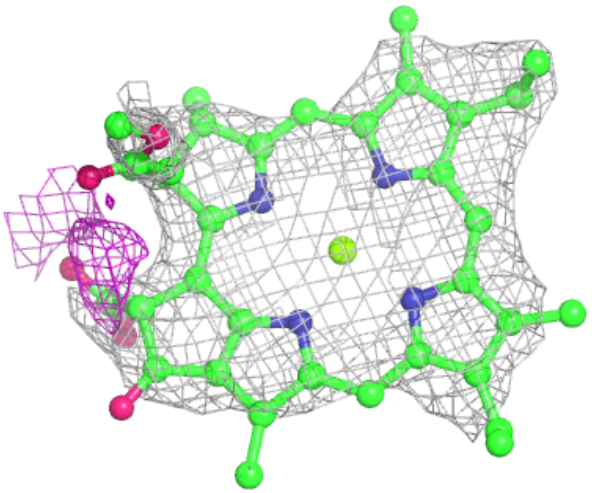


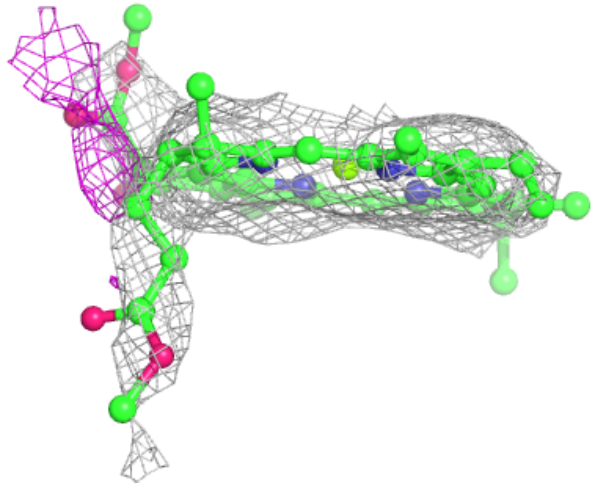


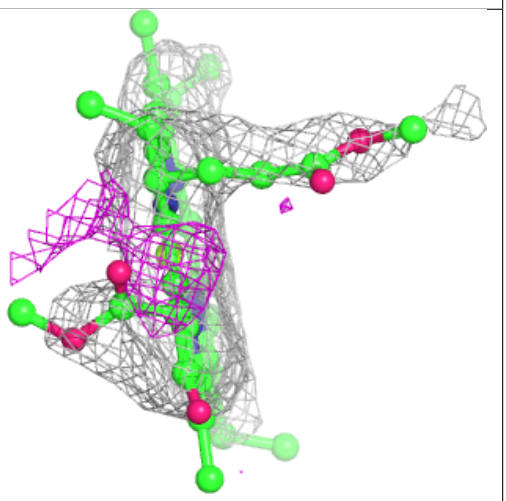


Electron density around CLA B 1212:

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

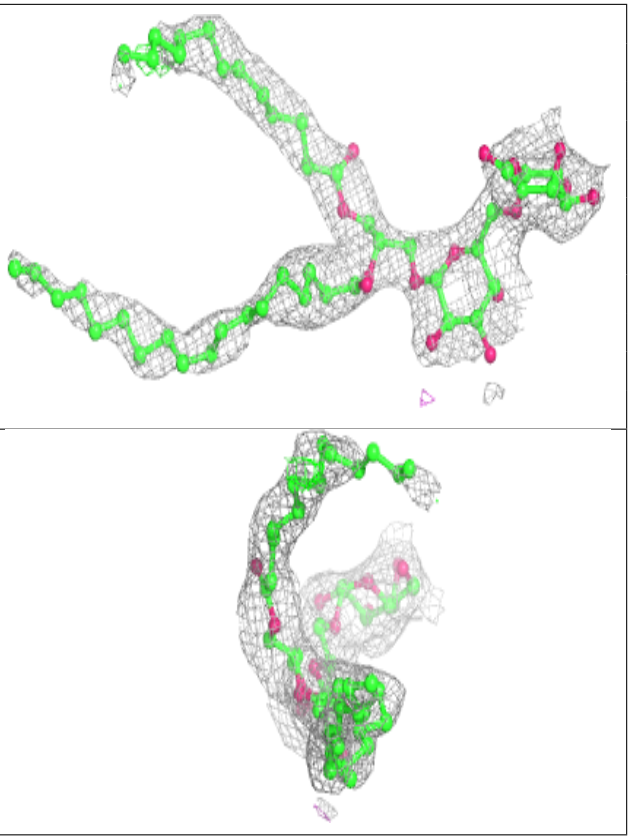


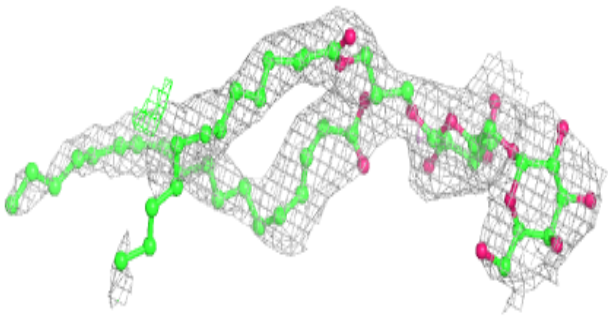




Electron density around DGD B 7101:

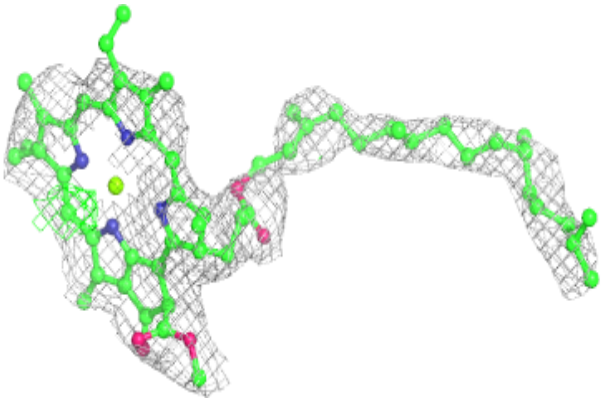
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

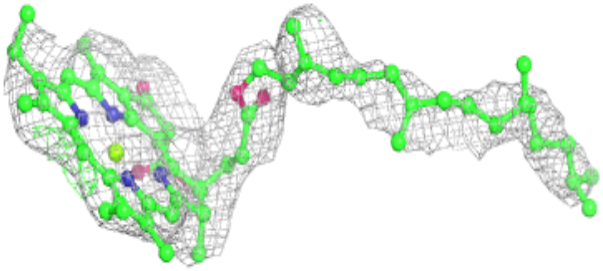


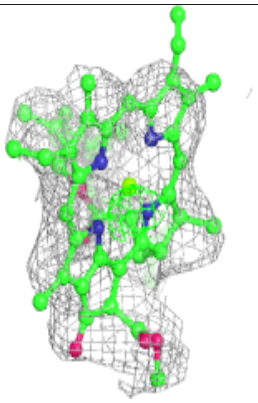


Electron density around CLA A 1119:

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

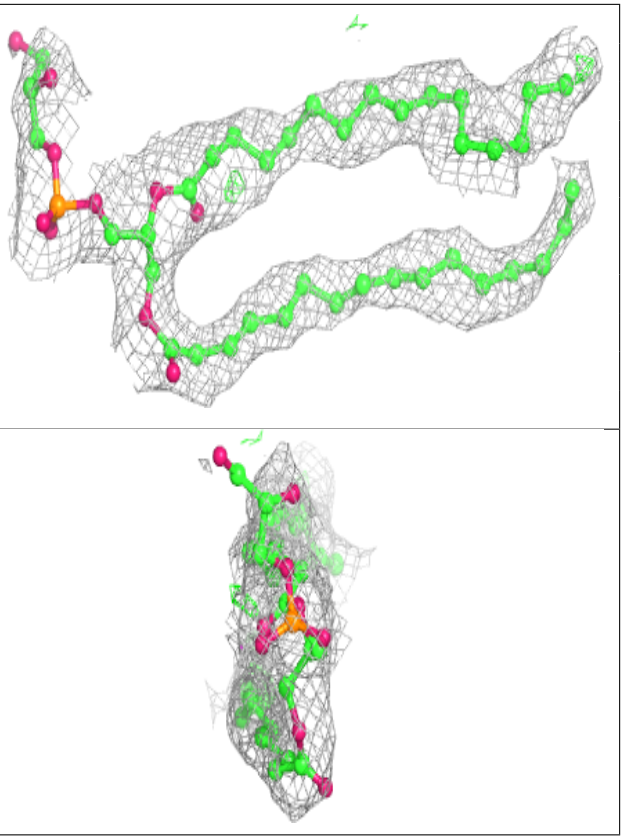


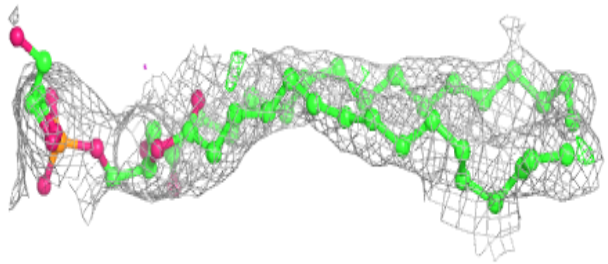




Electron density around LHG 1 1801:

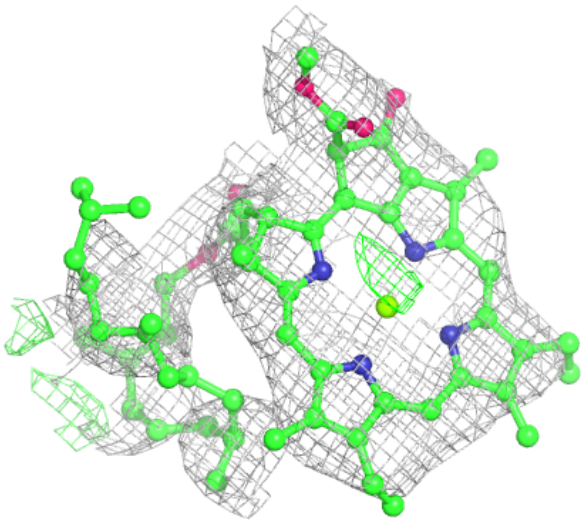
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

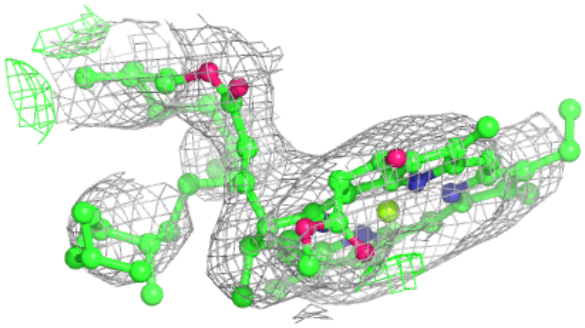


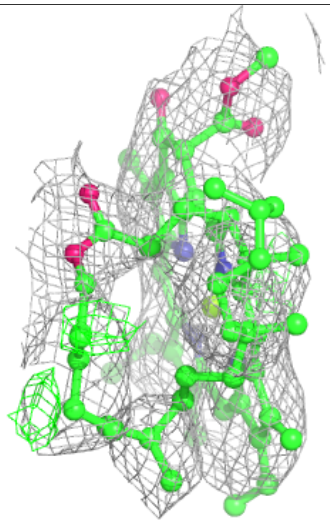


Electron density around CLA 1 1011:

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

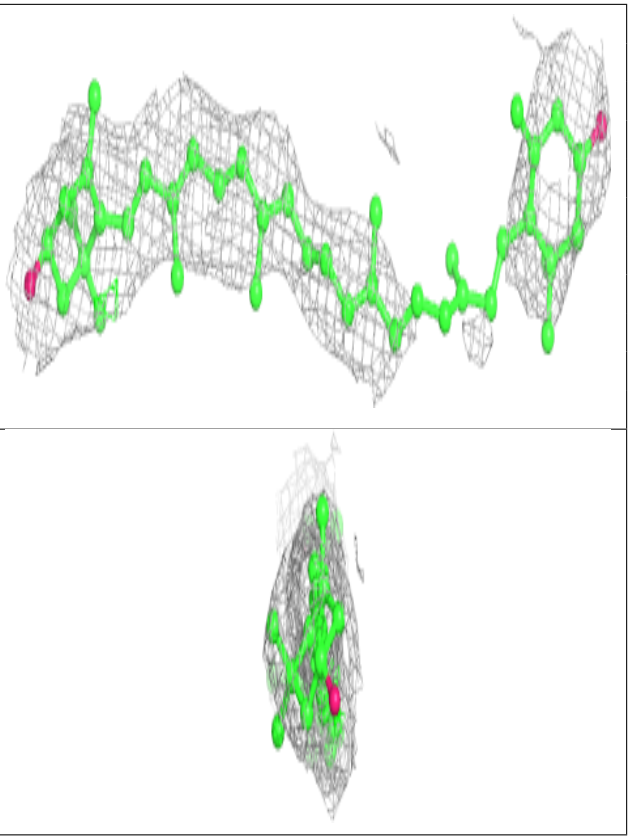


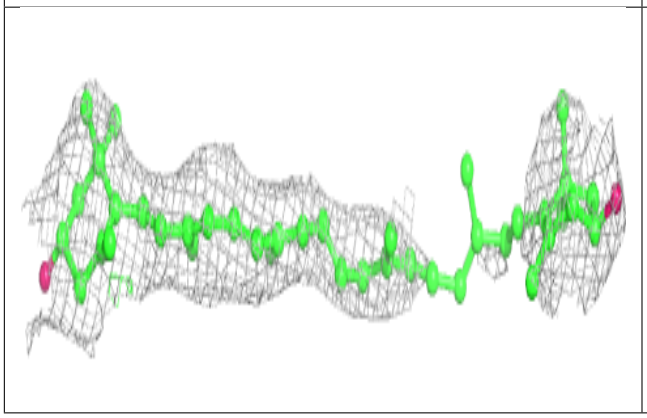




Electron density around LUT 1 1502:

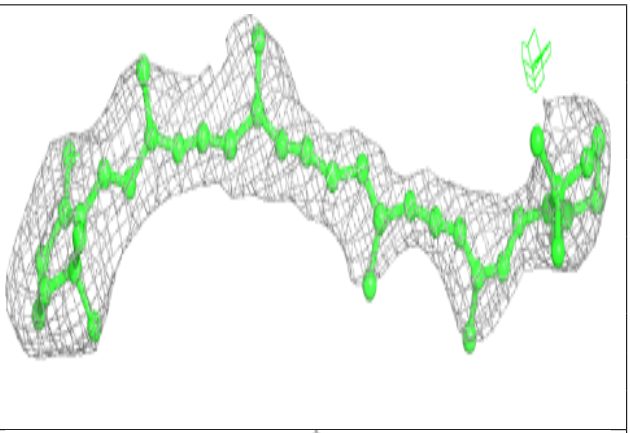
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

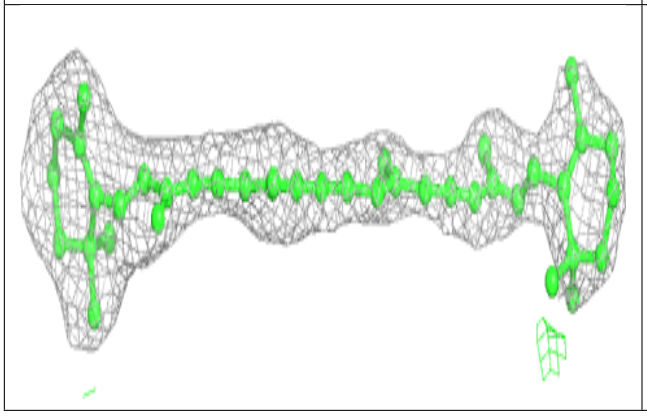


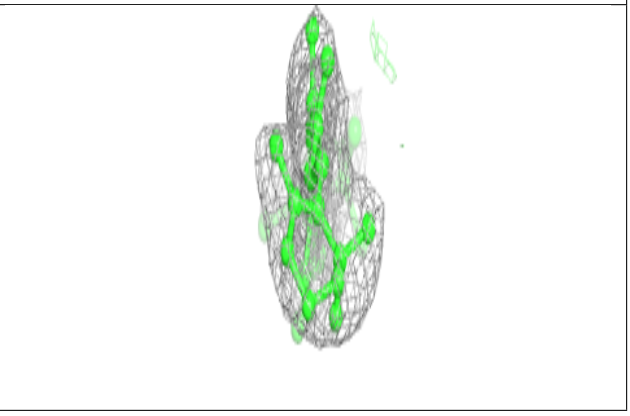


Electron density around BCR B 6009:

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

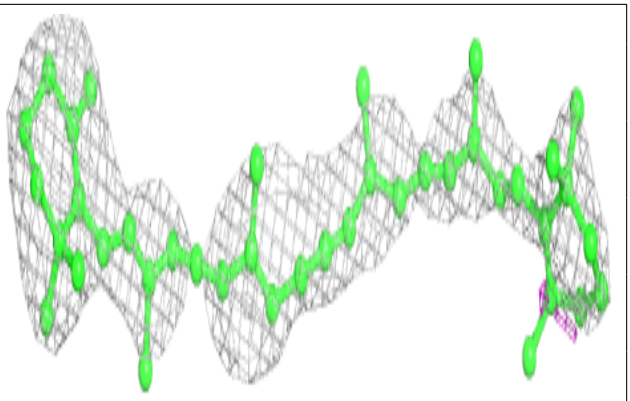


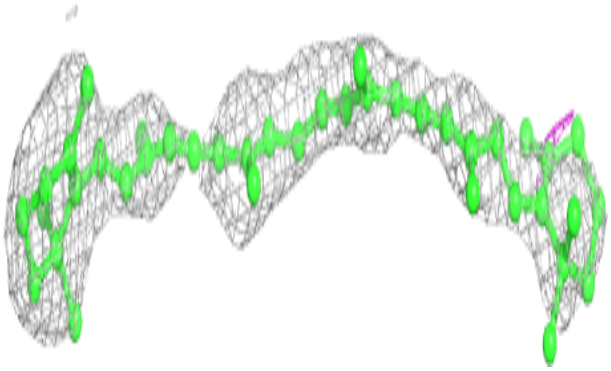


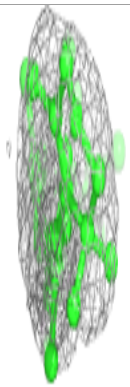


Electron density around BCR B 6004:

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

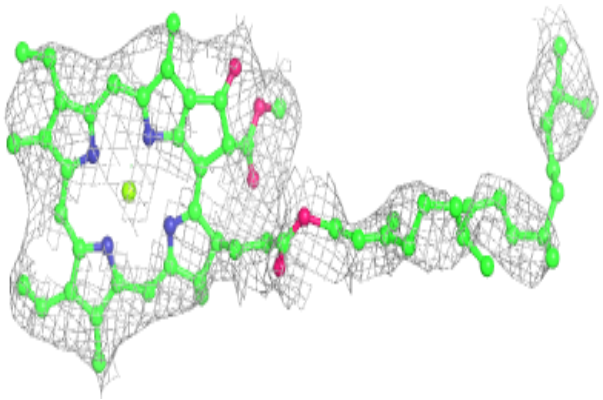


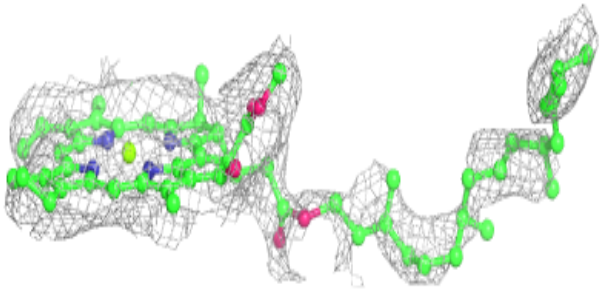


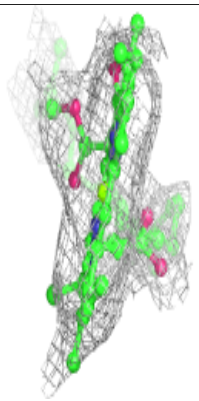


Electron density around CLA 2 2013:

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

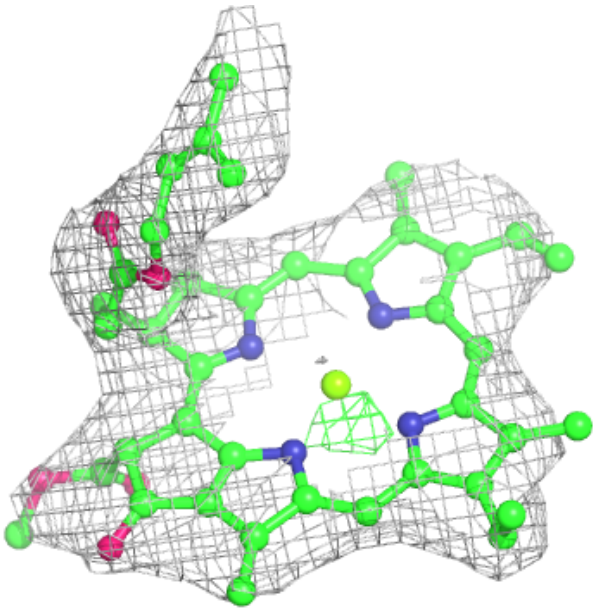


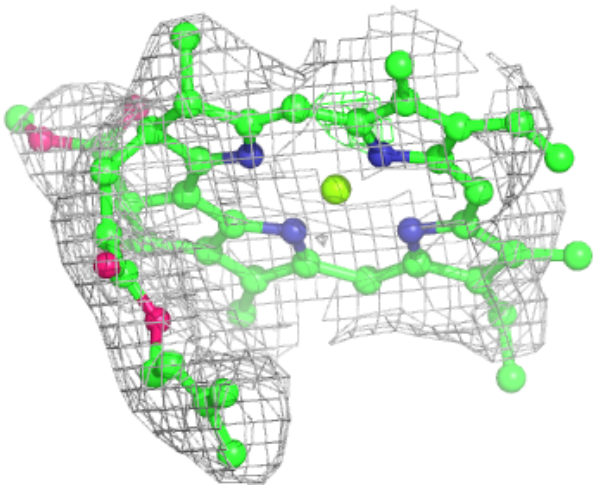


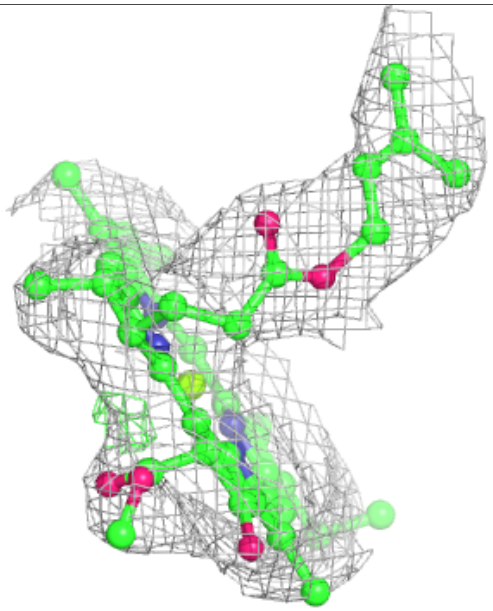


Electron density around CLA L 1503:

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

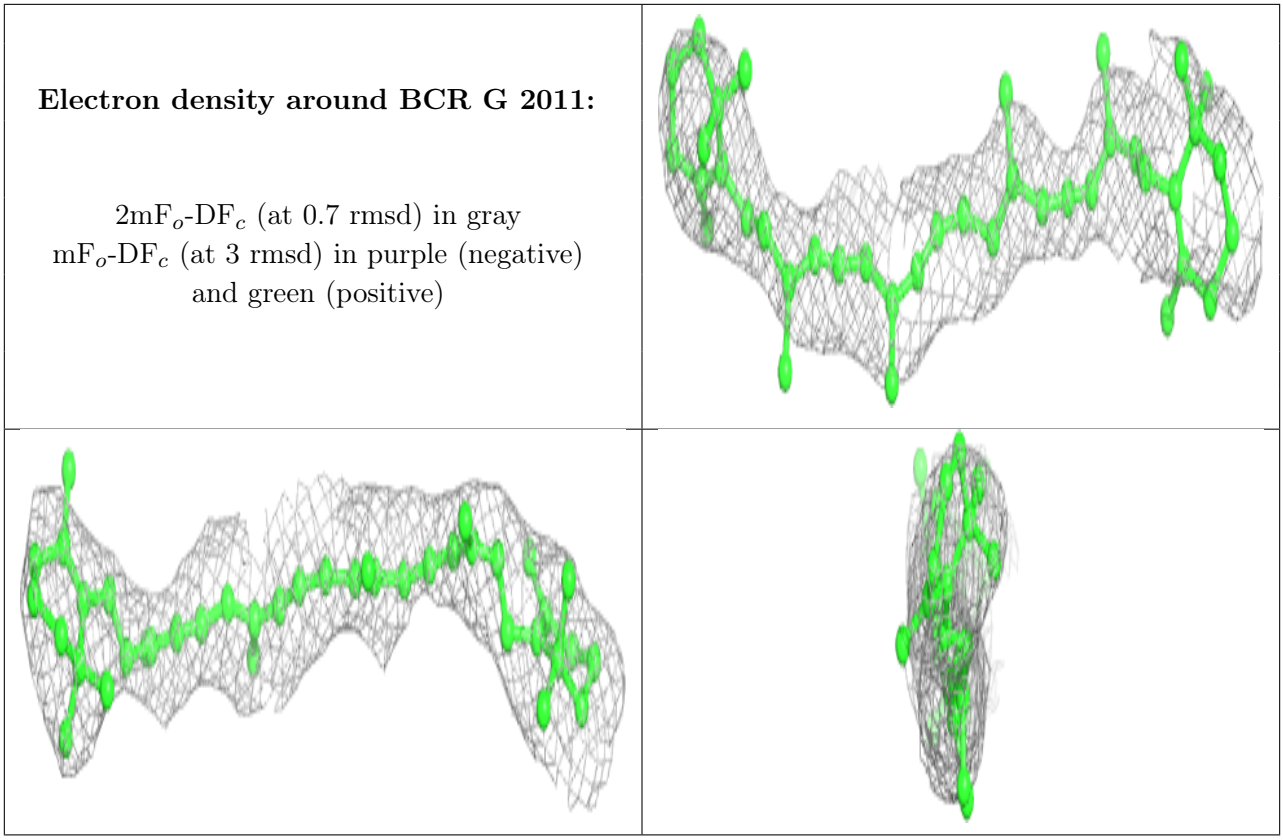






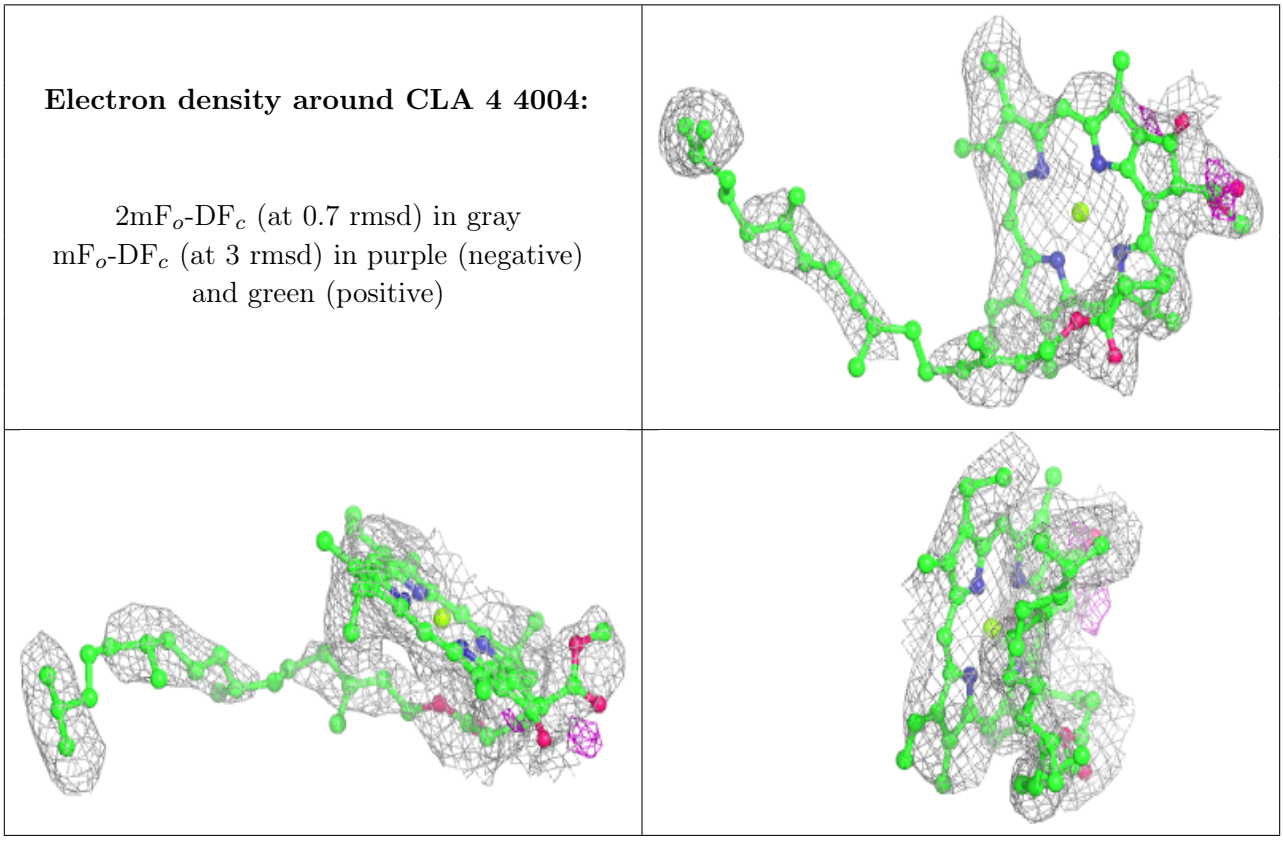
Electron density around BCR G 2011:

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



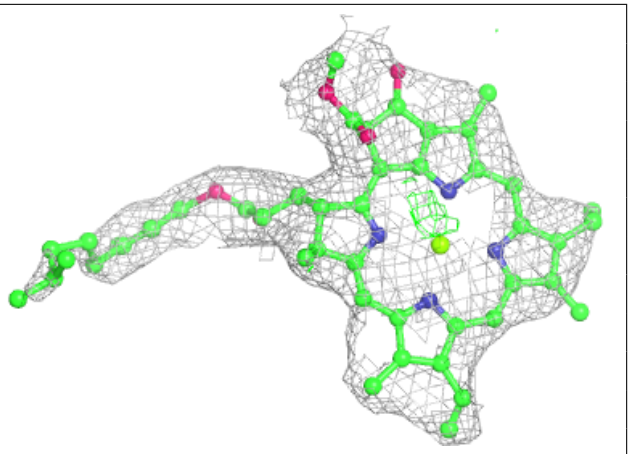
Electron density around CLA 4 4004:

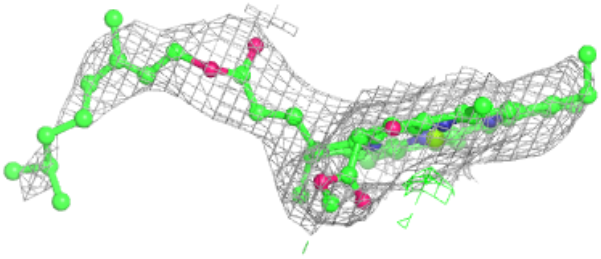
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

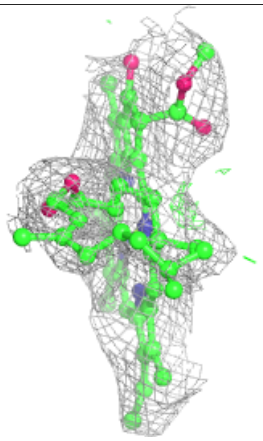


Electron density around CLA A 1124:

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

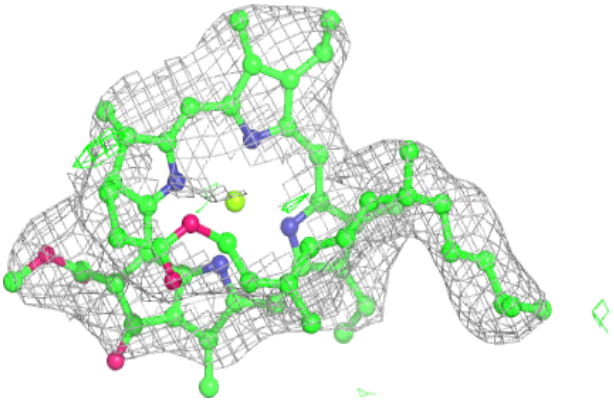


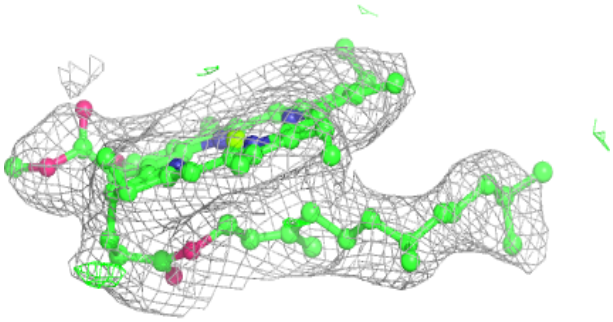


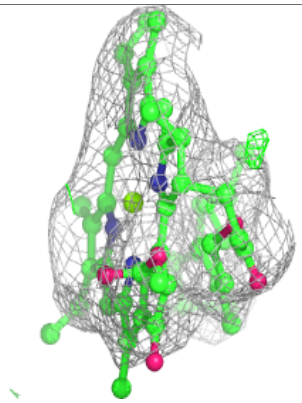


Electron density around CLA B 1213:

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

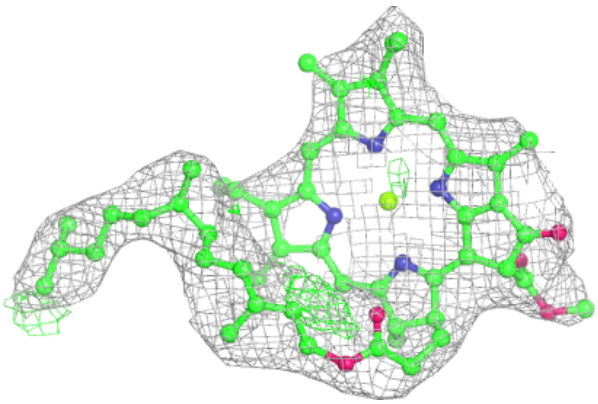


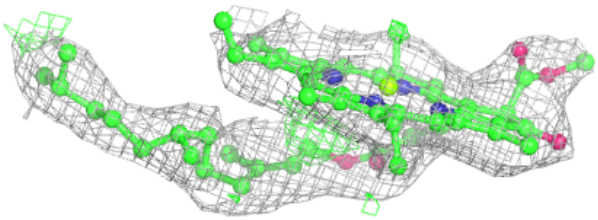


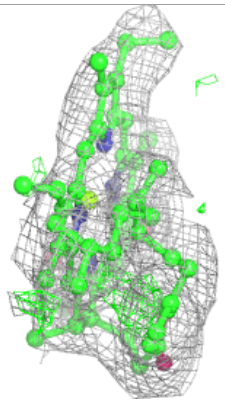


Electron density around CLA B 1215:

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

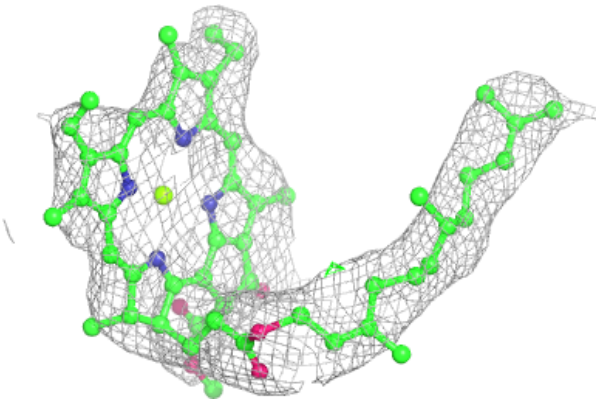


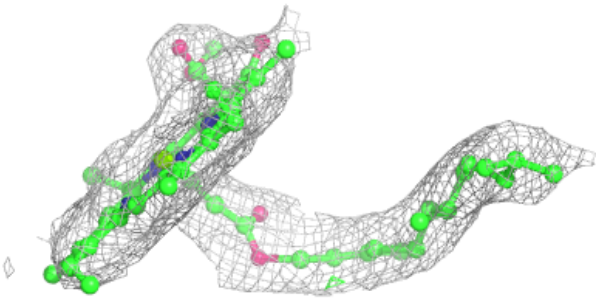


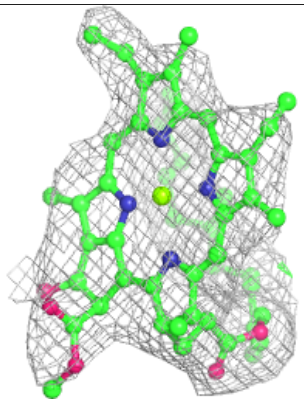


Electron density around CLA B 1219:

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

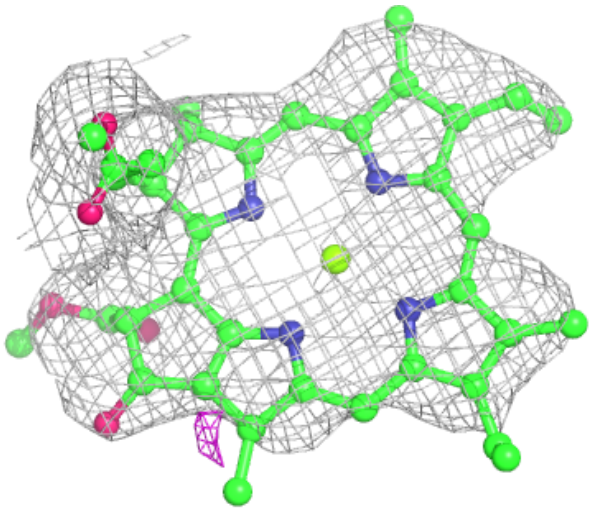


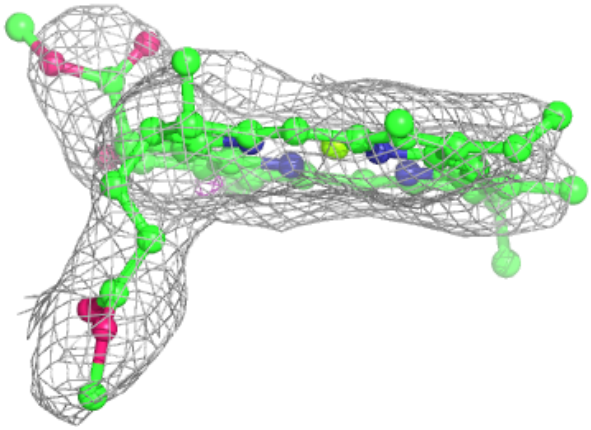


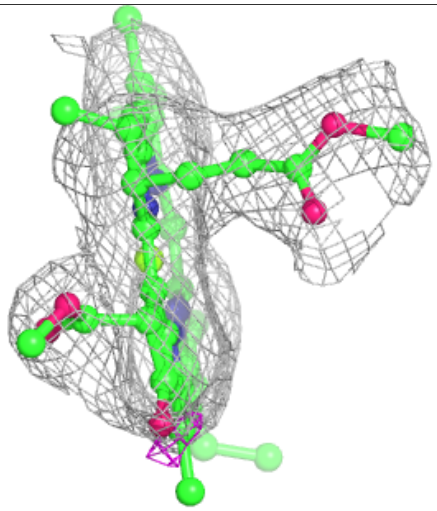


Electron density around CLA B 1231:

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

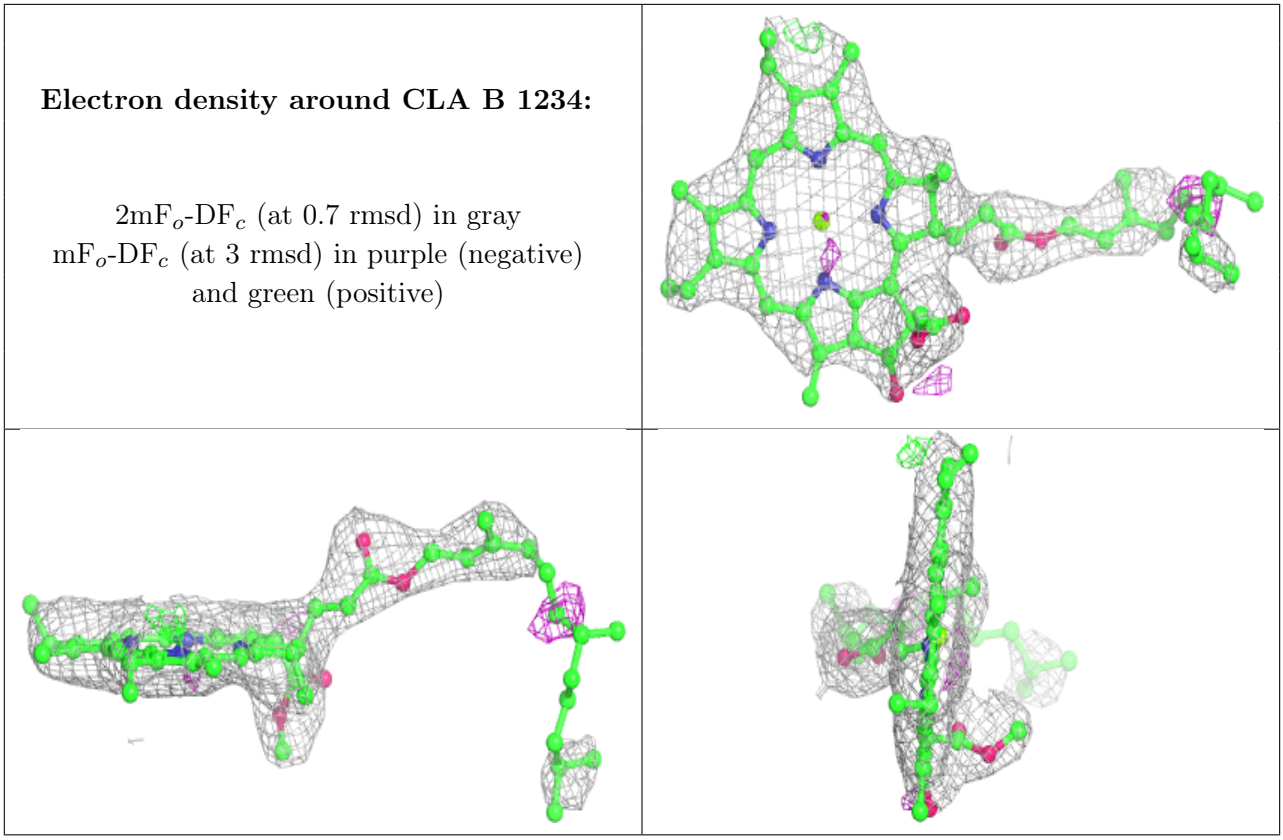






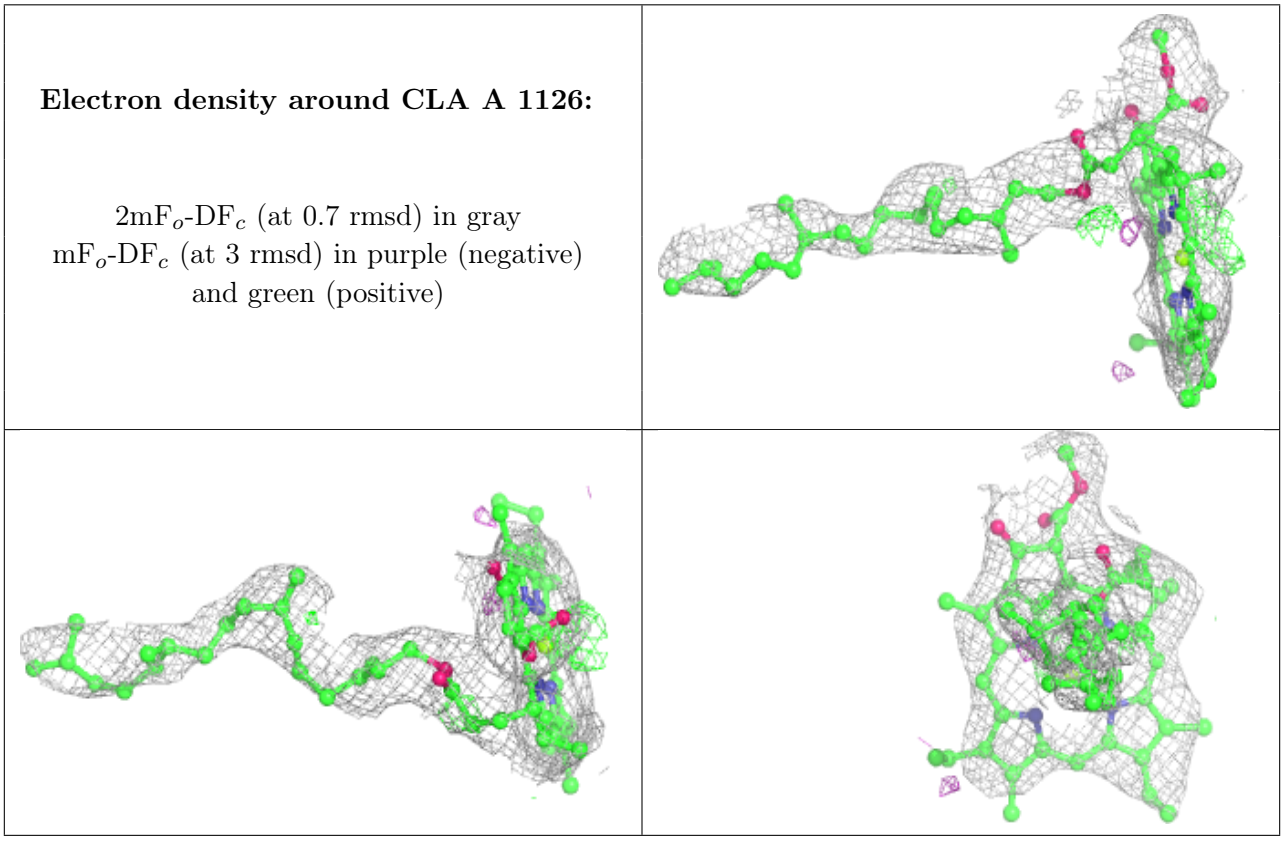
Electron density around CLA B 1234:

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



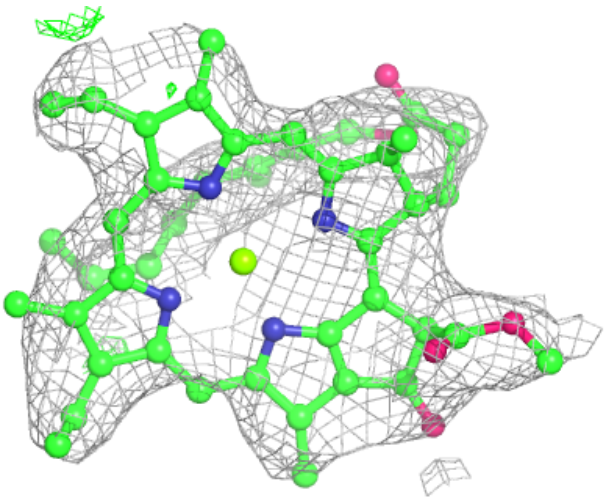
Electron density around CLA A 1126:

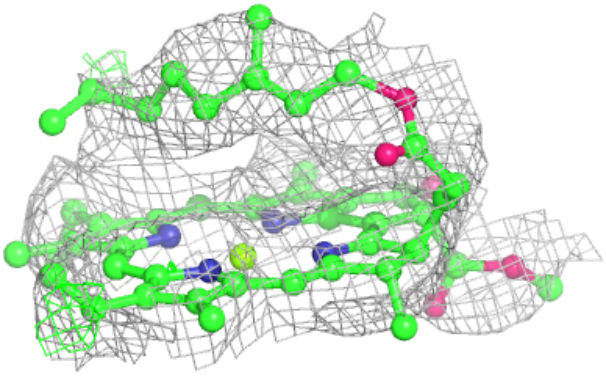
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

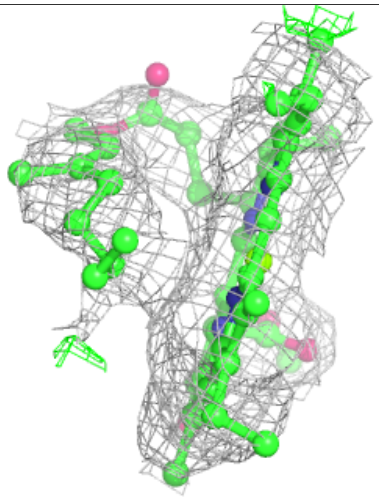


Electron density around CLA A 1116:

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

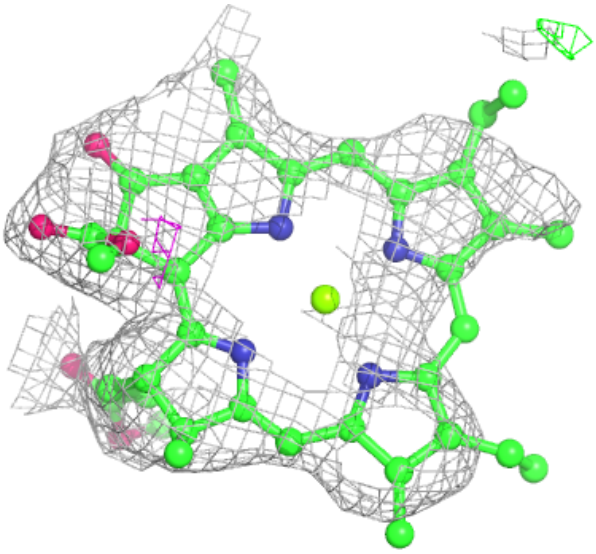


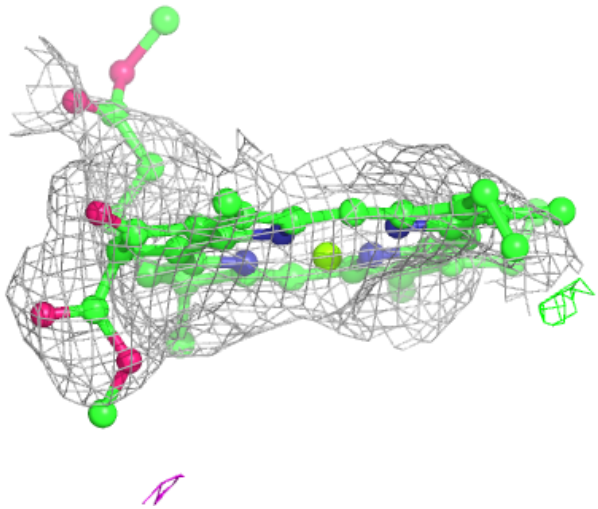


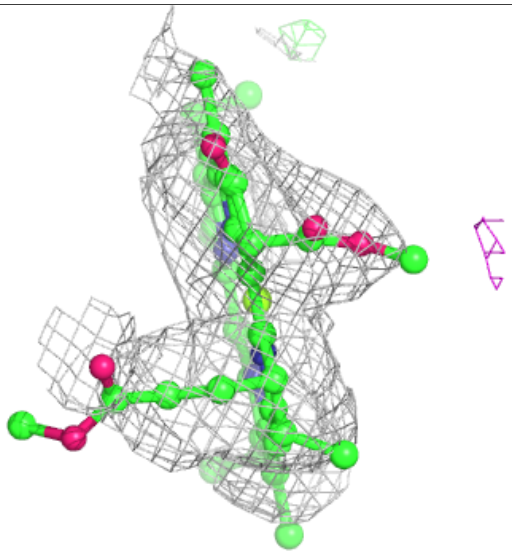


Electron density around CLA A 1118:

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

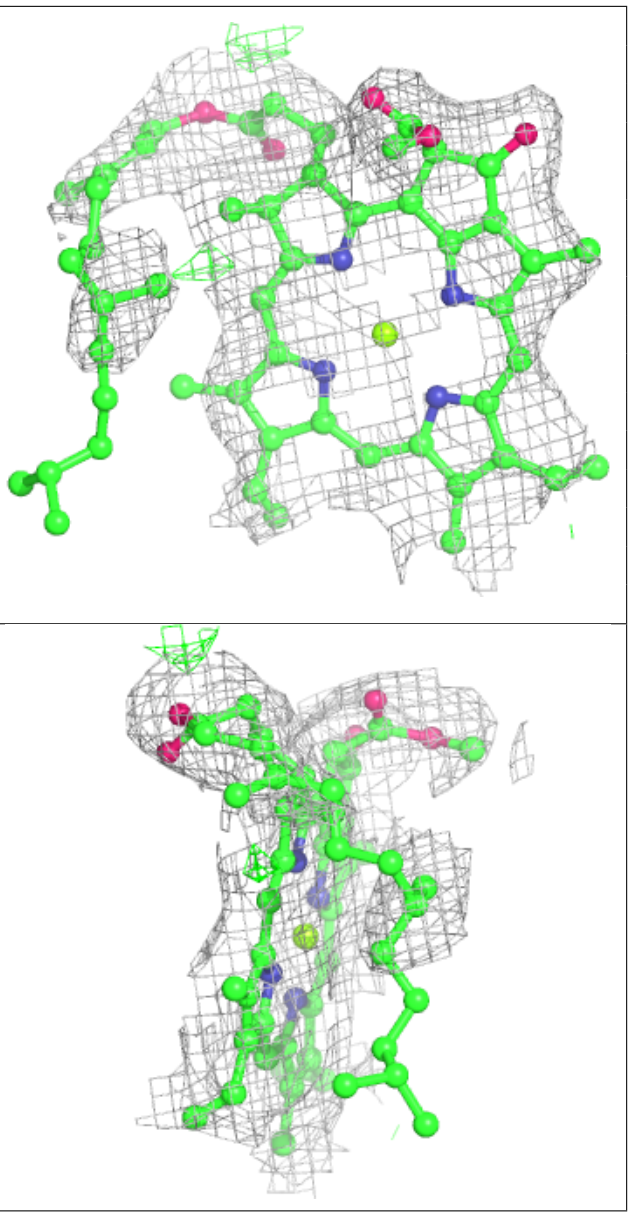






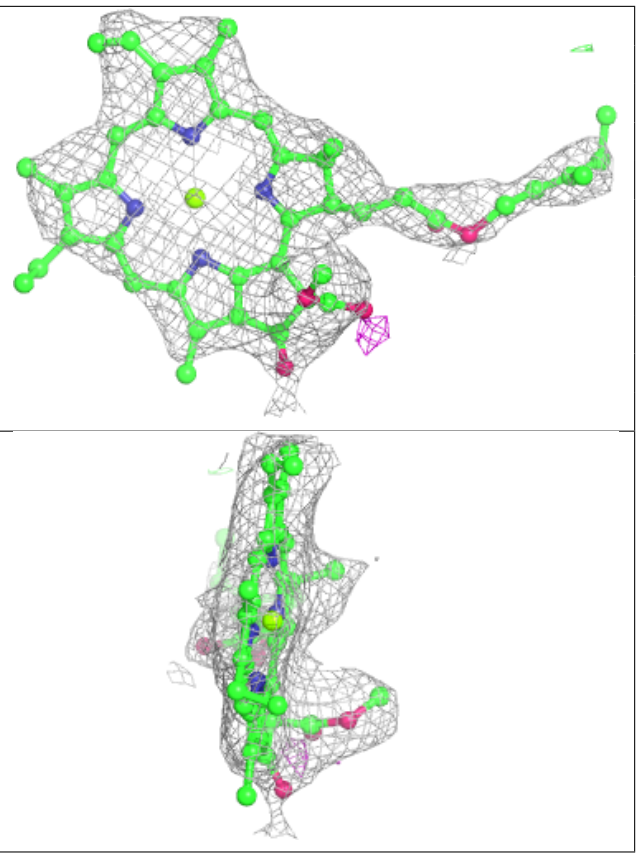
Electron density around CLA A 1111:

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



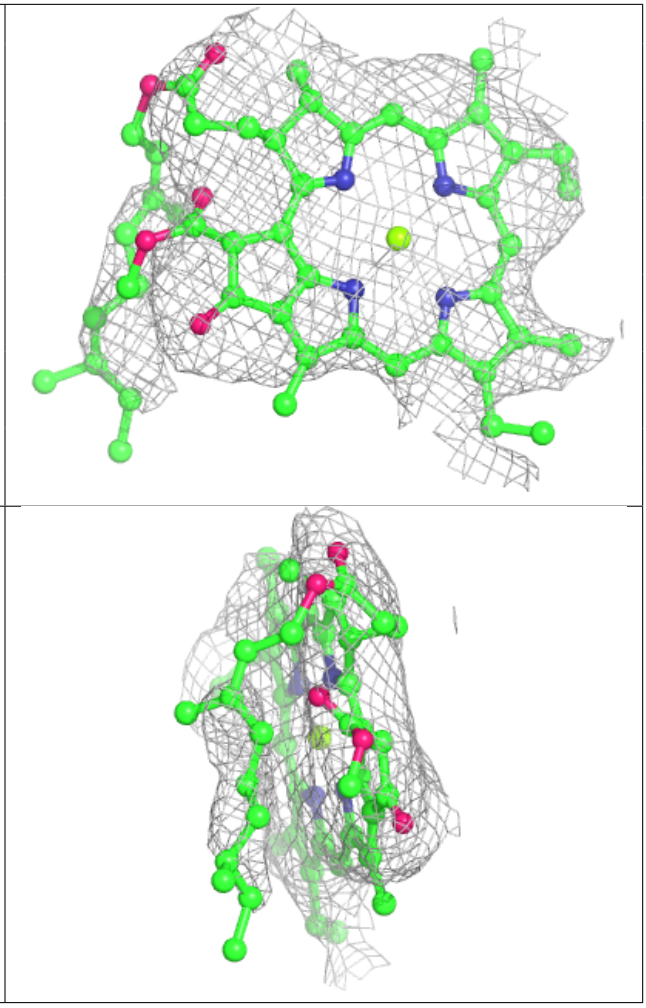
Electron density around CLA A 1135:

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



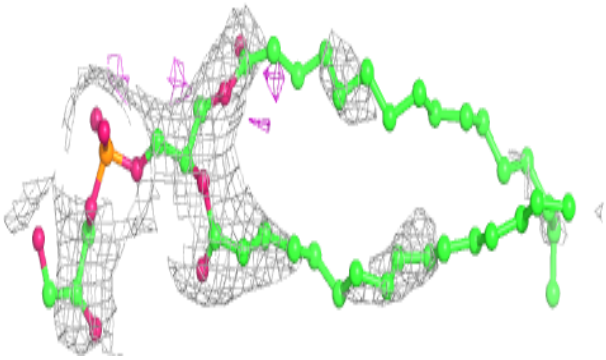
Electron density around CLA 1 1002:

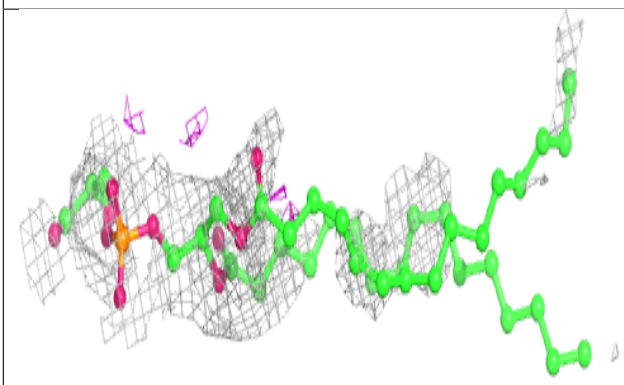
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

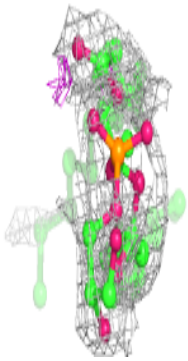


Electron density around LHG B 7004:

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

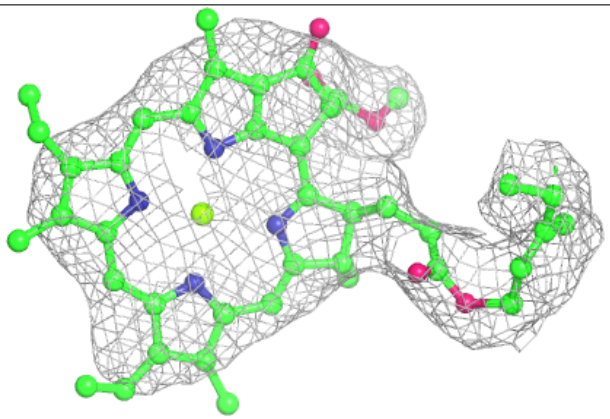


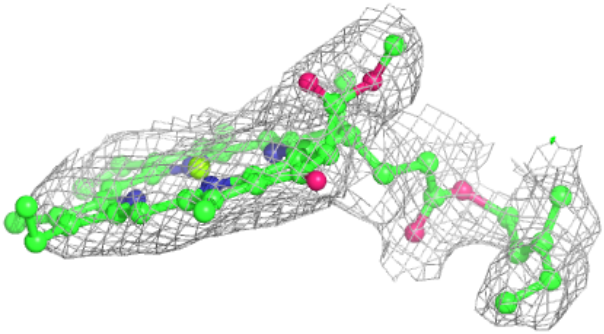


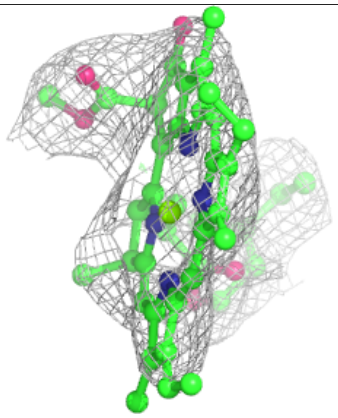


Electron density around CLA A 1141:

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

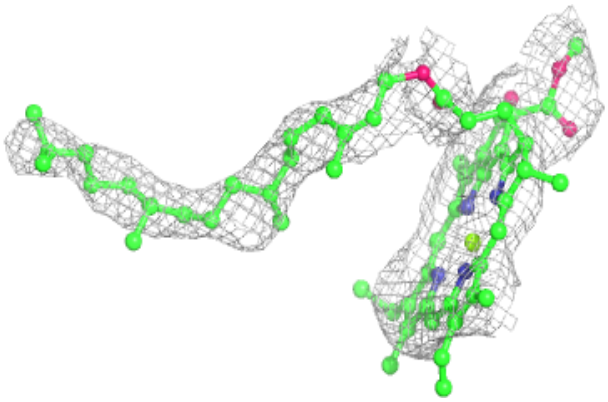


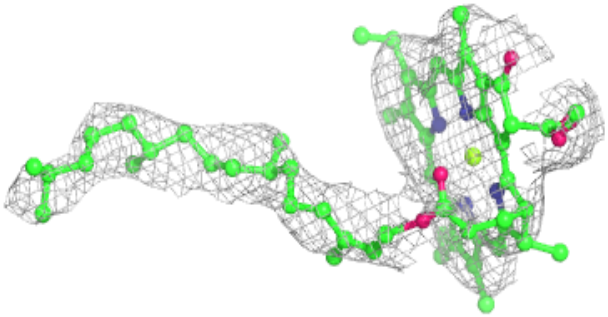


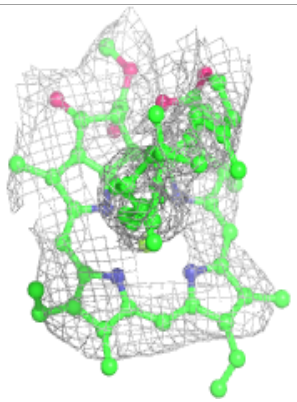


Electron density around CLA A 1109:

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

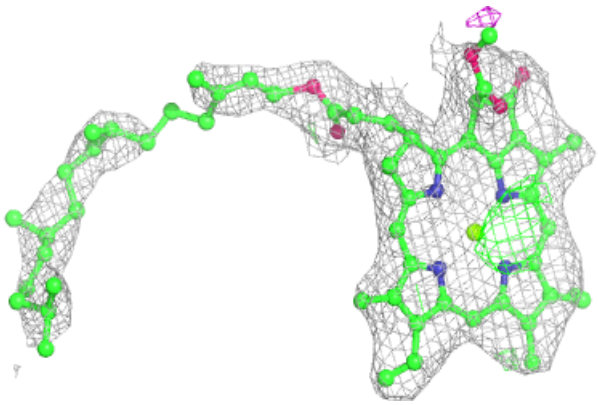


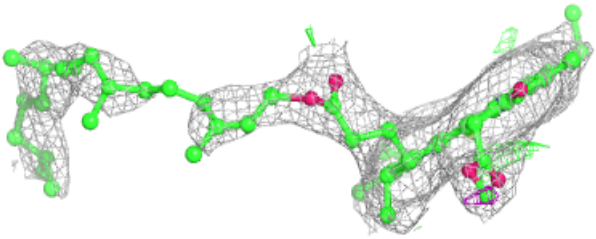


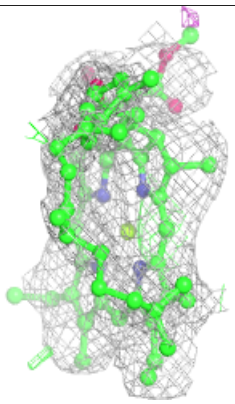


Electron density around CLA B 1222:

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

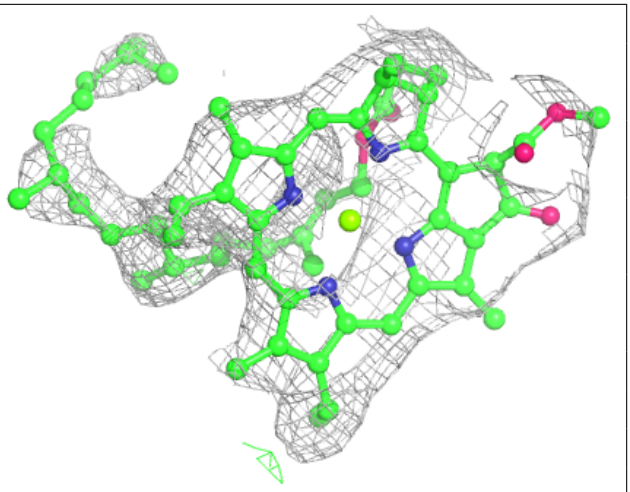


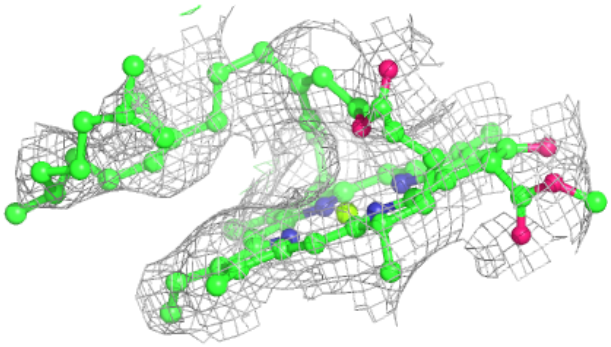


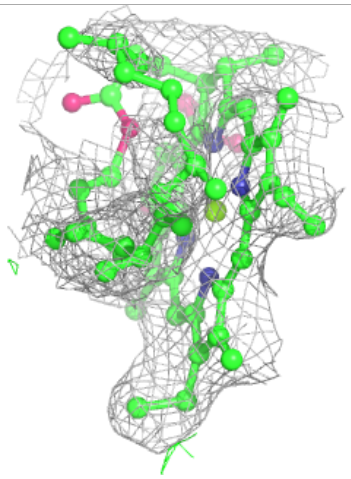


Electron density around CLA 4 4003:

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

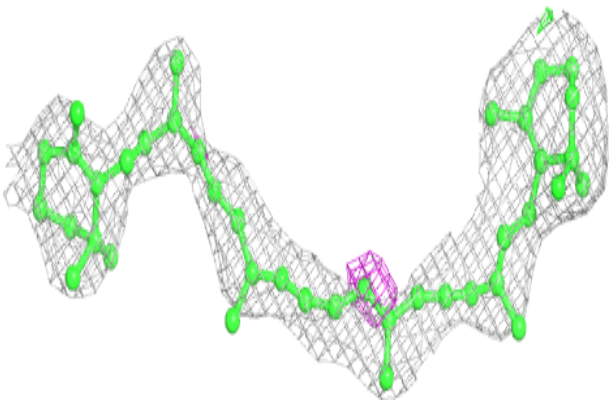


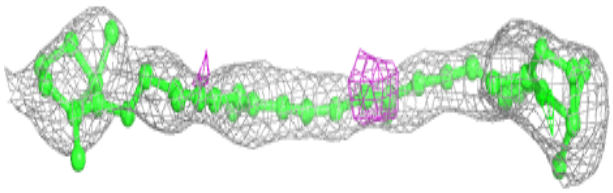


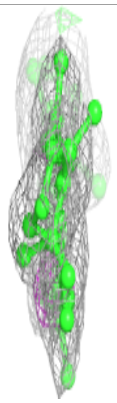


Electron density around BCR A 6011:

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

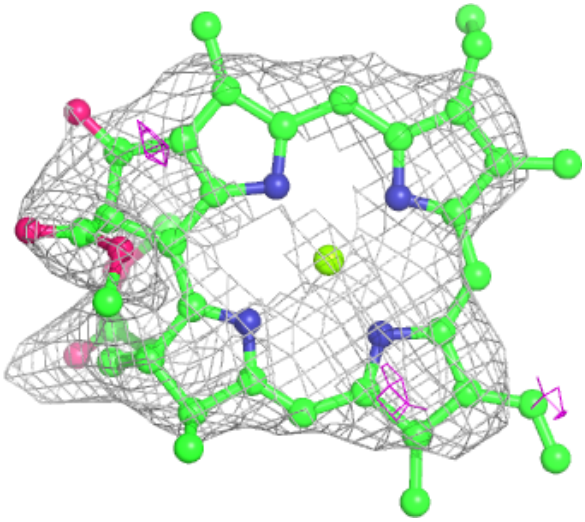


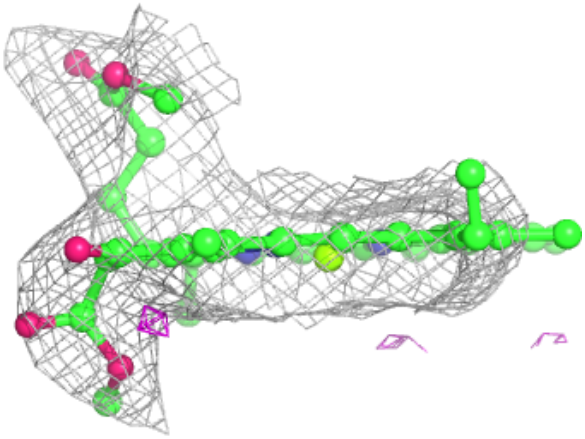


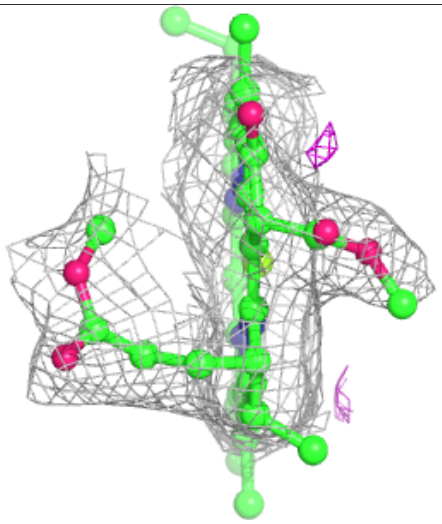


Electron density around CLA A 1114:

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

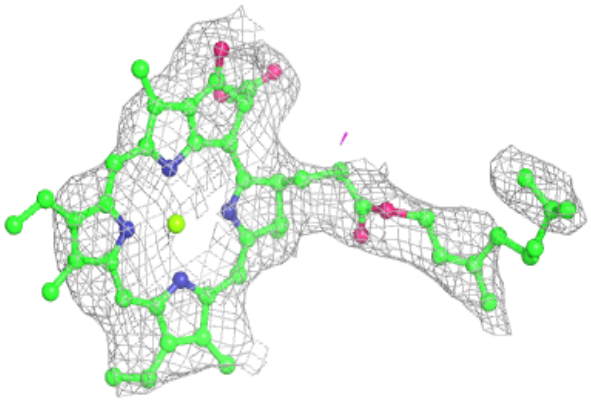


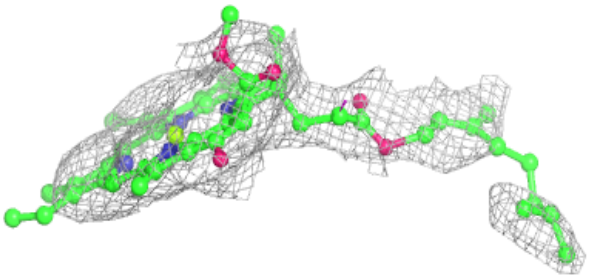


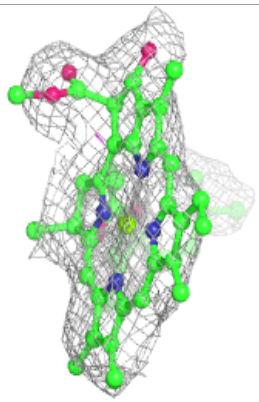


Electron density around CLA G 1001:

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

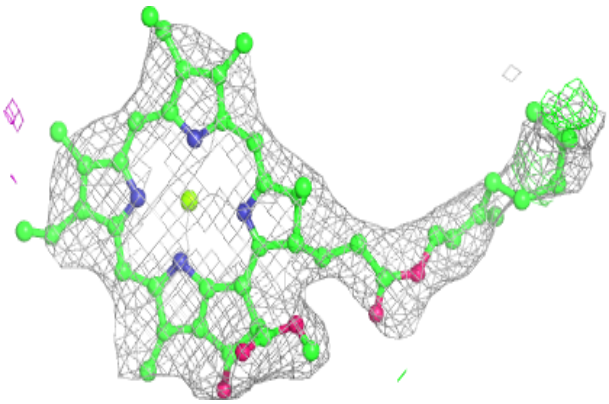


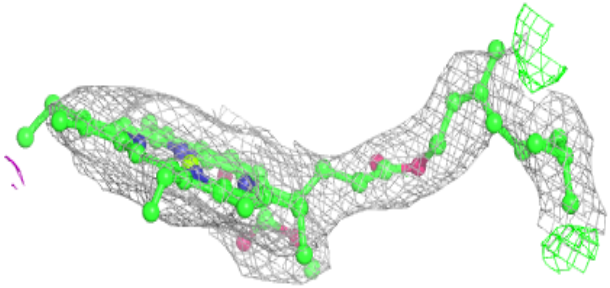


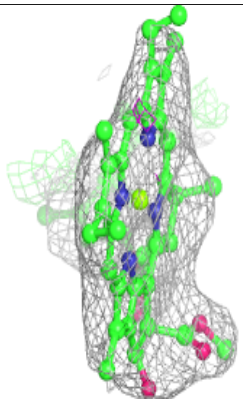


Electron density around CLA A 1125:

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

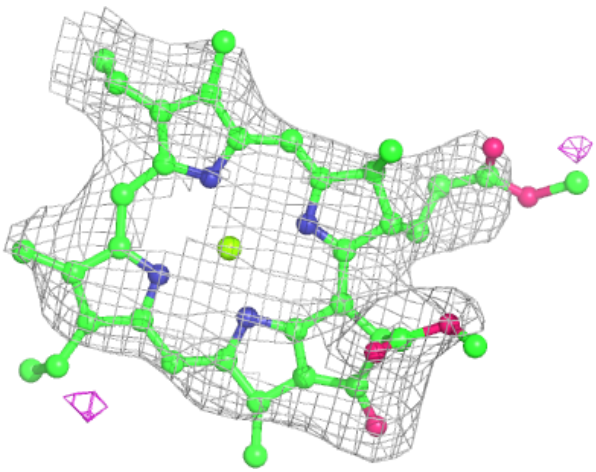


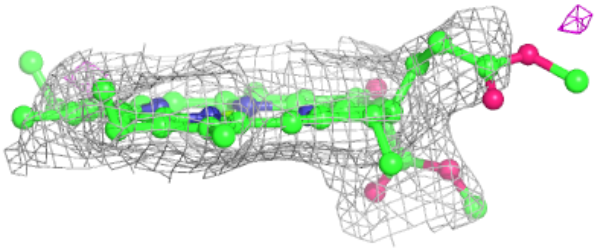


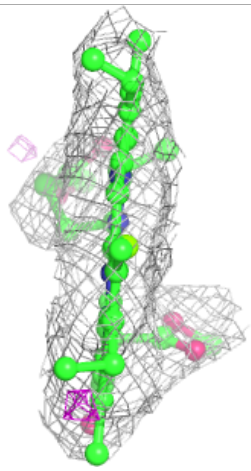


Electron density around CLA H 1000:

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

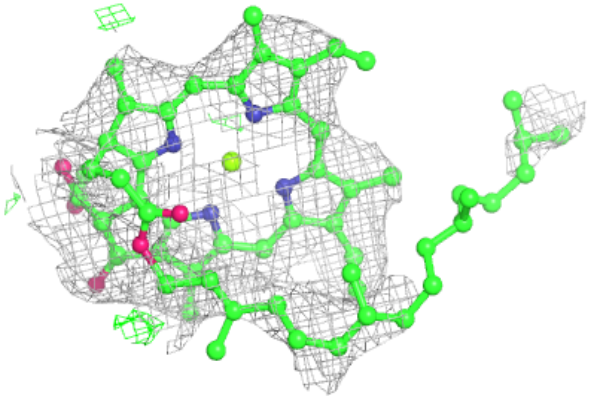


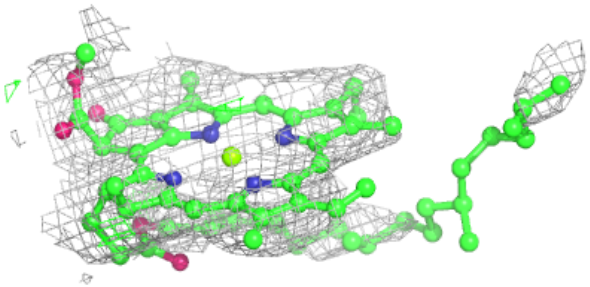


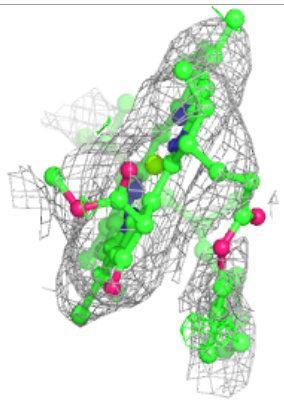


Electron density around CLA 1 1008:

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

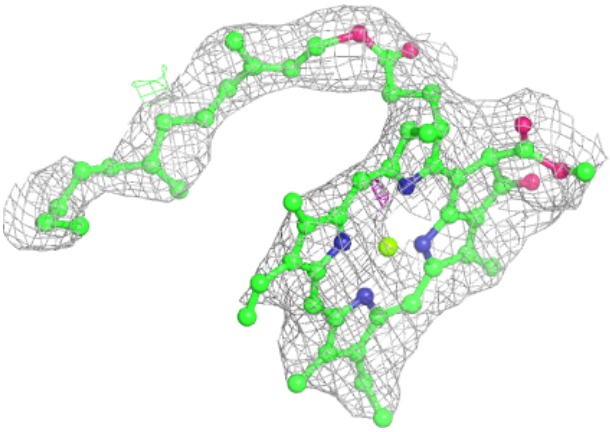


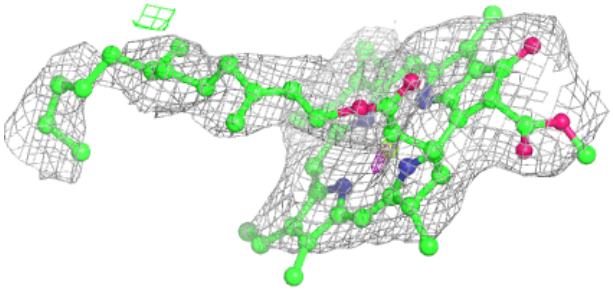


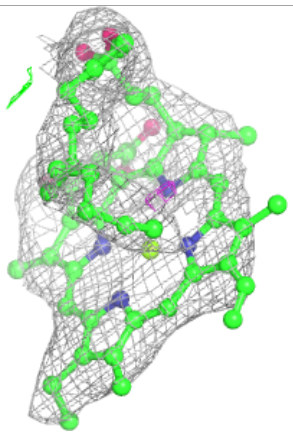


Electron density around CLA A 1122:

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

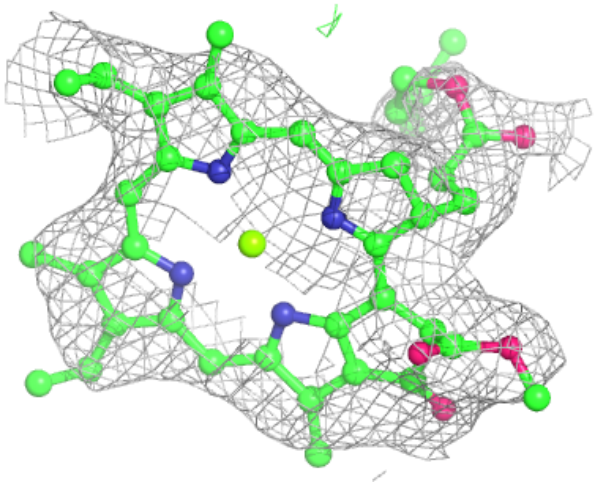


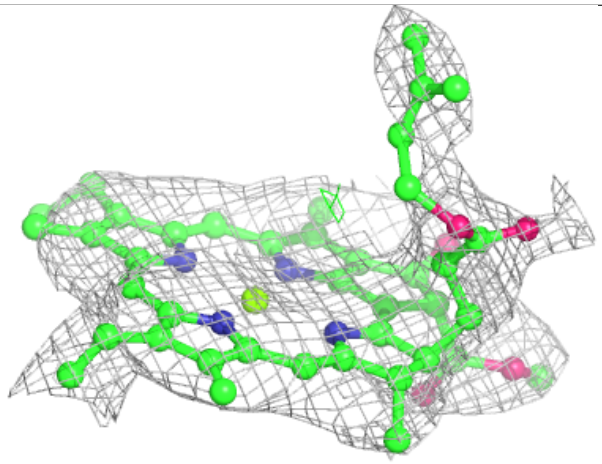


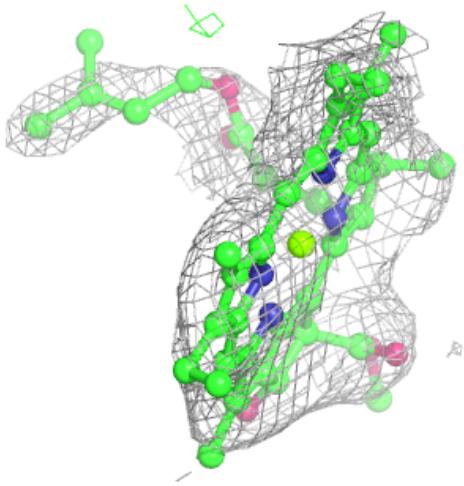


Electron density around CLA 1 1012:

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

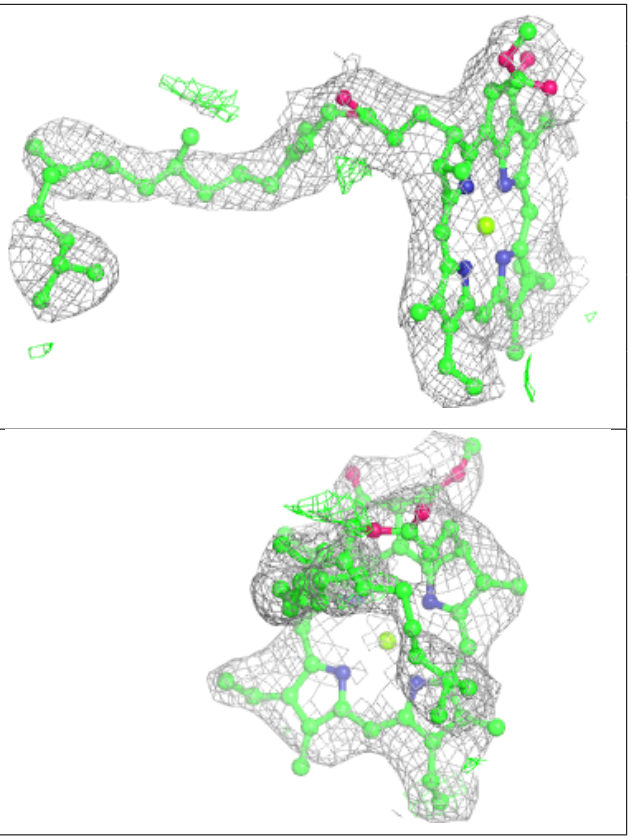






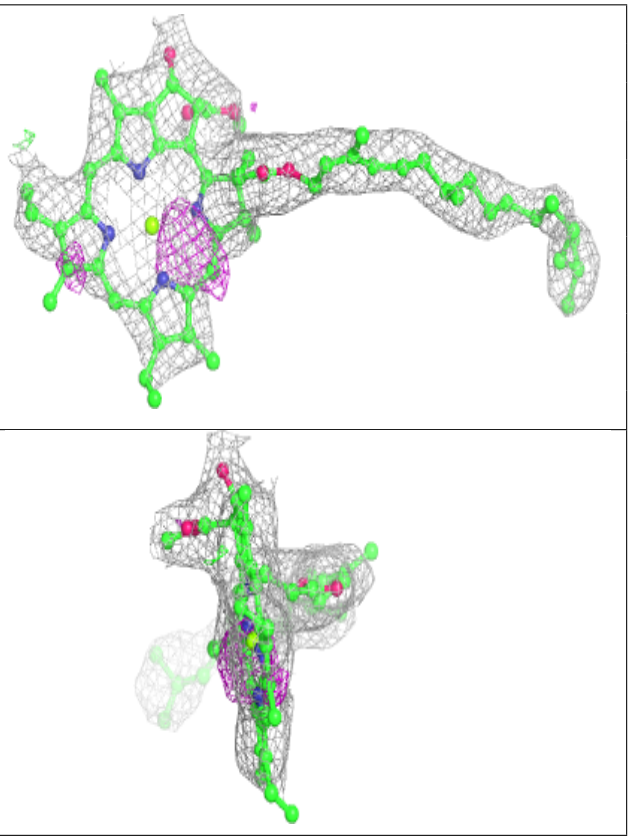
Electron density around CLA L 1502:

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



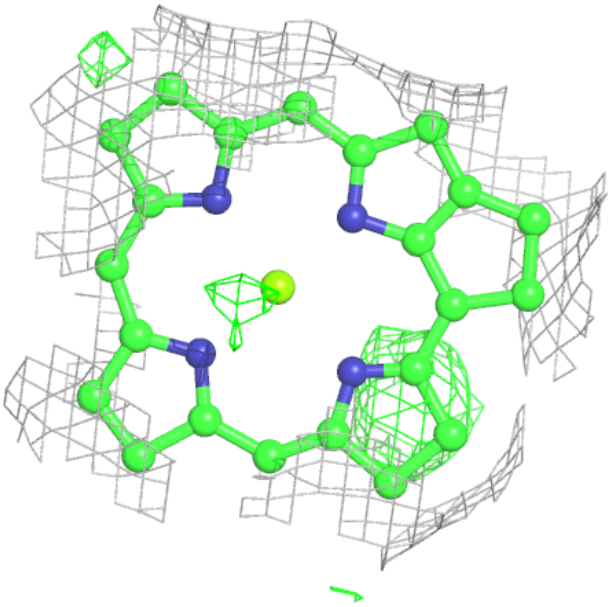
Electron density around CLA B 1240:

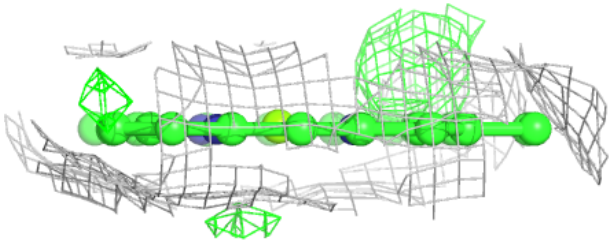
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

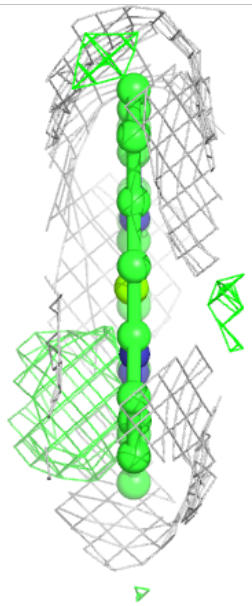


Electron density around CLA 2 2001:

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

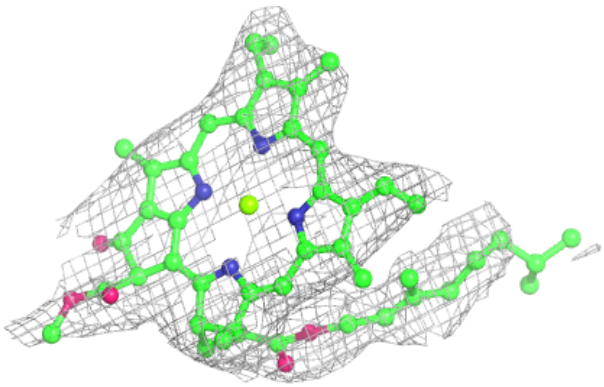


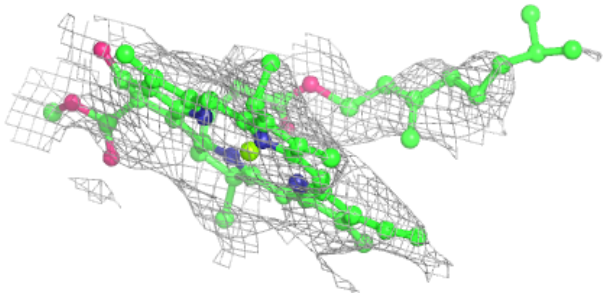


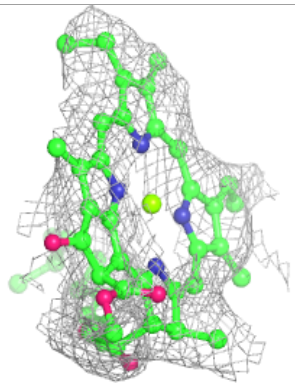


Electron density around CLA 1 1001:

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

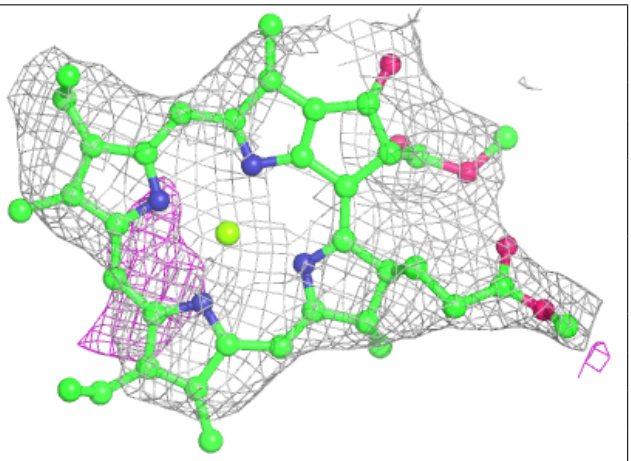


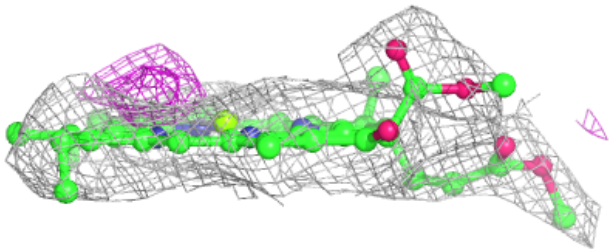


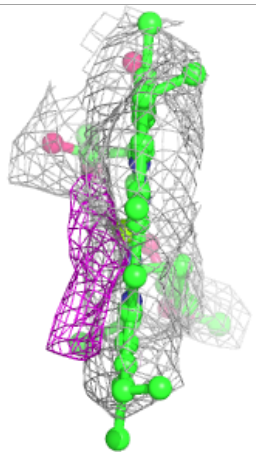


Electron density around CLA F 1302:

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

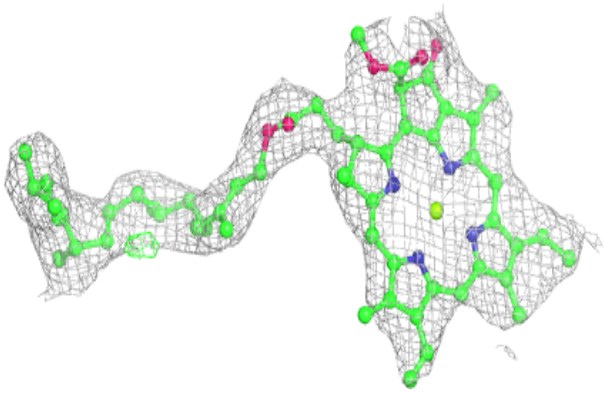


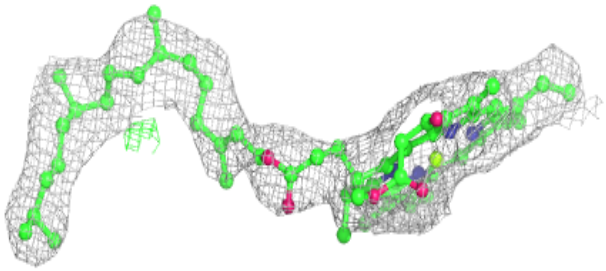


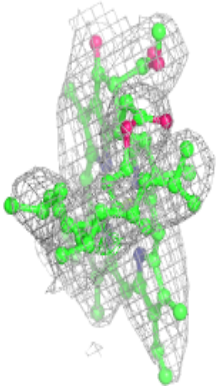


Electron density around CLA B 1210:

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

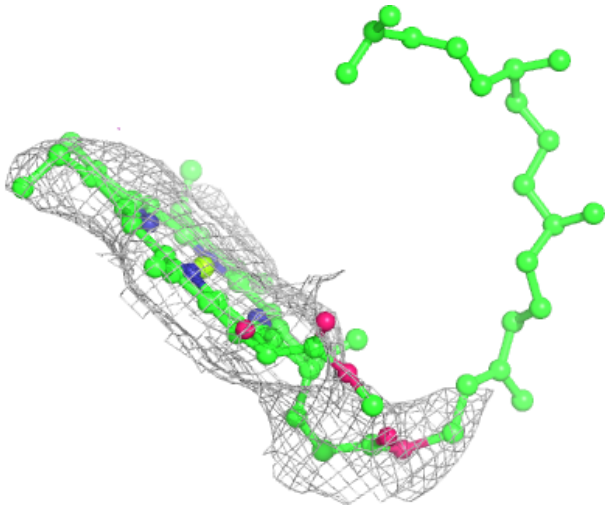


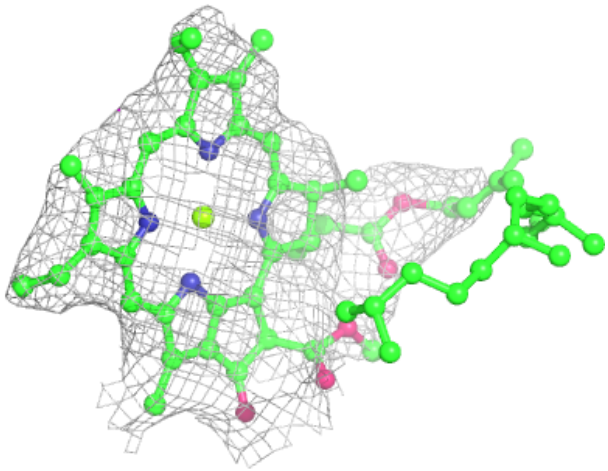


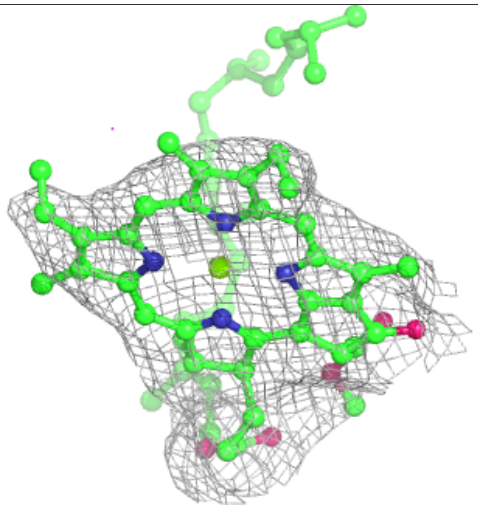


Electron density around CLA 2 2005:

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

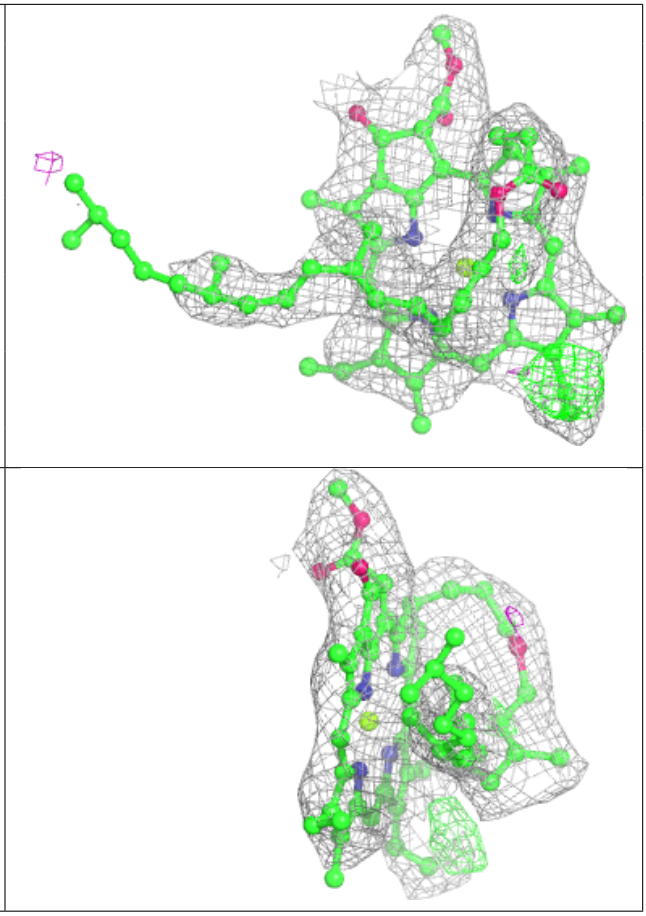






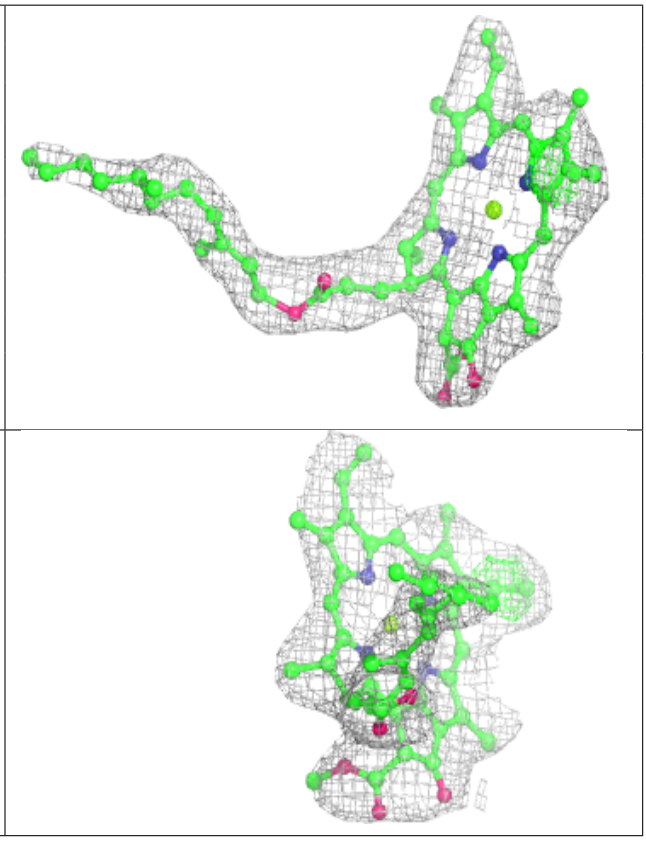
Electron density around CLA B 1224:

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



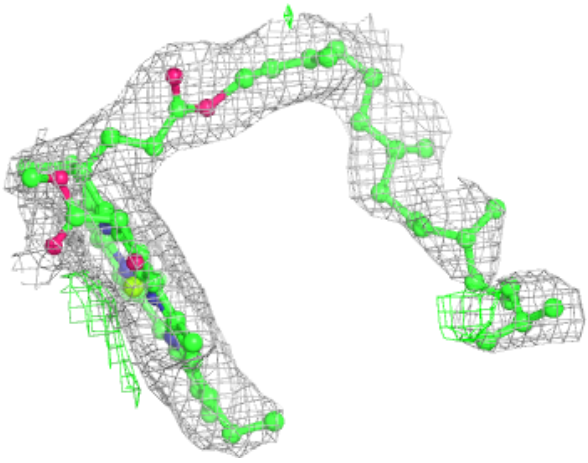
Electron density around CLA B 1230:

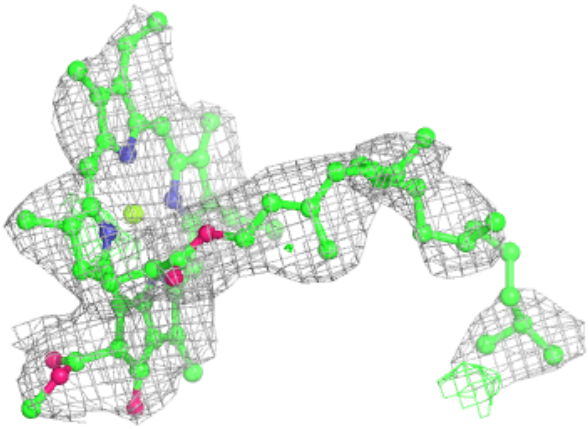
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

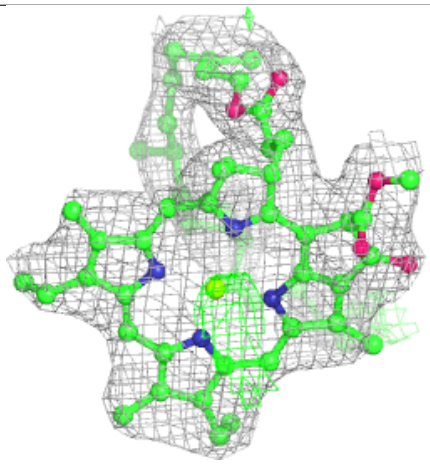


Electron density around CLA B 1216:

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

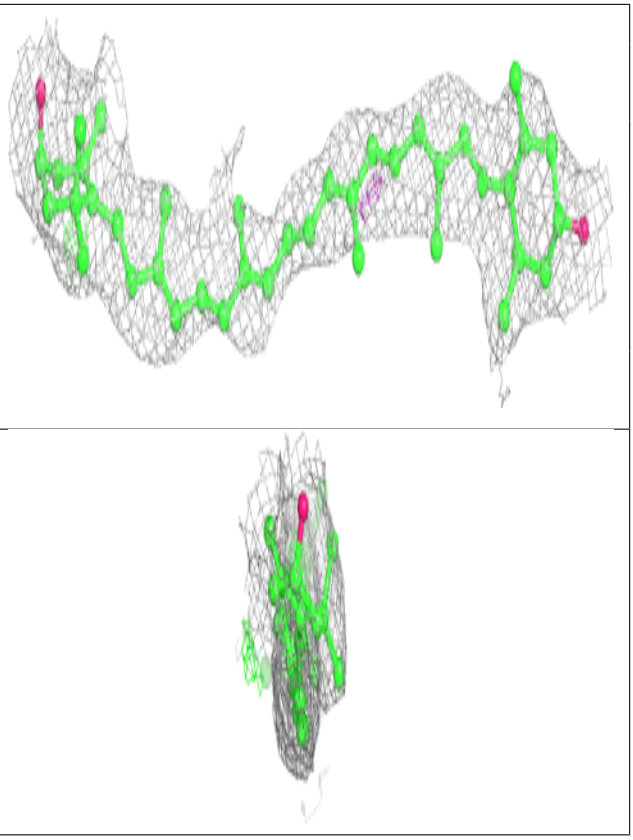






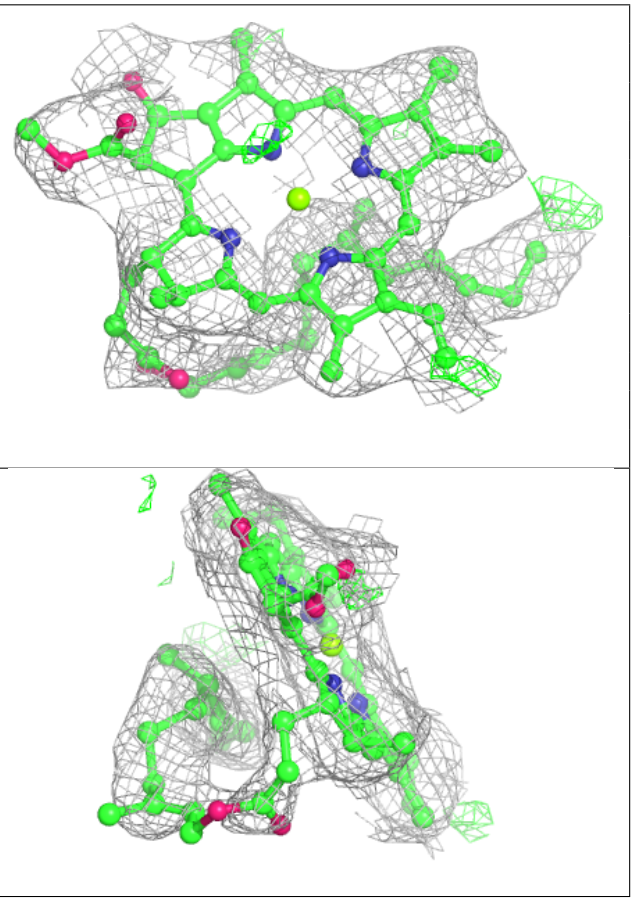
Electron density around LUT 4 4502:

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



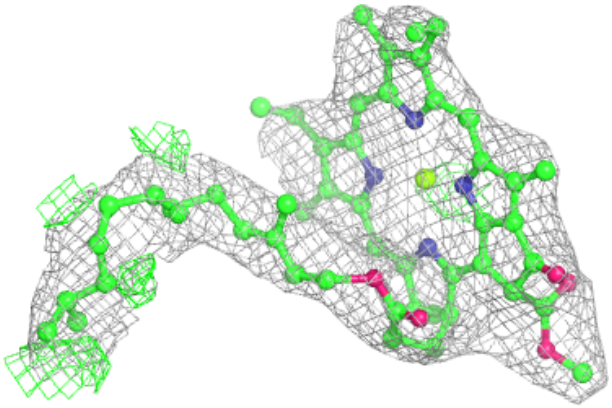
Electron density around CLA B 1214:

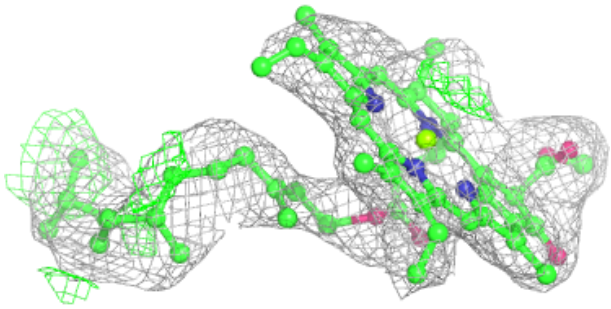
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

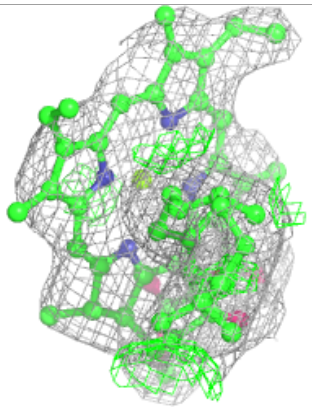


Electron density around CLA B 1237:

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

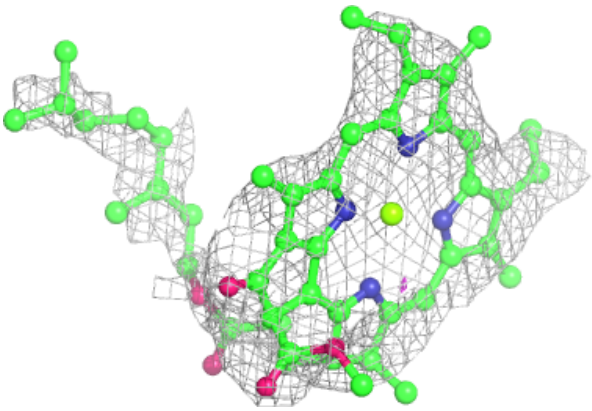


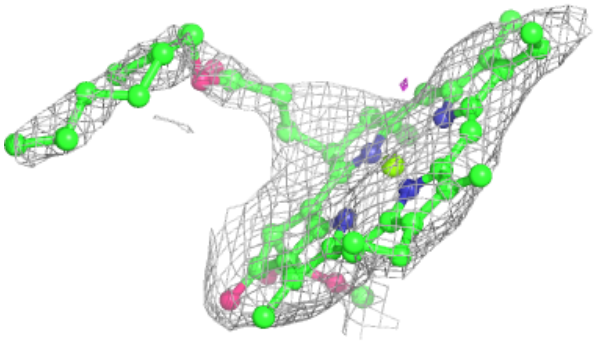


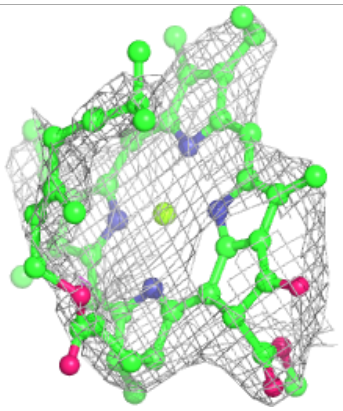


Electron density around CLA 1 1007:

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

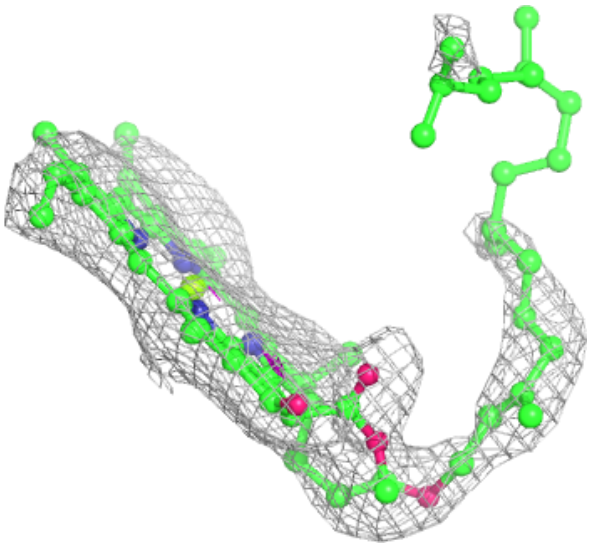


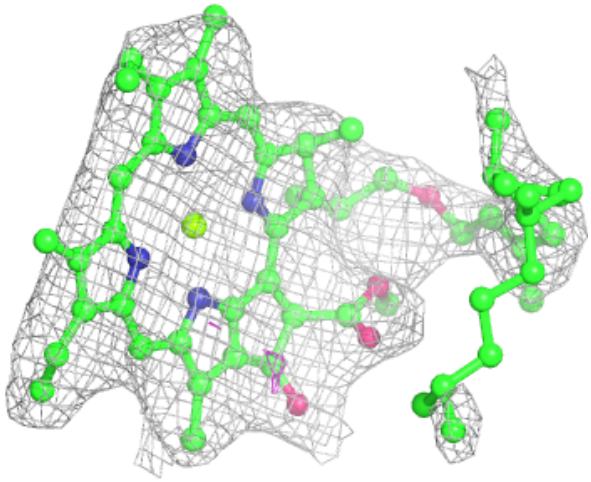


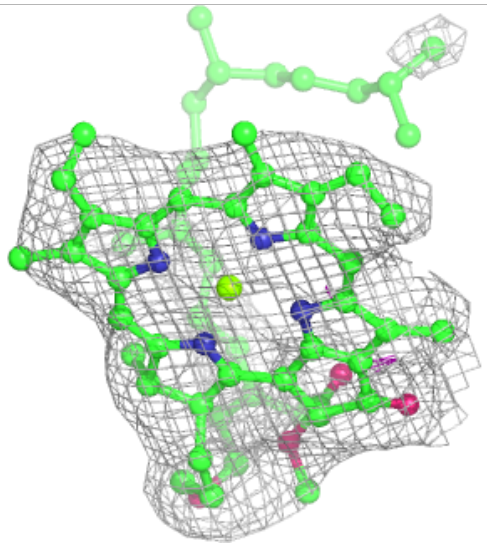


Electron density around CLA F 1303:

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

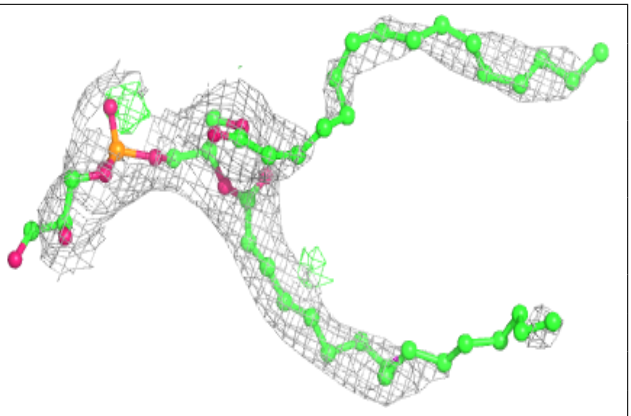


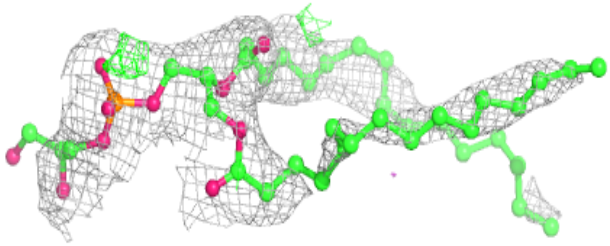




Electron density around LHG A 7001:

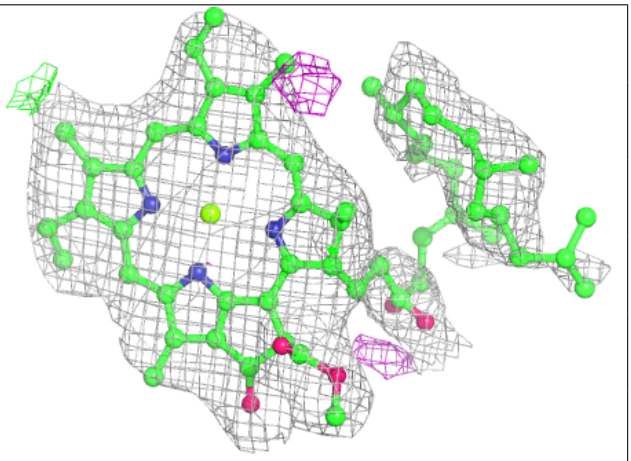
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

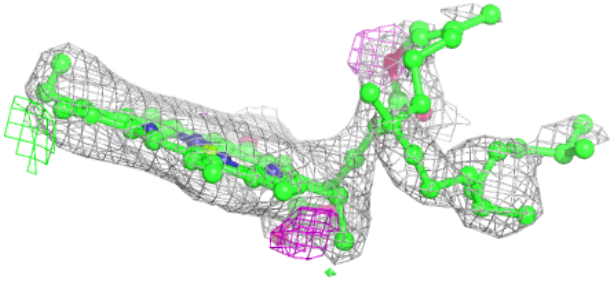


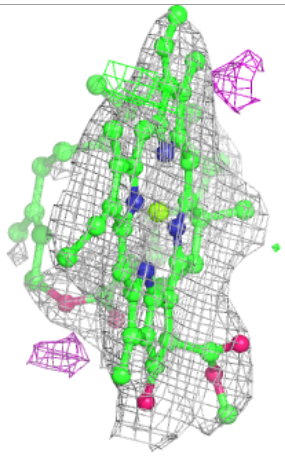


Electron density around CLA 4 4011:

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

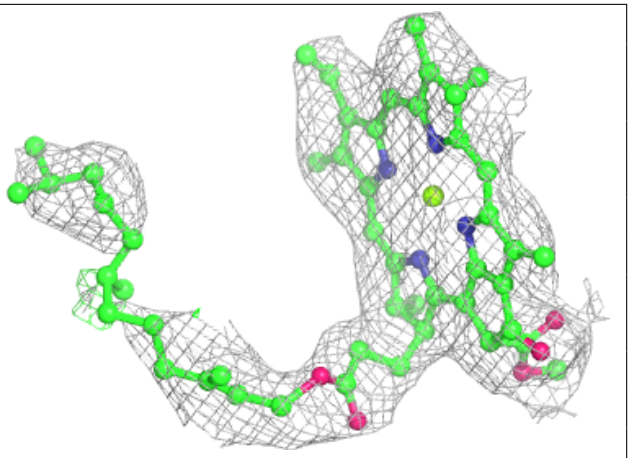


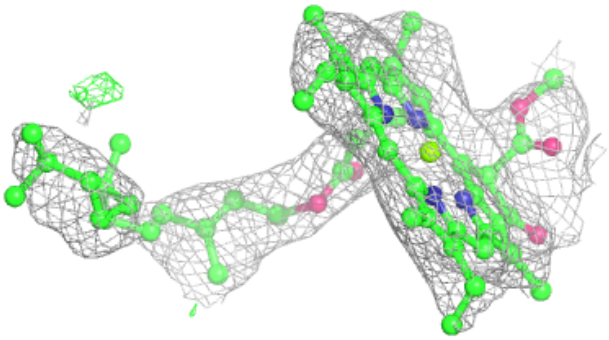


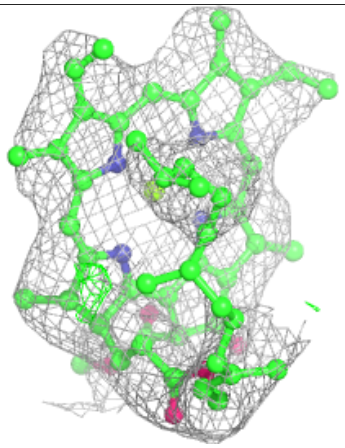


Electron density around CLA B 1218:

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

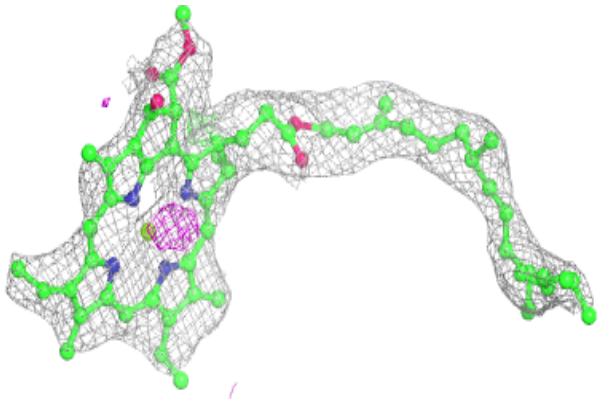


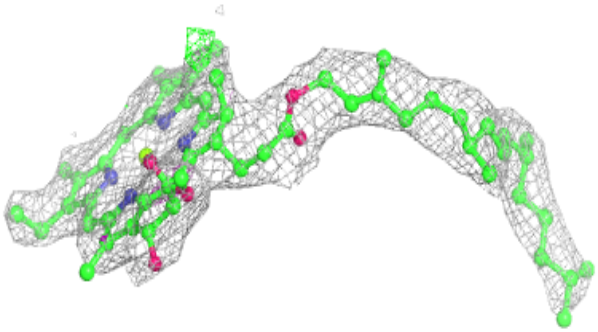


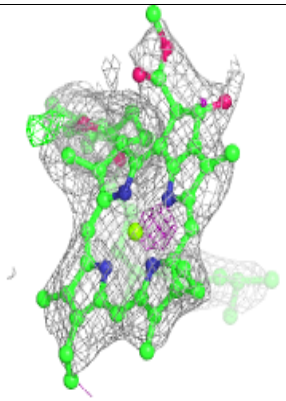


Electron density around CLA A 9012:

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

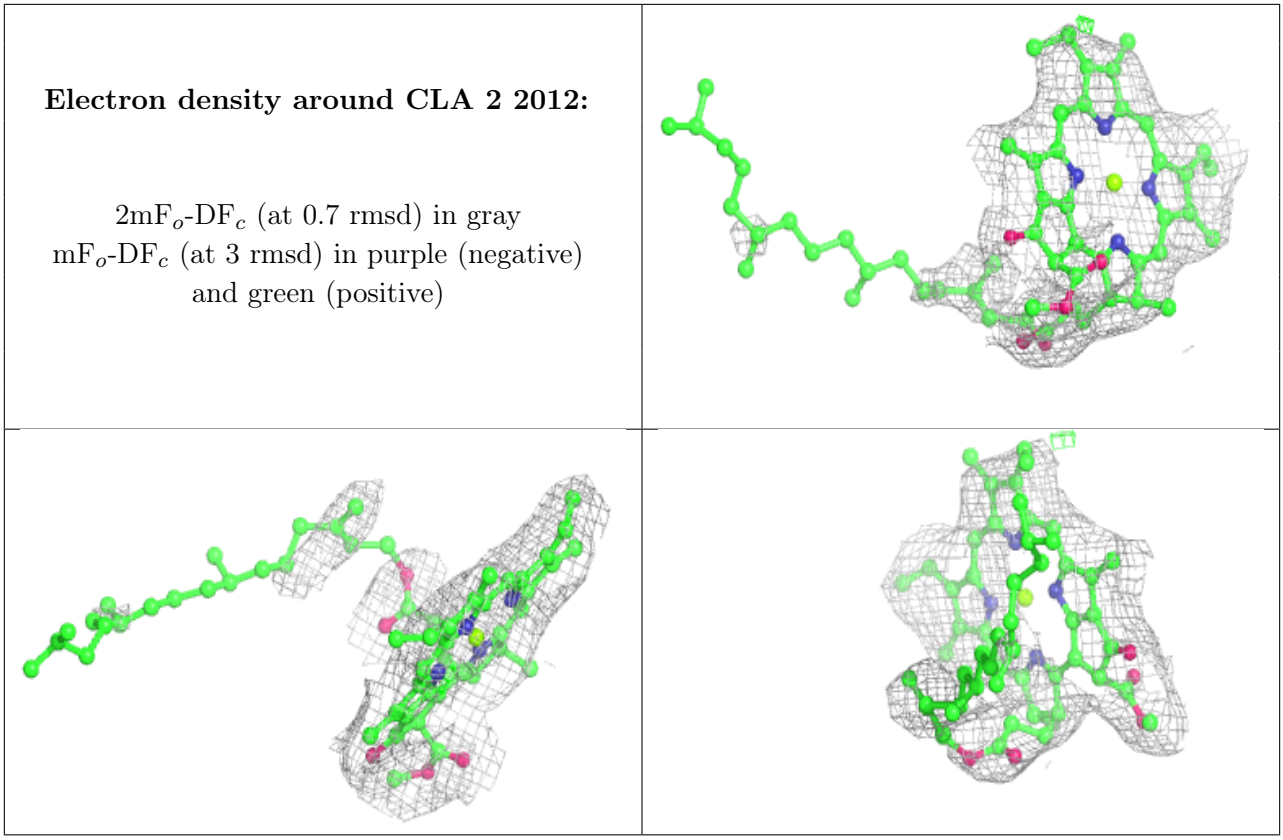






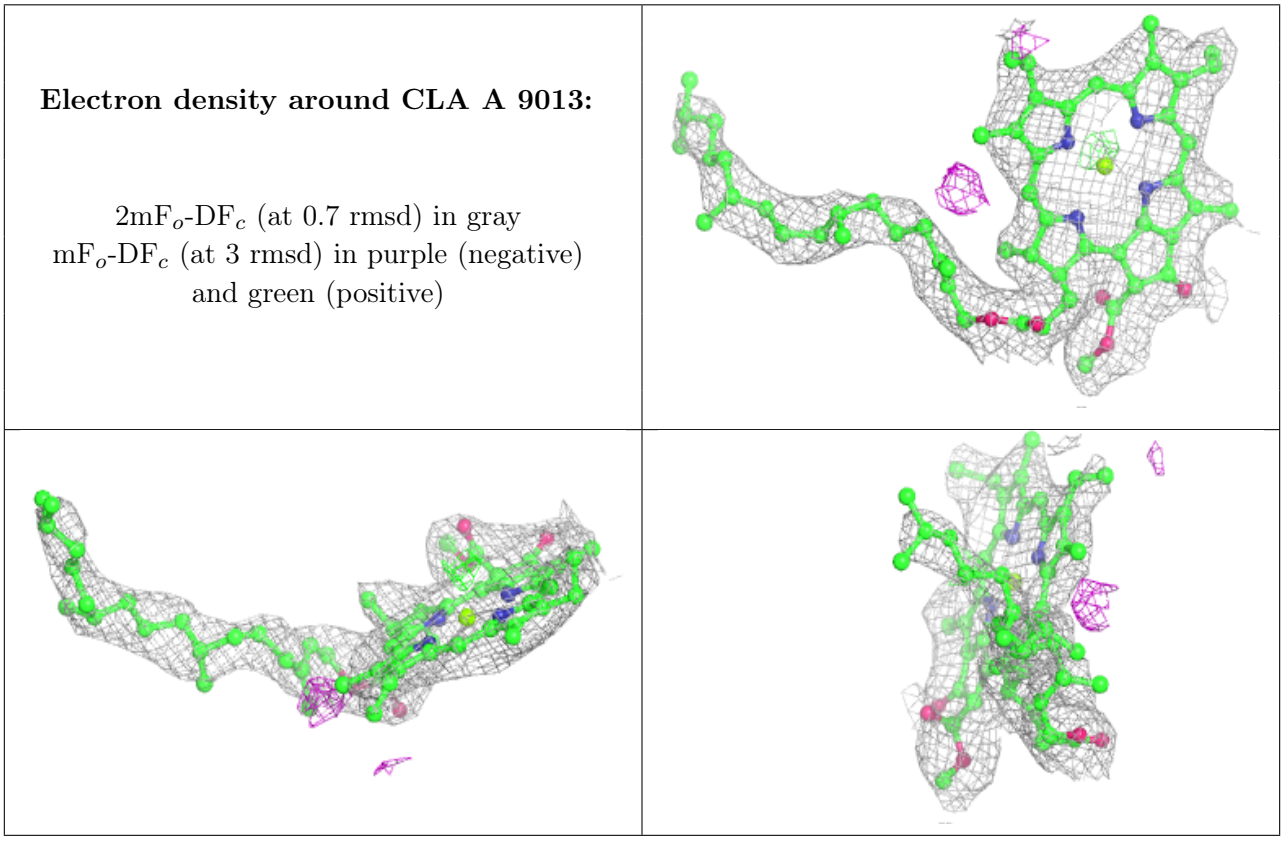
Electron density around CLA 2 2012:

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



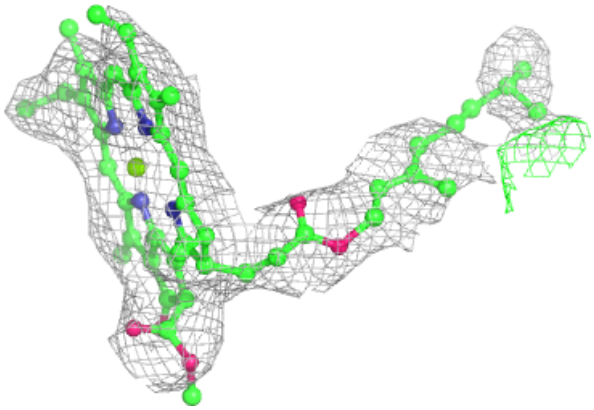
Electron density around CLA A 9013:

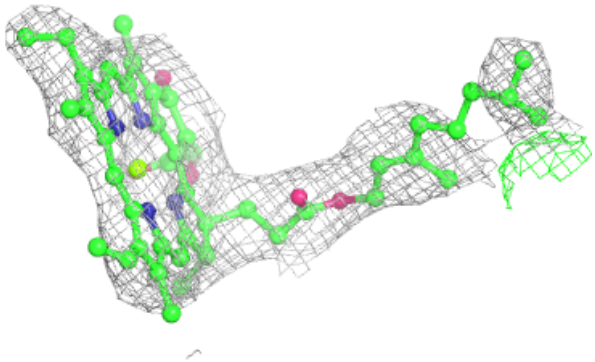
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

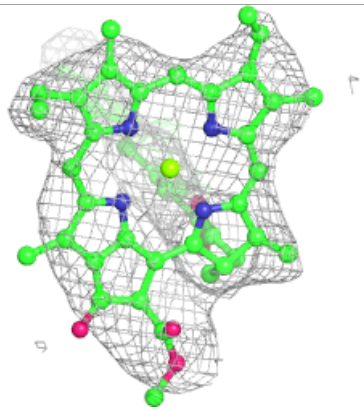


Electron density around CLA B 1208:

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

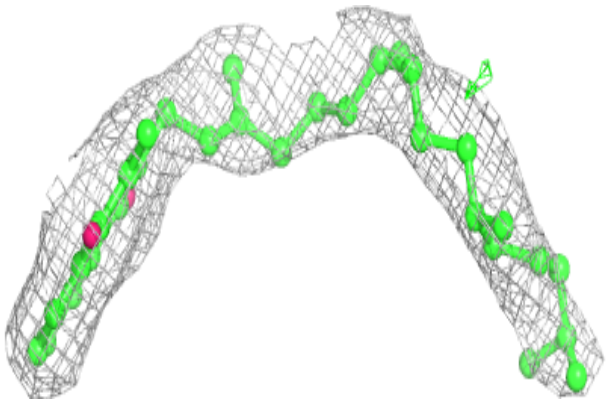


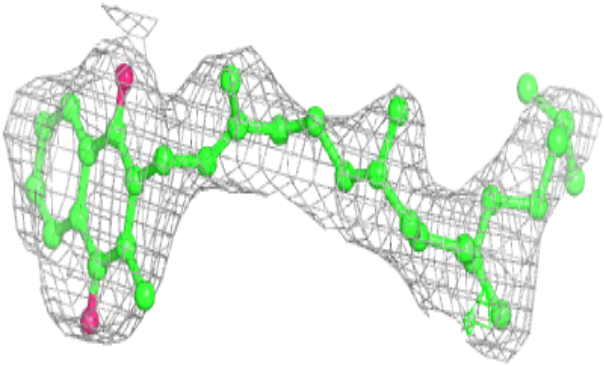


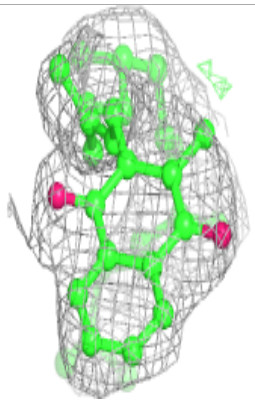


Electron density around PQN B 5002:

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

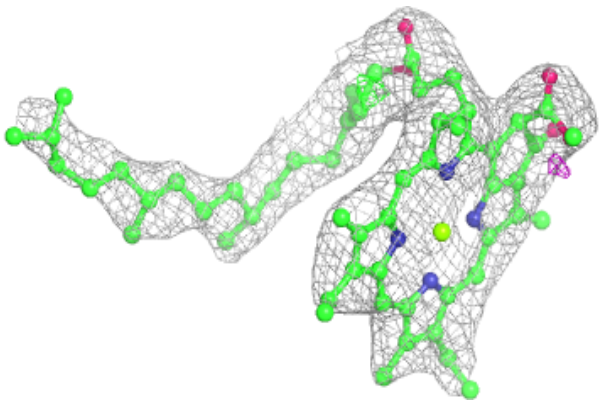


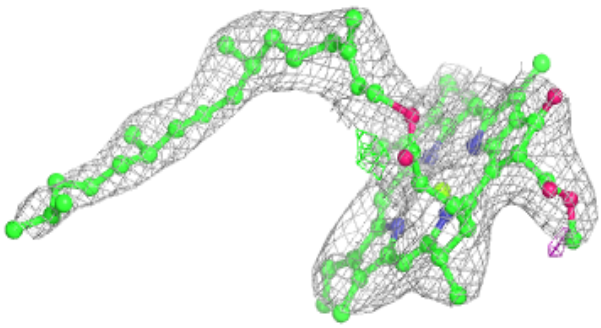


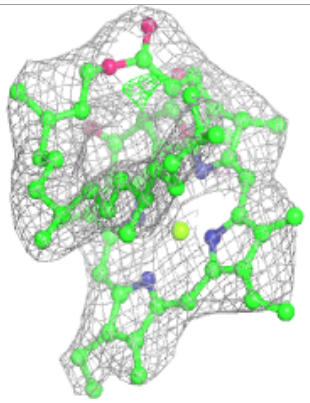


Electron density around CLA B 1211:

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

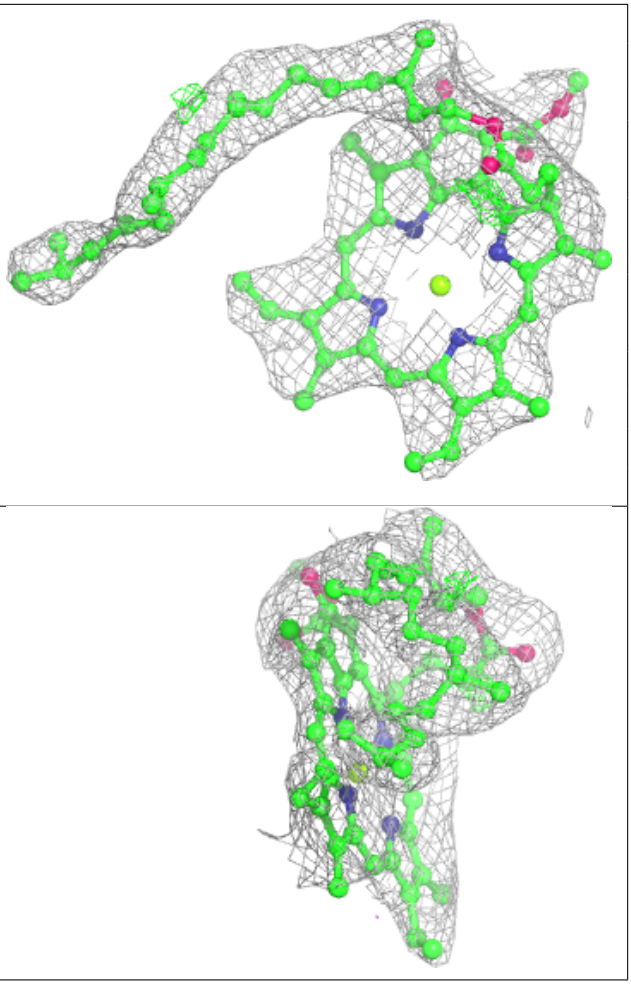






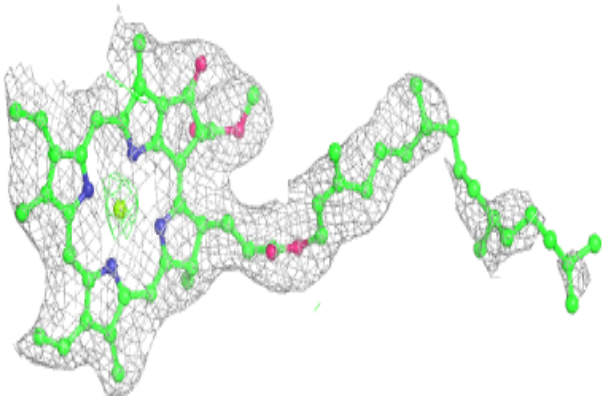
Electron density around CLA A 1127:

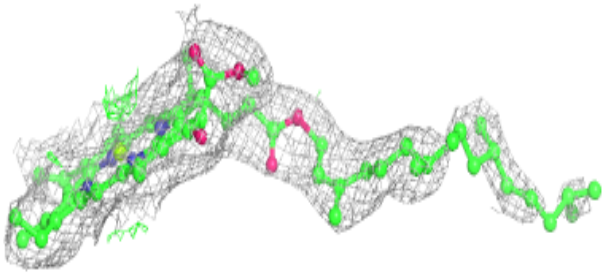
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

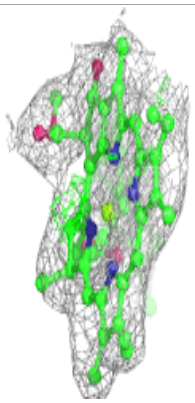


Electron density around CLA A 1139:

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

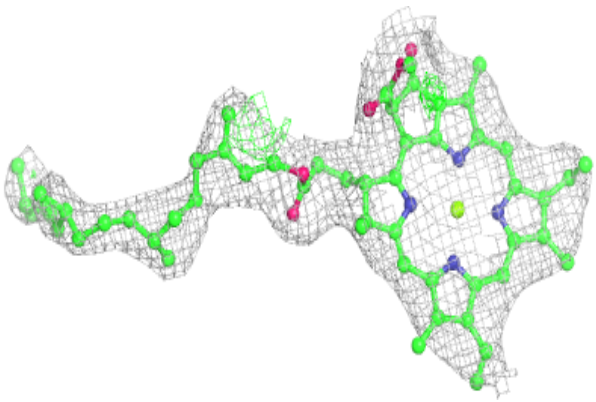


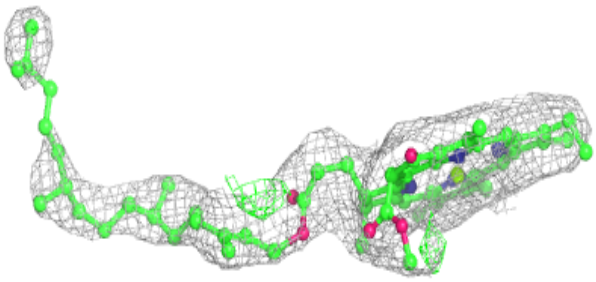


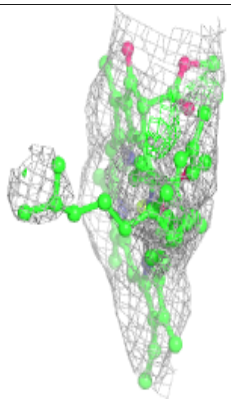


Electron density around CLA A 1103:

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

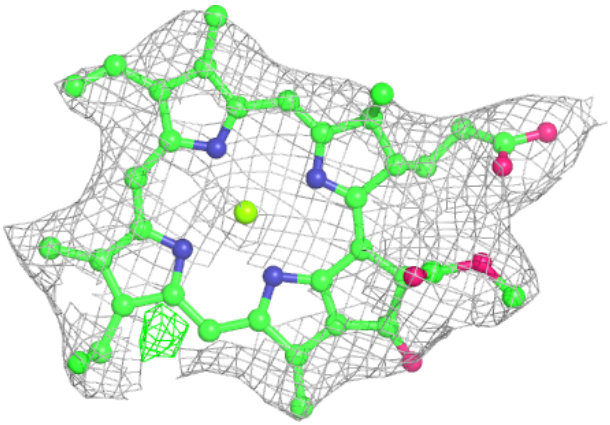


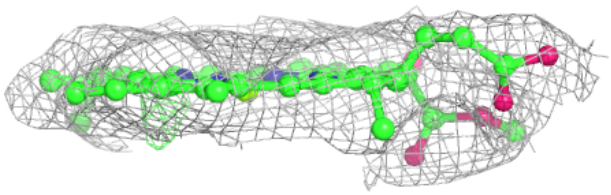


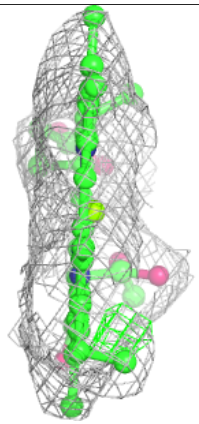


Electron density around CLA F 1301:

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

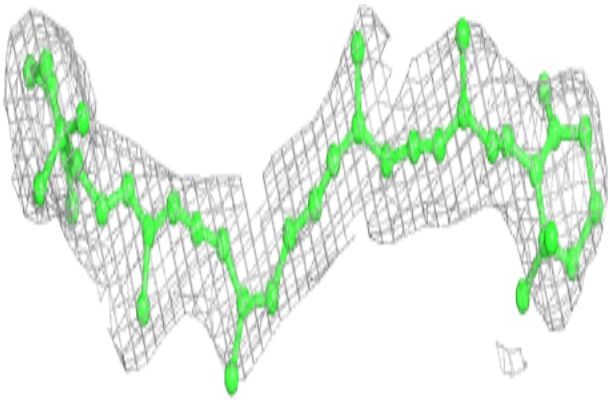


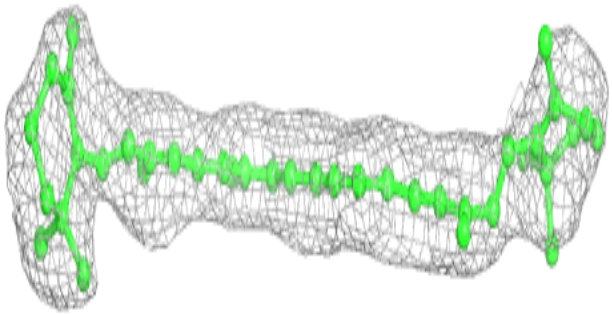


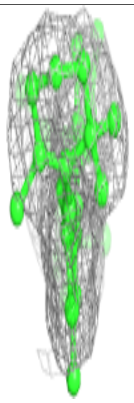


Electron density around BCR A 6017:

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

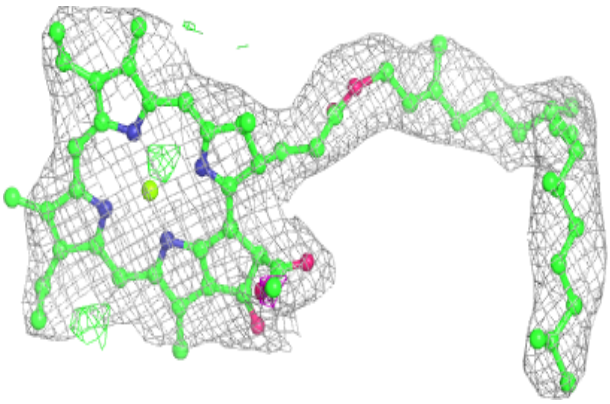


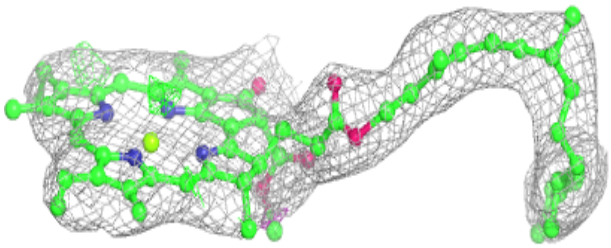


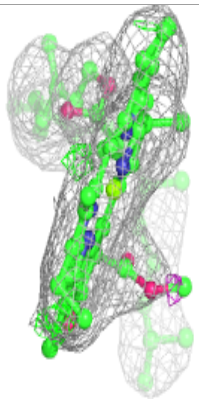


Electron density around CLA B 1223:

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

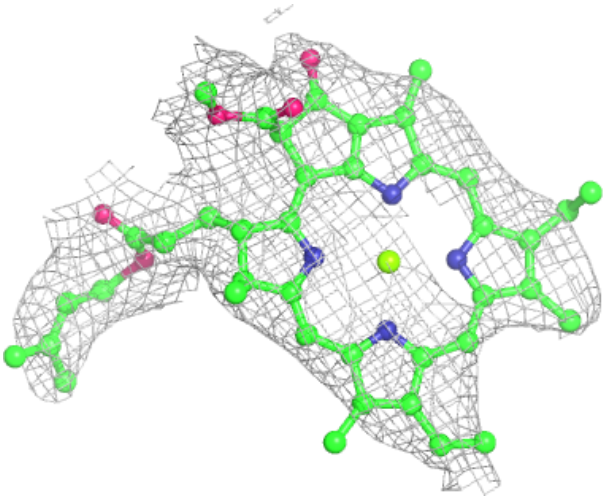


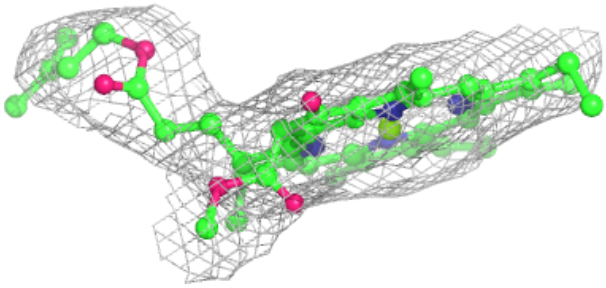


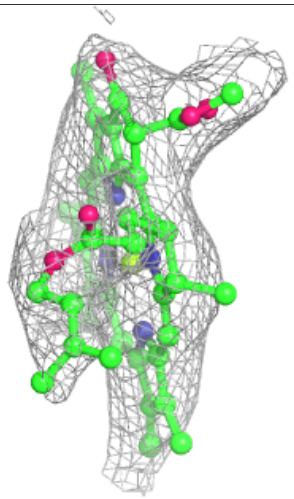


Electron density around CLA 4 4009:

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

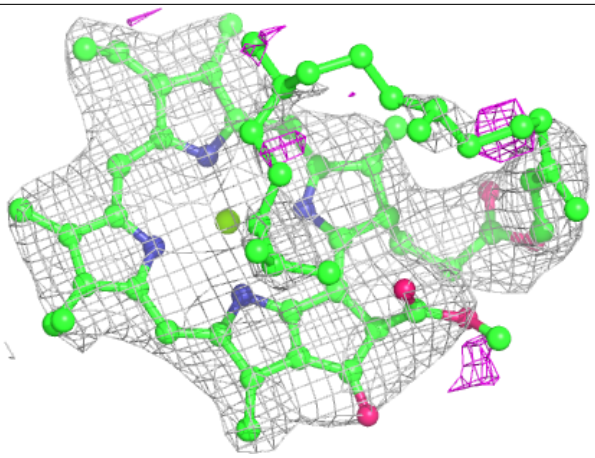


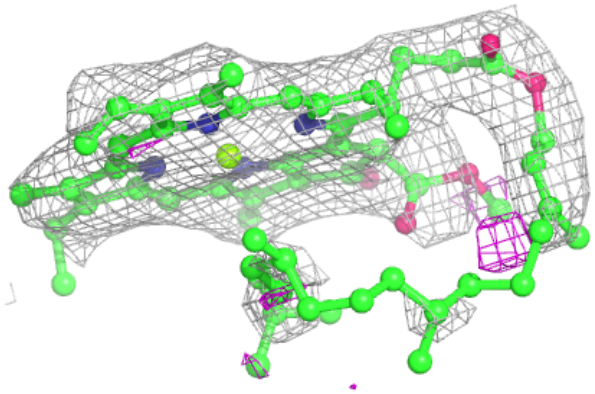


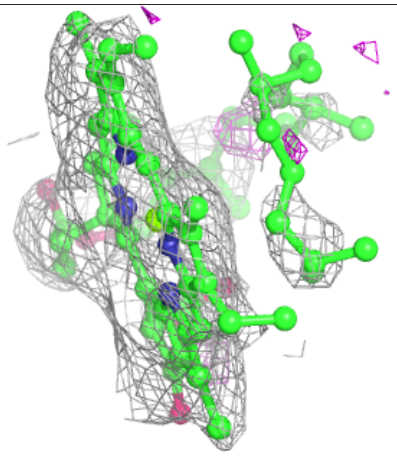


Electron density around CLA A 1104:

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

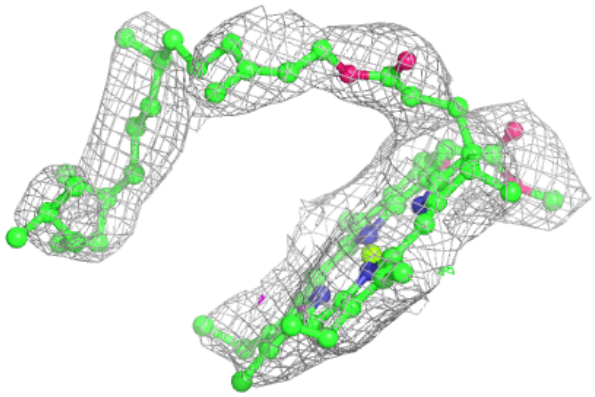


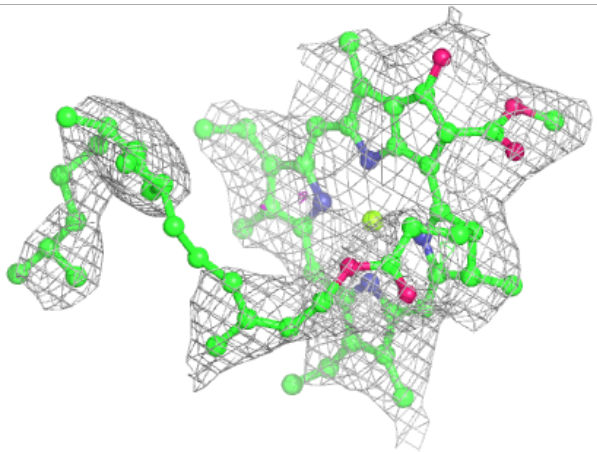


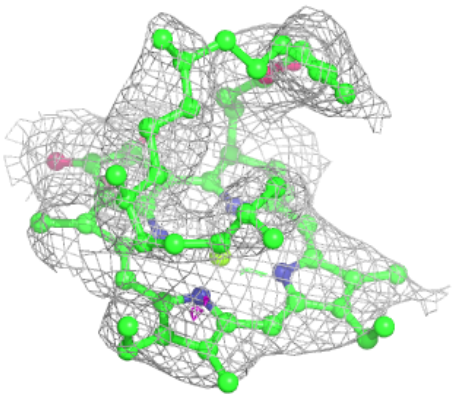


Electron density around CLA B 1227:

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

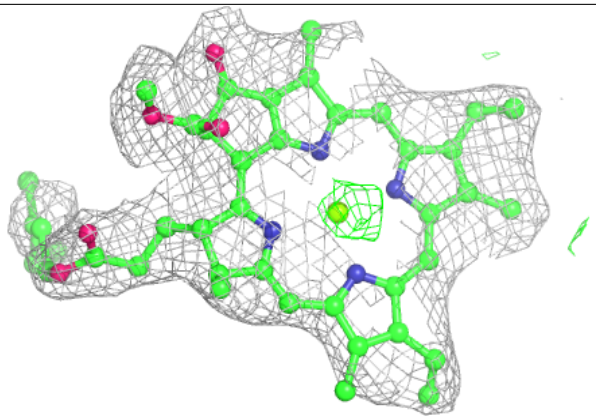


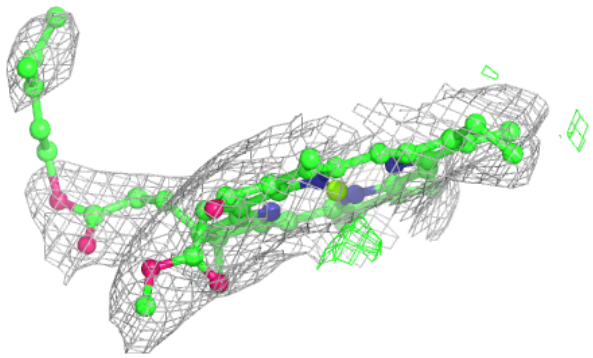


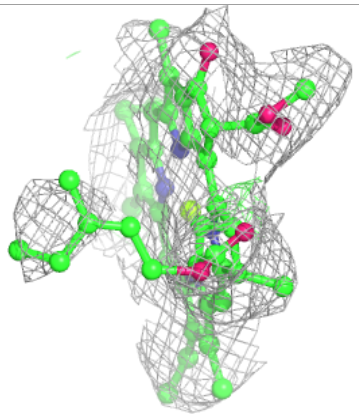


Electron density around CLA 4 4013:

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

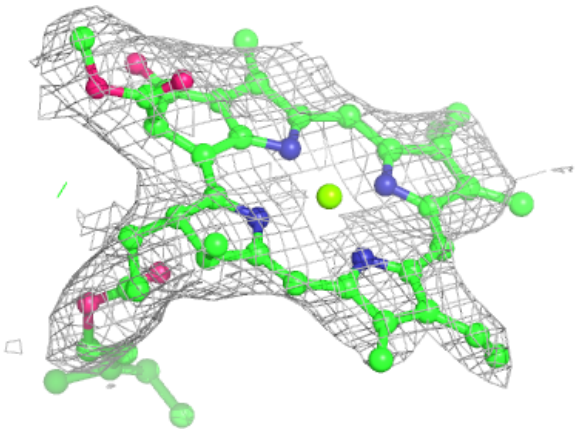


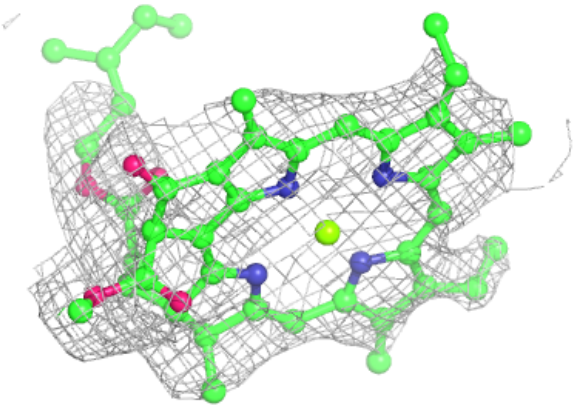


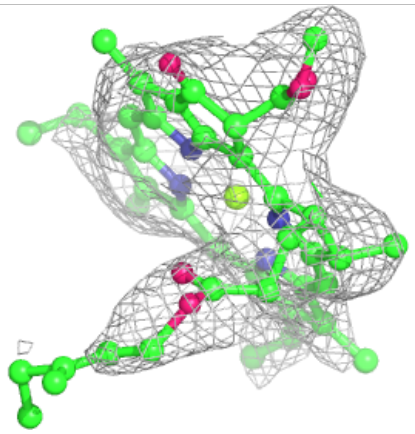


Electron density around CLA A 1105:

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

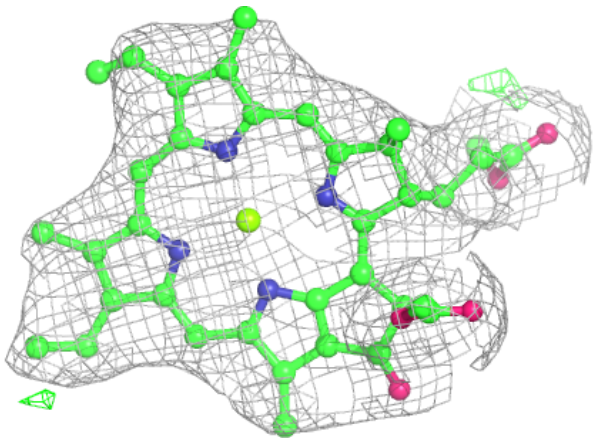


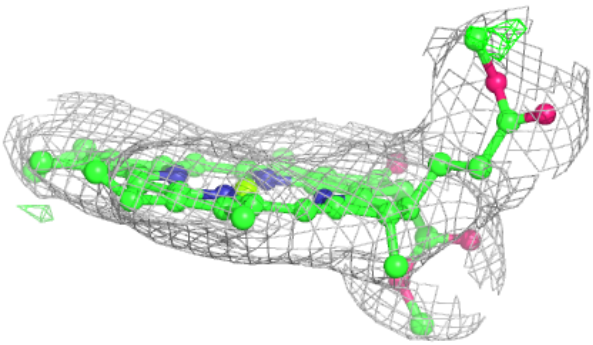


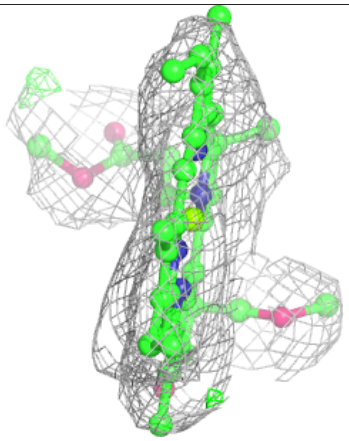


Electron density around CLA 4 4015:

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

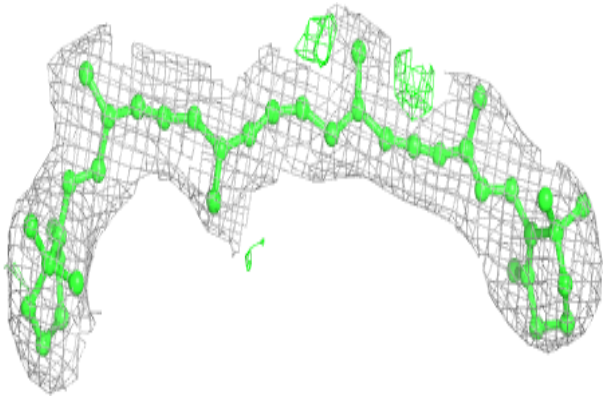


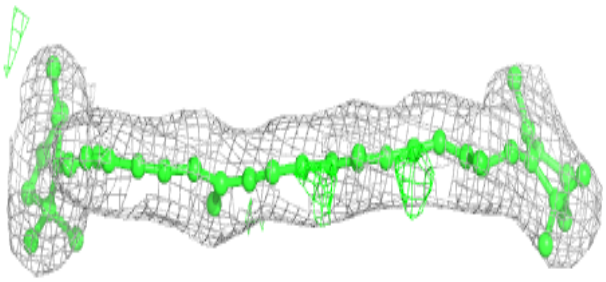




Electron density around BCR I 6020:

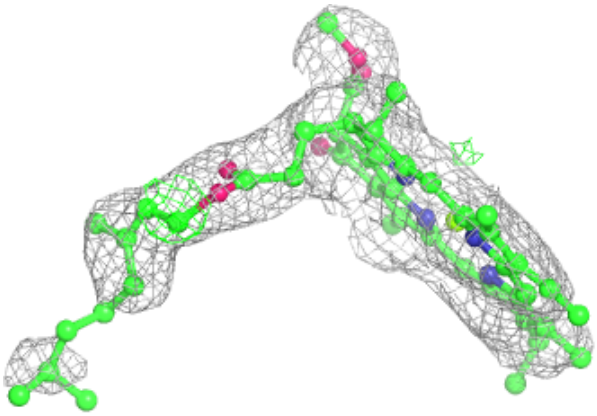
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

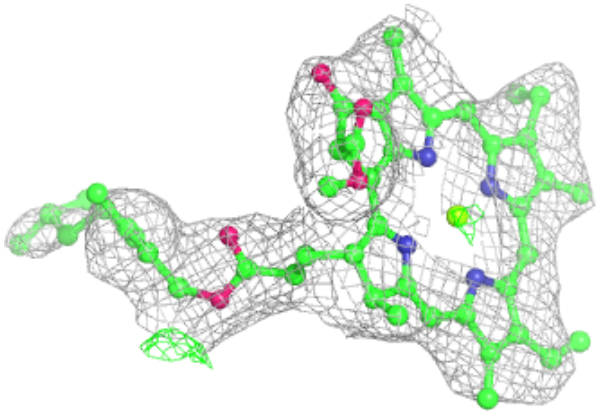


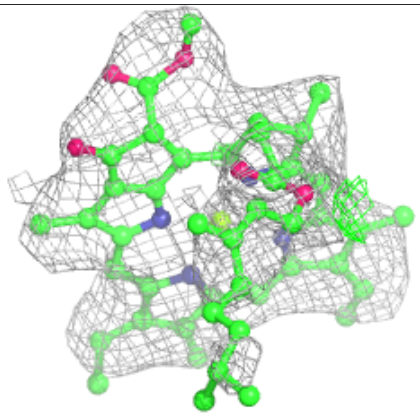


Electron density around CLA A 1137:

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

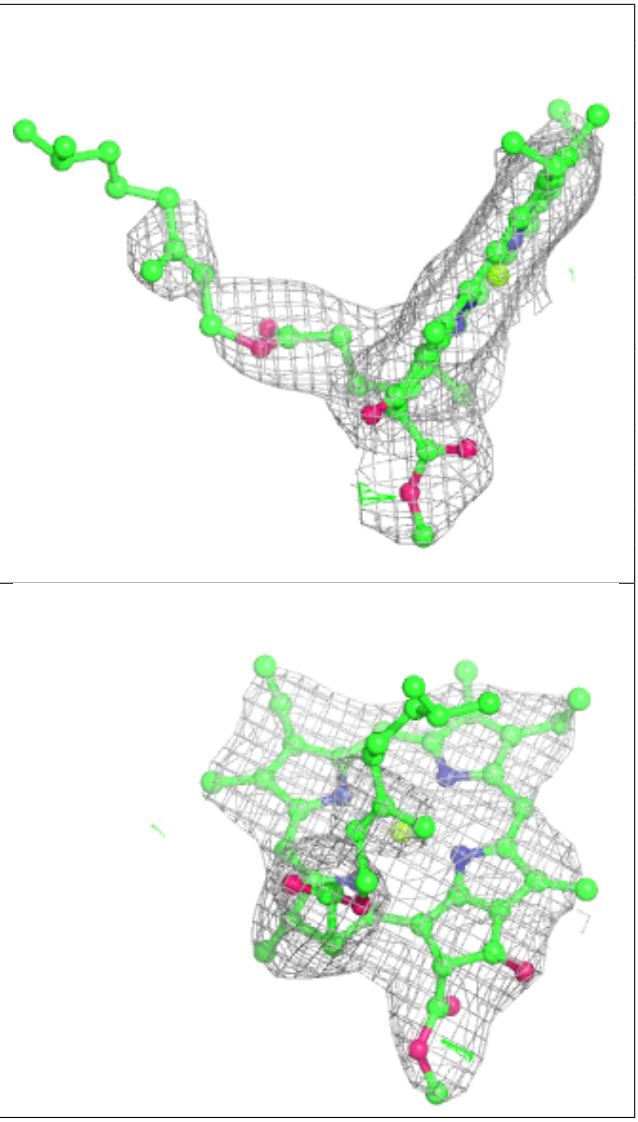






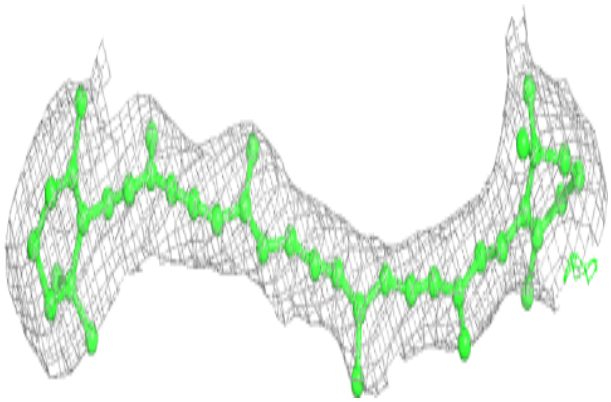
Electron density around CLA B 1236:

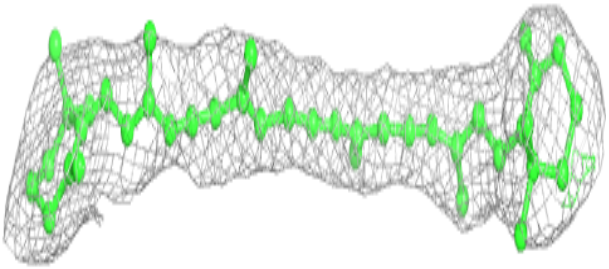
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

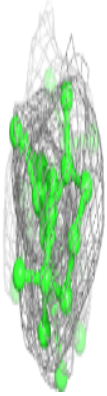


Electron density around BCR L 6020:

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

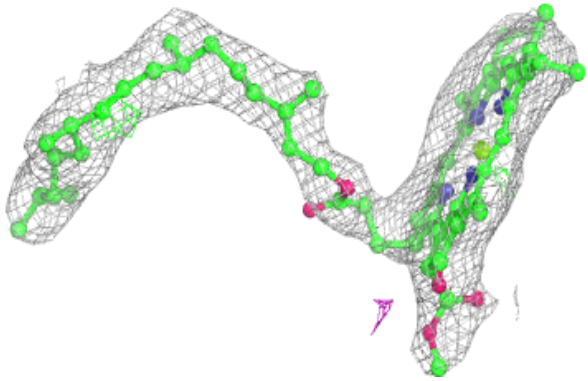


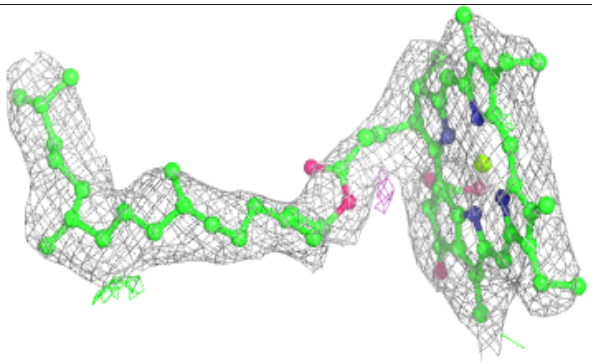


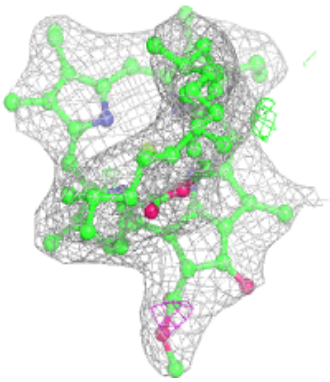


Electron density around CLA B 1238:

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

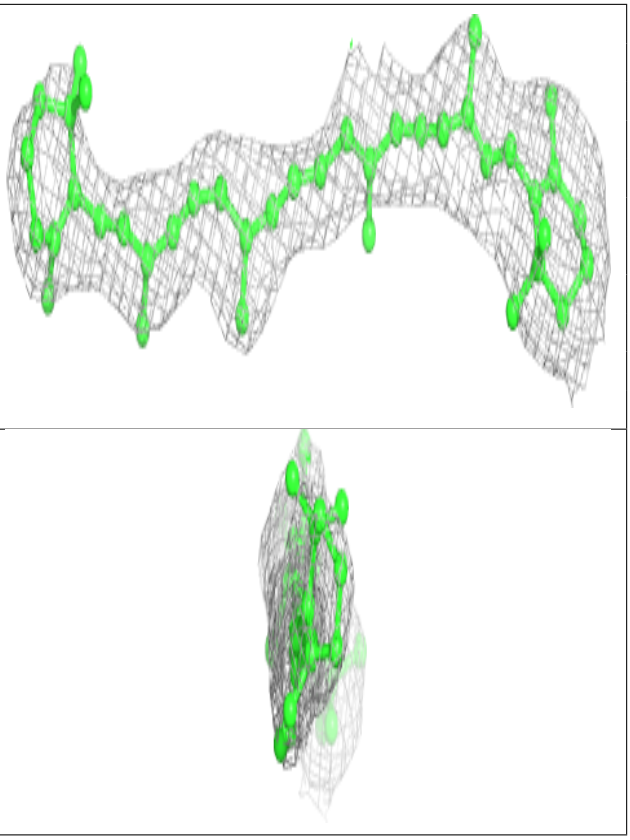






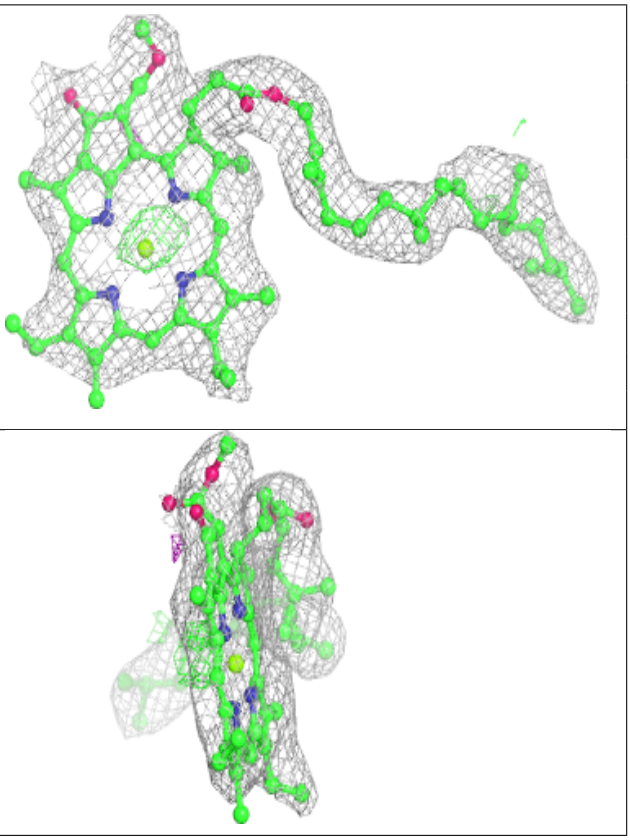
Electron density around BCR J 6012:

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



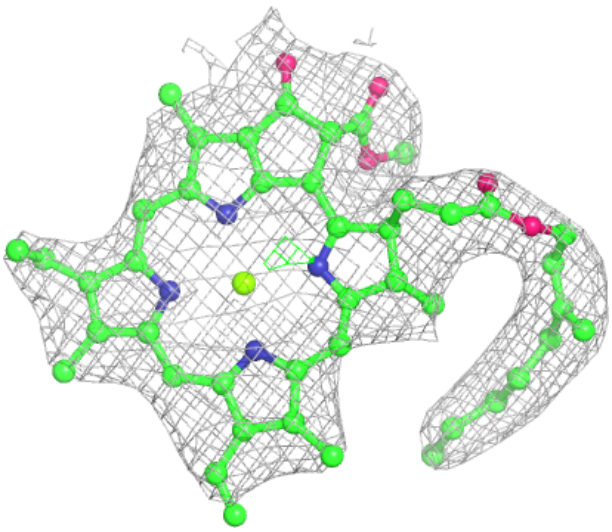
Electron density around CLA B 9023:

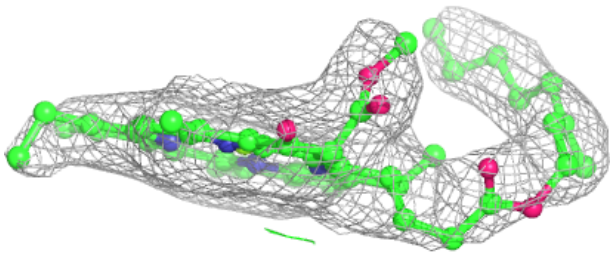
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

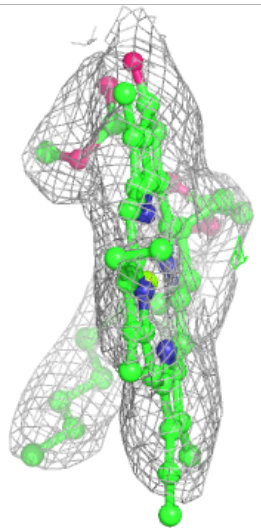


Electron density around CLA B 1221:

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

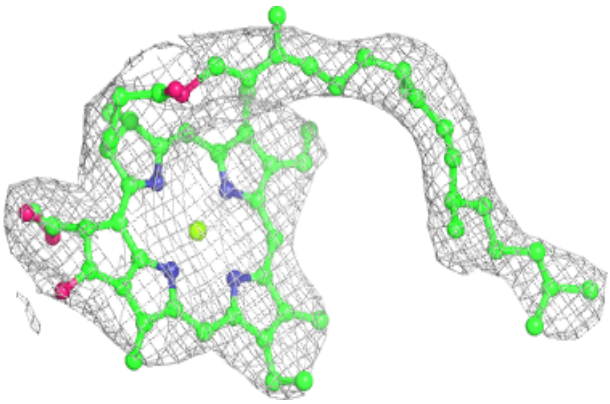


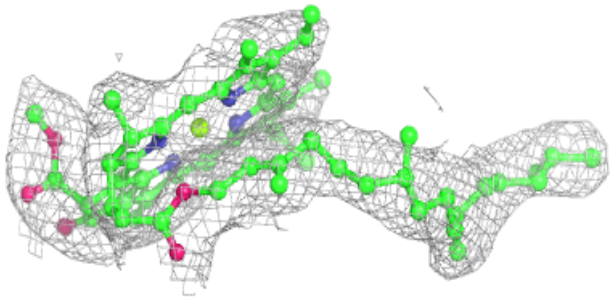


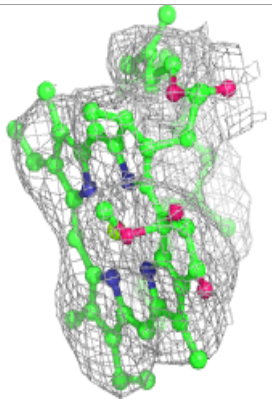


Electron density around CLA 1 1004:

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

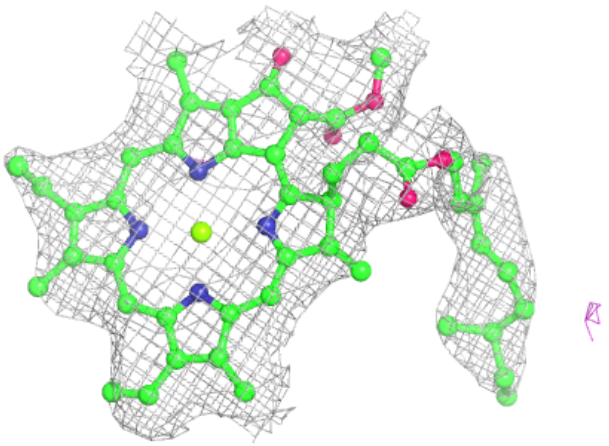


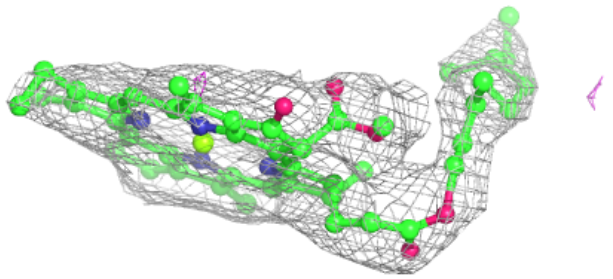


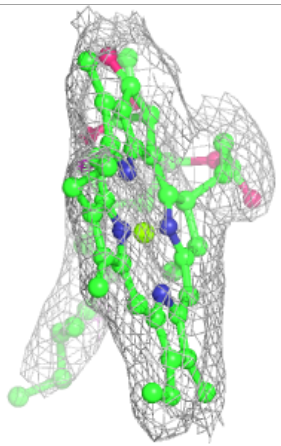


Electron density around CLA 1 1005:

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

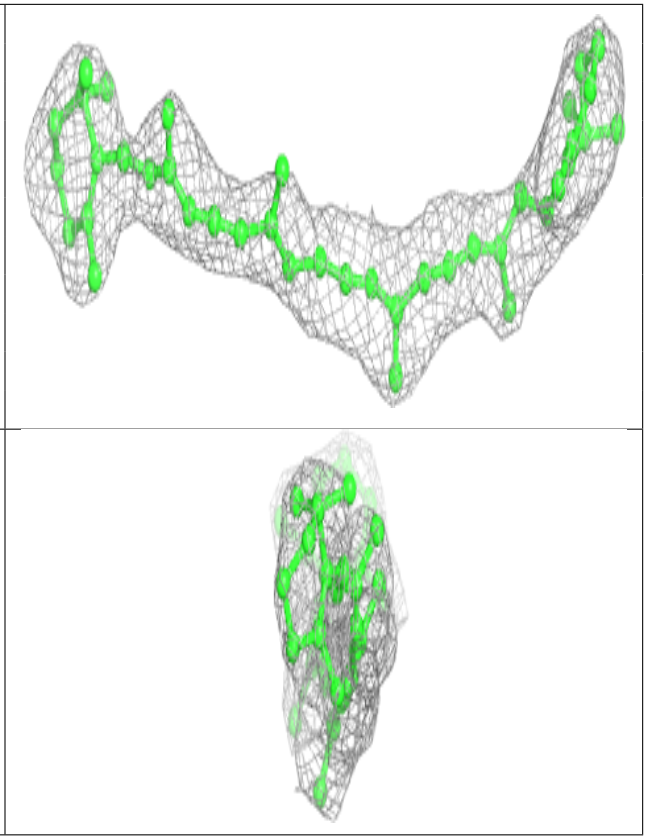






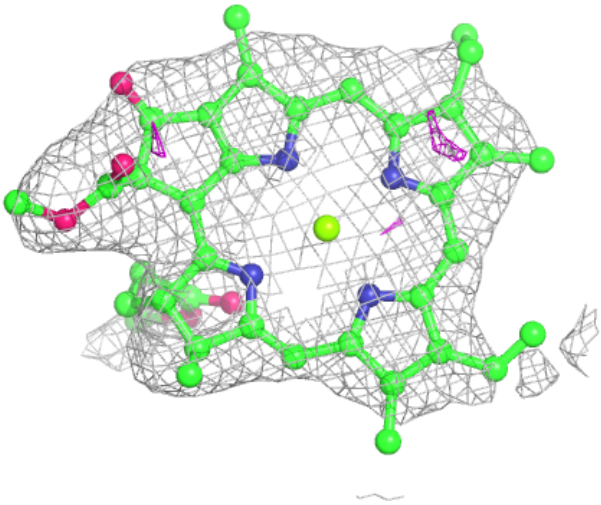
Electron density around BCR F 6014:

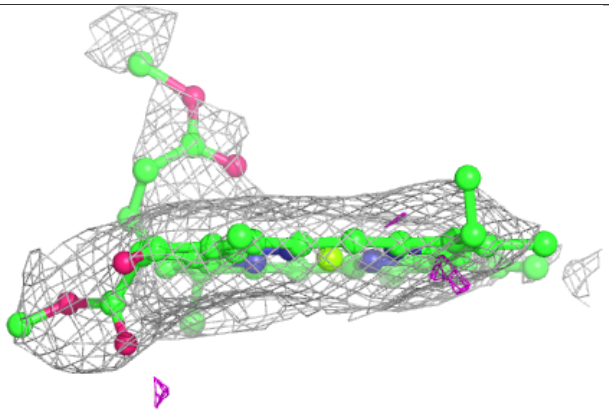
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

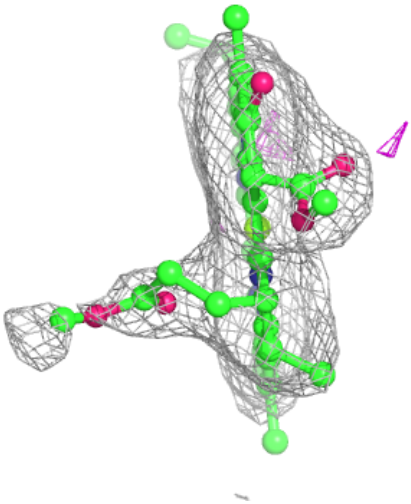


Electron density around CLA L 1501:

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

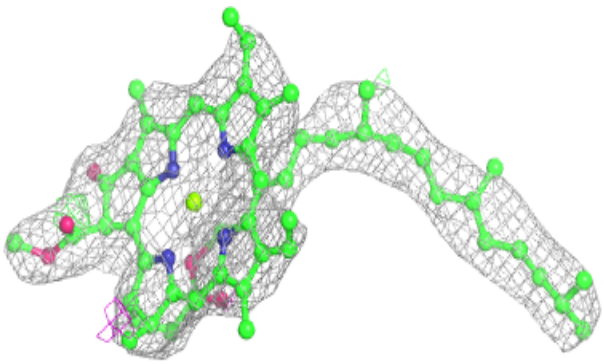


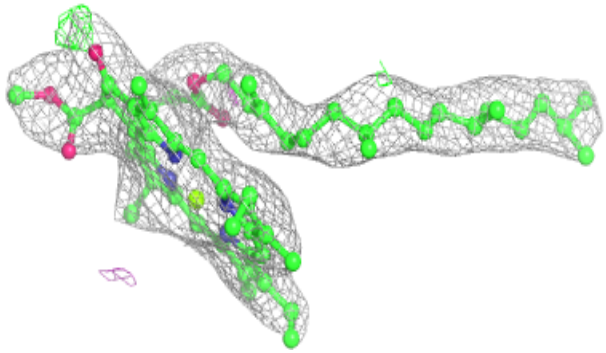


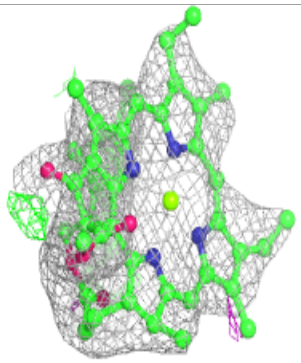


Electron density around CLA A 1140:

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

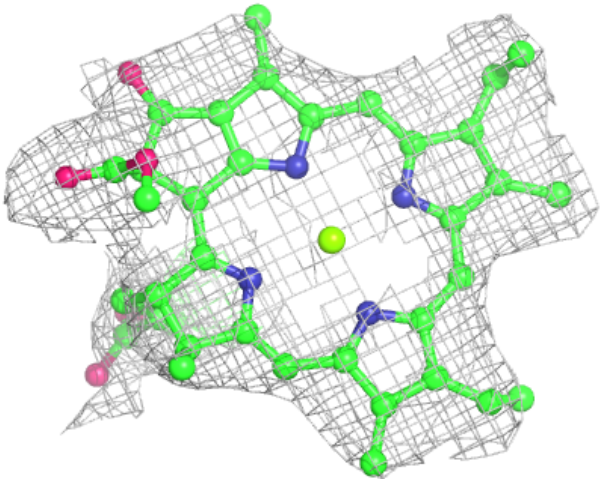


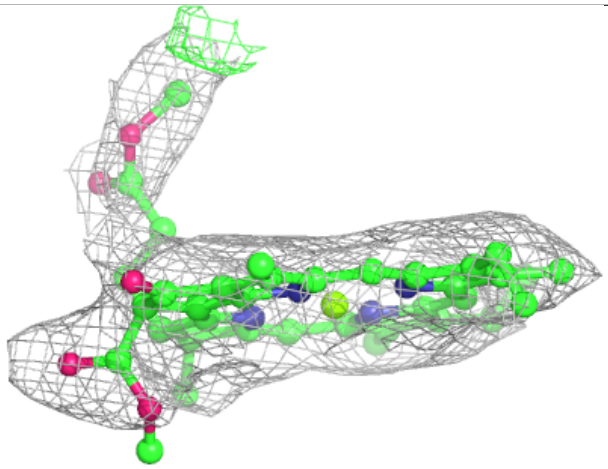


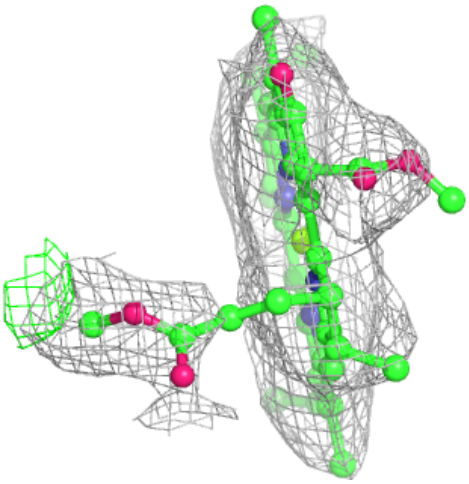


Electron density around CLA A 1130:

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

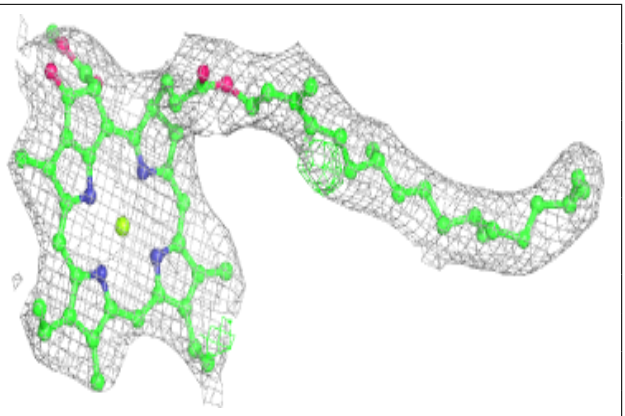


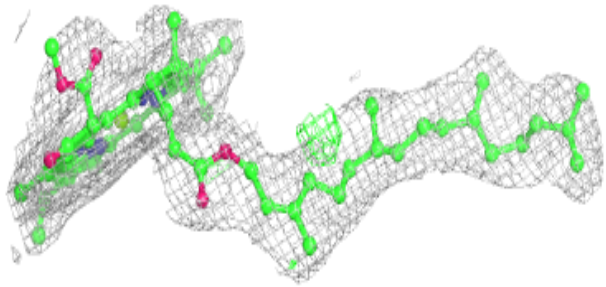


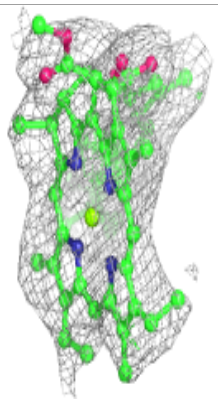


Electron density around CLA A 1132:

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

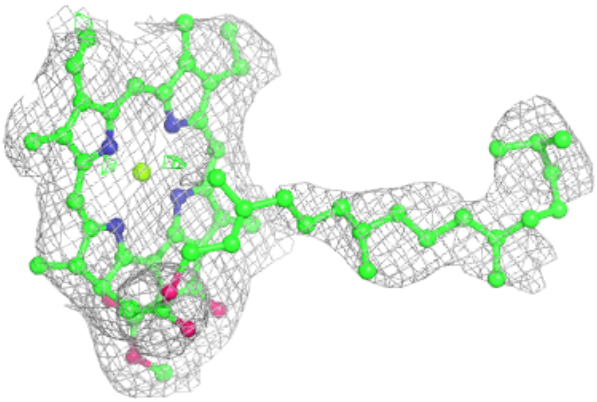


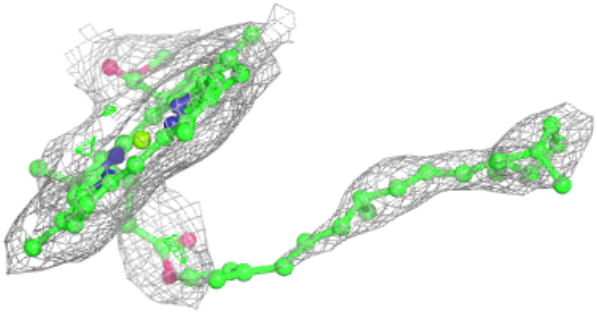


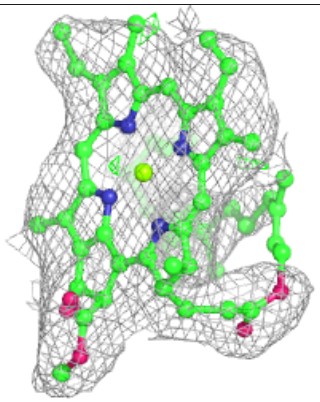


Electron density around CLA 4 4012:

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

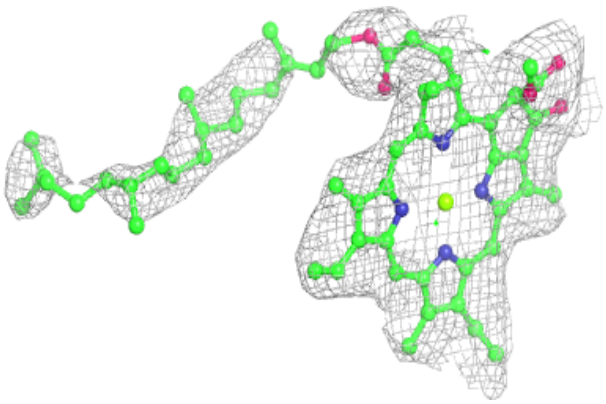


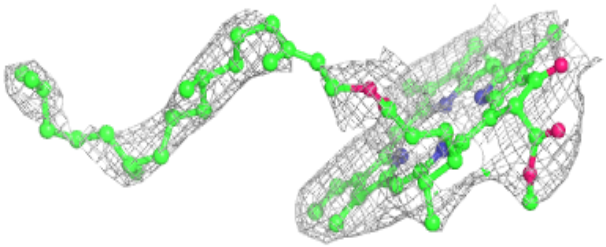


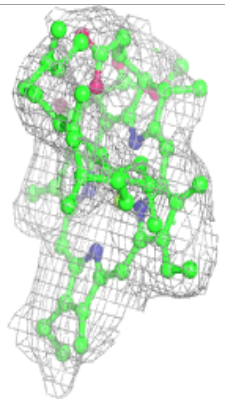


Electron density around CLA A 1106:

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

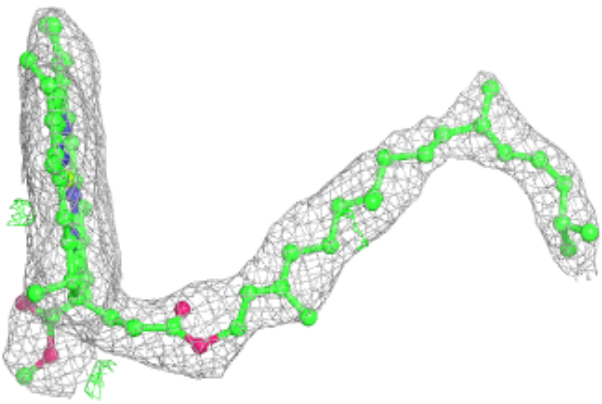


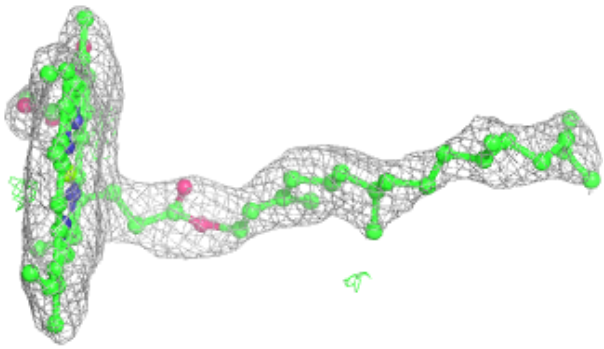


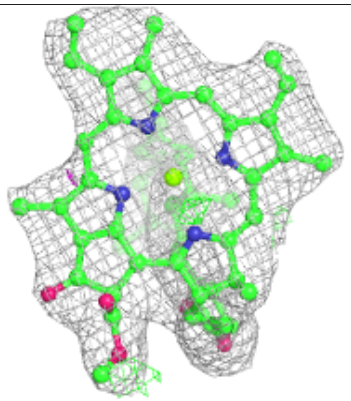


Electron density around CLA B 1239:

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

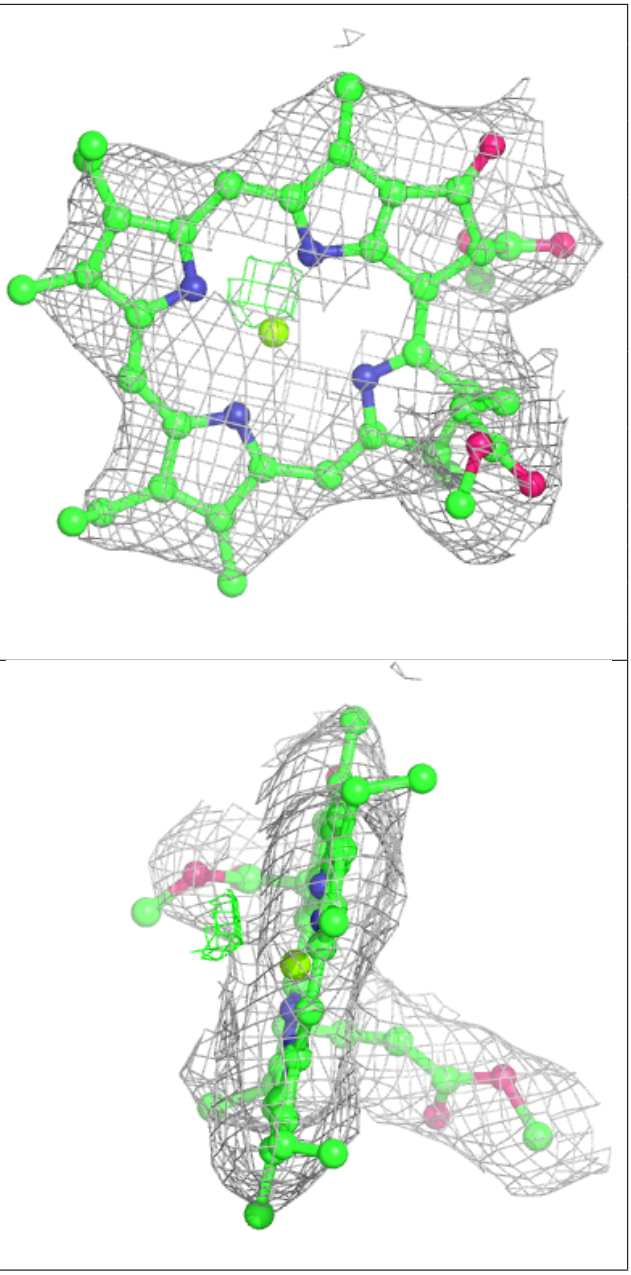






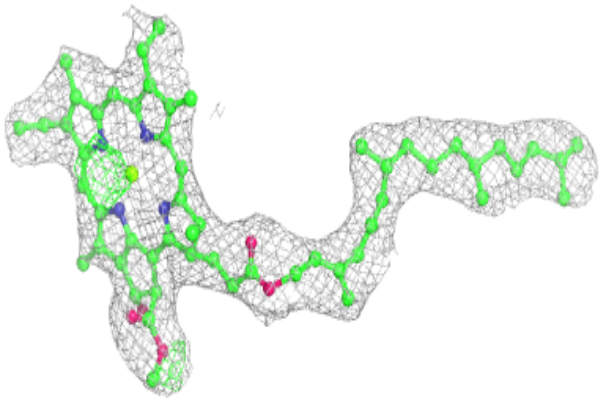
Electron density around CLA B 1217:

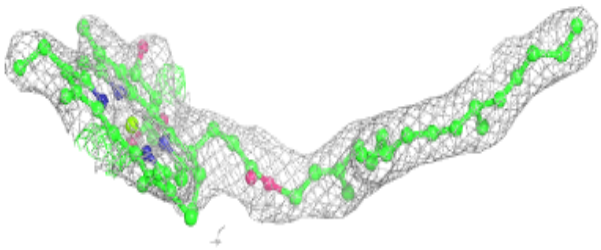
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

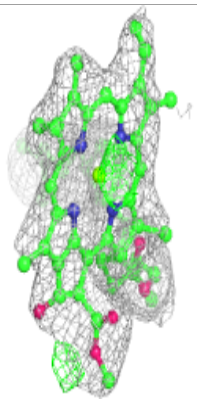


Electron density around CLA B 9022:

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

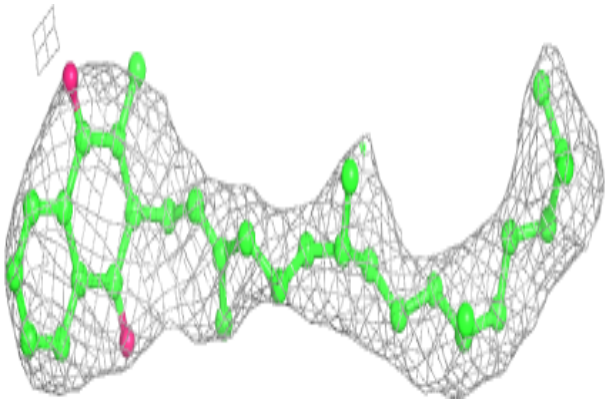


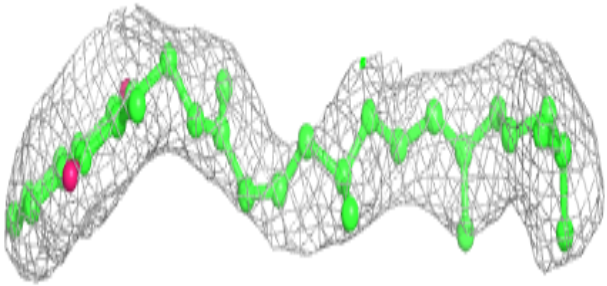


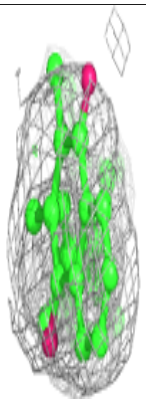


Electron density around PQN A 5001:

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

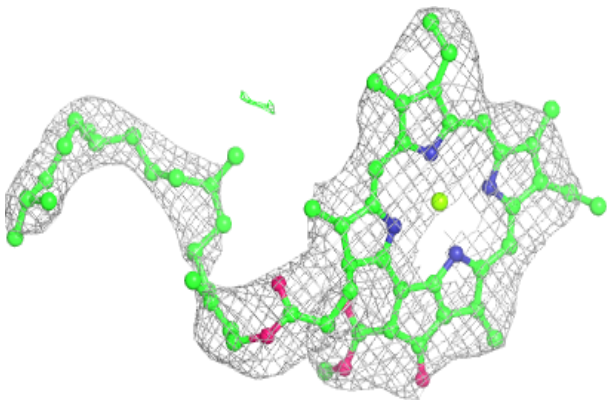


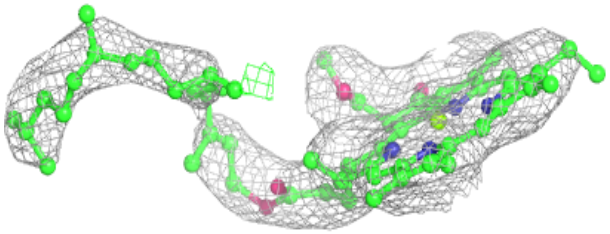


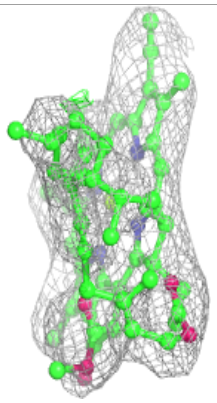


Electron density around CLA A 1101:

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

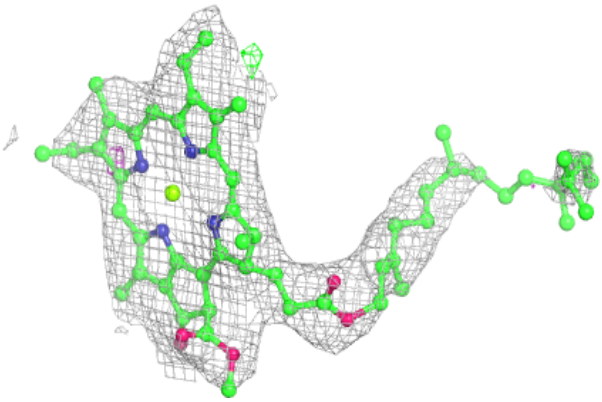


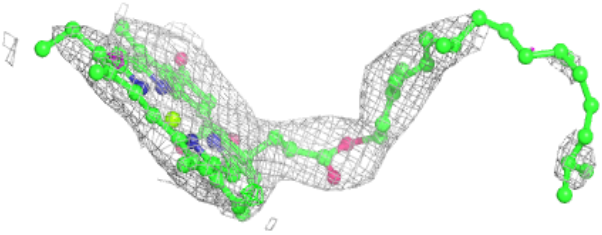


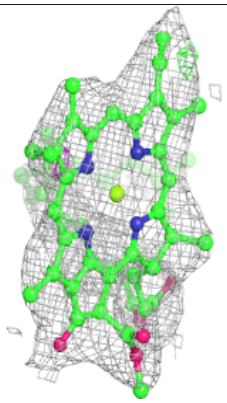


Electron density around CLA B 1206:

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

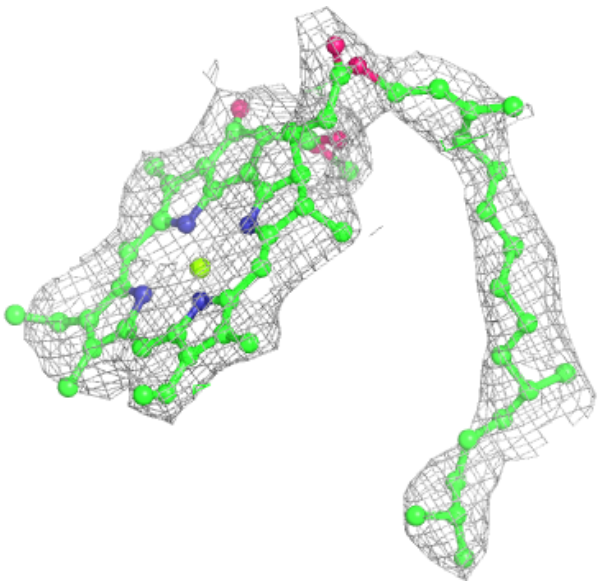


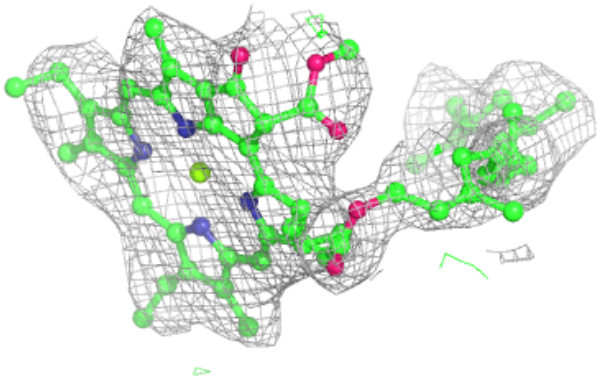


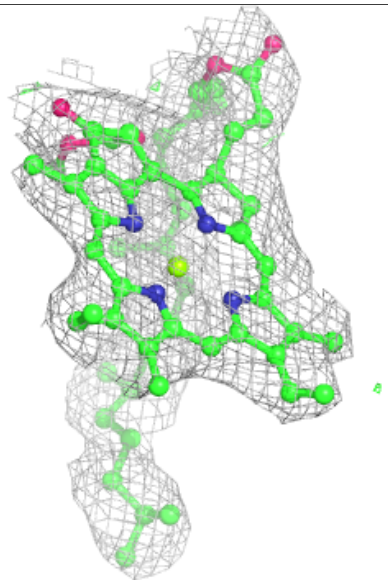


Electron density around CLA B 1207:

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

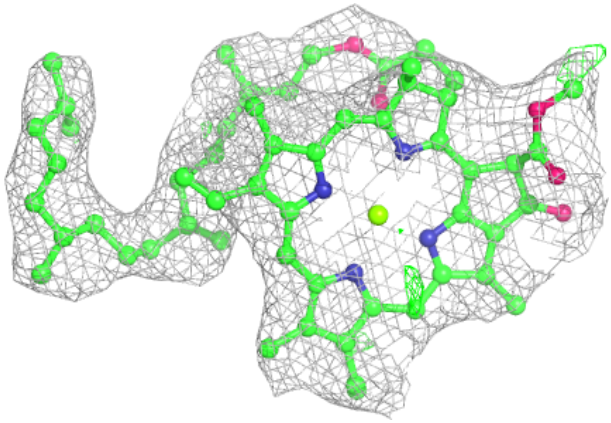


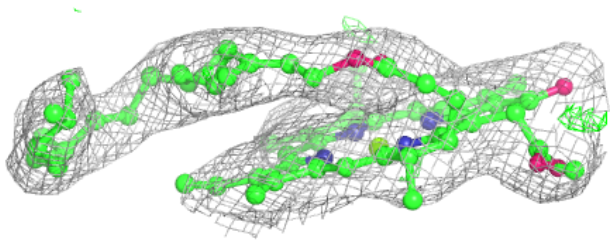


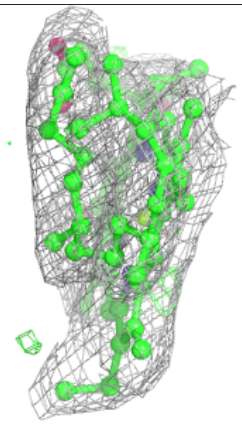


Electron density around CLA A 1117:

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

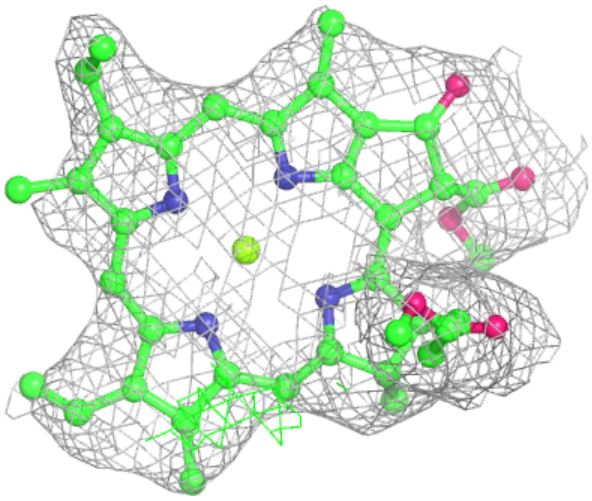


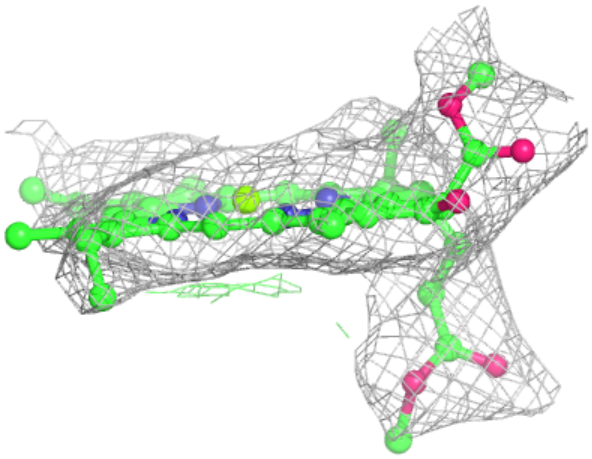


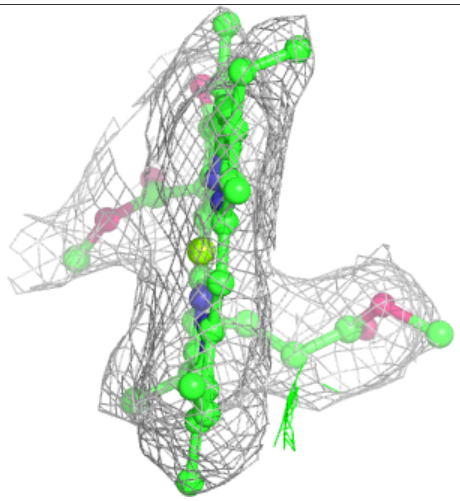


Electron density around CLA B 1209:

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

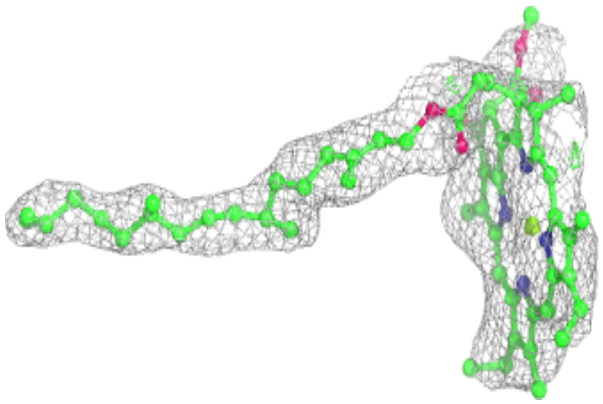


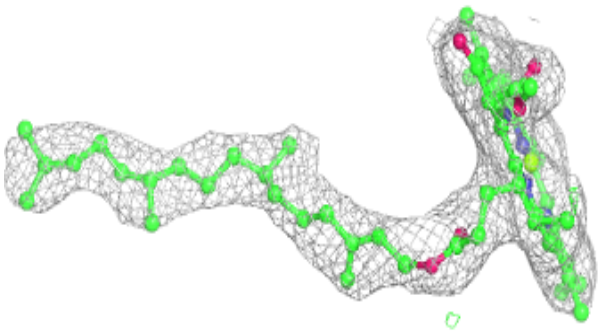


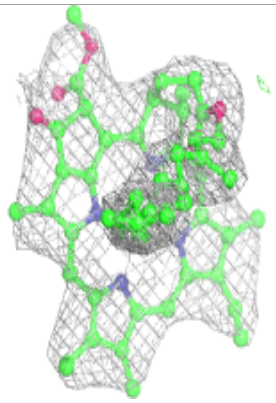


Electron density around CLA B 1225:

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

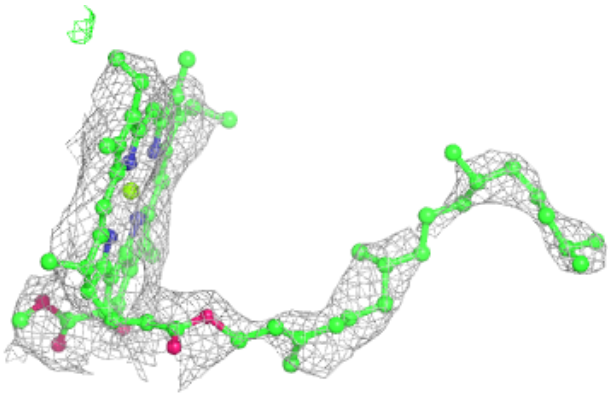


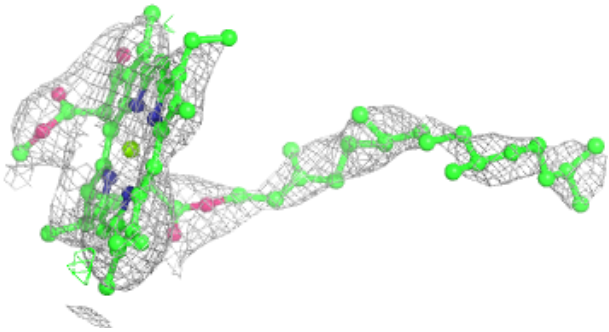


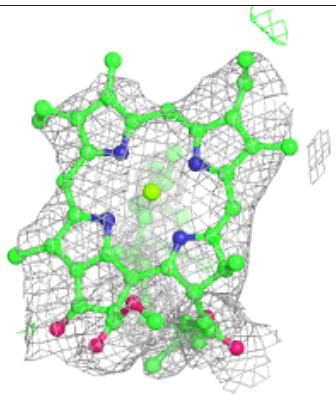


Electron density around CLA A 1128:

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

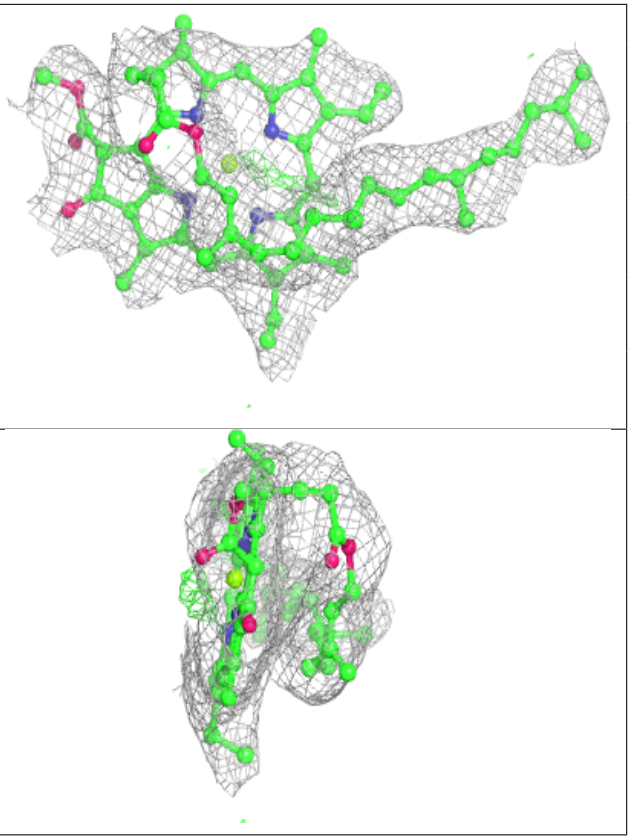






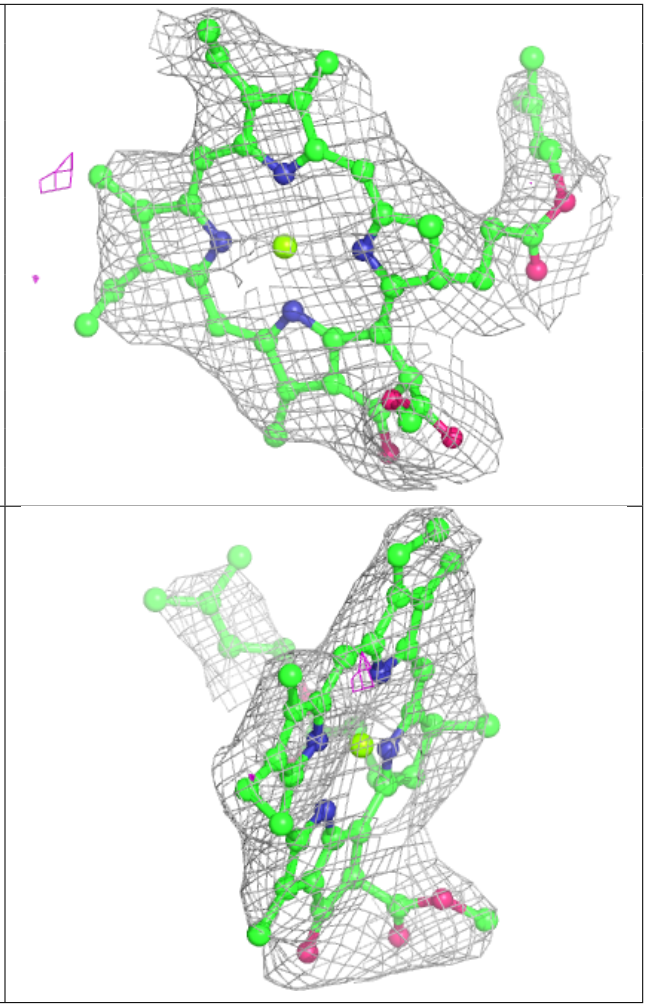
Electron density around CLA A 1138:

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



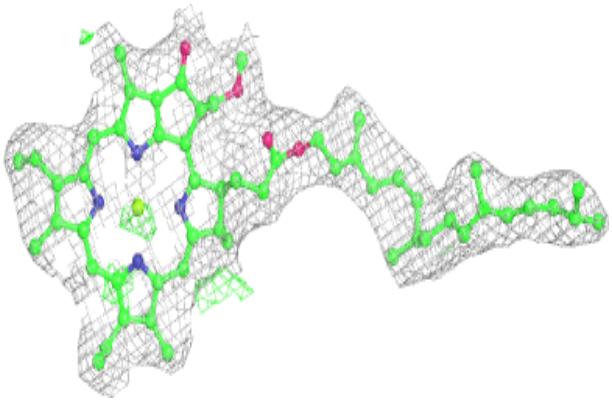
Electron density around CLA A 1102:

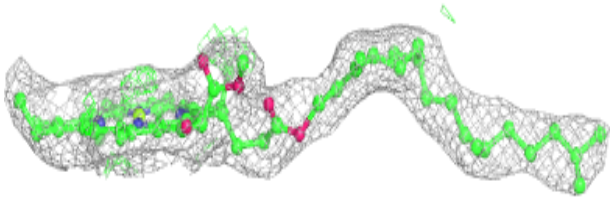
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

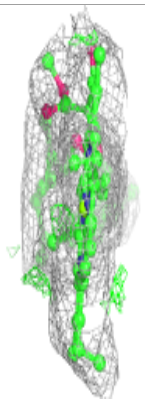


Electron density around CLA A 1131:

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

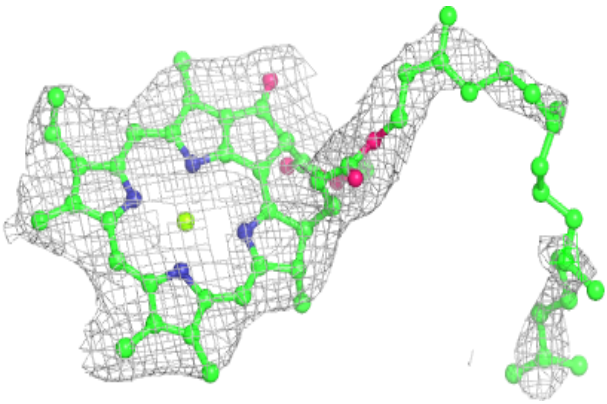


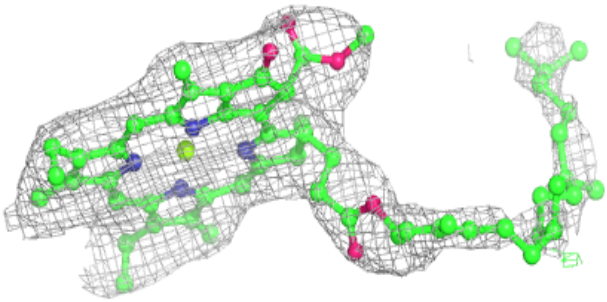


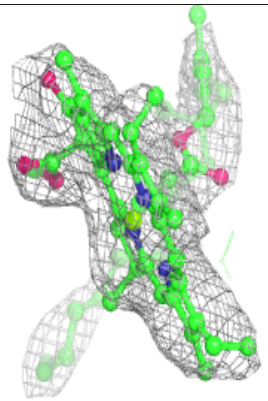


Electron density around CLA B 1220:

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

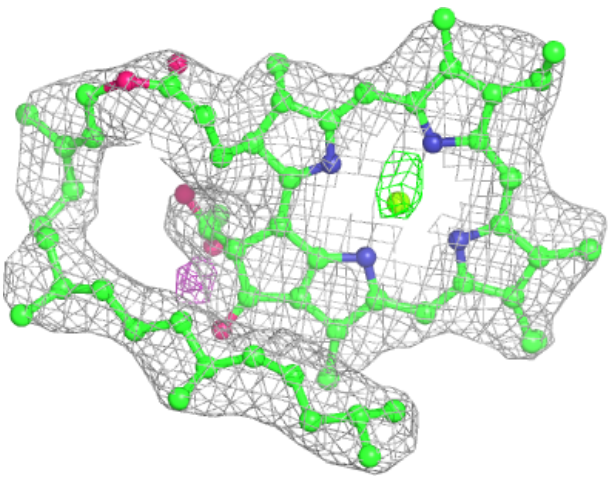


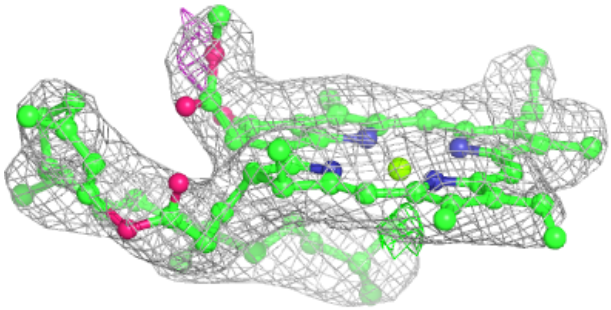


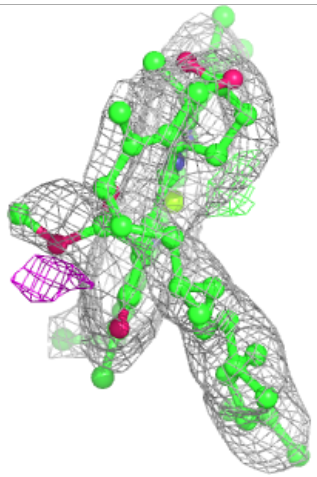


Electron density around CLA B 1202:

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

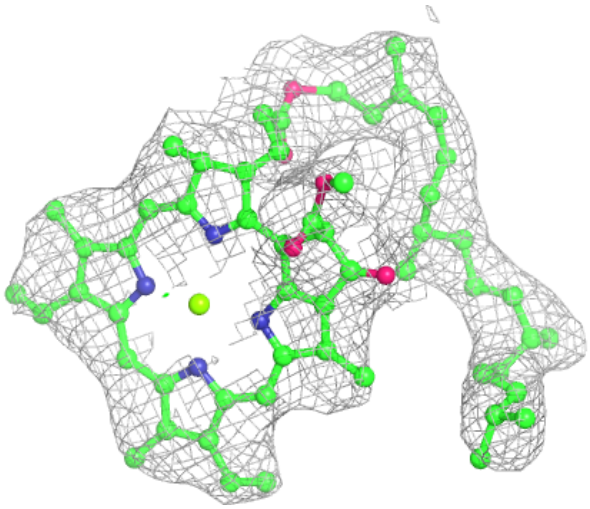


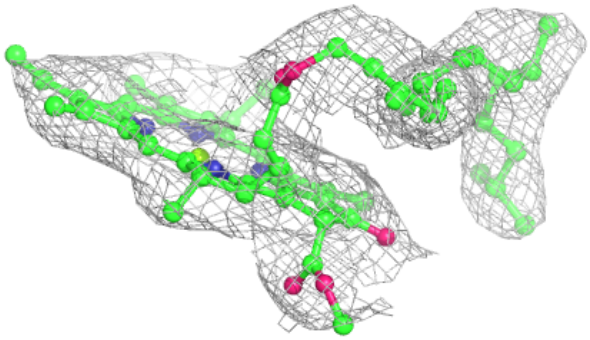


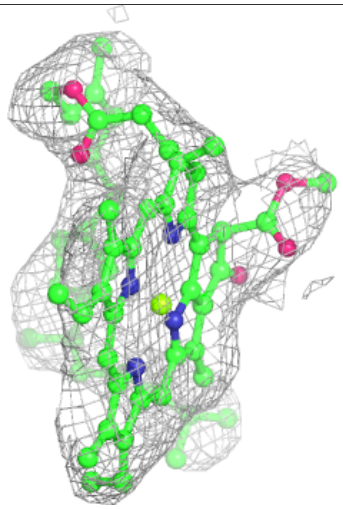


Electron density around CLA B 1229:

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

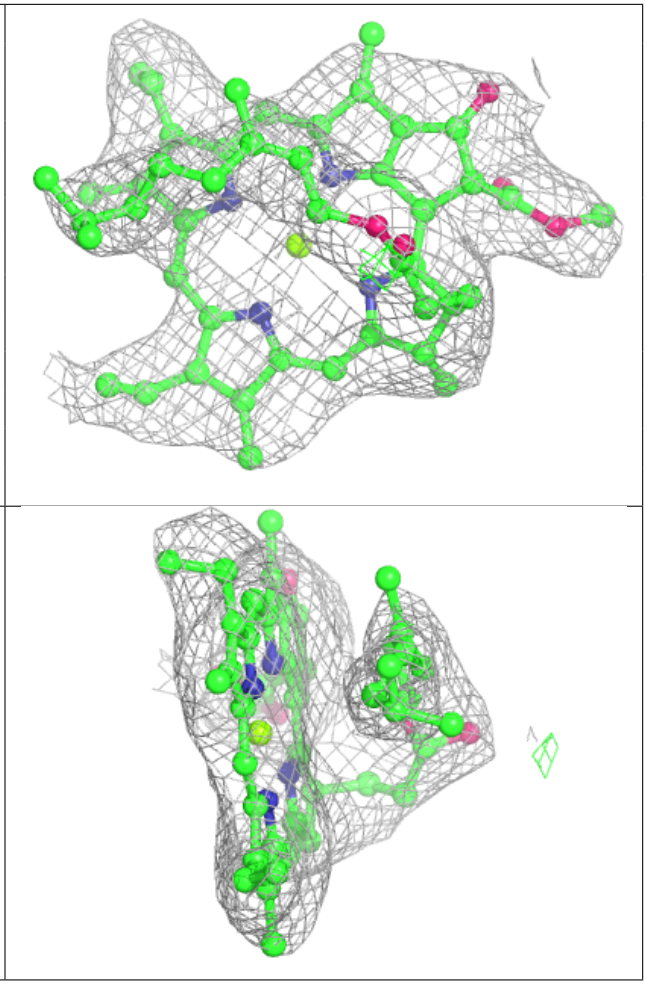






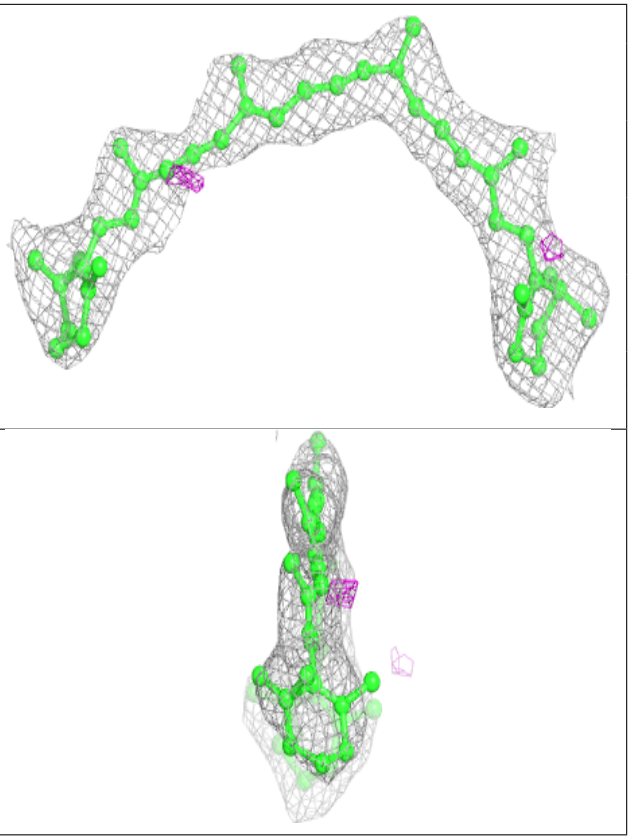
Electron density around CLA B 1204:

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



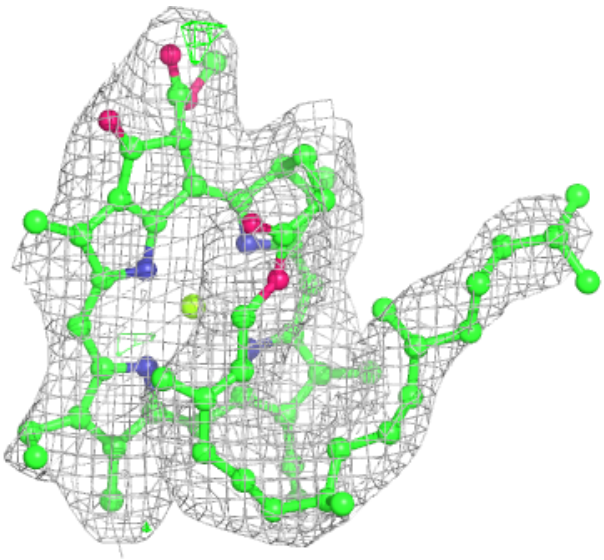
Electron density around BCR F 6016:

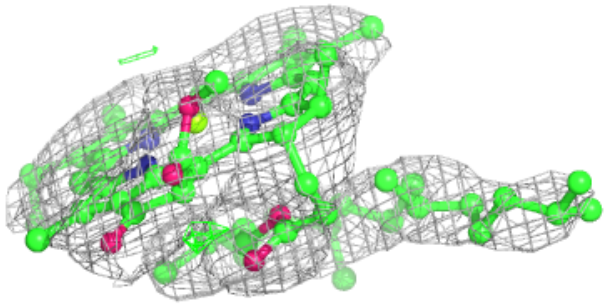
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

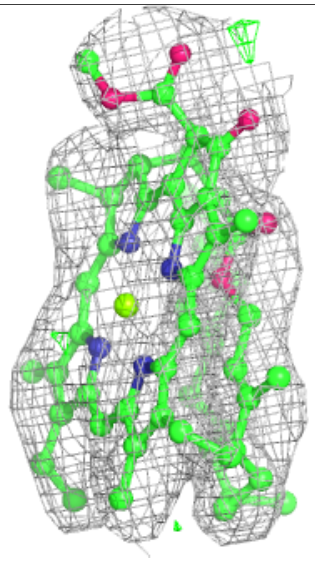


Electron density around CLA B 1205:

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

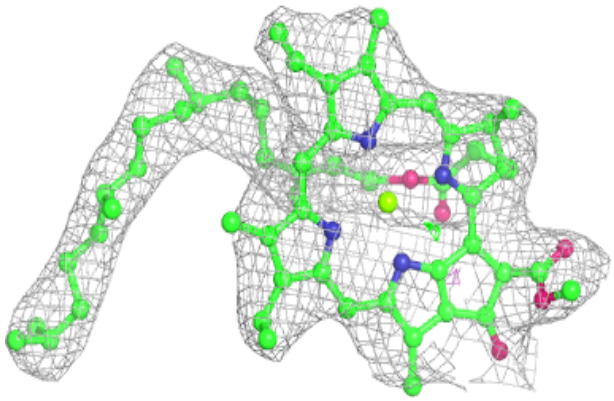


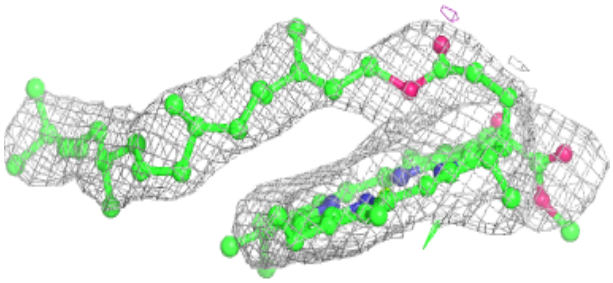


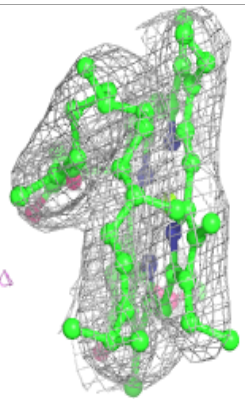


Electron density around CLA B 1235:

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

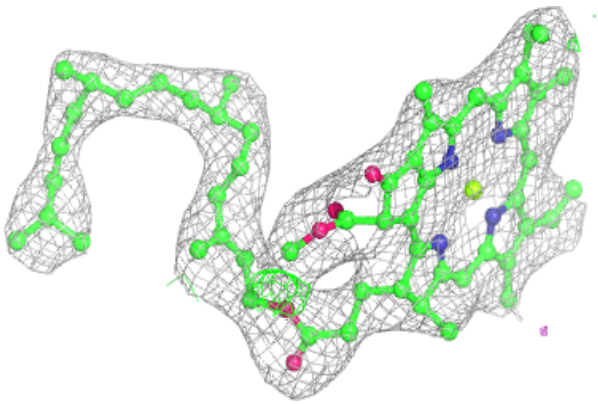


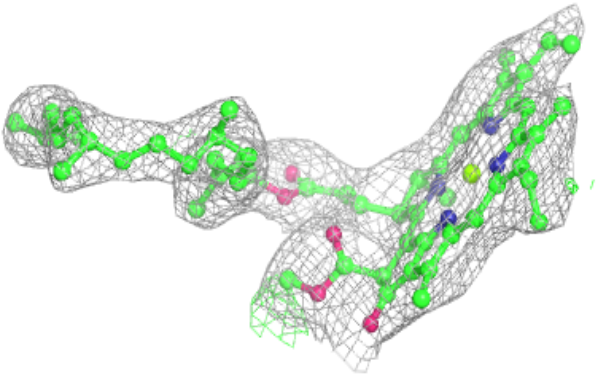


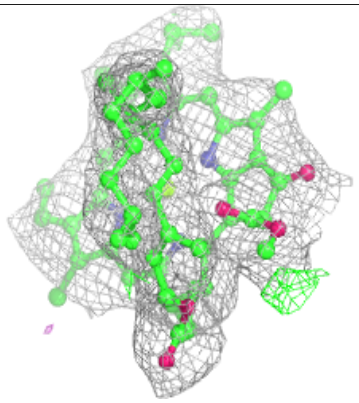


Electron density around CL0 A 9011:

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

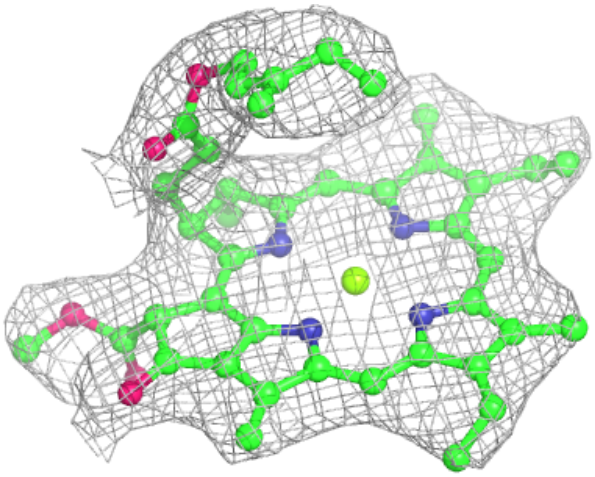


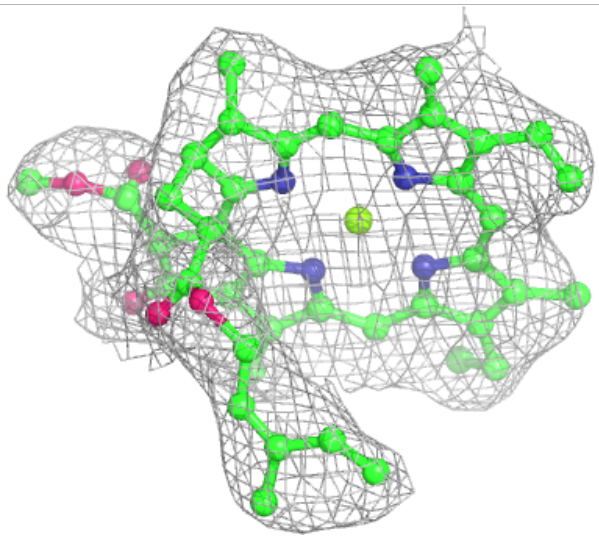


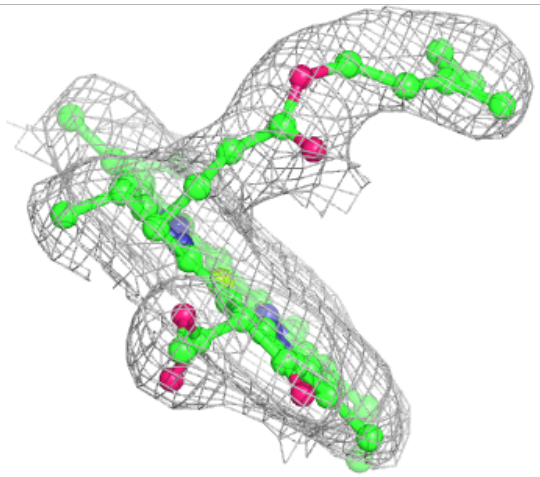


Electron density around CLA B 1228:

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

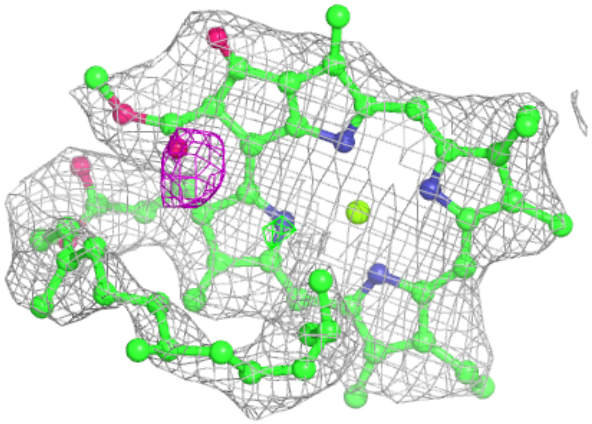


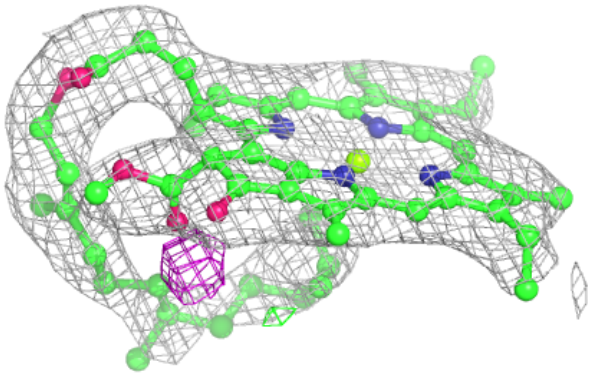


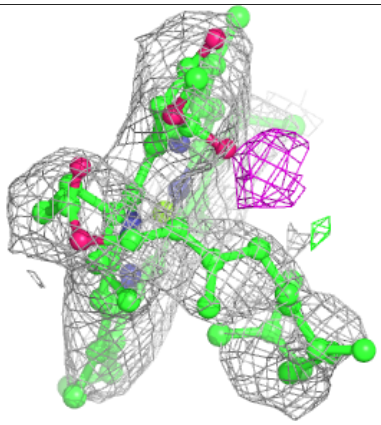


Electron density around CLA B 1203:

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

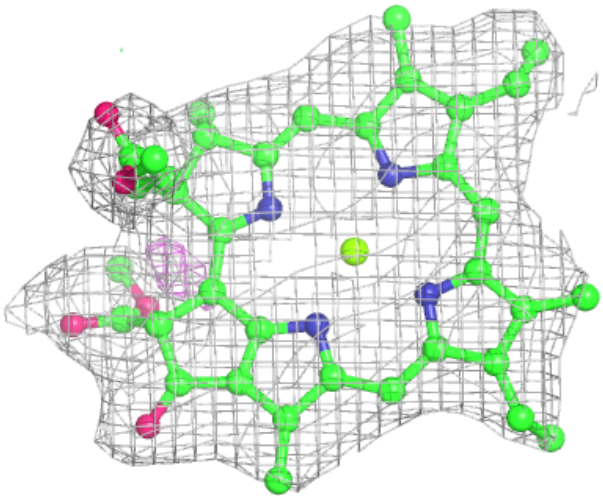


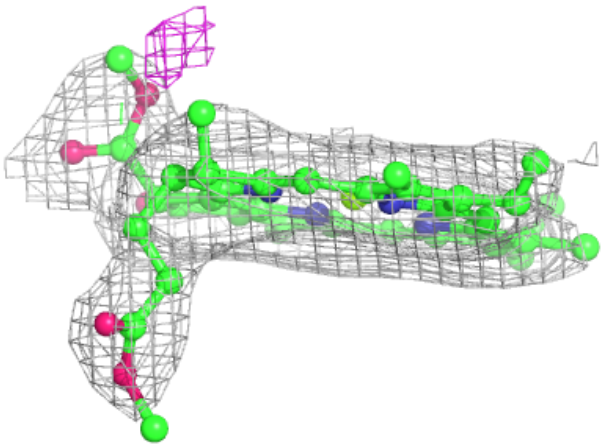


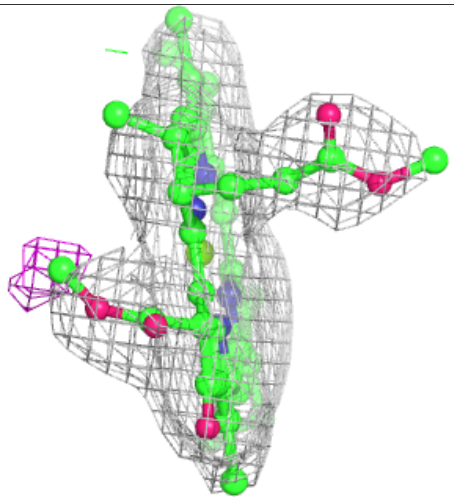


Electron density around CLA B 1201:

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

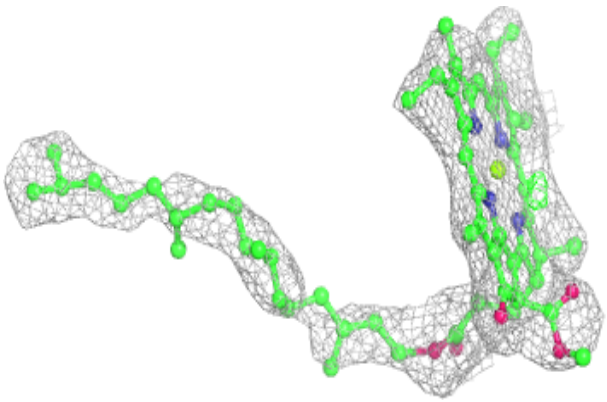


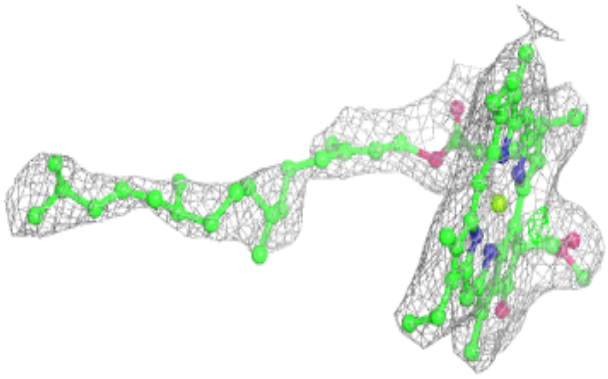


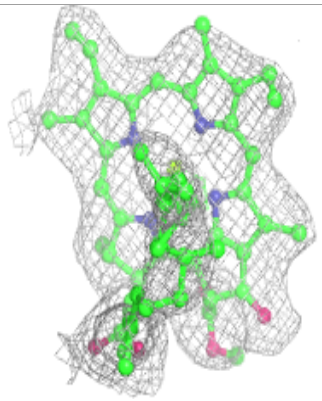


Electron density around CLA B 1226:

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

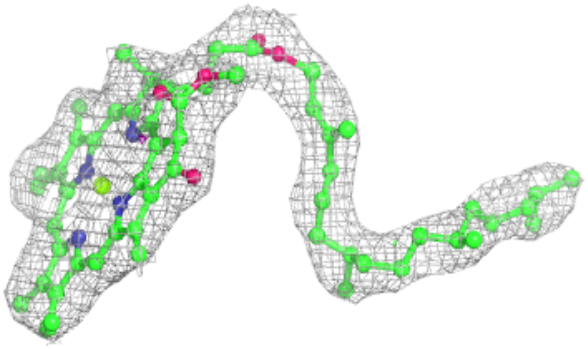


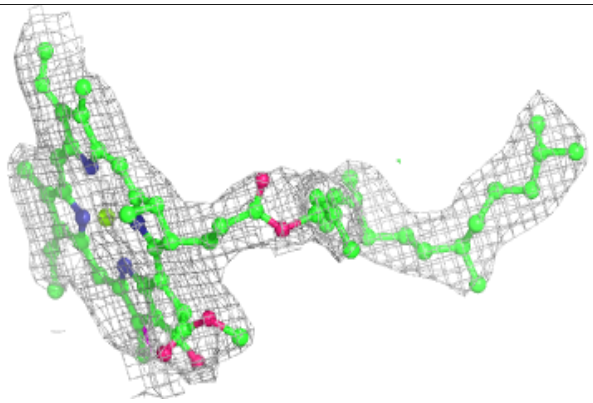


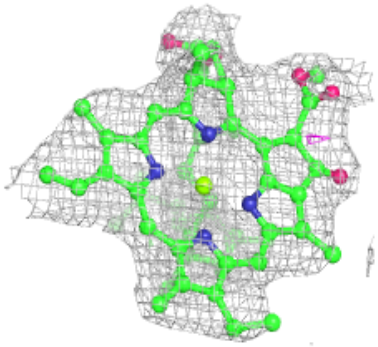


Electron density around CLA B 9010:

$2mF_o$-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.