



Full wwPDB EM Validation Report ⓘ

Jul 24, 2024 – 06:17 PM JST

PDB ID : 8WQL
EMDB ID : EMD-37749
Title : In situ PBS-PSII supercomplex from cyanobacterial *Spirulina platensis*
Authors : You, X.; Zhang, X.; Xiao, Y.N.; Sun, S.; Sui, S.F.
Deposited on : 2023-10-11
Resolution : 3.50 Å (reported)

This is a Full wwPDB EM 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/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev92
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

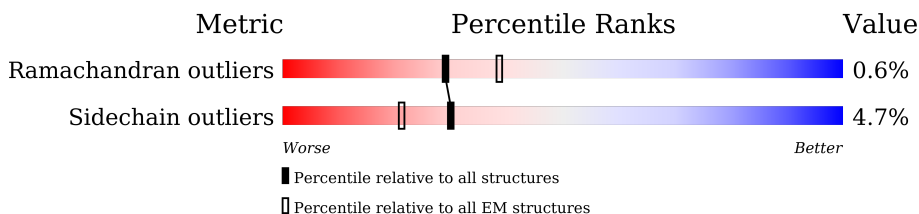
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.50 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	B2	254	 77% 82% 10% • 6%
1	B3	254	 79% 82% 10% •• 6%
1	B5	254	 74% 81% 12% •• 6%
1	B6	254	 83% 83% 10% • 6%
1	B7	254	 79% 81% 11% •• 6%
1	B8	254	 70% 81% 12% •• 6%
1	B9	254	 78% 83% 10% • 6%
1	BA	254	 77% 82% 11% •• 6%
1	BC	254	 79% 81% 11% •• 6%

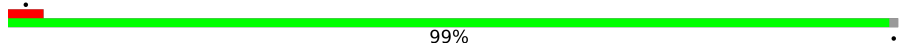
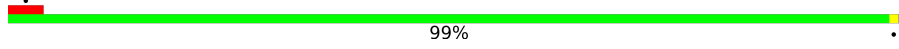
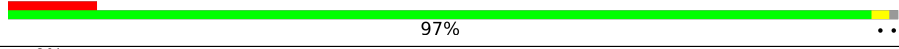
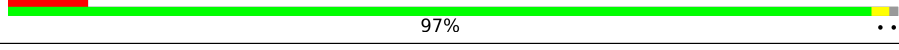
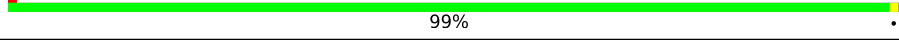
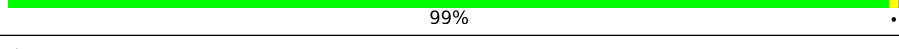
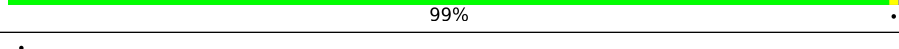
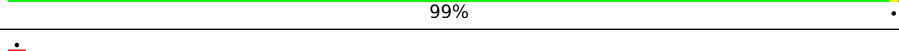
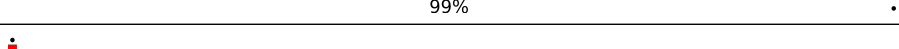
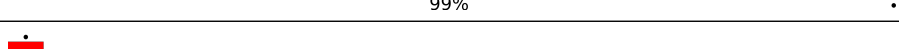
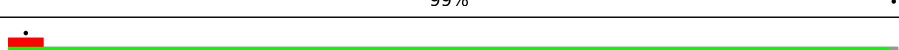
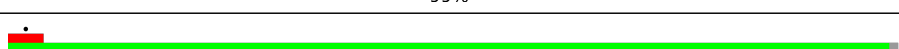
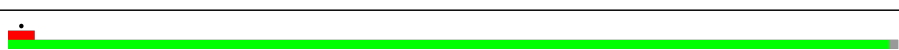
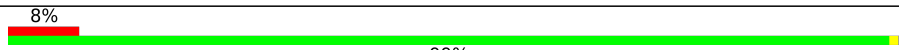
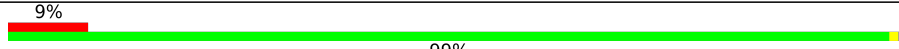
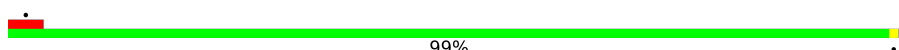
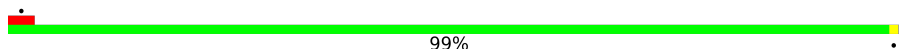
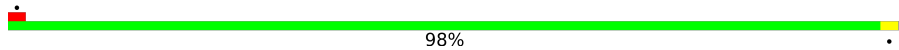
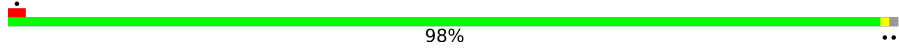
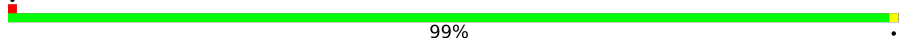
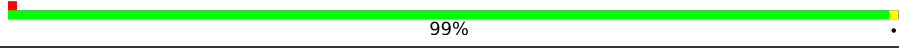
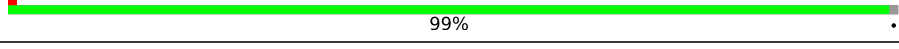
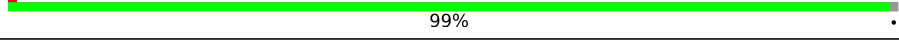
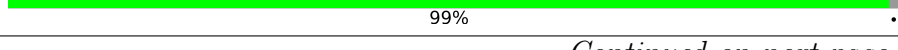

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Mol	Chain	Length	Quality of chain
1	BH	254	72% 81% 12% .. 6%
1	BI	254	80% 81% 11% . 6%
1	BJ	254	74% 81% 12% .. 6%
2	B4	914	93% . .
2	BB	914	93% . .
2	C4	914	93% . 5%
2	CB	914	93% . 5%
3	4G	161	98% ..
3	4L	161	98% ..
3	6G	161	98% ...
3	6L	161	98% ...
3	9F	161	99% .
3	9K	161	99% .
3	AG	161	99% .
3	AL	161	99% .
3	GG	161	98% ..
3	GL	161	98% ..
3	IG	161	90% 9%
3	IL	161	88% 11% ..
3	JF	161	99% ..
3	JK	161	98% ..
3	KG	161	99% .
3	KL	161	99% .
3	LF	161	99% .
3	LK	161	99% .

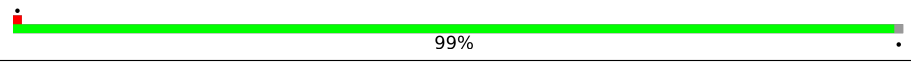
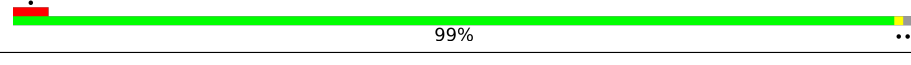
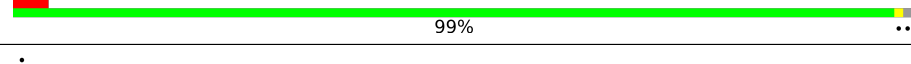
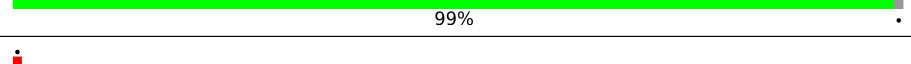
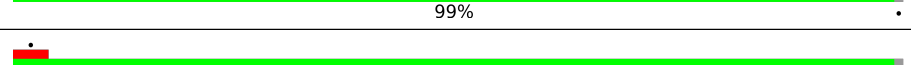
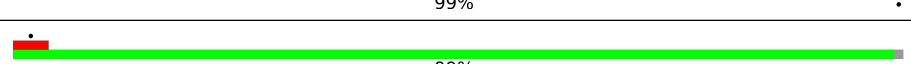
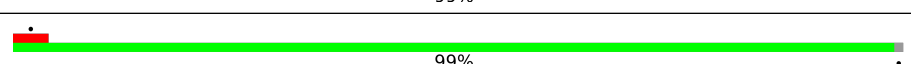
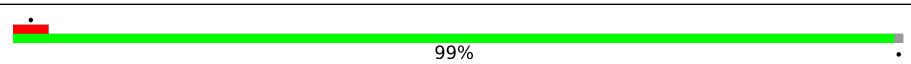
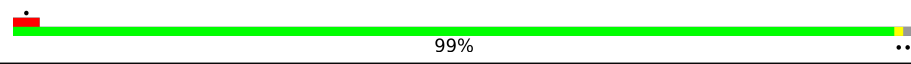
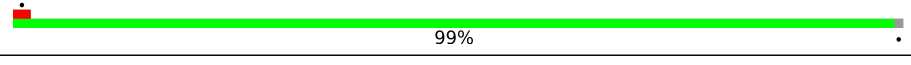
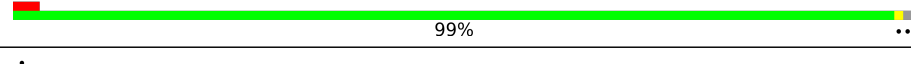
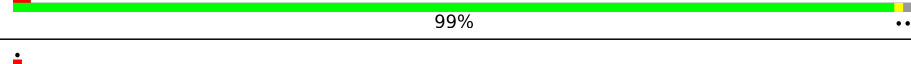
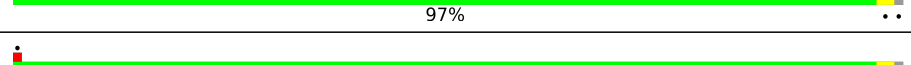
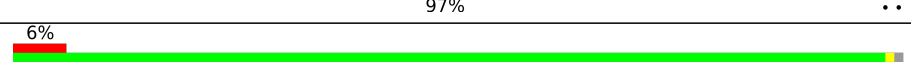
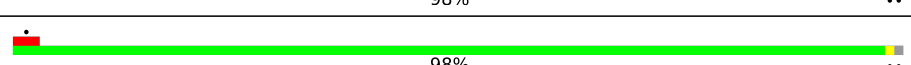
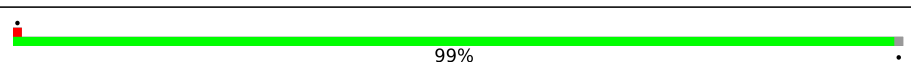
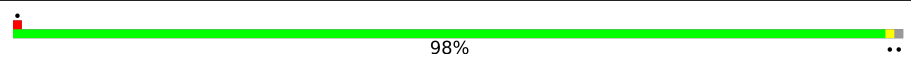
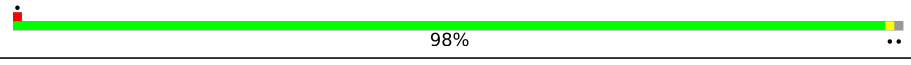
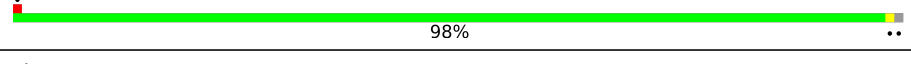
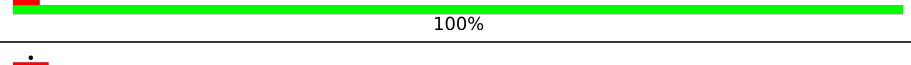
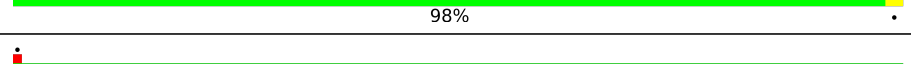
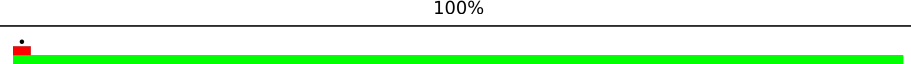
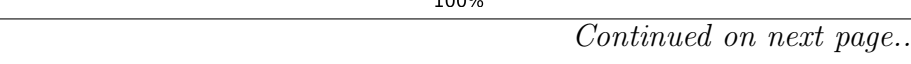


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Mol	Chain	Length	Quality of chain
3	NG	161	 99%
3	NL	161	 99%
3	O4	161	 97%
3	OB	161	 97%
3	PG	161	 99%
3	PL	161	 99%
3	Q4	161	 99%
3	QB	161	 99%
3	RG	161	 99%
3	RL	161	 99%
3	S4	161	 99%
3	SB	161	 99%
3	TG	161	 99%
3	TL	161	 99%
3	V4	161	 99%
3	VB	161	 99%
3	X4	161	 99%
3	XB	161	 99%
3	XF	161	 98%
3	XK	161	 98%
3	Z4	161	 99%
3	ZB	161	 99%
3	ZF	161	 99%
3	ZK	161	 99%
3	bF	161	 99%

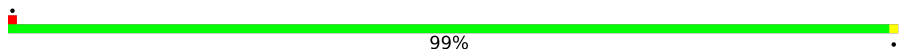
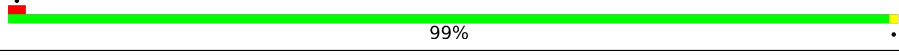
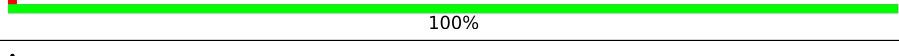
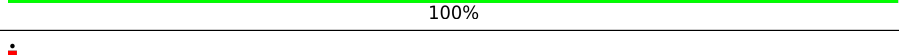
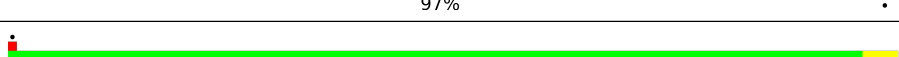
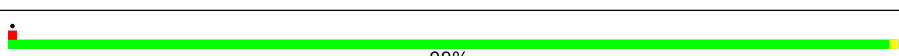
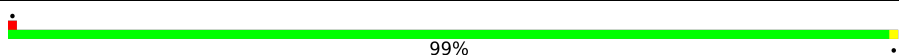
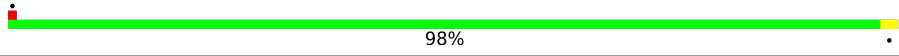
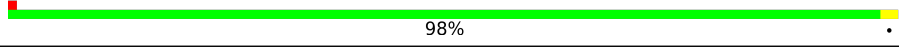
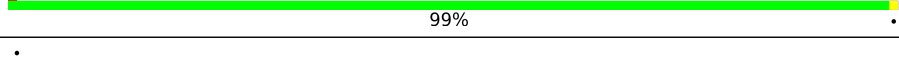
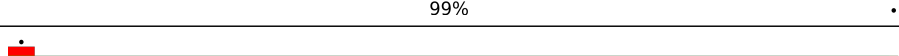
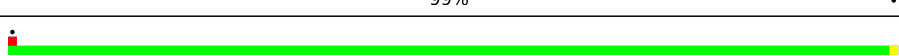
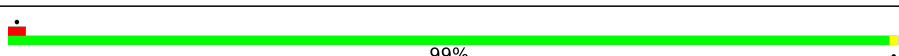
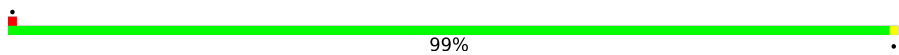
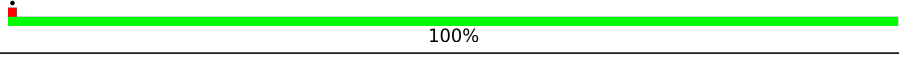
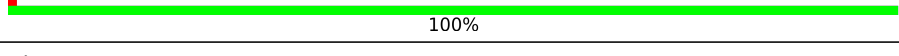
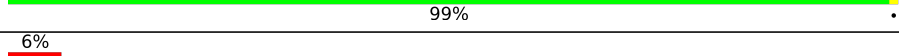
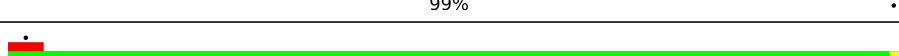
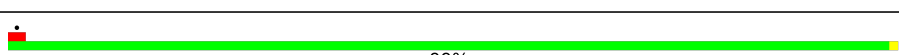
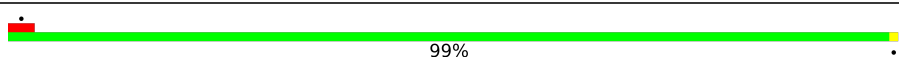
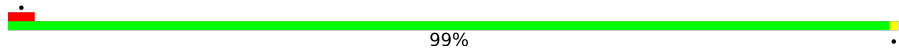
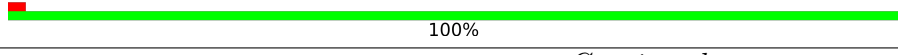



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Mol	Chain	Length	Quality of chain
3	bK	161	 99%
3	dF	161	 99%
3	dK	161	 99%
3	fF	161	 99%
3	fK	161	 99%
3	iF	161	 99%
3	iK	161	 99%
3	kF	161	 99%
3	kK	161	 99%
3	o4	161	 99%
3	oB	161	 99%
3	q4	161	 99%
3	qB	161	 99%
3	s4	161	 97%
3	sB	161	 97%
3	u4	161	 98%
3	uB	161	 98%
3	w4	161	 99%
3	wB	161	 98%
3	y4	161	 98%
3	yB	161	 98%
4	1G	161	 100%
4	1L	161	 98%
4	5G	161	 100%
4	5L	161	 100%

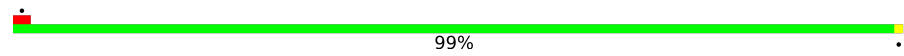
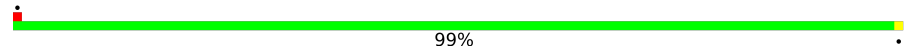
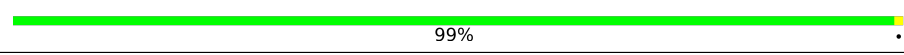
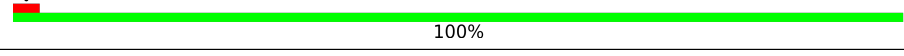
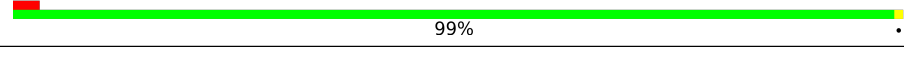
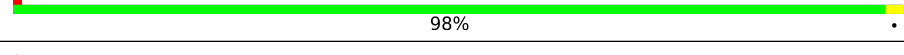
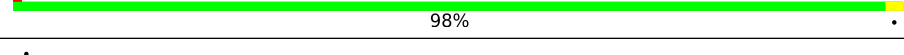
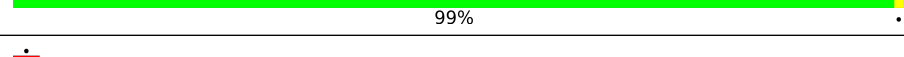
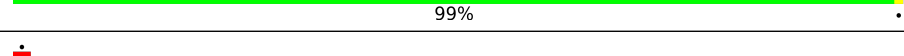
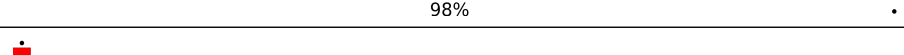
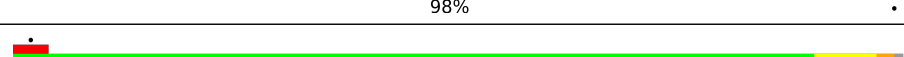
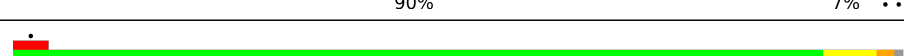
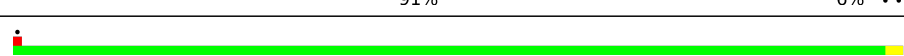
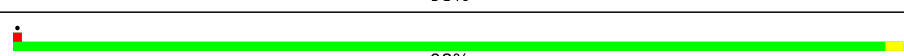
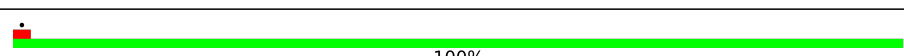
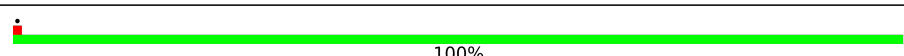
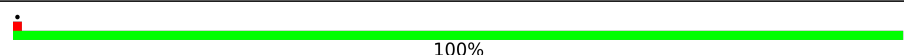
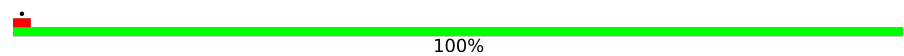
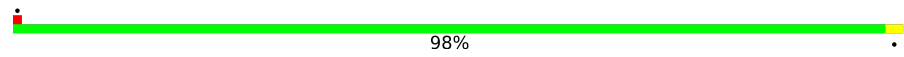
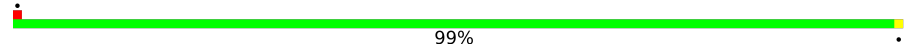
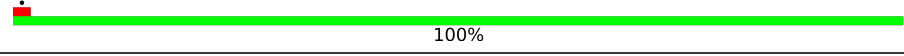
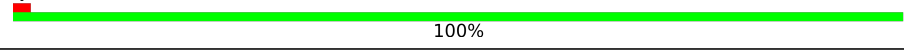
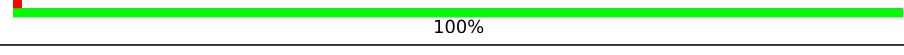
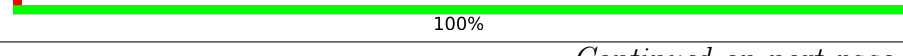

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Mol	Chain	Length	Quality of chain
4	7G	161	 99%
4	7L	161	 99%
4	HG	161	 100%
4	HL	161	 100%
4	IF	161	 97%
4	IK	161	 96%
4	JG	161	 99%
4	JL	161	 99%
4	KF	161	 98%
4	KK	161	 98%
4	LG	161	 99%
4	LL	161	 99%
4	MF	161	 99%
4	MG	161	 99%
4	MK	161	 99%
4	ML	161	 99%
4	OG	161	 100%
4	OL	161	 100%
4	P4	161	 99%
4	PB	161	 99%
4	R4	161	 99%
4	RB	161	 99%
4	SG	161	 99%
4	SL	161	 99%
4	T4	161	 100%

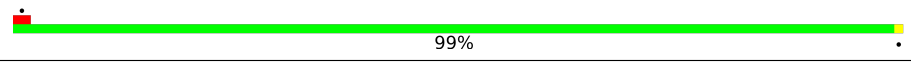
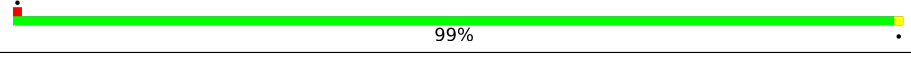
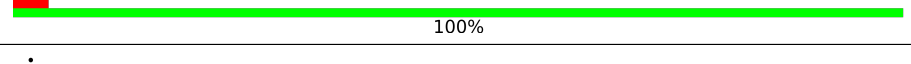
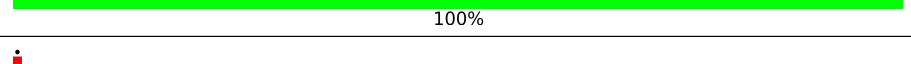
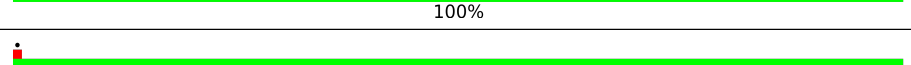
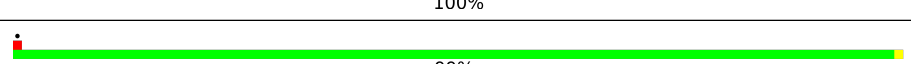
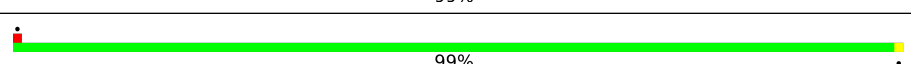
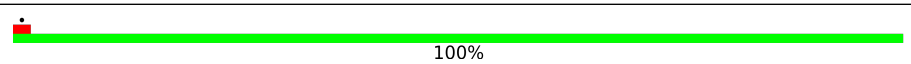
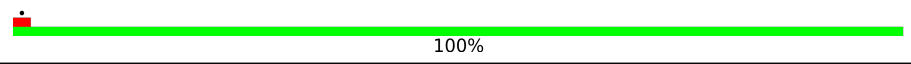
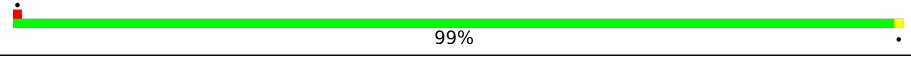
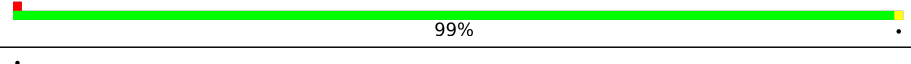
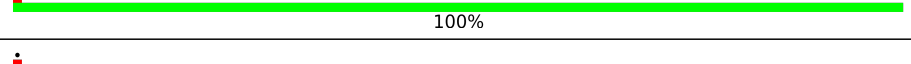
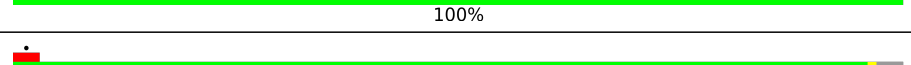
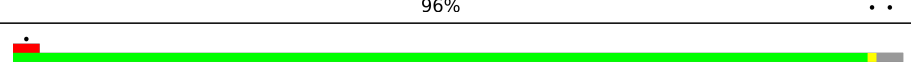
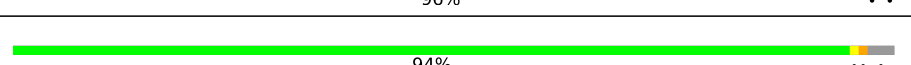
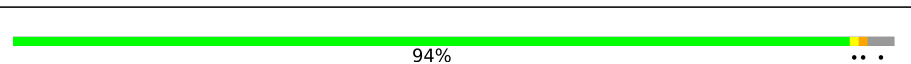
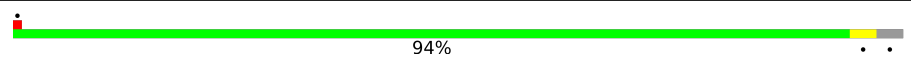
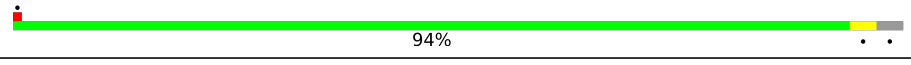
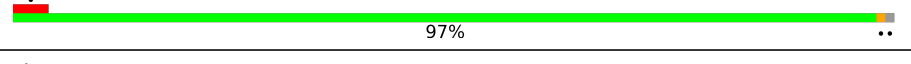
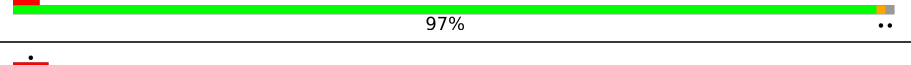
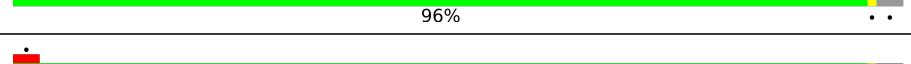
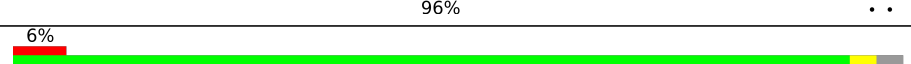
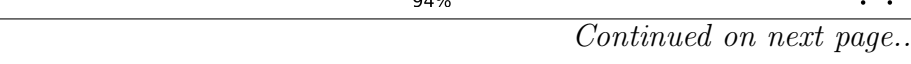


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Mol	Chain	Length	Quality of chain
4	TB	161	 99%
4	UG	161	 99%
4	UL	161	 99%
4	W4	161	 100%
4	WB	161	 99%
4	WG	161	 98%
4	WL	161	 98%
4	Y4	161	 99%
4	YB	161	 99%
4	YF	161	 98%
4	YK	161	 98%
4	a4	161	 90% 7%
4	aB	161	 91% 6%
4	aF	161	 98%
4	aK	161	 98%
4	cF	161	 100%
4	cK	161	 100%
4	eF	161	 100%
4	eK	161	 100%
4	hF	161	 98%
4	hK	161	 99%
4	jF	161	 100%
4	jK	161	 100%
4	lF	161	 100%
4	lK	161	 100%

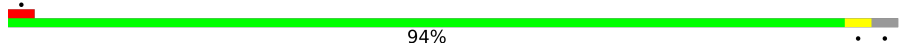
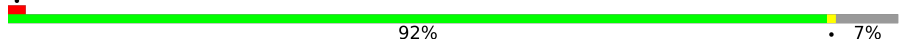
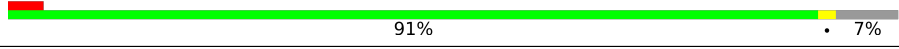
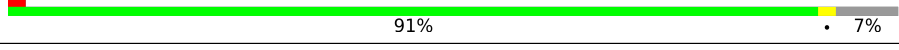
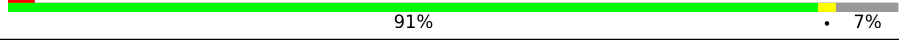
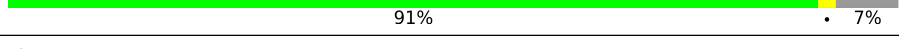
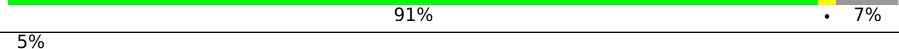
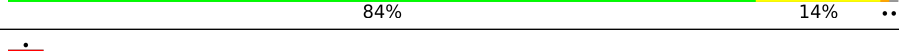
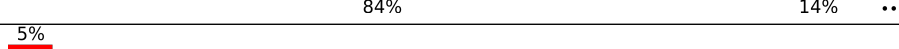
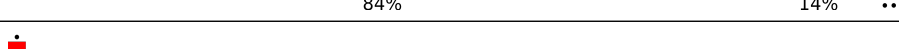
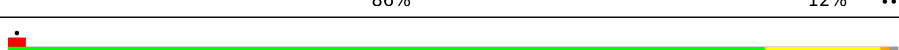

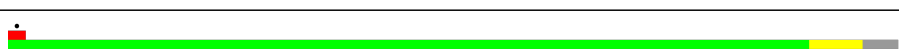
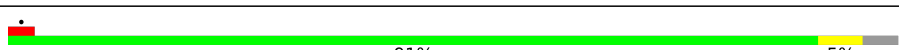
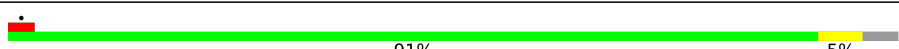

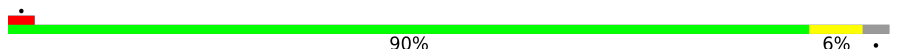
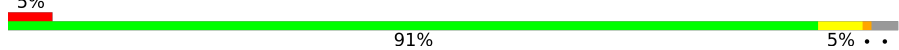


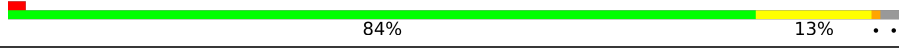
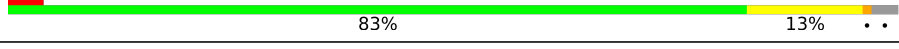



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Mol	Chain	Length	Quality of chain
4	nF	161	 99%
4	nK	161	 99%
4	p4	161	 100%
4	pB	161	 100%
4	r4	161	 100%
4	rB	161	 100%
4	t4	161	 99%
4	tB	161	 99%
4	v4	161	 100%
4	vB	161	 100%
4	x4	161	 99%
4	xB	161	 99%
4	z4	161	 100%
4	zB	161	 100%
5	2G	67	 96%
5	2L	67	 96%
5	3F	67	 94%
5	3K	67	 94%
5	8G	67	 94%
5	8L	67	 94%
5	NF	67	 97%
5	NK	67	 97%
5	U4	67	 96%
5	UB	67	 96%
5	b4	67	 94%

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Mol	Chain	Length	Quality of chain
5	bB	67	 94%
6	A1	359	 92% 7%
6	AD	359	 91% 7%
6	AE	359	 91% 7%
6	a1	359	 91% 7%
6	aD	359	 91% 7%
6	aE	359	 91% 7%
7	B1	509	 84% 14% 5%
7	BD	509	 84% 14%
7	BE	509	 84% 14% 5%
7	b1	509	 86% 12%
7	bD	509	 85% 13%
7	bE	509	 85% 13%
8	C1	469	 90% 6%
8	CD	469	 91% 5%
8	CE	469	 91% 5%
8	c1	469	 90% 6%
8	cD	469	 90% 6%
8	cE	469	 91% 5% 5%
9	D1	352	 84% 13%
9	DD	352	 84% 13%
9	DE	352	 84% 13%
9	d1	352	 83% 13%
9	dD	352	 83% 13%
9	dE	352	 83% 13%

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Mol	Chain	Length	Quality of chain
10	E1	82	89% 6% 5%
10	ED	82	89% 6% 5%
10	EE	82	89% 6% 5%
10	e1	82	90% 5% 5%
10	eD	82	90% 5% 5%
10	eE	82	90% 5% 5%
11	F1	44	64% 16% 20%
11	FD	44	66% 14% 20%
11	FE	44	68% 11% 20%
11	f1	44	64% 16% 20%
11	fD	44	64% 20% 16%
11	fE	44	61% 18% 20%
12	H1	67	90% 6% .
12	HD	67	90% 6% .
12	HE	67	88% 7% .
12	h1	67	90% 6% .
12	hD	67	90% 6% .
12	hE	67	90% 6% .
13	I1	38	58% 26% 8% . 5%
13	ID	38	55% 26% 11% . 5%
13	IE	38	55% 26% 11% . 5%
13	i1	38	63% 26% 5% 5%
13	iD	38	63% 26% 5% 5%
13	iE	38	63% 26% 5% 5%
14	J1	39	85% 10% 5%

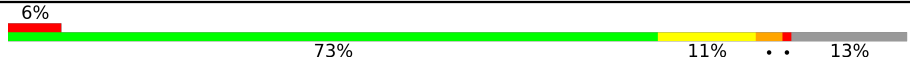

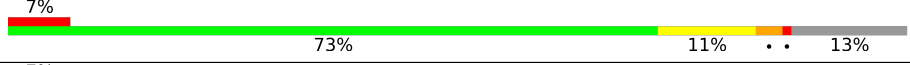


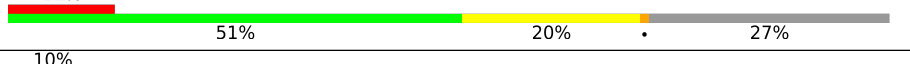
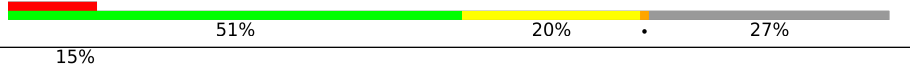
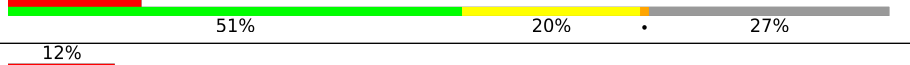
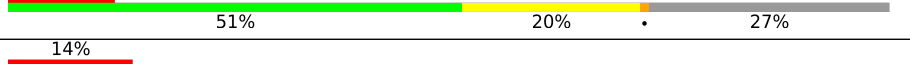


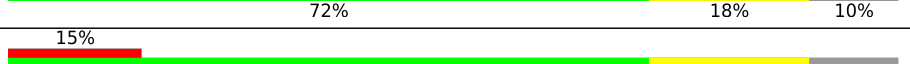
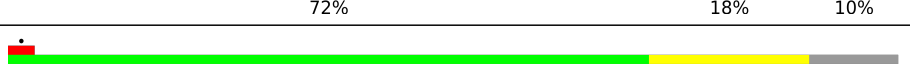
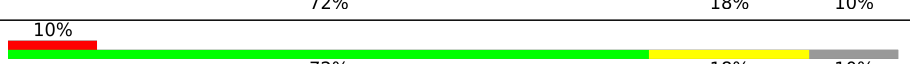

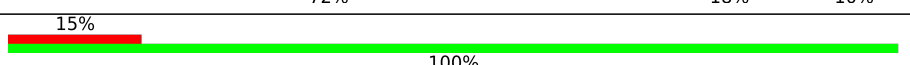
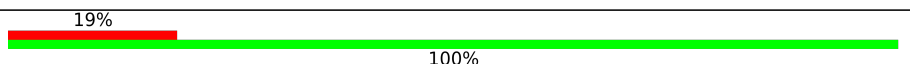
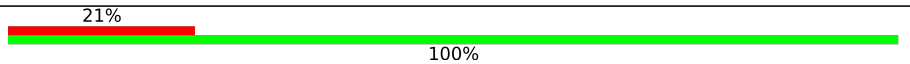
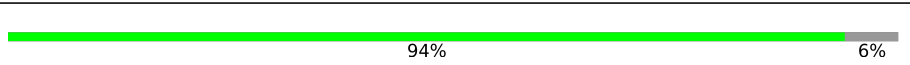
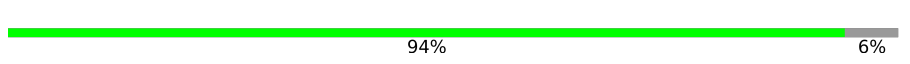
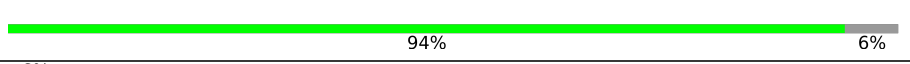
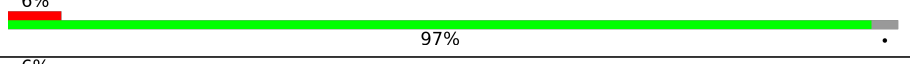
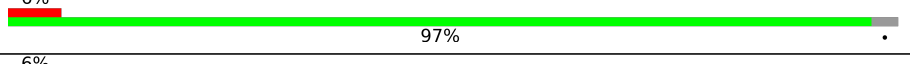
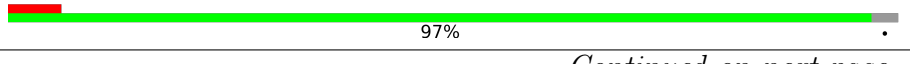

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Mol	Chain	Length	Quality of chain
14	JD	39	10% 85% 10% 5%
14	JE	39	13% 85% 10% 5%
14	j1	39	21% 97% .
14	jD	39	18% 97% .
14	jE	39	23% 97% .
15	K1	45	7% 71% 9% 20%
15	KD	45	7% 71% 9% 20%
15	KE	45	. 71% 9% 20%
15	k1	45	56% 22% 22%
15	kD	45	. 56% 22% 22%
15	kE	45	. 56% 22% 22%
16	L1	39	82% 10% 5% .
16	LD	39	. 82% 10% 5% .
16	LE	39	5% 82% 10% 5% .
16	l1	39	82% 10% 5% .
16	lD	39	82% 10% 5% .
16	lE	39	82% 10% 5% .
17	M1	37	14% 65% 32% .
17	MD	37	16% 65% 32% .
17	ME	37	16% 65% 32% .
17	m1	37	14% 54% 43% .
17	mD	37	16% 54% 43% .
17	mE	37	14% 54% 43% .
18	O1	278	8% 73% 11% . . 13%
18	OD	278	6% 73% 11% . . 13%

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Mol	Chain	Length	Quality of chain
18	OE	278	
18	o1	278	
18	oD	278	
18	oE	278	
19	Q1	164	
19	QD	164	
19	QE	164	
19	q1	164	
19	qD	164	
19	qE	164	
20	R1	39	
20	RD	39	
20	RE	39	
20	r1	39	
20	rD	39	
20	rE	39	
21	S1	47	
21	SD	47	
21	SE	47	
22	T1	31	
22	TD	31	
22	TE	31	
22	t1	31	
22	tD	31	
22	tE	31	

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Mol	Chain	Length	Quality of chain
23	U1	95	89% 7%
23	UD	95	89% 7%
23	UE	95	89% 7%
23	u1	95	89% 8%
23	uD	95	89% 8%
23	uE	95	89% 8%
24	V1	163	72% 11% 17%
24	VD	163	72% 11% 17%
24	VE	163	72% 10% 17%
24	v1	163	74% 9% 17%
24	vD	163	74% 9% 17%
24	vE	163	74% 9% 17%
25	X1	48	10% 69% 15% 17%
25	XD	48	69% 15% 17%
25	XE	48	15% 69% 15% 17%
25	x1	48	8% 69% 15% 17%
25	xD	48	69% 15% 17%
25	xE	48	69% 15% 17%
26	Y1	43	12% 51% 21% 26%
26	YD	43	9% 51% 21% 26%
26	YE	43	7% 51% 21% 26%
26	y1	43	14% 49% 21% 5% 26%
26	yD	43	14% 49% 21% 5% 26%
26	yE	43	14% 49% 21% 5% 26%
27	Z1	63	10% 73% 22% 5%

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Mol	Chain	Length	Quality of chain
27	ZD	63	16% 73% 22% 5%
27	ZE	63	10% 73% 22% 5%
27	z1	63	14% 76% 19% 5%
27	zD	63	17% 76% 19% 5%
27	zE	63	16% 76% 19% 5%
28	BG	150	5% 10% 17% 69%
28	BL	150	6% 10% 17% 69%
28	EF	150	16% 13% 69%
28	EK	150	16% 13% 69%
29	QG	169	94%
29	QL	169	94%
29	gF	169	93% 7%
29	gK	169	93% 7%
30	VG	161	96% ...
30	VL	161	96% ...
30	mF	161	97% ...
30	mK	161	97% ...
31	b2	162	67% 93% 7%
31	b3	162	98% 93% 7%
31	b5	162	64% 93% 7%
31	b6	162	88% 93% 7%
31	b7	162	93% 7%
31	b8	162	77% 93% 7%
31	b9	162	77% 93% 7%
31	bA	162	99% 93% 7%

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Mol	Chain	Length	Quality of chain
31	bC	162	91% 93% 7%
31	bH	162	62% 93% 7%
31	bI	162	82% 93% 7%
31	bJ	162	73% 93% 7%
31	d2	162	100% 93% 7%
31	d3	162	99% 93% 7%
31	d5	162	84% 93% 7%
31	d6	162	99% 93% 7%
31	d7	162	99% 93% 7%
31	d8	162	65% 93% 7%
31	d9	162	99% 93% 7%
31	dA	162	99% 93% 7%
31	dC	162	99% 93% 7%
31	dH	162	81% 93% 7%
31	dI	162	100% 93% 7%
31	dJ	162	60% 93% 7%
31	f2	162	95% 93% 7%
31	f3	162	92% 93% 7%
31	f5	162	94% 93% 7%
31	f6	162	98% 93% 7%
31	f7	162	100% 93% 7%
31	f8	162	88% 93% 7%
31	f9	162	95% 93% 7%
31	fA	162	96% 93% 7%
31	fC	162	96% 93% 7%

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Mol	Chain	Length	Quality of chain
31	fH	162	85% 93% 7%
31	fI	162	91% 93% 7%
31	fJ	162	86% 93% 7%
31	h2	162	87% 93% 7%
31	h3	162	100% 93% 7%
31	h5	162	78% 93% 7%
31	h6	162	91% 93% 7%
31	h7	162	100% 93% 7%
31	h8	162	85% 93% 7%
31	h9	162	93% 93% 7%
31	hA	162	100% 93% 7%
31	hC	162	99% 93% 7%
31	hH	162	74% 93% 7%
31	hI	162	98% 93% 7%
31	hJ	162	73% 93% 7%
31	j2	162	86% 93% 7%
31	j3	162	96% 93% 7%
31	j5	162	88% 93% 7%
31	j6	162	93% 93% 7%
31	j7	162	96% 93% 7%
31	j8	162	81% 93% 7%
31	j9	162	84% 93% 7%
31	jA	162	94% 93% 7%
31	jC	162	94% 93% 7%
31	jH	162	75% 93% 7%

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Mol	Chain	Length	Quality of chain
31	jI	162	83% 93% 7%
31	jJ	162	85% 93% 7%
31	l2	162	99% 93% 7%
31	l3	162	93% 93% 7%
31	l5	162	93% 93% 7%
31	l6	162	100% 93% 7%
31	l7	162	99% 93% 7%
31	l8	162	86% 93% 7%
31	l9	162	100% 93% 7%
31	lA	162	96% 93% 7%
31	lC	162	98% 93% 7%
31	lH	162	90% 93% 7%
31	lI	162	99% 93% 7%
31	lJ	162	80% 93% 7%
32	c2	172	94% 91% 9%
32	c3	172	99% 91% 9%
32	c5	172	81% 91% 9%
32	c6	172	95% 91% 9%
32	c7	172	99% 91% 9%
32	c8	172	85% 91% 9%
32	c9	172	94% 91% 9%
32	cA	172	92% 91% 9%
32	cC	172	99% 91% 9%
32	cH	172	77% 91% 9%
32	cI	172	95% 91% 9%

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Mol	Chain	Length	Quality of chain
32	cJ	172	80% 91% 9%
32	e2	172	99% 93% 6%
32	e3	172	98% 93% 6%
32	e5	172	97% 93% 6%
32	e6	172	100% 93% 6%
32	e7	172	99% 93% 6%
32	e8	172	94% 93% 6%
32	e9	172	99% 93% 6%
32	eA	172	99% 93% 6%
32	eC	172	100% 93% 6%
32	eH	172	96% 93% 6%
32	eI	172	100% 93% 6%
32	eJ	172	95% 93% 6%
32	g2	172	90% 94% 6%
32	g3	172	97% 94% 6%
32	g5	172	80% 94% 6%
32	g6	172	95% 94% 6%
32	g7	172	95% 94% 6%
32	g8	172	74% 94% 6%
32	g9	172	90% 94% 6%
32	gA	172	95% 94% 6%
32	gC	172	89% 94% 6%
32	gH	172	70% 94% 6%
32	gI	172	95% 94% 6%
32	gJ	172	75% 94% 6%

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Mol	Chain	Length	Quality of chain
32	i2	172	87% 93% 6% .
32	i3	172	99% 93% 6% .
32	i5	172	88% 93% 6% .
32	i6	172	95% 93% 6% .
32	i7	172	99% 93% 6% .
32	i8	172	92% 93% 6% .
32	i9	172	88% 93% 6% .
32	iA	172	100% 93% 6% .
32	iC	172	94% 93% 6% .
32	iH	172	89% 93% 6% .
32	iI	172	88% 93% 6% .
32	iJ	172	92% 93% 6% .
32	k2	172	97% 92% 7% .
32	k3	172	98% 92% 7% .
32	k5	172	98% 92% 7% .
32	k6	172	99% 92% 7% .
32	k7	172	100% 92% 7% .
32	k8	172	98% 92% 7% .
32	k9	172	92% 92% 7% .
32	kA	172	98% 92% 7% .
32	kC	172	99% 92% 7% .
32	kH	172	88% 92% 7% .
32	kI	172	96% 92% 7% .
32	kJ	172	94% 92% 7% .
32	m2	172	97% 94% 6% .

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Mol	Chain	Length	Quality of chain
32	m3	172	93% 94% 6% •
32	m5	172	81% 94% 6% •
32	m6	172	100% 94% 6% •
32	m7	172	99% 94% 6% •
32	m8	172	81% 94% 6% •
32	m9	172	98% 94% 6% •
32	mA	172	97% 94% 6% •
32	mC	172	98% 94% 6% •
32	mH	172	81% 94% 6% •
32	mI	172	99% 94% 6% •
32	mJ	172	70% 94% 6% •

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
36	CLA	A1	404	X	-	-	-
36	CLA	A1	405	X	-	-	-
36	CLA	AD	404	X	-	-	-
36	CLA	AD	405	X	-	-	-
36	CLA	AE	404	X	-	-	-
36	CLA	AE	405	X	-	-	-
36	CLA	B1	601	X	-	-	-
36	CLA	B1	602	X	-	-	-
36	CLA	B1	603	X	-	-	-
36	CLA	B1	604	X	-	-	-
36	CLA	B1	606	X	-	-	-
36	CLA	B1	607	X	-	-	-
36	CLA	B1	608	X	-	-	-
36	CLA	B1	609	X	-	-	-
36	CLA	B1	610	X	-	-	-
36	CLA	B1	611	X	-	-	-
36	CLA	B1	612	X	-	-	-
36	CLA	B1	613	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
36	CLA	BD	601	X	-	-	-
36	CLA	BD	602	X	-	-	-
36	CLA	BD	603	X	-	-	-
36	CLA	BD	604	X	-	-	-
36	CLA	BD	606	X	-	-	-
36	CLA	BD	607	X	-	-	-
36	CLA	BD	608	X	-	-	-
36	CLA	BD	609	X	-	-	-
36	CLA	BD	610	X	-	-	-
36	CLA	BD	611	X	-	-	-
36	CLA	BD	612	X	-	-	-
36	CLA	BD	613	X	-	-	-
36	CLA	BE	601	X	-	-	-
36	CLA	BE	602	X	-	-	-
36	CLA	BE	603	X	-	-	-
36	CLA	BE	604	X	-	-	-
36	CLA	BE	606	X	-	-	-
36	CLA	BE	607	X	-	-	-
36	CLA	BE	608	X	-	-	-
36	CLA	BE	609	X	-	-	-
36	CLA	BE	610	X	-	-	-
36	CLA	BE	611	X	-	-	-
36	CLA	BE	612	X	-	-	-
36	CLA	BE	613	X	-	-	-
36	CLA	C1	503	X	-	-	-
36	CLA	C1	504	X	-	-	-
36	CLA	C1	505	X	-	-	-
36	CLA	C1	506	X	-	-	-
36	CLA	C1	507	X	-	-	-
36	CLA	C1	508	X	-	-	-
36	CLA	C1	509	X	-	-	-
36	CLA	C1	511	X	-	-	-
36	CLA	C1	512	X	-	-	-
36	CLA	C1	513	X	-	-	-
36	CLA	C1	514	X	-	-	-
36	CLA	C1	515	X	-	-	-
36	CLA	CD	503	X	-	-	-
36	CLA	CD	504	X	-	-	-
36	CLA	CD	505	X	-	-	-
36	CLA	CD	506	X	-	-	-
36	CLA	CD	507	X	-	-	-
36	CLA	CD	508	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
36	CLA	CD	509	X	-	-	-
36	CLA	CD	511	X	-	-	-
36	CLA	CD	512	X	-	-	-
36	CLA	CD	513	X	-	-	-
36	CLA	CD	514	X	-	-	-
36	CLA	CD	515	X	-	-	-
36	CLA	CE	503	X	-	-	-
36	CLA	CE	504	X	-	-	-
36	CLA	CE	505	X	-	-	-
36	CLA	CE	506	X	-	-	-
36	CLA	CE	507	X	-	-	-
36	CLA	CE	508	X	-	-	-
36	CLA	CE	509	X	-	-	-
36	CLA	CE	511	X	-	-	-
36	CLA	CE	512	X	-	-	-
36	CLA	CE	513	X	-	-	-
36	CLA	CE	514	X	-	-	-
36	CLA	CE	515	X	-	-	-
36	CLA	D1	404	X	-	-	-
36	CLA	D1	405	X	-	-	-
36	CLA	DD	405	X	-	-	-
36	CLA	DD	406	X	-	-	-
36	CLA	DE	405	X	-	-	-
36	CLA	DE	406	X	-	-	-
36	CLA	H1	101	X	-	-	-
36	CLA	H1	102	X	-	-	-
36	CLA	HD	101	X	-	-	-
36	CLA	HD	102	X	-	-	-
36	CLA	HE	101	X	-	-	-
36	CLA	HE	102	X	-	-	-
36	CLA	I1	101	X	-	-	-
36	CLA	ID	101	X	-	-	-
36	CLA	IE	101	X	-	-	-
36	CLA	X1	101	X	-	-	-
36	CLA	XD	101	X	-	-	-
36	CLA	XE	101	X	-	-	-
36	CLA	a1	405	X	-	-	-
36	CLA	a1	406	X	-	-	-
36	CLA	a1	407	X	-	-	-
36	CLA	aD	404	X	-	-	-
36	CLA	aD	405	X	-	-	-
36	CLA	aD	406	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
36	CLA	aE	404	X	-	-	-
36	CLA	aE	405	X	-	-	-
36	CLA	aE	406	X	-	-	-
36	CLA	b1	603	X	-	-	-
36	CLA	b1	604	X	-	-	-
36	CLA	b1	605	X	-	-	-
36	CLA	b1	606	X	-	-	-
36	CLA	b1	608	X	-	-	-
36	CLA	b1	609	X	-	-	-
36	CLA	b1	610	X	-	-	-
36	CLA	b1	611	X	-	-	-
36	CLA	b1	612	X	-	-	-
36	CLA	b1	613	X	-	-	-
36	CLA	b1	614	X	-	-	-
36	CLA	bD	603	X	-	-	-
36	CLA	bD	604	X	-	-	-
36	CLA	bD	605	X	-	-	-
36	CLA	bD	606	X	-	-	-
36	CLA	bD	608	X	-	-	-
36	CLA	bD	609	X	-	-	-
36	CLA	bD	610	X	-	-	-
36	CLA	bD	611	X	-	-	-
36	CLA	bD	612	X	-	-	-
36	CLA	bD	613	X	-	-	-
36	CLA	bD	614	X	-	-	-
36	CLA	bE	603	X	-	-	-
36	CLA	bE	604	X	-	-	-
36	CLA	bE	605	X	-	-	-
36	CLA	bE	606	X	-	-	-
36	CLA	bE	608	X	-	-	-
36	CLA	bE	609	X	-	-	-
36	CLA	bE	610	X	-	-	-
36	CLA	bE	611	X	-	-	-
36	CLA	bE	612	X	-	-	-
36	CLA	bE	613	X	-	-	-
36	CLA	bE	614	X	-	-	-
36	CLA	c1	502	X	-	-	-
36	CLA	c1	503	X	-	-	-
36	CLA	c1	504	X	-	-	-
36	CLA	c1	505	X	-	-	-
36	CLA	c1	506	X	-	-	-
36	CLA	c1	507	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
36	CLA	c1	508	X	-	-	-
36	CLA	c1	510	X	-	-	-
36	CLA	c1	511	X	-	-	-
36	CLA	c1	512	X	-	-	-
36	CLA	c1	513	X	-	-	-
36	CLA	cD	503	X	-	-	-
36	CLA	cD	504	X	-	-	-
36	CLA	cD	505	X	-	-	-
36	CLA	cD	506	X	-	-	-
36	CLA	cD	507	X	-	-	-
36	CLA	cD	508	X	-	-	-
36	CLA	cD	510	X	-	-	-
36	CLA	cD	511	X	-	-	-
36	CLA	cD	512	X	-	-	-
36	CLA	cD	513	X	-	-	-
36	CLA	cE	503	X	-	-	-
36	CLA	cE	504	X	-	-	-
36	CLA	cE	505	X	-	-	-
36	CLA	cE	506	X	-	-	-
36	CLA	cE	507	X	-	-	-
36	CLA	cE	508	X	-	-	-
36	CLA	cE	510	X	-	-	-
36	CLA	cE	511	X	-	-	-
36	CLA	cE	512	X	-	-	-
36	CLA	cE	513	X	-	-	-
36	CLA	cE	514	X	-	-	-
36	CLA	d1	403	X	-	-	-
36	CLA	d1	405	X	-	-	-
36	CLA	d1	406	X	-	-	-
36	CLA	dD	403	X	-	-	-
36	CLA	dD	405	X	-	-	-
36	CLA	dD	406	X	-	-	-
36	CLA	dE	403	X	-	-	-
36	CLA	dE	405	X	-	-	-
36	CLA	dE	406	X	-	-	-
36	CLA	h1	101	X	-	-	-
36	CLA	h1	102	X	-	-	-
36	CLA	hD	101	X	-	-	-
36	CLA	hD	102	X	-	-	-
36	CLA	hE	101	X	-	-	-
36	CLA	hE	102	X	-	-	-
36	CLA	iD	101	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
36	CLA	iE	101	X	-	-	-
36	CLA	x1	101	X	-	-	-
36	CLA	xD	101	X	-	-	-
36	CLA	xE	101	X	-	-	-

2 Entry composition i

There are 48 unique types of molecules in this entry. The entry contains 552008 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called LRC1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	BA	240	1948	1237	343	362	6	0	0
1	BC	240	1942	1231	343	362	6	0	0
1	BH	240	1850	1166	328	350	6	0	0
1	BI	240	1925	1218	339	362	6	0	0
1	BJ	240	1856	1172	328	350	6	0	0
1	B2	240	1942	1233	342	361	6	0	0
1	B3	240	1936	1228	340	362	6	0	0
1	B5	240	1856	1172	328	350	6	0	0
1	B6	240	1945	1234	343	362	6	0	0
1	B7	240	1942	1234	340	362	6	0	0
1	B8	240	1850	1166	328	350	6	0	0
1	B9	240	1942	1234	340	362	6	0	0

- Molecule 2 is a protein called LCM.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	BB	888	7001	4444	1216	1324	17	0	0
2	CB	866	6844	4349	1188	1290	17	0	0
2	B4	888	7001	4444	1216	1324	17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	C4	866	6844	4349	1188	1290	17	0	0

- Molecule 3 is a protein called Allophycocyanin alpha chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	OB	160	1199	750	203	240	6	0	0
3	QB	160	1205	754	206	239	6	0	0
3	SB	160	1209	756	207	240	6	0	0
3	VB	160	1205	753	206	240	6	0	0
3	XB	160	1203	753	204	240	6	0	0
3	ZB	160	1209	756	207	240	6	0	0
3	JF	160	1203	753	204	240	6	0	0
3	LF	160	1209	756	207	240	6	0	0
3	XF	160	1209	756	207	240	6	0	0
3	ZF	160	1209	756	207	240	6	0	0
3	AG	160	1209	756	207	240	6	0	0
3	GG	160	1209	756	207	240	6	0	0
3	IG	160	1206	755	207	238	6	0	0
3	KG	160	1203	753	204	240	6	0	0
3	NG	160	1203	753	204	240	6	0	0
3	PG	160	1209	756	207	240	6	0	0
3	RG	160	1209	756	207	240	6	0	0
3	TG	160	1203	753	204	240	6	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	JK	160	1209	756	207	240	6	0	0
3	LK	160	1209	756	207	240	6	0	0
3	XK	160	1209	756	207	240	6	0	0
3	ZK	160	1209	756	207	240	6	0	0
3	AL	160	1209	756	207	240	6	0	0
3	GL	160	1209	756	207	240	6	0	0
3	IL	160	1203	753	204	240	6	0	0
3	KL	160	1203	753	204	240	6	0	0
3	NL	160	1203	753	204	240	6	0	0
3	PL	160	1209	756	207	240	6	0	0
3	RL	160	1209	756	207	240	6	0	0
3	TL	160	1203	753	204	240	6	0	0
3	Z4	160	1209	756	207	240	6	0	0
3	S4	160	1209	756	207	240	6	0	0
3	V4	160	1205	753	206	240	6	0	0
3	X4	160	1196	748	203	239	6	0	0
3	s4	160	1209	756	207	240	6	0	0
3	u4	160	1199	750	203	240	6	0	0
3	w4	160	1196	749	204	238	5	0	0
3	o4	160	1205	754	207	238	6	0	0
3	q4	160	1198	748	207	237	6	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	y4	160	1209	756	207	240	6	0	0
3	O4	160	1203	753	204	240	6	0	0
3	Q4	160	1209	756	207	240	6	0	0
3	sB	160	1209	756	207	240	6	0	0
3	uB	160	1199	750	203	240	6	0	0
3	wB	160	1209	756	207	240	6	0	0
3	oB	160	1199	751	204	238	6	0	0
3	qB	160	1198	748	207	237	6	0	0
3	yB	160	1209	756	207	240	6	0	0
3	bF	160	1209	756	207	240	6	0	0
3	dF	160	1205	753	206	240	6	0	0
3	fF	160	1209	756	207	240	6	0	0
3	iF	160	1209	756	207	240	6	0	0
3	kF	160	1209	756	207	240	6	0	0
3	9F	160	1209	756	207	240	6	0	0
3	4G	160	1205	753	206	240	6	0	0
3	6G	160	1209	756	207	240	6	0	0
3	bK	160	1209	756	207	240	6	0	0
3	dK	160	1205	753	206	240	6	0	0
3	fK	160	1209	756	207	240	6	0	0
3	iK	160	1209	756	207	240	6	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	kK	160	Total	C	N	O	S	0	0
			1209	756	207	240	6		
3	9K	160	Total	C	N	O	S	0	0
			1209	756	207	240	6		
3	4L	160	Total	C	N	O	S	0	0
			1205	753	206	240	6		
3	6L	160	Total	C	N	O	S	0	0
			1209	756	207	240	6		

- Molecule 4 is a protein called Allophycocyanin beta chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	PB	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	RB	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	TB	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	WB	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	YB	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	IF	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	KF	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	MF	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	YF	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	HG	161	Total	C	N	O	S	0	0
			1208	762	201	238	7		
4	JG	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	LG	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	MG	161	Total	C	N	O	S	0	0
			1210	763	204	236	7		
4	OG	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	SG	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	UG	161	1214	765	204	238	7	0	0
4	WG	161	1214	765	204	238	7	0	0
4	IK	161	1214	765	204	238	7	0	0
4	KK	161	1214	765	204	238	7	0	0
4	MK	161	1214	765	204	238	7	0	0
4	YK	161	1214	765	204	238	7	0	0
4	HL	161	1208	762	201	238	7	0	0
4	JL	161	1214	765	204	238	7	0	0
4	LL	161	1214	765	204	238	7	0	0
4	ML	161	1210	763	204	236	7	0	0
4	OL	161	1214	765	204	238	7	0	0
4	SL	161	1214	765	204	238	7	0	0
4	UL	161	1214	765	204	238	7	0	0
4	WL	161	1214	765	204	238	7	0	0
4	a4	160	1199	754	203	236	6	0	0
4	T4	161	1214	765	204	238	7	0	0
4	W4	161	1214	765	204	238	7	0	0
4	Y4	161	1214	765	204	238	7	0	0
4	t4	161	1214	765	204	238	7	0	0
4	v4	161	1214	765	204	238	7	0	0
4	p4	161	1208	762	201	238	7	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	r4	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	x4	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	z4	161	Total	C	N	O	S	0	0
			1208	762	201	238	7		
4	P4	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	R4	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	aB	160	Total	C	N	O	S	0	0
			1196	753	203	234	6		
4	tB	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	vB	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	pB	161	Total	C	N	O	S	0	0
			1208	762	201	238	7		
4	rB	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	xB	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	zB	161	Total	C	N	O	S	0	0
			1208	762	201	238	7		
4	aF	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	cF	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	eF	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	hF	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	jF	161	Total	C	N	O	S	0	0
			1211	763	204	238	6		
4	lF	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	nF	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	1G	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		
4	5G	161	Total	C	N	O	S	0	0
			1214	765	204	238	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	7G	161	Total 1214	C 765	N 204	O 238	S 7	0	0
4	aK	161	Total 1214	C 765	N 204	O 238	S 7	0	0
4	cK	161	Total 1214	C 765	N 204	O 238	S 7	0	0
4	eK	161	Total 1214	C 765	N 204	O 238	S 7	0	0
4	hK	161	Total 1208	C 762	N 201	O 238	S 7	0	0
4	jK	161	Total 1211	C 763	N 204	O 238	S 6	0	0
4	lK	161	Total 1214	C 765	N 204	O 238	S 7	0	0
4	nK	161	Total 1214	C 765	N 204	O 238	S 7	0	0
4	1L	161	Total 1214	C 765	N 204	O 238	S 7	0	0
4	5L	161	Total 1214	C 765	N 204	O 238	S 7	0	0
4	7L	161	Total 1214	C 765	N 204	O 238	S 7	0	0

- Molecule 5 is a protein called Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	UB	65	Total 527	C 333	N 98	O 93	S 3	0	0
5	NF	66	Total 535	C 338	N 99	O 94	S 4	0	0
5	NK	66	Total 535	C 338	N 99	O 94	S 4	0	0
5	b4	65	Total 527	C 333	N 98	O 93	S 3	0	0
5	U4	65	Total 527	C 333	N 98	O 93	S 3	0	0
5	bB	65	Total 527	C 333	N 98	O 93	S 3	0	0
5	3F	65	Total 527	C 333	N 98	O 93	S 3	0	0
5	2G	65	Total 527	C 333	N 98	O 93	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	8G	65	Total	C	N	O	S	0	0
			527	333	98	93	3		
5	3K	65	Total	C	N	O	S	0	0
			527	333	98	93	3		
5	2L	65	Total	C	N	O	S	0	0
			527	333	98	93	3		
5	8L	65	Total	C	N	O	S	0	0
			527	333	98	93	3		

- Molecule 6 is a protein called Photosystem II protein D1.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	AD	334	Total	C	N	O	S	0	0
			2606	1707	433	454	12		
6	AE	334	Total	C	N	O	S	0	0
			2606	1707	433	454	12		
6	A1	334	Total	C	N	O	S	0	0
			2613	1713	433	455	12		
6	a1	334	Total	C	N	O	S	0	0
			2611	1712	431	456	12		
6	aD	334	Total	C	N	O	S	0	0
			2617	1715	434	456	12		
6	aE	334	Total	C	N	O	S	0	0
			2617	1715	434	456	12		

- Molecule 7 is a protein called Photosystem II CP47 reaction center protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	BD	502	Total	C	N	O	S	0	0
			3929	2563	662	691	13		
7	BE	502	Total	C	N	O	S	0	0
			3923	2560	659	691	13		
7	B1	502	Total	C	N	O	S	0	0
			3925	2561	662	689	13		
7	b1	504	Total	C	N	O	S	0	0
			3945	2572	667	693	13		
7	bD	504	Total	C	N	O	S	0	0
			3945	2572	667	693	13		
7	bE	504	Total	C	N	O	S	0	0
			3945	2572	667	693	13		

- Molecule 8 is a protein called Photosystem II CP43 reaction center protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	CD	450	Total	C	N	O	S	0	0
			3485	2286	585	601	13		
8	CE	450	Total	C	N	O	S	0	0
			3485	2286	585	601	13		
8	C1	450	Total	C	N	O	S	0	0
			3485	2286	585	601	13		
8	c1	453	Total	C	N	O	S	0	0
			3484	2282	585	604	13		
8	cD	453	Total	C	N	O	S	0	0
			3480	2279	584	604	13		
8	cE	453	Total	C	N	O	S	0	0
			3482	2280	584	605	13		

- Molecule 9 is a protein called Photosystem II D2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	DD	341	Total	C	N	O	S	0	0
			2713	1799	444	457	13		
9	DE	341	Total	C	N	O	S	0	0
			2713	1799	444	457	13		
9	D1	341	Total	C	N	O	S	0	0
			2713	1799	444	457	13		
9	d1	341	Total	C	N	O	S	0	0
			2709	1797	443	456	13		
9	dD	341	Total	C	N	O	S	0	0
			2709	1797	443	456	13		
9	dE	341	Total	C	N	O	S	0	0
			2709	1797	443	456	13		

- Molecule 10 is a protein called Cytochrome b559 subunit alpha.

Mol	Chain	Residues	Atoms				AltConf	Trace
10	ED	78	Total	C	N	O	0	0
			634	412	105	117		
10	EE	78	Total	C	N	O	0	0
			634	412	105	117		
10	E1	78	Total	C	N	O	0	0
			634	412	105	117		
10	e1	78	Total	C	N	O	0	0
			634	412	105	117		
10	eD	78	Total	C	N	O	0	0
			634	412	105	117		
10	eE	78	Total	C	N	O	0	0
			634	412	105	117		

- Molecule 11 is a protein called Cytochrome b559 subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	FD	35	Total	C	N	O	S	0	0
			283	194	46	42	1		
11	FE	35	Total	C	N	O	S	0	0
			283	194	46	42	1		
11	F1	35	Total	C	N	O	S	0	0
			283	194	46	42	1		
11	f1	35	Total	C	N	O	S	0	0
			283	194	46	42	1		
11	fD	37	Total	C	N	O	S	0	0
			299	204	49	45	1		
11	fE	35	Total	C	N	O	S	0	0
			283	194	46	42	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
12	HD	64	Total	C	N	O	S	0	0
			504	335	82	85	2		
12	HE	64	Total	C	N	O	S	0	0
			504	335	82	85	2		
12	H1	64	Total	C	N	O	S	0	0
			512	340	83	87	2		
12	h1	64	Total	C	N	O	S	0	0
			512	340	83	87	2		
12	hD	64	Total	C	N	O	S	0	0
			512	340	83	87	2		
12	hE	64	Total	C	N	O	S	0	0
			512	340	83	87	2		

- Molecule 13 is a protein called Photosystem II reaction center protein I.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	ID	36	Total	C	N	O	S	0	0
			294	197	50	46	1		
13	IE	36	Total	C	N	O	S	0	0
			294	197	50	46	1		
13	I1	36	Total	C	N	O	S	0	0
			294	197	50	46	1		
13	i1	36	Total	C	N	O	S	0	0
			290	194	49	46	1		
13	iD	36	Total	C	N	O	S	0	0
			290	194	49	46	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	iE	36	Total	C	N	O	S	0	0
			290	194	49	46	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
14	JD	37	Total	C	N	O	0	0	
			262	179	39	44			
14	JE	37	Total	C	N	O	0	0	
			262	179	39	44			
14	J1	37	Total	C	N	O	0	0	
			262	179	39	44			
14	j1	39	Total	C	N	O	S	0	0
			276	187	41	47	1		
14	jD	39	Total	C	N	O	S	0	0
			276	187	41	47	1		
14	jE	39	Total	C	N	O	S	0	0
			276	187	41	47	1		

- Molecule 15 is a protein called Photosystem II reaction center protein K.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	KD	36	Total	C	N	O	0	0	
			286	203	39	44			
15	KE	36	Total	C	N	O	0	0	
			286	203	39	44			
15	K1	36	Total	C	N	O	0	0	
			286	203	39	44			
15	k1	35	Total	C	N	O	0	0	
			277	197	37	43			
15	kD	35	Total	C	N	O	0	0	
			277	197	37	43			
15	kE	35	Total	C	N	O	0	0	
			277	197	37	43			

- Molecule 16 is a protein called Photosystem II reaction center protein L.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	LD	38	Total	C	N	O	S	0	0
			315	209	52	53	1		
16	LE	38	Total	C	N	O	S	0	0
			315	209	52	53	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
16	L1	38	Total	C	N	O	S	0	0
			315	209	52	53	1		
16	l1	38	Total	C	N	O	S	0	0
			315	209	52	53	1		
16	lD	38	Total	C	N	O	S	0	0
			315	209	52	53	1		
16	lE	38	Total	C	N	O	S	0	0
			315	209	52	53	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
17	MD	36	Total	C	N	O	S	0	0
			286	190	43	52	1		
17	ME	36	Total	C	N	O	S	0	0
			286	190	43	52	1		
17	M1	36	Total	C	N	O	S	0	0
			286	190	43	52	1		
17	m1	36	Total	C	N	O	S	0	0
			286	190	43	52	1		
17	mD	36	Total	C	N	O	S	0	0
			286	190	43	52	1		
17	mE	36	Total	C	N	O	S	0	0
			286	190	43	52	1		

- Molecule 18 is a protein called Photosystem II extrinsic protein O.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	OD	243	Total	C	N	O	S	0	0
			1856	1174	308	372	2		
18	OE	243	Total	C	N	O	S	0	0
			1856	1174	308	372	2		
18	O1	243	Total	C	N	O	S	0	0
			1856	1174	308	372	2		
18	o1	243	Total	C	N	O	S	0	0
			1856	1174	308	372	2		
18	oD	243	Total	C	N	O	S	0	0
			1856	1174	308	372	2		
18	oE	243	Total	C	N	O	S	0	0
			1856	1174	308	372	2		

- Molecule 19 is a protein called PsbQ protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	QD	119	Total	C	N	O	S	0	0
			966	610	165	189	2		
19	QE	119	Total	C	N	O	S	0	0
			966	610	165	189	2		
19	Q1	119	Total	C	N	O	S	0	0
			966	610	165	189	2		
19	q1	119	Total	C	N	O	S	0	0
			966	610	165	189	2		
19	qD	119	Total	C	N	O	S	0	0
			966	610	165	189	2		
19	qE	119	Total	C	N	O	S	0	0
			966	610	165	189	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
20	RD	35	Total	C	N	O	S	0	0
			260	175	43	41	1		
20	RE	35	Total	C	N	O	S	0	0
			260	175	43	41	1		
20	R1	35	Total	C	N	O	S	0	0
			260	175	43	41	1		
20	r1	35	Total	C	N	O	S	0	0
			260	175	43	41	1		
20	rD	35	Total	C	N	O	S	0	0
			260	175	43	41	1		
20	rE	35	Total	C	N	O	S	0	0
			260	175	43	41	1		

- Molecule 21 is a protein called LPP1.

Mol	Chain	Residues	Atoms				AltConf	Trace
21	SD	47	Total	C	N	O	0	0
			235	141	47	47		
21	SE	47	Total	C	N	O	0	0
			235	141	47	47		
21	S1	47	Total	C	N	O	0	0
			235	141	47	47		

- Molecule 22 is a protein called Photosystem II reaction center protein T.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	TD	29	Total	C	N	O			
			225	154	35	36	0	0	
22	TE	29	Total	C	N	O			
			225	154	35	36	0	0	
22	T1	29	Total	C	N	O			
			225	154	35	36	0	0	
22	t1	30	Total	C	N	O	S		
			233	159	36	37	1	0	
22	tD	30	Total	C	N	O	S		
			233	159	36	37	1	0	
22	tE	30	Total	C	N	O	S		
			233	159	36	37	1	0	

- Molecule 23 is a protein called PsbU.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	UD	95	Total	C	N	O	S		
			755	484	121	148	2	0	
23	UE	95	Total	C	N	O	S		
			755	484	121	148	2	0	
23	U1	95	Total	C	N	O	S		
			755	484	121	148	2	0	
23	u1	95	Total	C	N	O	S		
			755	484	121	148	2	0	
23	uD	95	Total	C	N	O	S		
			755	484	121	148	2	0	
23	uE	95	Total	C	N	O	S		
			755	484	121	148	2	0	

- Molecule 24 is a protein called Photosystem II extrinsic protein V.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	VD	135	Total	C	N	O	S		
			1043	662	175	203	3	0	
24	VE	135	Total	C	N	O	S		
			1043	662	175	203	3	0	
24	V1	135	Total	C	N	O	S		
			1043	662	175	203	3	0	
24	v1	135	Total	C	N	O	S		
			1043	662	175	203	3	0	
24	vD	135	Total	C	N	O	S		
			1043	662	175	203	3	0	
24	vE	135	Total	C	N	O	S		
			1043	662	175	203	3	0	

- Molecule 25 is a protein called Photosystem II reaction center protein X.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	XD	40	Total	C	N	O	S	0	0
			313	210	50	51	2		
25	XE	40	Total	C	N	O	S	0	0
			313	210	50	51	2		
25	X1	40	Total	C	N	O	S	0	0
			313	210	50	51	2		
25	x1	40	Total	C	N	O	S	0	0
			313	210	50	51	2		
25	xD	40	Total	C	N	O	S	0	0
			313	210	50	51	2		
25	xE	40	Total	C	N	O	S	0	0
			313	210	50	51	2		

- Molecule 26 is a protein called Photosystem II reaction center protein Psb30.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	YD	32	Total	C	N	O	S	0	0
			239	162	37	39	1		
26	YE	32	Total	C	N	O	S	0	0
			239	162	37	39	1		
26	Y1	32	Total	C	N	O	S	0	0
			239	162	37	39	1		
26	y1	32	Total	C	N	O	S	0	0
			239	162	37	39	1		
26	yD	32	Total	C	N	O	S	0	0
			239	162	37	39	1		
26	yE	32	Total	C	N	O	S	0	0
			239	162	37	39	1		

- Molecule 27 is a protein called Photosystem II reaction center protein Z.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	ZD	60	Total	C	N	O	S	0	0
			461	319	68	73	1		
27	ZE	60	Total	C	N	O	S	0	0
			461	319	68	73	1		
27	Z1	60	Total	C	N	O	S	0	0
			461	319	68	73	1		
27	z1	60	Total	C	N	O	S	0	0
			461	319	68	73	1		
27	zD	60	Total	C	N	O	S	0	0
			461	319	68	73	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
27	zE	60	Total	C	N	O	S	0	0
			461	319	68	73	1		

- Molecule 28 is a protein called LPP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	EF	46	Total	C	N	O	S	0	0
			354	214	69	66	5		
28	BG	46	Total	C	N	O	S	0	0
			357	216	69	66	6		
28	EK	46	Total	C	N	O	S	0	0
			354	214	69	66	5		
28	BL	46	Total	C	N	O	S	0	0
			357	216	69	66	6		

- Molecule 29 is a protein called Allophycocyanin beta-18 subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	QG	169	Total	C	N	O	S	0	0
			1297	818	219	257	3		
29	QL	169	Total	C	N	O	S	0	0
			1297	818	219	257	3		
29	gF	169	Total	C	N	O	S	0	0
			1297	818	219	257	3		
29	gK	169	Total	C	N	O	S	0	0
			1297	818	219	257	3		

- Molecule 30 is a protein called Allophycocyanin-B alpha subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	VG	160	Total	C	N	O	S	0	0
			1254	795	212	241	6		
30	VL	160	Total	C	N	O	S	0	0
			1254	795	212	241	6		
30	mF	160	Total	C	N	O	S	0	0
			1254	795	212	241	6		
30	mK	160	Total	C	N	O	S	0	0
			1254	795	212	241	6		

- Molecule 31 is a protein called C-phycoyanin alpha subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	b2	162	Total	C	N	O	S	0	0
			1052	645	186	218	3		
31	d2	162	Total	C	N	O	S	0	0
			1013	619	181	212	1		
31	f2	162	Total	C	N	O	S	0	0
			1030	634	179	215	2		
31	h2	162	Total	C	N	O	S	0	0
			1042	637	189	214	2		
31	j2	162	Total	C	N	O	S	0	0
			1029	633	182	212	2		
31	l2	162	Total	C	N	O	S	0	0
			1059	650	186	222	1		
31	b3	162	Total	C	N	O	S	0	0
			1052	645	186	218	3		
31	d3	162	Total	C	N	O	S	0	0
			1013	619	181	212	1		
31	f3	162	Total	C	N	O	S	0	0
			1030	634	179	215	2		
31	h3	162	Total	C	N	O	S	0	0
			1042	637	189	214	2		
31	j3	162	Total	C	N	O	S	0	0
			1029	633	182	212	2		
31	l3	162	Total	C	N	O	S	0	0
			1059	650	186	222	1		
31	b5	162	Total	C	N	O	S	0	0
			1052	645	186	218	3		
31	d5	162	Total	C	N	O	S	0	0
			1013	619	181	212	1		
31	f5	162	Total	C	N	O	S	0	0
			1030	634	179	215	2		
31	h5	162	Total	C	N	O	S	0	0
			1042	637	189	214	2		
31	j5	162	Total	C	N	O	S	0	0
			1029	633	182	212	2		
31	l5	162	Total	C	N	O	S	0	0
			1059	650	186	222	1		
31	b6	162	Total	C	N	O	S	0	0
			1052	645	186	218	3		
31	d6	162	Total	C	N	O	S	0	0
			1013	619	181	212	1		
31	f6	162	Total	C	N	O	S	0	0
			1030	634	179	215	2		
31	h6	162	Total	C	N	O	S	0	0
			1042	637	189	214	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
31	j6	162	Total 1029	C 633	N 182	O 212	S 2	0	0
31	l6	162	Total 1059	C 650	N 186	O 222	S 1	0	0
31	b7	162	Total 1052	C 645	N 186	O 218	S 3	0	0
31	d7	162	Total 1013	C 619	N 181	O 212	S 1	0	0
31	f7	162	Total 1030	C 634	N 179	O 215	S 2	0	0
31	h7	162	Total 1042	C 637	N 189	O 214	S 2	0	0
31	j7	162	Total 1029	C 633	N 182	O 212	S 2	0	0
31	l7	162	Total 1059	C 650	N 186	O 222	S 1	0	0
31	b8	162	Total 1052	C 645	N 186	O 218	S 3	0	0
31	d8	162	Total 1013	C 619	N 181	O 212	S 1	0	0
31	f8	162	Total 1030	C 634	N 179	O 215	S 2	0	0
31	h8	162	Total 1042	C 637	N 189	O 214	S 2	0	0
31	j8	162	Total 1029	C 633	N 182	O 212	S 2	0	0
31	l8	162	Total 1059	C 650	N 186	O 222	S 1	0	0
31	b9	162	Total 1052	C 645	N 186	O 218	S 3	0	0
31	d9	162	Total 1013	C 619	N 181	O 212	S 1	0	0
31	f9	162	Total 1030	C 634	N 179	O 215	S 2	0	0
31	h9	162	Total 1036	C 634	N 186	O 214	S 2	0	0
31	j9	162	Total 1029	C 633	N 182	O 212	S 2	0	0
31	l9	162	Total 1059	C 650	N 186	O 222	S 1	0	0
31	bA	162	Total 1052	C 645	N 186	O 218	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
31	dA	162	Total 1013	C 619	N 181	O 212	S 1	0	0
31	fA	162	Total 1030	C 634	N 179	O 215	S 2	0	0
31	hA	162	Total 1042	C 637	N 189	O 214	S 2	0	0
31	jA	162	Total 1029	C 633	N 182	O 212	S 2	0	0
31	lA	162	Total 1059	C 650	N 186	O 222	S 1	0	0
31	bC	162	Total 1052	C 645	N 186	O 218	S 3	0	0
31	dC	162	Total 1013	C 619	N 181	O 212	S 1	0	0
31	fC	162	Total 1030	C 634	N 179	O 215	S 2	0	0
31	hC	162	Total 1042	C 637	N 189	O 214	S 2	0	0
31	jC	162	Total 1029	C 633	N 182	O 212	S 2	0	0
31	lC	162	Total 1059	C 650	N 186	O 222	S 1	0	0
31	bH	162	Total 1052	C 645	N 186	O 218	S 3	0	0
31	dH	162	Total 1013	C 619	N 181	O 212	S 1	0	0
31	fH	162	Total 1030	C 634	N 179	O 215	S 2	0	0
31	hH	162	Total 1042	C 637	N 189	O 214	S 2	0	0
31	jH	162	Total 1029	C 633	N 182	O 212	S 2	0	0
31	lH	162	Total 1059	C 650	N 186	O 222	S 1	0	0
31	bI	162	Total 1052	C 645	N 186	O 218	S 3	0	0
31	dI	162	Total 1013	C 619	N 181	O 212	S 1	0	0
31	fI	162	Total 1030	C 634	N 179	O 215	S 2	0	0
31	hI	162	Total 1042	C 637	N 189	O 214	S 2	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
31	jI	162	Total	C	N	O	S	0	0
			1029	633	182	212	2		
31	II	162	Total	C	N	O	S	0	0
			1059	650	186	222	1		
31	bJ	162	Total	C	N	O	S	0	0
			1052	645	186	218	3		
31	dJ	162	Total	C	N	O	S	0	0
			1013	619	181	212	1		
31	fJ	162	Total	C	N	O	S	0	0
			1030	634	179	215	2		
31	hJ	162	Total	C	N	O	S	0	0
			1042	637	189	214	2		
31	jJ	162	Total	C	N	O	S	0	0
			1029	633	182	212	2		
31	lJ	162	Total	C	N	O	S	0	0
			1059	650	186	222	1		

- Molecule 32 is a protein called Phycocyanin beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	c2	172	Total	C	N	O	S	0	0
			1076	651	191	228	6		
32	e2	172	Total	C	N	O	S	0	0
			1063	642	188	228	5		
32	g2	172	Total	C	N	O	S	0	0
			1088	655	198	228	7		
32	i2	172	Total	C	N	O	S	0	0
			1086	654	195	231	6		
32	k2	172	Total	C	N	O	S	0	0
			1103	665	195	238	5		
32	m2	172	Total	C	N	O	S	0	0
			1098	662	195	235	6		
32	c3	172	Total	C	N	O	S	0	0
			1076	651	191	228	6		
32	e3	172	Total	C	N	O	S	0	0
			1063	642	188	228	5		
32	g3	172	Total	C	N	O	S	0	0
			1088	655	198	228	7		
32	i3	172	Total	C	N	O	S	0	0
			1086	654	195	231	6		
32	k3	172	Total	C	N	O	S	0	0
			1103	665	195	238	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
32	m3	172	1098	662	195	235	6	0	0
32	c5	172	1076	651	191	228	6	0	0
32	e5	172	1063	642	188	228	5	0	0
32	g5	172	1088	655	198	228	7	0	0
32	i5	172	1086	654	195	231	6	0	0
32	k5	172	1103	665	195	238	5	0	0
32	m5	172	1098	662	195	235	6	0	0
32	c6	172	1076	651	191	228	6	0	0
32	e6	172	1063	642	188	228	5	0	0
32	g6	172	1088	655	198	228	7	0	0
32	i6	172	1086	654	195	231	6	0	0
32	k6	172	1103	665	195	238	5	0	0
32	m6	172	1098	662	195	235	6	0	0
32	c7	172	1076	651	191	228	6	0	0
32	e7	172	1063	642	188	228	5	0	0
32	g7	172	1088	655	198	228	7	0	0
32	i7	172	1086	654	195	231	6	0	0
32	k7	172	1103	665	195	238	5	0	0
32	m7	172	1098	662	195	235	6	0	0
32	c8	172	1076	651	191	228	6	0	0
32	e8	172	1063	642	188	228	5	0	0

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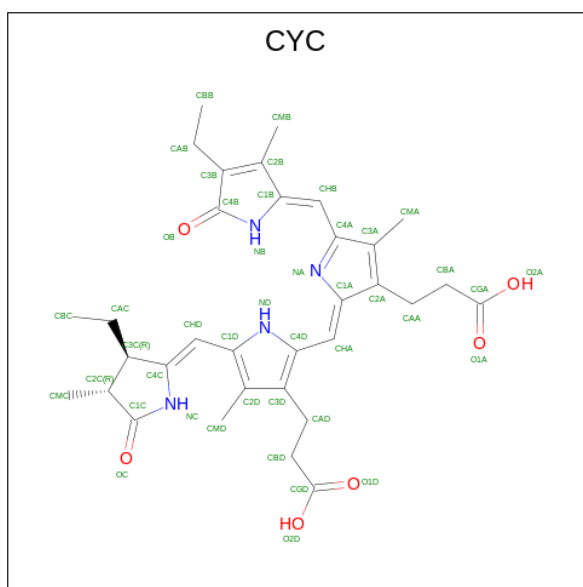
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
32	g8	172	1088	655	198	228	7	0	0
32	i8	172	1086	654	195	231	6	0	0
32	k8	172	1103	665	195	238	5	0	0
32	m8	172	1098	662	195	235	6	0	0
32	c9	172	1076	651	191	228	6	0	0
32	e9	172	1063	642	188	228	5	0	0
32	g9	172	1088	655	198	228	7	0	0
32	i9	172	1086	654	195	231	6	0	0
32	k9	172	1103	665	195	238	5	0	0
32	m9	172	1098	662	195	235	6	0	0
32	cA	172	1076	651	191	228	6	0	0
32	eA	172	1063	642	188	228	5	0	0
32	gA	172	1088	655	198	228	7	0	0
32	iA	172	1086	654	195	231	6	0	0
32	kA	172	1103	665	195	238	5	0	0
32	mA	172	1098	662	195	235	6	0	0
32	cC	172	1076	651	191	228	6	0	0
32	eC	172	1063	642	188	228	5	0	0
32	gC	172	1088	655	198	228	7	0	0
32	iC	172	1086	654	195	231	6	0	0
32	kC	172	1103	665	195	238	5	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
32	mC	172	1098	662	195	235	6	0	0
32	cH	172	1076	651	191	228	6	0	0
32	eH	172	1063	642	188	228	5	0	0
32	gH	172	1088	655	198	228	7	0	0
32	iH	172	1086	654	195	231	6	0	0
32	kH	172	1103	665	195	238	5	0	0
32	mH	172	1098	662	195	235	6	0	0
32	cI	172	1073	650	190	227	6	0	0
32	eI	172	1063	642	188	228	5	0	0
32	gI	172	1085	654	197	227	7	0	0
32	iI	172	1086	654	195	231	6	0	0
32	kI	172	1103	665	195	238	5	0	0
32	mI	172	1098	662	195	235	6	0	0
32	cJ	172	1076	651	191	228	6	0	0
32	eJ	172	1063	642	188	228	5	0	0
32	gJ	172	1088	655	198	228	7	0	0
32	iJ	172	1086	654	195	231	6	0	0
32	kJ	172	1103	665	195	238	5	0	0
32	mJ	172	1098	662	195	235	6	0	0

- Molecule 33 is PHYCOCYANOBILIN (three-letter code: CYC) (formula: $C_{33}H_{40}N_4O_6$).



Mol	Chain	Residues	Atoms			AltConf	
			Total	C	N		O
33	BA	1	43	33	4	6	0
33	BB	1	43	33	4	6	0
33	BB	1	43	33	4	6	0
33	BB	1	43	33	4	6	0
33	BB	1	43	33	4	6	0
33	CB	1	43	33	4	6	0
33	CB	1	43	33	4	6	0
33	CB	1	43	33	4	6	0
33	OB	1	43	33	4	6	0
33	PB	1	43	33	4	6	0
33	QB	1	43	33	4	6	0
33	RB	1	43	33	4	6	0
33	SB	1	43	33	4	6	0
33	TB	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	VB	1	Total 43	C 33	N 4	O 6	0
33	WB	1	Total 43	C 33	N 4	O 6	0
33	XB	1	Total 43	C 33	N 4	O 6	0
33	ZB	1	Total 43	C 33	N 4	O 6	0
33	BC	1	Total 43	C 33	N 4	O 6	0
33	IF	1	Total 43	C 33	N 4	O 6	0
33	JF	1	Total 43	C 33	N 4	O 6	0
33	KF	1	Total 43	C 33	N 4	O 6	0
33	LF	1	Total 43	C 33	N 4	O 6	0
33	NF	1	Total 43	C 33	N 4	O 6	0
33	XF	1	Total 43	C 33	N 4	O 6	0
33	YF	1	Total 43	C 33	N 4	O 6	0
33	ZF	1	Total 43	C 33	N 4	O 6	0
33	AG	1	Total 43	C 33	N 4	O 6	0
33	GG	1	Total 43	C 33	N 4	O 6	0
33	HG	1	Total 43	C 33	N 4	O 6	0
33	IG	1	Total 43	C 33	N 4	O 6	0
33	JG	1	Total 43	C 33	N 4	O 6	0
33	LG	1	Total 43	C 33	N 4	O 6	0
33	MG	1	Total 43	C 33	N 4	O 6	0
33	NG	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	OG	1	Total 43	C 33	N 4	O 6	0
33	PG	1	Total 43	C 33	N 4	O 6	0
33	QG	1	Total 43	C 33	N 4	O 6	0
33	RG	1	Total 43	C 33	N 4	O 6	0
33	TG	1	Total 43	C 33	N 4	O 6	0
33	VG	1	Total 43	C 33	N 4	O 6	0
33	WG	1	Total 43	C 33	N 4	O 6	0
33	BI	1	Total 43	C 33	N 4	O 6	0
33	IK	1	Total 43	C 33	N 4	O 6	0
33	JK	1	Total 43	C 33	N 4	O 6	0
33	KK	1	Total 43	C 33	N 4	O 6	0
33	LK	1	Total 43	C 33	N 4	O 6	0
33	NK	1	Total 43	C 33	N 4	O 6	0
33	XK	1	Total 43	C 33	N 4	O 6	0
33	YK	1	Total 43	C 33	N 4	O 6	0
33	ZK	1	Total 43	C 33	N 4	O 6	0
33	AL	1	Total 43	C 33	N 4	O 6	0
33	GL	1	Total 43	C 33	N 4	O 6	0
33	HL	1	Total 43	C 33	N 4	O 6	0
33	IL	1	Total 43	C 33	N 4	O 6	0
33	JL	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	LL	1	43	33	4	6	0
33	ML	1	43	33	4	6	0
33	NL	1	43	33	4	6	0
33	OL	1	43	33	4	6	0
33	PL	1	43	33	4	6	0
33	QL	1	43	33	4	6	0
33	RL	1	43	33	4	6	0
33	TL	1	43	33	4	6	0
33	VL	1	43	33	4	6	0
33	WL	1	43	33	4	6	0
33	b2	1	43	33	4	6	0
33	c2	1	43	33	4	6	0
33	c2	1	43	33	4	6	0
33	d2	1	43	33	4	6	0
33	e2	1	43	33	4	6	0
33	e2	1	43	33	4	6	0
33	f2	1	43	33	4	6	0
33	g2	1	43	33	4	6	0
33	h2	1	43	33	4	6	0
33	i2	1	43	33	4	6	0
33	i2	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	j2	1	Total 43	C 33	N 4	O 6	0
33	j2	1	Total 43	C 33	N 4	O 6	0
33	k2	1	Total 43	C 33	N 4	O 6	0
33	l2	1	Total 43	C 33	N 4	O 6	0
33	m2	1	Total 43	C 33	N 4	O 6	0
33	B2	1	Total 43	C 33	N 4	O 6	0
33	b3	1	Total 43	C 33	N 4	O 6	0
33	c3	1	Total 43	C 33	N 4	O 6	0
33	c3	1	Total 43	C 33	N 4	O 6	0
33	d3	1	Total 43	C 33	N 4	O 6	0
33	e3	1	Total 43	C 33	N 4	O 6	0
33	e3	1	Total 43	C 33	N 4	O 6	0
33	f3	1	Total 43	C 33	N 4	O 6	0
33	g3	1	Total 43	C 33	N 4	O 6	0
33	h3	1	Total 43	C 33	N 4	O 6	0
33	i3	1	Total 43	C 33	N 4	O 6	0
33	i3	1	Total 43	C 33	N 4	O 6	0
33	j3	1	Total 43	C 33	N 4	O 6	0
33	j3	1	Total 43	C 33	N 4	O 6	0
33	k3	1	Total 43	C 33	N 4	O 6	0
33	l3	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	m3	1	43	33	4	6	0
33	B3	1	43	33	4	6	0
33	Z4	1	43	33	4	6	0
33	a4	1	43	33	4	6	0
33	b4	1	43	33	4	6	0
33	S4	1	43	33	4	6	0
33	T4	1	43	33	4	6	0
33	V4	1	43	33	4	6	0
33	W4	1	43	33	4	6	0
33	X4	1	43	33	4	6	0
33	s4	1	43	33	4	6	0
33	u4	1	43	33	4	6	0
33	v4	1	43	33	4	6	0
33	w4	1	43	33	4	6	0
33	o4	1	43	33	4	6	0
33	q4	1	43	33	4	6	0
33	r4	1	43	33	4	6	0
33	y4	1	43	33	4	6	0
33	z4	1	43	33	4	6	0
33	B4	1	43	33	4	6	0
33	B4	1	43	33	4	6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	B4	1	Total 43	C 33	N 4	O 6	0
33	B4	1	Total 43	C 33	N 4	O 6	0
33	C4	1	Total 43	C 33	N 4	O 6	0
33	C4	1	Total 43	C 33	N 4	O 6	0
33	C4	1	Total 43	C 33	N 4	O 6	0
33	O4	1	Total 43	C 33	N 4	O 6	0
33	P4	1	Total 43	C 33	N 4	O 6	0
33	Q4	1	Total 43	C 33	N 4	O 6	0
33	R4	1	Total 43	C 33	N 4	O 6	0
33	b5	1	Total 43	C 33	N 4	O 6	0
33	c5	1	Total 43	C 33	N 4	O 6	0
33	c5	1	Total 43	C 33	N 4	O 6	0
33	d5	1	Total 43	C 33	N 4	O 6	0
33	e5	1	Total 43	C 33	N 4	O 6	0
33	e5	1	Total 43	C 33	N 4	O 6	0
33	f5	1	Total 43	C 33	N 4	O 6	0
33	g5	1	Total 43	C 33	N 4	O 6	0
33	g5	1	Total 43	C 33	N 4	O 6	0
33	h5	1	Total 43	C 33	N 4	O 6	0
33	i5	1	Total 43	C 33	N 4	O 6	0
33	i5	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	j5	1	Total 43	C 33	N 4	O 6	0
33	j5	1	Total 43	C 33	N 4	O 6	0
33	k5	1	Total 43	C 33	N 4	O 6	0
33	l5	1	Total 43	C 33	N 4	O 6	0
33	m5	1	Total 43	C 33	N 4	O 6	0
33	b6	1	Total 43	C 33	N 4	O 6	0
33	c6	1	Total 43	C 33	N 4	O 6	0
33	c6	1	Total 43	C 33	N 4	O 6	0
33	d6	1	Total 43	C 33	N 4	O 6	0
33	e6	1	Total 43	C 33	N 4	O 6	0
33	e6	1	Total 43	C 33	N 4	O 6	0
33	f6	1	Total 43	C 33	N 4	O 6	0
33	g6	1	Total 43	C 33	N 4	O 6	0
33	h6	1	Total 43	C 33	N 4	O 6	0
33	i6	1	Total 43	C 33	N 4	O 6	0
33	i6	1	Total 43	C 33	N 4	O 6	0
33	j6	1	Total 43	C 33	N 4	O 6	0
33	j6	1	Total 43	C 33	N 4	O 6	0
33	k6	1	Total 43	C 33	N 4	O 6	0
33	l6	1	Total 43	C 33	N 4	O 6	0
33	m6	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	B6	1	Total 43	C 33	N 4	O 6	0
33	b7	1	Total 43	C 33	N 4	O 6	0
33	c7	1	Total 43	C 33	N 4	O 6	0
33	c7	1	Total 43	C 33	N 4	O 6	0
33	d7	1	Total 43	C 33	N 4	O 6	0
33	e7	1	Total 43	C 33	N 4	O 6	0
33	e7	1	Total 43	C 33	N 4	O 6	0
33	f7	1	Total 43	C 33	N 4	O 6	0
33	g7	1	Total 43	C 33	N 4	O 6	0
33	h7	1	Total 43	C 33	N 4	O 6	0
33	i7	1	Total 43	C 33	N 4	O 6	0
33	i7	1	Total 43	C 33	N 4	O 6	0
33	j7	1	Total 43	C 33	N 4	O 6	0
33	j7	1	Total 43	C 33	N 4	O 6	0
33	k7	1	Total 43	C 33	N 4	O 6	0
33	l7	1	Total 43	C 33	N 4	O 6	0
33	m7	1	Total 43	C 33	N 4	O 6	0
33	B7	1	Total 43	C 33	N 4	O 6	0
33	b8	1	Total 43	C 33	N 4	O 6	0
33	c8	1	Total 43	C 33	N 4	O 6	0
33	c8	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	d8	1	Total 43	C 33	N 4	O 6	0
33	e8	1	Total 43	C 33	N 4	O 6	0
33	e8	1	Total 43	C 33	N 4	O 6	0
33	f8	1	Total 43	C 33	N 4	O 6	0
33	g8	1	Total 43	C 33	N 4	O 6	0
33	g8	1	Total 43	C 33	N 4	O 6	0
33	h8	1	Total 43	C 33	N 4	O 6	0
33	i8	1	Total 43	C 33	N 4	O 6	0
33	i8	1	Total 43	C 33	N 4	O 6	0
33	j8	1	Total 43	C 33	N 4	O 6	0
33	j8	1	Total 43	C 33	N 4	O 6	0
33	k8	1	Total 43	C 33	N 4	O 6	0
33	l8	1	Total 43	C 33	N 4	O 6	0
33	m8	1	Total 43	C 33	N 4	O 6	0
33	b9	1	Total 43	C 33	N 4	O 6	0
33	c9	1	Total 43	C 33	N 4	O 6	0
33	c9	1	Total 43	C 33	N 4	O 6	0
33	d9	1	Total 43	C 33	N 4	O 6	0
33	e9	1	Total 43	C 33	N 4	O 6	0
33	e9	1	Total 43	C 33	N 4	O 6	0
33	f9	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	g9	1	Total 43	C 33	N 4	O 6	0
33	h9	1	Total 43	C 33	N 4	O 6	0
33	i9	1	Total 43	C 33	N 4	O 6	0
33	i9	1	Total 43	C 33	N 4	O 6	0
33	j9	1	Total 43	C 33	N 4	O 6	0
33	j9	1	Total 43	C 33	N 4	O 6	0
33	k9	1	Total 43	C 33	N 4	O 6	0
33	l9	1	Total 43	C 33	N 4	O 6	0
33	m9	1	Total 43	C 33	N 4	O 6	0
33	B9	1	Total 43	C 33	N 4	O 6	0
33	bA	1	Total 43	C 33	N 4	O 6	0
33	cA	1	Total 43	C 33	N 4	O 6	0
33	cA	1	Total 43	C 33	N 4	O 6	0
33	dA	1	Total 43	C 33	N 4	O 6	0
33	eA	1	Total 43	C 33	N 4	O 6	0
33	eA	1	Total 43	C 33	N 4	O 6	0
33	fA	1	Total 43	C 33	N 4	O 6	0
33	gA	1	Total 43	C 33	N 4	O 6	0
33	hA	1	Total 43	C 33	N 4	O 6	0
33	iA	1	Total 43	C 33	N 4	O 6	0
33	iA	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	jA	1	Total 43	C 33	N 4	O 6	0
33	jA	1	Total 43	C 33	N 4	O 6	0
33	kA	1	Total 43	C 33	N 4	O 6	0
33	lA	1	Total 43	C 33	N 4	O 6	0
33	mA	1	Total 43	C 33	N 4	O 6	0
33	aB	1	Total 43	C 33	N 4	O 6	0
33	bB	1	Total 43	C 33	N 4	O 6	0
33	sB	1	Total 43	C 33	N 4	O 6	0
33	uB	1	Total 43	C 33	N 4	O 6	0
33	vB	1	Total 43	C 33	N 4	O 6	0
33	wB	1	Total 43	C 33	N 4	O 6	0
33	oB	1	Total 43	C 33	N 4	O 6	0
33	qB	1	Total 43	C 33	N 4	O 6	0
33	rB	1	Total 43	C 33	N 4	O 6	0
33	yB	1	Total 43	C 33	N 4	O 6	0
33	zB	1	Total 43	C 33	N 4	O 6	0
33	bC	1	Total 43	C 33	N 4	O 6	0
33	cC	1	Total 43	C 33	N 4	O 6	0
33	cC	1	Total 43	C 33	N 4	O 6	0
33	dC	1	Total 43	C 33	N 4	O 6	0
33	eC	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	eC	1	Total 43	C 33	N 4	O 6	0
33	fC	1	Total 43	C 33	N 4	O 6	0
33	gC	1	Total 43	C 33	N 4	O 6	0
33	hC	1	Total 43	C 33	N 4	O 6	0
33	iC	1	Total 43	C 33	N 4	O 6	0
33	iC	1	Total 43	C 33	N 4	O 6	0
33	jC	1	Total 43	C 33	N 4	O 6	0
33	jC	1	Total 43	C 33	N 4	O 6	0
33	kC	1	Total 43	C 33	N 4	O 6	0
33	lC	1	Total 43	C 33	N 4	O 6	0
33	mC	1	Total 43	C 33	N 4	O 6	0
33	aF	1	Total 43	C 33	N 4	O 6	0
33	bF	1	Total 43	C 33	N 4	O 6	0
33	cF	1	Total 43	C 33	N 4	O 6	0
33	dF	1	Total 43	C 33	N 4	O 6	0
33	eF	1	Total 43	C 33	N 4	O 6	0
33	3F	1	Total 43	C 33	N 4	O 6	0
33	3F	1	Total 43	C 33	N 4	O 6	0
33	fF	1	Total 43	C 33	N 4	O 6	0
33	gF	1	Total 43	C 33	N 4	O 6	0
33	hF	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	jF	1	Total 43	C 33	N 4	O 6	0
33	kF	1	Total 43	C 33	N 4	O 6	0
33	mF	1	Total 43	C 33	N 4	O 6	0
33	nF	1	Total 43	C 33	N 4	O 6	0
33	9F	1	Total 43	C 33	N 4	O 6	0
33	2G	1	Total 43	C 33	N 4	O 6	0
33	1G	1	Total 43	C 33	N 4	O 6	0
33	4G	1	Total 43	C 33	N 4	O 6	0
33	5G	1	Total 43	C 33	N 4	O 6	0
33	6G	1	Total 43	C 33	N 4	O 6	0
33	7G	1	Total 43	C 33	N 4	O 6	0
33	bH	1	Total 43	C 33	N 4	O 6	0
33	cH	1	Total 43	C 33	N 4	O 6	0
33	cH	1	Total 43	C 33	N 4	O 6	0
33	dH	1	Total 43	C 33	N 4	O 6	0
33	eH	1	Total 43	C 33	N 4	O 6	0
33	eH	1	Total 43	C 33	N 4	O 6	0
33	fH	1	Total 43	C 33	N 4	O 6	0
33	gH	1	Total 43	C 33	N 4	O 6	0
33	gH	1	Total 43	C 33	N 4	O 6	0
33	hH	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	iH	1	Total 43	C 33	N 4	O 6	0
33	iH	1	Total 43	C 33	N 4	O 6	0
33	jH	1	Total 43	C 33	N 4	O 6	0
33	jH	1	Total 43	C 33	N 4	O 6	0
33	kH	1	Total 43	C 33	N 4	O 6	0
33	lH	1	Total 43	C 33	N 4	O 6	0
33	mH	1	Total 43	C 33	N 4	O 6	0
33	bI	1	Total 43	C 33	N 4	O 6	0
33	cI	1	Total 43	C 33	N 4	O 6	0
33	cI	1	Total 43	C 33	N 4	O 6	0
33	dI	1	Total 43	C 33	N 4	O 6	0
33	eI	1	Total 43	C 33	N 4	O 6	0
33	eI	1	Total 43	C 33	N 4	O 6	0
33	fI	1	Total 43	C 33	N 4	O 6	0
33	gI	1	Total 43	C 33	N 4	O 6	0
33	hI	1	Total 43	C 33	N 4	O 6	0
33	iI	1	Total 43	C 33	N 4	O 6	0
33	iI	1	Total 43	C 33	N 4	O 6	0
33	jI	1	Total 43	C 33	N 4	O 6	0
33	jI	1	Total 43	C 33	N 4	O 6	0
33	kI	1	Total 43	C 33	N 4	O 6	0

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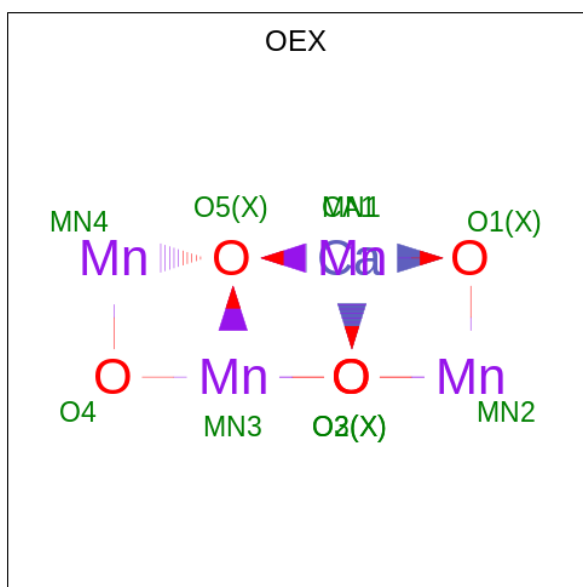
Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	lI	1	Total 43	C 33	N 4	O 6	0
33	mI	1	Total 43	C 33	N 4	O 6	0
33	bJ	1	Total 43	C 33	N 4	O 6	0
33	cJ	1	Total 43	C 33	N 4	O 6	0
33	cJ	1	Total 43	C 33	N 4	O 6	0
33	dJ	1	Total 43	C 33	N 4	O 6	0
33	eJ	1	Total 43	C 33	N 4	O 6	0
33	eJ	1	Total 43	C 33	N 4	O 6	0
33	fJ	1	Total 43	C 33	N 4	O 6	0
33	gJ	1	Total 43	C 33	N 4	O 6	0
33	gJ	1	Total 43	C 33	N 4	O 6	0
33	hJ	1	Total 43	C 33	N 4	O 6	0
33	iJ	1	Total 43	C 33	N 4	O 6	0
33	iJ	1	Total 43	C 33	N 4	O 6	0
33	jJ	1	Total 43	C 33	N 4	O 6	0
33	jJ	1	Total 43	C 33	N 4	O 6	0
33	kJ	1	Total 43	C 33	N 4	O 6	0
33	lJ	1	Total 43	C 33	N 4	O 6	0
33	mJ	1	Total 43	C 33	N 4	O 6	0
33	aK	1	Total 43	C 33	N 4	O 6	0
33	bK	1	Total 43	C 33	N 4	O 6	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
33	cK	1	43	33	4	6	0
33	dK	1	43	33	4	6	0
33	eK	1	43	33	4	6	0
33	3K	1	43	33	4	6	0
33	3K	1	43	33	4	6	0
33	fK	1	43	33	4	6	0
33	gK	1	43	33	4	6	0
33	hK	1	43	33	4	6	0
33	jK	1	43	33	4	6	0
33	kK	1	43	33	4	6	0
33	mK	1	43	33	4	6	0
33	nK	1	43	33	4	6	0
33	9K	1	43	33	4	6	0
33	2L	1	43	33	4	6	0
33	1L	1	43	33	4	6	0
33	4L	1	43	33	4	6	0
33	5L	1	43	33	4	6	0
33	6L	1	43	33	4	6	0
33	7L	1	43	33	4	6	0

- Molecule 34 is CA-MN4-O5 CLUSTER (three-letter code: OEX) (formula: CaMn_4O_5).

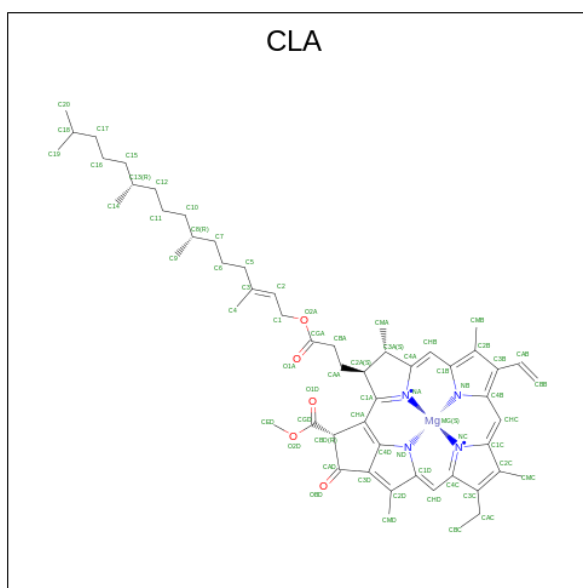


Mol	Chain	Residues	Atoms				AltConf
			Total	Ca	Mn	O	
34	AD	1	10	1	4	5	0
34	AE	1	10	1	4	5	0
34	A1	1	10	1	4	5	0
34	a1	1	10	1	4	5	0
34	aD	1	10	1	4	5	0
34	aE	1	10	1	4	5	0

- Molecule 35 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		AltConf
			Total	Cl	
35	AD	2	2	2	0
35	AE	2	2	2	0
35	A1	2	2	2	0
35	a1	2	2	2	0
35	aD	2	2	2	0
35	aE	2	2	2	0

- Molecule 36 is CHLOROPHYLL A (three-letter code: CLA) (formula: $C_{55}H_{72}MgN_4O_5$).



Mol	Chain	Residues	Atoms				AltConf	
36	AD	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
36	AD	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
36	BD	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
36	BD	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
36	BD	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
36	BD	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
36	BD	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
36	BD	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
36	BD	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
36	BD	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
36	BD	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
36	BD	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
36	BD	1	65	55	1	4	5	0
36	BD	1	65	55	1	4	5	0
36	BD	1	65	55	1	4	5	0
36	CD	1	65	55	1	4	5	0
36	CD	1	65	55	1	4	5	0
36	CD	1	65	55	1	4	5	0
36	CD	1	65	55	1	4	5	0
36	CD	1	55	45	1	4	5	0
36	CD	1	65	55	1	4	5	0
36	CD	1	65	55	1	4	5	0
36	CD	1	65	55	1	4	5	0
36	CD	1	65	55	1	4	5	0
36	CD	1	65	55	1	4	5	0
36	CD	1	65	55	1	4	5	0
36	CD	1	65	55	1	4	5	0
36	CD	1	50	40	1	4	5	0
36	CD	1	65	55	1	4	5	0
36	DD	1	65	55	1	4	5	0
36	DD	1	65	55	1	4	5	0
36	HD	1	65	55	1	4	5	0
36	HD	1	60	50	1	4	5	0
36	ID	1	60	50	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
36	XD	1	65	55	1	4	5	0
36	AE	1	46	36	1	4	5	0
36	AE	1	65	55	1	4	5	0
36	BE	1	45	35	1	4	5	0
36	BE	1	65	55	1	4	5	0
36	BE	1	65	55	1	4	5	0
36	BE	1	65	55	1	4	5	0
36	BE	1	65	55	1	4	5	0
36	BE	1	60	50	1	4	5	0
36	BE	1	65	55	1	4	5	0
36	BE	1	65	55	1	4	5	0
36	BE	1	65	55	1	4	5	0
36	BE	1	65	55	1	4	5	0
36	BE	1	65	55	1	4	5	0
36	BE	1	65	55	1	4	5	0
36	BE	1	65	55	1	4	5	0
36	BE	1	65	55	1	4	5	0
36	CE	1	65	55	1	4	5	0
36	CE	1	65	55	1	4	5	0
36	CE	1	65	55	1	4	5	0
36	CE	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
36	CE	1	55	45	1	4	5	0
36	CE	1	65	55	1	4	5	0
36	CE	1	65	55	1	4	5	0
36	CE	1	65	55	1	4	5	0
36	CE	1	65	55	1	4	5	0
36	CE	1	65	55	1	4	5	0
36	CE	1	65	55	1	4	5	0
36	CE	1	65	55	1	4	5	0
36	CE	1	50	40	1	4	5	0
36	CE	1	65	55	1	4	5	0
36	DE	1	65	55	1	4	5	0
36	DE	1	65	55	1	4	5	0
36	HE	1	65	55	1	4	5	0
36	HE	1	60	50	1	4	5	0
36	IE	1	60	50	1	4	5	0
36	XE	1	65	55	1	4	5	0
36	A1	1	46	36	1	4	5	0
36	A1	1	65	55	1	4	5	0
36	B1	1	45	35	1	4	5	0
36	B1	1	65	55	1	4	5	0
36	B1	1	65	55	1	4	5	0
36	B1	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
36	B1	1	65	55	1	4	5	0
36	B1	1	60	50	1	4	5	0
36	B1	1	65	55	1	4	5	0
36	B1	1	65	55	1	4	5	0
36	B1	1	65	55	1	4	5	0
36	B1	1	65	55	1	4	5	0
36	B1	1	65	55	1	4	5	0
36	B1	1	65	55	1	4	5	0
36	B1	1	65	55	1	4	5	0
36	B1	1	65	55	1	4	5	0
36	B1	1	65	55	1	4	5	0
36	C1	1	65	55	1	4	5	0
36	C1	1	65	55	1	4	5	0
36	C1	1	65	55	1	4	5	0
36	C1	1	65	55	1	4	5	0
36	C1	1	55	45	1	4	5	0
36	C1	1	65	55	1	4	5	0
36	C1	1	65	55	1	4	5	0
36	C1	1	65	55	1	4	5	0
36	C1	1	65	55	1	4	5	0
36	C1	1	65	55	1	4	5	0
36	C1	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
36	C1	1	50	40	1	4	5	0
36	C1	1	65	55	1	4	5	0
36	D1	1	65	55	1	4	5	0
36	D1	1	65	55	1	4	5	0
36	H1	1	65	55	1	4	5	0
36	H1	1	60	50	1	4	5	0
36	I1	1	60	50	1	4	5	0
36	X1	1	65	55	1	4	5	0
36	a1	1	46	36	1	4	5	0
36	a1	1	65	55	1	4	5	0
36	a1	1	60	50	1	4	5	0
36	b1	1	45	35	1	4	5	0
36	b1	1	65	55	1	4	5	0
36	b1	1	65	55	1	4	5	0
36	b1	1	65	55	1	4	5	0
36	b1	1	60	50	1	4	5	0
36	b1	1	65	55	1	4	5	0
36	b1	1	65	55	1	4	5	0
36	b1	1	65	55	1	4	5	0
36	b1	1	65	55	1	4	5	0
36	b1	1	65	55	1	4	5	0
36	b1	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
36	b1	1	65	55	1	4	5	0
36	b1	1	65	55	1	4	5	0
36	b1	1	65	55	1	4	5	0
36	c1	1	65	55	1	4	5	0
36	c1	1	65	55	1	4	5	0
36	c1	1	65	55	1	4	5	0
36	c1	1	65	55	1	4	5	0
36	c1	1	55	45	1	4	5	0
36	c1	1	65	55	1	4	5	0
36	c1	1	65	55	1	4	5	0
36	c1	1	65	55	1	4	5	0
36	c1	1	65	55	1	4	5	0
36	c1	1	65	55	1	4	5	0
36	c1	1	65	55	1	4	5	0
36	c1	1	50	40	1	4	5	0
36	c1	1	65	55	1	4	5	0
36	d1	1	65	55	1	4	5	0
36	d1	1	65	55	1	4	5	0
36	d1	1	65	55	1	4	5	0
36	h1	1	65	55	1	4	5	0
36	h1	1	60	50	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
36	x1	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	aD	1	Total 46	C 36	Mg 1	N 4	O 5	0
36	aD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	aD	1	Total 60	C 50	Mg 1	N 4	O 5	0
36	bD	1	Total 45	C 35	Mg 1	N 4	O 5	0
36	bD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	bD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	bD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	bD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	bD	1	Total 60	C 50	Mg 1	N 4	O 5	0
36	bD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	bD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	bD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	bD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	bD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	bD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	bD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	cD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	cD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	cD	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	cD	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
36	cD	1	65	55	1	4	5	0
36	cD	1	65	55	1	4	5	0
36	cD	1	65	55	1	4	5	0
36	cD	1	65	55	1	4	5	0
36	cD	1	65	55	1	4	5	0
36	cD	1	65	55	1	4	5	0
36	cD	1	50	40	1	4	5	0
36	cD	1	65	55	1	4	5	0
36	dD	1	65	55	1	4	5	0
36	dD	1	65	55	1	4	5	0
36	dD	1	65	55	1	4	5	0
36	hD	1	65	55	1	4	5	0
36	hD	1	60	50	1	4	5	0
36	iD	1	55	45	1	4	5	0
36	xD	1	65	55	1	4	5	0
36	aE	1	46	36	1	4	5	0
36	aE	1	65	55	1	4	5	0
36	aE	1	60	50	1	4	5	0
36	bE	1	45	35	1	4	5	0
36	bE	1	65	55	1	4	5	0
36	bE	1	65	55	1	4	5	0

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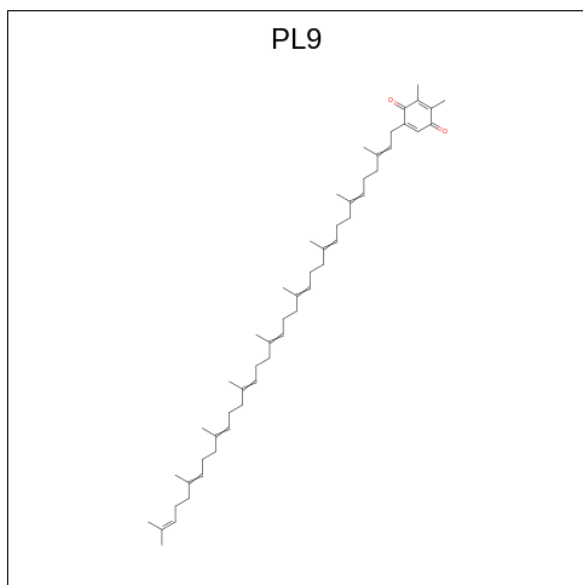
Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
36	bE	1	65	55	1	4	5	0
36	bE	1	65	55	1	4	5	0
36	bE	1	60	50	1	4	5	0
36	bE	1	65	55	1	4	5	0
36	bE	1	65	55	1	4	5	0
36	bE	1	65	55	1	4	5	0
36	bE	1	65	55	1	4	5	0
36	bE	1	65	55	1	4	5	0
36	bE	1	65	55	1	4	5	0
36	bE	1	65	55	1	4	5	0
36	cE	1	65	55	1	4	5	0
36	cE	1	65	55	1	4	5	0
36	cE	1	65	55	1	4	5	0
36	cE	1	65	55	1	4	5	0
36	cE	1	65	55	1	4	5	0
36	cE	1	65	55	1	4	5	0
36	cE	1	65	55	1	4	5	0
36	cE	1	65	55	1	4	5	0
36	cE	1	65	55	1	4	5	0
36	cE	1	65	55	1	4	5	0
36	cE	1	50	40	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
36	cE	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	dE	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	dE	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	dE	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	hE	1	Total 65	C 55	Mg 1	N 4	O 5	0
36	hE	1	Total 60	C 50	Mg 1	N 4	O 5	0
36	iE	1	Total 55	C 45	Mg 1	N 4	O 5	0
36	xE	1	Total 65	C 55	Mg 1	N 4	O 5	0

- Molecule 37 is 2,3-DIMETHYL-5-(3,7,11,15,19,23,27,31,35-NONAMETHYL-2,6,10,14,18,22,26,30,34-HEXATRIACONTANONAENYL-2,5-CYCLOHEXADIENE-1,4-DIONE-2,3-DIMETHYL-5-SOLANESYL-1,4-BENZOQUINONE (three-letter code: PL9) (formula: $C_{53}H_{80}O_2$).



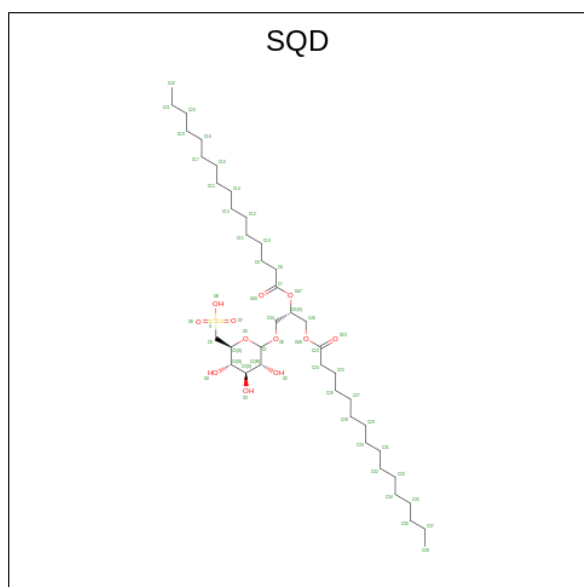
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
37	AD	1	Total 55	C 53	O 2	0
37	DD	1	Total 55	C 53	O 2	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
37	AE	1	55	53	2	0
37	DE	1	55	53	2	0
37	A1	1	55	53	2	0
37	D1	1	55	53	2	0
37	a1	1	55	53	2	0
37	d1	1	55	53	2	0
37	aD	1	55	53	2	0
37	dD	1	55	53	2	0
37	aE	1	55	53	2	0
37	dE	1	55	53	2	0

- Molecule 38 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (three-letter code: SQD) (formula: C₄₁H₇₈O₁₂S).



Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	S	
38	AD	1	46	33	12	1	0

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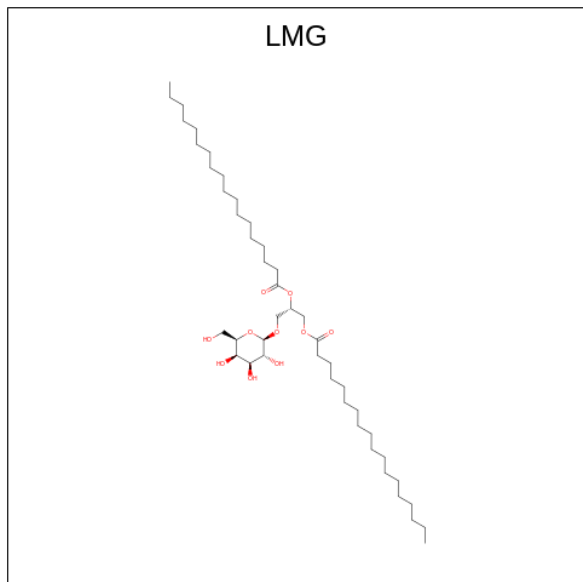
Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	S	
38	BD	1	38	25	12	1	0
38	CD	1	54	41	12	1	0
38	DD	1	34	21	12	1	0
38	LD	1	43	30	12	1	0
38	LD	1	43	30	12	1	0
38	AE	1	46	33	12	1	0
38	BE	1	38	25	12	1	0
38	CE	1	54	41	12	1	0
38	DE	1	34	21	12	1	0
38	LE	1	43	30	12	1	0
38	LE	1	43	30	12	1	0
38	A1	1	46	33	12	1	0
38	B1	1	38	25	12	1	0
38	C1	1	54	41	12	1	0
38	D1	1	34	21	12	1	0
38	L1	1	43	30	12	1	0
38	L1	1	43	30	12	1	0
38	c1	1	54	41	12	1	0
38	d1	1	34	21	12	1	0
38	h1	1	35	22	12	1	0
38	cD	1	54	41	12	1	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	S	
38	dD	1	Total 34	C 21	O 12	S 1	0
38	hD	1	Total 35	C 22	O 12	S 1	0
38	cE	1	Total 54	C 41	O 12	S 1	0
38	dE	1	Total 34	C 21	O 12	S 1	0
38	hE	1	Total 35	C 22	O 12	S 1	0

- Molecule 39 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: C₄₅H₈₆O₁₀).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
39	AD	1	Total 36	C 26	O 10	0
39	BD	1	Total 51	C 41	O 10	0
39	CD	1	Total 51	C 41	O 10	0
39	CD	1	Total 51	C 41	O 10	0
39	DD	1	Total 51	C 41	O 10	0
39	JD	1	Total 27	C 17	O 10	0

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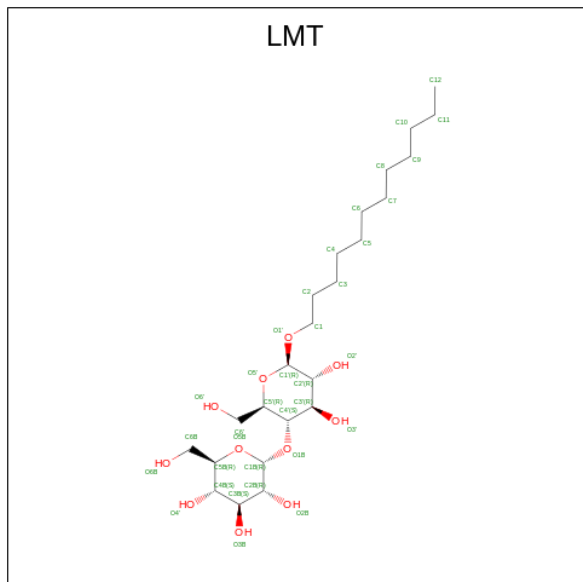
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
39	MD	1	36	26	10	0
39	TD	1	36	26	10	0
39	AE	1	36	26	10	0
39	BE	1	51	41	10	0
39	CE	1	51	41	10	0
39	CE	1	51	41	10	0
39	DE	1	51	41	10	0
39	JE	1	27	17	10	0
39	ME	1	36	26	10	0
39	TE	1	36	26	10	0
39	A1	1	36	26	10	0
39	B1	1	51	41	10	0
39	C1	1	51	41	10	0
39	C1	1	51	41	10	0
39	D1	1	51	41	10	0
39	J1	1	27	17	10	0
39	M1	1	36	26	10	0
39	T1	1	36	26	10	0
39	a1	1	51	41	10	0
39	a1	1	36	26	10	0
39	b1	1	51	41	10	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
39	d1	1	51	41	10	0
39	j1	1	27	17	10	0
39	m1	1	36	26	10	0
39	t1	1	36	26	10	0
39	y1	1	51	41	10	0
39	aD	1	51	41	10	0
39	aD	1	36	26	10	0
39	bD	1	51	41	10	0
39	dD	1	51	41	10	0
39	jD	1	27	17	10	0
39	mD	1	36	26	10	0
39	tD	1	36	26	10	0
39	yD	1	51	41	10	0
39	aE	1	51	41	10	0
39	aE	1	36	26	10	0
39	bE	1	51	41	10	0
39	dE	1	51	41	10	0
39	jE	1	27	17	10	0
39	mE	1	36	26	10	0
39	tE	1	36	26	10	0
39	yE	1	51	41	10	0

- Molecule 40 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).



Mol	Chain	Residues	Atoms			AltConf
40	AD	1	Total	C	O	0
			24	18	6	
40	AD	1	Total	C	O	0
			35	24	11	
40	BD	1	Total	C	O	0
			24	18	6	
40	BD	1	Total	C	O	0
			35	24	11	
40	BD	1	Total	C	O	0
			24	18	6	
40	CD	1	Total	C	O	0
			24	18	6	
40	DD	1	Total	C	O	0
			24	18	6	
40	DD	1	Total	C	O	0
			25	19	6	
40	DD	1	Total	C	O	0
			22	16	6	
40	AE	1	Total	C	O	0
			24	18	6	
40	AE	1	Total	C	O	0
			35	24	11	
40	BE	1	Total	C	O	0
			24	18	6	

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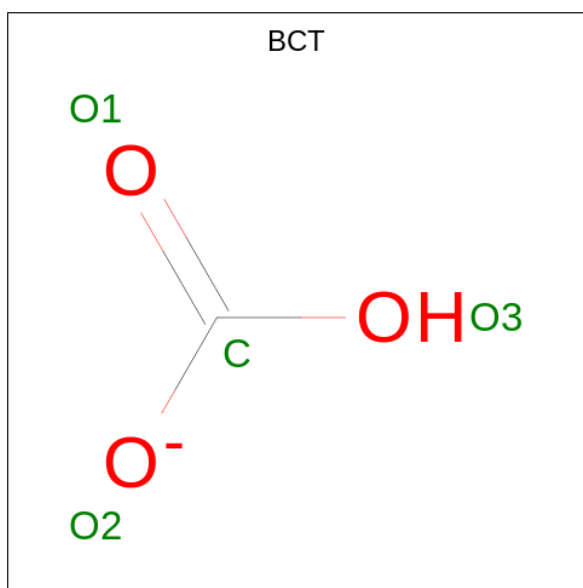
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
40	BE	1	35	24	11	0
40	BE	1	24	18	6	0
40	DE	1	24	18	6	0
40	DE	1	25	19	6	0
40	DE	1	22	16	6	0
40	A1	1	24	18	6	0
40	A1	1	35	24	11	0
40	B1	1	24	18	6	0
40	B1	1	24	18	6	0
40	B1	1	24	18	6	0
40	C1	1	24	18	6	0
40	D1	1	24	18	6	0
40	D1	1	25	19	6	0
40	D1	1	22	16	6	0
40	a1	1	35	24	11	0
40	b1	1	35	24	11	0
40	b1	1	24	18	6	0
40	b1	1	24	18	6	0
40	d1	1	24	18	6	0
40	d1	1	25	19	6	0
40	d1	1	22	16	6	0

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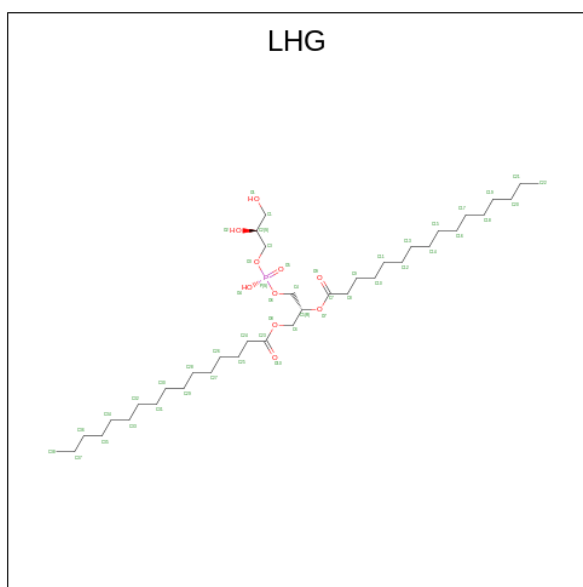
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
40	i1	1	24	18	6	0
40	j1	1	35	24	11	0
40	bD	1	35	24	11	0
40	bD	1	24	18	6	0
40	bD	1	24	18	6	0
40	cD	1	24	18	6	0
40	dD	1	24	18	6	0
40	dD	1	25	19	6	0
40	dD	1	22	16	6	0
40	iD	1	24	18	6	0
40	jD	1	35	24	11	0
40	bE	1	35	24	11	0
40	bE	1	24	18	6	0
40	bE	1	24	18	6	0
40	bE	1	24	18	6	0
40	cE	1	24	18	6	0
40	dE	1	24	18	6	0
40	dE	1	25	19	6	0
40	dE	1	22	16	6	0
40	iE	1	24	18	6	0
40	jE	1	35	24	11	0

- Molecule 41 is BICARBONATE ION (three-letter code: BCT) (formula: CHO_3).



Mol	Chain	Residues	Atoms			AltConf
41	AD	1	Total	C	O	0
			4	1	3	
41	AE	1	Total	C	O	0
			4	1	3	
41	A1	1	Total	C	O	0
			4	1	3	
41	a1	1	Total	C	O	0
			4	1	3	
41	aD	1	Total	C	O	0
			4	1	3	
41	aE	1	Total	C	O	0
			4	1	3	

- Molecule 42 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $\text{C}_{38}\text{H}_{75}\text{O}_{10}\text{P}$).



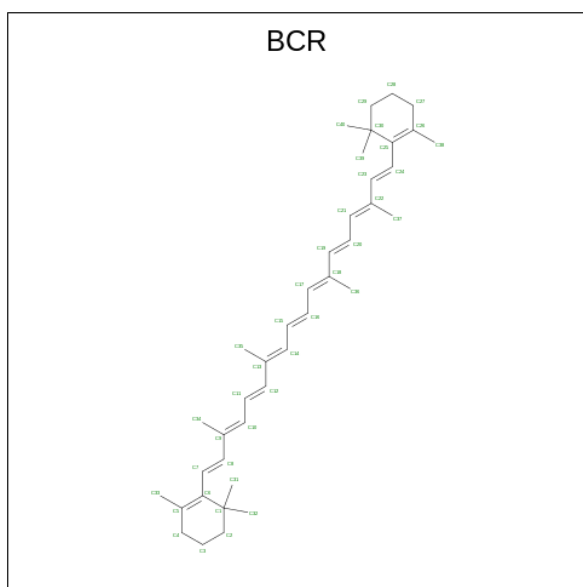
Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	P	
42	AD	1	38	27	10	1	0
42	BD	1	49	38	10	1	0
42	DD	1	49	38	10	1	0
42	DD	1	49	38	10	1	0
42	AE	1	38	27	10	1	0
42	BE	1	49	38	10	1	0
42	DE	1	49	38	10	1	0
42	DE	1	49	38	10	1	0
42	A1	1	38	27	10	1	0
42	B1	1	49	38	10	1	0
42	D1	1	49	38	10	1	0
42	D1	1	49	38	10	1	0
42	a1	1	38	27	10	1	0
42	d1	1	49	38	10	1	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	P	
42	d1	1	49	38	10	1	0
42	e1	1	40	29	10	1	0
42	l1	1	49	38	10	1	0
42	aD	1	38	27	10	1	0
42	dD	1	49	38	10	1	0
42	dD	1	49	38	10	1	0
42	eD	1	40	29	10	1	0
42	lD	1	49	38	10	1	0
42	aE	1	38	27	10	1	0
42	dE	1	49	38	10	1	0
42	dE	1	49	38	10	1	0
42	eE	1	40	29	10	1	0
42	lE	1	49	38	10	1	0

- Molecule 43 is BETA-CAROTENE (three-letter code: BCR) (formula: C₄₀H₅₆) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
43	BD	1	Total C 40 40	0
43	BD	1	Total C 40 40	0
43	BD	1	Total C 40 40	0
43	CD	1	Total C 40 40	0
43	CD	1	Total C 40 40	0
43	CD	1	Total C 40 40	0
43	DD	1	Total C 40 40	0
43	ID	1	Total C 40 40	0
43	XD	1	Total C 40 40	0
43	ZD	1	Total C 40 40	0
43	BE	1	Total C 40 40	0
43	BE	1	Total C 40 40	0
43	BE	1	Total C 40 40	0
43	CE	1	Total C 40 40	0

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Mol	Chain	Residues	Atoms	AltConf
43	CE	1	Total C 40 40	0
43	DE	1	Total C 40 40	0
43	IE	1	Total C 40 40	0
43	XE	1	Total C 40 40	0
43	ZE	1	Total C 40 40	0
43	ZE	1	Total C 40 40	0
43	B1	1	Total C 40 40	0
43	B1	1	Total C 40 40	0
43	B1	1	Total C 40 40	0
43	C1	1	Total C 40 40	0
43	C1	1	Total C 40 40	0
43	D1	1	Total C 40 40	0
43	I1	1	Total C 40 40	0
43	X1	1	Total C 40 40	0
43	Z1	1	Total C 40 40	0
43	Z1	1	Total C 40 40	0
43	b1	1	Total C 40 40	0
43	b1	1	Total C 40 40	0
43	b1	1	Total C 40 40	0
43	c1	1	Total C 40 40	0
43	c1	1	Total C 40 40	0

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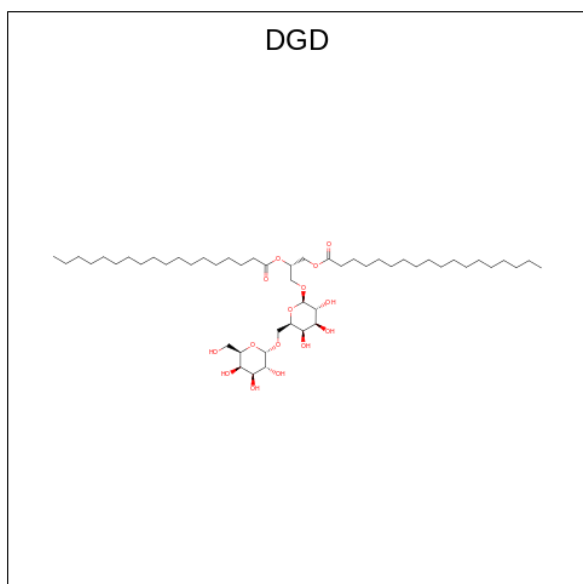
Mol	Chain	Residues	Atoms	AltConf
43	d1	1	Total C 40 40	0
43	h1	1	Total C 40 40	0
43	i1	1	Total C 40 40	0
43	k1	1	Total C 40 40	0
43	z1	1	Total C 40 40	0
43	bD	1	Total C 40 40	0
43	bD	1	Total C 40 40	0
43	bD	1	Total C 40 40	0
43	cD	1	Total C 40 40	0
43	cD	1	Total C 40 40	0
43	dD	1	Total C 40 40	0
43	hD	1	Total C 40 40	0
43	iD	1	Total C 40 40	0
43	kD	1	Total C 40 40	0
43	zD	1	Total C 40 40	0
43	bE	1	Total C 40 40	0
43	bE	1	Total C 40 40	0
43	bE	1	Total C 40 40	0
43	cE	1	Total C 40 40	0
43	cE	1	Total C 40 40	0
43	dE	1	Total C 40 40	0

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Mol	Chain	Residues	Atoms	AltConf
43	hE	1	Total C 40 40	0
43	iE	1	Total C 40 40	0
43	kE	1	Total C 40 40	0
43	zE	1	Total C 40 40	0

- Molecule 44 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: $C_{51}H_{96}O_{15}$).



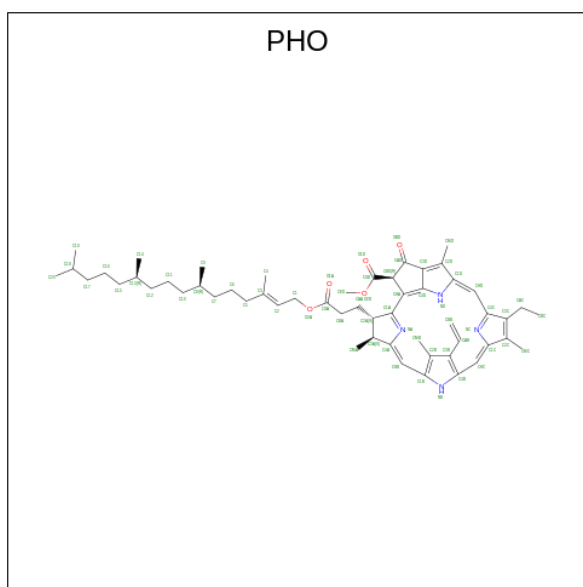
Mol	Chain	Residues	Atoms	AltConf
44	CD	1	Total C O 47 32 15	0
44	CD	1	Total C O 62 47 15	0
44	HD	1	Total C O 62 47 15	0
44	JD	1	Total C O 62 47 15	0
44	CE	1	Total C O 47 32 15	0
44	CE	1	Total C O 62 47 15	0
44	HE	1	Total C O 62 47 15	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
44	JE	1	62	47	15	0
44	C1	1	47	32	15	0
44	C1	1	62	47	15	0
44	H1	1	62	47	15	0
44	J1	1	62	47	15	0
44	c1	1	47	32	15	0
44	c1	1	62	47	15	0
44	c1	1	62	47	15	0
44	h1	1	62	47	15	0
44	cD	1	47	32	15	0
44	cD	1	62	47	15	0
44	cD	1	62	47	15	0
44	hD	1	62	47	15	0
44	cE	1	47	32	15	0
44	cE	1	62	47	15	0
44	cE	1	62	47	15	0
44	hE	1	62	47	15	0

- Molecule 45 is PHEOPHYTIN A (three-letter code: PHO) (formula: $C_{55}H_{74}N_4O_5$).

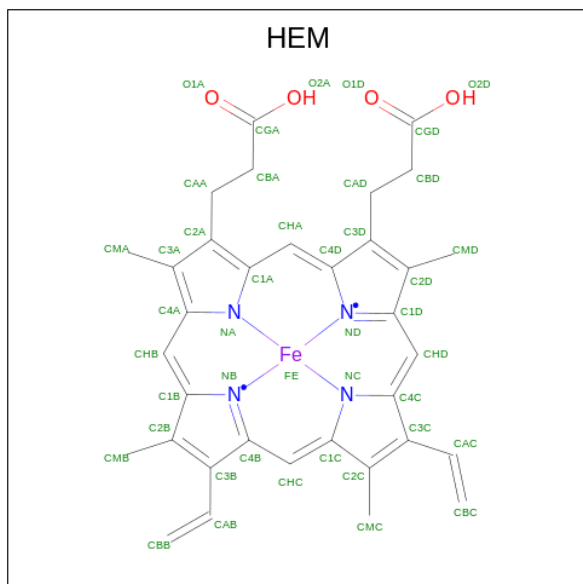


Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
45	DD	1	Total 64	C 55	N 4	O 5	0
45	DD	1	Total 58	C 49	N 4	O 5	0
45	DE	1	Total 64	C 55	N 4	O 5	0
45	DE	1	Total 64	C 55	N 4	O 5	0
45	A1	1	Total 64	C 55	N 4	O 5	0
45	D1	1	Total 64	C 55	N 4	O 5	0
45	a1	1	Total 52	C 43	N 4	O 5	0
45	d1	1	Total 64	C 55	N 4	O 5	0
45	aD	1	Total 64	C 55	N 4	O 5	0
45	dD	1	Total 52	C 43	N 4	O 5	0
45	aE	1	Total 56	C 47	N 4	O 5	0
45	dE	1	Total 56	C 47	N 4	O 5	0

- Molecule 46 is FE (II) ION (three-letter code: FE2) (formula: Fe).

Mol	Chain	Residues	Atoms	AltConf
46	DD	1	Total Fe 1 1	0
46	DE	1	Total Fe 1 1	0
46	D1	1	Total Fe 1 1	0
46	d1	1	Total Fe 1 1	0
46	dD	1	Total Fe 1 1	0
46	dE	1	Total Fe 1 1	0

- Molecule 47 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula: $C_{34}H_{32}FeN_4O_4$).



Mol	Chain	Residues	Atoms	AltConf
47	ED	1	Total C Fe N O 43 34 1 4 4	0
47	VD	1	Total C Fe N O 43 34 1 4 4	0
47	EE	1	Total C Fe N O 43 34 1 4 4	0
47	VE	1	Total C Fe N O 43 34 1 4 4	0
47	E1	1	Total C Fe N O 43 34 1 4 4	0

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Mol	Chain	Residues	Atoms				AltConf	
			Total	C	Fe	N		O
47	V1	1	43	34	1	4	4	0
47	f1	1	43	34	1	4	4	0
47	v1	1	43	34	1	4	4	0
47	fD	1	43	34	1	4	4	0
47	vD	1	43	34	1	4	4	0
47	fE	1	43	34	1	4	4	0
47	vE	1	43	34	1	4	4	0

- Molecule 48 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
48	KD	1	Total 1	Ca 1	0
48	UD	1	Total 1	Ca 1	0
48	VD	1	Total 1	Ca 1	0
48	KE	1	Total 1	Ca 1	0
48	UE	1	Total 1	Ca 1	0
48	VE	1	Total 1	Ca 1	0
48	K1	1	Total 1	Ca 1	0
48	U1	1	Total 1	Ca 1	0
48	V1	1	Total 1	Ca 1	0
48	k1	1	Total 1	Ca 1	0
48	u1	1	Total 1	Ca 1	0
48	v1	1	Total 1	Ca 1	0

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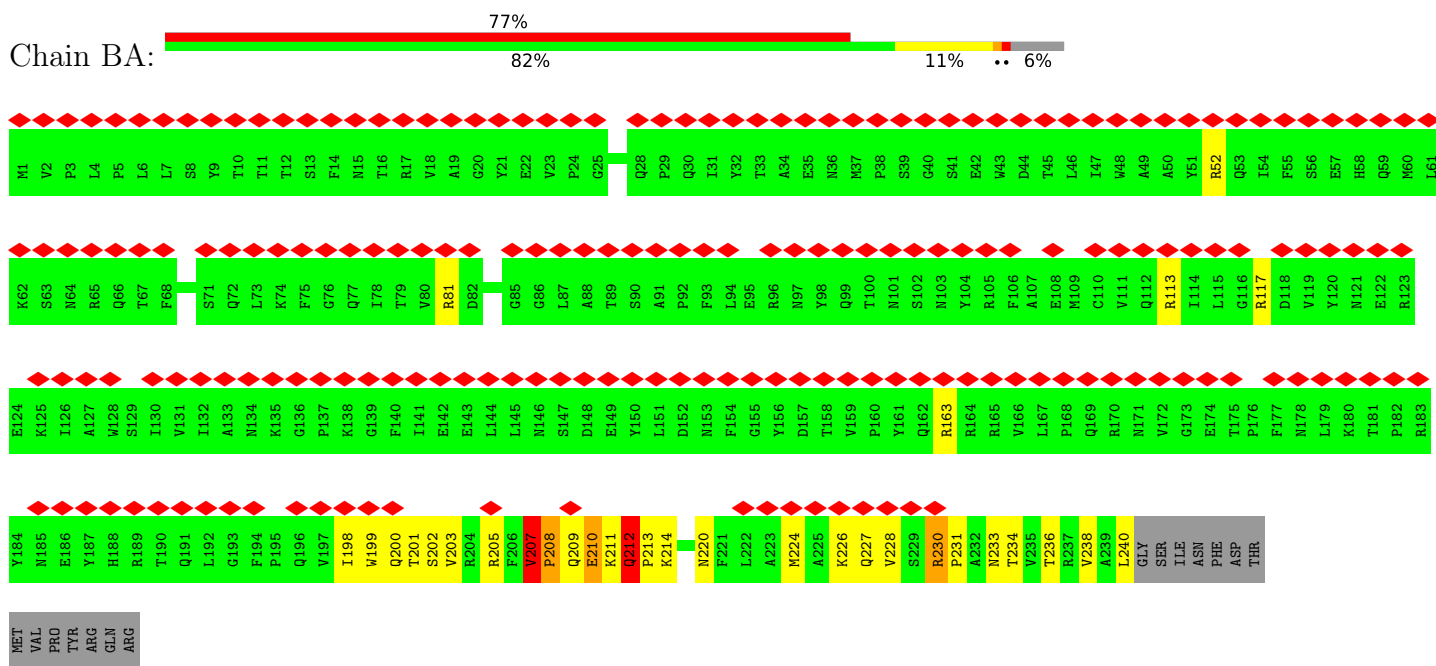
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Mol	Chain	Residues	Atoms		AltConf
48	kD	1	Total 1	Ca 1	0
48	uD	1	Total 1	Ca 1	0
48	vD	1	Total 1	Ca 1	0
48	kE	1	Total 1	Ca 1	0
48	uE	1	Total 1	Ca 1	0
48	vE	1	Total 1	Ca 1	0

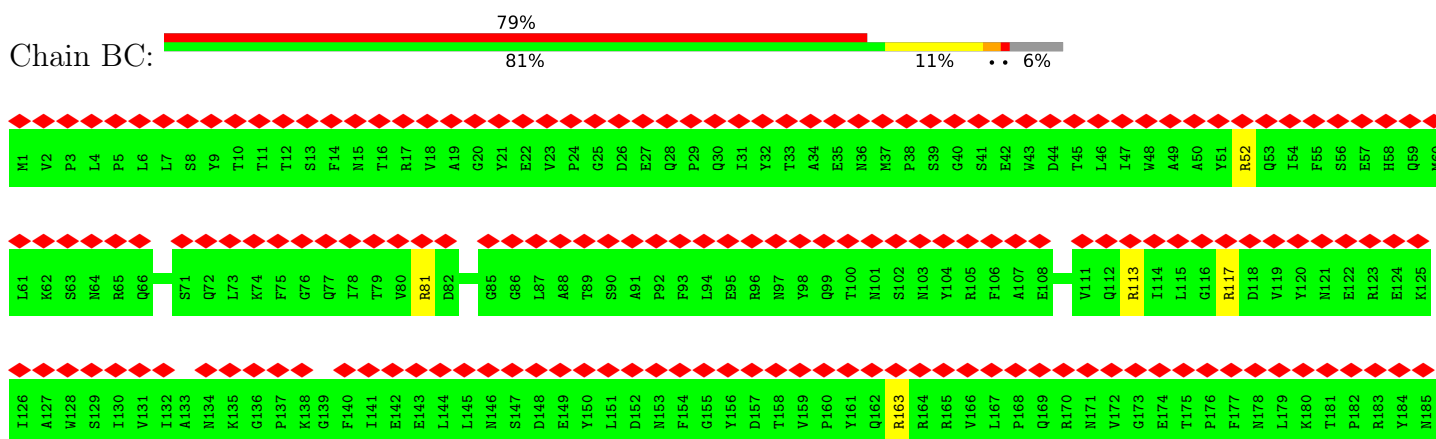
3 Residue-property plots

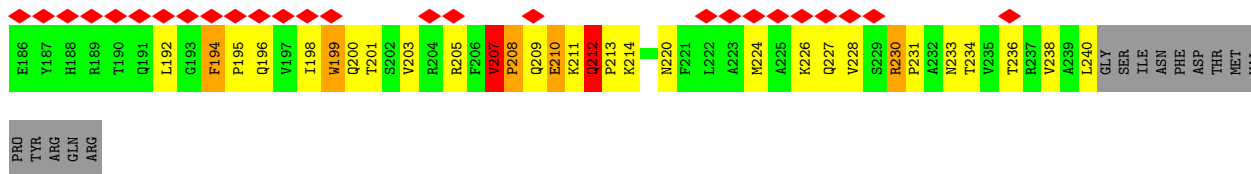
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: LRC1

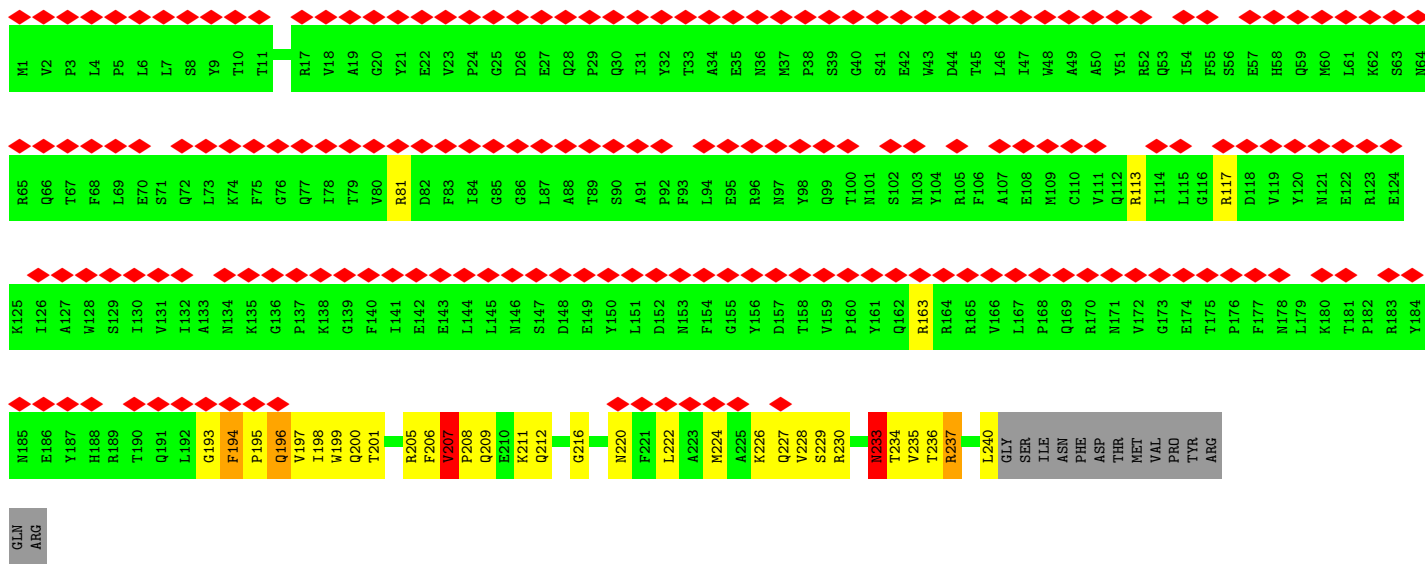
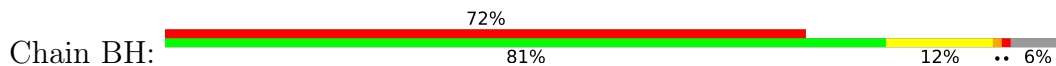


• Molecule 1: LRC1

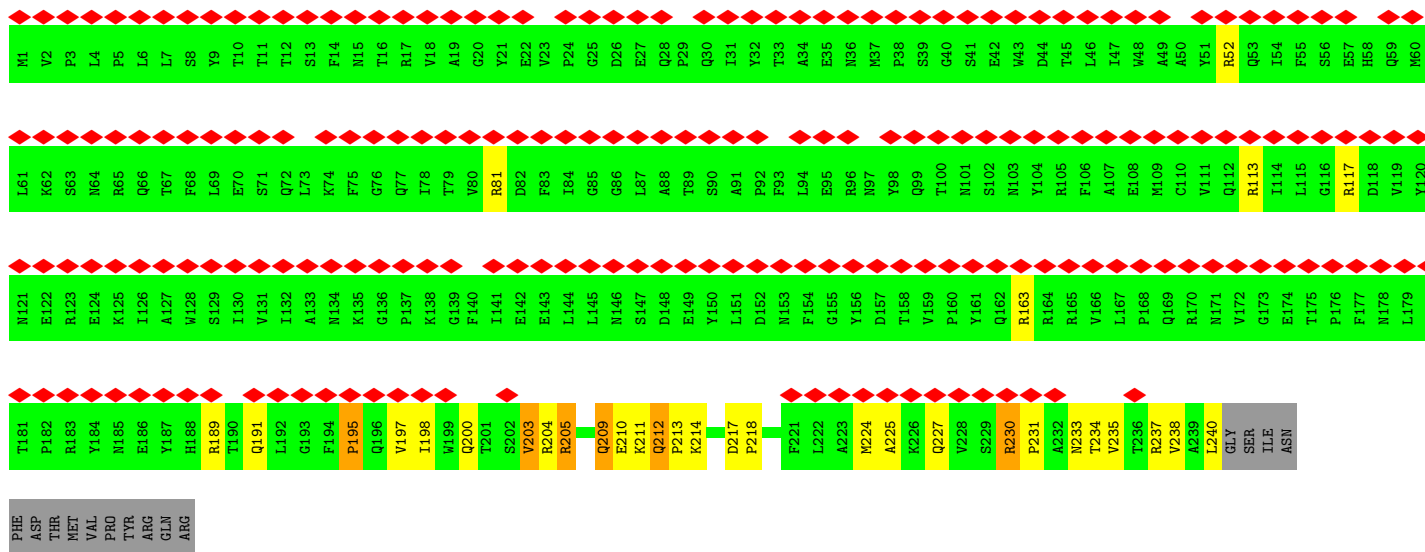
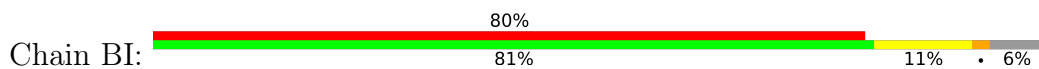




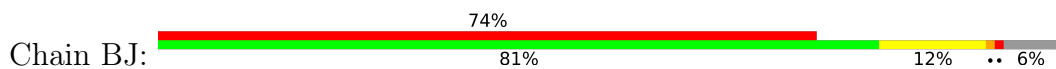
• Molecule 1: LRC1

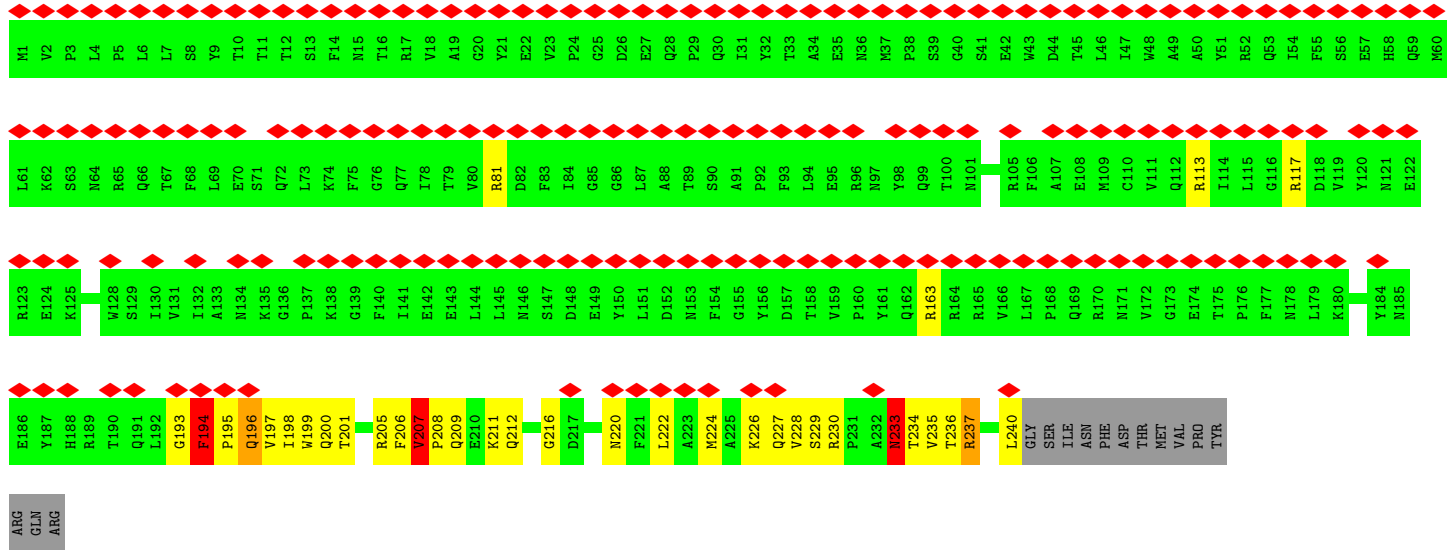


• Molecule 1: LRC1

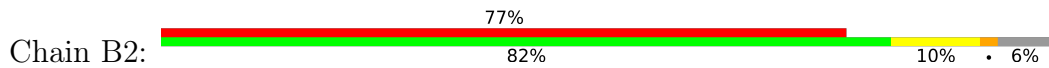


• Molecule 1: LRC1

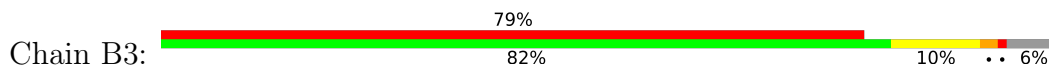


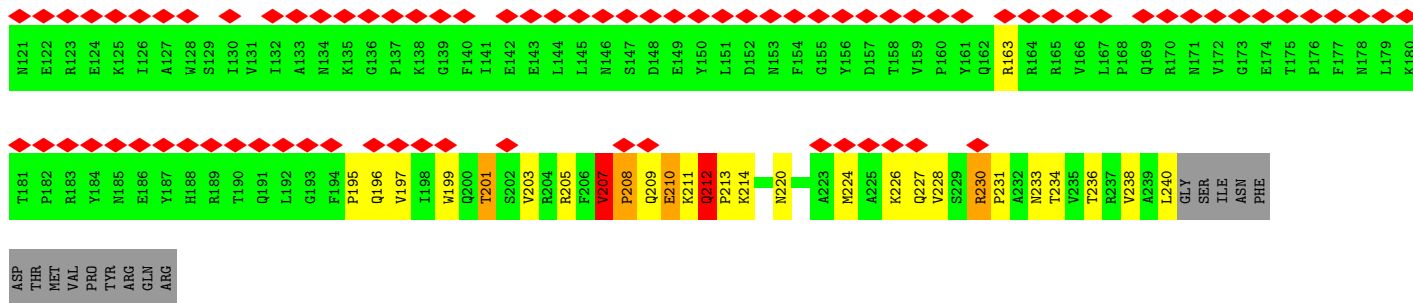


• Molecule 1: LRC1

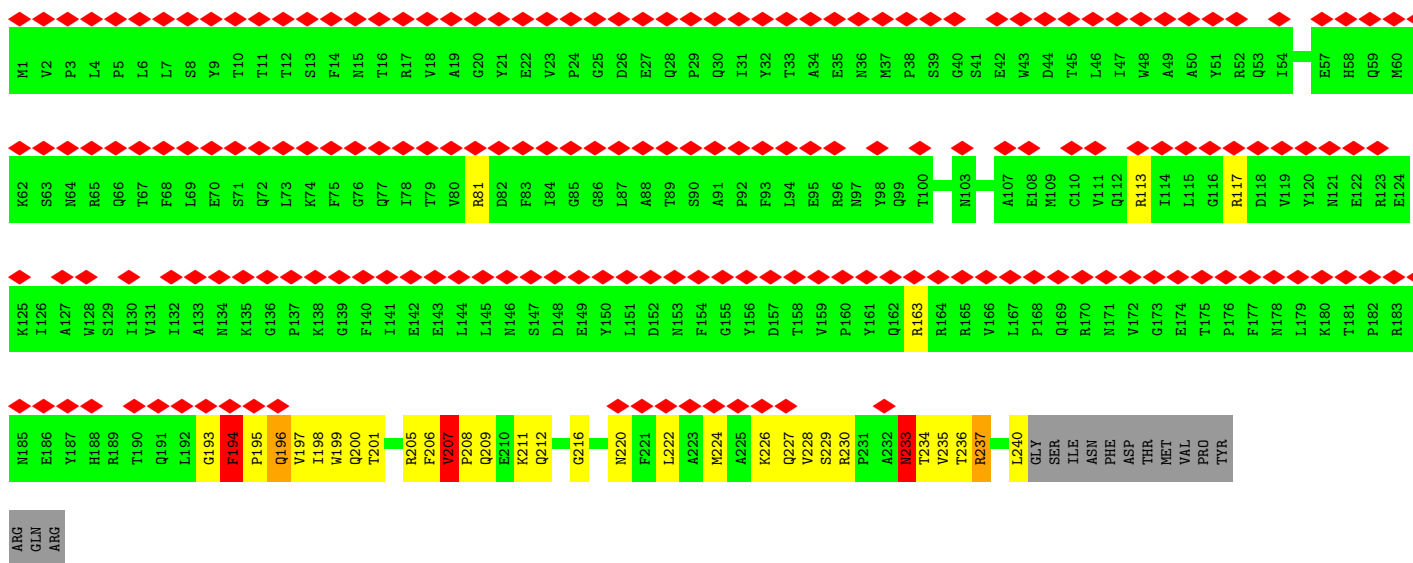
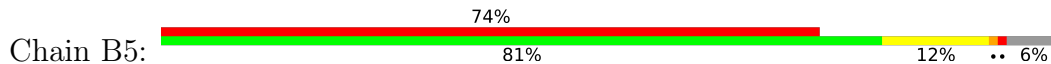


• Molecule 1: LRC1

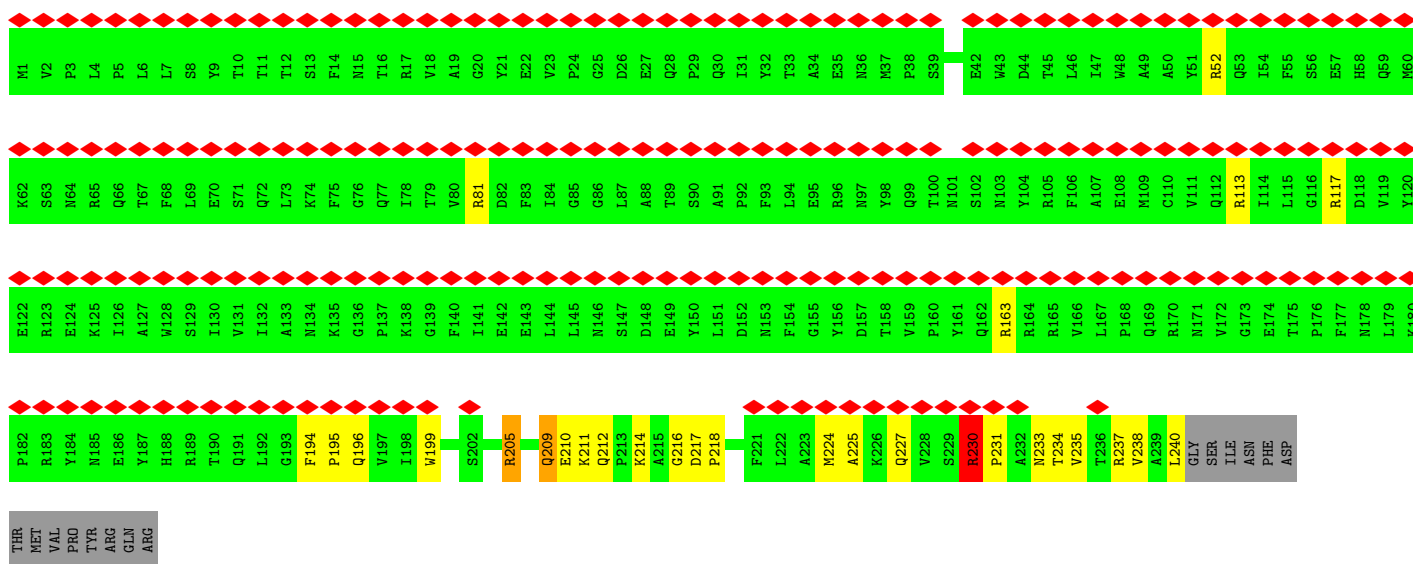
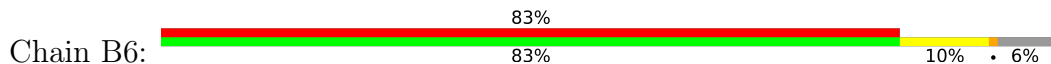




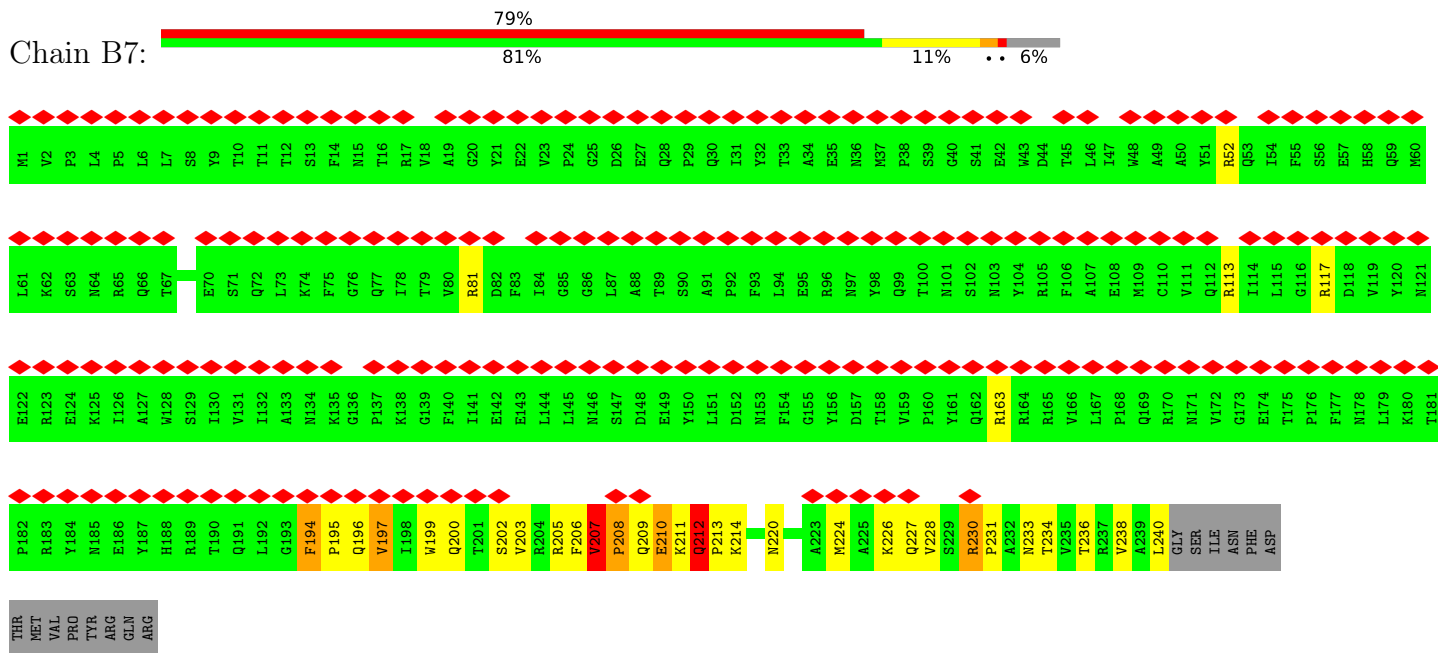
• Molecule 1: LRC1



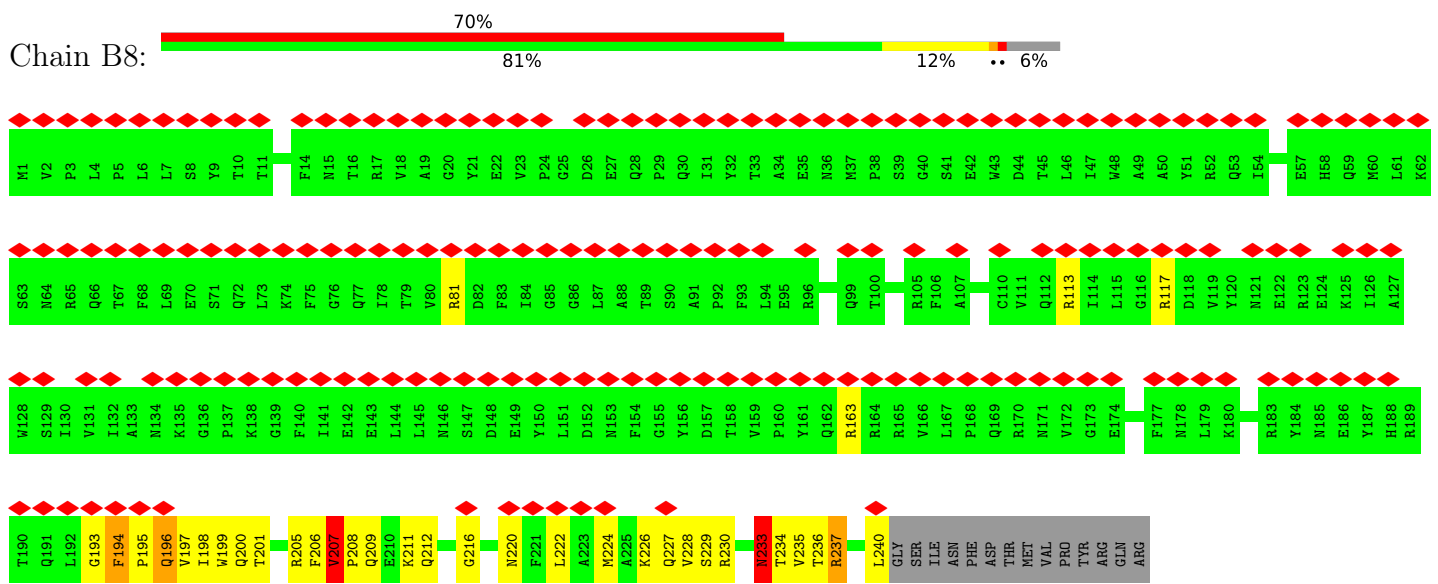
• Molecule 1: LRC1



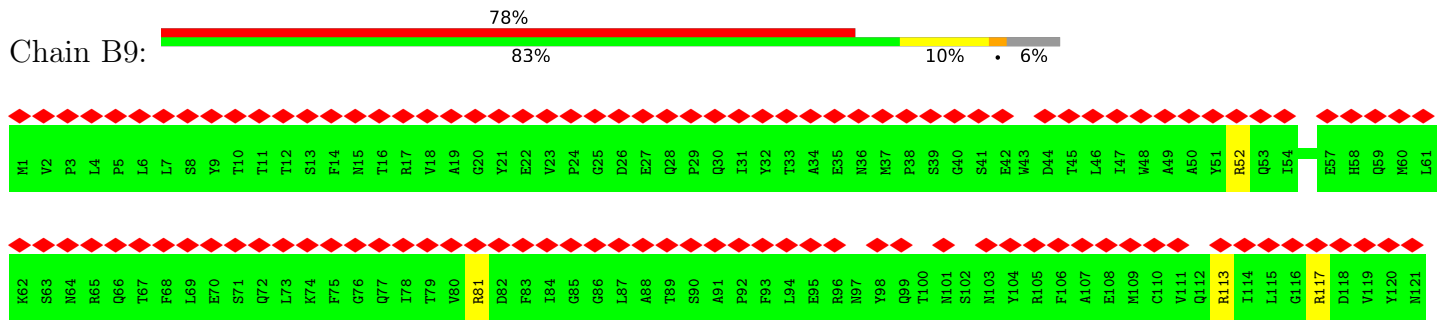
• Molecule 1: LRC1

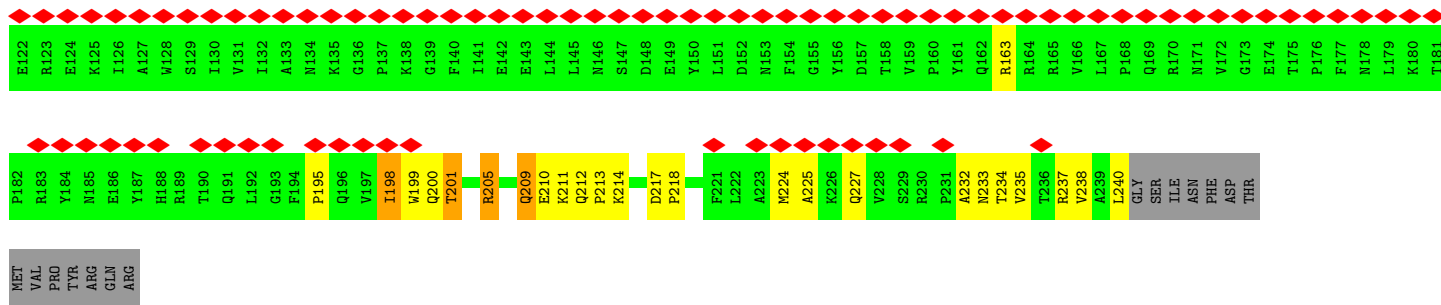


• Molecule 1: LRC1

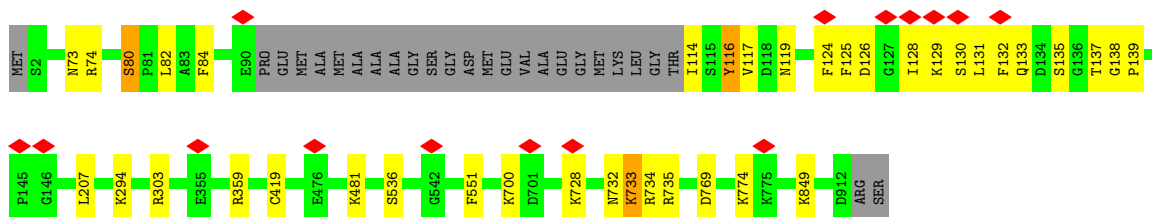


• Molecule 1: LRC1

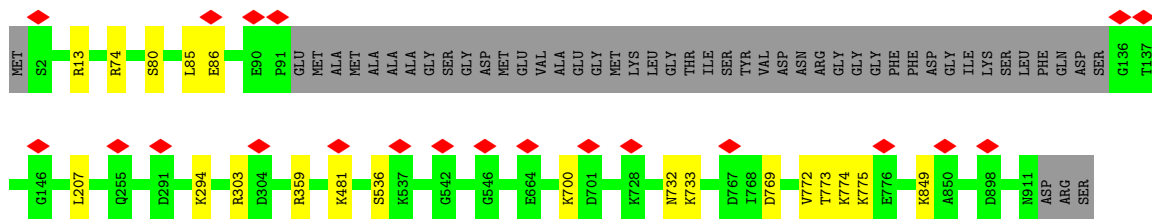




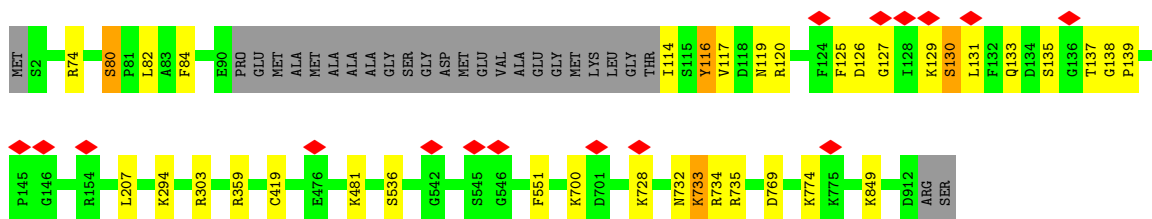
• Molecule 2: LCM



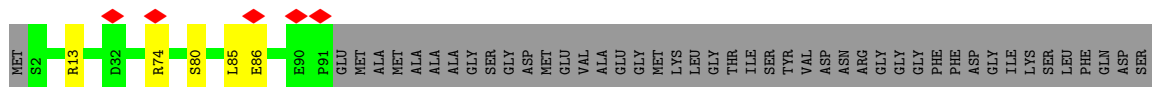
• Molecule 2: LCM

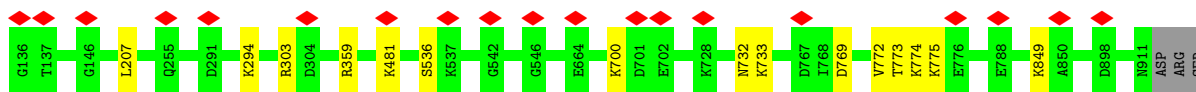


• Molecule 2: LCM

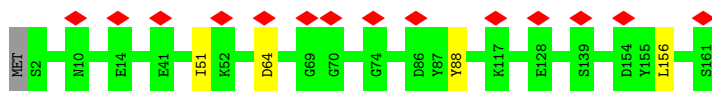


• Molecule 2: LCM

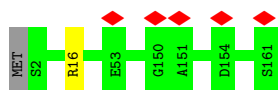




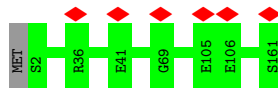
- Molecule 3: Allophycocyanin alpha chain



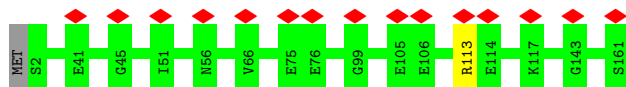
- Molecule 3: Allophycocyanin alpha chain



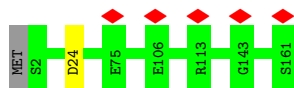
- Molecule 3: Allophycocyanin alpha chain



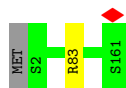
- Molecule 3: Allophycocyanin alpha chain



- Molecule 3: Allophycocyanin alpha chain

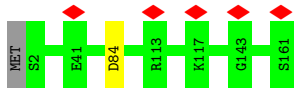


- Molecule 3: Allophycocyanin alpha chain



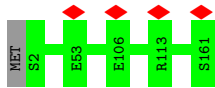
- Molecule 3: Allophycocyanin alpha chain

Chain JF:  99%



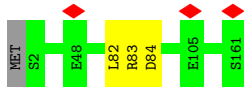
- Molecule 3: Allophycocyanin alpha chain

Chain LF:  99%



- Molecule 3: Allophycocyanin alpha chain

Chain XF:  98%



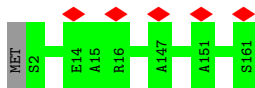
- Molecule 3: Allophycocyanin alpha chain

Chain ZF:  99%



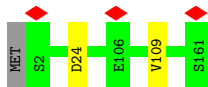
- Molecule 3: Allophycocyanin alpha chain

Chain AG:  99%




- Molecule 3: Allophycocyanin alpha chain

Chain GG:  98%



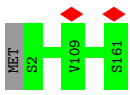
- Molecule 3: Allophycocyanin alpha chain

Chain IG:  90%



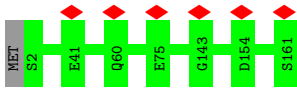
- Molecule 3: Allophycocyanin alpha chain

Chain KG:  99%



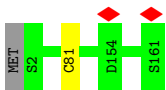
- Molecule 3: Allophycocyanin alpha chain

Chain NG:  99%



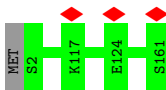
- Molecule 3: Allophycocyanin alpha chain

Chain PG:  99%



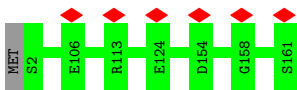
- Molecule 3: Allophycocyanin alpha chain

Chain RG:  99%



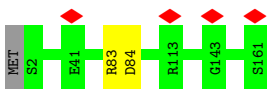
- Molecule 3: Allophycocyanin alpha chain

Chain TG:  99%



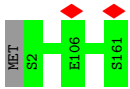
- Molecule 3: Allophycocyanin alpha chain

Chain JK:  98%

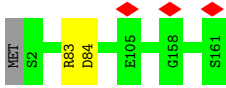


- Molecule 3: Allophycocyanin alpha chain

Chain LK:  99%



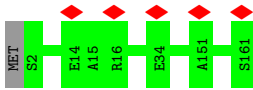
- Molecule 3: Allophycocyanin alpha chain



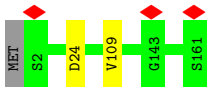
- Molecule 3: Allophycocyanin alpha chain



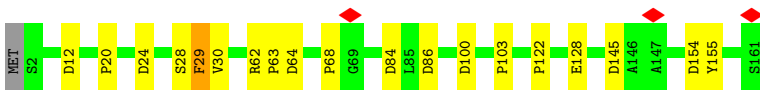
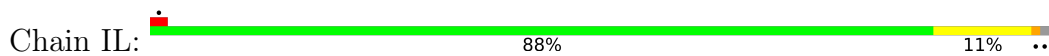
- Molecule 3: Allophycocyanin alpha chain



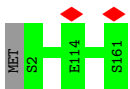
- Molecule 3: Allophycocyanin alpha chain



- Molecule 3: Allophycocyanin alpha chain

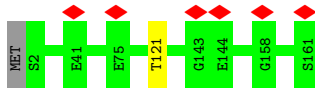


- Molecule 3: Allophycocyanin alpha chain



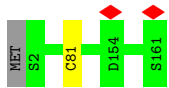
- Molecule 3: Allophycocyanin alpha chain

Chain NL:  99%



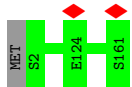
- Molecule 3: Allophycocyanin alpha chain

Chain PL:  99%



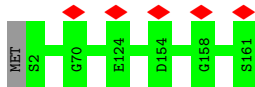
- Molecule 3: Allophycocyanin alpha chain

Chain RL:  99%



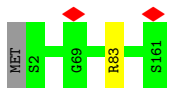
- Molecule 3: Allophycocyanin alpha chain

Chain TL:  99%



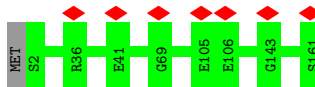
- Molecule 3: Allophycocyanin alpha chain

Chain Z4:  99%



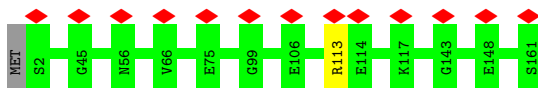
- Molecule 3: Allophycocyanin alpha chain

Chain S4:  99%



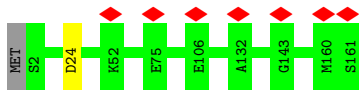
- Molecule 3: Allophycocyanin alpha chain

Chain V4:  99%



- Molecule 3: Allophycocyanin alpha chain

Chain X4:  99%



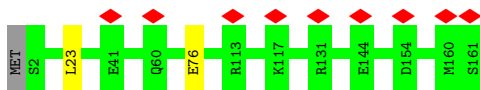
- Molecule 3: Allophycocyanin alpha chain

Chain s4:  97%



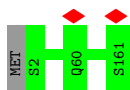
- Molecule 3: Allophycocyanin alpha chain

Chain u4:  98%



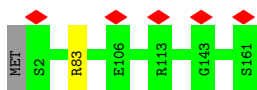
- Molecule 3: Allophycocyanin alpha chain

Chain w4:  99%



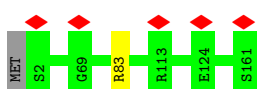
- Molecule 3: Allophycocyanin alpha chain

Chain o4:  99%



- Molecule 3: Allophycocyanin alpha chain

Chain q4:  99%



- Molecule 3: Allophycocyanin alpha chain

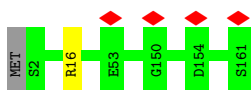
Chain y4:  98%



- Molecule 3: Allophycocyanin alpha chain



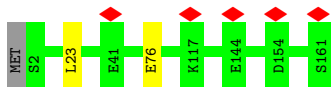
- Molecule 3: Allophycocyanin alpha chain



- Molecule 3: Allophycocyanin alpha chain



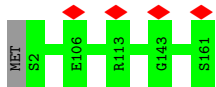
- Molecule 3: Allophycocyanin alpha chain



- Molecule 3: Allophycocyanin alpha chain

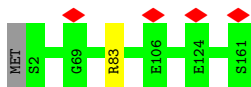


- Molecule 3: Allophycocyanin alpha chain



- Molecule 3: Allophycocyanin alpha chain

Chain qB:  99%



- Molecule 3: Allophycocyanin alpha chain

Chain yB:  98%



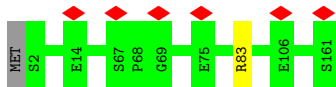
- Molecule 3: Allophycocyanin alpha chain

Chain bF:  99%



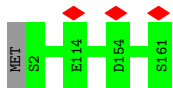
- Molecule 3: Allophycocyanin alpha chain

Chain dF:  99%



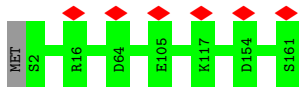
- Molecule 3: Allophycocyanin alpha chain

Chain fF:  99%



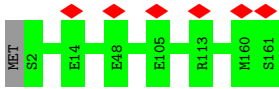
- Molecule 3: Allophycocyanin alpha chain

Chain iF:  99%

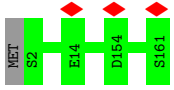


- Molecule 3: Allophycocyanin alpha chain

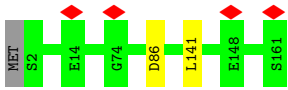
Chain kF:  99%



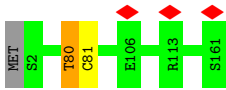
- Molecule 3: Allophycocyanin alpha chain



- Molecule 3: Allophycocyanin alpha chain



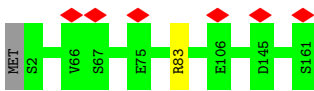
- Molecule 3: Allophycocyanin alpha chain



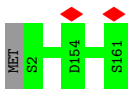
- Molecule 3: Allophycocyanin alpha chain



- Molecule 3: Allophycocyanin alpha chain



- Molecule 3: Allophycocyanin alpha chain



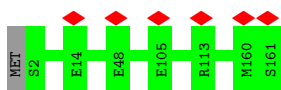
- Molecule 3: Allophycocyanin alpha chain

Chain iK:  99%



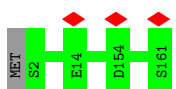
- Molecule 3: Allophycocyanin alpha chain

Chain kK:  99%



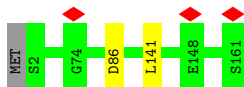
- Molecule 3: Allophycocyanin alpha chain

Chain 9K:  99%



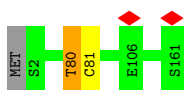
- Molecule 3: Allophycocyanin alpha chain

Chain 4L:  98%



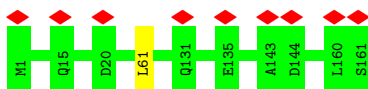
- Molecule 3: Allophycocyanin alpha chain

Chain 6L:  98%



- Molecule 4: Allophycocyanin beta chain

Chain PB:  99%



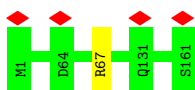
- Molecule 4: Allophycocyanin beta chain

Chain RB:  99%



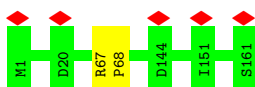
- Molecule 4: Allophycocyanin beta chain

Chain TB:  99%



- Molecule 4: Allophycocyanin beta chain

Chain WB:  99%



- Molecule 4: Allophycocyanin beta chain

Chain YB:  99%



- Molecule 4: Allophycocyanin beta chain

Chain IF:  97%



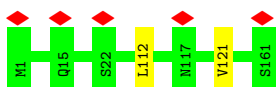
- Molecule 4: Allophycocyanin beta chain

Chain KF:  98%



- Molecule 4: Allophycocyanin beta chain

Chain MF:  99%



- Molecule 4: Allophycocyanin beta chain

Chain YF:  98%



- Molecule 4: Allophycocyanin beta chain



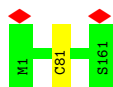
- Molecule 4: Allophycocyanin beta chain



- Molecule 4: Allophycocyanin beta chain



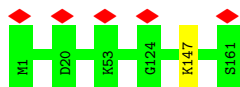
- Molecule 4: Allophycocyanin beta chain



- Molecule 4: Allophycocyanin beta chain

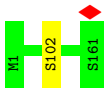


- Molecule 4: Allophycocyanin beta chain



- Molecule 4: Allophycocyanin beta chain

Chain UG:  99%



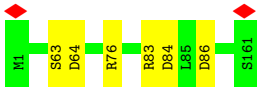
- Molecule 4: Allophycocyanin beta chain

Chain WG:  98%



- Molecule 4: Allophycocyanin beta chain

Chain IK:  96%



- Molecule 4: Allophycocyanin beta chain

Chain KK:  98%



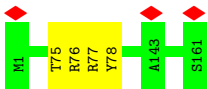
- Molecule 4: Allophycocyanin beta chain

Chain MK:  99%



- Molecule 4: Allophycocyanin beta chain

Chain YK:  98%



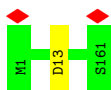
- Molecule 4: Allophycocyanin beta chain

Chain HL:  100%



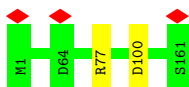
- Molecule 4: Allophycocyanin beta chain

Chain JL:  99%



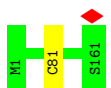
- Molecule 4: Allophycocyanin beta chain

Chain LL:  99%



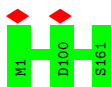
- Molecule 4: Allophycocyanin beta chain

Chain ML:  99%



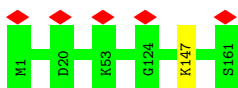
- Molecule 4: Allophycocyanin beta chain

Chain OL:  100%



- Molecule 4: Allophycocyanin beta chain

Chain SL:  99%



- Molecule 4: Allophycocyanin beta chain

Chain UL:  99%

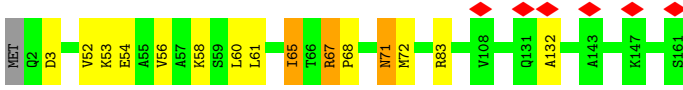
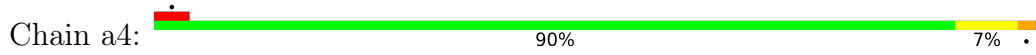


- Molecule 4: Allophycocyanin beta chain

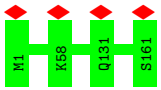
Chain WL:  98%



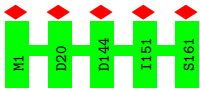
- Molecule 4: Allophycocyanin beta chain



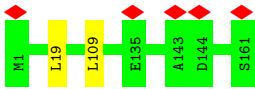
- Molecule 4: Allophycocyanin beta chain



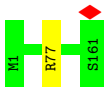
- Molecule 4: Allophycocyanin beta chain



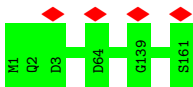
- Molecule 4: Allophycocyanin beta chain



- Molecule 4: Allophycocyanin beta chain



- Molecule 4: Allophycocyanin beta chain



- Molecule 4: Allophycocyanin beta chain

Chain p4:  100%



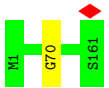
- Molecule 4: Allophycocyanin beta chain

Chain r4:  100%



- Molecule 4: Allophycocyanin beta chain

Chain x4:  99%



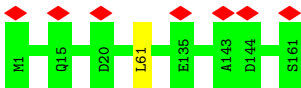
- Molecule 4: Allophycocyanin beta chain

Chain z4:  100%



- Molecule 4: Allophycocyanin beta chain

Chain P4:  99%



- Molecule 4: Allophycocyanin beta chain

Chain R4:  99%



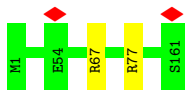
- Molecule 4: Allophycocyanin beta chain

Chain aB:  91% 6% ..



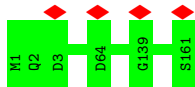
- Molecule 4: Allophycocyanin beta chain

Chain tB:  99%



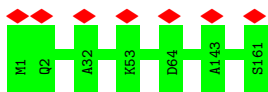
- Molecule 4: Allophycocyanin beta chain

Chain vB:  100%



- Molecule 4: Allophycocyanin beta chain

Chain pB:  100%



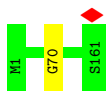
- Molecule 4: Allophycocyanin beta chain

Chain rB:  100%



- Molecule 4: Allophycocyanin beta chain

Chain xB:  99%



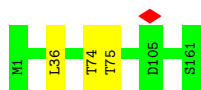
- Molecule 4: Allophycocyanin beta chain

Chain zB:  100%

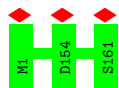


- Molecule 4: Allophycocyanin beta chain

Chain aF:  98%



- Molecule 4: Allophycocyanin beta chain



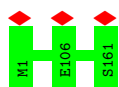
- Molecule 4: Allophycocyanin beta chain



- Molecule 4: Allophycocyanin beta chain



- Molecule 4: Allophycocyanin beta chain



- Molecule 4: Allophycocyanin beta chain

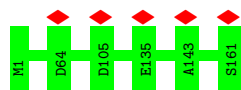


- Molecule 4: Allophycocyanin beta chain



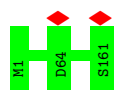
- Molecule 4: Allophycocyanin beta chain

Chain 1G:  100%



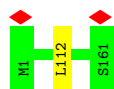
• Molecule 4: Allophycocyanin beta chain

Chain 5G:  100%



• Molecule 4: Allophycocyanin beta chain

Chain 7G:  99%



• Molecule 4: Allophycocyanin beta chain

Chain aK:  98%



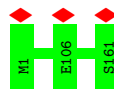
• Molecule 4: Allophycocyanin beta chain

Chain cK:  100%



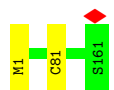
• Molecule 4: Allophycocyanin beta chain

Chain eK:  100%



• Molecule 4: Allophycocyanin beta chain

Chain hK:  99%



- Molecule 4: Allophycocyanin beta chain

Chain jK:  100%



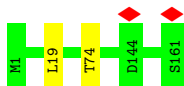
- Molecule 4: Allophycocyanin beta chain

Chain iK:  100%



- Molecule 4: Allophycocyanin beta chain

Chain nK:  99%



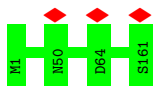
- Molecule 4: Allophycocyanin beta chain

Chain 1L:  98%



- Molecule 4: Allophycocyanin beta chain

Chain 5L:  100%



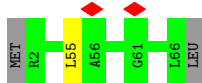
- Molecule 4: Allophycocyanin beta chain

Chain 7L:  99%

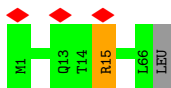


- Molecule 5: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

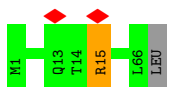
Chain UB:  96%



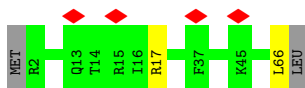
- Molecule 5: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core



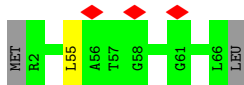
- Molecule 5: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core



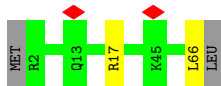
- Molecule 5: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core



- Molecule 5: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core



- Molecule 5: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

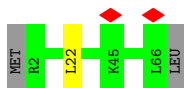


- Molecule 5: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core



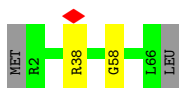
- Molecule 5: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain 2G:  96%



- Molecule 5: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain 8G:  94%



- Molecule 5: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain 3K:  94%



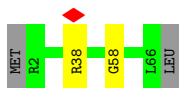
- Molecule 5: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain 2L:  96%



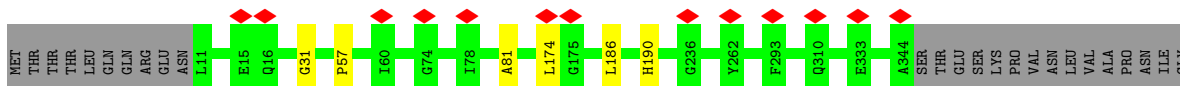
- Molecule 5: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain 8L:  94%



- Molecule 6: Photosystem II protein D1

Chain AD:  91% 7%

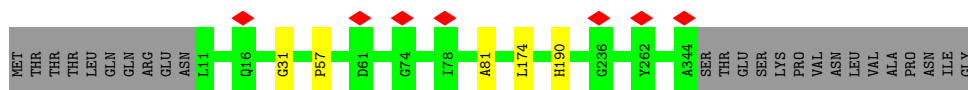


- Molecule 6: Photosystem II protein D1

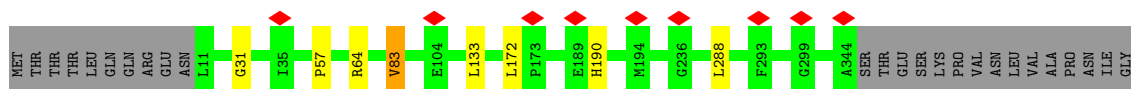
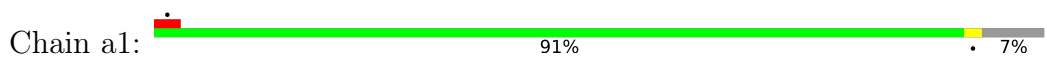
Chain AE:  91% 7%



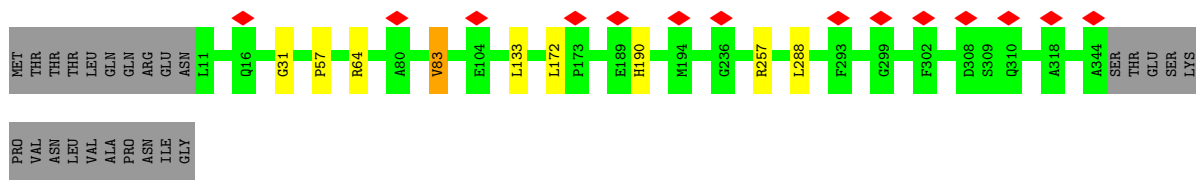
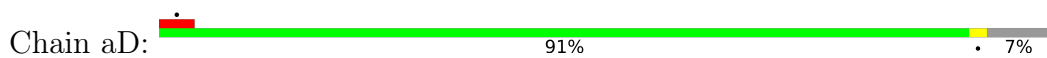
• Molecule 6: Photosystem II protein D1



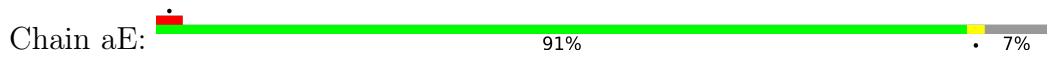
• Molecule 6: Photosystem II protein D1



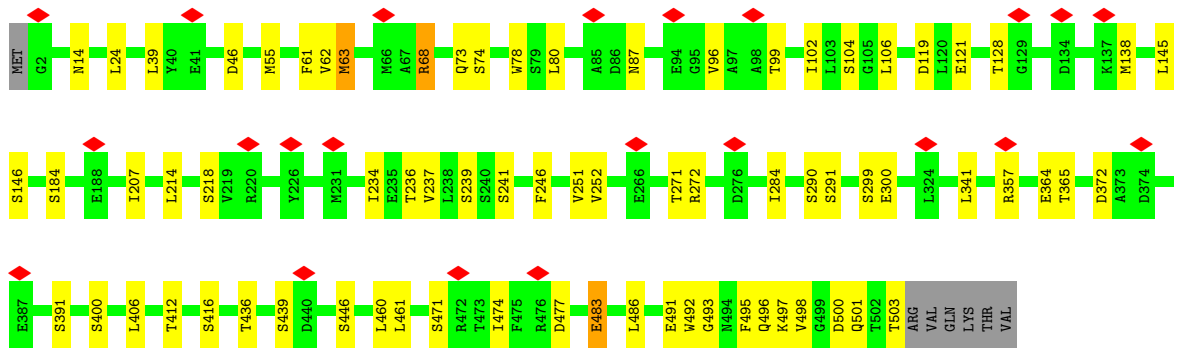
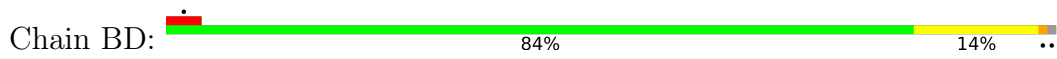
• Molecule 6: Photosystem II protein D1



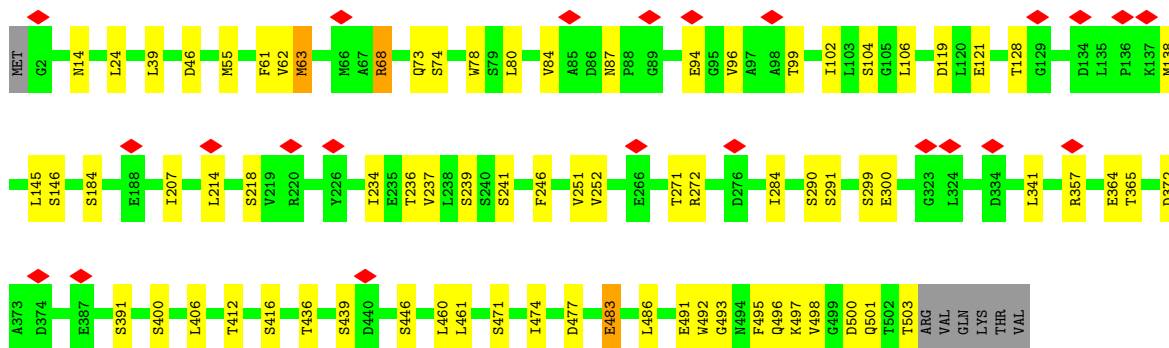
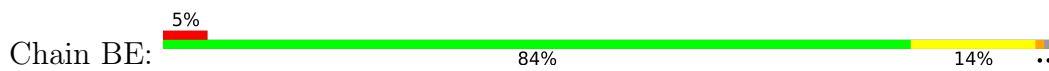
• Molecule 6: Photosystem II protein D1



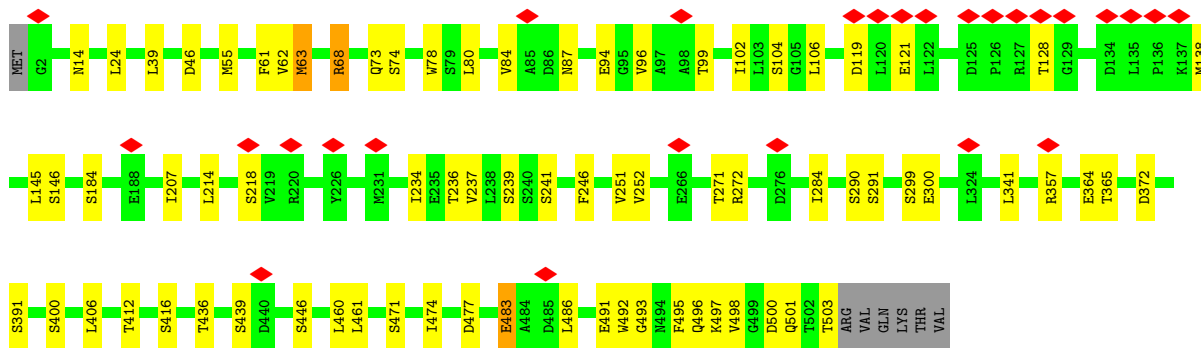
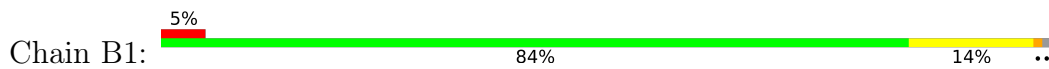
• Molecule 7: Photosystem II CP47 reaction center protein



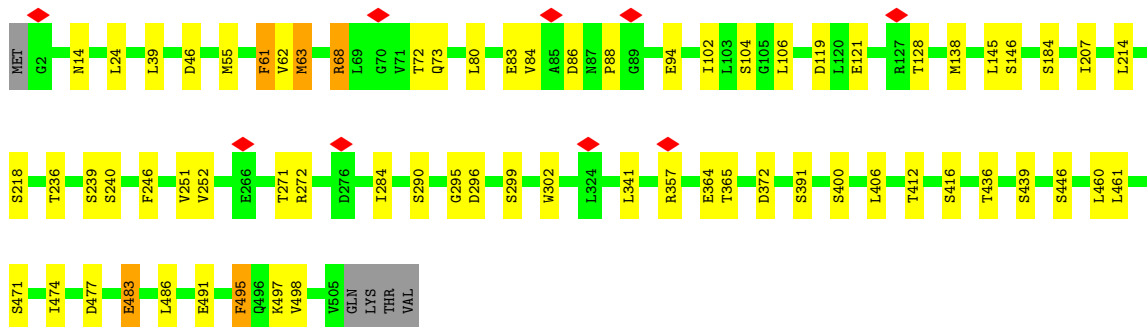
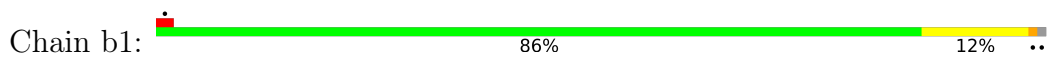
• Molecule 7: Photosystem II CP47 reaction center protein



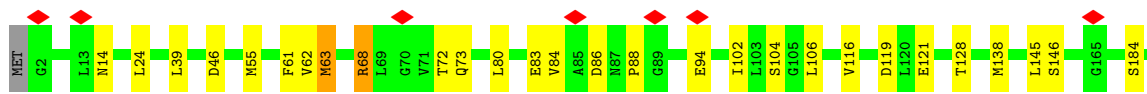
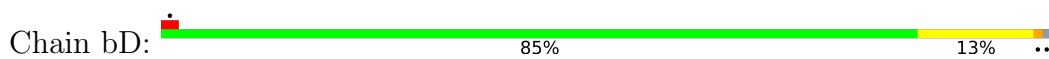
• Molecule 7: Photosystem II CP47 reaction center protein

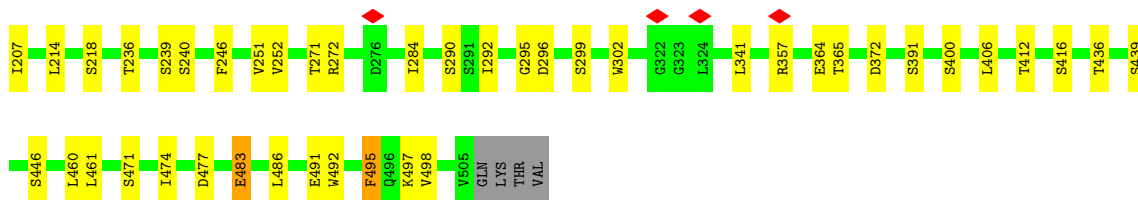


• Molecule 7: Photosystem II CP47 reaction center protein

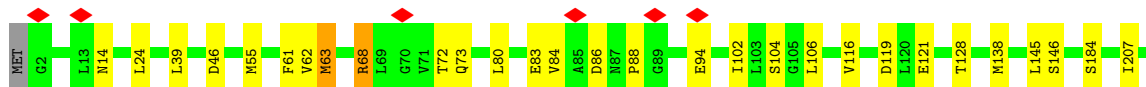
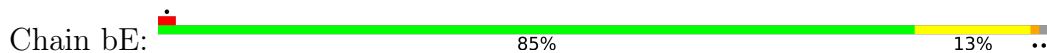


• Molecule 7: Photosystem II CP47 reaction center protein

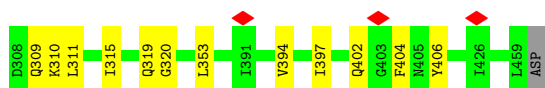
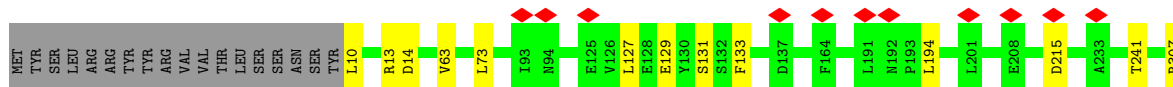




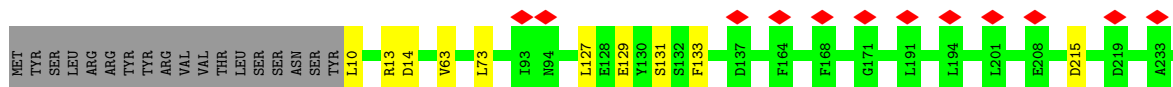
• Molecule 7: Photosystem II CP47 reaction center protein



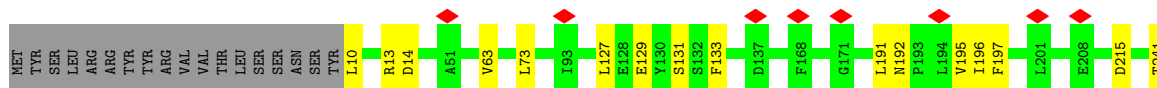
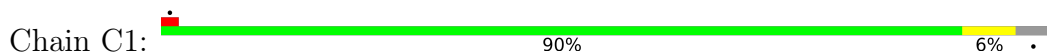
• Molecule 8: Photosystem II CP43 reaction center protein



• Molecule 8: Photosystem II CP43 reaction center protein

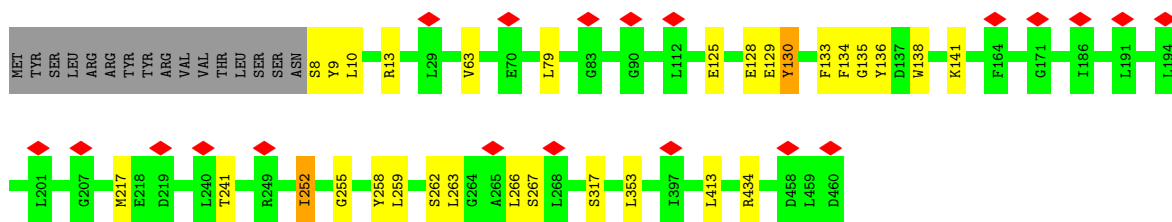


• Molecule 8: Photosystem II CP43 reaction center protein

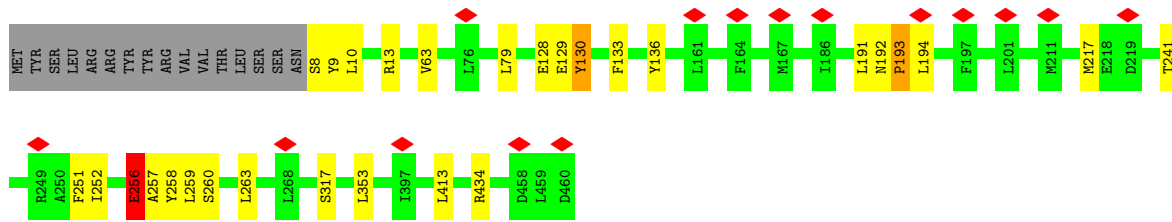




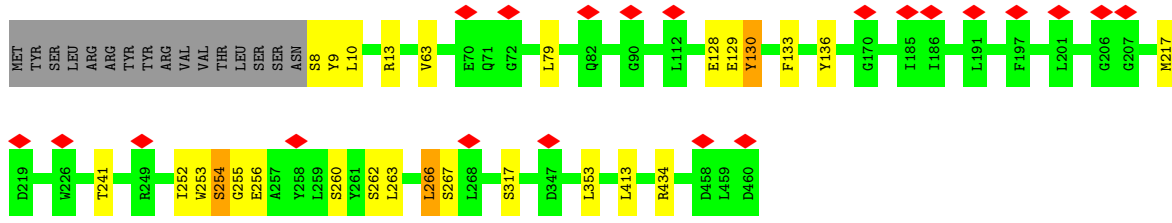
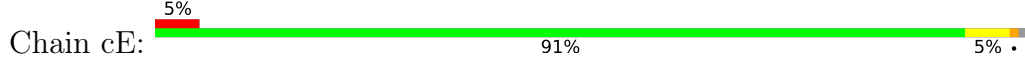
• Molecule 8: Photosystem II CP43 reaction center protein



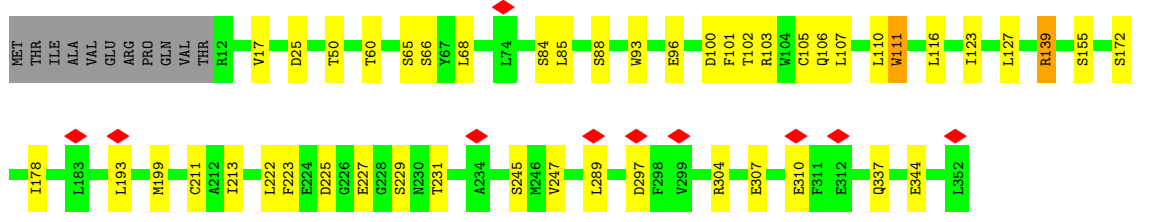
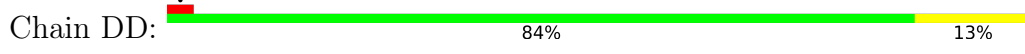
• Molecule 8: Photosystem II CP43 reaction center protein



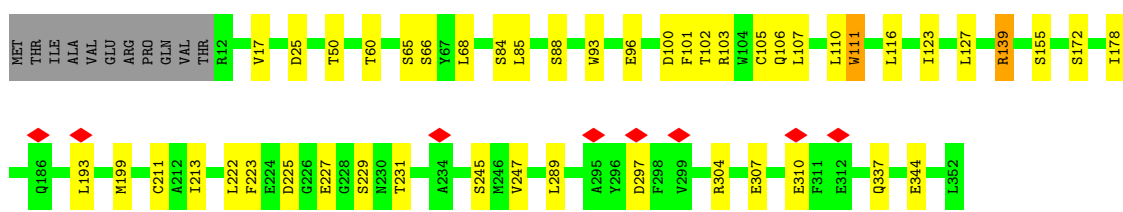
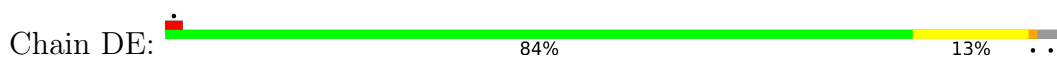
• Molecule 8: Photosystem II CP43 reaction center protein



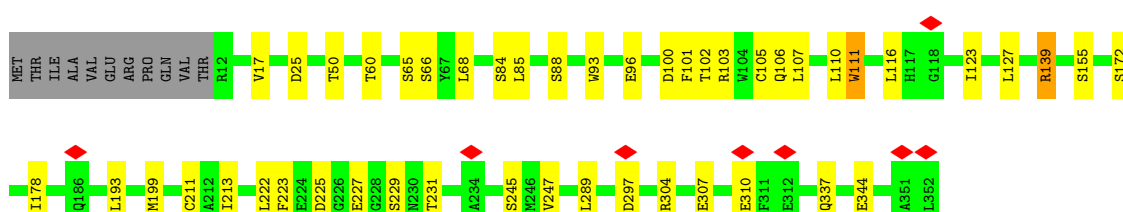
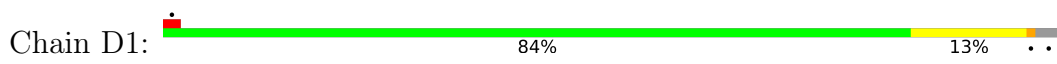
• Molecule 9: Photosystem II D2 protein



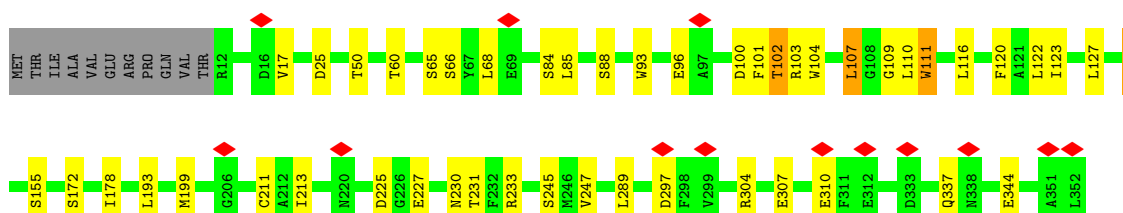
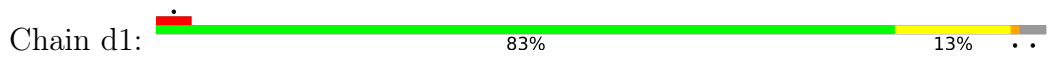
• Molecule 9: Photosystem II D2 protein



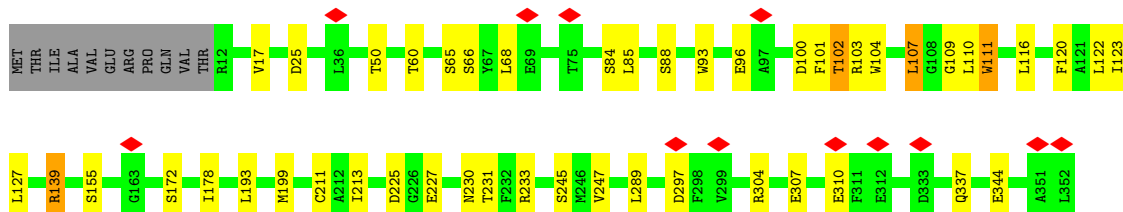
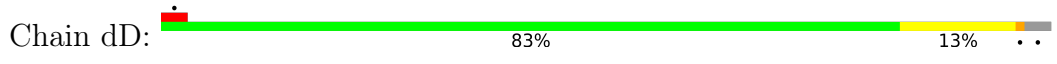
• Molecule 9: Photosystem II D2 protein



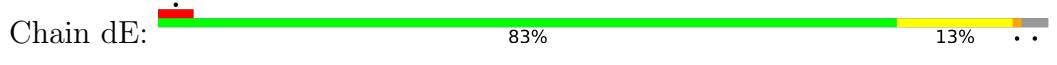
• Molecule 9: Photosystem II D2 protein



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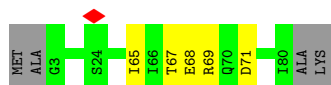




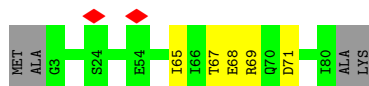
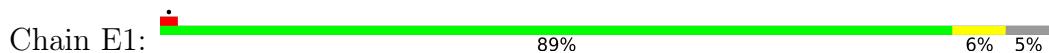
• Molecule 10: Cytochrome b559 subunit alpha



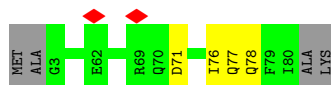
• Molecule 10: Cytochrome b559 subunit alpha



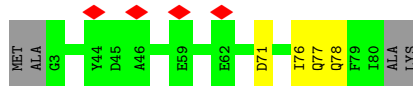
• Molecule 10: Cytochrome b559 subunit alpha



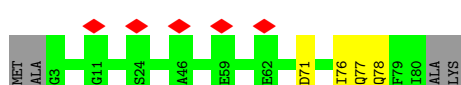
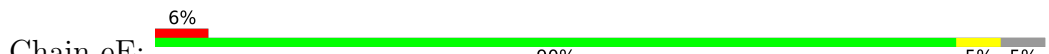
• Molecule 10: Cytochrome b559 subunit alpha



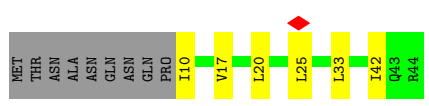
• Molecule 10: Cytochrome b559 subunit alpha



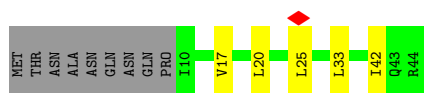
• Molecule 10: Cytochrome b559 subunit alpha



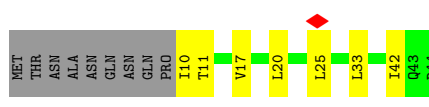
• Molecule 11: Cytochrome b559 subunit beta



● Molecule 11: Cytochrome b559 subunit beta



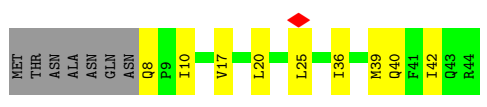
● Molecule 11: Cytochrome b559 subunit beta



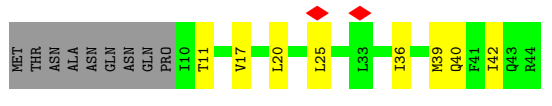
● Molecule 11: Cytochrome b559 subunit beta



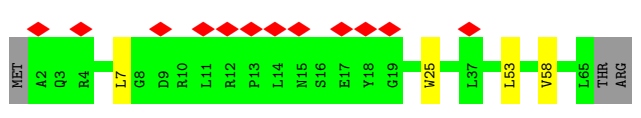
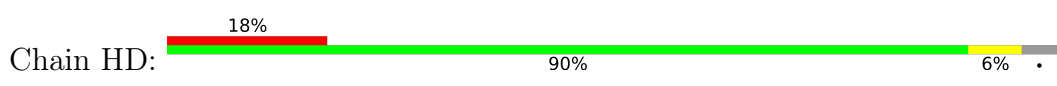
● Molecule 11: Cytochrome b559 subunit beta



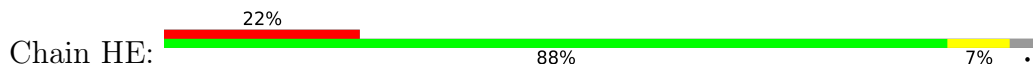
● Molecule 11: Cytochrome b559 subunit beta



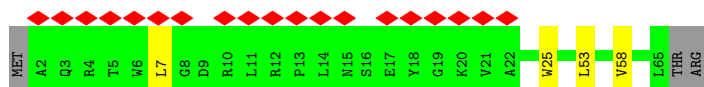
● Molecule 12: Photosystem II reaction center protein H



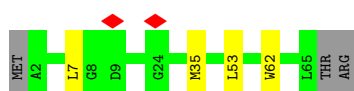
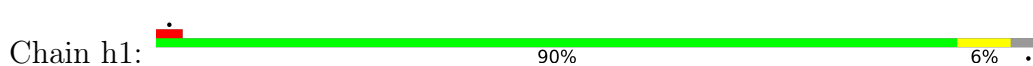
• Molecule 12: Photosystem II reaction center protein H



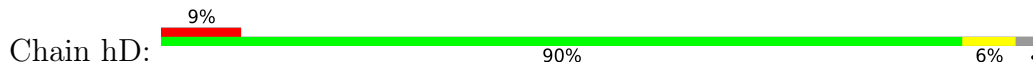
• Molecule 12: Photosystem II reaction center protein H



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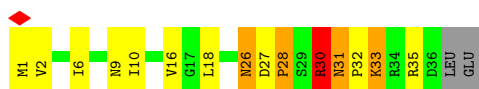
• Molecule 12: Photosystem II reaction center protein H



• Molecule 12: Photosystem II reaction center protein H



• Molecule 13: Photosystem II reaction center protein I

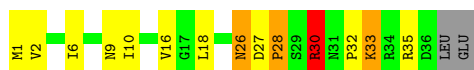


• Molecule 13: Photosystem II reaction center protein I





• Molecule 13: Photosystem II reaction center protein I



• Molecule 13: Photosystem II reaction center protein I



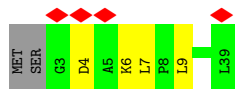
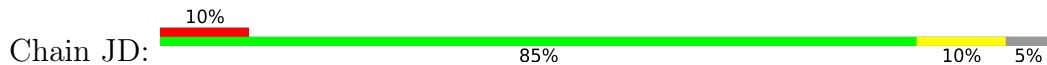
• Molecule 13: Photosystem II reaction center protein I



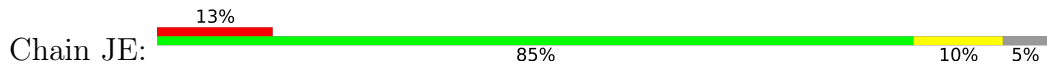
• Molecule 13: Photosystem II reaction center protein I



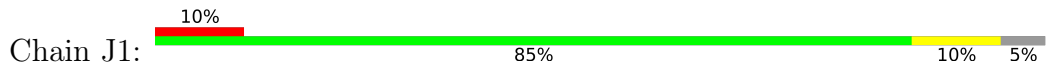
• Molecule 14: Photosystem II reaction center protein J

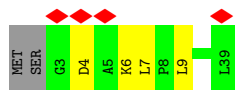


• Molecule 14: Photosystem II reaction center protein J

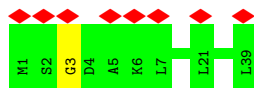


• Molecule 14: Photosystem II reaction center protein J

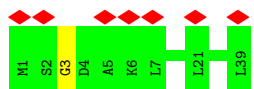




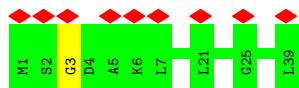
- Molecule 14: Photosystem II reaction center protein J



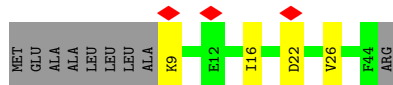
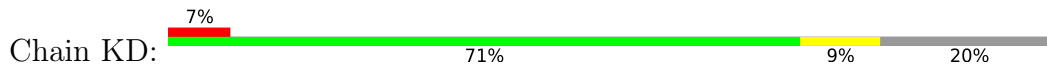
- Molecule 14: Photosystem II reaction center protein J



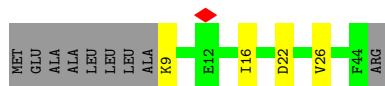
- Molecule 14: Photosystem II reaction center protein J



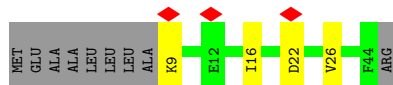
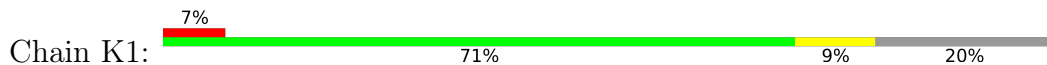
- Molecule 15: Photosystem II reaction center protein K



- Molecule 15: Photosystem II reaction center protein K



- Molecule 15: Photosystem II reaction center protein K



- Molecule 15: Photosystem II reaction center protein K



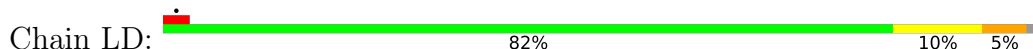
● Molecule 15: Photosystem II reaction center protein K



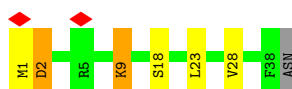
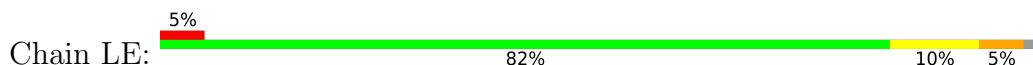
● Molecule 15: Photosystem II reaction center protein K



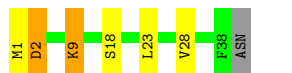
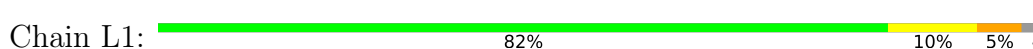
● Molecule 16: Photosystem II reaction center protein L



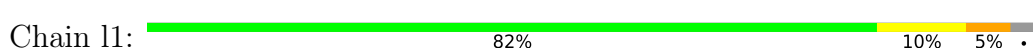
● Molecule 16: Photosystem II reaction center protein L




● Molecule 16: Photosystem II reaction center protein L



● Molecule 16: Photosystem II reaction center protein L




● Molecule 16: Photosystem II reaction center protein L

Chain ID:  82% 10% 5%



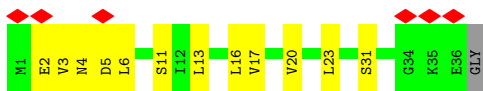
- Molecule 16: Photosystem II reaction center protein L

Chain IE:  82% 10% 5%



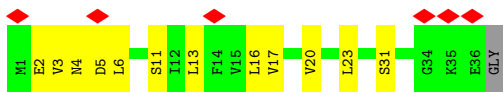
- Molecule 17: Photosystem II reaction center protein M

Chain MD:  16% 65% 32%



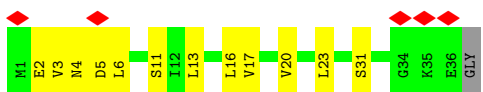
- Molecule 17: Photosystem II reaction center protein M

Chain ME:  16% 65% 32%



- Molecule 17: Photosystem II reaction center protein M

Chain M1:  14% 65% 32%



- Molecule 17: Photosystem II reaction center protein M

Chain m1:  14% 54% 43%



- Molecule 17: Photosystem II reaction center protein M

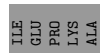
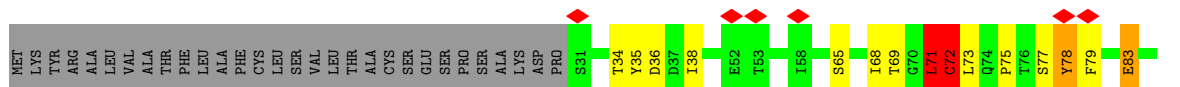
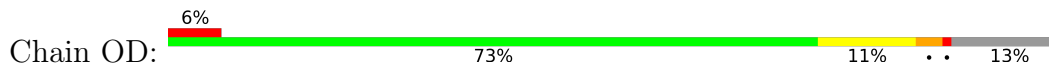
Chain mD:  16% 54% 43%



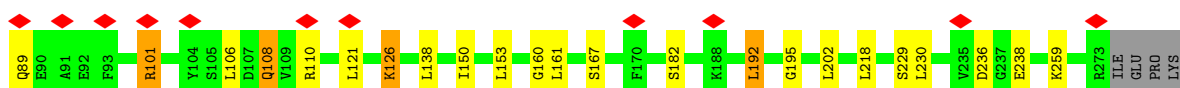
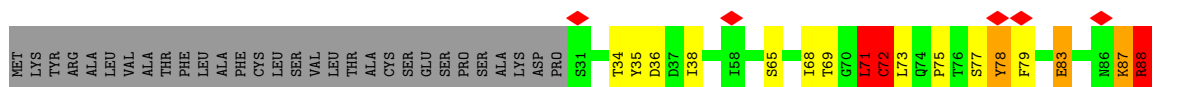
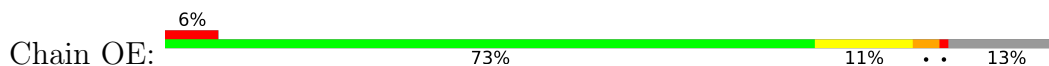
• Molecule 17: Photosystem II reaction center protein M



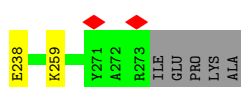
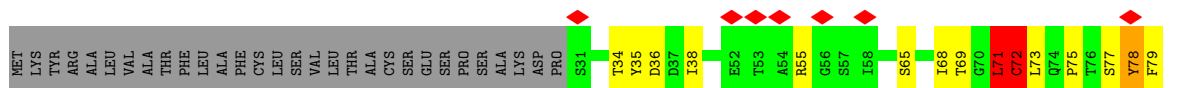
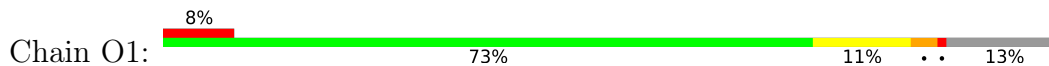
• Molecule 18: Photosystem II extrinsic protein O



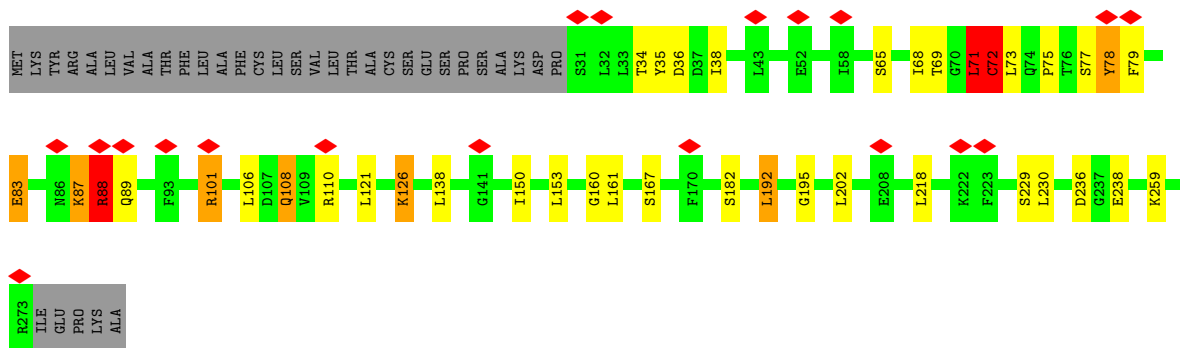
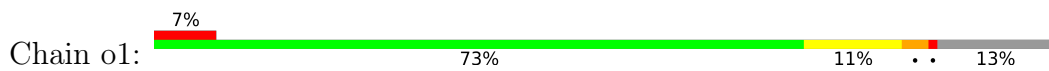
• Molecule 18: Photosystem II extrinsic protein O



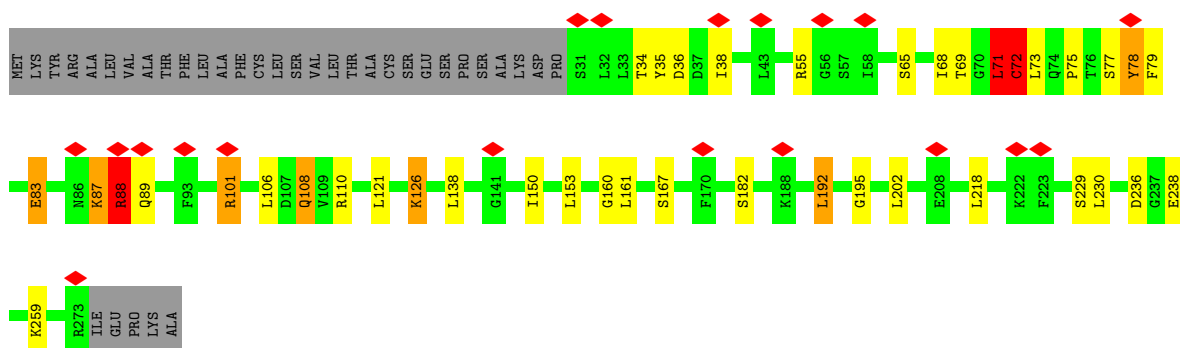
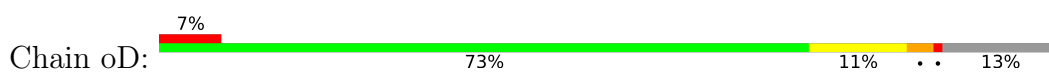
• Molecule 18: Photosystem II extrinsic protein O



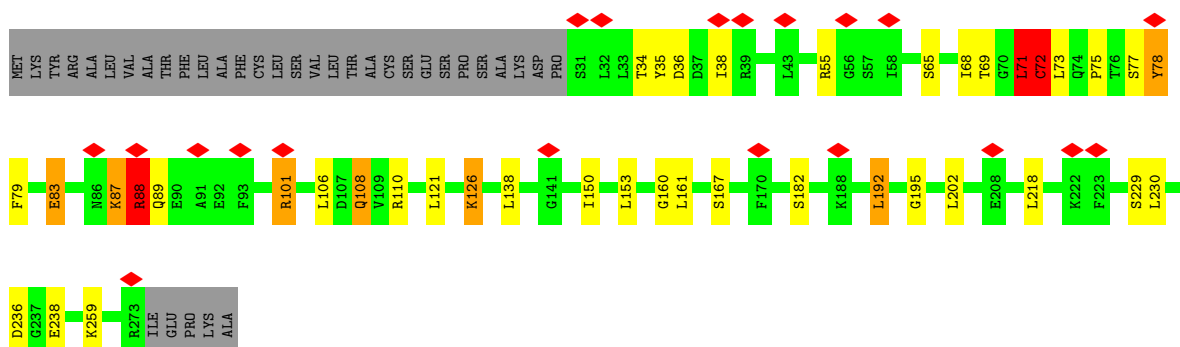
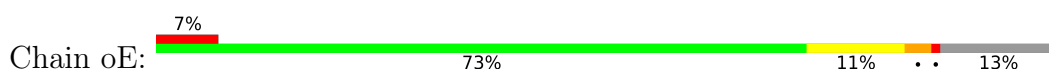
• Molecule 18: Photosystem II extrinsic protein O



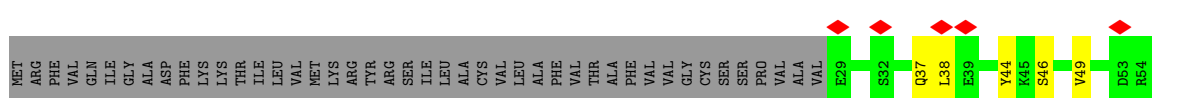
• Molecule 18: Photosystem II extrinsic protein O

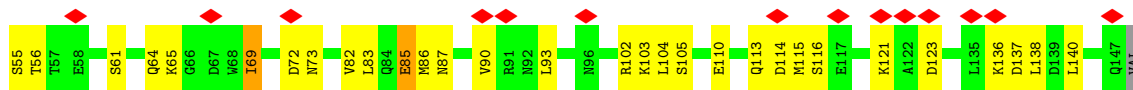


• Molecule 18: Photosystem II extrinsic protein O

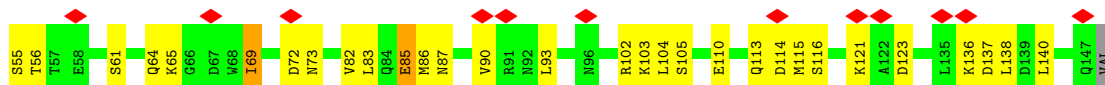
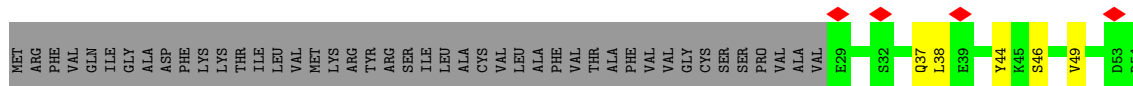


• Molecule 19: PsbQ protein

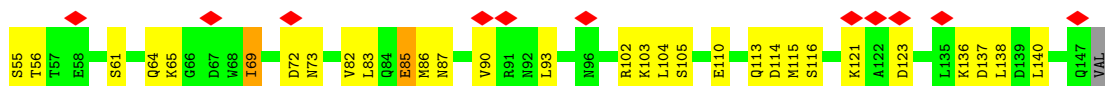
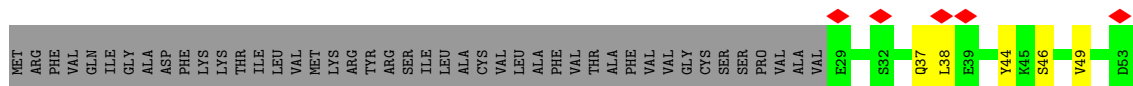




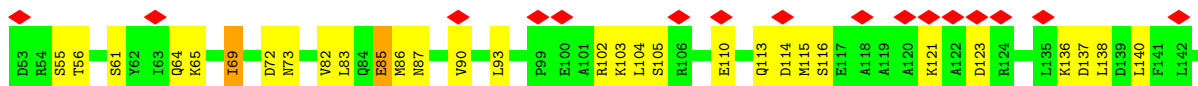
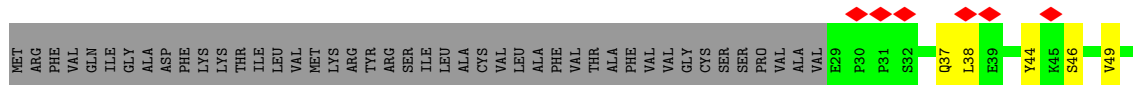
• Molecule 19: PsbQ protein



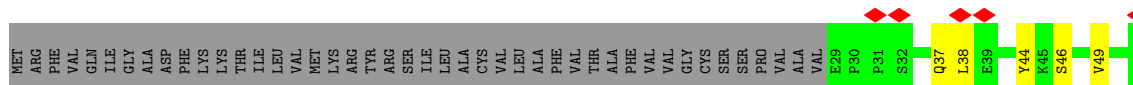
• Molecule 19: PsbQ protein

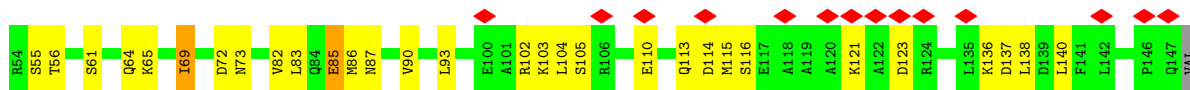


• Molecule 19: PsbQ protein

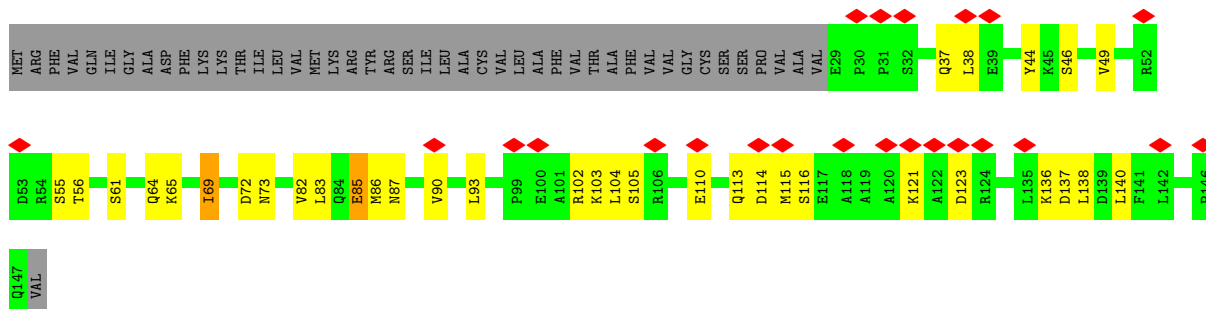


• Molecule 19: PsbQ protein

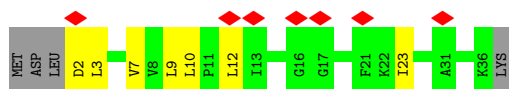
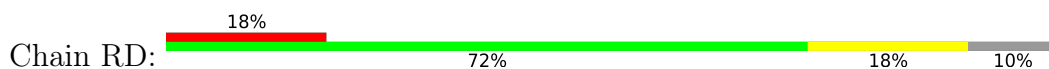




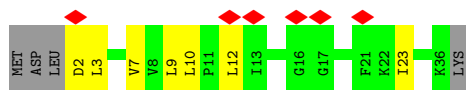
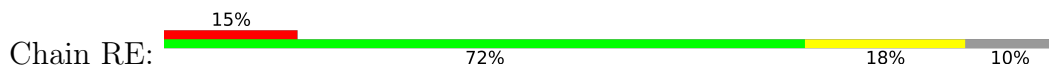
• Molecule 19: PsbQ protein



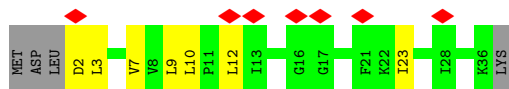
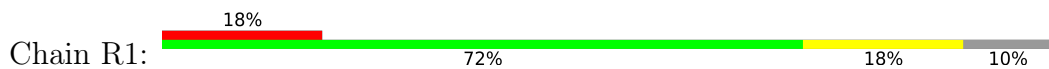
• Molecule 20: Photosystem II reaction center protein Y



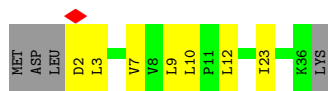
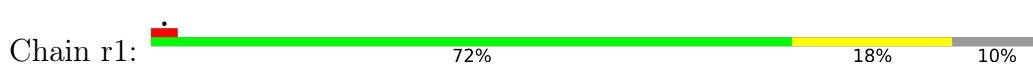
• Molecule 20: Photosystem II reaction center protein Y



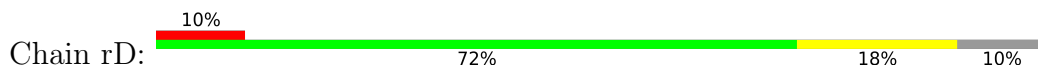
• Molecule 20: Photosystem II reaction center protein Y



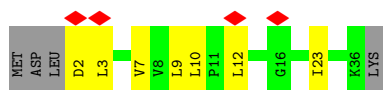
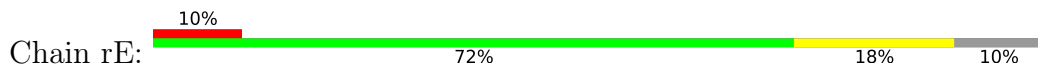
• Molecule 20: Photosystem II reaction center protein Y



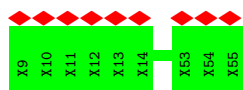
• Molecule 20: Photosystem II reaction center protein Y



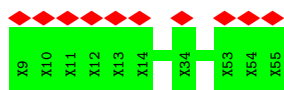
• Molecule 20: Photosystem II reaction center protein Y



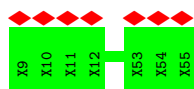
• Molecule 21: LPP1



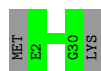
• Molecule 21: LPP1



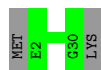
• Molecule 21: LPP1



• Molecule 22: Photosystem II reaction center protein T



• Molecule 22: Photosystem II reaction center protein T



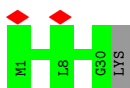
• Molecule 22: Photosystem II reaction center protein T

Chain T1:  94% 6%



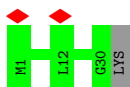
- Molecule 22: Photosystem II reaction center protein T

Chain t1:  6% 97%



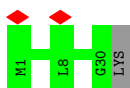
- Molecule 22: Photosystem II reaction center protein T

Chain tD:  6% 97%



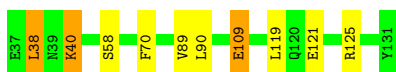
- Molecule 22: Photosystem II reaction center protein T

Chain tE:  6% 97%



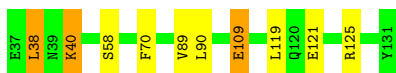
- Molecule 23: PsbU

Chain UD:  89% 7%



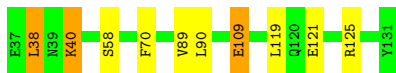
- Molecule 23: PsbU

Chain UE:  89% 7%

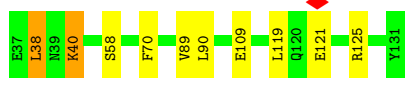
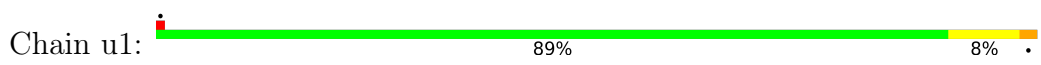


- Molecule 23: PsbU

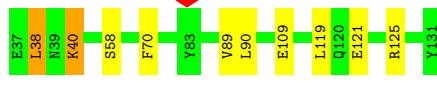
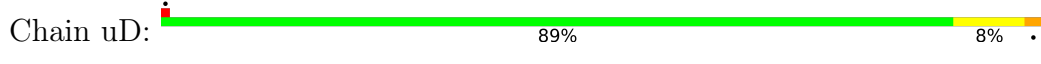
Chain U1:  89% 7%



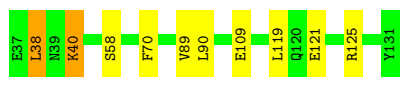
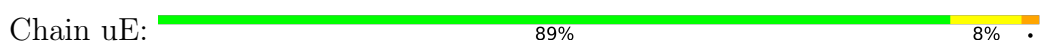
- Molecule 23: PsbU



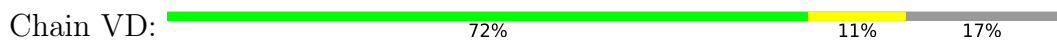
• Molecule 23: PsbU



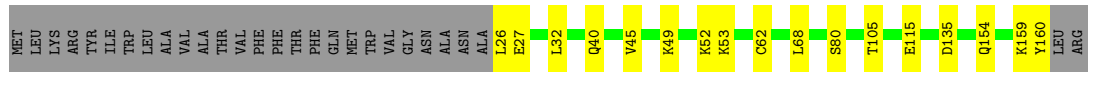
• Molecule 23: PsbU



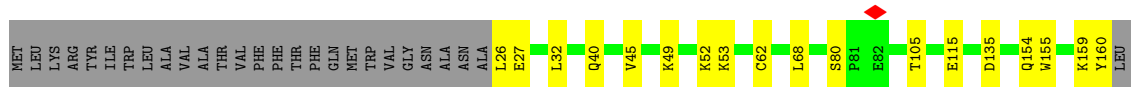
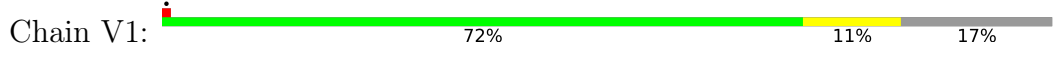
• Molecule 24: Photosystem II extrinsic protein V



• Molecule 24: Photosystem II extrinsic protein V

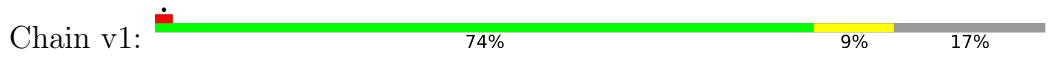


• Molecule 24: Photosystem II extrinsic protein V



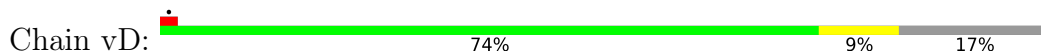
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• Molecule 24: Photosystem II extrinsic protein V

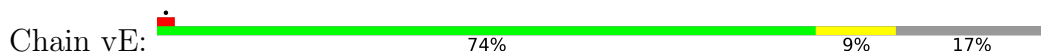




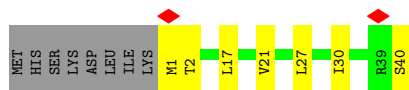
• Molecule 24: Photosystem II extrinsic protein V



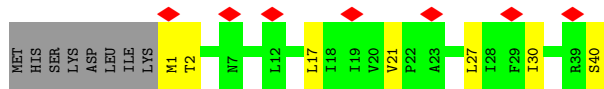
• Molecule 24: Photosystem II extrinsic protein V



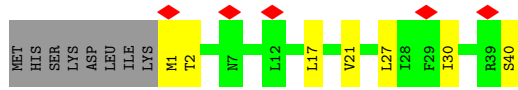
• Molecule 25: Photosystem II reaction center protein X



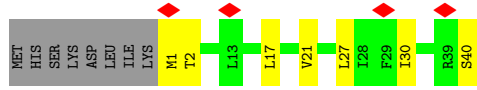
• Molecule 25: Photosystem II reaction center protein X



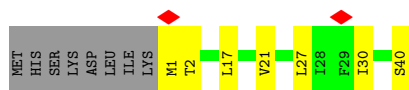
• Molecule 25: Photosystem II reaction center protein X



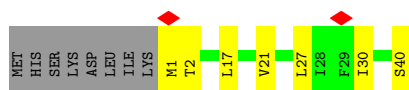
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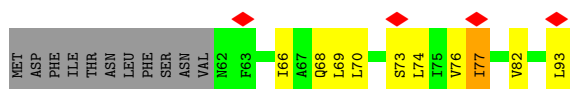
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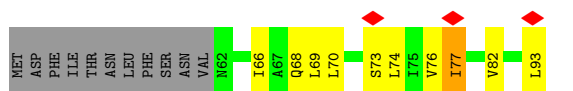
• Molecule 25: Photosystem II reaction center protein X



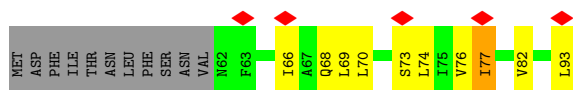
• Molecule 26: Photosystem II reaction center protein Psb30



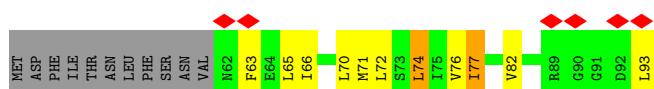
• Molecule 26: Photosystem II reaction center protein Psb30



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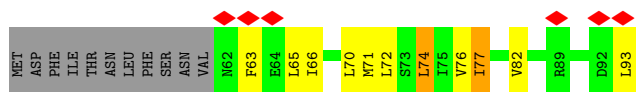


• Molecule 26: Photosystem II reaction center protein Psb30

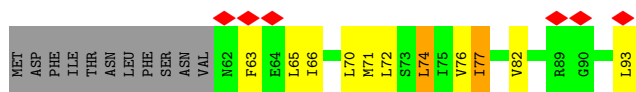


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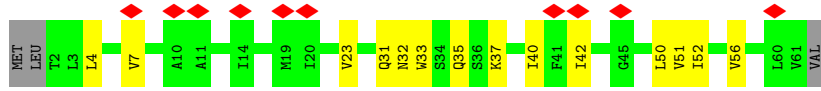
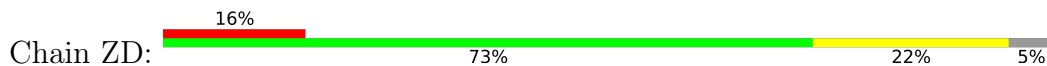




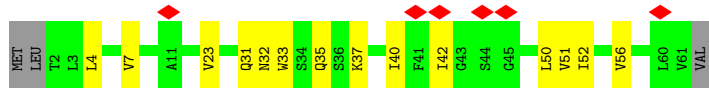
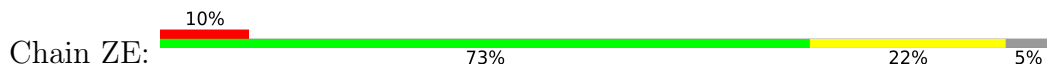
• Molecule 26: Photosystem II reaction center protein Psb30



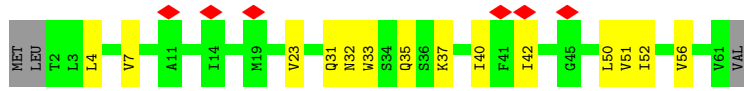
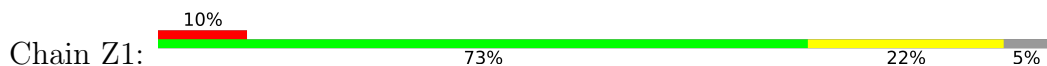
• Molecule 27: Photosystem II reaction center protein Z



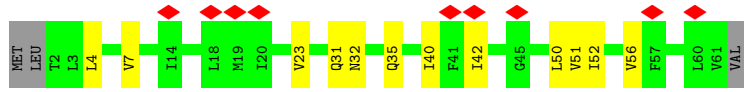
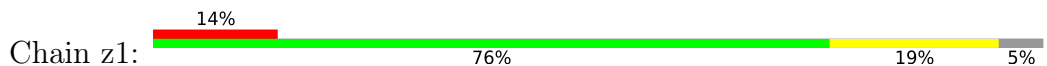
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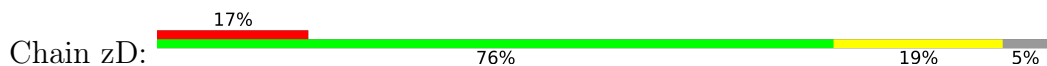
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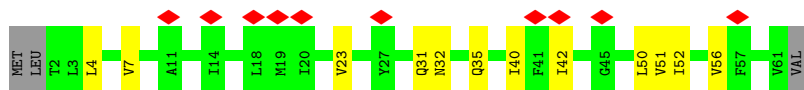
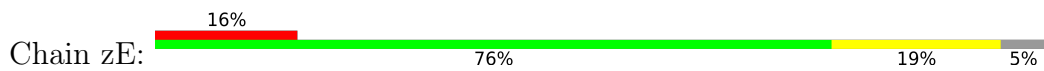
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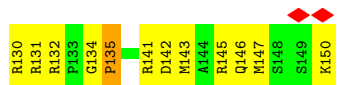
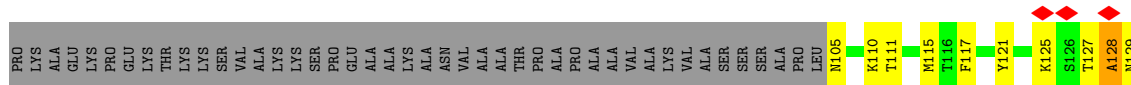
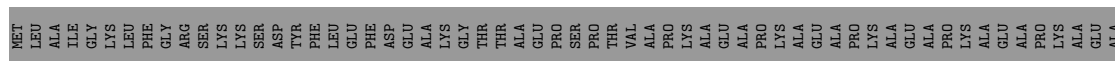
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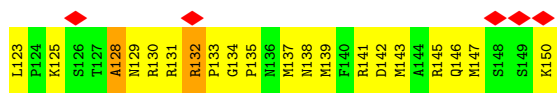
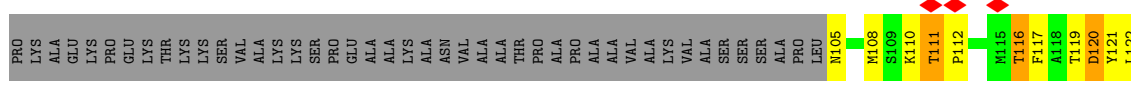
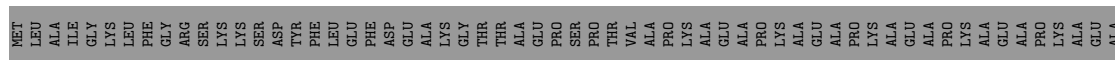
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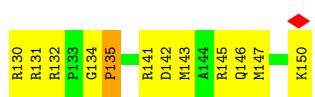
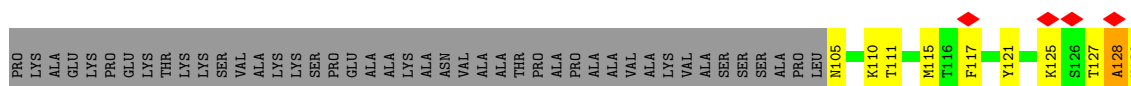
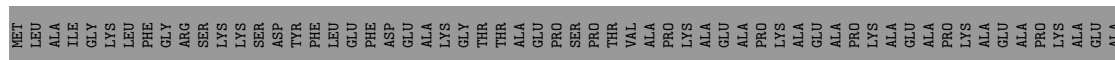
• Molecule 28: LPP2



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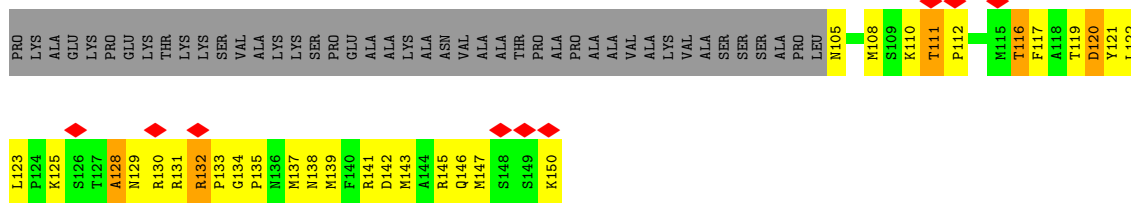
• Molecule 28: LPP2



• Molecule 28: LPP2



MET LEU ALA ILE GLY LYS PHE GLY ARG LYS LYS SER ASP TYR PHE LEU GLU PHE ASP GLU ALA LYS ASN VAL GLY THR THR ALA PRO SER PRO THR VAL ALA LYS VAL ALA GLU SER PRO LYS ALA LEU M105 M108 S109 K110 T111 P112 M115 T116 F117 A118 T119 D120 Y121 L122



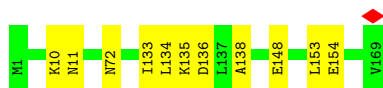
● Molecule 29: Allophycocyanin beta-18 subunit



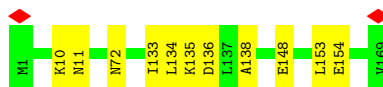
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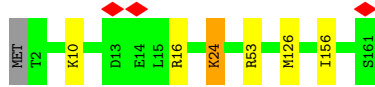
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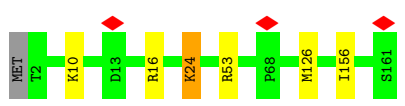
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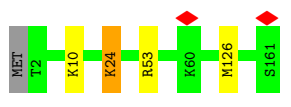
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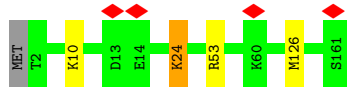
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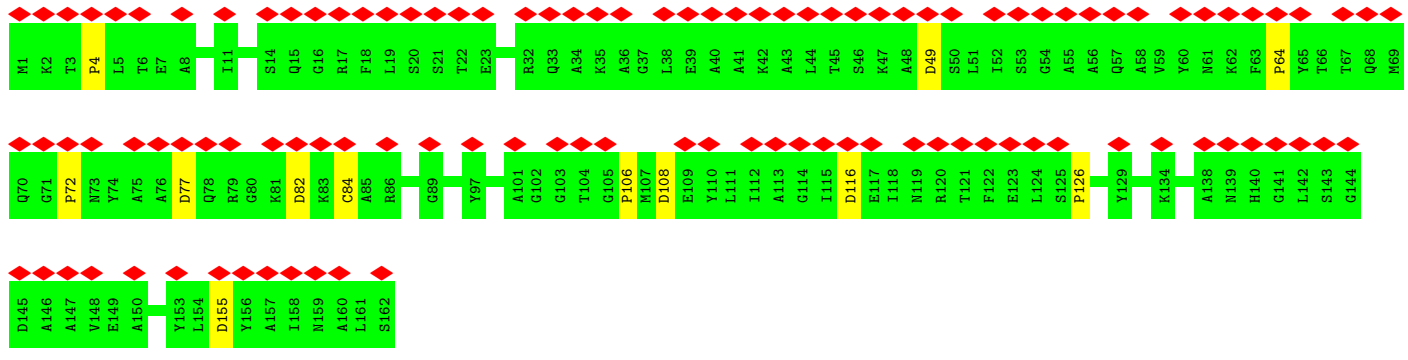
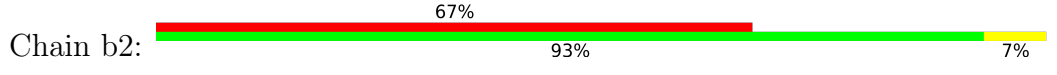
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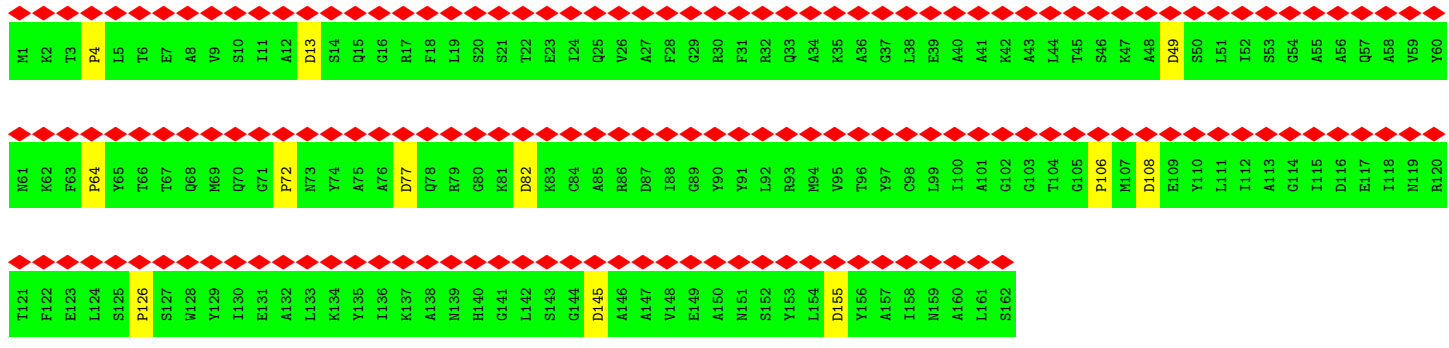
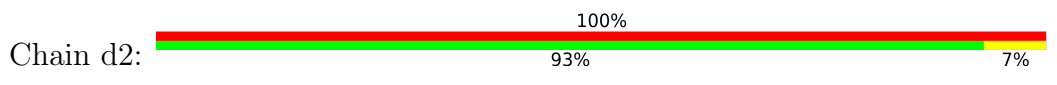
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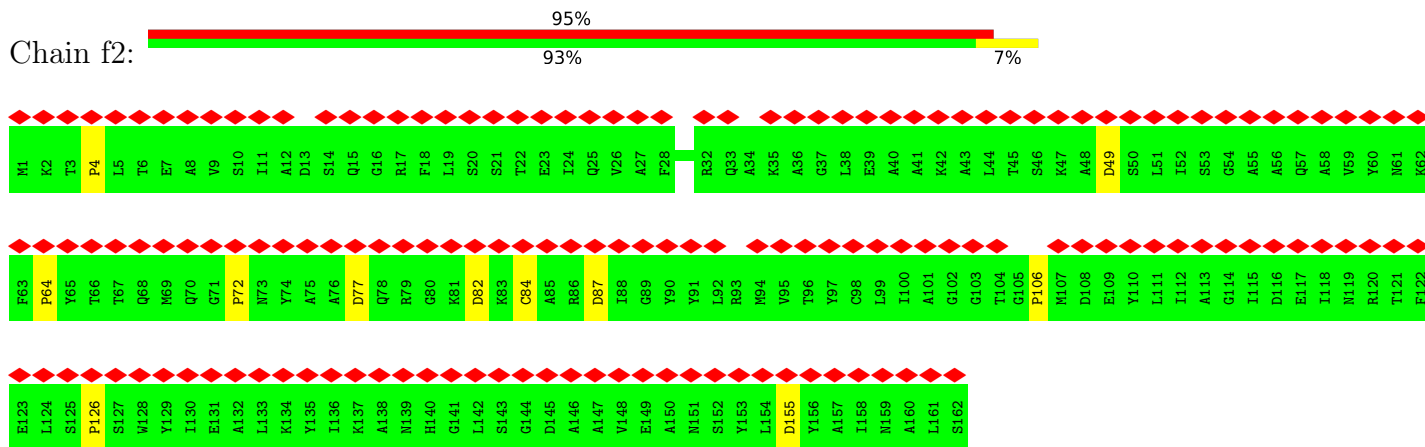
• Molecule 31: C-phycoyanin alpha subunit



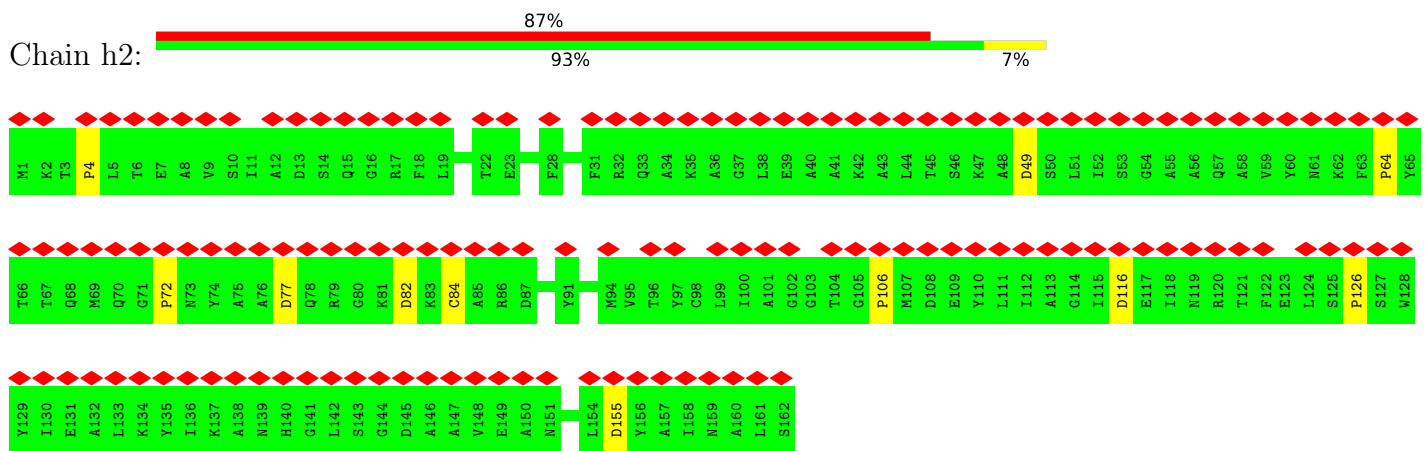
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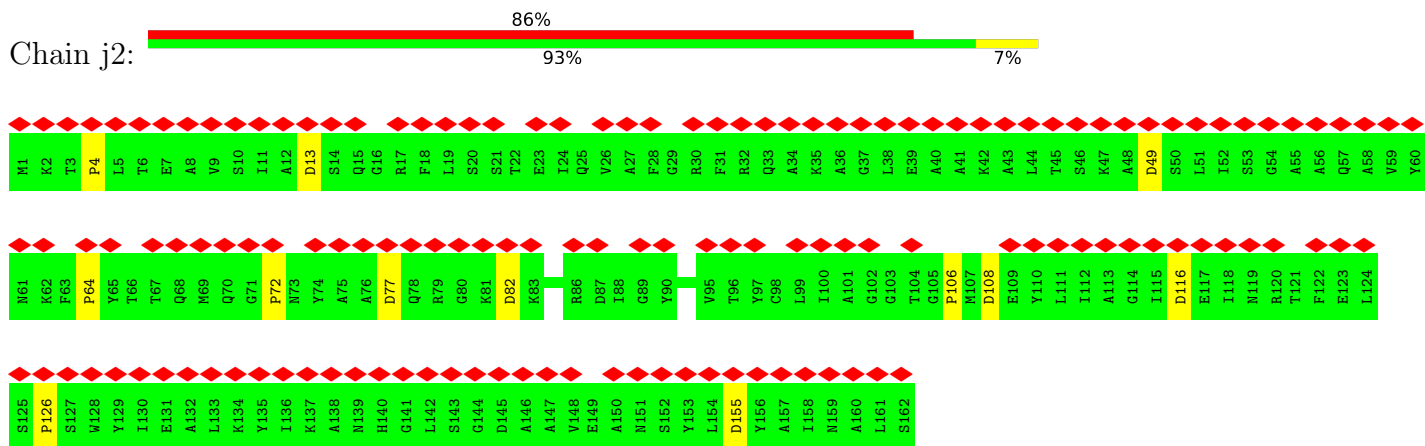
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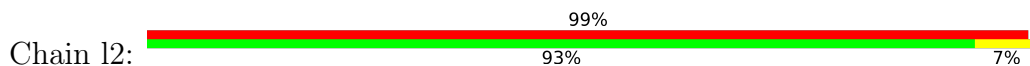
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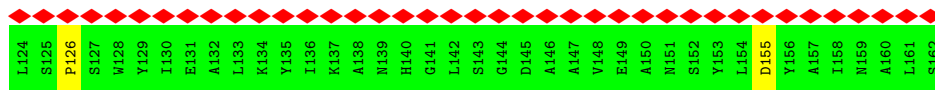


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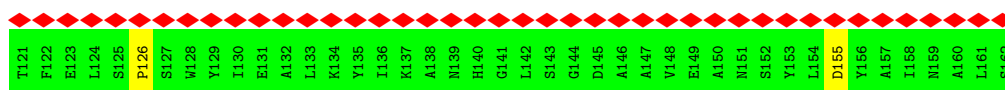
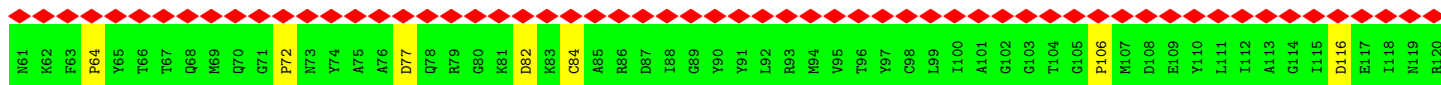
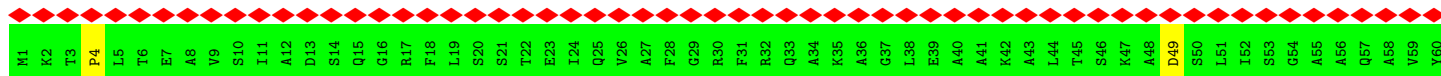
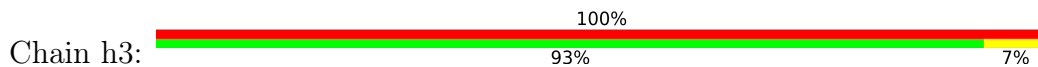


- Molecule 31: C-phycoyanin alpha subunit

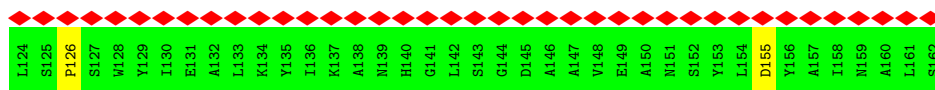
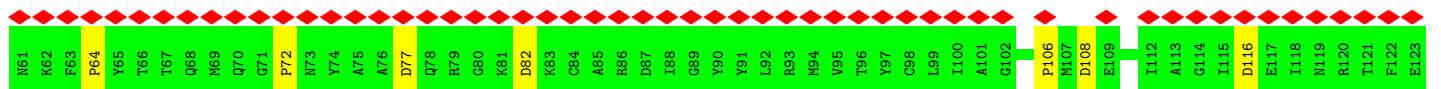
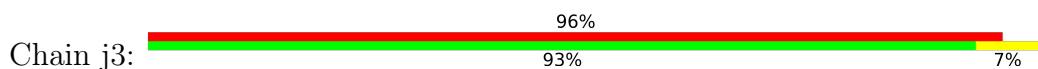




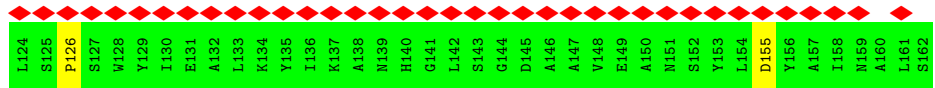
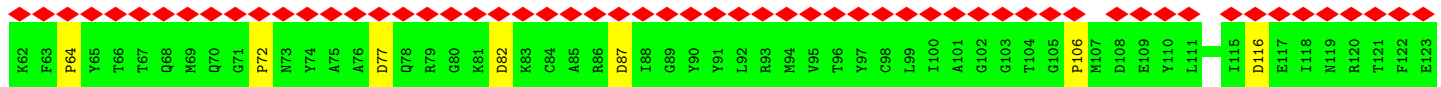
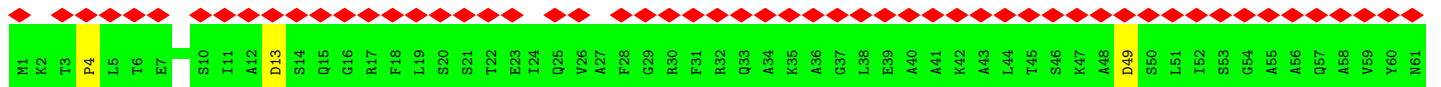
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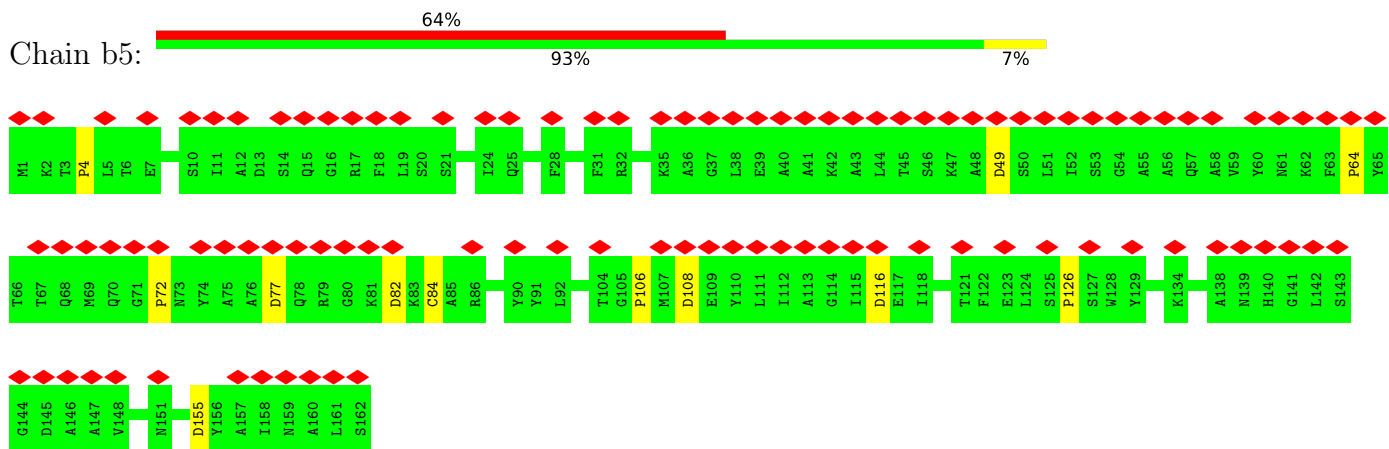
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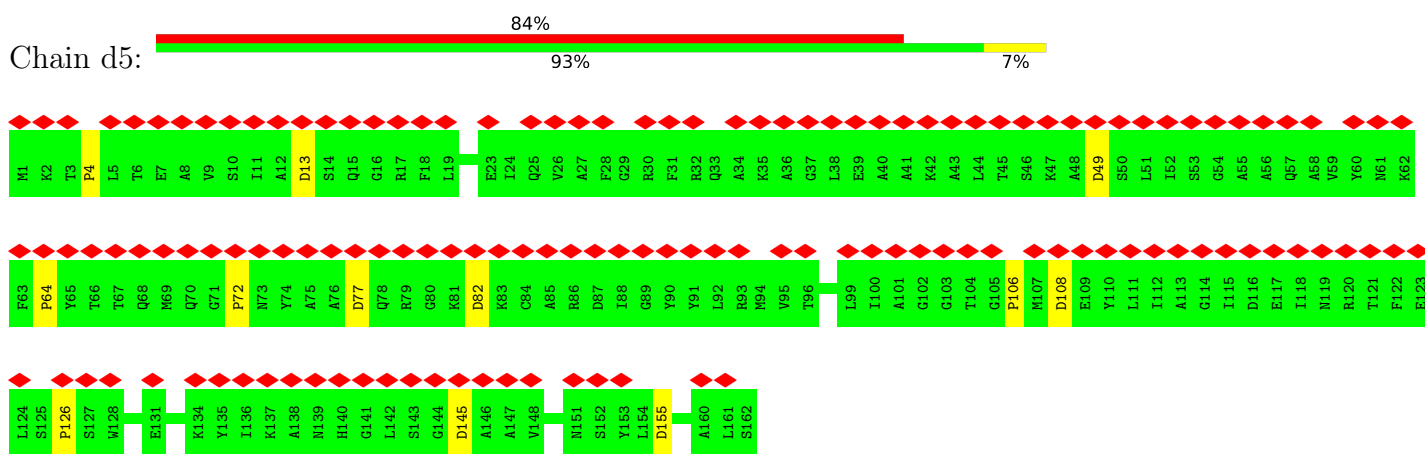
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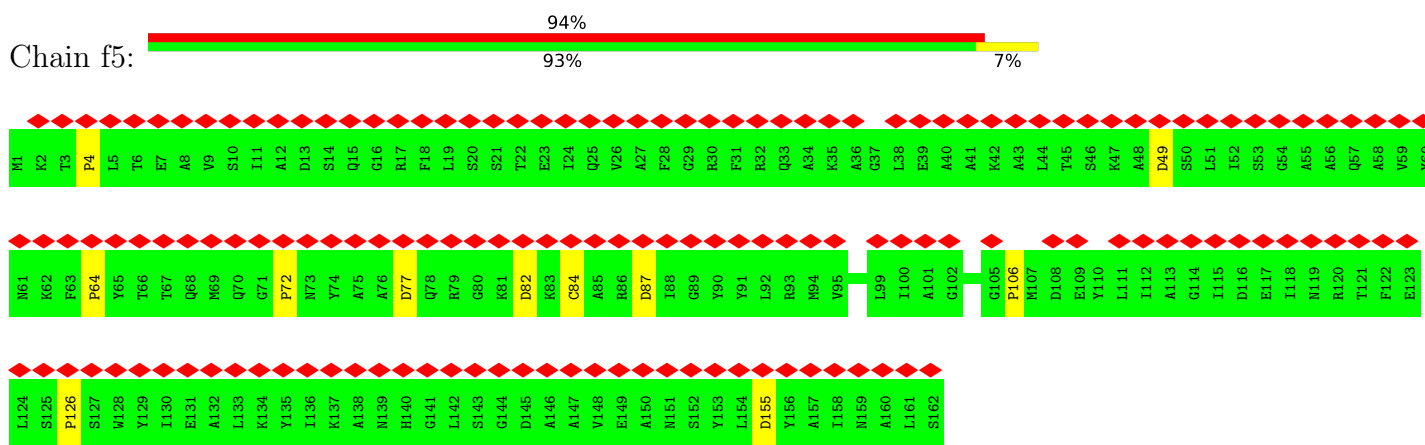
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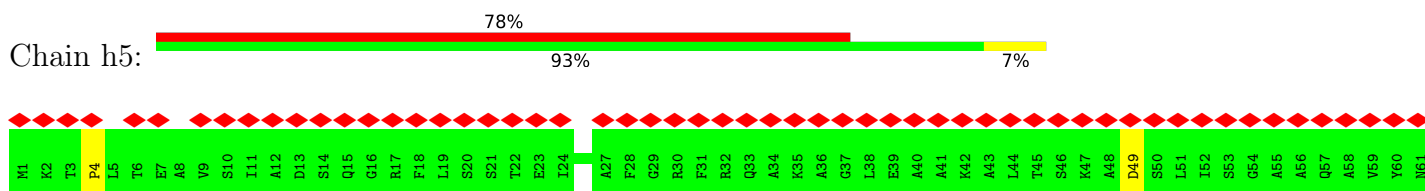
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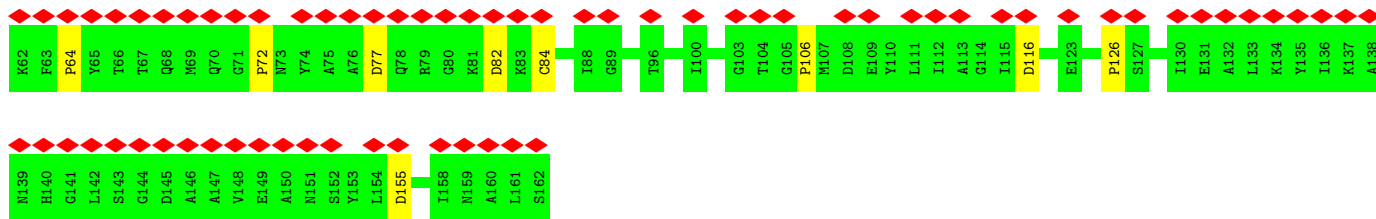


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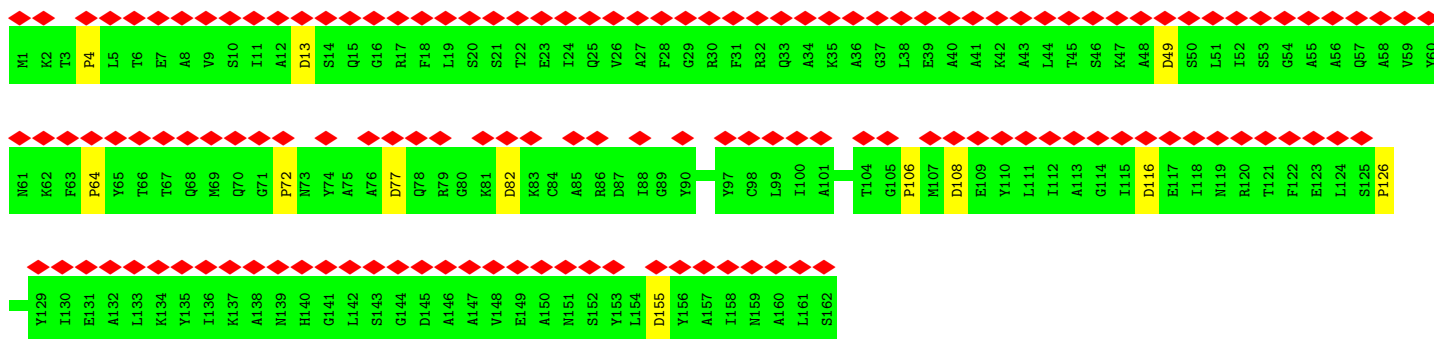
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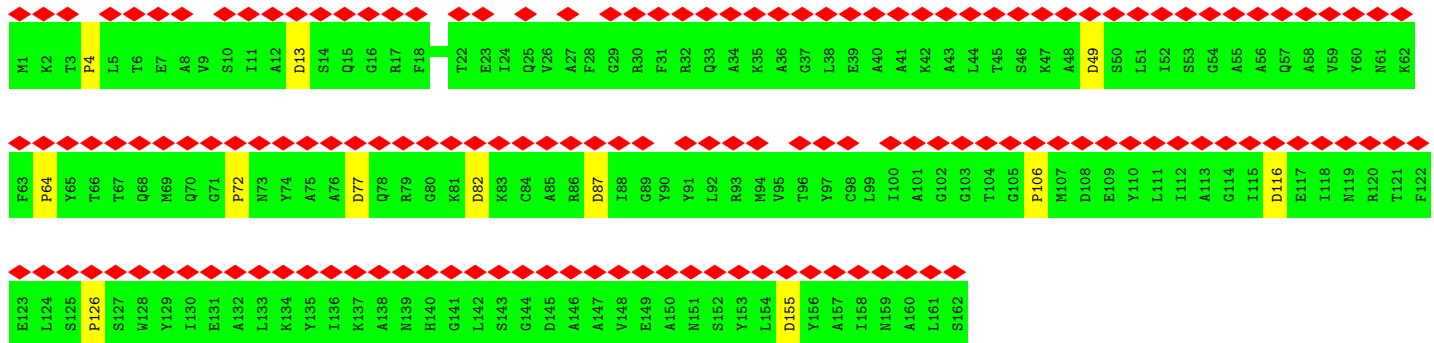
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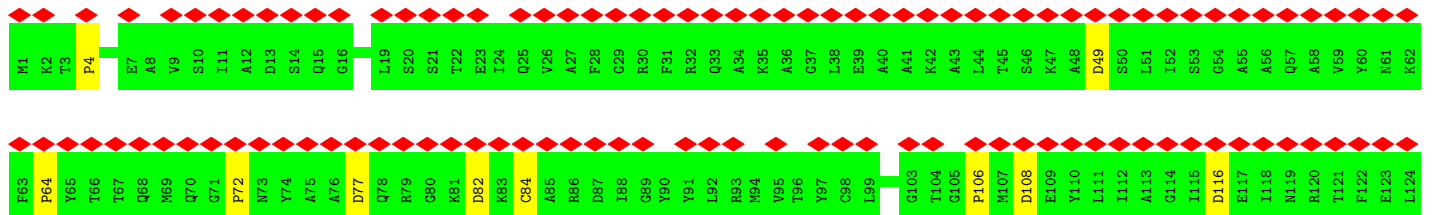
- Molecule 31: C-phycoyanin alpha subunit

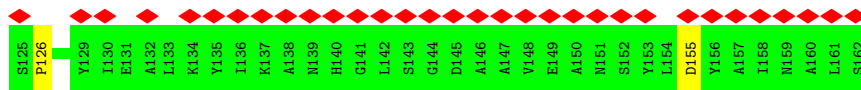
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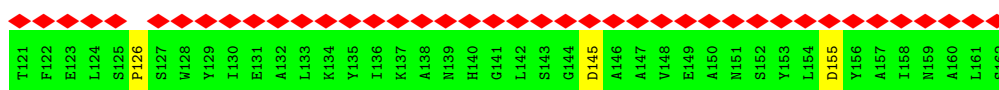
- Molecule 31: C-phycoyanin alpha subunit

Chain b6:

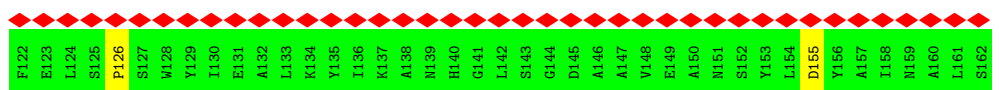
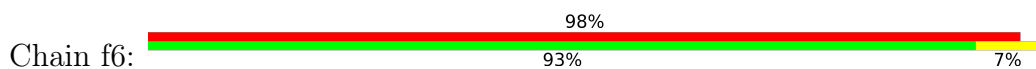




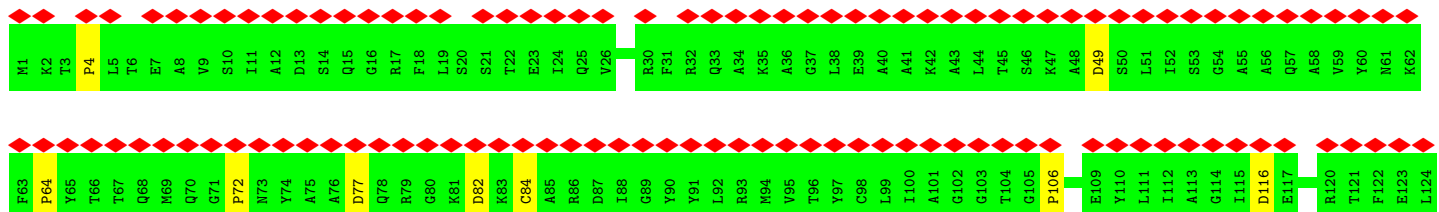
- Molecule 31: C-phycoerythrin alpha subunit



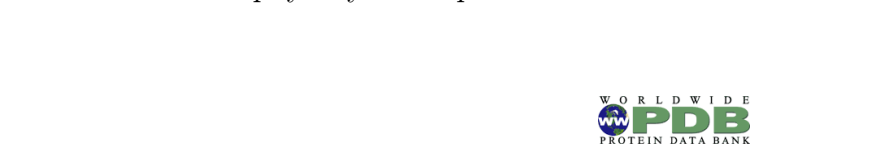
- Molecule 31: C-phycoerythrin alpha subunit

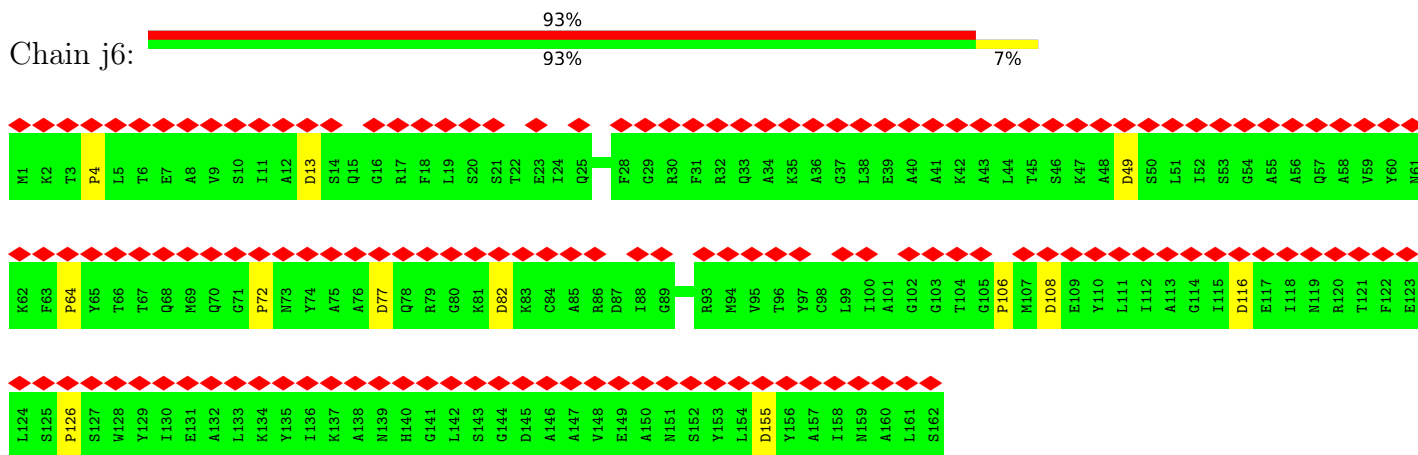


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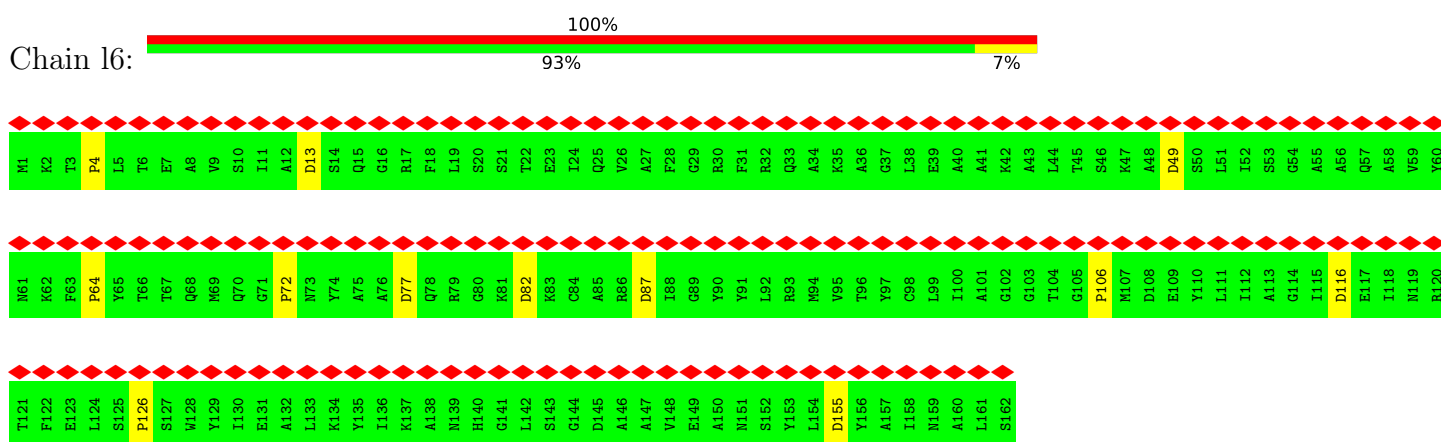


- Molecule 31: C-phycoerythrin alpha subunit

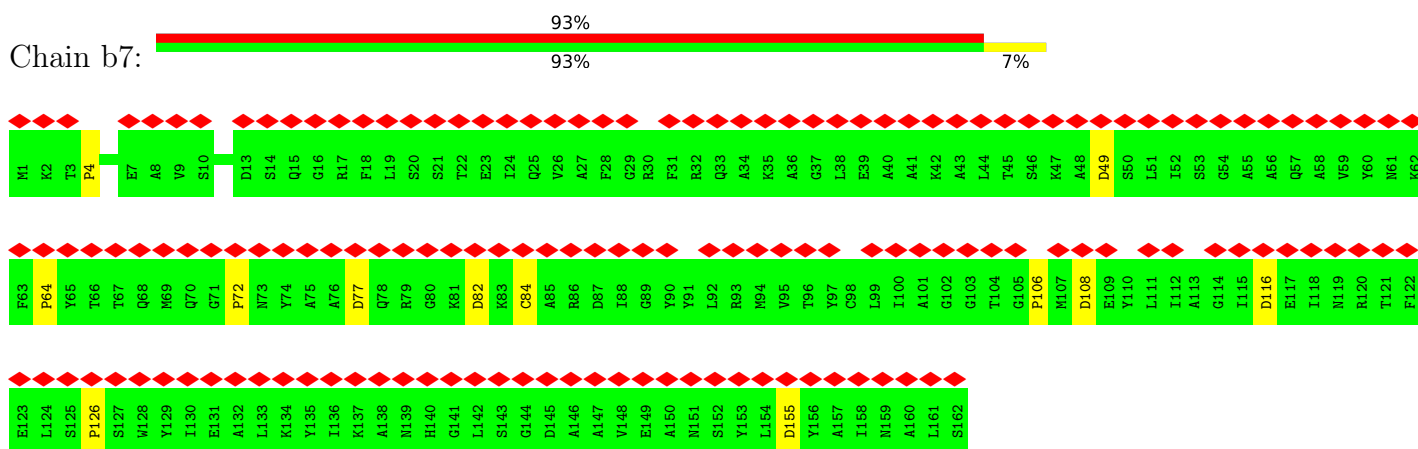




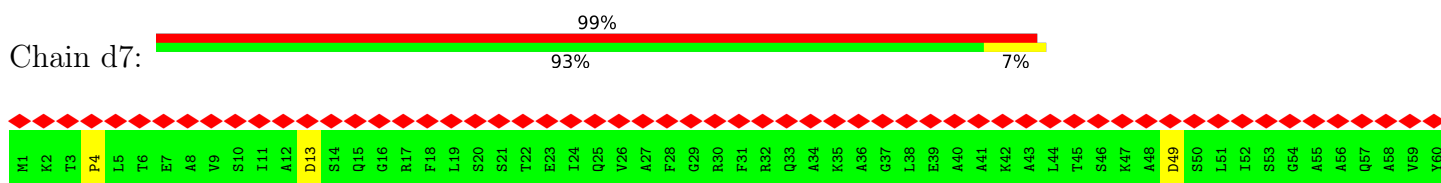
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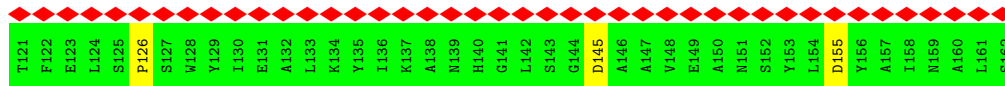
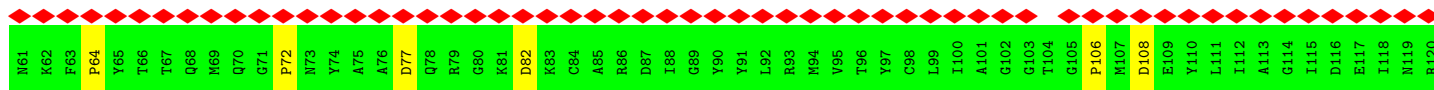


- Molecule 31: C-phycoerythrin alpha subunit

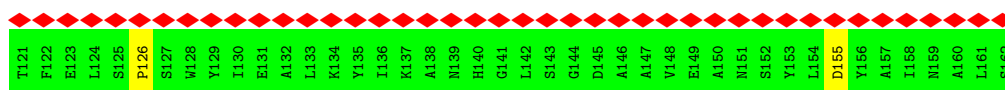
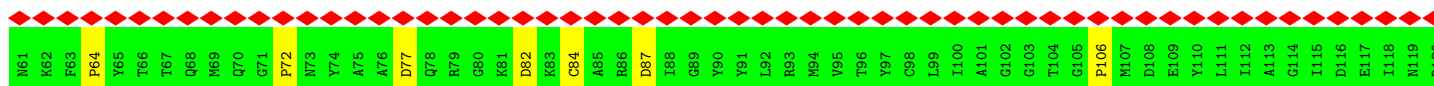
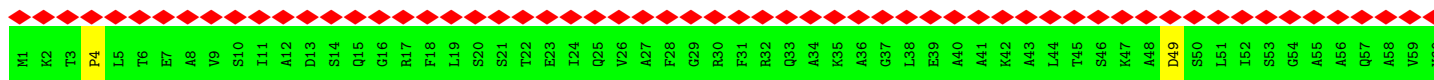
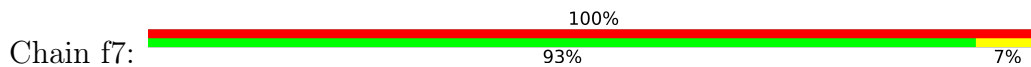


- Molecule 31: C-phycoerythrin alpha subunit

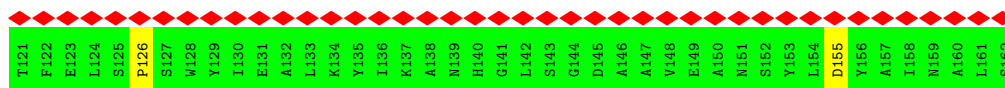
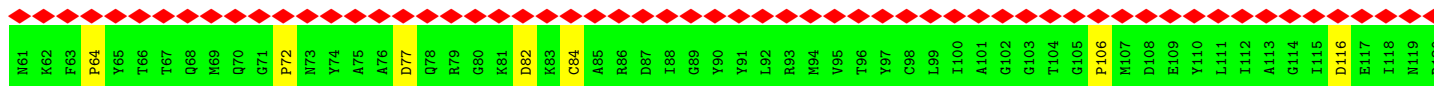
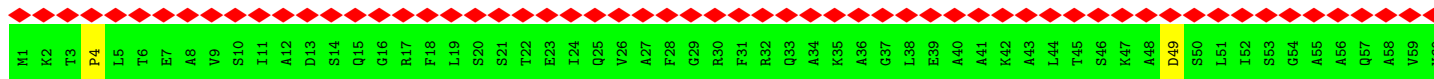




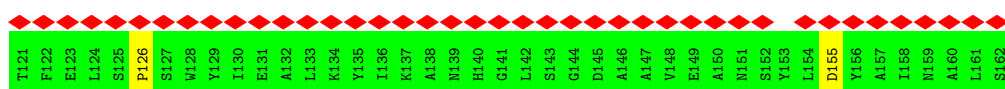
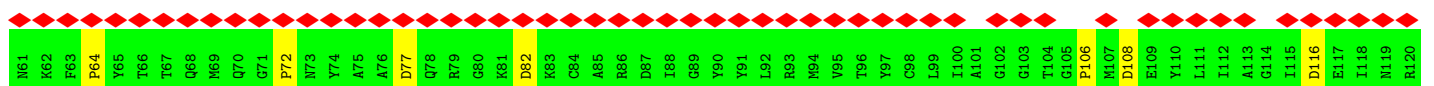
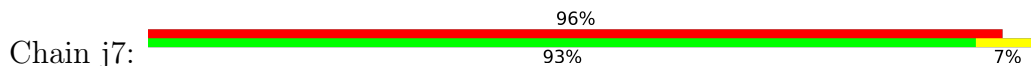
- Molecule 31: C-phycoerythrin alpha subunit



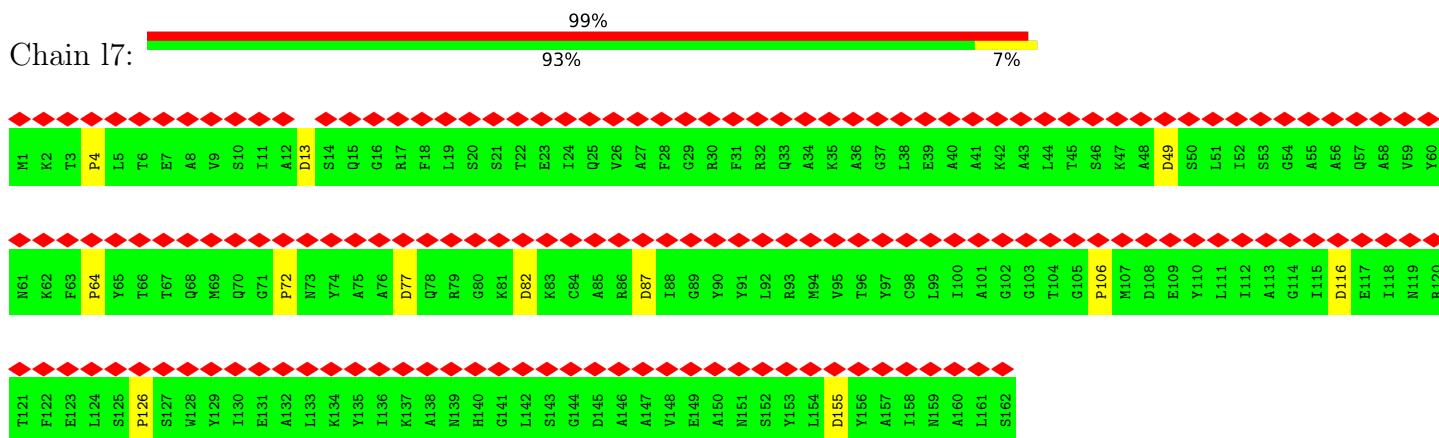
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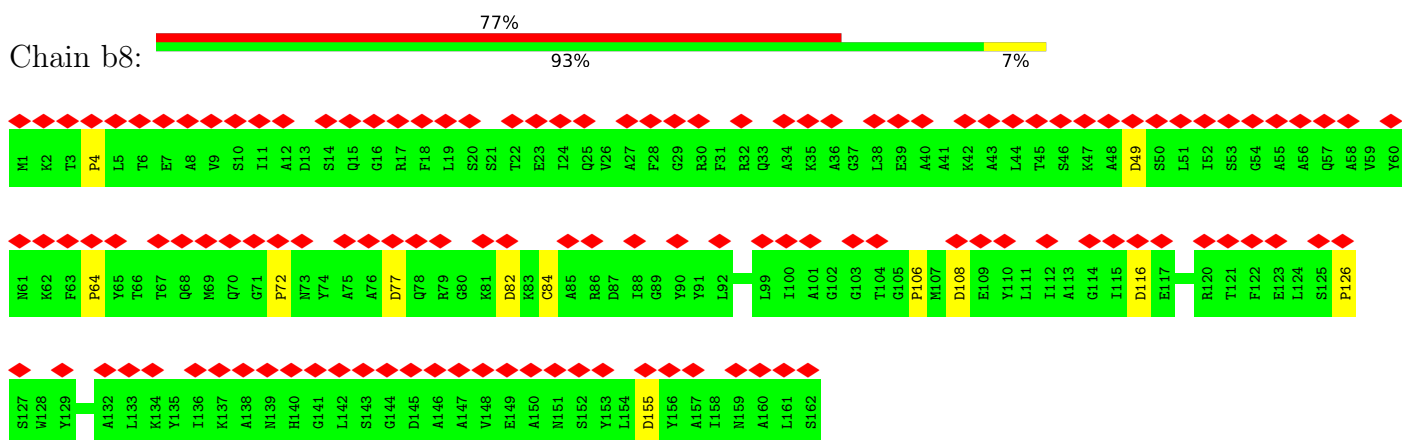
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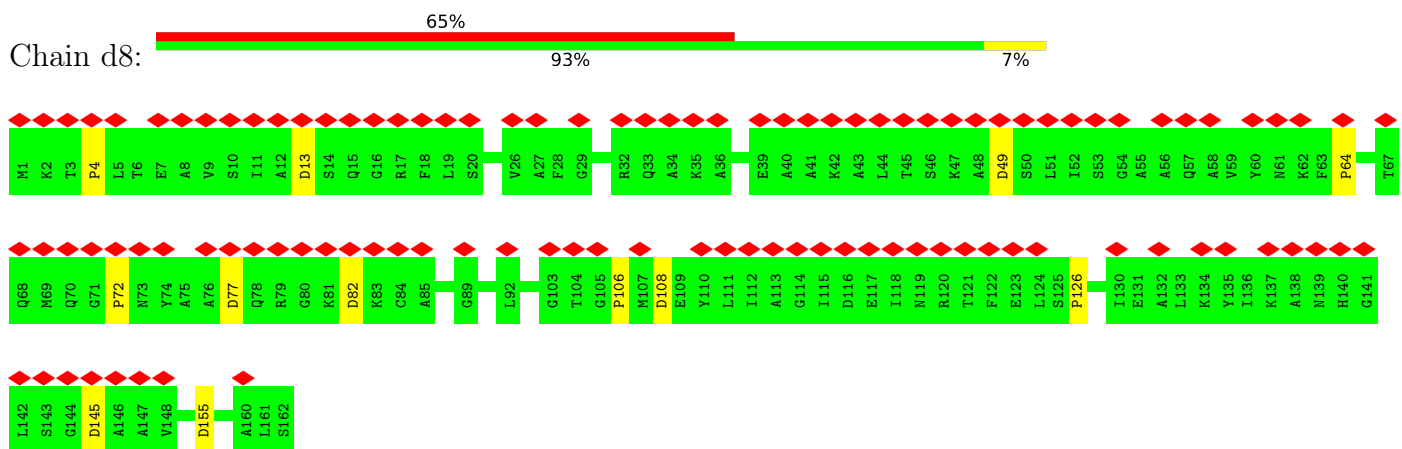
- Molecule 31: C-phycoerythrin alpha subunit



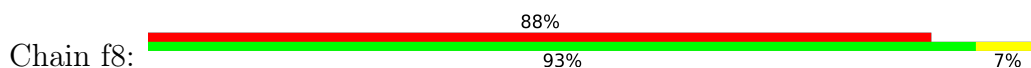
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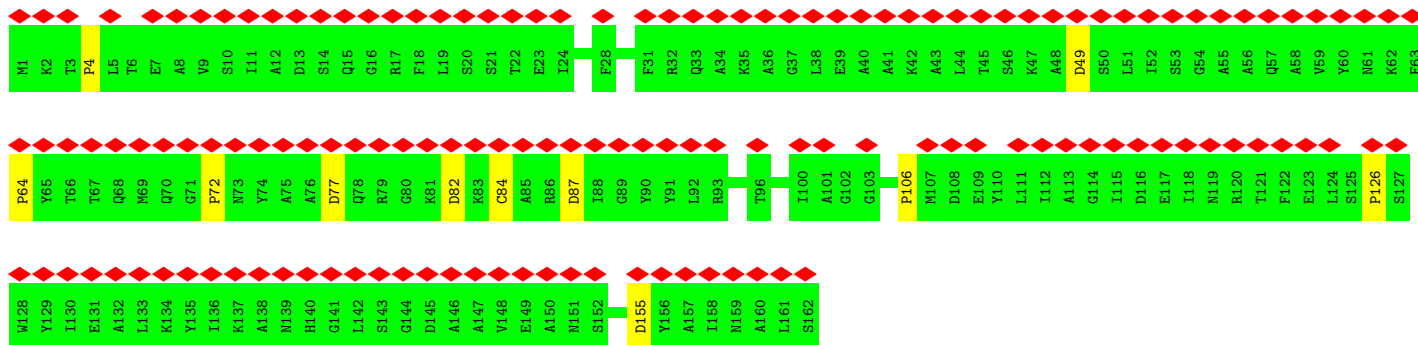


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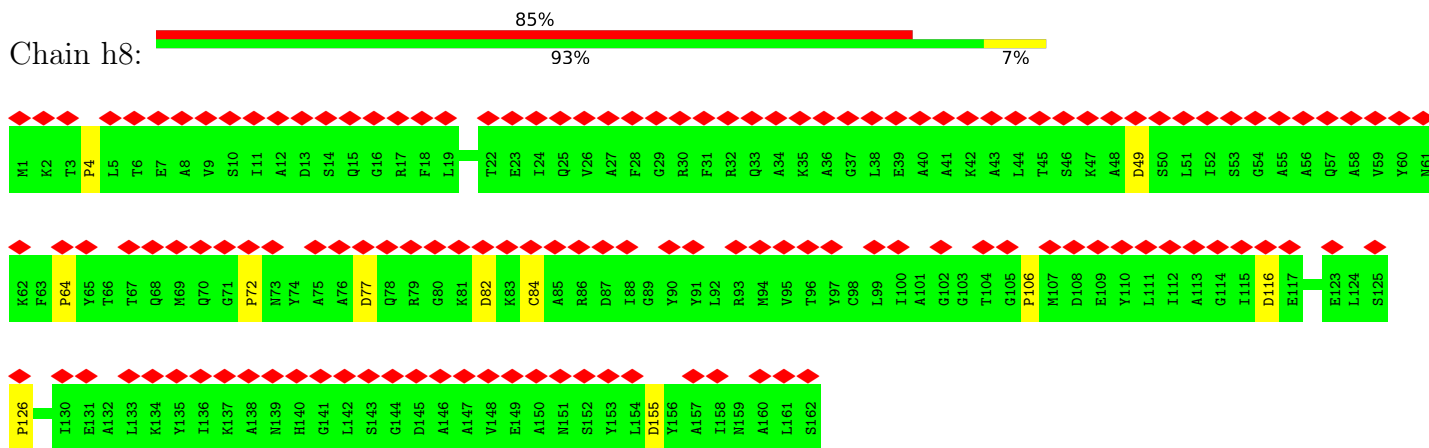


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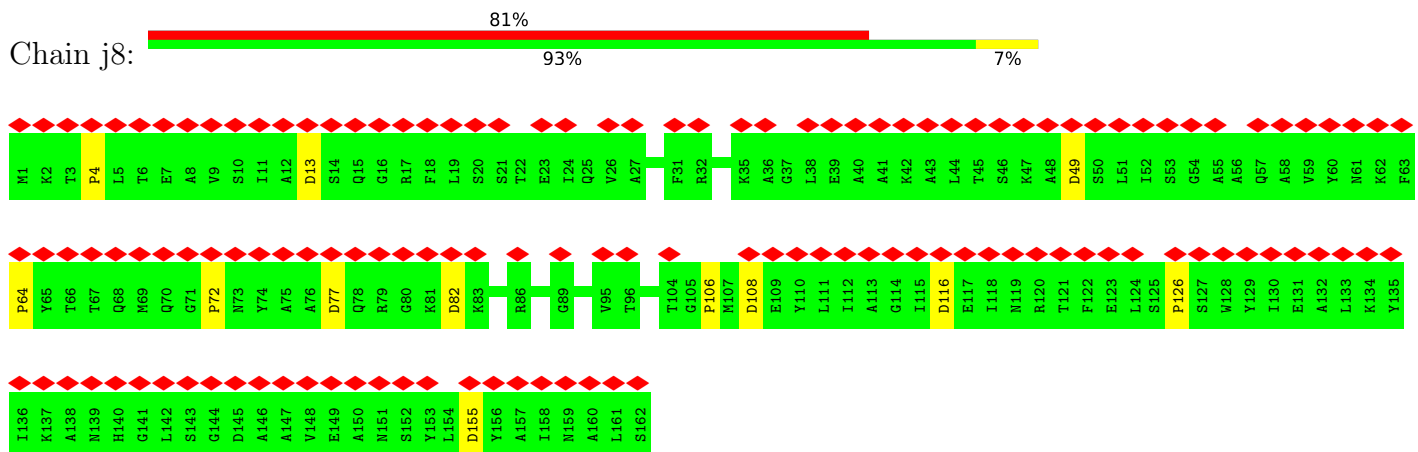




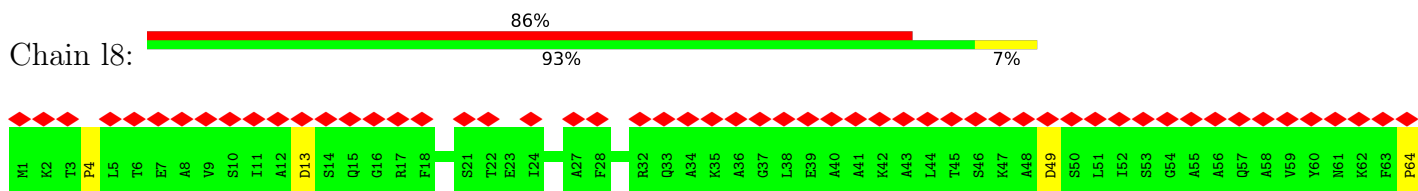
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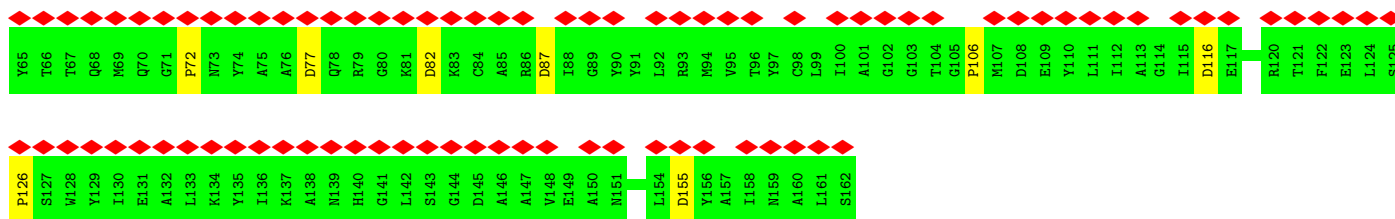


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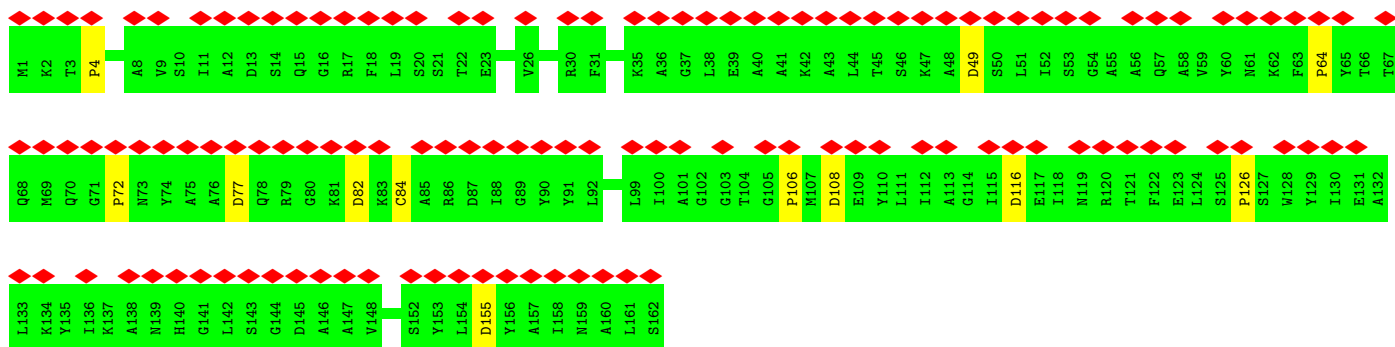
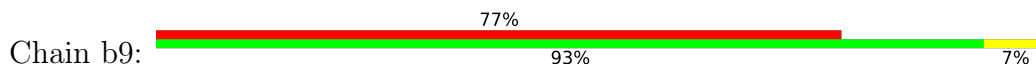


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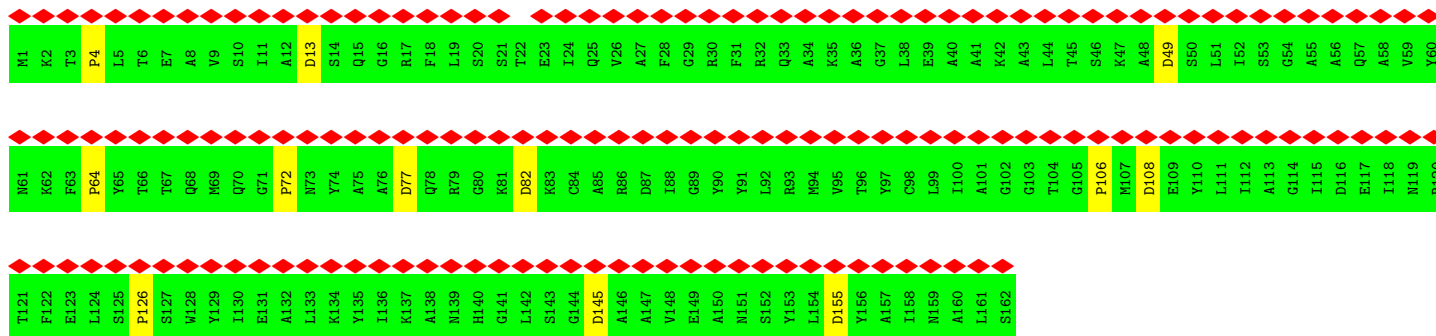




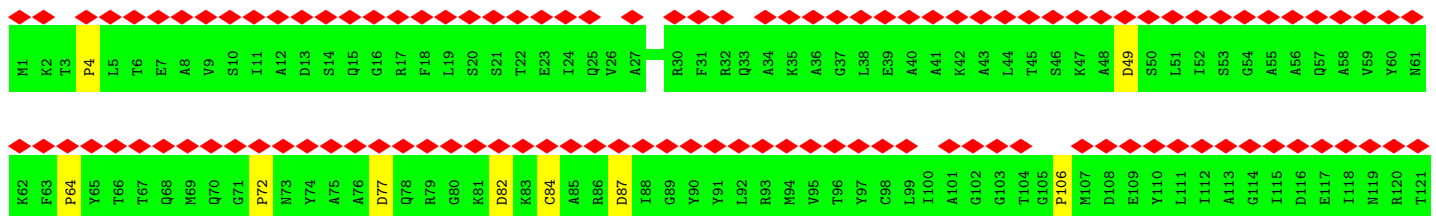
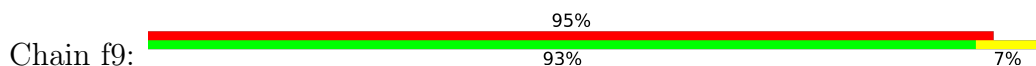
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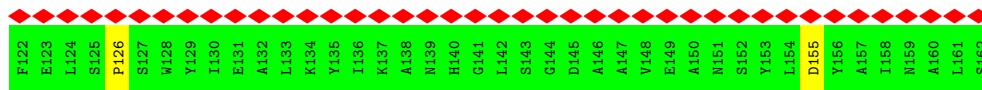


- Molecule 31: C-phycoerythrin alpha subunit

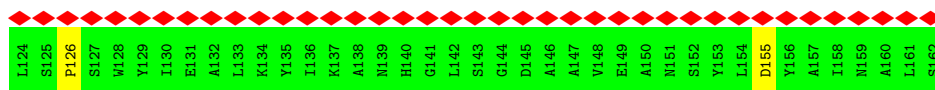


- Molecule 31: C-phycoerythrin alpha subunit

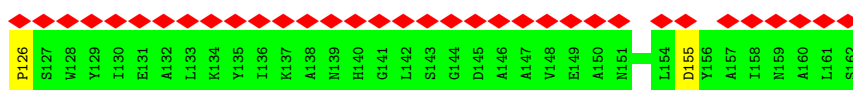
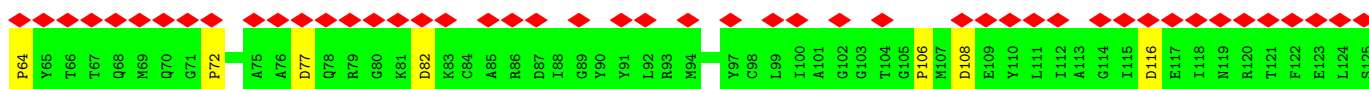
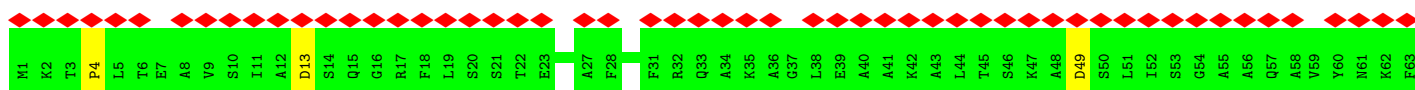
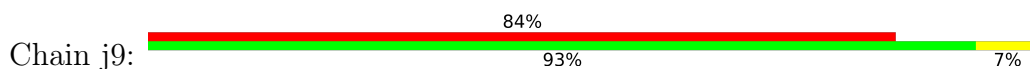




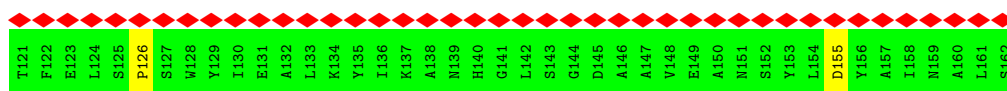
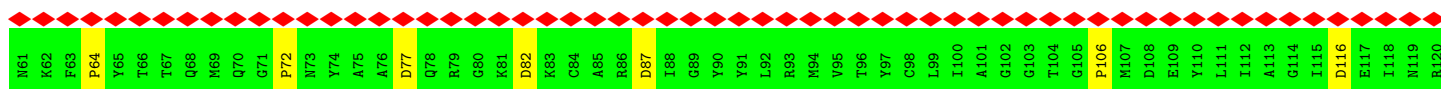
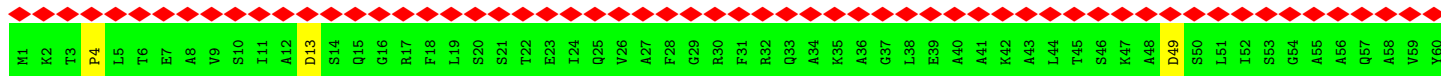
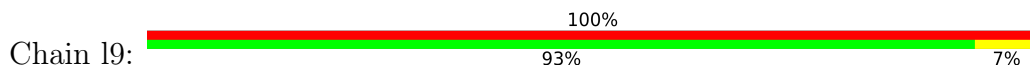
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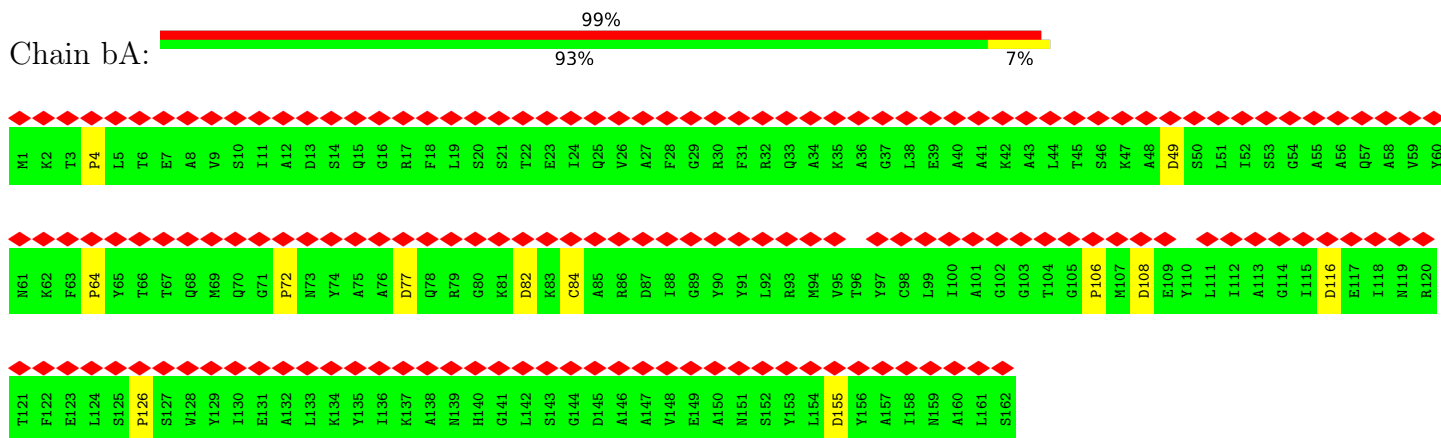
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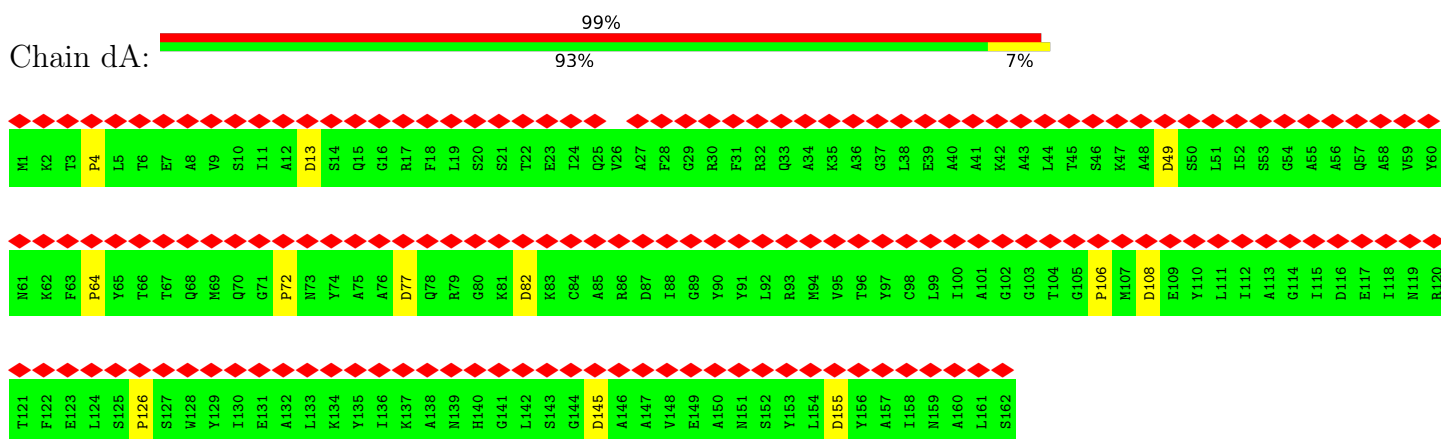
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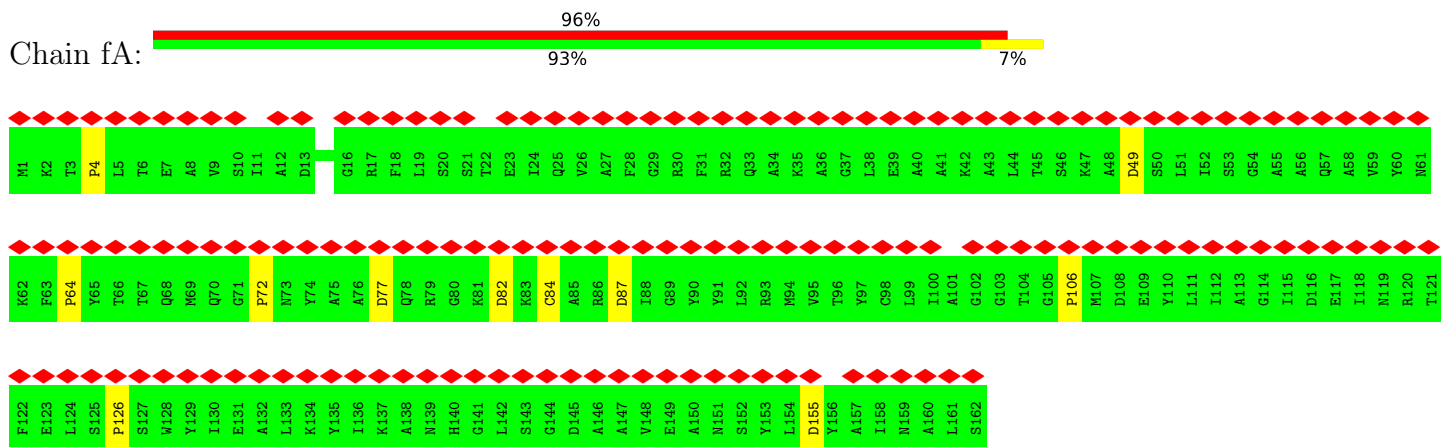
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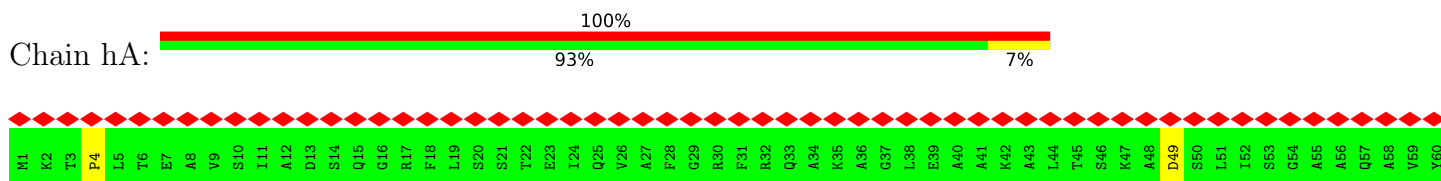
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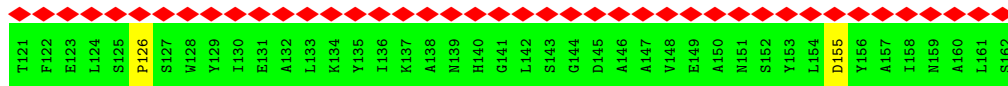
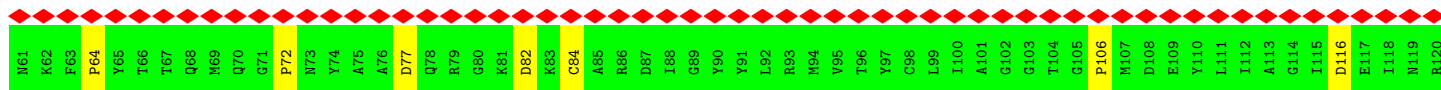


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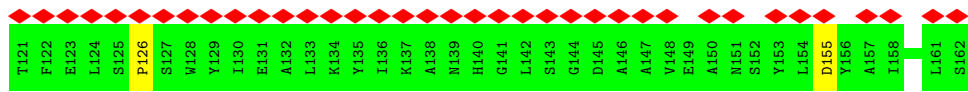
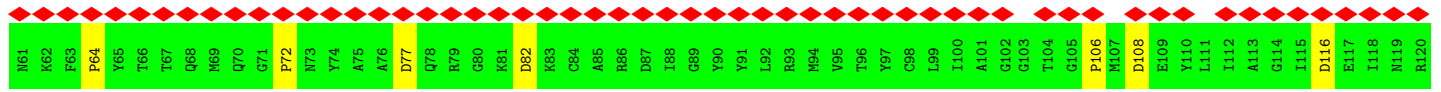
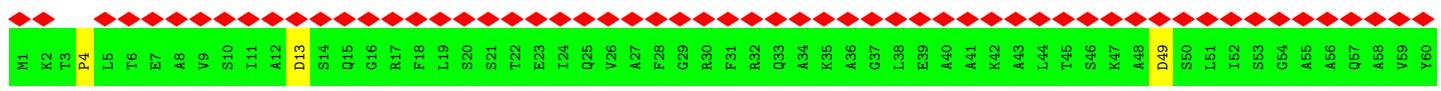
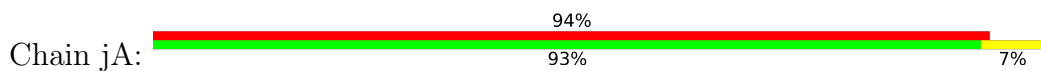


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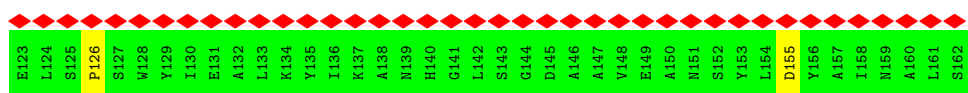
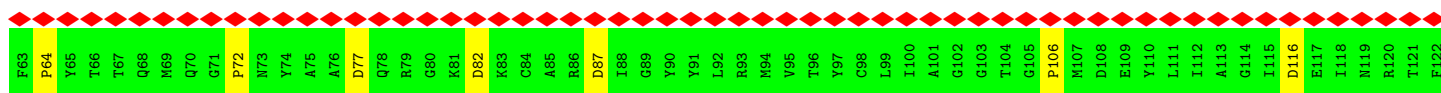
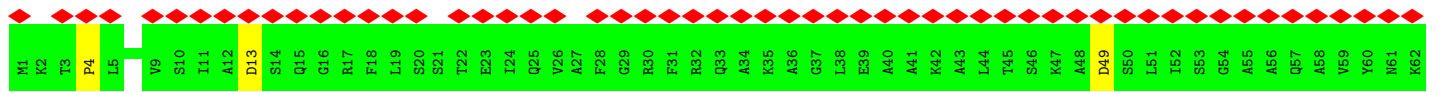
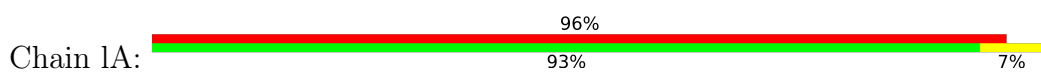




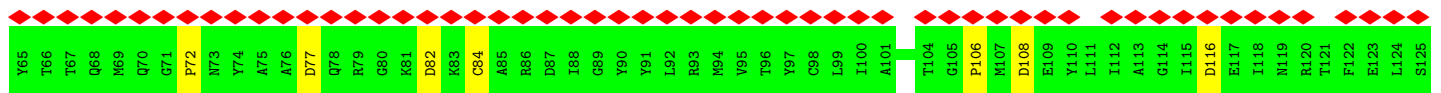
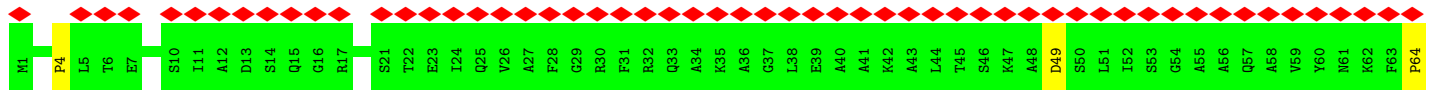
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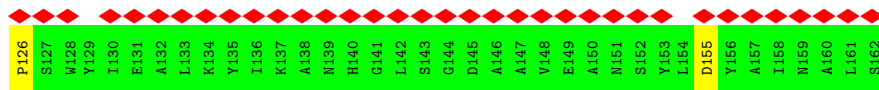


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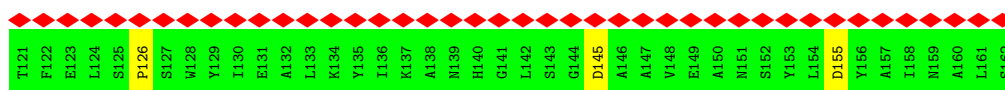
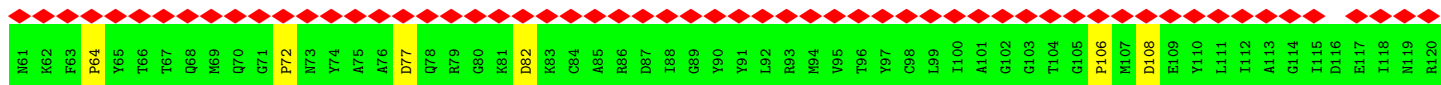
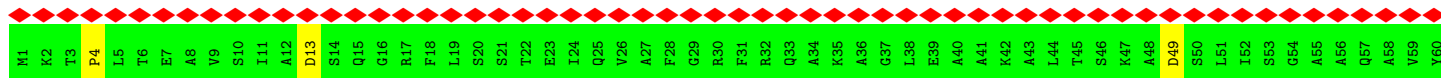


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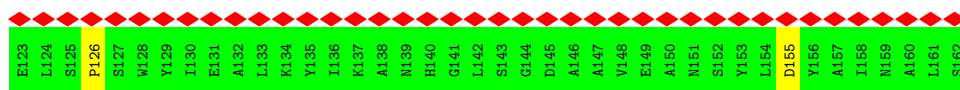
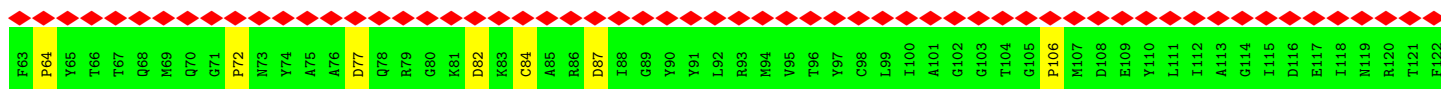
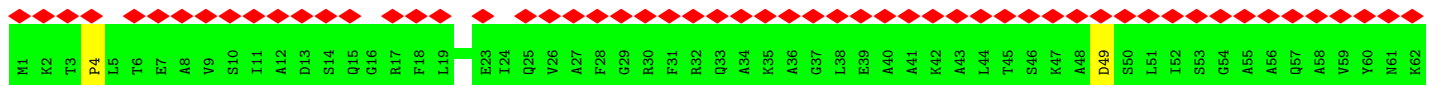
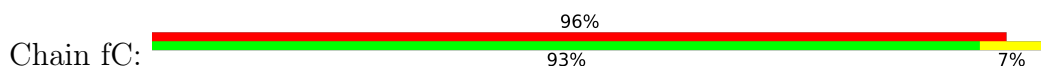




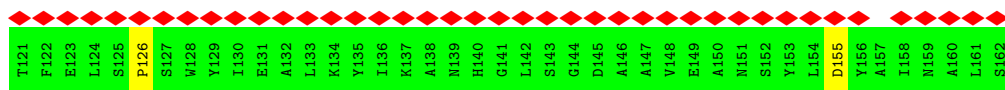
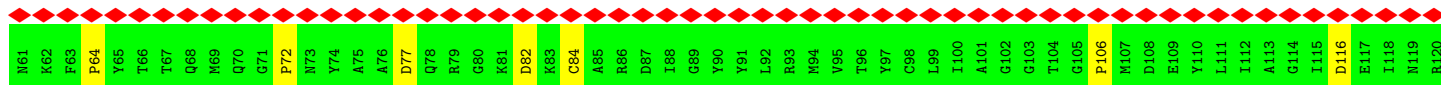
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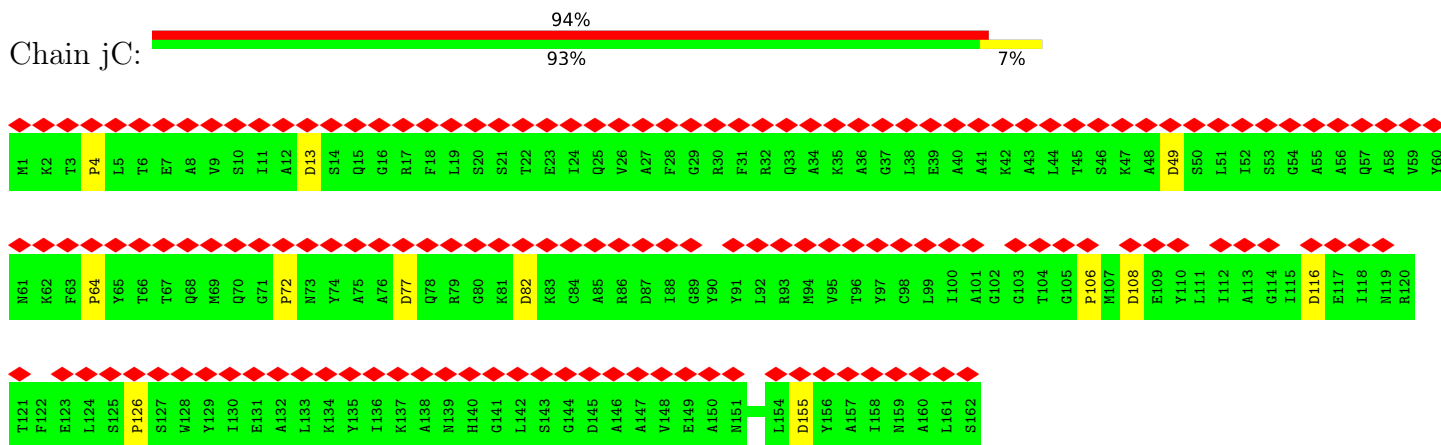
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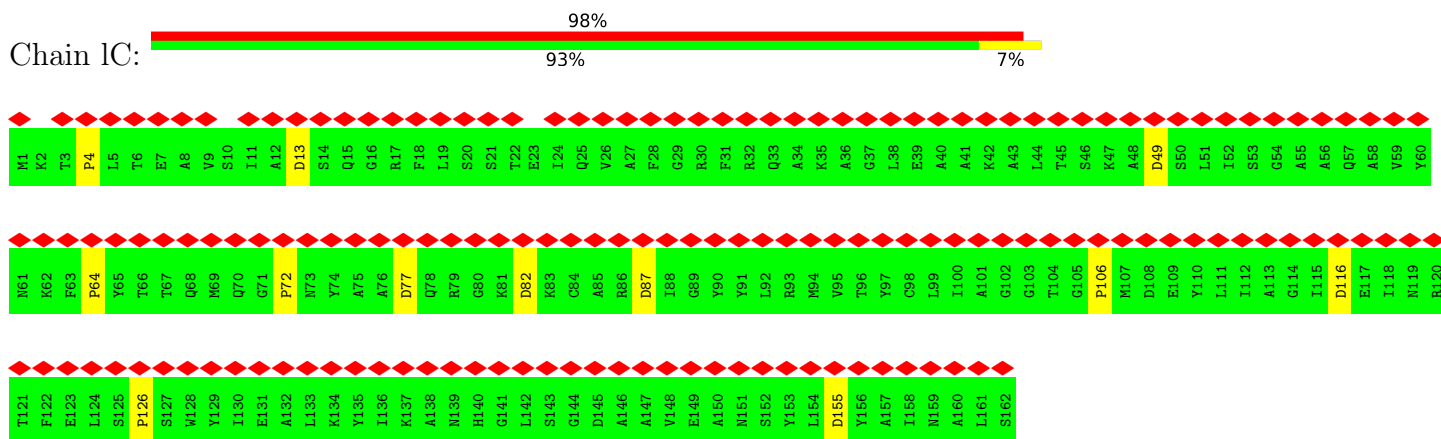
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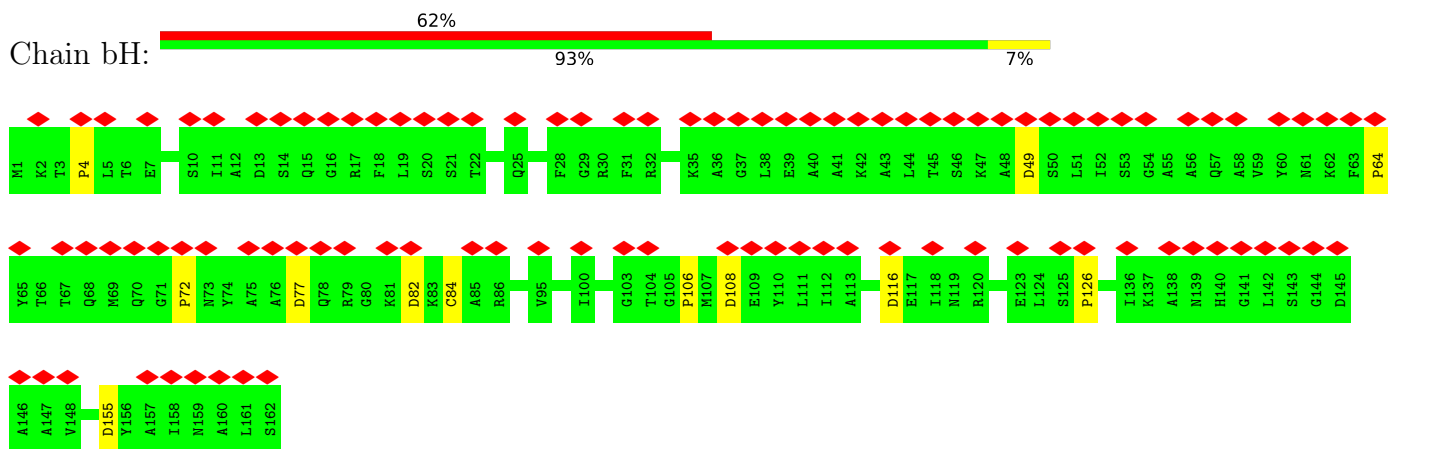
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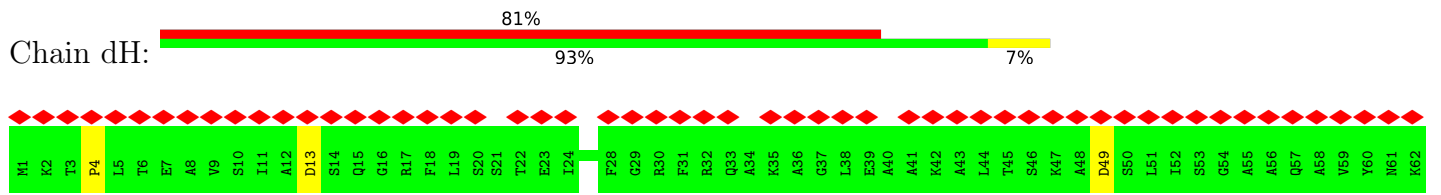
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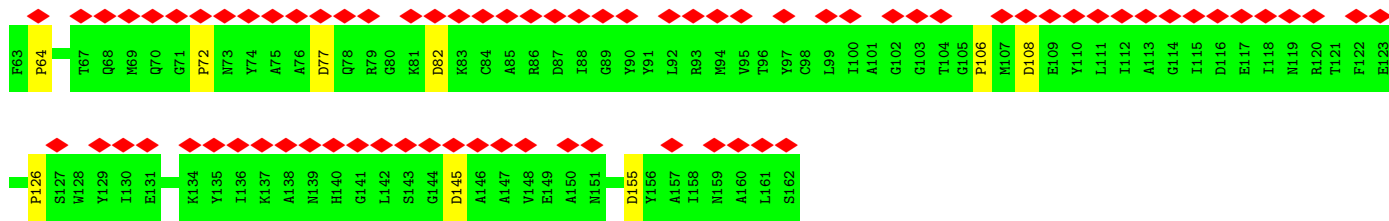


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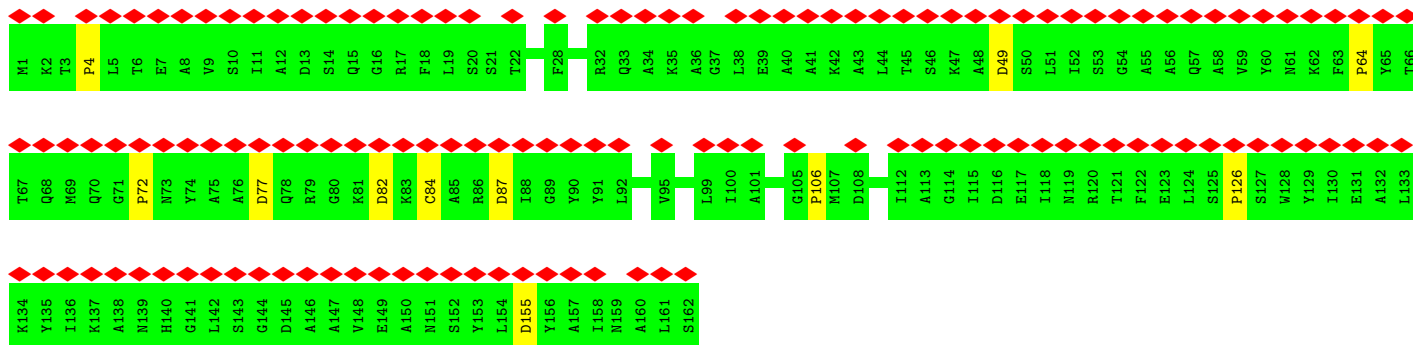
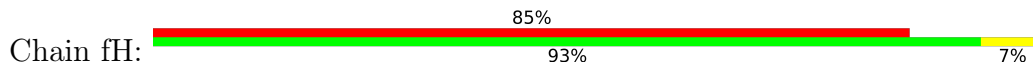


• Molecule 31: C-phycoyanin alpha subunit

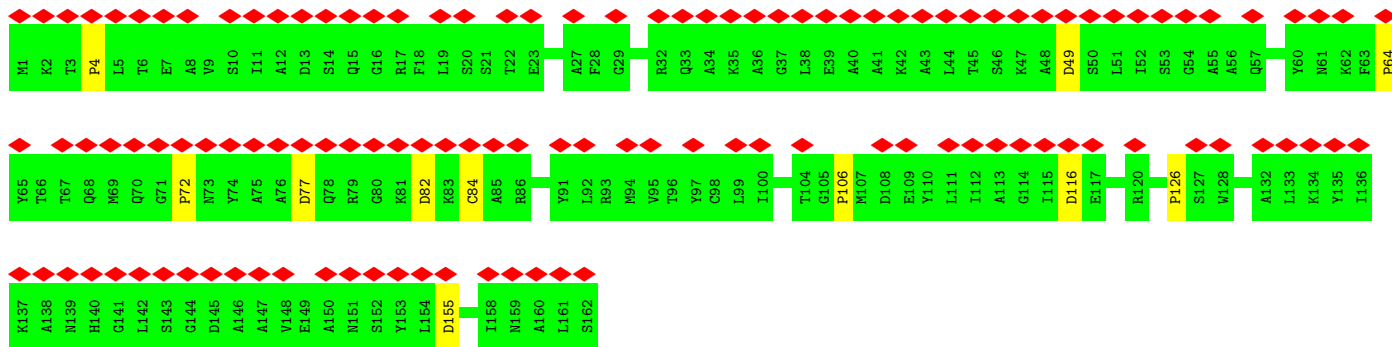
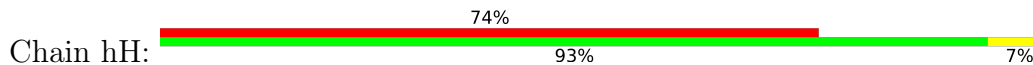




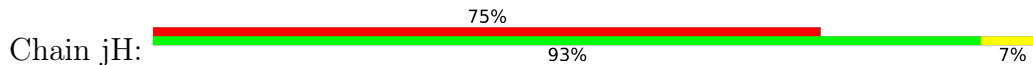
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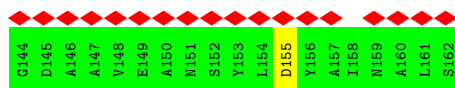


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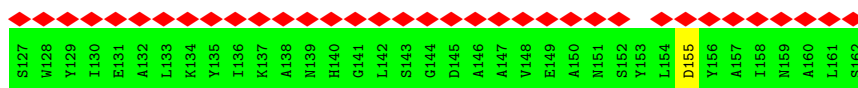
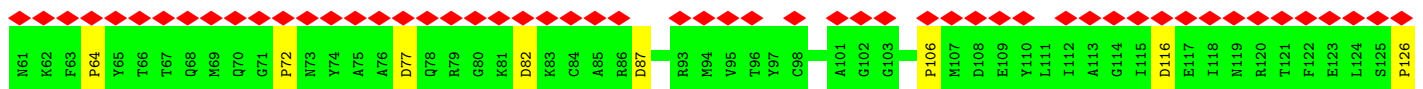
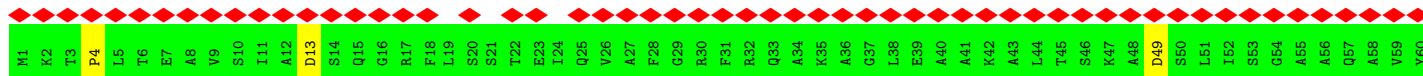
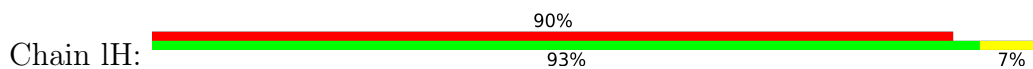


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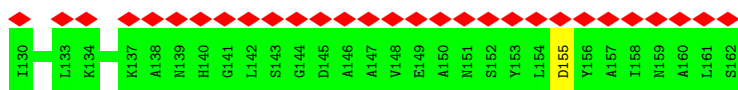
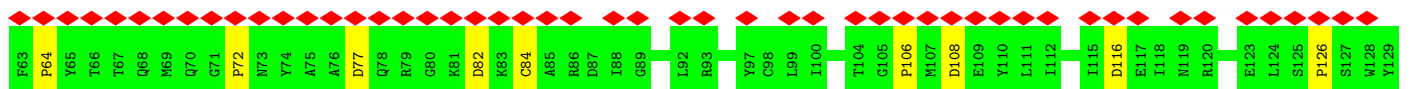
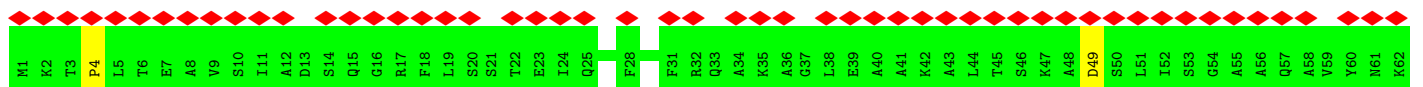
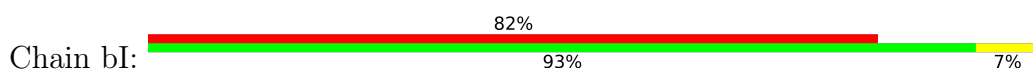




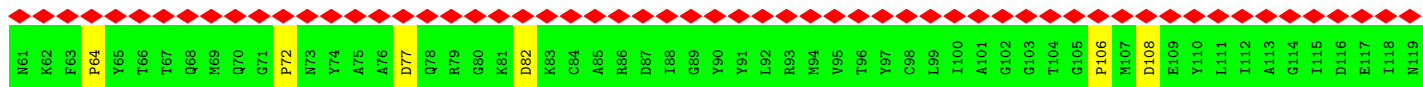
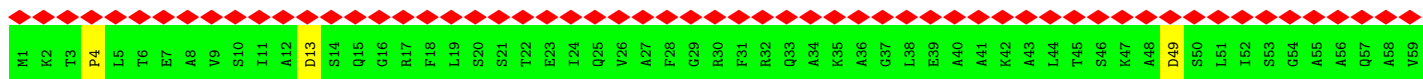
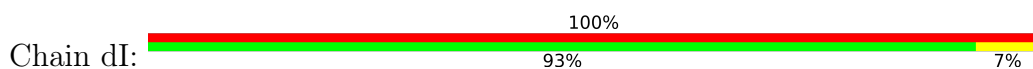
- Molecule 31: C-phycoerythrin alpha subunit



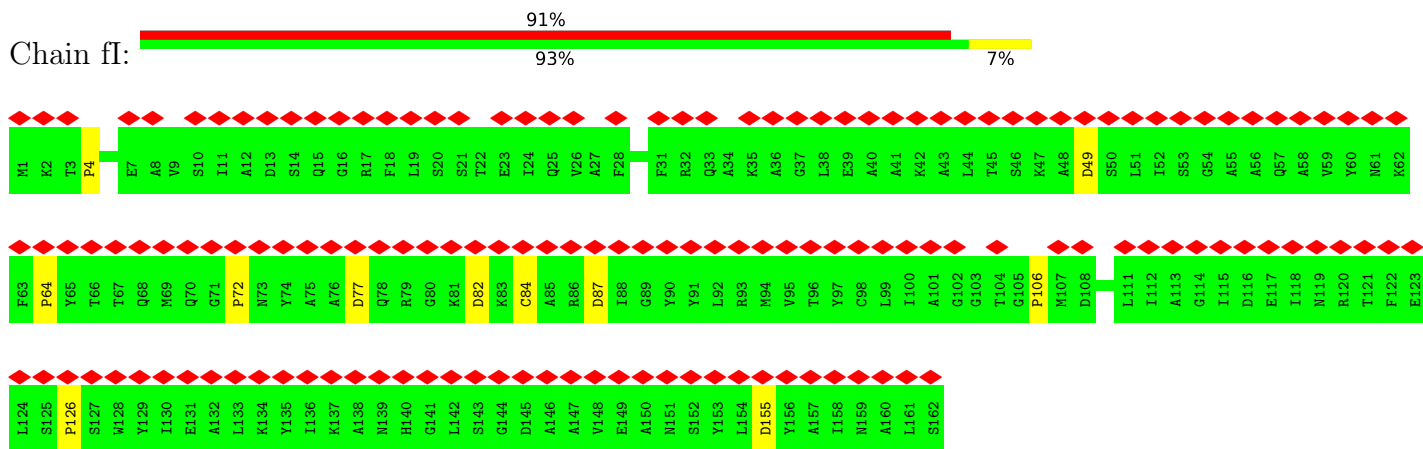
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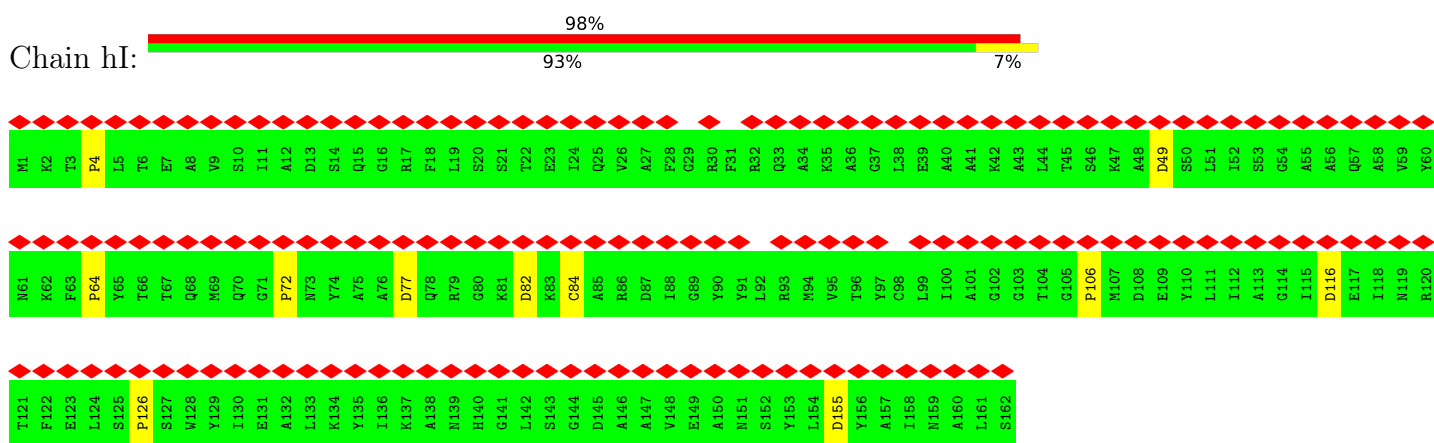
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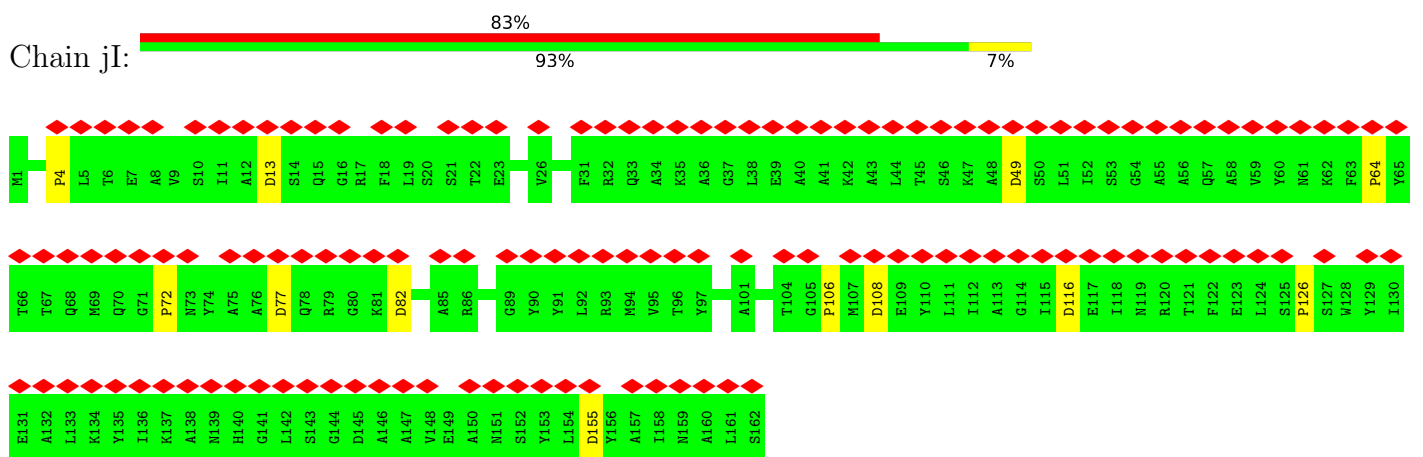
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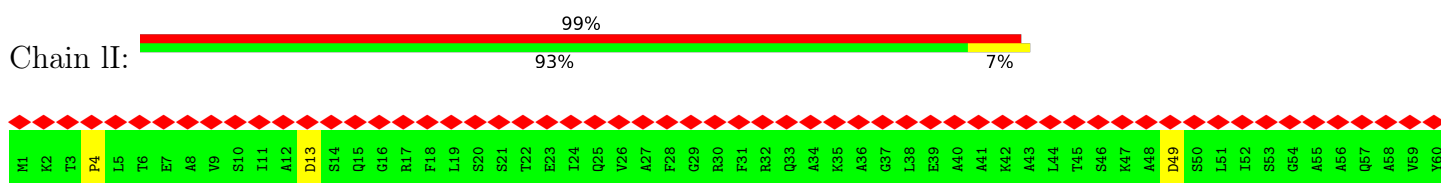
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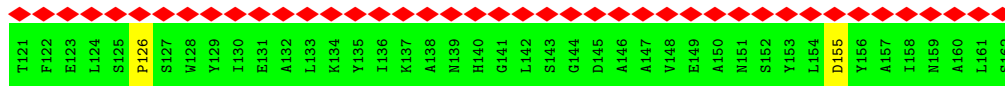
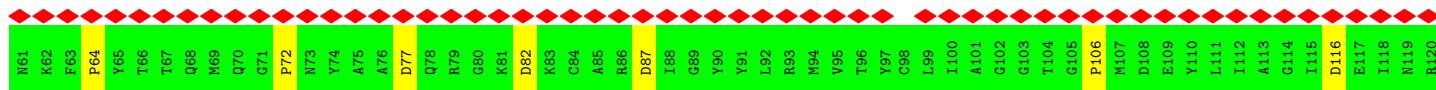


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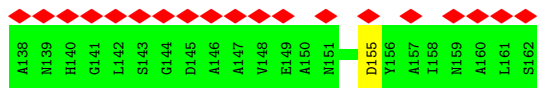
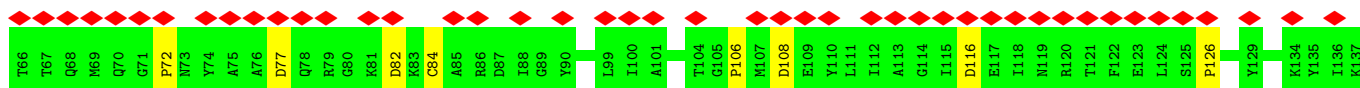
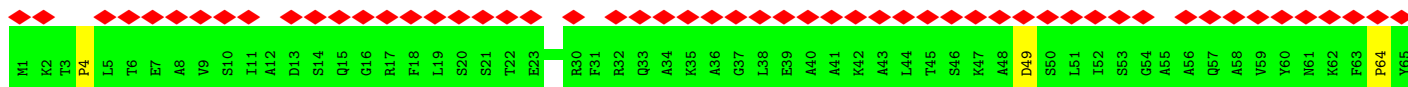
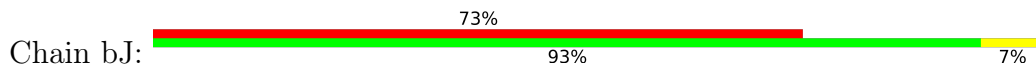


• Molecule 31: C-phycoerythrin alpha subunit

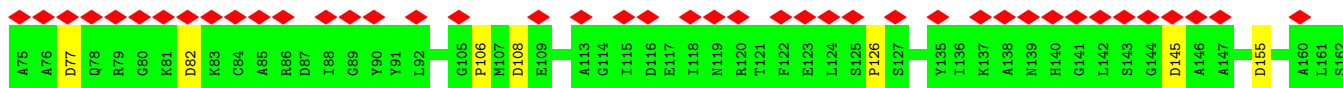
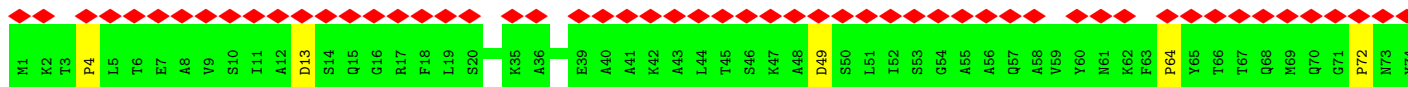




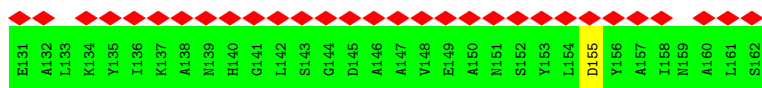
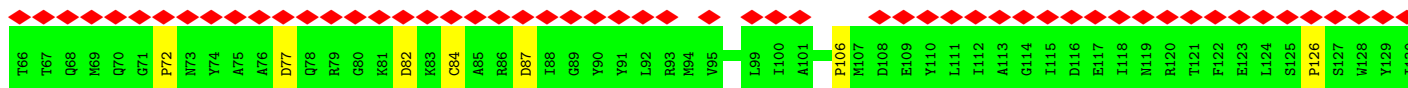
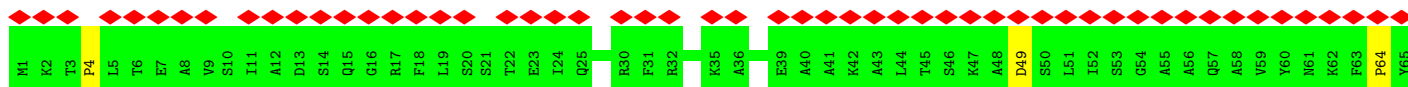
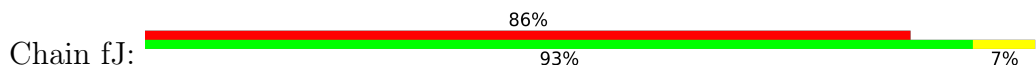
- Molecule 31: C-phycoeyanin alpha subunit



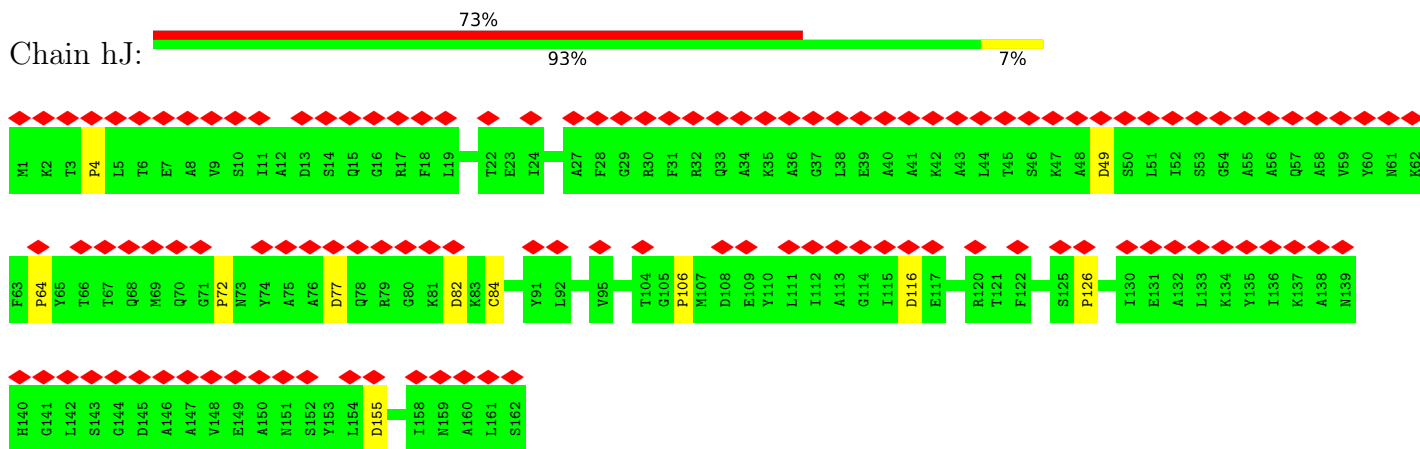
- Molecule 31: C-phycoeyanin alpha subunit



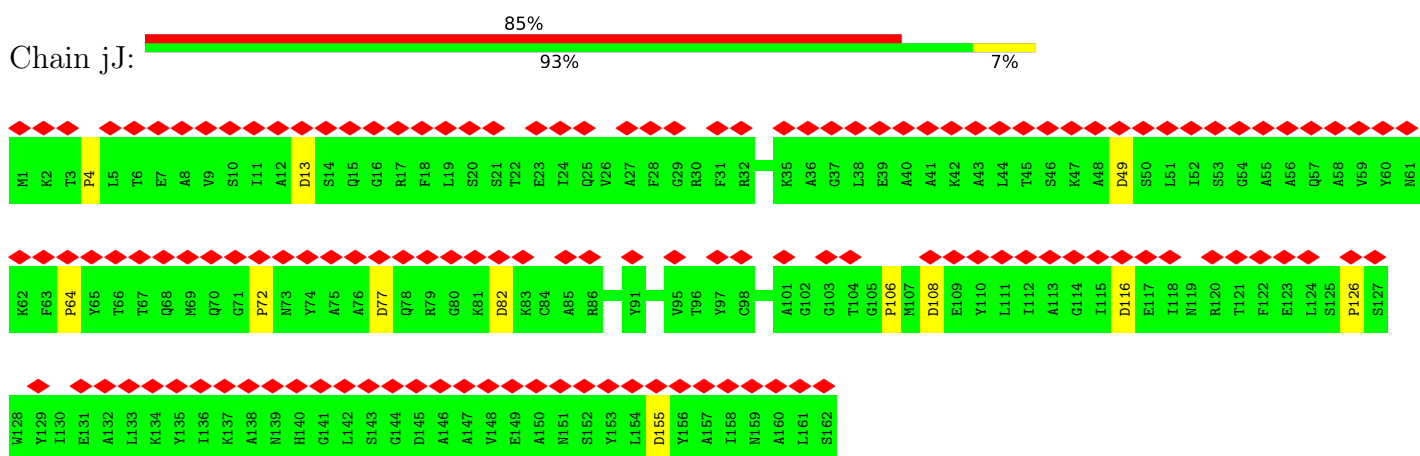
- Molecule 31: C-phycoeyanin alpha subunit



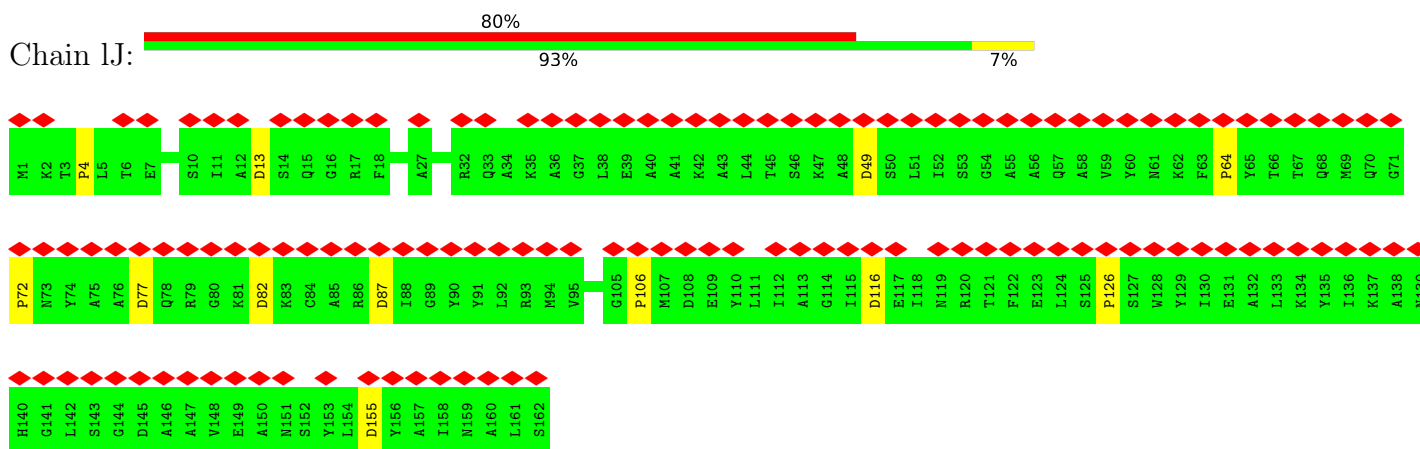
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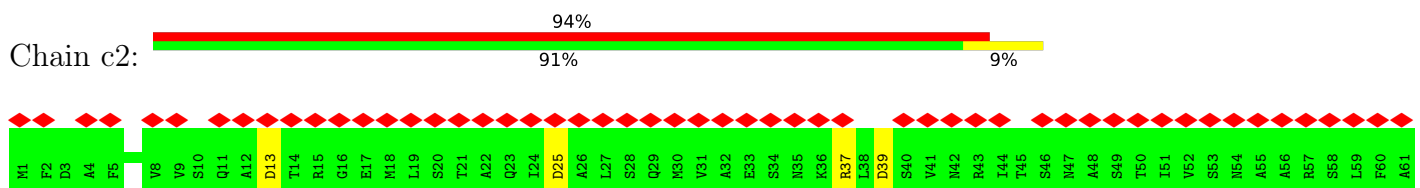
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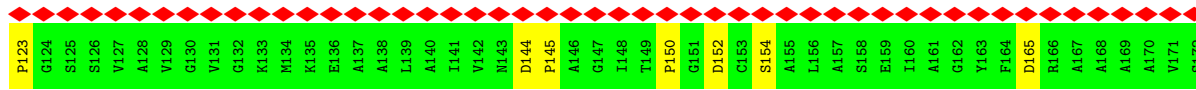
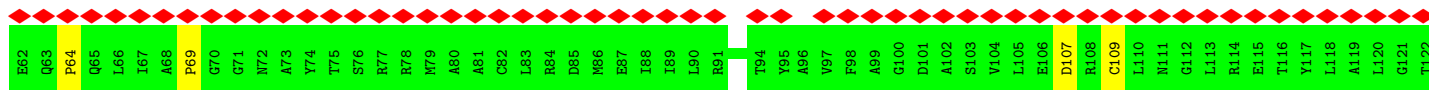


• Molecule 31: C-phycoyanin alpha subunit

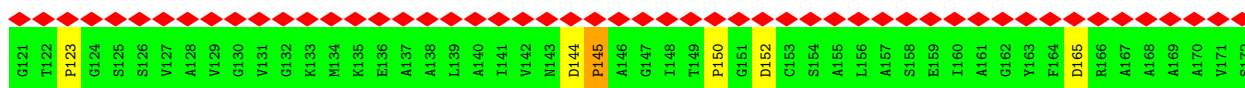
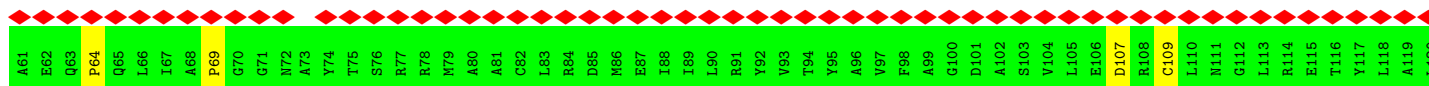
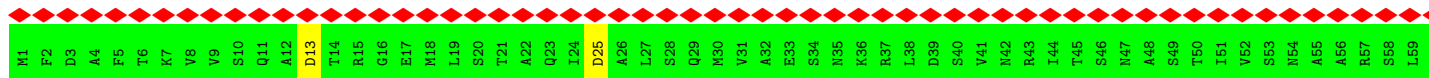
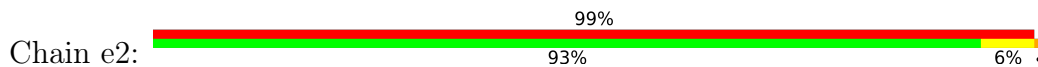


• Molecule 32: Phycoyanin beta subunit

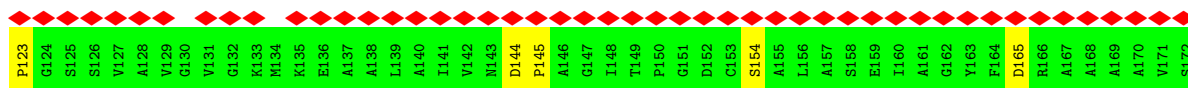
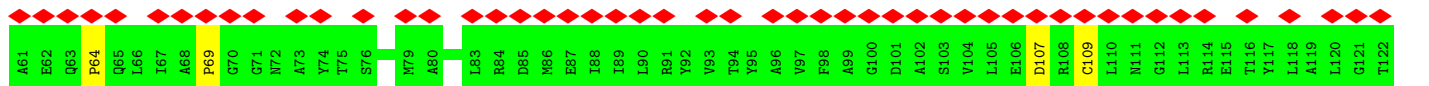
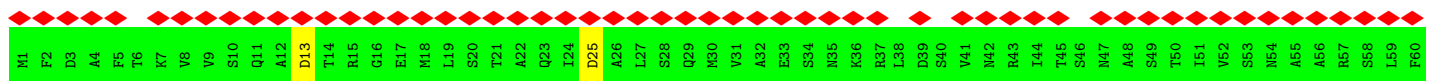




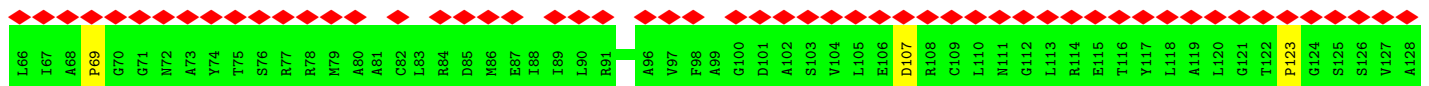
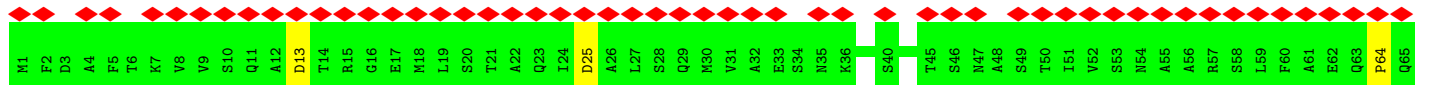
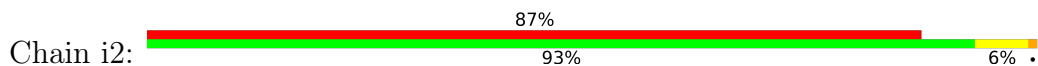
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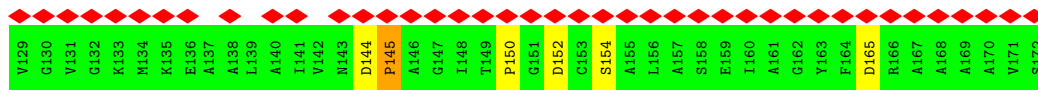


• Molecule 32: Phycocyanin beta subunit

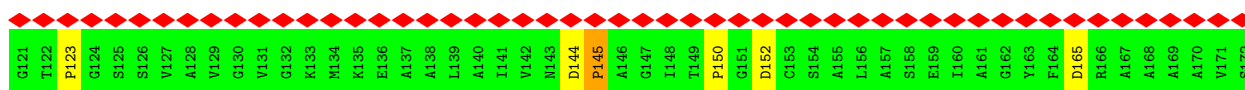
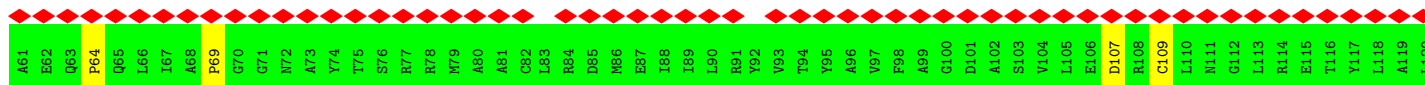
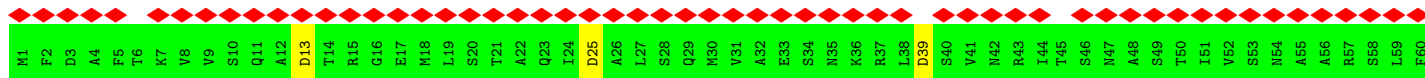
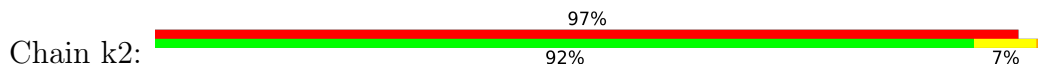


• Molecule 32: Phycocyanin beta subunit

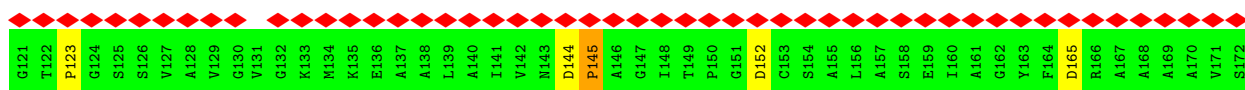
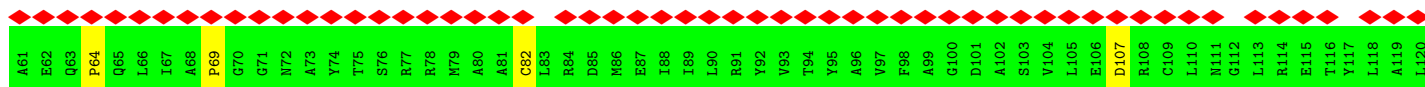
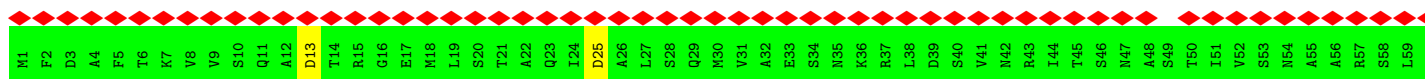




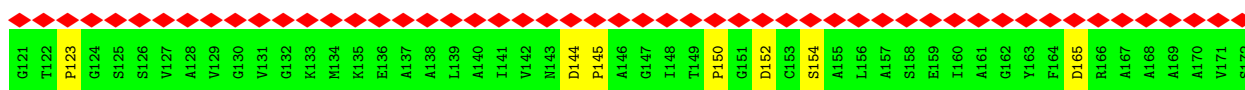
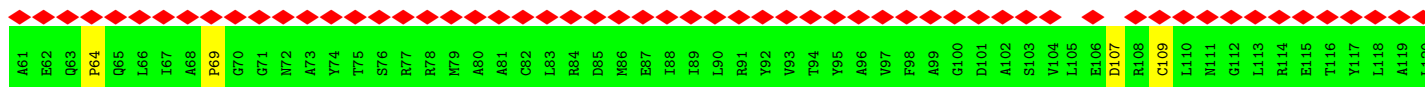
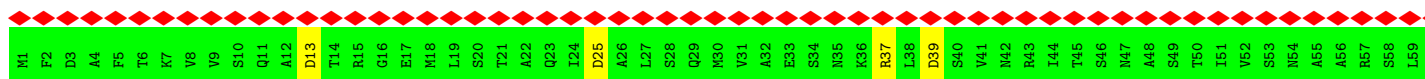
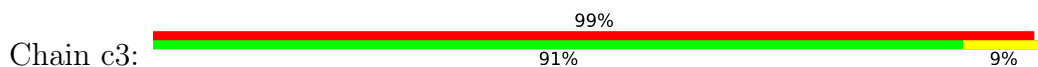
• Molecule 32: Phycocyanin beta subunit



• Molecule 32: Phycocyanin beta subunit

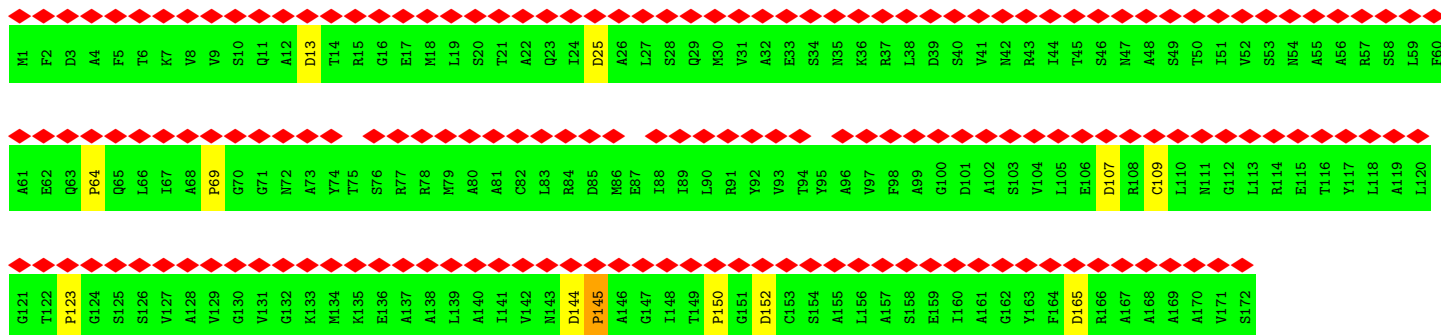


• Molecule 32: Phycocyanin beta subunit

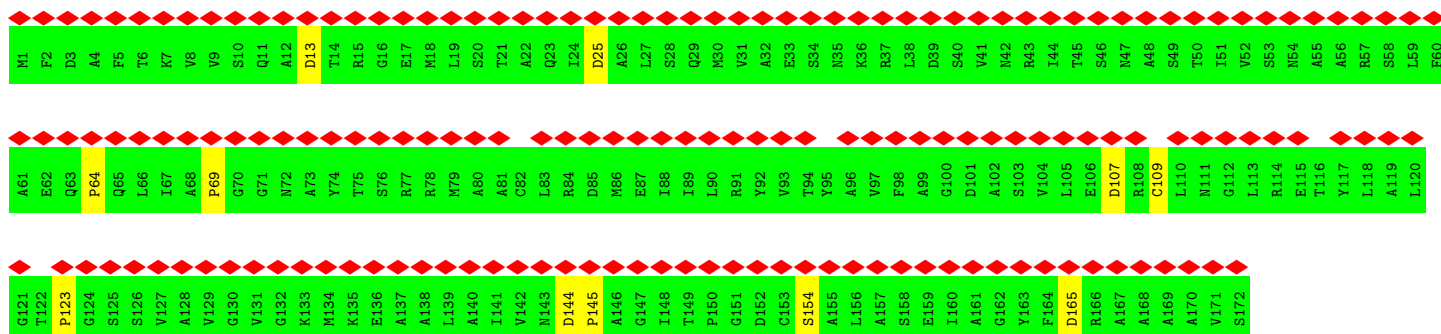
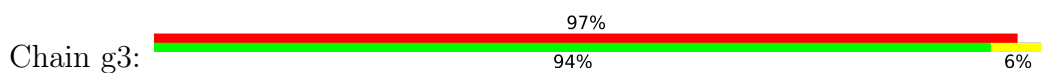


• Molecule 32: Phycocyanin beta subunit

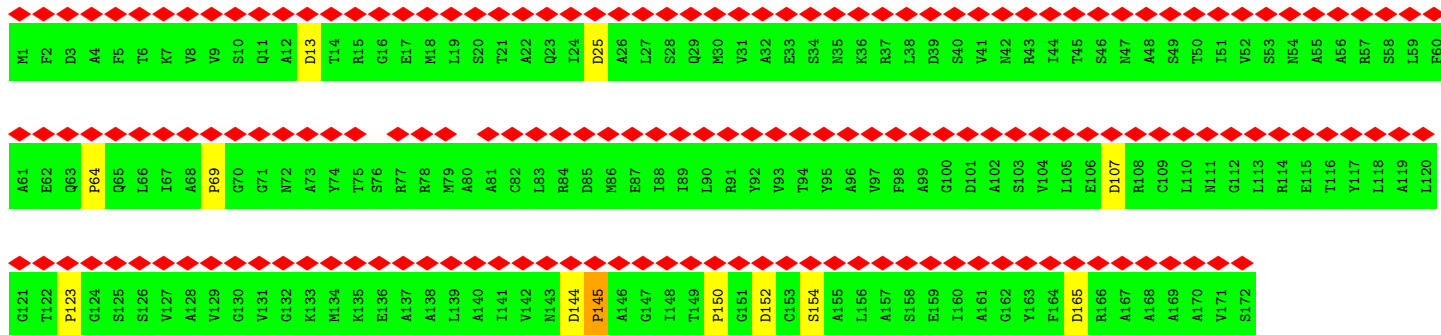
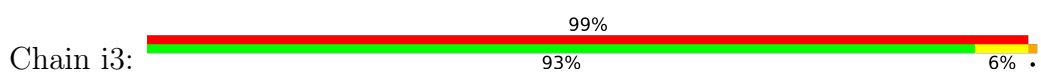




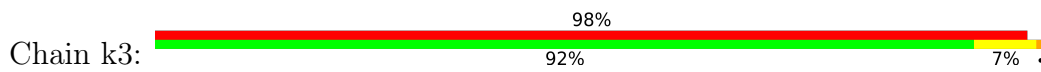
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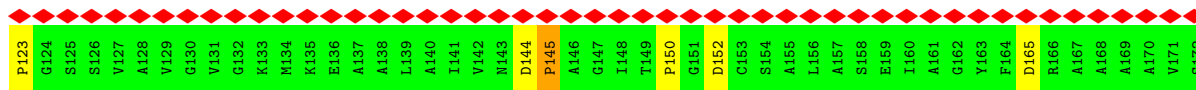


• Molecule 32: Phycocyanin beta subunit

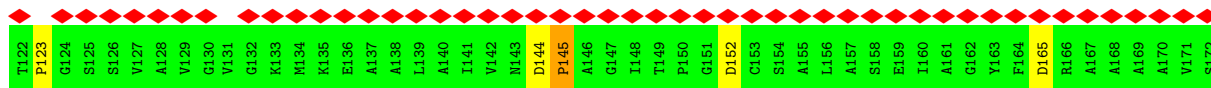
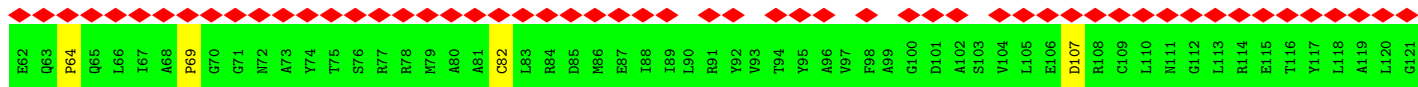
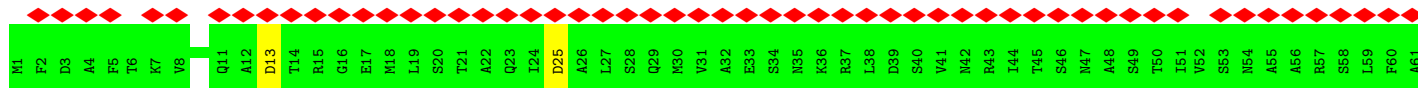


• Molecule 32: Phycocyanin beta subunit

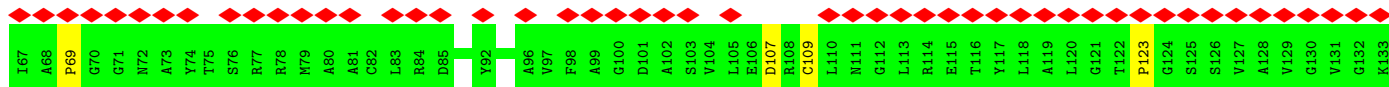
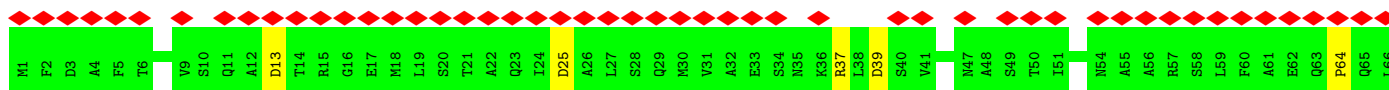
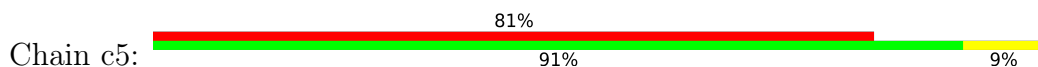




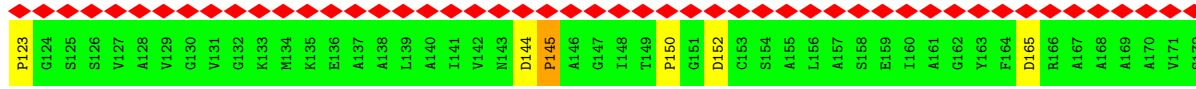
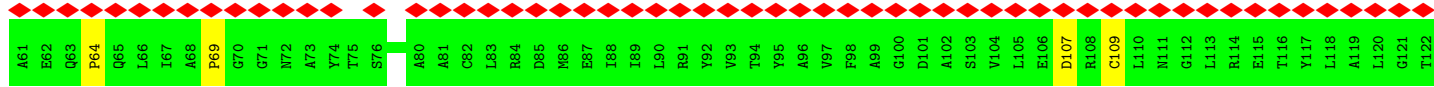
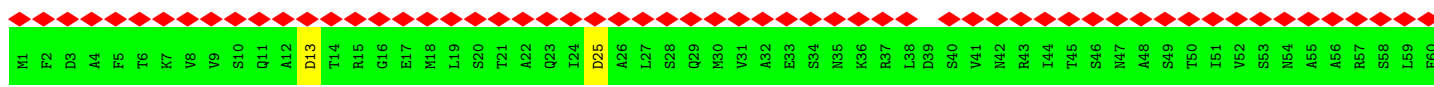
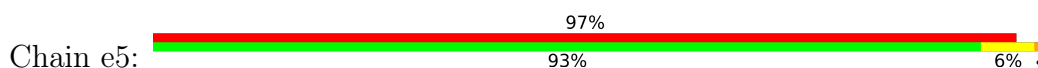
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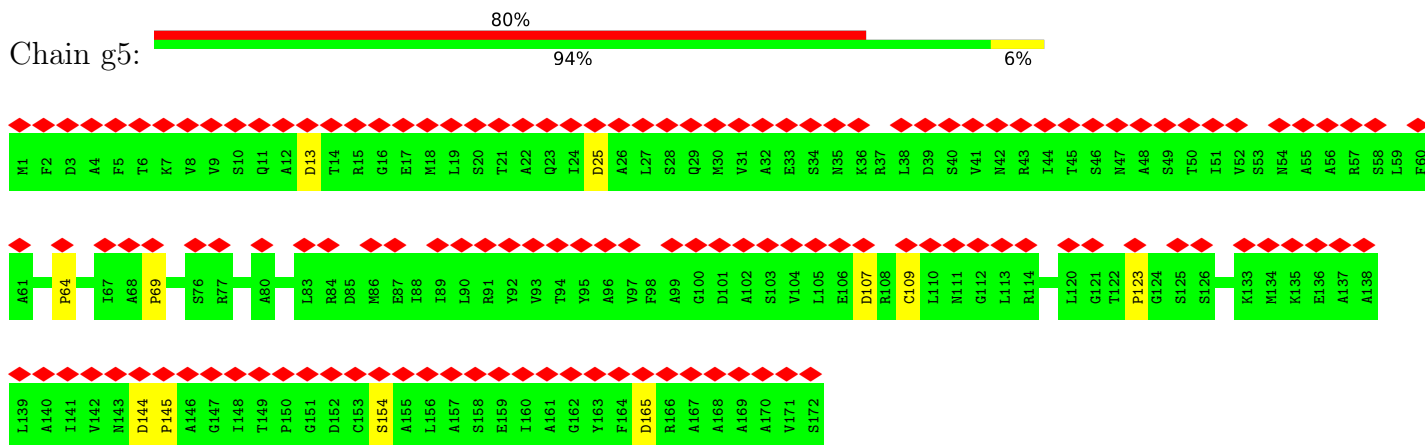
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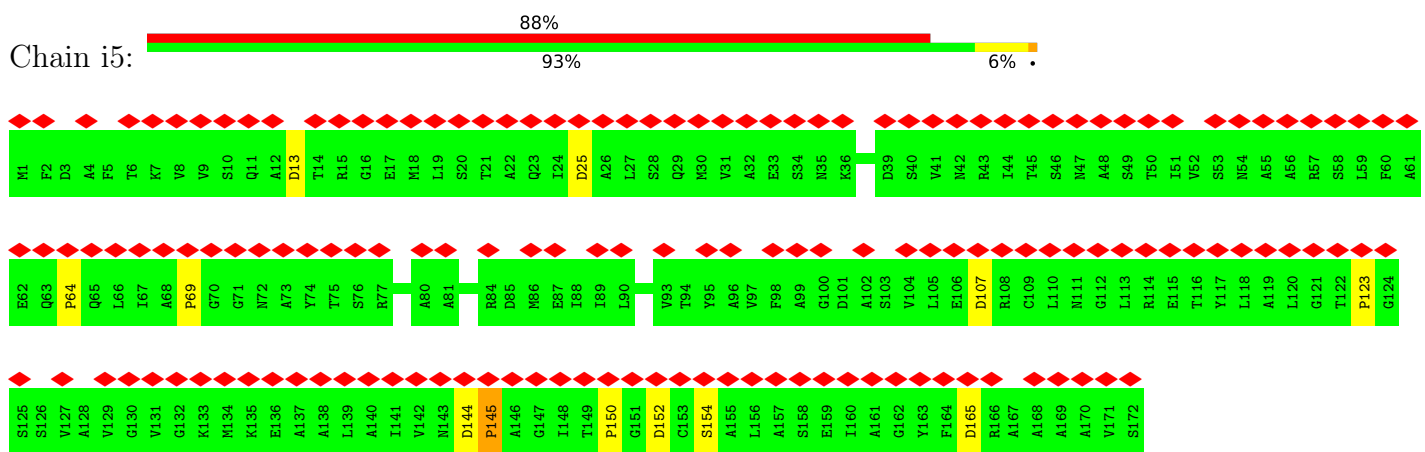
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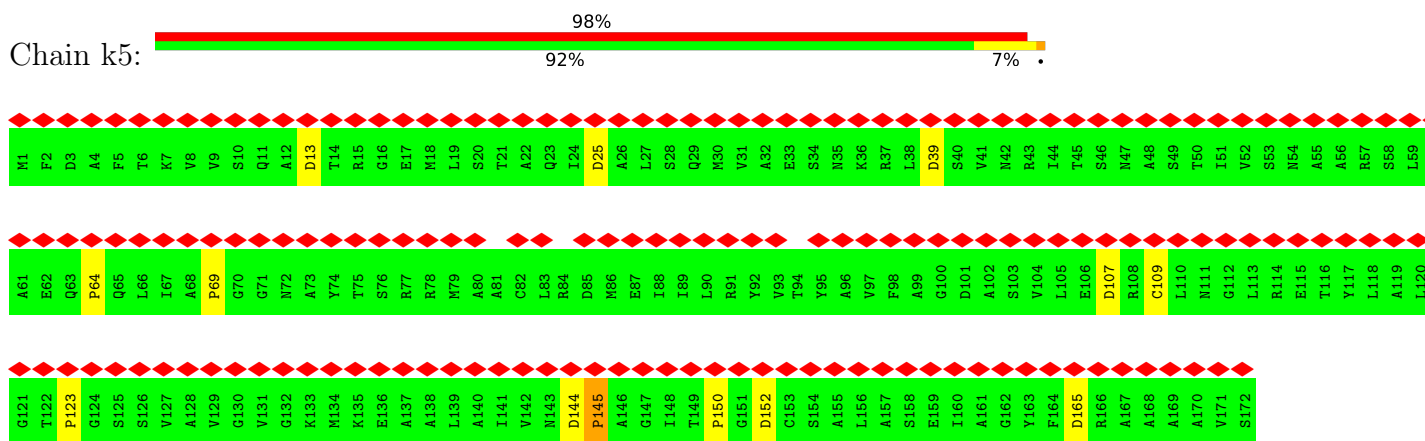
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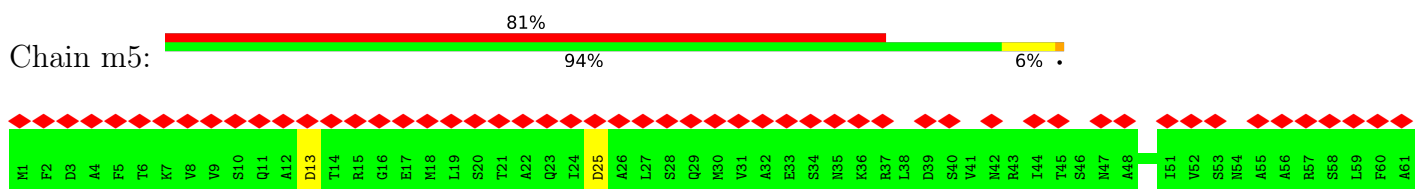
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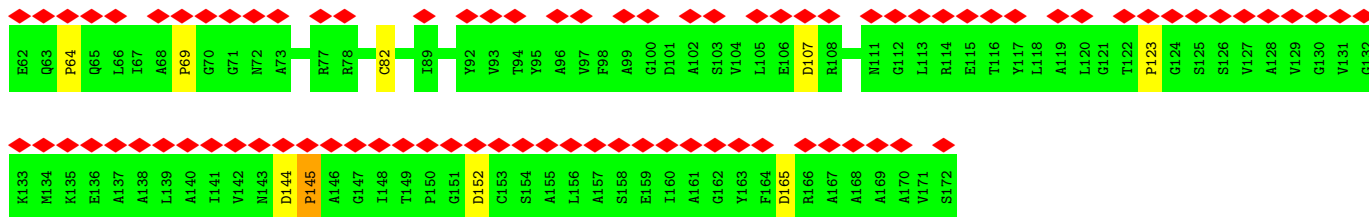


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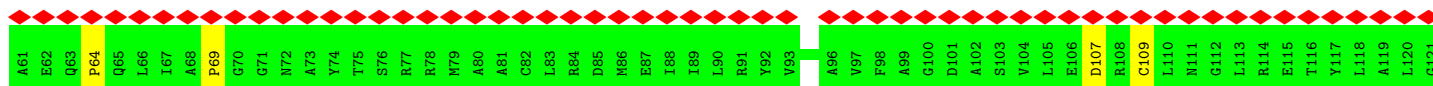
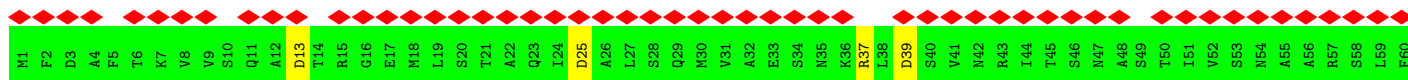
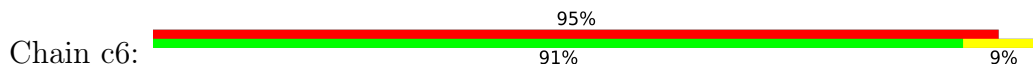


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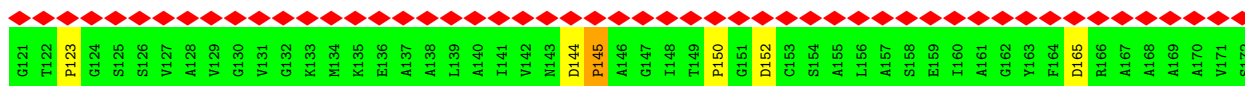
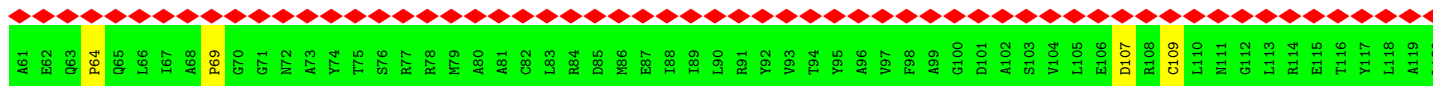
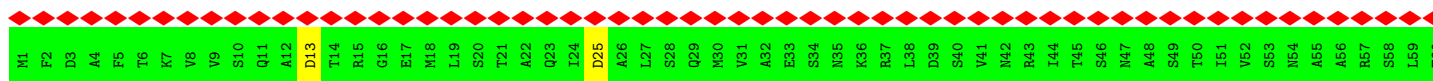




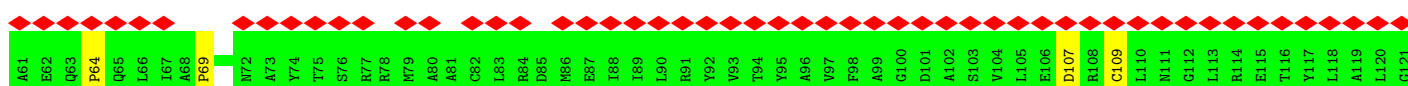
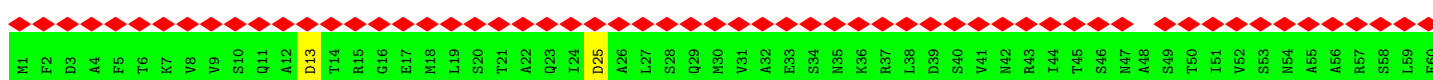
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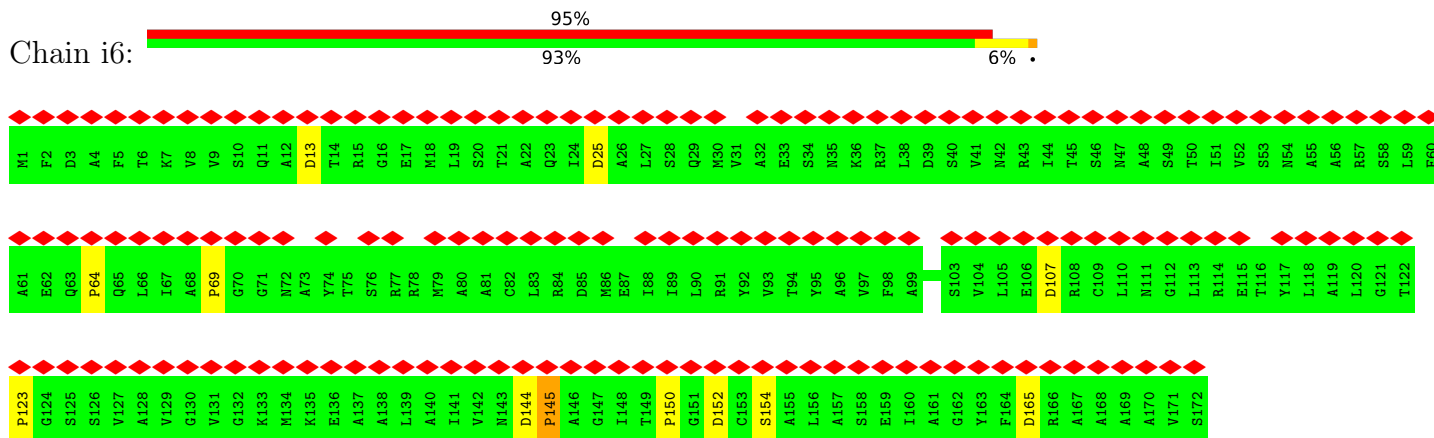
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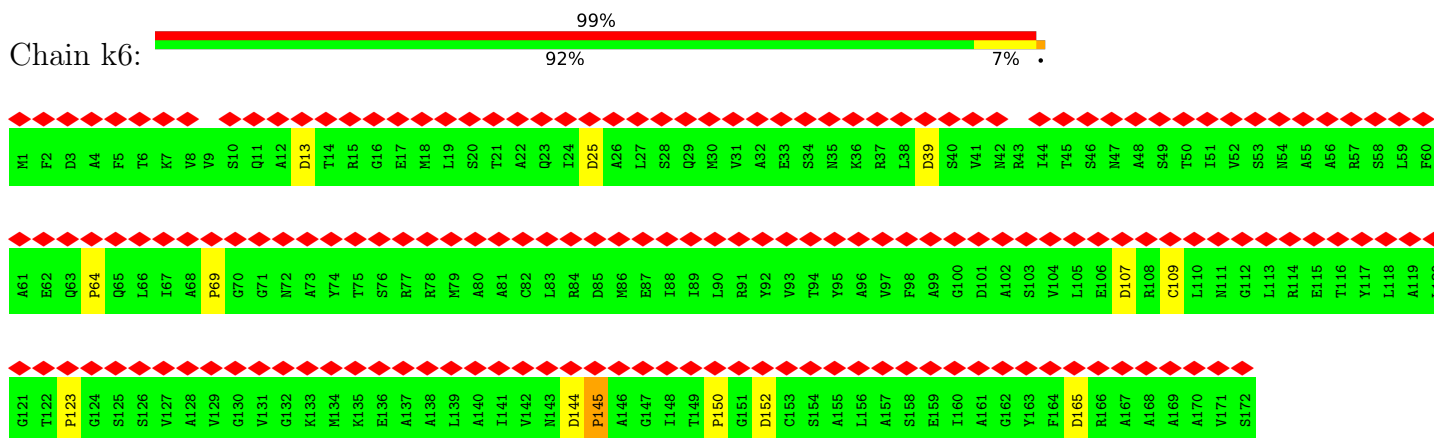
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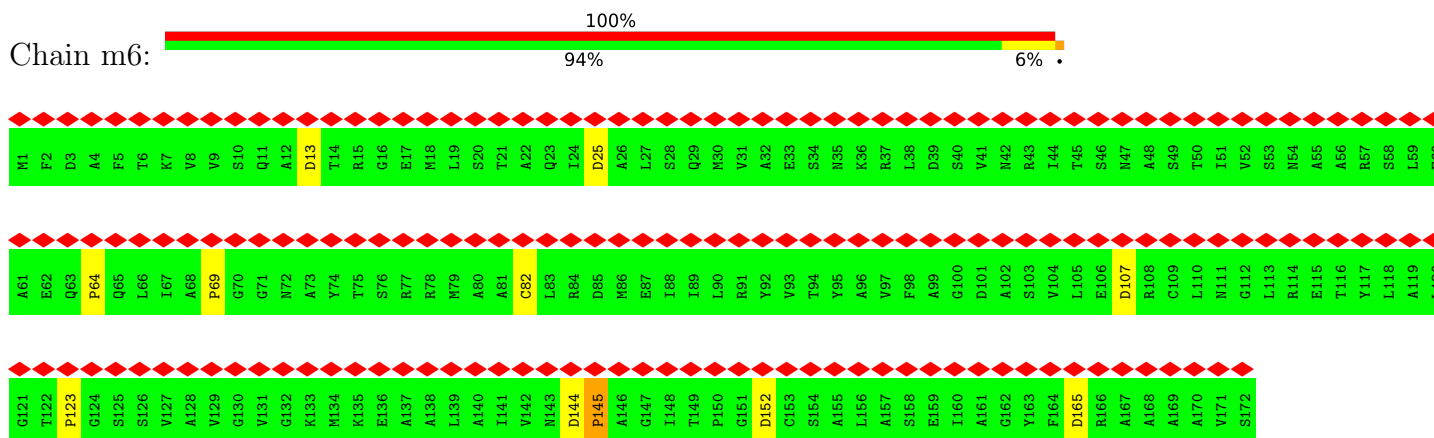
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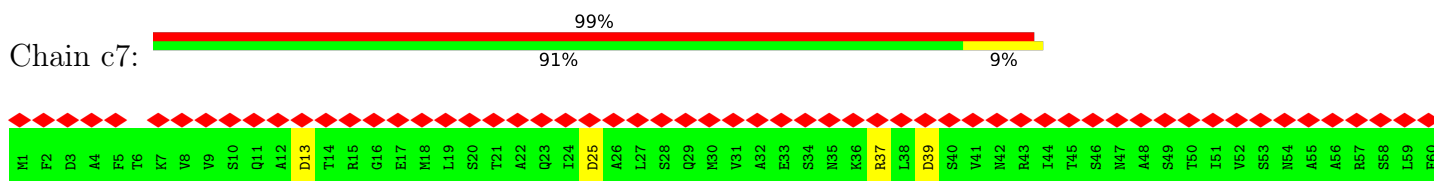
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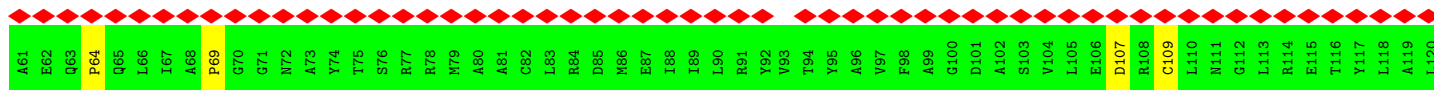


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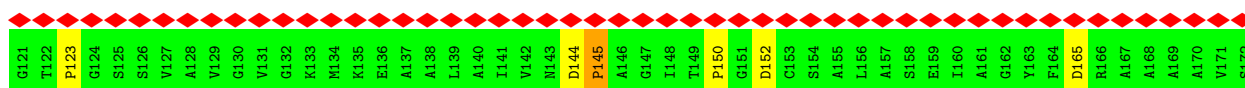
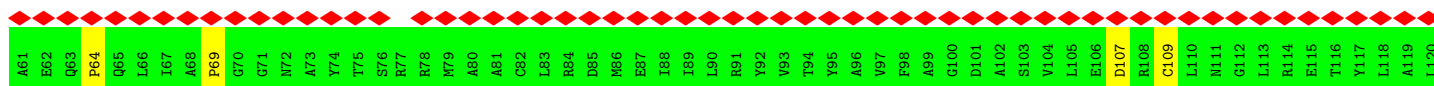
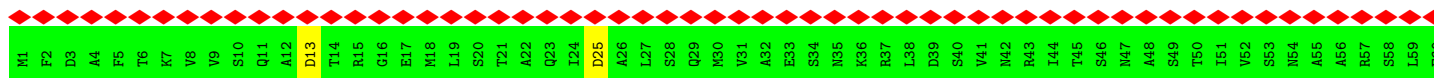
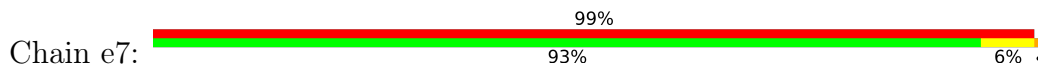


• Molecule 32: Phycocyanin beta subunit

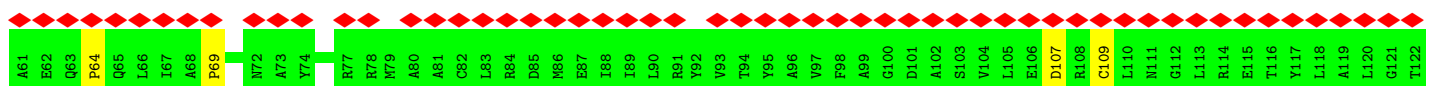
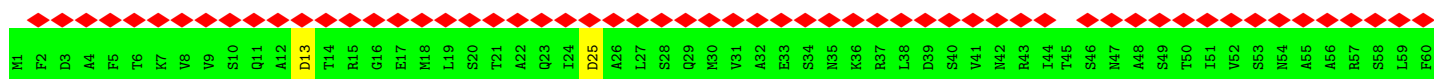




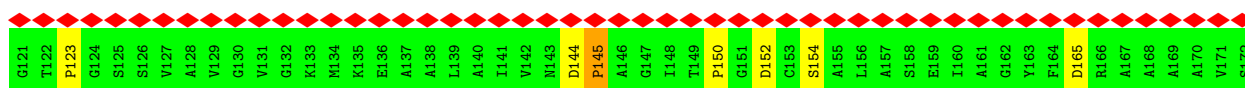
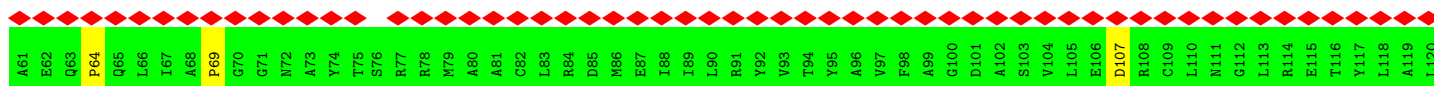
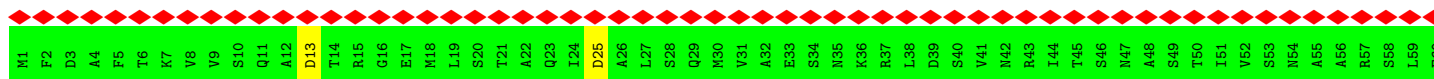
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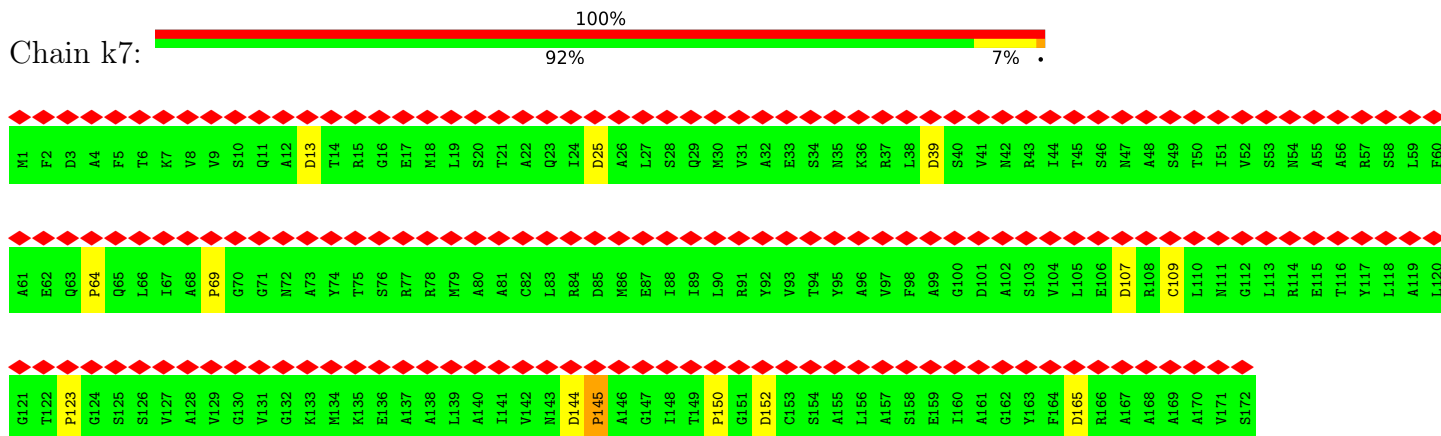
• Molecule 32: Phycocyanin beta subunit



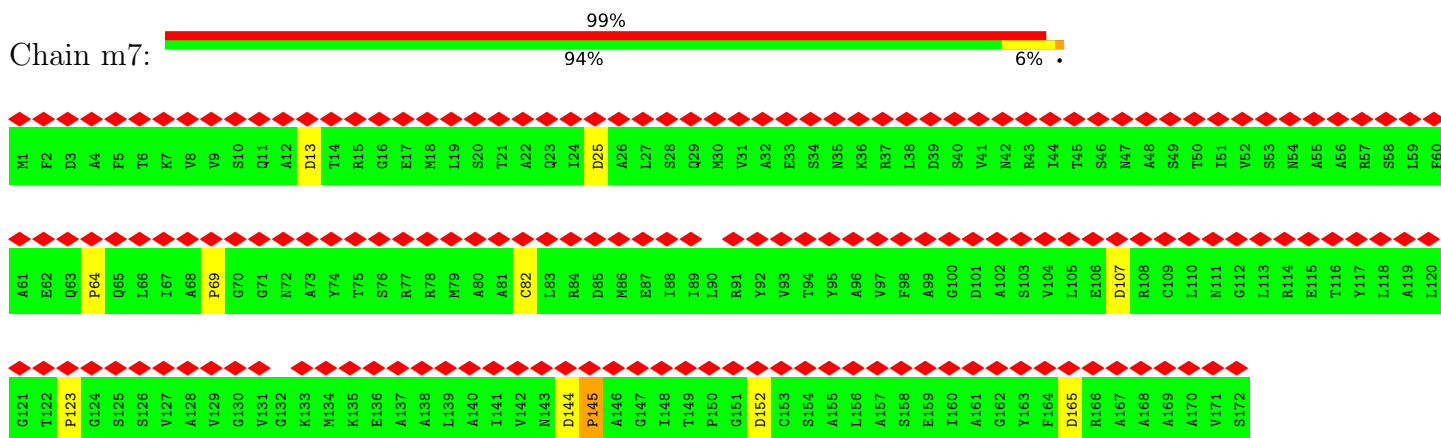
• Molecule 32: Phycocyanin beta subunit



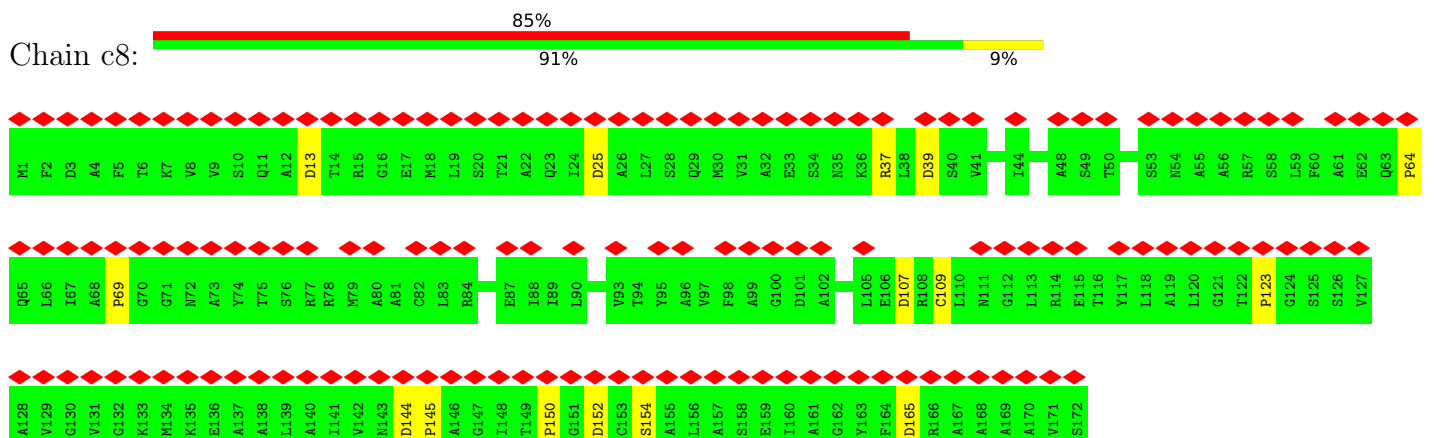
• Molecule 32: Phycocyanin beta subunit



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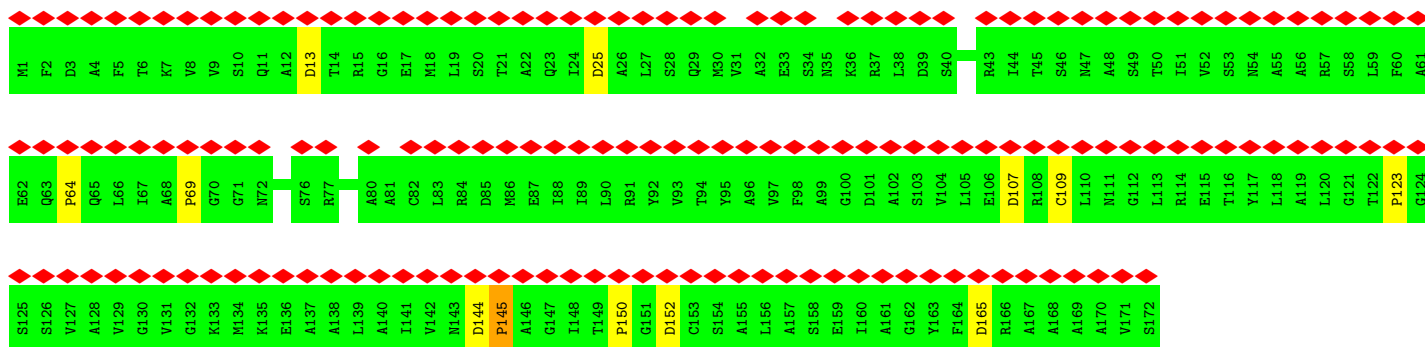


• Molecule 32: Phycocyanin beta subunit

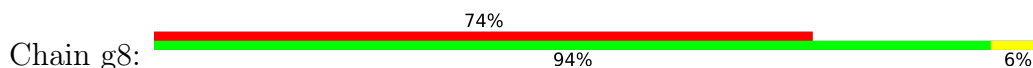


• Molecule 32: Phycocyanin beta subunit

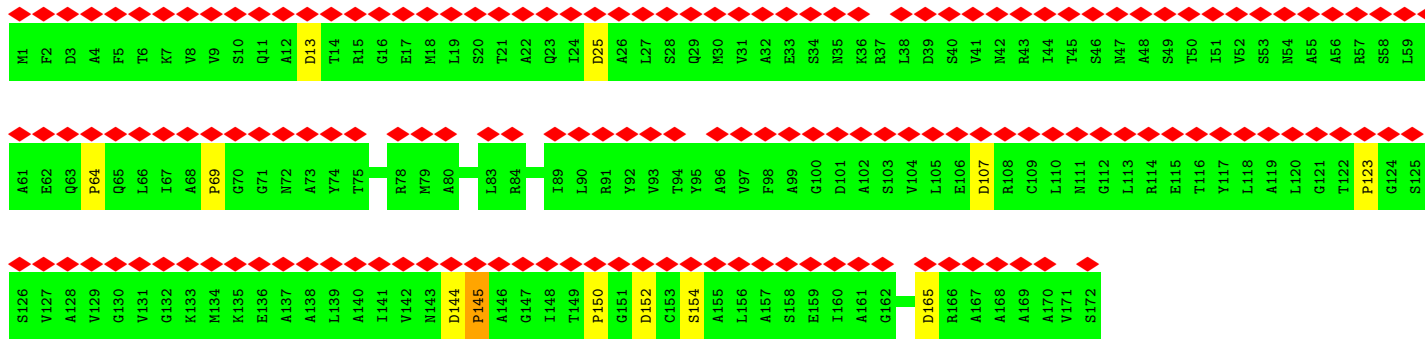
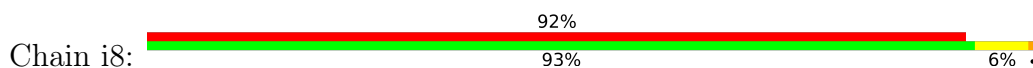




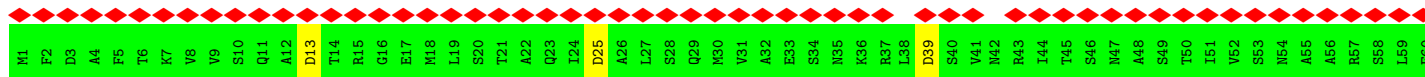
• Molecule 32: Phycocyanin beta subunit

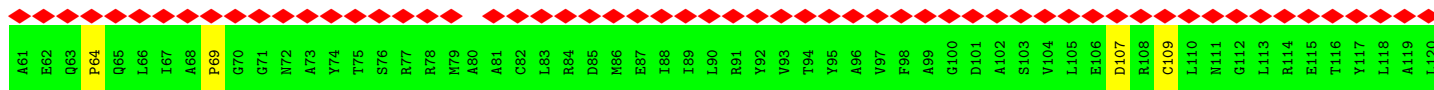


• Molecule 32: Phycocyanin beta subunit

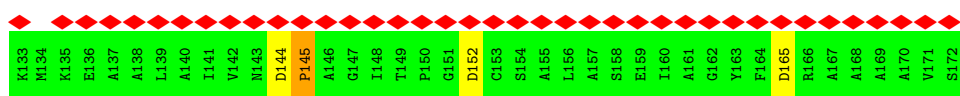
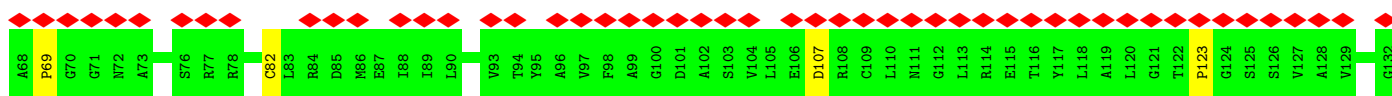
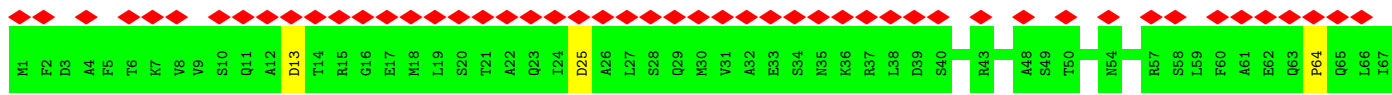
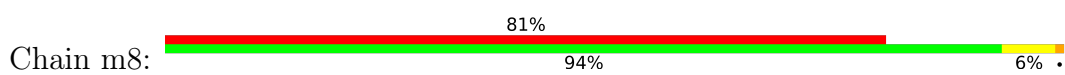


• Molecule 32: Phycocyanin beta subunit

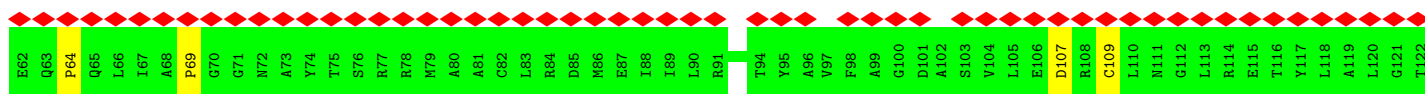
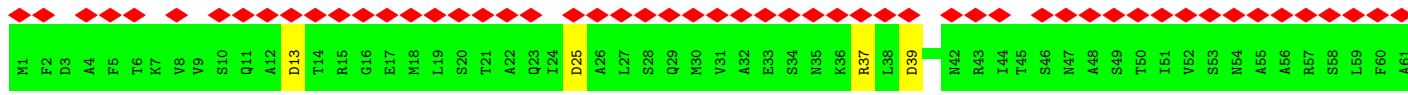
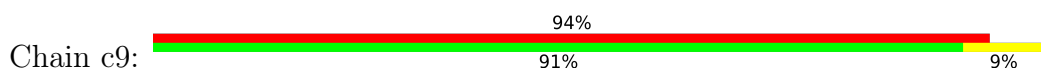




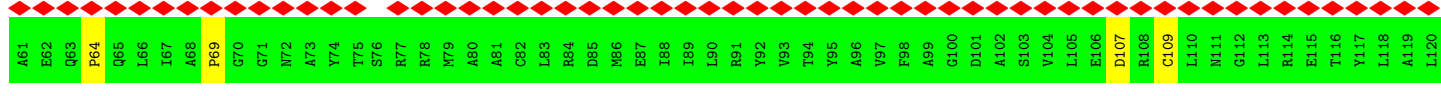
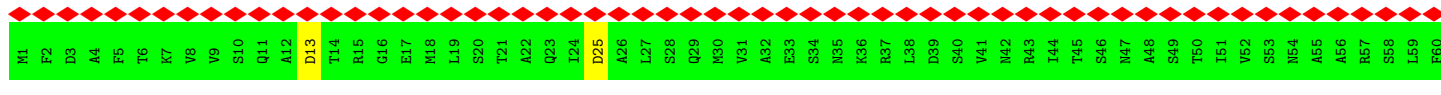
• Molecule 32: Phycocyanin beta subunit



• Molecule 32: Phycocyanin beta subunit

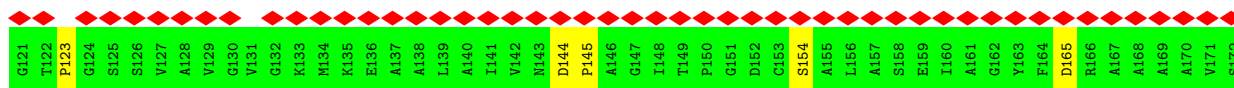
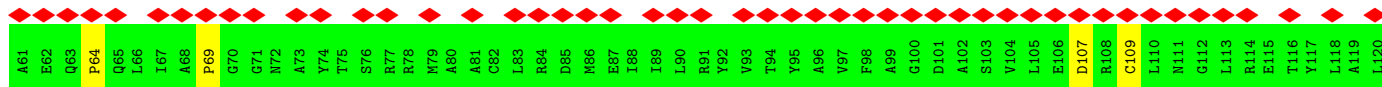
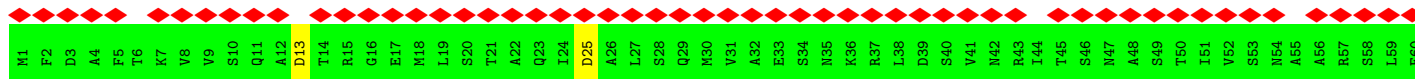
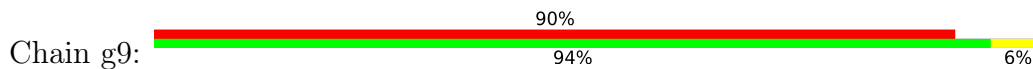


• Molecule 32: Phycocyanin beta subunit

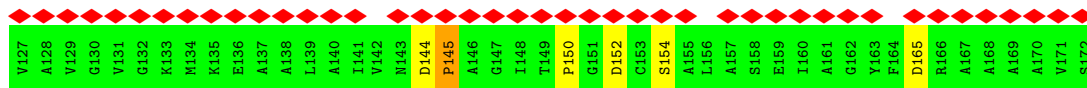
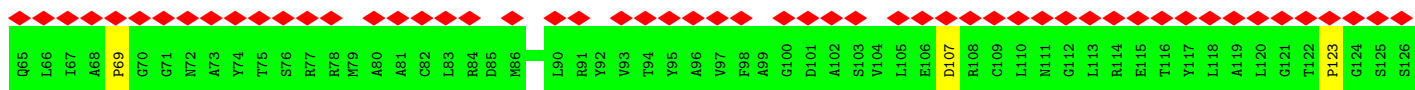
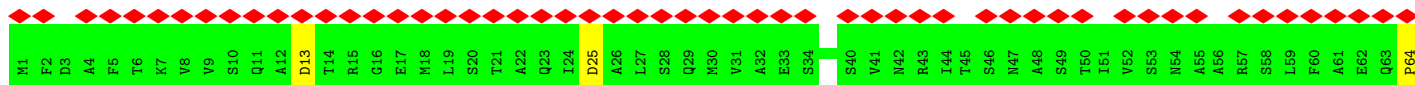
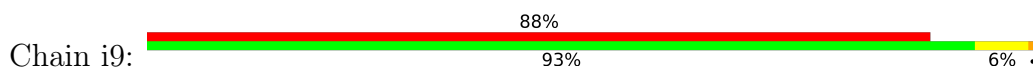




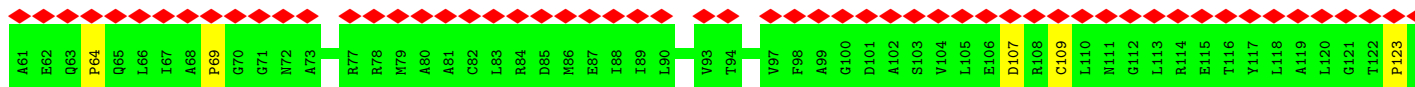
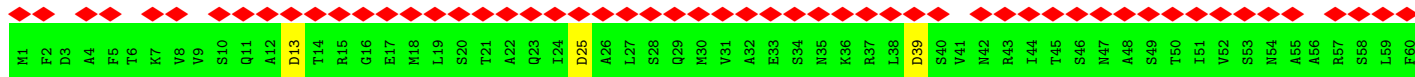
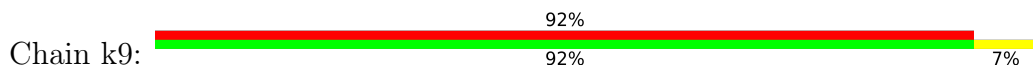
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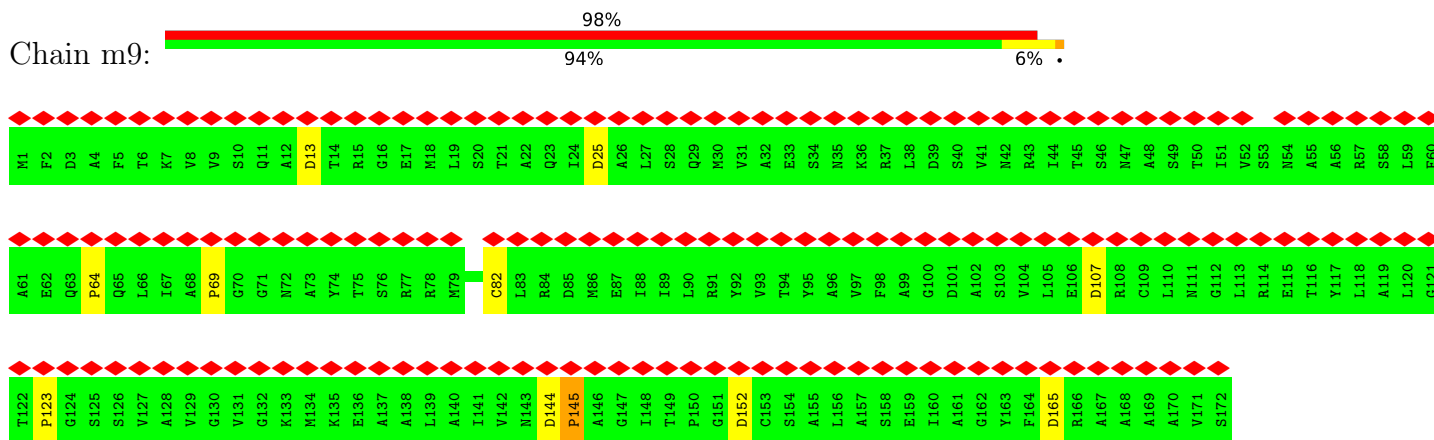
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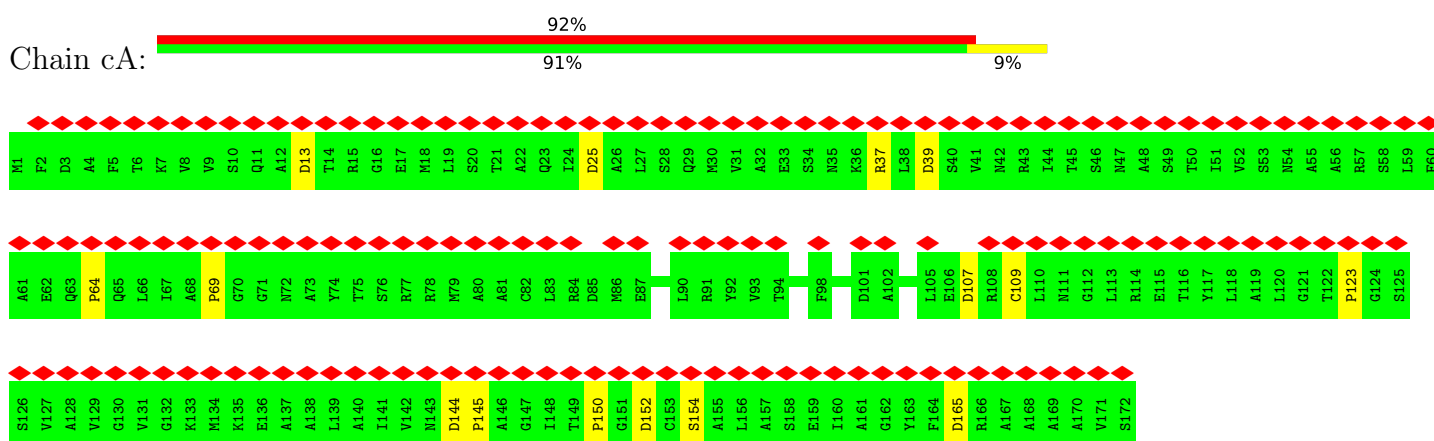
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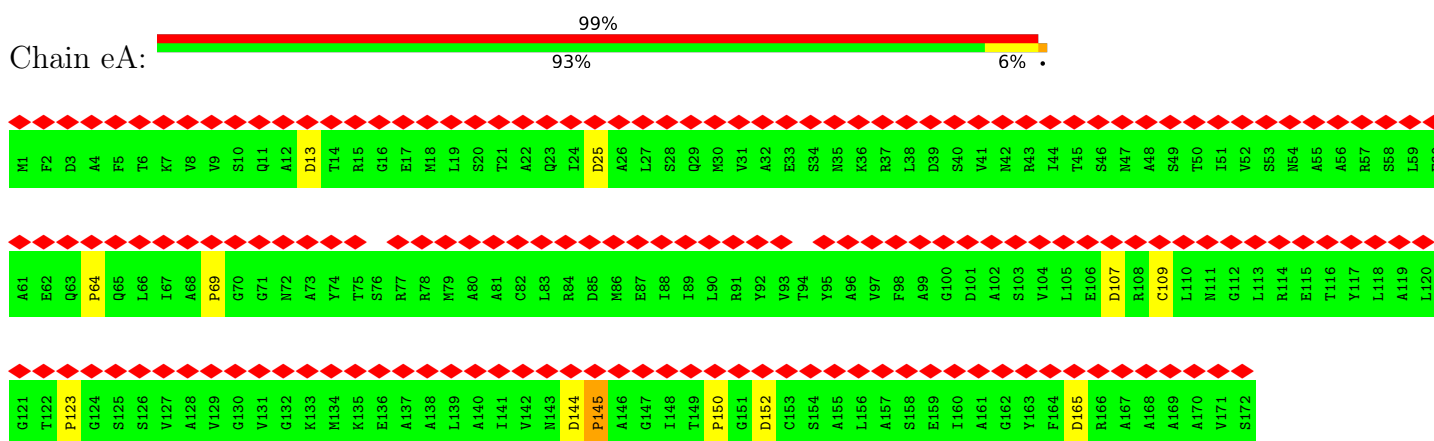
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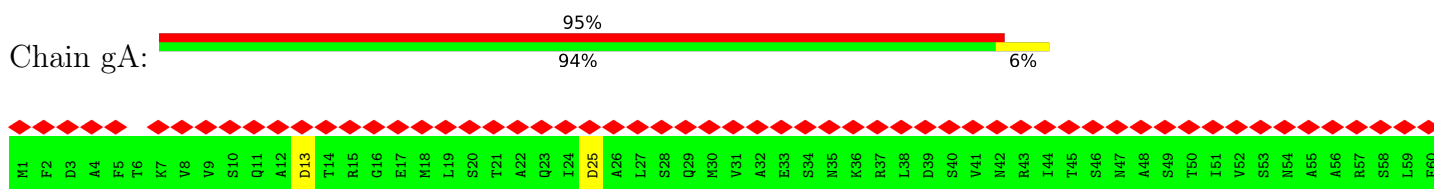
• Molecule 32: Phycocyanin beta subunit

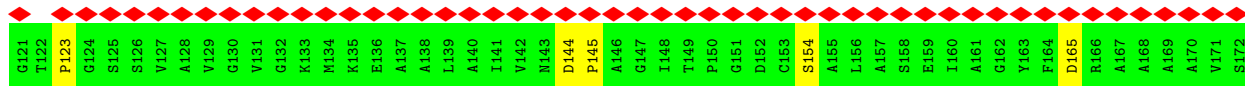
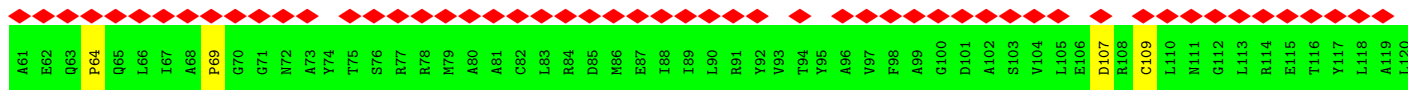


• Molecule 32: Phycocyanin beta subunit

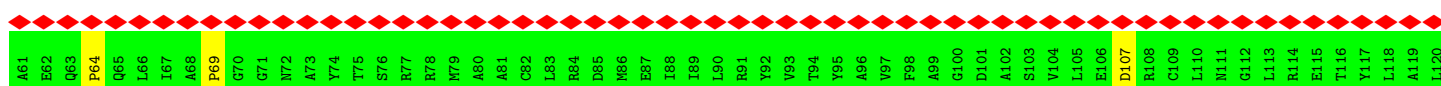
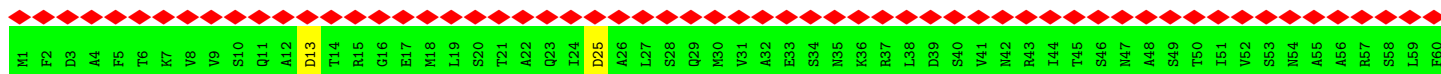
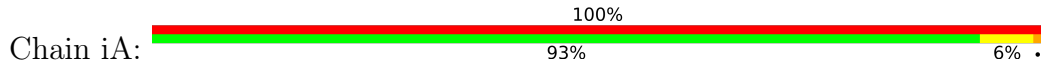


• Molecule 32: Phycocyanin beta subunit

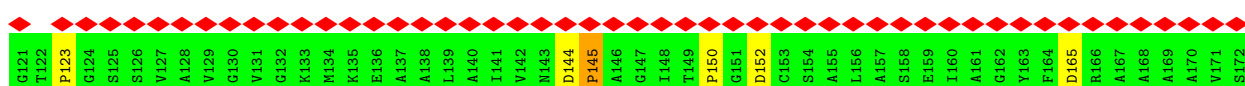
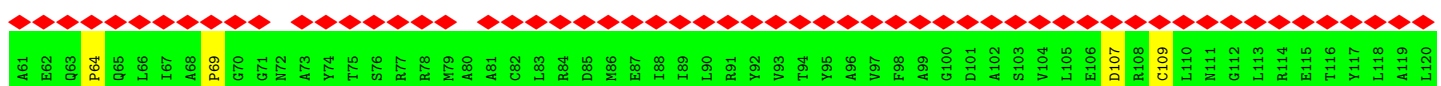
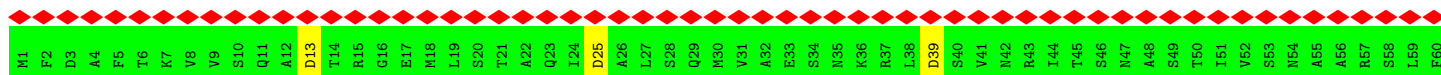




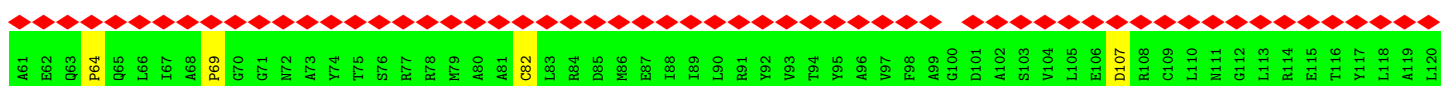
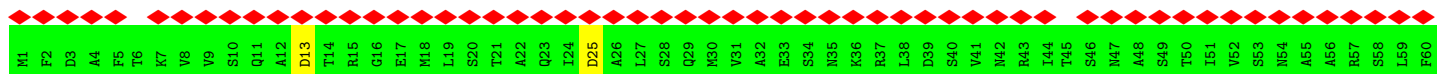
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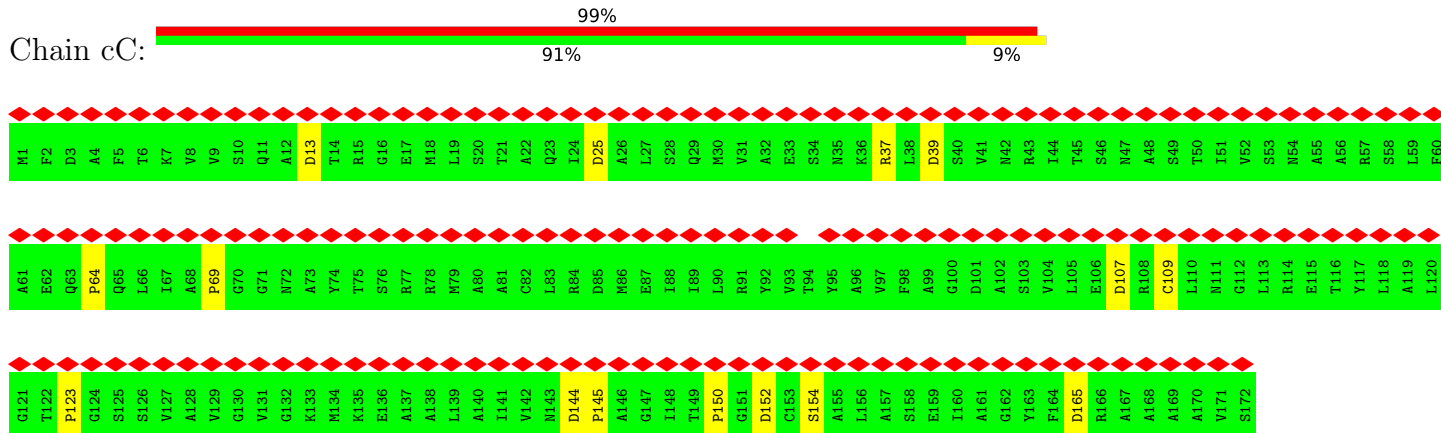
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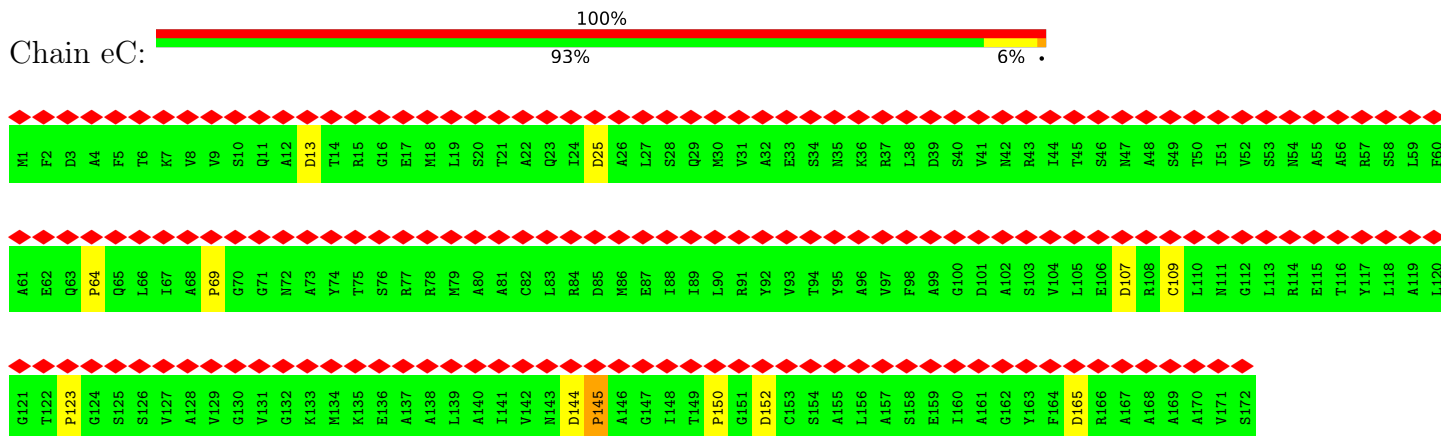
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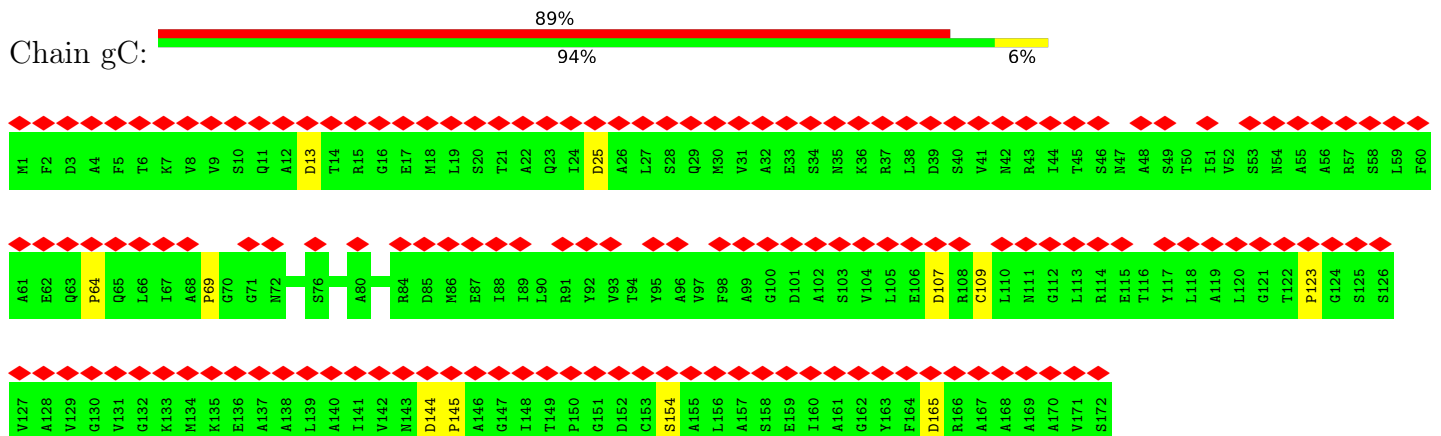
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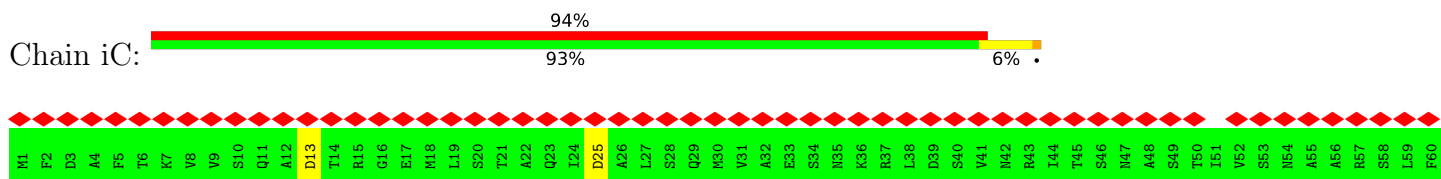
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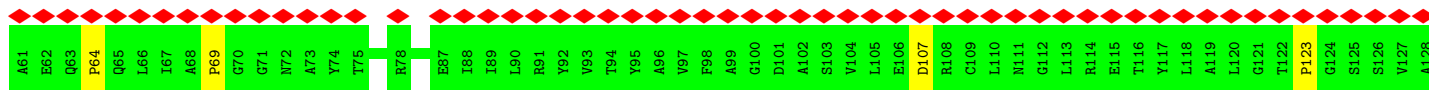


• Molecule 32: Phycocyanin beta subunit

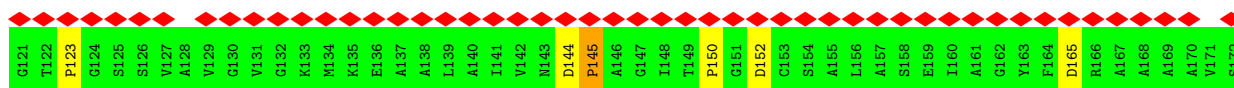
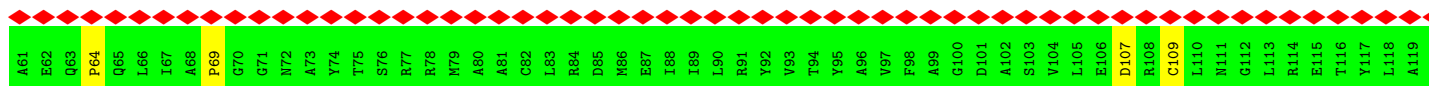
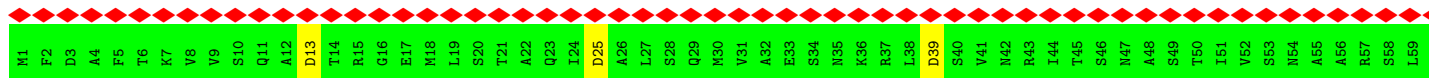
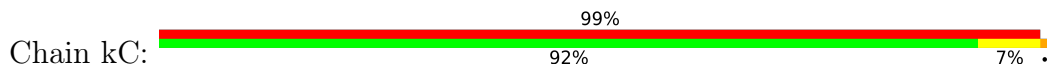


• Molecule 32: Phycocyanin beta subunit

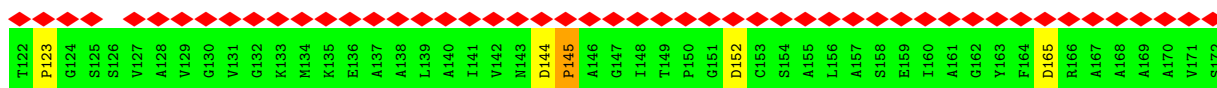
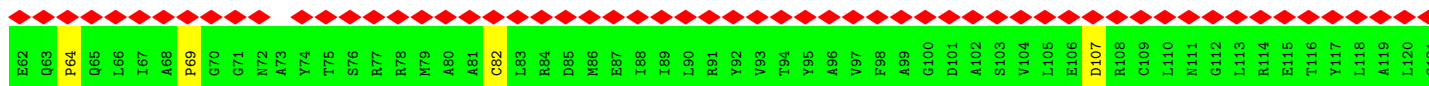
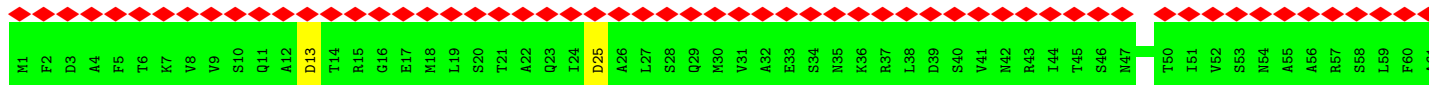




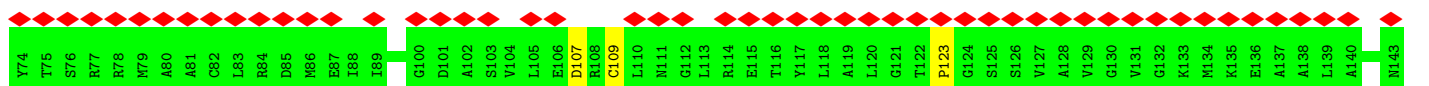
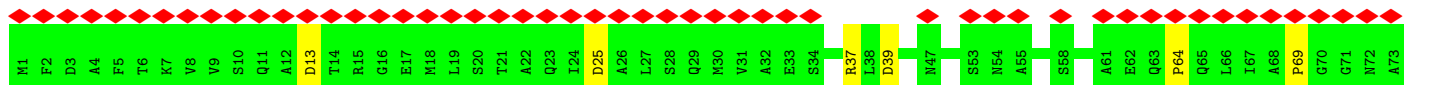
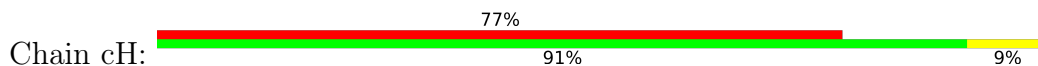
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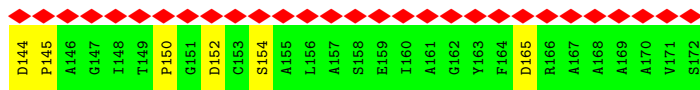


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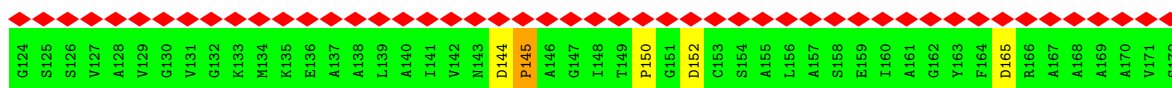
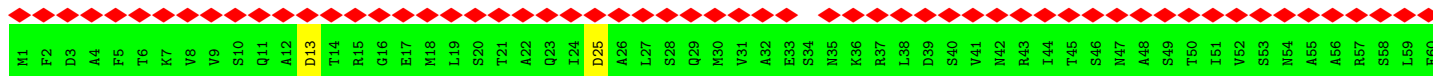


• Molecule 32: Phycocyanin beta subunit

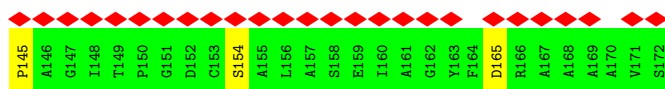
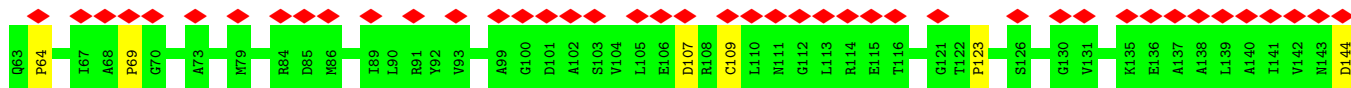
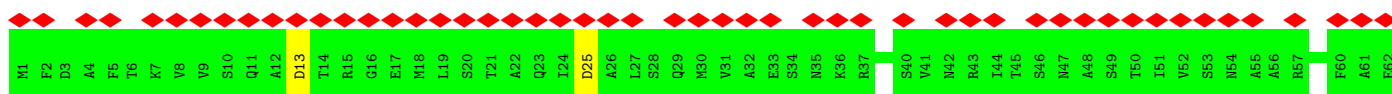




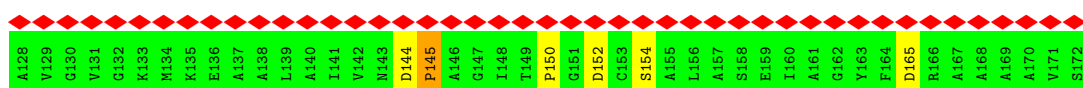
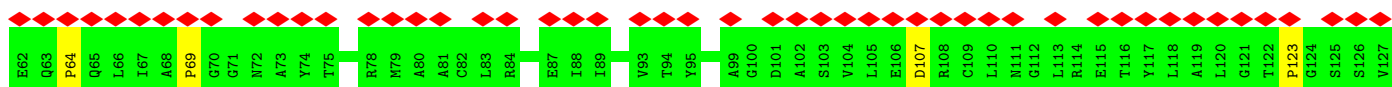
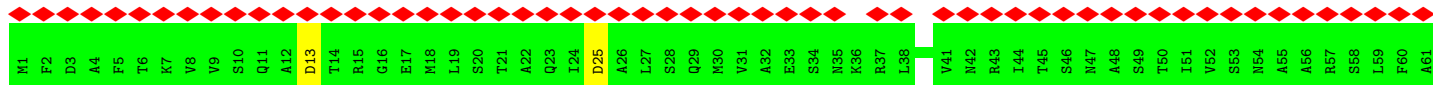
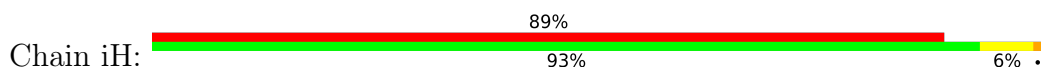
• Molecule 32: Phycocyanin beta subunit



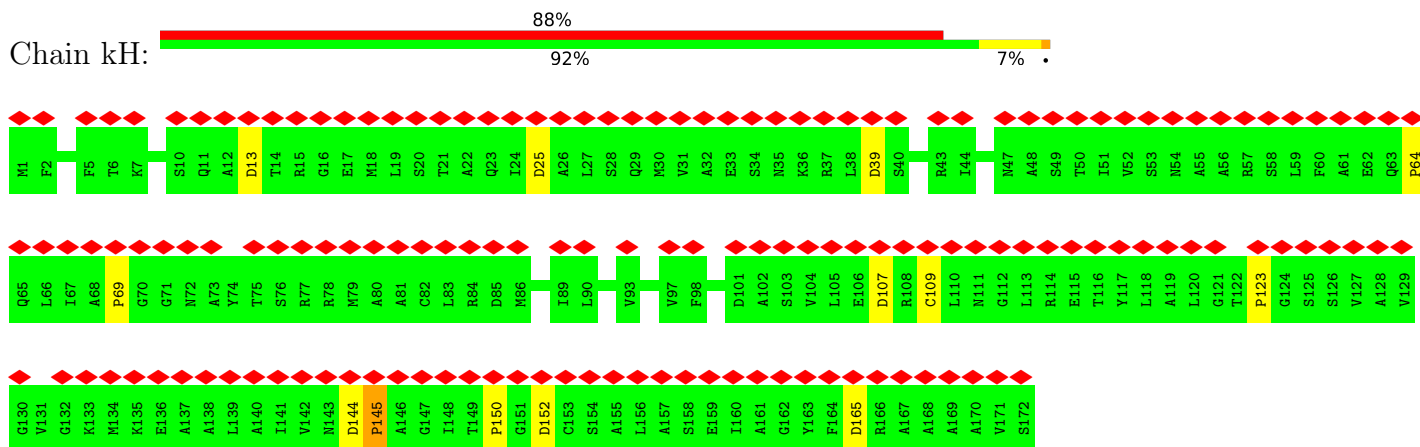
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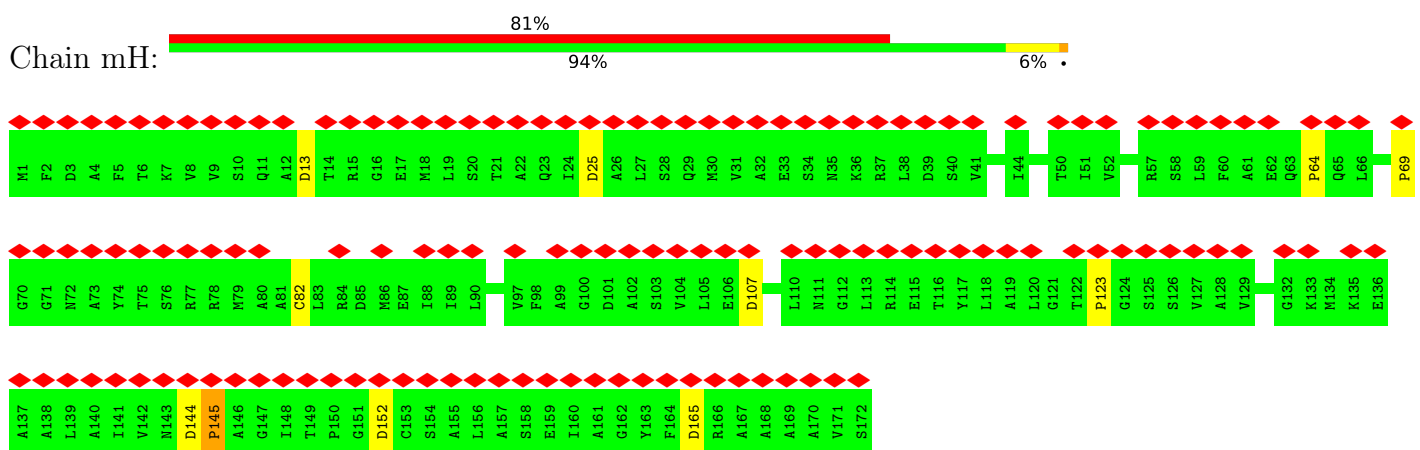
• Molecule 32: Phycocyanin beta subunit



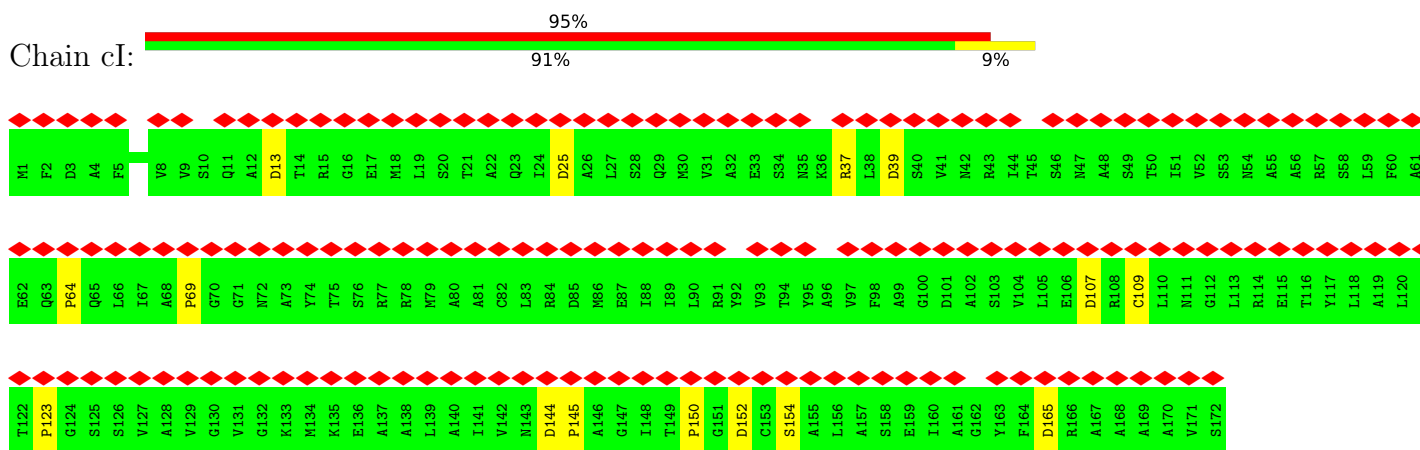
• Molecule 32: Phycocyanin beta subunit



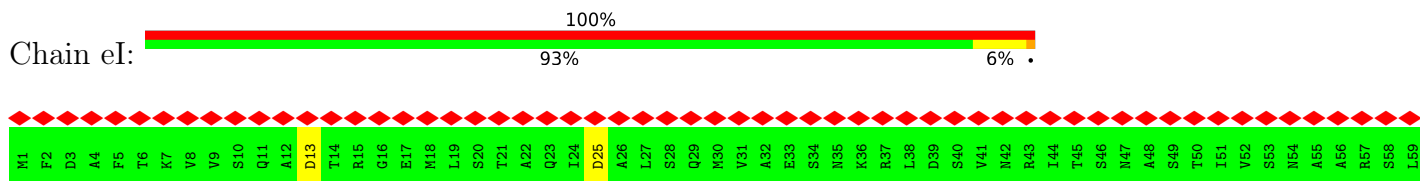
• Molecule 32: Phycocyanin beta subunit

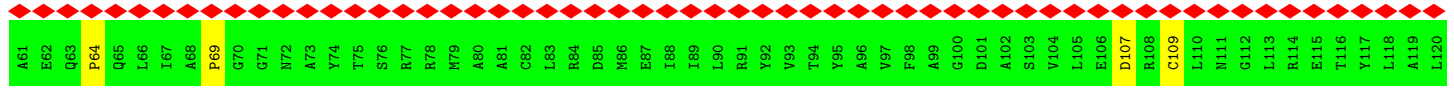


• Molecule 32: Phycocyanin beta subunit

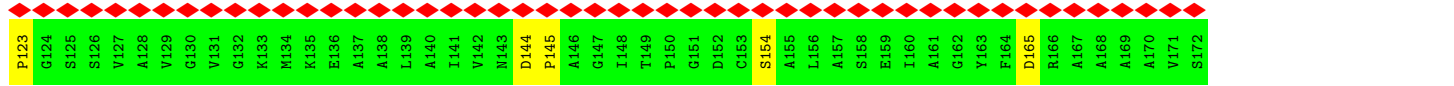
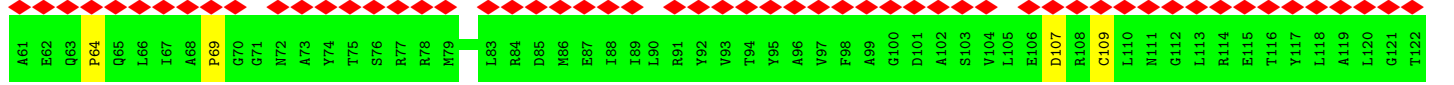
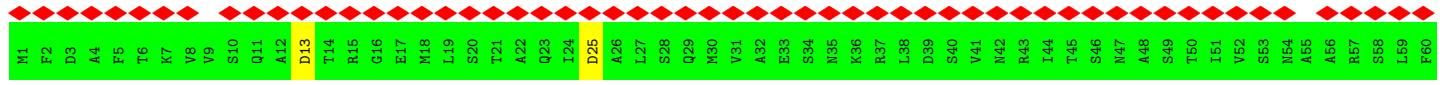
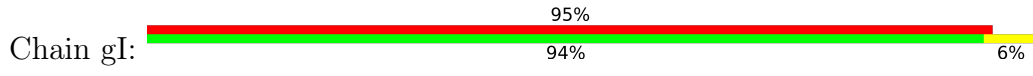


• Molecule 32: Phycocyanin beta subunit

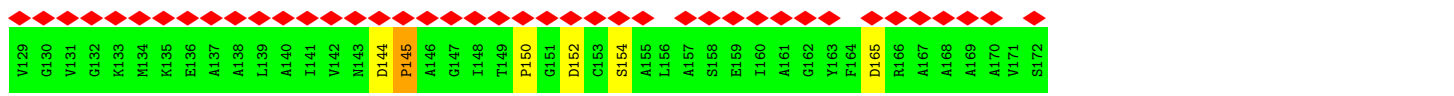
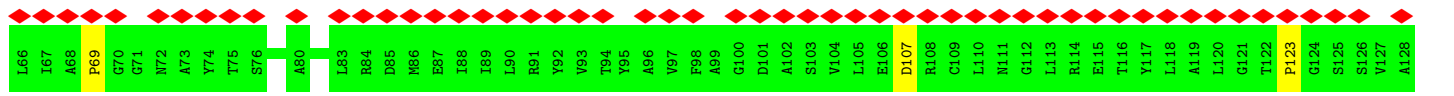
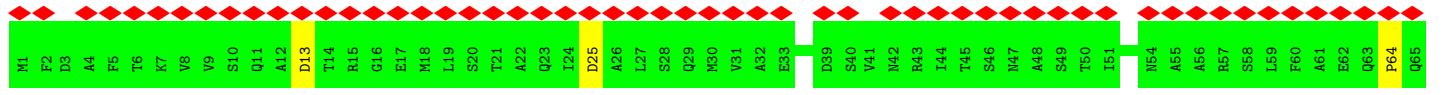
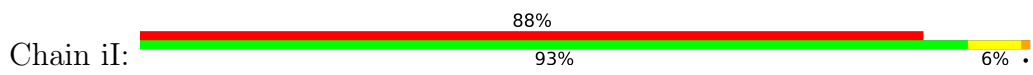




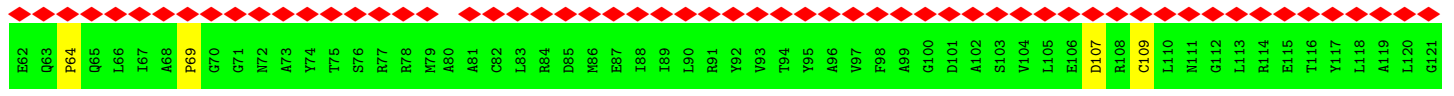
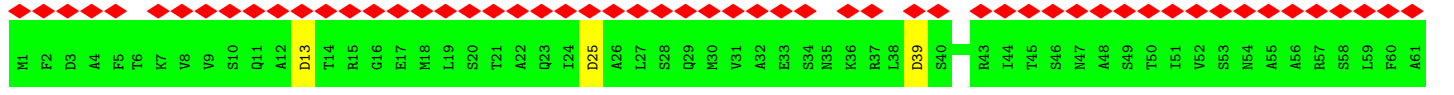
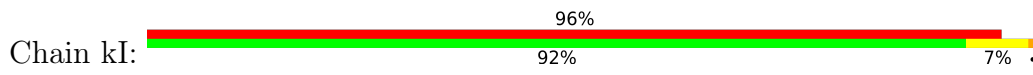
• Molecule 32: Phycocyanin beta subunit

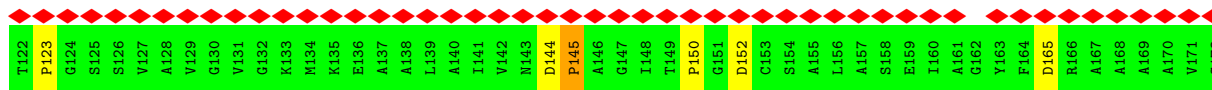


• Molecule 32: Phycocyanin beta subunit

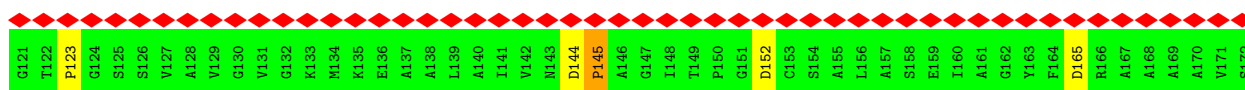
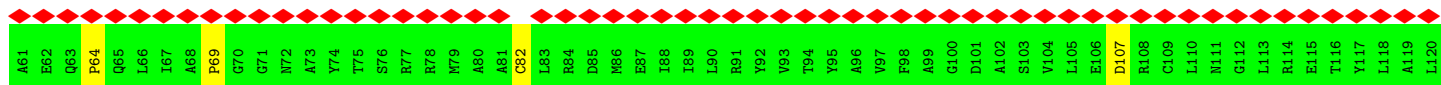
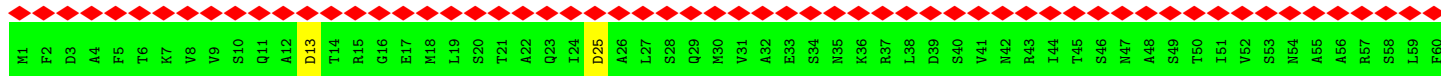
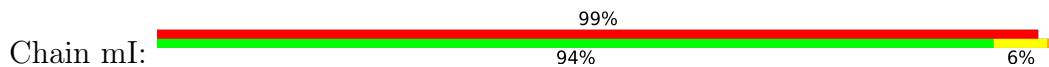


• Molecule 32: Phycocyanin beta subunit

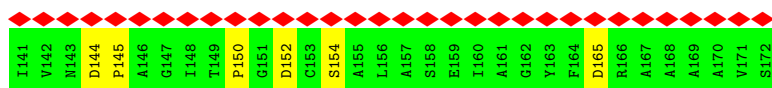
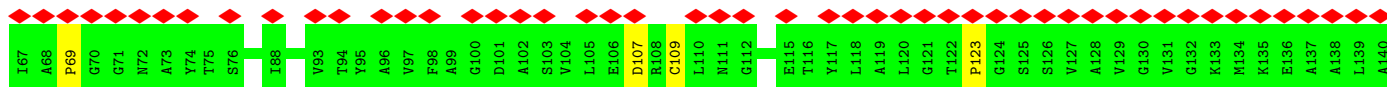
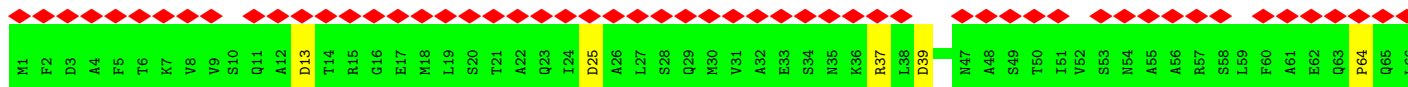
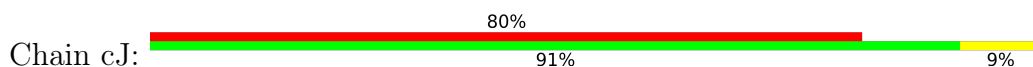




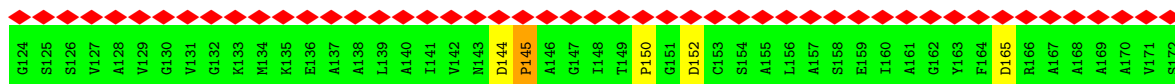
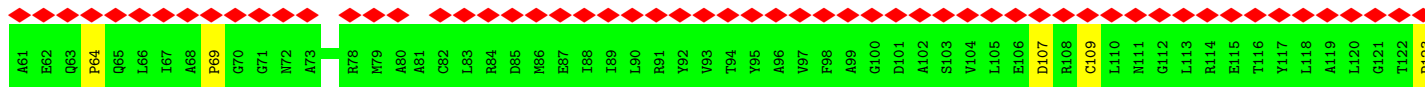
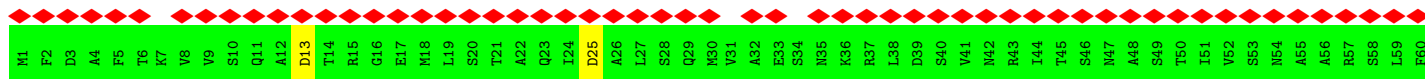
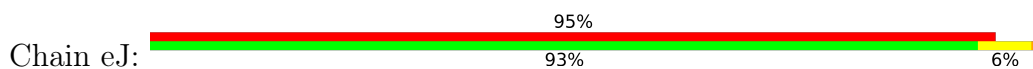
• Molecule 32: Phycocyanin beta subunit



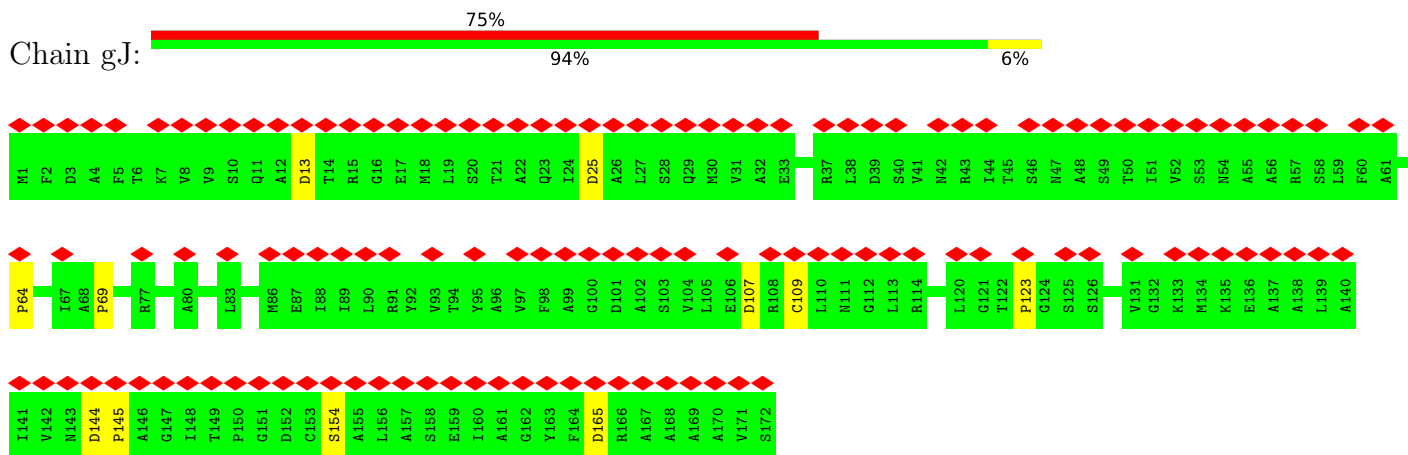
• Molecule 32: Phycocyanin beta subunit



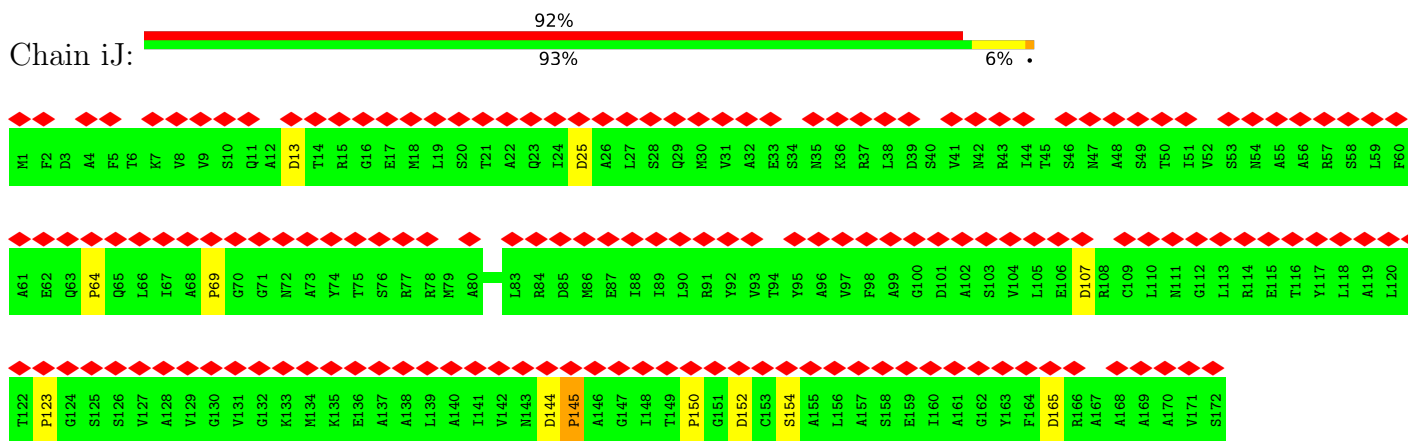
• Molecule 32: Phycocyanin beta subunit



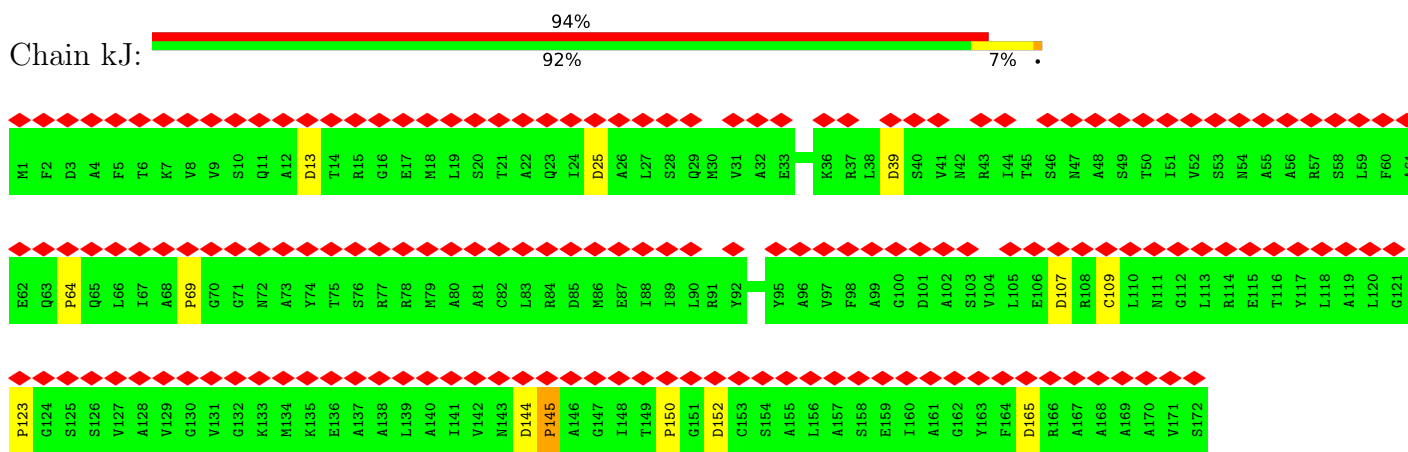
• Molecule 32: Phycocyanin beta subunit



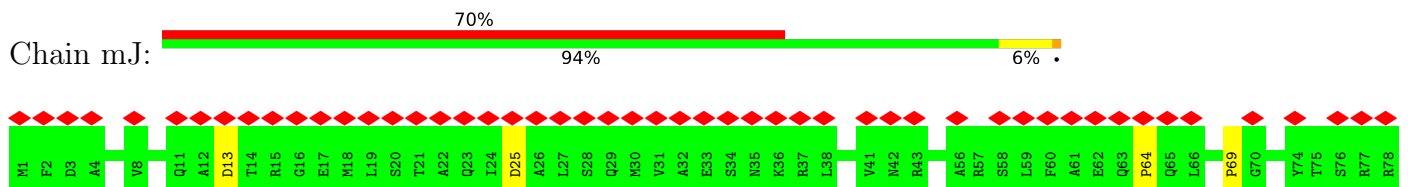
• Molecule 32: Phycocyanin beta subunit

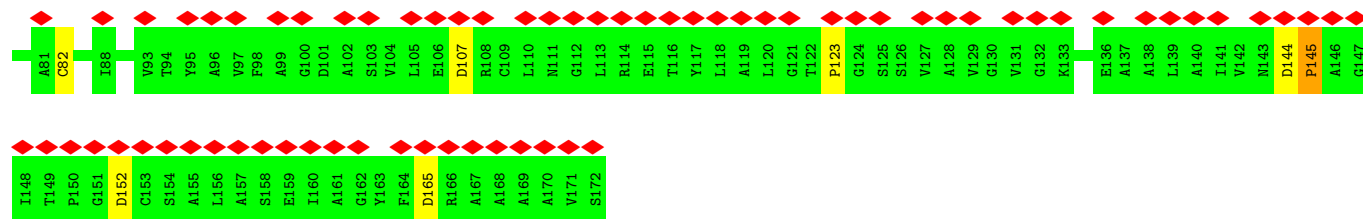


• Molecule 32: Phycocyanin beta subunit



• Molecule 32: Phycocyanin beta subunit





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	168000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	35	Depositor
Minimum defocus (nm)	6000	Depositor
Maximum defocus (nm)	6000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	1.723	Depositor
Minimum map value	-1.208	Depositor
Average map value	0.006	Depositor
Map value standard deviation	0.057	Depositor
Recommended contour level	0.16	Depositor
Map size (\AA)	652.8, 652.8, 652.8	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.632, 1.632, 1.632	Depositor

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: CL, LHG, OEX, LMT, HEM, CLA, DGD, PHO, CA, SQD, BCT, CYC, LMG, BCR, PL9, FE2

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	B2	0.70	0/1991	1.18	11/2706 (0.4%)
1	B3	0.69	0/1984	1.19	12/2698 (0.4%)
1	B5	0.67	0/1899	1.18	13/2590 (0.5%)
1	B6	0.69	0/1994	1.17	12/2710 (0.4%)
1	B7	0.68	0/1991	1.21	13/2707 (0.5%)
1	B8	0.67	0/1892	1.18	13/2581 (0.5%)
1	B9	0.70	0/1991	1.00	10/2707 (0.4%)
1	BA	0.68	0/1997	1.17	12/2714 (0.4%)
1	BC	0.69	0/1990	1.20	13/2705 (0.5%)
1	BH	0.67	0/1892	1.18	13/2581 (0.5%)
1	BI	0.70	0/1971	1.33	12/2679 (0.4%)
1	BJ	0.67	0/1899	1.18	13/2590 (0.5%)
2	B4	0.48	0/7144	0.73	8/9652 (0.1%)
2	BB	0.49	0/7144	0.73	7/9652 (0.1%)
2	C4	0.48	0/6986	0.71	6/9441 (0.1%)
2	CB	0.48	0/6986	0.71	6/9441 (0.1%)
3	4G	0.38	0/1220	0.64	2/1649 (0.1%)
3	4L	0.38	0/1220	0.64	2/1649 (0.1%)
3	6G	0.42	0/1224	0.66	1/1653 (0.1%)
3	6L	0.42	0/1224	0.66	1/1653 (0.1%)
3	9F	0.38	0/1224	0.56	0/1653
3	9K	0.38	0/1224	0.56	0/1653
3	AG	0.40	0/1224	0.62	0/1653
3	AL	0.40	0/1224	0.62	0/1653
3	GG	0.42	0/1224	0.62	1/1653 (0.1%)
3	GL	0.42	0/1224	0.62	1/1653 (0.1%)
3	IG	0.39	0/1221	0.84	12/1649 (0.7%)
3	IL	0.39	0/1218	0.88	14/1646 (0.9%)
3	JF	0.41	0/1218	0.65	1/1646 (0.1%)
3	JK	0.41	0/1224	0.66	1/1653 (0.1%)
3	KG	0.44	0/1218	0.61	0/1646
3	KL	0.44	0/1218	0.61	0/1646

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	LF	0.41	0/1224	0.62	0/1653
3	LK	0.41	0/1224	0.62	0/1653
3	NG	0.40	0/1218	0.60	0/1646
3	NL	0.40	0/1218	0.60	0/1646
3	O4	0.36	0/1218	0.67	3/1646 (0.2%)
3	OB	0.36	0/1214	0.67	3/1642 (0.2%)
3	PG	0.45	0/1224	0.63	0/1653
3	PL	0.45	0/1224	0.63	0/1653
3	Q4	0.33	0/1224	0.55	0/1653
3	QB	0.34	0/1220	0.55	0/1648
3	RG	0.37	0/1224	0.57	0/1653
3	RL	0.37	0/1224	0.57	0/1653
3	S4	0.35	0/1224	0.61	0/1653
3	SB	0.35	0/1224	0.61	0/1653
3	TG	0.38	0/1218	0.61	0/1646
3	TL	0.38	0/1218	0.61	0/1646
3	V4	0.33	0/1220	0.59	0/1649
3	VB	0.33	0/1220	0.59	0/1649
3	X4	0.34	0/1211	0.60	1/1637 (0.1%)
3	XB	0.35	0/1218	0.61	1/1646 (0.1%)
3	XF	0.39	0/1224	0.65	1/1653 (0.1%)
3	XK	0.39	0/1224	0.63	0/1653
3	Z4	0.36	0/1224	0.64	0/1653
3	ZB	0.36	0/1224	0.64	0/1653
3	ZF	0.40	0/1224	0.59	0/1653
3	ZK	0.40	0/1224	0.59	0/1653
3	bF	0.40	0/1224	0.61	0/1653
3	bK	0.40	0/1224	0.61	0/1653
3	dF	0.40	0/1220	0.61	1/1649 (0.1%)
3	dK	0.40	0/1220	0.61	1/1649 (0.1%)
3	fF	0.45	0/1224	0.64	0/1653
3	fK	0.45	0/1224	0.64	0/1653
3	iF	0.38	0/1224	0.57	0/1653
3	iK	0.38	0/1224	0.57	0/1653
3	kF	0.39	0/1224	0.62	0/1653
3	kK	0.39	0/1224	0.62	0/1653
3	o4	0.37	0/1220	0.62	0/1648
3	oB	0.37	0/1214	0.61	0/1641
3	q4	0.39	0/1212	0.61	0/1637
3	qB	0.39	0/1212	0.61	0/1637
3	s4	0.42	0/1224	0.64	1/1653 (0.1%)
3	sB	0.42	0/1224	0.64	1/1653 (0.1%)
3	u4	0.34	0/1214	0.60	1/1642 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	uB	0.34	0/1214	0.60	1/1642 (0.1%)
3	w4	0.35	0/1211	0.54	0/1638
3	wB	0.35	0/1224	0.54	0/1653
3	y4	0.44	0/1224	0.60	0/1653
3	yB	0.44	0/1224	0.60	0/1653
4	1G	0.39	0/1230	0.63	0/1665
4	1L	0.40	0/1230	0.63	0/1665
4	5G	0.40	0/1230	0.57	0/1665
4	5L	0.40	0/1230	0.57	0/1665
4	7G	0.45	0/1230	0.69	3/1665 (0.2%)
4	7L	0.45	0/1230	0.69	3/1665 (0.2%)
4	HG	0.42	0/1224	0.60	0/1658
4	HL	0.42	0/1224	0.60	0/1658
4	IF	0.37	0/1230	0.68	2/1665 (0.1%)
4	IK	0.37	0/1230	0.69	2/1665 (0.1%)
4	JG	0.45	0/1230	0.63	1/1665 (0.1%)
4	JL	0.45	0/1230	0.63	1/1665 (0.1%)
4	KF	0.42	0/1230	0.60	1/1665 (0.1%)
4	KK	0.42	0/1230	0.60	1/1665 (0.1%)
4	LG	0.51	0/1230	0.71	1/1665 (0.1%)
4	LL	0.51	0/1230	0.71	1/1665 (0.1%)
4	MF	0.43	1/1230 (0.1%)	0.70	2/1665 (0.1%)
4	MG	0.42	0/1226	0.58	0/1660
4	MK	0.43	1/1230 (0.1%)	0.70	2/1665 (0.1%)
4	ML	0.42	0/1226	0.58	0/1660
4	OG	0.44	0/1230	0.67	0/1665
4	OL	0.44	0/1230	0.67	0/1665
4	P4	0.36	0/1230	0.62	1/1665 (0.1%)
4	PB	0.36	0/1230	0.62	1/1665 (0.1%)
4	R4	0.35	0/1230	0.58	0/1665
4	RB	0.35	0/1230	0.58	0/1665
4	SG	0.37	0/1230	0.59	0/1665
4	SL	0.37	0/1230	0.59	0/1665
4	T4	0.35	0/1230	0.54	0/1665
4	TB	0.35	0/1230	0.55	0/1665
4	UG	0.36	0/1230	0.57	0/1665
4	UL	0.36	0/1230	0.57	0/1665
4	W4	0.33	0/1230	0.59	0/1665
4	WB	0.33	0/1230	0.59	0/1665
4	WG	0.41	0/1230	0.63	1/1665 (0.1%)
4	WL	0.41	0/1230	0.63	1/1665 (0.1%)
4	Y4	0.35	0/1230	0.62	2/1665 (0.1%)
4	YB	0.35	0/1230	0.62	2/1665 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
4	YF	0.43	0/1230	0.63	0/1665
4	YK	0.43	0/1230	0.63	0/1665
4	a4	0.42	0/1214	0.70	0/1644
4	aB	0.41	0/1211	0.69	0/1640
4	aF	0.48	0/1230	0.64	2/1665 (0.1%)
4	aK	0.48	0/1230	0.64	2/1665 (0.1%)
4	cF	0.43	0/1230	0.61	0/1665
4	cK	0.43	0/1230	0.61	0/1665
4	eF	0.43	0/1230	0.61	0/1665
4	eK	0.42	0/1230	0.61	0/1665
4	hF	0.40	0/1230	0.57	0/1665
4	hK	0.39	0/1224	0.56	0/1658
4	jF	0.36	0/1227	0.56	0/1662
4	jK	0.36	0/1227	0.56	0/1662
4	lF	0.39	0/1230	0.59	0/1665
4	lK	0.39	0/1230	0.59	0/1665
4	nF	0.39	0/1230	0.63	2/1665 (0.1%)
4	nK	0.39	0/1230	0.63	2/1665 (0.1%)
4	p4	0.37	0/1224	0.57	0/1658
4	pB	0.37	0/1224	0.57	0/1658
4	r4	0.42	0/1230	0.60	0/1665
4	rB	0.42	0/1230	0.60	0/1665
4	t4	0.43	1/1230 (0.1%)	0.65	2/1665 (0.1%)
4	tB	0.43	1/1230 (0.1%)	0.66	2/1665 (0.1%)
4	v4	0.36	0/1230	0.62	0/1665
4	vB	0.36	0/1230	0.62	0/1665
4	x4	0.42	0/1230	0.58	0/1665
4	xB	0.42	0/1230	0.59	0/1665
4	z4	0.37	0/1224	0.57	0/1658
4	zB	0.37	0/1224	0.57	0/1658
5	2G	0.42	0/536	0.66	1/720 (0.1%)
5	2L	0.42	0/536	0.66	1/720 (0.1%)
5	3F	0.57	1/536 (0.2%)	0.78	2/720 (0.3%)
5	3K	0.57	1/536 (0.2%)	0.78	2/720 (0.3%)
5	8G	0.58	0/536	0.74	1/720 (0.1%)
5	8L	0.58	0/536	0.74	1/720 (0.1%)
5	NF	0.47	0/544	0.74	1/730 (0.1%)
5	NK	0.47	0/544	0.74	1/730 (0.1%)
5	U4	0.38	0/536	0.68	0/720
5	UB	0.39	0/536	0.68	0/720
5	b4	0.37	0/536	0.67	1/720 (0.1%)
5	bB	0.37	0/536	0.67	1/720 (0.1%)
6	A1	0.45	0/2695	0.73	1/3681 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
6	AD	0.45	0/2687	0.73	2/3670 (0.1%)
6	AE	0.45	0/2687	0.73	2/3670 (0.1%)
6	a1	0.47	0/2693	0.71	2/3679 (0.1%)
6	aD	0.47	0/2699	0.70	2/3686 (0.1%)
6	aE	0.47	0/2699	0.71	2/3686 (0.1%)
7	B1	0.53	2/4059 (0.0%)	0.78	12/5531 (0.2%)
7	BD	0.53	2/4063 (0.0%)	0.78	11/5536 (0.2%)
7	BE	0.54	2/4057 (0.0%)	0.78	11/5529 (0.2%)
7	b1	0.47	1/4079 (0.0%)	0.74	9/5557 (0.2%)
7	bD	0.48	1/4079 (0.0%)	0.74	9/5557 (0.2%)
7	bE	0.48	1/4079 (0.0%)	0.74	9/5557 (0.2%)
8	C1	0.42	0/3597	0.71	4/4895 (0.1%)
8	CD	0.41	0/3597	0.69	4/4895 (0.1%)
8	CE	0.41	0/3597	0.69	4/4895 (0.1%)
8	c1	0.45	0/3595	0.74	4/4894 (0.1%)
8	cD	0.46	0/3591	0.75	6/4890 (0.1%)
8	cE	0.45	0/3593	0.74	6/4891 (0.1%)
9	D1	0.59	1/2810 (0.0%)	0.83	4/3833 (0.1%)
9	DD	0.59	1/2810 (0.0%)	0.83	4/3833 (0.1%)
9	DE	0.59	1/2810 (0.0%)	0.83	4/3833 (0.1%)
9	d1	0.60	1/2806 (0.0%)	0.83	6/3828 (0.2%)
9	dD	0.60	1/2806 (0.0%)	0.83	7/3828 (0.2%)
9	dE	0.60	1/2806 (0.0%)	0.83	7/3828 (0.2%)
10	E1	0.37	0/652	0.66	0/889
10	ED	0.37	0/652	0.66	0/889
10	EE	0.37	0/652	0.66	0/889
10	e1	0.39	0/652	0.64	0/889
10	eD	0.39	0/652	0.64	0/889
10	eE	0.39	0/652	0.64	0/889
11	F1	0.42	0/292	0.84	1/400 (0.2%)
11	FD	0.42	0/292	0.85	1/400 (0.2%)
11	FE	0.42	0/292	0.85	1/400 (0.2%)
11	f1	0.46	0/292	0.89	1/400 (0.2%)
11	fD	0.45	0/309	0.91	1/424 (0.2%)
11	fE	0.44	0/292	0.90	1/400 (0.2%)
12	H1	0.35	0/526	0.87	2/717 (0.3%)
12	HD	0.35	0/518	0.87	2/708 (0.3%)
12	HE	0.37	0/518	0.88	2/708 (0.3%)
12	h1	0.43	0/526	0.83	2/717 (0.3%)
12	hD	0.43	0/526	0.83	2/717 (0.3%)
12	hE	0.43	0/526	0.83	2/717 (0.3%)
13	I1	0.69	0/300	1.00	1/404 (0.2%)
13	ID	0.70	0/300	1.03	2/404 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
13	IE	0.70	0/300	1.03	2/404 (0.5%)
13	i1	0.47	0/296	0.72	0/400
13	iD	0.47	0/296	0.72	0/400
13	iE	0.47	0/296	0.72	0/400
14	J1	0.33	0/268	0.64	0/367
14	JD	0.33	0/268	0.64	0/367
14	JE	0.33	0/268	0.64	0/367
14	j1	0.37	0/282	0.78	0/385
14	jD	0.37	0/282	0.78	0/385
14	jE	0.37	0/282	0.78	0/385
15	K1	0.44	0/297	0.86	1/409 (0.2%)
15	KD	0.44	0/297	0.86	1/409 (0.2%)
15	KE	0.44	0/297	0.86	1/409 (0.2%)
15	k1	0.40	0/288	0.82	1/398 (0.3%)
15	kD	0.40	0/288	0.82	1/398 (0.3%)
15	kE	0.40	0/288	0.82	1/398 (0.3%)
16	L1	0.46	0/322	0.83	2/434 (0.5%)
16	LD	0.46	0/322	0.83	2/434 (0.5%)
16	LE	0.46	0/322	0.83	2/434 (0.5%)
16	l1	0.47	0/322	0.83	2/434 (0.5%)
16	lD	0.47	0/322	0.83	2/434 (0.5%)
16	lE	0.47	0/322	0.83	2/434 (0.5%)
17	M1	0.47	0/290	0.77	0/392
17	MD	0.47	0/290	0.77	0/392
17	ME	0.47	0/290	0.77	0/392
17	m1	0.53	0/290	0.78	0/392
17	mD	0.53	0/290	0.78	0/392
17	mE	0.53	0/290	0.78	0/392
18	O1	0.46	0/1893	0.96	6/2571 (0.2%)
18	OD	0.46	0/1893	0.96	6/2571 (0.2%)
18	OE	0.46	0/1893	0.96	6/2571 (0.2%)
18	o1	0.46	0/1893	0.96	6/2571 (0.2%)
18	oD	0.46	0/1893	0.96	6/2571 (0.2%)
18	oE	0.46	0/1893	0.96	6/2571 (0.2%)
19	Q1	0.42	0/985	0.84	4/1332 (0.3%)
19	QD	0.41	0/985	0.84	4/1332 (0.3%)
19	QE	0.42	0/985	0.84	4/1332 (0.3%)
19	q1	0.42	0/985	0.85	4/1332 (0.3%)
19	qD	0.41	0/985	0.85	4/1332 (0.3%)
19	qE	0.41	0/985	0.85	4/1332 (0.3%)
20	R1	0.34	0/264	0.74	0/357
20	RD	0.34	0/264	0.74	0/357
20	RE	0.34	0/264	0.74	0/357

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
20	r1	0.33	0/264	0.74	0/357
20	rD	0.34	0/264	0.74	0/357
20	rE	0.34	0/264	0.74	0/357
22	T1	0.39	0/230	0.78	0/313
22	TD	0.39	0/230	0.78	0/313
22	TE	0.39	0/230	0.78	0/313
22	t1	0.39	0/238	0.59	0/323
22	tD	0.39	0/238	0.59	0/323
22	tE	0.39	0/238	0.59	0/323
23	U1	0.41	0/769	0.84	4/1040 (0.4%)
23	UD	0.41	0/769	0.84	4/1040 (0.4%)
23	UE	0.41	0/769	0.84	4/1040 (0.4%)
23	u1	0.41	0/769	0.84	3/1040 (0.3%)
23	uD	0.41	0/769	0.84	3/1040 (0.3%)
23	uE	0.41	0/769	0.84	3/1040 (0.3%)
24	V1	0.37	0/1064	0.73	2/1447 (0.1%)
24	VD	0.37	0/1064	0.73	2/1447 (0.1%)
24	VE	0.37	0/1064	0.73	2/1447 (0.1%)
24	v1	0.37	0/1064	0.73	2/1447 (0.1%)
24	vD	0.37	0/1064	0.73	2/1447 (0.1%)
24	vE	0.37	0/1064	0.73	2/1447 (0.1%)
25	X1	0.35	0/318	0.68	0/429
25	XD	0.35	0/318	0.68	0/429
25	XE	0.35	0/318	0.68	0/429
25	x1	0.35	0/318	0.68	0/429
25	xD	0.35	0/318	0.68	0/429
25	xE	0.35	0/318	0.68	0/429
26	Y1	0.40	0/241	0.87	1/327 (0.3%)
26	YD	0.40	0/241	0.87	1/327 (0.3%)
26	YE	0.40	0/241	0.87	1/327 (0.3%)
26	y1	0.34	0/241	0.76	1/327 (0.3%)
26	yD	0.34	0/241	0.76	1/327 (0.3%)
26	yE	0.34	0/241	0.76	1/327 (0.3%)
27	Z1	0.38	0/473	0.77	0/651
27	ZD	0.38	0/473	0.77	0/651
27	ZE	0.38	0/473	0.77	0/651
27	z1	0.45	0/473	0.81	0/651
27	zD	0.45	0/473	0.81	0/651
27	zE	0.45	0/473	0.81	0/651
28	BG	0.54	0/363	1.31	6/483 (1.2%)
28	BL	0.54	0/363	1.31	6/483 (1.2%)
28	EF	0.55	0/360	1.24	3/480 (0.6%)
28	EK	0.55	0/360	1.24	3/480 (0.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
29	QG	0.49	0/1316	0.71	0/1790
29	QL	0.48	0/1316	0.71	0/1790
29	gF	0.47	0/1316	0.71	0/1790
29	gK	0.47	0/1316	0.71	0/1790
30	VG	0.43	0/1274	0.70	2/1720 (0.1%)
30	VL	0.43	0/1274	0.70	2/1720 (0.1%)
30	mF	0.43	0/1274	0.69	2/1720 (0.1%)
30	mK	0.43	0/1274	0.69	2/1720 (0.1%)
31	b2	0.40	0/1060	0.80	11/1446 (0.8%)
31	b3	0.40	0/1060	0.80	11/1446 (0.8%)
31	b5	0.40	0/1060	0.80	11/1446 (0.8%)
31	b6	0.40	0/1060	0.80	11/1446 (0.8%)
31	b7	0.40	0/1060	0.80	11/1446 (0.8%)
31	b8	0.40	0/1060	0.80	11/1446 (0.8%)
31	b9	0.40	0/1060	0.80	11/1446 (0.8%)
31	bA	0.40	0/1060	0.80	11/1446 (0.8%)
31	bC	0.40	0/1060	0.80	11/1446 (0.8%)
31	bH	0.40	0/1060	0.80	11/1446 (0.8%)
31	bI	0.40	0/1060	0.80	11/1446 (0.8%)
31	bJ	0.40	0/1060	0.80	11/1446 (0.8%)
31	d2	0.40	0/1019	0.82	12/1397 (0.9%)
31	d3	0.40	0/1019	0.82	12/1397 (0.9%)
31	d5	0.40	0/1019	0.82	12/1397 (0.9%)
31	d6	0.40	0/1019	0.82	12/1397 (0.9%)
31	d7	0.40	0/1019	0.82	12/1397 (0.9%)
31	d8	0.40	0/1019	0.82	12/1397 (0.9%)
31	d9	0.40	0/1019	0.82	12/1397 (0.9%)
31	dA	0.40	0/1019	0.82	12/1397 (0.9%)
31	dC	0.40	0/1019	0.82	12/1397 (0.9%)
31	dH	0.40	0/1019	0.82	12/1397 (0.9%)
31	dI	0.40	0/1019	0.82	12/1397 (0.9%)
31	dJ	0.40	0/1019	0.82	12/1397 (0.9%)
31	f2	0.40	0/1039	0.79	10/1424 (0.7%)
31	f3	0.40	0/1039	0.79	10/1424 (0.7%)
31	f5	0.40	0/1039	0.79	10/1424 (0.7%)
31	f6	0.40	0/1039	0.79	10/1424 (0.7%)
31	f7	0.40	0/1039	0.79	10/1424 (0.7%)
31	f8	0.40	0/1039	0.79	10/1424 (0.7%)
31	f9	0.40	0/1039	0.79	10/1424 (0.7%)
31	fA	0.40	0/1039	0.79	10/1424 (0.7%)
31	fC	0.40	0/1039	0.79	10/1424 (0.7%)
31	fH	0.40	0/1039	0.79	10/1424 (0.7%)
31	fI	0.40	0/1039	0.79	10/1424 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
31	fJ	0.40	0/1039	0.79	10/1424 (0.7%)
31	h2	0.40	0/1051	0.78	10/1437 (0.7%)
31	h3	0.40	0/1051	0.79	10/1437 (0.7%)
31	h5	0.40	0/1051	0.78	10/1437 (0.7%)
31	h6	0.40	0/1051	0.79	10/1437 (0.7%)
31	h7	0.40	0/1051	0.79	10/1437 (0.7%)
31	h8	0.40	0/1051	0.79	10/1437 (0.7%)
31	h9	0.40	0/1045	0.79	10/1430 (0.7%)
31	hA	0.40	0/1051	0.79	10/1437 (0.7%)
31	hC	0.40	0/1051	0.79	10/1437 (0.7%)
31	hH	0.40	0/1051	0.78	10/1437 (0.7%)
31	hI	0.40	0/1051	0.78	10/1437 (0.7%)
31	hJ	0.40	0/1051	0.78	10/1437 (0.7%)
31	j2	0.40	0/1037	0.82	12/1419 (0.8%)
31	j3	0.40	0/1037	0.82	12/1419 (0.8%)
31	j5	0.40	0/1037	0.82	12/1419 (0.8%)
31	j6	0.40	0/1037	0.82	12/1419 (0.8%)
31	j7	0.40	0/1037	0.82	12/1419 (0.8%)
31	j8	0.40	0/1037	0.82	12/1419 (0.8%)
31	j9	0.40	0/1037	0.82	12/1419 (0.8%)
31	jA	0.40	0/1037	0.82	12/1419 (0.8%)
31	jC	0.40	0/1037	0.82	12/1419 (0.8%)
31	jH	0.40	0/1037	0.82	12/1419 (0.8%)
31	jI	0.40	0/1037	0.82	12/1419 (0.8%)
31	jJ	0.40	0/1037	0.82	12/1419 (0.8%)
31	l2	0.40	0/1070	0.81	12/1464 (0.8%)
31	l3	0.40	0/1070	0.81	12/1464 (0.8%)
31	l5	0.40	0/1070	0.81	12/1464 (0.8%)
31	l6	0.40	0/1070	0.81	12/1464 (0.8%)
31	l7	0.40	0/1070	0.81	12/1464 (0.8%)
31	l8	0.40	0/1070	0.81	12/1464 (0.8%)
31	l9	0.40	0/1070	0.81	12/1464 (0.8%)
31	lA	0.40	0/1070	0.81	12/1464 (0.8%)
31	lC	0.40	0/1070	0.81	12/1464 (0.8%)
31	lH	0.40	0/1070	0.81	12/1464 (0.8%)
31	lI	0.40	0/1070	0.81	12/1464 (0.8%)
31	lJ	0.40	0/1070	0.81	12/1464 (0.8%)
32	c2	0.37	0/1083	0.83	12/1488 (0.8%)
32	c3	0.37	0/1083	0.83	12/1488 (0.8%)
32	c5	0.37	0/1083	0.83	12/1488 (0.8%)
32	c6	0.37	0/1083	0.83	12/1488 (0.8%)
32	c7	0.36	0/1083	0.83	12/1488 (0.8%)
32	c8	0.37	0/1083	0.83	12/1488 (0.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
32	c9	0.37	0/1083	0.83	12/1488 (0.8%)
32	cA	0.37	0/1083	0.83	12/1488 (0.8%)
32	cC	0.36	0/1083	0.83	12/1488 (0.8%)
32	cH	0.36	0/1083	0.83	12/1488 (0.8%)
32	cI	0.37	0/1080	0.83	12/1484 (0.8%)
32	cJ	0.37	0/1083	0.83	12/1488 (0.8%)
32	e2	0.37	0/1069	0.80	11/1467 (0.7%)
32	e3	0.37	0/1069	0.80	11/1467 (0.7%)
32	e5	0.37	0/1069	0.80	11/1467 (0.7%)
32	e6	0.37	0/1069	0.80	11/1467 (0.7%)
32	e7	0.37	0/1069	0.80	11/1467 (0.7%)
32	e8	0.37	0/1069	0.80	11/1467 (0.7%)
32	e9	0.37	0/1069	0.80	11/1467 (0.7%)
32	eA	0.37	0/1069	0.80	11/1467 (0.7%)
32	eC	0.37	0/1069	0.80	11/1467 (0.7%)
32	eH	0.37	0/1069	0.80	11/1467 (0.7%)
32	eI	0.37	0/1069	0.80	11/1467 (0.7%)
32	eJ	0.37	0/1069	0.80	11/1467 (0.7%)
32	g2	0.36	0/1094	0.74	9/1498 (0.6%)
32	g3	0.36	0/1094	0.74	9/1498 (0.6%)
32	g5	0.36	0/1094	0.74	9/1498 (0.6%)
32	g6	0.36	0/1094	0.74	9/1498 (0.6%)
32	g7	0.36	0/1094	0.74	9/1498 (0.6%)
32	g8	0.36	0/1094	0.74	9/1498 (0.6%)
32	g9	0.36	0/1094	0.74	9/1498 (0.6%)
32	gA	0.36	0/1094	0.74	9/1498 (0.6%)
32	gC	0.36	0/1094	0.74	9/1498 (0.6%)
32	gH	0.36	0/1094	0.74	9/1498 (0.6%)
32	gI	0.36	0/1091	0.74	9/1494 (0.6%)
32	gJ	0.36	0/1094	0.74	9/1498 (0.6%)
32	i2	0.37	0/1093	0.84	13/1497 (0.9%)
32	i3	0.37	0/1093	0.84	13/1497 (0.9%)
32	i5	0.37	0/1093	0.84	13/1497 (0.9%)
32	i6	0.37	0/1093	0.84	13/1497 (0.9%)
32	i7	0.37	0/1093	0.84	13/1497 (0.9%)
32	i8	0.37	0/1093	0.84	13/1497 (0.9%)
32	i9	0.37	0/1093	0.84	13/1497 (0.9%)
32	iA	0.37	0/1093	0.84	13/1497 (0.9%)
32	iC	0.37	0/1093	0.84	13/1497 (0.9%)
32	iH	0.37	0/1093	0.84	13/1497 (0.9%)
32	iI	0.37	0/1093	0.84	13/1497 (0.9%)
32	iJ	0.37	0/1093	0.84	13/1497 (0.9%)
32	k2	0.36	0/1110	0.81	13/1520 (0.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
32	k3	0.36	0/1110	0.81	13/1520 (0.9%)
32	k5	0.36	0/1110	0.81	13/1520 (0.9%)
32	k6	0.36	0/1110	0.81	13/1520 (0.9%)
32	k7	0.36	0/1110	0.81	13/1520 (0.9%)
32	k8	0.36	0/1110	0.81	13/1520 (0.9%)
32	k9	0.36	0/1110	0.81	13/1520 (0.9%)
32	kA	0.36	0/1110	0.81	13/1520 (0.9%)
32	kC	0.36	0/1110	0.81	13/1520 (0.9%)
32	kH	0.36	0/1110	0.81	13/1520 (0.9%)
32	kI	0.36	0/1110	0.81	13/1520 (0.9%)
32	kJ	0.36	0/1110	0.81	13/1520 (0.9%)
32	m2	0.36	0/1104	0.79	10/1514 (0.7%)
32	m3	0.36	0/1104	0.79	10/1514 (0.7%)
32	m5	0.36	0/1104	0.79	10/1514 (0.7%)
32	m6	0.36	0/1104	0.79	10/1514 (0.7%)
32	m7	0.36	0/1104	0.79	10/1514 (0.7%)
32	m8	0.36	0/1104	0.79	10/1514 (0.7%)
32	m9	0.36	0/1104	0.79	10/1514 (0.7%)
32	mA	0.36	0/1104	0.79	10/1514 (0.7%)
32	mC	0.36	0/1104	0.79	10/1514 (0.7%)
32	mH	0.36	0/1104	0.79	10/1514 (0.7%)
32	mI	0.36	0/1104	0.79	10/1514 (0.7%)
32	mJ	0.36	0/1104	0.79	10/1514 (0.7%)
All	All	0.44	21/519767 (0.0%)	0.76	2195/706903 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B5	0	1
1	B8	0	1
1	BC	0	1
1	BH	0	1
1	BJ	0	1
2	B4	0	5
2	BB	0	5
2	C4	0	4
2	CB	0	4
3	GG	0	1
3	GL	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	s4	0	1
3	sB	0	1
4	UG	0	1
4	UL	0	1
4	WG	0	1
4	WL	0	1
4	a4	0	2
4	aB	0	2
4	x4	0	1
4	xB	0	1
5	3F	0	1
5	3K	0	1
5	U4	0	1
5	UB	0	1
6	A1	0	4
6	AD	0	4
6	AE	0	4
6	a1	0	5
6	aD	0	5
6	aE	0	5
7	B1	0	5
7	BD	0	5
7	BE	0	5
7	b1	0	5
7	bD	0	5
7	bE	0	5
8	cE	0	1
9	D1	0	2
9	DD	0	2
9	DE	0	2
9	d1	0	2
9	dD	0	2
9	dE	0	2
12	H1	0	1
12	HD	0	1
12	HE	0	1
12	h1	0	1
12	hD	0	1
12	hE	0	1
13	i1	0	2
13	iD	0	2
13	iE	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
14	j1	0	1
14	jD	0	1
14	jE	0	1
18	O1	0	16
18	OD	0	16
18	OE	0	16
18	o1	0	16
18	oD	0	16
18	oE	0	16
19	Q1	0	3
19	QD	0	3
19	QE	0	3
19	q1	0	3
19	qD	0	3
19	qE	0	3
23	U1	0	2
23	UD	0	2
23	UE	0	2
23	u1	0	2
23	uD	0	2
23	uE	0	2
24	V1	0	1
24	VD	0	1
24	VE	0	1
24	v1	0	2
24	vD	0	2
24	vE	0	2
28	BG	0	1
28	BL	0	1
28	EF	0	1
28	EK	0	1
29	QG	0	1
29	QL	0	1
29	gF	0	1
29	gK	0	1
32	c2	0	1
32	c3	0	1
32	c5	0	1
32	c6	0	1
32	c7	0	1
32	c8	0	1
32	c9	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
32	cA	0	1
32	cC	0	1
32	cH	0	1
32	cI	0	1
32	cJ	0	1
32	e2	0	1
32	e3	0	1
32	e5	0	1
32	e6	0	1
32	e7	0	1
32	e8	0	1
32	e9	0	1
32	eA	0	1
32	eC	0	1
32	eH	0	1
32	eI	0	1
32	eJ	0	1
32	g2	0	1
32	g3	0	1
32	g5	0	1
32	g6	0	1
32	g7	0	1
32	g8	0	1
32	g9	0	1
32	gA	0	1
32	gC	0	1
32	gH	0	1
32	gI	0	1
32	gJ	0	1
32	k2	0	1
32	k3	0	1
32	k5	0	1
32	k6	0	1
32	k7	0	1
32	k8	0	1
32	k9	0	1
32	kA	0	1
32	kC	0	1
32	kH	0	1
32	kI	0	1
32	kJ	0	1
All	All	0	317

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	3F	37	PHE	CE2-CZ	7.52	1.51	1.37
5	3K	37	PHE	CE2-CZ	7.50	1.51	1.37
7	BD	61	PHE	CE2-CZ	6.98	1.50	1.37
7	BE	61	PHE	CE2-CZ	6.98	1.50	1.37
7	B1	61	PHE	CE2-CZ	6.98	1.50	1.37
7	b1	61	PHE	CE2-CZ	6.97	1.50	1.37
7	bD	61	PHE	CE2-CZ	6.97	1.50	1.37
7	bE	61	PHE	CE2-CZ	6.96	1.50	1.37
9	DD	111	TRP	CB-CG	-6.40	1.38	1.50
9	D1	111	TRP	CB-CG	-6.39	1.38	1.50
9	DE	111	TRP	CB-CG	-6.38	1.38	1.50
4	MK	121	VAL	CB-CG2	6.24	1.66	1.52
4	MF	121	VAL	CB-CG2	6.24	1.66	1.52
4	t4	77	ARG	CD-NE	5.53	1.55	1.46
4	tB	77	ARG	CD-NE	5.51	1.55	1.46
9	d1	93	TRP	CB-CG	-5.04	1.41	1.50
7	BD	78	TRP	CB-CG	-5.03	1.41	1.50
9	dE	93	TRP	CB-CG	-5.03	1.41	1.50
9	dD	93	TRP	CB-CG	-5.03	1.41	1.50
7	B1	78	TRP	CB-CG	-5.02	1.41	1.50
7	BE	78	TRP	CB-CG	-5.01	1.41	1.50

All (2195) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BI	212	GLN	C-N-CD	-32.69	48.69	120.60
1	BI	230	ARG	C-N-CD	-30.57	53.35	120.60
1	B2	230	ARG	C-N-CD	-30.57	53.35	120.60
1	B6	230	ARG	C-N-CD	-30.57	53.35	120.60
1	B8	207	VAL	C-N-CD	-26.51	62.27	120.60
1	BJ	207	VAL	C-N-CD	-26.51	62.28	120.60
1	BH	207	VAL	C-N-CD	-26.51	62.28	120.60
1	B5	207	VAL	C-N-CD	-26.50	62.29	120.60
1	B7	230	ARG	C-N-CD	-26.36	62.61	120.60
1	BA	230	ARG	C-N-CD	-26.35	62.62	120.60
1	B3	230	ARG	C-N-CD	-26.35	62.63	120.60
1	BC	230	ARG	C-N-CD	-26.35	62.63	120.60
1	BC	207	VAL	C-N-CD	-18.67	79.52	120.60
1	BA	207	VAL	C-N-CD	-18.66	79.56	120.60
1	B7	207	VAL	C-N-CD	-18.65	79.58	120.60
1	B3	207	VAL	C-N-CD	-18.64	79.58	120.60
1	B7	194	PHE	C-N-CD	-15.17	87.23	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BB	769	ASP	CB-CG-OD1	15.02	131.82	118.30
2	B4	769	ASP	CB-CG-OD1	15.01	131.81	118.30
2	C4	769	ASP	CB-CG-OD1	15.00	131.80	118.30
2	CB	769	ASP	CB-CG-OD1	14.97	131.77	118.30
1	BC	212	GLN	C-N-CD	-14.63	88.41	120.60
1	BA	212	GLN	C-N-CD	-14.61	88.45	120.60
1	B7	212	GLN	C-N-CD	-14.60	88.48	120.60
1	B3	212	GLN	C-N-CD	-14.59	88.50	120.60
28	EK	111	THR	C-N-CD	-11.28	95.80	120.60
28	EF	111	THR	C-N-CD	-11.26	95.83	120.60
12	HE	53	LEU	CA-CB-CG	10.53	139.51	115.30
12	H1	53	LEU	CA-CB-CG	10.53	139.51	115.30
12	HD	53	LEU	CA-CB-CG	10.51	139.48	115.30
4	tB	77	ARG	NE-CZ-NH2	10.39	125.49	120.30
1	B6	194	PHE	C-N-CD	-10.35	97.83	120.60
4	t4	77	ARG	NE-CZ-NH2	10.26	125.43	120.30
4	7G	112	LEU	CB-CG-CD2	10.10	128.16	111.00
4	7L	112	LEU	CB-CG-CD2	10.09	128.15	111.00
1	B8	194	PHE	C-N-CD	-9.95	98.71	120.60
1	B5	194	PHE	C-N-CD	-9.94	98.74	120.60
1	BH	194	PHE	C-N-CD	-9.93	98.75	120.60
1	BJ	194	PHE	C-N-CD	-9.93	98.76	120.60
8	c1	241	THR	C-N-CA	9.81	146.23	121.70
8	cD	241	THR	C-N-CA	9.79	146.18	121.70
8	cE	241	THR	C-N-CA	9.78	146.16	121.70
31	h8	4	PRO	CA-N-CD	-9.72	97.89	111.50
31	hA	4	PRO	CA-N-CD	-9.72	97.89	111.50
31	hC	4	PRO	CA-N-CD	-9.72	97.90	111.50
31	hH	4	PRO	CA-N-CD	-9.70	97.92	111.50
31	h2	4	PRO	CA-N-CD	-9.70	97.92	111.50
31	h6	4	PRO	CA-N-CD	-9.70	97.92	111.50
31	h7	4	PRO	CA-N-CD	-9.70	97.92	111.50
31	hI	4	PRO	CA-N-CD	-9.70	97.93	111.50
31	h3	4	PRO	CA-N-CD	-9.69	97.93	111.50
31	hJ	4	PRO	CA-N-CD	-9.69	97.93	111.50
31	b5	4	PRO	CA-N-CD	-9.68	97.94	111.50
31	j6	4	PRO	CA-N-CD	-9.68	97.94	111.50
31	b8	4	PRO	CA-N-CD	-9.68	97.94	111.50
31	h5	4	PRO	CA-N-CD	-9.68	97.95	111.50
31	j5	4	PRO	CA-N-CD	-9.68	97.95	111.50
31	j3	4	PRO	CA-N-CD	-9.68	97.95	111.50
31	bA	4	PRO	CA-N-CD	-9.67	97.96	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	h1	53	LEU	CA-CB-CG	9.67	137.54	115.30
31	b9	4	PRO	CA-N-CD	-9.67	97.96	111.50
31	dA	4	PRO	CA-N-CD	-9.67	97.96	111.50
31	dI	4	PRO	CA-N-CD	-9.67	97.97	111.50
31	b2	4	PRO	CA-N-CD	-9.66	97.97	111.50
31	f6	4	PRO	CA-N-CD	-9.66	97.97	111.50
31	j9	4	PRO	CA-N-CD	-9.66	97.98	111.50
31	dC	4	PRO	CA-N-CD	-9.66	97.98	111.50
31	lC	4	PRO	CA-N-CD	-9.66	97.98	111.50
31	h9	4	PRO	CA-N-CD	-9.66	97.98	111.50
31	jC	4	PRO	CA-N-CD	-9.66	97.98	111.50
31	bH	4	PRO	CA-N-CD	-9.66	97.98	111.50
31	f2	4	PRO	CA-N-CD	-9.65	97.98	111.50
31	b3	4	PRO	CA-N-CD	-9.65	97.98	111.50
31	f5	4	PRO	CA-N-CD	-9.65	97.98	111.50
31	l7	4	PRO	CA-N-CD	-9.65	97.98	111.50
31	fA	4	PRO	CA-N-CD	-9.65	97.98	111.50
31	lA	4	PRO	CA-N-CD	-9.65	97.98	111.50
12	hD	53	LEU	CA-CB-CG	9.65	137.50	115.30
31	jH	4	PRO	CA-N-CD	-9.65	97.99	111.50
31	j2	4	PRO	CA-N-CD	-9.65	97.99	111.50
31	b6	4	PRO	CA-N-CD	-9.65	97.99	111.50
31	dH	4	PRO	CA-N-CD	-9.65	97.99	111.50
31	f3	4	PRO	CA-N-CD	-9.65	97.99	111.50
31	bC	4	PRO	CA-N-CD	-9.65	98.00	111.50
31	lH	4	PRO	CA-N-CD	-9.65	98.00	111.50
31	bI	4	PRO	CA-N-CD	-9.65	97.99	111.50
31	d2	4	PRO	CA-N-CD	-9.64	98.00	111.50
31	d5	4	PRO	CA-N-CD	-9.64	98.00	111.50
31	l6	4	PRO	CA-N-CD	-9.64	98.00	111.50
31	b7	4	PRO	CA-N-CD	-9.64	98.00	111.50
31	j8	4	PRO	CA-N-CD	-9.64	98.00	111.50
31	f9	4	PRO	CA-N-CD	-9.64	98.00	111.50
31	fC	4	PRO	CA-N-CD	-9.64	98.00	111.50
12	hE	53	LEU	CA-CB-CG	9.64	137.48	115.30
31	d3	4	PRO	CA-N-CD	-9.64	98.00	111.50
31	fJ	4	PRO	CA-N-CD	-9.64	98.00	111.50
31	lJ	4	PRO	CA-N-CD	-9.64	98.00	111.50
31	l5	4	PRO	CA-N-CD	-9.64	98.01	111.50
31	d7	4	PRO	CA-N-CD	-9.64	98.01	111.50
31	f7	4	PRO	CA-N-CD	-9.64	98.01	111.50
31	j7	4	PRO	CA-N-CD	-9.64	98.01	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	f8	4	PRO	CA-N-CD	-9.64	98.01	111.50
31	fH	4	PRO	CA-N-CD	-9.64	98.01	111.50
31	l8	4	PRO	CA-N-CD	-9.63	98.01	111.50
31	bJ	4	PRO	CA-N-CD	-9.63	98.01	111.50
31	d9	4	PRO	CA-N-CD	-9.63	98.02	111.50
31	l9	4	PRO	CA-N-CD	-9.63	98.01	111.50
31	lI	4	PRO	CA-N-CD	-9.63	98.02	111.50
31	dJ	4	PRO	CA-N-CD	-9.63	98.02	111.50
31	jI	4	PRO	CA-N-CD	-9.63	98.02	111.50
7	BE	68	ARG	NE-CZ-NH1	-9.63	115.49	120.30
31	l3	4	PRO	CA-N-CD	-9.63	98.02	111.50
31	d8	4	PRO	CA-N-CD	-9.62	98.03	111.50
31	jJ	4	PRO	CA-N-CD	-9.62	98.03	111.50
31	jA	4	PRO	CA-N-CD	-9.62	98.03	111.50
31	d6	4	PRO	CA-N-CD	-9.62	98.03	111.50
31	fl	4	PRO	CA-N-CD	-9.61	98.05	111.50
31	l2	4	PRO	CA-N-CD	-9.60	98.06	111.50
7	B1	68	ARG	NE-CZ-NH1	-9.60	115.50	120.30
28	BG	111	THR	C-N-CD	-9.58	99.52	120.60
28	BL	111	THR	C-N-CD	-9.57	99.54	120.60
7	b1	68	ARG	NE-CZ-NH1	-9.55	115.52	120.30
7	BD	68	ARG	NE-CZ-NH1	-9.55	115.52	120.30
7	bD	68	ARG	NE-CZ-NH1	-9.55	115.53	120.30
31	j6	106	PRO	CA-N-CD	-9.54	98.15	111.50
31	b7	106	PRO	CA-N-CD	-9.53	98.17	111.50
31	j7	106	PRO	CA-N-CD	-9.53	98.16	111.50
31	jA	106	PRO	CA-N-CD	-9.53	98.17	111.50
31	jI	106	PRO	CA-N-CD	-9.53	98.16	111.50
31	j2	106	PRO	CA-N-CD	-9.52	98.17	111.50
31	jC	106	PRO	CA-N-CD	-9.52	98.17	111.50
31	j9	106	PRO	CA-N-CD	-9.52	98.17	111.50
31	j3	106	PRO	CA-N-CD	-9.52	98.17	111.50
31	bI	106	PRO	CA-N-CD	-9.52	98.18	111.50
3	IL	20	PRO	CA-N-CD	-9.51	98.18	111.50
31	bJ	106	PRO	CA-N-CD	-9.51	98.18	111.50
31	jJ	106	PRO	CA-N-CD	-9.51	98.18	111.50
31	b3	106	PRO	CA-N-CD	-9.51	98.19	111.50
31	j8	106	PRO	CA-N-CD	-9.51	98.19	111.50
31	bA	106	PRO	CA-N-CD	-9.51	98.19	111.50
31	hA	106	PRO	CA-N-CD	-9.51	98.19	111.50
31	jH	106	PRO	CA-N-CD	-9.51	98.19	111.50
31	bH	106	PRO	CA-N-CD	-9.50	98.20	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	bC	106	PRO	CA-N-CD	-9.50	98.20	111.50
31	b8	106	PRO	CA-N-CD	-9.50	98.20	111.50
31	j5	106	PRO	CA-N-CD	-9.49	98.22	111.50
31	b6	106	PRO	CA-N-CD	-9.49	98.21	111.50
31	h8	106	PRO	CA-N-CD	-9.49	98.21	111.50
7	bE	68	ARG	NE-CZ-NH1	-9.49	115.56	120.30
31	fI	106	PRO	CA-N-CD	-9.49	98.22	111.50
3	IG	20	PRO	CA-N-CD	-9.48	98.22	111.50
31	h2	106	PRO	CA-N-CD	-9.48	98.22	111.50
31	b5	106	PRO	CA-N-CD	-9.48	98.22	111.50
31	b2	106	PRO	CA-N-CD	-9.48	98.22	111.50
31	hJ	106	PRO	CA-N-CD	-9.48	98.23	111.50
31	b9	106	PRO	CA-N-CD	-9.48	98.23	111.50
31	fC	106	PRO	CA-N-CD	-9.47	98.24	111.50
31	h3	106	PRO	CA-N-CD	-9.47	98.24	111.50
31	fA	106	PRO	CA-N-CD	-9.47	98.24	111.50
31	hC	106	PRO	CA-N-CD	-9.47	98.24	111.50
31	hH	106	PRO	CA-N-CD	-9.47	98.24	111.50
31	f9	106	PRO	CA-N-CD	-9.47	98.24	111.50
31	h6	106	PRO	CA-N-CD	-9.47	98.25	111.50
31	h5	106	PRO	CA-N-CD	-9.47	98.25	111.50
31	fH	106	PRO	CA-N-CD	-9.46	98.25	111.50
31	f5	106	PRO	CA-N-CD	-9.46	98.25	111.50
31	h9	106	PRO	CA-N-CD	-9.46	98.25	111.50
31	f3	106	PRO	CA-N-CD	-9.46	98.26	111.50
31	h7	106	PRO	CA-N-CD	-9.46	98.26	111.50
31	f8	106	PRO	CA-N-CD	-9.46	98.26	111.50
31	hI	106	PRO	CA-N-CD	-9.45	98.27	111.50
31	fJ	106	PRO	CA-N-CD	-9.45	98.27	111.50
31	l3	106	PRO	CA-N-CD	-9.45	98.27	111.50
31	d2	106	PRO	CA-N-CD	-9.44	98.28	111.50
31	f2	106	PRO	CA-N-CD	-9.44	98.28	111.50
31	dJ	106	PRO	CA-N-CD	-9.45	98.28	111.50
31	d3	106	PRO	CA-N-CD	-9.44	98.28	111.50
31	d6	106	PRO	CA-N-CD	-9.44	98.28	111.50
31	f7	106	PRO	CA-N-CD	-9.44	98.28	111.50
31	f6	106	PRO	CA-N-CD	-9.44	98.29	111.50
31	d8	106	PRO	CA-N-CD	-9.44	98.29	111.50
31	dC	106	PRO	CA-N-CD	-9.43	98.29	111.50
31	dH	106	PRO	CA-N-CD	-9.43	98.29	111.50
31	d5	106	PRO	CA-N-CD	-9.43	98.30	111.50
31	l7	106	PRO	CA-N-CD	-9.42	98.31	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	lC	106	PRO	CA-N-CD	-9.42	98.31	111.50
31	dI	106	PRO	CA-N-CD	-9.42	98.31	111.50
31	lI	106	PRO	CA-N-CD	-9.42	98.31	111.50
31	d7	106	PRO	CA-N-CD	-9.42	98.31	111.50
31	lJ	106	PRO	CA-N-CD	-9.42	98.32	111.50
31	l2	106	PRO	CA-N-CD	-9.41	98.33	111.50
31	d9	106	PRO	CA-N-CD	-9.41	98.33	111.50
31	lH	106	PRO	CA-N-CD	-9.41	98.33	111.50
31	l5	106	PRO	CA-N-CD	-9.40	98.34	111.50
31	lA	106	PRO	CA-N-CD	-9.40	98.34	111.50
31	l8	106	PRO	CA-N-CD	-9.40	98.34	111.50
31	l9	106	PRO	CA-N-CD	-9.40	98.34	111.50
31	dA	106	PRO	CA-N-CD	-9.40	98.34	111.50
31	l6	106	PRO	CA-N-CD	-9.38	98.37	111.50
9	dE	111	TRP	C-N-CA	-9.32	98.39	121.70
9	dD	111	TRP	C-N-CA	-9.32	98.40	121.70
9	d1	111	TRP	C-N-CA	-9.31	98.42	121.70
32	g2	64	PRO	CA-N-CD	-9.26	98.54	111.50
32	gJ	64	PRO	CA-N-CD	-9.26	98.54	111.50
32	g3	64	PRO	CA-N-CD	-9.25	98.55	111.50
32	g7	64	PRO	CA-N-CD	-9.25	98.54	111.50
3	IG	103	PRO	CA-N-CD	-9.24	98.56	111.50
32	gA	64	PRO	CA-N-CD	-9.24	98.56	111.50
32	gI	64	PRO	CA-N-CD	-9.24	98.56	111.50
32	gH	64	PRO	CA-N-CD	-9.24	98.57	111.50
32	g8	64	PRO	CA-N-CD	-9.23	98.57	111.50
3	IL	103	PRO	CA-N-CD	-9.23	98.58	111.50
32	g6	64	PRO	CA-N-CD	-9.23	98.58	111.50
4	MK	112	LEU	CB-CG-CD2	9.23	126.69	111.00
32	g9	64	PRO	CA-N-CD	-9.23	98.58	111.50
32	g5	64	PRO	CA-N-CD	-9.23	98.58	111.50
32	gC	64	PRO	CA-N-CD	-9.23	98.58	111.50
32	k6	64	PRO	CA-N-CD	-9.22	98.59	111.50
32	iI	64	PRO	CA-N-CD	-9.22	98.59	111.50
4	MF	112	LEU	CB-CG-CD2	9.21	126.66	111.00
32	kJ	64	PRO	CA-N-CD	-9.21	98.60	111.50
32	eA	64	PRO	CA-N-CD	-9.21	98.61	111.50
32	e2	64	PRO	CA-N-CD	-9.21	98.61	111.50
32	k8	64	PRO	CA-N-CD	-9.21	98.61	111.50
32	cA	64	PRO	CA-N-CD	-9.21	98.61	111.50
32	i5	64	PRO	CA-N-CD	-9.20	98.62	111.50
32	e7	64	PRO	CA-N-CD	-9.20	98.62	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	c8	64	PRO	CA-N-CD	-9.19	98.63	111.50
32	kH	64	PRO	CA-N-CD	-9.19	98.63	111.50
32	k2	64	PRO	CA-N-CD	-9.19	98.63	111.50
32	k3	64	PRO	CA-N-CD	-9.19	98.63	111.50
32	k7	64	PRO	CA-N-CD	-9.19	98.63	111.50
32	e8	64	PRO	CA-N-CD	-9.19	98.63	111.50
32	eH	64	PRO	CA-N-CD	-9.19	98.64	111.50
32	i2	64	PRO	CA-N-CD	-9.19	98.64	111.50
32	i3	64	PRO	CA-N-CD	-9.19	98.64	111.50
32	iA	64	PRO	CA-N-CD	-9.19	98.64	111.50
32	kC	64	PRO	CA-N-CD	-9.19	98.64	111.50
32	eJ	64	PRO	CA-N-CD	-9.19	98.64	111.50
31	h6	64	PRO	CA-N-CD	-9.19	98.64	111.50
8	cE	353	LEU	CA-CB-CG	9.19	136.43	115.30
3	IG	63	PRO	CA-N-CD	-9.18	98.64	111.50
3	IL	63	PRO	CA-N-CD	-9.18	98.64	111.50
32	k5	64	PRO	CA-N-CD	-9.18	98.64	111.50
32	c6	64	PRO	CA-N-CD	-9.18	98.64	111.50
32	kI	64	PRO	CA-N-CD	-9.18	98.64	111.50
8	c1	353	LEU	CA-CB-CG	9.18	136.42	115.30
32	e6	64	PRO	CA-N-CD	-9.18	98.65	111.50
32	iC	64	PRO	CA-N-CD	-9.18	98.65	111.50
32	i8	64	PRO	CA-N-CD	-9.18	98.65	111.50
32	c9	64	PRO	CA-N-CD	-9.18	98.65	111.50
32	eC	64	PRO	CA-N-CD	-9.18	98.65	111.50
32	cC	64	PRO	CA-N-CD	-9.18	98.65	111.50
32	c2	64	PRO	CA-N-CD	-9.18	98.65	111.50
32	e9	64	PRO	CA-N-CD	-9.18	98.66	111.50
32	i9	64	PRO	CA-N-CD	-9.18	98.65	111.50
8	cD	353	LEU	CA-CB-CG	9.18	136.41	115.30
32	c7	64	PRO	CA-N-CD	-9.17	98.66	111.50
32	cH	64	PRO	CA-N-CD	-9.17	98.66	111.50
32	iH	64	PRO	CA-N-CD	-9.17	98.66	111.50
32	c5	64	PRO	CA-N-CD	-9.17	98.66	111.50
32	e5	64	PRO	CA-N-CD	-9.17	98.66	111.50
32	kA	64	PRO	CA-N-CD	-9.17	98.66	111.50
31	h2	64	PRO	CA-N-CD	-9.17	98.67	111.50
32	e3	64	PRO	CA-N-CD	-9.17	98.67	111.50
32	i6	64	PRO	CA-N-CD	-9.17	98.67	111.50
31	hH	64	PRO	CA-N-CD	-9.17	98.67	111.50
31	hI	64	PRO	CA-N-CD	-9.17	98.66	111.50
31	h7	64	PRO	CA-N-CD	-9.16	98.67	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	cI	64	PRO	CA-N-CD	-9.16	98.67	111.50
32	c3	64	PRO	CA-N-CD	-9.16	98.67	111.50
31	h3	64	PRO	CA-N-CD	-9.16	98.67	111.50
31	h5	64	PRO	CA-N-CD	-9.16	98.67	111.50
32	m9	64	PRO	CA-N-CD	-9.16	98.67	111.50
31	h8	64	PRO	CA-N-CD	-9.16	98.67	111.50
32	k9	64	PRO	CA-N-CD	-9.16	98.67	111.50
32	mI	64	PRO	CA-N-CD	-9.16	98.67	111.50
31	hJ	64	PRO	CA-N-CD	-9.16	98.68	111.50
32	eI	64	PRO	CA-N-CD	-9.16	98.68	111.50
32	mJ	64	PRO	CA-N-CD	-9.16	98.68	111.50
32	m5	64	PRO	CA-N-CD	-9.15	98.69	111.50
31	h9	64	PRO	CA-N-CD	-9.15	98.69	111.50
32	cJ	64	PRO	CA-N-CD	-9.15	98.69	111.50
32	m7	64	PRO	CA-N-CD	-9.15	98.69	111.50
31	hA	64	PRO	CA-N-CD	-9.15	98.69	111.50
32	iJ	64	PRO	CA-N-CD	-9.15	98.69	111.50
31	hC	64	PRO	CA-N-CD	-9.15	98.70	111.50
32	m3	64	PRO	CA-N-CD	-9.14	98.70	111.50
32	i7	64	PRO	CA-N-CD	-9.14	98.70	111.50
32	mH	64	PRO	CA-N-CD	-9.14	98.70	111.50
32	m8	64	PRO	CA-N-CD	-9.14	98.71	111.50
32	mA	64	PRO	CA-N-CD	-9.13	98.71	111.50
31	j3	64	PRO	CA-N-CD	-9.13	98.72	111.50
31	j9	64	PRO	CA-N-CD	-9.13	98.72	111.50
31	fJ	64	PRO	CA-N-CD	-9.13	98.72	111.50
32	m2	64	PRO	CA-N-CD	-9.13	98.72	111.50
32	mC	64	PRO	CA-N-CD	-9.13	98.72	111.50
31	f2	64	PRO	CA-N-CD	-9.12	98.73	111.50
31	f7	64	PRO	CA-N-CD	-9.12	98.73	111.50
32	m6	64	PRO	CA-N-CD	-9.12	98.73	111.50
31	fI	64	PRO	CA-N-CD	-9.12	98.73	111.50
31	fC	64	PRO	CA-N-CD	-9.12	98.74	111.50
31	j8	64	PRO	CA-N-CD	-9.11	98.74	111.50
31	jI	64	PRO	CA-N-CD	-9.11	98.74	111.50
31	f5	64	PRO	CA-N-CD	-9.11	98.75	111.50
31	j6	64	PRO	CA-N-CD	-9.11	98.75	111.50
31	II	64	PRO	CA-N-CD	-9.11	98.75	111.50
31	j7	64	PRO	CA-N-CD	-9.11	98.75	111.50
31	f8	64	PRO	CA-N-CD	-9.10	98.75	111.50
31	jC	64	PRO	CA-N-CD	-9.10	98.76	111.50
31	fH	64	PRO	CA-N-CD	-9.10	98.76	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	f6	64	PRO	CA-N-CD	-9.10	98.76	111.50
31	dC	64	PRO	CA-N-CD	-9.10	98.77	111.50
31	jH	64	PRO	CA-N-CD	-9.10	98.77	111.50
31	j5	64	PRO	CA-N-CD	-9.09	98.77	111.50
31	f9	64	PRO	CA-N-CD	-9.09	98.77	111.50
31	lJ	64	PRO	CA-N-CD	-9.09	98.78	111.50
31	j2	64	PRO	CA-N-CD	-9.09	98.78	111.50
31	fA	64	PRO	CA-N-CD	-9.09	98.78	111.50
31	jJ	64	PRO	CA-N-CD	-9.09	98.78	111.50
31	d9	64	PRO	CA-N-CD	-9.09	98.78	111.50
31	dA	64	PRO	CA-N-CD	-9.09	98.78	111.50
31	lA	64	PRO	CA-N-CD	-9.08	98.79	111.50
31	l5	64	PRO	CA-N-CD	-9.08	98.79	111.50
31	l2	64	PRO	CA-N-CD	-9.08	98.79	111.50
31	f3	64	PRO	CA-N-CD	-9.08	98.79	111.50
31	l7	64	PRO	CA-N-CD	-9.08	98.79	111.50
31	jA	64	PRO	CA-N-CD	-9.07	98.79	111.50
31	lH	64	PRO	CA-N-CD	-9.07	98.79	111.50
31	d8	64	PRO	CA-N-CD	-9.07	98.80	111.50
31	l9	64	PRO	CA-N-CD	-9.07	98.80	111.50
31	j2	126	PRO	CA-N-CD	-9.07	98.80	111.50
31	l8	64	PRO	CA-N-CD	-9.07	98.80	111.50
31	l6	64	PRO	CA-N-CD	-9.07	98.80	111.50
31	dH	64	PRO	CA-N-CD	-9.07	98.81	111.50
31	lC	64	PRO	CA-N-CD	-9.06	98.81	111.50
31	b2	64	PRO	CA-N-CD	-9.06	98.81	111.50
31	j5	126	PRO	CA-N-CD	-9.06	98.81	111.50
31	j7	126	PRO	CA-N-CD	-9.06	98.81	111.50
31	b8	64	PRO	CA-N-CD	-9.06	98.81	111.50
31	jC	126	PRO	CA-N-CD	-9.06	98.81	111.50
31	bC	64	PRO	CA-N-CD	-9.06	98.81	111.50
31	bI	64	PRO	CA-N-CD	-9.06	98.81	111.50
31	jJ	126	PRO	CA-N-CD	-9.06	98.81	111.50
31	d5	64	PRO	CA-N-CD	-9.06	98.82	111.50
31	jH	126	PRO	CA-N-CD	-9.06	98.82	111.50
31	l3	64	PRO	CA-N-CD	-9.06	98.82	111.50
31	d6	64	PRO	CA-N-CD	-9.06	98.82	111.50
31	jA	126	PRO	CA-N-CD	-9.06	98.82	111.50
31	jI	126	PRO	CA-N-CD	-9.06	98.82	111.50
32	g2	145	PRO	CA-N-CD	-9.05	98.82	111.50
31	d7	64	PRO	CA-N-CD	-9.06	98.82	111.50
32	g5	145	PRO	CA-N-CD	-9.05	98.82	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	j6	126	PRO	CA-N-CD	-9.05	98.83	111.50
31	b9	64	PRO	CA-N-CD	-9.05	98.83	111.50
31	lC	126	PRO	CA-N-CD	-9.05	98.82	111.50
31	d3	64	PRO	CA-N-CD	-9.05	98.83	111.50
32	g8	145	PRO	CA-N-CD	-9.05	98.83	111.50
31	j8	126	PRO	CA-N-CD	-9.05	98.83	111.50
31	dJ	64	PRO	CA-N-CD	-9.05	98.83	111.50
31	b3	64	PRO	CA-N-CD	-9.05	98.84	111.50
31	b7	64	PRO	CA-N-CD	-9.05	98.84	111.50
31	l9	126	PRO	CA-N-CD	-9.04	98.84	111.50
31	bA	64	PRO	CA-N-CD	-9.05	98.83	111.50
31	bA	126	PRO	CA-N-CD	-9.04	98.84	111.50
32	gA	145	PRO	CA-N-CD	-9.04	98.84	111.50
31	bH	64	PRO	CA-N-CD	-9.04	98.84	111.50
31	j3	126	PRO	CA-N-CD	-9.04	98.84	111.50
31	j9	126	PRO	CA-N-CD	-9.04	98.84	111.50
31	l5	126	PRO	CA-N-CD	-9.04	98.84	111.50
31	b8	126	PRO	CA-N-CD	-9.04	98.84	111.50
31	h9	126	PRO	CA-N-CD	-9.04	98.84	111.50
32	gH	145	PRO	CA-N-CD	-9.04	98.84	111.50
31	d2	64	PRO	CA-N-CD	-9.04	98.84	111.50
31	b3	126	PRO	CA-N-CD	-9.04	98.85	111.50
31	h3	126	PRO	CA-N-CD	-9.04	98.84	111.50
31	b6	126	PRO	CA-N-CD	-9.04	98.84	111.50
31	d6	126	PRO	CA-N-CD	-9.04	98.85	111.50
31	b9	126	PRO	CA-N-CD	-9.04	98.84	111.50
32	gC	145	PRO	CA-N-CD	-9.04	98.85	111.50
31	f5	126	PRO	CA-N-CD	-9.04	98.85	111.50
32	g6	145	PRO	CA-N-CD	-9.04	98.85	111.50
31	h7	126	PRO	CA-N-CD	-9.04	98.85	111.50
31	hI	126	PRO	CA-N-CD	-9.04	98.85	111.50
31	bJ	64	PRO	CA-N-CD	-9.04	98.85	111.50
31	d9	126	PRO	CA-N-CD	-9.04	98.85	111.50
31	dI	64	PRO	CA-N-CD	-9.04	98.85	111.50
31	hJ	126	PRO	CA-N-CD	-9.04	98.85	111.50
31	b5	64	PRO	CA-N-CD	-9.03	98.85	111.50
32	g7	145	PRO	CA-N-CD	-9.03	98.85	111.50
31	l7	126	PRO	CA-N-CD	-9.03	98.85	111.50
31	f8	126	PRO	CA-N-CD	-9.03	98.85	111.50
32	gI	145	PRO	CA-N-CD	-9.03	98.85	111.50
31	h6	126	PRO	CA-N-CD	-9.03	98.85	111.50
31	hC	126	PRO	CA-N-CD	-9.03	98.86	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	lH	126	PRO	CA-N-CD	-9.03	98.86	111.50
31	b7	126	PRO	CA-N-CD	-9.03	98.86	111.50
31	fI	126	PRO	CA-N-CD	-9.03	98.86	111.50
31	bJ	126	PRO	CA-N-CD	-9.03	98.86	111.50
32	g3	145	PRO	CA-N-CD	-9.03	98.86	111.50
31	l3	126	PRO	CA-N-CD	-9.03	98.86	111.50
31	fA	126	PRO	CA-N-CD	-9.03	98.86	111.50
31	b6	64	PRO	CA-N-CD	-9.03	98.87	111.50
31	l8	126	PRO	CA-N-CD	-9.03	98.86	111.50
31	f9	126	PRO	CA-N-CD	-9.03	98.86	111.50
31	hA	126	PRO	CA-N-CD	-9.03	98.86	111.50
31	hH	126	PRO	CA-N-CD	-9.03	98.86	111.50
31	bI	126	PRO	CA-N-CD	-9.03	98.86	111.50
31	f3	126	PRO	CA-N-CD	-9.02	98.87	111.50
31	lI	126	PRO	CA-N-CD	-9.02	98.87	111.50
31	l2	126	PRO	CA-N-CD	-9.02	98.87	111.50
31	l6	126	PRO	CA-N-CD	-9.02	98.87	111.50
32	g9	145	PRO	CA-N-CD	-9.02	98.87	111.50
31	b2	126	PRO	CA-N-CD	-9.02	98.87	111.50
31	h8	126	PRO	CA-N-CD	-9.02	98.88	111.50
31	fH	126	PRO	CA-N-CD	-9.02	98.87	111.50
31	lJ	126	PRO	CA-N-CD	-9.02	98.87	111.50
31	h5	126	PRO	CA-N-CD	-9.02	98.88	111.50
31	f6	126	PRO	CA-N-CD	-9.02	98.88	111.50
31	bC	126	PRO	CA-N-CD	-9.02	98.88	111.50
31	bH	126	PRO	CA-N-CD	-9.02	98.88	111.50
31	fJ	126	PRO	CA-N-CD	-9.02	98.88	111.50
32	gJ	145	PRO	CA-N-CD	-9.02	98.88	111.50
31	dJ	126	PRO	CA-N-CD	-9.01	98.88	111.50
31	f7	126	PRO	CA-N-CD	-9.01	98.88	111.50
31	d8	126	PRO	CA-N-CD	-9.01	98.89	111.50
31	dH	126	PRO	CA-N-CD	-9.01	98.89	111.50
31	lA	126	PRO	CA-N-CD	-9.01	98.89	111.50
31	d7	126	PRO	CA-N-CD	-9.00	98.89	111.50
31	b5	126	PRO	CA-N-CD	-9.00	98.90	111.50
31	dA	126	PRO	CA-N-CD	-9.00	98.89	111.50
31	f2	126	PRO	CA-N-CD	-9.00	98.90	111.50
31	h2	126	PRO	CA-N-CD	-9.00	98.90	111.50
31	d2	126	PRO	CA-N-CD	-9.00	98.90	111.50
31	d3	126	PRO	CA-N-CD	-8.99	98.91	111.50
31	fC	126	PRO	CA-N-CD	-8.99	98.91	111.50
23	UE	38	LEU	CA-CB-CG	8.99	135.97	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	UD	38	LEU	CA-CB-CG	8.99	135.97	115.30
31	dC	126	PRO	CA-N-CD	-8.99	98.92	111.50
31	dI	126	PRO	CA-N-CD	-8.99	98.92	111.50
23	U1	38	LEU	CA-CB-CG	8.98	135.96	115.30
31	d5	126	PRO	CA-N-CD	-8.98	98.93	111.50
23	uD	38	LEU	CA-CB-CG	8.96	135.92	115.30
23	u1	38	LEU	CA-CB-CG	8.96	135.91	115.30
32	eI	69	PRO	CA-N-CD	-8.96	98.96	111.50
23	uE	38	LEU	CA-CB-CG	8.95	135.89	115.30
32	e3	69	PRO	CA-N-CD	-8.95	98.97	111.50
32	m7	145	PRO	CA-N-CD	-8.95	98.97	111.50
32	c5	69	PRO	CA-N-CD	-8.95	98.98	111.50
32	m6	145	PRO	CA-N-CD	-8.94	98.98	111.50
32	mC	145	PRO	CA-N-CD	-8.94	98.98	111.50
3	IG	122	PRO	CA-N-CD	-8.94	98.98	111.50
32	e9	69	PRO	CA-N-CD	-8.94	98.98	111.50
3	IL	122	PRO	CA-N-CD	-8.94	98.98	111.50
32	eA	69	PRO	CA-N-CD	-8.94	98.98	111.50
32	e7	69	PRO	CA-N-CD	-8.94	98.99	111.50
32	m9	145	PRO	CA-N-CD	-8.94	98.99	111.50
32	e6	69	PRO	CA-N-CD	-8.93	98.99	111.50
32	m2	145	PRO	CA-N-CD	-8.93	99.00	111.50
32	e2	69	PRO	CA-N-CD	-8.93	99.00	111.50
32	eH	69	PRO	CA-N-CD	-8.93	99.00	111.50
32	e5	69	PRO	CA-N-CD	-8.93	99.00	111.50
32	mH	145	PRO	CA-N-CD	-8.93	99.00	111.50
32	m8	145	PRO	CA-N-CD	-8.93	99.00	111.50
32	eC	69	PRO	CA-N-CD	-8.93	99.00	111.50
32	cI	69	PRO	CA-N-CD	-8.93	99.00	111.50
32	mI	145	PRO	CA-N-CD	-8.93	99.00	111.50
32	eJ	69	PRO	CA-N-CD	-8.93	99.00	111.50
32	e8	69	PRO	CA-N-CD	-8.92	99.01	111.50
32	c6	69	PRO	CA-N-CD	-8.92	99.02	111.50
32	kA	69	PRO	CA-N-CD	-8.91	99.02	111.50
32	mA	145	PRO	CA-N-CD	-8.91	99.02	111.50
32	m5	145	PRO	CA-N-CD	-8.91	99.02	111.50
32	c7	69	PRO	CA-N-CD	-8.91	99.03	111.50
32	c2	69	PRO	CA-N-CD	-8.91	99.03	111.50
32	k2	69	PRO	CA-N-CD	-8.91	99.03	111.50
32	m3	69	PRO	CA-N-CD	-8.91	99.03	111.50
32	g6	69	PRO	CA-N-CD	-8.91	99.03	111.50
32	m3	145	PRO	CA-N-CD	-8.91	99.03	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	mJ	145	PRO	CA-N-CD	-8.91	99.03	111.50
32	i7	69	PRO	CA-N-CD	-8.90	99.03	111.50
32	k8	69	PRO	CA-N-CD	-8.90	99.03	111.50
32	cC	69	PRO	CA-N-CD	-8.90	99.03	111.50
32	iJ	145	PRO	CA-N-CD	-8.90	99.03	111.50
32	kJ	69	PRO	CA-N-CD	-8.90	99.03	111.50
32	cH	69	PRO	CA-N-CD	-8.90	99.04	111.50
32	m6	69	PRO	CA-N-CD	-8.90	99.04	111.50
32	c3	69	PRO	CA-N-CD	-8.90	99.04	111.50
32	c8	69	PRO	CA-N-CD	-8.90	99.04	111.50
32	i8	69	PRO	CA-N-CD	-8.90	99.04	111.50
32	kH	69	PRO	CA-N-CD	-8.90	99.04	111.50
32	gJ	69	PRO	CA-N-CD	-8.90	99.04	111.50
32	iJ	69	PRO	CA-N-CD	-8.90	99.04	111.50
32	mI	69	PRO	CA-N-CD	-8.89	99.05	111.50
32	k9	69	PRO	CA-N-CD	-8.89	99.05	111.50
32	iA	69	PRO	CA-N-CD	-8.89	99.05	111.50
32	iC	145	PRO	CA-N-CD	-8.89	99.05	111.50
32	i2	69	PRO	CA-N-CD	-8.89	99.06	111.50
32	k6	69	PRO	CA-N-CD	-8.89	99.06	111.50
32	iI	69	PRO	CA-N-CD	-8.89	99.06	111.50
32	g8	69	PRO	CA-N-CD	-8.89	99.06	111.50
32	iC	69	PRO	CA-N-CD	-8.89	99.06	111.50
32	i5	69	PRO	CA-N-CD	-8.89	99.06	111.50
32	i8	145	PRO	CA-N-CD	-8.89	99.06	111.50
32	k7	69	PRO	CA-N-CD	-8.88	99.06	111.50
32	kC	69	PRO	CA-N-CD	-8.88	99.06	111.50
32	iH	145	PRO	CA-N-CD	-8.88	99.06	111.50
32	iI	145	PRO	CA-N-CD	-8.88	99.06	111.50
32	i5	145	PRO	CA-N-CD	-8.88	99.06	111.50
32	g7	69	PRO	CA-N-CD	-8.88	99.06	111.50
32	iA	145	PRO	CA-N-CD	-8.88	99.06	111.50
32	i2	145	PRO	CA-N-CD	-8.88	99.07	111.50
32	g9	69	PRO	CA-N-CD	-8.88	99.07	111.50
32	cA	69	PRO	CA-N-CD	-8.88	99.07	111.50
32	iH	69	PRO	CA-N-CD	-8.88	99.07	111.50
32	kI	69	PRO	CA-N-CD	-8.88	99.07	111.50
32	k3	69	PRO	CA-N-CD	-8.88	99.07	111.50
32	i9	145	PRO	CA-N-CD	-8.88	99.07	111.50
32	m9	69	PRO	CA-N-CD	-8.88	99.07	111.50
32	gA	69	PRO	CA-N-CD	-8.88	99.07	111.50
32	c9	69	PRO	CA-N-CD	-8.88	99.07	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	gH	69	PRO	CA-N-CD	-8.88	99.07	111.50
32	mH	69	PRO	CA-N-CD	-8.88	99.07	111.50
32	i9	69	PRO	CA-N-CD	-8.87	99.08	111.50
32	mC	69	PRO	CA-N-CD	-8.88	99.07	111.50
32	cJ	69	PRO	CA-N-CD	-8.88	99.07	111.50
32	i3	145	PRO	CA-N-CD	-8.87	99.08	111.50
32	g3	69	PRO	CA-N-CD	-8.87	99.08	111.50
32	i6	69	PRO	CA-N-CD	-8.87	99.08	111.50
32	i7	145	PRO	CA-N-CD	-8.87	99.08	111.50
32	m8	69	PRO	CA-N-CD	-8.87	99.08	111.50
32	m2	69	PRO	CA-N-CD	-8.87	99.08	111.50
32	k5	69	PRO	CA-N-CD	-8.87	99.08	111.50
32	i3	69	PRO	CA-N-CD	-8.87	99.08	111.50
32	m5	69	PRO	CA-N-CD	-8.87	99.08	111.50
32	mJ	69	PRO	CA-N-CD	-8.87	99.09	111.50
32	m7	69	PRO	CA-N-CD	-8.86	99.09	111.50
32	gI	69	PRO	CA-N-CD	-8.86	99.09	111.50
32	mA	69	PRO	CA-N-CD	-8.86	99.09	111.50
32	g5	69	PRO	CA-N-CD	-8.86	99.10	111.50
32	i6	145	PRO	CA-N-CD	-8.86	99.10	111.50
32	g2	69	PRO	CA-N-CD	-8.86	99.10	111.50
32	gC	69	PRO	CA-N-CD	-8.85	99.10	111.50
1	B7	81	ARG	NE-CZ-NH1	8.85	124.72	120.30
32	gA	123	PRO	CA-N-CD	-8.83	99.14	111.50
32	g2	123	PRO	CA-N-CD	-8.81	99.17	111.50
32	c5	123	PRO	CA-N-CD	-8.80	99.18	111.50
32	c9	123	PRO	CA-N-CD	-8.79	99.19	111.50
32	g8	123	PRO	CA-N-CD	-8.79	99.19	111.50
32	g5	123	PRO	CA-N-CD	-8.79	99.20	111.50
32	gH	123	PRO	CA-N-CD	-8.79	99.20	111.50
32	g6	123	PRO	CA-N-CD	-8.78	99.20	111.50
32	g9	123	PRO	CA-N-CD	-8.78	99.20	111.50
11	FD	25	LEU	CA-CB-CG	8.78	135.49	115.30
32	cC	123	PRO	CA-N-CD	-8.78	99.21	111.50
32	gC	123	PRO	CA-N-CD	-8.78	99.21	111.50
32	gI	123	PRO	CA-N-CD	-8.78	99.21	111.50
1	BC	194	PHE	C-N-CD	-8.78	101.29	120.60
3	IL	68	PRO	CA-N-CD	-8.78	99.22	111.50
32	g7	123	PRO	CA-N-CD	-8.78	99.21	111.50
32	g3	123	PRO	CA-N-CD	-8.77	99.22	111.50
32	eC	123	PRO	CA-N-CD	-8.77	99.22	111.50
1	B3	81	ARG	NE-CZ-NH1	8.77	124.69	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	IG	68	PRO	CA-N-CD	-8.77	99.22	111.50
11	F1	25	LEU	CA-CB-CG	8.77	135.47	115.30
32	cH	123	PRO	CA-N-CD	-8.77	99.22	111.50
32	cI	123	PRO	CA-N-CD	-8.77	99.22	111.50
1	BC	81	ARG	NE-CZ-NH1	8.77	124.68	120.30
32	cJ	123	PRO	CA-N-CD	-8.77	99.23	111.50
11	FE	25	LEU	CA-CB-CG	8.76	135.45	115.30
32	c6	123	PRO	CA-N-CD	-8.76	99.23	111.50
32	c8	123	PRO	CA-N-CD	-8.76	99.23	111.50
32	cA	123	PRO	CA-N-CD	-8.76	99.23	111.50
32	gJ	123	PRO	CA-N-CD	-8.76	99.23	111.50
11	f1	25	LEU	CA-CB-CG	8.76	135.45	115.30
11	fD	25	LEU	CA-CB-CG	8.76	135.44	115.30
32	iI	123	PRO	CA-N-CD	-8.76	99.24	111.50
32	c2	123	PRO	CA-N-CD	-8.75	99.24	111.50
32	k9	123	PRO	CA-N-CD	-8.75	99.25	111.50
32	e2	123	PRO	CA-N-CD	-8.75	99.25	111.50
32	eA	123	PRO	CA-N-CD	-8.75	99.25	111.50
32	k5	123	PRO	CA-N-CD	-8.75	99.25	111.50
32	kA	123	PRO	CA-N-CD	-8.75	99.25	111.50
32	e6	123	PRO	CA-N-CD	-8.75	99.25	111.50
32	c7	123	PRO	CA-N-CD	-8.75	99.25	111.50
32	c3	123	PRO	CA-N-CD	-8.74	99.26	111.50
11	fE	25	LEU	CA-CB-CG	8.74	135.41	115.30
32	eH	123	PRO	CA-N-CD	-8.74	99.26	111.50
32	iJ	123	PRO	CA-N-CD	-8.74	99.26	111.50
32	e3	123	PRO	CA-N-CD	-8.74	99.27	111.50
32	k3	123	PRO	CA-N-CD	-8.74	99.26	111.50
32	m7	123	PRO	CA-N-CD	-8.74	99.26	111.50
32	e8	123	PRO	CA-N-CD	-8.74	99.26	111.50
32	m9	123	PRO	CA-N-CD	-8.74	99.26	111.50
32	iA	123	PRO	CA-N-CD	-8.74	99.26	111.50
32	k2	123	PRO	CA-N-CD	-8.74	99.27	111.50
32	kJ	123	PRO	CA-N-CD	-8.74	99.27	111.50
32	i3	123	PRO	CA-N-CD	-8.73	99.27	111.50
32	cC	145	PRO	CA-N-CD	-8.73	99.27	111.50
32	iC	123	PRO	CA-N-CD	-8.73	99.27	111.50
32	kI	123	PRO	CA-N-CD	-8.73	99.27	111.50
32	iH	123	PRO	CA-N-CD	-8.73	99.28	111.50
32	i2	123	PRO	CA-N-CD	-8.73	99.28	111.50
32	e6	145	PRO	CA-N-CD	-8.73	99.28	111.50
32	i6	123	PRO	CA-N-CD	-8.73	99.28	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	kH	123	PRO	CA-N-CD	-8.73	99.28	111.50
32	m6	123	PRO	CA-N-CD	-8.73	99.28	111.50
32	e7	123	PRO	CA-N-CD	-8.73	99.28	111.50
32	i7	123	PRO	CA-N-CD	-8.73	99.28	111.50
32	e9	123	PRO	CA-N-CD	-8.72	99.29	111.50
32	mJ	123	PRO	CA-N-CD	-8.72	99.29	111.50
32	c3	145	PRO	CA-N-CD	-8.72	99.29	111.50
32	e5	145	PRO	CA-N-CD	-8.72	99.29	111.50
32	k7	123	PRO	CA-N-CD	-8.72	99.29	111.50
32	e9	145	PRO	CA-N-CD	-8.72	99.29	111.50
32	kC	123	PRO	CA-N-CD	-8.72	99.29	111.50
32	eJ	145	PRO	CA-N-CD	-8.72	99.29	111.50
32	e5	123	PRO	CA-N-CD	-8.72	99.29	111.50
32	c7	145	PRO	CA-N-CD	-8.72	99.30	111.50
32	i8	123	PRO	CA-N-CD	-8.72	99.30	111.50
32	k8	123	PRO	CA-N-CD	-8.72	99.29	111.50
32	i9	123	PRO	CA-N-CD	-8.72	99.30	111.50
1	B9	81	ARG	NE-CZ-NH1	8.72	124.66	120.30
32	eC	145	PRO	CA-N-CD	-8.72	99.29	111.50
32	cJ	145	PRO	CA-N-CD	-8.72	99.30	111.50
32	eJ	123	PRO	CA-N-CD	-8.72	99.30	111.50
32	i5	123	PRO	CA-N-CD	-8.71	99.30	111.50
32	e8	145	PRO	CA-N-CD	-8.71	99.30	111.50
32	eA	145	PRO	CA-N-CD	-8.71	99.30	111.50
32	mH	123	PRO	CA-N-CD	-8.71	99.30	111.50
32	e7	145	PRO	CA-N-CD	-8.71	99.31	111.50
32	c9	145	PRO	CA-N-CD	-8.71	99.31	111.50
32	mA	123	PRO	CA-N-CD	-8.71	99.30	111.50
32	cH	145	PRO	CA-N-CD	-8.71	99.30	111.50
32	eH	145	PRO	CA-N-CD	-8.71	99.30	111.50
32	eI	123	PRO	CA-N-CD	-8.71	99.31	111.50
32	c2	145	PRO	CA-N-CD	-8.71	99.31	111.50
32	m2	123	PRO	CA-N-CD	-8.71	99.31	111.50
32	mI	123	PRO	CA-N-CD	-8.71	99.31	111.50
32	c5	145	PRO	CA-N-CD	-8.70	99.31	111.50
32	m5	123	PRO	CA-N-CD	-8.71	99.31	111.50
32	m3	123	PRO	CA-N-CD	-8.70	99.32	111.50
32	c6	145	PRO	CA-N-CD	-8.70	99.32	111.50
32	cA	145	PRO	CA-N-CD	-8.70	99.32	111.50
32	cI	145	PRO	CA-N-CD	-8.70	99.32	111.50
1	B5	81	ARG	NE-CZ-NH1	8.70	124.65	120.30
32	e2	145	PRO	CA-N-CD	-8.70	99.32	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	e3	145	PRO	CA-N-CD	-8.70	99.32	111.50
32	k6	123	PRO	CA-N-CD	-8.70	99.33	111.50
32	m8	123	PRO	CA-N-CD	-8.70	99.33	111.50
32	e8	150	PRO	CA-N-CD	-8.69	99.33	111.50
32	eA	150	PRO	CA-N-CD	-8.69	99.33	111.50
32	c8	145	PRO	CA-N-CD	-8.69	99.33	111.50
32	mC	123	PRO	CA-N-CD	-8.69	99.33	111.50
32	e6	150	PRO	CA-N-CD	-8.68	99.34	111.50
32	eC	150	PRO	CA-N-CD	-8.68	99.35	111.50
32	eI	145	PRO	CA-N-CD	-8.68	99.35	111.50
1	BI	81	ARG	NE-CZ-NH1	8.68	124.64	120.30
32	eJ	150	PRO	CA-N-CD	-8.68	99.35	111.50
32	e2	150	PRO	CA-N-CD	-8.67	99.36	111.50
1	B2	81	ARG	NE-CZ-NH1	8.66	124.63	120.30
32	eH	150	PRO	CA-N-CD	-8.66	99.37	111.50
32	e5	150	PRO	CA-N-CD	-8.66	99.38	111.50
32	eI	150	PRO	CA-N-CD	-8.66	99.37	111.50
32	e9	150	PRO	CA-N-CD	-8.66	99.38	111.50
32	e3	150	PRO	CA-N-CD	-8.65	99.39	111.50
31	b6	72	PRO	CA-N-CD	-8.65	99.39	111.50
31	bA	72	PRO	CA-N-CD	-8.63	99.41	111.50
32	e7	150	PRO	CA-N-CD	-8.63	99.41	111.50
31	b2	72	PRO	CA-N-CD	-8.63	99.42	111.50
31	bJ	72	PRO	CA-N-CD	-8.62	99.43	111.50
31	bI	72	PRO	CA-N-CD	-8.62	99.43	111.50
31	bH	72	PRO	CA-N-CD	-8.62	99.44	111.50
31	b7	72	PRO	CA-N-CD	-8.62	99.44	111.50
1	B8	81	ARG	NE-CZ-NH1	8.62	124.61	120.30
31	b8	72	PRO	CA-N-CD	-8.61	99.44	111.50
31	h8	72	PRO	CA-N-CD	-8.62	99.44	111.50
31	bC	72	PRO	CA-N-CD	-8.61	99.44	111.50
31	b9	72	PRO	CA-N-CD	-8.61	99.44	111.50
1	BA	81	ARG	NE-CZ-NH1	8.61	124.61	120.30
31	b5	72	PRO	CA-N-CD	-8.61	99.45	111.50
31	d9	72	PRO	CA-N-CD	-8.61	99.45	111.50
31	f7	72	PRO	CA-N-CD	-8.60	99.45	111.50
31	hJ	72	PRO	CA-N-CD	-8.60	99.46	111.50
1	BJ	81	ARG	NE-CZ-NH1	8.60	124.60	120.30
31	h5	72	PRO	CA-N-CD	-8.60	99.46	111.50
31	hC	72	PRO	CA-N-CD	-8.60	99.46	111.50
1	BH	81	ARG	NE-CZ-NH1	8.60	124.60	120.30
31	h9	72	PRO	CA-N-CD	-8.60	99.46	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	b3	72	PRO	CA-N-CD	-8.59	99.47	111.50
31	fA	72	PRO	CA-N-CD	-8.59	99.47	111.50
31	hH	72	PRO	CA-N-CD	-8.59	99.47	111.50
31	dI	72	PRO	CA-N-CD	-8.59	99.47	111.50
19	q1	123	ASP	CB-CG-OD1	8.59	126.03	118.30
31	h6	72	PRO	CA-N-CD	-8.59	99.47	111.50
1	B7	81	ARG	NE-CZ-NH2	-8.59	116.01	120.30
31	h2	72	PRO	CA-N-CD	-8.59	99.48	111.50
31	f5	72	PRO	CA-N-CD	-8.59	99.48	111.50
31	d6	72	PRO	CA-N-CD	-8.59	99.48	111.50
31	d7	72	PRO	CA-N-CD	-8.59	99.48	111.50
31	l9	72	PRO	CA-N-CD	-8.58	99.48	111.50
31	fI	72	PRO	CA-N-CD	-8.58	99.48	111.50
31	f6	72	PRO	CA-N-CD	-8.58	99.49	111.50
31	hI	72	PRO	CA-N-CD	-8.58	99.49	111.50
31	l3	72	PRO	CA-N-CD	-8.58	99.49	111.50
31	f9	72	PRO	CA-N-CD	-8.58	99.49	111.50
31	hA	72	PRO	CA-N-CD	-8.58	99.49	111.50
31	fC	72	PRO	CA-N-CD	-8.58	99.49	111.50
19	qD	123	ASP	CB-CG-OD1	8.58	126.02	118.30
31	dH	72	PRO	CA-N-CD	-8.58	99.49	111.50
31	l8	72	PRO	CA-N-CD	-8.57	99.50	111.50
31	lC	72	PRO	CA-N-CD	-8.57	99.50	111.50
31	fH	72	PRO	CA-N-CD	-8.57	99.50	111.50
32	k2	145	PRO	CA-N-CD	-8.57	99.51	111.50
31	h3	72	PRO	CA-N-CD	-8.57	99.51	111.50
31	dJ	72	PRO	CA-N-CD	-8.57	99.50	111.50
31	l5	72	PRO	CA-N-CD	-8.57	99.51	111.50
31	h7	72	PRO	CA-N-CD	-8.57	99.51	111.50
31	dA	72	PRO	CA-N-CD	-8.57	99.51	111.50
31	dC	72	PRO	CA-N-CD	-8.57	99.51	111.50
31	fJ	72	PRO	CA-N-CD	-8.57	99.50	111.50
31	d2	72	PRO	CA-N-CD	-8.56	99.51	111.50
32	k9	150	PRO	CA-N-CD	-8.56	99.51	111.50
31	f8	72	PRO	CA-N-CD	-8.56	99.52	111.50
32	k8	150	PRO	CA-N-CD	-8.56	99.52	111.50
31	lH	72	PRO	CA-N-CD	-8.56	99.52	111.50
31	jI	72	PRO	CA-N-CD	-8.56	99.52	111.50
31	lI	72	PRO	CA-N-CD	-8.56	99.52	111.50
31	d3	72	PRO	CA-N-CD	-8.56	99.52	111.50
31	jC	72	PRO	CA-N-CD	-8.56	99.52	111.50
31	jJ	72	PRO	CA-N-CD	-8.56	99.52	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	j7	72	PRO	CA-N-CD	-8.56	99.52	111.50
19	qE	123	ASP	CB-CG-OD1	8.56	126.00	118.30
31	f3	72	PRO	CA-N-CD	-8.55	99.52	111.50
31	j3	72	PRO	CA-N-CD	-8.56	99.52	111.50
31	d5	72	PRO	CA-N-CD	-8.55	99.52	111.50
31	f2	72	PRO	CA-N-CD	-8.55	99.53	111.50
31	l2	72	PRO	CA-N-CD	-8.55	99.53	111.50
31	j6	72	PRO	CA-N-CD	-8.55	99.52	111.50
31	l7	72	PRO	CA-N-CD	-8.55	99.52	111.50
31	d8	72	PRO	CA-N-CD	-8.55	99.53	111.50
31	jH	72	PRO	CA-N-CD	-8.55	99.52	111.50
31	j8	72	PRO	CA-N-CD	-8.55	99.53	111.50
32	k6	145	PRO	CA-N-CD	-8.55	99.53	111.50
31	l6	72	PRO	CA-N-CD	-8.55	99.53	111.50
32	k3	145	PRO	CA-N-CD	-8.54	99.54	111.50
31	j5	72	PRO	CA-N-CD	-8.54	99.54	111.50
31	j9	72	PRO	CA-N-CD	-8.54	99.54	111.50
31	lA	72	PRO	CA-N-CD	-8.54	99.54	111.50
32	kJ	150	PRO	CA-N-CD	-8.54	99.54	111.50
31	j2	72	PRO	CA-N-CD	-8.54	99.54	111.50
31	lJ	72	PRO	CA-N-CD	-8.54	99.54	111.50
32	kA	145	PRO	CA-N-CD	-8.54	99.55	111.50
32	k5	145	PRO	CA-N-CD	-8.54	99.55	111.50
32	k7	145	PRO	CA-N-CD	-8.54	99.55	111.50
32	kC	150	PRO	CA-N-CD	-8.54	99.55	111.50
31	jA	72	PRO	CA-N-CD	-8.53	99.55	111.50
32	kH	145	PRO	CA-N-CD	-8.53	99.56	111.50
32	cJ	150	PRO	CA-N-CD	-8.53	99.56	111.50
32	k2	150	PRO	CA-N-CD	-8.53	99.56	111.50
32	k3	150	PRO	CA-N-CD	-8.53	99.56	111.50
32	k5	150	PRO	CA-N-CD	-8.53	99.56	111.50
32	kI	145	PRO	CA-N-CD	-8.53	99.56	111.50
32	kJ	145	PRO	CA-N-CD	-8.53	99.56	111.50
32	k8	145	PRO	CA-N-CD	-8.52	99.57	111.50
32	c3	150	PRO	CA-N-CD	-8.52	99.57	111.50
32	k9	145	PRO	CA-N-CD	-8.52	99.57	111.50
32	kH	150	PRO	CA-N-CD	-8.52	99.57	111.50
1	B6	81	ARG	NE-CZ-NH1	8.52	124.56	120.30
32	c5	150	PRO	CA-N-CD	-8.52	99.58	111.50
1	B8	163	ARG	NE-CZ-NH1	8.52	124.56	120.30
32	kA	150	PRO	CA-N-CD	-8.52	99.57	111.50
32	cC	150	PRO	CA-N-CD	-8.52	99.58	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	cI	150	PRO	CA-N-CD	-8.51	99.58	111.50
32	kC	145	PRO	CA-N-CD	-8.51	99.59	111.50
32	c7	150	PRO	CA-N-CD	-8.51	99.59	111.50
32	c8	150	PRO	CA-N-CD	-8.51	99.59	111.50
1	BJ	81	ARG	NE-CZ-NH2	-8.50	116.05	120.30
32	k7	150	PRO	CA-N-CD	-8.50	99.60	111.50
32	c9	150	PRO	CA-N-CD	-8.50	99.60	111.50
1	BJ	163	ARG	NE-CZ-NH1	8.50	124.55	120.30
1	BH	163	ARG	NE-CZ-NH1	8.49	124.55	120.30
1	B5	163	ARG	NE-CZ-NH1	8.49	124.55	120.30
32	cH	150	PRO	CA-N-CD	-8.49	99.61	111.50
32	cA	150	PRO	CA-N-CD	-8.49	99.61	111.50
32	kI	150	PRO	CA-N-CD	-8.49	99.61	111.50
1	BC	81	ARG	NE-CZ-NH2	-8.49	116.06	120.30
32	k6	150	PRO	CA-N-CD	-8.48	99.62	111.50
32	c2	150	PRO	CA-N-CD	-8.48	99.62	111.50
32	c6	150	PRO	CA-N-CD	-8.47	99.64	111.50
1	BA	163	ARG	NE-CZ-NH1	8.47	124.53	120.30
1	B9	81	ARG	NE-CZ-NH2	-8.47	116.07	120.30
19	QD	123	ASP	CB-CG-OD1	8.44	125.90	118.30
19	Q1	123	ASP	CB-CG-OD1	8.45	125.90	118.30
19	QE	123	ASP	CB-CG-OD1	8.44	125.90	118.30
1	B5	81	ARG	NE-CZ-NH2	-8.43	116.08	120.30
1	BH	81	ARG	NE-CZ-NH2	-8.43	116.08	120.30
1	B8	81	ARG	NE-CZ-NH2	-8.42	116.09	120.30
1	B7	163	ARG	NE-CZ-NH1	8.40	124.50	120.30
1	BI	163	ARG	NE-CZ-NH1	8.38	124.49	120.30
1	B3	81	ARG	NE-CZ-NH2	-8.38	116.11	120.30
1	BA	81	ARG	NE-CZ-NH2	-8.37	116.12	120.30
6	AD	174	LEU	CA-CB-CG	8.34	134.47	115.30
6	AE	174	LEU	CA-CB-CG	8.34	134.47	115.30
1	B3	163	ARG	NE-CZ-NH1	8.33	124.47	120.30
8	CD	353	LEU	CA-CB-CG	8.33	134.46	115.30
8	CE	353	LEU	CA-CB-CG	8.33	134.45	115.30
6	A1	174	LEU	CA-CB-CG	8.33	134.45	115.30
8	C1	353	LEU	CA-CB-CG	8.32	134.44	115.30
1	BC	163	ARG	NE-CZ-NH1	8.32	124.46	120.30
1	B2	163	ARG	NE-CZ-NH1	8.30	124.45	120.30
1	BI	81	ARG	NE-CZ-NH2	-8.30	116.15	120.30
1	B2	81	ARG	NE-CZ-NH2	-8.23	116.19	120.30
1	B9	163	ARG	NE-CZ-NH1	8.22	124.41	120.30
1	B6	163	ARG	NE-CZ-NH1	8.21	124.41	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B6	81	ARG	NE-CZ-NH2	-8.17	116.21	120.30
7	BD	341	LEU	CA-CB-CG	8.15	134.05	115.30
32	m8	144	ASP	C-N-CD	8.15	145.51	128.40
7	B1	341	LEU	CA-CB-CG	8.15	134.03	115.30
32	m9	144	ASP	C-N-CD	8.14	145.50	128.40
32	mA	144	ASP	C-N-CD	8.14	145.49	128.40
7	bE	341	LEU	CA-CB-CG	8.14	134.02	115.30
7	BE	341	LEU	CA-CB-CG	8.14	134.01	115.30
32	mC	144	ASP	C-N-CD	8.13	145.48	128.40
32	m2	144	ASP	C-N-CD	8.13	145.47	128.40
32	m6	144	ASP	C-N-CD	8.13	145.47	128.40
32	mH	144	ASP	C-N-CD	8.13	145.48	128.40
32	iI	150	PRO	CA-N-CD	-8.13	100.12	111.50
32	m5	144	ASP	C-N-CD	8.13	145.47	128.40
7	bD	341	LEU	CA-CB-CG	8.13	133.99	115.30
7	b1	341	LEU	CA-CB-CG	8.12	133.98	115.30
32	mJ	144	ASP	C-N-CD	8.12	145.45	128.40
32	i3	150	PRO	CA-N-CD	-8.12	100.14	111.50
32	m3	144	ASP	C-N-CD	8.11	145.43	128.40
32	m7	144	ASP	C-N-CD	8.11	145.43	128.40
32	mI	144	ASP	C-N-CD	8.11	145.43	128.40
32	i2	150	PRO	CA-N-CD	-8.11	100.15	111.50
32	iC	150	PRO	CA-N-CD	-8.10	100.17	111.50
32	iJ	150	PRO	CA-N-CD	-8.10	100.17	111.50
32	iA	150	PRO	CA-N-CD	-8.09	100.18	111.50
32	iH	150	PRO	CA-N-CD	-8.09	100.18	111.50
32	i8	150	PRO	CA-N-CD	-8.09	100.18	111.50
32	i6	150	PRO	CA-N-CD	-8.08	100.19	111.50
32	i5	150	PRO	CA-N-CD	-8.08	100.19	111.50
32	i9	150	PRO	CA-N-CD	-8.07	100.20	111.50
32	i7	150	PRO	CA-N-CD	-8.07	100.21	111.50
2	C4	849	LYS	CB-CG-CD	7.94	132.24	111.60
2	BB	849	LYS	CB-CG-CD	7.93	132.23	111.60
2	CB	849	LYS	CB-CG-CD	7.93	132.22	111.60
2	B4	849	LYS	CB-CG-CD	7.93	132.22	111.60
18	o1	83	GLU	CA-CB-CG	7.91	130.81	113.40
18	O1	83	GLU	CA-CB-CG	7.91	130.79	113.40
18	oE	83	GLU	CA-CB-CG	7.90	130.78	113.40
18	oD	83	GLU	CA-CB-CG	7.90	130.77	113.40
18	OD	83	GLU	CA-CB-CG	7.89	130.76	113.40
18	OE	83	GLU	CA-CB-CG	7.88	130.73	113.40
4	P4	61	LEU	CA-CB-CG	7.71	133.03	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	PB	61	LEU	CA-CB-CG	7.71	133.03	115.30
9	d1	193	LEU	CA-CB-CG	7.58	132.74	115.30
7	bE	61	PHE	CB-CG-CD2	-7.57	115.50	120.80
9	dD	193	LEU	CA-CB-CG	7.56	132.69	115.30
9	dE	193	LEU	CA-CB-CG	7.55	132.66	115.30
9	D1	193	LEU	CA-CB-CG	7.54	132.64	115.30
1	B2	117	ARG	NE-CZ-NH1	7.53	124.06	120.30
9	DD	193	LEU	CA-CB-CG	7.52	132.60	115.30
9	DE	193	LEU	CA-CB-CG	7.52	132.59	115.30
7	B1	61	PHE	CB-CG-CD2	-7.51	115.54	120.80
7	bD	61	PHE	CB-CG-CD2	-7.51	115.54	120.80
7	b1	61	PHE	CB-CG-CD2	-7.50	115.55	120.80
1	BI	117	ARG	NE-CZ-NH1	7.48	124.04	120.30
24	vD	27	GLU	CA-CB-CG	7.47	129.84	113.40
7	BD	61	PHE	CB-CG-CD2	-7.47	115.57	120.80
24	v1	27	GLU	CA-CB-CG	7.47	129.83	113.40
24	vE	27	GLU	CA-CB-CG	7.47	129.82	113.40
7	BE	61	PHE	CB-CG-CD2	-7.46	115.58	120.80
24	VE	27	GLU	CA-CB-CG	7.44	129.77	113.40
1	B8	117	ARG	NE-CZ-NH1	7.44	124.02	120.30
24	V1	27	GLU	CA-CB-CG	7.43	129.75	113.40
24	VD	27	GLU	CA-CB-CG	7.42	129.73	113.40
1	BH	117	ARG	NE-CZ-NH1	7.38	123.99	120.30
1	BJ	117	ARG	NE-CZ-NH1	7.35	123.98	120.30
1	B5	117	ARG	NE-CZ-NH1	7.35	123.97	120.30
1	B7	117	ARG	NE-CZ-NH1	7.33	123.97	120.30
8	CE	241	THR	C-N-CA	7.31	139.97	121.70
8	CD	241	THR	C-N-CA	7.30	139.96	121.70
8	C1	241	THR	C-N-CA	7.30	139.96	121.70
1	B3	117	ARG	NE-CZ-NH1	7.30	123.95	120.30
1	BA	117	ARG	NE-CZ-NH1	7.30	123.95	120.30
1	B6	117	ARG	NE-CZ-NH1	7.28	123.94	120.30
1	BC	117	ARG	NE-CZ-NH1	7.28	123.94	120.30
1	B9	117	ARG	NE-CZ-NH1	7.28	123.94	120.30
32	c6	39	ASP	N-CA-C	-7.23	91.49	111.00
32	c5	39	ASP	N-CA-C	-7.22	91.49	111.00
32	cI	39	ASP	N-CA-C	-7.22	91.50	111.00
32	c8	39	ASP	N-CA-C	-7.22	91.51	111.00
32	c7	39	ASP	N-CA-C	-7.22	91.52	111.00
32	c9	39	ASP	N-CA-C	-7.22	91.52	111.00
32	cH	39	ASP	N-CA-C	-7.21	91.52	111.00
32	cC	39	ASP	N-CA-C	-7.21	91.53	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	c3	39	ASP	N-CA-C	-7.21	91.54	111.00
32	cJ	39	ASP	N-CA-C	-7.21	91.54	111.00
32	c2	39	ASP	N-CA-C	-7.20	91.55	111.00
32	cA	39	ASP	N-CA-C	-7.20	91.56	111.00
5	NK	15	ARG	CA-CB-CG	7.19	129.22	113.40
5	NF	15	ARG	CA-CB-CG	7.18	129.19	113.40
7	bE	61	PHE	CB-CG-CD1	7.17	125.82	120.80
7	B1	61	PHE	CB-CG-CD1	7.16	125.81	120.80
8	cE	254	SER	C-N-CA	7.15	137.32	122.30
2	CB	769	ASP	CB-CG-OD2	-7.14	111.88	118.30
2	B4	769	ASP	CB-CG-OD2	-7.13	111.88	118.30
4	Y4	109	LEU	CA-CB-CG	7.12	131.69	115.30
4	YB	109	LEU	CA-CB-CG	7.12	131.68	115.30
7	bD	61	PHE	CB-CG-CD1	7.12	125.78	120.80
7	BD	61	PHE	CB-CG-CD1	7.11	125.77	120.80
2	BB	769	ASP	CB-CG-OD2	-7.09	111.91	118.30
2	C4	769	ASP	CB-CG-OD2	-7.09	111.92	118.30
13	IE	30	ARG	N-CA-C	-7.09	91.85	111.00
7	b1	61	PHE	CB-CG-CD1	7.09	125.76	120.80
7	BE	61	PHE	CB-CG-CD1	7.09	125.76	120.80
13	ID	30	ARG	N-CA-C	-7.08	91.88	111.00
13	I1	30	ARG	N-CA-C	-7.08	91.88	111.00
7	B1	486	LEU	CA-CB-CG	7.08	131.59	115.30
7	BD	486	LEU	CA-CB-CG	7.08	131.58	115.30
7	BE	486	LEU	CA-CB-CG	7.08	131.58	115.30
7	b1	486	LEU	CA-CB-CG	7.08	131.58	115.30
7	bD	486	LEU	CA-CB-CG	7.08	131.57	115.30
7	bE	486	LEU	CA-CB-CG	7.07	131.56	115.30
1	B5	212	GLN	C-N-CD	-7.07	105.05	120.60
8	c1	134	PHE	CB-CA-C	7.06	124.52	110.40
1	BJ	212	GLN	C-N-CD	-7.05	105.08	120.60
1	BH	212	GLN	C-N-CD	-7.05	105.09	120.60
1	B8	212	GLN	C-N-CD	-7.04	105.10	120.60
9	DE	102	THR	N-CA-C	-6.98	92.16	111.00
9	DD	102	THR	N-CA-C	-6.97	92.19	111.00
9	D1	102	THR	N-CA-C	-6.96	92.20	111.00
2	CB	700	LYS	CD-CE-NZ	6.68	127.07	111.70
2	C4	700	LYS	CD-CE-NZ	6.68	127.06	111.70
2	BB	700	LYS	CD-CE-NZ	6.67	127.05	111.70
2	B4	700	LYS	CD-CE-NZ	6.67	127.03	111.70
32	i5	144	ASP	C-N-CD	6.63	142.32	128.40
32	iC	144	ASP	C-N-CD	6.61	142.29	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	iJ	144	ASP	C-N-CD	6.61	142.28	128.40
32	i7	144	ASP	C-N-CD	6.61	142.27	128.40
32	iA	144	ASP	C-N-CD	6.61	142.27	128.40
32	i3	144	ASP	C-N-CD	6.60	142.27	128.40
32	iH	144	ASP	C-N-CD	6.60	142.27	128.40
32	iI	144	ASP	C-N-CD	6.60	142.27	128.40
32	i9	144	ASP	C-N-CD	6.60	142.26	128.40
32	i8	144	ASP	C-N-CD	6.60	142.25	128.40
13	IE	31	ASN	N-CA-C	-6.59	93.21	111.00
13	ID	31	ASN	N-CA-C	-6.59	93.22	111.00
32	i2	144	ASP	C-N-CD	6.59	142.23	128.40
32	i6	144	ASP	C-N-CD	6.58	142.22	128.40
3	4L	141	LEU	CA-CB-CG	6.55	130.36	115.30
3	4G	141	LEU	CA-CB-CG	6.54	130.35	115.30
1	BJ	194	PHE	N-CA-C	6.54	128.65	111.00
1	BH	194	PHE	N-CA-C	6.53	128.63	111.00
1	B8	194	PHE	N-CA-C	6.53	128.62	111.00
1	B5	194	PHE	N-CA-C	6.52	128.61	111.00
7	BD	61	PHE	CZ-CE2-CD2	-6.52	112.28	120.10
7	BE	61	PHE	CZ-CE2-CD2	-6.52	112.28	120.10
7	bE	61	PHE	CZ-CE2-CD2	-6.51	112.29	120.10
2	BB	138	GLY	N-CA-C	-6.50	96.84	113.10
12	HD	7	LEU	CA-CB-CG	6.50	130.26	115.30
12	HE	7	LEU	CA-CB-CG	6.50	130.25	115.30
7	b1	61	PHE	CZ-CE2-CD2	-6.50	112.30	120.10
12	H1	7	LEU	CA-CB-CG	6.49	130.23	115.30
7	bD	61	PHE	CZ-CE2-CD2	-6.49	112.31	120.10
7	B1	61	PHE	CZ-CE2-CD2	-6.48	112.32	120.10
28	EF	117	PHE	N-CA-C	6.48	128.49	111.00
28	EK	117	PHE	N-CA-C	6.47	128.48	111.00
8	cD	256	GLU	C-N-CA	-6.46	105.56	121.70
16	lE	9	LYS	CA-CB-CG	6.43	127.55	113.40
16	lD	9	LYS	CA-CB-CG	6.43	127.55	113.40
16	l1	9	LYS	CA-CB-CG	6.43	127.54	113.40
5	8G	58	GLY	C-N-CA	6.43	137.77	121.70
16	LD	9	LYS	CA-CB-CG	6.42	127.52	113.40
16	LE	9	LYS	CA-CB-CG	6.42	127.52	113.40
5	8L	58	GLY	C-N-CA	6.42	137.74	121.70
28	BG	134	GLY	N-CA-C	6.40	129.11	113.10
16	L1	9	LYS	CA-CB-CG	6.40	127.49	113.40
28	BL	134	GLY	N-CA-C	6.39	129.09	113.10
3	OB	156	LEU	CA-CB-CG	6.39	130.00	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	DE	199	MET	CG-SD-CE	6.39	110.42	100.20
9	dE	199	MET	CG-SD-CE	6.38	110.41	100.20
3	O4	156	LEU	CA-CB-CG	6.38	129.97	115.30
9	d1	199	MET	CG-SD-CE	6.37	110.39	100.20
9	dD	199	MET	CG-SD-CE	6.37	110.39	100.20
1	B9	217	ASP	C-N-CD	-6.37	106.59	120.60
4	aF	74	THR	CA-CB-CG2	6.37	121.31	112.40
32	kI	144	ASP	C-N-CD	6.37	141.77	128.40
9	DD	199	MET	CG-SD-CE	6.36	110.38	100.20
32	kA	144	ASP	C-N-CD	6.36	141.76	128.40
32	kJ	144	ASP	C-N-CD	6.36	141.76	128.40
32	k2	144	ASP	C-N-CD	6.36	141.75	128.40
32	k6	144	ASP	C-N-CD	6.36	141.75	128.40
1	B6	217	ASP	C-N-CD	-6.35	106.62	120.60
32	k7	144	ASP	C-N-CD	6.35	141.74	128.40
9	D1	199	MET	CG-SD-CE	6.35	110.36	100.20
32	kC	144	ASP	C-N-CD	6.35	141.74	128.40
32	kH	144	ASP	C-N-CD	6.35	141.74	128.40
4	aK	74	THR	CA-CB-CG2	6.35	121.29	112.40
32	k8	144	ASP	C-N-CD	6.35	141.73	128.40
32	k9	144	ASP	C-N-CD	6.34	141.72	128.40
32	k5	144	ASP	C-N-CD	6.34	141.72	128.40
32	k3	144	ASP	C-N-CD	6.34	141.72	128.40
4	Y4	19	LEU	CA-CB-CG	6.34	129.88	115.30
1	BI	217	ASP	C-N-CD	-6.34	106.66	120.60
1	B2	217	ASP	C-N-CD	-6.33	106.67	120.60
4	YB	19	LEU	CA-CB-CG	6.33	129.85	115.30
8	cE	254	SER	CA-C-N	-6.33	103.55	116.20
9	d1	111	TRP	N-CA-C	-6.32	93.94	111.00
18	o1	101	ARG	CG-CD-NE	6.31	125.05	111.80
18	OD	101	ARG	CG-CD-NE	6.30	125.03	111.80
2	B4	138	GLY	N-CA-C	-6.30	97.35	113.10
9	dD	111	TRP	N-CA-C	-6.30	93.98	111.00
18	oE	101	ARG	CG-CD-NE	6.30	125.03	111.80
18	oD	101	ARG	CG-CD-NE	6.30	125.02	111.80
18	OE	101	ARG	CG-CD-NE	6.29	125.00	111.80
4	t4	77	ARG	CD-NE-CZ	-6.29	114.80	123.60
9	dE	111	TRP	N-CA-C	-6.28	94.04	111.00
18	O1	101	ARG	CG-CD-NE	6.28	124.98	111.80
1	B9	225	ALA	N-CA-C	6.27	127.92	111.00
1	BI	225	ALA	N-CA-C	6.26	127.89	111.00
1	B6	225	ALA	N-CA-C	6.26	127.89	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	tB	77	ARG	CD-NE-CZ	-6.25	114.84	123.60
1	B2	225	ALA	N-CA-C	6.24	127.85	111.00
2	C4	849	LYS	CA-CB-CG	6.24	127.13	113.40
2	CB	849	LYS	CA-CB-CG	6.23	127.12	113.40
28	EF	134	GLY	N-CA-C	6.23	128.68	113.10
28	EK	134	GLY	N-CA-C	6.22	128.65	113.10
1	B5	163	ARG	NE-CZ-NH2	-6.22	117.19	120.30
2	BB	849	LYS	CA-CB-CG	6.22	127.08	113.40
1	BH	163	ARG	NE-CZ-NH2	-6.21	117.19	120.30
2	B4	849	LYS	CA-CB-CG	6.21	127.06	113.40
1	BJ	163	ARG	NE-CZ-NH2	-6.21	117.20	120.30
30	VL	24	LYS	CB-CG-CD	6.20	127.73	111.60
1	B8	163	ARG	NE-CZ-NH2	-6.20	117.20	120.30
30	VG	24	LYS	CB-CG-CD	6.20	127.71	111.60
30	mK	24	LYS	CB-CG-CD	6.20	127.71	111.60
19	Q1	86	MET	CA-CB-CG	6.19	123.83	113.30
30	mF	24	LYS	CB-CG-CD	6.19	127.70	111.60
6	aE	133	LEU	CB-CG-CD1	-6.18	100.49	111.00
3	JK	84	ASP	CB-CG-OD1	-6.18	112.74	118.30
6	aD	133	LEU	CB-CG-CD1	-6.17	100.50	111.00
6	a1	133	LEU	CB-CG-CD1	-6.17	100.51	111.00
19	QD	86	MET	CA-CB-CG	6.17	123.78	113.30
19	QE	86	MET	CA-CB-CG	6.17	123.78	113.30
19	qD	86	MET	CA-CB-CG	6.15	123.76	113.30
19	qE	86	MET	CA-CB-CG	6.15	123.75	113.30
4	nF	74	THR	C-N-CA	6.15	137.07	121.70
1	BI	163	ARG	NE-CZ-NH2	-6.14	117.23	120.30
8	cD	251	PHE	CB-CA-C	-6.14	98.11	110.40
1	B2	163	ARG	NE-CZ-NH2	-6.14	117.23	120.30
3	JF	84	ASP	CB-CG-OD1	-6.13	112.78	118.30
19	q1	86	MET	CA-CB-CG	6.13	123.73	113.30
1	BJ	199	TRP	N-CA-C	6.13	127.55	111.00
1	B5	199	TRP	N-CA-C	6.13	127.56	111.00
1	B8	199	TRP	N-CA-C	6.13	127.56	111.00
1	BH	199	TRP	N-CA-C	6.13	127.55	111.00
4	nK	74	THR	C-N-CA	6.13	137.02	121.70
3	IL	29	PHE	C-N-CA	-6.10	106.44	121.70
12	hE	7	LEU	CA-CB-CG	6.10	129.33	115.30
12	h1	7	LEU	CA-CB-CG	6.10	129.33	115.30
1	B3	163	ARG	NE-CZ-NH2	-6.09	117.25	120.30
12	hD	7	LEU	CA-CB-CG	6.09	129.30	115.30
23	u1	40	LYS	CB-CG-CD	6.09	127.42	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	uE	40	LYS	CB-CG-CD	6.09	127.42	111.60
23	uD	40	LYS	CB-CG-CD	6.08	127.42	111.60
23	U1	40	LYS	CB-CG-CD	6.08	127.40	111.60
23	UE	40	LYS	CB-CG-CD	6.07	127.38	111.60
23	UD	40	LYS	CB-CG-CD	6.06	127.37	111.60
23	UE	38	LEU	CB-CG-CD2	6.06	121.30	111.00
23	UD	38	LEU	CB-CG-CD2	6.06	121.30	111.00
23	U1	38	LEU	CB-CG-CD2	6.05	121.29	111.00
18	o1	138	LEU	CA-CB-CG	6.05	129.23	115.30
18	oE	138	LEU	CA-CB-CG	6.05	129.22	115.30
18	oD	138	LEU	CA-CB-CG	6.05	129.21	115.30
23	uD	38	LEU	CB-CG-CD2	6.05	121.28	111.00
23	u1	38	LEU	CB-CG-CD2	6.05	121.28	111.00
1	B7	163	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	BA	163	ARG	NE-CZ-NH2	-6.04	117.28	120.30
18	OE	138	LEU	CA-CB-CG	6.04	129.19	115.30
18	OD	138	LEU	CA-CB-CG	6.04	129.19	115.30
18	O1	138	LEU	CA-CB-CG	6.04	129.19	115.30
23	uE	38	LEU	CB-CG-CD2	6.04	121.27	111.00
1	B9	163	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	BC	163	ARG	NE-CZ-NH2	-6.02	117.29	120.30
5	3K	55	LEU	CA-CB-CG	6.00	129.11	115.30
5	3F	55	LEU	CA-CB-CG	5.99	129.07	115.30
5	2G	22	LEU	CA-CB-CG	5.96	129.01	115.30
5	2L	22	LEU	CA-CB-CG	5.95	128.98	115.30
16	LE	2	ASP	CB-CG-OD1	5.95	123.65	118.30
16	l1	2	ASP	CB-CG-OD1	5.95	123.65	118.30
28	BG	120	ASP	N-CA-C	5.94	127.05	111.00
16	LD	2	ASP	CB-CG-OD1	5.94	123.65	118.30
28	BL	120	ASP	N-CA-C	5.94	127.04	111.00
7	B1	94	GLU	N-CA-C	-5.93	94.98	111.00
16	L1	2	ASP	CB-CG-OD1	5.91	123.62	118.30
3	XF	82	LEU	C-N-CA	-5.90	106.96	121.70
1	B6	163	ARG	NE-CZ-NH2	-5.89	117.35	120.30
16	lD	2	ASP	CB-CG-OD1	5.88	123.59	118.30
4	KF	105	ASP	CB-CG-OD1	5.87	123.58	118.30
4	KK	105	ASP	CB-CG-OD1	5.85	123.57	118.30
3	GG	24	ASP	CB-CG-OD1	5.85	123.56	118.30
3	GL	24	ASP	CB-CG-OD1	5.85	123.56	118.30
16	lE	2	ASP	CB-CG-OD1	5.85	123.56	118.30
4	nF	19	LEU	CA-CB-CG	-5.82	101.92	115.30
4	nK	19	LEU	CA-CB-CG	-5.80	101.96	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	cE	266	LEU	C-N-CA	-5.79	107.23	121.70
4	MF	112	LEU	CB-CG-CD1	-5.77	101.20	111.00
24	vE	68	LEU	CA-CB-CG	5.77	128.56	115.30
24	VE	68	LEU	CA-CB-CG	5.76	128.56	115.30
24	VD	68	LEU	CA-CB-CG	5.76	128.55	115.30
24	V1	68	LEU	CA-CB-CG	5.76	128.55	115.30
24	vD	68	LEU	CA-CB-CG	5.76	128.55	115.30
4	MK	112	LEU	CB-CG-CD1	-5.76	101.21	111.00
7	bD	46	ASP	CB-CG-OD1	5.76	123.48	118.30
7	bE	46	ASP	CB-CG-OD1	5.75	123.48	118.30
4	7G	112	LEU	CB-CG-CD1	-5.74	101.24	111.00
24	v1	68	LEU	CA-CB-CG	5.74	128.50	115.30
7	b1	46	ASP	CB-CG-OD1	5.74	123.46	118.30
19	q1	85	GLU	CA-CB-CG	5.74	126.02	113.40
15	KE	22	ASP	CB-CG-OD1	5.72	123.45	118.30
19	qE	85	GLU	CA-CB-CG	5.72	125.99	113.40
4	7L	112	LEU	CB-CG-CD1	-5.72	101.28	111.00
19	Q1	85	GLU	CA-CB-CG	5.72	125.98	113.40
19	qD	85	GLU	CA-CB-CG	5.71	125.97	113.40
19	QD	85	GLU	CA-CB-CG	5.71	125.96	113.40
7	BE	46	ASP	CB-CG-OD1	5.71	123.44	118.30
15	K1	22	ASP	CB-CG-OD1	5.71	123.44	118.30
15	KD	22	ASP	CB-CG-OD1	5.70	123.43	118.30
7	BD	46	ASP	CB-CG-OD1	5.70	123.43	118.30
19	QE	85	GLU	CA-CB-CG	5.69	125.93	113.40
7	B1	46	ASP	CB-CG-OD1	5.69	123.42	118.30
3	s4	64	ASP	CB-CG-OD1	5.67	123.40	118.30
15	k1	22	ASP	CB-CG-OD1	5.67	123.40	118.30
28	BL	138	ASN	N-CA-C	5.66	126.28	111.00
28	BG	138	ASN	N-CA-C	5.66	126.28	111.00
9	dE	107	LEU	CB-CG-CD2	-5.65	101.39	111.00
15	kD	22	ASP	CB-CG-OD1	5.64	123.37	118.30
9	dD	107	LEU	CB-CG-CD2	-5.63	101.43	111.00
15	kE	22	ASP	CB-CG-OD1	5.63	123.37	118.30
9	d1	107	LEU	CB-CG-CD2	-5.62	101.44	111.00
9	DE	105	CYS	CA-CB-SG	-5.62	103.88	114.00
3	OB	51	ILE	CG1-CB-CG2	-5.62	99.04	111.40
3	O4	51	ILE	CG1-CB-CG2	-5.62	99.04	111.40
7	B1	74	SER	N-CA-CB	-5.62	102.07	110.50
26	Y1	77	ILE	CB-CA-C	5.62	122.83	111.60
26	YE	77	ILE	CB-CA-C	5.61	122.82	111.60
7	BD	74	SER	N-CA-CB	-5.61	102.09	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	sB	64	ASP	CB-CG-OD1	5.61	123.35	118.30
26	YD	77	ILE	CB-CA-C	5.60	122.81	111.60
9	DD	105	CYS	CA-CB-SG	-5.60	103.92	114.00
9	D1	105	CYS	CA-CB-SG	-5.60	103.92	114.00
7	BE	74	SER	N-CA-CB	-5.59	102.11	110.50
1	B7	113	ARG	NE-CZ-NH1	5.59	123.10	120.30
26	yD	77	ILE	CB-CA-C	5.59	122.77	111.60
30	VL	126	MET	CG-SD-CE	5.58	109.12	100.20
7	bE	483	GLU	CA-CB-CG	5.57	125.66	113.40
26	yE	77	ILE	CB-CA-C	5.57	122.74	111.60
26	y1	77	ILE	CB-CA-C	5.56	122.73	111.60
30	VG	126	MET	CG-SD-CE	5.56	109.09	100.20
30	mK	126	MET	CG-SD-CE	5.56	109.09	100.20
7	b1	483	GLU	CA-CB-CG	5.55	125.61	113.40
7	bD	483	GLU	CA-CB-CG	5.55	125.61	113.40
30	mF	126	MET	CG-SD-CE	5.55	109.08	100.20
28	BG	132	ARG	C-N-CD	-5.54	108.40	120.60
7	BE	483	GLU	CA-CB-CG	5.54	125.59	113.40
7	BD	483	GLU	CA-CB-CG	5.54	125.58	113.40
8	CE	215	ASP	CB-CG-OD1	5.53	123.28	118.30
7	B1	483	GLU	CA-CB-CG	5.53	125.57	113.40
1	B3	211	LYS	C-N-CA	5.53	135.53	121.70
28	BL	132	ARG	C-N-CD	-5.53	108.44	120.60
1	BA	211	LYS	C-N-CA	5.52	135.50	121.70
1	B7	211	LYS	C-N-CA	5.52	135.49	121.70
1	BC	211	LYS	C-N-CA	5.50	135.46	121.70
6	a1	83	VAL	CA-CB-CG1	5.50	119.15	110.90
8	C1	215	ASP	CB-CG-OD1	5.50	123.25	118.30
18	OE	192	LEU	CB-CG-CD1	-5.49	101.66	111.00
3	u4	23	LEU	CA-CB-CG	5.49	127.93	115.30
8	CD	215	ASP	CB-CG-OD1	5.49	123.24	118.30
3	uB	23	LEU	CA-CB-CG	5.49	127.92	115.30
6	aD	83	VAL	CA-CB-CG1	5.49	119.13	110.90
18	o1	192	LEU	CB-CG-CD1	-5.49	101.67	111.00
18	OD	192	LEU	CB-CG-CD1	-5.48	101.68	111.00
4	IK	86	ASP	CB-CG-OD1	5.48	123.24	118.30
18	oD	192	LEU	CB-CG-CD1	-5.48	101.68	111.00
6	aE	83	VAL	CA-CB-CG1	5.48	119.12	110.90
1	BA	113	ARG	NE-CZ-NH1	5.47	123.04	120.30
18	O1	192	LEU	CB-CG-CD1	-5.47	101.69	111.00
4	aF	36	LEU	CA-CB-CG	5.47	127.88	115.30
4	aK	36	LEU	CA-CB-CG	5.47	127.88	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	oE	192	LEU	CB-CG-CD1	-5.46	101.71	111.00
32	iJ	154	SER	C-N-CA	-5.46	108.04	121.70
4	IF	86	ASP	CB-CG-OD1	5.46	123.21	118.30
32	i3	154	SER	C-N-CA	-5.46	108.06	121.70
32	i9	154	SER	C-N-CA	-5.46	108.05	121.70
32	iI	154	SER	C-N-CA	-5.46	108.06	121.70
8	C1	73	LEU	CA-CB-CG	5.46	127.85	115.30
32	i6	154	SER	C-N-CA	-5.46	108.06	121.70
32	iH	154	SER	C-N-CA	-5.46	108.06	121.70
32	iA	154	SER	C-N-CA	-5.46	108.06	121.70
32	i8	154	SER	C-N-CA	-5.45	108.07	121.70
32	i2	154	SER	C-N-CA	-5.45	108.07	121.70
32	iC	154	SER	C-N-CA	-5.45	108.08	121.70
1	BC	113	ARG	NE-CZ-NH1	5.45	123.02	120.30
8	CD	73	LEU	CA-CB-CG	5.45	127.83	115.30
32	i7	154	SER	C-N-CA	-5.45	108.09	121.70
32	i5	154	SER	C-N-CA	-5.44	108.09	121.70
8	CE	73	LEU	CA-CB-CG	5.44	127.81	115.30
7	b1	68	ARG	NE-CZ-NH2	5.42	123.01	120.30
1	B3	113	ARG	NE-CZ-NH1	5.42	123.01	120.30
2	B4	127	GLY	N-CA-C	5.41	126.64	113.10
3	6G	80	THR	CA-CB-OG1	-5.41	97.65	109.00
1	B2	113	ARG	NE-CZ-NH1	5.40	123.00	120.30
31	l3	77	ASP	CB-CG-OD2	5.40	123.16	118.30
1	B6	113	ARG	NE-CZ-NH1	5.39	123.00	120.30
3	6L	80	THR	CA-CB-OG1	-5.39	97.68	109.00
4	JL	13	ASP	CB-CG-OD1	5.38	123.14	118.30
4	JG	13	ASP	CB-CG-OD1	5.38	123.14	118.30
1	BI	113	ARG	NE-CZ-NH1	5.38	122.99	120.30
2	B4	207	LEU	CA-CB-CG	5.38	127.67	115.30
2	BB	207	LEU	CA-CB-CG	5.38	127.67	115.30
31	l3	87	ASP	CB-CG-OD2	5.38	123.14	118.30
31	l5	87	ASP	CB-CG-OD2	5.38	123.14	118.30
31	l7	87	ASP	CB-CG-OD2	5.37	123.14	118.30
31	l8	77	ASP	CB-CG-OD2	5.37	123.14	118.30
31	lC	87	ASP	CB-CG-OD2	5.37	123.14	118.30
2	CB	207	LEU	CA-CB-CG	5.37	127.65	115.30
31	lI	77	ASP	CB-CG-OD2	5.37	123.13	118.30
1	BH	216	GLY	N-CA-C	5.36	126.51	113.10
31	l7	77	ASP	CB-CG-OD2	5.36	123.13	118.30
1	B8	216	GLY	N-CA-C	5.36	126.51	113.10
32	k8	107	ASP	CB-CG-OD2	5.36	123.13	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	jJ	49	ASP	CB-CG-OD2	5.36	123.13	118.30
31	l6	87	ASP	CB-CG-OD2	5.36	123.12	118.30
31	lH	77	ASP	CB-CG-OD2	5.36	123.12	118.30
1	BJ	216	GLY	N-CA-C	5.36	126.50	113.10
2	C4	207	LEU	CA-CB-CG	5.36	127.63	115.30
31	lI	87	ASP	CB-CG-OD2	5.36	123.12	118.30
31	l2	77	ASP	CB-CG-OD2	5.36	123.12	118.30
32	kA	152	ASP	CB-CG-OD2	5.36	123.12	118.30
31	lJ	77	ASP	CB-CG-OD2	5.36	123.12	118.30
31	lC	77	ASP	CB-CG-OD2	5.35	123.12	118.30
31	j8	49	ASP	CB-CG-OD2	5.35	123.12	118.30
31	lH	87	ASP	CB-CG-OD2	5.35	123.12	118.30
31	lA	77	ASP	CB-CG-OD2	5.35	123.12	118.30
31	l5	77	ASP	CB-CG-OD2	5.35	123.11	118.30
31	l6	77	ASP	CB-CG-OD2	5.35	123.11	118.30
31	j7	49	ASP	CB-CG-OD2	5.35	123.11	118.30
31	j5	49	ASP	CB-CG-OD2	5.34	123.11	118.30
31	l2	87	ASP	CB-CG-OD2	5.34	123.11	118.30
1	B5	113	ARG	NE-CZ-NH1	5.34	122.97	120.30
31	f6	49	ASP	CB-CG-OD2	5.34	123.11	118.30
32	k8	152	ASP	CB-CG-OD2	5.34	123.11	118.30
31	j9	49	ASP	CB-CG-OD2	5.34	123.11	118.30
32	k9	107	ASP	CB-CG-OD2	5.34	123.11	118.30
1	B5	216	GLY	N-CA-C	5.34	126.44	113.10
31	l9	87	ASP	CB-CG-OD2	5.34	123.10	118.30
32	k9	152	ASP	CB-CG-OD2	5.34	123.10	118.30
31	jA	49	ASP	CB-CG-OD2	5.34	123.10	118.30
31	fC	49	ASP	CB-CG-OD2	5.33	123.10	118.30
31	lC	13	ASP	CB-CG-OD2	5.33	123.10	118.30
7	bD	68	ARG	NE-CZ-NH2	5.33	122.97	120.30
1	BH	113	ARG	NE-CZ-NH1	5.33	122.97	120.30
32	kA	107	ASP	CB-CG-OD2	5.33	123.10	118.30
32	k7	107	ASP	CB-CG-OD2	5.33	123.10	118.30
31	l8	87	ASP	CB-CG-OD2	5.33	123.10	118.30
31	l9	13	ASP	CB-CG-OD2	5.33	123.10	118.30
4	7G	112	LEU	CA-CB-CG	5.33	127.56	115.30
32	kC	152	ASP	CB-CG-OD2	5.33	123.09	118.30
4	7L	112	LEU	CA-CB-CG	5.32	127.54	115.30
31	hJ	82	ASP	CB-CG-OD2	5.32	123.09	118.30
31	lJ	87	ASP	CB-CG-OD2	5.32	123.09	118.30
1	B8	113	ARG	NE-CZ-NH1	5.32	122.96	120.30
31	j2	49	ASP	CB-CG-OD2	5.32	123.09	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	k5	152	ASP	CB-CG-OD2	5.32	123.08	118.30
31	lA	87	ASP	CB-CG-OD2	5.32	123.09	118.30
31	jH	49	ASP	CB-CG-OD2	5.32	123.09	118.30
1	BJ	113	ARG	NE-CZ-NH1	5.32	122.96	120.30
4	WL	20	ASP	CB-CG-OD1	5.32	123.08	118.30
32	k5	107	ASP	CB-CG-OD2	5.32	123.08	118.30
31	l9	77	ASP	CB-CG-OD2	5.32	123.08	118.30
31	j6	49	ASP	CB-CG-OD2	5.31	123.08	118.30
32	kI	152	ASP	CB-CG-OD2	5.31	123.08	118.30
4	LL	100	ASP	CB-CG-OD1	5.31	123.08	118.30
31	fA	49	ASP	CB-CG-OD2	5.31	123.08	118.30
32	kH	152	ASP	CB-CG-OD2	5.31	123.08	118.30
32	k3	152	ASP	CB-CG-OD2	5.31	123.08	118.30
32	k6	165	ASP	CB-CG-OD2	5.31	123.08	118.30
31	dA	108	ASP	CB-CG-OD2	5.31	123.08	118.30
31	fA	155	ASP	CB-CG-OD2	5.31	123.08	118.30
31	f5	49	ASP	CB-CG-OD2	5.30	123.07	118.30
31	d7	108	ASP	CB-CG-OD2	5.30	123.07	118.30
31	lA	13	ASP	CB-CG-OD2	5.30	123.07	118.30
32	kH	107	ASP	CB-CG-OD2	5.30	123.07	118.30
32	kJ	165	ASP	CB-CG-OD2	5.30	123.07	118.30
4	WG	20	ASP	CB-CG-OD1	5.30	123.07	118.30
31	b3	108	ASP	CB-CG-OD2	5.30	123.07	118.30
31	j3	49	ASP	CB-CG-OD2	5.30	123.07	118.30
32	k3	165	ASP	CB-CG-OD2	5.30	123.07	118.30
32	k6	152	ASP	CB-CG-OD2	5.30	123.07	118.30
31	d8	108	ASP	CB-CG-OD2	5.30	123.07	118.30
32	cC	25	ASP	CB-CG-OD2	5.30	123.07	118.30
32	mI	25	ASP	CB-CG-OD2	5.30	123.07	118.30
32	k2	107	ASP	CB-CG-OD2	5.30	123.07	118.30
31	f3	49	ASP	CB-CG-OD2	5.30	123.07	118.30
32	c5	107	ASP	CB-CG-OD2	5.30	123.07	118.30
31	l7	13	ASP	CB-CG-OD2	5.30	123.07	118.30
31	dH	108	ASP	CB-CG-OD2	5.30	123.07	118.30
32	c8	107	ASP	CB-CG-OD2	5.30	123.07	118.30
31	f3	155	ASP	CB-CG-OD2	5.30	123.07	118.30
31	d5	108	ASP	CB-CG-OD2	5.30	123.07	118.30
31	l8	13	ASP	CB-CG-OD2	5.30	123.07	118.30
31	b6	108	ASP	CB-CG-OD2	5.29	123.06	118.30
32	c7	25	ASP	CB-CG-OD2	5.29	123.06	118.30
31	b2	108	ASP	CB-CG-OD2	5.29	123.06	118.30
32	c3	107	ASP	CB-CG-OD2	5.29	123.06	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	hA	82	ASP	CB-CG-OD2	5.29	123.06	118.30
31	hI	82	ASP	CB-CG-OD2	5.29	123.06	118.30
32	c2	107	ASP	CB-CG-OD2	5.29	123.06	118.30
32	e6	152	ASP	CB-CG-OD2	5.29	123.06	118.30
31	bA	108	ASP	CB-CG-OD2	5.29	123.06	118.30
31	dI	108	ASP	CB-CG-OD2	5.29	123.06	118.30
32	mA	25	ASP	CB-CG-OD2	5.29	123.06	118.30
31	fH	49	ASP	CB-CG-OD2	5.29	123.06	118.30
32	cC	165	ASP	CB-CG-OD2	5.29	123.06	118.30
31	d6	108	ASP	CB-CG-OD2	5.29	123.06	118.30
31	f7	49	ASP	CB-CG-OD2	5.29	123.06	118.30
31	f2	155	ASP	CB-CG-OD2	5.29	123.06	118.30
31	l2	82	ASP	CB-CG-OD2	5.29	123.06	118.30
31	h3	82	ASP	CB-CG-OD2	5.29	123.06	118.30
31	f6	87	ASP	CB-CG-OD2	5.29	123.06	118.30
31	bC	108	ASP	CB-CG-OD2	5.29	123.06	118.30
31	fI	49	ASP	CB-CG-OD2	5.29	123.06	118.30
32	kI	107	ASP	CB-CG-OD2	5.29	123.06	118.30
32	kJ	152	ASP	CB-CG-OD2	5.29	123.06	118.30
31	f2	49	ASP	CB-CG-OD2	5.28	123.06	118.30
31	h2	82	ASP	CB-CG-OD2	5.28	123.06	118.30
32	c5	25	ASP	CB-CG-OD2	5.28	123.06	118.30
31	b7	82	ASP	CB-CG-OD2	5.28	123.06	118.30
31	f9	49	ASP	CB-CG-OD2	5.28	123.05	118.30
31	bA	82	ASP	CB-CG-OD2	5.28	123.06	118.30
31	lI	13	ASP	CB-CG-OD2	5.28	123.06	118.30
32	kJ	107	ASP	CB-CG-OD2	5.28	123.06	118.30
31	dJ	108	ASP	CB-CG-OD2	5.28	123.05	118.30
31	lJ	82	ASP	CB-CG-OD2	5.28	123.05	118.30
32	e7	152	ASP	CB-CG-OD2	5.28	123.05	118.30
31	l7	82	ASP	CB-CG-OD2	5.28	123.05	118.30
31	h8	82	ASP	CB-CG-OD2	5.28	123.05	118.30
31	jC	49	ASP	CB-CG-OD2	5.28	123.05	118.30
31	bH	108	ASP	CB-CG-OD2	5.28	123.05	118.30
31	bJ	108	ASP	CB-CG-OD2	5.28	123.05	118.30
32	cJ	165	ASP	CB-CG-OD2	5.28	123.05	118.30
31	d2	108	ASP	CB-CG-OD2	5.28	123.05	118.30
31	d3	108	ASP	CB-CG-OD2	5.28	123.05	118.30
32	eI	152	ASP	CB-CG-OD2	5.28	123.05	118.30
31	lJ	116	ASP	CB-CG-OD2	5.28	123.05	118.30
31	h9	49	ASP	CB-CG-OD2	5.28	123.05	118.30
32	m9	25	ASP	CB-CG-OD2	5.28	123.05	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	h9	82	ASP	CB-CG-OD2	5.28	123.05	118.30
31	lC	82	ASP	CB-CG-OD2	5.28	123.05	118.30
31	fJ	87	ASP	CB-CG-OD2	5.28	123.05	118.30
4	LG	100	ASP	CB-CG-OD1	5.27	123.05	118.30
32	m3	25	ASP	CB-CG-OD2	5.27	123.05	118.30
32	k7	152	ASP	CB-CG-OD2	5.27	123.05	118.30
31	l8	82	ASP	CB-CG-OD2	5.27	123.05	118.30
31	f9	87	ASP	CB-CG-OD2	5.27	123.05	118.30
32	kC	165	ASP	CB-CG-OD2	5.27	123.05	118.30
31	lH	13	ASP	CB-CG-OD2	5.27	123.05	118.30
31	lI	116	ASP	CB-CG-OD2	5.27	123.05	118.30
31	l2	116	ASP	CB-CG-OD2	5.27	123.04	118.30
31	l5	13	ASP	CB-CG-OD2	5.27	123.05	118.30
32	k6	107	ASP	CB-CG-OD2	5.27	123.04	118.30
32	c7	165	ASP	CB-CG-OD2	5.27	123.05	118.30
32	e8	152	ASP	CB-CG-OD2	5.27	123.05	118.30
31	d9	108	ASP	CB-CG-OD2	5.27	123.05	118.30
31	l9	82	ASP	CB-CG-OD2	5.27	123.05	118.30
32	kA	165	ASP	CB-CG-OD2	5.27	123.05	118.30
31	dC	108	ASP	CB-CG-OD2	5.27	123.05	118.30
31	hH	82	ASP	CB-CG-OD2	5.27	123.05	118.30
32	cI	107	ASP	CB-CG-OD2	5.27	123.05	118.30
31	l3	13	ASP	CB-CG-OD2	5.27	123.04	118.30
32	e2	165	ASP	CB-CG-OD2	5.27	123.04	118.30
1	B2	52	ARG	NE-CZ-NH1	5.27	122.93	120.30
31	f8	87	ASP	CB-CG-OD2	5.27	123.04	118.30
32	cC	144	ASP	CB-CG-OD2	5.27	123.04	118.30
32	cH	107	ASP	CB-CG-OD2	5.27	123.04	118.30
31	fJ	49	ASP	CB-CG-OD2	5.27	123.04	118.30
32	i7	165	ASP	CB-CG-OD2	5.27	123.04	118.30
31	lH	82	ASP	CB-CG-OD2	5.27	123.04	118.30
31	dJ	82	ASP	CB-CG-OD2	5.27	123.04	118.30
32	m2	25	ASP	CB-CG-OD2	5.26	123.04	118.30
32	i5	165	ASP	CB-CG-OD2	5.26	123.04	118.30
32	m6	25	ASP	CB-CG-OD2	5.26	123.04	118.30
31	f7	77	ASP	CB-CG-OD2	5.26	123.04	118.30
31	h7	82	ASP	CB-CG-OD2	5.26	123.04	118.30
31	lA	116	ASP	CB-CG-OD2	5.26	123.04	118.30
32	k3	107	ASP	CB-CG-OD2	5.26	123.04	118.30
32	c6	25	ASP	CB-CG-OD2	5.26	123.04	118.30
32	eJ	152	ASP	CB-CG-OD2	5.26	123.04	118.30
32	eJ	165	ASP	CB-CG-OD2	5.26	123.04	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	d6	155	ASP	CB-CG-OD2	5.26	123.04	118.30
31	b9	82	ASP	CB-CG-OD2	5.26	123.03	118.30
32	eC	165	ASP	CB-CG-OD2	5.26	123.04	118.30
32	cH	25	ASP	CB-CG-OD2	5.26	123.04	118.30
32	cI	144	ASP	CB-CG-OD2	5.26	123.04	118.30
32	cJ	107	ASP	CB-CG-OD2	5.26	123.04	118.30
32	c3	25	ASP	CB-CG-OD2	5.26	123.03	118.30
31	l6	13	ASP	CB-CG-OD2	5.26	123.03	118.30
32	c9	25	ASP	CB-CG-OD2	5.26	123.03	118.30
31	b5	108	ASP	CB-CG-OD2	5.26	123.03	118.30
31	j8	13	ASP	CB-CG-OD2	5.26	123.03	118.30
32	e9	152	ASP	CB-CG-OD2	5.26	123.03	118.30
31	jI	13	ASP	CB-CG-OD2	5.26	123.03	118.30
3	XB	24	ASP	CB-CG-OD1	5.26	123.03	118.30
32	k7	165	ASP	CB-CG-OD2	5.26	123.03	118.30
31	b8	108	ASP	CB-CG-OD2	5.26	123.03	118.30
31	hA	49	ASP	CB-CG-OD2	5.26	123.03	118.30
32	cI	25	ASP	CB-CG-OD2	5.26	123.03	118.30
32	g2	25	ASP	CB-CG-OD2	5.25	123.03	118.30
31	f3	77	ASP	CB-CG-OD2	5.25	123.03	118.30
31	l6	82	ASP	CB-CG-OD2	5.25	123.03	118.30
31	d7	49	ASP	CB-CG-OD2	5.25	123.03	118.30
32	mH	25	ASP	CB-CG-OD2	5.25	123.03	118.30
32	kI	165	ASP	CB-CG-OD2	5.25	123.03	118.30
31	f2	87	ASP	CB-CG-OD2	5.25	123.03	118.30
32	i2	25	ASP	CB-CG-OD2	5.25	123.03	118.30
32	k2	165	ASP	CB-CG-OD2	5.25	123.03	118.30
31	b5	82	ASP	CB-CG-OD2	5.25	123.03	118.30
32	c8	144	ASP	CB-CG-OD2	5.25	123.03	118.30
31	f9	155	ASP	CB-CG-OD2	5.25	123.03	118.30
31	hC	82	ASP	CB-CG-OD2	5.25	123.03	118.30
32	kC	107	ASP	CB-CG-OD2	5.25	123.03	118.30
32	kH	165	ASP	CB-CG-OD2	5.25	123.03	118.30
31	bI	82	ASP	CB-CG-OD2	5.25	123.03	118.30
28	BG	128	ALA	N-CA-C	-5.25	96.82	111.00
28	BL	128	ALA	N-CA-C	-5.25	96.82	111.00
32	g5	25	ASP	CB-CG-OD2	5.25	123.03	118.30
32	m6	165	ASP	CB-CG-OD2	5.25	123.03	118.30
31	b7	108	ASP	CB-CG-OD2	5.25	123.03	118.30
32	c7	107	ASP	CB-CG-OD2	5.25	123.03	118.30
32	i8	165	ASP	CB-CG-OD2	5.25	123.03	118.30
32	k8	165	ASP	CB-CG-OD2	5.25	123.03	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	l9	116	ASP	CB-CG-OD2	5.25	123.03	118.30
31	fH	155	ASP	CB-CG-OD2	5.25	123.03	118.30
32	i2	165	ASP	CB-CG-OD2	5.25	123.03	118.30
31	d3	82	ASP	CB-CG-OD2	5.25	123.02	118.30
31	l3	82	ASP	CB-CG-OD2	5.25	123.02	118.30
31	f6	155	ASP	CB-CG-OD2	5.25	123.02	118.30
32	k6	13	ASP	CB-CG-OD2	5.25	123.02	118.30
32	eH	152	ASP	CB-CG-OD2	5.25	123.02	118.30
31	fH	87	ASP	CB-CG-OD2	5.25	123.02	118.30
31	bI	108	ASP	CB-CG-OD2	5.25	123.02	118.30
31	jI	49	ASP	CB-CG-OD2	5.25	123.02	118.30
32	cJ	25	ASP	CB-CG-OD2	5.25	123.02	118.30
31	b2	77	ASP	CB-CG-OD2	5.25	123.02	118.30
32	c2	144	ASP	CB-CG-OD2	5.25	123.02	118.30
32	e2	152	ASP	CB-CG-OD2	5.25	123.02	118.30
3	X4	24	ASP	CB-CG-OD1	5.25	123.02	118.30
32	c6	107	ASP	CB-CG-OD2	5.25	123.02	118.30
31	h6	49	ASP	CB-CG-OD2	5.25	123.02	118.30
19	qD	44	TYR	CA-CB-CG	5.25	123.37	113.40
32	m3	107	ASP	CB-CG-OD2	5.25	123.02	118.30
31	l7	116	ASP	CB-CG-OD2	5.25	123.02	118.30
31	f8	155	ASP	CB-CG-OD2	5.25	123.02	118.30
31	b9	108	ASP	CB-CG-OD2	5.25	123.02	118.30
32	k9	165	ASP	CB-CG-OD2	5.25	123.02	118.30
31	jA	13	ASP	CB-CG-OD2	5.25	123.02	118.30
32	eC	152	ASP	CB-CG-OD2	5.25	123.02	118.30
31	dH	82	ASP	CB-CG-OD2	5.25	123.02	118.30
32	iJ	165	ASP	CB-CG-OD2	5.25	123.02	118.30
31	b3	82	ASP	CB-CG-OD2	5.24	123.02	118.30
31	d5	49	ASP	CB-CG-OD2	5.24	123.02	118.30
31	b6	116	ASP	CB-CG-OD2	5.24	123.02	118.30
32	c7	144	ASP	CB-CG-OD2	5.24	123.02	118.30
31	d7	13	ASP	CB-CG-OD2	5.24	123.02	118.30
31	bC	77	ASP	CB-CG-OD2	5.24	123.02	118.30
32	mC	165	ASP	CB-CG-OD2	5.24	123.02	118.30
7	bE	68	ARG	NE-CZ-NH2	5.24	122.92	120.30
19	qE	44	TYR	CA-CB-CG	5.24	123.36	113.40
31	dI	155	ASP	CB-CG-OD2	5.24	123.02	118.30
31	h7	49	ASP	CB-CG-OD2	5.24	123.02	118.30
31	fA	82	ASP	CB-CG-OD2	5.24	123.02	118.30
3	4L	86	ASP	CB-CG-OD1	5.24	123.02	118.30
3	IL	154	ASP	CB-CG-OD2	5.24	123.02	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	i3	165	ASP	CB-CG-OD2	5.24	123.02	118.30
32	m5	25	ASP	CB-CG-OD2	5.24	123.02	118.30
32	c6	165	ASP	CB-CG-OD2	5.24	123.02	118.30
31	h7	77	ASP	CB-CG-OD2	5.24	123.02	118.30
31	f8	49	ASP	CB-CG-OD2	5.24	123.02	118.30
31	lH	116	ASP	CB-CG-OD2	5.24	123.02	118.30
31	h3	49	ASP	CB-CG-OD2	5.24	123.02	118.30
31	d5	77	ASP	CB-CG-OD2	5.24	123.01	118.30
31	d5	82	ASP	CB-CG-OD2	5.24	123.02	118.30
31	l5	116	ASP	CB-CG-OD2	5.24	123.01	118.30
31	f7	87	ASP	CB-CG-OD2	5.24	123.02	118.30
32	m7	25	ASP	CB-CG-OD2	5.24	123.01	118.30
32	e9	107	ASP	CB-CG-OD2	5.24	123.02	118.30
32	c2	25	ASP	CB-CG-OD2	5.24	123.01	118.30
32	c3	165	ASP	CB-CG-OD2	5.24	123.01	118.30
32	g9	25	ASP	CB-CG-OD2	5.24	123.01	118.30
31	jH	13	ASP	CB-CG-OD2	5.24	123.01	118.30
19	QE	44	TYR	CA-CB-CG	5.24	123.35	113.40
3	IL	100	ASP	CB-CG-OD2	5.24	123.01	118.30
19	Q1	44	TYR	CA-CB-CG	5.24	123.35	113.40
31	b3	116	ASP	CB-CG-OD2	5.24	123.01	118.30
32	k3	13	ASP	CB-CG-OD2	5.24	123.01	118.30
31	h5	82	ASP	CB-CG-OD2	5.24	123.01	118.30
31	j5	13	ASP	CB-CG-OD2	5.24	123.01	118.30
31	d8	155	ASP	CB-CG-OD2	5.24	123.01	118.30
31	l8	155	ASP	CB-CG-OD2	5.24	123.01	118.30
32	m9	165	ASP	CB-CG-OD2	5.24	123.01	118.30
32	cC	107	ASP	CB-CG-OD2	5.24	123.01	118.30
32	mI	144	ASP	CB-CG-OD2	5.24	123.01	118.30
32	mJ	107	ASP	CB-CG-OD2	5.24	123.01	118.30
19	q1	44	TYR	CA-CB-CG	5.23	123.34	113.40
32	k2	152	ASP	CB-CG-OD2	5.23	123.01	118.30
31	f9	77	ASP	CB-CG-OD2	5.23	123.01	118.30
31	l9	155	ASP	CB-CG-OD2	5.23	123.01	118.30
32	eA	165	ASP	CB-CG-OD2	5.23	123.01	118.30
31	fC	77	ASP	CB-CG-OD2	5.23	123.01	118.30
31	lI	82	ASP	CB-CG-OD2	5.23	123.01	118.30
31	f5	82	ASP	CB-CG-OD2	5.23	123.01	118.30
31	d6	49	ASP	CB-CG-OD2	5.23	123.01	118.30
32	e6	165	ASP	CB-CG-OD2	5.23	123.01	118.30
31	f7	155	ASP	CB-CG-OD2	5.23	123.01	118.30
31	dA	155	ASP	CB-CG-OD2	5.23	123.01	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	eA	152	ASP	CB-CG-OD2	5.23	123.01	118.30
31	lA	82	ASP	CB-CG-OD2	5.23	123.01	118.30
32	mA	107	ASP	CB-CG-OD2	5.23	123.01	118.30
31	bH	82	ASP	CB-CG-OD2	5.23	123.01	118.30
31	dI	82	ASP	CB-CG-OD2	5.23	123.01	118.30
31	bJ	77	ASP	CB-CG-OD2	5.23	123.01	118.30
32	gJ	25	ASP	CB-CG-OD2	5.23	123.01	118.30
32	m2	165	ASP	CB-CG-OD2	5.23	123.01	118.30
31	f5	155	ASP	CB-CG-OD2	5.23	123.01	118.30
32	c8	165	ASP	CB-CG-OD2	5.23	123.01	118.30
32	c9	165	ASP	CB-CG-OD2	5.23	123.01	118.30
31	dA	82	ASP	CB-CG-OD2	5.23	123.01	118.30
31	d2	82	ASP	CB-CG-OD2	5.23	123.01	118.30
31	d3	77	ASP	CB-CG-OD2	5.23	123.01	118.30
31	h8	49	ASP	CB-CG-OD2	5.23	123.01	118.30
32	cA	107	ASP	CB-CG-OD2	5.23	123.01	118.30
31	fC	155	ASP	CB-CG-OD2	5.23	123.01	118.30
31	fJ	155	ASP	CB-CG-OD2	5.23	123.01	118.30
3	IG	84	ASP	CB-CG-OD2	5.23	123.00	118.30
9	d1	102	THR	N-CA-C	-5.23	96.89	111.00
32	i6	165	ASP	CB-CG-OD2	5.23	123.00	118.30
31	hC	49	ASP	CB-CG-OD2	5.23	123.00	118.30
9	dE	102	THR	N-CA-C	-5.23	96.89	111.00
3	4G	86	ASP	CB-CG-OD1	5.23	123.00	118.30
32	cH	165	ASP	CB-CG-OD2	5.23	123.00	118.30
31	fH	77	ASP	CB-CG-OD2	5.23	123.00	118.30
32	iH	165	ASP	CB-CG-OD2	5.23	123.00	118.30
31	fI	77	ASP	CB-CG-OD2	5.23	123.00	118.30
31	lJ	155	ASP	CB-CG-OD2	5.23	123.00	118.30
31	l5	82	ASP	CB-CG-OD2	5.23	123.00	118.30
31	f8	77	ASP	CB-CG-OD2	5.23	123.00	118.30
32	m8	165	ASP	CB-CG-OD2	5.23	123.00	118.30
32	i9	165	ASP	CB-CG-OD2	5.23	123.00	118.30
32	m9	144	ASP	CB-CG-OD2	5.23	123.00	118.30
1	B9	209	GLN	N-CA-C	5.23	125.11	111.00
31	fA	77	ASP	CB-CG-OD2	5.23	123.00	118.30
31	dC	155	ASP	CB-CG-OD2	5.23	123.00	118.30
31	fI	87	ASP	CB-CG-OD2	5.23	123.00	118.30
32	mJ	25	ASP	CB-CG-OD2	5.23	123.00	118.30
19	QD	44	TYR	CA-CB-CG	5.22	123.33	113.40
31	j2	13	ASP	CB-CG-OD2	5.22	123.00	118.30
31	l2	155	ASP	CB-CG-OD2	5.22	123.00	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	i5	152	ASP	CB-CG-OD2	5.22	123.00	118.30
31	h6	77	ASP	CB-CG-OD2	5.22	123.00	118.30
31	j7	13	ASP	CB-CG-OD2	5.22	123.00	118.30
32	e8	165	ASP	CB-CG-OD2	5.22	123.00	118.30
31	l8	49	ASP	CB-CG-OD2	5.22	123.00	118.30
31	fA	87	ASP	CB-CG-OD2	5.22	123.00	118.30
31	jA	77	ASP	CB-CG-OD2	5.22	123.00	118.30
31	fC	82	ASP	CB-CG-OD2	5.22	123.00	118.30
9	dD	102	THR	N-CA-C	-5.22	96.89	111.00
31	fJ	82	ASP	CB-CG-OD2	5.22	123.00	118.30
31	l2	13	ASP	CB-CG-OD2	5.22	123.00	118.30
31	f6	82	ASP	CB-CG-OD2	5.22	123.00	118.30
1	B6	209	GLN	N-CA-C	5.22	125.10	111.00
31	d9	49	ASP	CB-CG-OD2	5.22	123.00	118.30
31	f9	82	ASP	CB-CG-OD2	5.22	123.00	118.30
32	eI	107	ASP	CB-CG-OD2	5.22	123.00	118.30
31	bJ	116	ASP	CB-CG-OD2	5.22	123.00	118.30
32	mJ	144	ASP	CB-CG-OD2	5.22	123.00	118.30
1	BI	209	GLN	N-CA-C	5.22	125.10	111.00
31	f2	77	ASP	CB-CG-OD2	5.22	123.00	118.30
31	bI	77	ASP	CB-CG-OD2	5.22	123.00	118.30
31	d9	77	ASP	CB-CG-OD2	5.22	123.00	118.30
31	d9	82	ASP	CB-CG-OD2	5.22	123.00	118.30
31	bA	116	ASP	CB-CG-OD2	5.22	123.00	118.30
31	dC	82	ASP	CB-CG-OD2	5.22	123.00	118.30
31	hH	49	ASP	CB-CG-OD2	5.22	123.00	118.30
32	kI	13	ASP	CB-CG-OD2	5.22	123.00	118.30
31	jJ	13	ASP	CB-CG-OD2	5.22	123.00	118.30
32	e6	107	ASP	CB-CG-OD2	5.22	123.00	118.30
31	lC	155	ASP	CB-CG-OD2	5.22	123.00	118.30
32	mH	107	ASP	CB-CG-OD2	5.22	123.00	118.30
31	bI	116	ASP	CB-CG-OD2	5.22	123.00	118.30
31	f2	82	ASP	CB-CG-OD2	5.22	123.00	118.30
32	c5	152	ASP	CB-CG-OD2	5.22	123.00	118.30
31	d6	82	ASP	CB-CG-OD2	5.22	123.00	118.30
32	m7	107	ASP	CB-CG-OD2	5.22	123.00	118.30
31	l8	116	ASP	CB-CG-OD2	5.22	122.99	118.30
32	c9	107	ASP	CB-CG-OD2	5.22	122.99	118.30
31	hI	49	ASP	CB-CG-OD2	5.22	122.99	118.30
32	cJ	144	ASP	CB-CG-OD2	5.22	122.99	118.30
31	lJ	13	ASP	CB-CG-OD2	5.22	122.99	118.30
3	IL	12	ASP	CB-CG-OD2	5.21	122.99	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	c2	165	ASP	CB-CG-OD2	5.21	122.99	118.30
32	g7	25	ASP	CB-CG-OD2	5.21	122.99	118.30
32	c8	25	ASP	CB-CG-OD2	5.21	122.99	118.30
31	d8	82	ASP	CB-CG-OD2	5.21	122.99	118.30
1	B9	113	ARG	NE-CZ-NH1	5.21	122.91	120.30
32	cA	25	ASP	CB-CG-OD2	5.21	122.99	118.30
31	dC	49	ASP	CB-CG-OD2	5.21	122.99	118.30
31	dI	77	ASP	CB-CG-OD2	5.21	122.99	118.30
31	bJ	82	ASP	CB-CG-OD2	5.21	122.99	118.30
31	jJ	77	ASP	CB-CG-OD2	5.21	122.99	118.30
32	kJ	13	ASP	CB-CG-OD2	5.21	122.99	118.30
32	m2	107	ASP	CB-CG-OD2	5.21	122.99	118.30
31	b3	77	ASP	CB-CG-OD2	5.21	122.99	118.30
31	b5	49	ASP	CB-CG-OD2	5.21	122.99	118.30
32	m8	25	ASP	CB-CG-OD2	5.21	122.99	118.30
3	IG	12	ASP	CB-CG-OD2	5.21	122.99	118.30
31	b2	82	ASP	CB-CG-OD2	5.21	122.99	118.30
31	d2	49	ASP	CB-CG-OD2	5.21	122.99	118.30
32	k2	13	ASP	CB-CG-OD2	5.21	122.99	118.30
32	c3	144	ASP	CB-CG-OD2	5.21	122.99	118.30
31	d3	49	ASP	CB-CG-OD2	5.21	122.99	118.30
32	e3	165	ASP	CB-CG-OD2	5.21	122.99	118.30
31	d5	155	ASP	CB-CG-OD2	5.21	122.99	118.30
31	b6	77	ASP	CB-CG-OD2	5.21	122.99	118.30
31	b6	82	ASP	CB-CG-OD2	5.21	122.99	118.30
31	d6	77	ASP	CB-CG-OD2	5.21	122.99	118.30
31	l6	116	ASP	CB-CG-OD2	5.21	122.99	118.30
32	g8	13	ASP	CB-CG-OD2	5.21	122.99	118.30
31	bA	77	ASP	CB-CG-OD2	5.21	122.99	118.30
32	iA	165	ASP	CB-CG-OD2	5.21	122.99	118.30
31	jI	155	ASP	CB-CG-OD2	5.21	122.99	118.30
32	e2	144	ASP	CB-CG-OD2	5.21	122.99	118.30
1	B2	209	GLN	N-CA-C	5.21	125.07	111.00
31	j9	82	ASP	CB-CG-OD2	5.21	122.99	118.30
32	m9	107	ASP	CB-CG-OD2	5.21	122.99	118.30
31	fC	87	ASP	CB-CG-OD2	5.21	122.99	118.30
32	eH	165	ASP	CB-CG-OD2	5.21	122.99	118.30
31	l3	116	ASP	CB-CG-OD2	5.21	122.99	118.30
32	k5	165	ASP	CB-CG-OD2	5.21	122.99	118.30
32	g6	13	ASP	CB-CG-OD2	5.21	122.99	118.30
32	m8	107	ASP	CB-CG-OD2	5.21	122.99	118.30
31	lA	155	ASP	CB-CG-OD2	5.21	122.99	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	bC	82	ASP	CB-CG-OD2	5.21	122.99	118.30
31	lC	116	ASP	CB-CG-OD2	5.21	122.99	118.30
31	dH	49	ASP	CB-CG-OD2	5.21	122.99	118.30
32	mH	165	ASP	CB-CG-OD2	5.21	122.99	118.30
32	gI	25	ASP	CB-CG-OD2	5.21	122.99	118.30
3	IG	24	ASP	CB-CG-OD2	5.21	122.98	118.30
3	IL	145	ASP	CB-CG-OD2	5.21	122.99	118.30
31	b2	155	ASP	CB-CG-OD2	5.21	122.99	118.30
32	g2	107	ASP	CB-CG-OD2	5.21	122.98	118.30
31	l2	49	ASP	CB-CG-OD2	5.21	122.99	118.30
31	l5	155	ASP	CB-CG-OD2	5.21	122.98	118.30
31	l7	155	ASP	CB-CG-OD2	5.21	122.99	118.30
32	c9	144	ASP	CB-CG-OD2	5.21	122.99	118.30
32	e9	165	ASP	CB-CG-OD2	5.21	122.99	118.30
32	eC	107	ASP	CB-CG-OD2	5.21	122.99	118.30
31	dH	77	ASP	CB-CG-OD2	5.21	122.99	118.30
32	gH	25	ASP	CB-CG-OD2	5.21	122.98	118.30
32	mJ	165	ASP	CB-CG-OD2	5.21	122.99	118.30
32	i3	25	ASP	CB-CG-OD2	5.21	122.98	118.30
32	e6	144	ASP	CB-CG-OD2	5.21	122.98	118.30
31	b8	82	ASP	CB-CG-OD2	5.21	122.98	118.30
32	mC	25	ASP	CB-CG-OD2	5.21	122.98	118.30
32	cH	144	ASP	CB-CG-OD2	5.21	122.98	118.30
31	fI	155	ASP	CB-CG-OD2	5.21	122.98	118.30
31	b5	77	ASP	CB-CG-OD2	5.20	122.98	118.30
31	d7	82	ASP	CB-CG-OD2	5.20	122.98	118.30
32	m7	165	ASP	CB-CG-OD2	5.20	122.98	118.30
31	d8	13	ASP	CB-CG-OD2	5.20	122.98	118.30
32	g9	13	ASP	CB-CG-OD2	5.20	122.98	118.30
31	dA	49	ASP	CB-CG-OD2	5.20	122.98	118.30
32	gA	144	ASP	CB-CG-OD2	5.20	122.98	118.30
3	dF	83	ARG	NE-CZ-NH1	5.20	122.90	120.30
32	kH	13	ASP	CB-CG-OD2	5.20	122.98	118.30
31	lH	155	ASP	CB-CG-OD2	5.20	122.98	118.30
32	eI	144	ASP	CB-CG-OD2	5.20	122.98	118.30
32	e5	152	ASP	CB-CG-OD2	5.20	122.98	118.30
31	d7	77	ASP	CB-CG-OD2	5.20	122.98	118.30
32	kC	13	ASP	CB-CG-OD2	5.20	122.98	118.30
32	mH	144	ASP	CB-CG-OD2	5.20	122.98	118.30
32	eI	165	ASP	CB-CG-OD2	5.20	122.98	118.30
32	eJ	13	ASP	CB-CG-OD2	5.20	122.98	118.30
32	gJ	144	ASP	CB-CG-OD2	5.20	122.98	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	b7	49	ASP	CB-CG-OD2	5.20	122.98	118.30
32	e7	165	ASP	CB-CG-OD2	5.20	122.98	118.30
31	d8	77	ASP	CB-CG-OD2	5.20	122.98	118.30
31	f8	82	ASP	CB-CG-OD2	5.20	122.98	118.30
32	k9	13	ASP	CB-CG-OD2	5.20	122.98	118.30
31	fH	82	ASP	CB-CG-OD2	5.20	122.98	118.30
32	cI	165	ASP	CB-CG-OD2	5.20	122.98	118.30
3	IL	84	ASP	CB-CG-OD2	5.20	122.98	118.30
31	d2	155	ASP	CB-CG-OD2	5.20	122.98	118.30
31	h2	49	ASP	CB-CG-OD2	5.20	122.98	118.30
31	h3	116	ASP	CB-CG-OD2	5.20	122.98	118.30
32	e5	107	ASP	CB-CG-OD2	5.20	122.98	118.30
32	m5	107	ASP	CB-CG-OD2	5.20	122.98	118.30
32	g6	144	ASP	CB-CG-OD2	5.20	122.98	118.30
31	b7	116	ASP	CB-CG-OD2	5.20	122.98	118.30
32	k7	39	ASP	CB-CG-OD2	5.20	122.98	118.30
31	h8	116	ASP	CB-CG-OD2	5.20	122.98	118.30
31	j8	155	ASP	CB-CG-OD2	5.20	122.98	118.30
31	b9	116	ASP	CB-CG-OD2	5.20	122.98	118.30
32	cA	165	ASP	CB-CG-OD2	5.20	122.98	118.30
32	mA	165	ASP	CB-CG-OD2	5.20	122.98	118.30
32	iI	165	ASP	CB-CG-OD2	5.20	122.98	118.30
31	II	155	ASP	CB-CG-OD2	5.20	122.98	118.30
31	fJ	77	ASP	CB-CG-OD2	5.20	122.98	118.30
31	f3	87	ASP	CB-CG-OD2	5.20	122.98	118.30
31	l3	155	ASP	CB-CG-OD2	5.20	122.98	118.30
31	bC	49	ASP	CB-CG-OD2	5.20	122.98	118.30
31	bH	77	ASP	CB-CG-OD2	5.20	122.98	118.30
31	d2	77	ASP	CB-CG-OD2	5.20	122.98	118.30
32	i3	152	ASP	CB-CG-OD2	5.20	122.98	118.30
31	h6	82	ASP	CB-CG-OD2	5.20	122.98	118.30
32	k8	25	ASP	CB-CG-OD2	5.20	122.98	118.30
31	j9	155	ASP	CB-CG-OD2	5.20	122.98	118.30
32	gC	107	ASP	CB-CG-OD2	5.20	122.98	118.30
32	gC	144	ASP	CB-CG-OD2	5.20	122.98	118.30
31	dH	155	ASP	CB-CG-OD2	5.20	122.97	118.30
32	eH	107	ASP	CB-CG-OD2	5.20	122.97	118.30
31	jJ	108	ASP	CB-CG-OD2	5.20	122.98	118.30
32	g2	13	ASP	CB-CG-OD2	5.19	122.97	118.30
31	j2	77	ASP	CB-CG-OD2	5.19	122.97	118.30
31	lA	49	ASP	CB-CG-OD2	5.19	122.97	118.30
3	IG	145	ASP	CB-CG-OD2	5.19	122.97	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	e3	152	ASP	CB-CG-OD2	5.19	122.97	118.30
31	b6	49	ASP	CB-CG-OD2	5.19	122.97	118.30
31	j6	13	ASP	CB-CG-OD2	5.19	122.97	118.30
31	f7	82	ASP	CB-CG-OD2	5.19	122.97	118.30
32	k8	39	ASP	CB-CG-OD2	5.19	122.97	118.30
31	b9	77	ASP	CB-CG-OD2	5.19	122.97	118.30
31	j9	13	ASP	CB-CG-OD2	5.19	122.97	118.30
32	kA	39	ASP	CB-CG-OD2	5.19	122.97	118.30
31	bH	116	ASP	CB-CG-OD2	5.19	122.97	118.30
31	dI	49	ASP	CB-CG-OD2	5.19	122.97	118.30
32	gI	165	ASP	CB-CG-OD2	5.19	122.97	118.30
31	h2	77	ASP	CB-CG-OD2	5.19	122.97	118.30
31	d3	145	ASP	CB-CG-OD2	5.19	122.97	118.30
32	e3	107	ASP	CB-CG-OD2	5.19	122.97	118.30
32	g3	144	ASP	CB-CG-OD2	5.19	122.97	118.30
32	m5	144	ASP	CB-CG-OD2	5.19	122.97	118.30
32	g6	25	ASP	CB-CG-OD2	5.19	122.97	118.30
32	mA	144	ASP	CB-CG-OD2	5.19	122.97	118.30
32	mC	144	ASP	CB-CG-OD2	5.19	122.97	118.30
31	dI	13	ASP	CB-CG-OD2	5.19	122.97	118.30
32	mI	165	ASP	CB-CG-OD2	5.19	122.97	118.30
32	e5	144	ASP	CB-CG-OD2	5.19	122.97	118.30
31	f5	87	ASP	CB-CG-OD2	5.19	122.97	118.30
32	g8	25	ASP	CB-CG-OD2	5.19	122.97	118.30
32	gC	165	ASP	CB-CG-OD2	5.19	122.97	118.30
31	dI	145	ASP	CB-CG-OD2	5.19	122.97	118.30
3	dK	83	ARG	NE-CZ-NH1	5.19	122.89	120.30
32	g3	165	ASP	CB-CG-OD2	5.19	122.97	118.30
32	c6	152	ASP	CB-CG-OD2	5.19	122.97	118.30
32	e7	144	ASP	CB-CG-OD2	5.19	122.97	118.30
32	g7	144	ASP	CB-CG-OD2	5.19	122.97	118.30
31	h9	77	ASP	CB-CG-OD2	5.19	122.97	118.30
31	hC	116	ASP	CB-CG-OD2	5.19	122.97	118.30
31	jC	13	ASP	CB-CG-OD2	5.19	122.97	118.30
31	jC	77	ASP	CB-CG-OD2	5.19	122.97	118.30
31	jC	82	ASP	CB-CG-OD2	5.19	122.97	118.30
3	IL	64	ASP	CB-CG-OD2	5.19	122.97	118.30
31	f5	77	ASP	CB-CG-OD2	5.19	122.97	118.30
32	m6	107	ASP	CB-CG-OD2	5.19	122.97	118.30
32	iJ	152	ASP	CB-CG-OD2	5.19	122.97	118.30
31	b2	49	ASP	CB-CG-OD2	5.18	122.97	118.30
31	j3	13	ASP	CB-CG-OD2	5.18	122.97	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	m3	165	ASP	CB-CG-OD2	5.18	122.97	118.30
31	h5	49	ASP	CB-CG-OD2	5.18	122.97	118.30
32	m5	165	ASP	CB-CG-OD2	5.18	122.97	118.30
32	i7	25	ASP	CB-CG-OD2	5.18	122.97	118.30
32	mC	107	ASP	CB-CG-OD2	5.18	122.97	118.30
31	dH	13	ASP	CB-CG-OD2	5.18	122.97	118.30
31	jI	77	ASP	CB-CG-OD2	5.18	122.97	118.30
7	BE	80	LEU	CA-CB-CG	-5.18	103.38	115.30
31	f6	77	ASP	CB-CG-OD2	5.18	122.96	118.30
31	j6	108	ASP	CB-CG-OD2	5.18	122.97	118.30
31	l6	155	ASP	CB-CG-OD2	5.18	122.97	118.30
31	b7	77	ASP	CB-CG-OD2	5.18	122.97	118.30
32	i7	152	ASP	CB-CG-OD2	5.18	122.96	118.30
31	d9	155	ASP	CB-CG-OD2	5.18	122.97	118.30
32	cA	152	ASP	CB-CG-OD2	5.18	122.97	118.30
32	iA	25	ASP	CB-CG-OD2	5.18	122.96	118.30
32	kA	13	ASP	CB-CG-OD2	5.18	122.96	118.30
31	jH	77	ASP	CB-CG-OD2	5.18	122.97	118.30
31	lH	49	ASP	CB-CG-OD2	5.18	122.97	118.30
31	dJ	155	ASP	CB-CG-OD2	5.18	122.97	118.30
31	lJ	49	ASP	CB-CG-OD2	5.18	122.96	118.30
32	g7	165	ASP	CB-CG-OD2	5.18	122.96	118.30
31	h7	116	ASP	CB-CG-OD2	5.18	122.96	118.30
31	bC	116	ASP	CB-CG-OD2	5.18	122.96	118.30
32	gC	13	ASP	CB-CG-OD2	5.18	122.96	118.30
31	hJ	49	ASP	CB-CG-OD2	5.18	122.96	118.30
7	BD	80	LEU	CA-CB-CG	-5.18	103.39	115.30
32	g2	144	ASP	CB-CG-OD2	5.18	122.96	118.30
32	g3	25	ASP	CB-CG-OD2	5.18	122.96	118.30
32	e7	107	ASP	CB-CG-OD2	5.18	122.96	118.30
32	k8	13	ASP	CB-CG-OD2	5.18	122.96	118.30
32	eA	107	ASP	CB-CG-OD2	5.18	122.96	118.30
32	gA	25	ASP	CB-CG-OD2	5.18	122.96	118.30
32	gC	25	ASP	CB-CG-OD2	5.18	122.96	118.30
31	hH	77	ASP	CB-CG-OD2	5.18	122.96	118.30
31	fI	82	ASP	CB-CG-OD2	5.18	122.96	118.30
32	e2	107	ASP	CB-CG-OD2	5.18	122.96	118.30
32	g2	165	ASP	CB-CG-OD2	5.18	122.96	118.30
31	d7	155	ASP	CB-CG-OD2	5.18	122.96	118.30
31	d9	13	ASP	CB-CG-OD2	5.18	122.96	118.30
7	B1	80	LEU	CA-CB-CG	-5.18	103.39	115.30
32	c2	152	ASP	CB-CG-OD2	5.18	122.96	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	i5	25	ASP	CB-CG-OD2	5.18	122.96	118.30
31	j5	82	ASP	CB-CG-OD2	5.18	122.96	118.30
31	j7	116	ASP	CB-CG-OD2	5.18	122.96	118.30
32	g8	107	ASP	CB-CG-OD2	5.18	122.96	118.30
32	iH	25	ASP	CB-CG-OD2	5.18	122.96	118.30
31	jJ	155	ASP	CB-CG-OD2	5.18	122.96	118.30
31	j5	77	ASP	CB-CG-OD2	5.17	122.96	118.30
32	c6	144	ASP	CB-CG-OD2	5.17	122.96	118.30
32	g7	107	ASP	CB-CG-OD2	5.17	122.96	118.30
32	i7	144	ASP	CB-CG-OD2	5.17	122.96	118.30
32	i8	152	ASP	CB-CG-OD2	5.17	122.96	118.30
31	j8	77	ASP	CB-CG-OD2	5.17	122.96	118.30
31	dA	77	ASP	CB-CG-OD2	5.17	122.96	118.30
32	gA	13	ASP	CB-CG-OD2	5.17	122.96	118.30
31	dC	77	ASP	CB-CG-OD2	5.17	122.96	118.30
32	gH	144	ASP	CB-CG-OD2	5.17	122.96	118.30
31	jH	155	ASP	CB-CG-OD2	5.17	122.96	118.30
31	dJ	13	ASP	CB-CG-OD2	5.17	122.96	118.30
31	dJ	77	ASP	CB-CG-OD2	5.17	122.96	118.30
32	eJ	144	ASP	CB-CG-OD2	5.17	122.96	118.30
32	m3	144	ASP	CB-CG-OD2	5.17	122.96	118.30
31	d5	13	ASP	CB-CG-OD2	5.17	122.95	118.30
31	dA	13	ASP	CB-CG-OD2	5.17	122.96	118.30
32	eH	144	ASP	CB-CG-OD2	5.17	122.96	118.30
31	j3	77	ASP	CB-CG-OD2	5.17	122.95	118.30
32	g6	107	ASP	CB-CG-OD2	5.17	122.95	118.30
31	h6	116	ASP	CB-CG-OD2	5.17	122.95	118.30
32	e8	144	ASP	CB-CG-OD2	5.17	122.95	118.30
31	hA	116	ASP	CB-CG-OD2	5.17	122.95	118.30
31	bH	49	ASP	CB-CG-OD2	5.17	122.95	118.30
3	IL	24	ASP	CB-CG-OD2	5.17	122.95	118.30
31	j6	155	ASP	CB-CG-OD2	5.17	122.95	118.30
31	j8	82	ASP	CB-CG-OD2	5.17	122.95	118.30
31	b9	49	ASP	CB-CG-OD2	5.17	122.95	118.30
31	hC	77	ASP	CB-CG-OD2	5.17	122.95	118.30
31	hI	116	ASP	CB-CG-OD2	5.17	122.95	118.30
1	BA	52	ARG	NE-CZ-NH1	5.17	122.89	120.30
31	d3	155	ASP	CB-CG-OD2	5.17	122.95	118.30
31	f3	82	ASP	CB-CG-OD2	5.17	122.95	118.30
32	c7	152	ASP	CB-CG-OD2	5.17	122.95	118.30
32	i9	152	ASP	CB-CG-OD2	5.17	122.95	118.30
32	k9	25	ASP	CB-CG-OD2	5.17	122.95	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	dC	13	ASP	CB-CG-OD2	5.17	122.95	118.30
32	iC	165	ASP	CB-CG-OD2	5.17	122.95	118.30
32	kI	25	ASP	CB-CG-OD2	5.17	122.95	118.30
31	b5	116	ASP	CB-CG-OD2	5.17	122.95	118.30
32	e7	25	ASP	CB-CG-OD2	5.17	122.95	118.30
31	j7	82	ASP	CB-CG-OD2	5.17	122.95	118.30
32	i8	25	ASP	CB-CG-OD2	5.17	122.95	118.30
31	bC	155	ASP	CB-CG-OD2	5.17	122.95	118.30
32	iI	25	ASP	CB-CG-OD2	5.17	122.95	118.30
31	jI	116	ASP	CB-CG-OD2	5.17	122.95	118.30
31	l3	49	ASP	CB-CG-OD2	5.17	122.95	118.30
32	cA	144	ASP	CB-CG-OD2	5.17	122.95	118.30
31	jH	82	ASP	CB-CG-OD2	5.17	122.95	118.30
32	gI	144	ASP	CB-CG-OD2	5.17	122.95	118.30
32	mI	107	ASP	CB-CG-OD2	5.17	122.95	118.30
31	jJ	116	ASP	CB-CG-OD2	5.17	122.95	118.30
3	IG	64	ASP	CB-CG-OD2	5.16	122.95	118.30
31	j2	82	ASP	CB-CG-OD2	5.16	122.95	118.30
31	j3	155	ASP	CB-CG-OD2	5.16	122.95	118.30
32	k3	39	ASP	CB-CG-OD2	5.16	122.95	118.30
3	O4	64	ASP	CB-CG-OD1	5.16	122.95	118.30
31	b8	49	ASP	CB-CG-OD2	5.16	122.95	118.30
32	gI	107	ASP	CB-CG-OD2	5.16	122.95	118.30
31	dJ	49	ASP	CB-CG-OD2	5.16	122.95	118.30
32	k2	25	ASP	CB-CG-OD2	5.16	122.95	118.30
32	i6	25	ASP	CB-CG-OD2	5.16	122.94	118.30
3	OB	64	ASP	CB-CG-OD1	5.16	122.94	118.30
7	B1	68	ARG	NE-CZ-NH2	5.16	122.88	120.30
32	m2	144	ASP	CB-CG-OD2	5.16	122.94	118.30
31	j6	116	ASP	CB-CG-OD2	5.16	122.94	118.30
32	g9	165	ASP	CB-CG-OD2	5.16	122.94	118.30
32	eA	144	ASP	CB-CG-OD2	5.16	122.94	118.30
31	jC	108	ASP	CB-CG-OD2	5.16	122.94	118.30
32	gH	13	ASP	CB-CG-OD2	5.16	122.94	118.30
32	iH	152	ASP	CB-CG-OD2	5.16	122.94	118.30
31	jH	116	ASP	CB-CG-OD2	5.16	122.94	118.30
31	jJ	82	ASP	CB-CG-OD2	5.16	122.94	118.30
3	IG	100	ASP	CB-CG-OD2	5.16	122.94	118.30
31	j6	82	ASP	CB-CG-OD2	5.16	122.94	118.30
32	m6	144	ASP	CB-CG-OD2	5.16	122.94	118.30
31	j7	108	ASP	CB-CG-OD2	5.16	122.94	118.30
31	l7	49	ASP	CB-CG-OD2	5.16	122.94	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	jA	155	ASP	CB-CG-OD2	5.16	122.94	118.30
31	hH	116	ASP	CB-CG-OD2	5.16	122.94	118.30
31	d3	13	ASP	CB-CG-OD2	5.16	122.94	118.30
31	l5	49	ASP	CB-CG-OD2	5.16	122.94	118.30
32	g9	107	ASP	CB-CG-OD2	5.16	122.94	118.30
31	jA	116	ASP	CB-CG-OD2	5.16	122.94	118.30
32	kC	39	ASP	CB-CG-OD2	5.16	122.94	118.30
32	cI	152	ASP	CB-CG-OD2	5.16	122.94	118.30
31	jI	108	ASP	CB-CG-OD2	5.16	122.94	118.30
31	d2	13	ASP	CB-CG-OD2	5.16	122.94	118.30
31	h2	116	ASP	CB-CG-OD2	5.16	122.94	118.30
32	c5	144	ASP	CB-CG-OD2	5.16	122.94	118.30
32	e5	165	ASP	CB-CG-OD2	5.16	122.94	118.30
31	h5	77	ASP	CB-CG-OD2	5.16	122.94	118.30
32	g7	13	ASP	CB-CG-OD2	5.16	122.94	118.30
31	b8	155	ASP	CB-CG-OD2	5.16	122.94	118.30
31	d8	49	ASP	CB-CG-OD2	5.16	122.94	118.30
32	eC	144	ASP	CB-CG-OD2	5.16	122.94	118.30
32	gH	165	ASP	CB-CG-OD2	5.16	122.94	118.30
31	lI	49	ASP	CB-CG-OD2	5.16	122.94	118.30
32	kJ	25	ASP	CB-CG-OD2	5.16	122.94	118.30
32	m7	144	ASP	CB-CG-OD2	5.15	122.94	118.30
32	iC	25	ASP	CB-CG-OD2	5.15	122.94	118.30
31	b3	49	ASP	CB-CG-OD2	5.15	122.94	118.30
32	c5	165	ASP	CB-CG-OD2	5.15	122.94	118.30
32	g5	13	ASP	CB-CG-OD2	5.15	122.94	118.30
32	g8	144	ASP	CB-CG-OD2	5.15	122.94	118.30
32	kH	39	ASP	CB-CG-OD2	5.15	122.94	118.30
32	iI	144	ASP	CB-CG-OD2	5.15	122.94	118.30
31	b3	155	ASP	CB-CG-OD2	5.15	122.94	118.30
31	l6	49	ASP	CB-CG-OD2	5.15	122.94	118.30
31	b8	77	ASP	CB-CG-OD2	5.15	122.94	118.30
32	g9	144	ASP	CB-CG-OD2	5.15	122.94	118.30
32	gH	107	ASP	CB-CG-OD2	5.15	122.94	118.30
32	gJ	13	ASP	CB-CG-OD2	5.15	122.94	118.30
31	j2	155	ASP	CB-CG-OD2	5.15	122.93	118.30
31	j8	108	ASP	CB-CG-OD2	5.15	122.93	118.30
31	j8	116	ASP	CB-CG-OD2	5.15	122.93	118.30
31	d9	145	ASP	CB-CG-OD2	5.15	122.93	118.30
31	bA	49	ASP	CB-CG-OD2	5.15	122.93	118.30
31	hJ	77	ASP	CB-CG-OD2	5.15	122.93	118.30
1	BA	207	VAL	N-CA-C	5.15	124.90	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	j5	116	ASP	CB-CG-OD2	5.15	122.93	118.30
31	j6	77	ASP	CB-CG-OD2	5.15	122.93	118.30
31	hA	77	ASP	CB-CG-OD2	5.15	122.93	118.30
31	hI	77	ASP	CB-CG-OD2	5.15	122.93	118.30
32	iI	107	ASP	CB-CG-OD2	5.15	122.93	118.30
32	cJ	152	ASP	CB-CG-OD2	5.15	122.93	118.30
32	e8	107	ASP	CB-CG-OD2	5.15	122.93	118.30
31	b9	155	ASP	CB-CG-OD2	5.15	122.93	118.30
31	bJ	49	ASP	CB-CG-OD2	5.15	122.93	118.30
1	BC	207	VAL	N-CA-C	5.14	124.89	111.00
3	IL	86	ASP	CB-CG-OD2	5.14	122.93	118.30
32	e9	13	ASP	CB-CG-OD2	5.14	122.93	118.30
31	jC	155	ASP	CB-CG-OD2	5.14	122.93	118.30
32	gI	13	ASP	CB-CG-OD2	5.14	122.93	118.30
32	iJ	25	ASP	CB-CG-OD2	5.14	122.93	118.30
31	j2	116	ASP	CB-CG-OD2	5.14	122.93	118.30
32	e3	144	ASP	CB-CG-OD2	5.14	122.93	118.30
32	k5	13	ASP	CB-CG-OD2	5.14	122.93	118.30
31	j7	77	ASP	CB-CG-OD2	5.14	122.93	118.30
32	e9	144	ASP	CB-CG-OD2	5.14	122.93	118.30
32	iC	144	ASP	CB-CG-OD2	5.14	122.93	118.30
31	bI	49	ASP	CB-CG-OD2	5.14	122.93	118.30
32	gJ	107	ASP	CB-CG-OD2	5.14	122.93	118.30
7	BD	68	ARG	NE-CZ-NH2	5.14	122.87	120.30
31	d2	145	ASP	CB-CG-OD2	5.14	122.93	118.30
32	m8	144	ASP	CB-CG-OD2	5.14	122.93	118.30
3	IG	154	ASP	CB-CG-OD2	5.14	122.92	118.30
1	B5	233	ASN	N-CA-C	5.14	124.88	111.00
31	h5	116	ASP	CB-CG-OD2	5.14	122.92	118.30
32	g6	165	ASP	CB-CG-OD2	5.14	122.93	118.30
31	b7	155	ASP	CB-CG-OD2	5.14	122.93	118.30
1	B8	233	ASN	N-CA-C	5.14	124.88	111.00
31	j9	108	ASP	CB-CG-OD2	5.14	122.92	118.30
32	cH	152	ASP	CB-CG-OD2	5.14	122.93	118.30
31	b6	155	ASP	CB-CG-OD2	5.14	122.92	118.30
31	d6	13	ASP	CB-CG-OD2	5.14	122.92	118.30
32	e6	13	ASP	CB-CG-OD2	5.14	122.92	118.30
32	eH	13	ASP	CB-CG-OD2	5.14	122.92	118.30
1	BJ	233	ASN	N-CA-C	5.14	124.87	111.00
31	b2	116	ASP	CB-CG-OD2	5.14	122.92	118.30
1	B3	207	VAL	N-CA-C	5.14	124.87	111.00
31	j5	155	ASP	CB-CG-OD2	5.14	122.92	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	l9	49	ASP	CB-CG-OD2	5.14	122.92	118.30
32	kH	25	ASP	CB-CG-OD2	5.14	122.92	118.30
32	iI	152	ASP	CB-CG-OD2	5.14	122.92	118.30
31	h3	77	ASP	CB-CG-OD2	5.13	122.92	118.30
32	i3	13	ASP	CB-CG-OD2	5.13	122.92	118.30
32	e5	13	ASP	CB-CG-OD2	5.13	122.92	118.30
31	j9	116	ASP	CB-CG-OD2	5.13	122.92	118.30
18	oE	71	LEU	CA-CB-CG	5.13	127.11	115.30
31	bH	155	ASP	CB-CG-OD2	5.13	122.92	118.30
31	bJ	155	ASP	CB-CG-OD2	5.13	122.92	118.30
1	BH	233	ASN	N-CA-C	5.13	124.86	111.00
32	k2	144	ASP	CB-CG-OD2	5.13	122.92	118.30
32	g5	144	ASP	CB-CG-OD2	5.13	122.92	118.30
31	d7	145	ASP	CB-CG-OD2	5.13	122.92	118.30
1	B7	207	VAL	N-CA-C	5.13	124.86	111.00
31	jH	108	ASP	CB-CG-OD2	5.13	122.92	118.30
32	k5	25	ASP	CB-CG-OD2	5.13	122.92	118.30
32	k6	25	ASP	CB-CG-OD2	5.13	122.92	118.30
32	k7	13	ASP	CB-CG-OD2	5.13	122.92	118.30
32	i9	25	ASP	CB-CG-OD2	5.13	122.92	118.30
31	j9	77	ASP	CB-CG-OD2	5.13	122.92	118.30
32	gA	107	ASP	CB-CG-OD2	5.13	122.92	118.30
32	iA	152	ASP	CB-CG-OD2	5.13	122.92	118.30
32	eI	13	ASP	CB-CG-OD2	5.13	122.92	118.30
32	kI	39	ASP	CB-CG-OD2	5.13	122.92	118.30
18	OD	71	LEU	CA-CB-CG	5.13	127.10	115.30
18	o1	71	LEU	CA-CB-CG	5.13	127.10	115.30
31	jA	82	ASP	CB-CG-OD2	5.13	122.92	118.30
18	oD	71	LEU	CA-CB-CG	5.13	127.10	115.30
32	cJ	13	ASP	CB-CG-OD2	5.13	122.92	118.30
32	k2	39	ASP	CB-CG-OD2	5.13	122.92	118.30
31	j3	108	ASP	CB-CG-OD2	5.13	122.92	118.30
31	b5	155	ASP	CB-CG-OD2	5.13	122.92	118.30
32	c5	13	ASP	CB-CG-OD2	5.13	122.92	118.30
31	j7	155	ASP	CB-CG-OD2	5.13	122.92	118.30
31	b8	116	ASP	CB-CG-OD2	5.13	122.92	118.30
32	iA	13	ASP	CB-CG-OD2	5.13	122.92	118.30
18	OE	71	LEU	CA-CB-CG	5.13	127.09	115.30
32	e7	13	ASP	CB-CG-OD2	5.13	122.91	118.30
32	e8	13	ASP	CB-CG-OD2	5.13	122.91	118.30
32	eI	25	ASP	CB-CG-OD2	5.13	122.91	118.30
18	O1	71	LEU	CA-CB-CG	5.12	127.09	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	j2	108	ASP	CB-CG-OD2	5.12	122.91	118.30
32	k5	39	ASP	CB-CG-OD2	5.12	122.91	118.30
31	dJ	145	ASP	CB-CG-OD2	5.12	122.91	118.30
32	i2	144	ASP	CB-CG-OD2	5.12	122.91	118.30
32	g3	107	ASP	CB-CG-OD2	5.12	122.91	118.30
32	k7	25	ASP	CB-CG-OD2	5.12	122.91	118.30
31	jI	82	ASP	CB-CG-OD2	5.12	122.91	118.30
32	g5	165	ASP	CB-CG-OD2	5.12	122.91	118.30
31	d6	145	ASP	CB-CG-OD2	5.12	122.91	118.30
32	i6	152	ASP	CB-CG-OD2	5.12	122.91	118.30
31	d8	145	ASP	CB-CG-OD2	5.12	122.91	118.30
32	g8	165	ASP	CB-CG-OD2	5.12	122.91	118.30
31	h9	116	ASP	CB-CG-OD2	5.12	122.91	118.30
31	dH	145	ASP	CB-CG-OD2	5.12	122.91	118.30
31	d5	145	ASP	CB-CG-OD2	5.12	122.91	118.30
32	kC	144	ASP	CB-CG-OD2	5.12	122.91	118.30
32	m3	13	ASP	CB-CG-OD2	5.12	122.91	118.30
32	m9	13	ASP	CB-CG-OD2	5.12	122.91	118.30
32	m7	13	ASP	CB-CG-OD2	5.12	122.91	118.30
32	iC	107	ASP	CB-CG-OD2	5.12	122.91	118.30
7	BE	68	ARG	NE-CZ-NH2	5.12	122.86	120.30
8	c1	413	LEU	CA-CB-CG	5.11	127.06	115.30
32	c3	152	ASP	CB-CG-OD2	5.11	122.90	118.30
32	c8	152	ASP	CB-CG-OD2	5.11	122.90	118.30
31	h8	77	ASP	CB-CG-OD2	5.11	122.90	118.30
31	jA	108	ASP	CB-CG-OD2	5.11	122.90	118.30
32	iC	152	ASP	CB-CG-OD2	5.11	122.90	118.30
31	lC	49	ASP	CB-CG-OD2	5.11	122.90	118.30
32	eJ	107	ASP	CB-CG-OD2	5.11	122.90	118.30
32	e3	25	ASP	CB-CG-OD2	5.11	122.90	118.30
32	e9	25	ASP	CB-CG-OD2	5.11	122.90	118.30
32	gA	165	ASP	CB-CG-OD2	5.11	122.90	118.30
32	k5	144	ASP	CB-CG-OD2	5.11	122.90	118.30
32	e6	25	ASP	CB-CG-OD2	5.11	122.90	118.30
31	jC	116	ASP	CB-CG-OD2	5.11	122.90	118.30
32	cI	13	ASP	CB-CG-OD2	5.11	122.90	118.30
32	kJ	39	ASP	CB-CG-OD2	5.11	122.90	118.30
32	g5	107	ASP	CB-CG-OD2	5.11	122.90	118.30
18	OE	192	LEU	CB-CG-CD2	5.11	119.68	111.00
32	i2	107	ASP	CB-CG-OD2	5.11	122.90	118.30
32	i3	144	ASP	CB-CG-OD2	5.11	122.90	118.30
32	k6	144	ASP	CB-CG-OD2	5.11	122.90	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	hJ	116	ASP	CB-CG-OD2	5.11	122.90	118.30
32	e3	13	ASP	CB-CG-OD2	5.11	122.90	118.30
32	i6	107	ASP	CB-CG-OD2	5.11	122.89	118.30
31	dA	145	ASP	CB-CG-OD2	5.11	122.89	118.30
32	kA	144	ASP	CB-CG-OD2	5.11	122.89	118.30
8	cD	413	LEU	CA-CB-CG	5.11	127.04	115.30
32	kI	144	ASP	CB-CG-OD2	5.11	122.89	118.30
18	OD	192	LEU	CB-CG-CD2	5.10	119.68	111.00
31	dC	145	ASP	CB-CG-OD2	5.10	122.89	118.30
32	gJ	165	ASP	CB-CG-OD2	5.10	122.89	118.30
32	k6	39	ASP	CB-CG-OD2	5.10	122.89	118.30
32	c8	13	ASP	CB-CG-OD2	5.10	122.89	118.30
32	k8	144	ASP	CB-CG-OD2	5.10	122.89	118.30
32	kC	25	ASP	CB-CG-OD2	5.10	122.89	118.30
32	i8	144	ASP	CB-CG-OD2	5.10	122.89	118.30
1	BI	52	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	B3	52	ARG	NE-CZ-NH1	5.10	122.85	120.30
32	e8	25	ASP	CB-CG-OD2	5.10	122.89	118.30
32	i9	144	ASP	CB-CG-OD2	5.10	122.89	118.30
32	m8	13	ASP	CB-CG-OD2	5.10	122.89	118.30
32	i9	13	ASP	CB-CG-OD2	5.10	122.89	118.30
32	eA	13	ASP	CB-CG-OD2	5.10	122.89	118.30
8	cE	413	LEU	CA-CB-CG	5.10	127.02	115.30
32	eH	25	ASP	CB-CG-OD2	5.10	122.89	118.30
32	iI	13	ASP	CB-CG-OD2	5.10	122.89	118.30
32	c9	152	ASP	CB-CG-OD2	5.10	122.89	118.30
32	kA	25	ASP	CB-CG-OD2	5.10	122.89	118.30
18	oD	192	LEU	CB-CG-CD2	5.10	119.66	111.00
32	iH	13	ASP	CB-CG-OD2	5.10	122.89	118.30
32	i2	152	ASP	CB-CG-OD2	5.09	122.88	118.30
32	k9	39	ASP	CB-CG-OD2	5.09	122.89	118.30
31	bA	155	ASP	CB-CG-OD2	5.09	122.89	118.30
18	oE	192	LEU	CB-CG-CD2	5.09	119.66	111.00
32	iH	144	ASP	CB-CG-OD2	5.09	122.89	118.30
4	IF	84	ASP	CB-CG-OD2	-5.09	113.72	118.30
32	i5	144	ASP	CB-CG-OD2	5.09	122.88	118.30
32	i6	13	ASP	CB-CG-OD2	5.09	122.88	118.30
32	iA	107	ASP	CB-CG-OD2	5.09	122.88	118.30
32	eC	13	ASP	CB-CG-OD2	5.09	122.88	118.30
32	iH	107	ASP	CB-CG-OD2	5.09	122.88	118.30
18	o1	192	LEU	CB-CG-CD2	5.09	119.65	111.00
32	i8	13	ASP	CB-CG-OD2	5.09	122.88	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	cC	152	ASP	CB-CG-OD2	5.09	122.88	118.30
32	cH	13	ASP	CB-CG-OD2	5.09	122.88	118.30
31	j3	82	ASP	CB-CG-OD2	5.09	122.88	118.30
8	cD	193	PRO	C-N-CA	-5.09	108.98	121.70
32	i3	107	ASP	CB-CG-OD2	5.09	122.88	118.30
32	iC	13	ASP	CB-CG-OD2	5.09	122.88	118.30
32	e5	25	ASP	CB-CG-OD2	5.08	122.88	118.30
32	c6	13	ASP	CB-CG-OD2	5.08	122.88	118.30
32	mC	13	ASP	CB-CG-OD2	5.08	122.88	118.30
18	O1	192	LEU	CB-CG-CD2	5.08	119.64	111.00
31	j3	116	ASP	CB-CG-OD2	5.08	122.88	118.30
32	i6	144	ASP	CB-CG-OD2	5.08	122.88	118.30
32	c7	13	ASP	CB-CG-OD2	5.08	122.88	118.30
32	eC	25	ASP	CB-CG-OD2	5.08	122.88	118.30
32	mH	13	ASP	CB-CG-OD2	5.08	122.88	118.30
32	g3	13	ASP	CB-CG-OD2	5.08	122.87	118.30
31	h8	155	ASP	CB-CG-OD2	5.08	122.87	118.30
5	3F	37	PHE	CE1-CZ-CE2	-5.08	110.86	120.00
32	mJ	13	ASP	CB-CG-OD2	5.08	122.87	118.30
32	i9	107	ASP	CB-CG-OD2	5.08	122.87	118.30
32	kH	144	ASP	CB-CG-OD2	5.08	122.87	118.30
32	mI	13	ASP	CB-CG-OD2	5.08	122.87	118.30
32	iJ	13	ASP	CB-CG-OD2	5.08	122.87	118.30
1	BC	52	ARG	NE-CZ-NH1	5.08	122.84	120.30
32	m2	13	ASP	CB-CG-OD2	5.08	122.87	118.30
32	m6	13	ASP	CB-CG-OD2	5.08	122.87	118.30
1	B9	52	ARG	NE-CZ-NH1	5.08	122.84	120.30
32	k3	144	ASP	CB-CG-OD2	5.07	122.87	118.30
32	iA	144	ASP	CB-CG-OD2	5.07	122.87	118.30
32	k3	25	ASP	CB-CG-OD2	5.07	122.86	118.30
5	3K	37	PHE	CE1-CZ-CE2	-5.07	110.87	120.00
31	j5	108	ASP	CB-CG-OD2	5.07	122.86	118.30
32	i8	107	ASP	CB-CG-OD2	5.07	122.86	118.30
32	cC	13	ASP	CB-CG-OD2	5.07	122.86	118.30
4	IK	84	ASP	CB-CG-OD2	-5.07	113.74	118.30
32	e2	13	ASP	CB-CG-OD2	5.07	122.86	118.30
32	kJ	144	ASP	CB-CG-OD2	5.07	122.86	118.30
32	e2	25	ASP	CB-CG-OD2	5.07	122.86	118.30
31	h2	155	ASP	CB-CG-OD2	5.07	122.86	118.30
32	c9	13	ASP	CB-CG-OD2	5.07	122.86	118.30
32	eA	25	ASP	CB-CG-OD2	5.07	122.86	118.30
32	eJ	25	ASP	CB-CG-OD2	5.07	122.86	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	c2	13	ASP	CB-CG-OD2	5.06	122.85	118.30
32	m5	13	ASP	CB-CG-OD2	5.06	122.85	118.30
32	i5	107	ASP	CB-CG-OD2	5.06	122.85	118.30
32	cA	13	ASP	CB-CG-OD2	5.06	122.85	118.30
32	iJ	107	ASP	CB-CG-OD2	5.06	122.85	118.30
5	b4	66	LEU	CA-CB-CG	5.06	126.93	115.30
5	bB	66	LEU	CA-CB-CG	5.06	126.93	115.30
31	h9	155	ASP	CB-CG-OD2	5.05	122.85	118.30
32	k9	144	ASP	CB-CG-OD2	5.05	122.85	118.30
31	h6	155	ASP	CB-CG-OD2	5.05	122.85	118.30
32	i7	13	ASP	CB-CG-OD2	5.05	122.85	118.30
31	hJ	155	ASP	CB-CG-OD2	5.05	122.85	118.30
32	i5	13	ASP	CB-CG-OD2	5.05	122.84	118.30
32	iJ	144	ASP	CB-CG-OD2	5.05	122.84	118.30
32	mA	13	ASP	CB-CG-OD2	5.05	122.84	118.30
31	hC	155	ASP	CB-CG-OD2	5.05	122.84	118.30
32	c3	13	ASP	CB-CG-OD2	5.04	122.84	118.30
32	i2	13	ASP	CB-CG-OD2	5.04	122.84	118.30
31	bI	155	ASP	CB-CG-OD2	5.04	122.84	118.30
31	h7	155	ASP	CB-CG-OD2	5.04	122.84	118.30
6	AE	186	LEU	CB-CG-CD2	5.04	119.57	111.00
23	U1	109	GLU	CA-CB-CG	5.04	124.48	113.40
1	B7	52	ARG	NE-CZ-NH1	5.04	122.82	120.30
32	i7	107	ASP	CB-CG-OD2	5.03	122.83	118.30
31	hH	155	ASP	CB-CG-OD2	5.03	122.82	118.30
31	h3	155	ASP	CB-CG-OD2	5.02	122.82	118.30
31	hI	155	ASP	CB-CG-OD2	5.02	122.82	118.30
31	hA	155	ASP	CB-CG-OD2	5.02	122.82	118.30
23	UD	109	GLU	CA-CB-CG	5.01	124.43	113.40
23	UE	109	GLU	CA-CB-CG	5.01	124.43	113.40
1	B6	52	ARG	NE-CZ-NH1	5.01	122.81	120.30
32	k7	144	ASP	CB-CG-OD2	5.01	122.81	118.30
31	h5	155	ASP	CB-CG-OD2	5.01	122.81	118.30
6	AD	186	LEU	CB-CG-CD2	5.01	119.52	111.00
9	dD	111	TRP	N-CA-CB	-5.01	101.58	110.60
9	dE	111	TRP	N-CA-CB	-5.00	101.59	110.60

There are no chirality outliers.

All (317) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
5	3F	37	PHE	Sidechain

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Mol	Chain	Res	Type	Group
5	3K	37	PHE	Sidechain
6	A1	190	HIS	Peptide
6	A1	31	GLY	Peptide
6	A1	57	PRO	Peptide
6	A1	81	ALA	Peptide
6	AD	190	HIS	Peptide
6	AD	31	GLY	Peptide
6	AD	57	PRO	Peptide
6	AD	81	ALA	Peptide
6	AE	190	HIS	Peptide
6	AE	31	GLY	Peptide
6	AE	57	PRO	Peptide
6	AE	81	ALA	Peptide
7	B1	300	GLU	Peptide
7	B1	483	GLU	Peptide
7	B1	492	TRP	Mainchain
7	B1	62	VAL	Peptide
7	B1	63	MET	Peptide
2	B4	481	LYS	Peptide
2	B4	536	SER	Peptide
2	B4	732	ASN	Peptide
2	B4	733	LYS	Mainchain
2	B4	80	SER	Mainchain
1	B5	196	GLN	Mainchain
1	B8	196	GLN	Mainchain
2	BB	481	LYS	Peptide
2	BB	536	SER	Peptide
2	BB	732	ASN	Peptide
2	BB	733	LYS	Mainchain
2	BB	80	SER	Mainchain
1	BC	198	ILE	Peptide
7	BD	300	GLU	Peptide
7	BD	483	GLU	Peptide
7	BD	492	TRP	Mainchain
7	BD	62	VAL	Peptide
7	BD	63	MET	Peptide
7	BE	300	GLU	Peptide
7	BE	483	GLU	Peptide
7	BE	492	TRP	Mainchain
7	BE	62	VAL	Peptide
7	BE	63	MET	Peptide
28	BG	128	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	BH	196	GLN	Mainchain
1	BJ	196	GLN	Mainchain
28	BL	128	ALA	Peptide
2	C4	481	LYS	Peptide
2	C4	536	SER	Peptide
2	C4	732	ASN	Peptide
2	C4	772	VAL	Mainchain
2	CB	481	LYS	Peptide
2	CB	536	SER	Peptide
2	CB	732	ASN	Peptide
2	CB	772	VAL	Mainchain
9	D1	222	LEU	Peptide
9	D1	304	ARG	Peptide
9	DD	222	LEU	Peptide
9	DD	304	ARG	Peptide
9	DE	222	LEU	Peptide
9	DE	304	ARG	Peptide
28	EF	128	ALA	Peptide
28	EK	128	ALA	Peptide
3	GG	109	VAL	Peptide
3	GL	109	VAL	Peptide
12	H1	25	TRP	Peptide
12	HD	25	TRP	Peptide
12	HE	25	TRP	Peptide
18	O1	108	GLN	Peptide
18	O1	110	ARG	Peptide
18	O1	121	LEU	Peptide
18	O1	126	LYS	Peptide
18	O1	160	GLY	Peptide
18	O1	195	GLY	Peptide
18	O1	35	TYR	Peptide
18	O1	68	ILE	Peptide
18	O1	71	LEU	Peptide
18	O1	72	CYS	Peptide
18	O1	73	LEU	Peptide
18	O1	75	PRO	Peptide
18	O1	77	SER	Peptide
18	O1	78	TYR	Peptide
18	O1	87	LYS	Peptide
18	O1	88	ARG	Peptide
18	OD	108	GLN	Peptide
18	OD	110	ARG	Peptide

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Mol	Chain	Res	Type	Group
18	OD	121	LEU	Peptide
18	OD	126	LYS	Peptide
18	OD	160	GLY	Peptide
18	OD	195	GLY	Peptide
18	OD	35	TYR	Peptide
18	OD	68	ILE	Peptide
18	OD	71	LEU	Peptide
18	OD	72	CYS	Peptide
18	OD	73	LEU	Peptide
18	OD	75	PRO	Peptide
18	OD	77	SER	Peptide
18	OD	78	TYR	Peptide
18	OD	87	LYS	Peptide
18	OD	88	ARG	Peptide
18	OE	108	GLN	Peptide
18	OE	110	ARG	Peptide
18	OE	121	LEU	Peptide
18	OE	126	LYS	Peptide
18	OE	160	GLY	Peptide
18	OE	195	GLY	Peptide
18	OE	35	TYR	Peptide
18	OE	68	ILE	Peptide
18	OE	71	LEU	Peptide
18	OE	72	CYS	Peptide
18	OE	73	LEU	Peptide
18	OE	75	PRO	Peptide
18	OE	77	SER	Peptide
18	OE	78	TYR	Peptide
18	OE	87	LYS	Peptide
18	OE	88	ARG	Peptide
19	Q1	65	LYS	Peptide
19	Q1	69	ILE	Peptide
19	Q1	93	LEU	Peptide
19	QD	65	LYS	Peptide
19	QD	69	ILE	Peptide
19	QD	93	LEU	Peptide
19	QE	65	LYS	Peptide
19	QE	69	ILE	Peptide
19	QE	93	LEU	Peptide
29	QG	72	ASN	Peptide
29	QL	72	ASN	Peptide
23	U1	70	PHE	Peptide

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Mol	Chain	Res	Type	Group
23	U1	89	VAL	Peptide
5	U4	55	LEU	Peptide
5	UB	55	LEU	Peptide
23	UD	70	PHE	Peptide
23	UD	89	VAL	Peptide
23	UE	70	PHE	Peptide
23	UE	89	VAL	Peptide
4	UG	102	SER	Peptide
4	UL	102	SER	Peptide
24	V1	62	CYS	Peptide
24	VD	62	CYS	Peptide
24	VE	62	CYS	Peptide
4	WG	70	GLY	Peptide
4	WL	70	GLY	Peptide
6	a1	172	LEU	Peptide
6	a1	190	HIS	Peptide
6	a1	31	GLY	Peptide
6	a1	57	PRO	Peptide
6	a1	64	ARG	Peptide
4	a4	132	ALA	Peptide
4	a4	3	ASP	Peptide
4	aB	132	ALA	Peptide
4	aB	3	ASP	Peptide
6	aD	172	LEU	Peptide
6	aD	190	HIS	Peptide
6	aD	31	GLY	Peptide
6	aD	57	PRO	Peptide
6	aD	64	ARG	Peptide
6	aE	172	LEU	Peptide
6	aE	190	HIS	Peptide
6	aE	31	GLY	Peptide
6	aE	57	PRO	Peptide
6	aE	64	ARG	Peptide
7	b1	240	SER	Peptide
7	b1	483	GLU	Peptide
7	b1	495	PHE	Peptide
7	b1	62	VAL	Peptide
7	b1	63	MET	Peptide
7	bD	240	SER	Peptide
7	bD	483	GLU	Peptide
7	bD	495	PHE	Peptide
7	bD	62	VAL	Peptide

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Mol	Chain	Res	Type	Group
7	bD	63	MET	Peptide
7	bE	240	SER	Peptide
7	bE	483	GLU	Peptide
7	bE	495	PHE	Peptide
7	bE	62	VAL	Peptide
7	bE	63	MET	Peptide
32	c2	109	CYS	Peptide
32	c3	109	CYS	Peptide
32	c5	109	CYS	Peptide
32	c6	109	CYS	Peptide
32	c7	109	CYS	Peptide
32	c8	109	CYS	Peptide
32	c9	109	CYS	Peptide
32	cA	109	CYS	Peptide
32	cC	109	CYS	Peptide
8	cE	254	SER	Mainchain
32	cH	109	CYS	Peptide
32	cI	109	CYS	Peptide
32	cJ	109	CYS	Peptide
9	d1	102	THR	Peptide
9	d1	304	ARG	Peptide
9	dD	102	THR	Peptide
9	dD	304	ARG	Peptide
9	dE	102	THR	Peptide
9	dE	304	ARG	Peptide
32	e2	109	CYS	Peptide
32	e3	109	CYS	Peptide
32	e5	109	CYS	Peptide
32	e6	109	CYS	Peptide
32	e7	109	CYS	Peptide
32	e8	109	CYS	Peptide
32	e9	109	CYS	Peptide
32	eA	109	CYS	Peptide
32	eC	109	CYS	Peptide
32	eH	109	CYS	Peptide
32	eI	109	CYS	Peptide
32	eJ	109	CYS	Peptide
32	g2	109	CYS	Peptide
32	g3	109	CYS	Peptide
32	g5	109	CYS	Peptide
32	g6	109	CYS	Peptide
32	g7	109	CYS	Peptide

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Mol	Chain	Res	Type	Group
32	g8	109	CYS	Peptide
32	g9	109	CYS	Peptide
32	gA	109	CYS	Peptide
32	gC	109	CYS	Peptide
29	gF	72	ASN	Peptide
32	gH	109	CYS	Peptide
32	gI	109	CYS	Peptide
32	gJ	109	CYS	Peptide
29	gK	72	ASN	Peptide
12	h1	62	TRP	Peptide
12	hD	62	TRP	Peptide
12	hE	62	TRP	Peptide
13	i1	27	ASP	Peptide
13	i1	33	LYS	Mainchain
13	iD	27	ASP	Peptide
13	iD	33	LYS	Mainchain
13	iE	27	ASP	Peptide
13	iE	33	LYS	Mainchain
14	j1	3	GLY	Peptide
14	jD	3	GLY	Peptide
14	jE	3	GLY	Peptide
32	k2	109	CYS	Peptide
32	k3	109	CYS	Peptide
32	k5	109	CYS	Peptide
32	k6	109	CYS	Peptide
32	k7	109	CYS	Peptide
32	k8	109	CYS	Peptide
32	k9	109	CYS	Peptide
32	kA	109	CYS	Peptide
32	kC	109	CYS	Peptide
32	kH	109	CYS	Peptide
32	kI	109	CYS	Peptide
32	kJ	109	CYS	Peptide
18	o1	108	GLN	Peptide
18	o1	110	ARG	Peptide
18	o1	121	LEU	Peptide
18	o1	126	LYS	Peptide
18	o1	160	GLY	Peptide
18	o1	195	GLY	Peptide
18	o1	35	TYR	Peptide
18	o1	68	ILE	Peptide
18	o1	71	LEU	Peptide

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Mol	Chain	Res	Type	Group
18	o1	72	CYS	Peptide
18	o1	73	LEU	Peptide
18	o1	75	PRO	Peptide
18	o1	77	SER	Peptide
18	o1	78	TYR	Peptide
18	o1	87	LYS	Peptide
18	o1	88	ARG	Peptide
18	oD	108	GLN	Peptide
18	oD	110	ARG	Peptide
18	oD	121	LEU	Peptide
18	oD	126	LYS	Peptide
18	oD	160	GLY	Peptide
18	oD	195	GLY	Peptide
18	oD	35	TYR	Peptide
18	oD	68	ILE	Peptide
18	oD	71	LEU	Peptide
18	oD	72	CYS	Peptide
18	oD	73	LEU	Peptide
18	oD	75	PRO	Peptide
18	oD	77	SER	Peptide
18	oD	78	TYR	Peptide
18	oD	87	LYS	Peptide
18	oD	88	ARG	Peptide
18	oE	108	GLN	Peptide
18	oE	110	ARG	Peptide
18	oE	121	LEU	Peptide
18	oE	126	LYS	Peptide
18	oE	160	GLY	Peptide
18	oE	195	GLY	Peptide
18	oE	35	TYR	Peptide
18	oE	68	ILE	Peptide
18	oE	71	LEU	Peptide
18	oE	72	CYS	Peptide
18	oE	73	LEU	Peptide
18	oE	75	PRO	Peptide
18	oE	77	SER	Peptide
18	oE	78	TYR	Peptide
18	oE	87	LYS	Peptide
18	oE	88	ARG	Peptide
19	q1	65	LYS	Peptide
19	q1	69	ILE	Peptide
19	q1	93	LEU	Peptide

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Mol	Chain	Res	Type	Group
19	qD	65	LYS	Peptide
19	qD	69	ILE	Peptide
19	qD	93	LEU	Peptide
19	qE	65	LYS	Peptide
19	qE	69	ILE	Peptide
19	qE	93	LEU	Peptide
3	s4	74	GLY	Peptide
3	sB	74	GLY	Peptide
23	u1	70	PHE	Peptide
23	u1	89	VAL	Peptide
23	uD	70	PHE	Peptide
23	uD	89	VAL	Peptide
23	uE	70	PHE	Peptide
23	uE	89	VAL	Peptide
24	v1	154	GLN	Peptide
24	v1	62	CYS	Peptide
24	vD	154	GLN	Peptide
24	vD	62	CYS	Peptide
24	vE	154	GLN	Peptide
24	vE	62	CYS	Peptide
4	x4	70	GLY	Peptide
4	xB	70	GLY	Peptide

5.2 Too-close contacts [i](#)

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

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B2	238/254 (94%)	215 (90%)	14 (6%)	9 (4%)	3	25
1	B3	238/254 (94%)	218 (92%)	10 (4%)	10 (4%)	3	23

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B5	238/254 (94%)	215 (90%)	13 (6%)	10 (4%)	3	23
1	B6	238/254 (94%)	216 (91%)	16 (7%)	6 (2%)	5	34
1	B7	238/254 (94%)	214 (90%)	12 (5%)	12 (5%)	2	19
1	B8	238/254 (94%)	215 (90%)	13 (6%)	10 (4%)	3	23
1	B9	238/254 (94%)	213 (90%)	18 (8%)	7 (3%)	4	31
1	BA	238/254 (94%)	223 (94%)	8 (3%)	7 (3%)	4	31
1	BC	238/254 (94%)	217 (91%)	10 (4%)	11 (5%)	2	21
1	BH	238/254 (94%)	215 (90%)	13 (6%)	10 (4%)	3	23
1	BI	238/254 (94%)	212 (89%)	17 (7%)	9 (4%)	3	25
1	BJ	238/254 (94%)	215 (90%)	13 (6%)	10 (4%)	3	23
2	B4	884/914 (97%)	806 (91%)	70 (8%)	8 (1%)	17	56
2	BB	884/914 (97%)	806 (91%)	68 (8%)	10 (1%)	14	52
2	C4	862/914 (94%)	799 (93%)	61 (7%)	2 (0%)	47	81
2	CB	862/914 (94%)	798 (93%)	62 (7%)	2 (0%)	47	81
3	4G	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	4L	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	6G	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	6L	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
3	9F	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
3	9K	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
3	AG	158/161 (98%)	150 (95%)	8 (5%)	0	100	100
3	AL	158/161 (98%)	150 (95%)	8 (5%)	0	100	100
3	GG	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
3	GL	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
3	IG	158/161 (98%)	149 (94%)	9 (6%)	0	100	100
3	IL	158/161 (98%)	149 (94%)	8 (5%)	1 (1%)	25	64
3	JF	158/161 (98%)	150 (95%)	8 (5%)	0	100	100
3	JK	158/161 (98%)	150 (95%)	8 (5%)	0	100	100
3	KG	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	KL	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	LF	158/161 (98%)	152 (96%)	6 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	LK	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	NG	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
3	NL	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
3	O4	158/161 (98%)	150 (95%)	8 (5%)	0	100	100
3	OB	158/161 (98%)	150 (95%)	8 (5%)	0	100	100
3	PG	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
3	PL	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
3	Q4	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
3	QB	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
3	RG	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
3	RL	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
3	S4	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
3	SB	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
3	TG	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	TL	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	V4	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
3	VB	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
3	X4	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	XB	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	XF	158/161 (98%)	156 (99%)	1 (1%)	1 (1%)	25	64
3	XK	158/161 (98%)	156 (99%)	1 (1%)	1 (1%)	25	64
3	Z4	158/161 (98%)	148 (94%)	10 (6%)	0	100	100
3	ZB	158/161 (98%)	148 (94%)	10 (6%)	0	100	100
3	ZF	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
3	ZK	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
3	bF	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
3	bK	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
3	dF	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
3	dK	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
3	fF	158/161 (98%)	150 (95%)	8 (5%)	0	100	100
3	fK	158/161 (98%)	151 (96%)	7 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	iF	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
3	iK	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
3	kF	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	kK	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	o4	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
3	oB	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
3	q4	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	qB	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
3	s4	158/161 (98%)	152 (96%)	5 (3%)	1 (1%)	25	64
3	sB	158/161 (98%)	152 (96%)	5 (3%)	1 (1%)	25	64
3	u4	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
3	uB	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
3	w4	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
3	wB	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
3	y4	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
3	yB	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
4	1G	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
4	1L	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
4	5G	159/161 (99%)	148 (93%)	11 (7%)	0	100	100
4	5L	159/161 (99%)	148 (93%)	11 (7%)	0	100	100
4	7G	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
4	7L	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
4	HG	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
4	HL	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
4	IF	159/161 (99%)	149 (94%)	9 (6%)	1 (1%)	25	64
4	IK	159/161 (99%)	148 (93%)	10 (6%)	1 (1%)	25	64
4	JG	159/161 (99%)	154 (97%)	5 (3%)	0	100	100
4	JL	159/161 (99%)	154 (97%)	5 (3%)	0	100	100
4	KF	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
4	KK	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
4	LG	159/161 (99%)	152 (96%)	7 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	LL	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
4	MF	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
4	MG	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
4	MK	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
4	ML	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
4	OG	159/161 (99%)	154 (97%)	5 (3%)	0	100	100
4	OL	159/161 (99%)	154 (97%)	5 (3%)	0	100	100
4	P4	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
4	PB	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
4	R4	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
4	RB	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
4	SG	159/161 (99%)	157 (99%)	2 (1%)	0	100	100
4	SL	159/161 (99%)	157 (99%)	2 (1%)	0	100	100
4	T4	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
4	TB	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
4	UG	159/161 (99%)	156 (98%)	3 (2%)	0	100	100
4	UL	159/161 (99%)	156 (98%)	3 (2%)	0	100	100
4	W4	159/161 (99%)	154 (97%)	5 (3%)	0	100	100
4	WB	159/161 (99%)	153 (96%)	5 (3%)	1 (1%)	25	64
4	WG	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
4	WL	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
4	Y4	159/161 (99%)	154 (97%)	5 (3%)	0	100	100
4	YB	159/161 (99%)	154 (97%)	5 (3%)	0	100	100
4	YF	159/161 (99%)	153 (96%)	5 (3%)	1 (1%)	25	64
4	YK	159/161 (99%)	153 (96%)	5 (3%)	1 (1%)	25	64
4	a4	158/161 (98%)	141 (89%)	13 (8%)	4 (2%)	5	34
4	aB	158/161 (98%)	139 (88%)	12 (8%)	7 (4%)	2	21
4	aF	159/161 (99%)	150 (94%)	8 (5%)	1 (1%)	25	64
4	aK	159/161 (99%)	150 (94%)	8 (5%)	1 (1%)	25	64
4	cF	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
4	cK	159/161 (99%)	151 (95%)	8 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	eF	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
4	eK	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
4	hF	159/161 (99%)	154 (97%)	5 (3%)	0	100	100
4	hK	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
4	jF	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
4	jK	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
4	lF	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
4	lK	159/161 (99%)	155 (98%)	4 (2%)	0	100	100
4	nF	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
4	nK	159/161 (99%)	151 (95%)	8 (5%)	0	100	100
4	p4	159/161 (99%)	154 (97%)	5 (3%)	0	100	100
4	pB	159/161 (99%)	154 (97%)	5 (3%)	0	100	100
4	r4	159/161 (99%)	149 (94%)	10 (6%)	0	100	100
4	rB	159/161 (99%)	149 (94%)	10 (6%)	0	100	100
4	t4	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
4	tB	159/161 (99%)	152 (96%)	7 (4%)	0	100	100
4	v4	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
4	vB	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
4	x4	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
4	xB	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
4	z4	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
4	zB	159/161 (99%)	153 (96%)	6 (4%)	0	100	100
5	2G	63/67 (94%)	54 (86%)	9 (14%)	0	100	100
5	2L	63/67 (94%)	54 (86%)	9 (14%)	0	100	100
5	3F	63/67 (94%)	56 (89%)	7 (11%)	0	100	100
5	3K	63/67 (94%)	56 (89%)	7 (11%)	0	100	100
5	8G	63/67 (94%)	56 (89%)	7 (11%)	0	100	100
5	8L	63/67 (94%)	56 (89%)	7 (11%)	0	100	100
5	NF	64/67 (96%)	54 (84%)	10 (16%)	0	100	100
5	NK	64/67 (96%)	54 (84%)	10 (16%)	0	100	100
5	U4	63/67 (94%)	61 (97%)	2 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	UB	63/67 (94%)	61 (97%)	2 (3%)	0	100	100
5	b4	63/67 (94%)	58 (92%)	5 (8%)	0	100	100
5	bB	63/67 (94%)	58 (92%)	5 (8%)	0	100	100
6	A1	332/359 (92%)	300 (90%)	32 (10%)	0	100	100
6	AD	332/359 (92%)	300 (90%)	32 (10%)	0	100	100
6	AE	332/359 (92%)	300 (90%)	32 (10%)	0	100	100
6	a1	332/359 (92%)	305 (92%)	26 (8%)	1 (0%)	41	75
6	aD	332/359 (92%)	305 (92%)	26 (8%)	1 (0%)	41	75
6	aE	332/359 (92%)	305 (92%)	26 (8%)	1 (0%)	41	75
7	B1	500/509 (98%)	454 (91%)	44 (9%)	2 (0%)	34	72
7	BD	500/509 (98%)	454 (91%)	44 (9%)	2 (0%)	34	72
7	BE	500/509 (98%)	454 (91%)	44 (9%)	2 (0%)	34	72
7	b1	502/509 (99%)	450 (90%)	48 (10%)	4 (1%)	19	58
7	bD	502/509 (99%)	450 (90%)	48 (10%)	4 (1%)	19	58
7	bE	502/509 (99%)	450 (90%)	48 (10%)	4 (1%)	19	58
8	C1	448/469 (96%)	408 (91%)	37 (8%)	3 (1%)	22	61
8	CD	448/469 (96%)	411 (92%)	36 (8%)	1 (0%)	47	81
8	CE	448/469 (96%)	411 (92%)	36 (8%)	1 (0%)	47	81
8	c1	451/469 (96%)	390 (86%)	49 (11%)	12 (3%)	5	33
8	cD	451/469 (96%)	384 (85%)	56 (12%)	11 (2%)	6	35
8	cE	451/469 (96%)	392 (87%)	49 (11%)	10 (2%)	6	37
9	D1	339/352 (96%)	302 (89%)	36 (11%)	1 (0%)	41	75
9	DD	339/352 (96%)	302 (89%)	36 (11%)	1 (0%)	41	75
9	DE	339/352 (96%)	302 (89%)	36 (11%)	1 (0%)	41	75
9	d1	339/352 (96%)	300 (88%)	34 (10%)	5 (2%)	10	45
9	dD	339/352 (96%)	301 (89%)	33 (10%)	5 (2%)	10	45
9	dE	339/352 (96%)	301 (89%)	33 (10%)	5 (2%)	10	45
10	E1	76/82 (93%)	67 (88%)	9 (12%)	0	100	100
10	ED	76/82 (93%)	67 (88%)	9 (12%)	0	100	100
10	EE	76/82 (93%)	66 (87%)	10 (13%)	0	100	100
10	e1	76/82 (93%)	69 (91%)	7 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
10	eD	76/82 (93%)	69 (91%)	7 (9%)	0	100	100
10	eE	76/82 (93%)	69 (91%)	7 (9%)	0	100	100
11	F1	33/44 (75%)	31 (94%)	2 (6%)	0	100	100
11	FD	33/44 (75%)	31 (94%)	2 (6%)	0	100	100
11	FE	33/44 (75%)	31 (94%)	2 (6%)	0	100	100
11	f1	33/44 (75%)	31 (94%)	2 (6%)	0	100	100
11	fD	35/44 (80%)	33 (94%)	2 (6%)	0	100	100
11	fE	33/44 (75%)	30 (91%)	2 (6%)	1 (3%)	4	30
12	H1	62/67 (92%)	55 (89%)	7 (11%)	0	100	100
12	HD	62/67 (92%)	55 (89%)	7 (11%)	0	100	100
12	HE	62/67 (92%)	54 (87%)	8 (13%)	0	100	100
12	h1	62/67 (92%)	51 (82%)	11 (18%)	0	100	100
12	hD	62/67 (92%)	51 (82%)	11 (18%)	0	100	100
12	hE	62/67 (92%)	51 (82%)	11 (18%)	0	100	100
13	I1	34/38 (90%)	27 (79%)	1 (3%)	6 (18%)	0	2
13	ID	34/38 (90%)	27 (79%)	1 (3%)	6 (18%)	0	2
13	IE	34/38 (90%)	27 (79%)	1 (3%)	6 (18%)	0	2
13	i1	34/38 (90%)	29 (85%)	4 (12%)	1 (3%)	4	31
13	iD	34/38 (90%)	29 (85%)	4 (12%)	1 (3%)	4	31
13	iE	34/38 (90%)	29 (85%)	4 (12%)	1 (3%)	4	31
14	J1	35/39 (90%)	35 (100%)	0	0	100	100
14	JD	35/39 (90%)	35 (100%)	0	0	100	100
14	JE	35/39 (90%)	35 (100%)	0	0	100	100
14	j1	37/39 (95%)	34 (92%)	3 (8%)	0	100	100
14	jD	37/39 (95%)	34 (92%)	3 (8%)	0	100	100
14	jE	37/39 (95%)	34 (92%)	3 (8%)	0	100	100
15	K1	34/45 (76%)	26 (76%)	8 (24%)	0	100	100
15	KD	34/45 (76%)	26 (76%)	8 (24%)	0	100	100
15	KE	34/45 (76%)	26 (76%)	8 (24%)	0	100	100
15	k1	33/45 (73%)	27 (82%)	2 (6%)	4 (12%)	0	5
15	kD	33/45 (73%)	27 (82%)	2 (6%)	4 (12%)	0	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	kE	33/45 (73%)	27 (82%)	2 (6%)	4 (12%)	0	5
16	L1	36/39 (92%)	33 (92%)	3 (8%)	0	100	100
16	LD	36/39 (92%)	33 (92%)	3 (8%)	0	100	100
16	LE	36/39 (92%)	33 (92%)	3 (8%)	0	100	100
16	l1	36/39 (92%)	33 (92%)	3 (8%)	0	100	100
16	lD	36/39 (92%)	33 (92%)	3 (8%)	0	100	100
16	lE	36/39 (92%)	33 (92%)	3 (8%)	0	100	100
17	M1	34/37 (92%)	26 (76%)	8 (24%)	0	100	100
17	MD	34/37 (92%)	26 (76%)	8 (24%)	0	100	100
17	ME	34/37 (92%)	26 (76%)	8 (24%)	0	100	100
17	m1	34/37 (92%)	27 (79%)	7 (21%)	0	100	100
17	mD	34/37 (92%)	27 (79%)	7 (21%)	0	100	100
17	mE	34/37 (92%)	27 (79%)	7 (21%)	0	100	100
18	O1	241/278 (87%)	163 (68%)	73 (30%)	5 (2%)	7	38
18	OD	241/278 (87%)	163 (68%)	73 (30%)	5 (2%)	7	38
18	OE	241/278 (87%)	163 (68%)	73 (30%)	5 (2%)	7	38
18	o1	241/278 (87%)	164 (68%)	72 (30%)	5 (2%)	7	38
18	oD	241/278 (87%)	164 (68%)	72 (30%)	5 (2%)	7	38
18	oE	241/278 (87%)	164 (68%)	72 (30%)	5 (2%)	7	38
19	Q1	117/164 (71%)	104 (89%)	13 (11%)	0	100	100
19	QD	117/164 (71%)	104 (89%)	13 (11%)	0	100	100
19	QE	117/164 (71%)	104 (89%)	13 (11%)	0	100	100
19	q1	117/164 (71%)	104 (89%)	13 (11%)	0	100	100
19	qD	117/164 (71%)	103 (88%)	14 (12%)	0	100	100
19	qE	117/164 (71%)	104 (89%)	13 (11%)	0	100	100
20	R1	33/39 (85%)	30 (91%)	3 (9%)	0	100	100
20	RD	33/39 (85%)	30 (91%)	3 (9%)	0	100	100
20	RE	33/39 (85%)	30 (91%)	3 (9%)	0	100	100
20	r1	33/39 (85%)	30 (91%)	3 (9%)	0	100	100
20	rD	33/39 (85%)	30 (91%)	3 (9%)	0	100	100
20	rE	33/39 (85%)	30 (91%)	3 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
22	T1	27/31 (87%)	23 (85%)	4 (15%)	0	100	100
22	TD	27/31 (87%)	23 (85%)	4 (15%)	0	100	100
22	TE	27/31 (87%)	23 (85%)	4 (15%)	0	100	100
22	t1	28/31 (90%)	27 (96%)	1 (4%)	0	100	100
22	tD	28/31 (90%)	27 (96%)	1 (4%)	0	100	100
22	tE	28/31 (90%)	27 (96%)	1 (4%)	0	100	100
23	U1	93/95 (98%)	83 (89%)	10 (11%)	0	100	100
23	UD	93/95 (98%)	83 (89%)	10 (11%)	0	100	100
23	UE	93/95 (98%)	83 (89%)	10 (11%)	0	100	100
23	u1	93/95 (98%)	83 (89%)	10 (11%)	0	100	100
23	uD	93/95 (98%)	83 (89%)	10 (11%)	0	100	100
23	uE	93/95 (98%)	83 (89%)	10 (11%)	0	100	100
24	V1	133/163 (82%)	123 (92%)	10 (8%)	0	100	100
24	VD	133/163 (82%)	123 (92%)	10 (8%)	0	100	100
24	VE	133/163 (82%)	123 (92%)	10 (8%)	0	100	100
24	v1	133/163 (82%)	121 (91%)	12 (9%)	0	100	100
24	vD	133/163 (82%)	121 (91%)	12 (9%)	0	100	100
24	vE	133/163 (82%)	121 (91%)	12 (9%)	0	100	100
25	X1	38/48 (79%)	36 (95%)	2 (5%)	0	100	100
25	XD	38/48 (79%)	36 (95%)	2 (5%)	0	100	100
25	XE	38/48 (79%)	36 (95%)	2 (5%)	0	100	100
25	x1	38/48 (79%)	36 (95%)	2 (5%)	0	100	100
25	xD	38/48 (79%)	36 (95%)	2 (5%)	0	100	100
25	xE	38/48 (79%)	36 (95%)	2 (5%)	0	100	100
26	Y1	30/43 (70%)	28 (93%)	2 (7%)	0	100	100
26	YD	30/43 (70%)	28 (93%)	2 (7%)	0	100	100
26	YE	30/43 (70%)	28 (93%)	2 (7%)	0	100	100
26	y1	30/43 (70%)	27 (90%)	2 (7%)	1 (3%)	4	28
26	yD	30/43 (70%)	27 (90%)	2 (7%)	1 (3%)	4	28
26	yE	30/43 (70%)	27 (90%)	2 (7%)	1 (3%)	4	28
27	Z1	58/63 (92%)	56 (97%)	2 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
27	ZD	58/63 (92%)	56 (97%)	2 (3%)	0	100	100
27	ZE	58/63 (92%)	56 (97%)	2 (3%)	0	100	100
27	z1	58/63 (92%)	56 (97%)	2 (3%)	0	100	100
27	zD	58/63 (92%)	56 (97%)	2 (3%)	0	100	100
27	zE	58/63 (92%)	56 (97%)	2 (3%)	0	100	100
28	BG	44/150 (29%)	32 (73%)	7 (16%)	5 (11%)	0	6
28	BL	44/150 (29%)	32 (73%)	7 (16%)	5 (11%)	0	6
28	EF	44/150 (29%)	35 (80%)	7 (16%)	2 (4%)	2	21
28	EK	44/150 (29%)	35 (80%)	7 (16%)	2 (4%)	2	21
29	QG	167/169 (99%)	151 (90%)	12 (7%)	4 (2%)	6	35
29	QL	167/169 (99%)	151 (90%)	12 (7%)	4 (2%)	6	35
29	gF	167/169 (99%)	151 (90%)	14 (8%)	2 (1%)	13	50
29	gK	167/169 (99%)	151 (90%)	14 (8%)	2 (1%)	13	50
30	VG	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
30	VL	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
30	mF	158/161 (98%)	150 (95%)	8 (5%)	0	100	100
30	mK	158/161 (98%)	150 (95%)	8 (5%)	0	100	100
31	b2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	b3	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	b5	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	b6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	b7	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	b8	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	b9	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	bA	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	bC	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	bH	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	bI	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	bJ	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	d2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	d3	160/162 (99%)	159 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
31	d5	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	d6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	d7	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	d8	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	d9	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	dA	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	dC	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	dH	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	dI	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	dJ	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	f2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	f3	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	f5	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	f6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	f7	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	f8	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	f9	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	fA	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	fC	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	fH	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	fI	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	fJ	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	h2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	h3	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	h5	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	h6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	h7	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	h8	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	h9	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	hA	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	hC	160/162 (99%)	159 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
31	hH	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	hI	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	hJ	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	j2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	j3	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	j5	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	j6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	j7	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	j8	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	j9	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	jA	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	jC	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	jH	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	jI	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	jJ	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	l2	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	l3	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	l5	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	l6	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	l7	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	l8	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	l9	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	lA	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	lC	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	lH	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	lI	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
31	lJ	160/162 (99%)	159 (99%)	1 (1%)	0	100	100
32	c2	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	13	50
32	c3	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	13	50
32	c5	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	13	50
32	c6	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	13	50

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
32	c7	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	13	50
32	c8	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	13	50
32	c9	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	13	50
32	cA	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	13	50
32	cC	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	13	50
32	cH	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	13	50
32	cI	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	13	50
32	cJ	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	13	50
32	e2	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	e3	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	e5	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	e6	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	e7	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	e8	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	e9	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	eA	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	eC	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	eH	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	eI	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	eJ	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	g2	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	25	64
32	g3	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	25	64
32	g5	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	25	64
32	g6	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	25	64
32	g7	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	25	64
32	g8	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	25	64
32	g9	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	25	64
32	gA	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	25	64
32	gC	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	25	64
32	gH	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	25	64
32	gI	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	25	64

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
32	gJ	170/172 (99%)	167 (98%)	2 (1%)	1 (1%)	25	64
32	i2	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	i3	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	i5	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	i6	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	i7	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	i8	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	i9	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	iA	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	iC	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	iH	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	iI	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	iJ	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	k2	170/172 (99%)	169 (99%)	0	1 (1%)	25	64
32	k3	170/172 (99%)	169 (99%)	0	1 (1%)	25	64
32	k5	170/172 (99%)	169 (99%)	0	1 (1%)	25	64
32	k6	170/172 (99%)	169 (99%)	0	1 (1%)	25	64
32	k7	170/172 (99%)	169 (99%)	0	1 (1%)	25	64
32	k8	170/172 (99%)	169 (99%)	0	1 (1%)	25	64
32	k9	170/172 (99%)	169 (99%)	0	1 (1%)	25	64
32	kA	170/172 (99%)	169 (99%)	0	1 (1%)	25	64
32	kC	170/172 (99%)	169 (99%)	0	1 (1%)	25	64
32	kH	170/172 (99%)	169 (99%)	0	1 (1%)	25	64
32	kI	170/172 (99%)	169 (99%)	0	1 (1%)	25	64
32	kJ	170/172 (99%)	169 (99%)	0	1 (1%)	25	64
32	m2	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	m3	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	m5	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	m6	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	m7	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	m8	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
32	m9	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	mA	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	mC	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	mH	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	mI	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
32	mJ	170/172 (99%)	168 (99%)	1 (1%)	1 (1%)	25	64
All	All	69685/72752 (96%)	65802 (94%)	3473 (5%)	410 (1%)	29	64

All (410) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	BA	207	VAL
1	BA	208	PRO
1	BA	212	GLN
1	BA	213	PRO
1	BA	231	PRO
2	BB	116	TYR
2	BB	125	PHE
2	BB	130	SER
2	CB	80	SER
1	BC	194	PHE
1	BC	195	PRO
1	BC	199	TRP
1	BC	201	THR
1	BC	207	VAL
1	BC	208	PRO
1	BC	212	GLN
1	BC	213	PRO
1	BC	231	PRO
13	ID	26	ASN
13	ID	28	PRO
13	ID	32	PRO
18	OD	72	CYS
18	OD	88	ARG
18	OD	89	GLN
13	IE	26	ASN
13	IE	28	PRO
13	IE	32	PRO
18	OE	72	CYS
18	OE	88	ARG

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Mol	Chain	Res	Type
18	OE	89	GLN
28	EF	128	ALA
28	EF	135	PRO
4	IF	63	SER
28	BG	111	THR
28	BG	112	PRO
28	BG	135	PRO
29	QG	149	VAL
1	BH	195	PRO
1	BH	198	ILE
1	BH	205	ARG
1	BH	207	VAL
1	BH	208	PRO
1	BH	233	ASN
1	BI	195	PRO
1	BI	205	ARG
1	BI	213	PRO
1	BI	231	PRO
1	BJ	195	PRO
1	BJ	198	ILE
1	BJ	205	ARG
1	BJ	207	VAL
1	BJ	208	PRO
1	BJ	233	ASN
28	EK	128	ALA
28	EK	135	PRO
28	BL	111	THR
28	BL	112	PRO
28	BL	135	PRO
3	IL	30	VAL
29	QL	65	GLU
29	QL	149	VAL
13	I1	26	ASN
13	I1	28	PRO
13	I1	32	PRO
18	O1	72	CYS
18	O1	88	ARG
18	O1	89	GLN
7	b1	302	TRP
8	c1	135	GLY
8	c1	138	TRP
8	c1	252	ILE

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Mol	Chain	Res	Type
8	c1	267	SER
9	d1	104	TRP
9	d1	122	LEU
13	i1	34	ARG
15	k1	15	SER
15	k1	18	SER
15	k1	41	ALA
18	o1	72	CYS
18	o1	88	ARG
18	o1	89	GLN
32	c2	154	SER
1	B2	195	PRO
1	B2	205	ARG
1	B2	213	PRO
1	B2	231	PRO
32	c3	154	SER
1	B3	196	GLN
1	B3	207	VAL
1	B3	208	PRO
1	B3	212	GLN
1	B3	213	PRO
1	B3	231	PRO
4	a4	67	ARG
4	a4	68	PRO
4	a4	71	ASN
2	B4	116	TYR
2	B4	126	ASP
2	C4	80	SER
1	B5	195	PRO
1	B5	198	ILE
1	B5	205	ARG
1	B5	207	VAL
1	B5	208	PRO
1	B5	233	ASN
32	c5	154	SER
32	c6	154	SER
1	B6	195	PRO
1	B6	205	ARG
1	B6	231	PRO
32	c7	154	SER
1	B7	195	PRO
1	B7	197	VAL

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Mol	Chain	Res	Type
1	B7	199	TRP
1	B7	207	VAL
1	B7	208	PRO
1	B7	212	GLN
1	B7	213	PRO
1	B7	231	PRO
1	B8	195	PRO
1	B8	198	ILE
1	B8	205	ARG
1	B8	207	VAL
1	B8	208	PRO
1	B8	233	ASN
32	c8	154	SER
32	c9	154	SER
1	B9	201	THR
1	B9	205	ARG
32	cA	154	SER
4	aB	57	ALA
4	aB	65	ILE
4	aB	67	ARG
4	aB	68	PRO
4	aB	71	ASN
32	cC	154	SER
7	bD	302	TRP
8	cD	136	TYR
8	cD	194	LEU
8	cD	256	GLU
8	cD	257	ALA
9	dD	104	TRP
9	dD	122	LEU
13	iD	34	ARG
15	kD	15	SER
15	kD	18	SER
15	kD	41	ALA
18	oD	72	CYS
18	oD	88	ARG
18	oD	89	GLN
7	bE	302	TRP
8	cE	136	TYR
8	cE	255	GLY
9	dE	104	TRP
9	dE	122	LEU

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Mol	Chain	Res	Type
13	iE	34	ARG
15	kE	15	SER
15	kE	18	SER
15	kE	41	ALA
18	oE	72	CYS
18	oE	88	ARG
18	oE	89	GLN
29	gF	138	ALA
29	gF	154	GLU
32	cH	154	SER
32	cI	154	SER
32	cJ	154	SER
29	gK	138	ALA
29	gK	154	GLU
2	BB	119	ASN
8	CD	320	GLY
13	ID	33	LYS
8	CE	320	GLY
13	IE	33	LYS
3	XF	84	ASP
1	BH	193	GLY
1	BH	197	VAL
1	BI	197	VAL
1	BI	203	VAL
1	BJ	193	GLY
1	BJ	197	VAL
4	IK	64	ASP
3	XK	84	ASP
8	C1	197	PHE
8	C1	320	GLY
13	I1	33	LYS
8	c1	129	GLU
8	c1	136	TYR
8	c1	217	MET
8	c1	255	GLY
8	c1	258	TYR
8	c1	317	SER
9	d1	109	GLY
15	k1	16	ILE
32	g2	154	SER
32	g3	154	SER
1	B3	197	VAL

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Mol	Chain	Res	Type
3	s4	75	GLU
2	B4	119	ASN
1	B5	193	GLY
1	B5	197	VAL
32	g5	154	SER
32	g6	154	SER
32	g7	154	SER
1	B7	202	SER
1	B7	206	PHE
1	B8	193	GLY
1	B8	197	VAL
32	g8	154	SER
32	g9	154	SER
1	B9	213	PRO
32	gA	154	SER
3	sB	75	GLU
32	gC	154	SER
8	cD	129	GLU
8	cD	217	MET
8	cD	317	SER
9	dD	109	GLY
15	kD	16	ILE
8	cE	129	GLU
8	cE	217	MET
8	cE	317	SER
9	dE	109	GLY
11	fE	11	THR
15	kE	16	ILE
4	aF	75	THR
32	gH	154	SER
32	gI	154	SER
32	gJ	154	SER
4	aK	75	THR
1	BA	202	SER
2	BB	80	SER
2	BB	126	ASP
2	BB	733	LYS
18	OD	79	PHE
18	OE	79	PHE
29	QG	65	GLU
29	QG	156	PRO
1	BH	194	PHE

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Mol	Chain	Res	Type
1	BH	237	ARG
1	BI	204	ARG
1	BI	218	PRO
1	BJ	194	PHE
1	BJ	237	ARG
29	QL	156	PRO
13	I1	30	ARG
18	O1	79	PHE
7	b1	88	PRO
8	c1	130	TYR
18	o1	79	PHE
32	c2	37	ARG
32	i2	145	PRO
1	B2	196	GLN
1	B2	212	GLN
1	B2	218	PRO
32	c3	37	ARG
32	i3	145	PRO
2	B4	80	SER
2	B4	130	SER
2	B4	733	LYS
1	B5	194	PHE
1	B5	237	ARG
32	c5	37	ARG
32	i5	145	PRO
32	c6	37	ARG
32	i6	145	PRO
1	B6	218	PRO
32	c7	37	ARG
32	i7	145	PRO
1	B7	194	PHE
1	B8	194	PHE
1	B8	237	ARG
32	c8	37	ARG
32	i8	145	PRO
32	c9	37	ARG
32	i9	145	PRO
1	B9	195	PRO
1	B9	218	PRO
32	cA	37	ARG
32	iA	145	PRO
4	aB	55	ALA

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Mol	Chain	Res	Type
32	cC	37	ARG
32	iC	145	PRO
7	bD	88	PRO
8	cD	130	TYR
8	cD	193	PRO
18	oD	79	PHE
7	bE	88	PRO
8	cE	130	TYR
8	cE	267	SER
18	oE	79	PHE
32	cH	37	ARG
32	iH	145	PRO
32	cI	37	ARG
32	iI	145	PRO
32	cJ	37	ARG
32	iJ	145	PRO
1	BA	210	GLU
2	BB	124	PHE
2	CB	733	LYS
1	BC	210	GLU
13	ID	27	ASP
13	ID	30	ARG
13	IE	27	ASP
13	IE	30	ARG
4	YF	78	TYR
28	BG	133	PRO
29	QG	155	GLN
4	YK	78	TYR
28	BL	133	PRO
29	QL	155	GLN
13	I1	27	ASP
7	b1	295	GLY
8	c1	9	TYR
9	d1	110	LEU
26	y1	74	LEU
32	k2	145	PRO
1	B2	198	ILE
32	k3	145	PRO
1	B3	201	THR
1	B3	210	GLU
2	C4	733	LYS
32	k5	145	PRO

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Mol	Chain	Res	Type
32	k6	145	PRO
32	k7	145	PRO
1	B7	210	GLU
32	k8	145	PRO
32	k9	145	PRO
1	B9	198	ILE
1	B9	232	ALA
32	kA	145	PRO
4	aB	60	LEU
32	kC	145	PRO
7	bD	295	GLY
8	cD	9	TYR
9	dD	110	LEU
26	yD	74	LEU
7	bE	295	GLY
8	cE	9	TYR
8	cE	252	ILE
9	dE	110	LEU
26	yE	74	LEU
32	kH	145	PRO
32	kI	145	PRO
32	kJ	145	PRO
2	BB	135	SER
7	BD	63	MET
18	OD	36	ASP
7	BE	63	MET
18	OE	36	ASP
7	B1	63	MET
18	O1	36	ASP
7	b1	63	MET
18	o1	36	ASP
32	m2	145	PRO
32	m3	145	PRO
2	B4	125	PHE
32	m5	145	PRO
32	m6	145	PRO
32	m7	145	PRO
32	m8	145	PRO
32	m9	145	PRO
32	mA	145	PRO
32	mC	145	PRO
7	bD	63	MET

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Mol	Chain	Res	Type
8	cD	258	TYR
18	oD	36	ASP
7	bE	63	MET
8	cE	260	SER
18	oE	36	ASP
32	mH	145	PRO
32	mI	145	PRO
32	mJ	145	PRO
2	BB	139	PRO
1	BC	192	LEU
7	BD	493	GLY
7	BE	493	GLY
28	BG	116	THR
28	BL	116	THR
7	B1	493	GLY
1	B6	216	GLY
4	WB	68	PRO
9	DD	139	ARG
9	DE	139	ARG
9	D1	139	ARG
6	a1	83	VAL
9	d1	139	ARG
6	aD	83	VAL
9	dD	139	ARG
6	aE	83	VAL
9	dE	139	ARG
32	e5	145	PRO
32	e6	145	PRO
32	eA	145	PRO
32	eH	145	PRO
32	eI	145	PRO
32	e2	145	PRO
32	e3	145	PRO
2	B4	139	PRO
32	e7	145	PRO
32	e8	145	PRO
32	e9	145	PRO
32	eC	145	PRO
32	eJ	145	PRO
8	C1	196	ILE
1	B3	195	PRO
4	a4	65	ILE

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Mol	Chain	Res	Type
1	BI	230	ARG
1	B2	230	ARG
1	B6	230	ARG

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B2	208/225 (92%)	188 (90%)	20 (10%)	8	34
1	B3	208/225 (92%)	187 (90%)	21 (10%)	7	32
1	B5	190/225 (84%)	168 (88%)	22 (12%)	5	26
1	B6	209/225 (93%)	192 (92%)	17 (8%)	11	41
1	B7	209/225 (93%)	187 (90%)	22 (10%)	7	31
1	B8	189/225 (84%)	168 (89%)	21 (11%)	6	28
1	B9	209/225 (93%)	191 (91%)	18 (9%)	10	38
1	BA	210/225 (93%)	187 (89%)	23 (11%)	6	29
1	BC	209/225 (93%)	187 (90%)	22 (10%)	7	31
1	BH	189/225 (84%)	168 (89%)	21 (11%)	6	28
1	BI	206/225 (92%)	186 (90%)	20 (10%)	8	33
1	BJ	190/225 (84%)	168 (88%)	22 (12%)	5	26
2	B4	747/767 (97%)	725 (97%)	22 (3%)	42	71
2	BB	747/767 (97%)	725 (97%)	22 (3%)	42	71
2	C4	732/767 (95%)	722 (99%)	10 (1%)	67	85
2	CB	732/767 (95%)	722 (99%)	10 (1%)	67	85
3	4G	125/127 (98%)	125 (100%)	0	100	100
3	4L	125/127 (98%)	125 (100%)	0	100	100
3	6G	126/127 (99%)	124 (98%)	2 (2%)	62	83
3	6L	126/127 (99%)	124 (98%)	2 (2%)	62	83
3	9F	126/127 (99%)	126 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	9K	126/127 (99%)	126 (100%)	0	100	100
3	AG	126/127 (99%)	126 (100%)	0	100	100
3	AL	126/127 (99%)	126 (100%)	0	100	100
3	GG	126/127 (99%)	126 (100%)	0	100	100
3	GL	126/127 (99%)	126 (100%)	0	100	100
3	IG	125/127 (98%)	122 (98%)	3 (2%)	49	76
3	IL	125/127 (98%)	120 (96%)	5 (4%)	31	64
3	JF	125/127 (98%)	125 (100%)	0	100	100
3	JK	126/127 (99%)	125 (99%)	1 (1%)	81	91
3	KG	125/127 (98%)	125 (100%)	0	100	100
3	KL	125/127 (98%)	125 (100%)	0	100	100
3	LF	126/127 (99%)	126 (100%)	0	100	100
3	LK	126/127 (99%)	126 (100%)	0	100	100
3	NG	125/127 (98%)	125 (100%)	0	100	100
3	NL	125/127 (98%)	124 (99%)	1 (1%)	81	91
3	O4	125/127 (98%)	124 (99%)	1 (1%)	81	91
3	OB	124/127 (98%)	123 (99%)	1 (1%)	81	91
3	PG	126/127 (99%)	125 (99%)	1 (1%)	81	91
3	PL	126/127 (99%)	125 (99%)	1 (1%)	81	91
3	Q4	126/127 (99%)	125 (99%)	1 (1%)	81	91
3	QB	125/127 (98%)	124 (99%)	1 (1%)	81	91
3	RG	126/127 (99%)	126 (100%)	0	100	100
3	RL	126/127 (99%)	126 (100%)	0	100	100
3	S4	126/127 (99%)	126 (100%)	0	100	100
3	SB	126/127 (99%)	126 (100%)	0	100	100
3	TG	125/127 (98%)	125 (100%)	0	100	100
3	TL	125/127 (98%)	125 (100%)	0	100	100
3	V4	125/127 (98%)	124 (99%)	1 (1%)	81	91
3	VB	125/127 (98%)	124 (99%)	1 (1%)	81	91
3	X4	123/127 (97%)	123 (100%)	0	100	100
3	XB	125/127 (98%)	125 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	XF	126/127 (99%)	125 (99%)	1 (1%)	81	91
3	XK	126/127 (99%)	125 (99%)	1 (1%)	81	91
3	Z4	126/127 (99%)	125 (99%)	1 (1%)	81	91
3	ZB	126/127 (99%)	125 (99%)	1 (1%)	81	91
3	ZF	126/127 (99%)	126 (100%)	0	100	100
3	ZK	126/127 (99%)	126 (100%)	0	100	100
3	bF	126/127 (99%)	126 (100%)	0	100	100
3	bK	126/127 (99%)	126 (100%)	0	100	100
3	dF	125/127 (98%)	125 (100%)	0	100	100
3	dK	125/127 (98%)	125 (100%)	0	100	100
3	fF	126/127 (99%)	126 (100%)	0	100	100
3	fK	126/127 (99%)	126 (100%)	0	100	100
3	iF	126/127 (99%)	126 (100%)	0	100	100
3	iK	126/127 (99%)	126 (100%)	0	100	100
3	kF	126/127 (99%)	126 (100%)	0	100	100
3	kK	126/127 (99%)	126 (100%)	0	100	100
3	o4	125/127 (98%)	124 (99%)	1 (1%)	81	91
3	oB	124/127 (98%)	124 (100%)	0	100	100
3	q4	124/127 (98%)	123 (99%)	1 (1%)	81	91
3	qB	124/127 (98%)	123 (99%)	1 (1%)	81	91
3	s4	126/127 (99%)	125 (99%)	1 (1%)	81	91
3	sB	126/127 (99%)	125 (99%)	1 (1%)	81	91
3	u4	124/127 (98%)	123 (99%)	1 (1%)	81	91
3	uB	124/127 (98%)	123 (99%)	1 (1%)	81	91
3	w4	123/127 (97%)	123 (100%)	0	100	100
3	wB	126/127 (99%)	124 (98%)	2 (2%)	62	83
3	y4	126/127 (99%)	124 (98%)	2 (2%)	62	83
3	yB	126/127 (99%)	124 (98%)	2 (2%)	62	83
4	1G	125/125 (100%)	125 (100%)	0	100	100
4	1L	125/125 (100%)	122 (98%)	3 (2%)	49	76
4	5G	125/125 (100%)	125 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	5L	125/125 (100%)	125 (100%)	0	100	100
4	7G	125/125 (100%)	125 (100%)	0	100	100
4	7L	125/125 (100%)	125 (100%)	0	100	100
4	HG	124/125 (99%)	124 (100%)	0	100	100
4	HL	124/125 (99%)	124 (100%)	0	100	100
4	IF	125/125 (100%)	123 (98%)	2 (2%)	62	83
4	IK	125/125 (100%)	122 (98%)	3 (2%)	49	76
4	JG	125/125 (100%)	125 (100%)	0	100	100
4	JL	125/125 (100%)	125 (100%)	0	100	100
4	KF	125/125 (100%)	123 (98%)	2 (2%)	62	83
4	KK	125/125 (100%)	123 (98%)	2 (2%)	62	83
4	LG	125/125 (100%)	124 (99%)	1 (1%)	81	91
4	LL	125/125 (100%)	124 (99%)	1 (1%)	81	91
4	MF	125/125 (100%)	125 (100%)	0	100	100
4	MG	124/125 (99%)	123 (99%)	1 (1%)	81	91
4	MK	125/125 (100%)	125 (100%)	0	100	100
4	ML	124/125 (99%)	123 (99%)	1 (1%)	81	91
4	OG	125/125 (100%)	125 (100%)	0	100	100
4	OL	125/125 (100%)	125 (100%)	0	100	100
4	P4	125/125 (100%)	125 (100%)	0	100	100
4	PB	125/125 (100%)	125 (100%)	0	100	100
4	R4	125/125 (100%)	124 (99%)	1 (1%)	81	91
4	RB	125/125 (100%)	124 (99%)	1 (1%)	81	91
4	SG	125/125 (100%)	124 (99%)	1 (1%)	81	91
4	SL	125/125 (100%)	124 (99%)	1 (1%)	81	91
4	T4	125/125 (100%)	125 (100%)	0	100	100
4	TB	125/125 (100%)	124 (99%)	1 (1%)	81	91
4	UG	125/125 (100%)	125 (100%)	0	100	100
4	UL	125/125 (100%)	125 (100%)	0	100	100
4	W4	125/125 (100%)	125 (100%)	0	100	100
4	WB	125/125 (100%)	124 (99%)	1 (1%)	81	91

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	WG	125/125 (100%)	124 (99%)	1 (1%)	81	91
4	WL	125/125 (100%)	124 (99%)	1 (1%)	81	91
4	Y4	125/125 (100%)	125 (100%)	0	100	100
4	YB	125/125 (100%)	125 (100%)	0	100	100
4	YF	125/125 (100%)	122 (98%)	3 (2%)	49	76
4	YK	125/125 (100%)	122 (98%)	3 (2%)	49	76
4	a4	123/125 (98%)	111 (90%)	12 (10%)	8	33
4	aB	122/125 (98%)	113 (93%)	9 (7%)	13	44
4	aF	125/125 (100%)	125 (100%)	0	100	100
4	aK	125/125 (100%)	125 (100%)	0	100	100
4	cF	125/125 (100%)	125 (100%)	0	100	100
4	cK	125/125 (100%)	125 (100%)	0	100	100
4	eF	125/125 (100%)	125 (100%)	0	100	100
4	eK	125/125 (100%)	125 (100%)	0	100	100
4	hF	125/125 (100%)	122 (98%)	3 (2%)	49	76
4	hK	124/125 (99%)	122 (98%)	2 (2%)	62	83
4	jF	124/125 (99%)	124 (100%)	0	100	100
4	jK	124/125 (99%)	124 (100%)	0	100	100
4	lF	125/125 (100%)	125 (100%)	0	100	100
4	lK	125/125 (100%)	125 (100%)	0	100	100
4	nF	125/125 (100%)	125 (100%)	0	100	100
4	nK	125/125 (100%)	125 (100%)	0	100	100
4	p4	124/125 (99%)	124 (100%)	0	100	100
4	pB	124/125 (99%)	124 (100%)	0	100	100
4	r4	125/125 (100%)	125 (100%)	0	100	100
4	rB	125/125 (100%)	125 (100%)	0	100	100
4	t4	125/125 (100%)	125 (100%)	0	100	100
4	tB	125/125 (100%)	124 (99%)	1 (1%)	81	91
4	v4	125/125 (100%)	125 (100%)	0	100	100
4	vB	125/125 (100%)	125 (100%)	0	100	100
4	x4	125/125 (100%)	125 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	xB	125/125 (100%)	125 (100%)	0	100	100
4	z4	124/125 (99%)	124 (100%)	0	100	100
4	zB	124/125 (99%)	124 (100%)	0	100	100
5	2G	58/60 (97%)	58 (100%)	0	100	100
5	2L	58/60 (97%)	58 (100%)	0	100	100
5	3F	58/60 (97%)	58 (100%)	0	100	100
5	3K	58/60 (97%)	58 (100%)	0	100	100
5	8G	58/60 (97%)	57 (98%)	1 (2%)	60	82
5	8L	58/60 (97%)	57 (98%)	1 (2%)	60	82
5	NF	59/60 (98%)	58 (98%)	1 (2%)	60	82
5	NK	59/60 (98%)	58 (98%)	1 (2%)	60	82
5	U4	58/60 (97%)	58 (100%)	0	100	100
5	UB	58/60 (97%)	58 (100%)	0	100	100
5	b4	58/60 (97%)	57 (98%)	1 (2%)	60	82
5	bB	58/60 (97%)	57 (98%)	1 (2%)	60	82
6	A1	269/293 (92%)	269 (100%)	0	100	100
6	AD	268/293 (92%)	268 (100%)	0	100	100
6	AE	268/293 (92%)	268 (100%)	0	100	100
6	a1	269/293 (92%)	268 (100%)	1 (0%)	91	96
6	aD	270/293 (92%)	268 (99%)	2 (1%)	84	93
6	aE	270/293 (92%)	269 (100%)	1 (0%)	91	96
7	B1	397/405 (98%)	335 (84%)	62 (16%)	2	16
7	BD	398/405 (98%)	337 (85%)	61 (15%)	2	17
7	BE	397/405 (98%)	334 (84%)	63 (16%)	2	14
7	b1	399/405 (98%)	341 (86%)	58 (14%)	3	18
7	bD	399/405 (98%)	339 (85%)	60 (15%)	3	17
7	bE	399/405 (98%)	339 (85%)	60 (15%)	3	17
8	C1	346/365 (95%)	324 (94%)	22 (6%)	17	50
8	CD	346/365 (95%)	326 (94%)	20 (6%)	20	53
8	CE	346/365 (95%)	327 (94%)	19 (6%)	21	54
8	c1	344/365 (94%)	328 (95%)	16 (5%)	26	60

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	cD	343/365 (94%)	327 (95%)	16 (5%)	26	60
8	cE	343/365 (94%)	329 (96%)	14 (4%)	30	63
9	D1	274/285 (96%)	233 (85%)	41 (15%)	3	17
9	DD	274/285 (96%)	233 (85%)	41 (15%)	3	17
9	DE	274/285 (96%)	233 (85%)	41 (15%)	3	17
9	d1	273/285 (96%)	234 (86%)	39 (14%)	3	19
9	dD	273/285 (96%)	234 (86%)	39 (14%)	3	19
9	dE	273/285 (96%)	234 (86%)	39 (14%)	3	19
10	E1	68/70 (97%)	63 (93%)	5 (7%)	13	44
10	ED	68/70 (97%)	63 (93%)	5 (7%)	13	44
10	EE	68/70 (97%)	63 (93%)	5 (7%)	13	44
10	e1	68/70 (97%)	64 (94%)	4 (6%)	19	53
10	eD	68/70 (97%)	64 (94%)	4 (6%)	19	53
10	eE	68/70 (97%)	64 (94%)	4 (6%)	19	53
11	F1	29/37 (78%)	23 (79%)	6 (21%)	1	6
11	FD	29/37 (78%)	24 (83%)	5 (17%)	2	11
11	FE	29/37 (78%)	25 (86%)	4 (14%)	3	20
11	f1	29/37 (78%)	23 (79%)	6 (21%)	1	6
11	fD	31/37 (84%)	23 (74%)	8 (26%)	0	3
11	fE	29/37 (78%)	23 (79%)	6 (21%)	1	6
12	H1	55/58 (95%)	54 (98%)	1 (2%)	59	81
12	HD	53/58 (91%)	52 (98%)	1 (2%)	57	80
12	HE	53/58 (91%)	51 (96%)	2 (4%)	33	65
12	h1	55/58 (95%)	54 (98%)	1 (2%)	59	81
12	hD	55/58 (95%)	54 (98%)	1 (2%)	59	81
12	hE	55/58 (95%)	54 (98%)	1 (2%)	59	81
13	I1	34/36 (94%)	22 (65%)	12 (35%)	0	1
13	ID	34/36 (94%)	21 (62%)	13 (38%)	0	1
13	IE	34/36 (94%)	21 (62%)	13 (38%)	0	1
13	i1	33/36 (92%)	22 (67%)	11 (33%)	0	1
13	iD	33/36 (92%)	22 (67%)	11 (33%)	0	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	iE	33/36 (92%)	22 (67%)	11 (33%)	0	1
14	J1	25/27 (93%)	21 (84%)	4 (16%)	2	14
14	JD	25/27 (93%)	21 (84%)	4 (16%)	2	14
14	JE	25/27 (93%)	21 (84%)	4 (16%)	2	14
14	j1	27/27 (100%)	27 (100%)	0	100	100
14	jD	27/27 (100%)	27 (100%)	0	100	100
14	jE	27/27 (100%)	27 (100%)	0	100	100
15	K1	31/37 (84%)	28 (90%)	3 (10%)	8	33
15	KD	31/37 (84%)	28 (90%)	3 (10%)	8	33
15	KE	31/37 (84%)	28 (90%)	3 (10%)	8	33
15	k1	30/37 (81%)	25 (83%)	5 (17%)	2	12
15	kD	30/37 (81%)	25 (83%)	5 (17%)	2	12
15	kE	30/37 (81%)	25 (83%)	5 (17%)	2	12
16	L1	36/37 (97%)	30 (83%)	6 (17%)	2	12
16	LD	36/37 (97%)	30 (83%)	6 (17%)	2	12
16	LE	36/37 (97%)	30 (83%)	6 (17%)	2	12
16	l1	36/37 (97%)	30 (83%)	6 (17%)	2	12
16	lD	36/37 (97%)	30 (83%)	6 (17%)	2	12
16	lE	36/37 (97%)	30 (83%)	6 (17%)	2	12
17	M1	33/33 (100%)	21 (64%)	12 (36%)	0	1
17	MD	33/33 (100%)	21 (64%)	12 (36%)	0	1
17	ME	33/33 (100%)	21 (64%)	12 (36%)	0	1
17	m1	33/33 (100%)	17 (52%)	16 (48%)	0	0
17	mD	33/33 (100%)	17 (52%)	16 (48%)	0	0
17	mE	33/33 (100%)	17 (52%)	16 (48%)	0	0
18	O1	201/230 (87%)	173 (86%)	28 (14%)	3	20
18	OD	201/230 (87%)	174 (87%)	27 (13%)	4	21
18	OE	201/230 (87%)	174 (87%)	27 (13%)	4	21
18	o1	201/230 (87%)	174 (87%)	27 (13%)	4	21
18	oD	201/230 (87%)	173 (86%)	28 (14%)	3	20
18	oE	201/230 (87%)	173 (86%)	28 (14%)	3	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
19	Q1	106/144 (74%)	76 (72%)	30 (28%)	0	3
19	QD	106/144 (74%)	76 (72%)	30 (28%)	0	3
19	QE	106/144 (74%)	76 (72%)	30 (28%)	0	3
19	q1	106/144 (74%)	76 (72%)	30 (28%)	0	3
19	qD	106/144 (74%)	76 (72%)	30 (28%)	0	3
19	qE	106/144 (74%)	76 (72%)	30 (28%)	0	3
20	R1	26/30 (87%)	19 (73%)	7 (27%)	0	3
20	RD	26/30 (87%)	19 (73%)	7 (27%)	0	3
20	RE	26/30 (87%)	19 (73%)	7 (27%)	0	3
20	r1	26/30 (87%)	19 (73%)	7 (27%)	0	3
20	rD	26/30 (87%)	19 (73%)	7 (27%)	0	3
20	rE	26/30 (87%)	19 (73%)	7 (27%)	0	3
22	T1	23/25 (92%)	23 (100%)	0	100	100
22	TD	23/25 (92%)	23 (100%)	0	100	100
22	TE	23/25 (92%)	23 (100%)	0	100	100
22	t1	24/25 (96%)	24 (100%)	0	100	100
22	tD	24/25 (96%)	24 (100%)	0	100	100
22	tE	24/25 (96%)	24 (100%)	0	100	100
23	U1	82/82 (100%)	74 (90%)	8 (10%)	8	33
23	UD	82/82 (100%)	74 (90%)	8 (10%)	8	33
23	UE	82/82 (100%)	74 (90%)	8 (10%)	8	33
23	u1	82/82 (100%)	74 (90%)	8 (10%)	8	33
23	uD	82/82 (100%)	74 (90%)	8 (10%)	8	33
23	uE	82/82 (100%)	74 (90%)	8 (10%)	8	33
24	V1	114/137 (83%)	99 (87%)	15 (13%)	4	21
24	VD	114/137 (83%)	99 (87%)	15 (13%)	4	21
24	VE	114/137 (83%)	100 (88%)	14 (12%)	4	23
24	v1	114/137 (83%)	103 (90%)	11 (10%)	8	34
24	vD	114/137 (83%)	103 (90%)	11 (10%)	8	34
24	vE	114/137 (83%)	103 (90%)	11 (10%)	8	34
25	X1	36/44 (82%)	29 (81%)	7 (19%)	1	7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
25	XD	36/44 (82%)	29 (81%)	7 (19%)	1	7
25	XE	36/44 (82%)	29 (81%)	7 (19%)	1	7
25	x1	36/44 (82%)	29 (81%)	7 (19%)	1	7
25	xD	36/44 (82%)	29 (81%)	7 (19%)	1	7
25	xE	36/44 (82%)	29 (81%)	7 (19%)	1	7
26	Y1	26/37 (70%)	16 (62%)	10 (38%)	0	1
26	YD	26/37 (70%)	16 (62%)	10 (38%)	0	1
26	YE	26/37 (70%)	16 (62%)	10 (38%)	0	1
26	y1	26/37 (70%)	15 (58%)	11 (42%)	0	0
26	yD	26/37 (70%)	15 (58%)	11 (42%)	0	0
26	yE	26/37 (70%)	15 (58%)	11 (42%)	0	0
27	Z1	51/54 (94%)	37 (72%)	14 (28%)	0	3
27	ZD	51/54 (94%)	37 (72%)	14 (28%)	0	3
27	ZE	51/54 (94%)	37 (72%)	14 (28%)	0	3
27	z1	51/54 (94%)	39 (76%)	12 (24%)	1	4
27	zD	51/54 (94%)	39 (76%)	12 (24%)	1	4
27	zE	51/54 (94%)	39 (76%)	12 (24%)	1	4
28	BG	39/113 (34%)	15 (38%)	24 (62%)	0	0
28	BL	39/113 (34%)	15 (38%)	24 (62%)	0	0
28	EF	38/113 (34%)	20 (53%)	18 (47%)	0	0
28	EK	38/113 (34%)	20 (53%)	18 (47%)	0	0
29	QG	135/135 (100%)	127 (94%)	8 (6%)	19	53
29	QL	135/135 (100%)	127 (94%)	8 (6%)	19	53
29	gF	135/135 (100%)	127 (94%)	8 (6%)	19	53
29	gK	135/135 (100%)	127 (94%)	8 (6%)	19	53
30	VG	135/136 (99%)	130 (96%)	5 (4%)	34	65
30	VL	135/136 (99%)	130 (96%)	5 (4%)	34	65
30	mF	135/136 (99%)	132 (98%)	3 (2%)	52	78
30	mK	135/136 (99%)	132 (98%)	3 (2%)	52	78
31	b2	87/125 (70%)	86 (99%)	1 (1%)	73	88
31	b3	87/125 (70%)	86 (99%)	1 (1%)	73	88

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
31	b5	87/125 (70%)	86 (99%)	1 (1%)	73	88
31	b6	87/125 (70%)	86 (99%)	1 (1%)	73	88
31	b7	87/125 (70%)	86 (99%)	1 (1%)	73	88
31	b8	87/125 (70%)	86 (99%)	1 (1%)	73	88
31	b9	87/125 (70%)	86 (99%)	1 (1%)	73	88
31	bA	87/125 (70%)	86 (99%)	1 (1%)	73	88
31	bC	87/125 (70%)	86 (99%)	1 (1%)	73	88
31	bH	87/125 (70%)	86 (99%)	1 (1%)	73	88
31	bI	87/125 (70%)	86 (99%)	1 (1%)	73	88
31	bJ	87/125 (70%)	86 (99%)	1 (1%)	73	88
31	d2	78/125 (62%)	78 (100%)	0	100	100
31	d3	78/125 (62%)	78 (100%)	0	100	100
31	d5	78/125 (62%)	78 (100%)	0	100	100
31	d6	78/125 (62%)	78 (100%)	0	100	100
31	d7	78/125 (62%)	78 (100%)	0	100	100
31	d8	78/125 (62%)	78 (100%)	0	100	100
31	d9	78/125 (62%)	78 (100%)	0	100	100
31	dA	78/125 (62%)	78 (100%)	0	100	100
31	dC	78/125 (62%)	78 (100%)	0	100	100
31	dH	78/125 (62%)	78 (100%)	0	100	100
31	dI	78/125 (62%)	78 (100%)	0	100	100
31	dJ	78/125 (62%)	78 (100%)	0	100	100
31	f2	80/125 (64%)	79 (99%)	1 (1%)	69	86
31	f3	80/125 (64%)	79 (99%)	1 (1%)	69	86
31	f5	80/125 (64%)	79 (99%)	1 (1%)	69	86
31	f6	80/125 (64%)	79 (99%)	1 (1%)	69	86
31	f7	80/125 (64%)	79 (99%)	1 (1%)	69	86
31	f8	80/125 (64%)	79 (99%)	1 (1%)	69	86
31	f9	80/125 (64%)	79 (99%)	1 (1%)	69	86
31	fA	80/125 (64%)	79 (99%)	1 (1%)	69	86
31	fC	80/125 (64%)	79 (99%)	1 (1%)	69	86

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
31	fH	80/125 (64%)	79 (99%)	1 (1%)	69	86
31	fI	80/125 (64%)	79 (99%)	1 (1%)	69	86
31	fJ	80/125 (64%)	79 (99%)	1 (1%)	69	86
31	h2	82/125 (66%)	81 (99%)	1 (1%)	71	87
31	h3	82/125 (66%)	81 (99%)	1 (1%)	71	87
31	h5	82/125 (66%)	81 (99%)	1 (1%)	71	87
31	h6	82/125 (66%)	81 (99%)	1 (1%)	71	87
31	h7	82/125 (66%)	81 (99%)	1 (1%)	71	87
31	h8	82/125 (66%)	81 (99%)	1 (1%)	71	87
31	h9	81/125 (65%)	80 (99%)	1 (1%)	71	87
31	hA	82/125 (66%)	81 (99%)	1 (1%)	71	87
31	hC	82/125 (66%)	81 (99%)	1 (1%)	71	87
31	hH	82/125 (66%)	81 (99%)	1 (1%)	71	87
31	hI	82/125 (66%)	81 (99%)	1 (1%)	71	87
31	hJ	82/125 (66%)	81 (99%)	1 (1%)	71	87
31	j2	81/125 (65%)	81 (100%)	0	100	100
31	j3	81/125 (65%)	81 (100%)	0	100	100
31	j5	81/125 (65%)	81 (100%)	0	100	100
31	j6	81/125 (65%)	81 (100%)	0	100	100
31	j7	81/125 (65%)	81 (100%)	0	100	100
31	j8	81/125 (65%)	81 (100%)	0	100	100
31	j9	81/125 (65%)	81 (100%)	0	100	100
31	jA	81/125 (65%)	81 (100%)	0	100	100
31	jC	81/125 (65%)	81 (100%)	0	100	100
31	jH	81/125 (65%)	81 (100%)	0	100	100
31	jI	81/125 (65%)	81 (100%)	0	100	100
31	jJ	81/125 (65%)	81 (100%)	0	100	100
31	l2	85/125 (68%)	85 (100%)	0	100	100
31	l3	85/125 (68%)	85 (100%)	0	100	100
31	l5	85/125 (68%)	85 (100%)	0	100	100
31	l6	85/125 (68%)	85 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
31	l7	85/125 (68%)	85 (100%)	0	100	100
31	l8	85/125 (68%)	85 (100%)	0	100	100
31	l9	85/125 (68%)	85 (100%)	0	100	100
31	lA	85/125 (68%)	85 (100%)	0	100	100
31	lC	85/125 (68%)	85 (100%)	0	100	100
31	lH	85/125 (68%)	85 (100%)	0	100	100
31	lI	85/125 (68%)	85 (100%)	0	100	100
31	lJ	85/125 (68%)	85 (100%)	0	100	100
32	c2	85/131 (65%)	85 (100%)	0	100	100
32	c3	85/131 (65%)	85 (100%)	0	100	100
32	c5	85/131 (65%)	85 (100%)	0	100	100
32	c6	85/131 (65%)	85 (100%)	0	100	100
32	c7	85/131 (65%)	85 (100%)	0	100	100
32	c8	85/131 (65%)	85 (100%)	0	100	100
32	c9	85/131 (65%)	85 (100%)	0	100	100
32	cA	85/131 (65%)	85 (100%)	0	100	100
32	cC	85/131 (65%)	85 (100%)	0	100	100
32	cH	85/131 (65%)	85 (100%)	0	100	100
32	cI	84/131 (64%)	84 (100%)	0	100	100
32	cJ	85/131 (65%)	85 (100%)	0	100	100
32	e2	83/131 (63%)	83 (100%)	0	100	100
32	e3	83/131 (63%)	83 (100%)	0	100	100
32	e5	83/131 (63%)	83 (100%)	0	100	100
32	e6	83/131 (63%)	83 (100%)	0	100	100
32	e7	83/131 (63%)	83 (100%)	0	100	100
32	e8	83/131 (63%)	83 (100%)	0	100	100
32	e9	83/131 (63%)	83 (100%)	0	100	100
32	eA	83/131 (63%)	83 (100%)	0	100	100
32	eC	83/131 (63%)	83 (100%)	0	100	100
32	eH	83/131 (63%)	83 (100%)	0	100	100
32	eI	83/131 (63%)	83 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
32	eJ	83/131 (63%)	83 (100%)	0	100	100
32	g2	89/131 (68%)	89 (100%)	0	100	100
32	g3	89/131 (68%)	89 (100%)	0	100	100
32	g5	89/131 (68%)	89 (100%)	0	100	100
32	g6	89/131 (68%)	89 (100%)	0	100	100
32	g7	89/131 (68%)	89 (100%)	0	100	100
32	g8	89/131 (68%)	89 (100%)	0	100	100
32	g9	89/131 (68%)	89 (100%)	0	100	100
32	gA	89/131 (68%)	89 (100%)	0	100	100
32	gC	89/131 (68%)	89 (100%)	0	100	100
32	gH	89/131 (68%)	89 (100%)	0	100	100
32	gI	88/131 (67%)	88 (100%)	0	100	100
32	gJ	89/131 (68%)	89 (100%)	0	100	100
32	i2	88/131 (67%)	88 (100%)	0	100	100
32	i3	88/131 (67%)	88 (100%)	0	100	100
32	i5	88/131 (67%)	88 (100%)	0	100	100
32	i6	88/131 (67%)	88 (100%)	0	100	100
32	i7	88/131 (67%)	88 (100%)	0	100	100
32	i8	88/131 (67%)	88 (100%)	0	100	100
32	i9	88/131 (67%)	88 (100%)	0	100	100
32	iA	88/131 (67%)	88 (100%)	0	100	100
32	iC	88/131 (67%)	88 (100%)	0	100	100
32	iH	88/131 (67%)	88 (100%)	0	100	100
32	iI	88/131 (67%)	88 (100%)	0	100	100
32	iJ	88/131 (67%)	88 (100%)	0	100	100
32	k2	94/131 (72%)	94 (100%)	0	100	100
32	k3	94/131 (72%)	94 (100%)	0	100	100
32	k5	94/131 (72%)	94 (100%)	0	100	100
32	k6	94/131 (72%)	94 (100%)	0	100	100
32	k7	94/131 (72%)	94 (100%)	0	100	100
32	k8	94/131 (72%)	94 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
32	k9	94/131 (72%)	94 (100%)	0	100	100
32	kA	94/131 (72%)	94 (100%)	0	100	100
32	kC	94/131 (72%)	94 (100%)	0	100	100
32	kH	94/131 (72%)	94 (100%)	0	100	100
32	kI	94/131 (72%)	94 (100%)	0	100	100
32	kJ	94/131 (72%)	94 (100%)	0	100	100
32	m2	93/131 (71%)	91 (98%)	2 (2%)	52	78
32	m3	93/131 (71%)	91 (98%)	2 (2%)	52	78
32	m5	93/131 (71%)	91 (98%)	2 (2%)	52	78
32	m6	93/131 (71%)	91 (98%)	2 (2%)	52	78
32	m7	93/131 (71%)	91 (98%)	2 (2%)	52	78
32	m8	93/131 (71%)	91 (98%)	2 (2%)	52	78
32	m9	93/131 (71%)	91 (98%)	2 (2%)	52	78
32	mA	93/131 (71%)	91 (98%)	2 (2%)	52	78
32	mC	93/131 (71%)	91 (98%)	2 (2%)	52	78
32	mH	93/131 (71%)	91 (98%)	2 (2%)	52	78
32	mI	93/131 (71%)	91 (98%)	2 (2%)	52	78
32	mJ	93/131 (71%)	91 (98%)	2 (2%)	52	78
All	All	49693/57880 (86%)	47380 (95%)	2313 (5%)	30	60

All (2313) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	BA	198	ILE
1	BA	199	TRP
1	BA	200	GLN
1	BA	201	THR
1	BA	203	VAL
1	BA	205	ARG
1	BA	207	VAL
1	BA	208	PRO
1	BA	209	GLN
1	BA	210	GLU
1	BA	212	GLN
1	BA	214	LYS
1	BA	220	ASN

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Mol	Chain	Res	Type
1	BA	224	MET
1	BA	226	LYS
1	BA	227	GLN
1	BA	228	VAL
1	BA	230	ARG
1	BA	233	ASN
1	BA	234	THR
1	BA	236	THR
1	BA	238	VAL
1	BA	240	LEU
2	BB	73	ASN
2	BB	74	ARG
2	BB	82	LEU
2	BB	84	PHE
2	BB	114	ILE
2	BB	116	TYR
2	BB	117	VAL
2	BB	128	ILE
2	BB	129	LYS
2	BB	131	LEU
2	BB	132	PHE
2	BB	133	GLN
2	BB	137	THR
2	BB	294	LYS
2	BB	303	ARG
2	BB	359	ARG
2	BB	419	CYS
2	BB	551	PHE
2	BB	728	LYS
2	BB	734	ARG
2	BB	735	ARG
2	BB	774	LYS
2	CB	13	ARG
2	CB	74	ARG
2	CB	85	LEU
2	CB	86	GLU
2	CB	294	LYS
2	CB	303	ARG
2	CB	359	ARG
2	CB	773	THR
2	CB	774	LYS
2	CB	775	LYS

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Mol	Chain	Res	Type
3	OB	88	TYR
3	QB	16	ARG
4	RB	53	LYS
4	TB	67	ARG
3	VB	113	ARG
4	WB	67	ARG
3	ZB	83	ARG
1	BC	196	GLN
1	BC	199	TRP
1	BC	200	GLN
1	BC	203	VAL
1	BC	205	ARG
1	BC	207	VAL
1	BC	208	PRO
1	BC	209	GLN
1	BC	210	GLU
1	BC	212	GLN
1	BC	214	LYS
1	BC	220	ASN
1	BC	224	MET
1	BC	226	LYS
1	BC	227	GLN
1	BC	228	VAL
1	BC	230	ARG
1	BC	233	ASN
1	BC	234	THR
1	BC	236	THR
1	BC	238	VAL
1	BC	240	LEU
7	BD	14	ASN
7	BD	24	LEU
7	BD	39	LEU
7	BD	55	MET
7	BD	68	ARG
7	BD	73	GLN
7	BD	87	ASN
7	BD	96	VAL
7	BD	99	THR
7	BD	102	ILE
7	BD	104	SER
7	BD	106	LEU
7	BD	119	ASP

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Mol	Chain	Res	Type
7	BD	121	GLU
7	BD	128	THR
7	BD	138	MET
7	BD	145	LEU
7	BD	146	SER
7	BD	184	SER
7	BD	207	ILE
7	BD	214	LEU
7	BD	218	SER
7	BD	234	ILE
7	BD	236	THR
7	BD	237	VAL
7	BD	239	SER
7	BD	241	SER
7	BD	246	PHE
7	BD	251	VAL
7	BD	252	VAL
7	BD	271	THR
7	BD	272	ARG
7	BD	284	ILE
7	BD	290	SER
7	BD	291	SER
7	BD	299	SER
7	BD	357	ARG
7	BD	364	GLU
7	BD	365	THR
7	BD	372	ASP
7	BD	391	SER
7	BD	400	SER
7	BD	406	LEU
7	BD	412	THR
7	BD	416	SER
7	BD	436	THR
7	BD	439	SER
7	BD	446	SER
7	BD	460	LEU
7	BD	461	LEU
7	BD	471	SER
7	BD	474	ILE
7	BD	477	ASP
7	BD	491	GLU
7	BD	495	PHE

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Mol	Chain	Res	Type
7	BD	496	GLN
7	BD	497	LYS
7	BD	498	VAL
7	BD	500	ASP
7	BD	501	GLN
7	BD	503	THR
8	CD	10	LEU
8	CD	13	ARG
8	CD	14	ASP
8	CD	63	VAL
8	CD	127	LEU
8	CD	129	GLU
8	CD	131	SER
8	CD	133	PHE
8	CD	194	LEU
8	CD	307	ARG
8	CD	309	GLN
8	CD	310	LYS
8	CD	311	LEU
8	CD	315	ILE
8	CD	319	GLN
8	CD	394	VAL
8	CD	397	ILE
8	CD	402	GLN
8	CD	404	PHE
8	CD	406	TYR
9	DD	17	VAL
9	DD	25	ASP
9	DD	50	THR
9	DD	60	THR
9	DD	65	SER
9	DD	66	SER
9	DD	68	LEU
9	DD	84	SER
9	DD	85	LEU
9	DD	88	SER
9	DD	93	TRP
9	DD	96	GLU
9	DD	100	ASP
9	DD	101	PHE
9	DD	103	ARG
9	DD	106	GLN

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Mol	Chain	Res	Type
9	DD	107	LEU
9	DD	110	LEU
9	DD	111	TRP
9	DD	116	LEU
9	DD	123	ILE
9	DD	127	LEU
9	DD	139	ARG
9	DD	155	SER
9	DD	172	SER
9	DD	178	ILE
9	DD	211	CYS
9	DD	213	ILE
9	DD	223	PHE
9	DD	225	ASP
9	DD	227	GLU
9	DD	229	SER
9	DD	231	THR
9	DD	245	SER
9	DD	247	VAL
9	DD	289	LEU
9	DD	297	ASP
9	DD	307	GLU
9	DD	310	GLU
9	DD	337	GLN
9	DD	344	GLU
10	ED	65	ILE
10	ED	67	THR
10	ED	68	GLU
10	ED	69	ARG
10	ED	71	ASP
11	FD	10	ILE
11	FD	17	VAL
11	FD	20	LEU
11	FD	33	LEU
11	FD	42	ILE
12	HD	58	VAL
13	ID	1	MET
13	ID	2	VAL
13	ID	6	ILE
13	ID	9	ASN
13	ID	10	ILE
13	ID	16	VAL

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Mol	Chain	Res	Type
13	ID	18	LEU
13	ID	26	ASN
13	ID	28	PRO
13	ID	30	ARG
13	ID	31	ASN
13	ID	33	LYS
13	ID	35	ARG
14	JD	4	ASP
14	JD	6	LYS
14	JD	7	LEU
14	JD	9	LEU
15	KD	9	LYS
15	KD	16	ILE
15	KD	26	VAL
16	LD	1	MET
16	LD	2	ASP
16	LD	9	LYS
16	LD	18	SER
16	LD	23	LEU
16	LD	28	VAL
17	MD	2	GLU
17	MD	3	VAL
17	MD	4	ASN
17	MD	5	ASP
17	MD	6	LEU
17	MD	11	SER
17	MD	13	LEU
17	MD	16	LEU
17	MD	17	VAL
17	MD	20	VAL
17	MD	23	LEU
17	MD	31	SER
18	OD	34	THR
18	OD	38	ILE
18	OD	65	SER
18	OD	69	THR
18	OD	71	LEU
18	OD	72	CYS
18	OD	78	TYR
18	OD	83	GLU
18	OD	87	LYS
18	OD	88	ARG

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Mol	Chain	Res	Type
18	OD	101	ARG
18	OD	106	LEU
18	OD	108	GLN
18	OD	126	LYS
18	OD	150	ILE
18	OD	153	LEU
18	OD	161	LEU
18	OD	167	SER
18	OD	182	SER
18	OD	192	LEU
18	OD	202	LEU
18	OD	218	LEU
18	OD	229	SER
18	OD	230	LEU
18	OD	236	ASP
18	OD	238	GLU
18	OD	259	LYS
19	QD	37	GLN
19	QD	38	LEU
19	QD	46	SER
19	QD	49	VAL
19	QD	55	SER
19	QD	56	THR
19	QD	61	SER
19	QD	64	GLN
19	QD	69	ILE
19	QD	72	ASP
19	QD	73	ASN
19	QD	82	VAL
19	QD	83	LEU
19	QD	85	GLU
19	QD	87	ASN
19	QD	90	VAL
19	QD	102	ARG
19	QD	103	LYS
19	QD	104	LEU
19	QD	105	SER
19	QD	110	GLU
19	QD	113	GLN
19	QD	114	ASP
19	QD	115	MET
19	QD	116	SER

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Mol	Chain	Res	Type
19	QD	121	LYS
19	QD	136	LYS
19	QD	137	ASP
19	QD	138	LEU
19	QD	140	LEU
20	RD	2	ASP
20	RD	3	LEU
20	RD	7	VAL
20	RD	9	LEU
20	RD	10	LEU
20	RD	12	LEU
20	RD	23	ILE
23	UD	38	LEU
23	UD	40	LYS
23	UD	58	SER
23	UD	90	LEU
23	UD	109	GLU
23	UD	119	LEU
23	UD	121	GLU
23	UD	125	ARG
24	VD	26	LEU
24	VD	32	LEU
24	VD	40	GLN
24	VD	45	VAL
24	VD	49	LYS
24	VD	52	LYS
24	VD	53	LYS
24	VD	80	SER
24	VD	105	THR
24	VD	115	GLU
24	VD	135	ASP
24	VD	154	GLN
24	VD	155	TRP
24	VD	159	LYS
24	VD	160	TYR
25	XD	1	MET
25	XD	2	THR
25	XD	17	LEU
25	XD	21	VAL
25	XD	27	LEU
25	XD	30	ILE
25	XD	40	SER

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Mol	Chain	Res	Type
26	YD	66	ILE
26	YD	68	GLN
26	YD	69	LEU
26	YD	70	LEU
26	YD	73	SER
26	YD	74	LEU
26	YD	76	VAL
26	YD	77	ILE
26	YD	82	VAL
26	YD	93	LEU
27	ZD	4	LEU
27	ZD	7	VAL
27	ZD	23	VAL
27	ZD	31	GLN
27	ZD	32	ASN
27	ZD	33	TRP
27	ZD	35	GLN
27	ZD	37	LYS
27	ZD	40	ILE
27	ZD	42	ILE
27	ZD	50	LEU
27	ZD	51	VAL
27	ZD	52	ILE
27	ZD	56	VAL
7	BE	14	ASN
7	BE	24	LEU
7	BE	39	LEU
7	BE	55	MET
7	BE	68	ARG
7	BE	73	GLN
7	BE	84	VAL
7	BE	87	ASN
7	BE	94	GLU
7	BE	96	VAL
7	BE	99	THR
7	BE	102	ILE
7	BE	104	SER
7	BE	106	LEU
7	BE	119	ASP
7	BE	121	GLU
7	BE	128	THR
7	BE	138	MET

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Mol	Chain	Res	Type
7	BE	145	LEU
7	BE	146	SER
7	BE	184	SER
7	BE	207	ILE
7	BE	214	LEU
7	BE	218	SER
7	BE	234	ILE
7	BE	236	THR
7	BE	237	VAL
7	BE	239	SER
7	BE	241	SER
7	BE	246	PHE
7	BE	251	VAL
7	BE	252	VAL
7	BE	271	THR
7	BE	272	ARG
7	BE	284	ILE
7	BE	290	SER
7	BE	291	SER
7	BE	299	SER
7	BE	357	ARG
7	BE	364	GLU
7	BE	365	THR
7	BE	372	ASP
7	BE	391	SER
7	BE	400	SER
7	BE	406	LEU
7	BE	412	THR
7	BE	416	SER
7	BE	436	THR
7	BE	439	SER
7	BE	446	SER
7	BE	460	LEU
7	BE	461	LEU
7	BE	471	SER
7	BE	474	ILE
7	BE	477	ASP
7	BE	491	GLU
7	BE	495	PHE
7	BE	496	GLN
7	BE	497	LYS
7	BE	498	VAL

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Mol	Chain	Res	Type
7	BE	500	ASP
7	BE	501	GLN
7	BE	503	THR
8	CE	10	LEU
8	CE	13	ARG
8	CE	14	ASP
8	CE	63	VAL
8	CE	127	LEU
8	CE	129	GLU
8	CE	131	SER
8	CE	133	PHE
8	CE	307	ARG
8	CE	309	GLN
8	CE	310	LYS
8	CE	311	LEU
8	CE	315	ILE
8	CE	319	GLN
8	CE	394	VAL
8	CE	397	ILE
8	CE	402	GLN
8	CE	404	PHE
8	CE	406	TYR
9	DE	17	VAL
9	DE	25	ASP
9	DE	50	THR
9	DE	60	THR
9	DE	65	SER
9	DE	66	SER
9	DE	68	LEU
9	DE	84	SER
9	DE	85	LEU
9	DE	88	SER
9	DE	93	TRP
9	DE	96	GLU
9	DE	100	ASP
9	DE	101	PHE
9	DE	103	ARG
9	DE	106	GLN
9	DE	107	LEU
9	DE	110	LEU
9	DE	111	TRP
9	DE	116	LEU

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Mol	Chain	Res	Type
9	DE	123	ILE
9	DE	127	LEU
9	DE	139	ARG
9	DE	155	SER
9	DE	172	SER
9	DE	178	ILE
9	DE	211	CYS
9	DE	213	ILE
9	DE	223	PHE
9	DE	225	ASP
9	DE	227	GLU
9	DE	229	SER
9	DE	231	THR
9	DE	245	SER
9	DE	247	VAL
9	DE	289	LEU
9	DE	297	ASP
9	DE	307	GLU
9	DE	310	GLU
9	DE	337	GLN
9	DE	344	GLU
10	EE	65	ILE
10	EE	67	THR
10	EE	68	GLU
10	EE	69	ARG
10	EE	71	ASP
11	FE	17	VAL
11	FE	20	LEU
11	FE	33	LEU
11	FE	42	ILE
12	HE	16	SER
12	HE	58	VAL
13	IE	1	MET
13	IE	2	VAL
13	IE	6	ILE
13	IE	9	ASN
13	IE	10	ILE
13	IE	16	VAL
13	IE	18	LEU
13	IE	26	ASN
13	IE	28	PRO
13	IE	30	ARG

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Mol	Chain	Res	Type
13	IE	31	ASN
13	IE	33	LYS
13	IE	35	ARG
14	JE	4	ASP
14	JE	6	LYS
14	JE	7	LEU
14	JE	9	LEU
15	KE	9	LYS
15	KE	16	ILE
15	KE	26	VAL
16	LE	1	MET
16	LE	2	ASP
16	LE	9	LYS
16	LE	18	SER
16	LE	23	LEU
16	LE	28	VAL
17	ME	2	GLU
17	ME	3	VAL
17	ME	4	ASN
17	ME	5	ASP
17	ME	6	LEU
17	ME	11	SER
17	ME	13	LEU
17	ME	16	LEU
17	ME	17	VAL
17	ME	20	VAL
17	ME	23	LEU
17	ME	31	SER
18	OE	34	THR
18	OE	38	ILE
18	OE	65	SER
18	OE	69	THR
18	OE	71	LEU
18	OE	72	CYS
18	OE	78	TYR
18	OE	83	GLU
18	OE	87	LYS
18	OE	88	ARG
18	OE	101	ARG
18	OE	106	LEU
18	OE	108	GLN
18	OE	126	LYS

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Mol	Chain	Res	Type
18	OE	150	ILE
18	OE	153	LEU
18	OE	161	LEU
18	OE	167	SER
18	OE	182	SER
18	OE	192	LEU
18	OE	202	LEU
18	OE	218	LEU
18	OE	229	SER
18	OE	230	LEU
18	OE	236	ASP
18	OE	238	GLU
18	OE	259	LYS
19	QE	37	GLN
19	QE	38	LEU
19	QE	46	SER
19	QE	49	VAL
19	QE	55	SER
19	QE	56	THR
19	QE	61	SER
19	QE	64	GLN
19	QE	69	ILE
19	QE	72	ASP
19	QE	73	ASN
19	QE	82	VAL
19	QE	83	LEU
19	QE	85	GLU
19	QE	87	ASN
19	QE	90	VAL
19	QE	102	ARG
19	QE	103	LYS
19	QE	104	LEU
19	QE	105	SER
19	QE	110	GLU
19	QE	113	GLN
19	QE	114	ASP
19	QE	115	MET
19	QE	116	SER
19	QE	121	LYS
19	QE	136	LYS
19	QE	137	ASP
19	QE	138	LEU

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Mol	Chain	Res	Type
19	QE	140	LEU
20	RE	2	ASP
20	RE	3	LEU
20	RE	7	VAL
20	RE	9	LEU
20	RE	10	LEU
20	RE	12	LEU
20	RE	23	ILE
23	UE	38	LEU
23	UE	40	LYS
23	UE	58	SER
23	UE	90	LEU
23	UE	109	GLU
23	UE	119	LEU
23	UE	121	GLU
23	UE	125	ARG
24	VE	26	LEU
24	VE	32	LEU
24	VE	40	GLN
24	VE	45	VAL
24	VE	49	LYS
24	VE	52	LYS
24	VE	53	LYS
24	VE	80	SER
24	VE	105	THR
24	VE	115	GLU
24	VE	135	ASP
24	VE	154	GLN
24	VE	159	LYS
24	VE	160	TYR
25	XE	1	MET
25	XE	2	THR
25	XE	17	LEU
25	XE	21	VAL
25	XE	27	LEU
25	XE	30	ILE
25	XE	40	SER
26	YE	66	ILE
26	YE	68	GLN
26	YE	69	LEU
26	YE	70	LEU
26	YE	73	SER

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Mol	Chain	Res	Type
26	YE	74	LEU
26	YE	76	VAL
26	YE	77	ILE
26	YE	82	VAL
26	YE	93	LEU
27	ZE	4	LEU
27	ZE	7	VAL
27	ZE	23	VAL
27	ZE	31	GLN
27	ZE	32	ASN
27	ZE	33	TRP
27	ZE	35	GLN
27	ZE	37	LYS
27	ZE	40	ILE
27	ZE	42	ILE
27	ZE	50	LEU
27	ZE	51	VAL
27	ZE	52	ILE
27	ZE	56	VAL
28	EF	105	ASN
28	EF	110	LYS
28	EF	115	MET
28	EF	121	TYR
28	EF	125	LYS
28	EF	127	THR
28	EF	129	ASN
28	EF	130	ARG
28	EF	131	ARG
28	EF	132	ARG
28	EF	135	PRO
28	EF	141	ARG
28	EF	142	ASP
28	EF	143	MET
28	EF	145	ARG
28	EF	146	GLN
28	EF	147	MET
28	EF	150	LYS
4	IF	76	ARG
4	IF	83	ARG
4	KF	39	ARG
4	KF	116	TYR
5	NF	15	ARG

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Mol	Chain	Res	Type
3	XF	83	ARG
4	YF	75	THR
4	YF	76	ARG
4	YF	77	ARG
28	BG	105	ASN
28	BG	108	MET
28	BG	110	LYS
28	BG	116	THR
28	BG	117	PHE
28	BG	119	THR
28	BG	120	ASP
28	BG	121	TYR
28	BG	122	LEU
28	BG	123	LEU
28	BG	125	LYS
28	BG	129	ASN
28	BG	130	ARG
28	BG	131	ARG
28	BG	132	ARG
28	BG	137	MET
28	BG	139	MET
28	BG	141	ARG
28	BG	142	ASP
28	BG	143	MET
28	BG	145	ARG
28	BG	146	GLN
28	BG	147	MET
28	BG	150	LYS
3	IG	29	PHE
3	IG	83	ARG
3	IG	155	TYR
4	LG	77	ARG
4	MG	81	CYS
3	PG	81	CYS
29	QG	10	LYS
29	QG	11	ASN
29	QG	65	GLU
29	QG	135	LYS
29	QG	148	GLU
29	QG	149	VAL
29	QG	153	LEU
29	QG	155	GLN

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Mol	Chain	Res	Type
4	SG	147	LYS
30	VG	10	LYS
30	VG	16	ARG
30	VG	24	LYS
30	VG	53	ARG
30	VG	156	ILE
4	WG	153	PHE
1	BH	196	GLN
1	BH	200	GLN
1	BH	201	THR
1	BH	206	PHE
1	BH	207	VAL
1	BH	209	GLN
1	BH	211	LYS
1	BH	220	ASN
1	BH	222	LEU
1	BH	224	MET
1	BH	226	LYS
1	BH	227	GLN
1	BH	228	VAL
1	BH	229	SER
1	BH	230	ARG
1	BH	233	ASN
1	BH	234	THR
1	BH	235	VAL
1	BH	236	THR
1	BH	237	ARG
1	BH	240	LEU
1	BI	189	ARG
1	BI	191	GLN
1	BI	195	PRO
1	BI	198	ILE
1	BI	200	GLN
1	BI	203	VAL
1	BI	205	ARG
1	BI	209	GLN
1	BI	210	GLU
1	BI	211	LYS
1	BI	212	GLN
1	BI	214	LYS
1	BI	224	MET
1	BI	227	GLN

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Mol	Chain	Res	Type
1	BI	233	ASN
1	BI	234	THR
1	BI	235	VAL
1	BI	237	ARG
1	BI	238	VAL
1	BI	240	LEU
1	BJ	194	PHE
1	BJ	196	GLN
1	BJ	200	GLN
1	BJ	201	THR
1	BJ	206	PHE
1	BJ	207	VAL
1	BJ	209	GLN
1	BJ	211	LYS
1	BJ	220	ASN
1	BJ	222	LEU
1	BJ	224	MET
1	BJ	226	LYS
1	BJ	227	GLN
1	BJ	228	VAL
1	BJ	229	SER
1	BJ	230	ARG
1	BJ	233	ASN
1	BJ	234	THR
1	BJ	235	VAL
1	BJ	236	THR
1	BJ	237	ARG
1	BJ	240	LEU
28	EK	105	ASN
28	EK	110	LYS
28	EK	115	MET
28	EK	121	TYR
28	EK	125	LYS
28	EK	127	THR
28	EK	129	ASN
28	EK	130	ARG
28	EK	131	ARG
28	EK	132	ARG
28	EK	135	PRO
28	EK	141	ARG
28	EK	142	ASP
28	EK	143	MET

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Mol	Chain	Res	Type
28	EK	145	ARG
28	EK	146	GLN
28	EK	147	MET
28	EK	150	LYS
4	IK	63	SER
4	IK	76	ARG
4	IK	83	ARG
3	JK	83	ARG
4	KK	39	ARG
4	KK	116	TYR
5	NK	15	ARG
3	XK	83	ARG
4	YK	75	THR
4	YK	76	ARG
4	YK	77	ARG
28	BL	105	ASN
28	BL	108	MET
28	BL	110	LYS
28	BL	116	THR
28	BL	117	PHE
28	BL	119	THR
28	BL	120	ASP
28	BL	121	TYR
28	BL	122	LEU
28	BL	123	LEU
28	BL	125	LYS
28	BL	129	ASN
28	BL	130	ARG
28	BL	131	ARG
28	BL	132	ARG
28	BL	137	MET
28	BL	139	MET
28	BL	141	ARG
28	BL	142	ASP
28	BL	143	MET
28	BL	145	ARG
28	BL	146	GLN
28	BL	147	MET
28	BL	150	LYS
3	IL	28	SER
3	IL	29	PHE
3	IL	62	ARG

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Mol	Chain	Res	Type
3	IL	128	GLU
3	IL	155	TYR
4	LL	77	ARG
4	ML	81	CYS
3	NL	121	THR
3	PL	81	CYS
29	QL	10	LYS
29	QL	11	ASN
29	QL	65	GLU
29	QL	135	LYS
29	QL	148	GLU
29	QL	149	VAL
29	QL	153	LEU
29	QL	155	GLN
4	SL	147	LYS
30	VL	10	LYS
30	VL	16	ARG
30	VL	24	LYS
30	VL	53	ARG
30	VL	156	ILE
4	WL	153	PHE
7	B1	14	ASN
7	B1	24	LEU
7	B1	39	LEU
7	B1	55	MET
7	B1	68	ARG
7	B1	73	GLN
7	B1	84	VAL
7	B1	87	ASN
7	B1	96	VAL
7	B1	99	THR
7	B1	102	ILE
7	B1	104	SER
7	B1	106	LEU
7	B1	119	ASP
7	B1	121	GLU
7	B1	128	THR
7	B1	138	MET
7	B1	145	LEU
7	B1	146	SER
7	B1	184	SER
7	B1	207	ILE

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Mol	Chain	Res	Type
7	B1	214	LEU
7	B1	218	SER
7	B1	234	ILE
7	B1	236	THR
7	B1	237	VAL
7	B1	239	SER
7	B1	241	SER
7	B1	246	PHE
7	B1	251	VAL
7	B1	252	VAL
7	B1	271	THR
7	B1	272	ARG
7	B1	284	ILE
7	B1	290	SER
7	B1	291	SER
7	B1	299	SER
7	B1	357	ARG
7	B1	364	GLU
7	B1	365	THR
7	B1	372	ASP
7	B1	391	SER
7	B1	400	SER
7	B1	406	LEU
7	B1	412	THR
7	B1	416	SER
7	B1	436	THR
7	B1	439	SER
7	B1	446	SER
7	B1	460	LEU
7	B1	461	LEU
7	B1	471	SER
7	B1	474	ILE
7	B1	477	ASP
7	B1	491	GLU
7	B1	495	PHE
7	B1	496	GLN
7	B1	497	LYS
7	B1	498	VAL
7	B1	500	ASP
7	B1	501	GLN
7	B1	503	THR
8	C1	10	LEU

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Mol	Chain	Res	Type
8	C1	13	ARG
8	C1	14	ASP
8	C1	63	VAL
8	C1	127	LEU
8	C1	129	GLU
8	C1	131	SER
8	C1	133	PHE
8	C1	191	LEU
8	C1	192	ASN
8	C1	195	VAL
8	C1	307	ARG
8	C1	309	GLN
8	C1	310	LYS
8	C1	311	LEU
8	C1	315	ILE
8	C1	319	GLN
8	C1	394	VAL
8	C1	397	ILE
8	C1	402	GLN
8	C1	404	PHE
8	C1	406	TYR
9	D1	17	VAL
9	D1	25	ASP
9	D1	50	THR
9	D1	60	THR
9	D1	65	SER
9	D1	66	SER
9	D1	68	LEU
9	D1	84	SER
9	D1	85	LEU
9	D1	88	SER
9	D1	93	TRP
9	D1	96	GLU
9	D1	100	ASP
9	D1	101	PHE
9	D1	103	ARG
9	D1	106	GLN
9	D1	107	LEU
9	D1	110	LEU
9	D1	111	TRP
9	D1	116	LEU
9	D1	123	ILE

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Mol	Chain	Res	Type
9	D1	127	LEU
9	D1	139	ARG
9	D1	155	SER
9	D1	172	SER
9	D1	178	ILE
9	D1	211	CYS
9	D1	213	ILE
9	D1	223	PHE
9	D1	225	ASP
9	D1	227	GLU
9	D1	229	SER
9	D1	231	THR
9	D1	245	SER
9	D1	247	VAL
9	D1	289	LEU
9	D1	297	ASP
9	D1	307	GLU
9	D1	310	GLU
9	D1	337	GLN
9	D1	344	GLU
10	E1	65	ILE
10	E1	67	THR
10	E1	68	GLU
10	E1	69	ARG
10	E1	71	ASP
11	F1	10	ILE
11	F1	11	THR
11	F1	17	VAL
11	F1	20	LEU
11	F1	33	LEU
11	F1	42	ILE
12	H1	58	VAL
13	I1	1	MET
13	I1	2	VAL
13	I1	6	ILE
13	I1	9	ASN
13	I1	10	ILE
13	I1	16	VAL
13	I1	18	LEU
13	I1	26	ASN
13	I1	28	PRO
13	I1	30	ARG

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Mol	Chain	Res	Type
13	I1	33	LYS
13	I1	35	ARG
14	J1	4	ASP
14	J1	6	LYS
14	J1	7	LEU
14	J1	9	LEU
15	K1	9	LYS
15	K1	16	ILE
15	K1	26	VAL
16	L1	1	MET
16	L1	2	ASP
16	L1	9	LYS
16	L1	18	SER
16	L1	23	LEU
16	L1	28	VAL
17	M1	2	GLU
17	M1	3	VAL
17	M1	4	ASN
17	M1	5	ASP
17	M1	6	LEU
17	M1	11	SER
17	M1	13	LEU
17	M1	16	LEU
17	M1	17	VAL
17	M1	20	VAL
17	M1	23	LEU
17	M1	31	SER
18	O1	34	THR
18	O1	38	ILE
18	O1	55	ARG
18	O1	65	SER
18	O1	69	THR
18	O1	71	LEU
18	O1	72	CYS
18	O1	78	TYR
18	O1	83	GLU
18	O1	87	LYS
18	O1	88	ARG
18	O1	101	ARG
18	O1	106	LEU
18	O1	108	GLN
18	O1	126	LYS

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Mol	Chain	Res	Type
18	O1	150	ILE
18	O1	153	LEU
18	O1	161	LEU
18	O1	167	SER
18	O1	182	SER
18	O1	192	LEU
18	O1	202	LEU
18	O1	218	LEU
18	O1	229	SER
18	O1	230	LEU
18	O1	236	ASP
18	O1	238	GLU
18	O1	259	LYS
19	Q1	37	GLN
19	Q1	38	LEU
19	Q1	46	SER
19	Q1	49	VAL
19	Q1	55	SER
19	Q1	56	THR
19	Q1	61	SER
19	Q1	64	GLN
19	Q1	69	ILE
19	Q1	72	ASP
19	Q1	73	ASN
19	Q1	82	VAL
19	Q1	83	LEU
19	Q1	85	GLU
19	Q1	87	ASN
19	Q1	90	VAL
19	Q1	102	ARG
19	Q1	103	LYS
19	Q1	104	LEU
19	Q1	105	SER
19	Q1	110	GLU
19	Q1	113	GLN
19	Q1	114	ASP
19	Q1	115	MET
19	Q1	116	SER
19	Q1	121	LYS
19	Q1	136	LYS
19	Q1	137	ASP
19	Q1	138	LEU

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Mol	Chain	Res	Type
19	Q1	140	LEU
20	R1	2	ASP
20	R1	3	LEU
20	R1	7	VAL
20	R1	9	LEU
20	R1	10	LEU
20	R1	12	LEU
20	R1	23	ILE
23	U1	38	LEU
23	U1	40	LYS
23	U1	58	SER
23	U1	90	LEU
23	U1	109	GLU
23	U1	119	LEU
23	U1	121	GLU
23	U1	125	ARG
24	V1	26	LEU
24	V1	32	LEU
24	V1	40	GLN
24	V1	45	VAL
24	V1	49	LYS
24	V1	52	LYS
24	V1	53	LYS
24	V1	80	SER
24	V1	105	THR
24	V1	115	GLU
24	V1	135	ASP
24	V1	154	GLN
24	V1	155	TRP
24	V1	159	LYS
24	V1	160	TYR
25	X1	1	MET
25	X1	2	THR
25	X1	17	LEU
25	X1	21	VAL
25	X1	27	LEU
25	X1	30	ILE
25	X1	40	SER
26	Y1	66	ILE
26	Y1	68	GLN
26	Y1	69	LEU
26	Y1	70	LEU

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Mol	Chain	Res	Type
26	Y1	73	SER
26	Y1	74	LEU
26	Y1	76	VAL
26	Y1	77	ILE
26	Y1	82	VAL
26	Y1	93	LEU
27	Z1	4	LEU
27	Z1	7	VAL
27	Z1	23	VAL
27	Z1	31	GLN
27	Z1	32	ASN
27	Z1	33	TRP
27	Z1	35	GLN
27	Z1	37	LYS
27	Z1	40	ILE
27	Z1	42	ILE
27	Z1	50	LEU
27	Z1	51	VAL
27	Z1	52	ILE
27	Z1	56	VAL
6	a1	288	LEU
7	b1	14	ASN
7	b1	24	LEU
7	b1	39	LEU
7	b1	55	MET
7	b1	61	PHE
7	b1	68	ARG
7	b1	72	THR
7	b1	73	GLN
7	b1	80	LEU
7	b1	83	GLU
7	b1	84	VAL
7	b1	86	ASP
7	b1	94	GLU
7	b1	102	ILE
7	b1	104	SER
7	b1	106	LEU
7	b1	119	ASP
7	b1	121	GLU
7	b1	128	THR
7	b1	138	MET
7	b1	145	LEU

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Mol	Chain	Res	Type
7	b1	146	SER
7	b1	184	SER
7	b1	207	ILE
7	b1	214	LEU
7	b1	218	SER
7	b1	236	THR
7	b1	239	SER
7	b1	246	PHE
7	b1	251	VAL
7	b1	252	VAL
7	b1	271	THR
7	b1	272	ARG
7	b1	284	ILE
7	b1	290	SER
7	b1	296	ASP
7	b1	299	SER
7	b1	357	ARG
7	b1	364	GLU
7	b1	365	THR
7	b1	372	ASP
7	b1	391	SER
7	b1	400	SER
7	b1	406	LEU
7	b1	412	THR
7	b1	416	SER
7	b1	436	THR
7	b1	439	SER
7	b1	446	SER
7	b1	460	LEU
7	b1	461	LEU
7	b1	471	SER
7	b1	474	ILE
7	b1	477	ASP
7	b1	491	GLU
7	b1	495	PHE
7	b1	497	LYS
7	b1	498	VAL
8	c1	8	SER
8	c1	10	LEU
8	c1	13	ARG
8	c1	63	VAL
8	c1	79	LEU

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Mol	Chain	Res	Type
8	c1	125	GLU
8	c1	128	GLU
8	c1	130	TYR
8	c1	133	PHE
8	c1	141	LYS
8	c1	252	ILE
8	c1	259	LEU
8	c1	262	SER
8	c1	263	LEU
8	c1	266	LEU
8	c1	434	ARG
9	d1	17	VAL
9	d1	25	ASP
9	d1	50	THR
9	d1	60	THR
9	d1	65	SER
9	d1	66	SER
9	d1	68	LEU
9	d1	84	SER
9	d1	85	LEU
9	d1	88	SER
9	d1	96	GLU
9	d1	100	ASP
9	d1	101	PHE
9	d1	103	ARG
9	d1	107	LEU
9	d1	111	TRP
9	d1	116	LEU
9	d1	120	PHE
9	d1	123	ILE
9	d1	127	LEU
9	d1	139	ARG
9	d1	155	SER
9	d1	172	SER
9	d1	178	ILE
9	d1	211	CYS
9	d1	213	ILE
9	d1	225	ASP
9	d1	227	GLU
9	d1	230	ASN
9	d1	231	THR
9	d1	233	ARG

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Mol	Chain	Res	Type
9	d1	245	SER
9	d1	247	VAL
9	d1	289	LEU
9	d1	297	ASP
9	d1	307	GLU
9	d1	310	GLU
9	d1	337	GLN
9	d1	344	GLU
10	e1	71	ASP
10	e1	76	ILE
10	e1	77	GLN
10	e1	78	GLN
11	f1	17	VAL
11	f1	20	LEU
11	f1	36	ILE
11	f1	39	MET
11	f1	40	GLN
11	f1	42	ILE
12	h1	35	MET
13	i1	7	ILE
13	i1	11	VAL
13	i1	13	LEU
13	i1	15	PHE
13	i1	23	PHE
13	i1	24	LEU
13	i1	29	SER
13	i1	30	ARG
13	i1	33	LYS
13	i1	34	ARG
13	i1	35	ARG
15	k1	12	GLU
15	k1	26	VAL
15	k1	39	GLN
15	k1	42	VAL
15	k1	44	PHE
16	l1	1	MET
16	l1	2	ASP
16	l1	9	LYS
16	l1	18	SER
16	l1	23	LEU
16	l1	28	VAL
17	m1	2	GLU

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Mol	Chain	Res	Type
17	m1	3	VAL
17	m1	4	ASN
17	m1	5	ASP
17	m1	6	LEU
17	m1	11	SER
17	m1	13	LEU
17	m1	16	LEU
17	m1	17	VAL
17	m1	20	VAL
17	m1	23	LEU
17	m1	27	ILE
17	m1	29	THR
17	m1	30	GLN
17	m1	33	GLU
17	m1	36	GLU
18	o1	34	THR
18	o1	38	ILE
18	o1	65	SER
18	o1	69	THR
18	o1	71	LEU
18	o1	72	CYS
18	o1	78	TYR
18	o1	83	GLU
18	o1	87	LYS
18	o1	88	ARG
18	o1	101	ARG
18	o1	106	LEU
18	o1	108	GLN
18	o1	126	LYS
18	o1	150	ILE
18	o1	153	LEU
18	o1	161	LEU
18	o1	167	SER
18	o1	182	SER
18	o1	192	LEU
18	o1	202	LEU
18	o1	218	LEU
18	o1	229	SER
18	o1	230	LEU
18	o1	236	ASP
18	o1	238	GLU
18	o1	259	LYS

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Mol	Chain	Res	Type
19	q1	37	GLN
19	q1	38	LEU
19	q1	46	SER
19	q1	49	VAL
19	q1	55	SER
19	q1	56	THR
19	q1	61	SER
19	q1	64	GLN
19	q1	69	ILE
19	q1	72	ASP
19	q1	73	ASN
19	q1	82	VAL
19	q1	83	LEU
19	q1	85	GLU
19	q1	87	ASN
19	q1	90	VAL
19	q1	102	ARG
19	q1	103	LYS
19	q1	104	LEU
19	q1	105	SER
19	q1	110	GLU
19	q1	113	GLN
19	q1	114	ASP
19	q1	115	MET
19	q1	116	SER
19	q1	121	LYS
19	q1	136	LYS
19	q1	137	ASP
19	q1	138	LEU
19	q1	140	LEU
20	r1	2	ASP
20	r1	3	LEU
20	r1	7	VAL
20	r1	9	LEU
20	r1	10	LEU
20	r1	12	LEU
20	r1	23	ILE
23	u1	38	LEU
23	u1	40	LYS
23	u1	58	SER
23	u1	90	LEU
23	u1	109	GLU

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Mol	Chain	Res	Type
23	u1	119	LEU
23	u1	121	GLU
23	u1	125	ARG
24	v1	26	LEU
24	v1	32	LEU
24	v1	40	GLN
24	v1	45	VAL
24	v1	49	LYS
24	v1	52	LYS
24	v1	53	LYS
24	v1	80	SER
24	v1	105	THR
24	v1	115	GLU
24	v1	135	ASP
25	x1	1	MET
25	x1	2	THR
25	x1	17	LEU
25	x1	21	VAL
25	x1	27	LEU
25	x1	30	ILE
25	x1	40	SER
26	y1	63	PHE
26	y1	65	LEU
26	y1	66	ILE
26	y1	70	LEU
26	y1	71	MET
26	y1	72	LEU
26	y1	74	LEU
26	y1	76	VAL
26	y1	77	ILE
26	y1	82	VAL
26	y1	93	LEU
27	z1	4	LEU
27	z1	7	VAL
27	z1	23	VAL
27	z1	31	GLN
27	z1	32	ASN
27	z1	35	GLN
27	z1	40	ILE
27	z1	42	ILE
27	z1	50	LEU
27	z1	51	VAL

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Mol	Chain	Res	Type
27	z1	52	ILE
27	z1	56	VAL
31	b2	84	CYS
31	f2	84	CYS
31	h2	84	CYS
32	m2	82	CYS
32	m2	152	ASP
1	B2	195	PRO
1	B2	198	ILE
1	B2	199	TRP
1	B2	200	GLN
1	B2	201	THR
1	B2	205	ARG
1	B2	209	GLN
1	B2	210	GLU
1	B2	211	LYS
1	B2	212	GLN
1	B2	214	LYS
1	B2	224	MET
1	B2	227	GLN
1	B2	230	ARG
1	B2	233	ASN
1	B2	234	THR
1	B2	235	VAL
1	B2	237	ARG
1	B2	238	VAL
1	B2	240	LEU
31	b3	84	CYS
31	f3	84	CYS
31	h3	84	CYS
32	m3	82	CYS
32	m3	152	ASP
1	B3	199	TRP
1	B3	201	THR
1	B3	203	VAL
1	B3	205	ARG
1	B3	207	VAL
1	B3	208	PRO
1	B3	209	GLN
1	B3	210	GLU
1	B3	212	GLN
1	B3	214	LYS

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Mol	Chain	Res	Type
1	B3	220	ASN
1	B3	224	MET
1	B3	226	LYS
1	B3	227	GLN
1	B3	228	VAL
1	B3	230	ARG
1	B3	233	ASN
1	B3	234	THR
1	B3	236	THR
1	B3	238	VAL
1	B3	240	LEU
3	Z4	83	ARG
4	a4	52	VAL
4	a4	53	LYS
4	a4	54	GLU
4	a4	56	VAL
4	a4	58	LYS
4	a4	60	LEU
4	a4	61	LEU
4	a4	65	ILE
4	a4	67	ARG
4	a4	71	ASN
4	a4	72	MET
4	a4	83	ARG
5	b4	17	ARG
3	V4	113	ARG
3	s4	115	MET
3	u4	76	GLU
3	o4	83	ARG
3	q4	83	ARG
3	y4	16	ARG
3	y4	145	ASP
2	B4	74	ARG
2	B4	82	LEU
2	B4	84	PHE
2	B4	114	ILE
2	B4	116	TYR
2	B4	117	VAL
2	B4	120	ARG
2	B4	129	LYS
2	B4	130	SER
2	B4	131	LEU

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Mol	Chain	Res	Type
2	B4	133	GLN
2	B4	135	SER
2	B4	137	THR
2	B4	294	LYS
2	B4	303	ARG
2	B4	359	ARG
2	B4	419	CYS
2	B4	551	PHE
2	B4	728	LYS
2	B4	734	ARG
2	B4	735	ARG
2	B4	774	LYS
2	C4	13	ARG
2	C4	74	ARG
2	C4	85	LEU
2	C4	86	GLU
2	C4	294	LYS
2	C4	303	ARG
2	C4	359	ARG
2	C4	773	THR
2	C4	774	LYS
2	C4	775	LYS
3	O4	88	TYR
3	Q4	16	ARG
4	R4	53	LYS
1	B5	194	PHE
1	B5	196	GLN
1	B5	200	GLN
1	B5	201	THR
1	B5	206	PHE
1	B5	207	VAL
1	B5	209	GLN
1	B5	211	LYS
1	B5	220	ASN
1	B5	222	LEU
1	B5	224	MET
1	B5	226	LYS
1	B5	227	GLN
1	B5	228	VAL
1	B5	229	SER
1	B5	230	ARG
1	B5	233	ASN

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Mol	Chain	Res	Type
1	B5	234	THR
1	B5	235	VAL
1	B5	236	THR
1	B5	237	ARG
1	B5	240	LEU
31	b5	84	CYS
31	f5	84	CYS
31	h5	84	CYS
32	m5	82	CYS
32	m5	152	ASP
31	b6	84	CYS
31	f6	84	CYS
31	h6	84	CYS
32	m6	82	CYS
32	m6	152	ASP
1	B6	196	GLN
1	B6	199	TRP
1	B6	205	ARG
1	B6	209	GLN
1	B6	210	GLU
1	B6	211	LYS
1	B6	212	GLN
1	B6	214	LYS
1	B6	224	MET
1	B6	227	GLN
1	B6	230	ARG
1	B6	233	ASN
1	B6	234	THR
1	B6	235	VAL
1	B6	237	ARG
1	B6	238	VAL
1	B6	240	LEU
31	b7	84	CYS
31	f7	84	CYS
31	h7	84	CYS
32	m7	82	CYS
32	m7	152	ASP
1	B7	196	GLN
1	B7	197	VAL
1	B7	200	GLN
1	B7	203	VAL
1	B7	205	ARG

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Mol	Chain	Res	Type
1	B7	207	VAL
1	B7	208	PRO
1	B7	209	GLN
1	B7	210	GLU
1	B7	212	GLN
1	B7	214	LYS
1	B7	220	ASN
1	B7	224	MET
1	B7	226	LYS
1	B7	227	GLN
1	B7	228	VAL
1	B7	230	ARG
1	B7	233	ASN
1	B7	234	THR
1	B7	236	THR
1	B7	238	VAL
1	B7	240	LEU
1	B8	196	GLN
1	B8	200	GLN
1	B8	201	THR
1	B8	206	PHE
1	B8	207	VAL
1	B8	209	GLN
1	B8	211	LYS
1	B8	220	ASN
1	B8	222	LEU
1	B8	224	MET
1	B8	226	LYS
1	B8	227	GLN
1	B8	228	VAL
1	B8	229	SER
1	B8	230	ARG
1	B8	233	ASN
1	B8	234	THR
1	B8	235	VAL
1	B8	236	THR
1	B8	237	ARG
1	B8	240	LEU
31	b8	84	CYS
31	f8	84	CYS
31	h8	84	CYS
32	m8	82	CYS

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Mol	Chain	Res	Type
32	m8	152	ASP
31	b9	84	CYS
31	f9	84	CYS
31	h9	84	CYS
32	m9	82	CYS
32	m9	152	ASP
1	B9	198	ILE
1	B9	199	TRP
1	B9	200	GLN
1	B9	201	THR
1	B9	205	ARG
1	B9	209	GLN
1	B9	210	GLU
1	B9	211	LYS
1	B9	212	GLN
1	B9	214	LYS
1	B9	224	MET
1	B9	227	GLN
1	B9	233	ASN
1	B9	234	THR
1	B9	235	VAL
1	B9	237	ARG
1	B9	238	VAL
1	B9	240	LEU
31	bA	84	CYS
31	fA	84	CYS
31	hA	84	CYS
32	mA	82	CYS
32	mA	152	ASP
4	aB	58	LYS
4	aB	60	LEU
4	aB	62	TYR
4	aB	63	SER
4	aB	65	ILE
4	aB	67	ARG
4	aB	71	ASN
4	aB	72	MET
4	aB	83	ARG
5	bB	17	ARG
3	sB	115	MET
4	tB	67	ARG
3	uB	76	GLU

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Mol	Chain	Res	Type
3	wB	76	GLU
3	wB	83	ARG
3	qB	83	ARG
3	yB	16	ARG
3	yB	145	ASP
31	bC	84	CYS
31	fC	84	CYS
31	hC	84	CYS
32	mC	82	CYS
32	mC	152	ASP
6	aD	257	ARG
6	aD	288	LEU
7	bD	14	ASN
7	bD	24	LEU
7	bD	39	LEU
7	bD	55	MET
7	bD	68	ARG
7	bD	72	THR
7	bD	73	GLN
7	bD	80	LEU
7	bD	83	GLU
7	bD	84	VAL
7	bD	86	ASP
7	bD	94	GLU
7	bD	102	ILE
7	bD	104	SER
7	bD	106	LEU
7	bD	116	VAL
7	bD	119	ASP
7	bD	121	GLU
7	bD	128	THR
7	bD	138	MET
7	bD	145	LEU
7	bD	146	SER
7	bD	184	SER
7	bD	207	ILE
7	bD	214	LEU
7	bD	218	SER
7	bD	236	THR
7	bD	239	SER
7	bD	246	PHE
7	bD	251	VAL

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Mol	Chain	Res	Type
7	bD	252	VAL
7	bD	271	THR
7	bD	272	ARG
7	bD	284	ILE
7	bD	290	SER
7	bD	292	ILE
7	bD	296	ASP
7	bD	299	SER
7	bD	357	ARG
7	bD	364	GLU
7	bD	365	THR
7	bD	372	ASP
7	bD	391	SER
7	bD	400	SER
7	bD	406	LEU
7	bD	412	THR
7	bD	416	SER
7	bD	436	THR
7	bD	439	SER
7	bD	446	SER
7	bD	460	LEU
7	bD	461	LEU
7	bD	471	SER
7	bD	474	ILE
7	bD	477	ASP
7	bD	491	GLU
7	bD	492	TRP
7	bD	495	PHE
7	bD	497	LYS
7	bD	498	VAL
8	cD	8	SER
8	cD	10	LEU
8	cD	13	ARG
8	cD	63	VAL
8	cD	79	LEU
8	cD	128	GLU
8	cD	130	TYR
8	cD	133	PHE
8	cD	191	LEU
8	cD	192	ASN
8	cD	252	ILE
8	cD	256	GLU

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Mol	Chain	Res	Type
8	cD	259	LEU
8	cD	260	SER
8	cD	263	LEU
8	cD	434	ARG
9	dD	17	VAL
9	dD	25	ASP
9	dD	50	THR
9	dD	60	THR
9	dD	65	SER
9	dD	66	SER
9	dD	68	LEU
9	dD	84	SER
9	dD	85	LEU
9	dD	88	SER
9	dD	96	GLU
9	dD	100	ASP
9	dD	101	PHE
9	dD	103	ARG
9	dD	107	LEU
9	dD	111	TRP
9	dD	116	LEU
9	dD	120	PHE
9	dD	123	ILE
9	dD	127	LEU
9	dD	139	ARG
9	dD	155	SER
9	dD	172	SER
9	dD	178	ILE
9	dD	211	CYS
9	dD	213	ILE
9	dD	225	ASP
9	dD	227	GLU
9	dD	230	ASN
9	dD	231	THR
9	dD	233	ARG
9	dD	245	SER
9	dD	247	VAL
9	dD	289	LEU
9	dD	297	ASP
9	dD	307	GLU
9	dD	310	GLU
9	dD	337	GLN

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Mol	Chain	Res	Type
9	dD	344	GLU
10	eD	71	ASP
10	eD	76	ILE
10	eD	77	GLN
10	eD	78	GLN
11	fD	8	GLN
11	fD	10	ILE
11	fD	17	VAL
11	fD	20	LEU
11	fD	36	ILE
11	fD	39	MET
11	fD	40	GLN
11	fD	42	ILE
12	hD	35	MET
13	iD	7	ILE
13	iD	11	VAL
13	iD	13	LEU
13	iD	15	PHE
13	iD	23	PHE
13	iD	24	LEU
13	iD	29	SER
13	iD	30	ARG
13	iD	33	LYS
13	iD	34	ARG
13	iD	35	ARG
15	kD	12	GLU
15	kD	26	VAL
15	kD	39	GLN
15	kD	42	VAL
15	kD	44	PHE
16	lD	1	MET
16	lD	2	ASP
16	lD	9	LYS
16	lD	18	SER
16	lD	23	LEU
16	lD	28	VAL
17	mD	2	GLU
17	mD	3	VAL
17	mD	4	ASN
17	mD	5	ASP
17	mD	6	LEU
17	mD	11	SER

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Mol	Chain	Res	Type
17	mD	13	LEU
17	mD	16	LEU
17	mD	17	VAL
17	mD	20	VAL
17	mD	23	LEU
17	mD	27	ILE
17	mD	29	THR
17	mD	30	GLN
17	mD	33	GLU
17	mD	36	GLU
18	oD	34	THR
18	oD	38	ILE
18	oD	55	ARG
18	oD	65	SER
18	oD	69	THR
18	oD	71	LEU
18	oD	72	CYS
18	oD	78	TYR
18	oD	83	GLU
18	oD	87	LYS
18	oD	88	ARG
18	oD	101	ARG
18	oD	106	LEU
18	oD	108	GLN
18	oD	126	LYS
18	oD	150	ILE
18	oD	153	LEU
18	oD	161	LEU
18	oD	167	SER
18	oD	182	SER
18	oD	192	LEU
18	oD	202	LEU
18	oD	218	LEU
18	oD	229	SER
18	oD	230	LEU
18	oD	236	ASP
18	oD	238	GLU
18	oD	259	LYS
19	qD	37	GLN
19	qD	38	LEU
19	qD	46	SER
19	qD	49	VAL

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Mol	Chain	Res	Type
19	qD	55	SER
19	qD	56	THR
19	qD	61	SER
19	qD	64	GLN
19	qD	69	ILE
19	qD	72	ASP
19	qD	73	ASN
19	qD	82	VAL
19	qD	83	LEU
19	qD	85	GLU
19	qD	87	ASN
19	qD	90	VAL
19	qD	102	ARG
19	qD	103	LYS
19	qD	104	LEU
19	qD	105	SER
19	qD	110	GLU
19	qD	113	GLN
19	qD	114	ASP
19	qD	115	MET
19	qD	116	SER
19	qD	121	LYS
19	qD	136	LYS
19	qD	137	ASP
19	qD	138	LEU
19	qD	140	LEU
20	rD	2	ASP
20	rD	3	LEU
20	rD	7	VAL
20	rD	9	LEU
20	rD	10	LEU
20	rD	12	LEU
20	rD	23	ILE
23	uD	38	LEU
23	uD	40	LYS
23	uD	58	SER
23	uD	90	LEU
23	uD	109	GLU
23	uD	119	LEU
23	uD	121	GLU
23	uD	125	ARG
24	vD	26	LEU

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Mol	Chain	Res	Type
24	vD	32	LEU
24	vD	40	GLN
24	vD	45	VAL
24	vD	49	LYS
24	vD	52	LYS
24	vD	53	LYS
24	vD	80	SER
24	vD	105	THR
24	vD	115	GLU
24	vD	135	ASP
25	xD	1	MET
25	xD	2	THR
25	xD	17	LEU
25	xD	21	VAL
25	xD	27	LEU
25	xD	30	ILE
25	xD	40	SER
26	yD	63	PHE
26	yD	65	LEU
26	yD	66	ILE
26	yD	70	LEU
26	yD	71	MET
26	yD	72	LEU
26	yD	74	LEU
26	yD	76	VAL
26	yD	77	ILE
26	yD	82	VAL
26	yD	93	LEU
27	zD	4	LEU
27	zD	7	VAL
27	zD	23	VAL
27	zD	31	GLN
27	zD	32	ASN
27	zD	35	GLN
27	zD	40	ILE
27	zD	42	ILE
27	zD	50	LEU
27	zD	51	VAL
27	zD	52	ILE
27	zD	56	VAL
6	aE	288	LEU
7	bE	14	ASN

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Mol	Chain	Res	Type
7	bE	24	LEU
7	bE	39	LEU
7	bE	55	MET
7	bE	68	ARG
7	bE	72	THR
7	bE	73	GLN
7	bE	80	LEU
7	bE	83	GLU
7	bE	84	VAL
7	bE	86	ASP
7	bE	94	GLU
7	bE	102	ILE
7	bE	104	SER
7	bE	106	LEU
7	bE	116	VAL
7	bE	119	ASP
7	bE	121	GLU
7	bE	128	THR
7	bE	138	MET
7	bE	145	LEU
7	bE	146	SER
7	bE	184	SER
7	bE	207	ILE
7	bE	214	LEU
7	bE	218	SER
7	bE	236	THR
7	bE	239	SER
7	bE	246	PHE
7	bE	251	VAL
7	bE	252	VAL
7	bE	271	THR
7	bE	272	ARG
7	bE	284	ILE
7	bE	290	SER
7	bE	292	ILE
7	bE	296	ASP
7	bE	299	SER
7	bE	357	ARG
7	bE	364	GLU
7	bE	365	THR
7	bE	372	ASP
7	bE	391	SER

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Mol	Chain	Res	Type
7	bE	400	SER
7	bE	406	LEU
7	bE	412	THR
7	bE	416	SER
7	bE	436	THR
7	bE	439	SER
7	bE	446	SER
7	bE	460	LEU
7	bE	461	LEU
7	bE	471	SER
7	bE	474	ILE
7	bE	477	ASP
7	bE	491	GLU
7	bE	492	TRP
7	bE	495	PHE
7	bE	497	LYS
7	bE	498	VAL
8	cE	8	SER
8	cE	10	LEU
8	cE	13	ARG
8	cE	63	VAL
8	cE	79	LEU
8	cE	128	GLU
8	cE	130	TYR
8	cE	133	PHE
8	cE	253	TRP
8	cE	256	GLU
8	cE	262	SER
8	cE	263	LEU
8	cE	266	LEU
8	cE	434	ARG
9	dE	17	VAL
9	dE	25	ASP
9	dE	50	THR
9	dE	60	THR
9	dE	65	SER
9	dE	66	SER
9	dE	68	LEU
9	dE	84	SER
9	dE	85	LEU
9	dE	88	SER
9	dE	96	GLU

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Mol	Chain	Res	Type
9	dE	100	ASP
9	dE	101	PHE
9	dE	103	ARG
9	dE	107	LEU
9	dE	111	TRP
9	dE	116	LEU
9	dE	120	PHE
9	dE	123	ILE
9	dE	127	LEU
9	dE	139	ARG
9	dE	155	SER
9	dE	172	SER
9	dE	178	ILE
9	dE	211	CYS
9	dE	213	ILE
9	dE	225	ASP
9	dE	227	GLU
9	dE	230	ASN
9	dE	231	THR
9	dE	233	ARG
9	dE	245	SER
9	dE	247	VAL
9	dE	289	LEU
9	dE	297	ASP
9	dE	307	GLU
9	dE	310	GLU
9	dE	337	GLN
9	dE	344	GLU
10	eE	71	ASP
10	eE	76	ILE
10	eE	77	GLN
10	eE	78	GLN
11	fE	17	VAL
11	fE	20	LEU
11	fE	36	ILE
11	fE	39	MET
11	fE	40	GLN
11	fE	42	ILE
12	hE	35	MET
13	iE	7	ILE
13	iE	11	VAL
13	iE	13	LEU

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Mol	Chain	Res	Type
13	iE	15	PHE
13	iE	23	PHE
13	iE	24	LEU
13	iE	29	SER
13	iE	30	ARG
13	iE	33	LYS
13	iE	34	ARG
13	iE	35	ARG
15	kE	12	GLU
15	kE	26	VAL
15	kE	39	GLN
15	kE	42	VAL
15	kE	44	PHE
16	lE	1	MET
16	lE	2	ASP
16	lE	9	LYS
16	lE	18	SER
16	lE	23	LEU
16	lE	28	VAL
17	mE	2	GLU
17	mE	3	VAL
17	mE	4	ASN
17	mE	5	ASP
17	mE	6	LEU
17	mE	11	SER
17	mE	13	LEU
17	mE	16	LEU
17	mE	17	VAL
17	mE	20	VAL
17	mE	23	LEU
17	mE	27	ILE
17	mE	29	THR
17	mE	30	GLN
17	mE	33	GLU
17	mE	36	GLU
18	oE	34	THR
18	oE	38	ILE
18	oE	55	ARG
18	oE	65	SER
18	oE	69	THR
18	oE	71	LEU
18	oE	72	CYS

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Mol	Chain	Res	Type
18	oE	78	TYR
18	oE	83	GLU
18	oE	87	LYS
18	oE	88	ARG
18	oE	101	ARG
18	oE	106	LEU
18	oE	108	GLN
18	oE	126	LYS
18	oE	150	ILE
18	oE	153	LEU
18	oE	161	LEU
18	oE	167	SER
18	oE	182	SER
18	oE	192	LEU
18	oE	202	LEU
18	oE	218	LEU
18	oE	229	SER
18	oE	230	LEU
18	oE	236	ASP
18	oE	238	GLU
18	oE	259	LYS
19	qE	37	GLN
19	qE	38	LEU
19	qE	46	SER
19	qE	49	VAL
19	qE	55	SER
19	qE	56	THR
19	qE	61	SER
19	qE	64	GLN
19	qE	69	ILE
19	qE	72	ASP
19	qE	73	ASN
19	qE	82	VAL
19	qE	83	LEU
19	qE	85	GLU
19	qE	87	ASN
19	qE	90	VAL
19	qE	102	ARG
19	qE	103	LYS
19	qE	104	LEU
19	qE	105	SER
19	qE	110	GLU

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Mol	Chain	Res	Type
19	qE	113	GLN
19	qE	114	ASP
19	qE	115	MET
19	qE	116	SER
19	qE	121	LYS
19	qE	136	LYS
19	qE	137	ASP
19	qE	138	LEU
19	qE	140	LEU
20	rE	2	ASP
20	rE	3	LEU
20	rE	7	VAL
20	rE	9	LEU
20	rE	10	LEU
20	rE	12	LEU
20	rE	23	ILE
23	uE	38	LEU
23	uE	40	LYS
23	uE	58	SER
23	uE	90	LEU
23	uE	109	GLU
23	uE	119	LEU
23	uE	121	GLU
23	uE	125	ARG
24	vE	26	LEU
24	vE	32	LEU
24	vE	40	GLN
24	vE	45	VAL
24	vE	49	LYS
24	vE	52	LYS
24	vE	53	LYS
24	vE	80	SER
24	vE	105	THR
24	vE	115	GLU
24	vE	135	ASP
25	xE	1	MET
25	xE	2	THR
25	xE	17	LEU
25	xE	21	VAL
25	xE	27	LEU
25	xE	30	ILE
25	xE	40	SER

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Mol	Chain	Res	Type
26	yE	63	PHE
26	yE	65	LEU
26	yE	66	ILE
26	yE	70	LEU
26	yE	71	MET
26	yE	72	LEU
26	yE	74	LEU
26	yE	76	VAL
26	yE	77	ILE
26	yE	82	VAL
26	yE	93	LEU
27	zE	4	LEU
27	zE	7	VAL
27	zE	23	VAL
27	zE	31	GLN
27	zE	32	ASN
27	zE	35	GLN
27	zE	40	ILE
27	zE	42	ILE
27	zE	50	LEU
27	zE	51	VAL
27	zE	52	ILE
27	zE	56	VAL
29	gF	10	LYS
29	gF	11	ASN
29	gF	133	ILE
29	gF	134	LEU
29	gF	135	LYS
29	gF	136	ASP
29	gF	148	GLU
29	gF	153	LEU
4	hF	1	MET
4	hF	67	ARG
4	hF	81	CYS
30	mF	10	LYS
30	mF	24	LYS
30	mF	53	ARG
3	6G	80	THR
3	6G	81	CYS
5	8G	38	ARG
31	bH	84	CYS
31	fH	84	CYS

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Mol	Chain	Res	Type
31	hH	84	CYS
32	mH	82	CYS
32	mH	152	ASP
31	bI	84	CYS
31	fI	84	CYS
31	hI	84	CYS
32	mI	82	CYS
32	mI	152	ASP
31	bJ	84	CYS
31	fJ	84	CYS
31	hJ	84	CYS
32	mJ	82	CYS
32	mJ	152	ASP
29	gK	10	LYS
29	gK	11	ASN
29	gK	133	ILE
29	gK	134	LEU
29	gK	135	LYS
29	gK	136	ASP
29	gK	148	GLU
29	gK	153	LEU
4	hK	1	MET
4	hK	81	CYS
30	mK	10	LYS
30	mK	24	LYS
30	mK	53	ARG
4	1L	63	SER
4	1L	66	THR
4	1L	67	ARG
3	6L	80	THR
3	6L	81	CYS
5	8L	38	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (491) such sidechains are listed below:

Mol	Chain	Res	Type
1	BA	200	GLN
1	BA	209	GLN
1	BA	212	GLN
1	BA	227	GLN
1	BA	233	ASN
2	BB	73	ASN

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Mol	Chain	Res	Type
2	BB	133	GLN
2	BB	151	ASN
2	BB	189	ASN
2	BB	255	GLN
2	BB	299	GLN
2	BB	322	ASN
2	BB	578	GLN
2	BB	729	GLN
2	BB	737	GLN
2	BB	786	ASN
2	BB	840	ASN
2	BB	897	ASN
2	CB	151	ASN
2	CB	189	ASN
2	CB	299	GLN
2	CB	544	ASN
2	CB	578	GLN
2	CB	587	ASN
2	CB	897	ASN
2	CB	911	ASN
4	PB	2	GLN
4	PB	15	GLN
3	QB	10	ASN
3	QB	57	GLN
4	RB	10	ASN
5	UB	41	GLN
4	WB	128	GLN
1	BC	209	GLN
1	BC	212	GLN
1	BC	233	ASN
6	AD	26	ASN
6	AD	165	GLN
6	AD	181	ASN
6	AD	303	ASN
6	AD	322	ASN
7	BD	114	HIS
7	BD	191	ASN
7	BD	317	ASN
7	BD	394	GLN
7	BD	496	GLN
8	CD	71	GLN
8	CD	298	GLN

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Mol	Chain	Res	Type
8	CD	375	GLN
8	CD	417	HIS
9	DD	98	GLN
9	DD	129	GLN
9	DD	186	GLN
9	DD	292	ASN
10	ED	61	GLN
10	ED	77	GLN
12	HD	50	ASN
13	ID	26	ASN
13	ID	31	ASN
17	MD	28	GLN
17	MD	30	GLN
18	OD	158	GLN
19	QD	92	ASN
24	VD	38	ASN
24	VD	154	GLN
25	XD	7	ASN
26	YD	68	GLN
27	ZD	58	ASN
6	AE	26	ASN
6	AE	165	GLN
6	AE	181	ASN
6	AE	303	ASN
6	AE	322	ASN
7	BE	114	HIS
7	BE	191	ASN
7	BE	317	ASN
7	BE	394	GLN
7	BE	496	GLN
8	CE	71	GLN
8	CE	298	GLN
8	CE	375	GLN
8	CE	417	HIS
9	DE	98	GLN
9	DE	129	GLN
9	DE	186	GLN
9	DE	292	ASN
10	EE	61	GLN
10	EE	77	GLN
12	HE	50	ASN
13	IE	26	ASN

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Mol	Chain	Res	Type
13	IE	31	ASN
17	ME	28	GLN
17	ME	30	GLN
18	OE	158	GLN
19	QE	92	ASN
19	QE	98	GLN
24	VE	38	ASN
25	XE	7	ASN
26	YE	68	GLN
27	ZE	58	ASN
28	EF	105	ASN
4	IF	47	ASN
3	JF	56	ASN
4	KF	2	GLN
4	MF	71	ASN
4	MF	131	GLN
5	NF	35	ASN
5	NF	41	GLN
4	HG	50	ASN
3	IG	71	ASN
4	JG	25	GLN
4	JG	50	ASN
4	OG	47	ASN
4	OG	71	ASN
4	SG	10	ASN
1	BH	200	GLN
1	BH	233	ASN
1	BI	188	HIS
1	BI	200	GLN
1	BI	209	GLN
1	BI	227	GLN
1	BJ	233	ASN
28	EK	105	ASN
4	IK	47	ASN
3	JK	56	ASN
4	KK	2	GLN
4	MK	71	ASN
4	MK	131	GLN
5	NK	35	ASN
5	NK	41	GLN
4	HL	50	ASN
3	IL	71	ASN

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Mol	Chain	Res	Type
4	JL	25	GLN
4	JL	50	ASN
4	OL	47	ASN
4	OL	71	ASN
4	SL	10	ASN
3	TL	60	GLN
6	A1	26	ASN
6	A1	165	GLN
6	A1	181	ASN
6	A1	303	ASN
6	A1	322	ASN
7	B1	114	HIS
7	B1	191	ASN
7	B1	317	ASN
7	B1	394	GLN
7	B1	496	GLN
8	C1	71	GLN
8	C1	298	GLN
8	C1	375	GLN
8	C1	417	HIS
9	D1	98	GLN
9	D1	129	GLN
9	D1	186	GLN
9	D1	292	ASN
10	E1	61	GLN
10	E1	77	GLN
12	H1	50	ASN
13	I1	26	ASN
17	M1	28	GLN
17	M1	30	GLN
18	O1	158	GLN
19	Q1	92	ASN
24	V1	38	ASN
24	V1	154	GLN
25	X1	7	ASN
26	Y1	68	GLN
27	Z1	58	ASN
6	a1	92	HIS
6	a1	108	ASN
6	a1	165	GLN
6	a1	181	ASN
6	a1	266	ASN

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Mol	Chain	Res	Type
6	a1	322	ASN
6	a1	335	ASN
7	b1	87	ASN
7	b1	114	HIS
7	b1	191	ASN
7	b1	317	ASN
7	b1	394	GLN
8	c1	43	HIS
8	c1	238	HIS
8	c1	293	ASN
8	c1	365	ASN
9	d1	117	HIS
9	d1	129	GLN
9	d1	142	ASN
9	d1	186	GLN
9	d1	268	HIS
9	d1	292	ASN
13	i1	26	ASN
17	m1	28	GLN
18	o1	158	GLN
19	q1	92	ASN
24	v1	38	ASN
26	y1	68	GLN
27	z1	58	ASN
31	b2	73	ASN
32	c2	72	ASN
32	e2	72	ASN
31	h2	25	GLN
31	h2	73	ASN
32	i2	72	ASN
32	k2	72	ASN
31	l2	73	ASN
31	l2	78	GLN
32	m2	72	ASN
1	B2	227	GLN
31	b3	73	ASN
32	c3	72	ASN
32	e3	72	ASN
32	g3	72	ASN
31	h3	25	GLN
31	h3	73	ASN
32	i3	72	ASN

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Mol	Chain	Res	Type
32	k3	72	ASN
31	l3	73	ASN
32	m3	72	ASN
1	B3	209	GLN
1	B3	212	GLN
1	B3	227	GLN
4	a4	117	ASN
4	a4	131	GLN
5	b4	13	GLN
5	b4	19	GLN
5	b4	41	GLN
5	U4	41	GLN
3	V4	60	GLN
4	W4	128	GLN
3	u4	56	ASN
4	v4	71	ASN
4	p4	15	GLN
4	p4	110	ASN
4	x4	50	ASN
4	x4	71	ASN
4	x4	117	ASN
4	z4	50	ASN
2	B4	151	ASN
2	B4	189	ASN
2	B4	255	GLN
2	B4	299	GLN
2	B4	322	ASN
2	B4	578	GLN
2	B4	729	GLN
2	B4	737	GLN
2	B4	786	ASN
2	B4	840	ASN
2	B4	897	ASN
2	C4	151	ASN
2	C4	189	ASN
2	C4	299	GLN
2	C4	544	ASN
2	C4	578	GLN
2	C4	587	ASN
2	C4	897	ASN
2	C4	911	ASN
3	O4	56	ASN

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Mol	Chain	Res	Type
4	P4	2	GLN
4	P4	15	GLN
3	Q4	10	ASN
3	Q4	57	GLN
4	R4	10	ASN
1	B5	233	ASN
31	b5	73	ASN
32	c5	72	ASN
32	e5	72	ASN
32	g5	72	ASN
31	h5	25	GLN
31	h5	73	ASN
32	i5	72	ASN
32	k5	72	ASN
31	l5	73	ASN
32	m5	72	ASN
31	b6	73	ASN
32	c6	72	ASN
32	e6	72	ASN
32	g6	72	ASN
31	h6	25	GLN
31	h6	73	ASN
32	i6	72	ASN
32	k6	72	ASN
31	l6	73	ASN
32	m6	72	ASN
1	B6	209	GLN
1	B6	227	GLN
31	b7	73	ASN
32	c7	72	ASN
32	e7	72	ASN
32	g7	72	ASN
31	h7	25	GLN
31	h7	73	ASN
32	i7	72	ASN
32	k7	72	ASN
31	l7	73	ASN
32	m7	72	ASN
1	B7	200	GLN
1	B7	209	GLN
1	B7	212	GLN
1	B7	233	ASN

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Mol	Chain	Res	Type
1	B8	200	GLN
1	B8	233	ASN
31	b8	70	GLN
31	b8	73	ASN
32	c8	72	ASN
32	e8	72	ASN
32	g8	72	ASN
31	h8	25	GLN
31	h8	73	ASN
32	i8	72	ASN
32	k8	72	ASN
31	l8	73	ASN
32	m8	72	ASN
31	b9	73	ASN
32	c9	72	ASN
32	e9	72	ASN
32	g9	72	ASN
31	h9	25	GLN
31	h9	73	ASN
32	i9	72	ASN
32	k9	72	ASN
31	l9	73	ASN
32	m9	72	ASN
1	B9	196	GLN
1	B9	200	GLN
31	bA	73	ASN
32	cA	72	ASN
32	eA	72	ASN
32	gA	72	ASN
31	hA	25	GLN
31	hA	73	ASN
32	iA	72	ASN
31	jA	57	GLN
32	kA	72	ASN
31	lA	73	ASN
32	mA	72	ASN
4	aB	15	GLN
4	aB	117	ASN
4	aB	131	GLN
5	bB	13	GLN
5	bB	19	GLN
5	bB	41	GLN

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Mol	Chain	Res	Type
3	uB	56	ASN
4	vB	71	ASN
4	pB	15	GLN
4	pB	110	ASN
4	xB	50	ASN
4	xB	71	ASN
4	xB	117	ASN
4	zB	50	ASN
31	bC	73	ASN
32	cC	72	ASN
32	eC	72	ASN
32	gC	72	ASN
31	hC	25	GLN
31	hC	73	ASN
32	iC	72	ASN
32	kC	72	ASN
31	lC	73	ASN
32	mC	72	ASN
6	aD	92	HIS
6	aD	108	ASN
6	aD	165	GLN
6	aD	181	ASN
6	aD	266	ASN
6	aD	322	ASN
6	aD	335	ASN
7	bD	87	ASN
7	bD	114	HIS
7	bD	191	ASN
7	bD	317	ASN
7	bD	394	GLN
8	cD	238	HIS
8	cD	293	ASN
8	cD	365	ASN
9	dD	117	HIS
9	dD	129	GLN
9	dD	142	ASN
9	dD	186	GLN
9	dD	268	HIS
9	dD	292	ASN
11	fD	8	GLN
13	iD	26	ASN
17	mD	28	GLN

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Mol	Chain	Res	Type
18	oD	158	GLN
19	qD	92	ASN
24	vD	38	ASN
26	yD	68	GLN
27	zD	35	GLN
27	zD	58	ASN
6	aE	92	HIS
6	aE	108	ASN
6	aE	165	GLN
6	aE	181	ASN
6	aE	266	ASN
6	aE	303	ASN
6	aE	322	ASN
6	aE	335	ASN
7	bE	87	ASN
7	bE	114	HIS
7	bE	191	ASN
7	bE	317	ASN
7	bE	394	GLN
8	cE	238	HIS
8	cE	293	ASN
8	cE	319	GLN
8	cE	365	ASN
9	dE	117	HIS
9	dE	129	GLN
9	dE	142	ASN
9	dE	186	GLN
9	dE	268	HIS
9	dE	292	ASN
13	iE	26	ASN
17	mE	28	GLN
18	oE	158	GLN
19	qE	92	ASN
24	vE	38	ASN
26	yE	68	GLN
27	zE	35	GLN
27	zE	58	ASN
4	aF	2	GLN
4	aF	50	ASN
3	bF	60	GLN
4	cF	71	ASN
4	eF	71	ASN

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Mol	Chain	Res	Type
4	eF	131	GLN
5	3F	63	ASN
3	fF	10	ASN
3	fF	71	ASN
29	gF	155	GLN
4	hF	128	GLN
3	iF	56	ASN
30	mF	25	ASN
4	nF	15	GLN
5	2G	40	GLN
4	1G	47	ASN
4	5G	71	ASN
4	7G	117	ASN
31	bH	70	GLN
31	bH	73	ASN
32	cH	72	ASN
32	eH	72	ASN
32	gH	72	ASN
31	hH	25	GLN
31	hH	73	ASN
32	iH	72	ASN
32	kH	72	ASN
31	lH	73	ASN
32	mH	72	ASN
31	bI	73	ASN
32	cI	72	ASN
32	eI	72	ASN
31	hI	25	GLN
31	hI	73	ASN
32	iI	72	ASN
32	kI	72	ASN
31	lI	73	ASN
31	lI	78	GLN
32	mI	72	ASN
31	bJ	70	GLN
31	bJ	73	ASN
32	cJ	72	ASN
32	eJ	72	ASN
32	gJ	72	ASN
31	hJ	25	GLN
31	hJ	73	ASN
32	iJ	72	ASN

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Mol	Chain	Res	Type
31	jJ	61	ASN
32	kJ	72	ASN
31	lJ	73	ASN
32	mJ	72	ASN
4	aK	2	GLN
4	aK	50	ASN
3	bK	60	GLN
4	cK	71	ASN
4	eK	71	ASN
4	eK	131	GLN
5	3K	63	ASN
3	fK	10	ASN
3	fK	71	ASN
29	gK	155	GLN
4	hK	128	GLN
3	iK	56	ASN
30	mK	25	ASN
4	nK	15	GLN
5	2L	40	GLN
4	1L	47	ASN
4	5L	71	ASN
4	7L	15	GLN
4	7L	117	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 882 ligands modelled in this entry, 36 are monoatomic - leaving 846 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	CYC	aF	201	4	42,46,46	2.98	12 (28%)	50,67,67	2.94	19 (38%)
36	CLA	cD	514	-	65,73,73	1.43	8 (12%)	76,113,113	1.50	9 (11%)
36	CLA	dE	403	-	65,73,73	1.41	7 (10%)	76,113,113	1.57	7 (9%)
36	CLA	B1	603	7	65,73,73	1.51	10 (15%)	76,113,113	1.46	8 (10%)
36	CLA	BD	607	7	65,73,73	1.42	8 (12%)	76,113,113	1.99	11 (14%)
36	CLA	DD	406	9	65,73,73	1.44	9 (13%)	76,113,113	1.53	11 (14%)
33	CYC	c5	202	32	42,46,46	1.13	1 (2%)	50,67,67	0.97	2 (4%)
33	CYC	yB	201	3	42,46,46	2.99	13 (30%)	50,67,67	3.19	22 (44%)
36	CLA	B1	613	43	65,73,73	1.44	10 (15%)	76,113,113	1.44	8 (10%)
33	CYC	i7	201	-	42,46,46	1.12	1 (2%)	50,67,67	0.97	2 (4%)
40	LMT	bE	621	-	24,24,36	1.12	2 (8%)	29,29,47	1.14	3 (10%)
33	CYC	c3	202	32	42,46,46	1.14	1 (2%)	50,67,67	0.97	2 (4%)
47	HEM	E1	101	-	41,50,50	1.50	6 (14%)	45,82,82	1.89	13 (28%)
38	SQD	L1	101	-	42,43,54	1.35	5 (11%)	51,54,65	1.22	4 (7%)
33	CYC	eH	202	-	42,46,46	1.09	1 (2%)	50,67,67	0.95	2 (4%)
40	LMT	bE	601	7	36,36,36	1.34	8 (22%)	47,47,47	1.17	3 (6%)
33	CYC	QL	201	29	42,46,46	3.12	13 (30%)	50,67,67	3.03	23 (46%)
33	CYC	j2	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.98	2 (4%)
44	DGD	HD	103	-	63,63,67	0.84	2 (3%)	77,77,81	1.04	4 (5%)
36	CLA	b1	606	7	65,73,73	1.46	10 (15%)	76,113,113	1.54	11 (14%)
43	BCR	B1	617	-	41,41,41	0.73	0	56,56,56	1.86	12 (21%)
40	LMT	BD	623	7	24,24,36	1.20	4 (16%)	29,29,47	1.14	1 (3%)
33	CYC	KF	201	4	42,46,46	3.10	11 (26%)	50,67,67	3.33	25 (50%)
33	CYC	m2	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.95	2 (4%)
34	OEX	AE	401	6	0,15,15	-	-	-	-	-
43	BCR	ZE	101	27	41,41,41	0.72	0	56,56,56	2.17	23 (41%)
42	LHG	DE	410	-	48,48,48	0.91	2 (4%)	51,54,54	1.03	3 (5%)
36	CLA	CE	513	-	65,73,73	1.43	8 (12%)	76,113,113	1.58	8 (10%)
33	CYC	QB	201	4,3	42,46,46	3.18	17 (40%)	50,67,67	3.12	20 (40%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	CYC	V4	201	3	42,46,46	3.10	11 (26%)	50,67,67	3.26	20 (40%)
33	CYC	cJ	202	32	42,46,46	1.13	1 (2%)	50,67,67	0.96	2 (4%)
43	BCR	I1	102	13	41,41,41	0.79	0	56,56,56	2.77	18 (32%)
33	CYC	v4	201	4	42,46,46	3.07	14 (33%)	50,67,67	3.00	22 (44%)
36	CLA	c1	505	8	65,73,73	1.45	12 (18%)	76,113,113	1.81	14 (18%)
33	CYC	JK	201	3	42,46,46	3.51	13 (30%)	50,67,67	2.91	15 (30%)
33	CYC	iC	202	-	42,46,46	3.04	13 (30%)	50,67,67	3.89	23 (46%)
45	PHO	aD	412	6	51,69,69	2.26	14 (27%)	47,99,99	2.59	16 (34%)
36	CLA	DE	405	-	65,73,73	1.47	11 (16%)	76,113,113	1.56	8 (10%)
33	CYC	RB	201	4,5	42,46,46	3.24	14 (33%)	50,67,67	3.09	23 (46%)
33	CYC	nK	201	3,4	42,46,46	3.15	13 (30%)	50,67,67	2.66	19 (38%)
33	CYC	BC	301	32	42,46,46	3.02	13 (30%)	50,67,67	3.89	24 (48%)
33	CYC	bC	201	-	42,46,46	3.03	13 (30%)	50,67,67	3.58	25 (50%)
36	CLA	c1	510	8	65,73,73	1.37	11 (16%)	76,113,113	1.66	18 (23%)
33	CYC	l6	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.58	25 (50%)
38	SQD	dD	414	9	33,34,54	1.48	4 (12%)	42,45,65	1.52	6 (14%)
33	CYC	bF	201	3	42,46,46	3.00	14 (33%)	50,67,67	3.01	18 (36%)
43	BCR	c1	515	36,8	41,41,41	0.76	0	56,56,56	2.49	20 (35%)
33	CYC	g2	201	32	42,46,46	1.05	1 (2%)	50,67,67	0.96	2 (4%)
40	LMT	BD	619	-	24,24,36	1.12	3 (12%)	29,29,47	1.04	1 (3%)
36	CLA	aE	405	-	65,73,73	1.42	11 (16%)	76,113,113	1.65	12 (15%)
39	LMG	B1	618	7	51,51,55	0.92	2 (3%)	59,59,63	1.17	4 (6%)
43	BCR	bD	616	36,7	41,41,41	0.82	1 (2%)	56,56,56	2.51	22 (39%)
36	CLA	c1	512	-	65,73,73	1.46	9 (13%)	76,113,113	1.63	13 (17%)
33	CYC	l3	201	-	42,46,46	3.06	12 (28%)	50,67,67	3.58	25 (50%)
36	CLA	BD	613	43	65,73,73	1.44	10 (15%)	76,113,113	1.44	8 (10%)
43	BCR	BD	616	7	41,41,41	0.69	0	56,56,56	1.87	14 (25%)
43	BCR	BE	615	36,7	41,41,41	0.82	1 (2%)	56,56,56	2.51	22 (39%)
33	CYC	i8	202	-	42,46,46	3.05	14 (33%)	50,67,67	3.89	23 (46%)
33	CYC	e2	201	32	42,46,46	3.05	13 (30%)	50,67,67	3.88	23 (46%)
33	CYC	gK	201	29	42,46,46	3.14	13 (30%)	50,67,67	3.06	23 (46%)
36	CLA	CD	504	-	65,73,73	1.48	10 (15%)	76,113,113	1.51	12 (15%)
36	CLA	CD	514	-	50,58,73	1.63	10 (20%)	58,95,113	1.50	7 (12%)
33	CYC	b9	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.57	25 (50%)
33	CYC	iA	202	-	42,46,46	3.04	14 (33%)	50,67,67	3.89	23 (46%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
36	CLA	CD	506	8	65,73,73	1.44	10 (15%)	76,113,113	1.85	14 (18%)
33	CYC	m7	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.95	2 (4%)
43	BCR	d1	407	-	41,41,41	0.69	0	56,56,56	1.82	12 (21%)
36	CLA	BE	602	7	65,73,73	1.41	11 (16%)	76,113,113	1.72	12 (15%)
36	CLA	cE	514	-	65,73,73	1.43	8 (12%)	76,113,113	1.50	9 (11%)
33	CYC	e2	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.95	2 (4%)
40	LMT	AD	409	-	24,24,36	1.14	3 (12%)	29,29,47	1.07	1 (3%)
33	CYC	OL	201	4	42,46,46	2.96	15 (35%)	50,67,67	3.31	18 (36%)
33	CYC	eJ	201	32	42,46,46	3.05	13 (30%)	50,67,67	3.89	23 (46%)
37	PL9	A1	406	-	55,55,55	0.64	1 (1%)	68,69,69	1.47	11 (16%)
33	CYC	B3	301	32	42,46,46	3.03	13 (30%)	50,67,67	3.89	23 (46%)
33	CYC	mH	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.95	2 (4%)
33	CYC	b4	101	4,5	42,46,46	2.92	13 (30%)	50,67,67	3.27	22 (44%)
33	CYC	c6	202	32	42,46,46	1.14	1 (2%)	50,67,67	0.96	2 (4%)
44	DGD	cD	517	-	63,63,67	0.85	2 (3%)	77,77,81	1.00	3 (3%)
33	CYC	C4	1003	2	42,46,46	3.07	15 (35%)	50,67,67	2.99	19 (38%)
38	SQD	CE	501	8	53,54,54	1.18	4 (7%)	62,65,65	1.18	7 (11%)
36	CLA	c1	507	43,8	65,73,73	1.47	8 (12%)	76,113,113	1.82	14 (18%)
36	CLA	hE	101	43	65,73,73	2.42	9 (13%)	76,113,113	1.66	10 (13%)
33	CYC	eI	201	32	42,46,46	3.05	13 (30%)	50,67,67	3.88	23 (46%)
40	LMT	A1	413	-	36,36,36	1.21	4 (11%)	47,47,47	1.16	3 (6%)
34	OEX	AD	401	6	0,15,15	-	-	-	-	-
44	DGD	cD	518	-	63,63,67	0.85	2 (3%)	77,77,81	1.11	6 (7%)
45	PHO	aE	412	-	43,61,69	2.13	10 (23%)	37,89,99	2.82	15 (40%)
36	CLA	CD	507	-	55,63,73	1.59	9 (16%)	64,101,113	1.73	11 (17%)
36	CLA	bD	608	-	60,68,73	1.50	9 (15%)	70,107,113	1.67	12 (17%)
33	CYC	VB	201	3	42,46,46	3.09	11 (26%)	50,67,67	3.26	20 (40%)
44	DGD	HE	103	-	63,63,67	0.85	2 (3%)	77,77,81	1.04	4 (5%)
36	CLA	BE	603	7	65,73,73	1.51	10 (15%)	76,113,113	1.45	8 (10%)
43	BCR	CD	516	36,8	41,41,41	0.76	0	56,56,56	2.24	18 (32%)
36	CLA	CE	509	8	65,73,73	1.39	11 (16%)	76,113,113	1.44	11 (14%)
39	LMG	jE	102	39,14	27,27,55	1.35	2 (7%)	35,35,63	1.11	2 (5%)
40	LMT	DD	404	-	24,24,36	1.16	3 (12%)	29,29,47	1.01	1 (3%)
33	CYC	j6	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.58	25 (50%)
37	PL9	DE	408	9	55,55,55	0.63	2 (3%)	68,69,69	1.62	17 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
40	LMT	AD	412	-	36,36,36	1.21	4 (11%)	47,47,47	1.16	3 (6%)
33	CYC	h8	201	-	42,46,46	3.07	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	jK	201	4	42,46,46	3.13	14 (33%)	50,67,67	2.72	20 (40%)
44	DGD	hD	104	-	63,63,67	0.86	2 (3%)	77,77,81	1.14	6 (7%)
36	CLA	bE	610	-	65,73,73	1.46	10 (15%)	76,113,113	1.46	10 (13%)
34	OEX	aD	401	6	0,15,15	-	-	-	-	-
33	CYC	gH	202	32	42,46,46	3.03	13 (30%)	50,67,67	3.89	24 (48%)
36	CLA	bD	606	7	65,73,73	1.46	10 (15%)	76,113,113	1.55	11 (14%)
43	BCR	BD	617	-	41,41,41	0.73	0	56,56,56	1.86	12 (21%)
33	CYC	eA	201	32	42,46,46	3.04	13 (30%)	50,67,67	3.88	23 (46%)
39	LMG	CD	502	-	51,51,55	0.93	2 (3%)	59,59,63	1.04	5 (8%)
40	LMT	CD	522	-	24,24,36	1.12	2 (8%)	29,29,47	1.14	3 (10%)
36	CLA	cE	512	-	65,73,73	1.46	9 (13%)	76,113,113	1.64	14 (18%)
33	CYC	b7	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.58	25 (50%)
44	DGD	H1	103	-	63,63,67	0.84	2 (3%)	77,77,81	1.04	4 (5%)
33	CYC	aK	201	4	42,46,46	2.98	11 (26%)	50,67,67	2.94	19 (38%)
44	DGD	CE	517	8	48,48,67	0.97	2 (4%)	62,62,81	1.27	8 (12%)
37	PL9	d1	408	9	55,55,55	0.63	2 (3%)	68,69,69	1.62	17 (25%)
33	CYC	k5	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.87	23 (46%)
42	LHG	AD	411	6	37,37,48	1.04	2 (5%)	40,43,54	1.18	3 (7%)
33	CYC	gJ	202	32	42,46,46	3.02	13 (30%)	50,67,67	3.89	23 (46%)
33	CYC	k6	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.87	23 (46%)
36	CLA	BD	606	-	60,68,73	1.50	9 (15%)	70,107,113	1.67	12 (17%)
36	CLA	b1	605	7	65,73,73	1.50	10 (15%)	76,113,113	1.44	8 (10%)
33	CYC	i9	201	-	42,46,46	1.11	1 (2%)	50,67,67	0.96	2 (4%)
33	CYC	KK	201	4	42,46,46	3.09	11 (26%)	50,67,67	3.32	25 (50%)
36	CLA	BE	612	-	65,73,73	1.48	11 (16%)	76,113,113	1.43	9 (11%)
33	CYC	f8	201	31	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	dK	201	3	42,46,46	3.40	13 (30%)	50,67,67	3.20	22 (44%)
39	LMG	DE	411	9	51,51,55	0.94	2 (3%)	59,59,63	1.26	5 (8%)
42	LHG	eD	101	-	39,39,48	1.03	2 (5%)	42,45,54	1.18	4 (9%)
44	DGD	JD	101	-	63,63,67	0.83	2 (3%)	77,77,81	0.99	4 (5%)
39	LMG	TD	101	-	36,36,55	1.15	2 (5%)	44,44,63	0.99	3 (6%)
33	CYC	CB	1001	2,4	42,46,46	3.48	16 (38%)	50,67,67	5.71	21 (42%)
33	CYC	l2	201	-	42,46,46	3.05	12 (28%)	50,67,67	3.58	25 (50%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
36	CLA	bD	603	-	45,53,73	1.74	10 (22%)	52,89,113	1.75	9 (17%)
36	CLA	bE	607	-	65,73,73	1.44	10 (15%)	76,113,113	1.72	11 (14%)
38	SQD	cD	502	8	53,54,54	1.18	4 (7%)	62,65,65	1.15	5 (8%)
36	CLA	B1	614	7	65,73,73	1.59	9 (13%)	76,113,113	1.43	11 (14%)
33	CYC	jA	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
38	SQD	h1	103	12	34,35,54	1.65	6 (17%)	43,46,65	1.91	10 (23%)
45	PHO	d1	402	9	51,69,69	2.16	14 (27%)	47,99,99	2.65	15 (31%)
33	CYC	6L	201	3	42,46,46	2.98	14 (33%)	50,67,67	3.05	22 (44%)
36	CLA	b1	604	7	65,73,73	1.42	11 (16%)	76,113,113	1.71	12 (15%)
36	CLA	bE	613	-	65,73,73	1.49	11 (16%)	76,113,113	1.44	9 (11%)
36	CLA	BE	608	-	65,73,73	1.38	7 (10%)	76,113,113	1.58	7 (9%)
33	CYC	i7	202	-	42,46,46	3.05	14 (33%)	50,67,67	3.88	23 (46%)
33	CYC	gI	201	32	42,46,46	1.07	1 (2%)	50,67,67	0.96	2 (4%)
36	CLA	I1	101	13,6	60,68,73	1.45	8 (13%)	70,107,113	1.53	7 (10%)
33	CYC	i5	201	-	42,46,46	1.12	1 (2%)	50,67,67	0.96	2 (4%)
45	PHO	DE	401	-	51,69,69	2.31	14 (27%)	47,99,99	2.55	18 (38%)
33	CYC	f3	201	31	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	B7	301	32	42,46,46	3.03	13 (30%)	50,67,67	3.89	23 (46%)
33	CYC	3K	101	4,5	42,46,46	3.27	13 (30%)	50,67,67	3.06	21 (42%)
43	BCR	DE	407	-	41,41,41	0.70	0	56,56,56	1.82	11 (19%)
33	CYC	b2	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.57	25 (50%)
33	CYC	jJ	202	-	42,46,46	1.05	1 (2%)	50,67,67	0.97	2 (4%)
36	CLA	BE	607	7	65,73,73	1.42	8 (12%)	76,113,113	1.99	11 (14%)
40	LMT	i1	102	-	24,24,36	1.15	2 (8%)	29,29,47	0.98	1 (3%)
33	CYC	g9	201	32	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
36	CLA	b1	610	-	65,73,73	1.46	10 (15%)	76,113,113	1.46	9 (11%)
33	CYC	j2	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.57	25 (50%)
36	CLA	C1	511	8	65,73,73	1.39	9 (13%)	76,113,113	1.40	13 (17%)
33	CYC	BB	1002	2	42,46,46	3.07	14 (33%)	50,67,67	2.99	19 (38%)
38	SQD	dE	414	9	33,34,54	1.48	4 (12%)	42,45,65	1.52	6 (14%)
33	CYC	qB	201	3	42,46,46	3.16	11 (26%)	50,67,67	2.90	19 (38%)
39	LMG	yD	101	39	51,51,55	0.90	2 (3%)	59,59,63	1.08	5 (8%)
33	CYC	OB	201	3	42,46,46	3.21	13 (30%)	50,67,67	2.76	17 (34%)
33	CYC	jF	201	4	42,46,46	3.13	14 (33%)	50,67,67	2.72	20 (40%)
38	SQD	AD	407	-	45,46,54	1.28	4 (8%)	54,57,65	1.27	4 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
39	LMG	J1	102	39,14	27,27,55	1.30	2 (7%)	35,35,63	1.06	1 (2%)
41	BCT	AD	410	-	2,3,3	1.15	0	2,3,3	4.50	2 (100%)
43	BCR	b1	618	-	41,41,41	0.73	0	56,56,56	1.86	12 (21%)
33	CYC	B4	1004	4,2	42,46,46	3.02	13 (30%)	50,67,67	2.80	20 (40%)
47	HEM	VE	201	24	41,50,50	1.45	6 (14%)	45,82,82	2.16	12 (26%)
36	CLA	CE	504	-	65,73,73	1.48	10 (15%)	76,113,113	1.52	12 (15%)
39	LMG	DD	411	9	51,51,55	0.94	2 (3%)	59,59,63	1.26	5 (8%)
40	LMT	iD	103	-	24,24,36	1.14	2 (8%)	29,29,47	0.98	1 (3%)
33	CYC	bA	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.57	25 (50%)
36	CLA	D1	405	9	65,73,73	1.44	9 (13%)	76,113,113	1.53	11 (14%)
33	CYC	fI	201	31	42,46,46	3.06	13 (30%)	50,67,67	3.59	25 (50%)
39	LMG	TE	101	-	36,36,55	1.14	2 (5%)	44,44,63	0.99	3 (6%)
36	CLA	h1	101	43	65,73,73	2.42	9 (13%)	76,113,113	1.67	9 (11%)
37	PL9	dE	408	9	55,55,55	0.63	2 (3%)	68,69,69	1.62	17 (25%)
40	LMT	j1	101	-	36,36,36	1.23	5 (13%)	47,47,47	1.24	6 (12%)
43	BCR	XD	102	25,36	41,41,41	0.93	2 (4%)	56,56,56	2.63	20 (35%)
39	LMG	tD	101	22	36,36,55	1.15	2 (5%)	44,44,63	0.99	3 (6%)
43	BCR	bE	617	7	41,41,41	0.70	0	56,56,56	1.87	14 (25%)
36	CLA	C1	504	-	65,73,73	1.48	10 (15%)	76,113,113	1.51	12 (15%)
43	BCR	b1	616	36,7	41,41,41	0.83	1 (2%)	56,56,56	2.51	22 (39%)
33	CYC	i2	201	-	42,46,46	1.12	1 (2%)	50,67,67	0.97	2 (4%)
33	CYC	g3	201	32	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
38	SQD	hE	103	12	34,35,54	1.65	6 (17%)	43,46,65	1.91	10 (23%)
36	CLA	bD	605	7	65,73,73	1.50	10 (15%)	76,113,113	1.44	8 (10%)
33	CYC	WG	201	4	42,46,46	3.12	13 (30%)	50,67,67	2.65	16 (32%)
45	PHO	DE	403	9	51,69,69	1.85	12 (23%)	47,99,99	2.61	15 (31%)
33	CYC	iA	201	-	42,46,46	1.11	1 (2%)	50,67,67	0.96	2 (4%)
36	CLA	cD	512	-	65,73,73	1.46	9 (13%)	76,113,113	1.63	13 (17%)
40	LMT	D1	411	-	25,25,36	1.10	2 (8%)	30,30,47	1.06	2 (6%)
36	CLA	cD	513	-	50,58,73	1.63	11 (22%)	58,95,113	1.58	8 (13%)
33	CYC	kF	201	3	42,46,46	3.15	12 (28%)	50,67,67	2.97	19 (38%)
33	CYC	cI	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.86	23 (46%)
36	CLA	b1	613	-	65,73,73	1.49	11 (16%)	76,113,113	1.43	9 (11%)
36	CLA	c1	509	8	65,73,73	1.43	11 (16%)	76,113,113	2.25	13 (17%)
39	LMG	bE	619	7	51,51,55	0.92	2 (3%)	59,59,63	1.17	3 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	CYC	VL	201	30	42,46,46	3.04	12 (28%)	50,67,67	3.34	24 (48%)
33	CYC	kC	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.87	23 (46%)
43	BCR	DD	407	-	41,41,41	0.71	0	56,56,56	1.82	12 (21%)
43	BCR	CE	516	36,8	41,41,41	0.76	0	56,56,56	2.24	18 (32%)
33	CYC	j3	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.57	25 (50%)
33	CYC	y4	201	3	42,46,46	2.99	13 (30%)	50,67,67	3.20	22 (44%)
33	CYC	c2	202	32	42,46,46	1.15	1 (2%)	50,67,67	0.96	2 (4%)
36	CLA	bE	603	-	45,53,73	1.74	10 (22%)	52,89,113	1.75	9 (17%)
40	LMT	d1	404	-	24,24,36	1.15	2 (8%)	29,29,47	1.01	1 (3%)
33	CYC	BB	1004	2,4	42,46,46	3.02	13 (30%)	50,67,67	2.79	20 (40%)
36	CLA	BD	605	-	65,73,73	1.45	10 (15%)	76,113,113	1.71	11 (14%)
33	CYC	e3	202	-	42,46,46	1.10	1 (2%)	50,67,67	0.95	2 (4%)
33	CYC	ZB	201	3	42,46,46	3.14	13 (30%)	50,67,67	2.89	17 (34%)
36	CLA	XD	101	25	65,73,73	1.43	9 (13%)	76,113,113	1.36	8 (10%)
36	CLA	h1	102	12	60,68,73	1.52	10 (16%)	70,107,113	1.49	9 (12%)
36	CLA	dD	406	9	65,73,73	1.44	10 (15%)	76,113,113	1.55	11 (14%)
33	CYC	cH	202	32	42,46,46	1.14	1 (2%)	50,67,67	0.96	2 (4%)
33	CYC	j5	202	-	42,46,46	1.05	1 (2%)	50,67,67	0.98	2 (4%)
36	CLA	cD	507	43,8	65,73,73	1.46	8 (12%)	76,113,113	1.81	14 (18%)
33	CYC	d5	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.57	25 (50%)
43	BCR	i1	101	-	41,41,41	0.77	1 (2%)	56,56,56	2.55	19 (33%)
36	CLA	AE	404	-	46,54,73	12.09	10 (21%)	53,90,113	2.32	13 (24%)
36	CLA	C1	506	8	65,73,73	1.43	10 (15%)	76,113,113	1.85	14 (18%)
36	CLA	C1	505	-	65,73,73	1.45	10 (15%)	76,113,113	1.50	12 (15%)
33	CYC	YF	201	4	42,46,46	3.42	13 (30%)	50,67,67	3.20	21 (42%)
40	LMT	d1	413	-	22,22,36	1.16	3 (13%)	27,27,47	1.01	1 (3%)
45	PHO	dD	402	9	39,57,69	2.93	10 (25%)	32,84,99	2.37	8 (25%)
36	CLA	cD	509	8	65,73,73	1.43	11 (16%)	76,113,113	2.25	14 (18%)
36	CLA	b1	611	-	65,73,73	1.50	12 (18%)	76,113,113	1.63	11 (14%)
36	CLA	bE	605	7	65,73,73	1.51	10 (15%)	76,113,113	1.44	8 (10%)
33	CYC	g7	201	32	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
33	CYC	iJ	202	-	42,46,46	3.03	13 (30%)	50,67,67	3.88	23 (46%)
33	CYC	s4	201	3	42,46,46	3.00	13 (30%)	50,67,67	3.19	21 (42%)
36	CLA	CD	510	8	65,73,73	1.44	9 (13%)	76,113,113	2.36	17 (22%)
39	LMG	BE	618	7	51,51,55	0.92	2 (3%)	59,59,63	1.17	3 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
36	CLA	C1	503	-	65,73,73	1.46	10 (15%)	76,113,113	1.47	10 (13%)
45	PHO	D1	402	9	51,69,69	1.88	11 (21%)	47,99,99	2.56	16 (34%)
39	LMG	jD	102	39,14	27,27,55	1.35	2 (7%)	35,35,63	1.11	1 (2%)
36	CLA	BE	606	-	60,68,73	1.49	9 (15%)	70,107,113	1.67	12 (17%)
33	CYC	eC	202	-	42,46,46	1.10	1 (2%)	50,67,67	0.96	2 (4%)
36	CLA	c1	506	-	55,63,73	1.59	10 (18%)	64,101,113	1.72	11 (17%)
36	CLA	HD	101	43	65,73,73	2.43	9 (13%)	76,113,113	1.68	9 (11%)
33	CYC	eI	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.95	2 (4%)
40	LMT	bE	620	-	24,24,36	1.11	2 (8%)	29,29,47	1.04	1 (3%)
33	CYC	i6	201	-	42,46,46	1.12	1 (2%)	50,67,67	0.97	2 (4%)
36	CLA	DE	406	9	65,73,73	1.44	9 (13%)	76,113,113	1.53	11 (14%)
37	PL9	DD	408	9	55,55,55	0.63	2 (3%)	68,69,69	1.62	17 (25%)
36	CLA	d1	406	9	65,73,73	1.44	10 (15%)	76,113,113	1.55	11 (14%)
33	CYC	OG	201	4	42,46,46	2.96	15 (35%)	50,67,67	3.31	18 (36%)
39	LMG	b1	619	7	51,51,55	0.92	2 (3%)	59,59,63	1.17	3 (5%)
33	CYC	PG	201	3	42,46,46	3.08	13 (30%)	50,67,67	3.21	24 (48%)
33	CYC	fK	201	3	42,46,46	3.08	14 (33%)	50,67,67	3.06	20 (40%)
33	CYC	PL	201	3	42,46,46	3.08	13 (30%)	50,67,67	3.21	24 (48%)
36	CLA	a1	407	6	60,68,73	1.43	7 (11%)	70,107,113	1.72	12 (17%)
33	CYC	BB	1001	2,4	42,46,46	3.19	14 (33%)	50,67,67	3.05	22 (44%)
33	CYC	mJ	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.95	2 (4%)
33	CYC	l5	201	-	42,46,46	3.06	12 (28%)	50,67,67	3.59	25 (50%)
36	CLA	B1	605	-	65,73,73	1.45	10 (15%)	76,113,113	1.71	11 (14%)
36	CLA	hD	102	12	60,68,73	1.52	10 (16%)	70,107,113	1.49	10 (14%)
42	LHG	B1	621	-	48,48,48	0.92	2 (4%)	51,54,54	1.06	3 (5%)
39	LMG	dE	411	9	51,51,55	0.95	2 (3%)	59,59,63	1.26	5 (8%)
36	CLA	C1	515	-	65,73,73	1.43	8 (12%)	76,113,113	1.52	8 (10%)
33	CYC	e8	202	-	42,46,46	1.08	1 (2%)	50,67,67	0.96	2 (4%)
33	CYC	iH	201	-	42,46,46	1.12	1 (2%)	50,67,67	0.97	2 (4%)
33	CYC	5L	201	4,5	42,46,46	3.00	14 (33%)	50,67,67	3.18	26 (52%)
36	CLA	CE	515	-	65,73,73	1.42	8 (12%)	76,113,113	1.51	8 (10%)
33	CYC	e7	202	-	42,46,46	1.09	1 (2%)	50,67,67	0.96	2 (4%)
39	LMG	CD	519	39	51,51,55	0.92	2 (3%)	59,59,63	1.07	5 (8%)
33	CYC	e7	201	32	42,46,46	3.05	13 (30%)	50,67,67	3.89	23 (46%)
36	CLA	XE	101	25	65,73,73	1.42	9 (13%)	76,113,113	1.35	8 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	CYC	jA	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.57	25 (50%)
33	CYC	h9	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.57	25 (50%)
36	CLA	BE	610	-	65,73,73	1.50	12 (18%)	76,113,113	1.62	12 (15%)
33	CYC	iJ	201	-	42,46,46	1.13	1 (2%)	50,67,67	0.97	2 (4%)
36	CLA	cE	507	43,8	65,73,73	1.45	8 (12%)	76,113,113	1.81	14 (18%)
36	CLA	BD	603	7	65,73,73	1.51	10 (15%)	76,113,113	1.45	8 (10%)
38	SQD	BD	621	-	37,38,54	1.43	4 (10%)	46,49,65	4.33	9 (19%)
33	CYC	kJ	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.86	23 (46%)
33	CYC	ZK	201	3	42,46,46	3.14	15 (35%)	50,67,67	2.99	24 (48%)
36	CLA	a1	405	-	46,54,73	12.11	10 (21%)	53,90,113	1.81	8 (15%)
33	CYC	C4	1002	4,2	42,46,46	3.01	12 (28%)	50,67,67	3.03	22 (44%)
33	CYC	LG	201	4,2	42,46,46	2.59	13 (30%)	50,67,67	4.56	29 (58%)
33	CYC	f6	201	31	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	dJ	201	-	42,46,46	3.07	12 (28%)	50,67,67	3.57	25 (50%)
37	PL9	AE	406	-	55,55,55	0.64	1 (1%)	68,69,69	1.46	11 (16%)
40	LMT	b1	602	-	24,24,36	1.16	2 (8%)	29,29,47	1.02	0
33	CYC	IH	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
40	LMT	cE	501	-	24,24,36	1.12	2 (8%)	29,29,47	1.14	3 (10%)
39	LMG	y1	101	39	51,51,55	0.91	2 (3%)	59,59,63	1.08	5 (8%)
33	CYC	IL	201	-	42,46,46	3.30	16 (38%)	50,67,67	3.11	24 (48%)
33	CYC	II	201	-	42,46,46	3.05	12 (28%)	50,67,67	3.58	25 (50%)
36	CLA	B1	608	-	65,73,73	1.39	7 (10%)	76,113,113	1.59	7 (9%)
36	CLA	d1	403	-	65,73,73	1.40	7 (10%)	76,113,113	1.57	7 (9%)
42	LHG	e1	101	-	39,39,48	1.03	2 (5%)	42,45,54	1.18	4 (9%)
33	CYC	T4	201	4	42,46,46	3.11	14 (33%)	50,67,67	3.23	22 (44%)
36	CLA	HD	102	12	60,68,73	1.51	10 (16%)	70,107,113	1.49	10 (14%)
40	LMT	BE	622	-	36,36,36	1.28	5 (13%)	47,47,47	1.15	1 (2%)
44	DGD	c1	517	-	63,63,67	0.85	2 (3%)	77,77,81	1.00	3 (3%)
43	BCR	hE	105	25,36,12	41,41,41	0.93	2 (4%)	56,56,56	2.64	19 (33%)
33	CYC	cA	202	32	42,46,46	1.14	1 (2%)	50,67,67	0.96	2 (4%)
38	SQD	L1	102	-	42,43,54	1.35	5 (11%)	51,54,65	1.23	4 (7%)
43	BCR	CD	520	-	41,41,41	0.74	0	56,56,56	1.79	14 (25%)
42	LHG	DE	409	-	48,48,48	0.92	2 (4%)	51,54,54	1.03	2 (3%)
33	CYC	b3	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	j9	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.57	25 (50%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
43	BCR	cE	515	36,8	41,41,41	0.75	0	56,56,56	2.49	20 (35%)
33	CYC	BA	301	32	42,46,46	3.03	13 (30%)	50,67,67	3.89	23 (46%)
33	CYC	9K	201	3	42,46,46	2.93	11 (26%)	50,67,67	2.93	18 (36%)
36	CLA	c1	503	-	65,73,73	1.53	11 (16%)	76,113,113	1.42	10 (13%)
33	CYC	XF	201	3	42,46,46	3.17	13 (30%)	50,67,67	3.03	21 (42%)
36	CLA	CD	513	-	65,73,73	1.42	8 (12%)	76,113,113	1.59	9 (11%)
38	SQD	C1	501	8	53,54,54	1.18	4 (7%)	62,65,65	1.18	7 (11%)
33	CYC	JL	201	4,3	42,46,46	3.07	12 (28%)	50,67,67	2.92	20 (40%)
33	CYC	eK	201	4	42,46,46	3.12	14 (33%)	50,67,67	3.19	20 (40%)
43	BCR	X1	102	25,36	41,41,41	0.94	2 (4%)	56,56,56	2.64	20 (35%)
36	CLA	hD	101	43	65,73,73	2.43	9 (13%)	76,113,113	1.66	9 (11%)
33	CYC	cC	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.86	23 (46%)
40	LMT	BD	622	-	36,36,36	1.28	5 (13%)	47,47,47	1.15	1 (2%)
43	BCR	cD	519	-	41,41,41	0.83	0	56,56,56	2.00	16 (28%)
33	CYC	m3	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.95	2 (4%)
40	LMT	bD	620	-	24,24,36	1.11	2 (8%)	29,29,47	1.04	1 (3%)
33	CYC	mK	201	30	42,46,46	3.06	12 (28%)	50,67,67	3.34	24 (48%)
33	CYC	j9	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.98	2 (4%)
36	CLA	bD	614	43	65,73,73	1.45	10 (15%)	76,113,113	1.44	8 (10%)
36	CLA	BD	614	7	65,73,73	1.59	9 (13%)	76,113,113	1.42	11 (14%)
33	CYC	fA	201	31	42,46,46	3.05	13 (30%)	50,67,67	3.58	25 (50%)
38	SQD	c1	501	8	53,54,54	1.18	4 (7%)	62,65,65	1.15	5 (8%)
39	LMG	A1	408	-	36,36,55	1.08	2 (5%)	44,44,63	1.10	5 (11%)
36	CLA	bE	609	7	65,73,73	1.43	8 (12%)	76,113,113	1.98	11 (14%)
42	LHG	DD	410	-	48,48,48	0.91	2 (4%)	51,54,54	1.03	3 (5%)
36	CLA	cE	509	8	65,73,73	1.44	11 (16%)	76,113,113	2.24	14 (18%)
40	LMT	A1	409	-	24,24,36	1.14	3 (12%)	29,29,47	1.07	1 (3%)
38	SQD	d1	414	9	33,34,54	1.48	4 (12%)	42,45,65	1.52	6 (14%)
42	LHG	aD	411	6	37,37,48	1.04	2 (5%)	40,43,54	1.23	4 (10%)
38	SQD	CD	501	8	53,54,54	1.18	4 (7%)	62,65,65	1.18	7 (11%)
33	CYC	9F	201	3	42,46,46	2.93	11 (26%)	50,67,67	2.92	18 (36%)
33	CYC	IG	201	3	42,46,46	3.30	15 (35%)	50,67,67	3.11	23 (46%)
33	CYC	cH	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.86	23 (46%)
33	CYC	WB	201	4	42,46,46	3.15	13 (30%)	50,67,67	3.08	20 (40%)
44	DGD	c1	516	8	48,48,67	0.99	2 (4%)	62,62,81	1.30	10 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
38	SQD	LD	102	-	42,43,54	1.35	5 (11%)	51,54,65	1.22	4 (7%)
44	DGD	CE	518	-	63,63,67	0.86	2 (3%)	77,77,81	1.09	5 (6%)
33	CYC	iI	201	-	42,46,46	1.11	1 (2%)	50,67,67	0.97	2 (4%)
40	LMT	bE	602	-	24,24,36	1.17	2 (8%)	29,29,47	1.02	0
33	CYC	LF	201	4,3	42,46,46	3.32	14 (33%)	50,67,67	3.19	17 (34%)
33	CYC	4L	201	3	42,46,46	2.95	10 (23%)	50,67,67	3.39	26 (52%)
33	CYC	3F	102	4,5	42,46,46	3.65	15 (35%)	50,67,67	3.45	20 (40%)
33	CYC	gF	201	29	42,46,46	3.14	13 (30%)	50,67,67	3.06	23 (46%)
44	DGD	JE	101	-	63,63,67	0.83	2 (3%)	77,77,81	0.99	4 (5%)
33	CYC	gH	201	32	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
33	CYC	GL	201	3,4	42,46,46	3.12	12 (28%)	50,67,67	2.96	19 (38%)
33	CYC	JG	201	4,3	42,46,46	3.09	12 (28%)	50,67,67	2.93	20 (40%)
33	CYC	h5	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.57	25 (50%)
39	LMG	CE	519	39	51,51,55	0.92	2 (3%)	59,59,63	1.07	5 (8%)
41	BCT	a1	411	46	2,3,3	1.15	0	2,3,3	4.49	2 (100%)
44	DGD	h1	104	-	63,63,67	0.87	2 (3%)	77,77,81	1.14	6 (7%)
47	HEM	vD	201	24	41,50,50	1.45	6 (14%)	45,82,82	2.14	12 (26%)
33	CYC	O4	201	3	42,46,46	3.20	13 (30%)	50,67,67	2.76	17 (34%)
42	LHG	AE	411	6	37,37,48	1.03	2 (5%)	40,43,54	1.18	3 (7%)
36	CLA	BE	605	-	65,73,73	1.45	10 (15%)	76,113,113	1.71	11 (14%)
36	CLA	bD	612	7	65,73,73	1.41	6 (9%)	76,113,113	1.86	14 (18%)
33	CYC	c9	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.86	23 (46%)
33	CYC	e5	202	-	42,46,46	1.09	1 (2%)	50,67,67	0.95	2 (4%)
47	HEM	fD	101	-	41,50,50	1.50	6 (14%)	45,82,82	1.90	13 (28%)
33	CYC	BB	1003	2,4	42,46,46	3.00	14 (33%)	50,67,67	3.06	20 (40%)
33	CYC	m6	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.95	2 (4%)
33	CYC	c5	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.86	23 (46%)
33	CYC	kH	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.87	23 (46%)
47	HEM	f1	101	-	41,50,50	1.50	6 (14%)	45,82,82	1.91	13 (28%)
33	CYC	AG	201	3,4	42,46,46	2.85	12 (28%)	50,67,67	3.04	22 (44%)
36	CLA	B1	609	-	65,73,73	1.46	10 (15%)	76,113,113	1.46	10 (13%)
40	LMT	b1	601	7	36,36,36	1.34	8 (22%)	47,47,47	1.17	3 (6%)
33	CYC	d2	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
36	CLA	BD	612	-	65,73,73	1.48	11 (16%)	76,113,113	1.43	9 (11%)
42	LHG	ID	101	-	48,48,48	0.91	2 (4%)	51,54,54	1.06	3 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	CYC	g5	201	32	42,46,46	1.07	1 (2%)	50,67,67	0.96	2 (4%)
36	CLA	aD	405	-	65,73,73	1.42	11 (16%)	76,113,113	1.66	12 (15%)
43	BCR	C1	520	-	41,41,41	0.74	0	56,56,56	1.79	14 (25%)
39	LMG	a1	410	-	36,36,55	1.08	2 (5%)	44,44,63	1.06	2 (4%)
33	CYC	ML	201	2,4	42,46,46	3.19	13 (30%)	50,67,67	3.35	25 (50%)
33	CYC	hI	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	m9	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.95	2 (4%)
36	CLA	CD	509	8	65,73,73	1.39	11 (16%)	76,113,113	1.45	11 (14%)
33	CYC	aB	201	4,5	42,46,46	3.50	11 (26%)	50,67,67	3.28	24 (48%)
36	CLA	B1	604	7	65,73,73	1.45	10 (15%)	76,113,113	1.55	11 (14%)
36	CLA	B1	601	-	45,53,73	1.75	10 (22%)	52,89,113	1.78	9 (17%)
33	CYC	gA	201	32	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
33	CYC	d7	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.57	25 (50%)
42	LHG	BE	620	-	48,48,48	0.93	2 (4%)	51,54,54	1.06	3 (5%)
36	CLA	AE	405	-	65,73,73	1.41	10 (15%)	76,113,113	1.74	12 (15%)
33	CYC	WL	201	4	42,46,46	3.12	13 (30%)	50,67,67	2.65	16 (32%)
33	CYC	r4	201	4,2	42,46,46	3.08	12 (28%)	50,67,67	3.03	25 (50%)
33	CYC	jH	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.57	25 (50%)
33	CYC	NK	101	4,5	42,46,46	3.08	14 (33%)	50,67,67	3.04	22 (44%)
36	CLA	A1	404	-	46,54,73	12.09	10 (21%)	53,90,113	2.34	13 (24%)
33	CYC	iI	202	-	42,46,46	3.04	14 (33%)	50,67,67	3.88	23 (46%)
44	DGD	cE	516	8	48,48,67	0.99	2 (4%)	62,62,81	1.31	10 (16%)
36	CLA	bD	607	-	65,73,73	1.44	10 (15%)	76,113,113	1.71	11 (14%)
40	LMT	BE	623	7	24,24,36	1.19	4 (16%)	29,29,47	1.14	1 (3%)
39	LMG	JD	102	39,14	27,27,55	1.30	2 (7%)	35,35,63	1.06	1 (2%)
33	CYC	g6	201	32	42,46,46	1.05	1 (2%)	50,67,67	0.96	2 (4%)
33	CYC	kA	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.87	23 (46%)
40	LMT	bD	601	7	36,36,36	1.34	8 (22%)	47,47,47	1.17	3 (6%)
43	BCR	ZD	101	27	41,41,41	0.73	0	56,56,56	2.17	23 (41%)
33	CYC	oB	201	3	42,46,46	3.23	15 (35%)	50,67,67	2.78	19 (38%)
33	CYC	w4	201	3	42,46,46	3.09	12 (28%)	50,67,67	2.79	18 (36%)
33	CYC	b5	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.57	25 (50%)
36	CLA	d1	405	-	65,73,73	1.49	11 (16%)	76,113,113	1.56	8 (10%)
40	LMT	DE	412	-	25,25,36	1.10	2 (8%)	30,30,47	1.06	2 (6%)
36	CLA	BE	613	43	65,73,73	1.45	10 (15%)	76,113,113	1.44	7 (9%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	CYC	dC	201	-	42,46,46	3.05	12 (28%)	50,67,67	3.57	25 (50%)
36	CLA	bD	604	7	65,73,73	1.42	11 (16%)	76,113,113	1.72	12 (15%)
33	CYC	l7	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	j3	202	-	42,46,46	1.05	1 (2%)	50,67,67	0.97	2 (4%)
33	CYC	cJ	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.86	23 (46%)
33	CYC	IF	201	4	42,46,46	3.18	15 (35%)	50,67,67	3.10	23 (46%)
33	CYC	c8	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.85	23 (46%)
33	CYC	ff	201	3	42,46,46	3.08	14 (33%)	50,67,67	3.06	20 (40%)
43	BCR	IE	102	13	41,41,41	0.79	0	56,56,56	2.77	18 (32%)
33	CYC	l8	201	-	42,46,46	3.07	13 (30%)	50,67,67	3.59	25 (50%)
36	CLA	B1	611	7	65,73,73	1.41	6 (9%)	76,113,113	1.85	13 (17%)
36	CLA	b1	615	7	65,73,73	1.58	9 (13%)	76,113,113	1.43	11 (14%)
36	CLA	DD	405	-	65,73,73	1.48	11 (16%)	76,113,113	1.57	8 (10%)
36	CLA	CD	515	-	65,73,73	1.43	8 (12%)	76,113,113	1.52	8 (10%)
36	CLA	BD	602	7	65,73,73	1.41	11 (16%)	76,113,113	1.72	12 (15%)
33	CYC	k3	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.87	23 (46%)
36	CLA	C1	508	43,8	65,73,73	1.48	9 (13%)	76,113,113	1.74	15 (19%)
33	CYC	i6	202	-	42,46,46	3.05	14 (33%)	50,67,67	3.89	23 (46%)
33	CYC	e6	201	32	42,46,46	3.04	13 (30%)	50,67,67	3.88	23 (46%)
33	CYC	X4	201	4,3	42,46,46	3.15	14 (33%)	50,67,67	3.00	16 (32%)
33	CYC	c7	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.85	23 (46%)
43	BCR	hD	105	25,36,12	41,41,41	0.93	2 (4%)	56,56,56	2.64	19 (33%)
36	CLA	X1	101	25	65,73,73	1.43	9 (13%)	76,113,113	1.35	7 (9%)
33	CYC	XB	201	4,3	42,46,46	3.15	14 (33%)	50,67,67	3.00	16 (32%)
40	LMT	DD	413	-	22,22,36	1.17	3 (13%)	27,27,47	1.03	1 (3%)
40	LMT	iE	103	-	24,24,36	1.14	2 (8%)	29,29,47	0.98	1 (3%)
45	PHO	a1	413	-	39,57,69	2.94	10 (25%)	32,84,99	2.99	14 (43%)
33	CYC	5G	201	4,5	42,46,46	3.00	14 (33%)	50,67,67	3.18	26 (52%)
33	CYC	iC	201	-	42,46,46	1.11	1 (2%)	50,67,67	0.96	2 (4%)
33	CYC	d6	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	IK	201	4	42,46,46	3.17	15 (35%)	50,67,67	3.10	23 (46%)
33	CYC	B4	1003	4,2	42,46,46	3.01	14 (33%)	50,67,67	3.06	20 (40%)
41	BCT	A1	410	-	2,3,3	1.15	0	2,3,3	4.49	2 (100%)
36	CLA	CD	505	-	65,73,73	1.46	10 (15%)	76,113,113	1.50	12 (15%)
36	CLA	B1	607	7	65,73,73	1.41	8 (12%)	76,113,113	1.99	11 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
42	LHG	aE	411	6	37,37,48	1.04	2 (5%)	40,43,54	1.23	4 (10%)
43	BCR	cE	519	-	41,41,41	0.83	0	56,56,56	2.01	16 (28%)
36	CLA	cE	510	8	65,73,73	1.37	11 (16%)	76,113,113	1.65	18 (23%)
36	CLA	c1	502	-	65,73,73	1.50	9 (13%)	76,113,113	1.48	9 (11%)
39	LMG	tE	101	22	36,36,55	1.15	2 (5%)	44,44,63	0.99	3 (6%)
42	LHG	dE	409	-	48,48,48	0.92	2 (4%)	51,54,54	1.03	2 (3%)
43	BCR	bE	616	36,7	41,41,41	0.82	1 (2%)	56,56,56	2.51	22 (39%)
36	CLA	x1	101	25	65,73,73	1.42	9 (13%)	76,113,113	1.35	8 (10%)
36	CLA	B1	612	-	65,73,73	1.49	11 (16%)	76,113,113	1.43	9 (11%)
39	LMG	C1	519	39	51,51,55	0.92	2 (3%)	59,59,63	1.07	5 (8%)
33	CYC	NL	201	3	42,46,46	2.96	11 (26%)	50,67,67	3.11	19 (38%)
43	BCR	ID	102	13	41,41,41	0.79	0	56,56,56	2.77	18 (32%)
40	LMT	jD	101	-	36,36,36	1.22	5 (13%)	47,47,47	1.25	6 (12%)
40	LMT	dE	404	-	24,24,36	1.15	2 (8%)	29,29,47	1.01	1 (3%)
39	LMG	JE	102	39,14	27,27,55	1.31	2 (7%)	35,35,63	1.06	1 (2%)
39	LMG	mE	101	-	36,36,55	1.12	2 (5%)	44,44,63	1.11	3 (6%)
33	CYC	k8	201	-	42,46,46	3.03	13 (30%)	50,67,67	3.87	23 (46%)
40	LMT	jE	101	-	36,36,36	1.22	5 (13%)	47,47,47	1.25	6 (12%)
36	CLA	BD	609	-	65,73,73	1.46	10 (15%)	76,113,113	1.46	10 (13%)
33	CYC	PB	201	4	42,46,46	3.11	14 (33%)	50,67,67	3.15	22 (44%)
36	CLA	iD	101	-	55,63,73	1.58	10 (18%)	64,101,113	1.72	11 (17%)
36	CLA	CE	510	8	65,73,73	1.44	9 (13%)	76,113,113	2.36	17 (22%)
40	LMT	DD	412	-	25,25,36	1.11	2 (8%)	30,30,47	1.06	2 (6%)
33	CYC	f5	201	31	42,46,46	3.05	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	g8	201	32	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
36	CLA	bE	612	7	65,73,73	1.40	6 (9%)	76,113,113	1.86	14 (18%)
43	BCR	XE	102	25,36	41,41,41	0.94	2 (4%)	56,56,56	2.63	19 (33%)
45	PHO	DD	401	-	51,69,69	2.06	11 (21%)	47,99,99	2.54	19 (40%)
36	CLA	BE	601	-	45,53,73	1.75	10 (22%)	52,89,113	1.78	9 (17%)
43	BCR	cD	515	36,8	41,41,41	0.75	0	56,56,56	2.49	19 (33%)
33	CYC	GG	201	3,4	42,46,46	3.11	12 (28%)	50,67,67	2.95	19 (38%)
43	BCR	Z1	102	-	41,41,41	0.72	0	56,56,56	1.89	13 (23%)
39	LMG	aD	409	-	36,36,55	1.08	2 (5%)	44,44,63	1.06	2 (4%)
39	LMG	t1	101	22	36,36,55	1.15	2 (5%)	44,44,63	0.99	3 (6%)
36	CLA	BD	601	-	45,53,73	1.74	10 (22%)	52,89,113	1.78	9 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
36	CLA	b1	614	43	65,73,73	1.43	10 (15%)	76,113,113	1.45	8 (10%)
37	PL9	a1	409	-	55,55,55	0.66	1 (1%)	68,69,69	1.46	12 (17%)
43	BCR	BE	616	7	41,41,41	0.69	0	56,56,56	1.88	14 (25%)
36	CLA	cD	504	-	65,73,73	1.54	11 (16%)	76,113,113	1.42	10 (13%)
44	DGD	CD	518	-	63,63,67	0.86	2 (3%)	77,77,81	1.08	5 (6%)
33	CYC	o4	201	3	42,46,46	3.22	15 (35%)	50,67,67	2.78	19 (38%)
33	CYC	j8	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
33	CYC	uB	201	3,4	42,46,46	3.31	12 (28%)	50,67,67	2.75	19 (38%)
36	CLA	c1	508	8	65,73,73	1.43	10 (15%)	76,113,113	1.48	11 (14%)
33	CYC	m8	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.95	2 (4%)
42	LHG	eE	101	-	39,39,48	1.03	2 (5%)	42,45,54	1.18	4 (9%)
33	CYC	gJ	201	32	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
38	SQD	AE	407	-	45,46,54	1.28	4 (8%)	54,57,65	1.27	4 (7%)
39	LMG	D1	410	9	51,51,55	0.95	2 (3%)	59,59,63	1.27	5 (8%)
33	CYC	h2	201	-	42,46,46	3.07	13 (30%)	50,67,67	3.57	25 (50%)
39	LMG	MD	101	-	36,36,55	1.11	2 (5%)	44,44,63	1.11	3 (6%)
33	CYC	fJ	201	31	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
36	CLA	xD	101	25	65,73,73	1.42	9 (13%)	76,113,113	1.36	7 (9%)
40	LMT	cD	501	-	24,24,36	1.13	2 (8%)	29,29,47	1.13	3 (10%)
33	CYC	d9	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.57	25 (50%)
33	CYC	CB	1003	2	42,46,46	3.08	15 (35%)	50,67,67	2.98	19 (38%)
33	CYC	g5	202	32	42,46,46	3.02	13 (30%)	50,67,67	3.89	24 (48%)
36	CLA	cE	504	-	65,73,73	1.53	11 (16%)	76,113,113	1.41	10 (13%)
39	LMG	aE	407	-	51,51,55	0.92	2 (3%)	59,59,63	1.06	2 (3%)
43	BCR	iD	102	-	41,41,41	0.78	1 (2%)	56,56,56	2.55	19 (33%)
36	CLA	C1	514	-	50,58,73	1.63	10 (20%)	58,95,113	1.51	7 (12%)
43	BCR	CD	521	-	41,41,41	0.72	0	56,56,56	1.89	13 (23%)
36	CLA	cE	506	8	65,73,73	1.45	12 (18%)	76,113,113	1.81	14 (18%)
36	CLA	CE	514	-	50,58,73	1.63	10 (20%)	58,95,113	1.50	7 (12%)
36	CLA	bE	604	7	65,73,73	1.43	11 (16%)	76,113,113	1.72	12 (15%)
36	CLA	B1	602	7	65,73,73	1.41	11 (16%)	76,113,113	1.72	12 (15%)
36	CLA	hE	102	12	60,68,73	1.52	10 (16%)	70,107,113	1.49	10 (14%)
44	DGD	cD	516	8	48,48,67	0.99	2 (4%)	62,62,81	1.31	10 (16%)
36	CLA	CD	503	-	65,73,73	1.46	10 (15%)	76,113,113	1.47	10 (13%)
33	CYC	eA	202	-	42,46,46	1.09	1 (2%)	50,67,67	0.95	2 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	CYC	4G	201	3	42,46,46	2.95	11 (26%)	50,67,67	3.39	26 (52%)
33	CYC	B4	1001	4,2	42,46,46	3.19	14 (33%)	50,67,67	3.06	22 (44%)
41	BCT	aE	410	46	2,3,3	1.15	0	2,3,3	4.48	2 (100%)
33	CYC	AL	201	3,4	42,46,46	2.85	12 (28%)	50,67,67	3.04	22 (44%)
43	BCR	bD	618	-	41,41,41	0.74	0	56,56,56	1.86	13 (23%)
33	CYC	vB	201	4	42,46,46	3.06	14 (33%)	50,67,67	3.00	22 (44%)
44	DGD	CD	517	8	48,48,67	0.98	2 (4%)	62,62,81	1.27	8 (12%)
33	CYC	jC	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.56	25 (50%)
36	CLA	ID	101	13,6	60,68,73	1.45	8 (13%)	70,107,113	1.53	7 (10%)
33	CYC	bK	201	3	42,46,46	2.99	14 (33%)	50,67,67	3.01	18 (36%)
43	BCR	k1	102	-	41,41,41	0.72	0	56,56,56	1.89	13 (23%)
36	CLA	bE	614	43	65,73,73	1.44	10 (15%)	76,113,113	1.44	8 (10%)
33	CYC	j6	202	-	42,46,46	1.05	1 (2%)	50,67,67	0.98	2 (4%)
33	CYC	bJ	201	-	42,46,46	3.05	12 (28%)	50,67,67	3.57	25 (50%)
33	CYC	fH	201	31	42,46,46	3.06	13 (30%)	50,67,67	3.59	25 (50%)
36	CLA	C1	513	-	65,73,73	1.43	8 (12%)	76,113,113	1.59	9 (11%)
43	BCR	Z1	101	27	41,41,41	0.73	0	56,56,56	2.16	23 (41%)
33	CYC	RG	201	3,4	42,46,46	3.00	10 (23%)	50,67,67	2.95	22 (44%)
33	CYC	eH	201	32	42,46,46	3.05	13 (30%)	50,67,67	3.88	23 (46%)
39	LMG	aD	407	-	51,51,55	0.92	2 (3%)	59,59,63	1.06	2 (3%)
43	BCR	BE	617	-	41,41,41	0.73	0	56,56,56	1.86	12 (21%)
36	CLA	CE	505	-	65,73,73	1.46	10 (15%)	76,113,113	1.49	12 (15%)
33	CYC	S4	201	3,4	42,46,46	3.20	11 (26%)	50,67,67	2.42	22 (44%)
33	CYC	i3	201	-	42,46,46	1.11	1 (2%)	50,67,67	0.96	2 (4%)
36	CLA	CE	508	43,8	65,73,73	1.49	9 (13%)	76,113,113	1.73	14 (18%)
36	CLA	bE	611	-	65,73,73	1.50	12 (18%)	76,113,113	1.62	11 (14%)
42	LHG	a1	412	6	37,37,48	1.04	2 (5%)	40,43,54	1.23	4 (10%)
36	CLA	cD	506	8	65,73,73	1.45	12 (18%)	76,113,113	1.81	14 (18%)
37	PL9	D1	407	9	55,55,55	0.63	1 (1%)	68,69,69	1.62	17 (25%)
44	DGD	J1	101	-	63,63,67	0.83	2 (3%)	77,77,81	0.99	4 (5%)
33	CYC	cC	202	32	42,46,46	1.14	1 (2%)	50,67,67	0.97	2 (4%)
33	CYC	c6	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.86	23 (46%)
42	LHG	BD	620	-	48,48,48	0.93	2 (4%)	51,54,54	1.06	3 (5%)
36	CLA	aE	406	6	60,68,73	1.42	7 (11%)	70,107,113	1.71	12 (17%)
33	CYC	j8	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.57	25 (50%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
39	LMG	a1	408	-	51,51,55	0.92	2 (3%)	59,59,63	1.06	2 (3%)
33	CYC	g8	202	32	42,46,46	3.04	13 (30%)	50,67,67	3.89	24 (48%)
33	CYC	dA	201	-	42,46,46	3.06	12 (28%)	50,67,67	3.57	25 (50%)
33	CYC	bB	101	4,5	42,46,46	2.92	13 (30%)	50,67,67	3.26	22 (44%)
39	LMG	m1	101	-	36,36,55	1.12	2 (5%)	44,44,63	1.11	3 (6%)
33	CYC	RL	201	3,4	42,46,46	3.00	10 (23%)	50,67,67	2.96	22 (44%)
43	BCR	h1	105	25,36,12	41,41,41	0.93	2 (4%)	56,56,56	2.64	19 (33%)
38	SQD	D1	413	9	33,34,54	1.48	4 (12%)	42,45,65	1.52	6 (14%)
33	CYC	iH	202	-	42,46,46	3.04	14 (33%)	50,67,67	3.89	23 (46%)
33	CYC	jI	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.57	25 (50%)
33	CYC	1L	201	4	42,46,46	3.29	15 (35%)	50,67,67	2.97	18 (36%)
33	CYC	TG	201	3	42,46,46	3.15	14 (33%)	50,67,67	3.01	21 (42%)
33	CYC	hJ	201	-	42,46,46	3.07	13 (30%)	50,67,67	3.57	25 (50%)
38	SQD	LE	102	-	42,43,54	1.35	5 (11%)	51,54,65	1.23	4 (7%)
36	CLA	BD	608	-	65,73,73	1.39	7 (10%)	76,113,113	1.58	7 (9%)
36	CLA	cE	505	-	65,73,73	1.48	9 (13%)	76,113,113	1.51	13 (17%)
33	CYC	QG	201	29	42,46,46	3.12	14 (33%)	50,67,67	3.04	23 (46%)
43	BCR	c1	519	-	41,41,41	0.83	0	56,56,56	2.01	16 (28%)
34	OEX	A1	401	6	0,15,15	-	-	-	-	-
33	CYC	TB	201	4	42,46,46	3.12	14 (33%)	50,67,67	3.23	22 (44%)
40	LMT	B1	619	-	24,24,36	1.12	3 (12%)	29,29,47	1.04	1 (3%)
33	CYC	b6	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.57	25 (50%)
36	CLA	a1	406	-	65,73,73	1.42	11 (16%)	76,113,113	1.66	12 (15%)
42	LHG	11	101	-	48,48,48	0.92	2 (4%)	51,54,54	1.05	3 (5%)
42	LHG	d1	410	-	48,48,48	0.91	2 (4%)	51,54,54	1.03	3 (5%)
36	CLA	H1	102	12	60,68,73	1.51	10 (16%)	70,107,113	1.49	10 (14%)
36	CLA	A1	405	-	65,73,73	1.42	10 (15%)	76,113,113	1.74	12 (15%)
36	CLA	bD	609	7	65,73,73	1.43	8 (12%)	76,113,113	1.98	11 (14%)
44	DGD	C1	517	8	48,48,67	0.98	2 (4%)	62,62,81	1.27	8 (12%)
43	BCR	b1	617	7	41,41,41	0.69	0	56,56,56	1.87	13 (23%)
33	CYC	j7	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.97	2 (4%)
38	SQD	hD	103	12	34,35,54	1.65	6 (17%)	43,46,65	1.91	10 (23%)
40	LMT	AE	412	-	36,36,36	1.21	4 (11%)	47,47,47	1.16	3 (6%)
33	CYC	jJ	201	-	42,46,46	3.04	13 (30%)	50,67,67	3.57	25 (50%)
33	CYC	1A	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	CYC	mA	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.94	2 (4%)
36	CLA	cE	503	-	65,73,73	1.50	10 (15%)	76,113,113	1.48	9 (11%)
40	LMT	DE	404	-	24,24,36	1.16	3 (12%)	29,29,47	1.01	1 (3%)
33	CYC	gC	201	32	42,46,46	1.06	1 (2%)	50,67,67	0.96	2 (4%)
33	CYC	W4	201	4	42,46,46	3.15	13 (30%)	50,67,67	3.08	20 (40%)
36	CLA	CE	507	-	55,63,73	1.59	9 (16%)	64,101,113	1.73	11 (17%)
33	CYC	i5	202	-	42,46,46	3.04	14 (33%)	50,67,67	3.89	23 (46%)
36	CLA	bE	615	7	65,73,73	1.58	9 (13%)	76,113,113	1.42	11 (14%)
33	CYC	HL	201	2,4	42,46,46	3.13	10 (23%)	50,67,67	4.03	25 (50%)
33	CYC	i2	202	-	42,46,46	3.04	14 (33%)	50,67,67	3.89	23 (46%)
36	CLA	C1	512	-	65,73,73	1.43	8 (12%)	76,113,113	1.47	13 (17%)
40	LMT	C1	521	8	24,24,36	1.12	2 (8%)	29,29,47	1.14	3 (10%)
34	OEX	a1	402	6	0,15,15	-	-	-	-	-
40	LMT	dD	404	-	24,24,36	1.15	2 (8%)	29,29,47	1.01	2 (6%)
33	CYC	hC	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	f2	201	31	42,46,46	3.06	13 (30%)	50,67,67	3.59	25 (50%)
37	PL9	aD	408	-	55,55,55	0.66	1 (1%)	68,69,69	1.46	12 (17%)
42	LHG	lE	101	-	48,48,48	0.92	2 (4%)	51,54,54	1.06	3 (5%)
34	OEX	aE	401	6	0,15,15	-	-	-	-	-
42	LHG	A1	411	6	37,37,48	1.04	2 (5%)	40,43,54	1.18	3 (7%)
33	CYC	1G	201	4	42,46,46	3.29	15 (35%)	50,67,67	2.96	18 (36%)
36	CLA	lE	101	13,6	60,68,73	1.46	8 (13%)	70,107,113	1.53	7 (10%)
33	CYC	j5	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.57	25 (50%)
36	CLA	BE	614	7	65,73,73	1.59	9 (13%)	76,113,113	1.43	11 (14%)
43	BCR	bE	618	-	41,41,41	0.74	0	56,56,56	1.86	12 (21%)
33	CYC	hA	201	-	42,46,46	3.07	13 (30%)	50,67,67	3.58	25 (50%)
45	PHO	DD	403	9	44,62,69	2.60	15 (34%)	38,90,99	2.50	14 (36%)
42	LHG	dD	409	-	48,48,48	0.92	2 (4%)	51,54,54	1.03	2 (3%)
36	CLA	BD	604	7	65,73,73	1.46	10 (15%)	76,113,113	1.55	11 (14%)
43	BCR	kE	102	-	41,41,41	0.72	0	56,56,56	1.89	13 (23%)
38	SQD	BE	621	-	37,38,54	1.44	4 (10%)	46,49,65	4.33	9 (19%)
33	CYC	6G	201	3	42,46,46	2.98	14 (33%)	50,67,67	3.06	22 (44%)
39	LMG	AE	408	-	36,36,55	1.09	2 (5%)	44,44,63	1.10	5 (11%)
33	CYC	hH	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
36	CLA	B1	606	-	60,68,73	1.50	9 (15%)	70,107,113	1.66	11 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
36	CLA	cD	505	-	65,73,73	1.48	9 (13%)	76,113,113	1.51	13 (17%)
40	LMT	b1	620	-	24,24,36	1.11	2 (8%)	29,29,47	1.04	1 (3%)
33	CYC	d8	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.57	25 (50%)
33	CYC	e9	201	32	42,46,46	3.04	13 (30%)	50,67,67	3.88	23 (46%)
39	LMG	yE	101	39	51,51,55	0.90	2 (3%)	59,59,63	1.08	4 (6%)
38	SQD	DE	414	9	33,34,54	1.48	4 (12%)	42,45,65	1.51	6 (14%)
38	SQD	LD	101	-	42,43,54	1.34	5 (11%)	51,54,65	1.22	4 (7%)
44	DGD	C1	518	-	63,63,67	0.86	2 (3%)	77,77,81	1.08	5 (6%)
39	LMG	bD	619	7	51,51,55	0.92	2 (3%)	59,59,63	1.17	3 (5%)
36	CLA	cD	510	8	65,73,73	1.37	11 (16%)	76,113,113	1.66	18 (23%)
33	CYC	BI	301	32	42,46,46	3.03	13 (30%)	50,67,67	3.89	24 (48%)
43	BCR	D1	406	-	41,41,41	0.71	0	56,56,56	1.82	11 (19%)
44	DGD	hE	104	-	63,63,67	0.86	2 (3%)	77,77,81	1.14	6 (7%)
39	LMG	ME	101	-	36,36,55	1.11	2 (5%)	44,44,63	1.11	3 (6%)
33	CYC	MG	201	4,2	42,46,46	3.19	13 (30%)	50,67,67	3.35	25 (50%)
36	CLA	cD	503	-	65,73,73	1.50	10 (15%)	76,113,113	1.48	9 (11%)
36	CLA	bE	608	-	60,68,73	1.51	9 (15%)	70,107,113	1.68	12 (17%)
33	CYC	B4	1002	2	42,46,46	3.08	14 (33%)	50,67,67	2.99	19 (38%)
38	SQD	LE	101	-	42,43,54	1.34	5 (11%)	51,54,65	1.22	4 (7%)
33	CYC	z4	201	4,2	42,46,46	3.09	14 (33%)	50,67,67	3.25	26 (52%)
33	CYC	i3	202	-	42,46,46	3.04	14 (33%)	50,67,67	3.89	23 (46%)
33	CYC	nF	201	3,4	42,46,46	3.15	13 (30%)	50,67,67	2.67	19 (38%)
33	CYC	i9	202	-	42,46,46	3.03	14 (33%)	50,67,67	3.88	23 (46%)
33	CYC	q4	201	3	42,46,46	3.16	11 (26%)	50,67,67	2.90	19 (38%)
36	CLA	BE	609	-	65,73,73	1.46	10 (15%)	76,113,113	1.46	10 (13%)
33	CYC	fC	201	31	42,46,46	3.07	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	cF	201	4	42,46,46	2.92	13 (30%)	50,67,67	3.08	21 (42%)
33	CYC	h3	201	-	42,46,46	3.07	13 (30%)	50,67,67	3.58	25 (50%)
36	CLA	H1	101	43	65,73,73	2.43	9 (13%)	76,113,113	1.68	9 (11%)
40	LMT	D1	412	-	22,22,36	1.17	3 (13%)	27,27,47	1.03	1 (3%)
36	CLA	cE	511	-	65,73,73	1.46	7 (10%)	76,113,113	1.52	8 (10%)
36	CLA	CE	503	-	65,73,73	1.46	10 (15%)	76,113,113	1.47	10 (13%)
33	CYC	dH	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.57	25 (50%)
36	CLA	HE	101	43	65,73,73	2.43	9 (13%)	76,113,113	1.68	9 (11%)
36	CLA	BD	611	7	65,73,73	1.41	6 (9%)	76,113,113	1.85	13 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
36	CLA	BE	604	7	65,73,73	1.46	10 (15%)	76,113,113	1.55	12 (15%)
36	CLA	dE	406	9	65,73,73	1.44	10 (15%)	76,113,113	1.55	11 (14%)
33	CYC	a4	201	4,5	42,46,46	3.49	11 (26%)	50,67,67	3.29	24 (48%)
36	CLA	c1	511	-	65,73,73	1.47	7 (10%)	76,113,113	1.53	8 (10%)
42	LHG	DD	409	-	48,48,48	0.92	2 (4%)	51,54,54	1.03	2 (3%)
33	CYC	e3	201	32	42,46,46	3.05	13 (30%)	50,67,67	3.89	23 (46%)
47	HEM	vE	201	24	41,50,50	1.45	6 (14%)	45,82,82	2.14	12 (26%)
33	CYC	j7	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.57	25 (50%)
33	CYC	cK	201	4	42,46,46	2.92	13 (30%)	50,67,67	3.09	21 (42%)
36	CLA	AD	405	-	65,73,73	1.42	10 (15%)	76,113,113	1.74	12 (15%)
36	CLA	aE	404	-	46,54,73	12.10	10 (21%)	53,90,113	1.81	8 (15%)
37	PL9	AD	406	-	55,55,55	0.64	1 (1%)	68,69,69	1.46	11 (16%)
37	PL9	dD	408	9	55,55,55	0.63	2 (3%)	68,69,69	1.62	17 (25%)
33	CYC	i8	201	-	42,46,46	1.11	1 (2%)	50,67,67	0.96	2 (4%)
33	CYC	cI	202	32	42,46,46	1.14	1 (2%)	50,67,67	0.96	2 (4%)
36	CLA	bD	610	-	65,73,73	1.45	10 (15%)	76,113,113	1.46	10 (13%)
33	CYC	SB	201	4,3	42,46,46	3.21	11 (26%)	50,67,67	2.42	21 (42%)
42	LHG	dE	410	-	48,48,48	0.90	2 (4%)	51,54,54	1.03	3 (5%)
36	CLA	xE	101	25	65,73,73	1.42	9 (13%)	76,113,113	1.36	7 (9%)
45	PHO	dE	402	9	43,61,69	2.85	10 (23%)	37,89,99	3.28	9 (24%)
33	CYC	c8	202	32	42,46,46	1.15	1 (2%)	50,67,67	0.97	2 (4%)
43	BCR	CE	520	-	41,41,41	0.74	0	56,56,56	1.79	14 (25%)
39	LMG	aE	409	-	36,36,55	1.08	2 (5%)	44,44,63	1.07	2 (4%)
39	LMG	j1	102	39,14	27,27,55	1.34	2 (7%)	35,35,63	1.11	2 (5%)
36	CLA	cE	508	8	65,73,73	1.42	10 (15%)	76,113,113	1.48	11 (14%)
33	CYC	B9	301	32	42,46,46	3.03	13 (30%)	50,67,67	3.89	23 (46%)
38	SQD	A1	407	-	45,46,54	1.28	4 (8%)	54,57,65	1.27	4 (7%)
33	CYC	eC	201	32	42,46,46	3.04	13 (30%)	50,67,67	3.89	23 (46%)
33	CYC	P4	201	4	42,46,46	3.11	14 (33%)	50,67,67	3.15	22 (44%)
33	CYC	mI	201	-	42,46,46	1.09	1 (2%)	50,67,67	0.95	2 (4%)
44	DGD	c1	518	-	63,63,67	0.86	2 (3%)	77,77,81	1.11	6 (7%)
44	DGD	cE	518	-	63,63,67	0.86	2 (3%)	77,77,81	1.11	6 (7%)
33	CYC	LK	201	4,3	42,46,46	3.32	14 (33%)	50,67,67	3.18	17 (34%)
36	CLA	dD	405	-	65,73,73	1.48	11 (16%)	76,113,113	1.57	8 (10%)
41	BCT	AE	410	-	2,3,3	1.14	0	2,3,3	4.50	2 (100%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
40	LMT	DE	413	-	22,22,36	1.17	3 (13%)	27,27,47	1.03	1 (3%)
45	PHO	A1	412	6	51,69,69	2.49	13 (25%)	47,99,99	2.81	17 (36%)
33	CYC	jC	202	-	42,46,46	1.07	1 (2%)	50,67,67	0.98	2 (4%)
33	CYC	u4	201	3,4	42,46,46	3.30	12 (28%)	50,67,67	2.75	19 (38%)
33	CYC	c7	202	32	42,46,46	1.14	1 (2%)	50,67,67	0.97	2 (4%)
33	CYC	e9	202	-	42,46,46	1.09	1 (2%)	50,67,67	0.95	2 (4%)
36	CLA	bD	615	7	65,73,73	1.58	9 (13%)	76,113,113	1.42	11 (14%)
40	LMT	BE	619	-	24,24,36	1.13	3 (12%)	29,29,47	1.04	1 (3%)
36	CLA	b1	603	-	45,53,73	1.73	10 (22%)	52,89,113	1.75	10 (19%)
36	CLA	BD	610	-	65,73,73	1.51	12 (18%)	76,113,113	1.62	12 (15%)
33	CYC	hF	201	4	42,46,46	3.41	13 (30%)	50,67,67	3.20	21 (42%)
47	HEM	fE	101	-	41,50,50	1.51	6 (14%)	45,82,82	1.91	13 (28%)
33	CYC	dF	201	3	42,46,46	3.41	13 (30%)	50,67,67	3.20	22 (44%)
43	BCR	B1	615	36,7	41,41,41	0.82	1 (2%)	56,56,56	2.51	22 (39%)
40	LMT	AE	409	-	24,24,36	1.13	3 (12%)	29,29,47	1.07	1 (3%)
40	LMT	dD	413	-	22,22,36	1.16	3 (13%)	27,27,47	1.01	1 (3%)
43	BCR	z1	101	27	41,41,41	0.72	0	56,56,56	2.17	22 (39%)
47	HEM	V1	201	24	41,50,50	1.46	6 (14%)	45,82,82	2.16	12 (26%)
36	CLA	b1	609	7	65,73,73	1.44	8 (12%)	76,113,113	1.98	11 (14%)
39	LMG	AD	408	-	36,36,55	1.09	2 (5%)	44,44,63	1.10	5 (11%)
38	SQD	DD	414	9	33,34,54	1.48	4 (12%)	42,45,65	1.51	6 (14%)
33	CYC	zB	201	2,4	42,46,46	3.09	14 (33%)	50,67,67	3.25	26 (52%)
36	CLA	C1	507	-	55,63,73	1.59	9 (16%)	64,101,113	1.73	11 (17%)
33	CYC	f7	201	31	42,46,46	3.06	13 (30%)	50,67,67	3.59	25 (50%)
33	CYC	wB	201	3	42,46,46	3.08	12 (28%)	50,67,67	2.79	18 (36%)
33	CYC	k2	201	-	42,46,46	3.02	14 (33%)	50,67,67	3.88	23 (46%)
33	CYC	eJ	202	-	42,46,46	1.09	1 (2%)	50,67,67	0.95	2 (4%)
39	LMG	dD	411	9	51,51,55	0.95	2 (3%)	59,59,63	1.27	5 (8%)
40	LMT	B1	620	-	24,24,36	1.12	2 (8%)	29,29,47	1.14	3 (10%)
43	BCR	kD	102	-	41,41,41	0.72	0	56,56,56	1.89	13 (23%)
47	HEM	ED	101	-	41,50,50	1.50	6 (14%)	45,82,82	1.90	13 (28%)
36	CLA	CE	506	8	65,73,73	1.45	10 (15%)	76,113,113	1.85	14 (18%)
33	CYC	e8	201	32	42,46,46	3.06	13 (30%)	50,67,67	3.89	23 (46%)
36	CLA	b1	607	-	65,73,73	1.43	10 (15%)	76,113,113	1.71	11 (14%)
33	CYC	rB	201	2,4	42,46,46	3.09	12 (28%)	50,67,67	3.03	24 (48%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	CYC	Q4	201	4,3	42,46,46	3.19	17 (40%)	50,67,67	3.12	20 (40%)
33	CYC	2G	101	4,5	42,46,46	3.05	15 (35%)	50,67,67	3.06	25 (50%)
36	CLA	AD	404	-	46,54,73	12.09	10 (21%)	53,90,113	2.33	13 (24%)
36	CLA	HE	102	12	60,68,73	1.51	10 (16%)	70,107,113	1.49	10 (14%)
33	CYC	c3	201	-	42,46,46	3.00	13 (30%)	50,67,67	3.86	23 (46%)
36	CLA	cE	513	-	50,58,73	1.63	10 (20%)	58,95,113	1.59	8 (13%)
40	LMT	a1	401	-	36,36,36	1.28	5 (13%)	47,47,47	1.15	1 (2%)
40	LMT	dD	412	-	25,25,36	1.10	2 (8%)	30,30,47	1.06	2 (6%)
33	CYC	HG	201	4,2	42,46,46	3.13	10 (23%)	50,67,67	4.02	25 (50%)
33	CYC	d3	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.56	25 (50%)
33	CYC	3F	101	4,5	42,46,46	3.27	13 (30%)	50,67,67	3.07	21 (42%)
33	CYC	7L	201	4,5	42,46,46	3.68	15 (35%)	50,67,67	3.18	23 (46%)
33	CYC	m5	201	-	42,46,46	1.07	1 (2%)	50,67,67	0.94	2 (4%)
39	LMG	mD	101	-	36,36,55	1.12	2 (5%)	44,44,63	1.11	3 (6%)
47	HEM	VD	201	24	41,50,50	1.46	6 (14%)	45,82,82	2.16	12 (26%)
36	CLA	CD	508	43,8	65,73,73	1.49	9 (13%)	76,113,113	1.73	15 (19%)
40	LMT	D1	403	-	24,24,36	1.16	3 (12%)	29,29,47	1.00	0
36	CLA	bD	613	-	65,73,73	1.48	11 (16%)	76,113,113	1.44	9 (11%)
43	BCR	BD	615	36,7	41,41,41	0.82	1 (2%)	56,56,56	2.51	22 (39%)
33	CYC	c9	202	32	42,46,46	1.13	1 (2%)	50,67,67	0.96	2 (4%)
43	BCR	dD	407	-	41,41,41	0.70	0	56,56,56	1.82	13 (23%)
33	CYC	B2	301	32	42,46,46	3.02	13 (30%)	50,67,67	3.88	24 (48%)
36	CLA	b1	608	-	60,68,73	1.50	9 (15%)	70,107,113	1.68	12 (17%)
39	LMG	C1	502	-	51,51,55	0.93	2 (3%)	59,59,63	1.04	5 (8%)
33	CYC	XK	201	3	42,46,46	3.17	13 (30%)	50,67,67	3.03	22 (44%)
39	LMG	CE	502	-	51,51,55	0.93	2 (3%)	59,59,63	1.04	5 (8%)
33	CYC	hK	201	4	42,46,46	3.42	13 (30%)	50,67,67	3.19	21 (42%)
39	LMG	d1	411	9	51,51,55	0.95	2 (3%)	59,59,63	1.27	5 (8%)
33	CYC	C4	1001	4,2	42,46,46	3.48	16 (38%)	50,67,67	5.71	21 (42%)
36	CLA	B1	610	-	65,73,73	1.50	12 (18%)	76,113,113	1.61	11 (14%)
36	CLA	c1	504	-	65,73,73	1.48	9 (13%)	76,113,113	1.52	13 (17%)
36	CLA	bD	611	-	65,73,73	1.50	12 (18%)	76,113,113	1.62	11 (14%)
33	CYC	lJ	201	-	42,46,46	3.06	12 (28%)	50,67,67	3.59	25 (50%)
33	CYC	CB	1002	2,4	42,46,46	3.02	12 (28%)	50,67,67	3.03	22 (44%)
33	CYC	TL	201	3	42,46,46	3.15	14 (33%)	50,67,67	3.00	20 (40%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	CYC	NF	101	4,5	42,46,46	3.08	14 (33%)	50,67,67	3.04	22 (44%)
33	CYC	mC	201	-	42,46,46	1.08	1 (2%)	50,67,67	0.95	2 (4%)
33	CYC	lC	201	-	42,46,46	3.06	12 (28%)	50,67,67	3.58	25 (50%)
36	CLA	iE	101	-	55,63,73	1.58	10 (18%)	64,101,113	1.72	10 (15%)
39	LMG	M1	101	-	36,36,55	1.11	2 (5%)	44,44,63	1.11	3 (6%)
38	SQD	B1	622	-	37,38,54	1.43	4 (10%)	46,49,65	4.33	9 (19%)
36	CLA	dD	403	-	65,73,73	1.40	7 (10%)	76,113,113	1.57	7 (9%)
43	BCR	C1	516	36,8	41,41,41	0.76	0	56,56,56	2.23	18 (32%)
47	HEM	EE	101	-	41,50,50	1.49	6 (14%)	45,82,82	1.89	12 (26%)
43	BCR	iE	102	-	41,41,41	0.78	1 (2%)	56,56,56	2.55	19 (33%)
47	HEM	v1	201	24	41,50,50	1.46	6 (14%)	45,82,82	2.15	12 (26%)
36	CLA	C1	509	8	65,73,73	1.38	11 (16%)	76,113,113	1.45	11 (14%)
36	CLA	b1	612	7	65,73,73	1.41	6 (9%)	76,113,113	1.85	14 (18%)
40	LMT	B1	623	7	24,24,36	1.20	4 (16%)	29,29,47	1.14	1 (3%)
33	CYC	k9	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.87	23 (46%)
33	CYC	3K	102	4,5	42,46,46	3.66	14 (33%)	50,67,67	3.45	20 (40%)
36	CLA	CE	512	-	65,73,73	1.44	8 (12%)	76,113,113	1.48	13 (17%)
33	CYC	e5	201	32	42,46,46	3.05	13 (30%)	50,67,67	3.88	23 (46%)
33	CYC	eF	201	4	42,46,46	3.12	15 (35%)	50,67,67	3.18	20 (40%)
43	BCR	bD	617	7	41,41,41	0.70	0	56,56,56	1.87	14 (25%)
42	LHG	d1	409	-	48,48,48	0.92	2 (4%)	51,54,54	1.03	2 (3%)
33	CYC	bH	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.57	25 (50%)
40	LMT	dE	413	-	22,22,36	1.16	2 (9%)	27,27,47	1.01	1 (3%)
33	CYC	B6	301	32	42,46,46	3.03	13 (30%)	50,67,67	3.88	24 (48%)
33	CYC	kI	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.87	23 (46%)
33	CYC	b8	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.57	25 (50%)
33	CYC	k7	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.87	23 (46%)
33	CYC	f9	201	31	42,46,46	3.06	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	JF	201	3	42,46,46	3.51	13 (30%)	50,67,67	2.91	16 (32%)
33	CYC	R4	201	4,5	42,46,46	3.24	14 (33%)	50,67,67	3.09	23 (46%)
33	CYC	7G	201	4,5	42,46,46	3.68	15 (35%)	50,67,67	3.19	23 (46%)
36	CLA	aD	406	6	60,68,73	1.42	7 (11%)	70,107,113	1.71	12 (17%)
36	CLA	aD	404	-	46,54,73	12.11	10 (21%)	53,90,113	1.81	8 (15%)
43	BCR	B1	616	7	41,41,41	0.70	0	56,56,56	1.88	14 (25%)
33	CYC	e6	202	-	42,46,46	1.09	1 (2%)	50,67,67	0.95	2 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	CYC	dI	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.57	25 (50%)
33	CYC	jI	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.98	2 (4%)
33	CYC	VG	201	30	42,46,46	3.05	12 (28%)	50,67,67	3.35	24 (48%)
42	LHG	D1	409	-	48,48,48	0.91	2 (4%)	51,54,54	1.03	3 (5%)
43	BCR	ZE	102	-	41,41,41	0.72	0	56,56,56	1.90	13 (23%)
33	CYC	bI	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.57	25 (50%)
36	CLA	D1	404	-	65,73,73	1.48	11 (16%)	76,113,113	1.56	8 (10%)
36	CLA	CD	511	8	65,73,73	1.39	9 (13%)	76,113,113	1.40	13 (17%)
36	CLA	bE	606	7	65,73,73	1.45	10 (15%)	76,113,113	1.55	11 (14%)
36	CLA	cI	514	-	65,73,73	1.43	8 (12%)	76,113,113	1.50	9 (11%)
36	CLA	dE	405	-	65,73,73	1.48	11 (16%)	76,113,113	1.57	8 (10%)
33	CYC	YK	201	4	42,46,46	3.42	13 (30%)	50,67,67	3.20	21 (42%)
33	CYC	h6	201	-	42,46,46	3.07	13 (30%)	50,67,67	3.58	25 (50%)
33	CYC	h7	201	-	42,46,46	3.06	13 (30%)	50,67,67	3.57	25 (50%)
44	DGD	cE	517	-	63,63,67	0.85	2 (3%)	77,77,81	1.00	3 (3%)
36	CLA	cD	511	-	65,73,73	1.46	8 (12%)	76,113,113	1.52	8 (10%)
33	CYC	cA	201	-	42,46,46	3.01	13 (30%)	50,67,67	3.86	23 (46%)
39	LMG	T1	101	-	36,36,55	1.15	2 (5%)	44,44,63	0.99	3 (6%)
36	CLA	BE	611	7	65,73,73	1.41	6 (9%)	76,113,113	1.85	13 (17%)
40	LMT	dE	412	-	25,25,36	1.11	2 (8%)	30,30,47	1.06	2 (6%)
36	CLA	CD	512	-	65,73,73	1.44	8 (12%)	76,113,113	1.47	13 (17%)
38	SQD	cE	502	8	53,54,54	1.18	4 (7%)	62,65,65	1.15	5 (8%)
33	CYC	Z4	201	3	42,46,46	3.15	13 (30%)	50,67,67	2.89	17 (34%)
33	CYC	kK	201	3	42,46,46	3.15	12 (28%)	50,67,67	2.97	19 (38%)
43	BCR	zD	101	27	41,41,41	0.72	0	56,56,56	2.17	23 (41%)
40	LMT	bD	602	-	24,24,36	1.16	2 (8%)	29,29,47	1.02	0
33	CYC	mF	201	30	42,46,46	3.05	12 (28%)	50,67,67	3.33	24 (48%)
33	CYC	jH	202	-	42,46,46	1.06	1 (2%)	50,67,67	0.98	2 (4%)
36	CLA	C1	510	8	65,73,73	1.44	9 (13%)	76,113,113	2.35	17 (22%)
33	CYC	ZF	201	3	42,46,46	3.14	14 (33%)	50,67,67	3.00	24 (48%)
39	LMG	BD	618	7	51,51,55	0.92	2 (3%)	59,59,63	1.17	3 (5%)
42	LHG	D1	408	-	48,48,48	0.92	2 (4%)	51,54,54	1.03	2 (3%)
42	LHG	dD	410	-	48,48,48	0.91	2 (4%)	51,54,54	1.03	3 (5%)
33	CYC	NG	201	3	42,46,46	2.96	11 (26%)	50,67,67	3.11	19 (38%)
36	CLA	CE	511	8	65,73,73	1.39	9 (13%)	76,113,113	1.40	13 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
41	BCT	aD	410	46	2,3,3	1.15	0	2,3,3	4.48	2 (100%)
43	BCR	dE	407	-	41,41,41	0.70	0	56,56,56	1.82	13 (23%)
33	CYC	2L	101	4,5	42,46,46	3.06	15 (35%)	50,67,67	3.05	25 (50%)
33	CYC	l9	201	-	42,46,46	3.05	13 (30%)	50,67,67	3.58	25 (50%)
37	PL9	aE	408	-	55,55,55	0.66	2 (3%)	68,69,69	1.46	12 (17%)
33	CYC	LL	201	2,4	42,46,46	2.59	13 (30%)	50,67,67	4.56	28 (56%)
36	CLA	c1	513	-	50,58,73	1.63	10 (20%)	58,95,113	1.60	8 (13%)
36	CLA	cD	508	8	65,73,73	1.42	10 (15%)	76,113,113	1.48	11 (14%)
33	CYC	sB	201	3	42,46,46	3.00	13 (30%)	50,67,67	3.19	21 (42%)
33	CYC	c2	201	-	42,46,46	3.02	13 (30%)	50,67,67	3.86	23 (46%)
43	BCR	zE	101	27	41,41,41	0.72	0	56,56,56	2.17	22 (39%)
40	LMT	d1	412	-	25,25,36	1.11	2 (8%)	30,30,47	1.06	2 (6%)

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
33	CYC	aF	201	4	-	9/25/74/74	0/4/4/4
36	CLA	cD	514	-	-	15/37/115/115	-
36	CLA	dE	403	-	1/1/15/20	14/37/115/115	-
36	CLA	B1	603	7	1/1/15/20	16/37/115/115	-
36	CLA	BD	607	7	1/1/15/20	14/37/115/115	-
36	CLA	DD	406	9	1/1/15/20	13/37/115/115	-
33	CYC	c5	202	32	-	12/25/74/74	0/4/4/4
36	CLA	B1	613	43	1/1/15/20	14/37/115/115	-
33	CYC	yB	201	3	-	10/25/74/74	0/4/4/4
33	CYC	i7	201	-	-	12/25/74/74	0/4/4/4
40	LMT	bE	621	-	-	8/15/35/61	0/1/1/2
33	CYC	c3	202	32	-	12/25/74/74	0/4/4/4
47	HEM	E1	101	-	-	8/12/54/54	-
38	SQD	L1	101	-	-	11/38/58/69	0/1/1/1
33	CYC	eH	202	-	-	12/25/74/74	0/4/4/4
40	LMT	bE	601	7	-	9/21/61/61	0/2/2/2
33	CYC	QL	201	29	-	7/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	CYC	j2	202	-	-	12/25/74/74	0/4/4/4
44	DGD	HD	103	-	-	13/51/91/95	0/2/2/2
36	CLA	b1	606	7	1/1/15/20	16/37/115/115	-
43	BCR	B1	617	-	-	4/29/63/63	0/2/2/2
40	LMT	BD	623	7	-	8/15/35/61	0/1/1/2
33	CYC	KF	201	4	-	9/25/74/74	0/4/4/4
33	CYC	m2	201	-	-	12/25/74/74	0/4/4/4
43	BCR	ZE	101	27	-	12/29/63/63	0/2/2/2
42	LHG	DE	410	-	-	17/53/53/53	-
36	CLA	CE	513	-	1/1/15/20	14/37/115/115	-
33	CYC	QB	201	4,3	-	6/25/74/74	0/4/4/4
33	CYC	V4	201	3	-	14/25/74/74	0/4/4/4
33	CYC	cJ	202	32	-	12/25/74/74	0/4/4/4
43	BCR	I1	102	13	-	10/29/63/63	0/2/2/2
33	CYC	v4	201	4	-	7/25/74/74	0/4/4/4
36	CLA	c1	505	8	1/1/15/20	16/37/115/115	-
33	CYC	JK	201	3	-	6/25/74/74	0/4/4/4
33	CYC	iC	202	-	-	6/25/74/74	0/4/4/4
45	PHO	aD	412	6	-	21/37/103/103	0/5/6/6
36	CLA	DE	405	-	1/1/15/20	11/37/115/115	-
33	CYC	RB	201	4,5	-	9/25/74/74	0/4/4/4
33	CYC	nK	201	3,4	-	5/25/74/74	0/4/4/4
33	CYC	BC	301	32	-	6/25/74/74	0/4/4/4
33	CYC	bC	201	-	-	12/25/74/74	0/4/4/4
36	CLA	c1	510	8	1/1/15/20	21/37/115/115	-
33	CYC	l6	201	-	-	12/25/74/74	0/4/4/4
38	SQD	dD	414	9	-	10/29/49/69	0/1/1/1
33	CYC	bF	201	3	-	8/25/74/74	0/4/4/4
43	BCR	c1	515	36,8	-	12/29/63/63	0/2/2/2
33	CYC	g2	201	32	-	12/25/74/74	0/4/4/4
40	LMT	BD	619	-	-	6/15/35/61	0/1/1/2
36	CLA	aE	405	-	1/1/15/20	14/37/115/115	-
39	LMG	B1	618	7	-	7/46/66/70	0/1/1/1
43	BCR	bD	616	36,7	-	7/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
36	CLA	c1	512	-	1/1/15/20	15/37/115/115	-
36	CLA	BD	613	43	1/1/15/20	14/37/115/115	-
33	CYC	l3	201	-	-	12/25/74/74	0/4/4/4
43	BCR	BD	616	7	-	2/29/63/63	0/2/2/2
43	BCR	BE	615	36,7	-	7/29/63/63	0/2/2/2
33	CYC	i8	202	-	-	6/25/74/74	0/4/4/4
33	CYC	e2	201	32	-	6/25/74/74	0/4/4/4
33	CYC	gK	201	29	-	7/25/74/74	0/4/4/4
36	CLA	CD	504	-	1/1/15/20	8/37/115/115	-
36	CLA	CD	514	-	1/1/12/20	5/19/97/115	-
33	CYC	b9	201	-	-	12/25/74/74	0/4/4/4
33	CYC	iA	202	-	-	6/25/74/74	0/4/4/4
36	CLA	CD	506	8	1/1/15/20	17/37/115/115	-
33	CYC	m7	201	-	-	12/25/74/74	0/4/4/4
43	BCR	d1	407	-	-	7/29/63/63	0/2/2/2
36	CLA	BE	602	7	1/1/15/20	14/37/115/115	-
36	CLA	cE	514	-	1/1/15/20	15/37/115/115	-
33	CYC	e2	202	-	-	12/25/74/74	0/4/4/4
40	LMT	AD	409	-	-	7/15/35/61	0/1/1/2
33	CYC	OL	201	4	-	5/25/74/74	0/4/4/4
33	CYC	eJ	201	32	-	6/25/74/74	0/4/4/4
37	PL9	A1	406	-	-	14/53/73/73	0/1/1/1
33	CYC	B3	301	32	-	6/25/74/74	0/4/4/4
33	CYC	mH	201	-	-	12/25/74/74	0/4/4/4
33	CYC	b4	101	4,5	-	11/25/74/74	0/4/4/4
33	CYC	c6	202	32	-	12/25/74/74	0/4/4/4
44	DGD	cD	517	-	-	17/51/91/95	0/2/2/2
33	CYC	C4	1003	2	-	6/25/74/74	0/4/4/4
38	SQD	CE	501	8	-	10/49/69/69	0/1/1/1
36	CLA	c1	507	43,8	1/1/15/20	18/37/115/115	-
36	CLA	hE	101	43	1/1/15/20	11/37/115/115	-
33	CYC	eI	201	32	-	6/25/74/74	0/4/4/4
40	LMT	A1	413	-	-	14/21/61/61	0/2/2/2
44	DGD	cD	518	-	-	12/51/91/95	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
45	PHO	aE	412	-	-	13/28/94/103	0/5/6/6
36	CLA	CD	507	-	1/1/13/20	14/25/103/115	-
36	CLA	bD	608	-	1/1/14/20	10/31/109/115	-
33	CYC	VB	201	3	-	14/25/74/74	0/4/4/4
44	DGD	HE	103	-	-	13/51/91/95	0/2/2/2
36	CLA	BE	603	7	1/1/15/20	16/37/115/115	-
43	BCR	CD	516	36,8	-	10/29/63/63	0/2/2/2
36	CLA	CE	509	8	1/1/15/20	13/37/115/115	-
39	LMG	jE	102	39,14	-	13/22/42/70	0/1/1/1
40	LMT	DD	404	-	-	8/15/35/61	0/1/1/2
33	CYC	j6	201	-	-	12/25/74/74	0/4/4/4
37	PL9	DE	408	9	-	8/53/73/73	0/1/1/1
40	LMT	AD	412	-	-	14/21/61/61	0/2/2/2
33	CYC	h8	201	-	-	12/25/74/74	0/4/4/4
33	CYC	jK	201	4	-	6/25/74/74	0/4/4/4
44	DGD	hD	104	-	-	13/51/91/95	0/2/2/2
36	CLA	bE	610	-	1/1/15/20	15/37/115/115	-
36	CLA	bD	606	7	1/1/15/20	16/37/115/115	-
33	CYC	gH	202	32	-	6/25/74/74	0/4/4/4
43	BCR	BD	617	-	-	4/29/63/63	0/2/2/2
33	CYC	eA	201	32	-	6/25/74/74	0/4/4/4
39	LMG	CD	502	-	-	13/46/66/70	0/1/1/1
40	LMT	CD	522	-	-	8/15/35/61	0/1/1/2
36	CLA	cE	512	-	1/1/15/20	15/37/115/115	-
33	CYC	b7	201	-	-	12/25/74/74	0/4/4/4
44	DGD	H1	103	-	-	13/51/91/95	0/2/2/2
33	CYC	aK	201	4	-	9/25/74/74	0/4/4/4
44	DGD	CE	517	8	-	15/36/76/95	0/2/2/2
37	PL9	d1	408	9	-	8/53/73/73	0/1/1/1
33	CYC	k5	201	-	-	6/25/74/74	0/4/4/4
42	LHG	AD	411	6	-	10/42/42/53	-
36	CLA	BD	606	-	1/1/14/20	10/31/109/115	-
33	CYC	k6	201	-	-	6/25/74/74	0/4/4/4
36	CLA	b1	605	7	1/1/15/20	16/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	CYC	gJ	202	32	-	6/25/74/74	0/4/4/4
33	CYC	i9	201	-	-	12/25/74/74	0/4/4/4
33	CYC	KK	201	4	-	9/25/74/74	0/4/4/4
36	CLA	BE	612	-	1/1/15/20	15/37/115/115	-
33	CYC	f8	201	31	-	12/25/74/74	0/4/4/4
33	CYC	dK	201	3	-	6/25/74/74	0/4/4/4
39	LMG	DE	411	9	-	12/46/66/70	0/1/1/1
42	LHG	eD	101	-	-	16/44/44/53	-
44	DGD	JD	101	-	-	10/51/91/95	0/2/2/2
39	LMG	TD	101	-	-	7/31/51/70	0/1/1/1
33	CYC	CB	1001	2,4	-	14/25/74/74	0/4/4/4
36	CLA	bD	603	-	1/1/11/20	7/13/91/115	-
33	CYC	l2	201	-	-	12/25/74/74	0/4/4/4
36	CLA	bE	607	-	-	12/37/115/115	-
38	SQD	cD	502	8	-	17/49/69/69	0/1/1/1
36	CLA	B1	614	7	-	12/37/115/115	-
33	CYC	jA	202	-	-	12/25/74/74	0/4/4/4
38	SQD	h1	103	12	-	17/30/50/69	0/1/1/1
45	PHO	d1	402	9	-	16/37/103/103	0/5/6/6
33	CYC	6L	201	3	-	7/25/74/74	0/4/4/4
36	CLA	b1	604	7	1/1/15/20	14/37/115/115	-
36	CLA	bE	613	-	1/1/15/20	15/37/115/115	-
36	CLA	BE	608	-	1/1/15/20	14/37/115/115	-
33	CYC	i7	202	-	-	6/25/74/74	0/4/4/4
33	CYC	gI	201	32	-	12/25/74/74	0/4/4/4
36	CLA	I1	101	13,6	1/1/14/20	15/31/109/115	-
33	CYC	i5	201	-	-	12/25/74/74	0/4/4/4
45	PHO	DE	401	-	-	21/37/103/103	0/5/6/6
33	CYC	f3	201	31	-	12/25/74/74	0/4/4/4
33	CYC	B7	301	32	-	6/25/74/74	0/4/4/4
33	CYC	3K	101	4,5	-	7/25/74/74	0/4/4/4
43	BCR	DE	407	-	-	7/29/63/63	0/2/2/2
33	CYC	b2	201	-	-	12/25/74/74	0/4/4/4
36	CLA	BE	607	7	1/1/15/20	14/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	CYC	jJ	202	-	-	12/25/74/74	0/4/4/4
40	LMT	i1	102	-	-	7/15/35/61	0/1/1/2
33	CYC	g9	201	32	-	12/25/74/74	0/4/4/4
36	CLA	b1	610	-	1/1/15/20	15/37/115/115	-
36	CLA	C1	511	8	1/1/15/20	19/37/115/115	-
33	CYC	j2	201	-	-	12/25/74/74	0/4/4/4
33	CYC	BB	1002	2	-	6/25/74/74	0/4/4/4
38	SQD	dE	414	9	-	10/29/49/69	0/1/1/1
33	CYC	qB	201	3	-	7/25/74/74	0/4/4/4
39	LMG	yD	101	39	-	15/46/66/70	0/1/1/1
33	CYC	OB	201	3	-	7/25/74/74	0/4/4/4
33	CYC	jF	201	4	-	6/25/74/74	0/4/4/4
38	SQD	AD	407	-	-	19/41/61/69	0/1/1/1
39	LMG	J1	102	39,14	-	9/22/42/70	0/1/1/1
43	BCR	b1	618	-	-	4/29/63/63	0/2/2/2
47	HEM	VE	201	24	-	5/12/54/54	-
33	CYC	B4	1004	4,2	-	8/25/74/74	0/4/4/4
36	CLA	CE	504	-	1/1/15/20	8/37/115/115	-
39	LMG	DD	411	9	-	12/46/66/70	0/1/1/1
40	LMT	iD	103	-	-	7/15/35/61	0/1/1/2
33	CYC	bA	201	-	-	12/25/74/74	0/4/4/4
36	CLA	D1	405	9	1/1/15/20	13/37/115/115	-
33	CYC	fI	201	31	-	12/25/74/74	0/4/4/4
39	LMG	TE	101	-	-	7/31/51/70	0/1/1/1
36	CLA	h1	101	43	1/1/15/20	11/37/115/115	-
37	PL9	dE	408	9	-	8/53/73/73	0/1/1/1
40	LMT	j1	101	-	-	11/21/61/61	0/2/2/2
43	BCR	XD	102	25,36	-	7/29/63/63	0/2/2/2
39	LMG	tD	101	22	-	7/31/51/70	0/1/1/1
43	BCR	bE	617	7	-	2/29/63/63	0/2/2/2
36	CLA	C1	504	-	1/1/15/20	8/37/115/115	-
43	BCR	b1	616	36,7	-	7/29/63/63	0/2/2/2
33	CYC	i2	201	-	-	12/25/74/74	0/4/4/4
33	CYC	g3	201	32	-	12/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
38	SQD	hE	103	12	-	17/30/50/69	0/1/1/1
36	CLA	bD	605	7	1/1/15/20	16/37/115/115	-
33	CYC	WG	201	4	-	4/25/74/74	0/4/4/4
45	PHO	DE	403	9	-	18/37/103/103	0/5/6/6
36	CLA	cD	512	-	1/1/15/20	15/37/115/115	-
33	CYC	iA	201	-	-	12/25/74/74	0/4/4/4
40	LMT	D1	411	-	-	10/17/37/61	0/1/1/2
36	CLA	cD	513	-	1/1/12/20	7/19/97/115	-
36	CLA	b1	613	-	1/1/15/20	15/37/115/115	-
33	CYC	kF	201	3	-	8/25/74/74	0/4/4/4
33	CYC	cI	201	-	-	6/25/74/74	0/4/4/4
36	CLA	c1	509	8	-	8/37/115/115	-
39	LMG	bE	619	7	-	7/46/66/70	0/1/1/1
33	CYC	VL	201	30	-	13/25/74/74	0/4/4/4
33	CYC	kC	201	-	-	6/25/74/74	0/4/4/4
43	BCR	DD	407	-	-	7/29/63/63	0/2/2/2
43	BCR	CE	516	36,8	-	10/29/63/63	0/2/2/2
33	CYC	j3	201	-	-	12/25/74/74	0/4/4/4
33	CYC	y4	201	3	-	10/25/74/74	0/4/4/4
33	CYC	c2	202	32	-	12/25/74/74	0/4/4/4
36	CLA	bE	603	-	1/1/11/20	7/13/91/115	-
40	LMT	d1	404	-	-	8/15/35/61	0/1/1/2
33	CYC	BB	1004	2,4	-	8/25/74/74	0/4/4/4
36	CLA	BD	605	-	-	11/37/115/115	-
33	CYC	e3	202	-	-	12/25/74/74	0/4/4/4
33	CYC	ZB	201	3	-	4/25/74/74	0/4/4/4
36	CLA	XD	101	25	1/1/15/20	20/37/115/115	-
36	CLA	h1	102	12	1/1/14/20	10/31/109/115	-
36	CLA	dD	406	9	1/1/15/20	13/37/115/115	-
33	CYC	cH	202	32	-	12/25/74/74	0/4/4/4
33	CYC	j5	202	-	-	12/25/74/74	0/4/4/4
36	CLA	cD	507	43,8	1/1/15/20	18/37/115/115	-
33	CYC	d5	201	-	-	12/25/74/74	0/4/4/4
43	BCR	i1	101	-	-	6/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
36	CLA	AE	404	-	1/1/11/20	6/15/93/115	-
36	CLA	C1	506	8	1/1/15/20	17/37/115/115	-
36	CLA	C1	505	-	1/1/15/20	6/37/115/115	-
33	CYC	YF	201	4	-	6/25/74/74	0/4/4/4
40	LMT	d1	413	-	-	8/13/33/61	0/1/1/2
45	PHO	dD	402	9	-	9/23/89/103	0/5/6/6
36	CLA	cD	509	8	-	8/37/115/115	-
36	CLA	b1	611	-	1/1/15/20	18/37/115/115	-
36	CLA	bE	605	7	1/1/15/20	16/37/115/115	-
33	CYC	g7	201	32	-	12/25/74/74	0/4/4/4
33	CYC	iJ	202	-	-	6/25/74/74	0/4/4/4
33	CYC	s4	201	3	-	9/25/74/74	0/4/4/4
36	CLA	CD	510	8	-	8/37/115/115	-
39	LMG	BE	618	7	-	7/46/66/70	0/1/1/1
36	CLA	C1	503	-	1/1/15/20	15/37/115/115	-
45	PHO	D1	402	9	-	17/37/103/103	0/5/6/6
39	LMG	jD	102	39,14	-	13/22/42/70	0/1/1/1
36	CLA	BE	606	-	1/1/14/20	10/31/109/115	-
36	CLA	c1	506	-	1/1/13/20	10/25/103/115	-
33	CYC	eC	202	-	-	12/25/74/74	0/4/4/4
36	CLA	HD	101	43	1/1/15/20	11/37/115/115	-
33	CYC	eI	202	-	-	12/25/74/74	0/4/4/4
40	LMT	bE	620	-	-	6/15/35/61	0/1/1/2
36	CLA	DE	406	9	1/1/15/20	13/37/115/115	-
33	CYC	i6	201	-	-	12/25/74/74	0/4/4/4
37	PL9	DD	408	9	-	8/53/73/73	0/1/1/1
36	CLA	d1	406	9	1/1/15/20	13/37/115/115	-
33	CYC	OG	201	4	-	6/25/74/74	0/4/4/4
39	LMG	b1	619	7	-	7/46/66/70	0/1/1/1
33	CYC	PG	201	3	-	10/25/74/74	0/4/4/4
33	CYC	fK	201	3	-	9/25/74/74	0/4/4/4
33	CYC	PL	201	3	-	10/25/74/74	0/4/4/4
36	CLA	a1	407	6	1/1/14/20	16/31/109/115	-
33	CYC	BB	1001	2,4	-	11/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	CYC	mJ	201	-	-	12/25/74/74	0/4/4/4
33	CYC	l5	201	-	-	12/25/74/74	0/4/4/4
36	CLA	B1	605	-	-	11/37/115/115	-
36	CLA	hD	102	12	1/1/14/20	10/31/109/115	-
42	LHG	B1	621	-	-	20/53/53/53	-
39	LMG	dE	411	9	-	12/46/66/70	0/1/1/1
36	CLA	C1	515	-	1/1/15/20	16/37/115/115	-
33	CYC	e8	202	-	-	12/25/74/74	0/4/4/4
33	CYC	iH	201	-	-	12/25/74/74	0/4/4/4
36	CLA	CE	515	-	1/1/15/20	16/37/115/115	-
33	CYC	5L	201	4,5	-	11/25/74/74	0/4/4/4
33	CYC	e7	202	-	-	12/25/74/74	0/4/4/4
39	LMG	CD	519	39	-	11/46/66/70	0/1/1/1
33	CYC	e7	201	32	-	6/25/74/74	0/4/4/4
36	CLA	XE	101	25	1/1/15/20	20/37/115/115	-
33	CYC	jA	201	-	-	12/25/74/74	0/4/4/4
33	CYC	h9	201	-	-	12/25/74/74	0/4/4/4
36	CLA	BE	610	-	1/1/15/20	18/37/115/115	-
33	CYC	iJ	201	-	-	12/25/74/74	0/4/4/4
36	CLA	cE	507	43,8	1/1/15/20	18/37/115/115	-
36	CLA	BD	603	7	1/1/15/20	16/37/115/115	-
38	SQD	BD	621	-	-	14/33/53/69	0/1/1/1
36	CLA	a1	405	-	1/1/11/20	5/15/93/115	-
33	CYC	ZK	201	3	-	10/25/74/74	0/4/4/4
33	CYC	kJ	201	-	-	6/25/74/74	0/4/4/4
33	CYC	C4	1002	4,2	-	9/25/74/74	0/4/4/4
33	CYC	LG	201	4,2	-	9/25/74/74	0/4/4/4
33	CYC	f6	201	31	-	12/25/74/74	0/4/4/4
33	CYC	dJ	201	-	-	12/25/74/74	0/4/4/4
37	PL9	AE	406	-	-	14/53/73/73	0/1/1/1
40	LMT	b1	602	-	-	6/15/35/61	0/1/1/2
33	CYC	lH	201	-	-	12/25/74/74	0/4/4/4
40	LMT	cE	501	-	-	8/15/35/61	0/1/1/2
39	LMG	y1	101	39	-	15/46/66/70	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	CYC	IL	201	-	-	6/25/74/74	0/4/4/4
33	CYC	II	201	-	-	12/25/74/74	0/4/4/4
36	CLA	B1	608	-	1/1/15/20	14/37/115/115	-
36	CLA	d1	403	-	1/1/15/20	14/37/115/115	-
42	LHG	e1	101	-	-	16/44/44/53	-
33	CYC	T4	201	4	-	13/25/74/74	0/4/4/4
36	CLA	HD	102	12	1/1/14/20	10/31/109/115	-
40	LMT	BE	622	-	-	8/21/61/61	0/2/2/2
44	DGD	c1	517	-	-	17/51/91/95	0/2/2/2
43	BCR	hE	105	25,36,12	-	7/29/63/63	0/2/2/2
33	CYC	cA	202	32	-	12/25/74/74	0/4/4/4
38	SQD	L1	102	-	-	11/38/58/69	0/1/1/1
43	BCR	CD	520	-	-	2/29/63/63	0/2/2/2
42	LHG	DE	409	-	-	14/53/53/53	-
33	CYC	b3	201	-	-	12/25/74/74	0/4/4/4
33	CYC	j9	201	-	-	12/25/74/74	0/4/4/4
43	BCR	cE	515	36,8	-	12/29/63/63	0/2/2/2
33	CYC	BA	301	32	-	6/25/74/74	0/4/4/4
33	CYC	9K	201	3	-	5/25/74/74	0/4/4/4
36	CLA	c1	503	-	1/1/15/20	9/37/115/115	-
33	CYC	XF	201	3	-	12/25/74/74	0/4/4/4
36	CLA	CD	513	-	1/1/15/20	14/37/115/115	-
38	SQD	C1	501	8	-	10/49/69/69	0/1/1/1
33	CYC	JL	201	4,3	-	8/25/74/74	0/4/4/4
33	CYC	eK	201	4	-	8/25/74/74	0/4/4/4
43	BCR	X1	102	25,36	-	7/29/63/63	0/2/2/2
36	CLA	hD	101	43	1/1/15/20	11/37/115/115	-
33	CYC	cC	201	-	-	6/25/74/74	0/4/4/4
40	LMT	BD	622	-	-	8/21/61/61	0/2/2/2
43	BCR	cD	519	-	-	3/29/63/63	0/2/2/2
33	CYC	m3	201	-	-	12/25/74/74	0/4/4/4
40	LMT	bD	620	-	-	6/15/35/61	0/1/1/2
33	CYC	mK	201	30	-	13/25/74/74	0/4/4/4
36	CLA	bD	614	43	1/1/15/20	14/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	CYC	j9	202	-	-	12/25/74/74	0/4/4/4
36	CLA	BD	614	7	-	12/37/115/115	-
33	CYC	fA	201	31	-	12/25/74/74	0/4/4/4
38	SQD	c1	501	8	-	17/49/69/69	0/1/1/1
39	LMG	A1	408	-	-	9/31/51/70	0/1/1/1
36	CLA	bE	609	7	1/1/15/20	14/37/115/115	-
42	LHG	DD	410	-	-	17/53/53/53	-
36	CLA	cE	509	8	-	8/37/115/115	-
40	LMT	A1	409	-	-	7/15/35/61	0/1/1/2
38	SQD	d1	414	9	-	10/29/49/69	0/1/1/1
42	LHG	aD	411	6	-	12/42/42/53	-
38	SQD	CD	501	8	-	10/49/69/69	0/1/1/1
33	CYC	9F	201	3	-	5/25/74/74	0/4/4/4
33	CYC	IG	201	3	-	6/25/74/74	0/4/4/4
33	CYC	cH	201	-	-	6/25/74/74	0/4/4/4
33	CYC	WB	201	4	-	10/25/74/74	0/4/4/4
44	DGD	c1	516	8	-	15/36/76/95	0/2/2/2
38	SQD	LD	102	-	-	11/38/58/69	0/1/1/1
44	DGD	CE	518	-	-	19/51/91/95	0/2/2/2
33	CYC	iI	201	-	-	12/25/74/74	0/4/4/4
40	LMT	bE	602	-	-	6/15/35/61	0/1/1/2
33	CYC	LF	201	4,3	-	6/25/74/74	0/4/4/4
33	CYC	4L	201	3	-	9/25/74/74	0/4/4/4
33	CYC	3F	102	4,5	-	5/25/74/74	0/4/4/4
33	CYC	gF	201	29	-	7/25/74/74	0/4/4/4
44	DGD	JE	101	-	-	10/51/91/95	0/2/2/2
33	CYC	gH	201	32	-	12/25/74/74	0/4/4/4
33	CYC	GL	201	3,4	-	8/25/74/74	0/4/4/4
33	CYC	JG	201	4,3	-	8/25/74/74	0/4/4/4
33	CYC	h5	201	-	-	12/25/74/74	0/4/4/4
39	LMG	CE	519	39	-	11/46/66/70	0/1/1/1
44	DGD	h1	104	-	-	12/51/91/95	0/2/2/2
47	HEM	vD	201	24	-	5/12/54/54	-
33	CYC	O4	201	3	-	7/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
42	LHG	AE	411	6	-	10/42/42/53	-
36	CLA	bD	612	7	1/1/15/20	17/37/115/115	-
36	CLA	BE	605	-	-	11/37/115/115	-
33	CYC	c9	201	-	-	6/25/74/74	0/4/4/4
33	CYC	e5	202	-	-	12/25/74/74	0/4/4/4
47	HEM	fD	101	-	-	8/12/54/54	-
33	CYC	BB	1003	2,4	-	7/25/74/74	0/4/4/4
33	CYC	m6	201	-	-	12/25/74/74	0/4/4/4
33	CYC	c5	201	-	-	6/25/74/74	0/4/4/4
33	CYC	kH	201	-	-	6/25/74/74	0/4/4/4
47	HEM	f1	101	-	-	8/12/54/54	-
33	CYC	AG	201	3,4	-	7/25/74/74	0/4/4/4
36	CLA	B1	609	-	1/1/15/20	15/37/115/115	-
40	LMT	b1	601	7	-	9/21/61/61	0/2/2/2
33	CYC	d2	201	-	-	12/25/74/74	0/4/4/4
36	CLA	BD	612	-	1/1/15/20	15/37/115/115	-
42	LHG	lD	101	-	-	20/53/53/53	-
33	CYC	g5	201	32	-	12/25/74/74	0/4/4/4
36	CLA	aD	405	-	1/1/15/20	14/37/115/115	-
43	BCR	C1	520	-	-	2/29/63/63	0/2/2/2
39	LMG	a1	410	-	-	12/31/51/70	0/1/1/1
33	CYC	ML	201	2,4	-	13/25/74/74	0/4/4/4
36	CLA	CD	509	8	1/1/15/20	13/37/115/115	-
33	CYC	m9	201	-	-	12/25/74/74	0/4/4/4
33	CYC	hI	201	-	-	12/25/74/74	0/4/4/4
33	CYC	aB	201	4,5	-	7/25/74/74	0/4/4/4
36	CLA	B1	604	7	1/1/15/20	16/37/115/115	-
36	CLA	B1	601	-	1/1/11/20	7/13/91/115	-
33	CYC	gA	201	32	-	12/25/74/74	0/4/4/4
33	CYC	d7	201	-	-	12/25/74/74	0/4/4/4
42	LHG	BE	620	-	-	20/53/53/53	-
36	CLA	AE	405	-	1/1/15/20	12/37/115/115	-
33	CYC	WL	201	4	-	4/25/74/74	0/4/4/4
33	CYC	r4	201	4,2	-	8/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	CYC	jH	201	-	-	12/25/74/74	0/4/4/4
33	CYC	NK	101	4,5	-	8/25/74/74	0/4/4/4
36	CLA	A1	404	-	1/1/11/20	6/15/93/115	-
33	CYC	iI	202	-	-	6/25/74/74	0/4/4/4
44	DGD	cE	516	8	-	15/36/76/95	0/2/2/2
36	CLA	bD	607	-	-	11/37/115/115	-
40	LMT	BE	623	7	-	8/15/35/61	0/1/1/2
39	LMG	JD	102	39,14	-	9/22/42/70	0/1/1/1
33	CYC	g6	201	32	-	12/25/74/74	0/4/4/4
33	CYC	kA	201	-	-	6/25/74/74	0/4/4/4
40	LMT	bD	601	7	-	9/21/61/61	0/2/2/2
43	BCR	ZD	101	27	-	12/29/63/63	0/2/2/2
33	CYC	oB	201	3	-	11/25/74/74	0/4/4/4
33	CYC	w4	201	3	-	10/25/74/74	0/4/4/4
33	CYC	b5	201	-	-	12/25/74/74	0/4/4/4
36	CLA	d1	405	-	1/1/15/20	11/37/115/115	-
40	LMT	DE	412	-	-	10/17/37/61	0/1/1/2
36	CLA	BE	613	43	1/1/15/20	14/37/115/115	-
33	CYC	dC	201	-	-	12/25/74/74	0/4/4/4
36	CLA	bD	604	7	1/1/15/20	14/37/115/115	-
33	CYC	l7	201	-	-	12/25/74/74	0/4/4/4
33	CYC	j3	202	-	-	12/25/74/74	0/4/4/4
33	CYC	cJ	201	-	-	6/25/74/74	0/4/4/4
33	CYC	IF	201	4	-	10/25/74/74	0/4/4/4
33	CYC	c8	201	-	-	6/25/74/74	0/4/4/4
33	CYC	fF	201	3	-	9/25/74/74	0/4/4/4
43	BCR	IE	102	13	-	10/29/63/63	0/2/2/2
36	CLA	B1	611	7	1/1/15/20	17/37/115/115	-
33	CYC	l8	201	-	-	12/25/74/74	0/4/4/4
36	CLA	b1	615	7	-	12/37/115/115	-
36	CLA	DD	405	-	1/1/15/20	11/37/115/115	-
36	CLA	CD	515	-	1/1/15/20	16/37/115/115	-
36	CLA	BD	602	7	1/1/15/20	14/37/115/115	-
33	CYC	k3	201	-	-	6/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
36	CLA	C1	508	43,8	1/1/15/20	13/37/115/115	-
33	CYC	i6	202	-	-	6/25/74/74	0/4/4/4
33	CYC	e6	201	32	-	6/25/74/74	0/4/4/4
33	CYC	X4	201	4,3	-	8/25/74/74	0/4/4/4
33	CYC	c7	201	-	-	6/25/74/74	0/4/4/4
43	BCR	hD	105	25,36,12	-	7/29/63/63	0/2/2/2
36	CLA	X1	101	25	1/1/15/20	20/37/115/115	-
33	CYC	XB	201	4,3	-	8/25/74/74	0/4/4/4
40	LMT	DD	413	-	-	6/13/33/61	0/1/1/2
40	LMT	iE	103	-	-	7/15/35/61	0/1/1/2
45	PHO	a1	413	-	-	8/23/89/103	0/5/6/6
33	CYC	5G	201	4,5	-	11/25/74/74	0/4/4/4
33	CYC	iC	201	-	-	12/25/74/74	0/4/4/4
33	CYC	d6	201	-	-	12/25/74/74	0/4/4/4
33	CYC	IK	201	4	-	10/25/74/74	0/4/4/4
33	CYC	B4	1003	4,2	-	7/25/74/74	0/4/4/4
42	LHG	aE	411	6	-	12/42/42/53	-
36	CLA	CD	505	-	1/1/15/20	6/37/115/115	-
36	CLA	B1	607	7	1/1/15/20	14/37/115/115	-
43	BCR	cE	519	-	-	3/29/63/63	0/2/2/2
36	CLA	cE	510	8	1/1/15/20	21/37/115/115	-
36	CLA	c1	502	-	1/1/15/20	12/37/115/115	-
39	LMG	tE	101	22	-	7/31/51/70	0/1/1/1
42	LHG	dE	409	-	-	14/53/53/53	-
43	BCR	bE	616	36,7	-	7/29/63/63	0/2/2/2
36	CLA	x1	101	25	1/1/15/20	20/37/115/115	-
36	CLA	B1	612	-	1/1/15/20	15/37/115/115	-
39	LMG	C1	519	39	-	11/46/66/70	0/1/1/1
33	CYC	NL	201	3	-	5/25/74/74	0/4/4/4
43	BCR	ID	102	13	-	10/29/63/63	0/2/2/2
40	LMT	jD	101	-	-	11/21/61/61	0/2/2/2
40	LMT	dE	404	-	-	8/15/35/61	0/1/1/2
39	LMG	JE	102	39,14	-	9/22/42/70	0/1/1/1
39	LMG	mE	101	-	-	9/31/51/70	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	CYC	k8	201	-	-	6/25/74/74	0/4/4/4
40	LMT	jE	101	-	-	11/21/61/61	0/2/2/2
36	CLA	BD	609	-	1/1/15/20	15/37/115/115	-
36	CLA	iD	101	-	1/1/13/20	10/25/103/115	-
33	CYC	PB	201	4	-	10/25/74/74	0/4/4/4
36	CLA	CE	510	8	-	8/37/115/115	-
40	LMT	DD	412	-	-	10/17/37/61	0/1/1/2
33	CYC	f5	201	31	-	12/25/74/74	0/4/4/4
36	CLA	bE	612	7	1/1/15/20	17/37/115/115	-
33	CYC	g8	201	32	-	12/25/74/74	0/4/4/4
43	BCR	XE	102	25,36	-	7/29/63/63	0/2/2/2
45	PHO	DD	401	-	-	18/37/103/103	0/5/6/6
36	CLA	BE	601	-	1/1/11/20	7/13/91/115	-
43	BCR	cD	515	36,8	-	12/29/63/63	0/2/2/2
33	CYC	GG	201	3,4	-	8/25/74/74	0/4/4/4
43	BCR	Z1	102	-	-	2/29/63/63	0/2/2/2
39	LMG	aD	409	-	-	12/31/51/70	0/1/1/1
39	LMG	t1	101	22	-	7/31/51/70	0/1/1/1
36	CLA	BD	601	-	1/1/11/20	7/13/91/115	-
36	CLA	b1	614	43	1/1/15/20	14/37/115/115	-
37	PL9	a1	409	-	-	15/53/73/73	0/1/1/1
43	BCR	BE	616	7	-	2/29/63/63	0/2/2/2
36	CLA	cD	504	-	1/1/15/20	9/37/115/115	-
44	DGD	CD	518	-	-	19/51/91/95	0/2/2/2
33	CYC	o4	201	3	-	11/25/74/74	0/4/4/4
33	CYC	j8	202	-	-	12/25/74/74	0/4/4/4
33	CYC	uB	201	3,4	-	10/25/74/74	0/4/4/4
36	CLA	c1	508	8	1/1/15/20	9/37/115/115	-
33	CYC	m8	201	-	-	12/25/74/74	0/4/4/4
42	LHG	eE	101	-	-	16/44/44/53	-
33	CYC	gJ	201	32	-	12/25/74/74	0/4/4/4
38	SQD	AE	407	-	-	19/41/61/69	0/1/1/1
39	LMG	D1	410	9	-	12/46/66/70	0/1/1/1
33	CYC	h2	201	-	-	12/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	LMG	MD	101	-	-	9/31/51/70	0/1/1/1
33	CYC	fJ	201	31	-	12/25/74/74	0/4/4/4
36	CLA	xD	101	25	1/1/15/20	20/37/115/115	-
40	LMT	cD	501	-	-	8/15/35/61	0/1/1/2
33	CYC	d9	201	-	-	12/25/74/74	0/4/4/4
33	CYC	CB	1003	2	-	6/25/74/74	0/4/4/4
36	CLA	cE	504	-	1/1/15/20	9/37/115/115	-
33	CYC	g5	202	32	-	6/25/74/74	0/4/4/4
39	LMG	aE	407	-	-	9/46/66/70	0/1/1/1
43	BCR	iD	102	-	-	6/29/63/63	0/2/2/2
36	CLA	C1	514	-	1/1/12/20	5/19/97/115	-
43	BCR	CD	521	-	-	2/29/63/63	0/2/2/2
36	CLA	cE	506	8	1/1/15/20	16/37/115/115	-
36	CLA	CE	514	-	1/1/12/20	5/19/97/115	-
36	CLA	bE	604	7	1/1/15/20	13/37/115/115	-
36	CLA	B1	602	7	1/1/15/20	14/37/115/115	-
36	CLA	hE	102	12	1/1/14/20	10/31/109/115	-
44	DGD	cD	516	8	-	15/36/76/95	0/2/2/2
36	CLA	CD	503	-	1/1/15/20	15/37/115/115	-
33	CYC	eA	202	-	-	12/25/74/74	0/4/4/4
33	CYC	4G	201	3	-	9/25/74/74	0/4/4/4
33	CYC	B4	1001	4,2	-	11/25/74/74	0/4/4/4
33	CYC	AL	201	3,4	-	7/25/74/74	0/4/4/4
43	BCR	bD	618	-	-	4/29/63/63	0/2/2/2
33	CYC	vB	201	4	-	7/25/74/74	0/4/4/4
44	DGD	CD	517	8	-	15/36/76/95	0/2/2/2
36	CLA	ID	101	13,6	1/1/14/20	15/31/109/115	-
33	CYC	jC	201	-	-	12/25/74/74	0/4/4/4
33	CYC	bK	201	3	-	8/25/74/74	0/4/4/4
43	BCR	k1	102	-	-	2/29/63/63	0/2/2/2
36	CLA	bE	614	43	1/1/15/20	14/37/115/115	-
33	CYC	j6	202	-	-	12/25/74/74	0/4/4/4
33	CYC	bJ	201	-	-	12/25/74/74	0/4/4/4
33	CYC	fH	201	31	-	12/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
36	CLA	C1	513	-	1/1/15/20	14/37/115/115	-
43	BCR	Z1	101	27	-	12/29/63/63	0/2/2/2
33	CYC	RG	201	3,4	-	8/25/74/74	0/4/4/4
33	CYC	eH	201	32	-	6/25/74/74	0/4/4/4
39	LMG	aD	407	-	-	9/46/66/70	0/1/1/1
43	BCR	BE	617	-	-	4/29/63/63	0/2/2/2
36	CLA	CE	505	-	1/1/15/20	6/37/115/115	-
33	CYC	S4	201	3,4	-	11/25/74/74	0/4/4/4
33	CYC	i3	201	-	-	12/25/74/74	0/4/4/4
36	CLA	CE	508	43,8	1/1/15/20	13/37/115/115	-
36	CLA	bE	611	-	1/1/15/20	18/37/115/115	-
42	LHG	a1	412	6	-	12/42/42/53	-
36	CLA	cD	506	8	1/1/15/20	16/37/115/115	-
37	PL9	D1	407	9	-	8/53/73/73	0/1/1/1
44	DGD	J1	101	-	-	10/51/91/95	0/2/2/2
33	CYC	cC	202	32	-	12/25/74/74	0/4/4/4
33	CYC	c6	201	-	-	6/25/74/74	0/4/4/4
42	LHG	BD	620	-	-	20/53/53/53	-
36	CLA	aE	406	6	1/1/14/20	16/31/109/115	-
33	CYC	j8	201	-	-	12/25/74/74	0/4/4/4
39	LMG	a1	408	-	-	9/46/66/70	0/1/1/1
33	CYC	g8	202	32	-	6/25/74/74	0/4/4/4
33	CYC	dA	201	-	-	12/25/74/74	0/4/4/4
33	CYC	bB	101	4,5	-	11/25/74/74	0/4/4/4
39	LMG	m1	101	-	-	9/31/51/70	0/1/1/1
33	CYC	RL	201	3,4	-	8/25/74/74	0/4/4/4
43	BCR	h1	105	25,36,12	-	7/29/63/63	0/2/2/2
38	SQD	D1	413	9	-	10/29/49/69	0/1/1/1
33	CYC	iH	202	-	-	6/25/74/74	0/4/4/4
33	CYC	jI	201	-	-	12/25/74/74	0/4/4/4
33	CYC	1L	201	4	-	11/25/74/74	0/4/4/4
33	CYC	TG	201	3	-	9/25/74/74	0/4/4/4
33	CYC	hJ	201	-	-	12/25/74/74	0/4/4/4
38	SQD	LE	102	-	-	11/38/58/69	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
36	CLA	BD	608	-	1/1/15/20	14/37/115/115	-
36	CLA	cE	505	-	1/1/15/20	6/37/115/115	-
33	CYC	QG	201	29	-	7/25/74/74	0/4/4/4
43	BCR	c1	519	-	-	3/29/63/63	0/2/2/2
40	LMT	B1	619	-	-	6/15/35/61	0/1/1/2
33	CYC	TB	201	4	-	13/25/74/74	0/4/4/4
33	CYC	b6	201	-	-	12/25/74/74	0/4/4/4
36	CLA	a1	406	-	1/1/15/20	14/37/115/115	-
42	LHG	l1	101	-	-	20/53/53/53	-
42	LHG	d1	410	-	-	17/53/53/53	-
36	CLA	H1	102	12	1/1/14/20	10/31/109/115	-
36	CLA	A1	405	-	1/1/15/20	12/37/115/115	-
36	CLA	bD	609	7	1/1/15/20	14/37/115/115	-
44	DGD	C1	517	8	-	15/36/76/95	0/2/2/2
43	BCR	b1	617	7	-	2/29/63/63	0/2/2/2
33	CYC	j7	202	-	-	12/25/74/74	0/4/4/4
38	SQD	hD	103	12	-	17/30/50/69	0/1/1/1
40	LMT	AE	412	-	-	14/21/61/61	0/2/2/2
33	CYC	jJ	201	-	-	12/25/74/74	0/4/4/4
36	CLA	cE	503	-	1/1/15/20	12/37/115/115	-
33	CYC	lA	201	-	-	12/25/74/74	0/4/4/4
33	CYC	mA	201	-	-	12/25/74/74	0/4/4/4
40	LMT	DE	404	-	-	8/15/35/61	0/1/1/2
33	CYC	gC	201	32	-	12/25/74/74	0/4/4/4
33	CYC	W4	201	4	-	10/25/74/74	0/4/4/4
36	CLA	CE	507	-	1/1/13/20	14/25/103/115	-
33	CYC	i5	202	-	-	6/25/74/74	0/4/4/4
36	CLA	bE	615	7	-	12/37/115/115	-
36	CLA	C1	512	-	1/1/15/20	15/37/115/115	-
33	CYC	HL	201	2,4	-	7/25/74/74	0/4/4/4
33	CYC	i2	202	-	-	6/25/74/74	0/4/4/4
40	LMT	C1	521	8	-	8/15/35/61	0/1/1/2
40	LMT	dD	404	-	-	8/15/35/61	0/1/1/2
33	CYC	hC	201	-	-	12/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	CYC	f2	201	31	-	12/25/74/74	0/4/4/4
37	PL9	aD	408	-	-	15/53/73/73	0/1/1/1
42	LHG	lE	101	-	-	20/53/53/53	-
42	LHG	A1	411	6	-	10/42/42/53	-
36	CLA	IE	101	13,6	1/1/14/20	15/31/109/115	-
33	CYC	1G	201	4	-	11/25/74/74	0/4/4/4
33	CYC	j5	201	-	-	12/25/74/74	0/4/4/4
36	CLA	BE	614	7	-	12/37/115/115	-
43	BCR	bE	618	-	-	4/29/63/63	0/2/2/2
33	CYC	hA	201	-	-	12/25/74/74	0/4/4/4
45	PHO	DD	403	9	-	13/29/95/103	0/5/6/6
42	LHG	dD	409	-	-	14/53/53/53	-
36	CLA	BD	604	7	1/1/15/20	16/37/115/115	-
43	BCR	kE	102	-	-	2/29/63/63	0/2/2/2
38	SQD	BE	621	-	-	14/33/53/69	0/1/1/1
33	CYC	6G	201	3	-	7/25/74/74	0/4/4/4
39	LMG	AE	408	-	-	9/31/51/70	0/1/1/1
36	CLA	B1	606	-	1/1/14/20	10/31/109/115	-
33	CYC	hH	201	-	-	12/25/74/74	0/4/4/4
36	CLA	cD	505	-	1/1/15/20	6/37/115/115	-
40	LMT	b1	620	-	-	6/15/35/61	0/1/1/2
33	CYC	d8	201	-	-	12/25/74/74	0/4/4/4
33	CYC	e9	201	32	-	6/25/74/74	0/4/4/4
39	LMG	yE	101	39	-	15/46/66/70	0/1/1/1
38	SQD	DE	414	9	-	10/29/49/69	0/1/1/1
38	SQD	LD	101	-	-	11/38/58/69	0/1/1/1
44	DGD	C1	518	-	-	19/51/91/95	0/2/2/2
39	LMG	bD	619	7	-	7/46/66/70	0/1/1/1
36	CLA	cD	510	8	1/1/15/20	21/37/115/115	-
33	CYC	BI	301	32	-	6/25/74/74	0/4/4/4
43	BCR	D1	406	-	-	7/29/63/63	0/2/2/2
44	DGD	hE	104	-	-	13/51/91/95	0/2/2/2
39	LMG	ME	101	-	-	9/31/51/70	0/1/1/1
33	CYC	MG	201	4,2	-	13/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
36	CLA	cD	503	-	1/1/15/20	12/37/115/115	-
36	CLA	bE	608	-	1/1/14/20	10/31/109/115	-
33	CYC	B4	1002	2	-	6/25/74/74	0/4/4/4
38	SQD	LE	101	-	-	11/38/58/69	0/1/1/1
33	CYC	z4	201	4,2	-	7/25/74/74	0/4/4/4
33	CYC	i3	202	-	-	6/25/74/74	0/4/4/4
33	CYC	nF	201	3,4	-	5/25/74/74	0/4/4/4
33	CYC	i9	202	-	-	6/25/74/74	0/4/4/4
33	CYC	q4	201	3	-	7/25/74/74	0/4/4/4
36	CLA	BE	609	-	1/1/15/20	15/37/115/115	-
33	CYC	fC	201	31	-	12/25/74/74	0/4/4/4
33	CYC	cF	201	4	-	4/25/74/74	0/4/4/4
33	CYC	h3	201	-	-	12/25/74/74	0/4/4/4
36	CLA	H1	101	43	1/1/15/20	11/37/115/115	-
40	LMT	D1	412	-	-	6/13/33/61	0/1/1/2
36	CLA	cE	511	-	1/1/15/20	15/37/115/115	-
36	CLA	CE	503	-	1/1/15/20	15/37/115/115	-
36	CLA	HE	101	43	1/1/15/20	11/37/115/115	-
33	CYC	dH	201	-	-	12/25/74/74	0/4/4/4
36	CLA	BD	611	7	1/1/15/20	17/37/115/115	-
36	CLA	BE	604	7	1/1/15/20	16/37/115/115	-
36	CLA	dE	406	9	1/1/15/20	13/37/115/115	-
33	CYC	a4	201	4,5	-	8/25/74/74	0/4/4/4
36	CLA	c1	511	-	1/1/15/20	15/37/115/115	-
42	LHG	DD	409	-	-	13/53/53/53	-
33	CYC	e3	201	32	-	6/25/74/74	0/4/4/4
47	HEM	vE	201	24	-	5/12/54/54	-
33	CYC	j7	201	-	-	12/25/74/74	0/4/4/4
33	CYC	cK	201	4	-	4/25/74/74	0/4/4/4
36	CLA	AD	405	-	1/1/15/20	12/37/115/115	-
36	CLA	aE	404	-	1/1/11/20	5/15/93/115	-
37	PL9	AD	406	-	-	14/53/73/73	0/1/1/1
37	PL9	dD	408	9	-	8/53/73/73	0/1/1/1
33	CYC	i8	201	-	-	12/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	CYC	cI	202	32	-	12/25/74/74	0/4/4/4
36	CLA	bD	610	-	1/1/15/20	15/37/115/115	-
33	CYC	SB	201	4,3	-	11/25/74/74	0/4/4/4
42	LHG	dE	410	-	-	17/53/53/53	-
36	CLA	xE	101	25	1/1/15/20	20/37/115/115	-
45	PHO	dE	402	9	-	13/28/94/103	0/5/6/6
33	CYC	c8	202	32	-	12/25/74/74	0/4/4/4
43	BCR	CE	520	-	-	2/29/63/63	0/2/2/2
39	LMG	aE	409	-	-	12/31/51/70	0/1/1/1
39	LMG	j1	102	39,14	-	13/22/42/70	0/1/1/1
36	CLA	cE	508	8	1/1/15/20	9/37/115/115	-
33	CYC	B9	301	32	-	6/25/74/74	0/4/4/4
38	SQD	A1	407	-	-	19/41/61/69	0/1/1/1
33	CYC	eC	201	32	-	6/25/74/74	0/4/4/4
33	CYC	P4	201	4	-	10/25/74/74	0/4/4/4
33	CYC	mI	201	-	-	12/25/74/74	0/4/4/4
44	DGD	c1	518	-	-	12/51/91/95	0/2/2/2
44	DGD	cE	518	-	-	13/51/91/95	0/2/2/2
33	CYC	LK	201	4,3	-	6/25/74/74	0/4/4/4
36	CLA	dD	405	-	1/1/15/20	11/37/115/115	-
45	PHO	A1	412	6	-	21/37/103/103	0/5/6/6
40	LMT	DE	413	-	-	6/13/33/61	0/1/1/2
33	CYC	jC	202	-	-	12/25/74/74	0/4/4/4
33	CYC	u4	201	3,4	-	10/25/74/74	0/4/4/4
33	CYC	c7	202	32	-	12/25/74/74	0/4/4/4
33	CYC	e9	202	-	-	12/25/74/74	0/4/4/4
36	CLA	bD	615	7	-	12/37/115/115	-
40	LMT	BE	619	-	-	6/15/35/61	0/1/1/2
36	CLA	b1	603	-	1/1/11/20	7/13/91/115	-
36	CLA	BD	610	-	1/1/15/20	18/37/115/115	-
33	CYC	hF	201	4	-	6/25/74/74	0/4/4/4
47	HEM	fE	101	-	-	8/12/54/54	-
33	CYC	dF	201	3	-	6/25/74/74	0/4/4/4
43	BCR	B1	615	36,7	-	7/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
40	LMT	AE	409	-	-	7/15/35/61	0/1/1/2
40	LMT	dD	413	-	-	8/13/33/61	0/1/1/2
43	BCR	z1	101	27	-	12/29/63/63	0/2/2/2
47	HEM	V1	201	24	-	5/12/54/54	-
36	CLA	b1	609	7	1/1/15/20	14/37/115/115	-
39	LMG	AD	408	-	-	9/31/51/70	0/1/1/1
38	SQD	DD	414	9	-	10/29/49/69	0/1/1/1
33	CYC	zB	201	2,4	-	7/25/74/74	0/4/4/4
36	CLA	C1	507	-	1/1/13/20	14/25/103/115	-
33	CYC	f7	201	31	-	12/25/74/74	0/4/4/4
33	CYC	wB	201	3	-	10/25/74/74	0/4/4/4
33	CYC	k2	201	-	-	6/25/74/74	0/4/4/4
33	CYC	eJ	202	-	-	12/25/74/74	0/4/4/4
39	LMG	dD	411	9	-	12/46/66/70	0/1/1/1
40	LMT	B1	620	-	-	8/15/35/61	0/1/1/2
43	BCR	kD	102	-	-	2/29/63/63	0/2/2/2
47	HEM	ED	101	-	-	8/12/54/54	-
36	CLA	CE	506	8	1/1/15/20	17/37/115/115	-
33	CYC	e8	201	32	-	6/25/74/74	0/4/4/4
36	CLA	b1	607	-	-	11/37/115/115	-
33	CYC	rB	201	2,4	-	8/25/74/74	0/4/4/4
33	CYC	Q4	201	4,3	-	6/25/74/74	0/4/4/4
33	CYC	2G	101	4,5	-	8/25/74/74	0/4/4/4
36	CLA	AD	404	-	1/1/11/20	6/15/93/115	-
36	CLA	HE	102	12	1/1/14/20	10/31/109/115	-
33	CYC	c3	201	-	-	6/25/74/74	0/4/4/4
36	CLA	cE	513	-	1/1/12/20	7/19/97/115	-
40	LMT	a1	401	-	-	8/21/61/61	0/2/2/2
40	LMT	dD	412	-	-	10/17/37/61	0/1/1/2
33	CYC	HG	201	4,2	-	7/25/74/74	0/4/4/4
33	CYC	d3	201	-	-	12/25/74/74	0/4/4/4
33	CYC	3F	101	4,5	-	7/25/74/74	0/4/4/4
33	CYC	7L	201	4,5	-	12/25/74/74	0/4/4/4
33	CYC	m5	201	-	-	12/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	LMG	mD	101	-	-	9/31/51/70	0/1/1/1
47	HEM	VD	201	24	-	5/12/54/54	-
36	CLA	CD	508	43,8	1/1/15/20	13/37/115/115	-
40	LMT	D1	403	-	-	8/15/35/61	0/1/1/2
36	CLA	bD	613	-	1/1/15/20	15/37/115/115	-
43	BCR	BD	615	36,7	-	7/29/63/63	0/2/2/2
33	CYC	c9	202	32	-	12/25/74/74	0/4/4/4
43	BCR	dD	407	-	-	7/29/63/63	0/2/2/2
33	CYC	B2	301	32	-	6/25/74/74	0/4/4/4
36	CLA	b1	608	-	1/1/14/20	10/31/109/115	-
39	LMG	C1	502	-	-	13/46/66/70	0/1/1/1
33	CYC	XK	201	3	-	12/25/74/74	0/4/4/4
39	LMG	CE	502	-	-	13/46/66/70	0/1/1/1
33	CYC	hK	201	4	-	6/25/74/74	0/4/4/4
39	LMG	d1	411	9	-	12/46/66/70	0/1/1/1
33	CYC	C4	1001	4,2	-	14/25/74/74	0/4/4/4
36	CLA	B1	610	-	1/1/15/20	18/37/115/115	-
36	CLA	c1	504	-	1/1/15/20	6/37/115/115	-
36	CLA	bD	611	-	1/1/15/20	18/37/115/115	-
33	CYC	lJ	201	-	-	12/25/74/74	0/4/4/4
33	CYC	CB	1002	2,4	-	9/25/74/74	0/4/4/4
33	CYC	TL	201	3	-	9/25/74/74	0/4/4/4
33	CYC	NF	101	4,5	-	8/25/74/74	0/4/4/4
33	CYC	mC	201	-	-	12/25/74/74	0/4/4/4
36	CLA	iE	101	-	1/1/13/20	10/25/103/115	-
33	CYC	lC	201	-	-	12/25/74/74	0/4/4/4
39	LMG	M1	101	-	-	9/31/51/70	0/1/1/1
38	SQD	B1	622	-	-	14/33/53/69	0/1/1/1
36	CLA	dD	403	-	1/1/15/20	14/37/115/115	-
43	BCR	C1	516	36,8	-	10/29/63/63	0/2/2/2
47	HEM	EE	101	-	-	8/12/54/54	-
43	BCR	iE	102	-	-	6/29/63/63	0/2/2/2
47	HEM	v1	201	24	-	5/12/54/54	-
36	CLA	C1	509	8	1/1/15/20	13/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
36	CLA	b1	612	7	1/1/15/20	17/37/115/115	-
40	LMT	B1	623	7	-	8/15/35/61	0/1/1/2
33	CYC	k9	201	-	-	6/25/74/74	0/4/4/4
36	CLA	CE	512	-	1/1/15/20	15/37/115/115	-
33	CYC	3K	102	4,5	-	5/25/74/74	0/4/4/4
33	CYC	e5	201	32	-	6/25/74/74	0/4/4/4
33	CYC	eF	201	4	-	8/25/74/74	0/4/4/4
43	BCR	bD	617	7	-	2/29/63/63	0/2/2/2
42	LHG	d1	409	-	-	14/53/53/53	-
33	CYC	bH	201	-	-	12/25/74/74	0/4/4/4
40	LMT	dE	413	-	-	8/13/33/61	0/1/1/2
33	CYC	B6	301	32	-	6/25/74/74	0/4/4/4
33	CYC	kI	201	-	-	6/25/74/74	0/4/4/4
33	CYC	b8	201	-	-	12/25/74/74	0/4/4/4
33	CYC	k7	201	-	-	6/25/74/74	0/4/4/4
33	CYC	f9	201	31	-	12/25/74/74	0/4/4/4
33	CYC	JF	201	3	-	6/25/74/74	0/4/4/4
33	CYC	R4	201	4,5	-	9/25/74/74	0/4/4/4
33	CYC	7G	201	4,5	-	12/25/74/74	0/4/4/4
36	CLA	aD	406	6	1/1/14/20	16/31/109/115	-
36	CLA	aD	404	-	1/1/11/20	5/15/93/115	-
43	BCR	B1	616	7	-	2/29/63/63	0/2/2/2
33	CYC	e6	202	-	-	12/25/74/74	0/4/4/4
33	CYC	dI	201	-	-	12/25/74/74	0/4/4/4
33	CYC	jI	202	-	-	12/25/74/74	0/4/4/4
33	CYC	VG	201	30	-	13/25/74/74	0/4/4/4
42	LHG	D1	409	-	-	17/53/53/53	-
43	BCR	ZE	102	-	-	2/29/63/63	0/2/2/2
36	CLA	dE	405	-	1/1/15/20	11/37/115/115	-
36	CLA	D1	404	-	1/1/15/20	11/37/115/115	-
36	CLA	CD	511	8	1/1/15/20	19/37/115/115	-
36	CLA	bE	606	7	1/1/15/20	16/37/115/115	-
33	CYC	bI	201	-	-	12/25/74/74	0/4/4/4
36	CLA	c1	514	-	-	15/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	CYC	YK	201	4	-	6/25/74/74	0/4/4/4
33	CYC	h6	201	-	-	12/25/74/74	0/4/4/4
33	CYC	h7	201	-	-	12/25/74/74	0/4/4/4
44	DGD	cE	517	-	-	17/51/91/95	0/2/2/2
36	CLA	cD	511	-	1/1/15/20	15/37/115/115	-
33	CYC	cA	201	-	-	6/25/74/74	0/4/4/4
39	LMG	T1	101	-	-	7/31/51/70	0/1/1/1
36	CLA	BE	611	7	1/1/15/20	17/37/115/115	-
40	LMT	dE	412	-	-	10/17/37/61	0/1/1/2
36	CLA	CD	512	-	1/1/15/20	15/37/115/115	-
38	SQD	cE	502	8	-	16/49/69/69	0/1/1/1
33	CYC	Z4	201	3	-	4/25/74/74	0/4/4/4
33	CYC	kK	201	3	-	8/25/74/74	0/4/4/4
43	BCR	zD	101	27	-	12/29/63/63	0/2/2/2
40	LMT	bD	602	-	-	6/15/35/61	0/1/1/2
33	CYC	mF	201	30	-	13/25/74/74	0/4/4/4
33	CYC	jH	202	-	-	12/25/74/74	0/4/4/4
36	CLA	C1	510	8	-	8/37/115/115	-
33	CYC	ZF	201	3	-	10/25/74/74	0/4/4/4
39	LMG	BD	618	7	-	7/46/66/70	0/1/1/1
42	LHG	D1	408	-	-	13/53/53/53	-
42	LHG	dD	410	-	-	17/53/53/53	-
33	CYC	NG	201	3	-	5/25/74/74	0/4/4/4
36	CLA	CE	511	8	1/1/15/20	19/37/115/115	-
43	BCR	dE	407	-	-	7/29/63/63	0/2/2/2
33	CYC	2L	101	4,5	-	8/25/74/74	0/4/4/4
33	CYC	l9	201	-	-	12/25/74/74	0/4/4/4
37	PL9	aE	408	-	-	15/53/73/73	0/1/1/1
36	CLA	c1	513	-	1/1/12/20	7/19/97/115	-
36	CLA	cD	508	8	1/1/15/20	9/37/115/115	-
33	CYC	LL	201	2,4	-	10/25/74/74	0/4/4/4
33	CYC	sB	201	3	-	9/25/74/74	0/4/4/4
33	CYC	c2	201	-	-	6/25/74/74	0/4/4/4
43	BCR	zE	101	27	-	12/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
40	LMT	d1	412	-	-	10/17/37/61	0/1/1/2

All (6426) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	aD	404	CLA	O2A-C1	81.33	3.36	1.45
36	a1	405	CLA	O2A-C1	81.33	3.36	1.45
36	aE	404	CLA	O2A-C1	81.32	3.36	1.45
36	AE	404	CLA	O2A-C1	81.21	3.36	1.45
36	AD	404	CLA	O2A-C1	81.20	3.36	1.45
36	A1	404	CLA	O2A-C1	81.18	3.36	1.45
33	3K	102	CYC	CHA-C1A	18.38	1.50	1.35
33	3F	102	CYC	CHA-C1A	18.33	1.50	1.35
33	JF	201	CYC	CHA-C1A	18.31	1.50	1.35
33	JK	201	CYC	CHA-C1A	18.30	1.50	1.35
33	7L	201	CYC	CHA-C1A	18.16	1.50	1.35
33	7G	201	CYC	CHA-C1A	18.15	1.50	1.35
33	aB	201	CYC	CHA-C1A	17.88	1.50	1.35
33	a4	201	CYC	CHA-C1A	17.81	1.50	1.35
36	HD	101	CLA	C4B-NB	16.89	1.50	1.35
36	H1	101	CLA	C4B-NB	16.89	1.50	1.35
36	HE	101	CLA	C4B-NB	16.88	1.50	1.35
36	hD	101	CLA	C4B-NB	16.84	1.50	1.35
36	h1	101	CLA	C4B-NB	16.81	1.50	1.35
33	uB	201	CYC	CHA-C1A	16.77	1.49	1.35
33	u4	201	CYC	CHA-C1A	16.75	1.49	1.35
36	hE	101	CLA	C4B-NB	16.75	1.50	1.35
33	LK	201	CYC	CHA-C1A	16.71	1.49	1.35
33	LF	201	CYC	CHA-C1A	16.64	1.49	1.35
33	WB	201	CYC	CHA-C1A	16.14	1.48	1.35
33	W4	201	CYC	CHA-C1A	16.13	1.48	1.35
33	q4	201	CYC	CHA-C1A	16.11	1.48	1.35
33	qB	201	CYC	CHA-C1A	16.06	1.48	1.35
33	3K	101	CYC	CHA-C1A	16.00	1.48	1.35
33	3F	101	CYC	CHA-C1A	15.96	1.48	1.35
33	YK	201	CYC	CHA-C1A	15.96	1.48	1.35
33	OB	201	CYC	CHA-C1A	15.95	1.48	1.35
33	YF	201	CYC	CHA-C1A	15.93	1.48	1.35
33	HG	201	CYC	CHA-C1A	15.92	1.48	1.35
33	HL	201	CYC	CHA-C1A	15.91	1.48	1.35
33	hK	201	CYC	CHA-C1A	15.90	1.48	1.35
33	hF	201	CYC	CHA-C1A	15.87	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	O4	201	CYC	CHA-C1A	15.86	1.48	1.35
33	dF	201	CYC	CHA-C1A	15.80	1.48	1.35
33	dK	201	CYC	CHA-C1A	15.77	1.48	1.35
33	XK	201	CYC	CHA-C1A	15.71	1.48	1.35
33	oB	201	CYC	CHA-C1A	15.69	1.48	1.35
33	XF	201	CYC	CHA-C1A	15.68	1.48	1.35
33	gK	201	CYC	CHA-C1A	15.67	1.48	1.35
33	gF	201	CYC	CHA-C1A	15.65	1.48	1.35
33	SB	201	CYC	CHA-C1A	15.62	1.48	1.35
33	o4	201	CYC	CHA-C1A	15.61	1.48	1.35
33	TL	201	CYC	CHA-C1A	15.61	1.48	1.35
33	TG	201	CYC	CHA-C1A	15.60	1.48	1.35
33	S4	201	CYC	CHA-C1A	15.59	1.48	1.35
33	mK	201	CYC	CHA-C1A	15.56	1.48	1.35
33	QL	201	CYC	CHA-C1A	15.54	1.48	1.35
33	QG	201	CYC	CHA-C1A	15.52	1.48	1.35
33	VG	201	CYC	CHA-C1A	15.51	1.48	1.35
33	mF	201	CYC	CHA-C1A	15.51	1.48	1.35
33	KF	201	CYC	CHA-C1A	15.50	1.48	1.35
33	GL	201	CYC	CHA-C1A	15.49	1.48	1.35
33	VL	201	CYC	CHA-C1A	15.48	1.48	1.35
33	Q4	201	CYC	CHA-C1A	15.47	1.48	1.35
33	nK	201	CYC	CHA-C1A	15.45	1.48	1.35
33	QB	201	CYC	CHA-C1A	15.45	1.48	1.35
33	kF	201	CYC	CHA-C1A	15.44	1.48	1.35
33	nF	201	CYC	CHA-C1A	15.44	1.48	1.35
33	GG	201	CYC	CHA-C1A	15.43	1.48	1.35
33	kK	201	CYC	CHA-C1A	15.41	1.48	1.35
33	KK	201	CYC	CHA-C1A	15.41	1.48	1.35
33	TB	201	CYC	CHA-C1A	15.38	1.48	1.35
33	CB	1001	CYC	CHA-C1A	15.33	1.47	1.35
33	T4	201	CYC	CHA-C1A	15.32	1.47	1.35
33	Z4	201	CYC	CHA-C1A	15.31	1.47	1.35
33	C4	1001	CYC	CHA-C1A	15.30	1.47	1.35
33	XB	201	CYC	CHA-C1A	15.27	1.47	1.35
33	X4	201	CYC	CHA-C1A	15.23	1.47	1.35
33	jF	201	CYC	CHA-C1A	15.23	1.47	1.35
33	ZB	201	CYC	CHA-C1A	15.21	1.47	1.35
33	rB	201	CYC	CHA-C1A	15.21	1.47	1.35
33	IG	201	CYC	CHA-C1A	15.20	1.47	1.35
33	jK	201	CYC	CHA-C1A	15.20	1.47	1.35
33	r4	201	CYC	CHA-C1A	15.17	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	IL	201	CYC	CHA-C1A	15.15	1.47	1.35
33	B4	1001	CYC	CHA-C1A	15.15	1.47	1.35
33	BB	1001	CYC	CHA-C1A	15.15	1.47	1.35
33	MG	201	CYC	CHA-C1A	15.09	1.47	1.35
33	ML	201	CYC	CHA-C1A	15.08	1.47	1.35
33	4G	201	CYC	CHA-C1A	15.06	1.47	1.35
33	4L	201	CYC	CHA-C1A	15.05	1.47	1.35
33	ZK	201	CYC	CHA-C1A	15.05	1.47	1.35
33	ZF	201	CYC	CHA-C1A	15.04	1.47	1.35
33	WL	201	CYC	CHA-C1A	15.03	1.47	1.35
33	WG	201	CYC	CHA-C1A	15.02	1.47	1.35
33	w4	201	CYC	CHA-C1A	14.97	1.47	1.35
33	PB	201	CYC	CHA-C1A	14.96	1.47	1.35
33	JG	201	CYC	CHA-C1A	14.94	1.47	1.35
33	wB	201	CYC	CHA-C1A	14.94	1.47	1.35
33	NK	101	CYC	CHA-C1A	14.93	1.47	1.35
33	P4	201	CYC	CHA-C1A	14.92	1.47	1.35
33	NF	101	CYC	CHA-C1A	14.88	1.47	1.35
33	JL	201	CYC	CHA-C1A	14.87	1.47	1.35
33	z4	201	CYC	CHA-C1A	14.81	1.47	1.35
33	h2	201	CYC	CHA-C1A	14.80	1.47	1.35
33	zB	201	CYC	CHA-C1A	14.80	1.47	1.35
33	hJ	201	CYC	CHA-C1A	14.79	1.47	1.35
33	l8	201	CYC	CHA-C1A	14.79	1.47	1.35
33	l3	201	CYC	CHA-C1A	14.76	1.47	1.35
33	h3	201	CYC	CHA-C1A	14.75	1.47	1.35
33	lJ	201	CYC	CHA-C1A	14.75	1.47	1.35
33	h8	201	CYC	CHA-C1A	14.74	1.47	1.35
33	dJ	201	CYC	CHA-C1A	14.73	1.47	1.35
33	h6	201	CYC	CHA-C1A	14.73	1.47	1.35
33	hA	201	CYC	CHA-C1A	14.73	1.47	1.35
33	v4	201	CYC	CHA-C1A	14.72	1.47	1.35
33	l7	201	CYC	CHA-C1A	14.72	1.47	1.35
33	l5	201	CYC	CHA-C1A	14.72	1.47	1.35
33	vB	201	CYC	CHA-C1A	14.72	1.47	1.35
33	hH	201	CYC	CHA-C1A	14.71	1.47	1.35
33	lH	201	CYC	CHA-C1A	14.71	1.47	1.35
33	CB	1002	CYC	CHA-C1A	14.71	1.47	1.35
33	h9	201	CYC	CHA-C1A	14.71	1.47	1.35
33	dA	201	CYC	CHA-C1A	14.71	1.47	1.35
33	d7	201	CYC	CHA-C1A	14.71	1.47	1.35
33	f9	201	CYC	CHA-C1A	14.71	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	h5	201	CYC	CHA-C1A	14.70	1.47	1.35
33	lA	201	CYC	CHA-C1A	14.70	1.47	1.35
33	h7	201	CYC	CHA-C1A	14.70	1.47	1.35
33	f7	201	CYC	CHA-C1A	14.69	1.47	1.35
33	hI	201	CYC	CHA-C1A	14.69	1.47	1.35
33	II	201	CYC	CHA-C1A	14.68	1.47	1.35
33	d2	201	CYC	CHA-C1A	14.68	1.47	1.35
33	l2	201	CYC	CHA-C1A	14.68	1.47	1.35
33	lC	201	CYC	CHA-C1A	14.68	1.47	1.35
33	fC	201	CYC	CHA-C1A	14.68	1.47	1.35
33	f6	201	CYC	CHA-C1A	14.67	1.47	1.35
33	NG	201	CYC	CHA-C1A	14.67	1.47	1.35
33	NL	201	CYC	CHA-C1A	14.67	1.47	1.35
33	d9	201	CYC	CHA-C1A	14.67	1.47	1.35
33	d3	201	CYC	CHA-C1A	14.66	1.47	1.35
33	d8	201	CYC	CHA-C1A	14.66	1.47	1.35
33	l9	201	CYC	CHA-C1A	14.66	1.47	1.35
33	dH	201	CYC	CHA-C1A	14.65	1.47	1.35
33	hC	201	CYC	CHA-C1A	14.65	1.47	1.35
33	fH	201	CYC	CHA-C1A	14.65	1.47	1.35
33	dI	201	CYC	CHA-C1A	14.65	1.47	1.35
33	l6	201	CYC	CHA-C1A	14.64	1.47	1.35
33	fI	201	CYC	CHA-C1A	14.64	1.47	1.35
33	fJ	201	CYC	CHA-C1A	14.63	1.47	1.35
33	jC	201	CYC	CHA-C1A	14.63	1.47	1.35
33	f3	201	CYC	CHA-C1A	14.63	1.47	1.35
33	f8	201	CYC	CHA-C1A	14.62	1.47	1.35
33	B4	1002	CYC	CHA-C1A	14.62	1.47	1.35
33	C4	1002	CYC	CHA-C1A	14.62	1.47	1.35
33	f2	201	CYC	CHA-C1A	14.62	1.47	1.35
33	lG	201	CYC	CHA-C1A	14.60	1.47	1.35
33	b3	201	CYC	CHA-C1A	14.60	1.47	1.35
33	j3	201	CYC	CHA-C1A	14.60	1.47	1.35
33	f5	201	CYC	CHA-C1A	14.59	1.47	1.35
33	d6	201	CYC	CHA-C1A	14.59	1.47	1.35
33	j2	201	CYC	CHA-C1A	14.59	1.47	1.35
33	j5	201	CYC	CHA-C1A	14.58	1.47	1.35
33	PG	201	CYC	CHA-C1A	14.58	1.47	1.35
33	j7	201	CYC	CHA-C1A	14.58	1.47	1.35
33	CB	1003	CYC	CHA-C1A	14.58	1.47	1.35
33	d5	201	CYC	CHA-C1A	14.57	1.47	1.35
33	PL	201	CYC	CHA-C1A	14.56	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	1L	201	CYC	CHA-C1A	14.56	1.47	1.35
33	fA	201	CYC	CHA-C1A	14.56	1.47	1.35
33	b7	201	CYC	CHA-C1A	14.56	1.47	1.35
33	dC	201	CYC	CHA-C1A	14.56	1.47	1.35
33	sB	201	CYC	CHA-C1A	14.55	1.47	1.35
33	BB	1002	CYC	CHA-C1A	14.54	1.47	1.35
33	s4	201	CYC	CHA-C1A	14.54	1.47	1.35
33	jH	201	CYC	CHA-C1A	14.54	1.47	1.35
33	b5	201	CYC	CHA-C1A	14.53	1.47	1.35
33	bJ	201	CYC	CHA-C1A	14.53	1.47	1.35
33	b8	201	CYC	CHA-C1A	14.53	1.47	1.35
33	jA	201	CYC	CHA-C1A	14.53	1.47	1.35
33	bH	201	CYC	CHA-C1A	14.53	1.47	1.35
33	j6	201	CYC	CHA-C1A	14.52	1.47	1.35
33	C4	1003	CYC	CHA-C1A	14.51	1.47	1.35
33	jJ	201	CYC	CHA-C1A	14.51	1.47	1.35
33	b6	201	CYC	CHA-C1A	14.50	1.47	1.35
33	j8	201	CYC	CHA-C1A	14.50	1.47	1.35
33	j9	201	CYC	CHA-C1A	14.50	1.47	1.35
33	b9	201	CYC	CHA-C1A	14.50	1.47	1.35
33	jI	201	CYC	CHA-C1A	14.50	1.47	1.35
33	bI	201	CYC	CHA-C1A	14.49	1.47	1.35
33	BB	1004	CYC	CHA-C1A	14.49	1.47	1.35
33	b2	201	CYC	CHA-C1A	14.49	1.47	1.35
33	bA	201	CYC	CHA-C1A	14.48	1.47	1.35
33	B4	1004	CYC	CHA-C1A	14.46	1.47	1.35
33	V4	201	CYC	CHA-C1A	14.45	1.47	1.35
33	fK	201	CYC	CHA-C1A	14.43	1.47	1.35
33	RL	201	CYC	CHA-C1A	14.42	1.47	1.35
33	bC	201	CYC	CHA-C1A	14.42	1.47	1.35
33	fF	201	CYC	CHA-C1A	14.40	1.47	1.35
33	VB	201	CYC	CHA-C1A	14.40	1.47	1.35
33	RG	201	CYC	CHA-C1A	14.39	1.47	1.35
33	eF	201	CYC	CHA-C1A	14.37	1.47	1.35
33	yB	201	CYC	CHA-C1A	14.36	1.47	1.35
33	e8	201	CYC	CHA-C1A	14.33	1.47	1.35
33	eK	201	CYC	CHA-C1A	14.32	1.47	1.35
33	6L	201	CYC	CHA-C1A	14.31	1.47	1.35
33	y4	201	CYC	CHA-C1A	14.31	1.47	1.35
33	e5	201	CYC	CHA-C1A	14.31	1.47	1.35
33	6G	201	CYC	CHA-C1A	14.30	1.47	1.35
33	i7	202	CYC	CHA-C1A	14.29	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	i8	202	CYC	CHA-C1A	14.29	1.47	1.35
33	e2	201	CYC	CHA-C1A	14.28	1.47	1.35
33	eJ	201	CYC	CHA-C1A	14.27	1.47	1.35
33	eI	201	CYC	CHA-C1A	14.27	1.47	1.35
33	e7	201	CYC	CHA-C1A	14.27	1.47	1.35
33	e3	201	CYC	CHA-C1A	14.26	1.47	1.35
33	eH	201	CYC	CHA-C1A	14.25	1.47	1.35
33	i6	202	CYC	CHA-C1A	14.24	1.47	1.35
33	iI	202	CYC	CHA-C1A	14.23	1.47	1.35
33	i3	202	CYC	CHA-C1A	14.22	1.47	1.35
33	e6	201	CYC	CHA-C1A	14.22	1.47	1.35
33	eC	201	CYC	CHA-C1A	14.22	1.47	1.35
33	iH	202	CYC	CHA-C1A	14.21	1.47	1.35
33	e9	201	CYC	CHA-C1A	14.20	1.47	1.35
33	i2	202	CYC	CHA-C1A	14.19	1.47	1.35
33	iC	202	CYC	CHA-C1A	14.18	1.47	1.35
33	iA	202	CYC	CHA-C1A	14.17	1.47	1.35
33	g8	202	CYC	CHA-C1A	14.15	1.46	1.35
33	eA	201	CYC	CHA-C1A	14.15	1.46	1.35
33	i5	202	CYC	CHA-C1A	14.14	1.46	1.35
33	iJ	202	CYC	CHA-C1A	14.13	1.46	1.35
33	i9	202	CYC	CHA-C1A	14.12	1.46	1.35
33	BA	301	CYC	CHA-C1A	14.12	1.46	1.35
33	B9	301	CYC	CHA-C1A	14.12	1.46	1.35
33	2L	101	CYC	CHA-C1A	14.11	1.46	1.35
33	B6	301	CYC	CHA-C1A	14.11	1.46	1.35
33	BI	301	CYC	CHA-C1A	14.10	1.46	1.35
33	R4	201	CYC	CHA-C1A	14.10	1.46	1.35
33	RB	201	CYC	CHA-C1A	14.08	1.46	1.35
33	k8	201	CYC	CHA-C1A	14.08	1.46	1.35
33	B3	301	CYC	CHA-C1A	14.07	1.46	1.35
33	gH	202	CYC	CHA-C1A	14.06	1.46	1.35
33	kJ	201	CYC	CHA-C1A	14.06	1.46	1.35
33	g5	202	CYC	CHA-C1A	14.05	1.46	1.35
33	c7	201	CYC	CHA-C1A	14.04	1.46	1.35
33	2G	101	CYC	CHA-C1A	14.03	1.46	1.35
33	B7	301	CYC	CHA-C1A	14.03	1.46	1.35
33	k9	201	CYC	CHA-C1A	14.03	1.46	1.35
33	cI	201	CYC	CHA-C1A	14.03	1.46	1.35
33	k2	201	CYC	CHA-C1A	14.03	1.46	1.35
33	k3	201	CYC	CHA-C1A	14.02	1.46	1.35
33	c9	201	CYC	CHA-C1A	14.02	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	k5	201	CYC	CHA-C1A	14.02	1.46	1.35
33	B2	301	CYC	CHA-C1A	14.02	1.46	1.35
33	k6	201	CYC	CHA-C1A	14.01	1.46	1.35
33	kH	201	CYC	CHA-C1A	14.00	1.46	1.35
33	kI	201	CYC	CHA-C1A	14.00	1.46	1.35
33	gJ	202	CYC	CHA-C1A	14.00	1.46	1.35
33	5G	201	CYC	CHA-C1A	14.00	1.46	1.35
33	BC	301	CYC	CHA-C1A	14.00	1.46	1.35
33	c2	201	CYC	CHA-C1A	14.00	1.46	1.35
33	cC	201	CYC	CHA-C1A	13.99	1.46	1.35
33	5L	201	CYC	CHA-C1A	13.98	1.46	1.35
33	cA	201	CYC	CHA-C1A	13.97	1.46	1.35
33	bF	201	CYC	CHA-C1A	13.97	1.46	1.35
33	k7	201	CYC	CHA-C1A	13.96	1.46	1.35
33	c8	201	CYC	CHA-C1A	13.96	1.46	1.35
33	cH	201	CYC	CHA-C1A	13.96	1.46	1.35
33	c5	201	CYC	CHA-C1A	13.95	1.46	1.35
33	kA	201	CYC	CHA-C1A	13.94	1.46	1.35
33	bK	201	CYC	CHA-C1A	13.94	1.46	1.35
33	9K	201	CYC	CHA-C1A	13.93	1.46	1.35
33	cJ	201	CYC	CHA-C1A	13.93	1.46	1.35
33	kC	201	CYC	CHA-C1A	13.91	1.46	1.35
33	9F	201	CYC	CHA-C1A	13.90	1.46	1.35
33	c6	201	CYC	CHA-C1A	13.89	1.46	1.35
33	c3	201	CYC	CHA-C1A	13.86	1.46	1.35
33	aK	201	CYC	CHA-C1A	13.81	1.46	1.35
33	aF	201	CYC	CHA-C1A	13.76	1.46	1.35
33	bB	101	CYC	CHA-C1A	13.75	1.46	1.35
45	dE	402	PHO	C3A-C2A	-13.73	1.42	1.54
33	b4	101	CYC	CHA-C1A	13.73	1.46	1.35
33	cF	201	CYC	CHA-C1A	13.72	1.46	1.35
33	IF	201	CYC	CHA-C1A	13.70	1.46	1.35
33	cK	201	CYC	CHA-C1A	13.70	1.46	1.35
33	IK	201	CYC	CHA-C1A	13.66	1.46	1.35
33	OL	201	CYC	CHA-C1A	13.29	1.46	1.35
33	AG	201	CYC	CHA-C1A	13.28	1.46	1.35
33	AL	201	CYC	CHA-C1A	13.27	1.46	1.35
33	OG	201	CYC	CHA-C1A	13.26	1.46	1.35
33	B4	1003	CYC	CHA-C1A	13.18	1.46	1.35
33	BB	1003	CYC	CHA-C1A	13.13	1.46	1.35
45	a1	413	PHO	C8-C7	12.50	2.52	1.49
45	dD	402	PHO	C8-C7	12.12	2.49	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	LL	201	CYC	CHA-C1A	10.54	1.43	1.35
33	LG	201	CYC	CHA-C1A	10.54	1.43	1.35
45	DD	403	PHO	C13-C12	10.20	2.33	1.49
33	CB	1001	CYC	C3D-C2D	8.46	1.62	1.37
33	C4	1001	CYC	C3D-C2D	8.46	1.62	1.37
45	DE	401	PHO	C14-C13	-7.96	1.27	1.52
45	A1	412	PHO	C9-C8	-7.42	1.29	1.52
36	B1	614	CLA	C4B-NB	7.16	1.41	1.35
36	BD	614	CLA	C4B-NB	7.14	1.41	1.35
36	BE	614	CLA	C4B-NB	7.14	1.41	1.35
36	h1	102	CLA	C4B-NB	7.14	1.41	1.35
36	hD	102	CLA	C4B-NB	7.13	1.41	1.35
36	HE	102	CLA	C4B-NB	7.08	1.41	1.35
36	hE	102	CLA	C4B-NB	7.07	1.41	1.35
36	HD	102	CLA	C4B-NB	7.06	1.41	1.35
36	H1	102	CLA	C4B-NB	7.02	1.41	1.35
36	c1	502	CLA	C4B-NB	6.99	1.41	1.35
36	b1	615	CLA	C4B-NB	6.96	1.41	1.35
36	cE	503	CLA	C4B-NB	6.95	1.41	1.35
36	cD	503	CLA	C4B-NB	6.95	1.41	1.35
36	c1	511	CLA	C4B-NB	6.94	1.41	1.35
36	C1	503	CLA	C4B-NB	6.93	1.41	1.35
36	bE	615	CLA	C4B-NB	6.92	1.41	1.35
36	CE	503	CLA	C4B-NB	6.92	1.41	1.35
36	bD	615	CLA	C4B-NB	6.92	1.41	1.35
36	CE	513	CLA	C4B-NB	6.89	1.41	1.35
36	C1	515	CLA	C4B-NB	6.89	1.41	1.35
36	cE	512	CLA	C4B-NB	6.87	1.41	1.35
36	CD	503	CLA	C4B-NB	6.86	1.41	1.35
36	CD	515	CLA	C4B-NB	6.86	1.41	1.35
36	CD	513	CLA	C4B-NB	6.86	1.41	1.35
36	C1	513	CLA	C4B-NB	6.86	1.41	1.35
36	C1	507	CLA	C4B-NB	6.85	1.41	1.35
36	CE	515	CLA	C4B-NB	6.84	1.41	1.35
36	cE	511	CLA	C4B-NB	6.83	1.41	1.35
36	c1	512	CLA	C4B-NB	6.83	1.41	1.35
36	CD	507	CLA	C4B-NB	6.83	1.41	1.35
36	cD	511	CLA	C4B-NB	6.83	1.41	1.35
45	A1	412	PHO	C3A-C2A	-6.82	1.48	1.54
36	CE	507	CLA	C4B-NB	6.82	1.41	1.35
33	3K	102	CYC	C1A-C2A	6.80	1.56	1.45
36	CE	508	CLA	C4B-NB	6.80	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	cD	512	CLA	C4B-NB	6.79	1.41	1.35
36	CD	508	CLA	C4B-NB	6.79	1.41	1.35
33	3F	102	CYC	C1A-C2A	6.79	1.56	1.45
36	CD	505	CLA	C4B-NB	6.78	1.41	1.35
36	CE	505	CLA	C4B-NB	6.78	1.41	1.35
36	c1	506	CLA	C4B-NB	6.77	1.41	1.35
36	c1	507	CLA	C4B-NB	6.74	1.41	1.35
36	C1	505	CLA	C4B-NB	6.72	1.41	1.35
36	C1	508	CLA	C4B-NB	6.72	1.41	1.35
36	iD	101	CLA	C4B-NB	6.70	1.41	1.35
36	B1	601	CLA	C4B-NB	6.69	1.41	1.35
36	iE	101	CLA	C4B-NB	6.69	1.41	1.35
36	cD	507	CLA	C4B-NB	6.68	1.41	1.35
36	CD	512	CLA	C4B-NB	6.66	1.41	1.35
36	BE	601	CLA	C4B-NB	6.64	1.41	1.35
36	CE	512	CLA	C4B-NB	6.64	1.41	1.35
45	aD	412	PHO	C3A-C2A	-6.62	1.48	1.54
36	cD	514	CLA	C4B-NB	6.61	1.41	1.35
36	C1	512	CLA	C4B-NB	6.61	1.41	1.35
36	BD	601	CLA	C4B-NB	6.61	1.41	1.35
36	cE	513	CLA	C4B-NB	6.60	1.41	1.35
36	cE	507	CLA	C4B-NB	6.59	1.41	1.35
36	b1	609	CLA	C4B-NB	6.59	1.41	1.35
36	cE	505	CLA	C4B-NB	6.59	1.41	1.35
36	bE	614	CLA	C4B-NB	6.58	1.41	1.35
36	bD	614	CLA	C4B-NB	6.58	1.41	1.35
36	bE	603	CLA	C4B-NB	6.58	1.41	1.35
36	c1	514	CLA	C4B-NB	6.57	1.41	1.35
36	cE	514	CLA	C4B-NB	6.57	1.41	1.35
45	a1	413	PHO	C3A-C2A	-6.56	1.48	1.54
36	c1	513	CLA	C4B-NB	6.56	1.41	1.35
36	bE	609	CLA	C4B-NB	6.56	1.41	1.35
36	X1	101	CLA	C4B-NB	6.55	1.41	1.35
36	C1	510	CLA	C4B-NB	6.55	1.41	1.35
36	CD	514	CLA	C4B-NB	6.54	1.41	1.35
36	bD	609	CLA	C4B-NB	6.54	1.41	1.35
36	CE	510	CLA	C4B-NB	6.53	1.41	1.35
36	B1	606	CLA	C4B-NB	6.53	1.41	1.35
36	bD	603	CLA	C4B-NB	6.53	1.41	1.35
33	CB	1001	CYC	C2A-C3A	6.52	1.50	1.36
36	XD	101	CLA	C4B-NB	6.52	1.41	1.35
36	BE	613	CLA	C4B-NB	6.51	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	CD	510	CLA	C4B-NB	6.51	1.41	1.35
36	BD	613	CLA	C4B-NB	6.50	1.41	1.35
36	C1	514	CLA	C4B-NB	6.50	1.41	1.35
36	BD	609	CLA	C4B-NB	6.50	1.41	1.35
36	bE	608	CLA	C4B-NB	6.50	1.41	1.35
36	b1	612	CLA	C4B-NB	6.50	1.41	1.35
36	cD	513	CLA	C4B-NB	6.50	1.41	1.35
36	c1	504	CLA	C4B-NB	6.49	1.41	1.35
36	cD	505	CLA	C4B-NB	6.49	1.41	1.35
36	BE	609	CLA	C4B-NB	6.49	1.41	1.35
33	C4	1001	CYC	C2A-C3A	6.48	1.50	1.36
36	b1	603	CLA	C4B-NB	6.48	1.41	1.35
36	b1	610	CLA	C4B-NB	6.48	1.41	1.35
36	xE	101	CLA	C4B-NB	6.48	1.41	1.35
36	BD	607	CLA	C4B-NB	6.47	1.41	1.35
36	BE	607	CLA	C4B-NB	6.47	1.41	1.35
36	CE	514	CLA	C4B-NB	6.47	1.41	1.35
36	XE	101	CLA	C4B-NB	6.47	1.41	1.35
36	b1	614	CLA	C4B-NB	6.47	1.41	1.35
36	B1	607	CLA	C4B-NB	6.47	1.41	1.35
36	bD	608	CLA	C4B-NB	6.46	1.41	1.35
36	B1	613	CLA	C4B-NB	6.46	1.41	1.35
36	bE	610	CLA	C4B-NB	6.46	1.41	1.35
36	xD	101	CLA	C4B-NB	6.46	1.41	1.35
36	x1	101	CLA	C4B-NB	6.46	1.41	1.35
36	BD	606	CLA	C4B-NB	6.45	1.41	1.35
36	b1	608	CLA	C4B-NB	6.44	1.41	1.35
36	bD	612	CLA	C4B-NB	6.42	1.40	1.35
36	B1	609	CLA	C4B-NB	6.42	1.40	1.35
36	bD	610	CLA	C4B-NB	6.42	1.40	1.35
36	B1	611	CLA	C4B-NB	6.42	1.40	1.35
36	DD	406	CLA	C4B-NB	6.41	1.40	1.35
36	BE	606	CLA	C4B-NB	6.41	1.40	1.35
36	dD	405	CLA	C4B-NB	6.41	1.40	1.35
36	dE	405	CLA	C4B-NB	6.41	1.40	1.35
36	D1	405	CLA	C4B-NB	6.40	1.40	1.35
36	bE	611	CLA	C4B-NB	6.40	1.40	1.35
36	BD	610	CLA	C4B-NB	6.40	1.40	1.35
36	B1	612	CLA	C4B-NB	6.39	1.40	1.35
36	CE	504	CLA	C4B-NB	6.39	1.40	1.35
36	bE	613	CLA	C4B-NB	6.39	1.40	1.35
36	D1	404	CLA	C4B-NB	6.39	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	bD	611	CLA	C4B-NB	6.38	1.40	1.35
36	BE	612	CLA	C4B-NB	6.38	1.40	1.35
36	dE	403	CLA	C4B-NB	6.38	1.40	1.35
36	BE	611	CLA	C4B-NB	6.38	1.40	1.35
36	C1	504	CLA	C4B-NB	6.37	1.40	1.35
36	dD	406	CLA	C4B-NB	6.37	1.40	1.35
36	DE	406	CLA	C4B-NB	6.37	1.40	1.35
36	d1	405	CLA	C4B-NB	6.37	1.40	1.35
36	DD	405	CLA	C4B-NB	6.37	1.40	1.35
36	BE	610	CLA	C4B-NB	6.36	1.40	1.35
36	B1	610	CLA	C4B-NB	6.36	1.40	1.35
36	BE	605	CLA	C4B-NB	6.36	1.40	1.35
36	d1	403	CLA	C4B-NB	6.36	1.40	1.35
36	b1	613	CLA	C4B-NB	6.36	1.40	1.35
36	bD	613	CLA	C4B-NB	6.36	1.40	1.35
36	dD	403	CLA	C4B-NB	6.36	1.40	1.35
36	bE	612	CLA	C4B-NB	6.36	1.40	1.35
36	B1	603	CLA	C4B-NB	6.35	1.40	1.35
36	a1	405	CLA	C4B-NB	6.34	1.40	1.35
36	BD	612	CLA	C4B-NB	6.34	1.40	1.35
36	dE	406	CLA	C4B-NB	6.33	1.40	1.35
36	d1	406	CLA	C4B-NB	6.32	1.40	1.35
36	CD	504	CLA	C4B-NB	6.32	1.40	1.35
36	bE	605	CLA	C4B-NB	6.32	1.40	1.35
36	b1	611	CLA	C4B-NB	6.32	1.40	1.35
36	b1	606	CLA	C4B-NB	6.31	1.40	1.35
36	bD	606	CLA	C4B-NB	6.31	1.40	1.35
45	d1	402	PHO	C3A-C2A	-6.31	1.49	1.54
36	BD	603	CLA	C4B-NB	6.31	1.40	1.35
36	B1	605	CLA	C4B-NB	6.30	1.40	1.35
36	BD	611	CLA	C4B-NB	6.30	1.40	1.35
36	b1	605	CLA	C4B-NB	6.30	1.40	1.35
36	DE	405	CLA	C4B-NB	6.29	1.40	1.35
36	bD	605	CLA	C4B-NB	6.28	1.40	1.35
36	BD	604	CLA	C4B-NB	6.27	1.40	1.35
36	BE	603	CLA	C4B-NB	6.27	1.40	1.35
36	BE	604	CLA	C4B-NB	6.27	1.40	1.35
36	bE	606	CLA	C4B-NB	6.27	1.40	1.35
36	ID	101	CLA	C4B-NB	6.25	1.40	1.35
36	IE	101	CLA	C4B-NB	6.25	1.40	1.35
36	BD	605	CLA	C4B-NB	6.25	1.40	1.35
33	1L	201	CYC	C3B-C2B	6.25	1.50	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	VB	201	CYC	C2A-C3A	6.25	1.50	1.36
36	cD	504	CLA	C4B-NB	6.24	1.40	1.35
36	aE	404	CLA	C4B-NB	6.24	1.40	1.35
36	I1	101	CLA	C4B-NB	6.24	1.40	1.35
36	aD	404	CLA	C4B-NB	6.24	1.40	1.35
36	bE	604	CLA	C4B-NB	6.23	1.40	1.35
33	a4	201	CYC	C3B-C2B	6.23	1.50	1.36
36	B1	608	CLA	C4B-NB	6.23	1.40	1.35
33	V4	201	CYC	C2A-C3A	6.23	1.50	1.36
33	1G	201	CYC	C3B-C2B	6.21	1.49	1.36
36	bD	604	CLA	C4B-NB	6.21	1.40	1.35
36	cE	509	CLA	C4B-NB	6.21	1.40	1.35
45	A1	412	PHO	C14-C13	-6.20	1.33	1.52
33	aB	201	CYC	C3B-C2B	6.20	1.49	1.36
36	BD	608	CLA	C4B-NB	6.19	1.40	1.35
36	b1	604	CLA	C4B-NB	6.18	1.40	1.35
36	bE	607	CLA	C4B-NB	6.18	1.40	1.35
36	B1	604	CLA	C4B-NB	6.18	1.40	1.35
36	bD	607	CLA	C4B-NB	6.18	1.40	1.35
36	c1	503	CLA	C4B-NB	6.17	1.40	1.35
45	DE	401	PHO	C1A-C2A	-6.17	1.42	1.51
36	b1	607	CLA	C4B-NB	6.16	1.40	1.35
36	cE	504	CLA	C4B-NB	6.16	1.40	1.35
36	BE	608	CLA	C4B-NB	6.16	1.40	1.35
36	cD	509	CLA	C4B-NB	6.16	1.40	1.35
36	CE	506	CLA	C4B-NB	6.15	1.40	1.35
36	c1	509	CLA	C4B-NB	6.12	1.40	1.35
36	CD	506	CLA	C4B-NB	6.10	1.40	1.35
36	a1	406	CLA	C4B-NB	6.09	1.40	1.35
36	aD	405	CLA	C4B-NB	6.09	1.40	1.35
36	C1	506	CLA	C4B-NB	6.08	1.40	1.35
36	cD	508	CLA	C4B-NB	6.06	1.40	1.35
36	c1	508	CLA	C4B-NB	6.04	1.40	1.35
36	aE	405	CLA	C4B-NB	6.04	1.40	1.35
36	a1	407	CLA	C4B-NB	6.03	1.40	1.35
36	cE	506	CLA	C4B-NB	6.02	1.40	1.35
45	D1	402	PHO	C1A-C2A	-6.00	1.42	1.51
36	AD	405	CLA	C4B-NB	6.00	1.40	1.35
36	BE	602	CLA	C4B-NB	5.99	1.40	1.35
36	BD	602	CLA	C4B-NB	5.98	1.40	1.35
36	aD	406	CLA	C4B-NB	5.98	1.40	1.35
45	DD	401	PHO	C3A-C2A	-5.96	1.49	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	cD	506	CLA	C4B-NB	5.96	1.40	1.35
45	aE	412	PHO	C3A-C2A	-5.96	1.49	1.54
45	dD	402	PHO	CAA-C2A	-5.96	1.40	1.54
36	c1	505	CLA	C4B-NB	5.96	1.40	1.35
33	R4	201	CYC	C1B-NB	-5.96	1.27	1.37
36	cE	508	CLA	C4B-NB	5.95	1.40	1.35
36	B1	602	CLA	C4B-NB	5.94	1.40	1.35
36	aE	406	CLA	C4B-NB	5.93	1.40	1.35
36	A1	405	CLA	C4B-NB	5.93	1.40	1.35
33	RB	201	CYC	C1B-NB	-5.92	1.27	1.37
36	A1	404	CLA	C4B-NB	5.92	1.40	1.35
36	AE	405	CLA	C4B-NB	5.92	1.40	1.35
36	AD	404	CLA	C4B-NB	5.91	1.40	1.35
36	AE	404	CLA	C4B-NB	5.90	1.40	1.35
33	3F	102	CYC	C2A-C3A	5.89	1.49	1.36
33	aK	201	CYC	C3B-C2B	5.88	1.49	1.36
33	YK	201	CYC	C3B-C2B	5.88	1.49	1.36
33	YF	201	CYC	C3B-C2B	5.87	1.49	1.36
33	3K	102	CYC	C2A-C3A	5.87	1.49	1.36
33	aF	201	CYC	C3B-C2B	5.85	1.49	1.36
33	f8	201	CYC	C3B-C2B	5.84	1.49	1.36
33	fC	201	CYC	C3B-C2B	5.84	1.49	1.36
33	dF	201	CYC	C3B-C2B	5.83	1.49	1.36
33	IF	201	CYC	C3B-C2B	5.83	1.49	1.36
33	fI	201	CYC	C3B-C2B	5.83	1.49	1.36
33	f9	201	CYC	C3B-C2B	5.83	1.49	1.36
33	IK	201	CYC	C3B-C2B	5.83	1.49	1.36
33	dK	201	CYC	C3B-C2B	5.83	1.49	1.36
33	f6	201	CYC	C3B-C2B	5.82	1.49	1.36
33	f7	201	CYC	C3B-C2B	5.82	1.49	1.36
33	fH	201	CYC	C3B-C2B	5.82	1.49	1.36
33	f2	201	CYC	C3B-C2B	5.82	1.49	1.36
33	fA	201	CYC	C3B-C2B	5.82	1.49	1.36
33	f5	201	CYC	C3B-C2B	5.82	1.49	1.36
36	CD	509	CLA	C4B-NB	5.81	1.40	1.35
33	oB	201	CYC	C3B-C2B	5.81	1.49	1.36
33	hF	201	CYC	C3B-C2B	5.81	1.49	1.36
33	hK	201	CYC	C3B-C2B	5.80	1.49	1.36
36	C1	509	CLA	C4B-NB	5.80	1.40	1.35
33	u4	201	CYC	C3B-C2B	5.80	1.49	1.36
36	CE	509	CLA	C4B-NB	5.80	1.40	1.35
33	fJ	201	CYC	C3B-C2B	5.80	1.49	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	f3	201	CYC	C3B-C2B	5.79	1.49	1.36
33	o4	201	CYC	C3B-C2B	5.79	1.49	1.36
33	7L	201	CYC	CHB-C1B	5.78	1.51	1.38
33	7G	201	CYC	CHB-C1B	5.77	1.51	1.38
33	uB	201	CYC	C3B-C2B	5.77	1.49	1.36
33	d6	201	CYC	C3B-C2B	5.76	1.49	1.36
33	dC	201	CYC	C3B-C2B	5.75	1.48	1.36
33	j5	201	CYC	C3B-C2B	5.74	1.48	1.36
33	lJ	201	CYC	C3B-C2B	5.74	1.48	1.36
33	lA	201	CYC	C3B-C2B	5.73	1.48	1.36
33	d2	201	CYC	C3B-C2B	5.73	1.48	1.36
33	lI	201	CYC	C3B-C2B	5.73	1.48	1.36
33	l8	201	CYC	C3B-C2B	5.73	1.48	1.36
33	j8	201	CYC	C3B-C2B	5.73	1.48	1.36
33	hA	201	CYC	C3B-C2B	5.73	1.48	1.36
33	dJ	201	CYC	C3B-C2B	5.72	1.48	1.36
33	d3	201	CYC	C3B-C2B	5.72	1.48	1.36
33	d7	201	CYC	C3B-C2B	5.72	1.48	1.36
33	l7	201	CYC	C3B-C2B	5.72	1.48	1.36
33	dI	201	CYC	C3B-C2B	5.72	1.48	1.36
33	l5	201	CYC	C3B-C2B	5.72	1.48	1.36
33	lH	201	CYC	C3B-C2B	5.72	1.48	1.36
33	dH	201	CYC	C3B-C2B	5.72	1.48	1.36
33	dA	201	CYC	C3B-C2B	5.71	1.48	1.36
33	jJ	201	CYC	C3B-C2B	5.71	1.48	1.36
33	j3	201	CYC	C3B-C2B	5.71	1.48	1.36
33	d8	201	CYC	C3B-C2B	5.71	1.48	1.36
33	h7	201	CYC	C3B-C2B	5.71	1.48	1.36
33	d5	201	CYC	C3B-C2B	5.71	1.48	1.36
33	l9	201	CYC	C3B-C2B	5.71	1.48	1.36
33	h9	201	CYC	C3B-C2B	5.71	1.48	1.36
33	l2	201	CYC	C3B-C2B	5.71	1.48	1.36
33	l3	201	CYC	C3B-C2B	5.70	1.48	1.36
33	j6	201	CYC	C3B-C2B	5.70	1.48	1.36
33	jI	201	CYC	C3B-C2B	5.70	1.48	1.36
33	d9	201	CYC	C3B-C2B	5.70	1.48	1.36
33	h3	201	CYC	C3B-C2B	5.70	1.48	1.36
33	h8	201	CYC	C3B-C2B	5.70	1.48	1.36
33	jH	201	CYC	C3B-C2B	5.70	1.48	1.36
33	hJ	201	CYC	C3B-C2B	5.70	1.48	1.36
33	j7	201	CYC	C3B-C2B	5.69	1.48	1.36
33	h2	201	CYC	C3B-C2B	5.69	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	bC	201	CYC	C3B-C2B	5.69	1.48	1.36
33	hC	201	CYC	C3B-C2B	5.69	1.48	1.36
33	b7	201	CYC	C3B-C2B	5.69	1.48	1.36
33	bA	201	CYC	C3B-C2B	5.69	1.48	1.36
33	j2	201	CYC	C3B-C2B	5.69	1.48	1.36
33	bJ	201	CYC	C3B-C2B	5.69	1.48	1.36
33	hH	201	CYC	C3B-C2B	5.69	1.48	1.36
33	b3	201	CYC	C3B-C2B	5.68	1.48	1.36
33	l6	201	CYC	C3B-C2B	5.68	1.48	1.36
33	jA	201	CYC	C3B-C2B	5.68	1.48	1.36
33	lC	201	CYC	C3B-C2B	5.68	1.48	1.36
33	b5	201	CYC	C3B-C2B	5.68	1.48	1.36
33	j9	201	CYC	C3B-C2B	5.68	1.48	1.36
33	bH	201	CYC	C3B-C2B	5.68	1.48	1.36
33	h6	201	CYC	C3B-C2B	5.67	1.48	1.36
33	bI	201	CYC	C3B-C2B	5.67	1.48	1.36
33	b9	201	CYC	C3B-C2B	5.66	1.48	1.36
33	jC	201	CYC	C3B-C2B	5.66	1.48	1.36
33	b2	201	CYC	C3B-C2B	5.66	1.48	1.36
33	b6	201	CYC	C3B-C2B	5.66	1.48	1.36
33	2L	101	CYC	C3B-C2B	5.65	1.48	1.36
33	hI	201	CYC	C3B-C2B	5.65	1.48	1.36
33	h5	201	CYC	C3B-C2B	5.64	1.48	1.36
33	b8	201	CYC	C3B-C2B	5.64	1.48	1.36
33	XB	201	CYC	C2A-C3A	5.64	1.48	1.36
33	z4	201	CYC	C2A-C3A	5.63	1.48	1.36
33	X4	201	CYC	C2A-C3A	5.63	1.48	1.36
33	2G	101	CYC	C3B-C2B	5.63	1.48	1.36
33	3F	101	CYC	C3B-C2B	5.62	1.48	1.36
33	zB	201	CYC	C2A-C3A	5.62	1.48	1.36
33	R4	201	CYC	C3B-C2B	5.59	1.48	1.36
33	RB	201	CYC	C3B-C2B	5.59	1.48	1.36
33	hK	201	CYC	CHB-C1B	5.59	1.51	1.38
33	hF	201	CYC	CHB-C1B	5.58	1.51	1.38
33	fK	201	CYC	C3B-C2B	5.57	1.48	1.36
33	B4	1003	CYC	CHB-C1B	5.57	1.51	1.38
33	YF	201	CYC	CHB-C1B	5.57	1.51	1.38
33	fF	201	CYC	C3B-C2B	5.57	1.48	1.36
33	3K	101	CYC	C3B-C2B	5.57	1.48	1.36
33	Q4	201	CYC	C2A-C3A	5.56	1.48	1.36
33	YK	201	CYC	CHB-C1B	5.55	1.51	1.38
33	dF	201	CYC	CHB-C1B	5.54	1.51	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	BB	1003	CYC	CHB-C1B	5.54	1.51	1.38
33	QB	201	CYC	C2A-C3A	5.54	1.48	1.36
33	dK	201	CYC	CHB-C1B	5.52	1.51	1.38
33	MG	201	CYC	C2A-C3A	5.52	1.48	1.36
33	ML	201	CYC	C2A-C3A	5.52	1.48	1.36
33	IK	201	CYC	CHB-C1B	5.51	1.51	1.38
33	PB	201	CYC	C2A-C3A	5.51	1.48	1.36
33	IF	201	CYC	CHB-C1B	5.51	1.51	1.38
33	RG	201	CYC	C2A-C3A	5.50	1.48	1.36
33	P4	201	CYC	C2A-C3A	5.47	1.48	1.36
33	e8	201	CYC	C3B-C2B	5.47	1.48	1.36
33	RL	201	CYC	C2A-C3A	5.47	1.48	1.36
33	eI	201	CYC	C3B-C2B	5.44	1.48	1.36
33	eJ	201	CYC	C3B-C2B	5.44	1.48	1.36
33	e3	201	CYC	C3B-C2B	5.43	1.48	1.36
33	SB	201	CYC	C3B-C2B	5.43	1.48	1.36
33	e7	201	CYC	C3B-C2B	5.43	1.48	1.36
33	k3	201	CYC	C3B-C2B	5.43	1.48	1.36
33	eH	201	CYC	C3B-C2B	5.42	1.48	1.36
33	e6	201	CYC	C3B-C2B	5.42	1.48	1.36
33	k2	201	CYC	C3B-C2B	5.42	1.48	1.36
33	Z4	201	CYC	C3B-C2B	5.42	1.48	1.36
33	e2	201	CYC	C3B-C2B	5.42	1.48	1.36
33	OB	201	CYC	C3B-C2B	5.42	1.48	1.36
33	e5	201	CYC	C3B-C2B	5.42	1.48	1.36
33	e9	201	CYC	C3B-C2B	5.42	1.48	1.36
33	O4	201	CYC	C3B-C2B	5.41	1.48	1.36
33	ZB	201	CYC	C3B-C2B	5.41	1.48	1.36
33	k7	201	CYC	C3B-C2B	5.41	1.48	1.36
33	eA	201	CYC	C3B-C2B	5.41	1.48	1.36
33	BC	301	CYC	C3B-C2B	5.41	1.48	1.36
33	B6	301	CYC	C3B-C2B	5.41	1.48	1.36
33	k9	201	CYC	C3B-C2B	5.41	1.48	1.36
33	S4	201	CYC	C3B-C2B	5.41	1.48	1.36
33	IG	201	CYC	CHB-C1B	5.41	1.50	1.38
33	B7	301	CYC	C3B-C2B	5.41	1.48	1.36
33	kI	201	CYC	C3B-C2B	5.40	1.48	1.36
33	kH	201	CYC	C3B-C2B	5.40	1.48	1.36
33	g5	202	CYC	C3B-C2B	5.40	1.48	1.36
33	gJ	202	CYC	C3B-C2B	5.40	1.48	1.36
33	k5	201	CYC	C3B-C2B	5.39	1.48	1.36
33	eC	201	CYC	C3B-C2B	5.39	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	BI	301	CYC	C3B-C2B	5.39	1.48	1.36
33	BA	301	CYC	C3B-C2B	5.39	1.48	1.36
33	AG	201	CYC	C3B-C2B	5.39	1.48	1.36
33	g8	202	CYC	C3B-C2B	5.39	1.48	1.36
33	k8	201	CYC	C3B-C2B	5.39	1.48	1.36
33	kA	201	CYC	C3B-C2B	5.39	1.48	1.36
33	IL	201	CYC	CHB-C1B	5.39	1.50	1.38
33	AL	201	CYC	C3B-C2B	5.38	1.48	1.36
33	jF	201	CYC	C3B-C2B	5.38	1.48	1.36
33	gH	202	CYC	C3B-C2B	5.38	1.48	1.36
33	YK	201	CYC	CHB-C4A	5.38	1.53	1.40
33	kJ	201	CYC	C3B-C2B	5.38	1.48	1.36
33	k6	201	CYC	C3B-C2B	5.38	1.48	1.36
33	kC	201	CYC	C3B-C2B	5.38	1.48	1.36
33	B3	301	CYC	C3B-C2B	5.38	1.48	1.36
33	1L	201	CYC	CHB-C1B	5.38	1.50	1.38
38	hE	103	SQD	O48-C23	5.37	1.49	1.33
38	hD	103	SQD	O48-C23	5.37	1.49	1.33
33	jK	201	CYC	C3B-C2B	5.37	1.48	1.36
38	h1	103	SQD	O48-C23	5.37	1.49	1.33
33	B9	301	CYC	C3B-C2B	5.36	1.48	1.36
33	wB	201	CYC	C2A-C3A	5.36	1.48	1.36
33	cI	201	CYC	C3B-C2B	5.35	1.48	1.36
33	c8	202	CYC	CHA-C1A	5.35	1.39	1.35
33	1G	201	CYC	CHB-C1B	5.35	1.50	1.38
33	YF	201	CYC	CHB-C4A	5.35	1.52	1.40
33	B2	301	CYC	C3B-C2B	5.35	1.48	1.36
33	c2	201	CYC	C3B-C2B	5.34	1.48	1.36
33	w4	201	CYC	C2A-C3A	5.34	1.48	1.36
33	dK	201	CYC	CHB-C4A	5.34	1.52	1.40
33	iJ	201	CYC	CHA-C1A	5.33	1.39	1.35
33	c3	201	CYC	C3B-C2B	5.33	1.48	1.36
33	w4	201	CYC	C3B-C2B	5.33	1.48	1.36
33	dF	201	CYC	CHB-C4A	5.33	1.52	1.40
33	c6	201	CYC	C3B-C2B	5.32	1.48	1.36
33	iC	202	CYC	C3B-C2B	5.32	1.48	1.36
33	wB	201	CYC	C3B-C2B	5.32	1.48	1.36
33	i2	202	CYC	C3B-C2B	5.32	1.48	1.36
33	c5	201	CYC	C3B-C2B	5.32	1.48	1.36
33	c9	201	CYC	C3B-C2B	5.31	1.48	1.36
33	hF	201	CYC	CHB-C4A	5.31	1.52	1.40
33	cH	201	CYC	C3B-C2B	5.31	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	iA	202	CYC	C3B-C2B	5.31	1.48	1.36
33	i6	201	CYC	CHA-C1A	5.31	1.39	1.35
33	BB	1002	CYC	C3B-C2B	5.31	1.48	1.36
33	a4	201	CYC	C2A-C3A	5.31	1.48	1.36
33	c7	201	CYC	C3B-C2B	5.30	1.48	1.36
33	cJ	201	CYC	C3B-C2B	5.30	1.48	1.36
33	c8	201	CYC	C3B-C2B	5.30	1.48	1.36
33	i8	202	CYC	C3B-C2B	5.30	1.48	1.36
33	i3	202	CYC	C3B-C2B	5.29	1.48	1.36
33	hK	201	CYC	CHB-C4A	5.29	1.52	1.40
33	i6	202	CYC	C3B-C2B	5.29	1.48	1.36
33	cC	201	CYC	C3B-C2B	5.29	1.48	1.36
33	V4	201	CYC	C3B-C2B	5.29	1.48	1.36
33	B4	1002	CYC	C3B-C2B	5.29	1.48	1.36
33	cA	201	CYC	C3B-C2B	5.29	1.48	1.36
33	iH	202	CYC	C3B-C2B	5.29	1.48	1.36
33	CB	1003	CYC	C3B-C2B	5.29	1.48	1.36
33	i7	202	CYC	C3B-C2B	5.29	1.48	1.36
33	aB	201	CYC	C2A-C3A	5.29	1.48	1.36
33	VB	201	CYC	C3B-C2B	5.28	1.48	1.36
33	i9	202	CYC	C3B-C2B	5.28	1.47	1.36
33	C4	1003	CYC	C3B-C2B	5.28	1.47	1.36
33	iJ	202	CYC	C3B-C2B	5.28	1.47	1.36
33	i5	202	CYC	C3B-C2B	5.27	1.47	1.36
33	i2	201	CYC	CHA-C1A	5.27	1.39	1.35
33	iI	202	CYC	C3B-C2B	5.27	1.47	1.36
33	c2	202	CYC	CHA-C1A	5.27	1.39	1.35
33	NL	201	CYC	C3B-C2B	5.27	1.47	1.36
33	NG	201	CYC	C3B-C2B	5.26	1.47	1.36
33	c6	202	CYC	CHA-C1A	5.26	1.39	1.35
33	c3	202	CYC	CHA-C1A	5.26	1.39	1.35
33	JF	201	CYC	C3B-C2B	5.25	1.47	1.36
33	i7	201	CYC	CHA-C1A	5.25	1.39	1.35
45	aD	412	PHO	C14-C13	-5.25	1.36	1.52
33	JK	201	CYC	C3B-C2B	5.25	1.47	1.36
33	i5	201	CYC	CHA-C1A	5.24	1.39	1.35
33	cH	202	CYC	CHA-C1A	5.24	1.39	1.35
33	iI	201	CYC	CHA-C1A	5.24	1.39	1.35
33	cA	202	CYC	CHA-C1A	5.23	1.39	1.35
33	uB	201	CYC	C2A-C3A	5.23	1.47	1.36
33	iH	201	CYC	CHA-C1A	5.23	1.39	1.35
33	kK	201	CYC	C3B-C2B	5.23	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	i9	201	CYC	CHA-C1A	5.23	1.39	1.35
33	c7	202	CYC	CHA-C1A	5.23	1.39	1.35
33	kF	201	CYC	C3B-C2B	5.22	1.47	1.36
33	cI	202	CYC	CHA-C1A	5.22	1.39	1.35
33	b4	101	CYC	C3B-C2B	5.21	1.47	1.36
33	3F	101	CYC	C2A-C3A	5.21	1.47	1.36
36	CD	511	CLA	C4B-NB	5.21	1.39	1.35
33	3K	101	CYC	C2A-C3A	5.21	1.47	1.36
36	CE	511	CLA	C4B-NB	5.20	1.39	1.35
33	i8	201	CYC	CHA-C1A	5.20	1.39	1.35
33	c5	202	CYC	CHA-C1A	5.20	1.39	1.35
33	QB	201	CYC	C3B-C2B	5.20	1.47	1.36
33	WG	201	CYC	C3B-C2B	5.20	1.47	1.36
33	cC	202	CYC	CHA-C1A	5.20	1.39	1.35
33	S4	201	CYC	CHB-C1B	5.20	1.50	1.38
33	bB	101	CYC	C3B-C2B	5.19	1.47	1.36
33	Q4	201	CYC	C3B-C2B	5.19	1.47	1.36
33	SB	201	CYC	CHB-C1B	5.19	1.50	1.38
33	u4	201	CYC	C2A-C3A	5.19	1.47	1.36
33	WL	201	CYC	C3B-C2B	5.19	1.47	1.36
33	O4	201	CYC	C2A-C3A	5.19	1.47	1.36
33	i3	201	CYC	CHA-C1A	5.19	1.39	1.35
33	iC	201	CYC	CHA-C1A	5.19	1.39	1.35
33	LF	201	CYC	C2A-C3A	5.19	1.47	1.36
33	aB	201	CYC	CHB-C1B	5.18	1.50	1.38
33	cJ	202	CYC	CHA-C1A	5.18	1.39	1.35
33	IF	201	CYC	CHB-C4A	5.18	1.52	1.40
33	iA	201	CYC	CHA-C1A	5.17	1.39	1.35
33	TG	201	CYC	C3B-C2B	5.17	1.47	1.36
33	JK	201	CYC	CHB-C1B	5.17	1.50	1.38
33	nF	201	CYC	C3B-C2B	5.17	1.47	1.36
33	OB	201	CYC	C2A-C3A	5.16	1.47	1.36
33	c9	202	CYC	CHA-C1A	5.16	1.39	1.35
33	LK	201	CYC	C2A-C3A	5.16	1.47	1.36
33	IL	201	CYC	C3B-C2B	5.16	1.47	1.36
33	JF	201	CYC	CHB-C1B	5.16	1.50	1.38
33	JG	201	CYC	C3B-C2B	5.15	1.47	1.36
33	a4	201	CYC	CHB-C1B	5.15	1.50	1.38
33	RG	201	CYC	C3B-C2B	5.15	1.47	1.36
33	JL	201	CYC	C3B-C2B	5.14	1.47	1.36
33	RL	201	CYC	C3B-C2B	5.14	1.47	1.36
33	TL	201	CYC	C3B-C2B	5.14	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	nK	201	CYC	C3B-C2B	5.14	1.47	1.36
33	ZK	201	CYC	C3B-C2B	5.14	1.47	1.36
33	IK	201	CYC	CHB-C4A	5.14	1.52	1.40
45	aE	412	PHO	C3B-C2B	5.13	1.47	1.40
33	BB	1004	CYC	C3B-C2B	5.13	1.47	1.36
33	IG	201	CYC	C3B-C2B	5.13	1.47	1.36
33	B4	1004	CYC	C3B-C2B	5.13	1.47	1.36
45	a1	413	PHO	C3B-C2B	5.13	1.47	1.40
33	OG	201	CYC	C2A-C3A	5.12	1.47	1.36
33	OL	201	CYC	C2A-C3A	5.12	1.47	1.36
33	T4	201	CYC	C3B-C2B	5.12	1.47	1.36
33	ZF	201	CYC	C3B-C2B	5.12	1.47	1.36
33	CB	1001	CYC	C3B-C2B	5.12	1.47	1.36
33	XB	201	CYC	C3B-C2B	5.11	1.47	1.36
33	X4	201	CYC	C3B-C2B	5.11	1.47	1.36
33	TB	201	CYC	C3B-C2B	5.11	1.47	1.36
33	W4	201	CYC	C3B-C2B	5.11	1.47	1.36
33	sB	201	CYC	C2A-C3A	5.10	1.47	1.36
33	WB	201	CYC	C3B-C2B	5.10	1.47	1.36
33	C4	1001	CYC	C3B-C2B	5.09	1.47	1.36
33	PB	201	CYC	C3B-C2B	5.08	1.47	1.36
36	C1	511	CLA	C4B-NB	5.08	1.39	1.35
33	P4	201	CYC	C3B-C2B	5.08	1.47	1.36
33	eC	202	CYC	CHA-C1A	5.08	1.39	1.35
33	PG	201	CYC	C2A-C3A	5.07	1.47	1.36
33	s4	201	CYC	C2A-C3A	5.07	1.47	1.36
33	PL	201	CYC	C2A-C3A	5.07	1.47	1.36
33	zB	201	CYC	C3B-C2B	5.05	1.47	1.36
45	A1	412	PHO	O2D-CGD	5.04	1.45	1.33
33	XF	201	CYC	C3B-C2B	5.04	1.47	1.36
33	XK	201	CYC	C3B-C2B	5.03	1.47	1.36
45	DE	401	PHO	O2D-CGD	5.03	1.45	1.33
33	y4	201	CYC	C2A-C3A	5.03	1.47	1.36
33	6G	201	CYC	C3B-C2B	5.03	1.47	1.36
33	z4	201	CYC	C3B-C2B	5.03	1.47	1.36
33	6L	201	CYC	C3B-C2B	5.02	1.47	1.36
33	e7	202	CYC	CHA-C1A	5.02	1.39	1.35
33	yB	201	CYC	C2A-C3A	5.02	1.47	1.36
33	bK	201	CYC	C3B-C2B	5.01	1.47	1.36
33	e3	202	CYC	CHA-C1A	5.01	1.39	1.35
33	eA	202	CYC	CHA-C1A	5.00	1.39	1.35
33	e5	202	CYC	CHA-C1A	5.00	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	bF	201	CYC	C3B-C2B	5.00	1.47	1.36
33	eJ	202	CYC	CHA-C1A	5.00	1.39	1.35
45	DD	403	PHO	CAA-C2A	-5.00	1.42	1.54
33	AG	201	CYC	C2A-C3A	4.99	1.47	1.36
33	e9	202	CYC	CHA-C1A	4.99	1.39	1.35
33	oB	201	CYC	CHB-C1B	4.99	1.49	1.38
33	eH	202	CYC	CHA-C1A	4.98	1.39	1.35
33	1L	201	CYC	C2A-C3A	4.98	1.47	1.36
45	aD	412	PHO	O2D-CGD	4.98	1.45	1.33
33	e6	202	CYC	CHA-C1A	4.98	1.39	1.35
33	q4	201	CYC	C3B-C2B	4.97	1.47	1.36
33	B4	1003	CYC	C3B-C2B	4.97	1.47	1.36
33	o4	201	CYC	CHB-C1B	4.96	1.49	1.38
33	qB	201	CYC	C3B-C2B	4.96	1.47	1.36
33	S4	201	CYC	C2A-C3A	4.96	1.47	1.36
33	1G	201	CYC	C2A-C3A	4.96	1.47	1.36
33	JL	201	CYC	C2A-C3A	4.96	1.47	1.36
33	fF	201	CYC	C2A-C3A	4.96	1.47	1.36
33	BB	1003	CYC	C3B-C2B	4.96	1.47	1.36
33	AL	201	CYC	C2A-C3A	4.95	1.47	1.36
33	SB	201	CYC	C2A-C3A	4.95	1.47	1.36
33	fK	201	CYC	C2A-C3A	4.95	1.47	1.36
33	B4	1001	CYC	CHB-C1B	4.95	1.49	1.38
33	JG	201	CYC	C2A-C3A	4.95	1.47	1.36
33	T4	201	CYC	C2A-C3A	4.94	1.47	1.36
33	TB	201	CYC	C2A-C3A	4.94	1.47	1.36
33	R4	201	CYC	C1C-NC	-4.94	1.31	1.37
33	kK	201	CYC	C2A-C3A	4.94	1.47	1.36
33	BB	1001	CYC	CHB-C1B	4.94	1.49	1.38
33	RB	201	CYC	C1C-NC	-4.94	1.31	1.37
33	VG	201	CYC	C3B-C2B	4.94	1.47	1.36
33	RB	201	CYC	OB-C4B	4.93	1.33	1.23
33	VL	201	CYC	C3B-C2B	4.93	1.47	1.36
33	kF	201	CYC	C2A-C3A	4.93	1.47	1.36
33	R4	201	CYC	OB-C4B	4.92	1.32	1.23
33	eI	202	CYC	CHA-C1A	4.92	1.39	1.35
33	i3	202	CYC	C2A-C3A	4.92	1.47	1.36
45	DD	401	PHO	O2D-CGD	4.91	1.45	1.33
33	uB	201	CYC	CHB-C1B	4.91	1.49	1.38
33	ZB	201	CYC	C2A-C3A	4.91	1.47	1.36
33	e8	202	CYC	CHA-C1A	4.91	1.39	1.35
33	Z4	201	CYC	C2A-C3A	4.91	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	i6	202	CYC	C2A-C3A	4.91	1.47	1.36
33	i9	202	CYC	C2A-C3A	4.91	1.47	1.36
33	e2	202	CYC	CHA-C1A	4.91	1.39	1.35
45	aE	412	PHO	O2D-CGD	4.91	1.45	1.33
33	u4	201	CYC	CHB-C1B	4.90	1.49	1.38
33	iH	202	CYC	C2A-C3A	4.90	1.47	1.36
33	9K	201	CYC	C3B-C2B	4.90	1.47	1.36
33	9F	201	CYC	C3B-C2B	4.90	1.47	1.36
33	iI	202	CYC	C2A-C3A	4.90	1.47	1.36
33	i2	202	CYC	C2A-C3A	4.90	1.47	1.36
33	GL	201	CYC	C3B-C2B	4.89	1.47	1.36
33	iC	202	CYC	C2A-C3A	4.89	1.47	1.36
33	1L	201	CYC	CHB-C4A	4.89	1.51	1.40
33	b4	101	CYC	C2A-C3A	4.89	1.47	1.36
33	GG	201	CYC	C3B-C2B	4.89	1.47	1.36
33	i7	202	CYC	C2A-C3A	4.89	1.47	1.36
33	1G	201	CYC	CHB-C4A	4.89	1.51	1.40
33	iA	202	CYC	C2A-C3A	4.88	1.47	1.36
33	iJ	202	CYC	C2A-C3A	4.88	1.47	1.36
33	kC	201	CYC	C2A-C3A	4.88	1.47	1.36
33	b7	201	CYC	C2A-C3A	4.88	1.47	1.36
33	d9	201	CYC	C2A-C3A	4.88	1.47	1.36
33	l9	201	CYC	C2A-C3A	4.88	1.47	1.36
33	i5	202	CYC	C2A-C3A	4.88	1.47	1.36
33	i8	202	CYC	C2A-C3A	4.88	1.47	1.36
33	k3	201	CYC	C2A-C3A	4.88	1.47	1.36
33	e9	201	CYC	C2A-C3A	4.87	1.47	1.36
33	e8	201	CYC	C2A-C3A	4.87	1.47	1.36
33	mF	201	CYC	C3B-C2B	4.87	1.47	1.36
33	d6	201	CYC	C2A-C3A	4.87	1.47	1.36
33	k9	201	CYC	C2A-C3A	4.87	1.47	1.36
33	k6	201	CYC	C2A-C3A	4.87	1.47	1.36
33	k5	201	CYC	C2A-C3A	4.87	1.47	1.36
45	aD	412	PHO	C3B-C2B	4.87	1.47	1.40
33	bI	201	CYC	C2A-C3A	4.86	1.47	1.36
33	bJ	201	CYC	C2A-C3A	4.86	1.47	1.36
33	eC	201	CYC	C2A-C3A	4.86	1.47	1.36
33	3K	101	CYC	CHB-C1B	4.86	1.49	1.38
33	3F	101	CYC	CHB-C1B	4.86	1.49	1.38
33	e7	201	CYC	C2A-C3A	4.86	1.47	1.36
45	a1	413	PHO	O2D-CGD	4.86	1.45	1.33
33	bB	101	CYC	C2A-C3A	4.86	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	7L	201	CYC	C2A-C3A	4.86	1.47	1.36
33	b3	201	CYC	C2A-C3A	4.86	1.47	1.36
33	dJ	201	CYC	C2A-C3A	4.86	1.47	1.36
33	d2	201	CYC	C2A-C3A	4.86	1.47	1.36
33	g5	201	CYC	CHA-C1A	4.86	1.39	1.35
33	e3	201	CYC	C2A-C3A	4.86	1.47	1.36
33	r4	201	CYC	C3B-C2B	4.86	1.47	1.36
33	d8	201	CYC	C2A-C3A	4.86	1.47	1.36
33	bA	201	CYC	C2A-C3A	4.86	1.47	1.36
33	7G	201	CYC	C2A-C3A	4.86	1.47	1.36
33	lJ	201	CYC	C2A-C3A	4.86	1.47	1.36
33	WB	201	CYC	C2A-C3A	4.85	1.47	1.36
33	cC	201	CYC	C2A-C3A	4.85	1.47	1.36
33	kH	201	CYC	C2A-C3A	4.85	1.47	1.36
33	mK	201	CYC	C3B-C2B	4.85	1.47	1.36
33	bH	201	CYC	C2A-C3A	4.85	1.47	1.36
33	ZF	201	CYC	C1C-NC	-4.85	1.31	1.37
33	eK	201	CYC	C2A-C3A	4.85	1.47	1.36
33	b2	201	CYC	C2A-C3A	4.85	1.47	1.36
33	W4	201	CYC	C2A-C3A	4.85	1.47	1.36
33	gI	201	CYC	CHA-C1A	4.85	1.39	1.35
33	k2	201	CYC	C2A-C3A	4.85	1.47	1.36
33	bC	201	CYC	C2A-C3A	4.85	1.47	1.36
33	eH	201	CYC	C2A-C3A	4.85	1.47	1.36
33	NF	101	CYC	CHB-C1B	4.85	1.49	1.38
33	l6	201	CYC	C2A-C3A	4.85	1.47	1.36
33	cI	201	CYC	C2A-C3A	4.85	1.47	1.36
33	PL	201	CYC	C3B-C2B	4.85	1.47	1.36
33	k7	201	CYC	C2A-C3A	4.85	1.47	1.36
33	g5	202	CYC	C2A-C3A	4.85	1.47	1.36
33	kA	201	CYC	C2A-C3A	4.85	1.47	1.36
33	d3	201	CYC	C2A-C3A	4.85	1.47	1.36
33	B9	301	CYC	C2A-C3A	4.85	1.47	1.36
33	dH	201	CYC	C2A-C3A	4.85	1.47	1.36
33	mI	201	CYC	CHA-C1A	4.85	1.39	1.35
33	eI	201	CYC	C2A-C3A	4.85	1.47	1.36
33	OG	201	CYC	C3B-C2B	4.85	1.47	1.36
33	g8	202	CYC	C2A-C3A	4.85	1.47	1.36
33	dC	201	CYC	C2A-C3A	4.84	1.47	1.36
33	hC	201	CYC	C2A-C3A	4.84	1.47	1.36
33	d7	201	CYC	C2A-C3A	4.84	1.47	1.36
33	b5	201	CYC	C2A-C3A	4.84	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	l3	201	CYC	C2A-C3A	4.84	1.47	1.36
33	B7	301	CYC	C2A-C3A	4.84	1.47	1.36
33	l8	201	CYC	C2A-C3A	4.84	1.47	1.36
33	hA	201	CYC	C2A-C3A	4.84	1.47	1.36
33	rB	201	CYC	C3B-C2B	4.84	1.47	1.36
33	eA	201	CYC	C2A-C3A	4.84	1.47	1.36
33	dI	201	CYC	C2A-C3A	4.84	1.47	1.36
33	PG	201	CYC	C3B-C2B	4.84	1.47	1.36
33	B3	301	CYC	C2A-C3A	4.84	1.47	1.36
33	lA	201	CYC	C2A-C3A	4.84	1.47	1.36
45	DD	401	PHO	C3B-C2B	4.84	1.47	1.40
33	l5	201	CYC	C2A-C3A	4.84	1.47	1.36
33	k8	201	CYC	C2A-C3A	4.84	1.47	1.36
33	4L	201	CYC	C3B-C2B	4.84	1.47	1.36
33	c7	201	CYC	C2A-C3A	4.84	1.47	1.36
33	lC	201	CYC	C2A-C3A	4.84	1.47	1.36
33	NK	101	CYC	CHB-C1B	4.84	1.49	1.38
33	dA	201	CYC	C2A-C3A	4.84	1.47	1.36
33	OL	201	CYC	C3B-C2B	4.84	1.47	1.36
33	fA	201	CYC	C2A-C3A	4.83	1.47	1.36
33	h2	201	CYC	C2A-C3A	4.83	1.47	1.36
33	l7	201	CYC	C2A-C3A	4.83	1.47	1.36
33	gH	202	CYC	C2A-C3A	4.83	1.47	1.36
33	c8	201	CYC	C2A-C3A	4.83	1.47	1.36
33	lH	201	CYC	C2A-C3A	4.83	1.47	1.36
33	kJ	201	CYC	C2A-C3A	4.83	1.47	1.36
33	e6	201	CYC	C2A-C3A	4.83	1.47	1.36
33	jI	201	CYC	C2A-C3A	4.83	1.47	1.36
33	eF	201	CYC	CHB-C1B	4.83	1.49	1.38
33	eK	201	CYC	CHB-C1B	4.83	1.49	1.38
33	BI	301	CYC	C2A-C3A	4.83	1.47	1.36
33	f7	201	CYC	C2A-C3A	4.83	1.47	1.36
33	e5	201	CYC	C2A-C3A	4.83	1.47	1.36
33	h8	201	CYC	C2A-C3A	4.83	1.47	1.36
33	lI	201	CYC	C2A-C3A	4.83	1.47	1.36
33	f2	201	CYC	C2A-C3A	4.83	1.47	1.36
33	BC	301	CYC	C2A-C3A	4.83	1.47	1.36
33	B2	301	CYC	C2A-C3A	4.83	1.47	1.36
33	d5	201	CYC	C2A-C3A	4.83	1.47	1.36
33	eF	201	CYC	C2A-C3A	4.83	1.47	1.36
33	b6	201	CYC	C2A-C3A	4.82	1.47	1.36
33	B6	301	CYC	C2A-C3A	4.82	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	fJ	201	CYC	C2A-C3A	4.82	1.47	1.36
33	f8	201	CYC	C2A-C3A	4.82	1.47	1.36
33	b9	201	CYC	C2A-C3A	4.82	1.47	1.36
33	3K	101	CYC	CHB-C4A	4.82	1.51	1.40
33	mF	201	CYC	C2A-C3A	4.82	1.47	1.36
33	BA	301	CYC	C2A-C3A	4.82	1.47	1.36
33	b8	201	CYC	C2A-C3A	4.82	1.47	1.36
33	kI	201	CYC	C2A-C3A	4.82	1.47	1.36
33	j9	201	CYC	C2A-C3A	4.82	1.47	1.36
33	eJ	201	CYC	C2A-C3A	4.82	1.47	1.36
33	cH	201	CYC	C2A-C3A	4.82	1.47	1.36
33	3F	101	CYC	CHB-C4A	4.82	1.51	1.40
33	4G	201	CYC	C3B-C2B	4.82	1.47	1.36
33	hH	201	CYC	C2A-C3A	4.82	1.47	1.36
33	j8	201	CYC	C2A-C3A	4.82	1.47	1.36
33	e2	201	CYC	C2A-C3A	4.82	1.47	1.36
33	h9	201	CYC	C2A-C3A	4.81	1.47	1.36
33	hJ	201	CYC	C2A-C3A	4.81	1.47	1.36
33	fI	201	CYC	C2A-C3A	4.81	1.47	1.36
33	cJ	201	CYC	C2A-C3A	4.81	1.47	1.36
33	c9	201	CYC	C2A-C3A	4.81	1.47	1.36
33	h6	201	CYC	C2A-C3A	4.81	1.47	1.36
33	c5	201	CYC	C2A-C3A	4.81	1.47	1.36
45	A1	412	PHO	C3B-C2B	4.81	1.47	1.40
33	fH	201	CYC	C2A-C3A	4.81	1.47	1.36
33	f9	201	CYC	C2A-C3A	4.81	1.47	1.36
33	fC	201	CYC	C2A-C3A	4.81	1.47	1.36
33	g3	201	CYC	CHA-C1A	4.81	1.39	1.35
33	3K	102	CYC	C3B-C2B	4.81	1.46	1.36
33	jC	201	CYC	C2A-C3A	4.81	1.46	1.36
33	hI	201	CYC	C2A-C3A	4.81	1.46	1.36
33	gJ	202	CYC	C2A-C3A	4.81	1.46	1.36
33	VG	201	CYC	C2A-C3A	4.81	1.46	1.36
33	l2	201	CYC	C2A-C3A	4.81	1.46	1.36
33	c2	201	CYC	C2A-C3A	4.81	1.46	1.36
33	5L	201	CYC	C2A-C3A	4.81	1.46	1.36
33	NF	101	CYC	C3B-C2B	4.81	1.46	1.36
33	c6	201	CYC	C2A-C3A	4.80	1.46	1.36
33	jH	201	CYC	C2A-C3A	4.80	1.46	1.36
33	h5	201	CYC	C2A-C3A	4.80	1.46	1.36
45	dE	402	PHO	C3B-C2B	4.80	1.47	1.40
33	5G	201	CYC	C2A-C3A	4.80	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	j5	201	CYC	C2A-C3A	4.80	1.46	1.36
33	jJ	201	CYC	C2A-C3A	4.80	1.46	1.36
33	ZK	201	CYC	C1C-NC	-4.80	1.31	1.37
33	h7	201	CYC	C2A-C3A	4.80	1.46	1.36
33	1G	201	CYC	C1C-NC	-4.80	1.31	1.37
38	BE	621	SQD	O8-S	4.80	1.64	1.47
33	mK	201	CYC	C2A-C3A	4.80	1.46	1.36
33	WG	201	CYC	CHB-C1B	4.80	1.49	1.38
33	h3	201	CYC	C2A-C3A	4.80	1.46	1.36
33	j6	201	CYC	C2A-C3A	4.80	1.46	1.36
33	j2	201	CYC	C2A-C3A	4.80	1.46	1.36
33	c3	201	CYC	C2A-C3A	4.80	1.46	1.36
33	1L	201	CYC	C1C-NC	-4.79	1.31	1.37
33	gC	201	CYC	CHA-C1A	4.79	1.39	1.35
33	jA	201	CYC	C2A-C3A	4.79	1.46	1.36
33	WL	201	CYC	CHB-C1B	4.79	1.49	1.38
33	cA	201	CYC	C2A-C3A	4.79	1.46	1.36
33	f3	201	CYC	C2A-C3A	4.79	1.46	1.36
33	3F	102	CYC	C3B-C2B	4.79	1.46	1.36
33	j7	201	CYC	C2A-C3A	4.79	1.46	1.36
33	m9	201	CYC	CHA-C1A	4.79	1.39	1.35
33	LG	201	CYC	C3D-C2D	4.78	1.51	1.37
33	WG	201	CYC	C2A-C3A	4.78	1.46	1.36
33	VL	201	CYC	C2A-C3A	4.78	1.46	1.36
33	j3	201	CYC	C2A-C3A	4.78	1.46	1.36
33	gH	201	CYC	CHA-C1A	4.78	1.39	1.35
33	f5	201	CYC	C2A-C3A	4.78	1.46	1.36
33	NK	101	CYC	C3B-C2B	4.78	1.46	1.36
45	DE	401	PHO	C3B-C2B	4.78	1.47	1.40
33	9F	201	CYC	C2A-C3A	4.78	1.46	1.36
38	BD	621	SQD	O8-S	4.78	1.64	1.47
33	IG	201	CYC	CHB-C4A	4.77	1.51	1.40
33	IL	201	CYC	CHB-C4A	4.77	1.51	1.40
33	mC	201	CYC	CHA-C1A	4.77	1.39	1.35
33	f6	201	CYC	C2A-C3A	4.77	1.46	1.36
33	gJ	201	CYC	CHA-C1A	4.77	1.39	1.35
33	cF	201	CYC	C1C-NC	-4.77	1.31	1.37
33	O4	201	CYC	CHB-C1B	4.77	1.49	1.38
33	gA	201	CYC	CHA-C1A	4.76	1.39	1.35
33	jA	202	CYC	CHA-C1A	4.76	1.39	1.35
33	WL	201	CYC	C2A-C3A	4.76	1.46	1.36
33	g7	201	CYC	CHA-C1A	4.76	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	LL	201	CYC	C3D-C2D	4.76	1.51	1.37
33	g8	201	CYC	CHA-C1A	4.76	1.39	1.35
33	g9	201	CYC	CHA-C1A	4.76	1.39	1.35
38	B1	622	SQD	O8-S	4.76	1.64	1.47
45	dD	402	PHO	C3B-C2B	4.76	1.47	1.40
33	B4	1003	CYC	C2A-C3A	4.76	1.46	1.36
33	jC	202	CYC	CHA-C1A	4.76	1.39	1.35
33	mJ	201	CYC	CHA-C1A	4.76	1.39	1.35
33	eF	201	CYC	C3B-C2B	4.76	1.46	1.36
33	s4	201	CYC	C3B-C2B	4.75	1.46	1.36
33	OB	201	CYC	CHB-C1B	4.75	1.49	1.38
33	nK	201	CYC	CHB-C1B	4.75	1.49	1.38
33	m2	201	CYC	CHA-C1A	4.75	1.39	1.35
33	m6	201	CYC	CHA-C1A	4.75	1.39	1.35
33	cK	201	CYC	C1C-NC	-4.75	1.31	1.37
33	sB	201	CYC	C3B-C2B	4.75	1.46	1.36
33	nF	201	CYC	CHB-C1B	4.75	1.49	1.38
33	9K	201	CYC	C2A-C3A	4.75	1.46	1.36
33	eK	201	CYC	C3B-C2B	4.75	1.46	1.36
33	KK	201	CYC	C3B-C2B	4.74	1.46	1.36
33	CB	1002	CYC	C3B-C2B	4.74	1.46	1.36
33	Q4	201	CYC	CHB-C1B	4.74	1.49	1.38
33	LF	201	CYC	C3B-C2B	4.74	1.46	1.36
33	IL	201	CYC	C2A-C3A	4.74	1.46	1.36
33	mH	201	CYC	CHA-C1A	4.74	1.39	1.35
33	jI	202	CYC	CHA-C1A	4.74	1.39	1.35
33	KF	201	CYC	C3B-C2B	4.74	1.46	1.36
33	IG	201	CYC	C2A-C3A	4.74	1.46	1.36
33	m8	201	CYC	CHA-C1A	4.74	1.39	1.35
38	LE	102	SQD	O8-S	4.73	1.64	1.47
33	QB	201	CYC	CHB-C1B	4.73	1.49	1.38
33	j9	202	CYC	CHA-C1A	4.73	1.39	1.35
38	L1	102	SQD	O8-S	4.72	1.64	1.47
33	m3	201	CYC	CHA-C1A	4.72	1.39	1.35
33	BB	1003	CYC	C2A-C3A	4.72	1.46	1.36
33	C4	1002	CYC	C3B-C2B	4.72	1.46	1.36
33	BB	1002	CYC	C2A-C3A	4.72	1.46	1.36
33	CB	1003	CYC	C2A-C3A	4.72	1.46	1.36
33	B4	1002	CYC	C2A-C3A	4.71	1.46	1.36
38	LD	102	SQD	O8-S	4.71	1.64	1.47
33	BB	1003	CYC	CHB-C4A	4.71	1.51	1.40
33	y4	201	CYC	C3B-C2B	4.71	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	m5	201	CYC	CHA-C1A	4.71	1.39	1.35
33	g2	201	CYC	CHA-C1A	4.71	1.39	1.35
33	g6	201	CYC	CHA-C1A	4.71	1.39	1.35
33	m7	201	CYC	CHA-C1A	4.71	1.39	1.35
33	MG	201	CYC	C3B-C2B	4.71	1.46	1.36
33	yB	201	CYC	C1C-NC	-4.71	1.31	1.37
33	IG	201	CYC	C2C-C1C	-4.70	1.47	1.52
33	LK	201	CYC	C3B-C2B	4.70	1.46	1.36
33	j8	202	CYC	CHA-C1A	4.70	1.39	1.35
33	ML	201	CYC	C3B-C2B	4.70	1.46	1.36
33	jH	202	CYC	CHA-C1A	4.70	1.39	1.35
33	j2	202	CYC	CHA-C1A	4.69	1.39	1.35
33	C4	1003	CYC	C2A-C3A	4.69	1.46	1.36
33	B4	1001	CYC	C1C-NC	-4.69	1.31	1.37
33	7L	201	CYC	C3B-C2B	4.69	1.46	1.36
33	vB	201	CYC	C3B-C2B	4.69	1.46	1.36
33	v4	201	CYC	C3B-C2B	4.69	1.46	1.36
33	B4	1003	CYC	CHB-C4A	4.69	1.51	1.40
38	LD	101	SQD	O8-S	4.68	1.64	1.47
33	yB	201	CYC	C3B-C2B	4.68	1.46	1.36
33	7G	201	CYC	C3B-C2B	4.68	1.46	1.36
33	y4	201	CYC	C1C-NC	-4.68	1.31	1.37
33	5L	201	CYC	C2C-C1C	-4.68	1.47	1.52
33	JK	201	CYC	C2A-C3A	4.68	1.46	1.36
33	BB	1001	CYC	C1C-NC	-4.68	1.31	1.37
33	IL	201	CYC	C2C-C1C	-4.68	1.47	1.52
38	L1	101	SQD	O8-S	4.67	1.64	1.47
38	LE	101	SQD	O8-S	4.67	1.64	1.47
33	j5	202	CYC	CHA-C1A	4.66	1.39	1.35
33	NG	201	CYC	C2A-C3A	4.66	1.46	1.36
33	5L	201	CYC	C3B-C2B	4.66	1.46	1.36
33	5G	201	CYC	C2C-C1C	-4.66	1.47	1.52
33	j6	202	CYC	CHA-C1A	4.66	1.39	1.35
33	5G	201	CYC	C3B-C2B	4.66	1.46	1.36
33	2G	101	CYC	C2A-C3A	4.65	1.46	1.36
33	zB	201	CYC	CHB-C1B	4.65	1.49	1.38
33	JF	201	CYC	C2A-C3A	4.65	1.46	1.36
33	iJ	202	CYC	CHB-C1B	4.65	1.49	1.38
33	NL	201	CYC	C2A-C3A	4.64	1.46	1.36
33	VB	201	CYC	CHB-C1B	4.64	1.49	1.38
33	j7	202	CYC	CHA-C1A	4.64	1.39	1.35
33	6L	201	CYC	C2A-C3A	4.64	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	jJ	202	CYC	CHA-C1A	4.64	1.39	1.35
33	i5	202	CYC	CHB-C1B	4.64	1.49	1.38
33	C4	1003	CYC	CHB-C1B	4.64	1.49	1.38
33	z4	201	CYC	CHB-C1B	4.64	1.49	1.38
33	bF	201	CYC	C2A-C3A	4.64	1.46	1.36
33	mA	201	CYC	CHA-C1A	4.63	1.39	1.35
33	6G	201	CYC	C2A-C3A	4.63	1.46	1.36
33	bK	201	CYC	C2A-C3A	4.63	1.46	1.36
33	V4	201	CYC	CHB-C1B	4.63	1.49	1.38
33	B4	1002	CYC	CHB-C1B	4.62	1.49	1.38
33	RB	201	CYC	CHB-C4A	4.62	1.51	1.40
33	CB	1003	CYC	CHB-C1B	4.62	1.49	1.38
38	hE	103	SQD	O8-S	4.62	1.64	1.47
33	HG	201	CYC	C1C-NC	-4.62	1.31	1.37
33	9F	201	CYC	CHB-C1B	4.62	1.49	1.38
33	j3	202	CYC	CHA-C1A	4.62	1.39	1.35
38	h1	103	SQD	O8-S	4.61	1.63	1.47
33	ZF	201	CYC	C2A-C3A	4.61	1.46	1.36
33	2L	101	CYC	C2A-C3A	4.61	1.46	1.36
38	hD	103	SQD	O8-S	4.61	1.63	1.47
33	BB	1002	CYC	CHB-C1B	4.61	1.49	1.38
33	iA	202	CYC	CHB-C1B	4.61	1.49	1.38
33	iI	202	CYC	CHB-C1B	4.61	1.49	1.38
33	i3	202	CYC	CHB-C1B	4.61	1.49	1.38
33	iC	202	CYC	CHB-C1B	4.61	1.49	1.38
33	iH	202	CYC	CHB-C1B	4.61	1.49	1.38
33	9K	201	CYC	CHB-C1B	4.61	1.49	1.38
33	nF	201	CYC	C2A-C3A	4.61	1.46	1.36
33	5G	201	CYC	C1C-NC	-4.60	1.31	1.37
38	AE	407	SQD	O8-S	4.60	1.63	1.47
33	qB	201	CYC	C2A-C3A	4.60	1.46	1.36
33	R4	201	CYC	CHB-C4A	4.60	1.51	1.40
33	TG	201	CYC	C2A-C3A	4.60	1.46	1.36
33	q4	201	CYC	C2A-C3A	4.60	1.46	1.36
45	dE	402	PHO	C1A-C2A	4.60	1.57	1.51
33	TL	201	CYC	C2A-C3A	4.60	1.46	1.36
33	nK	201	CYC	C2A-C3A	4.60	1.46	1.36
45	dE	402	PHO	O2D-CGD	4.60	1.44	1.33
38	CD	501	SQD	O8-S	4.59	1.63	1.47
38	C1	501	SQD	O8-S	4.59	1.63	1.47
33	i2	202	CYC	CHB-C1B	4.59	1.48	1.38
33	i6	202	CYC	CHB-C1B	4.59	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	KF	201	CYC	CHB-C1B	4.59	1.48	1.38
33	i8	202	CYC	CHB-C1B	4.59	1.48	1.38
33	PL	201	CYC	C1C-NC	-4.59	1.31	1.37
38	AD	407	SQD	O8-S	4.59	1.63	1.47
45	dD	402	PHO	O2D-CGD	4.58	1.44	1.33
33	i7	202	CYC	CHB-C1B	4.58	1.48	1.38
38	A1	407	SQD	O8-S	4.58	1.63	1.47
33	ZK	201	CYC	C2A-C3A	4.58	1.46	1.36
33	KK	201	CYC	CHB-C1B	4.58	1.48	1.38
33	XF	201	CYC	C2A-C3A	4.58	1.46	1.36
33	fF	201	CYC	C1C-NC	-4.58	1.31	1.37
38	CE	501	SQD	O8-S	4.58	1.63	1.47
33	HL	201	CYC	C1C-NC	-4.58	1.31	1.37
45	d1	402	PHO	O2D-CGD	4.57	1.44	1.33
33	c9	201	CYC	CHB-C1B	4.57	1.48	1.38
33	aF	201	CYC	C1C-NC	-4.57	1.31	1.37
33	XK	201	CYC	C2A-C3A	4.57	1.46	1.36
33	B4	1004	CYC	C2A-C3A	4.57	1.46	1.36
33	i9	202	CYC	CHB-C1B	4.57	1.48	1.38
33	aK	201	CYC	C1C-NC	-4.56	1.31	1.37
33	nF	201	CYC	C1C-NC	-4.56	1.31	1.37
33	5L	201	CYC	C1C-NC	-4.56	1.31	1.37
33	BB	1004	CYC	C2A-C3A	4.56	1.46	1.36
33	ZK	201	CYC	CHB-C1B	4.56	1.48	1.38
33	cA	201	CYC	CHB-C1B	4.56	1.48	1.38
33	ZF	201	CYC	CHB-C1B	4.55	1.48	1.38
33	c3	201	CYC	CHB-C1B	4.55	1.48	1.38
33	cC	201	CYC	CHB-C1B	4.55	1.48	1.38
33	c2	201	CYC	CHB-C1B	4.55	1.48	1.38
33	c5	201	CYC	CHB-C1B	4.55	1.48	1.38
33	cJ	201	CYC	CHB-C1B	4.55	1.48	1.38
45	DD	403	PHO	O2D-CGD	4.55	1.44	1.33
33	C4	1002	CYC	C2A-C3A	4.55	1.46	1.36
33	BI	301	CYC	CHB-C1B	4.55	1.48	1.38
33	c7	201	CYC	CHB-C1B	4.54	1.48	1.38
33	PG	201	CYC	C1C-NC	-4.54	1.31	1.37
33	B4	1003	CYC	C1C-NC	-4.54	1.31	1.37
33	IG	201	CYC	C1C-NC	-4.54	1.31	1.37
33	fK	201	CYC	C1C-NC	-4.54	1.31	1.37
33	CB	1002	CYC	C2A-C3A	4.54	1.46	1.36
33	Z4	201	CYC	CHB-C1B	4.54	1.48	1.38
33	BB	1004	CYC	CHB-C1B	4.54	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	w4	201	CYC	CHB-C1B	4.54	1.48	1.38
33	ZB	201	CYC	CHB-C1B	4.54	1.48	1.38
36	bD	615	CLA	C1D-ND	4.53	1.43	1.37
45	D1	402	PHO	O2D-CGD	4.53	1.44	1.33
33	cH	201	CYC	CHB-C1B	4.53	1.48	1.38
33	bK	201	CYC	C1C-NC	-4.53	1.31	1.37
33	k2	201	CYC	CHB-C1B	4.53	1.48	1.38
33	B6	301	CYC	CHB-C1B	4.53	1.48	1.38
38	cE	502	SQD	O8-S	4.53	1.63	1.47
33	aK	201	CYC	C2A-C3A	4.53	1.46	1.36
38	cD	502	SQD	O8-S	4.53	1.63	1.47
33	nK	201	CYC	C1C-NC	-4.53	1.31	1.37
33	vB	201	CYC	C2C-C1C	-4.53	1.48	1.52
33	eJ	201	CYC	CHB-C1B	4.53	1.48	1.38
45	DE	403	PHO	O2D-CGD	4.53	1.44	1.33
33	CB	1001	CYC	CHB-C1B	4.53	1.48	1.38
33	BC	301	CYC	CHB-C1B	4.53	1.48	1.38
33	KF	201	CYC	C2A-C3A	4.52	1.46	1.36
33	kA	201	CYC	CHB-C1B	4.52	1.48	1.38
33	BB	1003	CYC	C1C-NC	-4.52	1.31	1.37
33	7G	201	CYC	C1C-NC	-4.52	1.31	1.37
33	c8	201	CYC	CHB-C1B	4.52	1.48	1.38
33	IK	201	CYC	C2A-C3A	4.52	1.46	1.36
33	e3	201	CYC	CHB-C1B	4.52	1.48	1.38
33	cI	201	CYC	CHB-C1B	4.52	1.48	1.38
33	eC	201	CYC	CHB-C1B	4.52	1.48	1.38
33	WL	201	CYC	C1C-NC	-4.52	1.31	1.37
33	eA	201	CYC	CHB-C1B	4.52	1.48	1.38
44	cD	516	DGD	O2G-C1B	4.52	1.47	1.34
33	C4	1001	CYC	CHB-C1B	4.52	1.48	1.38
33	v4	201	CYC	C2C-C1C	-4.52	1.48	1.52
45	aE	412	PHO	OBD-CAD	4.52	1.28	1.22
33	bF	201	CYC	C1C-NC	-4.52	1.31	1.37
33	BA	301	CYC	CHB-C1B	4.52	1.48	1.38
33	WG	201	CYC	C1C-NC	-4.52	1.31	1.37
33	B4	1004	CYC	CHB-C1B	4.52	1.48	1.38
33	jF	201	CYC	C1C-NC	-4.52	1.31	1.37
33	c6	201	CYC	CHB-C1B	4.52	1.48	1.38
33	k7	201	CYC	CHB-C1B	4.51	1.48	1.38
33	B3	301	CYC	CHB-C1B	4.51	1.48	1.38
33	gJ	202	CYC	CHB-C1B	4.51	1.48	1.38
33	k5	201	CYC	CHB-C1B	4.51	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	IL	201	CYC	C1C-NC	-4.51	1.31	1.37
33	wB	201	CYC	CHB-C1B	4.51	1.48	1.38
33	kH	201	CYC	CHB-C1B	4.51	1.48	1.38
33	gH	202	CYC	CHB-C1B	4.51	1.48	1.38
38	c1	501	SQD	O8-S	4.51	1.63	1.47
33	k6	201	CYC	CHB-C1B	4.51	1.48	1.38
33	kI	201	CYC	CHB-C1B	4.51	1.48	1.38
33	aF	201	CYC	C2A-C3A	4.51	1.46	1.36
33	B7	301	CYC	CHB-C1B	4.50	1.48	1.38
45	d1	402	PHO	C14-C13	-4.50	1.38	1.52
33	7L	201	CYC	C1C-NC	-4.50	1.31	1.37
33	eH	201	CYC	CHB-C1B	4.50	1.48	1.38
33	kC	201	CYC	CHB-C1B	4.50	1.48	1.38
33	KK	201	CYC	C2A-C3A	4.50	1.46	1.36
44	c1	516	DGD	O2G-C1B	4.50	1.47	1.34
44	cE	516	DGD	O2G-C1B	4.50	1.47	1.34
33	eI	201	CYC	CHB-C1B	4.50	1.48	1.38
33	B9	301	CYC	CHB-C1B	4.50	1.48	1.38
33	g8	202	CYC	CHB-C1B	4.50	1.48	1.38
33	k9	201	CYC	CHB-C1B	4.50	1.48	1.38
33	kJ	201	CYC	CHB-C1B	4.50	1.48	1.38
33	IF	201	CYC	C2A-C3A	4.50	1.46	1.36
45	d1	402	PHO	C3B-C2B	4.49	1.46	1.40
33	e5	201	CYC	CHB-C1B	4.49	1.48	1.38
33	e2	201	CYC	CHB-C1B	4.49	1.48	1.38
33	k3	201	CYC	CHB-C1B	4.49	1.48	1.38
33	e7	201	CYC	CHB-C1B	4.49	1.48	1.38
33	e9	201	CYC	CHB-C1B	4.49	1.48	1.38
33	VB	201	CYC	C1C-NC	-4.49	1.31	1.37
45	a1	413	PHO	OBD-CAD	4.49	1.28	1.22
33	dJ	201	CYC	CHB-C1B	4.49	1.48	1.38
36	bE	615	CLA	C1D-ND	4.49	1.43	1.37
33	cK	201	CYC	C3B-C2B	4.49	1.46	1.36
33	e6	201	CYC	CHB-C1B	4.49	1.48	1.38
33	e8	201	CYC	CHB-C1B	4.49	1.48	1.38
33	XB	201	CYC	C1C-NC	-4.49	1.31	1.37
33	oB	201	CYC	C2A-C3A	4.48	1.46	1.36
33	hK	201	CYC	C2A-C3A	4.48	1.46	1.36
33	o4	201	CYC	C2A-C3A	4.48	1.46	1.36
33	eK	201	CYC	C1C-NC	-4.48	1.31	1.37
33	dI	201	CYC	CHB-C1B	4.48	1.48	1.38
33	cF	201	CYC	C3B-C2B	4.48	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	B4	1004	CYC	C2C-C1C	-4.48	1.48	1.52
33	jK	201	CYC	C1C-NC	-4.48	1.31	1.37
33	rB	201	CYC	C2A-C3A	4.48	1.46	1.36
45	A1	412	PHO	OBD-CAD	4.48	1.28	1.22
33	rB	201	CYC	C1C-NC	-4.47	1.31	1.37
33	g5	202	CYC	CHB-C1B	4.47	1.48	1.38
33	d6	201	CYC	CHB-C1B	4.47	1.48	1.38
33	r4	201	CYC	C2A-C3A	4.47	1.46	1.36
33	k8	201	CYC	CHB-C1B	4.47	1.48	1.38
33	v4	201	CYC	C2A-C3A	4.47	1.46	1.36
33	BB	1001	CYC	C2C-C1C	-4.47	1.48	1.52
33	B2	301	CYC	CHB-C1B	4.47	1.48	1.38
33	OL	201	CYC	C2C-C1C	-4.46	1.48	1.52
33	LK	201	CYC	CHB-C1B	4.46	1.48	1.38
33	LF	201	CYC	CHB-C1B	4.46	1.48	1.38
33	hF	201	CYC	C2A-C3A	4.46	1.46	1.36
33	V4	201	CYC	C1C-NC	-4.46	1.31	1.37
33	X4	201	CYC	CHB-C1B	4.45	1.48	1.38
33	B4	1001	CYC	C2C-C1C	-4.45	1.48	1.52
33	dF	201	CYC	C2A-C3A	4.45	1.46	1.36
33	bK	201	CYC	CHB-C1B	4.45	1.48	1.38
33	dA	201	CYC	CHB-C1B	4.45	1.48	1.38
33	jF	201	CYC	C2A-C3A	4.45	1.46	1.36
33	d9	201	CYC	CHB-C1B	4.45	1.48	1.38
36	BE	614	CLA	C1D-ND	4.45	1.43	1.37
33	X4	201	CYC	C1C-NC	-4.45	1.31	1.37
33	dH	201	CYC	CHB-C1B	4.45	1.48	1.38
33	BB	1004	CYC	C2C-C1C	-4.44	1.48	1.52
45	DE	401	PHO	OBD-CAD	4.44	1.28	1.22
33	dC	201	CYC	CHB-C1B	4.44	1.48	1.38
33	d2	201	CYC	CHB-C1B	4.44	1.48	1.38
33	dK	201	CYC	C2A-C3A	4.44	1.46	1.36
33	a4	201	CYC	CHB-C4A	4.44	1.50	1.40
33	d8	201	CYC	CHB-C1B	4.44	1.48	1.38
33	vB	201	CYC	C2A-C3A	4.44	1.46	1.36
33	LL	201	CYC	C1C-NC	-4.44	1.31	1.37
33	eF	201	CYC	C1C-NC	-4.44	1.31	1.37
33	aB	201	CYC	CHB-C4A	4.44	1.50	1.40
33	TG	201	CYC	CHB-C1B	4.44	1.48	1.38
33	VG	201	CYC	CHB-C1B	4.44	1.48	1.38
33	jK	201	CYC	C2A-C3A	4.43	1.46	1.36
36	b1	615	CLA	C1D-ND	4.43	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	d5	201	CYC	CHB-C1B	4.43	1.48	1.38
33	h6	201	CYC	CHB-C1B	4.43	1.48	1.38
33	lC	201	CYC	CHB-C1B	4.43	1.48	1.38
36	BD	614	CLA	C1D-ND	4.43	1.43	1.37
39	jE	102	LMG	O8-C28	4.43	1.46	1.33
33	b3	201	CYC	CHB-C1B	4.43	1.48	1.38
33	bI	201	CYC	CHB-C1B	4.43	1.48	1.38
39	J1	102	LMG	O8-C28	4.43	1.46	1.33
33	r4	201	CYC	C1C-NC	-4.43	1.31	1.37
39	jD	102	LMG	O8-C28	4.43	1.46	1.33
33	d7	201	CYC	CHB-C1B	4.42	1.48	1.38
39	j1	102	LMG	O8-C28	4.42	1.46	1.33
44	CD	517	DGD	O2G-C1B	4.42	1.46	1.34
33	XB	201	CYC	CHB-C1B	4.42	1.48	1.38
33	bF	201	CYC	CHB-C1B	4.42	1.48	1.38
33	l3	201	CYC	CHB-C1B	4.42	1.48	1.38
33	XF	201	CYC	CHB-C1B	4.42	1.48	1.38
33	h3	201	CYC	CHB-C1B	4.42	1.48	1.38
45	DD	401	PHO	OBD-CAD	4.42	1.28	1.22
33	gF	201	CYC	C3B-C2B	4.42	1.46	1.36
33	h7	201	CYC	CHB-C1B	4.42	1.48	1.38
33	gK	201	CYC	C3B-C2B	4.42	1.46	1.36
33	l8	201	CYC	CHB-C1B	4.42	1.48	1.38
33	TL	201	CYC	CHB-C1B	4.42	1.48	1.38
33	hC	201	CYC	CHB-C1B	4.42	1.48	1.38
33	b2	201	CYC	CHB-C1B	4.42	1.48	1.38
33	qB	201	CYC	CHB-C1B	4.42	1.48	1.38
33	YF	201	CYC	C2A-C3A	4.42	1.46	1.36
33	l6	201	CYC	CHB-C1B	4.42	1.48	1.38
33	jK	201	CYC	CHB-C1B	4.42	1.48	1.38
33	VL	201	CYC	CHB-C1B	4.42	1.48	1.38
33	d3	201	CYC	CHB-C1B	4.42	1.48	1.38
33	OG	201	CYC	C2C-C1C	-4.42	1.48	1.52
33	h2	201	CYC	CHB-C1B	4.42	1.48	1.38
44	C1	517	DGD	O2G-C1B	4.41	1.46	1.34
38	BD	621	SQD	O47-C7	4.41	1.46	1.34
38	B1	622	SQD	O47-C7	4.41	1.46	1.34
33	h8	201	CYC	CHB-C1B	4.41	1.48	1.38
33	v4	201	CYC	C1C-NC	-4.41	1.31	1.37
33	l2	201	CYC	CHB-C1B	4.41	1.48	1.38
33	jA	201	CYC	CHB-C1B	4.41	1.48	1.38
39	JD	102	LMG	O8-C28	4.41	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	jF	201	CYC	CHB-C1B	4.41	1.48	1.38
33	hH	201	CYC	CHB-C1B	4.41	1.48	1.38
38	BE	621	SQD	O47-C7	4.41	1.46	1.34
33	q4	201	CYC	CHB-C1B	4.41	1.48	1.38
33	b5	201	CYC	CHB-C1B	4.41	1.48	1.38
33	hJ	201	CYC	CHB-C1B	4.41	1.48	1.38
33	LG	201	CYC	C1C-NC	-4.41	1.31	1.37
33	KK	201	CYC	C1C-NC	-4.41	1.31	1.37
33	lA	201	CYC	CHB-C1B	4.41	1.48	1.38
33	hI	201	CYC	CHB-C1B	4.40	1.48	1.38
44	CE	517	DGD	O2G-C1B	4.40	1.46	1.34
33	lH	201	CYC	CHB-C1B	4.40	1.48	1.38
33	hA	201	CYC	CHB-C1B	4.40	1.48	1.38
33	HL	201	CYC	CHB-C1B	4.40	1.48	1.38
33	j7	201	CYC	CHB-C1B	4.40	1.48	1.38
33	eK	201	CYC	CHB-C4A	4.40	1.50	1.40
33	b8	201	CYC	CHB-C1B	4.40	1.48	1.38
33	bJ	201	CYC	CHB-C1B	4.40	1.48	1.38
33	XK	201	CYC	CHB-C1B	4.40	1.48	1.38
33	b7	201	CYC	CHB-C1B	4.40	1.48	1.38
33	j6	201	CYC	CHB-C1B	4.40	1.48	1.38
33	f8	201	CYC	CHB-C1B	4.40	1.48	1.38
39	JE	102	LMG	O8-C28	4.40	1.46	1.33
33	j9	201	CYC	CHB-C1B	4.40	1.48	1.38
33	HG	201	CYC	CHB-C1B	4.40	1.48	1.38
33	lI	201	CYC	CHB-C1B	4.40	1.48	1.38
33	bH	201	CYC	CHB-C1B	4.39	1.48	1.38
33	jC	201	CYC	CHB-C1B	4.39	1.48	1.38
33	fC	201	CYC	CHB-C1B	4.39	1.48	1.38
33	l5	201	CYC	CHB-C1B	4.39	1.48	1.38
33	l7	201	CYC	CHB-C1B	4.39	1.48	1.38
33	h9	201	CYC	CHB-C1B	4.39	1.48	1.38
45	DE	403	PHO	CAA-C2A	-4.39	1.44	1.54
33	h5	201	CYC	CHB-C1B	4.39	1.48	1.38
33	LK	201	CYC	C1C-NC	-4.39	1.31	1.37
33	OG	201	CYC	C1C-NC	-4.39	1.31	1.37
33	QG	201	CYC	C3B-C2B	4.39	1.46	1.36
33	mF	201	CYC	CHB-C1B	4.39	1.48	1.38
33	jH	201	CYC	CHB-C1B	4.39	1.48	1.38
33	l9	201	CYC	CHB-C1B	4.39	1.48	1.38
33	jI	201	CYC	CHB-C1B	4.38	1.48	1.38
36	B1	614	CLA	C1D-ND	4.38	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	bA	201	CYC	CHB-C1B	4.38	1.48	1.38
33	f2	201	CYC	CHB-C1B	4.38	1.48	1.38
45	aD	412	PHO	OBD-CAD	4.38	1.28	1.22
38	dD	414	SQD	O8-S	4.38	1.63	1.47
33	b6	201	CYC	CHB-C1B	4.38	1.48	1.38
33	b9	201	CYC	CHB-C1B	4.38	1.48	1.38
33	lJ	201	CYC	CHB-C1B	4.38	1.48	1.38
33	mK	201	CYC	CHB-C1B	4.38	1.48	1.38
33	j8	201	CYC	CHB-C1B	4.38	1.48	1.38
33	YK	201	CYC	C2A-C3A	4.38	1.46	1.36
38	dE	414	SQD	O8-S	4.38	1.63	1.47
38	d1	414	SQD	O8-S	4.38	1.63	1.47
33	bC	201	CYC	CHB-C1B	4.38	1.48	1.38
33	jJ	201	CYC	CHB-C1B	4.38	1.48	1.38
33	C4	1002	CYC	C1C-NC	-4.37	1.31	1.37
33	j3	201	CYC	CHB-C1B	4.37	1.48	1.38
33	dK	201	CYC	C1C-NC	-4.37	1.31	1.37
33	j5	201	CYC	CHB-C1B	4.37	1.48	1.38
33	eF	201	CYC	CHB-C4A	4.37	1.50	1.40
33	fA	201	CYC	CHB-C1B	4.37	1.48	1.38
33	fH	201	CYC	CHB-C1B	4.37	1.48	1.38
38	DD	414	SQD	O8-S	4.37	1.63	1.47
33	f7	201	CYC	CHB-C1B	4.37	1.48	1.38
33	LF	201	CYC	C1C-NC	-4.37	1.31	1.37
33	vB	201	CYC	C1C-NC	-4.37	1.31	1.37
38	D1	413	SQD	O8-S	4.37	1.63	1.47
33	KF	201	CYC	C1C-NC	-4.37	1.31	1.37
33	j2	201	CYC	CHB-C1B	4.37	1.48	1.38
33	QL	201	CYC	C3B-C2B	4.36	1.46	1.36
33	f3	201	CYC	CHB-C1B	4.36	1.48	1.38
33	MG	201	CYC	C1C-NC	-4.36	1.32	1.37
33	cK	201	CYC	C2A-C3A	4.36	1.46	1.36
33	fI	201	CYC	CHB-C1B	4.36	1.48	1.38
33	f6	201	CYC	CHB-C1B	4.36	1.48	1.38
38	DE	414	SQD	O8-S	4.36	1.63	1.47
33	fJ	201	CYC	CHB-C1B	4.36	1.48	1.38
33	cF	201	CYC	C2A-C3A	4.36	1.46	1.36
33	9K	201	CYC	C1C-NC	-4.35	1.32	1.37
33	OL	201	CYC	C1C-NC	-4.35	1.32	1.37
33	RL	201	CYC	CHB-C1B	4.35	1.48	1.38
33	c2	201	CYC	C1C-NC	-4.35	1.32	1.37
33	cC	201	CYC	C1C-NC	-4.35	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	t1	101	LMG	O8-C28	4.35	1.46	1.33
33	f9	201	CYC	CHB-C1B	4.35	1.48	1.38
33	B4	1001	CYC	C2A-C3A	4.35	1.46	1.36
39	tE	101	LMG	O8-C28	4.35	1.46	1.33
33	BB	1001	CYC	C2A-C3A	4.34	1.46	1.36
33	BB	1001	CYC	C3B-C2B	4.34	1.46	1.36
33	ML	201	CYC	C1C-NC	-4.34	1.32	1.37
33	B3	301	CYC	C1C-NC	-4.34	1.32	1.37
33	dF	201	CYC	C1C-NC	-4.34	1.32	1.37
33	c3	201	CYC	C1C-NC	-4.34	1.32	1.37
33	RG	201	CYC	CHB-C1B	4.34	1.48	1.38
33	f5	201	CYC	CHB-C1B	4.34	1.48	1.38
33	v4	201	CYC	CHB-C1B	4.34	1.48	1.38
39	mE	101	LMG	O8-C28	4.34	1.46	1.33
33	c9	201	CYC	C1C-NC	-4.34	1.32	1.37
33	CB	1002	CYC	C1C-NC	-4.34	1.32	1.37
33	GL	201	CYC	C2A-C3A	4.33	1.45	1.36
39	TD	101	LMG	O8-C28	4.33	1.46	1.33
33	vB	201	CYC	CHB-C1B	4.33	1.48	1.38
33	4L	201	CYC	CHB-C1B	4.33	1.48	1.38
39	T1	101	LMG	O8-C28	4.33	1.46	1.33
33	7G	201	CYC	CHB-C4A	4.33	1.50	1.40
33	e7	201	CYC	C1C-NC	-4.33	1.32	1.37
33	GG	201	CYC	C2A-C3A	4.33	1.45	1.36
39	tD	101	LMG	O8-C28	4.33	1.46	1.33
45	d1	402	PHO	OBD-CAD	4.33	1.28	1.22
33	6L	201	CYC	CHB-C1B	4.33	1.48	1.38
33	BC	301	CYC	C1C-NC	-4.33	1.32	1.37
33	4G	201	CYC	CHB-C1B	4.33	1.48	1.38
33	cH	201	CYC	C1C-NC	-4.33	1.32	1.37
33	B4	1001	CYC	C3B-C2B	4.33	1.45	1.36
39	d1	411	LMG	O7-C10	4.32	1.46	1.34
39	dD	411	LMG	O7-C10	4.32	1.46	1.34
33	c6	201	CYC	C1C-NC	-4.32	1.32	1.37
33	k6	201	CYC	C1C-NC	-4.32	1.32	1.37
33	cI	201	CYC	C1C-NC	-4.32	1.32	1.37
33	g8	202	CYC	C1C-NC	-4.32	1.32	1.37
33	7L	201	CYC	CHB-C4A	4.32	1.50	1.40
39	m1	101	LMG	O8-C28	4.32	1.46	1.33
39	mD	101	LMG	O8-C28	4.32	1.46	1.33
33	6G	201	CYC	CHB-C1B	4.32	1.48	1.38
33	gJ	202	CYC	C1C-NC	-4.32	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	dE	411	LMG	O7-C10	4.32	1.46	1.34
33	k8	201	CYC	C1C-NC	-4.31	1.32	1.37
33	cJ	201	CYC	C1C-NC	-4.31	1.32	1.37
33	B2	301	CYC	C1C-NC	-4.31	1.32	1.37
39	TE	101	LMG	O8-C28	4.31	1.45	1.33
33	S4	201	CYC	OB-C4B	4.31	1.31	1.23
33	e6	201	CYC	C1C-NC	-4.31	1.32	1.37
33	c8	201	CYC	C1C-NC	-4.31	1.32	1.37
33	gH	202	CYC	C1C-NC	-4.31	1.32	1.37
33	kI	201	CYC	C1C-NC	-4.31	1.32	1.37
33	YF	201	CYC	C1C-NC	-4.30	1.32	1.37
33	cA	201	CYC	C1C-NC	-4.30	1.32	1.37
39	ME	101	LMG	O8-C28	4.30	1.45	1.33
33	9F	201	CYC	C1C-NC	-4.30	1.32	1.37
33	e8	201	CYC	C1C-NC	-4.30	1.32	1.37
33	k7	201	CYC	C1C-NC	-4.30	1.32	1.37
33	NF	101	CYC	C2A-C3A	4.30	1.45	1.36
33	c5	201	CYC	C1C-NC	-4.30	1.32	1.37
39	M1	101	LMG	O8-C28	4.30	1.45	1.33
39	MD	101	LMG	O8-C28	4.30	1.45	1.33
33	B7	301	CYC	C1C-NC	-4.30	1.32	1.37
33	eC	201	CYC	C1C-NC	-4.30	1.32	1.37
33	kC	201	CYC	C1C-NC	-4.30	1.32	1.37
33	e5	201	CYC	C1C-NC	-4.30	1.32	1.37
33	eJ	201	CYC	C1C-NC	-4.30	1.32	1.37
33	C4	1001	CYC	C1C-NC	-4.29	1.32	1.37
33	JK	201	CYC	C3D-C2D	4.29	1.50	1.37
39	tE	101	LMG	O7-C10	4.29	1.46	1.34
39	DD	411	LMG	O7-C10	4.29	1.46	1.34
33	SB	201	CYC	OB-C4B	4.29	1.31	1.23
39	DE	411	LMG	O7-C10	4.29	1.46	1.34
39	D1	410	LMG	O7-C10	4.29	1.46	1.34
33	k9	201	CYC	C1C-NC	-4.29	1.32	1.37
33	eH	201	CYC	C1C-NC	-4.29	1.32	1.37
33	k2	201	CYC	C1C-NC	-4.29	1.32	1.37
33	NK	101	CYC	C2A-C3A	4.29	1.45	1.36
33	eA	201	CYC	C1C-NC	-4.29	1.32	1.37
39	tD	101	LMG	O7-C10	4.29	1.46	1.34
33	GL	201	CYC	C1C-NC	-4.28	1.32	1.37
45	DD	403	PHO	CBD-CGD	-4.28	1.46	1.52
39	BE	618	LMG	O7-C10	4.28	1.46	1.34
33	2G	101	CYC	CHB-C4A	4.28	1.50	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	g5	202	CYC	C1C-NC	-4.28	1.32	1.37
33	B9	301	CYC	C1C-NC	-4.28	1.32	1.37
39	B1	618	LMG	O7-C10	4.28	1.46	1.34
39	TE	101	LMG	O7-C10	4.28	1.46	1.34
33	c7	201	CYC	C1C-NC	-4.28	1.32	1.37
33	o4	201	CYC	CHB-C4A	4.28	1.50	1.40
33	JF	201	CYC	C3D-C2D	4.27	1.50	1.37
33	kJ	201	CYC	C1C-NC	-4.27	1.32	1.37
39	T1	101	LMG	O7-C10	4.27	1.46	1.34
39	bE	619	LMG	O7-C10	4.27	1.46	1.34
33	kF	201	CYC	C2C-C1C	-4.27	1.48	1.52
33	CB	1001	CYC	C1C-NC	-4.27	1.32	1.37
33	kH	201	CYC	C1C-NC	-4.27	1.32	1.37
33	GL	201	CYC	CHB-C1B	4.27	1.48	1.38
33	P4	201	CYC	CHB-C1B	4.27	1.48	1.38
33	2L	101	CYC	CHB-C4A	4.27	1.50	1.40
33	BA	301	CYC	C1C-NC	-4.27	1.32	1.37
33	BI	301	CYC	C1C-NC	-4.27	1.32	1.37
33	e3	201	CYC	C1C-NC	-4.27	1.32	1.37
33	aF	201	CYC	CHB-C1B	4.27	1.48	1.38
39	TD	101	LMG	O7-C10	4.27	1.46	1.34
33	b9	201	CYC	C1C-NC	-4.27	1.32	1.37
33	e9	201	CYC	C1C-NC	-4.27	1.32	1.37
33	eI	201	CYC	C1C-NC	-4.27	1.32	1.37
33	hK	201	CYC	C1C-NC	-4.27	1.32	1.37
33	k5	201	CYC	C1C-NC	-4.27	1.32	1.37
33	kK	201	CYC	C2C-C1C	-4.27	1.48	1.52
44	cE	517	DGD	O1G-C1A	4.27	1.45	1.33
44	h1	104	DGD	O1G-C1A	4.26	1.45	1.33
44	hD	104	DGD	O1G-C1A	4.26	1.45	1.33
39	t1	101	LMG	O7-C10	4.26	1.46	1.34
45	dD	402	PHO	OBD-CAD	4.26	1.28	1.22
33	bI	201	CYC	C1C-NC	-4.26	1.32	1.37
33	k3	201	CYC	C1C-NC	-4.26	1.32	1.37
33	PB	201	CYC	CHB-C1B	4.26	1.48	1.38
33	YK	201	CYC	C1C-NC	-4.26	1.32	1.37
33	w4	201	CYC	C1C-NC	-4.26	1.32	1.37
33	B6	301	CYC	C1C-NC	-4.26	1.32	1.37
39	BD	618	LMG	O7-C10	4.26	1.46	1.34
39	bD	619	LMG	O7-C10	4.26	1.46	1.34
33	R4	201	CYC	C2A-C3A	4.26	1.45	1.36
33	GG	201	CYC	CHB-C1B	4.25	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	PB	201	CYC	C1C-NC	-4.25	1.32	1.37
33	aK	201	CYC	CHB-C1B	4.25	1.48	1.38
38	B1	622	SQD	O48-C23	4.25	1.45	1.33
45	dE	402	PHO	OBD-CAD	4.25	1.28	1.22
33	jI	201	CYC	C1C-NC	-4.25	1.32	1.37
42	BE	620	LHG	O8-C23	4.25	1.45	1.33
33	kA	201	CYC	C1C-NC	-4.25	1.32	1.37
33	W4	201	CYC	CHB-C1B	4.24	1.48	1.38
33	b8	201	CYC	C1C-NC	-4.24	1.32	1.37
33	WB	201	CYC	CHB-C1B	4.24	1.48	1.38
44	cD	517	DGD	O1G-C1A	4.24	1.45	1.33
33	GG	201	CYC	C1C-NC	-4.24	1.32	1.37
33	P4	201	CYC	C1C-NC	-4.24	1.32	1.37
33	RB	201	CYC	C2A-C3A	4.24	1.45	1.36
33	oB	201	CYC	CHB-C4A	4.24	1.50	1.40
33	e2	201	CYC	C1C-NC	-4.24	1.32	1.37
33	hF	201	CYC	C1C-NC	-4.24	1.32	1.37
39	jD	102	LMG	O7-C10	4.24	1.46	1.34
38	DE	414	SQD	O48-C23	4.24	1.45	1.33
33	b5	201	CYC	C1C-NC	-4.24	1.32	1.37
38	BE	621	SQD	O48-C23	4.23	1.45	1.33
45	D1	402	PHO	CBD-CGD	-4.23	1.46	1.52
38	D1	413	SQD	O48-C23	4.23	1.45	1.33
44	hE	104	DGD	O1G-C1A	4.23	1.45	1.33
39	d1	411	LMG	O8-C28	4.23	1.45	1.33
42	BD	620	LHG	O8-C23	4.23	1.45	1.33
38	dD	414	SQD	O48-C23	4.23	1.45	1.33
42	B1	621	LHG	O8-C23	4.23	1.45	1.33
33	bJ	201	CYC	C1C-NC	-4.23	1.32	1.37
38	BD	621	SQD	O48-C23	4.23	1.45	1.33
45	dD	402	PHO	C3A-C2A	-4.23	1.50	1.54
33	j2	201	CYC	C1C-NC	-4.23	1.32	1.37
33	b2	201	CYC	C1C-NC	-4.22	1.32	1.37
33	jJ	201	CYC	C1C-NC	-4.22	1.32	1.37
38	dE	414	SQD	O48-C23	4.22	1.45	1.33
38	DD	414	SQD	O48-C23	4.22	1.45	1.33
33	bA	201	CYC	C1C-NC	-4.22	1.32	1.37
39	b1	619	LMG	O7-C10	4.22	1.46	1.34
39	CD	519	LMG	O8-C28	4.22	1.45	1.33
39	dD	411	LMG	O8-C28	4.22	1.45	1.33
33	TG	201	CYC	C1C-NC	-4.22	1.32	1.37
39	jE	102	LMG	O7-C10	4.22	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	JG	201	CYC	C1C-NC	-4.22	1.32	1.37
33	bH	201	CYC	C1C-NC	-4.22	1.32	1.37
42	l1	101	LHG	O8-C23	4.22	1.45	1.33
33	b3	201	CYC	C1C-NC	-4.22	1.32	1.37
45	DD	403	PHO	C3B-C2B	4.21	1.46	1.40
38	d1	414	SQD	O48-C23	4.21	1.45	1.33
39	CE	519	LMG	O8-C28	4.21	1.45	1.33
44	c1	517	DGD	O1G-C1A	4.21	1.45	1.33
33	jA	201	CYC	C1C-NC	-4.21	1.32	1.37
39	dE	411	LMG	O8-C28	4.21	1.45	1.33
39	DE	411	LMG	O8-C28	4.21	1.45	1.33
39	D1	410	LMG	O8-C28	4.21	1.45	1.33
39	CE	502	LMG	O7-C10	4.21	1.46	1.34
33	HL	201	CYC	C3B-C2B	4.20	1.45	1.36
42	eE	101	LHG	O8-C23	4.20	1.45	1.33
39	C1	519	LMG	O8-C28	4.20	1.45	1.33
39	j1	102	LMG	O7-C10	4.20	1.46	1.34
33	HG	201	CYC	C3B-C2B	4.20	1.45	1.36
39	DD	411	LMG	O8-C28	4.20	1.45	1.33
33	2L	101	CYC	CHB-C1B	4.20	1.48	1.38
33	b6	201	CYC	C1C-NC	-4.20	1.32	1.37
33	j9	201	CYC	C1C-NC	-4.20	1.32	1.37
33	oB	201	CYC	C1C-NC	-4.20	1.32	1.37
33	NG	201	CYC	CHB-C1B	4.20	1.48	1.38
44	HE	103	DGD	O1G-C1A	4.20	1.45	1.33
33	o4	201	CYC	C1C-NC	-4.20	1.32	1.37
42	eD	101	LHG	O8-C23	4.20	1.45	1.33
42	lE	101	LHG	O8-C23	4.20	1.45	1.33
44	H1	103	DGD	O1G-C1A	4.20	1.45	1.33
33	fF	201	CYC	CHB-C1B	4.20	1.48	1.38
42	e1	101	LHG	O8-C23	4.19	1.45	1.33
39	CD	502	LMG	O7-C10	4.19	1.46	1.34
39	AE	408	LMG	O8-C28	4.19	1.45	1.33
33	bC	201	CYC	C1C-NC	-4.19	1.32	1.37
33	QL	201	CYC	C1C-NC	-4.19	1.32	1.37
33	eF	201	CYC	C2C-C1C	-4.19	1.48	1.52
33	TL	201	CYC	C1C-NC	-4.19	1.32	1.37
33	i5	202	CYC	C1C-NC	-4.19	1.32	1.37
44	h1	104	DGD	O2G-C1B	4.19	1.46	1.34
44	HD	103	DGD	O1G-C1A	4.19	1.45	1.33
33	jC	201	CYC	C1C-NC	-4.19	1.32	1.37
38	h1	103	SQD	O47-C7	4.18	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	wB	201	CYC	C1C-NC	-4.18	1.32	1.37
39	C1	502	LMG	O7-C10	4.18	1.46	1.34
42	lD	101	LHG	O8-C23	4.18	1.45	1.33
33	jH	201	CYC	C1C-NC	-4.18	1.32	1.37
39	a1	410	LMG	O7-C10	4.18	1.46	1.34
39	aD	409	LMG	O7-C10	4.18	1.46	1.34
44	hD	104	DGD	O2G-C1B	4.18	1.46	1.34
33	b7	201	CYC	C1C-NC	-4.18	1.32	1.37
33	j7	201	CYC	C1C-NC	-4.18	1.32	1.37
33	2G	101	CYC	CHB-C1B	4.18	1.48	1.38
45	DE	403	PHO	C3B-C2B	4.18	1.46	1.40
39	aE	409	LMG	O7-C10	4.18	1.46	1.34
44	c1	518	DGD	O1G-C1A	4.18	1.45	1.33
38	hE	103	SQD	O47-C7	4.18	1.46	1.34
33	MG	201	CYC	C1B-NB	-4.18	1.30	1.37
38	hD	103	SQD	O47-C7	4.18	1.46	1.34
33	fJ	201	CYC	C1C-NC	-4.18	1.32	1.37
38	AE	407	SQD	O48-C23	4.18	1.45	1.33
47	fE	101	HEM	C1B-NB	-4.18	1.33	1.40
47	ED	101	HEM	C1B-NB	-4.18	1.33	1.40
45	DE	403	PHO	CBD-CGD	-4.17	1.46	1.52
33	f3	201	CYC	C1C-NC	-4.17	1.32	1.37
33	fA	201	CYC	C1C-NC	-4.17	1.32	1.37
33	LL	201	CYC	C3B-C2B	4.17	1.45	1.36
33	3F	102	CYC	C1C-NC	-4.17	1.32	1.37
38	AD	407	SQD	O48-C23	4.17	1.45	1.33
39	AD	408	LMG	O8-C28	4.17	1.45	1.33
33	j6	201	CYC	C1C-NC	-4.17	1.32	1.37
33	NL	201	CYC	CHB-C1B	4.17	1.47	1.38
33	f2	201	CYC	C1C-NC	-4.17	1.32	1.37
38	A1	407	SQD	O48-C23	4.17	1.45	1.33
33	j3	201	CYC	C1C-NC	-4.17	1.32	1.37
47	E1	101	HEM	C1B-NB	-4.17	1.33	1.40
33	l6	201	CYC	C1C-NC	-4.17	1.32	1.37
44	hE	104	DGD	O2G-C1B	4.17	1.46	1.34
33	l3	201	CYC	C1C-NC	-4.16	1.32	1.37
33	j8	201	CYC	C1C-NC	-4.16	1.32	1.37
33	lI	201	CYC	C1C-NC	-4.16	1.32	1.37
44	cD	518	DGD	O1G-C1A	4.16	1.45	1.33
33	QG	201	CYC	C1C-NC	-4.16	1.32	1.37
33	f6	201	CYC	C1C-NC	-4.16	1.32	1.37
33	fC	201	CYC	C1C-NC	-4.16	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	QL	201	CYC	CHB-C4A	4.16	1.50	1.40
33	fK	201	CYC	CHB-C1B	4.16	1.47	1.38
33	lC	201	CYC	C1C-NC	-4.16	1.32	1.37
44	cE	518	DGD	O1G-C1A	4.16	1.45	1.33
33	j5	201	CYC	C1C-NC	-4.16	1.32	1.37
38	cE	502	SQD	O47-C7	4.16	1.46	1.34
33	b4	101	CYC	CHB-C1B	4.15	1.47	1.38
38	cD	502	SQD	O47-C7	4.15	1.46	1.34
39	A1	408	LMG	O8-C28	4.15	1.45	1.33
33	LG	201	CYC	C3B-C2B	4.15	1.45	1.36
33	QG	201	CYC	CHB-C4A	4.15	1.50	1.40
33	gF	201	CYC	C1C-NC	-4.15	1.32	1.37
33	3K	102	CYC	C1C-NC	-4.15	1.32	1.37
33	gK	201	CYC	CHB-C4A	4.15	1.50	1.40
33	kF	201	CYC	CHB-C1B	4.15	1.47	1.38
42	dE	409	LHG	O8-C23	4.15	1.45	1.33
33	fH	201	CYC	C1C-NC	-4.15	1.32	1.37
47	EE	101	HEM	C1B-NB	-4.15	1.33	1.40
47	fD	101	HEM	C1B-NB	-4.14	1.33	1.40
44	C1	518	DGD	O1G-C1A	4.14	1.45	1.33
42	DE	409	LHG	O8-C23	4.14	1.45	1.33
33	IF	201	CYC	C1C-NC	-4.14	1.32	1.37
38	c1	501	SQD	O47-C7	4.14	1.46	1.34
33	ML	201	CYC	C1B-NB	-4.14	1.30	1.37
33	eK	201	CYC	C2C-C1C	-4.14	1.48	1.52
39	a1	408	LMG	O8-C28	4.14	1.45	1.33
33	HG	201	CYC	C2A-C3A	4.14	1.45	1.36
42	D1	409	LHG	O8-C23	4.14	1.45	1.33
42	dD	409	LHG	O8-C23	4.14	1.45	1.33
33	IK	201	CYC	C1C-NC	-4.14	1.32	1.37
33	l5	201	CYC	C1C-NC	-4.14	1.32	1.37
44	CE	518	DGD	O1G-C1A	4.14	1.45	1.33
42	DE	410	LHG	O8-C23	4.14	1.45	1.33
45	DE	403	PHO	O2A-CGA	4.14	1.45	1.33
42	d1	409	LHG	O8-C23	4.13	1.45	1.33
33	JL	201	CYC	C1C-NC	-4.13	1.32	1.37
33	i9	202	CYC	C1C-NC	-4.13	1.32	1.37
33	rB	201	CYC	CHB-C1B	4.13	1.47	1.38
33	gF	201	CYC	CHB-C4A	4.13	1.50	1.40
42	A1	411	LHG	O7-C7	4.13	1.46	1.34
38	CE	501	SQD	O47-C7	4.13	1.46	1.34
47	f1	101	HEM	C1B-NB	-4.13	1.33	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	D1	408	LHG	O8-C23	4.13	1.45	1.33
44	CD	518	DGD	O1G-C1A	4.13	1.45	1.33
36	CE	506	CLA	C4D-ND	-4.13	1.32	1.37
33	lH	201	CYC	C1C-NC	-4.13	1.32	1.37
33	r4	201	CYC	CHB-C1B	4.13	1.47	1.38
33	kK	201	CYC	CHB-C1B	4.13	1.47	1.38
33	l8	201	CYC	C1C-NC	-4.13	1.32	1.37
33	f9	201	CYC	C1C-NC	-4.13	1.32	1.37
38	L1	101	SQD	O48-C23	4.13	1.45	1.33
33	bB	101	CYC	CHB-C1B	4.13	1.47	1.38
38	CD	501	SQD	O47-C7	4.13	1.45	1.34
33	f7	201	CYC	C1C-NC	-4.13	1.32	1.37
42	DD	410	LHG	O8-C23	4.13	1.45	1.33
39	aD	407	LMG	O8-C28	4.13	1.45	1.33
38	C1	501	SQD	O47-C7	4.12	1.45	1.34
39	CD	502	LMG	O8-C28	4.12	1.45	1.33
39	aE	407	LMG	O8-C28	4.12	1.45	1.33
33	f8	201	CYC	C1C-NC	-4.12	1.32	1.37
33	lJ	201	CYC	C1C-NC	-4.12	1.32	1.37
42	DD	409	LHG	O8-C23	4.12	1.45	1.33
38	d1	414	SQD	O47-C7	4.12	1.45	1.34
39	mD	101	LMG	O7-C10	4.12	1.45	1.34
33	fI	201	CYC	C1C-NC	-4.12	1.32	1.37
39	CE	502	LMG	O8-C28	4.12	1.45	1.33
33	f5	201	CYC	C1C-NC	-4.12	1.32	1.37
33	l7	201	CYC	C1C-NC	-4.12	1.32	1.37
42	aE	411	LHG	O8-C23	4.12	1.45	1.33
39	mE	101	LMG	O7-C10	4.12	1.45	1.34
42	AD	411	LHG	O7-C7	4.12	1.45	1.34
39	m1	101	LMG	O7-C10	4.12	1.45	1.34
33	iC	202	CYC	C1C-NC	-4.11	1.32	1.37
38	L1	102	SQD	O48-C23	4.11	1.45	1.33
42	aD	411	LHG	O8-C23	4.11	1.45	1.33
33	dH	201	CYC	C1C-NC	-4.11	1.32	1.37
42	AE	411	LHG	O7-C7	4.11	1.45	1.34
33	d2	201	CYC	C1C-NC	-4.11	1.32	1.37
39	C1	502	LMG	O8-C28	4.11	1.45	1.33
38	LD	101	SQD	O48-C23	4.11	1.45	1.33
33	HG	201	CYC	C2C-C1C	-4.11	1.48	1.52
33	d3	201	CYC	C1C-NC	-4.11	1.32	1.37
33	h6	201	CYC	C1C-NC	-4.11	1.32	1.37
38	LD	102	SQD	O48-C23	4.10	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	d7	201	CYC	C1C-NC	-4.10	1.32	1.37
33	d8	201	CYC	C1C-NC	-4.10	1.32	1.37
39	JE	102	LMG	O7-C10	4.10	1.45	1.34
33	l9	201	CYC	C1C-NC	-4.10	1.32	1.37
33	dC	201	CYC	C1C-NC	-4.10	1.32	1.37
33	gK	201	CYC	C1C-NC	-4.10	1.32	1.37
45	D1	402	PHO	C3B-C2B	4.10	1.46	1.40
33	iH	202	CYC	C1C-NC	-4.10	1.32	1.37
38	LE	102	SQD	O48-C23	4.10	1.45	1.33
42	a1	412	LHG	O8-C23	4.10	1.45	1.33
33	JG	201	CYC	CHB-C1B	4.10	1.47	1.38
38	LE	101	SQD	O48-C23	4.09	1.45	1.33
33	i8	202	CYC	C1C-NC	-4.09	1.32	1.37
33	TB	201	CYC	CHB-C1B	4.09	1.47	1.38
36	CD	506	CLA	C4D-ND	-4.09	1.32	1.37
33	dI	201	CYC	C1C-NC	-4.09	1.32	1.37
33	i6	202	CYC	C1C-NC	-4.09	1.32	1.37
33	HL	201	CYC	C2A-C3A	4.09	1.45	1.36
38	A1	407	SQD	O47-C7	4.09	1.45	1.34
38	dE	414	SQD	O47-C7	4.09	1.45	1.34
47	fE	101	HEM	C4D-ND	-4.09	1.33	1.40
38	DD	414	SQD	O47-C7	4.09	1.45	1.34
39	M1	101	LMG	O7-C10	4.09	1.45	1.34
42	AD	411	LHG	O8-C23	4.09	1.45	1.33
33	h8	201	CYC	C1C-NC	-4.08	1.32	1.37
36	C1	506	CLA	C4D-ND	-4.08	1.32	1.37
38	dD	414	SQD	O47-C7	4.08	1.45	1.34
33	C4	1002	CYC	CHB-C1B	4.08	1.47	1.38
33	d5	201	CYC	C1C-NC	-4.08	1.32	1.37
38	D1	413	SQD	O47-C7	4.08	1.45	1.34
39	MD	101	LMG	O7-C10	4.08	1.45	1.34
33	l2	201	CYC	C1C-NC	-4.08	1.32	1.37
42	d1	410	LHG	O8-C23	4.08	1.45	1.33
33	T4	201	CYC	CHB-C1B	4.08	1.47	1.38
33	iJ	202	CYC	C1C-NC	-4.08	1.32	1.37
33	JL	201	CYC	CHB-C1B	4.08	1.47	1.38
39	JD	102	LMG	O7-C10	4.07	1.45	1.34
47	f1	101	HEM	C4D-ND	-4.07	1.33	1.40
33	dA	201	CYC	C1C-NC	-4.07	1.32	1.37
44	cE	516	DGD	O1G-C1A	4.07	1.45	1.33
33	iI	202	CYC	C1C-NC	-4.07	1.32	1.37
38	DE	414	SQD	O47-C7	4.07	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	i2	202	CYC	C1C-NC	-4.07	1.32	1.37
45	D1	402	PHO	O2A-CGA	4.07	1.45	1.33
39	y1	101	LMG	O8-C28	4.07	1.45	1.33
33	CB	1002	CYC	CHB-C1B	4.07	1.47	1.38
33	iA	202	CYC	C1C-NC	-4.07	1.32	1.37
33	hJ	201	CYC	C1C-NC	-4.07	1.32	1.37
42	eE	101	LHG	O7-C7	4.07	1.45	1.34
38	AE	407	SQD	O47-C7	4.07	1.45	1.34
45	DD	403	PHO	O2A-CGA	4.07	1.45	1.33
42	dD	410	LHG	O8-C23	4.07	1.45	1.33
44	cD	516	DGD	O1G-C1A	4.07	1.45	1.33
33	lA	201	CYC	C1C-NC	-4.07	1.32	1.37
42	A1	411	LHG	O8-C23	4.07	1.45	1.33
33	i3	202	CYC	C1C-NC	-4.06	1.32	1.37
33	d6	201	CYC	C1C-NC	-4.06	1.32	1.37
33	i7	202	CYC	C1C-NC	-4.06	1.32	1.37
33	B4	1001	CYC	CHB-C4A	4.06	1.49	1.40
33	d9	201	CYC	C1C-NC	-4.06	1.32	1.37
47	fD	101	HEM	C4D-ND	-4.06	1.33	1.40
42	D1	408	LHG	O7-C7	4.06	1.45	1.34
39	J1	102	LMG	O7-C10	4.06	1.45	1.34
42	e1	101	LHG	O7-C7	4.06	1.45	1.34
39	ME	101	LMG	O7-C10	4.06	1.45	1.34
33	BB	1001	CYC	CHB-C4A	4.06	1.49	1.40
36	cE	510	CLA	C4B-NB	4.06	1.38	1.35
33	2G	101	CYC	C2C-C1C	-4.06	1.48	1.52
45	A1	412	PHO	C1A-C2A	-4.06	1.45	1.51
42	DE	409	LHG	O7-C7	4.06	1.45	1.34
33	h3	201	CYC	C1C-NC	-4.06	1.32	1.37
38	AD	407	SQD	O47-C7	4.06	1.45	1.34
42	eD	101	LHG	O7-C7	4.06	1.45	1.34
33	HL	201	CYC	C2C-C1C	-4.06	1.48	1.52
36	cE	506	CLA	C4D-ND	-4.06	1.32	1.37
36	cD	506	CLA	C4D-ND	-4.05	1.32	1.37
39	yD	101	LMG	O8-C28	4.05	1.45	1.33
42	AE	411	LHG	O8-C23	4.05	1.45	1.33
42	DD	409	LHG	O7-C7	4.05	1.45	1.34
44	c1	516	DGD	O1G-C1A	4.05	1.45	1.33
33	dJ	201	CYC	C1C-NC	-4.05	1.32	1.37
39	yE	101	LMG	O8-C28	4.05	1.45	1.33
33	2L	101	CYC	C2C-C1C	-4.05	1.48	1.52
36	c1	505	CLA	C4D-ND	-4.05	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	aD	411	LHG	O7-C7	4.05	1.45	1.34
39	b1	619	LMG	O8-C28	4.05	1.45	1.33
42	aE	411	LHG	O7-C7	4.04	1.45	1.34
33	7L	201	CYC	C3D-C2D	4.04	1.49	1.37
33	7G	201	CYC	C3D-C2D	4.04	1.49	1.37
39	bD	619	LMG	O8-C28	4.04	1.45	1.33
33	AL	201	CYC	CHB-C1B	4.04	1.47	1.38
47	VE	201	HEM	C1B-NB	-4.04	1.33	1.40
42	dE	410	LHG	O8-C23	4.04	1.45	1.33
33	hH	201	CYC	C1C-NC	-4.04	1.32	1.37
33	sB	201	CYC	CHB-C1B	4.04	1.47	1.38
39	a1	408	LMG	O7-C10	4.04	1.45	1.34
47	VD	201	HEM	C1B-NB	-4.04	1.33	1.40
45	d1	402	PHO	CBD-CGD	-4.04	1.47	1.52
33	4L	201	CYC	C2A-C3A	4.04	1.45	1.36
33	hC	201	CYC	C1C-NC	-4.04	1.32	1.37
39	B1	618	LMG	O8-C28	4.04	1.45	1.33
33	C4	1003	CYC	C1C-NC	-4.04	1.32	1.37
38	cE	502	SQD	O48-C23	4.03	1.45	1.33
39	a1	410	LMG	O8-C28	4.03	1.45	1.33
39	aE	407	LMG	O7-C10	4.03	1.45	1.34
38	cD	502	SQD	O48-C23	4.03	1.45	1.33
33	h9	201	CYC	C1C-NC	-4.03	1.32	1.37
42	a1	412	LHG	O7-C7	4.03	1.45	1.34
33	B4	1002	CYC	C1C-NC	-4.03	1.32	1.37
38	c1	501	SQD	O48-C23	4.03	1.45	1.33
39	aD	409	LMG	O8-C28	4.03	1.45	1.33
33	AG	201	CYC	CHB-C1B	4.03	1.47	1.38
39	bE	619	LMG	O8-C28	4.03	1.45	1.33
33	4G	201	CYC	C2A-C3A	4.03	1.45	1.36
36	cD	510	CLA	C4B-NB	4.03	1.38	1.35
33	S4	201	CYC	CHB-C4A	4.02	1.49	1.40
47	V1	201	HEM	C1B-NB	-4.02	1.33	1.40
44	JE	101	DGD	O1G-C1A	4.02	1.45	1.33
33	hI	201	CYC	C1C-NC	-4.02	1.32	1.37
33	s4	201	CYC	C1C-NC	-4.02	1.32	1.37
39	BD	618	LMG	O8-C28	4.02	1.45	1.33
33	hA	201	CYC	C1C-NC	-4.02	1.32	1.37
33	SB	201	CYC	CHB-C4A	4.02	1.49	1.40
44	JD	101	DGD	O1G-C1A	4.02	1.45	1.33
39	BE	618	LMG	O8-C28	4.02	1.45	1.33
39	aD	407	LMG	O7-C10	4.02	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	CE	501	SQD	O48-C23	4.02	1.45	1.33
33	ML	201	CYC	CHB-C4A	4.02	1.49	1.40
33	s4	201	CYC	CHB-C1B	4.01	1.47	1.38
39	aE	409	LMG	O8-C28	4.01	1.45	1.33
38	C1	501	SQD	O48-C23	4.01	1.45	1.33
33	MG	201	CYC	CHB-C4A	4.01	1.49	1.40
33	h7	201	CYC	C1C-NC	-4.01	1.32	1.37
33	NF	101	CYC	C1C-NC	-4.01	1.32	1.37
33	CB	1003	CYC	C1C-NC	-4.01	1.32	1.37
45	aD	412	PHO	O2A-CGA	4.01	1.45	1.33
33	h5	201	CYC	C1C-NC	-4.01	1.32	1.37
47	v1	201	HEM	C1B-NB	-4.00	1.33	1.40
33	BB	1002	CYC	C1C-NC	-4.00	1.32	1.37
38	CD	501	SQD	O48-C23	4.00	1.45	1.33
44	J1	101	DGD	O1G-C1A	4.00	1.45	1.33
42	dD	409	LHG	O7-C7	4.00	1.45	1.34
33	gK	201	CYC	CHB-C1B	4.00	1.47	1.38
33	h2	201	CYC	C1C-NC	-4.00	1.32	1.37
36	d1	405	CLA	C4D-ND	-3.99	1.32	1.37
33	qB	201	CYC	C1C-NC	-3.99	1.32	1.37
33	q4	201	CYC	C1C-NC	-3.99	1.32	1.37
33	cK	201	CYC	CHB-C1B	3.99	1.47	1.38
44	cE	518	DGD	O2G-C1B	3.99	1.45	1.34
47	vD	201	HEM	C1B-NB	-3.99	1.33	1.40
45	DD	401	PHO	C9-C8	-3.99	1.40	1.52
36	dE	405	CLA	C4D-ND	-3.98	1.32	1.37
36	c1	510	CLA	C4B-NB	3.98	1.38	1.35
42	d1	409	LHG	O7-C7	3.98	1.45	1.34
45	DE	401	PHO	O2A-CGA	3.98	1.45	1.33
33	sB	201	CYC	C1C-NC	-3.98	1.32	1.37
47	vE	201	HEM	C1B-NB	-3.98	1.33	1.40
45	A1	412	PHO	O2A-CGA	3.98	1.45	1.33
42	DE	410	LHG	O7-C7	3.98	1.45	1.34
38	L1	101	SQD	O47-C7	3.98	1.45	1.34
47	E1	101	HEM	C4D-ND	-3.98	1.33	1.40
42	dE	409	LHG	O7-C7	3.98	1.45	1.34
33	NK	101	CYC	C1C-NC	-3.97	1.32	1.37
33	QB	201	CYC	CHB-C4A	3.97	1.49	1.40
44	cD	518	DGD	O2G-C1B	3.97	1.45	1.34
33	JF	201	CYC	CHB-C4A	3.97	1.49	1.40
33	Q4	201	CYC	CHB-C4A	3.97	1.49	1.40
33	gF	201	CYC	CHB-C1B	3.97	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	DD	410	LHG	O7-C7	3.97	1.45	1.34
39	C1	519	LMG	O7-C10	3.97	1.45	1.34
33	zB	201	CYC	C1C-NC	-3.97	1.32	1.37
38	LE	102	SQD	O47-C7	3.97	1.45	1.34
42	dE	410	LHG	O7-C7	3.97	1.45	1.34
44	c1	518	DGD	O2G-C1B	3.97	1.45	1.34
42	D1	409	LHG	O7-C7	3.97	1.45	1.34
42	d1	410	LHG	O7-C7	3.97	1.45	1.34
33	QG	201	CYC	CHB-C1B	3.97	1.47	1.38
38	LD	101	SQD	O47-C7	3.97	1.45	1.34
33	PL	201	CYC	CHB-C1B	3.96	1.47	1.38
33	dF	201	CYC	C1B-NB	-3.96	1.31	1.37
33	XF	201	CYC	C1C-NC	-3.96	1.32	1.37
33	z4	201	CYC	C1C-NC	-3.96	1.32	1.37
47	ED	101	HEM	C4D-ND	-3.96	1.33	1.40
33	cF	201	CYC	CHB-C1B	3.96	1.47	1.38
38	LE	101	SQD	O47-C7	3.96	1.45	1.34
33	PG	201	CYC	CHB-C1B	3.96	1.47	1.38
38	LD	102	SQD	O47-C7	3.96	1.45	1.34
33	JK	201	CYC	CHB-C4A	3.96	1.49	1.40
38	L1	102	SQD	O47-C7	3.96	1.45	1.34
42	dD	410	LHG	O7-C7	3.96	1.45	1.34
44	HE	103	DGD	O2G-C1B	3.96	1.45	1.34
36	dD	405	CLA	C4D-ND	-3.96	1.32	1.37
39	CD	519	LMG	O7-C10	3.95	1.45	1.34
33	OL	201	CYC	CHB-C1B	3.95	1.47	1.38
33	dK	201	CYC	C1B-NB	-3.95	1.31	1.37
44	H1	103	DGD	O2G-C1B	3.95	1.45	1.34
33	XK	201	CYC	C1C-NC	-3.95	1.32	1.37
33	OG	201	CYC	CHB-C1B	3.95	1.47	1.38
33	QL	201	CYC	CHB-C1B	3.95	1.47	1.38
33	2G	101	CYC	C1C-NC	-3.95	1.32	1.37
39	y1	101	LMG	O7-C10	3.95	1.45	1.34
47	EE	101	HEM	C4D-ND	-3.94	1.33	1.40
44	HD	103	DGD	O2G-C1B	3.94	1.45	1.34
44	C1	517	DGD	O1G-C1A	3.94	1.44	1.33
39	yD	101	LMG	O7-C10	3.94	1.45	1.34
36	cD	504	CLA	C3B-C2B	-3.94	1.34	1.40
39	yE	101	LMG	O7-C10	3.94	1.45	1.34
33	hK	201	CYC	C1B-NB	-3.94	1.31	1.37
44	CD	517	DGD	O1G-C1A	3.93	1.44	1.33
39	CE	519	LMG	O7-C10	3.93	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	D1	404	CLA	C4D-ND	-3.93	1.32	1.37
33	2L	101	CYC	C1C-NC	-3.93	1.32	1.37
36	DE	405	CLA	C4D-ND	-3.93	1.32	1.37
44	CE	517	DGD	O1G-C1A	3.92	1.44	1.33
36	c1	503	CLA	C3B-C2B	-3.92	1.34	1.40
36	cE	504	CLA	C3B-C2B	-3.91	1.34	1.40
45	d1	402	PHO	O2A-CGA	3.91	1.44	1.33
33	hF	201	CYC	C1B-NB	-3.91	1.31	1.37
33	Z4	201	CYC	C1C-NC	-3.91	1.32	1.37
33	c9	201	CYC	C2C-C1C	-3.91	1.48	1.52
33	ZB	201	CYC	C1C-NC	-3.91	1.32	1.37
42	BE	620	LHG	O7-C7	3.91	1.45	1.34
42	BD	620	LHG	O7-C7	3.91	1.45	1.34
36	DD	405	CLA	C4D-ND	-3.90	1.32	1.37
33	BA	301	CYC	C2C-C1C	-3.90	1.48	1.52
44	CE	518	DGD	O2G-C1B	3.90	1.45	1.34
33	BI	301	CYC	C2C-C1C	-3.90	1.48	1.52
33	u4	201	CYC	CHB-C4A	3.90	1.49	1.40
33	YK	201	CYC	C1B-NB	-3.90	1.31	1.37
42	B1	621	LHG	O7-C7	3.89	1.45	1.34
33	YF	201	CYC	C1B-NB	-3.89	1.31	1.37
44	CD	518	DGD	O2G-C1B	3.89	1.45	1.34
33	c5	201	CYC	C2C-C1C	-3.89	1.48	1.52
33	B7	301	CYC	C2C-C1C	-3.89	1.48	1.52
33	g8	202	CYC	C2C-C1C	-3.89	1.48	1.52
44	JE	101	DGD	O2G-C1B	3.89	1.45	1.34
33	NK	101	CYC	CHB-C4A	3.89	1.49	1.40
33	kK	201	CYC	C1C-NC	-3.89	1.32	1.37
33	aK	201	CYC	C2C-C1C	-3.88	1.48	1.52
33	uB	201	CYC	CHB-C4A	3.88	1.49	1.40
45	d1	402	PHO	C3C-C2C	3.88	1.49	1.37
33	PG	201	CYC	C2C-C1C	-3.88	1.48	1.52
33	NF	101	CYC	CHB-C4A	3.88	1.49	1.40
42	lE	101	LHG	O7-C7	3.88	1.45	1.34
33	S4	201	CYC	C1C-NC	-3.88	1.32	1.37
33	BC	301	CYC	C2C-C1C	-3.88	1.48	1.52
45	aE	412	PHO	CAA-C2A	-3.87	1.45	1.54
33	cK	201	CYC	C2C-C1C	-3.87	1.48	1.52
44	cD	517	DGD	O2G-C1B	3.87	1.45	1.34
44	JD	101	DGD	O2G-C1B	3.87	1.45	1.34
42	lD	101	LHG	O7-C7	3.87	1.45	1.34
33	c2	201	CYC	C2C-C1C	-3.87	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	cF	201	CYC	C2C-C1C	-3.87	1.48	1.52
33	gJ	202	CYC	C2C-C1C	-3.87	1.48	1.52
44	C1	518	DGD	O2G-C1B	3.86	1.45	1.34
33	aF	201	CYC	C2C-C1C	-3.86	1.48	1.52
42	l1	101	LHG	O7-C7	3.86	1.45	1.34
33	GL	201	CYC	C2C-C1C	-3.86	1.48	1.52
33	gH	202	CYC	C2C-C1C	-3.86	1.48	1.52
33	kF	201	CYC	C1C-NC	-3.86	1.32	1.37
44	cE	517	DGD	O2G-C1B	3.86	1.45	1.34
44	c1	517	DGD	O2G-C1B	3.86	1.45	1.34
33	B2	301	CYC	C2C-C1C	-3.85	1.48	1.52
33	cC	201	CYC	C2C-C1C	-3.85	1.48	1.52
33	B3	301	CYC	C2C-C1C	-3.85	1.48	1.52
33	c7	201	CYC	C2C-C1C	-3.85	1.48	1.52
44	J1	101	DGD	O2G-C1B	3.85	1.45	1.34
39	AE	408	LMG	O7-C10	3.85	1.45	1.34
39	AD	408	LMG	O7-C10	3.85	1.45	1.34
33	PL	201	CYC	C2C-C1C	-3.85	1.48	1.52
33	LL	201	CYC	CHB-C1B	3.84	1.47	1.38
33	cH	201	CYC	C2C-C1C	-3.84	1.48	1.52
39	A1	408	LMG	O7-C10	3.84	1.45	1.34
33	nK	201	CYC	CHB-C4A	3.84	1.49	1.40
33	i6	202	CYC	C2C-C1C	-3.84	1.48	1.52
36	c1	503	CLA	C4D-ND	-3.84	1.32	1.37
33	LG	201	CYC	CHB-C1B	3.84	1.47	1.38
33	GG	201	CYC	C2C-C1C	-3.84	1.48	1.52
36	cD	504	CLA	C4D-ND	-3.83	1.32	1.37
33	cJ	201	CYC	C2C-C1C	-3.83	1.48	1.52
33	yB	201	CYC	CHB-C1B	3.83	1.47	1.38
33	y4	201	CYC	CHB-C1B	3.83	1.47	1.38
33	nF	201	CYC	CHB-C4A	3.83	1.49	1.40
45	dE	402	PHO	O2A-CGA	3.82	1.44	1.33
33	B9	301	CYC	C2C-C1C	-3.82	1.48	1.52
33	cI	201	CYC	C2C-C1C	-3.82	1.48	1.52
33	bB	101	CYC	C1C-NC	-3.81	1.32	1.37
36	H1	101	CLA	CHC-C1C	3.81	1.44	1.35
33	B4	1002	CYC	CHB-C4A	3.81	1.49	1.40
33	CB	1003	CYC	CHB-C4A	3.81	1.49	1.40
33	SB	201	CYC	C1C-NC	-3.81	1.32	1.37
33	g8	202	CYC	CHB-C4A	3.81	1.49	1.40
33	g5	202	CYC	C2C-C1C	-3.81	1.48	1.52
33	iI	202	CYC	C2C-C1C	-3.81	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	HD	101	CLA	CHC-C1C	3.81	1.44	1.35
33	c6	201	CYC	C2C-C1C	-3.80	1.48	1.52
33	B6	301	CYC	C2C-C1C	-3.80	1.48	1.52
33	i7	202	CYC	C2C-C1C	-3.80	1.48	1.52
45	dD	402	PHO	O2A-CGA	3.80	1.44	1.33
33	iJ	202	CYC	C2C-C1C	-3.80	1.48	1.52
45	aD	412	PHO	C1A-C2A	-3.80	1.45	1.51
33	iC	202	CYC	C2C-C1C	-3.80	1.48	1.52
33	c8	201	CYC	C2C-C1C	-3.80	1.48	1.52
33	BB	1002	CYC	CHB-C4A	3.80	1.49	1.40
33	z4	201	CYC	CHB-C4A	3.80	1.49	1.40
33	e2	201	CYC	C2C-C1C	-3.80	1.48	1.52
45	DD	401	PHO	O2A-CGA	3.80	1.44	1.33
45	aE	412	PHO	O2A-CGA	3.79	1.44	1.33
33	C4	1003	CYC	CHB-C4A	3.79	1.49	1.40
33	iH	202	CYC	C2C-C1C	-3.79	1.48	1.52
33	BA	301	CYC	CHB-C4A	3.79	1.49	1.40
33	k8	201	CYC	CHB-C4A	3.79	1.49	1.40
33	zB	201	CYC	CHB-C4A	3.79	1.49	1.40
36	bE	608	CLA	C4D-ND	-3.78	1.32	1.37
33	B9	301	CYC	CHB-C4A	3.78	1.49	1.40
45	a1	413	PHO	O2A-CGA	3.78	1.44	1.33
45	DD	401	PHO	C12-C13	-3.78	1.32	1.52
33	g5	202	CYC	CHB-C4A	3.78	1.49	1.40
33	i3	202	CYC	C2C-C1C	-3.78	1.48	1.52
36	hD	101	CLA	CHC-C1C	3.78	1.44	1.35
33	B3	301	CYC	CHB-C4A	3.78	1.49	1.40
33	e9	201	CYC	C2C-C1C	-3.78	1.48	1.52
36	hE	101	CLA	CHC-C1C	3.78	1.44	1.35
33	B7	301	CYC	CHB-C4A	3.78	1.49	1.40
33	iA	202	CYC	C2C-C1C	-3.78	1.48	1.52
33	c3	201	CYC	C2C-C1C	-3.77	1.48	1.52
33	k6	201	CYC	CHB-C4A	3.77	1.49	1.40
33	e6	201	CYC	CHB-C4A	3.77	1.49	1.40
33	cA	201	CYC	C2C-C1C	-3.77	1.48	1.52
33	B2	301	CYC	CHB-C4A	3.77	1.49	1.40
36	cE	504	CLA	C4D-ND	-3.77	1.32	1.37
33	LL	201	CYC	C2C-C1C	-3.77	1.48	1.52
33	i5	202	CYC	C2C-C1C	-3.77	1.48	1.52
33	b4	101	CYC	C1C-NC	-3.77	1.32	1.37
36	HE	101	CLA	CHC-C1C	3.77	1.44	1.35
33	gJ	202	CYC	CHB-C4A	3.77	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	gH	202	CYC	CHB-C4A	3.77	1.49	1.40
33	kH	201	CYC	CHB-C4A	3.77	1.49	1.40
33	3F	102	CYC	CHB-C1B	3.76	1.47	1.38
33	k2	201	CYC	CHB-C4A	3.76	1.49	1.40
33	kC	201	CYC	CHB-C4A	3.76	1.49	1.40
33	6G	201	CYC	C1C-NC	-3.76	1.32	1.37
33	LG	201	CYC	C2C-C1C	-3.76	1.48	1.52
33	e8	201	CYC	CHB-C4A	3.76	1.49	1.40
33	BI	301	CYC	CHB-C4A	3.76	1.49	1.40
33	X4	201	CYC	CHB-C4A	3.76	1.49	1.40
33	k3	201	CYC	CHB-C4A	3.76	1.49	1.40
33	k5	201	CYC	CHB-C4A	3.76	1.49	1.40
33	B6	301	CYC	CHB-C4A	3.76	1.49	1.40
33	i9	202	CYC	C2C-C1C	-3.76	1.48	1.52
33	eA	201	CYC	C2C-C1C	-3.76	1.48	1.52
33	iC	202	CYC	CHB-C4A	3.76	1.49	1.40
33	s4	201	CYC	C2C-C1C	-3.76	1.48	1.52
33	3K	102	CYC	CHB-C1B	3.75	1.46	1.38
36	h1	101	CLA	CHC-C1C	3.75	1.44	1.35
33	k9	201	CYC	CHB-C4A	3.75	1.49	1.40
33	kJ	201	CYC	CHB-C4A	3.75	1.49	1.40
33	XB	201	CYC	CHB-C4A	3.75	1.49	1.40
33	c6	201	CYC	CHB-C4A	3.75	1.49	1.40
33	kI	201	CYC	CHB-C4A	3.75	1.49	1.40
33	e3	201	CYC	CHB-C4A	3.75	1.49	1.40
36	b1	606	CLA	C1D-ND	3.74	1.42	1.37
33	cC	201	CYC	CHB-C4A	3.74	1.49	1.40
33	eI	201	CYC	CHB-C4A	3.74	1.49	1.40
33	kA	201	CYC	CHB-C4A	3.74	1.49	1.40
33	c7	201	CYC	CHB-C4A	3.74	1.49	1.40
33	bF	201	CYC	C2C-C1C	-3.74	1.48	1.52
36	b1	608	CLA	C4D-ND	-3.74	1.32	1.37
33	Z4	201	CYC	CHB-C4A	3.74	1.49	1.40
33	e5	201	CYC	CHB-C4A	3.74	1.49	1.40
33	WG	201	CYC	CHB-C4A	3.74	1.49	1.40
33	iA	202	CYC	CHB-C4A	3.74	1.49	1.40
33	eH	201	CYC	CHB-C4A	3.74	1.49	1.40
33	jF	201	CYC	CHB-C4A	3.74	1.49	1.40
33	c5	201	CYC	CHB-C4A	3.74	1.49	1.40
33	k7	201	CYC	CHB-C4A	3.74	1.49	1.40
33	c8	201	CYC	CHB-C4A	3.74	1.49	1.40
33	VB	201	CYC	CHB-C4A	3.74	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	jK	201	CYC	CHB-C4A	3.74	1.49	1.40
33	e7	201	CYC	C2C-C1C	-3.74	1.48	1.52
33	eH	201	CYC	C2C-C1C	-3.74	1.48	1.52
33	WL	201	CYC	CHB-C4A	3.73	1.49	1.40
33	ZB	201	CYC	CHB-C4A	3.73	1.49	1.40
36	bE	606	CLA	C1D-ND	3.73	1.42	1.37
33	cH	201	CYC	CHB-C4A	3.73	1.49	1.40
33	e5	201	CYC	C2C-C1C	-3.73	1.48	1.52
33	sB	201	CYC	C2C-C1C	-3.73	1.48	1.52
33	BC	301	CYC	CHB-C4A	3.73	1.49	1.40
33	e9	201	CYC	CHB-C4A	3.73	1.49	1.40
33	eA	201	CYC	CHB-C4A	3.73	1.49	1.40
33	B4	1004	CYC	C1C-NC	-3.73	1.32	1.37
36	bD	606	CLA	C1D-ND	3.73	1.42	1.37
33	e3	201	CYC	C2C-C1C	-3.73	1.48	1.52
33	i2	202	CYC	C2C-C1C	-3.73	1.48	1.52
33	e7	201	CYC	CHB-C4A	3.72	1.49	1.40
33	KK	201	CYC	CHB-C4A	3.72	1.49	1.40
33	i9	202	CYC	CHB-C4A	3.72	1.49	1.40
33	iH	202	CYC	CHB-C4A	3.72	1.49	1.40
33	bK	201	CYC	C2C-C1C	-3.72	1.48	1.52
33	i8	202	CYC	CHB-C4A	3.72	1.49	1.40
33	KF	201	CYC	CHB-C4A	3.72	1.49	1.40
33	cA	201	CYC	CHB-C4A	3.72	1.49	1.40
33	V4	201	CYC	CHB-C4A	3.71	1.49	1.40
33	cJ	201	CYC	CHB-C4A	3.71	1.49	1.40
33	BB	1004	CYC	C1C-NC	-3.71	1.32	1.37
33	eC	201	CYC	CHB-C4A	3.71	1.49	1.40
33	eJ	201	CYC	CHB-C4A	3.71	1.49	1.40
33	iJ	202	CYC	CHB-C4A	3.71	1.49	1.40
36	bD	608	CLA	C4D-ND	-3.71	1.32	1.37
33	e2	201	CYC	CHB-C4A	3.71	1.49	1.40
45	DE	401	PHO	C9-C8	-3.71	1.41	1.52
33	c3	201	CYC	CHB-C4A	3.71	1.49	1.40
33	i3	202	CYC	CHB-C4A	3.71	1.49	1.40
33	cI	201	CYC	CHB-C4A	3.71	1.49	1.40
33	c2	201	CYC	CHB-C4A	3.71	1.49	1.40
33	i7	202	CYC	CHB-C4A	3.71	1.49	1.40
33	vB	201	CYC	CHB-C4A	3.70	1.49	1.40
33	i5	202	CYC	CHB-C4A	3.70	1.49	1.40
33	c9	201	CYC	CHB-C4A	3.70	1.49	1.40
33	i6	202	CYC	CHB-C4A	3.70	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	e8	201	CYC	C2C-C1C	-3.70	1.48	1.52
33	OB	201	CYC	C3D-C2D	3.70	1.48	1.37
33	9F	201	CYC	CHB-C4A	3.70	1.49	1.40
33	9K	201	CYC	CHB-C4A	3.70	1.49	1.40
33	eI	201	CYC	C2C-C1C	-3.70	1.48	1.52
36	XE	101	CLA	C4D-ND	-3.70	1.32	1.37
33	iI	202	CYC	CHB-C4A	3.70	1.49	1.40
33	6L	201	CYC	C1C-NC	-3.70	1.32	1.37
36	aE	404	CLA	C4D-ND	-3.70	1.32	1.37
33	fK	201	CYC	C2C-C1C	-3.70	1.48	1.52
36	B1	606	CLA	C4D-ND	-3.69	1.32	1.37
33	i2	202	CYC	CHB-C4A	3.69	1.49	1.40
33	O4	201	CYC	C3D-C2D	3.69	1.48	1.37
33	kF	201	CYC	C3D-C2D	3.69	1.48	1.37
33	kK	201	CYC	C3D-C2D	3.69	1.48	1.37
36	a1	405	CLA	C4D-ND	-3.69	1.32	1.37
36	XD	101	CLA	C4D-ND	-3.69	1.32	1.37
33	TL	201	CYC	CHB-C4A	3.68	1.49	1.40
36	bD	611	CLA	CMB-C2B	-3.68	1.44	1.51
33	i8	202	CYC	C2C-C1C	-3.68	1.48	1.52
33	eJ	201	CYC	C2C-C1C	-3.68	1.48	1.52
36	CD	504	CLA	C1D-ND	3.68	1.42	1.37
33	r4	201	CYC	C2C-C1C	-3.68	1.48	1.52
33	e6	201	CYC	C2C-C1C	-3.68	1.48	1.52
33	rB	201	CYC	C2C-C1C	-3.68	1.48	1.52
36	bE	611	CLA	CMB-C2B	-3.68	1.44	1.51
36	BD	611	CLA	C4D-ND	-3.68	1.32	1.37
33	TG	201	CYC	CHB-C4A	3.68	1.49	1.40
36	aD	404	CLA	C4D-ND	-3.68	1.32	1.37
36	BD	604	CLA	C1D-ND	3.67	1.42	1.37
33	v4	201	CYC	CHB-C4A	3.67	1.49	1.40
33	eC	201	CYC	C2C-C1C	-3.67	1.48	1.52
36	X1	101	CLA	C4D-ND	-3.67	1.32	1.37
33	7L	201	CYC	C2C-C1C	-3.67	1.48	1.52
33	XK	201	CYC	CHB-C4A	3.67	1.49	1.40
33	TB	201	CYC	CHB-C4A	3.67	1.49	1.40
33	LL	201	CYC	C2A-C3A	3.66	1.44	1.36
33	IF	201	CYC	C4B-NB	-3.66	1.30	1.38
36	b1	612	CLA	C4D-ND	-3.66	1.32	1.37
36	C1	504	CLA	C1D-ND	3.66	1.42	1.37
36	B1	611	CLA	C4D-ND	-3.66	1.32	1.37
33	IK	201	CYC	C1B-C2B	3.66	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	IK	201	CYC	C4B-NB	-3.66	1.30	1.38
36	BD	606	CLA	C4D-ND	-3.66	1.32	1.37
36	cE	508	CLA	C4D-ND	-3.66	1.32	1.37
33	T4	201	CYC	CHB-C4A	3.66	1.49	1.40
36	BE	604	CLA	C1D-ND	3.65	1.42	1.37
36	CE	504	CLA	C1D-ND	3.65	1.42	1.37
36	BD	610	CLA	CMB-C2B	-3.65	1.44	1.51
36	dE	403	CLA	C4D-ND	-3.65	1.32	1.37
33	LG	201	CYC	C2A-C3A	3.65	1.44	1.36
36	c1	514	CLA	C4D-ND	-3.65	1.32	1.37
36	cE	514	CLA	C4D-ND	-3.65	1.32	1.37
36	bD	611	CLA	C4D-ND	-3.65	1.32	1.37
36	b1	611	CLA	CMB-C2B	-3.65	1.44	1.51
36	bE	611	CLA	C4D-ND	-3.65	1.32	1.37
36	bE	612	CLA	C4D-ND	-3.65	1.32	1.37
36	BD	610	CLA	C4D-ND	-3.64	1.32	1.37
33	7G	201	CYC	C2C-C1C	-3.64	1.48	1.52
33	IF	201	CYC	C1B-C2B	3.64	1.51	1.45
33	ZK	201	CYC	CHB-C4A	3.64	1.48	1.40
33	XF	201	CYC	CHB-C4A	3.64	1.48	1.40
36	BE	610	CLA	CMB-C2B	-3.64	1.44	1.51
33	Q4	201	CYC	C1C-NC	-3.64	1.32	1.37
36	B1	604	CLA	C1D-ND	3.64	1.42	1.37
33	rB	201	CYC	CHB-C4A	3.64	1.48	1.40
33	ZF	201	CYC	CHB-C4A	3.63	1.48	1.40
36	BE	611	CLA	C4D-ND	-3.63	1.32	1.37
33	fF	201	CYC	C2C-C1C	-3.63	1.48	1.52
36	B1	608	CLA	C4D-ND	-3.63	1.32	1.37
36	bD	612	CLA	C4D-ND	-3.63	1.32	1.37
36	B1	610	CLA	C4D-ND	-3.63	1.32	1.37
33	CB	1001	CYC	CHB-C4A	3.63	1.48	1.40
36	B1	610	CLA	CMB-C2B	-3.63	1.44	1.51
36	cD	514	CLA	C4D-ND	-3.63	1.32	1.37
33	r4	201	CYC	CHB-C4A	3.63	1.48	1.40
36	CE	508	CLA	C4D-ND	-3.62	1.32	1.37
36	BE	606	CLA	C4D-ND	-3.62	1.32	1.37
33	C4	1001	CYC	CHB-C4A	3.62	1.48	1.40
33	k3	201	CYC	C2C-C1C	-3.62	1.48	1.52
36	bE	613	CLA	C4D-ND	-3.62	1.32	1.37
45	DD	401	PHO	CAA-C2A	-3.62	1.45	1.54
33	JG	201	CYC	CHB-C4A	3.62	1.48	1.40
36	dD	403	CLA	C4D-ND	-3.62	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	A1	404	CLA	C4D-ND	-3.61	1.32	1.37
36	CE	507	CLA	C4D-ND	-3.61	1.32	1.37
33	QB	201	CYC	C1C-NC	-3.61	1.32	1.37
33	fK	201	CYC	CHB-C4A	3.61	1.48	1.40
36	B1	614	CLA	CHC-C1C	3.61	1.44	1.35
45	dD	402	PHO	C3D-C2D	3.61	1.45	1.39
33	fF	201	CYC	CHB-C4A	3.61	1.48	1.40
36	BD	608	CLA	C4D-ND	-3.61	1.32	1.37
33	TB	201	CYC	C2C-C1C	-3.61	1.48	1.52
36	c1	507	CLA	C4D-ND	-3.61	1.32	1.37
36	AE	404	CLA	C4D-ND	-3.60	1.32	1.37
36	c1	508	CLA	C4D-ND	-3.60	1.32	1.37
33	JL	201	CYC	CHB-C4A	3.60	1.48	1.40
36	b1	611	CLA	C4D-ND	-3.60	1.32	1.37
36	CD	508	CLA	C4D-ND	-3.60	1.32	1.37
45	d1	402	PHO	CAA-C2A	-3.60	1.45	1.54
36	cE	505	CLA	C4D-ND	-3.60	1.32	1.37
33	RL	201	CYC	CHB-C4A	3.60	1.48	1.40
33	QG	201	CYC	C1B-NB	-3.60	1.31	1.37
36	cD	508	CLA	C4D-ND	-3.59	1.32	1.37
36	cD	505	CLA	C4D-ND	-3.59	1.32	1.37
45	dE	402	PHO	C3D-C2D	3.59	1.45	1.39
33	T4	201	CYC	C2C-C1C	-3.59	1.48	1.52
33	IK	201	CYC	C4A-C3A	3.59	1.53	1.45
33	IF	201	CYC	C4A-C3A	3.59	1.53	1.45
36	B1	612	CLA	C4D-ND	-3.59	1.32	1.37
33	gK	201	CYC	C1B-NB	-3.59	1.31	1.37
36	CD	507	CLA	C4D-ND	-3.59	1.32	1.37
36	xE	101	CLA	C4D-ND	-3.59	1.32	1.37
36	x1	101	CLA	C4D-ND	-3.59	1.32	1.37
36	xD	101	CLA	C4D-ND	-3.59	1.32	1.37
33	a4	201	CYC	C3D-C2D	3.59	1.48	1.37
36	BE	608	CLA	C4D-ND	-3.59	1.32	1.37
33	k2	201	CYC	C2C-C1C	-3.59	1.48	1.52
33	gF	201	CYC	C1B-NB	-3.58	1.31	1.37
36	AD	404	CLA	C4D-ND	-3.58	1.32	1.37
33	aB	201	CYC	C3D-C2D	3.58	1.48	1.37
36	d1	403	CLA	C4D-ND	-3.57	1.32	1.37
45	DD	403	PHO	C9-C8	3.57	1.64	1.52
33	k8	201	CYC	C2C-C1C	-3.57	1.48	1.52
36	c1	504	CLA	C4D-ND	-3.57	1.32	1.37
33	O4	201	CYC	CHB-C4A	3.57	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BE	610	CLA	C4D-ND	-3.57	1.32	1.37
36	c1	509	CLA	CMC-C2C	-3.57	1.43	1.50
33	y4	201	CYC	C2C-C1C	-3.57	1.48	1.52
33	k6	201	CYC	C2C-C1C	-3.57	1.48	1.52
33	mK	201	CYC	CHB-C4A	3.57	1.48	1.40
33	4L	201	CYC	CHB-C4A	3.57	1.48	1.40
33	kH	201	CYC	C2C-C1C	-3.57	1.48	1.52
36	cE	509	CLA	CMC-C2C	-3.57	1.43	1.50
33	4G	201	CYC	CHB-C4A	3.57	1.48	1.40
33	6L	201	CYC	C3D-C2D	3.57	1.48	1.37
36	cD	509	CLA	CMC-C2C	-3.56	1.43	1.50
33	kC	201	CYC	C2C-C1C	-3.56	1.48	1.52
36	BD	614	CLA	CHC-C1C	3.56	1.44	1.35
36	BE	602	CLA	C4D-ND	-3.56	1.32	1.37
33	wB	201	CYC	CHB-C4A	3.56	1.48	1.40
36	bD	613	CLA	C4D-ND	-3.56	1.32	1.37
33	yB	201	CYC	C2C-C1C	-3.56	1.48	1.52
36	C1	507	CLA	C4D-ND	-3.56	1.32	1.37
33	kF	201	CYC	CHB-C4A	3.56	1.48	1.40
36	BE	605	CLA	C1D-ND	3.56	1.42	1.37
36	BE	614	CLA	CHC-C1C	3.56	1.44	1.35
33	w4	201	CYC	CHB-C4A	3.56	1.48	1.40
33	OB	201	CYC	CHB-C4A	3.56	1.48	1.40
36	BD	603	CLA	O1D-CGD	3.56	1.30	1.21
33	kA	201	CYC	C2C-C1C	-3.56	1.48	1.52
33	6G	201	CYC	C3D-C2D	3.55	1.48	1.37
33	kK	201	CYC	CHB-C4A	3.55	1.48	1.40
33	QL	201	CYC	C1B-NB	-3.55	1.31	1.37
36	C1	508	CLA	C4D-ND	-3.55	1.32	1.37
36	c1	502	CLA	C1D-ND	3.55	1.42	1.37
36	b1	613	CLA	C4D-ND	-3.55	1.32	1.37
33	RG	201	CYC	CHB-C4A	3.55	1.48	1.40
36	hE	101	CLA	C4D-ND	-3.55	1.32	1.37
36	B1	603	CLA	C4D-ND	-3.54	1.32	1.37
33	k9	201	CYC	C2C-C1C	-3.54	1.48	1.52
36	BE	603	CLA	O1D-CGD	3.54	1.30	1.21
36	cE	503	CLA	C1D-ND	3.54	1.42	1.37
36	hD	101	CLA	C4D-ND	-3.54	1.32	1.37
33	k5	201	CYC	C2C-C1C	-3.54	1.48	1.52
36	b1	615	CLA	CHC-C1C	3.54	1.44	1.35
33	bK	201	CYC	CHB-C4A	3.54	1.48	1.40
36	BE	603	CLA	C4D-ND	-3.54	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	kI	201	CYC	C2C-C1C	-3.54	1.48	1.52
33	5L	201	CYC	CHB-C1B	3.54	1.46	1.38
33	mF	201	CYC	CHB-C4A	3.54	1.48	1.40
36	bE	605	CLA	C4D-ND	-3.54	1.32	1.37
36	cD	503	CLA	C1D-ND	3.54	1.42	1.37
33	bF	201	CYC	CHB-C4A	3.53	1.48	1.40
36	cD	507	CLA	C4D-ND	-3.53	1.32	1.37
33	ML	201	CYC	C2C-C1C	-3.53	1.48	1.52
33	hK	201	CYC	C3D-C2D	3.53	1.48	1.37
36	cE	510	CLA	C4D-ND	-3.53	1.32	1.37
33	1L	201	CYC	C3D-C2D	3.53	1.48	1.37
36	bD	615	CLA	CHC-C1C	3.53	1.44	1.35
33	VG	201	CYC	CHB-C4A	3.53	1.48	1.40
36	h1	101	CLA	C4D-ND	-3.53	1.32	1.37
36	BD	605	CLA	C1D-ND	3.53	1.42	1.37
36	c1	510	CLA	C4D-ND	-3.53	1.32	1.37
33	GG	201	CYC	CHB-C4A	3.52	1.48	1.40
33	hF	201	CYC	C3D-C2D	3.52	1.48	1.37
36	H1	101	CLA	C4D-ND	-3.52	1.32	1.37
33	qB	201	CYC	CHB-C4A	3.52	1.48	1.40
36	bE	615	CLA	CHC-C1C	3.52	1.44	1.35
36	B1	605	CLA	C1D-ND	3.52	1.42	1.37
33	R4	201	CYC	CHB-C1B	3.52	1.46	1.38
33	dK	201	CYC	C3D-C2D	3.52	1.48	1.37
33	5L	201	CYC	CHB-C4A	3.52	1.48	1.40
33	5G	201	CYC	CHB-C1B	3.52	1.46	1.38
33	YF	201	CYC	C3D-C2D	3.52	1.48	1.37
36	cE	507	CLA	C4D-ND	-3.52	1.32	1.37
33	q4	201	CYC	CHB-C4A	3.52	1.48	1.40
36	BE	612	CLA	C4D-ND	-3.52	1.32	1.37
33	VL	201	CYC	CHB-C4A	3.51	1.48	1.40
36	B1	603	CLA	O1D-CGD	3.51	1.30	1.21
33	bB	101	CYC	CHB-C4A	3.51	1.48	1.40
33	T4	201	CYC	C1C-NC	-3.51	1.33	1.37
33	RB	201	CYC	CHB-C1B	3.51	1.46	1.38
33	ML	201	CYC	C4B-NB	-3.51	1.30	1.38
33	JK	201	CYC	C2C-C1C	-3.51	1.49	1.52
33	GL	201	CYC	CHB-C4A	3.51	1.48	1.40
33	TB	201	CYC	C1C-NC	-3.51	1.33	1.37
33	R4	201	CYC	C2C-C1C	-3.51	1.49	1.52
36	bD	615	CLA	C4D-ND	-3.51	1.32	1.37
33	1G	201	CYC	C1B-C2B	3.51	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	b1	605	CLA	C4D-ND	-3.51	1.32	1.37
33	5G	201	CYC	CHB-C4A	3.51	1.48	1.40
36	BD	612	CLA	C4D-ND	-3.51	1.32	1.37
33	1G	201	CYC	C3D-C2D	3.51	1.48	1.37
33	kJ	201	CYC	C2C-C1C	-3.51	1.49	1.52
33	dF	201	CYC	C3D-C2D	3.50	1.48	1.37
36	BD	603	CLA	C4D-ND	-3.50	1.32	1.37
36	HD	101	CLA	C4D-ND	-3.50	1.32	1.37
36	bD	604	CLA	C4D-ND	-3.50	1.32	1.37
33	6L	201	CYC	CHB-C4A	3.50	1.48	1.40
33	1L	201	CYC	C1B-C2B	3.50	1.51	1.45
36	bE	605	CLA	O1D-CGD	3.50	1.30	1.21
33	TB	201	CYC	C3D-C2D	3.50	1.48	1.37
33	6G	201	CYC	CHB-C4A	3.50	1.48	1.40
33	YK	201	CYC	C3D-C2D	3.50	1.48	1.37
36	bD	605	CLA	C4D-ND	-3.50	1.32	1.37
36	bE	607	CLA	C1D-ND	3.50	1.42	1.37
36	BD	602	CLA	C4D-ND	-3.50	1.32	1.37
36	bE	615	CLA	C4D-ND	-3.50	1.32	1.37
36	b1	604	CLA	C4D-ND	-3.50	1.32	1.37
36	bD	605	CLA	O1D-CGD	3.50	1.30	1.21
36	BD	609	CLA	C1D-ND	3.50	1.42	1.37
36	dE	406	CLA	C4D-ND	-3.50	1.32	1.37
33	MG	201	CYC	C4B-NB	-3.50	1.30	1.38
36	B1	609	CLA	C1D-ND	3.50	1.42	1.37
33	b4	101	CYC	CHB-C4A	3.49	1.48	1.40
36	BD	611	CLA	C1D-ND	3.49	1.42	1.37
33	T4	201	CYC	C3D-C2D	3.49	1.48	1.37
33	IK	201	CYC	C2C-C1C	-3.49	1.49	1.52
33	3K	101	CYC	C3D-C2D	3.49	1.48	1.37
33	k7	201	CYC	C2C-C1C	-3.49	1.49	1.52
33	R4	201	CYC	C4A-C3A	3.49	1.53	1.45
33	IF	201	CYC	C2C-C1C	-3.49	1.49	1.52
36	bE	604	CLA	C4D-ND	-3.49	1.32	1.37
36	dD	406	CLA	C4D-ND	-3.49	1.32	1.37
45	aD	412	PHO	C3D-C2D	3.48	1.45	1.39
33	MG	201	CYC	C2C-C1C	-3.48	1.49	1.52
36	CE	515	CLA	C1D-ND	3.48	1.42	1.37
36	B1	602	CLA	C4D-ND	-3.48	1.32	1.37
36	B1	611	CLA	C1D-ND	3.48	1.42	1.37
36	bD	607	CLA	C1D-ND	3.48	1.42	1.37
36	HE	101	CLA	C4D-ND	-3.48	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	gK	201	CYC	C2A-C3A	3.48	1.44	1.36
47	v1	201	HEM	C4D-ND	-3.48	1.34	1.40
36	b1	605	CLA	O1D-CGD	3.48	1.29	1.21
33	JF	201	CYC	C2C-C1C	-3.47	1.49	1.52
36	BE	609	CLA	C1D-ND	3.47	1.42	1.37
36	b1	615	CLA	C4D-ND	-3.47	1.32	1.37
45	aE	412	PHO	C3C-C2C	3.47	1.48	1.37
33	3F	101	CYC	C3D-C2D	3.47	1.48	1.37
33	RB	201	CYC	C4A-C3A	3.47	1.53	1.45
36	bD	610	CLA	C1D-ND	3.47	1.42	1.37
33	B4	1004	CYC	CHB-C4A	3.47	1.48	1.40
36	B1	614	CLA	C4D-ND	-3.47	1.32	1.37
36	CD	515	CLA	C1D-ND	3.46	1.42	1.37
36	cD	510	CLA	C4D-ND	-3.46	1.32	1.37
33	AG	201	CYC	C1C-NC	-3.46	1.33	1.37
33	PB	201	CYC	C3D-C2D	3.46	1.47	1.37
36	b1	607	CLA	C1D-ND	3.46	1.42	1.37
33	P4	201	CYC	C3D-C2D	3.46	1.47	1.37
33	PG	201	CYC	CHB-C4A	3.46	1.48	1.40
33	II	201	CYC	CHB-C4A	3.46	1.48	1.40
33	BB	1004	CYC	CHB-C4A	3.46	1.48	1.40
36	cE	504	CLA	CMB-C2B	-3.45	1.44	1.51
36	cD	513	CLA	C4D-ND	-3.45	1.32	1.37
33	AL	201	CYC	C1C-NC	-3.45	1.33	1.37
36	C1	515	CLA	C1D-ND	3.45	1.42	1.37
36	BD	605	CLA	C4D-ND	-3.45	1.32	1.37
36	C1	503	CLA	C1D-ND	3.45	1.42	1.37
36	d1	406	CLA	C4D-ND	-3.45	1.33	1.37
36	BE	611	CLA	C1D-ND	3.45	1.42	1.37
47	vD	201	HEM	C4D-ND	-3.45	1.34	1.40
33	OL	201	CYC	CHB-C4A	3.45	1.48	1.40
33	LF	201	CYC	C2C-C1C	-3.45	1.49	1.52
36	c1	502	CLA	C4D-ND	-3.45	1.33	1.37
33	gF	201	CYC	C2A-C3A	3.44	1.44	1.36
33	lC	201	CYC	CHB-C4A	3.44	1.48	1.40
33	b6	201	CYC	CHB-C4A	3.44	1.48	1.40
36	c1	511	CLA	C4D-ND	-3.44	1.33	1.37
33	BB	1003	CYC	C2C-C1C	-3.44	1.49	1.52
36	a1	406	CLA	C1D-ND	3.44	1.42	1.37
33	YF	201	CYC	C4B-NB	-3.44	1.30	1.38
36	cD	511	CLA	C4D-ND	-3.44	1.33	1.37
33	OG	201	CYC	CHB-C4A	3.44	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	l9	201	CYC	CHB-C4A	3.44	1.48	1.40
36	b1	610	CLA	C1D-ND	3.44	1.42	1.37
36	b1	612	CLA	C1D-ND	3.44	1.42	1.37
36	B1	605	CLA	C4D-ND	-3.44	1.33	1.37
45	A1	412	PHO	C3D-C2D	3.44	1.45	1.39
33	LG	201	CYC	CHB-C4A	3.44	1.48	1.40
36	BE	605	CLA	C4D-ND	-3.44	1.33	1.37
36	cE	511	CLA	C4D-ND	-3.43	1.33	1.37
33	PL	201	CYC	CHB-C4A	3.43	1.48	1.40
33	lJ	201	CYC	CHB-C4A	3.43	1.48	1.40
33	XK	201	CYC	C2C-C1C	-3.43	1.49	1.52
36	DE	406	CLA	C4D-ND	-3.43	1.33	1.37
33	LF	201	CYC	CHB-C4A	3.43	1.48	1.40
33	NK	101	CYC	C2C-C1C	-3.43	1.49	1.52
33	l8	201	CYC	CHB-C4A	3.43	1.48	1.40
33	LL	201	CYC	CHB-C4A	3.43	1.48	1.40
33	fA	201	CYC	CHB-C4A	3.43	1.48	1.40
45	dD	402	PHO	C3C-C2C	3.43	1.47	1.37
33	b2	201	CYC	CHB-C4A	3.43	1.48	1.40
33	bI	201	CYC	CHB-C4A	3.43	1.48	1.40
33	b8	201	CYC	CHB-C4A	3.43	1.48	1.40
33	lA	201	CYC	CHB-C4A	3.43	1.48	1.40
33	l2	201	CYC	CHB-C4A	3.43	1.48	1.40
33	l7	201	CYC	CHB-C4A	3.43	1.48	1.40
33	YK	201	CYC	C4B-NB	-3.43	1.30	1.38
36	c1	503	CLA	CMB-C2B	-3.43	1.44	1.51
45	aD	412	PHO	C9-C8	-3.43	1.41	1.52
36	c1	513	CLA	C4D-ND	-3.43	1.33	1.37
36	aE	405	CLA	C1D-ND	3.43	1.42	1.37
33	bJ	201	CYC	CHB-C4A	3.43	1.48	1.40
36	cD	504	CLA	CMB-C2B	-3.43	1.44	1.51
33	XF	201	CYC	C2C-C1C	-3.42	1.49	1.52
33	lH	201	CYC	CHB-C4A	3.42	1.48	1.40
33	hF	201	CYC	C4B-NB	-3.42	1.30	1.38
36	b1	610	CLA	C4D-ND	-3.42	1.33	1.37
47	vE	201	HEM	C4D-ND	-3.42	1.34	1.40
33	l6	201	CYC	CHB-C4A	3.42	1.48	1.40
45	D1	402	PHO	C3C-C2C	3.42	1.47	1.37
33	f2	201	CYC	CHB-C4A	3.42	1.48	1.40
45	a1	413	PHO	C3C-C2C	3.42	1.47	1.37
33	bC	201	CYC	CHB-C4A	3.42	1.48	1.40
33	AL	201	CYC	C3D-C2D	3.42	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	CE	503	CLA	C1D-ND	3.42	1.42	1.37
36	aD	405	CLA	C1D-ND	3.42	1.42	1.37
33	fJ	201	CYC	CHB-C4A	3.42	1.48	1.40
36	BD	614	CLA	C4D-ND	-3.42	1.33	1.37
33	uB	201	CYC	C3D-C2D	3.42	1.47	1.37
33	l5	201	CYC	CHB-C4A	3.42	1.48	1.40
33	dC	201	CYC	CHB-C4A	3.42	1.48	1.40
36	bE	610	CLA	C4D-ND	-3.42	1.33	1.37
33	d5	201	CYC	CHB-C4A	3.42	1.48	1.40
33	f5	201	CYC	CHB-C4A	3.42	1.48	1.40
33	j7	201	CYC	CHB-C4A	3.42	1.48	1.40
33	dF	201	CYC	C4B-NB	-3.42	1.30	1.38
36	bE	607	CLA	C4D-ND	-3.42	1.33	1.37
36	D1	405	CLA	C4D-ND	-3.41	1.33	1.37
33	bH	201	CYC	CHB-C4A	3.41	1.48	1.40
33	b3	201	CYC	CHB-C4A	3.41	1.48	1.40
36	bD	612	CLA	C1D-ND	3.41	1.42	1.37
33	l3	201	CYC	CHB-C4A	3.41	1.48	1.40
36	bE	610	CLA	C1D-ND	3.41	1.42	1.37
33	LK	201	CYC	C2C-C1C	-3.41	1.49	1.52
33	d9	201	CYC	CHB-C4A	3.41	1.48	1.40
47	V1	201	HEM	C4D-ND	-3.41	1.34	1.40
33	f8	201	CYC	CHB-C4A	3.41	1.48	1.40
45	dE	402	PHO	C3C-C2C	3.41	1.47	1.37
36	D1	404	CLA	C1D-ND	3.41	1.42	1.37
33	RB	201	CYC	C2C-C1C	-3.41	1.49	1.52
36	c1	514	CLA	C1D-ND	3.41	1.42	1.37
33	hK	201	CYC	C4B-NB	-3.41	1.30	1.38
33	AG	201	CYC	C3D-C2D	3.41	1.47	1.37
36	bD	607	CLA	C4D-ND	-3.41	1.33	1.37
33	d3	201	CYC	CHB-C4A	3.41	1.48	1.40
33	fH	201	CYC	CHB-C4A	3.41	1.48	1.40
33	LK	201	CYC	CHB-C4A	3.41	1.48	1.40
33	f7	201	CYC	CHB-C4A	3.41	1.48	1.40
33	XF	201	CYC	C3D-C2D	3.41	1.47	1.37
33	dI	201	CYC	CHB-C4A	3.40	1.48	1.40
33	b7	201	CYC	CHB-C4A	3.40	1.48	1.40
36	DD	406	CLA	C4D-ND	-3.40	1.33	1.37
33	RG	201	CYC	C1C-NC	-3.40	1.33	1.37
33	fC	201	CYC	CHB-C4A	3.40	1.48	1.40
36	iD	101	CLA	C4D-ND	-3.40	1.33	1.37
33	fI	201	CYC	CHB-C4A	3.40	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	ML	201	CYC	CHB-C1B	3.40	1.46	1.38
33	qB	201	CYC	C3D-C2D	3.40	1.47	1.37
45	DD	403	PHO	C3C-C2C	3.40	1.47	1.37
36	CE	509	CLA	C1D-ND	3.40	1.42	1.37
45	DE	403	PHO	C3C-C2C	3.40	1.47	1.37
33	XB	201	CYC	C3D-C2D	3.40	1.47	1.37
36	bE	603	CLA	C1D-ND	3.40	1.42	1.37
36	B1	601	CLA	C4D-ND	-3.40	1.33	1.37
33	CB	1002	CYC	C2C-C1C	-3.40	1.49	1.52
36	c1	506	CLA	C4D-ND	-3.39	1.33	1.37
33	u4	201	CYC	C3D-C2D	3.39	1.47	1.37
47	VE	201	HEM	C4D-ND	-3.39	1.34	1.40
36	CE	514	CLA	C1D-ND	3.39	1.42	1.37
33	dH	201	CYC	CHB-C4A	3.39	1.48	1.40
33	XK	201	CYC	C3D-C2D	3.39	1.47	1.37
36	BE	614	CLA	C4D-ND	-3.39	1.33	1.37
45	DD	401	PHO	C3D-C2D	3.39	1.45	1.39
33	d7	201	CYC	CHB-C4A	3.39	1.48	1.40
33	b9	201	CYC	CHB-C4A	3.39	1.48	1.40
33	RL	201	CYC	C1C-NC	-3.39	1.33	1.37
36	BD	609	CLA	C4D-ND	-3.39	1.33	1.37
36	iE	101	CLA	C4D-ND	-3.39	1.33	1.37
33	MG	201	CYC	CHB-C1B	3.39	1.46	1.38
33	d2	201	CYC	CHB-C4A	3.39	1.48	1.40
33	f6	201	CYC	CHB-C4A	3.39	1.48	1.40
33	dK	201	CYC	C4B-NB	-3.39	1.30	1.38
33	d8	201	CYC	CHB-C4A	3.39	1.48	1.40
33	jJ	201	CYC	CHB-C4A	3.39	1.48	1.40
33	LK	201	CYC	C3D-C2D	3.39	1.47	1.37
36	bD	610	CLA	C4D-ND	-3.39	1.33	1.37
33	d6	201	CYC	CHB-C4A	3.39	1.48	1.40
33	X4	201	CYC	C3D-C2D	3.39	1.47	1.37
33	j9	201	CYC	CHB-C4A	3.39	1.48	1.40
33	dJ	201	CYC	CHB-C4A	3.39	1.48	1.40
36	bE	612	CLA	C1D-ND	3.39	1.41	1.37
36	a1	406	CLA	C4D-ND	-3.39	1.33	1.37
47	VD	201	HEM	C4D-ND	-3.39	1.34	1.40
33	f3	201	CYC	CHB-C4A	3.39	1.48	1.40
33	Z4	201	CYC	C3D-C2D	3.39	1.47	1.37
36	bE	603	CLA	C4D-ND	-3.39	1.33	1.37
33	LF	201	CYC	C3D-C2D	3.39	1.47	1.37
36	BE	601	CLA	C4D-ND	-3.38	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	f9	201	CYC	CHB-C4A	3.38	1.48	1.40
33	q4	201	CYC	C3D-C2D	3.38	1.47	1.37
36	b1	607	CLA	C4D-ND	-3.38	1.33	1.37
33	dA	201	CYC	CHB-C4A	3.38	1.48	1.40
36	B1	613	CLA	C4D-ND	-3.38	1.33	1.37
33	bA	201	CYC	CHB-C4A	3.38	1.48	1.40
33	jH	201	CYC	CHB-C4A	3.38	1.48	1.40
36	cD	503	CLA	C4D-ND	-3.38	1.33	1.37
33	j2	201	CYC	CHB-C4A	3.38	1.48	1.40
36	d1	403	CLA	C1D-ND	3.38	1.41	1.37
33	NF	101	CYC	C2C-C1C	-3.38	1.49	1.52
36	B1	609	CLA	C4D-ND	-3.38	1.33	1.37
36	cE	513	CLA	C4D-ND	-3.38	1.33	1.37
45	DE	401	PHO	C3D-C2D	3.38	1.45	1.39
33	QG	201	CYC	C2A-C3A	3.38	1.43	1.36
33	cF	201	CYC	CHB-C4A	3.38	1.48	1.40
33	cK	201	CYC	CHB-C4A	3.38	1.48	1.40
33	j3	201	CYC	CHB-C4A	3.37	1.48	1.40
33	jI	201	CYC	CHB-C4A	3.37	1.48	1.40
36	bD	603	CLA	C1D-ND	3.37	1.41	1.37
36	BE	613	CLA	C4D-ND	-3.37	1.33	1.37
33	QL	201	CYC	C2A-C3A	3.37	1.43	1.36
36	CD	503	CLA	C1D-ND	3.37	1.41	1.37
33	j5	201	CYC	CHB-C4A	3.37	1.48	1.40
33	ZB	201	CYC	C3D-C2D	3.37	1.47	1.37
36	cD	514	CLA	C1D-ND	3.37	1.41	1.37
36	aE	406	CLA	C4D-ND	-3.37	1.33	1.37
33	b5	201	CYC	CHB-C4A	3.37	1.48	1.40
33	j8	201	CYC	CHB-C4A	3.37	1.48	1.40
36	b1	603	CLA	C1D-ND	3.37	1.41	1.37
33	W4	201	CYC	C3D-C2D	3.37	1.47	1.37
36	a1	407	CLA	C4D-ND	-3.37	1.33	1.37
36	DD	405	CLA	C1D-ND	3.37	1.41	1.37
36	CD	509	CLA	C1D-ND	3.37	1.41	1.37
33	B4	1003	CYC	C2C-C1C	-3.37	1.49	1.52
36	CD	512	CLA	C1D-ND	3.37	1.41	1.37
36	CD	509	CLA	C4D-ND	-3.37	1.33	1.37
33	jC	201	CYC	CHB-C4A	3.37	1.48	1.40
33	1G	201	CYC	C2C-C1C	-3.36	1.49	1.52
33	WB	201	CYC	C3D-C2D	3.36	1.47	1.37
36	BE	612	CLA	C1D-ND	3.36	1.41	1.37
36	cE	503	CLA	C4D-ND	-3.36	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BD	601	CLA	C4D-ND	-3.36	1.33	1.37
33	IF	201	CYC	C1B-NB	-3.36	1.32	1.37
36	B1	612	CLA	C1D-ND	3.36	1.41	1.37
45	A1	412	PHO	C12-C13	3.36	1.70	1.52
36	CE	509	CLA	C4D-ND	-3.36	1.33	1.37
33	WB	201	CYC	CHB-C4A	3.36	1.48	1.40
36	cE	514	CLA	C1D-ND	3.36	1.41	1.37
45	DD	403	PHO	C3D-C2D	3.36	1.45	1.39
36	BD	613	CLA	C4D-ND	-3.35	1.33	1.37
33	j6	201	CYC	CHB-C4A	3.35	1.48	1.40
36	BE	601	CLA	C1D-ND	3.35	1.41	1.37
45	aE	412	PHO	C3D-C2D	3.35	1.45	1.39
36	h1	101	CLA	C1D-ND	3.35	1.41	1.37
33	C4	1002	CYC	CHB-C4A	3.35	1.48	1.40
33	jA	201	CYC	CHB-C4A	3.35	1.48	1.40
36	aD	406	CLA	C4D-ND	-3.35	1.33	1.37
33	aB	201	CYC	C1C-NC	-3.35	1.33	1.37
36	A1	405	CLA	C1D-ND	3.35	1.41	1.37
33	B4	1002	CYC	C2C-C1C	-3.35	1.49	1.52
36	b1	613	CLA	C1D-ND	3.35	1.41	1.37
33	CB	1002	CYC	CHB-C4A	3.35	1.48	1.40
36	DE	405	CLA	C1D-ND	3.35	1.41	1.37
36	H1	101	CLA	C1D-ND	3.35	1.41	1.37
33	IK	201	CYC	C1B-NB	-3.34	1.32	1.37
33	W4	201	CYC	CHB-C4A	3.34	1.48	1.40
33	a4	201	CYC	C1C-NC	-3.34	1.33	1.37
36	BE	609	CLA	C4D-ND	-3.34	1.33	1.37
36	CE	512	CLA	C1D-ND	3.34	1.41	1.37
36	C1	512	CLA	C1D-ND	3.34	1.41	1.37
33	P4	201	CYC	CHB-C4A	3.34	1.48	1.40
33	OB	201	CYC	C1C-NC	-3.34	1.33	1.37
33	BB	1001	CYC	C3D-C2D	3.34	1.47	1.37
36	C1	509	CLA	C4D-ND	-3.34	1.33	1.37
36	C1	510	CLA	C3D-C4D	3.34	1.51	1.44
36	dE	403	CLA	C1D-ND	3.34	1.41	1.37
45	D1	402	PHO	C3D-C2D	3.34	1.45	1.39
36	c1	512	CLA	C1D-ND	3.33	1.41	1.37
36	bE	613	CLA	C1D-ND	3.33	1.41	1.37
33	TG	201	CYC	C3D-C2D	3.33	1.47	1.37
33	B4	1001	CYC	C3D-C2D	3.33	1.47	1.37
36	cD	512	CLA	C4D-ND	-3.33	1.33	1.37
36	C1	509	CLA	C1D-ND	3.33	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	H1	102	CLA	C1D-ND	3.33	1.41	1.37
33	hJ	201	CYC	CHB-C4A	3.33	1.48	1.40
33	TL	201	CYC	C3D-C2D	3.33	1.47	1.37
36	hD	101	CLA	C1D-ND	3.33	1.41	1.37
45	aD	412	PHO	C10-C8	-3.33	1.35	1.52
36	C1	514	CLA	C1D-ND	3.32	1.41	1.37
45	DE	403	PHO	C3D-C2D	3.32	1.45	1.39
45	d1	402	PHO	C1A-C2A	-3.32	1.46	1.51
36	d1	405	CLA	C1D-ND	3.32	1.41	1.37
36	CD	510	CLA	C3D-C4D	3.32	1.51	1.44
33	C4	1002	CYC	C2C-C1C	-3.32	1.49	1.52
36	CE	510	CLA	C3D-C4D	3.32	1.51	1.44
36	BD	603	CLA	C1D-ND	3.32	1.41	1.37
36	CE	505	CLA	C4D-ND	-3.32	1.33	1.37
36	C1	514	CLA	C4D-ND	-3.32	1.33	1.37
36	bD	613	CLA	C1D-ND	3.32	1.41	1.37
36	dD	403	CLA	C1D-ND	3.32	1.41	1.37
36	C1	504	CLA	C4D-ND	-3.32	1.33	1.37
36	B1	603	CLA	C1D-ND	3.32	1.41	1.37
36	dE	405	CLA	C1D-ND	3.32	1.41	1.37
45	a1	413	PHO	C3D-C2D	3.32	1.45	1.39
36	aE	405	CLA	C4D-ND	-3.32	1.33	1.37
36	cE	512	CLA	C1D-ND	3.32	1.41	1.37
33	h9	201	CYC	CHB-C4A	3.32	1.48	1.40
36	aD	405	CLA	C4D-ND	-3.32	1.33	1.37
36	BD	601	CLA	C1D-ND	3.31	1.41	1.37
36	CD	511	CLA	C1D-ND	3.31	1.41	1.37
36	CE	511	CLA	C1D-ND	3.31	1.41	1.37
36	B1	601	CLA	C1D-ND	3.31	1.41	1.37
36	h1	102	CLA	C1D-ND	3.31	1.41	1.37
36	C1	505	CLA	C4D-ND	-3.31	1.33	1.37
36	bD	603	CLA	C4D-ND	-3.31	1.33	1.37
36	CD	514	CLA	C1D-ND	3.31	1.41	1.37
36	cD	512	CLA	C1D-ND	3.31	1.41	1.37
36	C1	511	CLA	C1D-ND	3.31	1.41	1.37
33	PG	201	CYC	C1B-NB	-3.31	1.32	1.37
36	HD	101	CLA	C1D-ND	3.31	1.41	1.37
36	CD	504	CLA	C4D-ND	-3.31	1.33	1.37
36	cE	512	CLA	C4D-ND	-3.31	1.33	1.37
36	AD	405	CLA	C1D-ND	3.31	1.41	1.37
33	PB	201	CYC	CHB-C4A	3.31	1.48	1.40
33	O4	201	CYC	C1C-NC	-3.31	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BD	608	CLA	C1D-ND	3.31	1.41	1.37
33	hA	201	CYC	CHB-C4A	3.30	1.48	1.40
33	1L	201	CYC	C2C-C1C	-3.30	1.49	1.52
33	h5	201	CYC	CHB-C4A	3.30	1.48	1.40
36	HD	102	CLA	C1D-ND	3.30	1.41	1.37
33	YK	201	CYC	C2C-C1C	-3.30	1.49	1.52
33	h7	201	CYC	CHB-C4A	3.30	1.48	1.40
36	dD	405	CLA	C1D-ND	3.30	1.41	1.37
36	hE	102	CLA	C1D-ND	3.30	1.41	1.37
36	IE	101	CLA	C4D-ND	-3.30	1.33	1.37
33	h8	201	CYC	CHB-C4A	3.30	1.48	1.40
33	SB	201	CYC	C3D-C2D	3.30	1.47	1.37
36	c1	512	CLA	C4D-ND	-3.30	1.33	1.37
36	HE	101	CLA	C1D-ND	3.30	1.41	1.37
36	bD	614	CLA	C4D-ND	-3.30	1.33	1.37
36	C1	513	CLA	C4D-ND	-3.29	1.33	1.37
45	A1	412	PHO	C7-C8	3.29	1.69	1.52
36	BE	608	CLA	C1D-ND	3.29	1.41	1.37
36	b1	614	CLA	C4D-ND	-3.29	1.33	1.37
33	hH	201	CYC	CHB-C4A	3.29	1.48	1.40
33	hI	201	CYC	CHB-C4A	3.29	1.48	1.40
36	BD	612	CLA	C1D-ND	3.29	1.41	1.37
36	cD	511	CLA	C1D-ND	3.29	1.41	1.37
36	hE	101	CLA	C1D-ND	3.29	1.41	1.37
33	PL	201	CYC	C1B-NB	-3.29	1.32	1.37
36	B1	608	CLA	C1D-ND	3.29	1.41	1.37
33	h6	201	CYC	CHB-C4A	3.28	1.48	1.40
33	VG	201	CYC	C3D-C2D	3.28	1.47	1.37
36	HE	102	CLA	C1D-ND	3.28	1.41	1.37
33	S4	201	CYC	C3D-C2D	3.28	1.47	1.37
33	mK	201	CYC	C3D-C2D	3.28	1.47	1.37
36	hD	102	CLA	C1D-ND	3.28	1.41	1.37
33	VL	201	CYC	C3D-C2D	3.28	1.47	1.37
33	CB	1003	CYC	C2C-C1C	-3.28	1.49	1.52
33	h3	201	CYC	CHB-C4A	3.28	1.48	1.40
33	dF	201	CYC	C2C-C1C	-3.28	1.49	1.52
33	hC	201	CYC	CHB-C4A	3.27	1.48	1.40
38	c1	501	SQD	C6-S	-3.27	1.65	1.77
33	WG	201	CYC	C2C-C1C	-3.27	1.49	1.52
36	c1	511	CLA	C1D-ND	3.27	1.41	1.37
36	bD	605	CLA	C1D-ND	3.27	1.41	1.37
33	eF	201	CYC	C1B-NB	-3.27	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	mF	201	CYC	C3D-C2D	3.27	1.47	1.37
36	CD	514	CLA	C4D-ND	-3.27	1.33	1.37
33	BB	1002	CYC	C2C-C1C	-3.27	1.49	1.52
36	cE	511	CLA	C1D-ND	3.27	1.41	1.37
36	a1	407	CLA	C1D-ND	3.26	1.41	1.37
36	aE	406	CLA	C1D-ND	3.26	1.41	1.37
38	cD	502	SQD	C6-S	-3.26	1.65	1.77
36	bE	614	CLA	C4D-ND	-3.26	1.33	1.37
36	CD	505	CLA	C4D-ND	-3.26	1.33	1.37
36	ID	101	CLA	C4D-ND	-3.26	1.33	1.37
33	TG	201	CYC	C2C-C1C	-3.26	1.49	1.52
45	DE	401	PHO	C3C-C2C	3.26	1.47	1.37
38	cE	502	SQD	C6-S	-3.26	1.65	1.77
33	h2	201	CYC	CHB-C4A	3.26	1.48	1.40
33	YF	201	CYC	C2C-C1C	-3.26	1.49	1.52
36	C1	515	CLA	C4D-ND	-3.26	1.33	1.37
36	CE	514	CLA	C4D-ND	-3.26	1.33	1.37
36	AE	405	CLA	C1D-ND	3.25	1.41	1.37
33	C4	1003	CYC	C2C-C1C	-3.25	1.49	1.52
36	BE	603	CLA	C1D-ND	3.25	1.41	1.37
36	I1	101	CLA	C4D-ND	-3.25	1.33	1.37
36	CE	504	CLA	C4D-ND	-3.25	1.33	1.37
33	AL	201	CYC	CHB-C4A	3.25	1.48	1.40
45	aD	412	PHO	C3C-C2C	3.25	1.47	1.37
33	eK	201	CYC	C1B-NB	-3.25	1.32	1.37
36	CD	515	CLA	C4D-ND	-3.25	1.33	1.37
36	CE	505	CLA	C1D-ND	3.24	1.41	1.37
36	bE	609	CLA	C4D-ND	-3.24	1.33	1.37
36	CD	508	CLA	C1D-ND	3.24	1.41	1.37
33	WL	201	CYC	C2C-C1C	-3.24	1.49	1.52
36	aD	406	CLA	C1D-ND	3.24	1.41	1.37
36	CD	505	CLA	C1D-ND	3.24	1.41	1.37
33	Q4	201	CYC	C3D-C2D	3.24	1.47	1.37
36	bD	609	CLA	C4D-ND	-3.24	1.33	1.37
36	C1	505	CLA	C1D-ND	3.24	1.41	1.37
36	B1	604	CLA	C4D-ND	-3.24	1.33	1.37
36	b1	603	CLA	C4D-ND	-3.24	1.33	1.37
33	AG	201	CYC	CHB-C4A	3.23	1.48	1.40
36	bE	606	CLA	C4D-ND	-3.23	1.33	1.37
33	hK	201	CYC	C2C-C1C	-3.23	1.49	1.52
36	bE	605	CLA	C1D-ND	3.23	1.41	1.37
36	CE	515	CLA	C4D-ND	-3.23	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	CE	513	CLA	C4D-ND	-3.23	1.33	1.37
36	C1	513	CLA	C1D-ND	3.22	1.41	1.37
36	b1	609	CLA	C4D-ND	-3.22	1.33	1.37
33	QB	201	CYC	C3D-C2D	3.22	1.47	1.37
36	C1	508	CLA	C1D-ND	3.22	1.41	1.37
36	c1	507	CLA	CMB-C2B	-3.22	1.44	1.51
45	dE	402	PHO	CBD-CGD	-3.22	1.48	1.52
45	A1	412	PHO	C3C-C2C	3.22	1.47	1.37
33	TL	201	CYC	C2C-C1C	-3.22	1.49	1.52
33	dK	201	CYC	C2C-C1C	-3.22	1.49	1.52
36	xE	101	CLA	C1D-ND	3.22	1.41	1.37
33	7L	201	CYC	C1B-C2B	3.22	1.50	1.45
36	bD	606	CLA	C4D-ND	-3.21	1.33	1.37
33	IG	201	CYC	C3D-C2D	3.21	1.47	1.37
36	CD	513	CLA	C4D-ND	-3.21	1.33	1.37
36	CE	508	CLA	C1D-ND	3.21	1.41	1.37
36	x1	101	CLA	C1D-ND	3.21	1.41	1.37
36	xD	101	CLA	C1D-ND	3.21	1.41	1.37
36	bE	608	CLA	C1D-ND	3.21	1.41	1.37
33	3F	102	CYC	C2C-C1C	-3.21	1.49	1.52
33	nK	201	CYC	C4C-NC	-3.20	1.30	1.37
33	3K	102	CYC	C2C-C1C	-3.20	1.49	1.52
36	b1	605	CLA	C1D-ND	3.20	1.41	1.37
36	B1	606	CLA	C1D-ND	3.20	1.41	1.37
45	DD	401	PHO	C3C-C2C	3.20	1.47	1.37
33	IL	201	CYC	C3D-C2D	3.20	1.47	1.37
33	NG	201	CYC	CHB-C4A	3.20	1.47	1.40
33	7G	201	CYC	C1B-C2B	3.20	1.50	1.45
33	hF	201	CYC	C2C-C1C	-3.20	1.49	1.52
36	cD	507	CLA	CMB-C2B	-3.20	1.45	1.51
36	BD	604	CLA	C4D-ND	-3.19	1.33	1.37
36	AE	404	CLA	CMC-C2C	-3.19	1.44	1.50
33	VG	201	CYC	OC-C1C	3.19	1.29	1.23
33	NL	201	CYC	CHB-C4A	3.19	1.47	1.40
33	o4	201	CYC	C3D-C2D	3.19	1.47	1.37
33	7G	201	CYC	C4C-NC	-3.19	1.30	1.37
33	3F	102	CYC	CHB-C4A	3.19	1.47	1.40
36	b1	606	CLA	C4D-ND	-3.19	1.33	1.37
33	7L	201	CYC	C4C-NC	-3.19	1.30	1.37
33	JG	201	CYC	C2C-C1C	-3.19	1.49	1.52
36	cE	507	CLA	CMB-C2B	-3.19	1.45	1.51
36	XD	101	CLA	C1D-ND	3.19	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	4G	201	CYC	C3D-C2D	3.19	1.47	1.37
36	X1	101	CLA	C1D-ND	3.18	1.41	1.37
36	A1	404	CLA	CMC-C2C	-3.18	1.44	1.50
33	NG	201	CYC	C3D-C2D	3.18	1.47	1.37
33	4L	201	CYC	C3D-C2D	3.18	1.47	1.37
36	H1	101	CLA	CMB-C2B	-3.18	1.45	1.51
33	VL	201	CYC	OC-C1C	3.18	1.29	1.23
36	AD	404	CLA	CMC-C2C	-3.18	1.44	1.50
36	b1	608	CLA	C1D-ND	3.18	1.41	1.37
36	C1	511	CLA	C4D-ND	-3.18	1.33	1.37
36	BD	607	CLA	C4D-ND	-3.17	1.33	1.37
33	b4	101	CYC	C3D-C2D	3.17	1.47	1.37
33	dF	201	CYC	C1B-C2B	3.17	1.50	1.45
36	CD	512	CLA	C4D-ND	-3.17	1.33	1.37
33	HG	201	CYC	C3D-C2D	3.17	1.47	1.37
33	bB	101	CYC	C3D-C2D	3.17	1.47	1.37
36	CD	513	CLA	C1D-ND	3.17	1.41	1.37
33	NL	201	CYC	C3D-C2D	3.17	1.47	1.37
33	nF	201	CYC	C4C-NC	-3.17	1.30	1.37
36	CE	513	CLA	C1D-ND	3.17	1.41	1.37
33	oB	201	CYC	C3D-C2D	3.17	1.47	1.37
36	AE	404	CLA	C1D-ND	3.17	1.41	1.37
33	3K	102	CYC	CHB-C4A	3.17	1.47	1.40
33	o4	201	CYC	C2C-C1C	-3.17	1.49	1.52
33	nF	201	CYC	C3D-C2D	3.16	1.47	1.37
33	dK	201	CYC	C1B-C2B	3.16	1.50	1.45
33	HL	201	CYC	C3D-C2D	3.16	1.47	1.37
36	BE	607	CLA	C4D-ND	-3.16	1.33	1.37
33	oB	201	CYC	C2C-C1C	-3.16	1.49	1.52
36	BD	606	CLA	C1D-ND	3.16	1.41	1.37
36	XE	101	CLA	C1D-ND	3.16	1.41	1.37
36	CD	511	CLA	C4D-ND	-3.16	1.33	1.37
33	hK	201	CYC	C4A-C3A	3.16	1.52	1.45
33	mK	201	CYC	OC-C1C	3.15	1.29	1.23
33	mF	201	CYC	OC-C1C	3.15	1.29	1.23
33	nK	201	CYC	C3D-C2D	3.15	1.47	1.37
36	C1	512	CLA	C4D-ND	-3.15	1.33	1.37
33	gK	201	CYC	C2C-C1C	-3.15	1.49	1.52
36	bD	608	CLA	C1D-ND	3.15	1.41	1.37
36	CE	512	CLA	C4D-ND	-3.15	1.33	1.37
45	DE	403	PHO	C14-C13	-3.15	1.42	1.52
33	aF	201	CYC	CHB-C4A	3.15	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BE	604	CLA	C4D-ND	-3.14	1.33	1.37
36	HD	101	CLA	CMB-C2B	-3.14	1.45	1.51
36	B1	607	CLA	C4D-ND	-3.14	1.33	1.37
36	AD	404	CLA	C1D-ND	3.14	1.41	1.37
45	d1	402	PHO	C15-C13	3.14	1.69	1.52
36	HE	101	CLA	CMB-C2B	-3.14	1.45	1.51
33	RB	201	CYC	C3D-C2D	3.14	1.47	1.37
33	hI	201	CYC	C2C-C1C	-3.14	1.49	1.52
36	h1	101	CLA	CMB-C2B	-3.13	1.45	1.51
33	hF	201	CYC	C4A-C3A	3.13	1.52	1.45
33	R4	201	CYC	C3D-C2D	3.13	1.46	1.37
33	jK	201	CYC	C3D-C2D	3.13	1.46	1.37
33	h7	201	CYC	C2C-C1C	-3.13	1.49	1.52
33	dF	201	CYC	C4A-C3A	3.13	1.52	1.45
33	h5	201	CYC	C2C-C1C	-3.13	1.49	1.52
33	jF	201	CYC	C3D-C2D	3.13	1.46	1.37
36	CE	511	CLA	C4D-ND	-3.13	1.33	1.37
33	ZF	201	CYC	C4C-NC	-3.13	1.30	1.37
33	1G	201	CYC	C4A-C3A	3.13	1.52	1.45
33	3F	102	CYC	C3D-C2D	3.12	1.46	1.37
33	OL	201	CYC	C1B-NB	-3.12	1.32	1.37
33	JL	201	CYC	C2C-C1C	-3.12	1.49	1.52
33	3K	102	CYC	C3D-C2D	3.12	1.46	1.37
45	dD	402	PHO	CBD-CGD	-3.12	1.48	1.52
33	hK	201	CYC	C1B-C2B	3.12	1.50	1.45
33	aK	201	CYC	CHB-C4A	3.12	1.47	1.40
33	YK	201	CYC	C4A-C3A	3.11	1.52	1.45
33	bK	201	CYC	C4C-NC	-3.11	1.30	1.37
33	YF	201	CYC	C4A-C3A	3.11	1.52	1.45
38	CD	501	SQD	C6-S	-3.11	1.65	1.77
33	ZK	201	CYC	C4C-NC	-3.11	1.30	1.37
33	bK	201	CYC	C3D-C2D	3.11	1.46	1.37
38	CE	501	SQD	C6-S	-3.11	1.65	1.77
38	dD	414	SQD	C6-S	-3.11	1.65	1.77
33	QG	201	CYC	C2C-C1C	-3.11	1.49	1.52
36	c1	513	CLA	C1D-ND	3.11	1.41	1.37
33	BB	1003	CYC	C3D-C2D	3.11	1.46	1.37
33	bF	201	CYC	C3D-C2D	3.11	1.46	1.37
38	d1	414	SQD	C6-S	-3.11	1.65	1.77
33	b6	201	CYC	C2C-C1C	-3.10	1.49	1.52
33	dK	201	CYC	C4A-C3A	3.10	1.52	1.45
33	OG	201	CYC	C1B-NB	-3.10	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	A1	404	CLA	C1D-ND	3.10	1.41	1.37
36	A1	405	CLA	C4D-ND	-3.10	1.33	1.37
38	C1	501	SQD	C6-S	-3.10	1.66	1.77
36	IE	101	CLA	C1D-ND	3.10	1.41	1.37
33	JG	201	CYC	C3D-C2D	3.10	1.46	1.37
38	D1	413	SQD	C6-S	-3.10	1.66	1.77
38	DD	414	SQD	C6-S	-3.10	1.66	1.77
36	BE	606	CLA	C1D-ND	3.10	1.41	1.37
36	hD	101	CLA	CMB-C2B	-3.10	1.45	1.51
33	YK	201	CYC	C1B-C2B	3.10	1.50	1.45
33	hF	201	CYC	C1B-C2B	3.10	1.50	1.45
36	ID	101	CLA	C1D-ND	3.09	1.41	1.37
33	B4	1004	CYC	C3D-C2D	3.09	1.46	1.37
36	AE	405	CLA	C4D-ND	-3.09	1.33	1.37
36	AD	405	CLA	C4D-ND	-3.09	1.33	1.37
33	B4	1003	CYC	C3D-C2D	3.09	1.46	1.37
38	DE	414	SQD	C6-S	-3.09	1.66	1.77
33	5L	201	CYC	C3D-C2D	3.09	1.46	1.37
33	bF	201	CYC	C4C-NC	-3.09	1.30	1.37
36	cD	513	CLA	C1D-ND	3.09	1.41	1.37
33	BB	1004	CYC	C3D-C2D	3.09	1.46	1.37
33	yB	201	CYC	CHB-C4A	3.09	1.47	1.40
33	ZK	201	CYC	C2C-C1C	-3.09	1.49	1.52
33	1L	201	CYC	C4A-C3A	3.09	1.52	1.45
38	dE	414	SQD	C6-S	-3.09	1.66	1.77
33	JL	201	CYC	C3D-C2D	3.09	1.46	1.37
33	y4	201	CYC	CHB-C4A	3.08	1.47	1.40
33	YF	201	CYC	C1B-C2B	3.08	1.50	1.45
33	NF	101	CYC	C3D-C2D	3.08	1.46	1.37
33	h3	201	CYC	C2C-C1C	-3.08	1.49	1.52
33	R4	201	CYC	C4C-NC	-3.08	1.30	1.37
33	5G	201	CYC	C3D-C2D	3.08	1.46	1.37
33	RB	201	CYC	C4C-NC	-3.08	1.30	1.37
33	hA	201	CYC	C2C-C1C	-3.08	1.49	1.52
33	gF	201	CYC	C2C-C1C	-3.08	1.49	1.52
33	IK	201	CYC	C3D-C2D	3.08	1.46	1.37
33	bI	201	CYC	C2C-C1C	-3.08	1.49	1.52
38	L1	102	SQD	C6-S	-3.08	1.66	1.77
33	HG	201	CYC	OB-C4B	3.08	1.29	1.23
36	C1	510	CLA	CMC-C2C	-3.07	1.44	1.50
36	BE	604	CLA	CMB-C2B	-3.07	1.45	1.51
33	h8	201	CYC	C2C-C1C	-3.07	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	hE	101	CLA	CMB-C2B	-3.07	1.45	1.51
33	WL	201	CYC	C3D-C2D	3.07	1.46	1.37
38	LD	102	SQD	C6-S	-3.07	1.66	1.77
36	I1	101	CLA	C1D-ND	3.07	1.41	1.37
36	CD	504	CLA	CMB-C2B	-3.07	1.45	1.51
36	IE	101	CLA	CHC-C1C	3.07	1.42	1.35
38	LD	101	SQD	C6-S	-3.07	1.66	1.77
38	L1	101	SQD	C6-S	-3.07	1.66	1.77
33	NK	101	CYC	C3D-C2D	3.07	1.46	1.37
36	CE	504	CLA	CMB-C2B	-3.07	1.45	1.51
36	c1	504	CLA	C1D-ND	3.06	1.41	1.37
33	V4	201	CYC	C3D-C2D	3.06	1.46	1.37
38	LE	102	SQD	C6-S	-3.06	1.66	1.77
33	XK	201	CYC	C1B-NB	-3.06	1.32	1.37
33	ZF	201	CYC	C2C-C1C	-3.06	1.49	1.52
33	h2	201	CYC	C2C-C1C	-3.06	1.49	1.52
36	H1	102	CLA	C4D-ND	-3.06	1.33	1.37
33	CB	1002	CYC	C3D-C2D	3.06	1.46	1.37
33	WG	201	CYC	C3D-C2D	3.06	1.46	1.37
36	ID	101	CLA	CHC-C1C	3.06	1.42	1.35
38	LE	101	SQD	C6-S	-3.06	1.66	1.77
33	IF	201	CYC	C3D-C2D	3.06	1.46	1.37
33	VB	201	CYC	C3D-C2D	3.06	1.46	1.37
33	C4	1002	CYC	C3D-C2D	3.05	1.46	1.37
33	9K	201	CYC	C3D-C2D	3.05	1.46	1.37
33	hH	201	CYC	C2C-C1C	-3.05	1.49	1.52
33	hC	201	CYC	C2C-C1C	-3.05	1.49	1.52
36	hE	102	CLA	C4D-ND	-3.05	1.33	1.37
36	BD	613	CLA	C1D-ND	3.05	1.41	1.37
36	C1	504	CLA	CMB-C2B	-3.05	1.45	1.51
36	C1	508	CLA	CMB-C2B	-3.05	1.45	1.51
36	BD	604	CLA	CMB-C2B	-3.04	1.45	1.51
36	HD	102	CLA	C4D-ND	-3.04	1.33	1.37
33	GL	201	CYC	C3D-C2D	3.04	1.46	1.37
36	cD	505	CLA	C1D-ND	3.04	1.41	1.37
38	AE	407	SQD	C6-S	-3.04	1.66	1.77
45	d1	402	PHO	C3D-C2D	3.04	1.44	1.39
36	bD	614	CLA	C1D-ND	3.04	1.41	1.37
36	CE	510	CLA	CMC-C2C	-3.04	1.44	1.50
33	HL	201	CYC	OB-C4B	3.04	1.29	1.23
36	B1	604	CLA	CMB-C2B	-3.04	1.45	1.51
36	CD	510	CLA	CMC-C2C	-3.04	1.44	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	QL	201	CYC	C2C-C1C	-3.04	1.49	1.52
45	DE	401	PHO	CAA-C2A	-3.04	1.47	1.54
33	PG	201	CYC	C4C-NC	-3.04	1.31	1.37
33	PL	201	CYC	C4C-NC	-3.04	1.31	1.37
33	d5	201	CYC	C2C-C1C	-3.03	1.49	1.52
36	B1	613	CLA	C1D-ND	3.03	1.41	1.37
36	I1	101	CLA	CHC-C1C	3.03	1.42	1.35
33	7L	201	CYC	C1B-NB	-3.03	1.32	1.37
36	hD	102	CLA	C4D-ND	-3.03	1.33	1.37
36	CD	508	CLA	CMB-C2B	-3.03	1.45	1.51
36	B1	607	CLA	CMD-C2D	-3.03	1.44	1.50
33	9F	201	CYC	C4C-NC	-3.03	1.31	1.37
33	9F	201	CYC	C3D-C2D	3.03	1.46	1.37
36	cE	513	CLA	C1D-ND	3.03	1.41	1.37
33	h9	201	CYC	C2C-C1C	-3.03	1.49	1.52
33	XF	201	CYC	C1B-NB	-3.03	1.32	1.37
33	GG	201	CYC	C3D-C2D	3.03	1.46	1.37
38	AD	407	SQD	C6-S	-3.03	1.66	1.77
36	BE	613	CLA	C1D-ND	3.03	1.41	1.37
33	5G	201	CYC	C1B-NB	-3.02	1.32	1.37
33	5L	201	CYC	C1B-NB	-3.02	1.32	1.37
36	cD	510	CLA	C3B-C2B	-3.02	1.36	1.40
36	BE	611	CLA	CHC-C1C	3.02	1.42	1.35
33	LG	201	CYC	C4C-NC	-3.02	1.31	1.37
36	C1	507	CLA	C1D-ND	3.02	1.41	1.37
33	6G	201	CYC	C4C-NC	-3.02	1.31	1.37
33	bA	201	CYC	C2C-C1C	-3.02	1.49	1.52
33	9K	201	CYC	C4C-NC	-3.02	1.31	1.37
36	c1	510	CLA	C3B-C2B	-3.02	1.36	1.40
36	BD	607	CLA	CMD-C2D	-3.02	1.44	1.50
33	fC	201	CYC	C2C-C1C	-3.02	1.49	1.52
33	hJ	201	CYC	C2C-C1C	-3.02	1.49	1.52
36	cE	505	CLA	CHC-C1C	3.02	1.42	1.35
33	LL	201	CYC	C4C-NC	-3.01	1.31	1.37
36	cE	509	CLA	C3D-C4D	3.01	1.51	1.44
33	h6	201	CYC	C2C-C1C	-3.01	1.49	1.52
33	6G	201	CYC	C2C-C1C	-3.01	1.49	1.52
36	CE	508	CLA	CMB-C2B	-3.01	1.45	1.51
33	vB	201	CYC	C3D-C2D	3.01	1.46	1.37
33	7L	201	CYC	C4B-NB	-3.01	1.31	1.38
33	zB	201	CYC	C3D-C2D	3.01	1.46	1.37
36	CD	507	CLA	C1D-ND	3.01	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	x1	101	CLA	CHC-C1C	3.01	1.42	1.35
36	BD	611	CLA	CHC-C1C	3.01	1.42	1.35
33	7G	201	CYC	C4B-NB	-3.01	1.31	1.38
33	PB	201	CYC	C2C-C1C	-3.01	1.49	1.52
33	b7	201	CYC	C2C-C1C	-3.01	1.49	1.52
36	B1	611	CLA	CHC-C1C	3.01	1.42	1.35
33	v4	201	CYC	C3D-C2D	3.01	1.46	1.37
33	z4	201	CYC	C3D-C2D	3.01	1.46	1.37
36	h1	102	CLA	C4D-ND	-3.01	1.33	1.37
33	IL	201	CYC	C4A-C3A	3.01	1.52	1.45
33	6L	201	CYC	C4C-NC	-3.00	1.31	1.37
36	CE	507	CLA	C1D-ND	3.00	1.41	1.37
36	aE	404	CLA	C1D-ND	3.00	1.41	1.37
33	MG	201	CYC	C3D-C2D	3.00	1.46	1.37
38	A1	407	SQD	C6-S	-3.00	1.66	1.77
33	6L	201	CYC	C2C-C1C	-3.00	1.49	1.52
33	OL	201	CYC	C1A-NA	-3.00	1.32	1.38
36	b1	609	CLA	CMD-C2D	-3.00	1.44	1.50
33	ML	201	CYC	C3D-C2D	3.00	1.46	1.37
33	f6	201	CYC	C2C-C1C	-3.00	1.49	1.52
33	dI	201	CYC	C2C-C1C	-3.00	1.49	1.52
36	bD	606	CLA	CMB-C2B	-3.00	1.45	1.51
33	B4	1001	CYC	C4C-NC	-3.00	1.31	1.37
36	HE	102	CLA	C4D-ND	-3.00	1.33	1.37
33	HL	201	CYC	C4C-NC	-3.00	1.31	1.37
33	bC	201	CYC	C2C-C1C	-3.00	1.49	1.52
33	s4	201	CYC	CHB-C4A	3.00	1.47	1.40
33	bH	201	CYC	C2C-C1C	-3.00	1.49	1.52
33	7G	201	CYC	C1B-NB	-3.00	1.32	1.37
36	BE	607	CLA	CMD-C2D	-3.00	1.44	1.50
36	BD	610	CLA	C1D-ND	2.99	1.41	1.37
36	c1	508	CLA	C1D-ND	2.99	1.41	1.37
33	b5	201	CYC	C2C-C1C	-2.99	1.49	1.52
33	sB	201	CYC	CHB-C4A	2.99	1.47	1.40
36	aD	404	CLA	C1D-ND	2.99	1.41	1.37
36	cD	505	CLA	CHC-C1C	2.99	1.42	1.35
36	bE	611	CLA	C3B-C2B	-2.99	1.36	1.40
36	xD	101	CLA	CHC-C1C	2.99	1.42	1.35
36	c1	509	CLA	C3D-C4D	2.99	1.50	1.44
36	bD	611	CLA	C3B-C2B	-2.99	1.36	1.40
33	fI	201	CYC	C2C-C1C	-2.99	1.49	1.52
36	bE	614	CLA	C1D-ND	2.99	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	b1	611	CLA	C3B-C2B	-2.99	1.36	1.40
36	cD	509	CLA	C3D-C4D	2.99	1.50	1.44
33	OG	201	CYC	C1A-NA	-2.99	1.32	1.38
33	BB	1001	CYC	C4C-NC	-2.99	1.31	1.37
36	bE	606	CLA	CMB-C2B	-2.99	1.45	1.51
36	c1	510	CLA	CMD-C2D	-2.98	1.44	1.50
33	IG	201	CYC	C4A-C3A	2.98	1.52	1.45
36	a1	405	CLA	C1D-ND	2.98	1.41	1.37
36	xE	101	CLA	CHC-C1C	2.98	1.42	1.35
33	3F	101	CYC	C1B-C2B	2.98	1.50	1.45
36	bD	609	CLA	CMD-C2D	-2.98	1.44	1.50
36	B1	610	CLA	C1D-ND	2.98	1.41	1.37
36	cD	510	CLA	CMD-C2D	-2.98	1.44	1.50
33	HG	201	CYC	C4C-NC	-2.98	1.31	1.37
33	d8	201	CYC	C2C-C1C	-2.98	1.49	1.52
33	3K	101	CYC	C1B-C2B	2.98	1.50	1.45
33	b2	201	CYC	C2C-C1C	-2.98	1.49	1.52
36	BD	610	CLA	C3B-C2B	-2.97	1.36	1.40
36	B1	610	CLA	C3B-C2B	-2.97	1.36	1.40
36	BE	610	CLA	C3B-C2B	-2.97	1.36	1.40
33	b8	201	CYC	C2C-C1C	-2.97	1.49	1.52
36	cE	510	CLA	C3B-C2B	-2.97	1.36	1.40
36	b1	614	CLA	C1D-ND	2.97	1.41	1.37
36	cE	505	CLA	C1D-ND	2.97	1.41	1.37
33	d2	201	CYC	C2C-C1C	-2.97	1.49	1.52
36	bE	609	CLA	CMD-C2D	-2.97	1.44	1.50
33	IL	201	CYC	C4B-NB	-2.97	1.31	1.38
36	bE	612	CLA	CHC-C1C	2.97	1.42	1.35
33	IG	201	CYC	C4B-NB	-2.97	1.31	1.38
36	BE	610	CLA	C1D-ND	2.97	1.41	1.37
33	ZF	201	CYC	C3D-C2D	2.97	1.46	1.37
36	aD	404	CLA	CMC-C2C	-2.97	1.44	1.50
36	cE	510	CLA	CMD-C2D	-2.97	1.44	1.50
36	b1	606	CLA	CMB-C2B	-2.96	1.45	1.51
36	CD	503	CLA	C4D-ND	-2.96	1.33	1.37
33	QL	201	CYC	C3D-C2D	2.96	1.46	1.37
36	c1	506	CLA	C1D-ND	2.96	1.41	1.37
33	f9	201	CYC	C2C-C1C	-2.96	1.49	1.52
36	bD	612	CLA	CHC-C1C	2.96	1.42	1.35
33	P4	201	CYC	C2C-C1C	-2.96	1.49	1.52
36	cE	510	CLA	CMB-C2B	-2.96	1.45	1.51
33	d9	201	CYC	C2C-C1C	-2.96	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	cD	510	CLA	CMB-C2B	-2.96	1.45	1.51
36	c1	504	CLA	CHC-C1C	2.96	1.42	1.35
33	j9	201	CYC	C2C-C1C	-2.96	1.49	1.52
36	AE	404	CLA	CMD-C2D	-2.96	1.44	1.50
33	ZK	201	CYC	C3D-C2D	2.96	1.46	1.37
33	Z4	201	CYC	C2C-C1C	-2.96	1.49	1.52
33	dJ	201	CYC	C2C-C1C	-2.96	1.49	1.52
33	dH	201	CYC	C2C-C1C	-2.96	1.49	1.52
33	jC	201	CYC	C3D-C2D	2.96	1.46	1.37
33	dJ	201	CYC	C3D-C2D	2.96	1.46	1.37
33	d3	201	CYC	C2C-C1C	-2.95	1.49	1.52
33	f3	201	CYC	C2C-C1C	-2.95	1.49	1.52
36	b1	612	CLA	CHC-C1C	2.95	1.42	1.35
36	dE	403	CLA	CHC-C1C	2.95	1.42	1.35
33	lC	201	CYC	C3D-C2D	2.95	1.46	1.37
33	2G	101	CYC	C3D-C2D	2.95	1.46	1.37
33	dA	201	CYC	C3D-C2D	2.95	1.46	1.37
33	dH	201	CYC	C3D-C2D	2.95	1.46	1.37
33	d6	201	CYC	C2C-C1C	-2.95	1.49	1.52
33	d2	201	CYC	C3D-C2D	2.95	1.46	1.37
36	iD	101	CLA	C1D-ND	2.95	1.41	1.37
36	A1	404	CLA	CMD-C2D	-2.95	1.44	1.50
33	jA	201	CYC	C3D-C2D	2.95	1.46	1.37
36	CD	515	CLA	CHC-C1C	2.95	1.42	1.35
33	yB	201	CYC	C3D-C2D	2.95	1.46	1.37
36	C1	515	CLA	CHC-C1C	2.95	1.42	1.35
36	aE	404	CLA	CMC-C2C	-2.95	1.44	1.50
36	CE	507	CLA	CHC-C1C	2.95	1.42	1.35
33	l7	201	CYC	C3D-C2D	2.95	1.46	1.37
36	a1	405	CLA	CMC-C2C	-2.94	1.44	1.50
40	dE	412	LMT	O3'-C3'	-2.94	1.36	1.43
33	j3	201	CYC	C2C-C1C	-2.94	1.49	1.52
33	aK	201	CYC	C3D-C2D	2.94	1.46	1.37
33	d9	201	CYC	C3D-C2D	2.94	1.46	1.37
33	fH	201	CYC	C2C-C1C	-2.94	1.49	1.52
36	iE	101	CLA	CHC-C1C	2.94	1.42	1.35
36	iE	101	CLA	C1D-ND	2.94	1.41	1.37
33	b3	201	CYC	C2C-C1C	-2.94	1.49	1.52
33	j7	201	CYC	C2C-C1C	-2.94	1.49	1.52
36	C1	507	CLA	CHC-C1C	2.94	1.42	1.35
33	QG	201	CYC	C3D-C2D	2.94	1.46	1.37
33	b2	201	CYC	C3D-C2D	2.94	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	ZB	201	CYC	C2C-C1C	-2.94	1.49	1.52
36	AD	404	CLA	CMD-C2D	-2.94	1.44	1.50
33	d8	201	CYC	C3D-C2D	2.94	1.46	1.37
33	fA	201	CYC	C2C-C1C	-2.94	1.49	1.52
33	jI	201	CYC	C3D-C2D	2.94	1.46	1.37
36	b1	613	CLA	CMB-C2B	-2.94	1.45	1.51
36	c1	510	CLA	CMB-C2B	-2.94	1.45	1.51
33	dC	201	CYC	C3D-C2D	2.94	1.46	1.37
36	CE	515	CLA	CHC-C1C	2.94	1.42	1.35
33	d7	201	CYC	C2C-C1C	-2.94	1.49	1.52
36	b1	611	CLA	C1D-ND	2.94	1.41	1.37
33	b7	201	CYC	C3D-C2D	2.94	1.46	1.37
33	j3	201	CYC	C3D-C2D	2.94	1.46	1.37
33	d7	201	CYC	C3D-C2D	2.94	1.46	1.37
33	j7	201	CYC	C3D-C2D	2.94	1.46	1.37
33	jH	201	CYC	C3D-C2D	2.93	1.46	1.37
36	XE	101	CLA	CHC-C1C	2.93	1.42	1.35
33	d5	201	CYC	C3D-C2D	2.93	1.46	1.37
33	j9	201	CYC	C3D-C2D	2.93	1.46	1.37
33	bC	201	CYC	C3D-C2D	2.93	1.46	1.37
33	dI	201	CYC	C3D-C2D	2.93	1.46	1.37
33	jJ	201	CYC	C3D-C2D	2.93	1.46	1.37
33	j8	201	CYC	C3D-C2D	2.93	1.46	1.37
33	l5	201	CYC	C3D-C2D	2.93	1.46	1.37
33	l9	201	CYC	C3D-C2D	2.93	1.46	1.37
33	aF	201	CYC	C3D-C2D	2.93	1.46	1.37
33	lA	201	CYC	C3D-C2D	2.93	1.46	1.37
33	gF	201	CYC	C3D-C2D	2.93	1.46	1.37
33	bH	201	CYC	C3D-C2D	2.93	1.46	1.37
33	dC	201	CYC	C2C-C1C	-2.93	1.49	1.52
33	wB	201	CYC	C3D-C2D	2.93	1.46	1.37
33	2L	101	CYC	C3D-C2D	2.93	1.46	1.37
33	j5	201	CYC	C3D-C2D	2.93	1.46	1.37
33	bJ	201	CYC	C3D-C2D	2.93	1.46	1.37
36	dD	403	CLA	CHC-C1C	2.93	1.42	1.35
36	iD	101	CLA	CHC-C1C	2.93	1.42	1.35
36	CE	503	CLA	C4D-ND	-2.93	1.33	1.37
36	C1	503	CLA	C4D-ND	-2.93	1.33	1.37
33	d3	201	CYC	C3D-C2D	2.93	1.46	1.37
33	l8	201	CYC	C3D-C2D	2.93	1.46	1.37
33	l2	201	CYC	C3D-C2D	2.93	1.46	1.37
33	f6	201	CYC	C3D-C2D	2.93	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	bA	201	CYC	C3D-C2D	2.93	1.46	1.37
33	II	201	CYC	C3D-C2D	2.93	1.46	1.37
45	DD	403	PHO	C3A-C2A	-2.93	1.52	1.54
33	bJ	201	CYC	C2C-C1C	-2.93	1.49	1.52
33	l3	201	CYC	C3D-C2D	2.93	1.46	1.37
36	d1	403	CLA	CHC-C1C	2.92	1.42	1.35
33	d6	201	CYC	C3D-C2D	2.92	1.46	1.37
33	lH	201	CYC	C3D-C2D	2.92	1.46	1.37
36	c1	506	CLA	CHC-C1C	2.92	1.42	1.35
33	y4	201	CYC	C3D-C2D	2.92	1.46	1.37
33	lJ	201	CYC	C3D-C2D	2.92	1.46	1.37
33	b9	201	CYC	C3D-C2D	2.92	1.46	1.37
33	gK	201	CYC	C3D-C2D	2.92	1.46	1.37
36	XD	101	CLA	CHC-C1C	2.92	1.42	1.35
33	b6	201	CYC	C3D-C2D	2.92	1.46	1.37
33	b5	201	CYC	C3D-C2D	2.92	1.46	1.37
33	fJ	201	CYC	C3D-C2D	2.92	1.46	1.37
33	C4	1001	CYC	CMD-C2D	2.92	1.57	1.51
33	j6	201	CYC	C3D-C2D	2.92	1.46	1.37
33	ZF	201	CYC	C1D-CHD	2.92	1.52	1.41
33	b9	201	CYC	C2C-C1C	-2.92	1.49	1.52
36	cD	508	CLA	C1D-ND	2.92	1.41	1.37
33	b8	201	CYC	C3D-C2D	2.92	1.46	1.37
36	CD	507	CLA	CHC-C1C	2.92	1.42	1.35
33	i8	202	CYC	OB-C4B	2.92	1.29	1.23
33	l6	201	CYC	C3D-C2D	2.92	1.46	1.37
33	fJ	201	CYC	C2C-C1C	-2.92	1.49	1.52
36	bD	613	CLA	CMB-C2B	-2.92	1.45	1.51
36	bD	611	CLA	C1D-ND	2.92	1.41	1.37
40	dD	412	LMT	O3'-C3'	-2.92	1.36	1.43
33	j6	201	CYC	C2C-C1C	-2.91	1.49	1.52
33	b3	201	CYC	C3D-C2D	2.91	1.46	1.37
33	w4	201	CYC	C3D-C2D	2.91	1.46	1.37
36	cE	513	CLA	CHC-C1C	2.91	1.42	1.35
36	CE	511	CLA	C3B-C2B	-2.91	1.36	1.40
33	ZK	201	CYC	C1D-CHD	2.91	1.52	1.41
33	j2	201	CYC	C3D-C2D	2.91	1.46	1.37
36	c1	514	CLA	CHC-C1C	2.91	1.42	1.35
36	CE	504	CLA	C3B-C2B	-2.91	1.36	1.40
33	fC	201	CYC	C3D-C2D	2.91	1.46	1.37
33	fI	201	CYC	C3D-C2D	2.91	1.46	1.37
45	D1	402	PHO	OBD-CAD	2.91	1.26	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	bI	201	CYC	C3D-C2D	2.91	1.46	1.37
33	f8	201	CYC	C2C-C1C	-2.91	1.49	1.52
40	d1	412	LMT	O3'-C3'	-2.91	1.36	1.43
36	CD	504	CLA	C3B-C2B	-2.91	1.36	1.40
36	cE	514	CLA	CHC-C1C	2.91	1.42	1.35
33	i2	202	CYC	OB-C4B	2.91	1.29	1.23
36	b1	609	CLA	CHC-C1C	2.91	1.42	1.35
33	h6	201	CYC	C3D-C2D	2.91	1.46	1.37
36	CE	514	CLA	CHC-C1C	2.90	1.42	1.35
36	C1	514	CLA	CHC-C1C	2.90	1.42	1.35
33	f7	201	CYC	C3D-C2D	2.90	1.46	1.37
36	bE	613	CLA	CMB-C2B	-2.90	1.45	1.51
36	BE	613	CLA	CHC-C1C	2.90	1.42	1.35
33	f2	201	CYC	C3D-C2D	2.90	1.46	1.37
36	CD	514	CLA	CHC-C1C	2.90	1.42	1.35
33	CB	1001	CYC	CMD-C2D	2.90	1.57	1.51
36	cD	513	CLA	CHC-C1C	2.90	1.42	1.35
33	f9	201	CYC	C3D-C2D	2.90	1.46	1.37
36	X1	101	CLA	CHC-C1C	2.90	1.42	1.35
36	BD	612	CLA	CMB-C2B	-2.90	1.45	1.51
36	bE	611	CLA	C1D-ND	2.90	1.41	1.37
36	c1	506	CLA	CMB-C2B	-2.90	1.45	1.51
33	fA	201	CYC	C3D-C2D	2.90	1.46	1.37
33	fH	201	CYC	C3D-C2D	2.90	1.46	1.37
33	hI	201	CYC	C3D-C2D	2.90	1.46	1.37
33	f5	201	CYC	C2C-C1C	-2.90	1.49	1.52
33	jA	201	CYC	C2C-C1C	-2.90	1.49	1.52
36	bE	609	CLA	CHC-C1C	2.90	1.42	1.35
33	f3	201	CYC	C3D-C2D	2.90	1.46	1.37
33	CB	1003	CYC	C3D-C2D	2.90	1.46	1.37
36	B1	613	CLA	CHC-C1C	2.90	1.42	1.35
33	hA	201	CYC	C3D-C2D	2.90	1.46	1.37
33	i6	202	CYC	OB-C4B	2.90	1.29	1.23
33	C4	1003	CYC	C3D-C2D	2.90	1.46	1.37
33	h7	201	CYC	C3D-C2D	2.90	1.46	1.37
33	h9	201	CYC	C3D-C2D	2.90	1.46	1.37
33	rB	201	CYC	C3D-C2D	2.90	1.46	1.37
36	AD	405	CLA	CMB-C2B	-2.90	1.45	1.51
36	BD	613	CLA	CHC-C1C	2.89	1.42	1.35
36	iD	101	CLA	CMB-C2B	-2.89	1.45	1.51
36	BE	612	CLA	CMB-C2B	-2.89	1.45	1.51
33	hC	201	CYC	C3D-C2D	2.89	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	f5	201	CYC	C3D-C2D	2.89	1.46	1.37
33	h5	201	CYC	C3D-C2D	2.89	1.46	1.37
36	B1	612	CLA	CMB-C2B	-2.89	1.45	1.51
33	KK	201	CYC	C3D-C2D	2.89	1.46	1.37
36	AE	405	CLA	CMB-C2B	-2.89	1.45	1.51
33	b4	101	CYC	C1B-NB	-2.89	1.33	1.37
36	cE	508	CLA	C1D-ND	2.89	1.41	1.37
36	c1	513	CLA	CHC-C1C	2.89	1.42	1.35
36	bD	614	CLA	CHC-C1C	2.89	1.42	1.35
33	r4	201	CYC	C3D-C2D	2.89	1.46	1.37
36	bE	608	CLA	CHC-C1C	2.89	1.42	1.35
36	A1	405	CLA	CMB-C2B	-2.89	1.45	1.51
36	cD	514	CLA	CHC-C1C	2.89	1.42	1.35
33	h3	201	CYC	C3D-C2D	2.89	1.46	1.37
33	jF	201	CYC	C4C-NC	-2.88	1.31	1.37
33	f8	201	CYC	C3D-C2D	2.88	1.46	1.37
36	bD	609	CLA	CHC-C1C	2.88	1.42	1.35
36	iE	101	CLA	CMB-C2B	-2.88	1.45	1.51
33	hH	201	CYC	C3D-C2D	2.88	1.46	1.37
33	jH	201	CYC	C2C-C1C	-2.88	1.49	1.52
36	bE	614	CLA	CHC-C1C	2.88	1.42	1.35
36	CD	511	CLA	C3B-C2B	-2.88	1.36	1.40
33	jK	201	CYC	C4C-NC	-2.88	1.31	1.37
36	c1	505	CLA	CMB-C2B	-2.88	1.45	1.51
33	h8	201	CYC	C3D-C2D	2.88	1.46	1.37
36	CE	505	CLA	CHC-C1C	2.88	1.42	1.35
33	BB	1002	CYC	C3D-C2D	2.88	1.46	1.37
33	hJ	201	CYC	C3D-C2D	2.87	1.46	1.37
33	h2	201	CYC	C3D-C2D	2.87	1.46	1.37
45	DE	403	PHO	OBD-CAD	2.87	1.26	1.22
33	j5	201	CYC	C2C-C1C	-2.87	1.49	1.52
33	iC	202	CYC	OB-C4B	2.87	1.29	1.23
33	iI	202	CYC	OB-C4B	2.87	1.29	1.23
36	b1	614	CLA	CHC-C1C	2.87	1.42	1.35
33	KF	201	CYC	C3D-C2D	2.87	1.46	1.37
36	iE	101	CLA	CMD-C2D	-2.87	1.44	1.50
33	2G	101	CYC	C1B-NB	-2.87	1.33	1.37
33	B4	1002	CYC	C3D-C2D	2.87	1.46	1.37
33	l2	201	CYC	C2C-C1C	-2.87	1.49	1.52
36	bD	608	CLA	CHC-C1C	2.87	1.42	1.35
36	cD	506	CLA	CMB-C2B	-2.86	1.45	1.51
36	cE	506	CLA	CMB-C2B	-2.86	1.45	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BE	608	CLA	CHC-C1C	2.86	1.42	1.35
36	BD	606	CLA	CHC-C1C	2.86	1.42	1.35
33	jI	201	CYC	C2C-C1C	-2.86	1.49	1.52
36	CE	512	CLA	CHC-C1C	2.86	1.42	1.35
33	i7	202	CYC	OB-C4B	2.86	1.29	1.23
45	DD	403	PHO	OBD-CAD	2.86	1.26	1.22
33	iH	202	CYC	OB-C4B	2.86	1.29	1.23
36	cE	512	CLA	CHC-C1C	2.86	1.42	1.35
33	i9	202	CYC	OB-C4B	2.86	1.29	1.23
36	C1	504	CLA	C3B-C2B	-2.86	1.36	1.40
36	BD	608	CLA	CHC-C1C	2.86	1.42	1.35
33	f2	201	CYC	C2C-C1C	-2.86	1.49	1.52
33	bB	101	CYC	C1B-NB	-2.86	1.33	1.37
36	aD	405	CLA	CMB-C2B	-2.86	1.45	1.51
33	iA	202	CYC	OB-C4B	2.86	1.29	1.23
36	C1	505	CLA	CHC-C1C	2.86	1.42	1.35
33	i5	202	CYC	OB-C4B	2.85	1.29	1.23
40	DE	412	LMT	O3'-C3'	-2.85	1.36	1.43
33	i3	202	CYC	OB-C4B	2.85	1.29	1.23
36	B1	608	CLA	CHC-C1C	2.85	1.42	1.35
36	cD	512	CLA	CHC-C1C	2.85	1.42	1.35
33	jK	201	CYC	C2C-C1C	-2.85	1.49	1.52
36	b1	608	CLA	CHC-C1C	2.85	1.42	1.35
40	DD	412	LMT	O3'-C3'	-2.85	1.36	1.43
36	B1	606	CLA	CHC-C1C	2.85	1.42	1.35
36	CD	505	CLA	CHC-C1C	2.85	1.42	1.35
33	iJ	202	CYC	OB-C4B	2.85	1.29	1.23
36	iD	101	CLA	CMD-C2D	-2.85	1.44	1.50
33	B4	1003	CYC	C4C-NC	-2.85	1.31	1.37
33	JL	201	CYC	C1B-NB	-2.85	1.33	1.37
36	c1	506	CLA	CMD-C2D	-2.85	1.44	1.50
36	C1	511	CLA	C3B-C2B	-2.85	1.36	1.40
45	DD	403	PHO	C7-C8	-2.85	1.37	1.52
33	yB	201	CYC	C1B-NB	-2.85	1.33	1.37
36	c1	507	CLA	C1D-ND	2.85	1.41	1.37
36	cD	507	CLA	C1D-ND	2.85	1.41	1.37
33	aF	201	CYC	C4C-NC	-2.84	1.31	1.37
36	a1	406	CLA	CMB-C2B	-2.84	1.45	1.51
33	dA	201	CYC	C2C-C1C	-2.84	1.49	1.52
45	aD	412	PHO	CAA-C2A	-2.84	1.47	1.54
45	DE	403	PHO	C3A-C2A	-2.84	1.52	1.54
33	jJ	201	CYC	C2C-C1C	-2.84	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	C1	512	CLA	CHC-C1C	2.84	1.42	1.35
36	cE	507	CLA	C1D-ND	2.84	1.41	1.37
33	BB	1003	CYC	C4C-NC	-2.84	1.31	1.37
36	hE	102	CLA	CHC-C1C	2.84	1.42	1.35
33	AL	201	CYC	C4C-NC	-2.84	1.31	1.37
36	c1	512	CLA	CHC-C1C	2.84	1.42	1.35
33	j8	201	CYC	C2C-C1C	-2.84	1.49	1.52
36	h1	102	CLA	CHC-C1C	2.84	1.42	1.35
36	cE	503	CLA	CHC-C1C	2.84	1.42	1.35
36	BD	607	CLA	C1D-ND	2.84	1.41	1.37
33	C4	1001	CYC	C2C-C1C	-2.84	1.49	1.52
33	1L	201	CYC	C4B-NB	-2.83	1.32	1.38
36	hD	102	CLA	CHC-C1C	2.83	1.42	1.35
33	2L	101	CYC	C1B-NB	-2.83	1.33	1.37
33	1G	201	CYC	C4B-NB	-2.83	1.32	1.38
33	1L	201	CYC	C1B-NB	-2.83	1.33	1.37
43	X1	102	BCR	C39-C30	2.83	1.59	1.53
36	CD	503	CLA	CHC-C1C	2.83	1.42	1.35
36	c1	502	CLA	CHC-C1C	2.83	1.42	1.35
33	aB	201	CYC	C2C-C1C	-2.83	1.49	1.52
36	BD	607	CLA	CHC-C1C	2.83	1.42	1.35
36	BE	606	CLA	CHC-C1C	2.83	1.42	1.35
36	CD	512	CLA	CHC-C1C	2.83	1.42	1.35
33	j2	201	CYC	C2C-C1C	-2.83	1.49	1.52
33	JG	201	CYC	C1B-NB	-2.83	1.33	1.37
36	aE	405	CLA	CMB-C2B	-2.83	1.45	1.51
36	BE	603	CLA	CMB-C2B	-2.83	1.45	1.51
33	aK	201	CYC	C4C-NC	-2.83	1.31	1.37
33	NG	201	CYC	C1B-NB	-2.83	1.33	1.37
36	CE	503	CLA	CHC-C1C	2.83	1.42	1.35
33	CB	1002	CYC	C4C-NC	-2.83	1.31	1.37
33	cK	201	CYC	C3D-C2D	2.83	1.46	1.37
36	B1	603	CLA	CMB-C2B	-2.83	1.45	1.51
36	C1	503	CLA	CHC-C1C	2.83	1.42	1.35
36	cD	503	CLA	CHC-C1C	2.83	1.42	1.35
36	bE	605	CLA	CMB-C2B	-2.82	1.45	1.51
33	C4	1002	CYC	C4C-NC	-2.82	1.31	1.37
33	3K	101	CYC	C1C-NC	-2.82	1.33	1.37
36	b1	604	CLA	CHC-C1C	2.82	1.42	1.35
36	BD	603	CLA	CMB-C2B	-2.82	1.45	1.51
38	BE	621	SQD	C6-S	-2.82	1.67	1.77
33	jC	201	CYC	C2C-C1C	-2.82	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	jF	201	CYC	C2C-C1C	-2.82	1.49	1.52
36	HE	102	CLA	CHC-C1C	2.82	1.42	1.35
33	ML	201	CYC	C4C-NC	-2.82	1.31	1.37
33	f7	201	CYC	C2C-C1C	-2.82	1.49	1.52
33	TL	201	CYC	C4C-NC	-2.82	1.31	1.37
33	k5	201	CYC	OB-C4B	2.82	1.28	1.23
33	CB	1001	CYC	C2C-C1C	-2.82	1.49	1.52
33	a4	201	CYC	C2C-C1C	-2.82	1.49	1.52
33	3F	101	CYC	C1C-NC	-2.82	1.34	1.37
36	cE	510	CLA	C4B-CHC	-2.82	1.33	1.41
33	l5	201	CYC	C2C-C1C	-2.82	1.49	1.52
36	bE	610	CLA	CHC-C1C	2.82	1.42	1.35
33	NL	201	CYC	C1B-NB	-2.81	1.33	1.37
33	kA	201	CYC	OB-C4B	2.81	1.28	1.23
38	BD	621	SQD	C6-S	-2.81	1.67	1.77
40	D1	411	LMT	O3'-C3'	-2.81	1.36	1.43
36	bD	605	CLA	CMB-C2B	-2.81	1.45	1.51
36	BE	607	CLA	CHC-C1C	2.81	1.42	1.35
36	bE	604	CLA	CHC-C1C	2.81	1.42	1.35
33	5L	201	CYC	C4C-NC	-2.81	1.31	1.37
36	b1	609	CLA	C1D-ND	2.81	1.41	1.37
33	AG	201	CYC	C4C-NC	-2.81	1.31	1.37
36	HD	102	CLA	CHC-C1C	2.81	1.42	1.35
36	b1	603	CLA	CHC-C1C	2.81	1.42	1.35
38	B1	622	SQD	C6-S	-2.81	1.67	1.77
36	B1	609	CLA	C3B-C2B	-2.81	1.36	1.40
33	5G	201	CYC	C4C-NC	-2.81	1.31	1.37
33	MG	201	CYC	C4C-NC	-2.81	1.31	1.37
36	bE	603	CLA	CHC-C1C	2.81	1.42	1.35
36	BD	609	CLA	C3B-C2B	-2.81	1.36	1.40
36	cD	510	CLA	C4B-CHC	-2.81	1.33	1.41
40	dE	404	LMT	O3'-C3'	-2.81	1.36	1.43
33	HL	201	CYC	CHB-C4A	2.81	1.47	1.40
33	5L	201	CYC	C4B-NB	-2.81	1.32	1.38
33	1G	201	CYC	C1B-NB	-2.80	1.33	1.37
36	bD	603	CLA	CHC-C1C	2.80	1.42	1.35
33	yB	201	CYC	C4C-NC	-2.80	1.31	1.37
36	cE	506	CLA	C1D-ND	2.80	1.41	1.37
43	XD	102	BCR	C39-C30	2.80	1.59	1.53
36	cD	511	CLA	CMB-C2B	-2.80	1.45	1.51
36	cD	508	CLA	CHC-C1C	2.80	1.42	1.35
33	y4	201	CYC	C1B-NB	-2.80	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	bD	604	CLA	CHC-C1C	2.80	1.42	1.35
33	4G	201	CYC	C1C-NC	-2.80	1.34	1.37
33	cF	201	CYC	C3D-C2D	2.80	1.46	1.37
36	BE	602	CLA	CHC-C1C	2.80	1.42	1.35
40	DE	404	LMT	O3'-C3'	-2.80	1.36	1.43
36	b1	605	CLA	CMB-C2B	-2.80	1.45	1.51
36	cE	511	CLA	CMB-C2B	-2.80	1.45	1.51
36	b1	610	CLA	CHC-C1C	2.80	1.42	1.35
36	c1	511	CLA	CMB-C2B	-2.80	1.45	1.51
36	H1	102	CLA	CHC-C1C	2.80	1.42	1.35
36	c1	502	CLA	CMB-C2B	-2.80	1.45	1.51
40	d1	404	LMT	O3'-C3'	-2.79	1.36	1.43
36	BE	601	CLA	CHC-C1C	2.79	1.42	1.35
36	B1	607	CLA	CHC-C1C	2.79	1.42	1.35
33	k2	201	CYC	OB-C4B	2.79	1.28	1.23
36	BE	603	CLA	CMD-C2D	-2.79	1.44	1.50
33	y4	201	CYC	C4C-NC	-2.79	1.31	1.37
33	cI	201	CYC	C3D-C2D	2.79	1.45	1.37
36	BD	601	CLA	CHC-C1C	2.79	1.42	1.35
43	XE	102	BCR	C39-C30	2.79	1.59	1.53
33	kI	201	CYC	OB-C4B	2.79	1.28	1.23
36	C1	511	CLA	CHC-C1C	2.79	1.42	1.35
33	4L	201	CYC	C1C-NC	-2.79	1.34	1.37
33	e3	201	CYC	C3D-C2D	2.79	1.45	1.37
33	eI	201	CYC	C3D-C2D	2.79	1.45	1.37
36	B1	601	CLA	CHC-C1C	2.79	1.42	1.35
36	c1	508	CLA	CHC-C1C	2.79	1.42	1.35
43	h1	105	BCR	C39-C30	2.79	1.59	1.53
36	c1	510	CLA	C4B-CHC	-2.79	1.33	1.41
33	kA	201	CYC	C3D-C2D	2.79	1.45	1.37
33	KK	201	CYC	C1D-CHD	2.79	1.51	1.41
36	BE	607	CLA	C1D-ND	2.79	1.41	1.37
33	lC	201	CYC	C2C-C1C	-2.79	1.49	1.52
36	BE	609	CLA	C3B-C2B	-2.79	1.36	1.40
40	dD	404	LMT	O3'-C3'	-2.79	1.36	1.43
33	HG	201	CYC	CHB-C4A	2.78	1.46	1.40
36	bE	609	CLA	C1D-ND	2.78	1.41	1.37
36	BE	614	CLA	CMB-C2B	-2.78	1.45	1.51
36	cE	508	CLA	CHC-C1C	2.78	1.42	1.35
33	l9	201	CYC	C2C-C1C	-2.78	1.49	1.52
33	k9	201	CYC	OB-C4B	2.78	1.28	1.23
33	cA	201	CYC	C3D-C2D	2.78	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	hD	105	BCR	C39-C30	2.78	1.59	1.53
40	D1	403	LMT	O3'-C3'	-2.78	1.36	1.43
36	bD	610	CLA	CHC-C1C	2.78	1.42	1.35
36	d1	405	CLA	CHC-C1C	2.78	1.42	1.35
33	fF	201	CYC	C1B-NB	-2.78	1.33	1.37
33	e9	201	CYC	C3D-C2D	2.78	1.45	1.37
33	IK	201	CYC	C4C-NC	-2.78	1.31	1.37
33	IG	201	CYC	C1B-C2B	2.78	1.50	1.45
33	e5	201	CYC	C3D-C2D	2.78	1.45	1.37
36	BD	602	CLA	CHC-C1C	2.78	1.42	1.35
33	B7	301	CYC	OB-C4B	2.78	1.28	1.23
43	hE	105	BCR	C39-C30	2.78	1.59	1.53
33	e7	201	CYC	C3D-C2D	2.78	1.45	1.37
33	BI	301	CYC	OB-C4B	2.78	1.28	1.23
33	IL	201	CYC	C1B-C2B	2.78	1.50	1.45
36	BE	607	CLA	CMB-C2B	-2.78	1.45	1.51
33	KF	201	CYC	C1D-CHD	2.78	1.51	1.41
33	k5	201	CYC	C3D-C2D	2.78	1.45	1.37
36	BE	609	CLA	CHC-C1C	2.78	1.42	1.35
36	CE	511	CLA	CHC-C1C	2.78	1.42	1.35
36	B1	602	CLA	CHC-C1C	2.78	1.42	1.35
33	cH	201	CYC	C3D-C2D	2.78	1.45	1.37
36	b1	609	CLA	CMB-C2B	-2.78	1.45	1.51
40	DD	404	LMT	O3'-C3'	-2.78	1.36	1.43
36	b1	606	CLA	C3B-C2B	-2.78	1.36	1.40
33	eA	201	CYC	C3D-C2D	2.78	1.45	1.37
33	c3	201	CYC	C3D-C2D	2.77	1.45	1.37
33	TG	201	CYC	C4C-NC	-2.77	1.31	1.37
36	B1	607	CLA	C1D-ND	2.77	1.41	1.37
36	b1	605	CLA	CMD-C2D	-2.77	1.44	1.50
36	BD	603	CLA	CMD-C2D	-2.77	1.44	1.50
33	c5	201	CYC	C3D-C2D	2.77	1.45	1.37
33	g8	202	CYC	OB-C4B	2.77	1.28	1.23
36	D1	404	CLA	CMB-C2B	-2.77	1.45	1.51
33	W4	201	CYC	C1C-NC	-2.77	1.34	1.37
33	lA	201	CYC	C2C-C1C	-2.77	1.49	1.52
33	3K	101	CYC	C4A-C3A	2.77	1.51	1.45
33	IL	201	CYC	C4C-NC	-2.77	1.31	1.37
33	l7	201	CYC	C2C-C1C	-2.77	1.49	1.52
36	B1	603	CLA	CMD-C2D	-2.77	1.44	1.50
33	IF	201	CYC	C4C-NC	-2.77	1.31	1.37
33	IG	201	CYC	C4C-NC	-2.77	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	lH	201	CYC	C2C-C1C	-2.77	1.49	1.52
36	CD	511	CLA	CHC-C1C	2.77	1.42	1.35
33	k6	201	CYC	OB-C4B	2.77	1.28	1.23
36	dE	406	CLA	C1D-ND	2.77	1.41	1.37
33	k8	201	CYC	C3D-C2D	2.77	1.45	1.37
36	aD	406	CLA	CHC-C1C	2.77	1.42	1.35
36	dE	406	CLA	CMD-C2D	-2.77	1.44	1.50
33	c8	201	CYC	C3D-C2D	2.77	1.45	1.37
33	e2	201	CYC	C3D-C2D	2.77	1.45	1.37
45	DD	403	PHO	C1A-C2A	2.77	1.55	1.51
36	cE	503	CLA	CMB-C2B	-2.77	1.45	1.51
33	k3	201	CYC	C3D-C2D	2.77	1.45	1.37
33	k7	201	CYC	C3D-C2D	2.77	1.45	1.37
33	k7	201	CYC	OB-C4B	2.77	1.28	1.23
33	kI	201	CYC	C3D-C2D	2.77	1.45	1.37
33	eC	201	CYC	OB-C4B	2.77	1.28	1.23
36	BD	614	CLA	CMB-C2B	-2.77	1.45	1.51
33	kJ	201	CYC	C3D-C2D	2.77	1.45	1.37
36	aE	406	CLA	CHC-C1C	2.76	1.42	1.35
33	o4	201	CYC	C1B-C2B	2.76	1.50	1.45
33	e8	201	CYC	C3D-C2D	2.76	1.45	1.37
33	eC	201	CYC	C3D-C2D	2.76	1.45	1.37
33	eH	201	CYC	C3D-C2D	2.76	1.45	1.37
33	cC	201	CYC	C3D-C2D	2.76	1.45	1.37
33	B2	301	CYC	OB-C4B	2.76	1.28	1.23
33	k6	201	CYC	C3D-C2D	2.76	1.45	1.37
33	kH	201	CYC	C3D-C2D	2.76	1.45	1.37
33	kH	201	CYC	OB-C4B	2.76	1.28	1.23
36	c1	508	CLA	CMB-C2B	-2.76	1.45	1.51
33	e5	201	CYC	OB-C4B	2.76	1.28	1.23
36	BD	609	CLA	CHC-C1C	2.76	1.42	1.35
36	BD	607	CLA	CMB-C2B	-2.76	1.45	1.51
40	b1	602	LMT	O2'-C2'	-2.76	1.36	1.43
36	B1	614	CLA	CMB-C2B	-2.76	1.45	1.51
33	c9	201	CYC	C3D-C2D	2.76	1.45	1.37
40	D1	403	LMT	O2'-C2'	-2.76	1.36	1.43
36	bD	609	CLA	CMB-C2B	-2.76	1.45	1.51
33	c2	201	CYC	C3D-C2D	2.76	1.45	1.37
36	CE	510	CLA	CMB-C2B	-2.76	1.45	1.51
33	kC	201	CYC	OB-C4B	2.76	1.28	1.23
40	bE	602	LMT	O2'-C2'	-2.76	1.36	1.43
40	dE	413	LMT	O3'-C3'	-2.76	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	a1	407	CLA	CHC-C1C	2.76	1.42	1.35
33	c6	201	CYC	C3D-C2D	2.76	1.45	1.37
36	C1	508	CLA	CHC-C1C	2.76	1.42	1.35
36	cD	506	CLA	C1D-ND	2.76	1.41	1.37
33	k2	201	CYC	C3D-C2D	2.76	1.45	1.37
33	eK	201	CYC	C3D-C2D	2.76	1.45	1.37
36	dD	405	CLA	CHC-C1C	2.76	1.42	1.35
36	BE	604	CLA	C3B-C2B	-2.76	1.36	1.40
33	eA	201	CYC	OB-C4B	2.76	1.28	1.23
33	eJ	201	CYC	C3D-C2D	2.76	1.45	1.37
36	bD	609	CLA	C1D-ND	2.75	1.41	1.37
36	AD	404	CLA	CHC-C1C	2.75	1.42	1.35
33	5G	201	CYC	C4B-NB	-2.75	1.32	1.38
33	B9	301	CYC	OB-C4B	2.75	1.28	1.23
33	c7	201	CYC	C3D-C2D	2.75	1.45	1.37
33	gH	202	CYC	OB-C4B	2.75	1.28	1.23
36	bD	606	CLA	C3B-C2B	-2.75	1.36	1.40
36	dE	406	CLA	CHC-C1C	2.75	1.42	1.35
33	3F	101	CYC	C4A-C3A	2.75	1.51	1.45
33	RG	201	CYC	C3D-C2D	2.75	1.45	1.37
33	CB	1001	CYC	C1D-CHD	2.75	1.51	1.41
33	gJ	202	CYC	OB-C4B	2.75	1.28	1.23
33	WB	201	CYC	C1C-NC	-2.75	1.34	1.37
47	fE	101	HEM	C4B-NB	-2.75	1.33	1.38
33	sB	201	CYC	C3D-C2D	2.75	1.45	1.37
36	DE	406	CLA	C1D-ND	2.75	1.41	1.37
33	BC	301	CYC	OB-C4B	2.75	1.28	1.23
36	CE	513	CLA	CHC-C1C	2.75	1.42	1.35
40	dD	413	LMT	O3'-C3'	-2.75	1.36	1.43
33	kC	201	CYC	C3D-C2D	2.75	1.45	1.37
36	CE	508	CLA	CHC-C1C	2.75	1.42	1.35
33	eI	201	CYC	OB-C4B	2.75	1.28	1.23
36	c1	510	CLA	C1D-ND	2.75	1.41	1.37
33	eH	201	CYC	OB-C4B	2.75	1.28	1.23
36	bE	608	CLA	CMB-C2B	-2.75	1.45	1.51
36	cE	508	CLA	CMB-C2B	-2.75	1.45	1.51
36	DE	406	CLA	CMD-C2D	-2.75	1.45	1.50
33	e8	201	CYC	OB-C4B	2.75	1.28	1.23
36	cD	508	CLA	CMB-C2B	-2.75	1.45	1.51
40	j1	101	LMT	O3'-C3'	-2.74	1.36	1.43
36	A1	404	CLA	CHC-C1C	2.74	1.42	1.35
36	cD	503	CLA	CMB-C2B	-2.74	1.45	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	C4	1001	CYC	C1D-CHD	2.74	1.51	1.41
36	cD	503	CLA	C3B-C2B	-2.74	1.36	1.40
33	C4	1002	CYC	OB-C4B	2.74	1.28	1.23
33	g5	202	CYC	OB-C4B	2.74	1.28	1.23
33	e6	201	CYC	OB-C4B	2.74	1.28	1.23
36	D1	405	CLA	CMD-C2D	-2.74	1.45	1.50
36	CD	513	CLA	CHC-C1C	2.74	1.42	1.35
33	s4	201	CYC	C3D-C2D	2.74	1.45	1.37
33	fK	201	CYC	C1B-NB	-2.74	1.33	1.37
47	fI	101	HEM	C4B-NB	-2.74	1.33	1.38
47	fD	101	HEM	C4B-NB	-2.74	1.33	1.38
36	DD	405	CLA	CMB-C2B	-2.74	1.45	1.51
36	B1	609	CLA	CHC-C1C	2.74	1.42	1.35
33	e6	201	CYC	C3D-C2D	2.74	1.45	1.37
33	k8	201	CYC	OB-C4B	2.74	1.28	1.23
36	AE	404	CLA	CHC-C1C	2.74	1.42	1.35
33	k9	201	CYC	C3D-C2D	2.74	1.45	1.37
33	eF	201	CYC	C3D-C2D	2.74	1.45	1.37
36	BD	604	CLA	C3B-C2B	-2.74	1.36	1.40
36	bD	608	CLA	CMB-C2B	-2.74	1.45	1.51
36	C1	510	CLA	CMB-C2B	-2.74	1.45	1.51
40	DD	404	LMT	O2'-C2'	-2.74	1.36	1.43
33	l3	201	CYC	C2C-C1C	-2.74	1.49	1.52
36	D1	405	CLA	CMB-C2B	-2.74	1.45	1.51
36	bE	609	CLA	CMB-C2B	-2.74	1.45	1.51
40	d1	413	LMT	O3'-C3'	-2.74	1.36	1.43
36	dD	406	CLA	CMD-C2D	-2.74	1.45	1.50
36	C1	507	CLA	CMD-C2D	-2.74	1.45	1.50
33	cJ	201	CYC	C3D-C2D	2.74	1.45	1.37
36	BE	610	CLA	CMC-C2C	-2.74	1.45	1.50
36	CD	510	CLA	CMB-C2B	-2.74	1.46	1.51
36	eE	508	CLA	CMD-C2D	-2.73	1.45	1.50
33	RL	201	CYC	C3D-C2D	2.73	1.45	1.37
36	bD	605	CLA	CMD-C2D	-2.73	1.45	1.50
40	bD	602	LMT	O2'-C2'	-2.73	1.36	1.43
33	LF	201	CYC	C4C-NC	-2.73	1.31	1.37
33	oB	201	CYC	C1B-C2B	2.73	1.50	1.45
47	fI	101	HEM	C1D-ND	-2.73	1.33	1.38
36	c1	508	CLA	CMD-C2D	-2.73	1.45	1.50
36	dD	406	CLA	CHC-C1C	2.73	1.42	1.35
36	DD	406	CLA	CMD-C2D	-2.73	1.45	1.50
33	e3	201	CYC	OB-C4B	2.73	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	bE	605	CLA	CMD-C2D	-2.73	1.45	1.50
33	i7	202	CYC	C3D-C2D	2.73	1.45	1.37
36	b1	608	CLA	CMB-C2B	-2.73	1.46	1.51
33	B3	301	CYC	OB-C4B	2.73	1.28	1.23
33	l8	201	CYC	C2C-C1C	-2.73	1.49	1.52
40	jD	101	LMT	O3'-C3'	-2.73	1.36	1.43
33	e2	201	CYC	OB-C4B	2.73	1.28	1.23
33	B6	301	CYC	OB-C4B	2.73	1.28	1.23
36	cD	508	CLA	CMD-C2D	-2.73	1.45	1.50
40	dE	404	LMT	O2'-C2'	-2.73	1.36	1.43
33	k3	201	CYC	OB-C4B	2.73	1.28	1.23
36	DD	406	CLA	CMB-C2B	-2.73	1.46	1.51
40	DE	404	LMT	O2'-C2'	-2.73	1.36	1.43
33	eJ	201	CYC	OB-C4B	2.73	1.28	1.23
36	c1	505	CLA	C1D-ND	2.73	1.41	1.37
33	cK	201	CYC	C4C-NC	-2.73	1.31	1.37
47	ED	101	HEM	C4B-NB	-2.73	1.33	1.38
36	c1	509	CLA	CMB-C2B	-2.73	1.46	1.51
36	xE	101	CLA	CMB-C2B	-2.73	1.46	1.51
33	BA	301	CYC	OB-C4B	2.73	1.28	1.23
36	CD	506	CLA	CHC-C1C	2.73	1.42	1.35
36	B1	612	CLA	CHC-C1C	2.73	1.42	1.35
36	B1	607	CLA	CMB-C2B	-2.73	1.46	1.51
36	CD	508	CLA	CHC-C1C	2.73	1.42	1.35
36	dE	405	CLA	CHC-C1C	2.72	1.42	1.35
36	d1	405	CLA	CMB-C2B	-2.72	1.46	1.51
36	A1	405	CLA	C3B-C2B	-2.72	1.36	1.40
36	DE	406	CLA	CMB-C2B	-2.72	1.46	1.51
33	LK	201	CYC	C4C-NC	-2.72	1.31	1.37
47	E1	101	HEM	C4B-NB	-2.72	1.33	1.38
36	DE	405	CLA	CMB-C2B	-2.72	1.46	1.51
36	x1	101	CLA	CMB-C2B	-2.72	1.46	1.51
36	d1	406	CLA	CMD-C2D	-2.72	1.45	1.50
33	lI	201	CYC	C2C-C1C	-2.72	1.49	1.52
36	BD	606	CLA	CMB-C2B	-2.72	1.46	1.51
40	dD	404	LMT	O2'-C2'	-2.72	1.36	1.43
33	iC	202	CYC	C3D-C2D	2.72	1.45	1.37
36	bE	606	CLA	C3B-C2B	-2.72	1.36	1.40
36	C1	513	CLA	CHC-C1C	2.72	1.41	1.35
36	cE	509	CLA	CMB-C2B	-2.72	1.46	1.51
36	BE	603	CLA	CHC-C1C	2.72	1.41	1.35
36	CE	507	CLA	CMD-C2D	-2.72	1.45	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BE	612	CLA	CHC-C1C	2.72	1.41	1.35
36	B1	603	CLA	CHC-C1C	2.72	1.41	1.35
40	jE	101	LMT	O3'-C3'	-2.72	1.36	1.43
33	kJ	201	CYC	OB-C4B	2.72	1.28	1.23
36	CD	506	CLA	CMB-C2B	-2.72	1.46	1.51
36	dD	406	CLA	C1D-ND	2.72	1.41	1.37
33	l6	201	CYC	C2C-C1C	-2.72	1.49	1.52
36	X1	101	CLA	CMB-C2B	-2.72	1.46	1.51
36	cD	509	CLA	CMB-C2B	-2.72	1.46	1.51
33	k3	201	CYC	C4C-NC	-2.72	1.31	1.37
36	DD	406	CLA	C1D-ND	2.72	1.41	1.37
33	kA	201	CYC	C4C-NC	-2.72	1.31	1.37
36	DE	406	CLA	CHC-C1C	2.72	1.41	1.35
36	b1	613	CLA	CHC-C1C	2.72	1.41	1.35
33	eK	201	CYC	C4A-C3A	2.72	1.51	1.45
36	d1	406	CLA	C1D-ND	2.72	1.41	1.37
33	jK	201	CYC	OB-C4B	2.71	1.28	1.23
36	C1	503	CLA	CMB-C2B	-2.71	1.46	1.51
33	i9	202	CYC	C3D-C2D	2.71	1.45	1.37
36	CD	503	CLA	CMB-C2B	-2.71	1.46	1.51
33	B2	301	CYC	C3D-C2D	2.71	1.45	1.37
36	bE	615	CLA	CMB-C2B	-2.71	1.46	1.51
36	CD	507	CLA	CMD-C2D	-2.71	1.45	1.50
33	JK	201	CYC	C1C-NC	-2.71	1.34	1.37
33	eF	201	CYC	C4A-C3A	2.71	1.51	1.45
36	d1	406	CLA	CHC-C1C	2.71	1.41	1.35
33	cI	201	CYC	OB-C4B	2.71	1.28	1.23
33	i8	202	CYC	C3D-C2D	2.71	1.45	1.37
36	DD	406	CLA	CHC-C1C	2.71	1.41	1.35
33	u4	201	CYC	C1C-NC	-2.71	1.34	1.37
36	AE	405	CLA	C3B-C2B	-2.71	1.36	1.40
33	V4	201	CYC	C1D-CHD	2.71	1.51	1.41
36	bD	615	CLA	CMB-C2B	-2.71	1.46	1.51
33	BA	301	CYC	C3D-C2D	2.71	1.45	1.37
33	i3	202	CYC	C3D-C2D	2.71	1.45	1.37
36	XE	101	CLA	CMB-C2B	-2.71	1.46	1.51
33	iJ	202	CYC	C1B-NB	-2.71	1.33	1.37
36	AD	405	CLA	CHC-C1C	2.71	1.41	1.35
36	bE	613	CLA	CHC-C1C	2.71	1.41	1.35
36	CE	506	CLA	CMB-C2B	-2.71	1.46	1.51
36	CE	506	CLA	CHC-C1C	2.71	1.41	1.35
36	B1	604	CLA	C3B-C2B	-2.71	1.36	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BD	612	CLA	CHC-C1C	2.71	1.41	1.35
33	e7	201	CYC	C4C-NC	-2.71	1.31	1.37
33	cA	201	CYC	OB-C4B	2.71	1.28	1.23
36	bE	605	CLA	CHC-C1C	2.71	1.41	1.35
33	WL	201	CYC	C4C-NC	-2.71	1.31	1.37
36	D1	405	CLA	CHC-C1C	2.71	1.41	1.35
33	k5	201	CYC	C4C-NC	-2.71	1.31	1.37
33	cF	201	CYC	C4C-NC	-2.71	1.31	1.37
33	BC	301	CYC	C3D-C2D	2.71	1.45	1.37
33	i5	202	CYC	C3D-C2D	2.71	1.45	1.37
33	P4	201	CYC	C1D-CHD	2.71	1.51	1.41
33	uB	201	CYC	C1C-NC	-2.71	1.34	1.37
33	e9	201	CYC	C4C-NC	-2.70	1.31	1.37
40	d1	404	LMT	O2'-C2'	-2.70	1.36	1.43
33	CB	1002	CYC	OB-C4B	2.70	1.28	1.23
33	WG	201	CYC	C4C-NC	-2.70	1.31	1.37
36	DD	405	CLA	CHC-C1C	2.70	1.41	1.35
36	BD	605	CLA	CHC-C1C	2.70	1.41	1.35
33	B9	301	CYC	C3D-C2D	2.70	1.45	1.37
33	gJ	202	CYC	C3D-C2D	2.70	1.45	1.37
33	iH	202	CYC	C3D-C2D	2.70	1.45	1.37
33	2G	101	CYC	C4B-NB	-2.70	1.32	1.38
36	b1	615	CLA	CMB-C2B	-2.70	1.46	1.51
36	cE	503	CLA	C3B-C2B	-2.70	1.36	1.40
33	jF	201	CYC	OB-C4B	2.70	1.28	1.23
47	fD	101	HEM	C1D-ND	-2.70	1.33	1.38
36	bD	614	CLA	C3B-C2B	-2.70	1.36	1.40
36	BD	610	CLA	CMC-C2C	-2.70	1.45	1.50
33	VB	201	CYC	C1D-CHD	2.70	1.51	1.41
33	iC	202	CYC	C1B-NB	-2.70	1.33	1.37
36	CD	511	CLA	CMB-C2B	-2.70	1.46	1.51
47	EE	101	HEM	C4B-NB	-2.70	1.33	1.38
36	BE	605	CLA	CHC-C1C	2.70	1.41	1.35
33	k9	201	CYC	C4C-NC	-2.70	1.31	1.37
36	DE	405	CLA	CHC-C1C	2.70	1.41	1.35
33	k6	201	CYC	C4C-NC	-2.70	1.31	1.37
33	kH	201	CYC	C4C-NC	-2.70	1.31	1.37
36	dD	405	CLA	CMB-C2B	-2.70	1.46	1.51
33	c6	201	CYC	C4C-NC	-2.70	1.31	1.37
36	aE	404	CLA	CMD-C2D	-2.70	1.45	1.50
43	XE	102	BCR	C1-C6	-2.70	1.50	1.53
33	QL	201	CYC	C4C-NC	-2.70	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	C1	506	CLA	CHC-C1C	2.70	1.41	1.35
33	BI	301	CYC	C3D-C2D	2.70	1.45	1.37
33	iI	202	CYC	C3D-C2D	2.70	1.45	1.37
33	e7	201	CYC	OB-C4B	2.70	1.28	1.23
33	c3	201	CYC	C4C-NC	-2.70	1.31	1.37
33	B3	301	CYC	C3D-C2D	2.70	1.45	1.37
33	JL	201	CYC	C4C-NC	-2.70	1.31	1.37
33	kC	201	CYC	C4C-NC	-2.70	1.31	1.37
33	kJ	201	CYC	C4C-NC	-2.70	1.31	1.37
33	i8	202	CYC	C1B-NB	-2.70	1.33	1.37
36	cE	506	CLA	CHC-C1C	2.70	1.41	1.35
40	bE	621	LMT	O2'-C2'	-2.70	1.36	1.43
33	eJ	201	CYC	C4C-NC	-2.70	1.31	1.37
33	e3	201	CYC	C4C-NC	-2.70	1.31	1.37
33	iA	202	CYC	C3D-C2D	2.70	1.45	1.37
36	D1	405	CLA	C1D-ND	2.69	1.41	1.37
40	cE	501	LMT	O2'-C2'	-2.69	1.36	1.43
33	PB	201	CYC	C1D-CHD	2.69	1.51	1.41
33	g8	202	CYC	C3D-C2D	2.69	1.45	1.37
36	BD	603	CLA	CHC-C1C	2.69	1.41	1.35
36	cD	510	CLA	C1D-ND	2.69	1.41	1.37
33	cH	201	CYC	OB-C4B	2.69	1.28	1.23
36	A1	405	CLA	CHC-C1C	2.69	1.41	1.35
33	k8	201	CYC	C4C-NC	-2.69	1.31	1.37
33	2L	101	CYC	C4B-NB	-2.69	1.32	1.38
36	bD	613	CLA	CHC-C1C	2.69	1.41	1.35
33	cI	201	CYC	C4C-NC	-2.69	1.31	1.37
36	AD	405	CLA	C3B-C2B	-2.69	1.36	1.40
36	B1	601	CLA	CMB-C2B	-2.69	1.46	1.51
36	a1	405	CLA	CMD-C2D	-2.69	1.45	1.50
36	b1	614	CLA	C3B-C2B	-2.69	1.36	1.40
33	gH	202	CYC	C3D-C2D	2.69	1.45	1.37
36	bD	605	CLA	CHC-C1C	2.69	1.41	1.35
36	b1	610	CLA	C3B-C2B	-2.69	1.36	1.40
36	BD	601	CLA	CMB-C2B	-2.69	1.46	1.51
36	B1	606	CLA	CMB-C2B	-2.69	1.46	1.51
33	iJ	202	CYC	C3D-C2D	2.69	1.45	1.37
36	B1	605	CLA	CHC-C1C	2.69	1.41	1.35
33	cC	201	CYC	OB-C4B	2.69	1.28	1.23
40	cD	501	LMT	O2'-C2'	-2.69	1.36	1.43
36	bE	604	CLA	CMB-C2B	-2.69	1.46	1.51
33	OL	201	CYC	C4B-NB	-2.69	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	cD	506	CLA	CHC-C1C	2.69	1.41	1.35
33	cC	201	CYC	C4C-NC	-2.69	1.31	1.37
47	fE	101	HEM	C1D-ND	-2.69	1.33	1.38
36	xD	101	CLA	CMB-C2B	-2.69	1.46	1.51
36	cD	504	CLA	C1D-ND	2.69	1.41	1.37
33	e9	201	CYC	OB-C4B	2.69	1.28	1.23
33	e2	201	CYC	C4C-NC	-2.69	1.31	1.37
33	e5	201	CYC	C4C-NC	-2.69	1.31	1.37
36	CD	510	CLA	C3D-C2D	2.69	1.46	1.39
36	bE	607	CLA	CHC-C1C	2.69	1.41	1.35
36	cE	511	CLA	CHC-C1C	2.69	1.41	1.35
33	c6	201	CYC	OB-C4B	2.69	1.28	1.23
33	i6	202	CYC	C3D-C2D	2.68	1.45	1.37
33	lJ	201	CYC	C2C-C1C	-2.68	1.49	1.52
36	D1	404	CLA	CHC-C1C	2.68	1.41	1.35
33	MG	201	CYC	C4A-C3A	2.68	1.51	1.45
36	C1	511	CLA	CMB-C2B	-2.68	1.46	1.51
33	wB	201	CYC	C4C-NC	-2.68	1.31	1.37
33	c9	201	CYC	OB-C4B	2.68	1.28	1.23
47	vE	201	HEM	C4B-NB	-2.68	1.33	1.38
36	C1	505	CLA	CMD-C2D	-2.68	1.45	1.50
36	c1	508	CLA	MG-ND	-2.68	2.00	2.05
33	QG	201	CYC	C4C-NC	-2.68	1.31	1.37
36	b1	607	CLA	CHC-C1C	2.68	1.41	1.35
36	AE	405	CLA	CHC-C1C	2.68	1.41	1.35
36	BE	606	CLA	CMB-C2B	-2.68	1.46	1.51
36	CE	503	CLA	CMB-C2B	-2.68	1.46	1.51
33	cJ	201	CYC	C4C-NC	-2.68	1.31	1.37
45	DD	403	PHO	CMA-C3A	-2.68	1.48	1.53
36	I1	101	CLA	CMB-C2B	-2.68	1.46	1.51
36	c1	513	CLA	CMB-C2B	-2.68	1.46	1.51
33	kI	201	CYC	C4C-NC	-2.68	1.31	1.37
33	eK	201	CYC	C4C-NC	-2.68	1.31	1.37
33	c3	201	CYC	OB-C4B	2.68	1.28	1.23
33	gF	201	CYC	C4C-NC	-2.68	1.31	1.37
38	hD	103	SQD	C6-S	-2.68	1.67	1.77
36	B1	610	CLA	CMC-C2C	-2.68	1.45	1.50
33	k7	201	CYC	C4C-NC	-2.68	1.31	1.37
36	BE	613	CLA	CMB-C2B	-2.68	1.46	1.51
36	bD	607	CLA	CHC-C1C	2.68	1.41	1.35
33	i7	202	CYC	C1B-NB	-2.68	1.33	1.37
36	C1	506	CLA	CMB-C2B	-2.68	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	g5	202	CYC	C3D-C2D	2.68	1.45	1.37
36	bE	610	CLA	C3B-C2B	-2.68	1.36	1.40
36	CD	505	CLA	CMD-C2D	-2.68	1.45	1.50
38	h1	103	SQD	C6-S	-2.68	1.67	1.77
36	BD	613	CLA	CMB-C2B	-2.68	1.46	1.51
36	BE	601	CLA	CMB-C2B	-2.68	1.46	1.51
33	cA	201	CYC	C4C-NC	-2.68	1.31	1.37
33	OL	201	CYC	C3D-C2D	2.68	1.45	1.37
33	i2	202	CYC	C3D-C2D	2.68	1.45	1.37
36	B1	602	CLA	C1D-ND	2.68	1.41	1.37
33	c9	201	CYC	C4C-NC	-2.68	1.31	1.37
33	eF	201	CYC	C4C-NC	-2.68	1.31	1.37
33	JG	201	CYC	C4C-NC	-2.68	1.31	1.37
33	c5	201	CYC	C4C-NC	-2.68	1.31	1.37
33	gK	201	CYC	C4C-NC	-2.67	1.31	1.37
33	B7	301	CYC	C3D-C2D	2.67	1.45	1.37
33	iJ	202	CYC	C4C-NC	-2.67	1.31	1.37
36	cD	511	CLA	CHC-C1C	2.67	1.41	1.35
33	B6	301	CYC	C3D-C2D	2.67	1.45	1.37
33	g8	202	CYC	C4C-NC	-2.67	1.31	1.37
36	C1	510	CLA	C3D-C2D	2.67	1.46	1.39
36	dE	405	CLA	CMB-C2B	-2.67	1.46	1.51
33	eH	201	CYC	C4C-NC	-2.67	1.31	1.37
33	iI	202	CYC	C1B-NB	-2.67	1.33	1.37
36	bD	604	CLA	CMB-C2B	-2.67	1.46	1.51
33	eA	201	CYC	C4C-NC	-2.67	1.31	1.37
36	c1	502	CLA	C3B-C2B	-2.67	1.36	1.40
36	b1	605	CLA	CHC-C1C	2.67	1.41	1.35
33	cJ	201	CYC	OB-C4B	2.67	1.28	1.23
38	hE	103	SQD	C6-S	-2.67	1.67	1.77
33	VB	201	CYC	OB-C4B	2.67	1.28	1.23
33	OG	201	CYC	C4B-NB	-2.67	1.32	1.38
33	c8	201	CYC	C4C-NC	-2.67	1.31	1.37
33	cH	201	CYC	C4C-NC	-2.67	1.31	1.37
33	i8	202	CYC	C4C-NC	-2.67	1.31	1.37
36	B1	613	CLA	CMB-C2B	-2.67	1.46	1.51
33	OG	201	CYC	C3D-C2D	2.67	1.45	1.37
36	aD	404	CLA	CMD-C2D	-2.67	1.45	1.50
33	iH	202	CYC	C1B-NB	-2.67	1.33	1.37
40	DE	413	LMT	O3'-C3'	-2.67	1.36	1.43
33	e6	201	CYC	C1B-NB	-2.67	1.33	1.37
33	k2	201	CYC	C4C-NC	-2.66	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	cE	513	CLA	CMB-C2B	-2.66	1.46	1.51
33	c8	201	CYC	OB-C4B	2.66	1.28	1.23
33	B2	301	CYC	C4C-NC	-2.66	1.31	1.37
36	bE	614	CLA	CMB-C2B	-2.66	1.46	1.51
36	BE	602	CLA	C1D-ND	2.66	1.41	1.37
33	BI	301	CYC	C4C-NC	-2.66	1.31	1.37
36	CE	507	CLA	CMB-C2B	-2.66	1.46	1.51
47	vD	201	HEM	C4B-NB	-2.66	1.33	1.38
33	c7	201	CYC	OB-C4B	2.66	1.28	1.23
36	bD	610	CLA	C3B-C2B	-2.66	1.36	1.40
47	v1	201	HEM	C4B-NB	-2.66	1.33	1.38
36	d1	405	CLA	CMC-C2C	-2.66	1.45	1.50
33	i5	202	CYC	C1B-NB	-2.66	1.33	1.37
33	w4	201	CYC	C4C-NC	-2.66	1.31	1.37
33	oB	201	CYC	C4C-NC	-2.66	1.31	1.37
36	cD	505	CLA	CMB-C2B	-2.66	1.46	1.51
36	CE	505	CLA	CMD-C2D	-2.66	1.45	1.50
33	i9	202	CYC	C4C-NC	-2.66	1.31	1.37
36	cE	505	CLA	CMB-C2B	-2.66	1.46	1.51
36	c1	511	CLA	CHC-C1C	2.66	1.41	1.35
36	XD	101	CLA	CMB-C2B	-2.66	1.46	1.51
36	bE	614	CLA	C3B-C2B	-2.66	1.36	1.40
36	CE	511	CLA	CMB-C2B	-2.66	1.46	1.51
43	X1	102	BCR	C1-C6	-2.66	1.50	1.53
43	hE	105	BCR	C1-C6	-2.66	1.50	1.53
33	V4	201	CYC	OB-C4B	2.66	1.28	1.23
33	oB	201	CYC	OB-C4B	2.66	1.28	1.23
33	VB	201	CYC	C4C-NC	-2.66	1.31	1.37
33	i5	202	CYC	C4C-NC	-2.66	1.31	1.37
36	BD	602	CLA	C1D-ND	2.66	1.41	1.37
47	ED	101	HEM	C1D-ND	-2.66	1.33	1.38
33	c5	201	CYC	OB-C4B	2.66	1.28	1.23
33	lC	201	CYC	C1B-NB	-2.66	1.33	1.37
33	i6	202	CYC	C4C-NC	-2.66	1.31	1.37
33	e8	201	CYC	C4C-NC	-2.66	1.31	1.37
33	ML	201	CYC	C4A-C3A	2.66	1.51	1.45
33	2L	101	CYC	C4A-C3A	2.66	1.51	1.45
40	bE	602	LMT	O3'-C3'	-2.66	1.36	1.43
33	GG	201	CYC	C4C-NC	-2.66	1.31	1.37
33	eI	201	CYC	C4C-NC	-2.66	1.31	1.37
36	b1	604	CLA	CMB-C2B	-2.66	1.46	1.51
36	d1	406	CLA	CMB-C2B	-2.66	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	CE	510	CLA	C3D-C2D	2.66	1.46	1.39
40	CD	522	LMT	O2'-C2'	-2.66	1.36	1.43
36	dE	406	CLA	CMB-C2B	-2.66	1.46	1.51
33	B6	301	CYC	C4C-NC	-2.66	1.31	1.37
33	iH	202	CYC	C4C-NC	-2.66	1.31	1.37
40	D1	412	LMT	O3'-C3'	-2.66	1.36	1.43
36	cD	508	CLA	MG-ND	-2.66	2.00	2.05
36	cD	513	CLA	CMB-C2B	-2.66	1.46	1.51
33	i9	202	CYC	C1B-NB	-2.66	1.33	1.37
36	b1	603	CLA	CMB-C2B	-2.65	1.46	1.51
36	bE	603	CLA	CMB-C2B	-2.65	1.46	1.51
33	B3	301	CYC	C4C-NC	-2.65	1.31	1.37
33	iA	202	CYC	C1B-NB	-2.65	1.33	1.37
33	NG	201	CYC	C4B-NB	-2.65	1.32	1.38
33	1L	201	CYC	C1D-CHD	2.65	1.51	1.41
43	hD	105	BCR	C1-C6	-2.65	1.50	1.53
36	bD	603	CLA	CMB-C2B	-2.65	1.46	1.51
36	bD	614	CLA	CMB-C2B	-2.65	1.46	1.51
36	cE	512	CLA	CMB-C2B	-2.65	1.46	1.51
33	uB	201	CYC	C1B-C2B	2.65	1.49	1.45
43	h1	105	BCR	C1-C6	-2.65	1.50	1.53
33	AG	201	CYC	OB-C4B	2.65	1.28	1.23
33	i2	202	CYC	C1B-NB	-2.65	1.33	1.37
33	iC	202	CYC	C4C-NC	-2.65	1.31	1.37
36	c1	505	CLA	CHC-C1C	2.65	1.41	1.35
36	CD	507	CLA	CMB-C2B	-2.65	1.46	1.51
36	bE	613	CLA	C3B-C2B	-2.65	1.36	1.40
33	3K	101	CYC	C1B-NB	-2.65	1.33	1.37
33	c2	201	CYC	OB-C4B	2.65	1.28	1.23
33	o4	201	CYC	OB-C4B	2.65	1.28	1.23
45	aE	412	PHO	C9-C8	-2.65	1.44	1.52
36	dD	406	CLA	CMB-C2B	-2.65	1.46	1.51
33	i7	202	CYC	C4C-NC	-2.65	1.31	1.37
33	gJ	202	CYC	C4C-NC	-2.65	1.31	1.37
33	c2	201	CYC	C4C-NC	-2.65	1.31	1.37
33	g5	202	CYC	C4C-NC	-2.65	1.31	1.37
33	gH	202	CYC	C4C-NC	-2.65	1.31	1.37
36	b1	614	CLA	CMB-C2B	-2.65	1.46	1.51
33	NL	201	CYC	C4B-NB	-2.65	1.32	1.38
33	JF	201	CYC	C1C-NC	-2.65	1.34	1.37
40	C1	521	LMT	O2'-C2'	-2.65	1.36	1.43
33	1G	201	CYC	C1D-CHD	2.65	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	XD	102	BCR	C1-C6	-2.65	1.50	1.53
40	DD	413	LMT	O3'-C3'	-2.65	1.36	1.43
47	VE	201	HEM	C4B-NB	-2.65	1.33	1.38
36	cE	510	CLA	C1D-ND	2.65	1.41	1.37
33	c7	201	CYC	C4C-NC	-2.65	1.31	1.37
36	bD	613	CLA	C3B-C2B	-2.65	1.36	1.40
47	V1	201	HEM	C4B-NB	-2.65	1.33	1.38
36	c1	509	CLA	CHC-C1C	2.65	1.41	1.35
33	rB	201	CYC	C1B-NB	-2.65	1.33	1.37
33	GL	201	CYC	C4C-NC	-2.64	1.31	1.37
33	b4	101	CYC	C1D-CHD	2.64	1.51	1.41
40	i1	102	LMT	O3'-C3'	-2.64	1.36	1.43
33	iI	202	CYC	C4C-NC	-2.64	1.31	1.37
36	dD	405	CLA	CMC-C2C	-2.64	1.45	1.50
33	i3	202	CYC	C4C-NC	-2.64	1.31	1.37
36	bE	611	CLA	CMC-C2C	-2.64	1.45	1.50
33	ZF	201	CYC	C1B-NB	-2.64	1.33	1.37
33	kA	201	CYC	C1B-NB	-2.64	1.33	1.37
36	hE	102	CLA	CMB-C2B	-2.64	1.46	1.51
33	eC	201	CYC	C4C-NC	-2.64	1.31	1.37
36	HD	102	CLA	CMB-C2B	-2.64	1.46	1.51
36	dE	405	CLA	CMC-C2C	-2.64	1.45	1.50
33	e6	201	CYC	C4C-NC	-2.64	1.31	1.37
36	cD	512	CLA	CMB-C2B	-2.64	1.46	1.51
36	cE	509	CLA	CHC-C1C	2.64	1.41	1.35
33	e5	201	CYC	C1B-NB	-2.64	1.33	1.37
36	c1	504	CLA	CMB-C2B	-2.64	1.46	1.51
36	bD	611	CLA	CMC-C2C	-2.64	1.45	1.50
33	1L	201	CYC	C4C-NC	-2.64	1.31	1.37
36	ID	101	CLA	CMB-C2B	-2.64	1.46	1.51
33	z4	201	CYC	C2C-C1C	-2.64	1.49	1.52
40	B1	620	LMT	O2'-C2'	-2.64	1.36	1.43
36	b1	613	CLA	C3B-C2B	-2.64	1.36	1.40
47	EE	101	HEM	C1D-ND	-2.64	1.33	1.38
36	cE	509	CLA	C3D-C2D	2.64	1.46	1.39
36	cD	509	CLA	CHC-C1C	2.64	1.41	1.35
33	iA	202	CYC	C4C-NC	-2.64	1.31	1.37
33	B9	301	CYC	C4C-NC	-2.64	1.31	1.37
33	i6	202	CYC	C1B-NB	-2.64	1.33	1.37
33	b8	201	CYC	C1B-NB	-2.64	1.33	1.37
33	b7	201	CYC	C1B-NB	-2.64	1.33	1.37
33	PG	201	CYC	C3D-C2D	2.64	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	AL	201	CYC	OB-C4B	2.63	1.28	1.23
33	w4	201	CYC	OB-C4B	2.63	1.28	1.23
40	A1	409	LMT	O2'-C2'	-2.63	1.36	1.43
33	r4	201	CYC	C1B-NB	-2.63	1.33	1.37
33	eC	201	CYC	C1B-NB	-2.63	1.33	1.37
40	bD	602	LMT	O3'-C3'	-2.63	1.36	1.43
36	H1	102	CLA	CMB-C2B	-2.63	1.46	1.51
33	o4	201	CYC	C4C-NC	-2.63	1.31	1.37
33	KK	201	CYC	C1B-NB	-2.63	1.33	1.37
33	e8	201	CYC	C1B-NB	-2.63	1.33	1.37
47	VD	201	HEM	C4B-NB	-2.63	1.33	1.38
36	BD	605	CLA	CMB-C2B	-2.63	1.46	1.51
36	h1	101	CLA	MG-ND	-2.63	2.00	2.05
36	C1	507	CLA	CMB-C2B	-2.63	1.46	1.51
36	c1	503	CLA	CMD-C2D	-2.63	1.45	1.50
33	BA	301	CYC	C4C-NC	-2.63	1.31	1.37
33	YK	201	CYC	C4C-NC	-2.63	1.31	1.37
36	b1	611	CLA	CMC-C2C	-2.63	1.45	1.50
33	bB	101	CYC	C1D-CHD	2.63	1.51	1.41
33	fK	201	CYC	C4C-NC	-2.63	1.31	1.37
33	l6	201	CYC	C1B-NB	-2.63	1.33	1.37
33	V4	201	CYC	C4C-NC	-2.63	1.31	1.37
36	BE	604	CLA	CHC-C1C	2.63	1.41	1.35
33	l3	201	CYC	C1B-NB	-2.63	1.33	1.37
33	bI	201	CYC	C1B-NB	-2.63	1.33	1.37
36	c1	503	CLA	C1D-ND	2.63	1.41	1.37
40	A1	413	LMT	O3'-C3'	-2.63	1.36	1.43
33	1G	201	CYC	C4C-NC	-2.63	1.31	1.37
45	DD	401	PHO	CBD-CGD	-2.63	1.48	1.52
33	e3	201	CYC	C1B-NB	-2.63	1.33	1.37
36	B1	613	CLA	CMD-C2D	-2.63	1.45	1.50
36	cD	509	CLA	C3D-C2D	2.63	1.46	1.39
47	E1	101	HEM	C1D-ND	-2.63	1.33	1.38
33	fF	201	CYC	C4C-NC	-2.63	1.31	1.37
33	BC	301	CYC	C4C-NC	-2.63	1.31	1.37
33	cC	201	CYC	C1B-NB	-2.63	1.33	1.37
33	1G	201	CYC	OB-C4B	2.63	1.28	1.23
33	2G	101	CYC	C4A-C3A	2.63	1.51	1.45
36	hD	101	CLA	MG-ND	-2.63	2.00	2.05
36	hD	102	CLA	CMB-C2B	-2.63	1.46	1.51
33	PL	201	CYC	C3D-C2D	2.62	1.45	1.37
33	zB	201	CYC	C2C-C1C	-2.62	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	3F	101	CYC	C2C-C1C	-2.62	1.49	1.52
33	YF	201	CYC	C4C-NC	-2.62	1.31	1.37
36	cE	504	CLA	C1D-ND	2.62	1.41	1.37
33	b3	201	CYC	C1B-NB	-2.62	1.33	1.37
36	BD	604	CLA	CHC-C1C	2.62	1.41	1.35
36	BD	612	CLA	C3B-C2B	-2.62	1.36	1.40
33	KF	201	CYC	C1B-NB	-2.62	1.33	1.37
36	h1	102	CLA	CMB-C2B	-2.62	1.46	1.51
33	i2	202	CYC	C4C-NC	-2.62	1.31	1.37
36	HD	101	CLA	MG-ND	-2.62	2.00	2.05
36	cD	504	CLA	CMD-C2D	-2.62	1.45	1.50
33	kI	201	CYC	C1B-NB	-2.62	1.33	1.37
36	B1	604	CLA	CHC-C1C	2.62	1.41	1.35
40	b1	602	LMT	O3'-C3'	-2.62	1.36	1.43
33	GG	201	CYC	C1B-NB	-2.62	1.33	1.37
33	hF	201	CYC	C4C-NC	-2.62	1.31	1.37
33	c8	201	CYC	C1B-NB	-2.62	1.33	1.37
36	CE	509	CLA	CHC-C1C	2.62	1.41	1.35
36	B1	612	CLA	C3B-C2B	-2.62	1.36	1.40
33	l2	201	CYC	C1B-NB	-2.62	1.33	1.37
36	C1	509	CLA	CHC-C1C	2.62	1.41	1.35
33	b9	201	CYC	C1B-NB	-2.62	1.33	1.37
36	HE	102	CLA	CMB-C2B	-2.62	1.46	1.51
36	c1	509	CLA	C3D-C2D	2.62	1.46	1.39
36	b1	604	CLA	C1D-ND	2.62	1.41	1.37
36	CD	509	CLA	CHC-C1C	2.62	1.41	1.35
33	3F	101	CYC	C1B-NB	-2.62	1.33	1.37
36	cE	508	CLA	MG-ND	-2.62	2.00	2.05
33	1L	201	CYC	OB-C4B	2.62	1.28	1.23
33	PG	201	CYC	C4B-NB	-2.62	1.32	1.38
36	BD	613	CLA	C3B-C2B	-2.62	1.36	1.40
33	dJ	201	CYC	C1B-NB	-2.62	1.33	1.37
33	eJ	201	CYC	C1B-NB	-2.62	1.33	1.37
36	BD	602	CLA	CMB-C2B	-2.61	1.46	1.51
36	b1	607	CLA	CMB-C2B	-2.61	1.46	1.51
40	AD	412	LMT	O3'-C3'	-2.61	1.36	1.43
33	b5	201	CYC	C1B-NB	-2.61	1.33	1.37
33	bJ	201	CYC	C1B-NB	-2.61	1.33	1.37
36	HE	101	CLA	MG-ND	-2.61	2.00	2.05
33	eI	201	CYC	C1B-NB	-2.61	1.33	1.37
36	IE	101	CLA	CMB-C2B	-2.61	1.46	1.51
33	i3	202	CYC	C1B-NB	-2.61	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	l9	201	CYC	C1B-NB	-2.61	1.33	1.37
33	cJ	201	CYC	C1B-NB	-2.61	1.33	1.37
33	kH	201	CYC	C1B-NB	-2.61	1.33	1.37
36	c1	504	CLA	MG-ND	-2.61	2.00	2.05
33	ZK	201	CYC	C1B-NB	-2.61	1.33	1.37
36	hE	101	CLA	MG-ND	-2.61	2.00	2.05
40	AD	409	LMT	O2'-C2'	-2.61	1.36	1.43
36	a1	407	CLA	CMB-C2B	-2.61	1.46	1.51
36	BD	613	CLA	CMD-C2D	-2.61	1.45	1.50
33	u4	201	CYC	C1B-C2B	2.61	1.49	1.45
33	RL	201	CYC	C4C-NC	-2.61	1.31	1.37
33	e2	201	CYC	C1B-NB	-2.61	1.33	1.37
40	bD	601	LMT	O1'-C1'	-2.61	1.35	1.40
40	iD	103	LMT	O3'-C3'	-2.61	1.36	1.43
33	ML	201	CYC	C1D-CHD	2.61	1.51	1.41
40	iE	103	LMT	O3'-C3'	-2.61	1.36	1.43
33	IG	201	CYC	C1B-NB	-2.61	1.33	1.37
33	c3	201	CYC	C1B-NB	-2.61	1.33	1.37
33	c7	201	CYC	C1B-NB	-2.61	1.33	1.37
33	c9	201	CYC	C1B-NB	-2.61	1.33	1.37
33	eA	201	CYC	C1B-NB	-2.61	1.33	1.37
40	b1	601	LMT	O1'-C1'	-2.61	1.35	1.40
36	B1	613	CLA	C3B-C2B	-2.61	1.36	1.40
33	B7	301	CYC	C4C-NC	-2.61	1.31	1.37
33	bH	201	CYC	C1B-NB	-2.61	1.33	1.37
36	c1	512	CLA	CMB-C2B	-2.61	1.46	1.51
40	AE	409	LMT	O3'-C3'	-2.61	1.36	1.43
33	eH	201	CYC	C1B-NB	-2.61	1.33	1.37
33	c6	201	CYC	C1B-NB	-2.61	1.33	1.37
33	b2	201	CYC	C1B-NB	-2.60	1.33	1.37
33	PL	201	CYC	C4B-NB	-2.60	1.32	1.38
40	AE	412	LMT	O3'-C3'	-2.60	1.36	1.43
36	CE	510	CLA	CHC-C1C	2.60	1.41	1.35
33	bK	201	CYC	C1B-NB	-2.60	1.33	1.37
33	RG	201	CYC	C4C-NC	-2.60	1.31	1.37
33	k7	201	CYC	C1B-NB	-2.60	1.33	1.37
33	l8	201	CYC	C1B-NB	-2.60	1.33	1.37
36	bD	610	CLA	CMB-C2B	-2.60	1.46	1.51
33	lH	201	CYC	C1B-NB	-2.60	1.33	1.37
33	kJ	201	CYC	C1B-NB	-2.60	1.33	1.37
33	r4	201	CYC	C4C-NC	-2.60	1.31	1.37
36	H1	101	CLA	MG-ND	-2.60	2.00	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B1	609	CLA	CMB-C2B	-2.60	1.46	1.51
33	MG	201	CYC	C1D-CHD	2.60	1.51	1.41
36	b1	610	CLA	CMB-C2B	-2.60	1.46	1.51
33	c5	201	CYC	C1B-NB	-2.60	1.33	1.37
36	bD	607	CLA	CMB-C2B	-2.60	1.46	1.51
33	bC	201	CYC	C1B-NB	-2.60	1.33	1.37
33	dC	201	CYC	C1B-NB	-2.60	1.33	1.37
33	hK	201	CYC	C4C-NC	-2.60	1.31	1.37
36	cE	505	CLA	MG-ND	-2.60	2.00	2.05
40	A1	409	LMT	O3'-C3'	-2.60	1.36	1.43
36	bE	610	CLA	CMB-C2B	-2.60	1.46	1.51
36	BE	602	CLA	CMB-C2B	-2.60	1.46	1.51
33	O4	201	CYC	OB-C4B	2.60	1.28	1.23
33	GL	201	CYC	C1B-NB	-2.60	1.33	1.37
33	C4	1001	CYC	OB-C4B	2.60	1.28	1.23
33	cA	201	CYC	C1B-NB	-2.59	1.33	1.37
36	cE	504	CLA	CMD-C2D	-2.59	1.45	1.50
36	CD	510	CLA	CHC-C1C	2.59	1.41	1.35
36	B1	602	CLA	CMB-C2B	-2.59	1.46	1.51
36	BE	605	CLA	CMB-C2B	-2.59	1.46	1.51
33	IL	201	CYC	C1B-NB	-2.59	1.33	1.37
33	NG	201	CYC	C1C-NC	-2.59	1.34	1.37
33	IJ	201	CYC	C1B-NB	-2.59	1.33	1.37
33	OB	201	CYC	OB-C4B	2.59	1.28	1.23
33	NL	201	CYC	C2C-C1C	-2.59	1.49	1.52
33	kC	201	CYC	C1B-NB	-2.59	1.33	1.37
33	cH	201	CYC	C1B-NB	-2.59	1.33	1.37
36	cD	505	CLA	MG-ND	-2.59	2.00	2.05
33	k5	201	CYC	C1B-NB	-2.59	1.33	1.37
33	CB	1001	CYC	OB-C4B	2.59	1.28	1.23
33	z4	201	CYC	OB-C4B	2.59	1.28	1.23
33	bA	201	CYC	C1B-NB	-2.59	1.33	1.37
40	AD	409	LMT	O3'-C3'	-2.59	1.36	1.43
36	C1	510	CLA	CHC-C1C	2.59	1.41	1.35
36	DE	405	CLA	CMC-C2C	-2.59	1.45	1.50
33	4G	201	CYC	C2C-C1C	-2.59	1.49	1.52
36	B1	605	CLA	CMB-C2B	-2.59	1.46	1.51
36	aD	406	CLA	CMB-C2B	-2.59	1.46	1.51
36	BE	613	CLA	CMD-C2D	-2.59	1.45	1.50
33	k6	201	CYC	C1B-NB	-2.59	1.33	1.37
36	bD	606	CLA	CHC-C1C	2.59	1.41	1.35
33	WB	201	CYC	C1D-CHD	2.59	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BE	612	CLA	C3B-C2B	-2.59	1.36	1.40
33	k8	201	CYC	C1B-NB	-2.59	1.33	1.37
33	NL	201	CYC	C1C-NC	-2.59	1.34	1.37
36	bE	604	CLA	C1D-ND	2.59	1.41	1.37
47	VD	201	HEM	FE-NB	2.59	2.09	1.96
33	l5	201	CYC	C1B-NB	-2.59	1.33	1.37
33	cI	201	CYC	C1B-NB	-2.59	1.33	1.37
33	W4	201	CYC	C1D-CHD	2.59	1.51	1.41
36	b1	606	CLA	CHC-C1C	2.59	1.41	1.35
33	WG	201	CYC	OB-C4B	2.59	1.28	1.23
47	VD	201	HEM	C1D-ND	-2.59	1.33	1.38
33	bF	201	CYC	OB-C4B	2.58	1.28	1.23
40	C1	521	LMT	O3'-C3'	-2.58	1.36	1.43
33	c2	201	CYC	C1B-NB	-2.58	1.33	1.37
33	wB	201	CYC	OB-C4B	2.58	1.28	1.23
33	e9	201	CYC	C1B-NB	-2.58	1.33	1.37
33	zB	201	CYC	OB-C4B	2.58	1.28	1.23
36	bD	604	CLA	C1D-ND	2.58	1.41	1.37
36	BE	609	CLA	CMB-C2B	-2.58	1.46	1.51
33	bK	201	CYC	OB-C4B	2.58	1.28	1.23
33	dF	201	CYC	C4C-NC	-2.58	1.31	1.37
40	cD	501	LMT	O3'-C3'	-2.58	1.36	1.43
33	B4	1003	CYC	C1B-NB	-2.58	1.33	1.37
40	bE	601	LMT	O1'-C1'	-2.58	1.35	1.40
36	BD	609	CLA	CMB-C2B	-2.58	1.46	1.51
33	q4	201	CYC	OB-C4B	2.58	1.28	1.23
40	BE	619	LMT	O2'-C2'	-2.58	1.36	1.43
33	NK	101	CYC	C4C-NC	-2.58	1.31	1.37
33	dK	201	CYC	C4C-NC	-2.58	1.31	1.37
33	CB	1003	CYC	C1B-NB	-2.58	1.33	1.37
33	b6	201	CYC	C1B-NB	-2.58	1.33	1.37
33	k9	201	CYC	C1B-NB	-2.58	1.33	1.37
33	d8	201	CYC	C1B-NB	-2.58	1.33	1.37
40	CD	522	LMT	O3'-C3'	-2.58	1.36	1.43
47	vD	201	HEM	C1D-ND	-2.58	1.33	1.38
36	cE	504	CLA	CMC-C2C	-2.58	1.45	1.50
33	k2	201	CYC	C1B-NB	-2.58	1.33	1.37
36	b1	614	CLA	CMD-C2D	-2.58	1.45	1.50
33	lA	201	CYC	C1B-NB	-2.58	1.33	1.37
33	dH	201	CYC	C1B-NB	-2.58	1.33	1.37
40	AE	409	LMT	O2'-C2'	-2.58	1.36	1.43
36	aE	406	CLA	CMB-C2B	-2.58	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	w4	201	CYC	C2C-C1C	-2.58	1.49	1.52
33	dI	201	CYC	C1B-NB	-2.58	1.33	1.37
33	qB	201	CYC	OB-C4B	2.58	1.28	1.23
45	DE	401	PHO	CBD-CGD	-2.57	1.49	1.52
33	BC	301	CYC	C1B-NB	-2.57	1.33	1.37
40	b1	620	LMT	O2'-C2'	-2.57	1.36	1.43
36	BE	613	CLA	C3B-C2B	-2.57	1.36	1.40
36	aD	405	CLA	CHC-C1C	2.57	1.41	1.35
47	VE	201	HEM	FE-NB	2.57	2.09	1.96
47	V1	201	HEM	FE-NB	2.57	2.09	1.96
33	e7	201	CYC	C1B-NB	-2.57	1.33	1.37
36	C1	511	CLA	CMD-C2D	-2.57	1.45	1.50
36	bD	614	CLA	CMD-C2D	-2.57	1.45	1.50
33	d7	201	CYC	C1B-NB	-2.57	1.33	1.37
36	DD	405	CLA	CMC-C2C	-2.57	1.45	1.50
33	WL	201	CYC	OB-C4B	2.57	1.28	1.23
33	fK	201	CYC	C4B-NB	-2.57	1.32	1.38
47	fD	101	HEM	FE-NB	2.57	2.09	1.96
47	fE	101	HEM	FE-NB	2.57	2.09	1.96
33	bF	201	CYC	C1B-NB	-2.57	1.33	1.37
47	vE	201	HEM	C1D-ND	-2.57	1.33	1.38
36	CD	511	CLA	CMD-C2D	-2.57	1.45	1.50
47	v1	201	HEM	C1D-ND	-2.57	1.33	1.38
40	B1	619	LMT	O2'-C2'	-2.57	1.36	1.43
33	f7	201	CYC	C1B-NB	-2.57	1.33	1.37
33	l7	201	CYC	C1B-NB	-2.57	1.33	1.37
33	NF	101	CYC	C4C-NC	-2.57	1.32	1.37
40	cE	501	LMT	O3'-C3'	-2.57	1.36	1.43
47	ED	101	HEM	FE-NB	2.57	2.09	1.96
33	d9	201	CYC	C1B-NB	-2.57	1.33	1.37
36	bE	606	CLA	CHC-C1C	2.57	1.41	1.35
47	f1	101	HEM	FE-NB	2.57	2.09	1.96
36	cE	504	CLA	MG-ND	-2.57	2.00	2.05
40	bE	621	LMT	O3'-C3'	-2.57	1.36	1.43
33	QG	201	CYC	C4B-NB	-2.57	1.32	1.38
45	aD	412	PHO	CBD-CGD	-2.57	1.49	1.52
40	BD	619	LMT	O2'-C2'	-2.57	1.36	1.43
33	QB	201	CYC	C2C-C1C	-2.56	1.49	1.52
47	EE	101	HEM	FE-NB	2.56	2.09	1.96
36	bE	614	CLA	CMD-C2D	-2.56	1.45	1.50
36	a1	406	CLA	CHC-C1C	2.56	1.41	1.35
36	cD	504	CLA	CMC-C2C	-2.56	1.45	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	RL	201	CYC	OB-C4B	2.56	1.28	1.23
33	wB	201	CYC	C2C-C1C	-2.56	1.49	1.52
36	bE	607	CLA	CMB-C2B	-2.56	1.46	1.51
36	c1	503	CLA	C4B-CHC	-2.56	1.33	1.41
33	dA	201	CYC	C1B-NB	-2.56	1.33	1.37
33	fF	201	CYC	C4B-NB	-2.56	1.32	1.38
36	aE	405	CLA	CHC-C1C	2.56	1.41	1.35
47	E1	101	HEM	FE-NB	2.56	2.09	1.96
33	W4	201	CYC	OB-C4B	2.56	1.28	1.23
33	II	201	CYC	C1B-NB	-2.56	1.33	1.37
33	vB	201	CYC	C4C-NC	-2.56	1.32	1.37
36	c1	503	CLA	CMC-C2C	-2.56	1.45	1.50
40	bE	620	LMT	O2'-C2'	-2.56	1.36	1.43
47	V1	201	HEM	C1D-ND	-2.56	1.33	1.38
33	OG	201	CYC	C4C-NC	-2.56	1.32	1.37
33	b4	101	CYC	OB-C4B	2.56	1.28	1.23
40	DD	413	LMT	O2'-C2'	-2.56	1.37	1.43
33	RG	201	CYC	OB-C4B	2.56	1.28	1.23
33	BB	1003	CYC	C1B-NB	-2.56	1.33	1.37
33	B7	301	CYC	C1B-NB	-2.56	1.33	1.37
33	fK	201	CYC	C3D-C2D	2.56	1.45	1.37
36	D1	404	CLA	CMC-C2C	-2.56	1.45	1.50
33	6G	201	CYC	C1B-NB	-2.55	1.33	1.37
33	QL	201	CYC	C4B-NB	-2.55	1.32	1.38
33	mK	201	CYC	OB-C4B	2.55	1.28	1.23
33	jF	201	CYC	C1B-NB	-2.55	1.33	1.37
45	a1	413	PHO	CBD-CGD	-2.55	1.49	1.52
33	VG	201	CYC	OB-C4B	2.55	1.28	1.23
33	rB	201	CYC	C4C-NC	-2.55	1.32	1.37
33	eF	201	CYC	C4B-NB	-2.55	1.32	1.38
33	d6	201	CYC	C1B-NB	-2.55	1.33	1.37
47	vE	201	HEM	FE-NB	2.55	2.09	1.96
45	A1	412	PHO	CBD-CGD	-2.55	1.49	1.52
36	CE	511	CLA	CMD-C2D	-2.55	1.45	1.50
47	vD	201	HEM	FE-NB	2.55	2.09	1.96
36	b1	609	CLA	MG-ND	-2.55	2.00	2.05
36	b1	607	CLA	CMD-C2D	-2.55	1.45	1.50
36	cD	504	CLA	C4B-CHC	-2.55	1.33	1.41
33	WB	201	CYC	OB-C4B	2.55	1.28	1.23
33	d5	201	CYC	C1B-NB	-2.55	1.33	1.37
47	v1	201	HEM	FE-NB	2.55	2.09	1.96
33	LF	201	CYC	C4A-C3A	2.55	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BE	622	LMT	O3'-C3'	-2.55	1.37	1.43
40	B1	620	LMT	O3'-C3'	-2.55	1.37	1.43
33	3F	101	CYC	C4B-NB	-2.55	1.32	1.38
36	cE	504	CLA	C4B-CHC	-2.55	1.33	1.41
36	B1	605	CLA	CMD-C2D	-2.55	1.45	1.50
33	a4	201	CYC	C1B-C2B	2.55	1.49	1.45
40	a1	401	LMT	O3'-C3'	-2.55	1.37	1.43
40	i1	102	LMT	O2'-C2'	-2.55	1.37	1.43
36	BD	605	CLA	CMD-C2D	-2.55	1.45	1.50
33	B3	301	CYC	C1B-NB	-2.55	1.33	1.37
33	OL	201	CYC	C4C-NC	-2.55	1.32	1.37
36	BD	607	CLA	MG-ND	-2.55	2.00	2.05
36	cE	514	CLA	CMC-C2C	-2.55	1.45	1.50
33	f8	201	CYC	C1B-NB	-2.55	1.33	1.37
33	X4	201	CYC	C1D-CHD	2.55	1.51	1.41
33	6L	201	CYC	C1B-NB	-2.55	1.33	1.37
47	VE	201	HEM	C1D-ND	-2.55	1.33	1.38
33	k3	201	CYC	C1B-NB	-2.54	1.33	1.37
33	LK	201	CYC	C4A-C3A	2.54	1.51	1.45
36	A1	405	CLA	MG-ND	-2.54	2.00	2.05
40	bD	620	LMT	O2'-C2'	-2.54	1.37	1.43
33	jK	201	CYC	C1B-NB	-2.54	1.33	1.37
33	4L	201	CYC	C2C-C1C	-2.54	1.49	1.52
36	c1	507	CLA	CHC-C1C	2.54	1.41	1.35
33	B6	301	CYC	C1B-NB	-2.54	1.33	1.37
33	eK	201	CYC	C4B-NB	-2.54	1.32	1.38
40	D1	412	LMT	O2'-C2'	-2.54	1.37	1.43
33	v4	201	CYC	C4C-NC	-2.54	1.32	1.37
36	BE	607	CLA	MG-ND	-2.54	2.00	2.05
36	b1	603	CLA	CMD-C2D	-2.54	1.45	1.50
36	aE	404	CLA	CHC-C1C	2.54	1.41	1.35
33	fF	201	CYC	C3D-C2D	2.54	1.45	1.37
33	XB	201	CYC	C1D-CHD	2.54	1.51	1.41
33	d3	201	CYC	C1B-NB	-2.54	1.33	1.37
33	g8	202	CYC	C1B-NB	-2.54	1.33	1.37
36	CE	506	CLA	C1D-ND	2.54	1.40	1.37
36	bD	609	CLA	MG-ND	-2.54	2.00	2.05
33	BI	301	CYC	C1B-NB	-2.54	1.33	1.37
33	fC	201	CYC	C1B-NB	-2.54	1.33	1.37
33	Q4	201	CYC	C2C-C1C	-2.54	1.49	1.52
36	c1	514	CLA	CMC-C2C	-2.54	1.45	1.50
33	3K	101	CYC	C2C-C1C	-2.54	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	X4	201	CYC	C1A-C2A	2.54	1.49	1.45
36	cD	507	CLA	CHC-C1C	2.54	1.41	1.35
36	cE	507	CLA	CHC-C1C	2.54	1.41	1.35
33	BA	301	CYC	C1B-NB	-2.54	1.33	1.37
33	gF	201	CYC	C4B-NB	-2.54	1.32	1.38
33	OB	201	CYC	C2C-C1C	-2.54	1.49	1.52
33	C4	1003	CYC	C1B-NB	-2.54	1.33	1.37
33	gK	201	CYC	C4B-NB	-2.53	1.32	1.38
33	B4	1002	CYC	C1B-NB	-2.53	1.33	1.37
33	gH	202	CYC	C1B-NB	-2.53	1.33	1.37
33	uB	201	CYC	OB-C4B	2.53	1.28	1.23
33	bB	101	CYC	OB-C4B	2.53	1.28	1.23
33	3F	101	CYC	OB-C4B	2.53	1.28	1.23
36	bE	609	CLA	MG-ND	-2.53	2.00	2.05
36	bD	607	CLA	CMD-C2D	-2.53	1.45	1.50
33	3K	102	CYC	C4C-NC	-2.53	1.32	1.37
33	B9	301	CYC	C1B-NB	-2.53	1.33	1.37
33	3K	101	CYC	C4B-NB	-2.53	1.32	1.38
36	cD	504	CLA	MG-ND	-2.53	2.00	2.05
36	c1	504	CLA	C3B-C2B	-2.53	1.36	1.40
33	aB	201	CYC	C1B-C2B	2.53	1.49	1.45
36	b1	608	CLA	CMC-C2C	-2.53	1.45	1.50
36	dE	405	CLA	C3B-C2B	-2.53	1.36	1.40
40	DE	413	LMT	O2'-C2'	-2.53	1.37	1.43
33	u4	201	CYC	OB-C4B	2.53	1.28	1.23
36	CD	504	CLA	CHC-C1C	2.53	1.41	1.35
36	C1	512	CLA	CMB-C2B	-2.53	1.46	1.51
33	gJ	202	CYC	C1B-NB	-2.53	1.33	1.37
33	d2	201	CYC	C1B-NB	-2.53	1.33	1.37
33	fA	201	CYC	C1B-NB	-2.53	1.33	1.37
36	bD	603	CLA	CMD-C2D	-2.53	1.45	1.50
33	f2	201	CYC	C1B-NB	-2.52	1.33	1.37
33	s4	201	CYC	C1D-CHD	2.52	1.50	1.41
36	AD	405	CLA	MG-ND	-2.52	2.00	2.05
33	r4	201	CYC	C4B-NB	-2.52	1.32	1.38
36	CE	504	CLA	CHC-C1C	2.52	1.41	1.35
36	C1	504	CLA	CHC-C1C	2.52	1.41	1.35
36	cD	514	CLA	CMC-C2C	-2.52	1.45	1.50
36	a1	405	CLA	CHC-C1C	2.52	1.41	1.35
33	XB	201	CYC	C1A-C2A	2.52	1.49	1.45
36	bE	608	CLA	CMC-C2C	-2.52	1.45	1.50
36	CD	514	CLA	CMB-C2B	-2.52	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	fJ	201	CYC	C1B-NB	-2.52	1.33	1.37
33	s4	201	CYC	C4C-NC	-2.52	1.32	1.37
33	BB	1002	CYC	OB-C4B	2.52	1.28	1.23
40	iD	103	LMT	O2'-C2'	-2.52	1.37	1.43
36	BE	605	CLA	CMD-C2D	-2.52	1.45	1.50
33	sB	201	CYC	C1D-CHD	2.52	1.50	1.41
33	fH	201	CYC	C1B-NB	-2.52	1.33	1.37
33	kF	201	CYC	OB-C4B	2.52	1.28	1.23
33	3K	101	CYC	OB-C4B	2.52	1.28	1.23
33	2G	101	CYC	C1D-CHD	2.52	1.50	1.41
36	CD	506	CLA	C1D-ND	2.52	1.40	1.37
33	mF	201	CYC	OB-C4B	2.52	1.28	1.23
36	aD	404	CLA	CHC-C1C	2.52	1.41	1.35
40	BD	622	LMT	O3'-C3'	-2.52	1.37	1.43
33	kK	201	CYC	C4C-NC	-2.52	1.32	1.37
45	aE	412	PHO	CBD-CGD	-2.52	1.49	1.52
36	B1	607	CLA	MG-ND	-2.52	2.00	2.05
33	B4	1002	CYC	OB-C4B	2.51	1.28	1.23
36	AE	405	CLA	MG-ND	-2.51	2.00	2.05
33	VL	201	CYC	OB-C4B	2.51	1.28	1.23
33	a4	201	CYC	OB-C4B	2.51	1.28	1.23
33	W4	201	CYC	C4C-NC	-2.51	1.32	1.37
33	WB	201	CYC	C4C-NC	-2.51	1.32	1.37
33	2L	101	CYC	C1D-CHD	2.51	1.50	1.41
36	bE	607	CLA	CMD-C2D	-2.51	1.45	1.50
36	BD	610	CLA	MG-ND	-2.51	2.00	2.05
37	AD	406	PL9	C6-C5	2.51	1.48	1.35
33	P4	201	CYC	OB-C4B	2.51	1.28	1.23
37	A1	406	PL9	C6-C5	2.51	1.48	1.35
36	c1	503	CLA	MG-ND	-2.51	2.00	2.05
36	bD	608	CLA	CMC-C2C	-2.51	1.45	1.50
37	AE	406	PL9	C6-C5	2.51	1.48	1.35
36	BE	610	CLA	MG-ND	-2.51	2.00	2.05
36	D1	404	CLA	C3B-C2B	-2.51	1.36	1.40
40	iE	103	LMT	O2'-C2'	-2.51	1.37	1.43
43	BE	615	BCR	C30-C25	-2.51	1.50	1.53
33	BB	1002	CYC	C1B-NB	-2.51	1.33	1.37
36	CE	514	CLA	CMB-C2B	-2.51	1.46	1.51
33	fI	201	CYC	C1B-NB	-2.51	1.33	1.37
33	CB	1001	CYC	CAD-C3D	2.51	1.55	1.52
36	B1	610	CLA	MG-ND	-2.51	2.00	2.05
33	NG	201	CYC	C2C-C1C	-2.51	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	kF	201	CYC	C4C-NC	-2.51	1.32	1.37
36	CE	512	CLA	CMB-C2B	-2.51	1.46	1.51
36	CE	505	CLA	CMB-C2B	-2.51	1.46	1.51
33	f3	201	CYC	C1B-NB	-2.51	1.33	1.37
33	T4	201	CYC	OB-C4B	2.51	1.28	1.23
36	C1	506	CLA	C1D-ND	2.51	1.40	1.37
33	IK	201	CYC	C1D-CHD	2.51	1.50	1.41
36	CD	512	CLA	CMD-C2D	-2.50	1.45	1.50
33	eK	201	CYC	C1B-C2B	2.50	1.49	1.45
33	JK	201	CYC	C1D-CHD	2.50	1.50	1.41
33	3F	102	CYC	C4C-NC	-2.50	1.32	1.37
33	IF	201	CYC	C1D-CHD	2.50	1.50	1.41
33	ZB	201	CYC	C1B-NB	-2.50	1.33	1.37
36	BD	606	CLA	CMC-C2C	-2.50	1.45	1.50
40	BE	619	LMT	O3'-C3'	-2.50	1.37	1.43
33	f5	201	CYC	C1B-NB	-2.50	1.33	1.37
36	B1	606	CLA	CMC-C2C	-2.50	1.45	1.50
36	C1	505	CLA	CMB-C2B	-2.50	1.46	1.51
36	CD	512	CLA	CMB-C2B	-2.50	1.46	1.51
36	CD	505	CLA	CMB-C2B	-2.50	1.46	1.51
36	C1	514	CLA	CMB-C2B	-2.50	1.46	1.51
33	v4	201	CYC	C1B-NB	-2.50	1.33	1.37
33	hJ	201	CYC	C1B-NB	-2.50	1.33	1.37
33	B2	301	CYC	C1B-NB	-2.50	1.33	1.37
36	DD	405	CLA	C3B-C2B	-2.50	1.36	1.40
33	2L	101	CYC	C4C-NC	-2.50	1.32	1.37
36	bE	603	CLA	C3B-C2B	-2.50	1.36	1.40
33	aK	201	CYC	C1B-C2B	2.50	1.49	1.45
33	aB	201	CYC	OB-C4B	2.50	1.28	1.23
36	bE	603	CLA	CMD-C2D	-2.50	1.45	1.50
33	3F	102	CYC	C1B-NB	-2.50	1.33	1.37
33	C4	1001	CYC	CAD-C3D	2.50	1.55	1.52
36	BE	606	CLA	CMC-C2C	-2.49	1.45	1.50
36	cE	514	CLA	CMB-C2B	-2.49	1.46	1.51
33	Z4	201	CYC	C1B-NB	-2.49	1.33	1.37
36	b1	611	CLA	MG-ND	-2.49	2.00	2.05
36	cE	505	CLA	C3B-CAB	-2.49	1.42	1.47
33	sB	201	CYC	C4C-NC	-2.49	1.32	1.37
33	jJ	201	CYC	C1B-NB	-2.49	1.33	1.37
33	PB	201	CYC	OB-C4B	2.49	1.28	1.23
33	3K	102	CYC	OB-C4B	2.49	1.28	1.23
36	C1	503	CLA	C3B-C2B	-2.49	1.36	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	bE	611	CLA	MG-ND	-2.49	2.00	2.05
33	nF	201	CYC	OB-C4B	2.49	1.28	1.23
36	cD	505	CLA	C3B-C2B	-2.49	1.36	1.40
36	c1	514	CLA	CMB-C2B	-2.49	1.46	1.51
36	DE	405	CLA	C3B-C2B	-2.49	1.36	1.40
33	f6	201	CYC	C1B-NB	-2.49	1.33	1.37
33	XF	201	CYC	C4C-NC	-2.49	1.32	1.37
36	CE	512	CLA	CMD-C2D	-2.49	1.45	1.50
33	eF	201	CYC	C1B-C2B	2.49	1.49	1.45
33	cK	201	CYC	C4B-NB	-2.49	1.32	1.38
33	C4	1003	CYC	OB-C4B	2.49	1.28	1.23
33	jA	201	CYC	C1B-NB	-2.49	1.33	1.37
33	JF	201	CYC	C1D-CHD	2.49	1.50	1.41
33	cF	201	CYC	C4B-NB	-2.49	1.32	1.38
36	cD	514	CLA	CMB-C2B	-2.49	1.46	1.51
33	uB	201	CYC	C1D-CHD	2.48	1.50	1.41
36	aE	405	CLA	MG-ND	-2.48	2.00	2.05
36	CE	504	CLA	CMC-C2C	-2.48	1.45	1.50
33	h8	201	CYC	OB-C4B	2.48	1.28	1.23
40	B1	623	LMT	O3'-C3'	-2.48	1.37	1.43
33	aF	201	CYC	C1B-C2B	2.48	1.49	1.45
33	3F	102	CYC	OB-C4B	2.48	1.28	1.23
33	c2	201	CYC	C4A-C3A	2.48	1.51	1.45
40	B1	619	LMT	O3'-C3'	-2.48	1.37	1.43
33	h8	201	CYC	C1B-NB	-2.48	1.33	1.37
33	f9	201	CYC	C1B-NB	-2.48	1.33	1.37
33	g5	202	CYC	C1B-NB	-2.48	1.33	1.37
33	O4	201	CYC	C2C-C1C	-2.48	1.49	1.52
36	bD	611	CLA	MG-ND	-2.48	2.00	2.05
33	jI	201	CYC	C1B-NB	-2.48	1.33	1.37
33	ZB	201	CYC	C4C-NC	-2.48	1.32	1.37
36	aD	404	CLA	CMB-C2B	-2.48	1.46	1.51
33	XK	201	CYC	C4C-NC	-2.48	1.32	1.37
33	eK	201	CYC	OB-C4B	2.48	1.28	1.23
33	XK	201	CYC	C1D-CHD	2.48	1.50	1.41
33	cI	201	CYC	C4A-C3A	2.48	1.51	1.45
33	rB	201	CYC	C4B-NB	-2.48	1.32	1.38
40	BE	622	LMT	C3'-C2'	2.48	1.58	1.52
40	BD	619	LMT	O3'-C3'	-2.48	1.37	1.43
40	D1	411	LMT	O2'-C2'	-2.48	1.37	1.43
36	aD	405	CLA	MG-ND	-2.48	2.00	2.05
33	2G	101	CYC	C4C-NC	-2.48	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	DD	412	LMT	O2'-C2'	-2.48	1.37	1.43
40	AE	412	LMT	O2B-C2B	-2.48	1.37	1.43
33	XF	201	CYC	C1D-CHD	2.48	1.50	1.41
36	cE	505	CLA	C3B-C2B	-2.48	1.36	1.40
36	A1	404	CLA	CMB-C2B	-2.48	1.46	1.51
43	BD	615	BCR	C30-C25	-2.48	1.50	1.53
33	hI	201	CYC	C1B-NB	-2.48	1.33	1.37
36	AD	404	CLA	CMB-C2B	-2.48	1.46	1.51
33	h2	201	CYC	C1B-NB	-2.47	1.33	1.37
36	CE	509	CLA	CMB-C2B	-2.47	1.46	1.51
36	a1	406	CLA	MG-ND	-2.47	2.00	2.05
33	c6	201	CYC	C4A-C3A	2.47	1.51	1.45
33	kK	201	CYC	OB-C4B	2.47	1.28	1.23
33	jC	201	CYC	C1B-NB	-2.47	1.33	1.37
33	B4	1002	CYC	C4C-NC	-2.47	1.32	1.37
36	cE	504	CLA	CHC-C1C	2.47	1.41	1.35
33	j9	201	CYC	C1B-NB	-2.47	1.33	1.37
40	a1	401	LMT	C3'-C2'	2.47	1.58	1.52
36	BE	601	CLA	CMD-C2D	-2.47	1.45	1.50
33	h9	201	CYC	C1B-NB	-2.47	1.33	1.37
33	cA	201	CYC	C4A-C3A	2.47	1.51	1.45
33	j7	201	CYC	C1B-NB	-2.47	1.33	1.37
33	u4	201	CYC	C1D-CHD	2.47	1.50	1.41
36	AE	404	CLA	CMB-C2B	-2.47	1.46	1.51
36	BD	601	CLA	CMD-C2D	-2.47	1.45	1.50
33	cC	201	CYC	C4A-C3A	2.47	1.51	1.45
33	j8	201	CYC	C1B-NB	-2.47	1.33	1.37
36	cD	505	CLA	C3B-CAB	-2.47	1.42	1.47
36	CE	503	CLA	CMD-C2D	-2.47	1.45	1.50
33	Z4	201	CYC	C4C-NC	-2.47	1.32	1.37
33	X4	201	CYC	C4C-NC	-2.47	1.32	1.37
33	j5	201	CYC	C1B-NB	-2.47	1.33	1.37
36	cE	503	CLA	C3B-CAB	-2.47	1.42	1.47
36	bD	603	CLA	C3B-C2B	-2.47	1.36	1.40
36	CD	503	CLA	CMD-C2D	-2.47	1.45	1.50
36	B1	612	CLA	CMC-C2C	-2.47	1.45	1.50
36	bE	613	CLA	CMC-C2C	-2.47	1.45	1.50
36	c1	503	CLA	CHC-C1C	2.47	1.41	1.35
33	h7	201	CYC	C1B-NB	-2.47	1.33	1.37
36	a1	405	CLA	CMB-C2B	-2.47	1.46	1.51
36	AE	404	CLA	MG-ND	-2.47	2.00	2.05
33	cJ	201	CYC	C4A-C3A	2.47	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	C1	512	CLA	CMD-C2D	-2.47	1.45	1.50
33	vB	201	CYC	C1B-NB	-2.47	1.33	1.37
33	hC	201	CYC	C1B-NB	-2.47	1.33	1.37
33	WB	201	CYC	CMC-C2C	2.47	1.58	1.53
33	BB	1002	CYC	C4C-NC	-2.47	1.32	1.37
33	hH	201	CYC	C1B-NB	-2.47	1.33	1.37
33	jH	201	CYC	C1B-NB	-2.47	1.33	1.37
36	cD	504	CLA	CHC-C1C	2.46	1.41	1.35
33	JK	201	CYC	OB-C4B	2.46	1.28	1.23
40	DE	412	LMT	O2'-C2'	-2.46	1.37	1.43
33	h5	201	CYC	OB-C4B	2.46	1.28	1.23
36	dD	405	CLA	C3B-C2B	-2.46	1.37	1.40
33	hA	201	CYC	OB-C4B	2.46	1.28	1.23
33	XB	201	CYC	C4C-NC	-2.46	1.32	1.37
36	b1	603	CLA	C3B-C2B	-2.46	1.37	1.40
33	nK	201	CYC	OB-C4B	2.46	1.28	1.23
36	CD	504	CLA	CMC-C2C	-2.46	1.45	1.50
40	bE	620	LMT	O3'-C3'	-2.46	1.37	1.43
33	hJ	201	CYC	OB-C4B	2.46	1.28	1.23
33	h3	201	CYC	C1B-NB	-2.46	1.33	1.37
33	3K	102	CYC	C1B-NB	-2.46	1.33	1.37
33	j6	201	CYC	C1B-NB	-2.46	1.33	1.37
33	TB	201	CYC	OB-C4B	2.46	1.28	1.23
33	eF	201	CYC	OB-C4B	2.46	1.28	1.23
40	b1	620	LMT	O3'-C3'	-2.46	1.37	1.43
40	BD	622	LMT	C3'-C2'	2.46	1.58	1.52
36	C1	503	CLA	CMD-C2D	-2.46	1.45	1.50
36	c1	504	CLA	C3B-CAB	-2.46	1.42	1.47
36	aE	404	CLA	CMB-C2B	-2.46	1.46	1.51
33	JF	201	CYC	OB-C4B	2.46	1.28	1.23
33	h9	201	CYC	OB-C4B	2.46	1.28	1.23
36	C1	504	CLA	CMC-C2C	-2.46	1.45	1.50
33	b7	201	CYC	OB-C4B	2.46	1.28	1.23
36	HE	101	CLA	CMD-C2D	-2.46	1.45	1.50
33	CB	1003	CYC	C4C-NC	-2.46	1.32	1.37
36	hD	101	CLA	CMD-C2D	-2.46	1.45	1.50
33	ZB	201	CYC	C4B-NB	-2.46	1.32	1.38
43	B1	615	BCR	C30-C25	-2.46	1.50	1.53
36	h1	101	CLA	CMD-C2D	-2.46	1.45	1.50
40	BD	623	LMT	O3'-C3'	-2.46	1.37	1.43
40	jE	101	LMT	O2B-C2B	-2.46	1.37	1.43
33	CB	1003	CYC	OB-C4B	2.46	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	b8	201	CYC	OB-C4B	2.46	1.28	1.23
33	hA	201	CYC	C1B-NB	-2.46	1.33	1.37
36	CD	509	CLA	CMB-C2B	-2.45	1.46	1.51
33	C4	1003	CYC	C4C-NC	-2.45	1.32	1.37
36	A1	405	CLA	C3B-CAB	-2.45	1.42	1.47
36	d1	405	CLA	C3B-C2B	-2.45	1.37	1.40
33	cH	201	CYC	C4A-C3A	2.45	1.51	1.45
33	X4	201	CYC	OB-C4B	2.45	1.28	1.23
40	bD	620	LMT	O3'-C3'	-2.45	1.37	1.43
33	h6	201	CYC	C1B-NB	-2.45	1.33	1.37
36	c1	503	CLA	C3B-CAB	-2.45	1.42	1.47
36	B1	601	CLA	CMD-C2D	-2.45	1.45	1.50
33	hI	201	CYC	OB-C4B	2.45	1.28	1.23
33	c8	201	CYC	C4A-C3A	2.45	1.51	1.45
40	AD	412	LMT	O2B-C2B	-2.45	1.37	1.43
40	jD	101	LMT	O2B-C2B	-2.45	1.37	1.43
40	d1	412	LMT	O2'-C2'	-2.45	1.37	1.43
40	j1	101	LMT	O2B-C2B	-2.45	1.37	1.43
40	B1	623	LMT	O1'-C1'	-2.45	1.36	1.40
40	BE	623	LMT	O1'-C1'	-2.45	1.36	1.40
36	CD	503	CLA	C3B-C2B	-2.45	1.37	1.40
33	XK	201	CYC	OB-C4B	2.45	1.28	1.23
33	h2	201	CYC	OB-C4B	2.45	1.28	1.23
33	W4	201	CYC	CMC-C2C	2.45	1.58	1.53
36	cD	504	CLA	C3B-CAB	-2.45	1.43	1.47
36	AD	404	CLA	MG-ND	-2.45	2.00	2.05
36	cE	504	CLA	C3B-CAB	-2.44	1.43	1.47
33	h5	201	CYC	C1B-NB	-2.44	1.33	1.37
33	hH	201	CYC	OB-C4B	2.44	1.28	1.23
40	b1	601	LMT	O2B-C2B	-2.44	1.37	1.43
36	AD	405	CLA	C3B-CAB	-2.44	1.43	1.47
33	c3	201	CYC	C4A-C3A	2.44	1.51	1.45
40	BD	623	LMT	O1'-C1'	-2.44	1.36	1.40
33	l6	201	CYC	OB-C4B	2.44	1.28	1.23
33	c7	201	CYC	C4A-C3A	2.44	1.51	1.45
36	AE	405	CLA	C3B-CAB	-2.44	1.43	1.47
33	l8	201	CYC	OB-C4B	2.44	1.28	1.23
36	CE	503	CLA	C3B-C2B	-2.44	1.37	1.40
33	NK	101	CYC	C1D-CHD	2.44	1.50	1.41
33	j2	201	CYC	C1B-NB	-2.44	1.33	1.37
33	c5	201	CYC	C4A-C3A	2.44	1.51	1.45
33	Z4	201	CYC	C4B-NB	-2.44	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BE	623	LMT	O3'-C3'	-2.44	1.37	1.43
33	c9	201	CYC	C4A-C3A	2.44	1.51	1.45
36	hD	102	CLA	CMC-C2C	-2.44	1.45	1.50
33	h3	201	CYC	OB-C4B	2.44	1.28	1.23
40	A1	413	LMT	O2B-C2B	-2.44	1.37	1.43
36	CE	513	CLA	CMB-C2B	-2.44	1.46	1.51
36	BD	612	CLA	CMC-C2C	-2.44	1.45	1.50
33	XF	201	CYC	OB-C4B	2.44	1.28	1.23
33	h7	201	CYC	OB-C4B	2.44	1.28	1.23
36	bD	613	CLA	CMC-C2C	-2.43	1.45	1.50
40	dD	412	LMT	O2'-C2'	-2.43	1.37	1.43
36	dD	403	CLA	CMB-C2B	-2.43	1.46	1.51
33	b9	201	CYC	OB-C4B	2.43	1.28	1.23
36	A1	404	CLA	MG-ND	-2.43	2.01	2.05
36	hE	101	CLA	CMD-C2D	-2.43	1.45	1.50
33	RL	201	CYC	C1B-NB	-2.43	1.33	1.37
36	b1	613	CLA	CMC-C2C	-2.43	1.45	1.50
36	C1	509	CLA	CMB-C2B	-2.43	1.46	1.51
33	IJ	201	CYC	OB-C4B	2.43	1.28	1.23
33	T4	201	CYC	C1B-NB	-2.43	1.33	1.37
33	R4	201	CYC	C4B-NB	-2.43	1.32	1.38
33	j3	201	CYC	C1B-NB	-2.43	1.33	1.37
40	dE	412	LMT	O2'-C2'	-2.43	1.37	1.43
33	JA	201	CYC	OB-C4B	2.43	1.28	1.23
36	dE	403	CLA	CMB-C2B	-2.43	1.46	1.51
36	c1	507	CLA	C3B-C2B	-2.43	1.37	1.40
40	bE	601	LMT	O2B-C2B	-2.43	1.37	1.43
33	BB	1001	CYC	C1B-NB	-2.43	1.33	1.37
36	HD	101	CLA	CMD-C2D	-2.43	1.45	1.50
33	NF	101	CYC	C1D-CHD	2.43	1.50	1.41
43	b1	616	BCR	C30-C25	-2.43	1.50	1.53
36	BE	611	CLA	CMB-C2B	-2.43	1.46	1.51
36	BE	612	CLA	CMC-C2C	-2.43	1.45	1.50
36	H1	101	CLA	CMD-C2D	-2.43	1.45	1.50
33	h6	201	CYC	OB-C4B	2.43	1.28	1.23
33	b4	101	CYC	C4C-NC	-2.43	1.32	1.37
36	d1	403	CLA	CMB-C2B	-2.43	1.46	1.51
33	RB	201	CYC	C4B-NB	-2.43	1.32	1.38
33	q4	201	CYC	C2C-C1C	-2.42	1.49	1.52
36	BE	601	CLA	C3B-C2B	-2.42	1.37	1.40
33	BB	1003	CYC	C1B-C2B	2.42	1.49	1.45
36	H1	102	CLA	CMC-C2C	-2.42	1.45	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	lA	201	CYC	OB-C4B	2.42	1.28	1.23
33	lH	201	CYC	OB-C4B	2.42	1.28	1.23
36	BD	611	CLA	CMB-C2B	-2.42	1.46	1.51
36	B1	608	CLA	CMB-C2B	-2.42	1.46	1.51
33	v4	201	CYC	C1D-CHD	2.42	1.50	1.41
36	cD	507	CLA	C3B-C2B	-2.42	1.37	1.40
36	c1	511	CLA	CMC-C2C	-2.42	1.45	1.50
33	b6	201	CYC	OB-C4B	2.42	1.28	1.23
33	b2	201	CYC	OB-C4B	2.42	1.28	1.23
33	j6	201	CYC	OB-C4B	2.42	1.28	1.23
36	cD	511	CLA	CMC-C2C	-2.42	1.45	1.50
36	cD	510	CLA	CHC-C1C	2.42	1.41	1.35
36	BD	608	CLA	CMB-C2B	-2.42	1.46	1.51
33	XB	201	CYC	OB-C4B	2.42	1.28	1.23
33	6G	201	CYC	OB-C4B	2.42	1.28	1.23
33	hC	201	CYC	OB-C4B	2.42	1.28	1.23
36	cD	503	CLA	C3B-CAB	-2.42	1.43	1.47
33	TB	201	CYC	C1B-NB	-2.42	1.33	1.37
36	c1	510	CLA	CHC-C1C	2.41	1.41	1.35
36	BE	610	CLA	CHC-C1C	2.41	1.41	1.35
36	h1	102	CLA	CMC-C2C	-2.41	1.45	1.50
33	AL	201	CYC	C2C-C1C	-2.41	1.49	1.52
36	BE	608	CLA	CMB-C2B	-2.41	1.46	1.51
33	aK	201	CYC	OB-C4B	2.41	1.28	1.23
33	i8	202	CYC	C4A-C3A	2.41	1.51	1.45
43	bD	616	BCR	C30-C25	-2.41	1.50	1.53
36	CD	513	CLA	CMB-C2B	-2.41	1.46	1.51
33	j8	201	CYC	OB-C4B	2.41	1.28	1.23
40	bD	601	LMT	O2B-C2B	-2.41	1.37	1.43
33	l2	201	CYC	OB-C4B	2.41	1.28	1.23
33	bC	201	CYC	OB-C4B	2.41	1.28	1.23
33	vB	201	CYC	C1D-CHD	2.41	1.50	1.41
33	l5	201	CYC	OB-C4B	2.41	1.28	1.23
33	bH	201	CYC	OB-C4B	2.41	1.28	1.23
36	aE	404	CLA	MG-ND	-2.41	2.01	2.05
36	HD	102	CLA	CMC-C2C	-2.41	1.45	1.50
36	cE	512	CLA	CMD-C2D	-2.41	1.45	1.50
33	B4	1004	CYC	OB-C4B	2.41	1.28	1.23
36	BD	601	CLA	C3B-C2B	-2.41	1.37	1.40
36	cE	511	CLA	CMC-C2C	-2.41	1.45	1.50
33	lI	201	CYC	OB-C4B	2.41	1.28	1.23
33	RG	201	CYC	C1B-NB	-2.41	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	B4	1001	CYC	C1B-NB	-2.40	1.33	1.37
33	j9	201	CYC	OB-C4B	2.40	1.28	1.23
36	c1	502	CLA	C3B-CAB	-2.40	1.43	1.47
36	bD	612	CLA	CMC-C2C	-2.40	1.45	1.50
33	f7	201	CYC	OB-C4B	2.40	1.28	1.23
33	BC	301	CYC	C4A-C3A	2.40	1.51	1.45
33	AL	201	CYC	C1B-NB	-2.40	1.33	1.37
33	S4	201	CYC	C2C-C1C	-2.40	1.49	1.52
33	j5	201	CYC	OB-C4B	2.40	1.28	1.23
33	NF	101	CYC	OB-C4B	2.40	1.28	1.23
33	bI	201	CYC	OB-C4B	2.40	1.28	1.23
36	BD	610	CLA	CHC-C1C	2.40	1.41	1.35
36	aD	404	CLA	MG-ND	-2.40	2.01	2.05
33	j3	201	CYC	OB-C4B	2.40	1.28	1.23
36	HE	102	CLA	CMC-C2C	-2.40	1.45	1.50
36	B1	604	CLA	CMD-C2D	-2.40	1.45	1.50
33	f7	201	CYC	C4C-NC	-2.40	1.32	1.37
33	gH	202	CYC	C4A-C3A	2.40	1.51	1.45
36	aE	405	CLA	CMD-C2D	-2.40	1.45	1.50
33	l7	201	CYC	OB-C4B	2.40	1.28	1.23
33	aF	201	CYC	OB-C4B	2.40	1.28	1.23
36	B1	610	CLA	CHC-C1C	2.40	1.41	1.35
40	d1	413	LMT	O2'-C2'	-2.40	1.37	1.43
33	fJ	201	CYC	OB-C4B	2.40	1.28	1.23
33	B3	301	CYC	C4A-C3A	2.40	1.51	1.45
33	bA	201	CYC	OB-C4B	2.40	1.28	1.23
36	a1	406	CLA	C3B-C2B	-2.40	1.37	1.40
33	SB	201	CYC	C2C-C1C	-2.40	1.49	1.52
36	B1	611	CLA	CMB-C2B	-2.40	1.46	1.51
40	dD	413	LMT	O2'-C2'	-2.40	1.37	1.43
33	zB	201	CYC	C4A-C3A	2.40	1.51	1.45
33	jH	201	CYC	OB-C4B	2.40	1.28	1.23
33	BI	301	CYC	C4A-C3A	2.40	1.51	1.45
33	2G	101	CYC	C1B-C2B	2.39	1.49	1.45
36	C1	513	CLA	CMB-C2B	-2.39	1.46	1.51
36	eE	510	CLA	CHC-C1C	2.39	1.41	1.35
33	KF	201	CYC	C4B-NB	-2.39	1.32	1.38
33	b5	201	CYC	OB-C4B	2.39	1.28	1.23
33	jI	201	CYC	OB-C4B	2.39	1.28	1.23
33	bB	101	CYC	C4C-NC	-2.39	1.32	1.37
33	b3	201	CYC	OB-C4B	2.39	1.28	1.23
33	lC	201	CYC	OB-C4B	2.39	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	cD	503	CLA	CMD-C2D	-2.39	1.45	1.50
33	i3	202	CYC	C4A-C3A	2.39	1.51	1.45
33	e7	201	CYC	C4A-C3A	2.39	1.51	1.45
40	bD	601	LMT	O3'-C3'	-2.39	1.37	1.43
33	NK	101	CYC	OB-C4B	2.39	1.28	1.23
36	cD	505	CLA	CMD-C2D	-2.39	1.45	1.50
36	hE	102	CLA	CMC-C2C	-2.39	1.45	1.50
47	EE	101	HEM	FE-ND	-2.39	1.85	1.96
40	bE	601	LMT	O3'-C3'	-2.39	1.37	1.43
47	E1	101	HEM	FE-ND	-2.39	1.85	1.96
36	bE	612	CLA	CMC-C2C	-2.39	1.45	1.50
36	aD	405	CLA	CMD-C2D	-2.39	1.45	1.50
36	cE	503	CLA	CMD-C2D	-2.39	1.45	1.50
33	f8	201	CYC	C4C-NC	-2.39	1.32	1.37
36	B1	601	CLA	C3B-C2B	-2.39	1.37	1.40
33	d5	201	CYC	OB-C4B	2.39	1.28	1.23
33	kI	201	CYC	C4A-C3A	2.39	1.51	1.45
33	d2	201	CYC	OB-C4B	2.39	1.28	1.23
33	f5	201	CYC	OB-C4B	2.39	1.28	1.23
36	bE	613	CLA	CMD-C2D	-2.39	1.45	1.50
33	7L	201	CYC	C4A-C3A	2.39	1.51	1.45
33	VG	201	CYC	C1B-NB	-2.39	1.33	1.37
33	q4	201	CYC	C4C-NC	-2.39	1.32	1.37
33	SB	201	CYC	C1D-CHD	2.39	1.50	1.41
33	e9	201	CYC	C4A-C3A	2.39	1.51	1.45
33	oB	201	CYC	C4A-C3A	2.39	1.51	1.45
33	kJ	201	CYC	C4A-C3A	2.39	1.51	1.45
36	BD	603	CLA	MG-ND	-2.39	2.01	2.05
36	a1	405	CLA	MG-ND	-2.39	2.01	2.05
36	cE	505	CLA	CMD-C2D	-2.39	1.45	1.50
33	B7	301	CYC	C4A-C3A	2.38	1.51	1.45
33	7G	201	CYC	C4A-C3A	2.38	1.51	1.45
33	kA	201	CYC	C4A-C3A	2.38	1.51	1.45
33	l3	201	CYC	OB-C4B	2.38	1.28	1.23
33	l9	201	CYC	OB-C4B	2.38	1.28	1.23
33	g8	202	CYC	C4A-C3A	2.38	1.51	1.45
47	fD	101	HEM	FE-ND	-2.38	1.85	1.96
33	j2	201	CYC	OB-C4B	2.38	1.28	1.23
36	cD	512	CLA	CMD-C2D	-2.38	1.45	1.50
33	AG	201	CYC	C1B-NB	-2.38	1.33	1.37
47	ED	101	HEM	FE-ND	-2.38	1.85	1.96
33	f2	201	CYC	OB-C4B	2.38	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	6L	201	CYC	OB-C4B	2.38	1.28	1.23
33	d6	201	CYC	OB-C4B	2.38	1.28	1.23
36	b1	613	CLA	CMD-C2D	-2.38	1.45	1.50
33	bF	201	CYC	C4B-NB	-2.38	1.32	1.38
33	v4	201	CYC	OB-C4B	2.38	1.28	1.23
33	LL	201	CYC	C1B-NB	-2.38	1.33	1.37
33	B4	1003	CYC	C1B-C2B	2.38	1.49	1.45
33	LG	201	CYC	C1B-NB	-2.38	1.33	1.37
33	qB	201	CYC	C2C-C1C	-2.38	1.50	1.52
33	B9	301	CYC	C4A-C3A	2.38	1.50	1.45
33	vB	201	CYC	OB-C4B	2.38	1.28	1.23
47	fE	101	HEM	FE-ND	-2.38	1.85	1.96
33	f3	201	CYC	OB-C4B	2.38	1.28	1.23
33	BB	1004	CYC	OB-C4B	2.38	1.28	1.23
33	z4	201	CYC	C4A-C3A	2.38	1.50	1.45
33	iH	202	CYC	C4A-C3A	2.38	1.50	1.45
36	bD	613	CLA	CMD-C2D	-2.38	1.45	1.50
33	BA	301	CYC	C4A-C3A	2.38	1.50	1.45
33	g5	202	CYC	C4A-C3A	2.38	1.50	1.45
33	i6	202	CYC	C4A-C3A	2.38	1.50	1.45
33	cA	201	CYC	C1D-CHD	2.37	1.50	1.41
33	f9	201	CYC	OB-C4B	2.37	1.28	1.23
33	VL	201	CYC	C1B-NB	-2.37	1.33	1.37
33	gJ	202	CYC	C4A-C3A	2.37	1.50	1.45
36	c1	512	CLA	CMD-C2D	-2.37	1.45	1.50
36	BE	603	CLA	MG-ND	-2.37	2.01	2.05
33	mK	201	CYC	C1B-NB	-2.37	1.33	1.37
33	dH	201	CYC	OB-C4B	2.37	1.28	1.23
33	k7	201	CYC	C4A-C3A	2.37	1.50	1.45
33	fH	201	CYC	OB-C4B	2.37	1.28	1.23
33	B2	301	CYC	C4A-C3A	2.37	1.50	1.45
33	e5	201	CYC	C4A-C3A	2.37	1.50	1.45
33	k6	201	CYC	C4A-C3A	2.37	1.50	1.45
33	j7	201	CYC	OB-C4B	2.37	1.28	1.23
47	f1	101	HEM	FE-ND	-2.37	1.85	1.96
36	aD	405	CLA	C3B-C2B	-2.37	1.37	1.40
36	bE	615	CLA	C3B-C2B	-2.37	1.37	1.40
33	eC	201	CYC	C4A-C3A	2.37	1.50	1.45
40	dE	413	LMT	O2'-C2'	-2.37	1.37	1.43
36	b1	612	CLA	CMC-C2C	-2.37	1.45	1.50
33	d9	201	CYC	OB-C4B	2.37	1.28	1.23
36	CE	514	CLA	MG-ND	-2.37	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	fC	201	CYC	C4C-NC	-2.37	1.32	1.37
33	e2	201	CYC	C4A-C3A	2.37	1.50	1.45
33	iC	202	CYC	C4A-C3A	2.37	1.50	1.45
33	f5	201	CYC	C4C-NC	-2.37	1.32	1.37
33	k5	201	CYC	C4A-C3A	2.37	1.50	1.45
33	dJ	201	CYC	OB-C4B	2.37	1.28	1.23
33	B4	1003	CYC	C4B-NB	-2.37	1.33	1.38
33	e6	201	CYC	C4A-C3A	2.37	1.50	1.45
43	bE	616	BCR	C30-C25	-2.37	1.50	1.53
36	B1	603	CLA	C3B-C2B	-2.37	1.37	1.40
36	cE	507	CLA	C3B-C2B	-2.37	1.37	1.40
36	c1	502	CLA	CMD-C2D	-2.37	1.45	1.50
36	bE	608	CLA	CMD-C2D	-2.37	1.45	1.50
33	2L	101	CYC	C1B-C2B	2.37	1.49	1.45
33	jK	201	CYC	C4B-NB	-2.37	1.33	1.38
33	KK	201	CYC	C4B-NB	-2.37	1.33	1.38
33	bK	201	CYC	C4B-NB	-2.37	1.33	1.38
33	i2	202	CYC	C4A-C3A	2.37	1.50	1.45
36	B1	612	CLA	CMD-C2D	-2.36	1.45	1.50
33	iA	202	CYC	C4A-C3A	2.36	1.50	1.45
33	bJ	201	CYC	OB-C4B	2.36	1.28	1.23
33	fA	201	CYC	C4C-NC	-2.36	1.32	1.37
33	AG	201	CYC	C2C-C1C	-2.36	1.50	1.52
33	S4	201	CYC	C1D-CHD	2.36	1.50	1.41
36	B1	611	CLA	CMC-C2C	-2.36	1.45	1.50
36	a1	406	CLA	CMD-C2D	-2.36	1.45	1.50
36	bE	605	CLA	MG-ND	-2.36	2.01	2.05
36	b1	608	CLA	CMD-C2D	-2.36	1.45	1.50
36	bD	611	CLA	CHC-C1C	2.36	1.41	1.35
33	f8	201	CYC	OB-C4B	2.36	1.28	1.23
36	bE	611	CLA	CHC-C1C	2.36	1.41	1.35
33	SB	201	CYC	C4C-NC	-2.36	1.32	1.37
33	B6	301	CYC	C4A-C3A	2.36	1.50	1.45
33	iI	202	CYC	C4A-C3A	2.36	1.50	1.45
36	BD	604	CLA	CMD-C2D	-2.36	1.45	1.50
37	D1	407	PL9	C6-C5	2.36	1.47	1.35
33	BB	1003	CYC	C4B-NB	-2.36	1.33	1.38
36	b1	611	CLA	CHC-C1C	2.36	1.41	1.35
33	k9	201	CYC	C4A-C3A	2.36	1.50	1.45
33	f9	201	CYC	C4C-NC	-2.36	1.32	1.37
40	b1	601	LMT	O3'-C3'	-2.36	1.37	1.43
33	i5	202	CYC	C4A-C3A	2.36	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	k8	201	CYC	C4A-C3A	2.36	1.50	1.45
36	dD	405	CLA	CMD-C2D	-2.36	1.45	1.50
33	BB	1002	CYC	C4B-NB	-2.36	1.33	1.38
33	fH	201	CYC	C4C-NC	-2.36	1.32	1.37
47	vE	201	HEM	FE-ND	-2.36	1.85	1.96
33	jJ	201	CYC	OB-C4B	2.36	1.28	1.23
33	i7	202	CYC	C4A-C3A	2.36	1.50	1.45
33	dC	201	CYC	OB-C4B	2.36	1.28	1.23
40	jD	101	LMT	O2'-C2'	-2.36	1.37	1.43
33	S4	201	CYC	C4C-NC	-2.36	1.32	1.37
33	eA	201	CYC	C4A-C3A	2.36	1.50	1.45
33	iJ	202	CYC	C4A-C3A	2.36	1.50	1.45
33	jF	201	CYC	C4B-NB	-2.36	1.33	1.38
33	f6	201	CYC	OB-C4B	2.36	1.28	1.23
33	fF	201	CYC	OB-C4B	2.36	1.28	1.23
33	kH	201	CYC	C4A-C3A	2.36	1.50	1.45
36	BD	612	CLA	CMD-C2D	-2.36	1.45	1.50
33	jC	201	CYC	OB-C4B	2.36	1.28	1.23
33	mF	201	CYC	C1B-NB	-2.36	1.33	1.37
36	B1	603	CLA	MG-ND	-2.36	2.01	2.05
33	dI	201	CYC	OB-C4B	2.36	1.28	1.23
40	j1	101	LMT	O2'-C2'	-2.35	1.37	1.43
33	k2	201	CYC	C4A-C3A	2.35	1.50	1.45
33	JG	201	CYC	OB-C4B	2.35	1.28	1.23
33	c8	201	CYC	C1D-CHD	2.35	1.50	1.41
47	V1	201	HEM	FE-ND	-2.35	1.85	1.96
36	BE	604	CLA	CMD-C2D	-2.35	1.45	1.50
33	c2	201	CYC	C1D-CHD	2.35	1.50	1.41
36	d1	406	CLA	MG-ND	-2.35	2.01	2.05
36	BE	612	CLA	CMD-C2D	-2.35	1.45	1.50
33	d9	201	CYC	C4C-NC	-2.35	1.32	1.37
36	BE	603	CLA	C3B-C2B	-2.35	1.37	1.40
33	QB	201	CYC	C4C-NC	-2.35	1.32	1.37
47	VD	201	HEM	FE-ND	-2.35	1.85	1.96
33	eH	201	CYC	C4A-C3A	2.35	1.50	1.45
33	fC	201	CYC	OB-C4B	2.35	1.28	1.23
40	bD	601	LMT	O3B-C3B	-2.35	1.37	1.43
33	k3	201	CYC	C4A-C3A	2.35	1.50	1.45
33	oB	201	CYC	C4B-NB	-2.35	1.33	1.38
36	CD	514	CLA	MG-ND	-2.35	2.01	2.05
36	bD	605	CLA	MG-ND	-2.35	2.01	2.05
36	bE	612	CLA	CMB-C2B	-2.35	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	vD	201	HEM	FE-ND	-2.35	1.85	1.96
36	dE	406	CLA	MG-ND	-2.35	2.01	2.05
33	qB	201	CYC	C4C-NC	-2.35	1.32	1.37
33	d3	201	CYC	OB-C4B	2.35	1.28	1.23
33	LL	201	CYC	CMB-C2B	-2.35	1.45	1.50
37	DD	408	PL9	C6-C5	2.35	1.47	1.35
33	c6	201	CYC	C1D-CHD	2.35	1.50	1.41
33	cH	201	CYC	C1D-CHD	2.35	1.50	1.41
47	VE	201	HEM	FE-ND	-2.35	1.85	1.96
40	b1	601	LMT	O3B-C3B	-2.35	1.37	1.43
36	BD	611	CLA	CMC-C2C	-2.35	1.45	1.50
33	d8	201	CYC	OB-C4B	2.35	1.28	1.23
33	fK	201	CYC	OB-C4B	2.35	1.28	1.23
33	i9	202	CYC	C4A-C3A	2.35	1.50	1.45
36	b1	612	CLA	CMB-C2B	-2.35	1.46	1.51
33	cC	201	CYC	C1D-CHD	2.35	1.50	1.41
36	cE	511	CLA	CMD-C2D	-2.35	1.45	1.50
36	bE	611	CLA	C4B-CHC	-2.35	1.34	1.41
33	c7	201	CYC	C1D-CHD	2.35	1.50	1.41
33	fI	201	CYC	OB-C4B	2.35	1.28	1.23
36	bD	612	CLA	CMB-C2B	-2.35	1.46	1.51
36	dE	405	CLA	CMD-C2D	-2.35	1.45	1.50
36	c1	504	CLA	CMD-C2D	-2.35	1.45	1.50
33	cJ	201	CYC	C1D-CHD	2.35	1.50	1.41
33	fA	201	CYC	OB-C4B	2.35	1.28	1.23
33	B4	1002	CYC	C4B-NB	-2.35	1.33	1.38
33	d5	201	CYC	C4C-NC	-2.35	1.32	1.37
36	bD	615	CLA	C3B-C2B	-2.35	1.37	1.40
36	C1	515	CLA	CMB-C2B	-2.35	1.46	1.51
33	TG	201	CYC	C1B-NB	-2.35	1.33	1.37
33	JF	201	CYC	C4D-CHA	2.35	1.50	1.41
33	o4	201	CYC	C4A-C3A	2.35	1.50	1.45
33	sB	201	CYC	C1B-NB	-2.35	1.33	1.37
36	b1	605	CLA	MG-ND	-2.34	2.01	2.05
33	c9	201	CYC	C1D-CHD	2.34	1.50	1.41
33	e8	201	CYC	C4A-C3A	2.34	1.50	1.45
33	C4	1001	CYC	C1A-C2A	2.34	1.49	1.45
33	R4	201	CYC	C1D-CHD	2.34	1.50	1.41
37	aD	408	PL9	C6-C5	2.34	1.47	1.35
33	RB	201	CYC	C1D-CHD	2.34	1.50	1.41
33	c3	201	CYC	C1D-CHD	2.34	1.50	1.41
37	a1	409	PL9	C6-C5	2.34	1.47	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	bD	611	CLA	C4B-CHC	-2.34	1.34	1.41
33	JL	201	CYC	OB-C4B	2.34	1.28	1.23
33	dA	201	CYC	OB-C4B	2.34	1.28	1.23
33	j7	201	CYC	C4C-NC	-2.34	1.32	1.37
36	B1	606	CLA	CMD-C2D	-2.34	1.45	1.50
33	eI	201	CYC	C4A-C3A	2.34	1.50	1.45
33	AL	201	CYC	C1D-CHD	2.34	1.50	1.41
33	f6	201	CYC	C4C-NC	-2.34	1.32	1.37
36	b1	606	CLA	CMD-C2D	-2.34	1.45	1.50
33	JK	201	CYC	C4D-CHA	2.34	1.50	1.41
33	h7	201	CYC	C4C-NC	-2.34	1.32	1.37
36	CE	515	CLA	CMB-C2B	-2.34	1.46	1.51
36	BD	606	CLA	CMD-C2D	-2.34	1.45	1.50
36	bD	608	CLA	CMD-C2D	-2.34	1.45	1.50
33	e3	201	CYC	C4A-C3A	2.34	1.50	1.45
36	BE	613	CLA	C3B-CAB	-2.34	1.43	1.47
33	f3	201	CYC	C4C-NC	-2.34	1.32	1.37
36	CE	509	CLA	MG-ND	-2.34	2.01	2.05
40	j1	101	LMT	O3B-C3B	-2.34	1.37	1.43
47	v1	201	HEM	FE-ND	-2.34	1.85	1.96
33	cI	201	CYC	C1D-CHD	2.34	1.50	1.41
36	AE	405	CLA	CMD-C2D	-2.34	1.45	1.50
33	k8	201	CYC	C1D-CHD	2.34	1.50	1.41
36	aE	405	CLA	C3B-C2B	-2.34	1.37	1.40
33	o4	201	CYC	C4B-NB	-2.34	1.33	1.38
33	Q4	201	CYC	C4C-NC	-2.34	1.32	1.37
33	hA	201	CYC	C4C-NC	-2.34	1.32	1.37
36	CD	515	CLA	CMB-C2B	-2.34	1.46	1.51
36	b1	611	CLA	C4B-CHC	-2.34	1.34	1.41
33	fJ	201	CYC	C4C-NC	-2.34	1.32	1.37
37	dD	408	PL9	C6-C5	2.34	1.47	1.35
33	c5	201	CYC	C1D-CHD	2.34	1.50	1.41
36	b1	615	CLA	C3B-C2B	-2.34	1.37	1.40
36	BD	610	CLA	C4B-CHC	-2.34	1.34	1.41
33	ZK	201	CYC	OB-C4B	2.34	1.28	1.23
33	bF	201	CYC	C1D-CHD	2.34	1.50	1.41
33	s4	201	CYC	C1B-NB	-2.34	1.33	1.37
37	aE	408	PL9	C6-C5	2.34	1.47	1.35
33	d7	201	CYC	OB-C4B	2.34	1.28	1.23
36	bE	610	CLA	CMC-C2C	-2.34	1.45	1.50
36	cD	509	CLA	C3B-C2B	-2.34	1.37	1.40
33	kJ	201	CYC	C1D-CHD	2.34	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	f2	201	CYC	C4C-NC	-2.34	1.32	1.37
33	f1	201	CYC	C4C-NC	-2.34	1.32	1.37
36	bD	610	CLA	CMC-C2C	-2.34	1.45	1.50
33	ZF	201	CYC	OB-C4B	2.34	1.28	1.23
36	cD	511	CLA	CMD-C2D	-2.33	1.45	1.50
33	LF	201	CYC	OB-C4B	2.33	1.28	1.23
37	DE	408	PL9	C6-C5	2.33	1.47	1.35
36	bE	614	CLA	MG-ND	-2.33	2.01	2.05
36	BE	611	CLA	CMC-C2C	-2.33	1.45	1.50
36	BE	610	CLA	C4B-CHC	-2.33	1.34	1.41
36	B1	614	CLA	CMD-C2D	-2.33	1.45	1.50
33	d7	201	CYC	C4C-NC	-2.33	1.32	1.37
33	4L	201	CYC	C4B-NB	-2.33	1.33	1.38
36	BD	603	CLA	C3B-C2B	-2.33	1.37	1.40
33	7G	201	CYC	CHD-C4C	-2.33	1.32	1.38
36	B1	602	CLA	CMD-C2D	-2.33	1.45	1.50
33	eI	201	CYC	C1D-CHD	2.33	1.50	1.41
33	z4	201	CYC	C4C-NC	-2.33	1.32	1.37
33	eJ	201	CYC	C4A-C3A	2.33	1.50	1.45
33	k2	201	CYC	C1D-CHD	2.33	1.50	1.41
33	CB	1001	CYC	C1A-C2A	2.33	1.49	1.45
40	jE	101	LMT	O3B-C3B	-2.33	1.37	1.43
33	e3	201	CYC	C1D-CHD	2.33	1.50	1.41
33	h6	201	CYC	C4C-NC	-2.33	1.32	1.37
33	LG	201	CYC	OB-C4B	2.33	1.28	1.23
33	i2	202	CYC	C1D-CHD	2.33	1.50	1.41
33	j8	201	CYC	C4C-NC	-2.33	1.32	1.37
33	iA	202	CYC	C1D-CHD	2.33	1.50	1.41
37	dE	408	PL9	C6-C5	2.33	1.47	1.35
33	kC	201	CYC	C4A-C3A	2.33	1.50	1.45
36	d1	405	CLA	CMD-C2D	-2.33	1.45	1.50
36	dD	406	CLA	MG-ND	-2.33	2.01	2.05
33	iI	202	CYC	C1D-CHD	2.33	1.50	1.41
33	IK	201	CYC	OB-C4B	2.33	1.28	1.23
36	B1	613	CLA	C3B-CAB	-2.33	1.43	1.47
33	kI	201	CYC	C1D-CHD	2.33	1.50	1.41
33	h5	201	CYC	C4C-NC	-2.33	1.32	1.37
33	hC	201	CYC	C4C-NC	-2.33	1.32	1.37
33	i8	202	CYC	C1D-CHD	2.33	1.50	1.41
33	k5	201	CYC	C1D-CHD	2.33	1.50	1.41
33	h3	201	CYC	C4C-NC	-2.33	1.32	1.37
36	bD	606	CLA	CMD-C2D	-2.33	1.45	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	kA	201	CYC	C1D-CHD	2.33	1.50	1.41
36	C1	509	CLA	CMD-C2D	-2.33	1.45	1.50
33	s4	201	CYC	OB-C4B	2.33	1.28	1.23
33	kH	201	CYC	C1D-CHD	2.33	1.50	1.41
33	hJ	201	CYC	C4C-NC	-2.32	1.32	1.37
33	v4	201	CYC	C1B-C2B	2.32	1.49	1.45
36	CD	509	CLA	MG-ND	-2.32	2.01	2.05
33	j9	201	CYC	C4C-NC	-2.32	1.32	1.37
33	hH	201	CYC	C4C-NC	-2.32	1.32	1.37
33	k9	201	CYC	C1D-CHD	2.32	1.50	1.41
33	4G	201	CYC	C4B-NB	-2.32	1.33	1.38
33	k3	201	CYC	C1D-CHD	2.32	1.50	1.41
33	IF	201	CYC	OB-C4B	2.32	1.28	1.23
33	h2	201	CYC	C4C-NC	-2.32	1.32	1.37
37	d1	408	PL9	C6-C5	2.32	1.47	1.35
33	d2	201	CYC	C4C-NC	-2.32	1.32	1.37
36	B1	610	CLA	C4B-CHC	-2.32	1.34	1.41
40	jE	101	LMT	O2'-C2'	-2.32	1.37	1.43
33	d8	201	CYC	C4C-NC	-2.32	1.32	1.37
33	LL	201	CYC	OB-C4B	2.32	1.28	1.23
33	iC	202	CYC	C1D-CHD	2.32	1.50	1.41
33	bK	201	CYC	C1D-CHD	2.32	1.50	1.41
33	e2	201	CYC	C1D-CHD	2.32	1.50	1.41
40	jD	101	LMT	O3B-C3B	-2.32	1.37	1.43
33	bA	201	CYC	C4C-NC	-2.32	1.32	1.37
36	CE	506	CLA	CMC-C2C	-2.32	1.45	1.50
33	7L	201	CYC	CHD-C4C	-2.32	1.32	1.38
33	dH	201	CYC	C4C-NC	-2.32	1.32	1.37
33	LG	201	CYC	CMB-C2B	-2.32	1.45	1.50
36	A1	405	CLA	CMD-C2D	-2.32	1.45	1.50
33	LG	201	CYC	C4A-C3A	2.32	1.50	1.45
33	e9	201	CYC	C1D-CHD	2.32	1.50	1.41
33	d3	201	CYC	C4C-NC	-2.32	1.32	1.37
33	sB	201	CYC	OB-C4B	2.32	1.28	1.23
33	dC	201	CYC	C4C-NC	-2.32	1.32	1.37
33	i9	202	CYC	C1D-CHD	2.32	1.50	1.41
33	iH	202	CYC	C1D-CHD	2.32	1.50	1.41
36	BD	602	CLA	CMD-C2D	-2.32	1.45	1.50
33	i6	202	CYC	C1D-CHD	2.32	1.50	1.41
33	QB	201	CYC	C1A-C2A	2.32	1.49	1.45
33	d6	201	CYC	C4C-NC	-2.32	1.32	1.37
33	eH	201	CYC	C1D-CHD	2.32	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	zB	201	CYC	C4C-NC	-2.32	1.32	1.37
45	aD	412	PHO	C7-C8	2.32	1.64	1.52
33	y4	201	CYC	C1D-CHD	2.32	1.50	1.41
33	j6	201	CYC	C4C-NC	-2.32	1.32	1.37
33	e6	201	CYC	C1D-CHD	2.32	1.50	1.41
33	eJ	201	CYC	C1D-CHD	2.32	1.50	1.41
36	dD	406	CLA	CMC-C2C	-2.32	1.45	1.50
33	i3	202	CYC	C1D-CHD	2.32	1.50	1.41
40	b1	601	LMT	O2'-C2'	-2.31	1.37	1.43
33	TG	201	CYC	C4B-NB	-2.31	1.33	1.38
33	jJ	201	CYC	C4C-NC	-2.31	1.32	1.37
33	BA	301	CYC	C1D-CHD	2.31	1.50	1.41
33	eA	201	CYC	C1D-CHD	2.31	1.50	1.41
33	gJ	202	CYC	C1D-CHD	2.31	1.50	1.41
33	TL	201	CYC	C4B-NB	-2.31	1.33	1.38
36	d1	406	CLA	CMC-C2C	-2.31	1.45	1.50
33	k7	201	CYC	C1D-CHD	2.31	1.50	1.41
36	CE	508	CLA	C3B-C2B	-2.31	1.37	1.40
36	CD	511	CLA	C4B-CHC	-2.31	1.34	1.41
33	KF	201	CYC	OB-C4B	2.31	1.28	1.23
33	dJ	201	CYC	C4C-NC	-2.31	1.32	1.37
40	bE	601	LMT	O3B-C3B	-2.31	1.37	1.43
33	h9	201	CYC	C4C-NC	-2.31	1.32	1.37
36	bE	606	CLA	CMD-C2D	-2.31	1.45	1.50
36	AD	405	CLA	CMD-C2D	-2.31	1.45	1.50
33	j3	201	CYC	C4C-NC	-2.31	1.32	1.37
33	2G	101	CYC	OB-C4B	2.31	1.28	1.23
36	bD	614	CLA	MG-ND	-2.31	2.01	2.05
33	k6	201	CYC	C1D-CHD	2.31	1.50	1.41
36	CD	509	CLA	CMD-C2D	-2.31	1.45	1.50
36	c1	507	CLA	CMC-C2C	-2.31	1.45	1.50
33	e5	201	CYC	C1D-CHD	2.31	1.50	1.41
33	AG	201	CYC	C1D-CHD	2.31	1.50	1.41
33	h8	201	CYC	C4C-NC	-2.31	1.32	1.37
33	gF	201	CYC	OB-C4B	2.31	1.28	1.23
36	CD	506	CLA	CMC-C2C	-2.31	1.45	1.50
36	B1	609	CLA	CMC-C2C	-2.31	1.45	1.50
33	Q4	201	CYC	C1B-NB	-2.31	1.33	1.37
36	aD	406	CLA	CMD-C2D	-2.31	1.45	1.50
36	cD	507	CLA	CMC-C2C	-2.31	1.45	1.50
40	bD	601	LMT	O2'-C2'	-2.31	1.37	1.43
33	TL	201	CYC	C1B-NB	-2.31	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	yB	201	CYC	C1D-CHD	2.31	1.50	1.41
33	iJ	202	CYC	C1D-CHD	2.31	1.50	1.41
36	IE	101	CLA	CMD-C2D	-2.31	1.45	1.50
33	kC	201	CYC	C1D-CHD	2.31	1.50	1.41
40	BE	622	LMT	O2'-C2'	-2.31	1.37	1.43
33	j5	201	CYC	C4C-NC	-2.31	1.32	1.37
40	bE	601	LMT	O2'-C2'	-2.31	1.37	1.43
33	eC	201	CYC	C1D-CHD	2.31	1.50	1.41
36	CE	511	CLA	C4B-CHC	-2.31	1.34	1.41
33	LK	201	CYC	OB-C4B	2.31	1.28	1.23
33	B7	301	CYC	C1D-CHD	2.31	1.50	1.41
33	B9	301	CYC	C1D-CHD	2.31	1.50	1.41
36	BD	614	CLA	CMD-C2D	-2.30	1.45	1.50
36	C1	514	CLA	MG-ND	-2.30	2.01	2.05
36	BD	613	CLA	C3B-CAB	-2.30	1.43	1.47
33	BI	301	CYC	C1D-CHD	2.30	1.50	1.41
33	B3	301	CYC	C1D-CHD	2.30	1.50	1.41
36	BD	609	CLA	CMD-C2D	-2.30	1.45	1.50
36	I1	101	CLA	CMD-C2D	-2.30	1.45	1.50
36	b1	610	CLA	CMC-C2C	-2.30	1.45	1.50
36	c1	511	CLA	CMD-C2D	-2.30	1.45	1.50
36	C1	508	CLA	C3B-C2B	-2.30	1.37	1.40
33	BC	301	CYC	C1D-CHD	2.30	1.50	1.41
33	i7	202	CYC	C1D-CHD	2.30	1.50	1.41
36	cE	509	CLA	C3B-C2B	-2.30	1.37	1.40
36	c1	505	CLA	CMC-C2C	-2.30	1.45	1.50
33	i5	202	CYC	C1D-CHD	2.30	1.50	1.41
33	jH	201	CYC	C4C-NC	-2.30	1.32	1.37
33	gH	202	CYC	C1D-CHD	2.30	1.50	1.41
33	e8	201	CYC	C1D-CHD	2.30	1.50	1.41
36	b1	605	CLA	C3B-C2B	-2.30	1.37	1.40
33	g8	202	CYC	C1D-CHD	2.30	1.50	1.41
36	dE	406	CLA	CMC-C2C	-2.30	1.45	1.50
33	QG	201	CYC	OB-C4B	2.30	1.28	1.23
36	b1	614	CLA	MG-ND	-2.30	2.01	2.05
36	C1	511	CLA	C4B-CHC	-2.30	1.34	1.41
33	dI	201	CYC	C4C-NC	-2.30	1.32	1.37
33	e7	201	CYC	C1D-CHD	2.30	1.50	1.41
33	cF	201	CYC	C1B-NB	-2.30	1.34	1.37
36	BE	609	CLA	CMC-C2C	-2.30	1.45	1.50
36	CE	509	CLA	CMD-C2D	-2.30	1.45	1.50
36	B1	609	CLA	CMD-C2D	-2.30	1.45	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	b1	610	CLA	CMD-C2D	-2.30	1.45	1.50
33	b2	201	CYC	C4C-NC	-2.30	1.32	1.37
33	jA	201	CYC	C4C-NC	-2.30	1.32	1.37
36	DD	405	CLA	CMD-C2D	-2.30	1.45	1.50
40	BD	623	LMT	O2'-C2'	-2.30	1.37	1.43
33	dA	201	CYC	C4C-NC	-2.30	1.32	1.37
33	B2	301	CYC	C1D-CHD	2.30	1.50	1.41
36	BE	610	CLA	CMD-C2D	-2.30	1.45	1.50
36	bD	611	CLA	CMD-C2D	-2.30	1.45	1.50
33	gK	201	CYC	OB-C4B	2.30	1.28	1.23
36	c1	506	CLA	C3B-C2B	-2.30	1.37	1.40
36	c1	509	CLA	C3B-C2B	-2.30	1.37	1.40
33	4L	201	CYC	C1B-NB	-2.30	1.34	1.37
36	c1	506	CLA	MG-ND	-2.30	2.01	2.05
36	bE	611	CLA	CMD-C2D	-2.30	1.45	1.50
33	vB	201	CYC	C1B-C2B	2.29	1.49	1.45
33	b7	201	CYC	C4C-NC	-2.29	1.32	1.37
33	g5	202	CYC	C1D-CHD	2.29	1.50	1.41
36	BE	606	CLA	CMD-C2D	-2.29	1.45	1.50
33	jC	201	CYC	C4C-NC	-2.29	1.32	1.37
36	CD	508	CLA	C3B-C2B	-2.29	1.37	1.40
33	hI	201	CYC	C4C-NC	-2.29	1.32	1.37
36	ID	101	CLA	CMD-C2D	-2.29	1.45	1.50
33	2L	101	CYC	OB-C4B	2.29	1.27	1.23
33	bJ	201	CYC	C4C-NC	-2.29	1.32	1.37
36	bD	610	CLA	CMD-C2D	-2.29	1.45	1.50
33	WG	201	CYC	C1B-NB	-2.29	1.34	1.37
36	bD	606	CLA	C3B-CAB	-2.29	1.43	1.47
36	cE	512	CLA	MG-ND	-2.29	2.01	2.05
36	bE	606	CLA	C3B-CAB	-2.29	1.43	1.47
36	B1	613	CLA	MG-ND	-2.29	2.01	2.05
33	B6	301	CYC	C1D-CHD	2.29	1.50	1.41
33	4G	201	CYC	C1B-NB	-2.29	1.34	1.37
36	BD	609	CLA	CMC-C2C	-2.29	1.45	1.50
36	a1	407	CLA	CMD-C2D	-2.29	1.45	1.50
36	C1	509	CLA	MG-ND	-2.29	2.01	2.05
45	a1	413	PHO	CAA-C2A	2.29	1.59	1.54
40	BD	622	LMT	O2B-C2B	-2.29	1.37	1.43
36	B1	604	CLA	C3B-CAB	-2.29	1.43	1.47
33	LK	201	CYC	C1B-NB	-2.29	1.34	1.37
36	BE	609	CLA	CMD-C2D	-2.29	1.45	1.50
33	j2	201	CYC	C4C-NC	-2.29	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	DD	406	CLA	MG-ND	-2.29	2.01	2.05
36	bD	604	CLA	CMD-C2D	-2.29	1.46	1.50
36	b1	606	CLA	C3B-CAB	-2.29	1.43	1.47
36	cD	506	CLA	CMC-C2C	-2.29	1.46	1.50
33	ZB	201	CYC	C1B-C2B	2.29	1.49	1.45
33	LL	201	CYC	C4A-C3A	2.29	1.50	1.45
33	mK	201	CYC	C1D-CHD	2.29	1.50	1.41
33	KK	201	CYC	OB-C4B	2.29	1.27	1.23
36	BD	610	CLA	CMD-C2D	-2.29	1.46	1.50
36	DD	406	CLA	CMC-C2C	-2.29	1.46	1.50
36	b1	611	CLA	CMD-C2D	-2.28	1.46	1.50
36	bD	605	CLA	C3B-C2B	-2.28	1.37	1.40
33	BB	1004	CYC	C1B-NB	-2.28	1.34	1.37
36	bE	615	CLA	CMD-C2D	-2.28	1.46	1.50
36	DE	405	CLA	CMD-C2D	-2.28	1.46	1.50
36	C1	506	CLA	CMC-C2C	-2.28	1.46	1.50
36	cE	506	CLA	MG-ND	-2.28	2.01	2.05
40	BD	622	LMT	O2'-C2'	-2.28	1.37	1.43
33	y4	201	CYC	OB-C4B	2.28	1.27	1.23
36	B1	610	CLA	CMD-C2D	-2.28	1.46	1.50
33	bI	201	CYC	C4C-NC	-2.28	1.32	1.37
33	C4	1001	CYC	C1B-NB	-2.28	1.34	1.37
40	a1	401	LMT	O2'-C2'	-2.28	1.37	1.43
33	b3	201	CYC	C4C-NC	-2.28	1.32	1.37
33	bH	201	CYC	C4C-NC	-2.28	1.32	1.37
33	b8	201	CYC	C4C-NC	-2.28	1.32	1.37
33	cK	201	CYC	C1B-NB	-2.28	1.34	1.37
36	D1	405	CLA	MG-ND	-2.28	2.01	2.05
33	OG	201	CYC	OB-C4B	2.28	1.27	1.23
40	a1	401	LMT	O2B-C2B	-2.28	1.37	1.43
36	B1	614	CLA	C3B-C2B	-2.28	1.37	1.40
36	BD	613	CLA	MG-ND	-2.28	2.01	2.05
33	QL	201	CYC	OB-C4B	2.28	1.27	1.23
40	BE	623	LMT	O2'-C2'	-2.28	1.37	1.43
36	aE	406	CLA	CMD-C2D	-2.28	1.46	1.50
36	DE	406	CLA	MG-ND	-2.28	2.01	2.05
33	OL	201	CYC	OB-C4B	2.28	1.27	1.23
36	iE	101	CLA	MG-ND	-2.28	2.01	2.05
33	b9	201	CYC	C4C-NC	-2.28	1.32	1.37
36	D1	405	CLA	CMC-C2C	-2.28	1.46	1.50
36	b1	615	CLA	CMD-C2D	-2.28	1.46	1.50
33	QB	201	CYC	C1B-C2B	2.28	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	bE	604	CLA	CMD-C2D	-2.27	1.46	1.50
40	B1	623	LMT	O2'-C2'	-2.27	1.37	1.43
33	WL	201	CYC	C1B-NB	-2.27	1.34	1.37
36	BD	604	CLA	C3B-CAB	-2.27	1.43	1.47
33	Q4	201	CYC	C1A-C2A	2.27	1.49	1.45
33	QB	201	CYC	C4A-C3A	2.27	1.50	1.45
36	D1	404	CLA	CMD-C2D	-2.27	1.46	1.50
36	BE	602	CLA	CMD-C2D	-2.27	1.46	1.50
36	cD	506	CLA	MG-ND	-2.27	2.01	2.05
36	HE	102	CLA	C3B-C2B	-2.27	1.37	1.40
33	b6	201	CYC	C4C-NC	-2.27	1.32	1.37
33	Z4	201	CYC	C1B-C2B	2.27	1.49	1.45
36	bD	615	CLA	CMD-C2D	-2.27	1.46	1.50
33	ZK	201	CYC	C4B-NB	-2.27	1.33	1.38
33	VB	201	CYC	C4A-C3A	2.27	1.50	1.45
33	QB	201	CYC	C1B-NB	-2.27	1.34	1.37
33	Q4	201	CYC	C1B-C2B	2.27	1.49	1.45
33	B4	1004	CYC	C1D-CHD	2.27	1.49	1.41
36	BD	608	CLA	CMC-C2C	-2.27	1.46	1.50
36	cE	507	CLA	CMC-C2C	-2.27	1.46	1.50
36	bE	605	CLA	C3B-C2B	-2.27	1.37	1.40
36	b1	605	CLA	CMC-C2C	-2.27	1.46	1.50
33	V4	201	CYC	C4A-C3A	2.27	1.50	1.45
33	b5	201	CYC	C4C-NC	-2.27	1.32	1.37
40	B1	623	LMT	C3'-C2'	2.26	1.58	1.52
36	BE	613	CLA	MG-ND	-2.26	2.01	2.05
33	ZF	201	CYC	C4B-NB	-2.26	1.33	1.38
33	mF	201	CYC	C1D-CHD	2.26	1.49	1.41
36	iD	101	CLA	C3B-C2B	-2.26	1.37	1.40
36	c1	505	CLA	MG-ND	-2.26	2.01	2.05
36	cD	512	CLA	MG-ND	-2.26	2.01	2.05
40	BE	622	LMT	O2B-C2B	-2.26	1.37	1.43
36	CE	507	CLA	MG-ND	-2.26	2.01	2.05
36	B1	608	CLA	CMC-C2C	-2.26	1.46	1.50
36	CD	505	CLA	MG-ND	-2.26	2.01	2.05
36	BE	614	CLA	CMD-C2D	-2.26	1.46	1.50
33	CB	1001	CYC	C1B-NB	-2.26	1.34	1.37
33	jI	201	CYC	C4C-NC	-2.26	1.32	1.37
45	DD	403	PHO	CHA-CBD	-2.26	1.49	1.52
36	CE	504	CLA	CMD-C2D	-2.26	1.46	1.50
36	cE	506	CLA	CMC-C2C	-2.26	1.46	1.50
36	BE	608	CLA	CMC-C2C	-2.26	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	iD	101	CLA	MG-ND	-2.26	2.01	2.05
36	bE	605	CLA	CMC-C2C	-2.26	1.46	1.50
33	C4	1003	CYC	C4B-NB	-2.26	1.33	1.38
36	CE	505	CLA	MG-ND	-2.26	2.01	2.05
36	c1	512	CLA	MG-ND	-2.26	2.01	2.05
33	LF	201	CYC	C1B-NB	-2.26	1.34	1.37
36	b1	615	CLA	C3B-CAB	-2.26	1.43	1.47
36	bD	615	CLA	C3B-CAB	-2.26	1.43	1.47
36	bD	605	CLA	CMC-C2C	-2.25	1.46	1.50
33	GL	201	CYC	C4B-NB	-2.25	1.33	1.38
40	BD	623	LMT	C3'-C2'	2.25	1.58	1.52
36	C1	505	CLA	MG-ND	-2.25	2.01	2.05
36	B1	605	CLA	C3B-C2B	-2.25	1.37	1.40
36	BE	614	CLA	CMC-C2C	-2.25	1.46	1.50
33	bC	201	CYC	C4C-NC	-2.25	1.32	1.37
33	yB	201	CYC	OB-C4B	2.25	1.27	1.23
36	DE	406	CLA	CMC-C2C	-2.25	1.46	1.50
36	bD	614	CLA	C3B-CAB	-2.25	1.43	1.47
36	aD	406	CLA	CMC-C2C	-2.25	1.46	1.50
33	nK	201	CYC	C1B-NB	-2.25	1.34	1.37
33	BB	1004	CYC	C1D-CHD	2.25	1.49	1.41
33	B4	1004	CYC	C1B-NB	-2.25	1.34	1.37
36	BD	614	CLA	CMC-C2C	-2.25	1.46	1.50
36	HD	102	CLA	C3B-C2B	-2.25	1.37	1.40
33	CB	1003	CYC	C4B-NB	-2.25	1.33	1.38
36	b1	604	CLA	CMD-C2D	-2.25	1.46	1.50
38	h1	103	SQD	O6-C1	2.25	1.44	1.40
33	Q4	201	CYC	C4A-C3A	2.25	1.50	1.45
36	BD	614	CLA	C3B-CAB	-2.25	1.43	1.47
33	O4	201	CYC	C1D-CHD	2.25	1.49	1.41
36	cD	513	CLA	CMC-C2C	-2.25	1.46	1.50
36	BE	604	CLA	C3B-CAB	-2.25	1.43	1.47
36	C1	504	CLA	CMD-C2D	-2.25	1.46	1.50
36	aE	406	CLA	CMC-C2C	-2.25	1.46	1.50
33	OB	201	CYC	C1D-CHD	2.25	1.49	1.41
36	b1	610	CLA	C3B-CAB	-2.25	1.43	1.47
36	bD	607	CLA	C3B-C2B	-2.25	1.37	1.40
33	PG	201	CYC	C1A-NA	-2.25	1.33	1.38
33	PB	201	CYC	C4C-NC	-2.25	1.32	1.37
33	GG	201	CYC	C4B-NB	-2.25	1.33	1.38
33	VG	201	CYC	C1D-CHD	2.25	1.49	1.41
33	WL	201	CYC	C4B-NB	-2.24	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	bE	610	CLA	C3B-CAB	-2.24	1.43	1.47
38	hE	103	SQD	O6-C1	2.24	1.44	1.40
36	c1	513	CLA	CMC-C2C	-2.24	1.46	1.50
36	bE	604	CLA	CMC-C2C	-2.24	1.46	1.50
33	PL	201	CYC	C1A-NA	-2.24	1.33	1.38
36	b1	614	CLA	C3B-CAB	-2.24	1.43	1.47
36	bE	610	CLA	CMD-C2D	-2.24	1.46	1.50
33	nF	201	CYC	C1B-NB	-2.24	1.34	1.37
36	xD	101	CLA	CMD-C2D	-2.24	1.46	1.50
33	VL	201	CYC	C1D-CHD	2.24	1.49	1.41
33	JG	201	CYC	C4B-NB	-2.24	1.33	1.38
36	CD	504	CLA	CMD-C2D	-2.24	1.46	1.50
36	C1	514	CLA	CMD-C2D	-2.24	1.46	1.50
36	XD	101	CLA	CMD-C2D	-2.24	1.46	1.50
36	B1	614	CLA	CMC-C2C	-2.24	1.46	1.50
33	l7	201	CYC	C4C-NC	-2.24	1.32	1.37
45	D1	402	PHO	C14-C13	-2.24	1.45	1.52
36	iE	101	CLA	C3B-C2B	-2.24	1.37	1.40
38	hD	103	SQD	O6-C1	2.23	1.44	1.40
33	Q4	201	CYC	C1D-CHD	2.23	1.49	1.41
36	C1	507	CLA	MG-ND	-2.23	2.01	2.05
36	x1	101	CLA	CMD-C2D	-2.23	1.46	1.50
36	cE	513	CLA	MG-ND	-2.23	2.01	2.05
36	a1	407	CLA	CMC-C2C	-2.23	1.46	1.50
40	BE	623	LMT	C3'-C2'	2.23	1.58	1.52
36	c1	502	CLA	CMC-C2C	-2.23	1.46	1.50
36	cE	513	CLA	CMC-C2C	-2.23	1.46	1.50
36	CD	507	CLA	MG-ND	-2.23	2.01	2.05
36	BD	605	CLA	C3B-C2B	-2.23	1.37	1.40
36	BE	605	CLA	C3B-C2B	-2.23	1.37	1.40
36	bE	615	CLA	CMC-C2C	-2.23	1.46	1.50
33	b4	101	CYC	C4A-C3A	2.23	1.50	1.45
36	bE	607	CLA	C3B-C2B	-2.23	1.37	1.40
36	BE	607	CLA	CMC-C2C	-2.23	1.46	1.50
36	X1	101	CLA	CMD-C2D	-2.23	1.46	1.50
36	cD	503	CLA	CMC-C2C	-2.23	1.46	1.50
33	P4	201	CYC	C4C-NC	-2.23	1.32	1.37
36	BD	613	CLA	CMC-C2C	-2.23	1.46	1.50
33	B4	1004	CYC	C4C-NC	-2.23	1.32	1.37
38	h1	103	SQD	C46-C45	2.23	1.57	1.50
33	B4	1001	CYC	C4B-NB	-2.23	1.33	1.38
36	BE	601	CLA	CMC-C2C	-2.23	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	b1	604	CLA	CMC-C2C	-2.23	1.46	1.50
45	d1	402	PHO	C12-C13	-2.23	1.40	1.52
36	BD	614	CLA	C3B-C2B	-2.23	1.37	1.40
36	BE	614	CLA	C3B-CAB	-2.23	1.43	1.47
36	cD	514	CLA	CMD-C2D	-2.23	1.46	1.50
36	B1	603	CLA	CMC-C2C	-2.23	1.46	1.50
36	bD	615	CLA	CMC-C2C	-2.23	1.46	1.50
33	Q4	201	CYC	OB-C4B	2.23	1.27	1.23
36	hD	102	CLA	C3B-CAB	-2.22	1.43	1.47
36	hE	102	CLA	C3B-CAB	-2.22	1.43	1.47
36	cD	513	CLA	MG-ND	-2.22	2.01	2.05
36	XE	101	CLA	CMD-C2D	-2.22	1.46	1.50
36	CE	506	CLA	CAC-C3C	-2.22	1.45	1.51
36	B1	613	CLA	CMC-C2C	-2.22	1.46	1.50
36	bE	614	CLA	C3B-CAB	-2.22	1.43	1.47
36	BE	613	CLA	CMC-C2C	-2.22	1.46	1.50
36	B1	601	CLA	CMC-C2C	-2.22	1.46	1.50
33	T4	201	CYC	C4C-NC	-2.22	1.32	1.37
33	l5	201	CYC	C4C-NC	-2.22	1.32	1.37
36	xE	101	CLA	CMD-C2D	-2.22	1.46	1.50
33	lJ	201	CYC	C4C-NC	-2.22	1.32	1.37
36	I1	101	CLA	C3B-CAB	-2.22	1.43	1.47
33	QB	201	CYC	C1D-CHD	2.22	1.49	1.41
33	lA	201	CYC	C4C-NC	-2.22	1.32	1.37
36	bD	604	CLA	CMC-C2C	-2.22	1.46	1.50
36	bD	610	CLA	C3B-CAB	-2.22	1.43	1.47
33	fF	201	CYC	C1B-C2B	2.22	1.49	1.45
38	hD	103	SQD	C46-C45	2.22	1.57	1.50
36	CD	506	CLA	CMD-C2D	-2.22	1.46	1.50
36	cE	514	CLA	CMD-C2D	-2.22	1.46	1.50
36	B1	614	CLA	C3B-CAB	-2.22	1.43	1.47
33	bB	101	CYC	C4A-C3A	2.22	1.50	1.45
33	lH	201	CYC	C4C-NC	-2.22	1.32	1.37
36	c1	505	CLA	CAC-C3C	-2.22	1.45	1.51
36	h1	102	CLA	C3B-CAB	-2.22	1.43	1.47
36	hE	101	CLA	C3B-C2B	-2.22	1.37	1.40
33	TB	201	CYC	C4C-NC	-2.22	1.32	1.37
33	cF	201	CYC	OB-C4B	2.22	1.27	1.23
40	BE	622	LMT	O3B-C3B	-2.22	1.37	1.43
36	H1	102	CLA	C3B-C2B	-2.22	1.37	1.40
33	WG	201	CYC	C4B-NB	-2.22	1.33	1.38
33	XK	201	CYC	C4B-NB	-2.22	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	c1	513	CLA	MG-ND	-2.22	2.01	2.05
36	CD	509	CLA	CMC-C2C	-2.22	1.46	1.50
40	bE	601	LMT	C3'-C4'	2.22	1.58	1.52
36	CE	510	CLA	C4B-CHC	-2.21	1.34	1.41
36	B1	609	CLA	MG-ND	-2.21	2.01	2.05
36	bD	603	CLA	CMC-C2C	-2.21	1.46	1.50
33	l8	201	CYC	C4C-NC	-2.21	1.32	1.37
33	cK	201	CYC	OB-C4B	2.21	1.27	1.23
40	bD	601	LMT	C3'-C4'	2.21	1.58	1.52
36	BD	607	CLA	CMC-C2C	-2.21	1.46	1.50
36	bE	615	CLA	C3B-CAB	-2.21	1.43	1.47
36	BE	602	CLA	CMC-C2C	-2.21	1.46	1.50
36	B1	608	CLA	CMD-C2D	-2.21	1.46	1.50
36	c1	514	CLA	CMD-C2D	-2.21	1.46	1.50
33	l6	201	CYC	C4C-NC	-2.21	1.32	1.37
33	7G	201	CYC	C4D-CHA	2.21	1.49	1.41
33	9F	201	CYC	OB-C4B	2.21	1.27	1.23
40	j1	101	LMT	O4'-C4B	-2.21	1.37	1.43
33	O4	201	CYC	C4C-NC	-2.21	1.32	1.37
33	l9	201	CYC	C4C-NC	-2.21	1.32	1.37
33	9K	201	CYC	OB-C4B	2.21	1.27	1.23
33	6L	201	CYC	C1B-C2B	2.21	1.49	1.45
33	QB	201	CYC	OB-C4B	2.21	1.27	1.23
36	BE	606	CLA	C3B-CAB	-2.21	1.43	1.47
33	B4	1002	CYC	C4A-C3A	2.21	1.50	1.45
40	BD	622	LMT	O3B-C3B	-2.21	1.37	1.43
36	bE	607	CLA	CAC-C3C	-2.21	1.45	1.51
36	cE	506	CLA	CAC-C3C	-2.21	1.45	1.51
38	hE	103	SQD	C46-C45	2.21	1.57	1.50
33	JL	201	CYC	C4B-NB	-2.21	1.33	1.38
33	fK	201	CYC	C1B-C2B	2.21	1.49	1.45
36	CD	510	CLA	C4B-CHC	-2.21	1.34	1.41
36	CE	506	CLA	CMD-C2D	-2.21	1.46	1.50
36	CD	514	CLA	CMD-C2D	-2.21	1.46	1.50
36	a1	406	CLA	C3B-CAB	-2.21	1.43	1.47
36	B1	602	CLA	CMC-C2C	-2.21	1.46	1.50
36	dD	403	CLA	CMD-C2D	-2.21	1.46	1.50
33	BB	1004	CYC	C4C-NC	-2.20	1.32	1.37
36	CD	506	CLA	CAC-C3C	-2.20	1.45	1.51
36	ID	101	CLA	C3B-CAB	-2.20	1.43	1.47
36	cE	503	CLA	CMC-C2C	-2.20	1.46	1.50
33	ZB	201	CYC	OB-C4B	2.20	1.27	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	BB	1001	CYC	C4B-NB	-2.20	1.33	1.38
36	b1	615	CLA	CMC-C2C	-2.20	1.46	1.50
33	Z4	201	CYC	OB-C4B	2.20	1.27	1.23
36	b1	607	CLA	CAC-C3C	-2.20	1.45	1.51
33	7L	201	CYC	C4D-CHA	2.20	1.49	1.41
33	nF	201	CYC	C2C-C1C	-2.20	1.50	1.52
36	CE	509	CLA	CMC-C2C	-2.20	1.46	1.50
36	B1	607	CLA	CMC-C2C	-2.20	1.46	1.50
33	o4	201	CYC	C1D-CHD	2.20	1.49	1.41
36	BD	602	CLA	CMC-C2C	-2.20	1.46	1.50
36	CD	513	CLA	CMD-C2D	-2.20	1.46	1.50
36	cE	508	CLA	CMC-C2C	-2.20	1.46	1.50
36	h1	102	CLA	MG-ND	-2.20	2.01	2.05
45	DE	403	PHO	C7-C8	2.20	1.64	1.52
36	cD	513	CLA	CMD-C2D	-2.20	1.46	1.50
36	BD	608	CLA	CMD-C2D	-2.20	1.46	1.50
36	b1	603	CLA	CMC-C2C	-2.20	1.46	1.50
33	XF	201	CYC	C4B-NB	-2.20	1.33	1.38
36	C1	509	CLA	CMC-C2C	-2.20	1.46	1.50
36	CE	510	CLA	C1D-ND	2.20	1.40	1.37
36	cE	513	CLA	CMD-C2D	-2.20	1.46	1.50
33	l2	201	CYC	C4C-NC	-2.20	1.32	1.37
36	BE	614	CLA	C3B-C2B	-2.20	1.37	1.40
36	cD	506	CLA	CAC-C3C	-2.20	1.45	1.51
36	C1	506	CLA	CAC-C3C	-2.20	1.45	1.51
36	C1	515	CLA	CMC-C2C	-2.20	1.46	1.50
33	B4	1001	CYC	C1D-CHD	2.20	1.49	1.41
36	b1	607	CLA	C3B-C2B	-2.20	1.37	1.40
36	hD	102	CLA	C3B-C2B	-2.20	1.37	1.40
33	lI	201	CYC	C4C-NC	-2.20	1.32	1.37
36	hD	101	CLA	C3B-C2B	-2.20	1.37	1.40
38	LE	101	SQD	O6-C1	2.20	1.43	1.40
36	C1	510	CLA	C4B-CHC	-2.20	1.34	1.41
36	CE	506	CLA	MG-ND	-2.20	2.01	2.05
36	BD	605	CLA	CAC-C3C	-2.20	1.45	1.51
36	B1	605	CLA	CAC-C3C	-2.20	1.45	1.51
36	BD	606	CLA	C3B-CAB	-2.20	1.43	1.47
36	d1	405	CLA	C3B-CAB	-2.20	1.43	1.47
36	CE	508	CLA	C3D-C4D	2.20	1.49	1.44
36	dE	403	CLA	CMD-C2D	-2.19	1.46	1.50
36	bE	608	CLA	C3B-CAB	-2.19	1.43	1.47
36	BE	605	CLA	CAC-C3C	-2.19	1.45	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	CE	513	CLA	CMD-C2D	-2.19	1.46	1.50
36	bD	607	CLA	CAC-C3C	-2.19	1.45	1.51
36	BD	603	CLA	CMC-C2C	-2.19	1.46	1.50
36	aE	405	CLA	C3B-CAB	-2.19	1.43	1.47
33	oB	201	CYC	C1D-CHD	2.19	1.49	1.41
40	a1	401	LMT	O3B-C3B	-2.19	1.37	1.43
36	CE	515	CLA	MG-ND	-2.19	2.01	2.05
36	D1	404	CLA	C3B-CAB	-2.19	1.43	1.47
36	CE	515	CLA	CMC-C2C	-2.19	1.46	1.50
33	l3	201	CYC	C4C-NC	-2.19	1.32	1.37
45	dE	402	PHO	CAA-C2A	-2.19	1.49	1.54
45	DE	403	PHO	CHA-CBD	-2.19	1.49	1.52
36	B1	606	CLA	C3B-CAB	-2.19	1.43	1.47
36	HE	102	CLA	MG-ND	-2.19	2.01	2.05
45	DE	401	PHO	C10-C8	-2.19	1.41	1.52
36	cD	506	CLA	CMD-C2D	-2.19	1.46	1.50
38	LD	101	SQD	O6-C1	2.19	1.43	1.40
36	C1	507	CLA	C3B-C2B	-2.19	1.37	1.40
36	HD	102	CLA	MG-ND	-2.19	2.01	2.05
36	hE	102	CLA	MG-ND	-2.19	2.01	2.05
36	dD	403	CLA	CMC-C2C	-2.19	1.46	1.50
33	BB	1002	CYC	C4A-C3A	2.19	1.50	1.45
36	BD	601	CLA	CMC-C2C	-2.19	1.46	1.50
36	C1	506	CLA	CMD-C2D	-2.19	1.46	1.50
36	BD	609	CLA	MG-ND	-2.19	2.01	2.05
36	BE	609	CLA	MG-ND	-2.19	2.01	2.05
36	d1	403	CLA	CMD-C2D	-2.19	1.46	1.50
36	BE	603	CLA	CMC-C2C	-2.19	1.46	1.50
36	bD	609	CLA	CMC-C2C	-2.19	1.46	1.50
33	6G	201	CYC	C1B-C2B	2.19	1.49	1.45
36	c1	513	CLA	CMD-C2D	-2.19	1.46	1.50
36	bE	614	CLA	CMC-C2C	-2.19	1.46	1.50
36	d1	403	CLA	CMC-C2C	-2.19	1.46	1.50
36	CD	507	CLA	C3B-C2B	-2.19	1.37	1.40
33	BB	1001	CYC	C1D-CHD	2.19	1.49	1.41
36	BE	608	CLA	CMD-C2D	-2.19	1.46	1.50
36	cE	506	CLA	CMD-C2D	-2.19	1.46	1.50
33	NF	101	CYC	C1B-NB	-2.18	1.34	1.37
33	NK	101	CYC	C1B-NB	-2.18	1.34	1.37
36	DD	405	CLA	C3B-CAB	-2.18	1.43	1.47
36	D1	404	CLA	MG-ND	-2.18	2.01	2.05
36	CD	508	CLA	C3D-C4D	2.18	1.49	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	C4	1001	CYC	C4C-NC	-2.18	1.32	1.37
36	CD	506	CLA	MG-ND	-2.18	2.01	2.05
36	C1	506	CLA	MG-ND	-2.18	2.01	2.05
36	c1	505	CLA	CMD-C2D	-2.18	1.46	1.50
36	C1	508	CLA	C3D-C4D	2.18	1.49	1.44
36	dE	403	CLA	CMC-C2C	-2.18	1.46	1.50
38	L1	101	SQD	O6-C1	2.18	1.43	1.40
33	IC	201	CYC	C4C-NC	-2.18	1.32	1.37
40	AD	412	LMT	O3B-C3B	-2.18	1.37	1.43
36	c1	508	CLA	CMC-C2C	-2.18	1.46	1.50
36	bD	608	CLA	C3B-CAB	-2.18	1.43	1.47
36	CD	515	CLA	CMC-C2C	-2.18	1.46	1.50
33	CB	1001	CYC	C4C-NC	-2.18	1.32	1.37
33	OB	201	CYC	C4C-NC	-2.18	1.32	1.37
36	IE	101	CLA	C3B-CAB	-2.18	1.43	1.47
36	CD	515	CLA	MG-ND	-2.18	2.01	2.05
36	bE	603	CLA	CMC-C2C	-2.18	1.46	1.50
33	WG	201	CYC	C1D-CHD	2.18	1.49	1.41
36	BD	609	CLA	C3B-CAB	-2.18	1.43	1.47
40	b1	601	LMT	C3'-C4'	2.18	1.58	1.52
36	CE	515	CLA	CMD-C2D	-2.18	1.46	1.50
36	cD	508	CLA	CMC-C2C	-2.18	1.46	1.50
36	bD	614	CLA	CMC-C2C	-2.18	1.46	1.50
36	cE	507	CLA	C3B-CAB	-2.18	1.43	1.47
33	PB	201	CYC	C1A-NA	-2.18	1.33	1.38
36	b1	609	CLA	CMC-C2C	-2.18	1.46	1.50
40	bE	601	LMT	O4'-C4B	-2.18	1.37	1.43
36	BD	601	CLA	C3B-CAB	-2.18	1.43	1.47
36	DE	405	CLA	C3B-CAB	-2.18	1.43	1.47
36	h1	101	CLA	C3B-C2B	-2.17	1.37	1.40
36	C1	515	CLA	MG-ND	-2.17	2.01	2.05
36	BE	601	CLA	C3B-CAB	-2.17	1.43	1.47
36	h1	102	CLA	C3B-C2B	-2.17	1.37	1.40
36	c1	508	CLA	C3B-CAB	-2.17	1.43	1.47
36	C1	504	CLA	C4B-CHC	-2.17	1.35	1.41
36	aD	405	CLA	C3B-CAB	-2.17	1.43	1.47
40	A1	413	LMT	O3B-C3B	-2.17	1.37	1.43
36	CE	514	CLA	CMD-C2D	-2.17	1.46	1.50
36	HD	101	CLA	C3B-C2B	-2.17	1.37	1.40
36	dD	405	CLA	C3B-CAB	-2.17	1.43	1.47
36	BD	604	CLA	C4B-CHC	-2.17	1.35	1.41
36	CD	515	CLA	CMD-C2D	-2.17	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	hD	102	CLA	MG-ND	-2.17	2.01	2.05
40	b1	601	LMT	O4'-C4B	-2.17	1.37	1.43
33	nK	201	CYC	C4B-NB	-2.17	1.33	1.38
36	C1	513	CLA	MG-ND	-2.17	2.01	2.05
33	C4	1003	CYC	C4A-C3A	2.17	1.50	1.45
40	jD	101	LMT	O4'-C4B	-2.17	1.37	1.43
36	bE	604	CLA	MG-ND	-2.17	2.01	2.05
38	L1	102	SQD	O6-C1	2.17	1.43	1.40
33	CB	1003	CYC	C4A-C3A	2.17	1.50	1.45
36	H1	102	CLA	MG-ND	-2.17	2.01	2.05
33	OB	201	CYC	C1B-C2B	2.17	1.49	1.45
36	c1	509	CLA	C3B-CAB	-2.17	1.43	1.47
38	LE	102	SQD	O6-C1	2.17	1.43	1.40
33	u4	201	CYC	C4B-NB	-2.17	1.33	1.38
33	nK	201	CYC	C2C-C1C	-2.17	1.50	1.52
33	P4	201	CYC	C1A-NA	-2.17	1.33	1.38
36	xE	101	CLA	CMC-C2C	-2.17	1.46	1.50
33	h8	201	CYC	C4B-NB	-2.17	1.33	1.38
36	CE	504	CLA	C4B-CHC	-2.17	1.35	1.41
36	XD	101	CLA	C3B-C2B	-2.16	1.37	1.40
33	WL	201	CYC	C1D-CHD	2.16	1.49	1.41
36	B1	601	CLA	C3B-CAB	-2.16	1.43	1.47
40	AE	412	LMT	O2'-C2'	-2.16	1.37	1.43
36	C1	515	CLA	CMD-C2D	-2.16	1.46	1.50
33	TB	201	CYC	C4A-C3A	2.16	1.50	1.45
38	LD	102	SQD	O6-C1	2.16	1.43	1.40
36	hE	101	CLA	CMC-C2C	-2.16	1.46	1.50
33	h7	201	CYC	C4B-NB	-2.16	1.33	1.38
33	cK	201	CYC	C4A-C3A	2.16	1.50	1.45
36	IE	101	CLA	CMC-C2C	-2.16	1.46	1.50
36	HE	101	CLA	C3B-C2B	-2.16	1.37	1.40
36	hE	102	CLA	C3B-C2B	-2.16	1.37	1.40
36	bD	610	CLA	MG-ND	-2.16	2.01	2.05
36	CD	504	CLA	C4B-CHC	-2.16	1.35	1.41
40	AE	412	LMT	O3B-C3B	-2.16	1.37	1.43
36	X1	101	CLA	C3B-C2B	-2.16	1.37	1.40
36	C1	508	CLA	CMC-C2C	-2.16	1.46	1.50
40	bD	601	LMT	O4'-C4B	-2.16	1.37	1.43
33	z4	201	CYC	C1B-C2B	2.16	1.49	1.45
36	cD	507	CLA	C3B-CAB	-2.16	1.43	1.47
36	DE	405	CLA	MG-ND	-2.16	2.01	2.05
36	B1	609	CLA	C3B-CAB	-2.16	1.43	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	DD	405	CLA	MG-ND	-2.16	2.01	2.05
33	hA	201	CYC	C4B-NB	-2.16	1.33	1.38
36	B1	612	CLA	MG-ND	-2.16	2.01	2.05
36	B1	604	CLA	C4B-CHC	-2.16	1.35	1.41
36	HD	101	CLA	CMC-C2C	-2.16	1.46	1.50
36	c1	507	CLA	C3B-CAB	-2.16	1.43	1.47
36	BE	612	CLA	C3B-CAB	-2.16	1.43	1.47
36	bE	609	CLA	CMC-C2C	-2.16	1.46	1.50
33	r4	201	CYC	OB-C4B	2.16	1.27	1.23
33	B4	1001	CYC	OB-C4B	2.16	1.27	1.23
36	b1	606	CLA	C4B-CHC	-2.16	1.35	1.41
40	jE	101	LMT	O4'-C4B	-2.16	1.37	1.43
36	CE	513	CLA	MG-ND	-2.15	2.01	2.05
33	h5	201	CYC	C4B-NB	-2.15	1.33	1.38
33	cF	201	CYC	C4A-C3A	2.15	1.50	1.45
36	CE	503	CLA	MG-ND	-2.15	2.01	2.05
36	b1	613	CLA	MG-ND	-2.15	2.01	2.05
36	BE	609	CLA	C3B-CAB	-2.15	1.43	1.47
36	cE	513	CLA	C3B-CAB	-2.15	1.43	1.47
36	BE	604	CLA	C4B-CHC	-2.15	1.35	1.41
33	zB	201	CYC	C1B-C2B	2.15	1.49	1.45
36	bD	613	CLA	MG-ND	-2.15	2.01	2.05
33	nF	201	CYC	C4B-NB	-2.15	1.33	1.38
36	b1	608	CLA	C3B-CAB	-2.15	1.43	1.47
36	bD	603	CLA	C3B-CAB	-2.15	1.43	1.47
36	C1	513	CLA	CMD-C2D	-2.15	1.46	1.50
45	D1	402	PHO	CHA-CBD	-2.15	1.49	1.52
33	TG	201	CYC	OB-C4B	2.15	1.27	1.23
33	TL	201	CYC	OB-C4B	2.15	1.27	1.23
33	5L	201	CYC	OB-C4B	2.15	1.27	1.23
33	hH	201	CYC	C4B-NB	-2.15	1.33	1.38
36	CD	508	CLA	CMC-C2C	-2.15	1.46	1.50
36	BE	605	CLA	CMC-C2C	-2.15	1.46	1.50
36	b1	604	CLA	MG-ND	-2.15	2.01	2.05
36	BD	612	CLA	C3B-CAB	-2.15	1.43	1.47
33	C4	1002	CYC	C1B-NB	-2.15	1.34	1.37
36	CD	513	CLA	MG-ND	-2.15	2.01	2.05
33	uB	201	CYC	C4B-NB	-2.15	1.33	1.38
36	b1	603	CLA	MG-ND	-2.15	2.01	2.05
36	b1	614	CLA	CMC-C2C	-2.15	1.46	1.50
33	qB	201	CYC	C1B-NB	-2.15	1.34	1.37
36	c1	512	CLA	CMC-C2C	-2.15	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	c1	505	CLA	C3B-C2B	-2.15	1.37	1.40
33	hI	201	CYC	C4B-NB	-2.15	1.33	1.38
40	AD	412	LMT	O2'-C2'	-2.15	1.37	1.43
36	hD	102	CLA	CMD-C2D	-2.15	1.46	1.50
33	T4	201	CYC	C4A-C3A	2.15	1.50	1.45
36	CD	506	CLA	C4B-CHC	-2.15	1.35	1.41
36	bD	606	CLA	C4B-CHC	-2.15	1.35	1.41
36	b1	604	CLA	CAA-C2A	-2.15	1.50	1.54
33	z4	201	CYC	C1B-NB	-2.15	1.34	1.37
36	bE	603	CLA	C3B-CAB	-2.15	1.43	1.47
33	B4	1004	CYC	C4B-NB	-2.15	1.33	1.38
33	3F	102	CYC	C1D-CHD	2.15	1.49	1.41
36	iE	101	CLA	CMC-C2C	-2.14	1.46	1.50
33	CB	1002	CYC	C1B-NB	-2.14	1.34	1.37
36	CE	507	CLA	C3B-C2B	-2.14	1.37	1.40
36	CE	506	CLA	C4B-CHC	-2.14	1.35	1.41
36	H1	101	CLA	C3B-C2B	-2.14	1.37	1.40
36	bE	606	CLA	CMC-C2C	-2.14	1.46	1.50
36	B1	602	CLA	MG-ND	-2.14	2.01	2.05
33	h2	201	CYC	C4B-NB	-2.14	1.33	1.38
36	C1	503	CLA	MG-ND	-2.14	2.01	2.05
36	b1	613	CLA	C4B-CHC	-2.14	1.35	1.41
33	6L	201	CYC	C1D-CHD	2.14	1.49	1.41
36	H1	101	CLA	CMC-C2C	-2.14	1.46	1.50
33	hJ	201	CYC	C4B-NB	-2.14	1.33	1.38
36	cD	508	CLA	C3B-CAB	-2.14	1.43	1.47
40	A1	413	LMT	O2'-C2'	-2.14	1.37	1.43
36	CE	514	CLA	C3B-C2B	-2.14	1.37	1.40
33	3K	102	CYC	C1D-CHD	2.14	1.49	1.41
36	B1	612	CLA	C4B-CHC	-2.14	1.35	1.41
33	NK	101	CYC	C4A-C3A	2.14	1.50	1.45
36	cD	512	CLA	CMC-C2C	-2.14	1.46	1.50
36	CD	503	CLA	MG-ND	-2.14	2.01	2.05
36	XE	101	CLA	CMC-C2C	-2.14	1.46	1.50
36	BD	605	CLA	CMC-C2C	-2.14	1.46	1.50
36	XE	101	CLA	C3B-C2B	-2.14	1.37	1.40
33	6G	201	CYC	C1D-CHD	2.14	1.49	1.41
36	bE	604	CLA	CAA-C2A	-2.14	1.50	1.54
36	c1	506	CLA	CMC-C2C	-2.14	1.46	1.50
36	BE	604	CLA	CMC-C2C	-2.14	1.46	1.50
36	HE	102	CLA	C3B-CAB	-2.14	1.43	1.47
36	bD	603	CLA	MG-ND	-2.14	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	fK	201	CYC	C1A-NA	-2.14	1.34	1.38
36	bD	604	CLA	CAA-C2A	-2.14	1.50	1.54
36	cE	509	CLA	C3B-CAB	-2.13	1.43	1.47
33	oB	201	CYC	C1B-NB	-2.13	1.34	1.37
33	C4	1001	CYC	C1B-C2B	2.13	1.48	1.45
36	ID	101	CLA	CMC-C2C	-2.13	1.46	1.50
36	cD	513	CLA	C3B-CAB	-2.13	1.43	1.47
36	CD	510	CLA	C1D-ND	2.13	1.40	1.37
36	bE	613	CLA	MG-ND	-2.13	2.01	2.05
36	X1	101	CLA	CMC-C2C	-2.13	1.46	1.50
33	O4	201	CYC	C1B-C2B	2.13	1.48	1.45
33	IL	201	CYC	C1D-CHD	2.13	1.49	1.41
36	cD	506	CLA	C3B-C2B	-2.13	1.37	1.40
33	5G	201	CYC	OB-C4B	2.13	1.27	1.23
36	cD	506	CLA	C4B-CHC	-2.13	1.35	1.41
36	XD	101	CLA	CMC-C2C	-2.13	1.46	1.50
36	BD	602	CLA	MG-ND	-2.13	2.01	2.05
33	o4	201	CYC	C1B-NB	-2.13	1.34	1.37
33	JK	201	CYC	C1B-C2B	2.13	1.48	1.45
36	b1	603	CLA	C3B-CAB	-2.13	1.43	1.47
36	c1	513	CLA	C3B-CAB	-2.13	1.43	1.47
45	DE	401	PHO	C15-C13	2.13	1.63	1.52
36	iD	101	CLA	CMC-C2C	-2.13	1.46	1.50
33	JF	201	CYC	C1B-C2B	2.13	1.48	1.45
36	bD	604	CLA	MG-ND	-2.13	2.01	2.05
33	PB	201	CYC	C1B-NB	-2.13	1.34	1.37
33	6G	201	CYC	C4B-NB	-2.13	1.33	1.38
36	bE	610	CLA	MG-ND	-2.13	2.01	2.05
33	OG	201	CYC	C1D-CHD	2.13	1.49	1.41
33	C4	1002	CYC	C1D-CHD	2.13	1.49	1.41
36	CE	508	CLA	CMC-C2C	-2.13	1.46	1.50
33	OL	201	CYC	C1D-CHD	2.13	1.49	1.41
36	c1	505	CLA	C1B-NB	-2.13	1.33	1.35
36	BE	612	CLA	MG-ND	-2.13	2.01	2.05
36	B1	604	CLA	CMC-C2C	-2.13	1.46	1.50
36	b1	607	CLA	CMC-C2C	-2.13	1.46	1.50
36	bD	607	CLA	CMC-C2C	-2.13	1.46	1.50
33	QB	201	CYC	C4D-CHA	2.13	1.49	1.41
33	jK	201	CYC	C1D-CHD	2.13	1.49	1.41
36	BD	612	CLA	MG-ND	-2.13	2.01	2.05
33	9K	201	CYC	C1B-NB	-2.13	1.34	1.37
36	B1	612	CLA	C3B-CAB	-2.13	1.43	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	hD	101	CLA	CMC-C2C	-2.13	1.46	1.50
33	BB	1004	CYC	C4B-NB	-2.13	1.33	1.38
36	b1	610	CLA	MG-ND	-2.13	2.01	2.05
36	cE	506	CLA	C4B-CHC	-2.13	1.35	1.41
33	kK	201	CYC	C1D-CHD	2.12	1.49	1.41
36	bE	613	CLA	C4B-CHC	-2.12	1.35	1.41
36	cD	509	CLA	C3B-CAB	-2.12	1.43	1.47
33	P4	201	CYC	C1B-NB	-2.12	1.34	1.37
36	BE	612	CLA	C4B-CHC	-2.12	1.35	1.41
36	d1	405	CLA	MG-ND	-2.12	2.01	2.05
33	Q4	201	CYC	C4D-CHA	2.12	1.49	1.41
36	bD	613	CLA	C4B-CHC	-2.12	1.35	1.41
33	IG	201	CYC	C1D-CHD	2.12	1.49	1.41
33	CB	1001	CYC	C1B-C2B	2.12	1.48	1.45
36	C1	509	CLA	C3B-CAB	-2.12	1.43	1.47
33	WB	201	CYC	C1B-C2B	2.12	1.48	1.45
33	BB	1001	CYC	OB-C4B	2.12	1.27	1.23
33	bB	101	CYC	C1A-NA	-2.12	1.34	1.38
33	q4	201	CYC	C1B-NB	-2.12	1.34	1.37
33	NF	101	CYC	C4A-C3A	2.12	1.50	1.45
36	CE	509	CLA	C3B-CAB	-2.12	1.43	1.47
36	cD	510	CLA	C1C-NC	-2.12	1.34	1.37
33	h6	201	CYC	C4B-NB	-2.12	1.33	1.38
33	CB	1002	CYC	C1D-CHD	2.12	1.49	1.41
36	c1	505	CLA	C4B-CHC	-2.12	1.35	1.41
36	C1	510	CLA	C1D-ND	2.12	1.40	1.37
36	bD	606	CLA	CMC-C2C	-2.12	1.46	1.50
33	h9	201	CYC	C4B-NB	-2.12	1.33	1.38
33	6L	201	CYC	C4B-NB	-2.12	1.33	1.38
36	BD	612	CLA	C4B-CHC	-2.12	1.35	1.41
36	CE	505	CLA	CMC-C2C	-2.12	1.46	1.50
36	x1	101	CLA	CMC-C2C	-2.12	1.46	1.50
36	CD	514	CLA	C3B-C2B	-2.12	1.37	1.40
33	rB	201	CYC	OB-C4B	2.12	1.27	1.23
33	9F	201	CYC	C1B-NB	-2.12	1.34	1.37
36	bD	613	CLA	C3B-CAB	-2.12	1.43	1.47
36	dE	405	CLA	C3B-CAB	-2.12	1.43	1.47
36	b1	611	CLA	CAC-C3C	-2.12	1.45	1.51
33	hC	201	CYC	C4B-NB	-2.12	1.33	1.38
36	CD	504	CLA	C3B-CAB	-2.12	1.43	1.47
36	C1	506	CLA	C4B-CHC	-2.12	1.35	1.41
36	HE	101	CLA	CMC-C2C	-2.12	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	NK	101	CYC	C1B-C2B	2.12	1.48	1.45
36	cE	509	CLA	C4B-CHC	-2.12	1.35	1.41
36	bE	611	CLA	CAC-C3C	-2.12	1.45	1.51
36	c1	509	CLA	C4D-ND	-2.12	1.34	1.37
36	cE	506	CLA	C3B-C2B	-2.12	1.37	1.40
36	cE	512	CLA	CMC-C2C	-2.12	1.46	1.50
36	xD	101	CLA	CMC-C2C	-2.11	1.46	1.50
33	LK	201	CYC	C1D-CHD	2.11	1.49	1.41
36	hE	102	CLA	CMD-C2D	-2.11	1.46	1.50
33	jF	201	CYC	C1D-CHD	2.11	1.49	1.41
36	bE	606	CLA	C4B-CHC	-2.11	1.35	1.41
33	LF	201	CYC	C1D-CHD	2.11	1.49	1.41
36	cE	508	CLA	C3B-CAB	-2.11	1.43	1.47
36	dD	405	CLA	MG-ND	-2.11	2.01	2.05
33	b4	101	CYC	C1A-NA	-2.11	1.34	1.38
36	a1	406	CLA	CMC-C2C	-2.11	1.46	1.50
36	CD	505	CLA	CMC-C2C	-2.11	1.46	1.50
36	C1	511	CLA	C3B-CAB	-2.11	1.43	1.47
33	fF	201	CYC	C1A-NA	-2.11	1.34	1.38
36	cD	510	CLA	CMC-C2C	-2.11	1.46	1.50
36	c1	510	CLA	CMC-C2C	-2.11	1.46	1.50
36	bE	613	CLA	C3B-CAB	-2.11	1.43	1.47
33	NF	101	CYC	C1B-C2B	2.11	1.48	1.45
33	TL	201	CYC	C1D-CHD	2.11	1.49	1.41
36	bE	607	CLA	CMC-C2C	-2.11	1.46	1.50
36	CE	503	CLA	C3B-CAB	-2.11	1.43	1.47
33	XB	201	CYC	C1B-NB	-2.11	1.34	1.37
36	c1	510	CLA	C1C-NC	-2.11	1.34	1.37
36	c1	509	CLA	C4B-CHC	-2.11	1.35	1.41
36	BE	602	CLA	MG-ND	-2.11	2.01	2.05
33	kF	201	CYC	C1B-NB	-2.11	1.34	1.37
36	CD	509	CLA	C3B-CAB	-2.11	1.43	1.47
33	j2	201	CYC	C4B-NB	-2.11	1.33	1.38
33	zB	201	CYC	C1B-NB	-2.11	1.34	1.37
36	BD	602	CLA	CAA-C2A	-2.11	1.50	1.54
36	c1	512	CLA	C3B-CAB	-2.11	1.43	1.47
36	cE	510	CLA	C1C-NC	-2.11	1.34	1.37
36	aE	405	CLA	CMC-C2C	-2.11	1.46	1.50
36	H1	102	CLA	C3B-CAB	-2.11	1.43	1.47
33	f2	201	CYC	C4B-NB	-2.11	1.33	1.38
33	h3	201	CYC	C4B-NB	-2.11	1.33	1.38
33	jF	201	CYC	C4A-C3A	2.11	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	b1	613	CLA	C3B-CAB	-2.11	1.43	1.47
33	mK	201	CYC	C4B-NB	-2.11	1.33	1.38
36	CD	503	CLA	C3B-CAB	-2.10	1.43	1.47
36	I1	101	CLA	CMC-C2C	-2.10	1.46	1.50
33	QB	201	CYC	C4B-NB	-2.10	1.33	1.38
33	y4	201	CYC	C4B-NB	-2.10	1.33	1.38
36	B1	605	CLA	CMC-C2C	-2.10	1.46	1.50
33	TG	201	CYC	C1D-CHD	2.10	1.49	1.41
36	cD	509	CLA	C4B-CHC	-2.10	1.35	1.41
36	B1	605	CLA	C4B-CHC	-2.10	1.35	1.41
33	f5	201	CYC	C4B-NB	-2.10	1.33	1.38
33	Q4	201	CYC	C4B-NB	-2.10	1.33	1.38
36	h1	101	CLA	CMC-C2C	-2.10	1.46	1.50
33	kF	201	CYC	C1D-CHD	2.10	1.49	1.41
36	BD	604	CLA	CMC-C2C	-2.10	1.46	1.50
36	C1	514	CLA	C3B-C2B	-2.10	1.37	1.40
36	dE	406	CLA	C3B-CAB	-2.10	1.43	1.47
36	BE	606	CLA	MG-ND	-2.10	2.01	2.05
36	C1	504	CLA	C3B-CAB	-2.10	1.43	1.47
36	C1	503	CLA	C3B-CAB	-2.10	1.43	1.47
36	CD	509	CLA	C3B-C2B	-2.10	1.37	1.40
36	B1	602	CLA	CAA-C2A	-2.10	1.50	1.54
36	cE	512	CLA	C3B-CAB	-2.10	1.43	1.47
36	bE	603	CLA	MG-ND	-2.10	2.01	2.05
36	BE	602	CLA	C3B-C2B	-2.10	1.37	1.40
33	f7	201	CYC	C4B-NB	-2.10	1.33	1.38
40	DE	404	LMT	O1'-C1'	-2.10	1.36	1.40
36	C1	509	CLA	C3B-C2B	-2.10	1.37	1.40
33	bK	201	CYC	C1A-NA	-2.10	1.34	1.38
36	h1	102	CLA	CMD-C2D	-2.10	1.46	1.50
36	HD	102	CLA	C3B-CAB	-2.10	1.43	1.47
36	bD	611	CLA	CAC-C3C	-2.10	1.45	1.51
36	cD	506	CLA	C1B-NB	-2.09	1.33	1.35
33	X4	201	CYC	C1B-NB	-2.09	1.34	1.37
36	C1	507	CLA	CMC-C2C	-2.09	1.46	1.50
36	DE	406	CLA	C3B-CAB	-2.09	1.43	1.47
36	C1	514	CLA	C3B-CAB	-2.09	1.43	1.47
36	d1	405	CLA	C4B-CHC	-2.09	1.35	1.41
33	jJ	201	CYC	C1D-CHD	2.09	1.49	1.41
36	dE	405	CLA	C4B-CHC	-2.09	1.35	1.41
36	AE	404	CLA	C4B-CHC	-2.09	1.35	1.41
33	LK	201	CYC	C1B-C2B	2.09	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	d8	201	CYC	C1D-CHD	2.09	1.49	1.41
33	kK	201	CYC	C1B-NB	-2.09	1.34	1.37
36	BD	606	CLA	MG-ND	-2.09	2.01	2.05
33	w4	201	CYC	C1B-NB	-2.09	1.34	1.37
36	aD	405	CLA	CMC-C2C	-2.09	1.46	1.50
36	dD	405	CLA	C4B-CHC	-2.09	1.35	1.41
33	j9	201	CYC	C1D-CHD	2.09	1.49	1.41
36	HD	102	CLA	CMD-C2D	-2.09	1.46	1.50
33	wB	201	CYC	C1B-NB	-2.09	1.34	1.37
33	d6	201	CYC	C1D-CHD	2.09	1.49	1.41
36	CD	511	CLA	C3B-CAB	-2.09	1.43	1.47
36	cE	509	CLA	C4D-ND	-2.09	1.34	1.37
36	B1	606	CLA	MG-ND	-2.09	2.01	2.05
36	dE	405	CLA	MG-ND	-2.09	2.01	2.05
33	bF	201	CYC	C1A-NA	-2.09	1.34	1.38
33	d7	201	CYC	C1D-CHD	2.09	1.49	1.41
36	CE	507	CLA	CMC-C2C	-2.09	1.46	1.50
36	b1	606	CLA	CMC-C2C	-2.09	1.46	1.50
33	f9	201	CYC	C4B-NB	-2.09	1.33	1.38
33	fI	201	CYC	C4B-NB	-2.09	1.33	1.38
36	CD	507	CLA	CMC-C2C	-2.09	1.46	1.50
33	jA	201	CYC	C4B-NB	-2.09	1.33	1.38
36	CE	504	CLA	C3B-CAB	-2.09	1.43	1.47
33	fH	201	CYC	C4B-NB	-2.09	1.33	1.38
36	cD	512	CLA	C3B-CAB	-2.09	1.43	1.47
33	jC	201	CYC	C1D-CHD	2.09	1.49	1.41
33	dJ	201	CYC	C1D-CHD	2.08	1.49	1.41
33	j6	201	CYC	C1D-CHD	2.08	1.49	1.41
36	AD	404	CLA	C4B-CHC	-2.08	1.35	1.41
33	f3	201	CYC	C4B-NB	-2.08	1.33	1.38
33	v4	201	CYC	C4B-NB	-2.08	1.33	1.38
36	C1	505	CLA	CMC-C2C	-2.08	1.46	1.50
36	BD	605	CLA	C4B-CHC	-2.08	1.35	1.41
33	d9	201	CYC	C1D-CHD	2.08	1.49	1.41
36	BE	602	CLA	CAA-C2A	-2.08	1.50	1.54
33	W4	201	CYC	C1B-C2B	2.08	1.48	1.45
33	dI	201	CYC	C1D-CHD	2.08	1.49	1.41
33	j5	201	CYC	C4B-NB	-2.08	1.33	1.38
33	IG	201	CYC	OB-C4B	2.08	1.27	1.23
33	mF	201	CYC	C4B-NB	-2.08	1.33	1.38
33	PG	201	CYC	C1D-CHD	2.08	1.49	1.41
33	f8	201	CYC	C4B-NB	-2.08	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	j8	201	CYC	C4B-NB	-2.08	1.33	1.38
33	fC	201	CYC	C4B-NB	-2.08	1.33	1.38
36	BE	605	CLA	C4B-CHC	-2.08	1.35	1.41
33	XB	201	CYC	C2C-C1C	-2.08	1.50	1.52
33	9F	201	CYC	C2C-C1C	-2.08	1.50	1.52
36	B1	601	CLA	MG-ND	-2.08	2.01	2.05
36	cD	509	CLA	MG-ND	-2.08	2.01	2.05
33	j3	201	CYC	C4B-NB	-2.08	1.33	1.38
33	yB	201	CYC	C4B-NB	-2.08	1.33	1.38
36	CE	508	CLA	C1D-C2D	2.08	1.49	1.45
33	j7	201	CYC	C1D-CHD	2.08	1.49	1.41
33	jA	201	CYC	C1D-CHD	2.08	1.49	1.41
33	BB	1003	CYC	OB-C4B	2.08	1.27	1.23
33	jK	201	CYC	C4A-C3A	2.08	1.50	1.45
36	CD	514	CLA	C3B-CAB	-2.08	1.43	1.47
36	dD	406	CLA	C3B-CAB	-2.08	1.43	1.47
36	B1	602	CLA	C3B-C2B	-2.08	1.37	1.40
36	cD	513	CLA	C3B-C2B	-2.08	1.37	1.40
33	PL	201	CYC	C1D-CHD	2.08	1.49	1.41
33	d5	201	CYC	C1D-CHD	2.08	1.49	1.41
36	BD	602	CLA	C3B-C2B	-2.08	1.37	1.40
36	CE	509	CLA	C4B-CHC	-2.08	1.35	1.41
36	B1	602	CLA	C3B-CAB	-2.08	1.43	1.47
33	dC	201	CYC	C1D-CHD	2.08	1.49	1.41
36	bE	611	CLA	C3B-CAB	-2.07	1.43	1.47
33	jH	201	CYC	C1D-CHD	2.07	1.49	1.41
36	cE	510	CLA	CMC-C2C	-2.07	1.46	1.50
36	cD	509	CLA	C4D-ND	-2.07	1.34	1.37
33	dH	201	CYC	C1D-CHD	2.07	1.49	1.41
33	j9	201	CYC	C4B-NB	-2.07	1.33	1.38
36	HE	102	CLA	CMD-C2D	-2.07	1.46	1.50
36	H1	102	CLA	CMD-C2D	-2.07	1.46	1.50
33	z4	201	CYC	C4B-NB	-2.07	1.33	1.38
36	CE	503	CLA	CMC-C2C	-2.07	1.46	1.50
40	DD	404	LMT	O1'-C1'	-2.07	1.36	1.40
33	j5	201	CYC	C1D-CHD	2.07	1.49	1.41
33	5L	201	CYC	C1D-CHD	2.07	1.49	1.41
36	C1	509	CLA	C4B-CHC	-2.07	1.35	1.41
33	X4	201	CYC	C4D-CHA	2.07	1.49	1.41
36	CD	514	CLA	CMC-C2C	-2.07	1.46	1.50
33	VL	201	CYC	C4D-CHA	2.07	1.49	1.41
33	j2	201	CYC	C1D-CHD	2.07	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	BD	602	CLA	C3B-CAB	-2.07	1.43	1.47
36	BD	601	CLA	MG-ND	-2.07	2.01	2.05
33	j6	201	CYC	C4B-NB	-2.07	1.33	1.38
36	CE	511	CLA	C3B-CAB	-2.07	1.43	1.47
36	CE	512	CLA	MG-ND	-2.07	2.01	2.05
33	WB	201	CYC	C1B-NB	-2.07	1.34	1.37
36	CD	503	CLA	CMC-C2C	-2.07	1.46	1.50
36	c1	508	CLA	C4B-CHC	-2.07	1.35	1.41
36	DD	406	CLA	C3B-CAB	-2.07	1.43	1.47
36	BE	602	CLA	C3B-CAB	-2.07	1.43	1.47
33	d2	201	CYC	C1D-CHD	2.07	1.49	1.41
40	DE	413	LMT	O1'-C1'	-2.07	1.36	1.40
33	9K	201	CYC	C2C-C1C	-2.07	1.50	1.52
36	cE	509	CLA	MG-ND	-2.07	2.01	2.05
36	D1	405	CLA	C3B-CAB	-2.07	1.43	1.47
33	hI	201	CYC	C1D-CHD	2.07	1.49	1.41
36	CD	508	CLA	C1D-C2D	2.07	1.49	1.45
33	j8	201	CYC	C1D-CHD	2.07	1.49	1.41
36	CE	514	CLA	CMC-C2C	-2.07	1.46	1.50
33	jH	201	CYC	C4B-NB	-2.07	1.33	1.38
36	cE	514	CLA	MG-ND	-2.07	2.01	2.05
36	CD	513	CLA	CMC-C2C	-2.07	1.46	1.50
33	IL	201	CYC	OB-C4B	2.07	1.27	1.23
45	d1	402	PHO	CHA-CBD	-2.06	1.49	1.52
33	fJ	201	CYC	C4B-NB	-2.06	1.33	1.38
33	jI	201	CYC	C1D-CHD	2.06	1.49	1.41
33	5G	201	CYC	C1D-CHD	2.06	1.49	1.41
36	cD	514	CLA	MG-ND	-2.06	2.01	2.05
36	a1	405	CLA	C4B-CHC	-2.06	1.35	1.41
36	cD	508	CLA	C4B-CHC	-2.06	1.35	1.41
33	PB	201	CYC	C4D-CHA	2.06	1.49	1.41
33	jJ	201	CYC	C4B-NB	-2.06	1.33	1.38
33	BB	1002	CYC	C1B-C2B	2.06	1.48	1.45
40	D1	403	LMT	O1'-C1'	-2.06	1.36	1.40
36	bD	611	CLA	C3B-CAB	-2.06	1.43	1.47
33	lA	201	CYC	C1D-CHD	2.06	1.49	1.41
33	l5	201	CYC	C1D-CHD	2.06	1.49	1.41
36	C1	514	CLA	CMC-C2C	-2.06	1.46	1.50
36	c1	514	CLA	MG-ND	-2.06	2.01	2.05
33	j3	201	CYC	C1D-CHD	2.06	1.49	1.41
33	3F	102	CYC	CAA-C2A	2.06	1.56	1.51
33	P4	201	CYC	C4D-CHA	2.06	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	A1	404	CLA	C4B-CHC	-2.06	1.35	1.41
33	3K	102	CYC	CAA-C2A	2.06	1.56	1.51
45	DE	401	PHO	C12-C13	2.06	1.63	1.52
36	bE	604	CLA	C3B-CAB	-2.06	1.43	1.47
33	B4	1003	CYC	OB-C4B	2.06	1.27	1.23
36	BE	601	CLA	MG-ND	-2.06	2.01	2.05
33	NL	201	CYC	C1D-CHD	2.06	1.49	1.41
33	lC	201	CYC	C1D-CHD	2.06	1.49	1.41
33	d3	201	CYC	C1D-CHD	2.06	1.49	1.41
33	fA	201	CYC	C4B-NB	-2.06	1.33	1.38
36	B1	610	CLA	C3B-CAB	-2.06	1.43	1.47
33	CB	1003	CYC	C1B-C2B	2.06	1.48	1.45
33	jC	201	CYC	C4B-NB	-2.06	1.33	1.38
33	VG	201	CYC	C4D-CHA	2.06	1.49	1.41
33	aB	201	CYC	C1D-CHD	2.06	1.49	1.41
33	h6	201	CYC	C1D-CHD	2.06	1.49	1.41
33	h3	201	CYC	C1D-CHD	2.06	1.49	1.41
36	C1	513	CLA	CMC-C2C	-2.06	1.46	1.50
33	d5	201	CYC	C4B-NB	-2.06	1.33	1.38
33	hA	201	CYC	C1D-CHD	2.06	1.49	1.41
36	cE	513	CLA	C3B-C2B	-2.06	1.37	1.40
33	B4	1002	CYC	C1B-C2B	2.06	1.48	1.45
33	jI	201	CYC	C4B-NB	-2.06	1.33	1.38
40	D1	412	LMT	O1'-C1'	-2.06	1.36	1.40
36	b1	611	CLA	C3B-CAB	-2.06	1.43	1.47
33	dA	201	CYC	C1D-CHD	2.06	1.49	1.41
36	bD	607	CLA	C4B-CHC	-2.05	1.35	1.41
40	AE	409	LMT	O1'-C1'	-2.05	1.36	1.40
33	nK	201	CYC	C1D-CHD	2.05	1.49	1.41
36	cE	508	CLA	C4B-CHC	-2.05	1.35	1.41
36	iE	101	CLA	C3B-CAB	-2.05	1.43	1.47
36	C1	508	CLA	C1D-C2D	2.05	1.49	1.45
33	lH	201	CYC	C1D-CHD	2.05	1.49	1.41
36	c1	513	CLA	C3B-C2B	-2.05	1.37	1.40
36	c1	506	CLA	C3B-CAB	-2.05	1.43	1.47
33	XB	201	CYC	C4D-CHA	2.05	1.49	1.41
36	d1	406	CLA	C3B-CAB	-2.05	1.43	1.47
33	NG	201	CYC	C1D-CHD	2.05	1.49	1.41
36	C1	503	CLA	CMC-C2C	-2.05	1.46	1.50
33	f8	201	CYC	C1D-CHD	2.05	1.49	1.41
33	ZF	201	CYC	C1B-C2B	2.05	1.48	1.45
33	T4	201	CYC	C1D-CHD	2.05	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	h5	201	CYC	C1D-CHD	2.05	1.49	1.41
40	DD	413	LMT	O1'-C1'	-2.05	1.36	1.40
36	b1	607	CLA	C4B-CHC	-2.05	1.35	1.41
33	nF	201	CYC	C1D-CHD	2.05	1.49	1.41
45	D1	402	PHO	CAA-C2A	-2.05	1.49	1.54
36	CD	509	CLA	C4B-CHC	-2.05	1.35	1.41
33	hC	201	CYC	C1D-CHD	2.05	1.49	1.41
36	c1	510	CLA	CMA-C3A	-2.05	1.48	1.53
36	BD	610	CLA	C3B-CAB	-2.05	1.43	1.47
33	a4	201	CYC	C1D-CHD	2.05	1.49	1.41
36	BE	610	CLA	C3B-CAB	-2.05	1.43	1.47
33	f6	201	CYC	C4B-NB	-2.05	1.33	1.38
33	j7	201	CYC	C4B-NB	-2.05	1.33	1.38
33	h8	201	CYC	C1D-CHD	2.05	1.49	1.41
36	aE	404	CLA	C4B-CHC	-2.05	1.35	1.41
33	l2	201	CYC	C1D-CHD	2.05	1.49	1.41
33	l3	201	CYC	C1D-CHD	2.05	1.49	1.41
33	l6	201	CYC	C1D-CHD	2.05	1.49	1.41
36	CE	513	CLA	CMC-C2C	-2.05	1.46	1.50
33	f3	201	CYC	C1D-CHD	2.05	1.49	1.41
33	hH	201	CYC	C1D-CHD	2.05	1.49	1.41
36	bD	608	CLA	MG-ND	-2.05	2.01	2.05
36	CE	514	CLA	C3B-CAB	-2.05	1.43	1.47
33	LF	201	CYC	C1B-C2B	2.05	1.48	1.45
36	bE	607	CLA	C4B-CHC	-2.05	1.35	1.41
40	AD	409	LMT	O1'-C1'	-2.05	1.36	1.40
33	zB	201	CYC	C4B-NB	-2.05	1.33	1.38
33	vB	201	CYC	C4B-NB	-2.05	1.33	1.38
33	h9	201	CYC	C1D-CHD	2.04	1.49	1.41
36	aD	405	CLA	C4B-CHC	-2.04	1.35	1.41
33	5G	201	CYC	C4A-C3A	2.04	1.50	1.45
33	b7	201	CYC	C4B-NB	-2.04	1.33	1.38
33	l9	201	CYC	C4B-NB	-2.04	1.33	1.38
36	BD	610	CLA	CAC-C3C	-2.04	1.45	1.51
33	GL	201	CYC	OB-C4B	2.04	1.27	1.23
40	b1	601	LMT	O5'-C5'	-2.04	1.39	1.44
36	b1	604	CLA	C3B-C2B	-2.04	1.37	1.40
33	mF	201	CYC	C4D-CHA	2.04	1.49	1.41
33	C4	1003	CYC	C1B-C2B	2.04	1.48	1.45
36	b1	604	CLA	C3B-CAB	-2.04	1.43	1.47
36	bD	604	CLA	C3B-CAB	-2.04	1.43	1.47
36	CE	510	CLA	MG-ND	-2.04	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	l9	201	CYC	C1D-CHD	2.04	1.49	1.41
33	hJ	201	CYC	C1D-CHD	2.04	1.49	1.41
33	OG	201	CYC	C4A-C3A	2.04	1.50	1.45
33	l8	201	CYC	C1D-CHD	2.04	1.49	1.41
36	aD	404	CLA	C4B-CHC	-2.04	1.35	1.41
33	u4	201	CYC	C4D-CHA	2.04	1.49	1.41
33	h7	201	CYC	C1D-CHD	2.04	1.49	1.41
36	cE	510	CLA	CMA-C3A	-2.04	1.48	1.53
33	TG	201	CYC	C1B-C2B	2.04	1.48	1.45
33	w4	201	CYC	C1D-CHD	2.04	1.49	1.41
36	CE	505	CLA	C3B-CAB	-2.04	1.43	1.47
33	X4	201	CYC	C2C-C1C	-2.04	1.50	1.52
36	cD	510	CLA	CMA-C3A	-2.04	1.48	1.53
33	d6	201	CYC	C4B-NB	-2.04	1.33	1.38
36	iD	101	CLA	C3B-CAB	-2.04	1.43	1.47
36	C1	510	CLA	MG-ND	-2.04	2.01	2.05
33	d9	201	CYC	C4B-NB	-2.04	1.33	1.38
33	OL	201	CYC	C4A-C3A	2.04	1.50	1.45
33	5L	201	CYC	C4A-C3A	2.04	1.50	1.45
33	ZK	201	CYC	C1B-C2B	2.04	1.48	1.45
36	B1	610	CLA	CAC-C3C	-2.04	1.45	1.51
33	TB	201	CYC	C1D-CHD	2.04	1.49	1.41
33	l7	201	CYC	C1D-CHD	2.04	1.49	1.41
40	bE	601	LMT	O5'-C5'	-2.04	1.39	1.44
33	l6	201	CYC	C4B-NB	-2.04	1.33	1.38
40	d1	413	LMT	O1'-C1'	-2.04	1.36	1.40
37	d1	408	PL9	C2-C1	-2.04	1.39	1.44
33	fl	201	CYC	C1D-CHD	2.04	1.49	1.41
33	h2	201	CYC	C1D-CHD	2.04	1.49	1.41
33	fA	201	CYC	C1D-CHD	2.03	1.49	1.41
36	BE	610	CLA	CAC-C3C	-2.03	1.45	1.51
33	bA	201	CYC	C1D-CHD	2.03	1.49	1.41
36	CE	509	CLA	C3B-C2B	-2.03	1.37	1.40
33	l7	201	CYC	C4B-NB	-2.03	1.33	1.38
36	XE	101	CLA	MG-ND	-2.03	2.01	2.05
33	bA	201	CYC	C4B-NB	-2.03	1.33	1.38
43	iE	102	BCR	C21-C22	-2.03	1.33	1.35
33	b5	201	CYC	C1D-CHD	2.03	1.49	1.41
33	fH	201	CYC	C1D-CHD	2.03	1.49	1.41
33	b2	201	CYC	C1D-CHD	2.03	1.49	1.41
33	b8	201	CYC	C4B-NB	-2.03	1.33	1.38
33	f5	201	CYC	C1D-CHD	2.03	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	f7	201	CYC	C1D-CHD	2.03	1.49	1.41
36	DE	405	CLA	C4B-CHC	-2.03	1.35	1.41
33	b8	201	CYC	C1D-CHD	2.03	1.49	1.41
33	uB	201	CYC	C4D-CHA	2.03	1.49	1.41
33	fC	201	CYC	C1D-CHD	2.03	1.49	1.41
36	CD	512	CLA	MG-ND	-2.03	2.01	2.05
33	GG	201	CYC	OB-C4B	2.03	1.27	1.23
36	a1	406	CLA	C4B-CHC	-2.03	1.35	1.41
33	lI	201	CYC	C1D-CHD	2.03	1.49	1.41
33	QG	201	CYC	C4A-C3A	2.03	1.50	1.45
33	f2	201	CYC	C1D-CHD	2.03	1.49	1.41
37	dD	408	PL9	C2-C1	-2.03	1.39	1.44
36	DD	405	CLA	C4B-CHC	-2.03	1.35	1.41
33	sB	201	CYC	C1A-NA	-2.03	1.34	1.38
33	W4	201	CYC	C1B-NB	-2.03	1.34	1.37
36	b1	608	CLA	MG-ND	-2.03	2.01	2.05
40	dD	413	LMT	O1'-C1'	-2.03	1.36	1.40
36	c1	509	CLA	MG-ND	-2.03	2.01	2.05
40	BE	619	LMT	C3'-C2'	2.03	1.57	1.52
33	lJ	201	CYC	C1D-CHD	2.03	1.49	1.41
40	A1	409	LMT	O1'-C1'	-2.03	1.36	1.40
33	dI	201	CYC	C4B-NB	-2.03	1.33	1.38
36	bE	608	CLA	MG-ND	-2.03	2.01	2.05
40	B1	619	LMT	C3'-C2'	2.03	1.57	1.52
33	d3	201	CYC	C4B-NB	-2.03	1.33	1.38
36	C1	505	CLA	C3B-C2B	-2.03	1.37	1.40
36	dE	406	CLA	CAC-C3C	-2.03	1.45	1.51
40	bD	601	LMT	O5'-C5'	-2.03	1.39	1.44
33	b6	201	CYC	C1D-CHD	2.03	1.49	1.41
43	iD	102	BCR	C21-C22	-2.03	1.33	1.35
33	f6	201	CYC	C1D-CHD	2.03	1.49	1.41
33	b9	201	CYC	C1D-CHD	2.03	1.49	1.41
33	mK	201	CYC	C4D-CHA	2.03	1.49	1.41
33	b7	201	CYC	C1D-CHD	2.03	1.49	1.41
36	AD	405	CLA	C4B-CHC	-2.03	1.35	1.41
33	s4	201	CYC	C1A-NA	-2.03	1.34	1.38
33	gF	201	CYC	C4A-C3A	2.03	1.50	1.45
36	X1	101	CLA	MG-ND	-2.02	2.01	2.05
33	JK	201	CYC	C4A-C3A	2.02	1.50	1.45
33	bH	201	CYC	C1D-CHD	2.02	1.49	1.41
36	XD	101	CLA	MG-ND	-2.02	2.01	2.05
33	B4	1001	CYC	C4A-C3A	2.02	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	CD	505	CLA	C3B-C2B	-2.02	1.37	1.40
36	CE	505	CLA	C3B-C2B	-2.02	1.37	1.40
33	B4	1003	CYC	C4A-C3A	2.02	1.50	1.45
33	d2	201	CYC	C4B-NB	-2.02	1.33	1.38
33	i8	202	CYC	O1A-CGA	2.02	1.28	1.22
33	bI	201	CYC	C1D-CHD	2.02	1.48	1.41
36	D1	404	CLA	C4B-CHC	-2.02	1.35	1.41
33	wB	201	CYC	C1D-CHD	2.02	1.48	1.41
33	bI	201	CYC	C4B-NB	-2.02	1.33	1.38
36	bE	604	CLA	C3B-C2B	-2.02	1.37	1.40
33	bC	201	CYC	C1D-CHD	2.02	1.48	1.41
36	bD	604	CLA	C3B-C2B	-2.02	1.37	1.40
33	T4	201	CYC	C4B-NB	-2.02	1.33	1.38
36	aE	405	CLA	C4B-CHC	-2.02	1.35	1.41
33	fJ	201	CYC	C1D-CHD	2.02	1.48	1.41
36	d1	406	CLA	CAC-C3C	-2.02	1.45	1.51
33	b3	201	CYC	C1D-CHD	2.02	1.48	1.41
36	xD	101	CLA	C3B-C2B	-2.02	1.37	1.40
33	BB	1003	CYC	C4A-C3A	2.02	1.50	1.45
33	VL	201	CYC	C4B-NB	-2.02	1.33	1.38
33	dH	201	CYC	C4B-NB	-2.02	1.33	1.38
33	i9	202	CYC	O1A-CGA	2.02	1.28	1.22
33	gK	201	CYC	C4A-C3A	2.02	1.50	1.45
40	BD	619	LMT	C3'-C2'	2.02	1.57	1.52
36	cE	503	CLA	MG-ND	-2.02	2.01	2.05
33	d7	201	CYC	C4B-NB	-2.02	1.33	1.38
33	CB	1003	CYC	C1A-NA	-2.01	1.34	1.38
37	DE	408	PL9	C2-C1	-2.01	1.39	1.44
36	x1	101	CLA	MG-ND	-2.01	2.01	2.05
33	IL	201	CYC	C1A-NA	-2.01	1.34	1.38
33	i2	202	CYC	O1A-CGA	2.01	1.28	1.22
33	lH	201	CYC	C4B-NB	-2.01	1.33	1.38
33	TL	201	CYC	C1B-C2B	2.01	1.48	1.45
36	x1	101	CLA	C3B-C2B	-2.01	1.37	1.40
36	xE	101	CLA	C3B-C2B	-2.01	1.37	1.40
33	O4	201	CYC	C4B-NB	-2.01	1.33	1.38
33	bC	201	CYC	C4B-NB	-2.01	1.33	1.38
36	cE	506	CLA	C1B-NB	-2.01	1.33	1.35
36	CD	505	CLA	C3B-CAB	-2.01	1.43	1.47
36	dD	406	CLA	CAC-C3C	-2.01	1.46	1.51
36	cD	503	CLA	MG-ND	-2.01	2.01	2.05
43	i1	101	BCR	C21-C22	-2.01	1.33	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	JF	201	CYC	C4A-C3A	2.01	1.50	1.45
33	iH	202	CYC	O1A-CGA	2.01	1.28	1.22
33	bJ	201	CYC	C1D-CHD	2.01	1.48	1.41
33	iA	202	CYC	O1A-CGA	2.01	1.28	1.22
33	f9	201	CYC	C1D-CHD	2.01	1.48	1.41
36	CD	512	CLA	CMC-C2C	-2.01	1.46	1.50
36	xE	101	CLA	MG-ND	-2.01	2.01	2.05
37	dE	408	PL9	C2-C1	-2.01	1.39	1.44
33	b5	201	CYC	C4B-NB	-2.01	1.33	1.38
33	aF	201	CYC	C1D-CHD	2.01	1.48	1.41
36	CD	510	CLA	MG-ND	-2.01	2.01	2.05
33	i3	202	CYC	O1A-CGA	2.01	1.28	1.22
37	aE	408	PL9	C2-C1	-2.01	1.39	1.44
33	VG	201	CYC	C4B-NB	-2.01	1.33	1.38
33	b2	201	CYC	C4B-NB	-2.01	1.33	1.38
33	BB	1001	CYC	C4A-C3A	2.01	1.50	1.45
36	CE	512	CLA	CMC-C2C	-2.01	1.46	1.50
33	lA	201	CYC	C4B-NB	-2.01	1.33	1.38
33	d8	201	CYC	C4B-NB	-2.01	1.33	1.38
33	OB	201	CYC	C4B-NB	-2.01	1.33	1.38
33	i6	202	CYC	O1A-CGA	2.01	1.28	1.22
33	i7	202	CYC	O1A-CGA	2.01	1.28	1.22
36	A1	405	CLA	C4B-CHC	-2.01	1.35	1.41
36	xD	101	CLA	MG-ND	-2.01	2.01	2.05
33	i5	202	CYC	O1A-CGA	2.01	1.28	1.22
36	C1	512	CLA	CMC-C2C	-2.01	1.46	1.50
33	bH	201	CYC	C4B-NB	-2.01	1.33	1.38
33	C4	1003	CYC	C1A-NA	-2.01	1.34	1.38
33	4G	201	CYC	OB-C4B	2.01	1.27	1.23
36	C1	505	CLA	C3B-CAB	-2.00	1.43	1.47
33	l8	201	CYC	C4B-NB	-2.00	1.33	1.38
36	C1	512	CLA	MG-ND	-2.00	2.01	2.05
33	QL	201	CYC	C4A-C3A	2.00	1.50	1.45
33	k2	201	CYC	O1A-CGA	2.00	1.28	1.22
33	QG	201	CYC	CHD-C4C	-2.00	1.32	1.38
33	b9	201	CYC	C4B-NB	-2.00	1.33	1.38
36	cD	513	CLA	C4B-CHC	-2.00	1.35	1.41
33	eF	201	CYC	C1D-CHD	2.00	1.48	1.41
33	ZK	201	CYC	C4A-C3A	2.00	1.50	1.45
33	TB	201	CYC	C4B-NB	-2.00	1.33	1.38
33	b3	201	CYC	C4B-NB	-2.00	1.33	1.38
37	DD	408	PL9	C2-C1	-2.00	1.39	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	b6	201	CYC	C4B-NB	-2.00	1.33	1.38
33	iI	202	CYC	O1A-CGA	2.00	1.28	1.22
36	AE	405	CLA	C4B-CHC	-2.00	1.35	1.41
33	3F	102	CYC	C1B-C2B	2.00	1.48	1.45
36	cD	511	CLA	MG-ND	-2.00	2.01	2.05

All (10766) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	C4	1001	CYC	CMD-C2D-C3D	22.02	166.46	124.94
33	CB	1001	CYC	CMD-C2D-C3D	22.01	166.45	124.94
38	BE	621	SQD	O9-S-C6	-20.40	82.70	106.94
38	BD	621	SQD	O9-S-C6	-20.39	82.70	106.94
38	B1	622	SQD	O9-S-C6	-20.38	82.71	106.94
33	C4	1001	CYC	C4D-CHA-C1A	18.82	151.29	128.81
33	CB	1001	CYC	C4D-CHA-C1A	18.82	151.29	128.81
33	C4	1001	CYC	CHA-C1A-NA	-16.52	105.92	128.83
33	CB	1001	CYC	CHA-C1A-NA	-16.49	105.95	128.83
33	iJ	202	CYC	O2A-CGA-O1A	-15.40	84.92	123.30
33	iH	202	CYC	O2A-CGA-O1A	-15.39	84.95	123.30
33	iA	202	CYC	O2A-CGA-O1A	-15.39	84.95	123.30
33	i7	202	CYC	O2A-CGA-O1A	-15.39	84.95	123.30
33	g5	202	CYC	O2A-CGA-O1A	-15.39	84.95	123.30
33	e3	201	CYC	O2A-CGA-O1A	-15.38	84.95	123.30
33	i2	202	CYC	O2A-CGA-O1A	-15.38	84.95	123.30
33	B7	301	CYC	O2A-CGA-O1A	-15.38	84.95	123.30
33	iC	202	CYC	O2A-CGA-O1A	-15.38	84.96	123.30
33	c6	201	CYC	O2A-CGA-O1A	-15.38	84.96	123.30
33	i6	202	CYC	O2A-CGA-O1A	-15.38	84.96	123.30
33	BI	301	CYC	O2A-CGA-O1A	-15.38	84.96	123.30
33	c8	201	CYC	O2A-CGA-O1A	-15.38	84.96	123.30
33	i9	202	CYC	O2A-CGA-O1A	-15.38	84.96	123.30
33	e7	201	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
33	i5	202	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
33	iI	202	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
33	gJ	202	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
33	BC	301	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
33	i3	202	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
33	B9	301	CYC	O2A-CGA-O1A	-15.38	84.97	123.30
33	c9	201	CYC	O2A-CGA-O1A	-15.38	84.98	123.30
33	eJ	201	CYC	O2A-CGA-O1A	-15.37	84.98	123.30
33	i8	202	CYC	O2A-CGA-O1A	-15.37	84.98	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	gH	202	CYC	O2A-CGA-O1A	-15.37	84.99	123.30
33	cJ	201	CYC	O2A-CGA-O1A	-15.37	84.99	123.30
33	cC	201	CYC	O2A-CGA-O1A	-15.37	84.99	123.30
33	B6	301	CYC	O2A-CGA-O1A	-15.37	84.99	123.30
33	BA	301	CYC	O2A-CGA-O1A	-15.37	84.99	123.30
33	k2	201	CYC	O2A-CGA-O1A	-15.37	84.99	123.30
33	cH	201	CYC	O2A-CGA-O1A	-15.37	85.00	123.30
33	cA	201	CYC	O2A-CGA-O1A	-15.37	85.00	123.30
33	c5	201	CYC	O2A-CGA-O1A	-15.37	85.00	123.30
33	e2	201	CYC	O2A-CGA-O1A	-15.36	85.00	123.30
33	eA	201	CYC	O2A-CGA-O1A	-15.36	85.00	123.30
33	eH	201	CYC	O2A-CGA-O1A	-15.36	85.00	123.30
33	c3	201	CYC	O2A-CGA-O1A	-15.36	85.01	123.30
33	g8	202	CYC	O2A-CGA-O1A	-15.36	85.01	123.30
33	e6	201	CYC	O2A-CGA-O1A	-15.36	85.01	123.30
33	eC	201	CYC	O2A-CGA-O1A	-15.36	85.01	123.30
33	kA	201	CYC	O2A-CGA-O1A	-15.36	85.01	123.30
33	c7	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
33	kC	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
33	B3	301	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
33	c2	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
33	k3	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
33	eI	201	CYC	O2A-CGA-O1A	-15.36	85.02	123.30
33	B2	301	CYC	O2A-CGA-O1A	-15.36	85.03	123.30
33	k7	201	CYC	O2A-CGA-O1A	-15.35	85.03	123.30
33	e8	201	CYC	O2A-CGA-O1A	-15.35	85.03	123.30
33	k9	201	CYC	O2A-CGA-O1A	-15.35	85.03	123.30
33	e5	201	CYC	O2A-CGA-O1A	-15.35	85.03	123.30
33	kJ	201	CYC	O2A-CGA-O1A	-15.35	85.04	123.30
33	kH	201	CYC	O2A-CGA-O1A	-15.35	85.04	123.30
33	eI	201	CYC	O2A-CGA-O1A	-15.35	85.04	123.30
33	e9	201	CYC	O2A-CGA-O1A	-15.35	85.05	123.30
33	kI	201	CYC	O2A-CGA-O1A	-15.35	85.05	123.30
33	k6	201	CYC	O2A-CGA-O1A	-15.34	85.06	123.30
33	k8	201	CYC	O2A-CGA-O1A	-15.34	85.06	123.30
33	k5	201	CYC	O2A-CGA-O1A	-15.34	85.07	123.30
33	a4	201	CYC	C3B-C4B-NB	13.65	117.80	106.78
33	aB	201	CYC	C3B-C4B-NB	13.61	117.77	106.78
45	dE	402	PHO	C6-C7-C8	-13.16	73.39	115.92
33	ML	201	CYC	C3B-C4B-NB	13.11	117.37	106.78
33	MG	201	CYC	C3B-C4B-NB	13.10	117.36	106.78
33	HG	201	CYC	C3B-C4B-NB	12.75	117.08	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	HL	201	CYC	C3B-C4B-NB	12.74	117.07	106.78
33	PL	201	CYC	C3B-C4B-NB	12.69	117.03	106.78
33	PG	201	CYC	C3B-C4B-NB	12.67	117.01	106.78
33	NG	201	CYC	C3B-C4B-NB	12.39	116.79	106.78
33	NL	201	CYC	C3B-C4B-NB	12.36	116.77	106.78
33	LG	201	CYC	C3B-C4B-NB	12.32	116.74	106.78
33	LL	201	CYC	C3B-C4B-NB	12.32	116.73	106.78
33	GL	201	CYC	C3B-C4B-NB	12.26	116.68	106.78
33	GG	201	CYC	C3B-C4B-NB	12.22	116.65	106.78
33	LL	201	CYC	C4D-CHA-C1A	12.15	143.32	128.81
33	LG	201	CYC	C4D-CHA-C1A	12.11	143.28	128.81
33	y4	201	CYC	C3B-C4B-NB	12.09	116.55	106.78
33	HL	201	CYC	OB-C4B-C3B	-12.08	114.93	128.04
33	HG	201	CYC	OB-C4B-C3B	-12.06	114.95	128.04
36	CD	510	CLA	C4A-NA-C1A	12.05	112.12	106.71
33	TL	201	CYC	C3B-C4B-NB	12.05	116.51	106.78
33	TG	201	CYC	C3B-C4B-NB	12.03	116.50	106.78
33	yB	201	CYC	C3B-C4B-NB	12.03	116.50	106.78
36	CE	510	CLA	C4A-NA-C1A	12.02	112.11	106.71
36	C1	510	CLA	C4A-NA-C1A	11.95	112.08	106.71
33	3K	102	CYC	C3B-C4B-NB	11.90	116.39	106.78
33	3F	102	CYC	C3B-C4B-NB	11.90	116.39	106.78
33	hA	201	CYC	C3B-C4B-NB	11.86	116.36	106.78
33	h8	201	CYC	C3B-C4B-NB	11.84	116.35	106.78
33	hI	201	CYC	C3B-C4B-NB	11.84	116.35	106.78
33	h3	201	CYC	C3B-C4B-NB	11.83	116.33	106.78
33	h5	201	CYC	C3B-C4B-NB	11.82	116.33	106.78
33	hH	201	CYC	C3B-C4B-NB	11.81	116.32	106.78
33	h9	201	CYC	C3B-C4B-NB	11.81	116.32	106.78
33	h6	201	CYC	C3B-C4B-NB	11.78	116.30	106.78
33	h7	201	CYC	C3B-C4B-NB	11.78	116.30	106.78
33	hC	201	CYC	C3B-C4B-NB	11.78	116.29	106.78
33	hJ	201	CYC	C3B-C4B-NB	11.78	116.29	106.78
33	j6	201	CYC	C3B-C4B-NB	11.77	116.29	106.78
33	h2	201	CYC	C3B-C4B-NB	11.76	116.28	106.78
33	fI	201	CYC	C3B-C4B-NB	11.76	116.28	106.78
33	lA	201	CYC	C3B-C4B-NB	11.75	116.27	106.78
33	f2	201	CYC	C3B-C4B-NB	11.75	116.27	106.78
33	lJ	201	CYC	C3B-C4B-NB	11.75	116.27	106.78
33	f3	201	CYC	C3B-C4B-NB	11.75	116.27	106.78
33	f5	201	CYC	C3B-C4B-NB	11.75	116.27	106.78
33	j8	201	CYC	C3B-C4B-NB	11.73	116.26	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	lH	201	CYC	C3B-C4B-NB	11.73	116.26	106.78
33	l2	201	CYC	C3B-C4B-NB	11.73	116.25	106.78
33	j5	201	CYC	C3B-C4B-NB	11.73	116.25	106.78
33	l6	201	CYC	C3B-C4B-NB	11.73	116.25	106.78
33	l7	201	CYC	C3B-C4B-NB	11.73	116.25	106.78
33	j3	201	CYC	C3B-C4B-NB	11.73	116.25	106.78
33	l9	201	CYC	C3B-C4B-NB	11.72	116.25	106.78
33	f7	201	CYC	C3B-C4B-NB	11.72	116.25	106.78
33	f9	201	CYC	C3B-C4B-NB	11.72	116.25	106.78
33	j2	201	CYC	C3B-C4B-NB	11.72	116.24	106.78
33	l5	201	CYC	C3B-C4B-NB	11.72	116.24	106.78
33	fH	201	CYC	C3B-C4B-NB	11.71	116.24	106.78
33	lI	201	CYC	C3B-C4B-NB	11.71	116.24	106.78
33	l8	201	CYC	C3B-C4B-NB	11.71	116.24	106.78
33	jH	201	CYC	C3B-C4B-NB	11.71	116.24	106.78
33	jA	201	CYC	C3B-C4B-NB	11.70	116.23	106.78
33	fJ	201	CYC	C3B-C4B-NB	11.70	116.23	106.78
33	fC	201	CYC	C3B-C4B-NB	11.70	116.23	106.78
33	jI	201	CYC	C3B-C4B-NB	11.70	116.23	106.78
33	j9	201	CYC	C3B-C4B-NB	11.69	116.23	106.78
33	f6	201	CYC	C3B-C4B-NB	11.69	116.22	106.78
33	fA	201	CYC	C3B-C4B-NB	11.68	116.22	106.78
33	f8	201	CYC	C3B-C4B-NB	11.68	116.21	106.78
33	jJ	201	CYC	C3B-C4B-NB	11.68	116.21	106.78
33	lC	201	CYC	C3B-C4B-NB	11.68	116.21	106.78
33	j7	201	CYC	C3B-C4B-NB	11.67	116.21	106.78
33	bC	201	CYC	C3B-C4B-NB	11.67	116.20	106.78
33	s4	201	CYC	C3B-C4B-NB	11.66	116.20	106.78
33	l3	201	CYC	C3B-C4B-NB	11.66	116.20	106.78
33	sB	201	CYC	C3B-C4B-NB	11.66	116.20	106.78
33	Z4	201	CYC	C3B-C4B-NB	11.66	116.19	106.78
33	jC	201	CYC	C3B-C4B-NB	11.64	116.19	106.78
33	XF	201	CYC	C3B-C4B-NB	11.64	116.18	106.78
33	b7	201	CYC	C3B-C4B-NB	11.64	116.18	106.78
33	ZB	201	CYC	C3B-C4B-NB	11.64	116.18	106.78
33	bA	201	CYC	C3B-C4B-NB	11.64	116.18	106.78
33	b3	201	CYC	C3B-C4B-NB	11.64	116.18	106.78
33	V4	201	CYC	C3B-C4B-NB	11.63	116.18	106.78
33	d2	201	CYC	C3B-C4B-NB	11.63	116.17	106.78
33	b8	201	CYC	C3B-C4B-NB	11.63	116.17	106.78
33	bI	201	CYC	C3B-C4B-NB	11.62	116.17	106.78
33	bH	201	CYC	C3B-C4B-NB	11.62	116.17	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	d6	201	CYC	C3B-C4B-NB	11.62	116.16	106.78
33	VB	201	CYC	C3B-C4B-NB	11.61	116.16	106.78
33	b6	201	CYC	C3B-C4B-NB	11.61	116.16	106.78
33	v4	201	CYC	C3B-C4B-NB	11.61	116.16	106.78
33	vB	201	CYC	C3B-C4B-NB	11.61	116.16	106.78
33	WB	201	CYC	C3B-C4B-NB	11.60	116.15	106.78
33	XK	201	CYC	C3B-C4B-NB	11.60	116.15	106.78
33	b9	201	CYC	C3B-C4B-NB	11.59	116.15	106.78
33	b5	201	CYC	C3B-C4B-NB	11.59	116.14	106.78
33	b2	201	CYC	C3B-C4B-NB	11.58	116.14	106.78
33	W4	201	CYC	C3B-C4B-NB	11.58	116.14	106.78
36	c1	509	CLA	C4A-NA-C1A	11.58	111.91	106.71
33	d5	201	CYC	C3B-C4B-NB	11.57	116.13	106.78
33	dH	201	CYC	C3B-C4B-NB	11.57	116.13	106.78
33	d7	201	CYC	C3B-C4B-NB	11.57	116.13	106.78
33	dA	201	CYC	C3B-C4B-NB	11.57	116.12	106.78
33	d9	201	CYC	C3B-C4B-NB	11.56	116.12	106.78
33	dJ	201	CYC	C3B-C4B-NB	11.56	116.12	106.78
36	cD	509	CLA	C4A-NA-C1A	11.56	111.90	106.71
33	bJ	201	CYC	C3B-C4B-NB	11.56	116.11	106.78
33	d8	201	CYC	C3B-C4B-NB	11.55	116.11	106.78
33	dI	201	CYC	C3B-C4B-NB	11.55	116.11	106.78
33	dC	201	CYC	C3B-C4B-NB	11.54	116.10	106.78
33	d3	201	CYC	C3B-C4B-NB	11.53	116.09	106.78
36	cE	509	CLA	C4A-NA-C1A	11.52	111.89	106.71
33	JG	201	CYC	C3B-C4B-NB	11.52	116.08	106.78
33	JL	201	CYC	C3B-C4B-NB	11.52	116.08	106.78
33	LF	201	CYC	C3B-C4B-NB	11.50	116.07	106.78
33	LK	201	CYC	C3B-C4B-NB	11.45	116.03	106.78
33	nF	201	CYC	C3B-C4B-NB	11.37	115.97	106.78
33	OL	201	CYC	C3B-C4B-NB	11.35	115.95	106.78
33	OG	201	CYC	C3B-C4B-NB	11.35	115.95	106.78
33	gK	201	CYC	C3B-C4B-NB	11.34	115.94	106.78
33	QB	201	CYC	C3B-C4B-NB	11.33	115.93	106.78
33	gF	201	CYC	C3B-C4B-NB	11.33	115.93	106.78
33	9K	201	CYC	C3B-C4B-NB	11.32	115.93	106.78
33	nK	201	CYC	C3B-C4B-NB	11.32	115.92	106.78
33	Q4	201	CYC	C3B-C4B-NB	11.32	115.92	106.78
33	ZK	201	CYC	C3B-C4B-NB	11.31	115.92	106.78
33	9F	201	CYC	C3B-C4B-NB	11.29	115.90	106.78
33	ZF	201	CYC	C3B-C4B-NB	11.28	115.89	106.78
33	fK	201	CYC	C3B-C4B-NB	11.28	115.89	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	QG	201	CYC	C3B-C4B-NB	11.28	115.89	106.78
33	CB	1001	CYC	C3B-C4B-NB	11.27	115.88	106.78
38	BE	621	SQD	O8-S-O9	-11.27	83.74	111.27
33	fF	201	CYC	C3B-C4B-NB	11.26	115.88	106.78
33	C4	1001	CYC	C3B-C4B-NB	11.26	115.87	106.78
38	BD	621	SQD	O8-S-O9	-11.26	83.77	111.27
33	JF	201	CYC	C3B-C4B-NB	11.25	115.87	106.78
33	4G	201	CYC	C3B-C4B-NB	11.25	115.87	106.78
38	B1	622	SQD	O8-S-O9	-11.25	83.78	111.27
33	QL	201	CYC	C3B-C4B-NB	11.25	115.87	106.78
33	6G	201	CYC	C3B-C4B-NB	11.25	115.87	106.78
33	6L	201	CYC	C3B-C4B-NB	11.24	115.86	106.78
33	f7	201	CYC	O2D-CGD-O1D	-11.23	95.31	123.30
33	4L	201	CYC	C3B-C4B-NB	11.23	115.85	106.78
33	f5	201	CYC	O2D-CGD-O1D	-11.23	95.31	123.30
33	fH	201	CYC	O2D-CGD-O1D	-11.23	95.32	123.30
33	bA	201	CYC	O2D-CGD-O1D	-11.22	95.32	123.30
33	fC	201	CYC	O2D-CGD-O1D	-11.22	95.32	123.30
33	f2	201	CYC	O2D-CGD-O1D	-11.22	95.33	123.30
33	b2	201	CYC	O2D-CGD-O1D	-11.22	95.33	123.30
33	JK	201	CYC	C3B-C4B-NB	11.22	115.84	106.78
33	fI	201	CYC	O2D-CGD-O1D	-11.22	95.34	123.30
33	f3	201	CYC	O2D-CGD-O1D	-11.22	95.34	123.30
33	bJ	201	CYC	O2D-CGD-O1D	-11.21	95.35	123.30
33	f8	201	CYC	O2D-CGD-O1D	-11.21	95.35	123.30
33	bH	201	CYC	O2D-CGD-O1D	-11.21	95.35	123.30
33	fJ	201	CYC	O2D-CGD-O1D	-11.21	95.35	123.30
33	f6	201	CYC	O2D-CGD-O1D	-11.21	95.35	123.30
33	b6	201	CYC	O2D-CGD-O1D	-11.21	95.36	123.30
33	b3	201	CYC	O2D-CGD-O1D	-11.21	95.36	123.30
33	b8	201	CYC	O2D-CGD-O1D	-11.21	95.36	123.30
33	fA	201	CYC	O2D-CGD-O1D	-11.21	95.36	123.30
33	f9	201	CYC	O2D-CGD-O1D	-11.21	95.36	123.30
33	bC	201	CYC	O2D-CGD-O1D	-11.21	95.36	123.30
33	d5	201	CYC	O2D-CGD-O1D	-11.21	95.37	123.30
33	d2	201	CYC	O2D-CGD-O1D	-11.20	95.38	123.30
33	b7	201	CYC	O2D-CGD-O1D	-11.20	95.38	123.30
33	d6	201	CYC	O2D-CGD-O1D	-11.20	95.38	123.30
33	d8	201	CYC	O2D-CGD-O1D	-11.20	95.39	123.30
33	d9	201	CYC	O2D-CGD-O1D	-11.20	95.39	123.30
33	bI	201	CYC	O2D-CGD-O1D	-11.20	95.39	123.30
33	b9	201	CYC	O2D-CGD-O1D	-11.20	95.39	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	h6	201	CYC	O2D-CGD-O1D	-11.20	95.40	123.30
33	b5	201	CYC	O2D-CGD-O1D	-11.20	95.40	123.30
33	dC	201	CYC	O2D-CGD-O1D	-11.19	95.40	123.30
33	dH	201	CYC	O2D-CGD-O1D	-11.19	95.40	123.30
33	l8	201	CYC	O2D-CGD-O1D	-11.19	95.40	123.30
33	l3	201	CYC	O2D-CGD-O1D	-11.19	95.41	123.30
33	h3	201	CYC	O2D-CGD-O1D	-11.19	95.41	123.30
33	l5	201	CYC	O2D-CGD-O1D	-11.19	95.41	123.30
33	lJ	201	CYC	O2D-CGD-O1D	-11.19	95.42	123.30
33	l7	201	CYC	O2D-CGD-O1D	-11.19	95.42	123.30
33	dI	201	CYC	O2D-CGD-O1D	-11.18	95.42	123.30
33	d3	201	CYC	O2D-CGD-O1D	-11.18	95.42	123.30
33	hC	201	CYC	O2D-CGD-O1D	-11.18	95.42	123.30
33	dJ	201	CYC	O2D-CGD-O1D	-11.18	95.42	123.30
33	dA	201	CYC	O2D-CGD-O1D	-11.18	95.43	123.30
33	hA	201	CYC	O2D-CGD-O1D	-11.18	95.43	123.30
33	d7	201	CYC	O2D-CGD-O1D	-11.18	95.43	123.30
33	lH	201	CYC	O2D-CGD-O1D	-11.18	95.43	123.30
33	l6	201	CYC	O2D-CGD-O1D	-11.18	95.43	123.30
33	h7	201	CYC	O2D-CGD-O1D	-11.18	95.44	123.30
33	qB	201	CYC	C3B-C4B-NB	11.18	115.81	106.78
33	lI	201	CYC	O2D-CGD-O1D	-11.18	95.44	123.30
33	h2	201	CYC	O2D-CGD-O1D	-11.18	95.45	123.30
33	hH	201	CYC	O2D-CGD-O1D	-11.17	95.45	123.30
33	hJ	201	CYC	O2D-CGD-O1D	-11.17	95.45	123.30
33	l9	201	CYC	O2D-CGD-O1D	-11.17	95.45	123.30
33	lA	201	CYC	O2D-CGD-O1D	-11.17	95.45	123.30
33	hI	201	CYC	O2D-CGD-O1D	-11.17	95.46	123.30
33	AL	201	CYC	C3B-C4B-NB	11.17	115.80	106.78
33	AG	201	CYC	C3B-C4B-NB	11.17	115.80	106.78
33	h8	201	CYC	O2D-CGD-O1D	-11.16	95.47	123.30
33	h9	201	CYC	O2D-CGD-O1D	-11.16	95.48	123.30
33	aK	201	CYC	C3B-C4B-NB	11.16	115.80	106.78
33	l2	201	CYC	O2D-CGD-O1D	-11.16	95.48	123.30
33	X4	201	CYC	C3B-C4B-NB	11.16	115.79	106.78
33	h5	201	CYC	O2D-CGD-O1D	-11.16	95.48	123.30
33	q4	201	CYC	C3B-C4B-NB	11.16	115.79	106.78
33	lC	201	CYC	O2D-CGD-O1D	-11.16	95.49	123.30
33	aF	201	CYC	C3B-C4B-NB	11.14	115.78	106.78
33	T4	201	CYC	C3B-C4B-NB	11.14	115.78	106.78
33	jJ	201	CYC	O2D-CGD-O1D	-11.13	95.55	123.30
33	XB	201	CYC	C3B-C4B-NB	11.13	115.77	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	jI	201	CYC	O2D-CGD-O1D	-11.13	95.56	123.30
33	j9	201	CYC	O2D-CGD-O1D	-11.12	95.57	123.30
33	jH	201	CYC	O2D-CGD-O1D	-11.12	95.58	123.30
33	j8	201	CYC	O2D-CGD-O1D	-11.12	95.58	123.30
33	jA	201	CYC	O2D-CGD-O1D	-11.12	95.58	123.30
33	TB	201	CYC	C3B-C4B-NB	11.12	115.76	106.78
33	j3	201	CYC	O2D-CGD-O1D	-11.12	95.59	123.30
33	j2	201	CYC	O2D-CGD-O1D	-11.12	95.59	123.30
33	jC	201	CYC	O2D-CGD-O1D	-11.12	95.59	123.30
33	j6	201	CYC	O2D-CGD-O1D	-11.11	95.60	123.30
33	j5	201	CYC	O2D-CGD-O1D	-11.11	95.60	123.30
33	j7	201	CYC	O2D-CGD-O1D	-11.11	95.61	123.30
33	RG	201	CYC	C3B-C4B-NB	11.09	115.74	106.78
33	w4	201	CYC	C3B-C4B-NB	11.09	115.74	106.78
33	RL	201	CYC	C3B-C4B-NB	11.08	115.73	106.78
33	LG	201	CYC	CMD-C2D-C3D	11.06	145.80	124.94
33	LL	201	CYC	CMD-C2D-C3D	11.06	145.79	124.94
33	wB	201	CYC	C3B-C4B-NB	11.04	115.69	106.78
33	VG	201	CYC	C3B-C4B-NB	10.97	115.64	106.78
33	mK	201	CYC	C3B-C4B-NB	10.95	115.63	106.78
33	b4	101	CYC	C3B-C4B-NB	10.95	115.62	106.78
33	B4	1004	CYC	C3B-C4B-NB	10.94	115.62	106.78
33	C4	1002	CYC	C3B-C4B-NB	10.92	115.60	106.78
33	VL	201	CYC	C3B-C4B-NB	10.92	115.60	106.78
33	mF	201	CYC	C3B-C4B-NB	10.91	115.59	106.78
33	CB	1002	CYC	C3B-C4B-NB	10.91	115.59	106.78
33	r4	201	CYC	C3B-C4B-NB	10.90	115.59	106.78
33	BB	1004	CYC	C3B-C4B-NB	10.90	115.58	106.78
33	bB	101	CYC	C3B-C4B-NB	10.89	115.58	106.78
38	BD	621	SQD	O7-S-C6	10.88	119.86	106.94
33	kF	201	CYC	C3B-C4B-NB	10.87	115.56	106.78
38	BE	621	SQD	O7-S-C6	10.87	119.86	106.94
33	rB	201	CYC	C3B-C4B-NB	10.86	115.55	106.78
33	kK	201	CYC	C3B-C4B-NB	10.86	115.55	106.78
38	B1	622	SQD	O7-S-C6	10.85	119.84	106.94
33	B4	1001	CYC	C3B-C4B-NB	10.82	115.52	106.78
33	KF	201	CYC	C3B-C4B-NB	10.82	115.52	106.78
33	BB	1001	CYC	C3B-C4B-NB	10.79	115.49	106.78
33	KK	201	CYC	C3B-C4B-NB	10.75	115.46	106.78
33	BB	1003	CYC	C3B-C4B-NB	10.71	115.43	106.78
33	B4	1003	CYC	C3B-C4B-NB	10.69	115.41	106.78
33	P4	201	CYC	C3B-C4B-NB	10.68	115.41	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	PB	201	CYC	C3B-C4B-NB	10.67	115.40	106.78
33	WG	201	CYC	C3B-C4B-NB	10.64	115.37	106.78
33	zB	201	CYC	C3B-C4B-NB	10.63	115.36	106.78
33	WL	201	CYC	C3B-C4B-NB	10.62	115.36	106.78
33	z4	201	CYC	C3B-C4B-NB	10.62	115.36	106.78
33	O4	201	CYC	C3B-C4B-NB	10.56	115.31	106.78
33	OB	201	CYC	C3B-C4B-NB	10.53	115.29	106.78
36	bD	609	CLA	CMB-C2B-C1B	-10.42	112.45	128.46
36	b1	609	CLA	CMB-C2B-C1B	-10.42	112.45	128.46
36	bE	609	CLA	CMB-C2B-C1B	-10.41	112.46	128.46
33	o4	201	CYC	C3B-C4B-NB	10.41	115.19	106.78
33	oB	201	CYC	C3B-C4B-NB	10.41	115.19	106.78
33	cK	201	CYC	C3B-C4B-NB	10.40	115.18	106.78
33	hK	201	CYC	CMA-C3A-C4A	10.39	141.06	125.06
33	cF	201	CYC	C3B-C4B-NB	10.38	115.16	106.78
33	hF	201	CYC	CMA-C3A-C4A	10.37	141.04	125.06
33	u4	201	CYC	C3B-C4B-NB	10.36	115.15	106.78
33	uB	201	CYC	C3B-C4B-NB	10.36	115.15	106.78
36	B1	607	CLA	CMB-C2B-C1B	-10.34	112.57	128.46
36	BD	607	CLA	CMB-C2B-C1B	-10.34	112.58	128.46
33	IL	201	CYC	C3B-C4B-NB	10.33	115.12	106.78
36	BE	607	CLA	CMB-C2B-C1B	-10.33	112.59	128.46
33	IG	201	CYC	C3B-C4B-NB	10.32	115.12	106.78
33	R4	201	CYC	CMA-C3A-C4A	10.31	140.94	125.06
33	dF	201	CYC	CMA-C3A-C4A	10.31	140.94	125.06
33	bF	201	CYC	C3B-C4B-NB	10.31	115.11	106.78
33	RB	201	CYC	CMA-C3A-C4A	10.31	140.94	125.06
33	YF	201	CYC	CMA-C3A-C4A	10.31	140.94	125.06
33	YK	201	CYC	CMA-C3A-C4A	10.30	140.93	125.06
33	dK	201	CYC	CMA-C3A-C4A	10.30	140.93	125.06
33	jF	201	CYC	C3B-C4B-NB	10.29	115.09	106.78
33	jK	201	CYC	C3B-C4B-NB	10.28	115.09	106.78
33	bK	201	CYC	C3B-C4B-NB	10.28	115.08	106.78
33	BB	1002	CYC	C3B-C4B-NB	10.25	115.06	106.78
33	5L	201	CYC	C3B-C4B-NB	10.24	115.05	106.78
33	B4	1002	CYC	C3B-C4B-NB	10.24	115.05	106.78
33	BI	301	CYC	C3B-C4B-NB	10.23	115.04	106.78
33	5G	201	CYC	C3B-C4B-NB	10.23	115.04	106.78
33	g5	202	CYC	C3B-C4B-NB	10.22	115.03	106.78
33	g8	202	CYC	C3B-C4B-NB	10.20	115.02	106.78
33	B7	301	CYC	C3B-C4B-NB	10.20	115.02	106.78
33	B2	301	CYC	C3B-C4B-NB	10.19	115.01	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	BA	301	CYC	C3B-C4B-NB	10.19	115.01	106.78
33	B3	301	CYC	C3B-C4B-NB	10.18	115.00	106.78
33	BC	301	CYC	C3B-C4B-NB	10.18	115.00	106.78
33	gH	202	CYC	C3B-C4B-NB	10.18	115.00	106.78
33	C4	1003	CYC	C3B-C4B-NB	10.17	114.99	106.78
36	H1	101	CLA	C4A-NA-C1A	10.16	111.27	106.71
36	HD	101	CLA	C4A-NA-C1A	10.15	111.27	106.71
36	HE	101	CLA	C4A-NA-C1A	10.15	111.27	106.71
33	gJ	202	CYC	C3B-C4B-NB	10.15	114.98	106.78
33	B6	301	CYC	C3B-C4B-NB	10.15	114.97	106.78
33	B9	301	CYC	C3B-C4B-NB	10.14	114.97	106.78
33	i2	202	CYC	C3B-C4B-NB	10.14	114.97	106.78
33	NF	101	CYC	C3B-C4B-NB	10.12	114.95	106.78
33	eK	201	CYC	C3B-C4B-NB	10.12	114.95	106.78
33	CB	1003	CYC	C3B-C4B-NB	10.12	114.95	106.78
33	i6	202	CYC	C3B-C4B-NB	10.12	114.95	106.78
33	i8	202	CYC	C3B-C4B-NB	10.09	114.93	106.78
33	k2	201	CYC	C3B-C4B-NB	10.09	114.93	106.78
33	eF	201	CYC	C3B-C4B-NB	10.08	114.92	106.78
33	eC	201	CYC	C3B-C4B-NB	10.08	114.92	106.78
33	iA	202	CYC	C3B-C4B-NB	10.08	114.92	106.78
33	k9	201	CYC	C3B-C4B-NB	10.08	114.92	106.78
33	e8	201	CYC	C3B-C4B-NB	10.08	114.92	106.78
33	i5	202	CYC	C3B-C4B-NB	10.07	114.92	106.78
33	eH	201	CYC	C3B-C4B-NB	10.07	114.91	106.78
33	e3	201	CYC	C3B-C4B-NB	10.07	114.91	106.78
33	iC	202	CYC	C3B-C4B-NB	10.07	114.91	106.78
33	iH	202	CYC	C3B-C4B-NB	10.07	114.91	106.78
33	e5	201	CYC	C3B-C4B-NB	10.07	114.91	106.78
33	NK	101	CYC	C3B-C4B-NB	10.06	114.91	106.78
33	i9	202	CYC	C3B-C4B-NB	10.06	114.91	106.78
33	kA	201	CYC	C3B-C4B-NB	10.06	114.91	106.78
33	e6	201	CYC	C3B-C4B-NB	10.05	114.90	106.78
33	e7	201	CYC	C3B-C4B-NB	10.05	114.90	106.78
33	eA	201	CYC	C3B-C4B-NB	10.05	114.90	106.78
33	i3	202	CYC	C3B-C4B-NB	10.05	114.90	106.78
33	iI	202	CYC	C3B-C4B-NB	10.05	114.90	106.78
33	eJ	201	CYC	C3B-C4B-NB	10.05	114.89	106.78
33	e2	201	CYC	C3B-C4B-NB	10.04	114.89	106.78
33	eI	201	CYC	C3B-C4B-NB	10.04	114.89	106.78
33	e9	201	CYC	C3B-C4B-NB	10.03	114.88	106.78
33	k5	201	CYC	C3B-C4B-NB	10.03	114.88	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	kI	201	CYC	C3B-C4B-NB	10.03	114.88	106.78
33	i7	202	CYC	C3B-C4B-NB	10.02	114.88	106.78
33	kH	201	CYC	C3B-C4B-NB	10.02	114.87	106.78
33	k3	201	CYC	C3B-C4B-NB	10.01	114.86	106.78
33	k8	201	CYC	C3B-C4B-NB	10.00	114.86	106.78
33	k6	201	CYC	C3B-C4B-NB	10.00	114.85	106.78
33	iJ	202	CYC	C3B-C4B-NB	9.99	114.85	106.78
36	h1	101	CLA	C4A-NA-C1A	9.98	111.19	106.71
33	k7	201	CYC	C3B-C4B-NB	9.98	114.84	106.78
33	kC	201	CYC	C3B-C4B-NB	9.98	114.84	106.78
33	kJ	201	CYC	C3B-C4B-NB	9.96	114.82	106.78
33	7G	201	CYC	C3B-C4B-NB	9.95	114.82	106.78
33	cA	201	CYC	C3B-C4B-NB	9.93	114.80	106.78
33	cI	201	CYC	C3B-C4B-NB	9.93	114.80	106.78
36	hD	101	CLA	C4A-NA-C1A	9.93	111.17	106.71
33	7L	201	CYC	C3B-C4B-NB	9.91	114.78	106.78
33	c6	201	CYC	C3B-C4B-NB	9.90	114.78	106.78
33	cH	201	CYC	C3B-C4B-NB	9.90	114.78	106.78
33	c9	201	CYC	C3B-C4B-NB	9.90	114.78	106.78
33	c3	201	CYC	C3B-C4B-NB	9.90	114.77	106.78
33	c2	201	CYC	C3B-C4B-NB	9.89	114.77	106.78
33	cJ	201	CYC	C3B-C4B-NB	9.88	114.76	106.78
33	2G	101	CYC	C3B-C4B-NB	9.87	114.75	106.78
33	cC	201	CYC	C3B-C4B-NB	9.87	114.75	106.78
33	c7	201	CYC	C3B-C4B-NB	9.86	114.75	106.78
36	hE	101	CLA	C4A-NA-C1A	9.86	111.14	106.71
33	c5	201	CYC	C3B-C4B-NB	9.85	114.74	106.78
33	c8	201	CYC	C3B-C4B-NB	9.85	114.74	106.78
33	2L	101	CYC	C3B-C4B-NB	9.84	114.73	106.78
33	3F	101	CYC	C3B-C4B-NB	9.79	114.69	106.78
33	3K	101	CYC	C3B-C4B-NB	9.70	114.62	106.78
33	YF	201	CYC	C3B-C4B-NB	9.69	114.61	106.78
33	dF	201	CYC	C3B-C4B-NB	9.69	114.61	106.78
33	dK	201	CYC	C3B-C4B-NB	9.67	114.59	106.78
33	YK	201	CYC	C3B-C4B-NB	9.66	114.58	106.78
33	hF	201	CYC	C3B-C4B-NB	9.62	114.55	106.78
33	hK	201	CYC	C3B-C4B-NB	9.56	114.50	106.78
33	IK	201	CYC	CMA-C3A-C4A	9.51	139.71	125.06
33	IF	201	CYC	CMA-C3A-C4A	9.50	139.69	125.06
33	LL	201	CYC	CAD-C3D-C2D	9.47	154.45	127.25
33	LG	201	CYC	CAD-C3D-C2D	9.46	154.43	127.25
33	1G	201	CYC	C3B-C4B-NB	9.40	114.38	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	1L	201	CYC	C3B-C4B-NB	9.40	114.37	106.78
38	BE	621	SQD	O9-S-O7	-9.12	82.38	113.95
38	BD	621	SQD	O9-S-O7	-9.11	82.41	113.95
38	B1	622	SQD	O9-S-O7	-9.11	82.41	113.95
45	aE	412	PHO	C6-C7-C8	-9.02	86.78	115.92
45	A1	412	PHO	C6-C7-C8	-9.01	86.81	115.92
45	DE	403	PHO	C11-C10-C8	-8.93	87.06	115.92
43	I1	102	BCR	C24-C23-C22	8.78	139.50	126.23
43	ID	102	BCR	C24-C23-C22	8.75	139.46	126.23
43	IE	102	BCR	C24-C23-C22	8.75	139.45	126.23
36	DD	405	CLA	C4A-NA-C1A	8.74	110.64	106.71
36	dD	405	CLA	C4A-NA-C1A	8.73	110.63	106.71
36	dE	405	CLA	C4A-NA-C1A	8.72	110.63	106.71
36	d1	405	CLA	C4A-NA-C1A	8.71	110.62	106.71
36	DE	405	CLA	C4A-NA-C1A	8.69	110.61	106.71
36	D1	404	CLA	C4A-NA-C1A	8.67	110.61	106.71
33	C4	1002	CYC	CAB-C3B-C4B	8.49	134.78	121.38
33	CB	1002	CYC	CAB-C3B-C4B	8.48	134.78	121.38
45	DD	401	PHO	C6-C7-C8	-8.45	88.61	115.92
33	HL	201	CYC	C4D-CHA-C1A	8.31	138.74	128.81
33	XK	201	CYC	CAB-C3B-C4B	8.30	134.48	121.38
33	XF	201	CYC	CAB-C3B-C4B	8.29	134.47	121.38
33	HG	201	CYC	C4D-CHA-C1A	8.28	138.69	128.81
33	zB	201	CYC	C4D-CHA-C1A	8.24	138.65	128.81
33	z4	201	CYC	C4D-CHA-C1A	8.20	138.61	128.81
33	7L	201	CYC	CMB-C2B-C1B	8.17	134.37	124.17
33	7G	201	CYC	CMB-C2B-C1B	8.15	134.35	124.17
33	1L	201	CYC	CMA-C3A-C4A	8.14	137.60	125.06
33	1G	201	CYC	CMA-C3A-C4A	8.13	137.58	125.06
36	b1	611	CLA	C4A-NA-C1A	8.12	110.36	106.71
36	A1	404	CLA	C4A-NA-C1A	8.06	110.33	106.71
36	AE	404	CLA	C1-O2A-CGA	8.06	142.66	116.11
36	A1	404	CLA	C1-O2A-CGA	8.06	142.66	116.11
36	AD	404	CLA	C1-O2A-CGA	8.06	142.66	116.11
36	bE	611	CLA	C4A-NA-C1A	8.05	110.33	106.71
36	bD	611	CLA	C4A-NA-C1A	8.05	110.32	106.71
45	aD	412	PHO	C6-C7-C8	-8.04	89.93	115.92
33	IG	201	CYC	CMA-C3A-C4A	8.02	137.42	125.06
33	OG	201	CYC	CHB-C4A-NA	-8.00	108.20	124.93
33	XB	201	CYC	CHA-C1A-NA	-7.99	117.74	128.83
33	IL	201	CYC	CMA-C3A-C4A	7.99	137.37	125.06
45	DE	401	PHO	C6-C7-C8	-7.99	90.10	115.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	OL	201	CYC	CHB-C4A-NA	-7.98	108.23	124.93
33	X4	201	CYC	CHA-C1A-NA	-7.98	117.76	128.83
36	AD	404	CLA	C4A-NA-C1A	7.97	110.29	106.71
36	AE	404	CLA	C4A-NA-C1A	7.96	110.29	106.71
36	A1	405	CLA	C4A-NA-C1A	7.92	110.27	106.71
36	AE	405	CLA	C4A-NA-C1A	7.91	110.26	106.71
36	BD	610	CLA	C4A-NA-C1A	7.91	110.26	106.71
36	AD	405	CLA	C4A-NA-C1A	7.90	110.26	106.71
33	3F	102	CYC	CHB-C4A-NA	-7.89	108.43	124.93
36	B1	603	CLA	C4A-NA-C1A	7.88	110.25	106.71
36	B1	610	CLA	C4A-NA-C1A	7.87	110.24	106.71
33	3K	102	CYC	CHB-C4A-NA	-7.86	108.48	124.93
36	BE	610	CLA	C4A-NA-C1A	7.85	110.23	106.71
36	bE	612	CLA	C4A-NA-C1A	7.83	110.22	106.71
36	CE	506	CLA	C4A-NA-C1A	7.82	110.22	106.71
36	CE	504	CLA	C4A-NA-C1A	7.82	110.22	106.71
33	eK	201	CYC	CMA-C3A-C4A	7.81	137.09	125.06
36	BE	603	CLA	C4A-NA-C1A	7.81	110.22	106.71
36	C1	504	CLA	C4A-NA-C1A	7.80	110.21	106.71
33	eF	201	CYC	CMA-C3A-C4A	7.80	137.07	125.06
36	BD	603	CLA	C4A-NA-C1A	7.79	110.21	106.71
33	HG	201	CYC	C1B-NB-C4B	-7.79	100.76	110.67
33	HL	201	CYC	C1B-NB-C4B	-7.79	100.76	110.67
33	BI	301	CYC	CAB-C3B-C4B	7.78	133.68	121.38
36	bD	612	CLA	C4A-NA-C1A	7.78	110.20	106.71
33	B7	301	CYC	CAB-C3B-C4B	7.78	133.67	121.38
36	a1	407	CLA	C4A-NA-C1A	7.77	110.20	106.71
33	BC	301	CYC	CAB-C3B-C4B	7.76	133.64	121.38
33	e8	201	CYC	CAB-C3B-C4B	7.76	133.64	121.38
33	BA	301	CYC	CAB-C3B-C4B	7.76	133.64	121.38
33	g8	202	CYC	CAB-C3B-C4B	7.76	133.64	121.38
33	e3	201	CYC	CAB-C3B-C4B	7.75	133.63	121.38
36	CD	506	CLA	C4A-NA-C1A	7.75	110.19	106.71
33	B3	301	CYC	CAB-C3B-C4B	7.75	133.62	121.38
33	g5	202	CYC	CAB-C3B-C4B	7.75	133.62	121.38
33	gJ	202	CYC	CAB-C3B-C4B	7.75	133.62	121.38
33	gH	202	CYC	CAB-C3B-C4B	7.75	133.62	121.38
33	e5	201	CYC	CAB-C3B-C4B	7.75	133.62	121.38
33	eH	201	CYC	CAB-C3B-C4B	7.74	133.61	121.38
33	eJ	201	CYC	CAB-C3B-C4B	7.74	133.61	121.38
33	e6	201	CYC	CAB-C3B-C4B	7.74	133.61	121.38
33	i2	202	CYC	CAB-C3B-C4B	7.74	133.61	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	eC	201	CYC	CAB-C3B-C4B	7.74	133.60	121.38
36	a1	406	CLA	C4A-NA-C1A	7.74	110.19	106.71
36	b1	612	CLA	C4A-NA-C1A	7.74	110.19	106.71
33	eA	201	CYC	CAB-C3B-C4B	7.74	133.60	121.38
33	B6	301	CYC	CAB-C3B-C4B	7.73	133.60	121.38
33	B9	301	CYC	CAB-C3B-C4B	7.73	133.59	121.38
36	CD	504	CLA	C4A-NA-C1A	7.73	110.18	106.71
36	aE	406	CLA	C4A-NA-C1A	7.73	110.18	106.71
33	e2	201	CYC	CAB-C3B-C4B	7.73	133.59	121.38
36	b1	605	CLA	C4A-NA-C1A	7.73	110.18	106.71
33	B2	301	CYC	CAB-C3B-C4B	7.73	133.58	121.38
33	e7	201	CYC	CAB-C3B-C4B	7.73	133.58	121.38
33	eI	201	CYC	CAB-C3B-C4B	7.73	133.58	121.38
33	e9	201	CYC	CAB-C3B-C4B	7.72	133.58	121.38
36	BE	611	CLA	C4A-NA-C1A	7.72	110.18	106.71
33	i8	202	CYC	CAB-C3B-C4B	7.72	133.57	121.38
36	BD	611	CLA	C4A-NA-C1A	7.72	110.17	106.71
33	k2	201	CYC	CAB-C3B-C4B	7.72	133.57	121.38
33	kI	201	CYC	CAB-C3B-C4B	7.71	133.56	121.38
33	iC	202	CYC	CAB-C3B-C4B	7.71	133.55	121.38
33	i6	202	CYC	CAB-C3B-C4B	7.70	133.54	121.38
33	k5	201	CYC	CAB-C3B-C4B	7.70	133.54	121.38
33	kA	201	CYC	CAB-C3B-C4B	7.70	133.54	121.38
33	iH	202	CYC	CAB-C3B-C4B	7.70	133.54	121.38
33	iJ	202	CYC	CAB-C3B-C4B	7.70	133.53	121.38
33	iA	202	CYC	CAB-C3B-C4B	7.69	133.53	121.38
36	bE	610	CLA	C4A-NA-C1A	7.69	110.16	106.71
33	i9	202	CYC	CAB-C3B-C4B	7.69	133.53	121.38
33	i5	202	CYC	CAB-C3B-C4B	7.69	133.53	121.38
33	k9	201	CYC	CAB-C3B-C4B	7.69	133.53	121.38
33	i3	202	CYC	CAB-C3B-C4B	7.69	133.53	121.38
33	k8	201	CYC	CAB-C3B-C4B	7.69	133.52	121.38
33	kH	201	CYC	CAB-C3B-C4B	7.69	133.52	121.38
36	C1	506	CLA	C4A-NA-C1A	7.69	110.16	106.71
33	c3	201	CYC	CAB-C3B-C4B	7.69	133.52	121.38
36	B1	611	CLA	C4A-NA-C1A	7.68	110.16	106.71
33	k3	201	CYC	CAB-C3B-C4B	7.68	133.52	121.38
33	i7	202	CYC	CAB-C3B-C4B	7.68	133.52	121.38
33	c6	201	CYC	CAB-C3B-C4B	7.68	133.51	121.38
33	k6	201	CYC	CAB-C3B-C4B	7.68	133.51	121.38
36	aD	405	CLA	C4A-NA-C1A	7.68	110.16	106.71
36	aD	406	CLA	C4A-NA-C1A	7.68	110.16	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	kC	201	CYC	CAB-C3B-C4B	7.68	133.51	121.38
33	k7	201	CYC	CAB-C3B-C4B	7.68	133.51	121.38
33	cI	201	CYC	CAB-C3B-C4B	7.68	133.51	121.38
36	bD	605	CLA	C4A-NA-C1A	7.68	110.16	106.71
33	c2	201	CYC	CAB-C3B-C4B	7.67	133.50	121.38
33	iI	202	CYC	CAB-C3B-C4B	7.67	133.50	121.38
33	kJ	201	CYC	CAB-C3B-C4B	7.67	133.50	121.38
33	cH	201	CYC	CAB-C3B-C4B	7.66	133.48	121.38
33	a4	201	CYC	OB-C4B-C3B	-7.66	119.73	128.04
33	V4	201	CYC	CHA-C1A-NA	-7.66	118.20	128.83
36	a1	405	CLA	C4A-NA-C1A	7.66	110.15	106.71
33	cA	201	CYC	CAB-C3B-C4B	7.66	133.47	121.38
33	RL	201	CYC	CAB-C3B-C4B	7.66	133.47	121.38
33	c7	201	CYC	CAB-C3B-C4B	7.66	133.47	121.38
36	aD	404	CLA	C4A-NA-C1A	7.65	110.15	106.71
33	c9	201	CYC	CAB-C3B-C4B	7.65	133.46	121.38
33	RG	201	CYC	CAB-C3B-C4B	7.65	133.46	121.38
33	cJ	201	CYC	CAB-C3B-C4B	7.65	133.46	121.38
36	bE	605	CLA	C4A-NA-C1A	7.64	110.14	106.71
33	c5	201	CYC	CAB-C3B-C4B	7.64	133.45	121.38
33	c8	201	CYC	CAB-C3B-C4B	7.64	133.45	121.38
33	VB	201	CYC	CHA-C1A-NA	-7.64	118.23	128.83
36	bD	610	CLA	C4A-NA-C1A	7.63	110.14	106.71
33	S4	201	CYC	C3B-C4B-NB	7.63	112.94	106.78
36	CE	510	CLA	CMD-C2D-C1D	-7.63	111.26	124.71
33	IK	201	CYC	C3B-C4B-NB	7.63	112.94	106.78
33	cC	201	CYC	CAB-C3B-C4B	7.63	133.43	121.38
33	aB	201	CYC	OB-C4B-C3B	-7.62	119.78	128.04
45	d1	402	PHO	C11-C10-C8	-7.61	91.31	115.92
36	aE	404	CLA	C4A-NA-C1A	7.61	110.13	106.71
36	aE	405	CLA	C4A-NA-C1A	7.61	110.13	106.71
36	c1	511	CLA	C4A-NA-C1A	7.61	110.13	106.71
33	SB	201	CYC	C3B-C4B-NB	7.61	112.92	106.78
36	CD	510	CLA	CMD-C2D-C1D	-7.61	111.31	124.71
36	C1	510	CLA	CMD-C2D-C1D	-7.60	111.32	124.71
33	BB	1001	CYC	CMA-C3A-C4A	7.60	136.76	125.06
33	IF	201	CYC	C3B-C4B-NB	7.59	112.91	106.78
33	B4	1001	CYC	CMA-C3A-C4A	7.59	136.75	125.06
36	BE	609	CLA	C4A-NA-C1A	7.59	110.12	106.71
36	B1	609	CLA	C4A-NA-C1A	7.59	110.12	106.71
36	cD	506	CLA	C4A-NA-C1A	7.58	110.11	106.71
36	BD	609	CLA	C4A-NA-C1A	7.57	110.11	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	b1	610	CLA	C4A-NA-C1A	7.56	110.11	106.71
36	cD	511	CLA	C4A-NA-C1A	7.56	110.10	106.71
36	cE	506	CLA	C4A-NA-C1A	7.55	110.10	106.71
36	cE	511	CLA	C4A-NA-C1A	7.54	110.09	106.71
36	B1	601	CLA	C4A-NA-C1A	7.53	110.09	106.71
36	c1	505	CLA	C4A-NA-C1A	7.53	110.09	106.71
33	PB	201	CYC	CHA-C1A-NA	-7.51	118.41	128.83
33	P4	201	CYC	CHA-C1A-NA	-7.50	118.43	128.83
33	Q4	201	CYC	CHA-C1A-NA	-7.48	118.44	128.83
36	BE	601	CLA	C4A-NA-C1A	7.48	110.07	106.71
33	C4	1001	CYC	CAD-C3D-C2D	7.46	148.68	127.25
33	QB	201	CYC	CHA-C1A-NA	-7.46	118.48	128.83
36	BD	601	CLA	C4A-NA-C1A	7.46	110.06	106.71
33	CB	1001	CYC	CAD-C3D-C2D	7.45	148.65	127.25
36	bE	604	CLA	C4A-NA-C1A	7.42	110.04	106.71
36	BD	602	CLA	C4A-NA-C1A	7.41	110.04	106.71
45	D1	402	PHO	C11-C10-C8	-7.38	92.07	115.92
36	B1	602	CLA	C4A-NA-C1A	7.38	110.02	106.71
36	bD	604	CLA	C4A-NA-C1A	7.37	110.02	106.71
33	PL	201	CYC	CAB-C3B-C4B	7.37	133.02	121.38
36	bE	606	CLA	C4A-NA-C1A	7.37	110.02	106.71
36	BE	602	CLA	C4A-NA-C1A	7.36	110.01	106.71
33	PG	201	CYC	CAB-C3B-C4B	7.35	132.98	121.38
36	b1	614	CLA	C4A-NA-C1A	7.34	110.01	106.71
33	JL	201	CYC	CAB-C3B-C4B	7.34	132.97	121.38
36	c1	509	CLA	CMD-C2D-C1D	-7.34	111.78	124.71
36	cE	512	CLA	C4A-NA-C1A	7.34	110.00	106.71
33	JG	201	CYC	CAB-C3B-C4B	7.34	132.97	121.38
36	CD	513	CLA	C4A-NA-C1A	7.33	110.00	106.71
36	B1	604	CLA	C4A-NA-C1A	7.33	110.00	106.71
36	cD	509	CLA	CMD-C2D-C1D	-7.33	111.80	124.71
36	bD	606	CLA	C4A-NA-C1A	7.32	110.00	106.71
36	C1	513	CLA	C4A-NA-C1A	7.32	110.00	106.71
36	cE	509	CLA	CMD-C2D-C1D	-7.32	111.82	124.71
36	C1	503	CLA	C4A-NA-C1A	7.30	109.99	106.71
33	7G	201	CYC	CMA-C3A-C4A	7.30	136.31	125.06
36	B1	608	CLA	C4A-NA-C1A	7.30	109.99	106.71
36	CD	503	CLA	C4A-NA-C1A	7.30	109.99	106.71
36	CE	503	CLA	C4A-NA-C1A	7.30	109.99	106.71
36	BD	608	CLA	C4A-NA-C1A	7.29	109.98	106.71
36	b1	604	CLA	C4A-NA-C1A	7.29	109.98	106.71
33	7L	201	CYC	CMA-C3A-C4A	7.29	136.28	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	LL	201	CYC	OB-C4B-C3B	-7.28	120.14	128.04
33	LG	201	CYC	OB-C4B-C3B	-7.27	120.15	128.04
36	b1	609	CLA	CMB-C2B-C3B	7.27	138.28	124.68
36	BE	604	CLA	C4A-NA-C1A	7.27	109.97	106.71
36	c1	502	CLA	C4A-NA-C1A	7.26	109.97	106.71
36	BD	613	CLA	C4A-NA-C1A	7.26	109.97	106.71
36	b1	606	CLA	C4A-NA-C1A	7.26	109.97	106.71
36	bD	609	CLA	CMB-C2B-C3B	7.26	138.26	124.68
36	bE	609	CLA	CMB-C2B-C3B	7.25	138.23	124.68
36	BD	604	CLA	C4A-NA-C1A	7.24	109.96	106.71
36	cD	512	CLA	C4A-NA-C1A	7.24	109.96	106.71
36	B1	607	CLA	CMB-C2B-C3B	7.24	138.22	124.68
43	BE	615	BCR	C7-C8-C9	7.23	137.17	126.23
36	c1	507	CLA	C4A-NA-C1A	7.23	109.96	106.71
36	CE	513	CLA	C4A-NA-C1A	7.23	109.96	106.71
36	BE	608	CLA	C4A-NA-C1A	7.23	109.96	106.71
36	BD	607	CLA	CMB-C2B-C3B	7.23	138.20	124.68
36	B1	613	CLA	C4A-NA-C1A	7.23	109.95	106.71
43	bD	616	BCR	C7-C8-C9	7.22	137.15	126.23
43	BD	615	BCR	C7-C8-C9	7.22	137.15	126.23
36	bD	603	CLA	C4A-NA-C1A	7.22	109.95	106.71
43	B1	615	BCR	C7-C8-C9	7.21	137.13	126.23
43	bE	616	BCR	C7-C8-C9	7.21	137.13	126.23
36	BE	607	CLA	CMB-C2B-C3B	7.21	138.16	124.68
36	bE	614	CLA	C4A-NA-C1A	7.21	109.95	106.71
43	b1	616	BCR	C7-C8-C9	7.21	137.12	126.23
36	b1	603	CLA	C4A-NA-C1A	7.20	109.94	106.71
33	b4	101	CYC	CHB-C4A-NA	-7.20	109.87	124.93
36	cE	507	CLA	C4A-NA-C1A	7.20	109.94	106.71
33	bB	101	CYC	CHB-C4A-NA	-7.20	109.88	124.93
36	cE	503	CLA	C4A-NA-C1A	7.20	109.94	106.71
36	cD	503	CLA	C4A-NA-C1A	7.19	109.94	106.71
36	c1	513	CLA	C4A-NA-C1A	7.19	109.94	106.71
36	bE	603	CLA	C4A-NA-C1A	7.19	109.94	106.71
36	bD	614	CLA	C4A-NA-C1A	7.18	109.93	106.71
36	BE	613	CLA	C4A-NA-C1A	7.17	109.93	106.71
36	c1	512	CLA	C4A-NA-C1A	7.15	109.92	106.71
36	cD	507	CLA	C4A-NA-C1A	7.14	109.92	106.71
36	d1	403	CLA	C4A-NA-C1A	7.13	109.91	106.71
33	OG	201	CYC	CHA-C1A-NA	-7.11	118.96	128.83
45	dE	402	PHO	CMA-C3A-C2A	-7.11	85.35	113.99
36	dD	403	CLA	C4A-NA-C1A	7.10	109.90	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	OL	201	CYC	CHA-C1A-NA	-7.09	118.99	128.83
36	cE	513	CLA	C4A-NA-C1A	7.09	109.89	106.71
36	BE	605	CLA	C4A-NA-C1A	7.07	109.89	106.71
36	bE	607	CLA	C4A-NA-C1A	7.05	109.87	106.71
33	NF	101	CYC	CMA-C3A-C4A	7.05	135.91	125.06
33	NK	101	CYC	CMA-C3A-C4A	7.04	135.91	125.06
43	cE	515	BCR	C24-C23-C22	7.03	136.86	126.23
36	dE	403	CLA	C4A-NA-C1A	7.02	109.86	106.71
43	cD	515	BCR	C24-C23-C22	7.02	136.84	126.23
43	c1	515	BCR	C24-C23-C22	7.02	136.84	126.23
36	C1	515	CLA	C4A-NA-C1A	7.02	109.86	106.71
33	4L	201	CYC	CMA-C3A-C4A	7.01	135.87	125.06
33	4G	201	CYC	CMA-C3A-C4A	7.01	135.86	125.06
36	BD	605	CLA	C4A-NA-C1A	7.01	109.86	106.71
36	bD	613	CLA	C4A-NA-C1A	7.00	109.85	106.71
36	bE	613	CLA	C4A-NA-C1A	7.00	109.85	106.71
36	cD	513	CLA	C4A-NA-C1A	6.99	109.85	106.71
33	f2	201	CYC	CAB-C3B-C4B	6.99	132.42	121.38
36	B1	605	CLA	C4A-NA-C1A	6.99	109.85	106.71
33	f5	201	CYC	CAB-C3B-C4B	6.98	132.41	121.38
33	LF	201	CYC	CMA-C3A-C4A	6.98	135.81	125.06
33	f8	201	CYC	CAB-C3B-C4B	6.97	132.39	121.38
33	l9	201	CYC	CAB-C3B-C4B	6.97	132.39	121.38
33	fl	201	CYC	CAB-C3B-C4B	6.97	132.39	121.38
33	l8	201	CYC	CAB-C3B-C4B	6.97	132.39	121.38
33	lJ	201	CYC	CAB-C3B-C4B	6.97	132.39	121.38
33	l7	201	CYC	CAB-C3B-C4B	6.97	132.39	121.38
33	lA	201	CYC	CAB-C3B-C4B	6.97	132.39	121.38
36	CD	515	CLA	C4A-NA-C1A	6.97	109.84	106.71
36	C1	509	CLA	C4A-NA-C1A	6.97	109.84	106.71
33	f7	201	CYC	CAB-C3B-C4B	6.97	132.38	121.38
36	bD	607	CLA	C4A-NA-C1A	6.97	109.84	106.71
33	l2	201	CYC	CAB-C3B-C4B	6.96	132.38	121.38
33	lH	201	CYC	CAB-C3B-C4B	6.96	132.38	121.38
33	lI	201	CYC	CAB-C3B-C4B	6.96	132.37	121.38
33	fH	201	CYC	CAB-C3B-C4B	6.96	132.37	121.38
45	a1	413	PHO	O2D-CGD-CBD	6.96	119.81	111.00
33	B4	1001	CYC	OB-C4B-C3B	-6.96	120.49	128.04
33	gK	201	CYC	CMA-C3A-C4A	6.96	135.78	125.06
33	fC	201	CYC	CAB-C3B-C4B	6.96	132.37	121.38
33	f9	201	CYC	CAB-C3B-C4B	6.96	132.37	121.38
33	hA	201	CYC	CAB-C3B-C4B	6.96	132.37	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	2G	101	CYC	CMA-C3A-C4A	6.95	135.77	125.06
45	DD	403	PHO	C11-C10-C8	-6.95	93.44	115.92
33	h9	201	CYC	CAB-C3B-C4B	6.95	132.36	121.38
33	f3	201	CYC	CAB-C3B-C4B	6.95	132.36	121.38
33	l5	201	CYC	CAB-C3B-C4B	6.95	132.35	121.38
33	fJ	201	CYC	CAB-C3B-C4B	6.95	132.35	121.38
33	CB	1003	CYC	CMA-C3A-C4A	6.95	135.76	125.06
33	BB	1002	CYC	CMA-C3A-C4A	6.95	135.76	125.06
33	C4	1003	CYC	CMA-C3A-C4A	6.95	135.76	125.06
33	fA	201	CYC	CAB-C3B-C4B	6.95	132.35	121.38
33	l6	201	CYC	CAB-C3B-C4B	6.95	132.35	121.38
33	hJ	201	CYC	CAB-C3B-C4B	6.94	132.34	121.38
36	CE	509	CLA	C4A-NA-C1A	6.94	109.83	106.71
36	b1	607	CLA	C4A-NA-C1A	6.94	109.83	106.71
33	B4	1002	CYC	CMA-C3A-C4A	6.94	135.75	125.06
33	h7	201	CYC	CAB-C3B-C4B	6.94	132.34	121.38
33	h3	201	CYC	CAB-C3B-C4B	6.94	132.34	121.38
33	LK	201	CYC	CMA-C3A-C4A	6.94	135.75	125.06
33	l3	201	CYC	CAB-C3B-C4B	6.94	132.34	121.38
33	h8	201	CYC	CAB-C3B-C4B	6.93	132.33	121.38
36	CD	509	CLA	C4A-NA-C1A	6.93	109.82	106.71
33	lC	201	CYC	CAB-C3B-C4B	6.93	132.33	121.38
33	hH	201	CYC	CAB-C3B-C4B	6.93	132.33	121.38
33	hC	201	CYC	CAB-C3B-C4B	6.93	132.33	121.38
33	b7	201	CYC	CAB-C3B-C4B	6.93	132.32	121.38
33	gF	201	CYC	CMA-C3A-C4A	6.93	135.73	125.06
33	2L	101	CYC	CMA-C3A-C4A	6.93	135.73	125.06
33	BB	1001	CYC	OB-C4B-C3B	-6.93	120.52	128.04
33	f6	201	CYC	CAB-C3B-C4B	6.92	132.32	121.38
33	hI	201	CYC	CAB-C3B-C4B	6.92	132.31	121.38
45	D1	402	PHO	C16-C15-C13	-6.92	93.54	115.92
33	d6	201	CYC	CAB-C3B-C4B	6.92	132.31	121.38
33	h5	201	CYC	CAB-C3B-C4B	6.91	132.30	121.38
33	dJ	201	CYC	CAB-C3B-C4B	6.91	132.29	121.38
36	BD	612	CLA	C4A-NA-C1A	6.91	109.81	106.71
33	d9	201	CYC	CAB-C3B-C4B	6.91	132.29	121.38
33	bA	201	CYC	CAB-C3B-C4B	6.91	132.29	121.38
33	bC	201	CYC	CAB-C3B-C4B	6.91	132.29	121.38
33	dC	201	CYC	CAB-C3B-C4B	6.91	132.29	121.38
33	dA	201	CYC	CAB-C3B-C4B	6.91	132.29	121.38
36	b1	613	CLA	C4A-NA-C1A	6.90	109.81	106.71
33	j5	201	CYC	CAB-C3B-C4B	6.90	132.28	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	j6	201	CYC	CAB-C3B-C4B	6.90	132.28	121.38
38	B1	622	SQD	O8-S-C6	6.90	116.74	105.74
33	d8	201	CYC	CAB-C3B-C4B	6.90	132.28	121.38
33	d7	201	CYC	CAB-C3B-C4B	6.90	132.28	121.38
36	B1	612	CLA	C4A-NA-C1A	6.90	109.81	106.71
33	o4	201	CYC	CMA-C3A-C4A	6.90	135.69	125.06
33	d2	201	CYC	CAB-C3B-C4B	6.90	132.28	121.38
33	b9	201	CYC	CAB-C3B-C4B	6.90	132.28	121.38
33	h6	201	CYC	CAB-C3B-C4B	6.90	132.28	121.38
33	h2	201	CYC	CAB-C3B-C4B	6.90	132.28	121.38
33	d5	201	CYC	CAB-C3B-C4B	6.90	132.28	121.38
33	bI	201	CYC	CAB-C3B-C4B	6.90	132.28	121.38
33	dH	201	CYC	CAB-C3B-C4B	6.90	132.27	121.38
33	dI	201	CYC	CAB-C3B-C4B	6.90	132.27	121.38
33	j8	201	CYC	CAB-C3B-C4B	6.90	132.27	121.38
33	bH	201	CYC	CAB-C3B-C4B	6.90	132.27	121.38
33	d3	201	CYC	CAB-C3B-C4B	6.89	132.27	121.38
36	C1	505	CLA	C4A-NA-C1A	6.89	109.81	106.71
33	b3	201	CYC	CAB-C3B-C4B	6.89	132.26	121.38
38	BE	621	SQD	O8-S-C6	6.89	116.72	105.74
36	CE	515	CLA	C4A-NA-C1A	6.89	109.80	106.71
45	aD	412	PHO	O2D-CGD-CBD	6.89	119.72	111.00
38	BD	621	SQD	O8-S-C6	6.89	116.71	105.74
33	bJ	201	CYC	CAB-C3B-C4B	6.89	132.25	121.38
45	aE	412	PHO	O2D-CGD-CBD	6.88	119.72	111.00
45	a1	413	PHO	CBA-CAA-C2A	6.88	133.92	113.81
33	oB	201	CYC	CMA-C3A-C4A	6.88	135.66	125.06
36	CD	505	CLA	C4A-NA-C1A	6.88	109.80	106.71
36	HE	102	CLA	C4A-NA-C1A	6.88	109.80	106.71
33	b5	201	CYC	CAB-C3B-C4B	6.88	132.25	121.38
33	b2	201	CYC	CAB-C3B-C4B	6.88	132.25	121.38
33	j2	201	CYC	CAB-C3B-C4B	6.88	132.25	121.38
33	jI	201	CYC	CAB-C3B-C4B	6.88	132.25	121.38
33	j3	201	CYC	CAB-C3B-C4B	6.88	132.24	121.38
33	b8	201	CYC	CAB-C3B-C4B	6.88	132.24	121.38
33	jH	201	CYC	CAB-C3B-C4B	6.87	132.24	121.38
33	jJ	201	CYC	CAB-C3B-C4B	6.87	132.24	121.38
33	j7	201	CYC	CAB-C3B-C4B	6.87	132.24	121.38
33	jA	201	CYC	CAB-C3B-C4B	6.87	132.23	121.38
33	QL	201	CYC	CMA-C3A-C4A	6.87	135.64	125.06
36	HD	102	CLA	C4A-NA-C1A	6.87	109.79	106.71
45	DE	401	PHO	O2D-CGD-CBD	6.87	119.70	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BE	612	CLA	C4A-NA-C1A	6.87	109.79	106.71
33	sB	201	CYC	OB-C4B-C3B	-6.86	120.59	128.04
33	b6	201	CYC	CAB-C3B-C4B	6.86	132.22	121.38
45	A1	412	PHO	O2D-CGD-CBD	6.85	119.68	111.00
33	QG	201	CYC	CMA-C3A-C4A	6.85	135.62	125.06
33	jC	201	CYC	CAB-C3B-C4B	6.85	132.21	121.38
33	j9	201	CYC	CAB-C3B-C4B	6.85	132.20	121.38
36	hE	102	CLA	C4A-NA-C1A	6.85	109.78	106.71
36	CD	514	CLA	C4A-NA-C1A	6.84	109.78	106.71
36	hD	102	CLA	C4A-NA-C1A	6.84	109.78	106.71
33	HL	201	CYC	CHB-C1B-C2B	-6.83	113.41	126.95
36	CE	514	CLA	C4A-NA-C1A	6.82	109.77	106.71
33	s4	201	CYC	OB-C4B-C3B	-6.82	120.64	128.04
33	HG	201	CYC	CHB-C1B-C2B	-6.82	113.44	126.95
36	C1	514	CLA	C4A-NA-C1A	6.80	109.76	106.71
36	H1	102	CLA	C4A-NA-C1A	6.79	109.76	106.71
36	h1	102	CLA	C4A-NA-C1A	6.77	109.75	106.71
36	d1	406	CLA	C4A-NA-C1A	6.77	109.75	106.71
36	dE	406	CLA	C4A-NA-C1A	6.77	109.75	106.71
33	RB	201	CYC	C3B-C4B-NB	6.77	112.24	106.78
36	C1	508	CLA	C4A-NA-C1A	6.77	109.75	106.71
33	R4	201	CYC	C3B-C4B-NB	6.76	112.24	106.78
36	CE	512	CLA	C4A-NA-C1A	6.76	109.75	106.71
45	a1	413	PHO	CMA-C3A-C2A	-6.76	86.77	113.99
36	CE	505	CLA	C4A-NA-C1A	6.76	109.75	106.71
33	VB	201	CYC	CHB-C4A-NA	-6.76	110.80	124.93
33	V4	201	CYC	CHB-C4A-NA	-6.75	110.81	124.93
33	P4	201	CYC	CHB-C4A-NA	-6.74	110.84	124.93
36	CD	512	CLA	C4A-NA-C1A	6.74	109.73	106.71
36	xE	101	CLA	C4A-NA-C1A	6.74	109.73	106.71
36	cD	514	CLA	C4A-NA-C1A	6.72	109.73	106.71
36	dD	406	CLA	C4A-NA-C1A	6.72	109.73	106.71
36	c1	514	CLA	C4A-NA-C1A	6.72	109.73	106.71
33	PB	201	CYC	CHB-C4A-NA	-6.71	110.89	124.93
45	dE	402	PHO	C11-C10-C8	6.71	148.01	115.86
36	xD	101	CLA	C4A-NA-C1A	6.69	109.71	106.71
36	CD	508	CLA	C4A-NA-C1A	6.68	109.71	106.71
33	LF	201	CYC	CHB-C4A-NA	-6.68	110.97	124.93
33	LL	201	CYC	C1B-NB-C4B	-6.68	102.17	110.67
43	X1	102	BCR	C27-C26-C25	-6.68	113.04	122.73
33	LK	201	CYC	CHB-C4A-NA	-6.67	110.97	124.93
36	cE	514	CLA	C4A-NA-C1A	6.67	109.71	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	i1	101	BCR	C23-C22-C21	-6.67	108.71	118.94
36	CE	508	CLA	C4A-NA-C1A	6.66	109.70	106.71
33	LG	201	CYC	C1B-NB-C4B	-6.66	102.19	110.67
33	LL	201	CYC	C2C-C1C-NC	6.66	114.02	108.27
43	h1	105	BCR	C27-C26-C25	-6.66	113.07	122.73
33	KF	201	CYC	CMA-C3A-C4A	6.65	135.31	125.06
43	hD	105	BCR	C27-C26-C25	-6.65	113.07	122.73
36	C1	512	CLA	C4A-NA-C1A	6.65	109.70	106.71
43	iD	102	BCR	C23-C22-C21	-6.65	108.74	118.94
43	hE	105	BCR	C27-C26-C25	-6.65	113.08	122.73
43	XD	102	BCR	C27-C26-C25	-6.65	113.08	122.73
36	XD	101	CLA	C4A-NA-C1A	6.64	109.69	106.71
33	LG	201	CYC	C2C-C1C-NC	6.63	113.99	108.27
43	iE	102	BCR	C23-C22-C21	-6.63	108.77	118.94
33	b4	101	CYC	CMA-C3A-C4A	6.63	135.27	125.06
33	KK	201	CYC	CMA-C3A-C4A	6.63	135.27	125.06
43	XE	102	BCR	C27-C26-C25	-6.61	113.13	122.73
33	kK	201	CYC	OC-C1C-C2C	-6.60	120.93	126.17
33	bB	101	CYC	CMA-C3A-C4A	6.60	135.22	125.06
36	XE	101	CLA	C4A-NA-C1A	6.60	109.67	106.71
33	bB	101	CYC	CHA-C1A-NA	-6.59	119.68	128.83
33	jK	201	CYC	CMA-C3A-C4A	6.59	135.22	125.06
33	jF	201	CYC	CMA-C3A-C4A	6.59	135.21	125.06
33	b4	101	CYC	CHA-C1A-NA	-6.59	119.69	128.83
36	c1	506	CLA	C4A-NA-C1A	6.58	109.67	106.71
33	C4	1001	CYC	CAB-C3B-C4B	6.58	131.77	121.38
33	CB	1001	CYC	CAB-C3B-C4B	6.58	131.76	121.38
36	x1	101	CLA	C4A-NA-C1A	6.56	109.66	106.71
33	kF	201	CYC	OC-C1C-C2C	-6.56	120.95	126.17
36	X1	101	CLA	C4A-NA-C1A	6.56	109.66	106.71
43	IE	102	BCR	C23-C22-C21	-6.55	108.88	118.94
43	I1	102	BCR	C23-C22-C21	-6.55	108.89	118.94
36	iD	101	CLA	C4A-NA-C1A	6.55	109.65	106.71
36	iE	101	CLA	C4A-NA-C1A	6.55	109.65	106.71
36	CE	507	CLA	C4A-NA-C1A	6.54	109.65	106.71
43	ID	102	BCR	C23-C22-C21	-6.54	108.91	118.94
36	C1	507	CLA	C4A-NA-C1A	6.52	109.64	106.71
36	CD	507	CLA	C4A-NA-C1A	6.52	109.64	106.71
36	BE	606	CLA	C4A-NA-C1A	6.52	109.64	106.71
33	IK	201	CYC	C1B-C2B-C3B	-6.51	101.07	107.87
33	IF	201	CYC	C1B-C2B-C3B	-6.51	101.08	107.87
33	3K	102	CYC	CAA-C2A-C1A	6.51	136.53	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	Q4	201	CYC	CHB-C4A-NA	-6.51	111.32	124.93
33	3F	102	CYC	CAA-C2A-C1A	6.50	136.52	125.01
33	QB	201	CYC	CHB-C4A-NA	-6.49	111.35	124.93
33	AL	201	CYC	CAB-C3B-C4B	6.49	131.62	121.38
33	yB	201	CYC	CAB-C3B-C4B	6.49	131.62	121.38
33	AG	201	CYC	CAB-C3B-C4B	6.48	131.62	121.38
33	TL	201	CYC	OB-C4B-C3B	-6.48	121.00	128.04
33	y4	201	CYC	CAB-C3B-C4B	6.48	131.61	121.38
33	i3	202	CYC	O2A-CGA-CBA	6.47	134.83	114.03
36	b1	608	CLA	C4A-NA-C1A	6.47	109.61	106.71
33	ZF	201	CYC	CMA-C3A-C4A	6.47	135.03	125.06
36	bE	608	CLA	C4A-NA-C1A	6.47	109.61	106.71
33	i9	202	CYC	O2A-CGA-CBA	6.47	134.81	114.03
33	iA	202	CYC	O2A-CGA-CBA	6.47	134.81	114.03
33	TG	201	CYC	OB-C4B-C3B	-6.47	121.02	128.04
33	i7	202	CYC	O2A-CGA-CBA	6.46	134.80	114.03
33	ZK	201	CYC	CMA-C3A-C4A	6.46	135.02	125.06
33	i8	202	CYC	O2A-CGA-CBA	6.46	134.79	114.03
33	s4	201	CYC	CHA-C1A-NA	-6.46	119.87	128.83
33	e6	201	CYC	O2A-CGA-CBA	6.46	134.79	114.03
33	i6	202	CYC	O2A-CGA-CBA	6.46	134.78	114.03
33	iH	202	CYC	O2A-CGA-CBA	6.46	134.78	114.03
36	BD	606	CLA	C4A-NA-C1A	6.46	109.61	106.71
33	iJ	202	CYC	O2A-CGA-CBA	6.46	134.78	114.03
33	i2	202	CYC	O2A-CGA-CBA	6.46	134.78	114.03
33	e7	201	CYC	O2A-CGA-CBA	6.46	134.77	114.03
33	iI	202	CYC	O2A-CGA-CBA	6.46	134.77	114.03
33	sB	201	CYC	CHA-C1A-NA	-6.45	119.87	128.83
36	cD	504	CLA	C4A-NA-C1A	6.45	109.61	106.71
33	eC	201	CYC	O2A-CGA-CBA	6.45	134.76	114.03
45	A1	412	PHO	CMA-C3A-C2A	-6.45	88.02	113.99
33	e3	201	CYC	O2A-CGA-CBA	6.45	134.75	114.03
33	i5	202	CYC	O2A-CGA-CBA	6.45	134.75	114.03
33	IL	201	CYC	CHA-C1A-NA	-6.45	119.89	128.83
43	XE	102	BCR	C16-C17-C18	-6.44	118.11	127.31
33	IG	201	CYC	CHA-C1A-NA	-6.44	119.89	128.83
43	XD	102	BCR	C16-C17-C18	-6.44	118.11	127.31
33	eA	201	CYC	O2A-CGA-CBA	6.44	134.73	114.03
33	e5	201	CYC	O2A-CGA-CBA	6.44	134.73	114.03
33	cC	201	CYC	O2A-CGA-CBA	6.44	134.73	114.03
33	BC	301	CYC	O2A-CGA-CBA	6.44	134.73	114.03
33	eH	201	CYC	O2A-CGA-CBA	6.44	134.73	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	c1	503	CLA	C4A-NA-C1A	6.44	109.60	106.71
36	cE	504	CLA	C4A-NA-C1A	6.44	109.60	106.71
33	B7	301	CYC	O2A-CGA-CBA	6.44	134.72	114.03
33	iC	202	CYC	O2A-CGA-CBA	6.44	134.72	114.03
33	e8	201	CYC	O2A-CGA-CBA	6.44	134.72	114.03
33	eJ	201	CYC	O2A-CGA-CBA	6.44	134.72	114.03
33	kA	201	CYC	O2A-CGA-CBA	6.44	134.71	114.03
43	X1	102	BCR	C16-C17-C18	-6.44	118.12	127.31
33	BI	301	CYC	O2A-CGA-CBA	6.43	134.71	114.03
33	B2	301	CYC	O2A-CGA-CBA	6.43	134.70	114.03
33	k9	201	CYC	O2A-CGA-CBA	6.43	134.70	114.03
33	e9	201	CYC	O2A-CGA-CBA	6.43	134.70	114.03
36	B1	606	CLA	C4A-NA-C1A	6.43	109.60	106.71
33	B9	301	CYC	O2A-CGA-CBA	6.43	134.70	114.03
33	k2	201	CYC	O2A-CGA-CBA	6.43	134.70	114.03
33	NK	101	CYC	OB-C4B-C3B	-6.43	121.06	128.04
33	g5	202	CYC	O2A-CGA-CBA	6.43	134.69	114.03
33	c7	201	CYC	O2A-CGA-CBA	6.43	134.69	114.03
33	eI	201	CYC	O2A-CGA-CBA	6.43	134.69	114.03
33	k3	201	CYC	O2A-CGA-CBA	6.43	134.69	114.03
33	eF	201	CYC	CMB-C2B-C1B	6.43	132.20	124.17
33	c3	201	CYC	O2A-CGA-CBA	6.43	134.69	114.03
33	cA	201	CYC	O2A-CGA-CBA	6.43	134.69	114.03
33	k7	201	CYC	O2A-CGA-CBA	6.43	134.69	114.03
33	gH	202	CYC	O2A-CGA-CBA	6.43	134.69	114.03
33	c5	201	CYC	O2A-CGA-CBA	6.43	134.68	114.03
33	B6	301	CYC	O2A-CGA-CBA	6.43	134.68	114.03
33	c2	201	CYC	O2A-CGA-CBA	6.43	134.68	114.03
33	e2	201	CYC	O2A-CGA-CBA	6.43	134.68	114.03
33	cH	201	CYC	O2A-CGA-CBA	6.42	134.67	114.03
33	c8	201	CYC	O2A-CGA-CBA	6.42	134.67	114.03
33	kJ	201	CYC	O2A-CGA-CBA	6.42	134.67	114.03
33	gJ	202	CYC	O2A-CGA-CBA	6.42	134.67	114.03
33	k5	201	CYC	O2A-CGA-CBA	6.42	134.66	114.03
33	kH	201	CYC	O2A-CGA-CBA	6.42	134.66	114.03
33	cJ	201	CYC	O2A-CGA-CBA	6.42	134.66	114.03
33	c6	201	CYC	O2A-CGA-CBA	6.42	134.66	114.03
33	g8	202	CYC	O2A-CGA-CBA	6.42	134.65	114.03
33	NF	101	CYC	OB-C4B-C3B	-6.42	121.07	128.04
33	c9	201	CYC	O2A-CGA-CBA	6.42	134.65	114.03
33	kC	201	CYC	O2A-CGA-CBA	6.42	134.65	114.03
36	bD	608	CLA	C4A-NA-C1A	6.41	109.59	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	eK	201	CYC	CMB-C2B-C1B	6.41	132.18	124.17
33	BA	301	CYC	O2A-CGA-CBA	6.41	134.64	114.03
33	B3	301	CYC	O2A-CGA-CBA	6.41	134.64	114.03
33	kI	201	CYC	O2A-CGA-CBA	6.41	134.64	114.03
33	cI	201	CYC	O2A-CGA-CBA	6.41	134.64	114.03
33	k6	201	CYC	O2A-CGA-CBA	6.41	134.62	114.03
33	k8	201	CYC	O2A-CGA-CBA	6.41	134.62	114.03
36	D1	405	CLA	C4A-NA-C1A	6.40	109.58	106.71
43	h1	105	BCR	C16-C17-C18	-6.40	118.18	127.31
43	hD	105	BCR	C16-C17-C18	-6.40	118.18	127.31
33	4G	201	CYC	OC-C1C-C2C	-6.39	121.09	126.17
33	4L	201	CYC	OC-C1C-C2C	-6.39	121.09	126.17
43	hE	105	BCR	C16-C17-C18	-6.39	118.19	127.31
36	DD	406	CLA	C4A-NA-C1A	6.38	109.57	106.71
33	RB	201	CYC	CHB-C4A-NA	-6.35	111.64	124.93
33	V4	201	CYC	OB-C4B-C3B	-6.35	121.15	128.04
33	R4	201	CYC	CHB-C4A-NA	-6.35	111.65	124.93
33	3K	101	CYC	OC-C1C-C2C	-6.35	121.12	126.17
36	DE	406	CLA	C4A-NA-C1A	6.35	109.56	106.71
33	b3	201	CYC	CHA-C1A-NA	-6.34	120.04	128.83
33	3F	101	CYC	OC-C1C-C2C	-6.34	121.14	126.17
33	b2	201	CYC	CHA-C1A-NA	-6.34	120.04	128.83
33	b7	201	CYC	CHA-C1A-NA	-6.33	120.04	128.83
45	a1	413	PHO	C4A-C3A-C2A	-6.33	96.81	102.84
33	d3	201	CYC	CHA-C1A-NA	-6.33	120.05	128.83
33	d8	201	CYC	CHA-C1A-NA	-6.33	120.05	128.83
33	f9	201	CYC	CHA-C1A-NA	-6.33	120.05	128.83
33	b8	201	CYC	CHA-C1A-NA	-6.33	120.05	128.83
36	c1	504	CLA	C4A-NA-C1A	6.32	109.55	106.71
33	f7	201	CYC	CHA-C1A-NA	-6.31	120.07	128.83
33	bC	201	CYC	CHA-C1A-NA	-6.31	120.07	128.83
33	LF	201	CYC	OB-C4B-C3B	-6.31	121.19	128.04
33	b5	201	CYC	CHA-C1A-NA	-6.31	120.07	128.83
33	bH	201	CYC	CHA-C1A-NA	-6.31	120.07	128.83
33	j2	201	CYC	CHA-C1A-NA	-6.31	120.07	128.83
33	d2	201	CYC	CHA-C1A-NA	-6.31	120.08	128.83
33	bA	201	CYC	CHA-C1A-NA	-6.31	120.08	128.83
33	bJ	201	CYC	CHA-C1A-NA	-6.31	120.08	128.83
33	l8	201	CYC	CHA-C1A-NA	-6.31	120.08	128.83
33	f6	201	CYC	CHA-C1A-NA	-6.31	120.08	128.83
33	bI	201	CYC	CHA-C1A-NA	-6.30	120.08	128.83
33	dJ	201	CYC	CHA-C1A-NA	-6.30	120.08	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	VB	201	CYC	OB-C4B-C3B	-6.30	121.20	128.04
33	l2	201	CYC	CHA-C1A-NA	-6.30	120.08	128.83
33	aK	201	CYC	CHA-C1A-NA	-6.30	120.08	128.83
33	b9	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
33	dH	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
33	BB	1003	CYC	OB-C4B-C3B	-6.30	121.20	128.04
33	d5	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
33	l5	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
33	fA	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
33	aF	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
33	d9	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
33	d6	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
33	dC	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
33	fH	201	CYC	CHA-C1A-NA	-6.30	120.09	128.83
33	B4	1003	CYC	OB-C4B-C3B	-6.30	121.21	128.04
33	f3	201	CYC	CHA-C1A-NA	-6.29	120.10	128.83
33	jA	201	CYC	CHA-C1A-NA	-6.29	120.10	128.83
33	jC	201	CYC	CHA-C1A-NA	-6.29	120.10	128.83
33	l9	201	CYC	CHA-C1A-NA	-6.29	120.10	128.83
33	l3	201	CYC	CHA-C1A-NA	-6.29	120.10	128.83
33	b6	201	CYC	CHA-C1A-NA	-6.29	120.11	128.83
33	dA	201	CYC	CHA-C1A-NA	-6.29	120.11	128.83
33	lH	201	CYC	CHA-C1A-NA	-6.29	120.11	128.83
33	fC	201	CYC	CHA-C1A-NA	-6.29	120.11	128.83
33	fI	201	CYC	CHA-C1A-NA	-6.28	120.11	128.83
33	f8	201	CYC	CHA-C1A-NA	-6.28	120.11	128.83
33	dI	201	CYC	CHA-C1A-NA	-6.28	120.11	128.83
33	jI	201	CYC	CHA-C1A-NA	-6.28	120.11	128.83
33	j5	201	CYC	CHA-C1A-NA	-6.28	120.11	128.83
33	f5	201	CYC	CHA-C1A-NA	-6.28	120.12	128.83
33	d7	201	CYC	CHA-C1A-NA	-6.28	120.12	128.83
33	l7	201	CYC	CHA-C1A-NA	-6.28	120.12	128.83
33	j8	201	CYC	CHA-C1A-NA	-6.28	120.12	128.83
33	l6	201	CYC	CHA-C1A-NA	-6.28	120.12	128.83
33	fJ	201	CYC	CHA-C1A-NA	-6.28	120.12	128.83
33	LK	201	CYC	OB-C4B-C3B	-6.28	121.23	128.04
33	j9	201	CYC	CHA-C1A-NA	-6.28	120.12	128.83
33	jH	201	CYC	CHA-C1A-NA	-6.27	120.13	128.83
33	LL	201	CYC	C2B-C1B-NB	6.27	116.17	106.99
33	j6	201	CYC	CHA-C1A-NA	-6.27	120.13	128.83
33	CB	1003	CYC	CHB-C4A-NA	-6.27	111.82	124.93
33	lC	201	CYC	CHA-C1A-NA	-6.27	120.13	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	lJ	201	CYC	CHA-C1A-NA	-6.27	120.13	128.83
33	lA	201	CYC	CHA-C1A-NA	-6.27	120.14	128.83
33	lI	201	CYC	CHA-C1A-NA	-6.26	120.14	128.83
33	j7	201	CYC	CHA-C1A-NA	-6.26	120.14	128.83
33	C4	1003	CYC	CHB-C4A-NA	-6.26	111.84	124.93
33	4G	201	CYC	C4D-CHA-C1A	6.26	136.28	128.81
33	4L	201	CYC	C4D-CHA-C1A	6.25	136.28	128.81
33	jJ	201	CYC	CHA-C1A-NA	-6.25	120.15	128.83
33	eK	201	CYC	CHB-C4A-NA	-6.25	111.85	124.93
33	h8	201	CYC	CHA-C1A-NA	-6.25	120.15	128.83
33	f2	201	CYC	CHA-C1A-NA	-6.25	120.15	128.83
33	h5	201	CYC	CHA-C1A-NA	-6.25	120.15	128.83
33	LG	201	CYC	C2B-C1B-NB	6.25	116.14	106.99
33	3F	101	CYC	CMA-C3A-C4A	6.25	134.69	125.06
33	KK	201	CYC	C2C-C3C-C4C	-6.25	91.98	101.34
33	hJ	201	CYC	CHA-C1A-NA	-6.25	120.16	128.83
33	eF	201	CYC	CHB-C4A-NA	-6.25	111.87	124.93
33	h7	201	CYC	CHA-C1A-NA	-6.24	120.17	128.83
33	h3	201	CYC	CHA-C1A-NA	-6.24	120.17	128.83
33	v4	201	CYC	CAB-C3B-C4B	6.24	131.24	121.38
43	IE	102	BCR	C3-C4-C5	-6.24	102.93	114.08
33	cF	201	CYC	CMA-C3A-C4A	6.24	134.68	125.06
33	BB	1002	CYC	CHB-C4A-NA	-6.24	111.88	124.93
33	hC	201	CYC	CHA-C1A-NA	-6.24	120.17	128.83
33	hI	201	CYC	CHA-C1A-NA	-6.24	120.18	128.83
43	I1	102	BCR	C3-C4-C5	-6.24	102.94	114.08
33	h2	201	CYC	CHA-C1A-NA	-6.24	120.18	128.83
33	j3	201	CYC	CHA-C1A-NA	-6.23	120.18	128.83
33	3K	101	CYC	CMA-C3A-C4A	6.23	134.66	125.06
45	DD	401	PHO	O2D-CGD-CBD	6.23	118.89	111.00
43	ID	102	BCR	C3-C4-C5	-6.23	102.95	114.08
33	B4	1002	CYC	CHB-C4A-NA	-6.23	111.90	124.93
33	cK	201	CYC	CMA-C3A-C4A	6.23	134.66	125.06
33	h6	201	CYC	CHA-C1A-NA	-6.23	120.19	128.83
33	bF	201	CYC	CMA-C3A-C4A	6.23	134.65	125.06
33	vB	201	CYC	CAB-C3B-C4B	6.23	131.22	121.38
33	bK	201	CYC	CMA-C3A-C4A	6.23	134.65	125.06
36	BE	607	CLA	C4A-NA-C1A	6.23	109.50	106.71
33	KK	201	CYC	OB-C4B-C3B	-6.22	121.28	128.04
33	hH	201	CYC	CHA-C1A-NA	-6.22	120.20	128.83
33	KF	201	CYC	C2C-C3C-C4C	-6.22	92.02	101.34
36	cE	508	CLA	C4A-NA-C1A	6.22	109.50	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	i7	202	CYC	CHA-C1A-NA	-6.22	120.20	128.83
33	KF	201	CYC	OB-C4B-C3B	-6.22	121.29	128.04
43	c1	515	BCR	C28-C27-C26	-6.21	102.98	114.08
33	JF	201	CYC	OB-C4B-C3B	-6.21	121.30	128.04
33	h9	201	CYC	CHA-C1A-NA	-6.20	120.22	128.83
36	B1	607	CLA	C4A-NA-C1A	6.20	109.50	106.71
43	cD	515	BCR	C28-C27-C26	-6.20	103.00	114.08
33	hA	201	CYC	CHA-C1A-NA	-6.20	120.23	128.83
33	CB	1001	CYC	CBD-CAD-C3D	6.20	123.20	112.62
45	DD	403	PHO	CMA-C3A-C2A	-6.20	89.04	113.99
43	cE	515	BCR	C28-C27-C26	-6.19	103.02	114.08
33	C4	1001	CYC	CBD-CAD-C3D	6.19	123.19	112.62
33	iC	202	CYC	CHA-C1A-NA	-6.19	120.24	128.83
36	BD	607	CLA	C4A-NA-C1A	6.19	109.49	106.71
36	cD	505	CLA	C4A-NA-C1A	6.19	109.49	106.71
33	BI	301	CYC	CHA-C1A-NA	-6.19	120.25	128.83
33	i8	202	CYC	CHA-C1A-NA	-6.19	120.25	128.83
33	iI	202	CYC	CHA-C1A-NA	-6.19	120.25	128.83
33	JK	201	CYC	OB-C4B-C3B	-6.18	121.33	128.04
33	eI	201	CYC	CHA-C1A-NA	-6.18	120.25	128.83
33	i2	202	CYC	CHA-C1A-NA	-6.18	120.25	128.83
33	e8	201	CYC	CHA-C1A-NA	-6.18	120.26	128.83
36	cE	505	CLA	C4A-NA-C1A	6.18	109.48	106.71
33	BA	301	CYC	CHA-C1A-NA	-6.18	120.26	128.83
33	iH	202	CYC	CHA-C1A-NA	-6.18	120.26	128.83
36	cD	508	CLA	C4A-NA-C1A	6.17	109.48	106.71
33	e3	201	CYC	CHA-C1A-NA	-6.17	120.27	128.83
33	B9	301	CYC	CHA-C1A-NA	-6.17	120.27	128.83
36	c1	508	CLA	C4A-NA-C1A	6.17	109.48	106.71
33	gJ	202	CYC	CHA-C1A-NA	-6.17	120.27	128.83
33	c9	201	CYC	CHA-C1A-NA	-6.17	120.27	128.83
33	i6	202	CYC	CHA-C1A-NA	-6.17	120.27	128.83
33	eH	201	CYC	CHA-C1A-NA	-6.16	120.28	128.83
33	g8	202	CYC	CHA-C1A-NA	-6.16	120.28	128.83
33	IF	201	CYC	CMB-C2B-C1B	6.16	131.87	124.17
33	i9	202	CYC	CHA-C1A-NA	-6.16	120.28	128.83
33	1L	201	CYC	CHB-C4A-NA	-6.16	112.04	124.93
33	c5	201	CYC	CHA-C1A-NA	-6.16	120.28	128.83
33	B6	301	CYC	CHA-C1A-NA	-6.16	120.28	128.83
33	e6	201	CYC	CHA-C1A-NA	-6.16	120.28	128.83
33	3K	102	CYC	OB-C4B-C3B	-6.16	121.36	128.04
33	BC	301	CYC	CHA-C1A-NA	-6.16	120.28	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	e9	201	CYC	CHA-C1A-NA	-6.16	120.28	128.83
33	gH	202	CYC	CHA-C1A-NA	-6.16	120.29	128.83
33	e7	201	CYC	CHA-C1A-NA	-6.16	120.29	128.83
33	e5	201	CYC	CHA-C1A-NA	-6.16	120.29	128.83
33	cI	201	CYC	CHA-C1A-NA	-6.16	120.29	128.83
33	c6	201	CYC	CHA-C1A-NA	-6.16	120.29	128.83
33	i3	202	CYC	CHA-C1A-NA	-6.15	120.29	128.83
33	g5	202	CYC	CHA-C1A-NA	-6.15	120.29	128.83
33	B7	301	CYC	CHA-C1A-NA	-6.15	120.29	128.83
33	c8	201	CYC	CHA-C1A-NA	-6.15	120.29	128.83
33	cH	201	CYC	CHA-C1A-NA	-6.15	120.29	128.83
33	cA	201	CYC	CHA-C1A-NA	-6.15	120.30	128.83
33	kI	201	CYC	CHA-C1A-NA	-6.15	120.30	128.83
33	e2	201	CYC	CHA-C1A-NA	-6.15	120.30	128.83
33	B3	301	CYC	CHA-C1A-NA	-6.15	120.30	128.83
33	c7	201	CYC	CHA-C1A-NA	-6.15	120.30	128.83
33	iA	202	CYC	CHA-C1A-NA	-6.15	120.30	128.83
33	cC	201	CYC	CHA-C1A-NA	-6.15	120.30	128.83
33	eC	201	CYC	CHA-C1A-NA	-6.15	120.30	128.83
33	eJ	201	CYC	CHA-C1A-NA	-6.15	120.30	128.83
33	IK	201	CYC	CMB-C2B-C1B	6.14	131.84	124.17
33	RB	201	CYC	CHB-C1B-NB	-6.14	112.87	126.06
36	I1	101	CLA	C4A-NA-C1A	6.14	109.47	106.71
33	iJ	202	CYC	CHA-C1A-NA	-6.14	120.31	128.83
33	c2	201	CYC	CHA-C1A-NA	-6.14	120.31	128.83
33	i5	202	CYC	CHA-C1A-NA	-6.14	120.31	128.83
33	1G	201	CYC	CHB-C4A-NA	-6.14	112.09	124.93
33	c3	201	CYC	CHA-C1A-NA	-6.14	120.31	128.83
33	eA	201	CYC	CHA-C1A-NA	-6.14	120.31	128.83
33	R4	201	CYC	CHB-C1B-NB	-6.14	112.89	126.06
33	k3	201	CYC	CHA-C1A-NA	-6.13	120.32	128.83
33	k8	201	CYC	CHA-C1A-NA	-6.13	120.32	128.83
33	3F	102	CYC	OB-C4B-C3B	-6.13	121.39	128.04
33	kC	201	CYC	CHA-C1A-NA	-6.13	120.32	128.83
33	kH	201	CYC	CHA-C1A-NA	-6.13	120.33	128.83
33	kA	201	CYC	CHA-C1A-NA	-6.13	120.33	128.83
33	NL	201	CYC	CHB-C4A-NA	-6.12	112.12	124.93
33	k6	201	CYC	CHA-C1A-NA	-6.12	120.33	128.83
33	cJ	201	CYC	CHA-C1A-NA	-6.12	120.33	128.83
33	HL	201	CYC	C2B-C1B-NB	6.12	115.95	106.99
33	NG	201	CYC	CHB-C4A-NA	-6.12	112.14	124.93
33	k7	201	CYC	CHA-C1A-NA	-6.12	120.34	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	B1	615	BCR	C15-C14-C13	-6.11	118.59	127.31
43	BD	615	BCR	C15-C14-C13	-6.11	118.59	127.31
33	9F	201	CYC	OB-C4B-C3B	-6.11	121.41	128.04
33	k5	201	CYC	CHA-C1A-NA	-6.11	120.36	128.83
33	kJ	201	CYC	CHA-C1A-NA	-6.11	120.36	128.83
36	IE	101	CLA	C4A-NA-C1A	6.11	109.45	106.71
33	B2	301	CYC	CHA-C1A-NA	-6.11	120.36	128.83
33	k2	201	CYC	CHA-C1A-NA	-6.10	120.36	128.83
33	HG	201	CYC	C2B-C1B-NB	6.10	115.92	106.99
33	k9	201	CYC	CHA-C1A-NA	-6.10	120.36	128.83
36	ID	101	CLA	C4A-NA-C1A	6.10	109.45	106.71
33	bK	201	CYC	CHB-C4A-NA	-6.09	112.20	124.93
33	9K	201	CYC	OB-C4B-C3B	-6.09	121.43	128.04
33	7G	201	CYC	C4D-CHA-C1A	6.08	136.07	128.81
43	BE	615	BCR	C15-C14-C13	-6.08	118.64	127.31
33	WB	201	CYC	C4D-CHA-C1A	6.07	136.06	128.81
45	DE	401	PHO	CMA-C3A-C2A	-6.07	89.54	113.99
33	bF	201	CYC	CHB-C4A-NA	-6.07	112.23	124.93
33	7L	201	CYC	C4D-CHA-C1A	6.07	136.06	128.81
33	JF	201	CYC	C4D-CHA-C1A	6.07	136.06	128.81
43	bD	616	BCR	C15-C14-C13	-6.07	118.65	127.31
47	V1	201	HEM	CHD-C1D-ND	6.07	131.02	124.43
33	JK	201	CYC	C4D-CHA-C1A	6.06	136.04	128.81
47	VD	201	HEM	CHD-C1D-ND	6.05	131.01	124.43
33	cF	201	CYC	OB-C4B-C3B	-6.05	121.47	128.04
47	VE	201	HEM	CHD-C1D-ND	6.05	131.00	124.43
33	OL	201	CYC	CMA-C3A-C4A	6.05	134.38	125.06
33	W4	201	CYC	C4D-CHA-C1A	6.05	136.03	128.81
47	v1	201	HEM	CHD-C1D-ND	6.04	131.00	124.43
43	bE	616	BCR	C15-C14-C13	-6.04	118.69	127.31
43	b1	616	BCR	C15-C14-C13	-6.03	118.70	127.31
33	IF	201	CYC	CHB-C4A-NA	-6.03	112.32	124.93
33	IK	201	CYC	CHB-C4A-NA	-6.03	112.32	124.93
33	OG	201	CYC	CMA-C3A-C4A	6.03	134.34	125.06
45	DE	403	PHO	C16-C15-C13	-6.02	96.45	115.92
47	vD	201	HEM	CHD-C1D-ND	6.02	130.97	124.43
36	C1	506	CLA	CMB-C2B-C1B	-6.01	119.22	128.46
33	cK	201	CYC	OB-C4B-C3B	-6.01	121.51	128.04
47	vE	201	HEM	CHD-C1D-ND	6.01	130.96	124.43
33	C4	1001	CYC	CHA-C1A-C2A	6.01	139.20	125.32
36	CD	506	CLA	CMB-C2B-C1B	-6.00	119.24	128.46
33	mK	201	CYC	CMA-C3A-C4A	6.00	134.30	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	mF	201	CYC	CMA-C3A-C4A	5.99	134.30	125.06
33	CB	1001	CYC	CHA-C1A-C2A	5.99	139.17	125.32
43	C1	516	BCR	C28-C27-C26	-5.98	103.41	114.08
36	CE	506	CLA	CMB-C2B-C1B	-5.97	119.28	128.46
43	CD	516	BCR	C28-C27-C26	-5.97	103.42	114.08
33	VG	201	CYC	CMA-C3A-C4A	5.96	134.25	125.06
33	kF	201	CYC	OB-C4B-C3B	-5.96	121.57	128.04
36	bE	609	CLA	C4A-NA-C1A	5.96	109.39	106.71
43	CE	516	BCR	C28-C27-C26	-5.96	103.44	114.08
33	RL	201	CYC	CHA-C1A-NA	-5.96	120.56	128.83
33	mK	201	CYC	CAC-C3C-C2C	-5.96	99.38	114.26
33	mF	201	CYC	CAC-C3C-C2C	-5.95	99.38	114.26
33	5G	201	CYC	CMA-C3A-C4A	5.95	134.22	125.06
33	VL	201	CYC	CAC-C3C-C2C	-5.95	99.40	114.26
33	WB	201	CYC	OB-C4B-C3B	-5.95	121.59	128.04
33	W4	201	CYC	OB-C4B-C3B	-5.95	121.59	128.04
33	5L	201	CYC	CMA-C3A-C4A	5.95	134.22	125.06
33	VG	201	CYC	CAC-C3C-C2C	-5.94	99.42	114.26
33	RG	201	CYC	CHA-C1A-NA	-5.94	120.59	128.83
33	kK	201	CYC	OB-C4B-C3B	-5.94	121.59	128.04
33	VL	201	CYC	CMA-C3A-C4A	5.94	134.21	125.06
33	X4	201	CYC	OB-C4B-C3B	-5.94	121.60	128.04
33	XB	201	CYC	OB-C4B-C3B	-5.94	121.60	128.04
33	aK	201	CYC	OB-C4B-C3B	-5.93	121.60	128.04
33	aF	201	CYC	OB-C4B-C3B	-5.93	121.60	128.04
33	b4	101	CYC	OB-C4B-C3B	-5.92	121.61	128.04
33	mK	201	CYC	OB-C4B-C3B	-5.92	121.61	128.04
33	mF	201	CYC	OB-C4B-C3B	-5.91	121.62	128.04
43	IE	102	BCR	C37-C22-C23	5.91	127.39	118.08
33	fF	201	CYC	CAB-C3B-C4B	5.91	130.71	121.38
33	VL	201	CYC	OB-C4B-C3B	-5.90	121.64	128.04
33	VG	201	CYC	OB-C4B-C3B	-5.89	121.65	128.04
45	aD	412	PHO	CMA-C3A-C2A	-5.89	90.28	113.99
33	fK	201	CYC	CAB-C3B-C4B	5.89	130.68	121.38
43	I1	102	BCR	C37-C22-C23	5.89	127.35	118.08
33	LG	201	CYC	CBD-CAD-C3D	5.88	122.66	112.62
43	ID	102	BCR	C37-C22-C23	5.88	127.35	118.08
33	LL	201	CYC	CBD-CAD-C3D	5.88	122.65	112.62
36	bD	609	CLA	C4A-NA-C1A	5.87	109.34	106.71
33	B4	1003	CYC	C1A-C2A-C3A	-5.87	100.29	106.78
33	BB	1003	CYC	C1A-C2A-C3A	-5.87	100.29	106.78
43	bE	616	BCR	C8-C9-C10	-5.87	109.94	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	dD	402	PHO	CMA-C3A-C2A	-5.86	90.42	113.99
33	bB	101	CYC	OB-C4B-C3B	-5.85	121.69	128.04
43	b1	616	BCR	C8-C9-C10	-5.85	109.97	118.94
33	XF	201	CYC	CMA-C3A-C4A	5.85	134.07	125.06
43	bD	616	BCR	C8-C9-C10	-5.84	109.98	118.94
36	b1	609	CLA	C4A-NA-C1A	5.84	109.33	106.71
43	iD	102	BCR	C21-C20-C19	-5.84	105.00	123.22
43	iE	102	BCR	C21-C20-C19	-5.84	105.00	123.22
33	XK	201	CYC	CMA-C3A-C4A	5.84	134.05	125.06
33	w4	201	CYC	CAB-C3B-C4B	5.84	130.60	121.38
43	i1	101	BCR	C21-C20-C19	-5.84	105.00	123.22
33	jF	201	CYC	CAB-C3B-C4B	5.84	130.60	121.38
33	wB	201	CYC	CAB-C3B-C4B	5.83	130.59	121.38
33	3F	102	CYC	C2B-C1B-NB	5.82	115.52	106.99
33	jK	201	CYC	CAB-C3B-C4B	5.82	130.58	121.38
43	BD	615	BCR	C8-C9-C10	-5.82	110.01	118.94
43	B1	615	BCR	C8-C9-C10	-5.82	110.01	118.94
33	6G	201	CYC	CMA-C3A-C4A	5.82	134.02	125.06
33	LG	201	CYC	CAB-C3B-C4B	5.81	130.56	121.38
45	DE	403	PHO	C11-C12-C13	5.81	134.70	115.92
36	c1	509	CLA	CMD-C2D-C3D	5.81	140.98	127.61
33	3K	102	CYC	C2B-C1B-NB	5.81	115.49	106.99
43	BE	615	BCR	C8-C9-C10	-5.80	110.03	118.94
33	6L	201	CYC	CMA-C3A-C4A	5.80	134.00	125.06
33	LL	201	CYC	CAB-C3B-C4B	5.80	130.54	121.38
45	DE	403	PHO	CMA-C3A-C2A	-5.80	90.65	113.99
43	b1	616	BCR	C34-C9-C8	5.79	127.20	118.08
36	cD	509	CLA	CMD-C2D-C3D	5.79	140.93	127.61
33	eF	201	CYC	CAB-C3B-C4B	5.79	130.52	121.38
45	DD	403	PHO	O2D-CGD-CBD	5.78	118.32	111.00
36	cE	509	CLA	CMD-C2D-C3D	5.78	140.91	127.61
43	bE	616	BCR	C34-C9-C8	5.78	127.18	118.08
33	4L	201	CYC	OB-C4B-C3B	-5.78	121.77	128.04
33	eK	201	CYC	CAB-C3B-C4B	5.78	130.50	121.38
43	bD	616	BCR	C34-C9-C8	5.77	127.17	118.08
45	D1	402	PHO	O2D-CGD-CBD	5.77	118.31	111.00
45	DE	403	PHO	O2D-CGD-CBD	5.76	118.29	111.00
36	CD	507	CLA	CAA-C2A-C3A	-5.76	97.02	112.78
33	ML	201	CYC	CHB-C4A-NA	-5.76	112.89	124.93
33	ZF	201	CYC	CAB-C3B-C4B	5.75	130.46	121.38
33	mF	201	CYC	CHD-C4C-NC	5.74	132.03	125.20
33	MG	201	CYC	CHB-C4A-NA	-5.74	112.92	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	4G	201	CYC	OB-C4B-C3B	-5.74	121.81	128.04
36	CE	507	CLA	CAA-C2A-C3A	-5.74	97.06	112.78
33	VG	201	CYC	CHD-C4C-NC	5.74	132.03	125.20
36	c1	505	CLA	CMB-C2B-C1B	-5.74	119.64	128.46
43	B1	615	BCR	C34-C9-C8	5.74	127.11	118.08
33	mK	201	CYC	CHD-C4C-NC	5.74	132.02	125.20
33	ZK	201	CYC	CAB-C3B-C4B	5.73	130.43	121.38
36	C1	507	CLA	CAA-C2A-C3A	-5.73	97.10	112.78
43	BD	615	BCR	C34-C9-C8	5.73	127.10	118.08
47	VD	201	HEM	CHC-C4B-NB	5.72	130.65	124.43
33	VL	201	CYC	CHD-C4C-NC	5.72	132.01	125.20
43	BE	615	BCR	C34-C9-C8	5.72	127.08	118.08
33	GG	201	CYC	CAB-C3B-C4B	5.71	130.40	121.38
33	fF	201	CYC	CHB-C4A-NA	-5.71	112.99	124.93
36	bD	608	CLA	CMB-C2B-C1B	-5.71	119.69	128.46
47	V1	201	HEM	CHC-C4B-NB	5.70	130.63	124.43
36	cD	506	CLA	CMB-C2B-C1B	-5.70	119.70	128.46
36	BE	606	CLA	CMB-C2B-C1B	-5.70	119.70	128.46
33	CB	1001	CYC	C1A-C2A-C3A	-5.70	100.47	106.78
33	GL	201	CYC	CAB-C3B-C4B	5.70	130.38	121.38
36	b1	608	CLA	CMB-C2B-C1B	-5.70	119.70	128.46
36	cE	506	CLA	CMB-C2B-C1B	-5.70	119.70	128.46
36	bE	608	CLA	CMB-C2B-C1B	-5.69	119.72	128.46
36	bE	612	CLA	CMB-C2B-C1B	-5.69	119.72	128.46
47	VE	201	HEM	CHC-C4B-NB	5.69	130.61	124.43
43	iD	102	BCR	C37-C22-C23	5.69	127.04	118.08
36	b1	612	CLA	CMB-C2B-C1B	-5.69	119.72	128.46
36	bD	612	CLA	CMB-C2B-C1B	-5.69	119.72	128.46
33	C4	1001	CYC	C1A-C2A-C3A	-5.68	100.49	106.78
33	LG	201	CYC	CHA-C1A-C2A	-5.68	112.19	125.32
33	fK	201	CYC	CHB-C4A-NA	-5.68	113.05	124.93
43	i1	101	BCR	C37-C22-C23	5.68	127.03	118.08
33	nF	201	CYC	CAB-C3B-C4B	5.68	130.35	121.38
36	BE	611	CLA	CMB-C2B-C1B	-5.68	119.74	128.46
33	3F	101	CYC	CHD-C4C-NC	5.68	131.95	125.20
43	iE	102	BCR	C37-C22-C23	5.67	127.02	118.08
36	BD	606	CLA	CMB-C2B-C1B	-5.67	119.75	128.46
47	v1	201	HEM	CHC-C4B-NB	5.67	130.59	124.43
36	BD	611	CLA	CMB-C2B-C1B	-5.67	119.75	128.46
33	nK	201	CYC	CAB-C3B-C4B	5.67	130.33	121.38
33	3K	101	CYC	CHD-C4C-NC	5.67	131.94	125.20
33	cK	201	CYC	CHB-C4A-NA	-5.67	113.08	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	B7	301	CYC	CMA-C3A-C4A	5.67	133.79	125.06
33	LL	201	CYC	CHA-C1A-C2A	-5.67	112.23	125.32
33	cF	201	CYC	CHB-C4A-NA	-5.66	113.08	124.93
33	HG	201	CYC	CHA-C1A-C2A	-5.66	112.24	125.32
33	T4	201	CYC	CMA-C3A-C4A	5.66	133.78	125.06
33	B9	301	CYC	CMA-C3A-C4A	5.66	133.78	125.06
36	B1	611	CLA	CMB-C2B-C1B	-5.66	119.77	128.46
33	zB	201	CYC	CAA-C2A-C3A	5.66	138.41	127.88
45	d1	402	PHO	O2D-CGD-CBD	5.65	118.16	111.00
36	dE	403	CLA	CMB-C2B-C1B	-5.65	119.78	128.46
33	KF	201	CYC	CHB-C4A-NA	-5.65	113.11	124.93
33	HL	201	CYC	CHA-C1A-C2A	-5.65	112.27	125.32
33	TB	201	CYC	CMA-C3A-C4A	5.65	133.76	125.06
33	z4	201	CYC	CAA-C2A-C3A	5.65	138.40	127.88
33	fF	201	CYC	CMA-C3A-C4A	5.65	133.76	125.06
36	c1	507	CLA	CMD-C2D-C1D	-5.65	114.76	124.71
36	dD	403	CLA	CMB-C2B-C1B	-5.65	119.79	128.46
36	B1	606	CLA	CMB-C2B-C1B	-5.65	119.79	128.46
33	g5	202	CYC	CMA-C3A-C4A	5.64	133.75	125.06
33	fK	201	CYC	CMA-C3A-C4A	5.64	133.75	125.06
47	vE	201	HEM	CHC-C4B-NB	5.64	130.56	124.43
33	gH	202	CYC	CMA-C3A-C4A	5.64	133.75	125.06
33	B2	301	CYC	CMA-C3A-C4A	5.64	133.75	125.06
33	gJ	202	CYC	CMA-C3A-C4A	5.64	133.75	125.06
33	BA	301	CYC	CMA-C3A-C4A	5.64	133.75	125.06
36	d1	403	CLA	CMB-C2B-C1B	-5.64	119.80	128.46
33	2G	101	CYC	C1B-C2B-C3B	-5.64	101.99	107.87
33	OB	201	CYC	OB-C4B-C3B	-5.64	121.92	128.04
33	KK	201	CYC	CHB-C4A-NA	-5.63	113.15	124.93
47	vD	201	HEM	CHC-C4B-NB	5.63	130.55	124.43
33	2L	101	CYC	C1B-C2B-C3B	-5.63	101.99	107.87
33	B3	301	CYC	CMA-C3A-C4A	5.63	133.73	125.06
33	B6	301	CYC	CMA-C3A-C4A	5.63	133.73	125.06
33	BC	301	CYC	CMA-C3A-C4A	5.63	133.73	125.06
33	g8	202	CYC	CMA-C3A-C4A	5.63	133.73	125.06
45	dE	402	PHO	O2D-CGD-CBD	5.63	118.12	111.00
36	B1	608	CLA	CMB-C2B-C1B	-5.62	119.82	128.46
36	cD	507	CLA	CMD-C2D-C1D	-5.62	114.81	124.71
33	kC	201	CYC	CMA-C3A-C4A	5.62	133.72	125.06
33	3F	102	CYC	C1B-NB-C4B	-5.62	103.52	110.67
36	BD	608	CLA	CMB-C2B-C1B	-5.62	119.83	128.46
33	O4	201	CYC	OB-C4B-C3B	-5.61	121.95	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	cE	507	CLA	CMD-C2D-C1D	-5.61	114.82	124.71
45	dD	402	PHO	O2D-CGD-CBD	5.61	118.11	111.00
33	e7	201	CYC	CMA-C3A-C4A	5.61	133.71	125.06
33	HL	201	CYC	CAB-C3B-C4B	5.61	130.24	121.38
36	BE	608	CLA	CMB-C2B-C1B	-5.61	119.84	128.46
33	BI	301	CYC	CMA-C3A-C4A	5.61	133.70	125.06
33	3K	102	CYC	C1B-NB-C4B	-5.60	103.54	110.67
33	eI	201	CYC	CMA-C3A-C4A	5.60	133.69	125.06
45	dD	402	PHO	CBA-CAA-C2A	5.60	130.18	113.81
33	k3	201	CYC	CMA-C3A-C4A	5.60	133.69	125.06
33	e8	201	CYC	CMA-C3A-C4A	5.60	133.69	125.06
33	k5	201	CYC	CMA-C3A-C4A	5.60	133.69	125.06
43	cE	515	BCR	C16-C17-C18	-5.60	119.32	127.31
33	kJ	201	CYC	CMA-C3A-C4A	5.60	133.68	125.06
43	XD	102	BCR	C15-C14-C13	-5.60	119.32	127.31
43	X1	102	BCR	C15-C14-C13	-5.60	119.32	127.31
33	i2	202	CYC	CMA-C3A-C4A	5.59	133.68	125.06
33	fF	201	CYC	CHA-C1A-NA	-5.59	121.07	128.83
43	XE	102	BCR	C15-C14-C13	-5.59	119.33	127.31
43	iE	102	BCR	C3-C4-C5	-5.59	104.09	114.08
33	Q4	201	CYC	CAB-C3B-C4B	5.59	130.20	121.38
33	e9	201	CYC	CMA-C3A-C4A	5.59	133.67	125.06
33	QB	201	CYC	CAB-C3B-C4B	5.59	130.20	121.38
43	iD	102	BCR	C3-C4-C5	-5.59	104.10	114.08
33	6G	201	CYC	CAB-C3B-C4B	5.58	130.20	121.38
33	e3	201	CYC	CMA-C3A-C4A	5.58	133.66	125.06
33	HG	201	CYC	CAB-C3B-C4B	5.58	130.20	121.38
33	i8	202	CYC	CMA-C3A-C4A	5.58	133.66	125.06
43	b1	618	BCR	C7-C8-C9	-5.58	117.80	126.23
33	fK	201	CYC	CHA-C1A-NA	-5.58	121.08	128.83
43	i1	101	BCR	C3-C4-C5	-5.58	104.11	114.08
33	k9	201	CYC	CMA-C3A-C4A	5.58	133.66	125.06
33	kH	201	CYC	CMA-C3A-C4A	5.58	133.66	125.06
33	k6	201	CYC	CMA-C3A-C4A	5.58	133.65	125.06
33	k8	201	CYC	CMA-C3A-C4A	5.58	133.65	125.06
33	iI	202	CYC	CMA-C3A-C4A	5.58	133.65	125.06
33	eA	201	CYC	CMA-C3A-C4A	5.58	133.65	125.06
33	eH	201	CYC	CMA-C3A-C4A	5.58	133.65	125.06
43	cD	515	BCR	C16-C17-C18	-5.58	119.35	127.31
33	kA	201	CYC	CMA-C3A-C4A	5.57	133.65	125.06
33	iH	202	CYC	CMA-C3A-C4A	5.57	133.65	125.06
33	e6	201	CYC	CMA-C3A-C4A	5.57	133.65	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	6L	201	CYC	CAB-C3B-C4B	5.57	130.18	121.38
33	iC	202	CYC	CMA-C3A-C4A	5.57	133.65	125.06
33	eC	201	CYC	CMA-C3A-C4A	5.57	133.64	125.06
33	i9	202	CYC	CMA-C3A-C4A	5.57	133.64	125.06
33	k2	201	CYC	CMA-C3A-C4A	5.57	133.64	125.06
33	i3	202	CYC	CMA-C3A-C4A	5.57	133.64	125.06
33	iA	202	CYC	CMA-C3A-C4A	5.57	133.64	125.06
43	bE	618	BCR	C7-C8-C9	-5.57	117.82	126.23
43	bD	618	BCR	C7-C8-C9	-5.57	117.83	126.23
33	i6	202	CYC	CMA-C3A-C4A	5.57	133.63	125.06
33	i5	202	CYC	CMA-C3A-C4A	5.57	133.63	125.06
33	e2	201	CYC	CMA-C3A-C4A	5.56	133.63	125.06
33	eF	201	CYC	CHA-C1A-NA	-5.56	121.11	128.83
36	CE	510	CLA	CMD-C2D-C3D	5.56	140.40	127.61
45	d1	402	PHO	CMA-C3A-C2A	-5.56	91.61	113.99
33	k7	201	CYC	CMA-C3A-C4A	5.56	133.62	125.06
33	i7	202	CYC	CMA-C3A-C4A	5.55	133.62	125.06
33	eJ	201	CYC	CMA-C3A-C4A	5.55	133.61	125.06
33	WL	201	CYC	OB-C4B-C3B	-5.55	122.02	128.04
33	kI	201	CYC	CMA-C3A-C4A	5.55	133.61	125.06
33	iJ	202	CYC	CMA-C3A-C4A	5.55	133.61	125.06
33	eK	201	CYC	CHA-C1A-NA	-5.55	121.14	128.83
43	hD	105	BCR	C15-C14-C13	-5.55	119.40	127.31
36	CD	510	CLA	CMD-C2D-C3D	5.54	140.37	127.61
36	C1	510	CLA	CMD-C2D-C3D	5.54	140.37	127.61
33	qB	201	CYC	CBD-CAD-C3D	-5.54	103.16	112.62
33	e5	201	CYC	CMA-C3A-C4A	5.54	133.59	125.06
33	cC	201	CYC	CMA-C3A-C4A	5.54	133.59	125.06
33	WG	201	CYC	OB-C4B-C3B	-5.54	122.03	128.04
33	c7	201	CYC	CMA-C3A-C4A	5.53	133.59	125.06
33	q4	201	CYC	CBD-CAD-C3D	-5.53	103.18	112.62
45	dE	402	PHO	CBA-CAA-C2A	5.53	129.98	113.81
45	A1	412	PHO	C9-C8-C10	5.53	131.33	111.29
43	c1	515	BCR	C16-C17-C18	-5.53	119.42	127.31
43	BE	617	BCR	C7-C8-C9	-5.53	117.88	126.23
43	h1	105	BCR	C15-C14-C13	-5.52	119.43	127.31
33	OG	201	CYC	CHB-C4A-C3A	5.52	139.10	124.90
33	cI	201	CYC	CMA-C3A-C4A	5.52	133.57	125.06
33	YK	201	CYC	CHB-C4A-NA	-5.52	113.38	124.93
33	c6	201	CYC	CMA-C3A-C4A	5.52	133.56	125.06
43	BD	617	BCR	C7-C8-C9	-5.52	117.89	126.23
43	hE	105	BCR	C15-C14-C13	-5.52	119.44	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	c9	201	CYC	CMA-C3A-C4A	5.52	133.56	125.06
33	c8	201	CYC	CMA-C3A-C4A	5.51	133.56	125.06
33	YF	201	CYC	CHB-C4A-NA	-5.51	113.41	124.93
33	cH	201	CYC	CMA-C3A-C4A	5.51	133.55	125.06
33	OL	201	CYC	CHB-C4A-C3A	5.51	139.06	124.90
45	d1	402	PHO	C16-C15-C13	-5.51	98.12	115.92
33	c3	201	CYC	CMA-C3A-C4A	5.50	133.54	125.06
45	DE	401	PHO	CBA-CAA-C2A	5.50	129.89	113.81
33	c2	201	CYC	CMA-C3A-C4A	5.50	133.54	125.06
33	P4	201	CYC	OB-C4B-C3B	-5.50	122.07	128.04
33	c5	201	CYC	CMA-C3A-C4A	5.50	133.53	125.06
43	B1	617	BCR	C7-C8-C9	-5.50	117.93	126.23
33	dK	201	CYC	CHB-C4A-NA	-5.50	113.43	124.93
41	AE	410	BCT	O2-C-O1	5.49	133.80	119.55
45	aD	412	PHO	C9-C8-C10	5.49	131.19	111.29
41	AD	410	BCT	O2-C-O1	5.49	133.79	119.55
33	IL	201	CYC	CHB-C4A-NA	-5.49	113.45	124.93
33	IG	201	CYC	CHB-C4A-NA	-5.49	113.45	124.93
33	JK	201	CYC	OC-C1C-C2C	-5.49	121.81	126.17
33	ZB	201	CYC	CMA-C3A-C4A	5.49	133.51	125.06
43	iE	102	BCR	C24-C23-C22	5.48	134.52	126.23
33	dF	201	CYC	CHB-C4A-NA	-5.48	113.46	124.93
33	vB	201	CYC	CMB-C2B-C1B	5.48	131.01	124.17
41	A1	410	BCT	O2-C-O1	5.48	133.76	119.55
33	PB	201	CYC	OB-C4B-C3B	-5.48	122.09	128.04
33	hF	201	CYC	CHB-C4A-NA	-5.48	113.47	124.93
33	hK	201	CYC	CHB-C4A-NA	-5.48	113.47	124.93
33	z4	201	CYC	CAB-C3B-C4B	5.48	130.03	121.38
33	cA	201	CYC	CMA-C3A-C4A	5.48	133.50	125.06
33	v4	201	CYC	CMB-C2B-C1B	5.47	131.00	124.17
33	cJ	201	CYC	CMA-C3A-C4A	5.47	133.50	125.06
33	KF	201	CYC	C4D-CHA-C1A	5.47	135.35	128.81
33	Z4	201	CYC	CMA-C3A-C4A	5.47	133.49	125.06
33	zB	201	CYC	CAB-C3B-C4B	5.47	130.02	121.38
33	KK	201	CYC	C4D-CHA-C1A	5.47	135.34	128.81
33	B4	1004	CYC	CAB-C3B-C4B	5.47	130.01	121.38
43	i1	101	BCR	C24-C23-C22	5.47	134.49	126.23
45	d1	402	PHO	C6-C7-C8	5.46	133.58	115.92
43	iD	102	BCR	C24-C23-C22	5.45	134.47	126.23
43	C1	516	BCR	C7-C8-C9	-5.44	118.01	126.23
33	aB	201	CYC	OC-C1C-C2C	-5.44	121.85	126.17
33	BB	1004	CYC	CAB-C3B-C4B	5.44	129.97	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	NG	201	CYC	CMA-C3A-C4A	5.44	133.44	125.06
33	a4	201	CYC	OC-C1C-C2C	-5.44	121.85	126.17
43	CE	516	BCR	C7-C8-C9	-5.43	118.02	126.23
33	1L	201	CYC	CMB-C2B-C1B	5.43	130.95	124.17
43	IE	102	BCR	C23-C24-C25	5.43	142.45	127.20
33	TB	201	CYC	OC-C1C-C2C	-5.43	121.86	126.17
33	qB	201	CYC	CAB-C3B-C4B	5.43	129.95	121.38
33	qB	201	CYC	OB-C4B-C3B	-5.43	122.15	128.04
33	VL	201	CYC	OC-C1C-NC	5.42	131.51	124.94
43	CD	516	BCR	C7-C8-C9	-5.42	118.04	126.23
33	q4	201	CYC	CAB-C3B-C4B	5.42	129.94	121.38
33	NL	201	CYC	CMA-C3A-C4A	5.42	133.41	125.06
33	LF	201	CYC	CHA-C1A-NA	-5.42	121.31	128.83
33	JF	201	CYC	OC-C1C-C2C	-5.42	121.86	126.17
45	d1	402	PHO	C11-C12-C13	5.42	133.43	115.92
43	ID	102	BCR	C23-C24-C25	5.42	142.42	127.20
33	LK	201	CYC	CHA-C1A-NA	-5.42	121.31	128.83
33	u4	201	CYC	OB-C4B-C3B	-5.41	122.16	128.04
33	PG	201	CYC	CHA-C1A-NA	-5.41	121.32	128.83
43	I1	102	BCR	C23-C24-C25	5.41	142.39	127.20
41	a1	411	BCT	O2-C-O1	5.41	133.57	119.55
41	aE	410	BCT	O2-C-O1	5.40	133.56	119.55
33	VG	201	CYC	OC-C1C-NC	5.40	131.49	124.94
33	9F	201	CYC	CMA-C3A-C4A	5.40	133.38	125.06
33	dF	201	CYC	CMB-C2B-C1B	5.40	130.91	124.17
33	LL	201	CYC	CHD-C4C-NC	5.40	131.63	125.20
41	aD	410	BCT	O2-C-O1	5.40	133.55	119.55
33	7G	201	CYC	OB-C4B-C3B	-5.40	122.18	128.04
33	q4	201	CYC	OB-C4B-C3B	-5.40	122.18	128.04
33	T4	201	CYC	OC-C1C-C2C	-5.39	121.88	126.17
33	PL	201	CYC	CHA-C1A-NA	-5.39	121.35	128.83
33	1G	201	CYC	CMB-C2B-C1B	5.39	130.90	124.17
33	uB	201	CYC	OB-C4B-C3B	-5.39	122.19	128.04
33	9K	201	CYC	CMA-C3A-C4A	5.39	133.36	125.06
33	dK	201	CYC	CMB-C2B-C1B	5.39	130.89	124.17
33	YK	201	CYC	CMB-C2B-C1B	5.38	130.89	124.17
33	b3	201	CYC	CMA-C3A-C4A	5.38	133.35	125.06
33	S4	201	CYC	C4D-CHA-C1A	5.38	135.24	128.81
33	YF	201	CYC	CMB-C2B-C1B	5.38	130.88	124.17
33	s4	201	CYC	C2B-C1B-NB	5.38	114.86	106.99
33	IL	201	CYC	CMB-C2B-C1B	5.37	130.88	124.17
33	LG	201	CYC	CHD-C4C-NC	5.37	131.59	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	bJ	201	CYC	CMA-C3A-C4A	5.37	133.34	125.06
33	l9	201	CYC	CMA-C3A-C4A	5.37	133.34	125.06
33	IG	201	CYC	CMB-C2B-C1B	5.37	130.87	124.17
33	b7	201	CYC	CMA-C3A-C4A	5.37	133.33	125.06
33	bI	201	CYC	CMA-C3A-C4A	5.37	133.33	125.06
33	sB	201	CYC	C2B-C1B-NB	5.37	114.84	106.99
33	b2	201	CYC	CMA-C3A-C4A	5.37	133.33	125.06
33	SB	201	CYC	C4D-CHA-C1A	5.36	135.22	128.81
33	7L	201	CYC	OB-C4B-C3B	-5.36	122.22	128.04
33	IK	201	CYC	CHB-C1B-NB	-5.36	114.55	126.06
33	bH	201	CYC	CMA-C3A-C4A	5.36	133.32	125.06
33	b8	201	CYC	CMA-C3A-C4A	5.36	133.32	125.06
33	l5	201	CYC	CMA-C3A-C4A	5.36	133.32	125.06
43	hD	105	BCR	C7-C8-C9	-5.36	118.14	126.23
45	D1	402	PHO	CMA-C3A-C2A	-5.36	92.41	113.99
33	l6	201	CYC	CMA-C3A-C4A	5.36	133.31	125.06
33	l3	201	CYC	CMA-C3A-C4A	5.36	133.31	125.06
43	h1	105	BCR	C7-C8-C9	-5.36	118.14	126.23
33	IF	201	CYC	CHB-C1B-NB	-5.35	114.56	126.06
33	b6	201	CYC	CMA-C3A-C4A	5.35	133.31	125.06
33	bA	201	CYC	CMA-C3A-C4A	5.35	133.31	125.06
33	lJ	201	CYC	CMA-C3A-C4A	5.35	133.30	125.06
43	hE	105	BCR	C7-C8-C9	-5.35	118.15	126.23
33	j7	201	CYC	CMA-C3A-C4A	5.35	133.30	125.06
33	b9	201	CYC	CMA-C3A-C4A	5.35	133.30	125.06
33	lC	201	CYC	CMA-C3A-C4A	5.35	133.30	125.06
33	lA	201	CYC	CMA-C3A-C4A	5.35	133.30	125.06
33	lH	201	CYC	CMA-C3A-C4A	5.35	133.30	125.06
33	BB	1001	CYC	CAB-C3B-C4B	5.35	129.82	121.38
33	B4	1001	CYC	CAB-C3B-C4B	5.35	129.82	121.38
33	l8	201	CYC	CMA-C3A-C4A	5.34	133.29	125.06
33	j9	201	CYC	CMA-C3A-C4A	5.34	133.29	125.06
33	b5	201	CYC	CMA-C3A-C4A	5.34	133.29	125.06
33	j8	201	CYC	CMA-C3A-C4A	5.34	133.29	125.06
33	lI	201	CYC	CMA-C3A-C4A	5.34	133.29	125.06
33	l7	201	CYC	CMA-C3A-C4A	5.34	133.28	125.06
33	jI	201	CYC	CMA-C3A-C4A	5.34	133.28	125.06
33	jC	201	CYC	CMA-C3A-C4A	5.34	133.28	125.06
33	l2	201	CYC	CMA-C3A-C4A	5.34	133.28	125.06
33	bC	201	CYC	CMA-C3A-C4A	5.33	133.27	125.06
33	fJ	201	CYC	CMA-C3A-C4A	5.33	133.27	125.06
33	j5	201	CYC	CMA-C3A-C4A	5.32	133.26	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	s4	201	CYC	C1B-NB-C4B	-5.32	103.89	110.67
33	R4	201	CYC	C1B-C2B-C3B	-5.32	102.32	107.87
33	j3	201	CYC	CMA-C3A-C4A	5.32	133.26	125.06
33	d7	201	CYC	CMA-C3A-C4A	5.32	133.26	125.06
33	jH	201	CYC	CMA-C3A-C4A	5.32	133.26	125.06
33	d9	201	CYC	CMA-C3A-C4A	5.32	133.26	125.06
33	PG	201	CYC	CHB-C4A-NA	-5.32	113.81	124.93
33	hC	201	CYC	CMA-C3A-C4A	5.32	133.25	125.06
33	hF	201	CYC	CMB-C2B-C1B	5.32	130.81	124.17
33	fC	201	CYC	CMA-C3A-C4A	5.32	133.25	125.06
33	hK	201	CYC	CMB-C2B-C1B	5.32	130.81	124.17
33	mK	201	CYC	OC-C1C-NC	5.31	131.38	124.94
33	hJ	201	CYC	CMA-C3A-C4A	5.31	133.25	125.06
33	RB	201	CYC	C1B-C2B-C3B	-5.31	102.33	107.87
39	bE	619	LMG	O7-C10-C11	5.31	122.95	111.50
43	Z1	101	BCR	C20-C21-C22	-5.31	119.73	127.31
33	dA	201	CYC	CMA-C3A-C4A	5.31	133.24	125.06
33	dC	201	CYC	CMA-C3A-C4A	5.31	133.24	125.06
33	jA	201	CYC	CMA-C3A-C4A	5.31	133.24	125.06
33	TB	201	CYC	CAB-C3B-C4B	5.31	129.76	121.38
33	h2	201	CYC	CMA-C3A-C4A	5.31	133.24	125.06
33	d3	201	CYC	CMA-C3A-C4A	5.31	133.24	125.06
33	j6	201	CYC	CMA-C3A-C4A	5.31	133.24	125.06
33	hA	201	CYC	CMA-C3A-C4A	5.31	133.24	125.06
43	XE	102	BCR	C7-C8-C9	-5.31	118.22	126.23
33	PL	201	CYC	CHB-C4A-NA	-5.31	113.83	124.93
33	dI	201	CYC	CMA-C3A-C4A	5.31	133.24	125.06
33	fA	201	CYC	CMA-C3A-C4A	5.30	133.23	125.06
33	dH	201	CYC	CMA-C3A-C4A	5.30	133.23	125.06
33	f2	201	CYC	CMA-C3A-C4A	5.30	133.23	125.06
39	BE	618	LMG	O7-C10-C11	5.30	122.93	111.50
43	ZD	101	BCR	C20-C21-C22	-5.30	119.74	127.31
33	BB	1001	CYC	CHB-C4A-NA	-5.30	113.84	124.93
39	BD	618	LMG	O7-C10-C11	5.30	122.93	111.50
43	ZE	101	BCR	C20-C21-C22	-5.30	119.74	127.31
33	dJ	201	CYC	CMA-C3A-C4A	5.30	133.23	125.06
33	T4	201	CYC	CAB-C3B-C4B	5.30	129.75	121.38
33	ML	201	CYC	C4D-CHA-C1A	5.30	135.14	128.81
33	d2	201	CYC	CMA-C3A-C4A	5.30	133.23	125.06
33	jJ	201	CYC	CMA-C3A-C4A	5.30	133.23	125.06
33	mF	201	CYC	OC-C1C-NC	5.30	131.36	124.94
33	MG	201	CYC	C4D-CHA-C1A	5.30	135.14	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	sB	201	CYC	C1B-NB-C4B	-5.30	103.92	110.67
33	3F	101	CYC	CMB-C2B-C1B	5.30	130.78	124.17
33	TB	201	CYC	OB-C4B-C3B	-5.30	122.29	128.04
39	b1	619	LMG	O7-C10-C11	5.30	122.92	111.50
33	B4	1001	CYC	CHB-C4A-NA	-5.30	113.85	124.93
33	hH	201	CYC	CMA-C3A-C4A	5.30	133.22	125.06
39	bD	619	LMG	O7-C10-C11	5.30	122.92	111.50
33	j2	201	CYC	CMA-C3A-C4A	5.30	133.22	125.06
33	d6	201	CYC	CMA-C3A-C4A	5.30	133.22	125.06
33	hI	201	CYC	CMA-C3A-C4A	5.30	133.22	125.06
33	d5	201	CYC	CMA-C3A-C4A	5.29	133.22	125.06
43	X1	102	BCR	C7-C8-C9	-5.29	118.23	126.23
33	f9	201	CYC	CMA-C3A-C4A	5.29	133.22	125.06
33	d8	201	CYC	CMA-C3A-C4A	5.29	133.22	125.06
33	Q4	201	CYC	OB-C4B-C3B	-5.29	122.30	128.04
43	XD	102	BCR	C7-C8-C9	-5.29	118.24	126.23
33	h9	201	CYC	CMA-C3A-C4A	5.29	133.21	125.06
33	T4	201	CYC	OB-C4B-C3B	-5.29	122.30	128.04
33	fI	201	CYC	CMA-C3A-C4A	5.29	133.21	125.06
36	AD	404	CLA	CMB-C2B-C1B	-5.29	120.33	128.46
33	h5	201	CYC	CMA-C3A-C4A	5.29	133.21	125.06
33	h7	201	CYC	CMA-C3A-C4A	5.29	133.21	125.06
33	3K	101	CYC	CMB-C2B-C1B	5.29	130.77	124.17
36	A1	404	CLA	CMB-C2B-C1B	-5.29	120.34	128.46
33	h8	201	CYC	CMA-C3A-C4A	5.29	133.20	125.06
33	w4	201	CYC	OB-C4B-C3B	-5.28	122.31	128.04
33	f7	201	CYC	CMA-C3A-C4A	5.28	133.20	125.06
33	W4	201	CYC	C2B-C1B-NB	5.28	114.72	106.99
33	7L	201	CYC	CHB-C4A-NA	-5.28	113.88	124.93
33	h6	201	CYC	CMA-C3A-C4A	5.28	133.20	125.06
33	fH	201	CYC	CMA-C3A-C4A	5.28	133.20	125.06
33	7G	201	CYC	CHB-C4A-NA	-5.28	113.88	124.93
33	5L	201	CYC	CHB-C4A-NA	-5.28	113.88	124.93
33	h3	201	CYC	CMA-C3A-C4A	5.28	133.20	125.06
43	IE	102	BCR	C4-C5-C6	-5.28	115.07	122.73
33	5G	201	CYC	CHB-C4A-NA	-5.28	113.89	124.93
36	CE	515	CLA	CMB-C2B-C1B	-5.28	120.35	128.46
33	PL	201	CYC	CMA-C3A-C4A	5.28	133.19	125.06
33	f8	201	CYC	CMA-C3A-C4A	5.28	133.19	125.06
33	QB	201	CYC	OB-C4B-C3B	-5.28	122.31	128.04
36	AE	404	CLA	CMB-C2B-C1B	-5.28	120.36	128.46
33	PG	201	CYC	CMA-C3A-C4A	5.27	133.19	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	j5	201	CYC	CBD-CAD-C3D	-5.27	103.62	112.62
39	B1	618	LMG	O7-C10-C11	5.27	122.86	111.50
33	WG	201	CYC	CHB-C4A-NA	-5.27	113.91	124.93
33	f3	201	CYC	CMA-C3A-C4A	5.27	133.18	125.06
36	CD	515	CLA	CMB-C2B-C1B	-5.27	120.37	128.46
33	j8	201	CYC	CBD-CAD-C3D	-5.27	103.63	112.62
33	WL	201	CYC	CHB-C4A-NA	-5.27	113.92	124.93
33	MG	201	CYC	C2B-C1B-NB	5.27	114.70	106.99
33	LF	201	CYC	CAB-C3B-C4B	5.27	129.70	121.38
43	zD	101	BCR	C20-C21-C22	-5.27	119.79	127.31
33	j7	201	CYC	CBD-CAD-C3D	-5.27	103.63	112.62
33	WB	201	CYC	C2B-C1B-NB	5.26	114.69	106.99
33	f5	201	CYC	CMA-C3A-C4A	5.26	133.17	125.06
33	ML	201	CYC	C2B-C1B-NB	5.26	114.69	106.99
33	wB	201	CYC	OB-C4B-C3B	-5.26	122.33	128.04
33	j6	201	CYC	CBD-CAD-C3D	-5.26	103.65	112.62
33	f6	201	CYC	CMA-C3A-C4A	5.26	133.16	125.06
33	5G	201	CYC	OC-C1C-C2C	-5.26	121.99	126.17
33	jC	201	CYC	CBD-CAD-C3D	-5.26	103.65	112.62
33	jH	201	CYC	CBD-CAD-C3D	-5.25	103.66	112.62
43	ID	102	BCR	C4-C5-C6	-5.25	115.11	122.73
43	zE	101	BCR	C20-C21-C22	-5.25	119.81	127.31
33	f2	201	CYC	CBD-CAD-C3D	-5.25	103.66	112.62
33	fA	201	CYC	CBD-CAD-C3D	-5.25	103.66	112.62
43	I1	102	BCR	C4-C5-C6	-5.25	115.11	122.73
33	jI	201	CYC	CBD-CAD-C3D	-5.25	103.66	112.62
33	j3	201	CYC	CBD-CAD-C3D	-5.25	103.67	112.62
43	z1	101	BCR	C20-C21-C22	-5.25	119.82	127.31
33	LK	201	CYC	CAB-C3B-C4B	5.25	129.66	121.38
33	j9	201	CYC	CBD-CAD-C3D	-5.25	103.67	112.62
33	f9	201	CYC	CBD-CAD-C3D	-5.24	103.67	112.62
33	GL	201	CYC	OB-C4B-C3B	-5.24	122.35	128.04
36	C1	515	CLA	CMB-C2B-C1B	-5.24	120.41	128.46
33	b6	201	CYC	CBD-CAD-C3D	-5.24	103.68	112.62
33	jJ	201	CYC	CBD-CAD-C3D	-5.24	103.68	112.62
33	j2	201	CYC	CBD-CAD-C3D	-5.24	103.68	112.62
33	f8	201	CYC	CBD-CAD-C3D	-5.24	103.68	112.62
33	NF	101	CYC	CAB-C3B-C4B	5.24	129.65	121.38
33	fH	201	CYC	CBD-CAD-C3D	-5.24	103.69	112.62
33	fJ	201	CYC	CBD-CAD-C3D	-5.24	103.69	112.62
33	h3	201	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
43	XD	102	BCR	C11-C10-C9	-5.23	119.84	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	f5	201	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
33	jA	201	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
33	b3	201	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
33	f3	201	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
33	bC	201	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
33	bH	201	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
33	bI	201	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
33	BB	1001	CYC	CMB-C2B-C1B	5.23	130.70	124.17
33	b8	201	CYC	CBD-CAD-C3D	-5.23	103.69	112.62
33	fC	201	CYC	CBD-CAD-C3D	-5.23	103.70	112.62
33	B4	1001	CYC	CMB-C2B-C1B	5.23	130.70	124.17
33	f6	201	CYC	CBD-CAD-C3D	-5.23	103.70	112.62
33	b9	201	CYC	CBD-CAD-C3D	-5.23	103.70	112.62
33	fI	201	CYC	CBD-CAD-C3D	-5.23	103.70	112.62
33	CB	1002	CYC	CMB-C2B-C1B	5.23	130.69	124.17
33	b5	201	CYC	CBD-CAD-C3D	-5.23	103.70	112.62
33	l7	201	CYC	CBD-CAD-C3D	-5.22	103.71	112.62
33	GG	201	CYC	OB-C4B-C3B	-5.22	122.38	128.04
33	lJ	201	CYC	CBD-CAD-C3D	-5.22	103.72	112.62
33	NK	101	CYC	CAB-C3B-C4B	5.22	129.62	121.38
33	5L	201	CYC	OC-C1C-C2C	-5.22	122.03	126.17
33	bJ	201	CYC	CBD-CAD-C3D	-5.22	103.72	112.62
43	h1	105	BCR	C11-C10-C9	-5.22	119.87	127.31
43	i1	101	BCR	C4-C5-C6	-5.21	115.16	122.73
33	b2	201	CYC	CBD-CAD-C3D	-5.21	103.72	112.62
33	f7	201	CYC	CBD-CAD-C3D	-5.21	103.72	112.62
33	C4	1002	CYC	CMB-C2B-C1B	5.21	130.68	124.17
33	3F	101	CYC	CHB-C4A-NA	-5.21	114.03	124.93
33	3K	101	CYC	CHB-C4A-NA	-5.21	114.03	124.93
33	l5	201	CYC	CBD-CAD-C3D	-5.21	103.73	112.62
33	3F	101	CYC	C1B-C2B-C3B	-5.21	102.44	107.87
43	X1	102	BCR	C11-C10-C9	-5.21	119.88	127.31
43	hD	105	BCR	C11-C10-C9	-5.21	119.88	127.31
43	hE	105	BCR	C11-C10-C9	-5.21	119.88	127.31
43	XE	102	BCR	C11-C10-C9	-5.21	119.88	127.31
33	VG	201	CYC	CHB-C4A-NA	-5.21	114.04	124.93
33	b7	201	CYC	CBD-CAD-C3D	-5.21	103.73	112.62
33	l8	201	CYC	CBD-CAD-C3D	-5.20	103.74	112.62
33	d2	201	CYC	CBD-CAD-C3D	-5.20	103.74	112.62
43	iD	102	BCR	C4-C5-C6	-5.20	115.18	122.73
33	3K	101	CYC	C1B-C2B-C3B	-5.20	102.44	107.87
33	bA	201	CYC	CBD-CAD-C3D	-5.20	103.74	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	h5	201	CYC	CBD-CAD-C3D	-5.20	103.75	112.62
33	h9	201	CYC	CBD-CAD-C3D	-5.20	103.75	112.62
33	hJ	201	CYC	CBD-CAD-C3D	-5.20	103.75	112.62
33	hI	201	CYC	CBD-CAD-C3D	-5.20	103.75	112.62
33	l3	201	CYC	CBD-CAD-C3D	-5.20	103.75	112.62
33	h6	201	CYC	CBD-CAD-C3D	-5.20	103.75	112.62
43	I1	102	BCR	C21-C20-C19	-5.19	107.00	123.22
33	l2	201	CYC	CBD-CAD-C3D	-5.19	103.75	112.62
33	hH	201	CYC	CBD-CAD-C3D	-5.19	103.76	112.62
36	bE	612	CLA	CMB-C2B-C3B	5.19	134.40	124.68
33	lH	201	CYC	CBD-CAD-C3D	-5.19	103.76	112.62
43	ID	102	BCR	C21-C20-C19	-5.19	107.01	123.22
33	VL	201	CYC	CHB-C4A-NA	-5.19	114.07	124.93
33	h8	201	CYC	CBD-CAD-C3D	-5.19	103.76	112.62
33	lC	201	CYC	CBD-CAD-C3D	-5.19	103.76	112.62
33	l9	201	CYC	CBD-CAD-C3D	-5.19	103.76	112.62
33	lI	201	CYC	CBD-CAD-C3D	-5.19	103.76	112.62
43	iE	102	BCR	C4-C5-C6	-5.19	115.20	122.73
43	IE	102	BCR	C21-C20-C19	-5.19	107.02	123.22
33	h2	201	CYC	CBD-CAD-C3D	-5.19	103.77	112.62
33	hC	201	CYC	CBD-CAD-C3D	-5.19	103.77	112.62
33	lA	201	CYC	CBD-CAD-C3D	-5.19	103.77	112.62
33	l6	201	CYC	CBD-CAD-C3D	-5.18	103.77	112.62
36	CD	506	CLA	CMB-C2B-C3B	5.18	134.38	124.68
33	dI	201	CYC	CBD-CAD-C3D	-5.18	103.78	112.62
33	KF	201	CYC	CBC-CAC-C3C	5.18	125.00	113.47
33	BB	1002	CYC	OB-C4B-C3B	-5.18	122.42	128.04
33	B4	1002	CYC	OB-C4B-C3B	-5.18	122.42	128.04
36	BE	611	CLA	CMB-C2B-C3B	5.18	134.37	124.68
36	BD	611	CLA	CMB-C2B-C3B	5.18	134.37	124.68
36	b1	612	CLA	CMB-C2B-C3B	5.18	134.37	124.68
36	bD	612	CLA	CMB-C2B-C3B	5.18	134.37	124.68
33	hA	201	CYC	CBD-CAD-C3D	-5.18	103.78	112.62
33	mF	201	CYC	CHB-C4A-NA	-5.18	114.10	124.93
43	cE	515	BCR	C11-C10-C9	-5.18	119.92	127.31
33	d6	201	CYC	CBD-CAD-C3D	-5.18	103.78	112.62
36	B1	611	CLA	CMB-C2B-C3B	5.18	134.36	124.68
33	d7	201	CYC	CBD-CAD-C3D	-5.18	103.79	112.62
33	h7	201	CYC	CBD-CAD-C3D	-5.17	103.79	112.62
36	CE	506	CLA	CMB-C2B-C3B	5.17	134.36	124.68
33	dH	201	CYC	CBD-CAD-C3D	-5.17	103.79	112.62
33	4L	201	CYC	CAB-C3B-C4B	5.17	129.55	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	3F	102	CYC	CAB-C3B-C4B	5.17	129.55	121.38
33	mK	201	CYC	CHB-C4A-NA	-5.17	114.11	124.93
36	C1	506	CLA	CMB-C2B-C3B	5.17	134.36	124.68
33	3K	102	CYC	CAB-C3B-C4B	5.17	129.55	121.38
33	d9	201	CYC	CBD-CAD-C3D	-5.17	103.80	112.62
33	KK	201	CYC	CBC-CAC-C3C	5.17	124.98	113.47
33	d3	201	CYC	CBD-CAD-C3D	-5.17	103.80	112.62
33	d8	201	CYC	CBD-CAD-C3D	-5.17	103.80	112.62
33	dJ	201	CYC	CBD-CAD-C3D	-5.17	103.80	112.62
33	4G	201	CYC	CAB-C3B-C4B	5.17	129.54	121.38
33	dA	201	CYC	CBD-CAD-C3D	-5.17	103.81	112.62
33	dC	201	CYC	CBD-CAD-C3D	-5.16	103.81	112.62
45	D1	402	PHO	C11-C12-C13	5.16	132.60	115.92
33	cK	201	CYC	C2B-C1B-NB	5.16	114.54	106.99
33	JL	201	CYC	CMA-C3A-C4A	5.16	133.01	125.06
33	d5	201	CYC	CBD-CAD-C3D	-5.16	103.82	112.62
33	JG	201	CYC	CMA-C3A-C4A	5.16	133.00	125.06
43	cD	515	BCR	C11-C10-C9	-5.15	119.95	127.31
33	aF	201	CYC	C2B-C1B-NB	5.15	114.53	106.99
33	rB	201	CYC	C1B-CHB-C4A	5.15	140.66	128.08
33	r4	201	CYC	C1B-CHB-C4A	5.15	140.66	128.08
33	AL	201	CYC	C2B-C1B-NB	5.14	114.52	106.99
33	AG	201	CYC	C2B-C1B-NB	5.14	114.52	106.99
45	aE	412	PHO	CMA-C3A-C2A	-5.14	93.29	113.99
33	1L	201	CYC	C1B-C2B-C3B	-5.14	102.51	107.87
33	c6	201	CYC	O1A-CGA-CBA	5.13	139.57	123.08
33	aK	201	CYC	C2B-C1B-NB	5.13	114.50	106.99
33	z4	201	CYC	OB-C4B-C3B	-5.13	122.48	128.04
33	cF	201	CYC	C2B-C1B-NB	5.12	114.49	106.99
33	c7	201	CYC	CHB-C4A-NA	-5.12	114.22	124.93
33	BA	301	CYC	O1A-CGA-CBA	5.12	139.54	123.08
33	c8	201	CYC	O1A-CGA-CBA	5.12	139.54	123.08
33	c9	201	CYC	O1A-CGA-CBA	5.12	139.54	123.08
33	gJ	202	CYC	O1A-CGA-CBA	5.12	139.54	123.08
43	c1	515	BCR	C11-C10-C9	-5.12	120.00	127.31
33	y4	201	CYC	C1B-NB-C4B	-5.12	104.15	110.67
33	eJ	201	CYC	CHB-C4A-NA	-5.12	114.22	124.93
33	a4	201	CYC	C4D-CHA-C1A	5.12	134.93	128.81
33	cJ	201	CYC	O1A-CGA-CBA	5.12	139.53	123.08
33	cK	201	CYC	C1B-C2B-C3B	-5.12	102.53	107.87
33	eA	201	CYC	CHB-C4A-NA	-5.12	114.23	124.93
45	aE	412	PHO	CBA-CAA-C2A	5.12	128.76	113.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	e3	201	CYC	CHB-C4A-NA	-5.12	114.23	124.93
33	B6	301	CYC	O1A-CGA-CBA	5.12	139.52	123.08
33	aF	201	CYC	C1B-C2B-C3B	-5.12	102.53	107.87
33	g5	202	CYC	O1A-CGA-CBA	5.12	139.52	123.08
33	g8	202	CYC	O1A-CGA-CBA	5.11	139.51	123.08
33	i5	202	CYC	CHB-C4A-NA	-5.11	114.24	124.93
33	iJ	202	CYC	CHB-C4A-NA	-5.11	114.24	124.93
33	B7	301	CYC	O1A-CGA-CBA	5.11	139.51	123.08
33	BI	301	CYC	O1A-CGA-CBA	5.11	139.50	123.08
33	B3	301	CYC	O1A-CGA-CBA	5.11	139.50	123.08
33	gH	202	CYC	O1A-CGA-CBA	5.11	139.50	123.08
33	aB	201	CYC	C4D-CHA-C1A	5.11	134.91	128.81
33	cH	201	CYC	O1A-CGA-CBA	5.11	139.50	123.08
33	cA	201	CYC	CHB-C4A-NA	-5.11	114.24	124.93
33	eH	201	CYC	CHB-C4A-NA	-5.11	114.24	124.93
33	B9	301	CYC	O1A-CGA-CBA	5.11	139.50	123.08
33	eI	201	CYC	CHB-C4A-NA	-5.11	114.24	124.93
33	e5	201	CYC	CHB-C4A-NA	-5.11	114.24	124.93
33	kC	201	CYC	O1A-CGA-CBA	5.11	139.50	123.08
45	A1	412	PHO	C11-C10-C8	5.11	132.43	115.92
33	cI	201	CYC	O1A-CGA-CBA	5.11	139.49	123.08
33	e6	201	CYC	CHB-C4A-NA	-5.11	114.25	124.93
33	c5	201	CYC	O1A-CGA-CBA	5.11	139.49	123.08
33	W4	201	CYC	C1B-NB-C4B	-5.11	104.17	110.67
33	NF	101	CYC	CHB-C4A-NA	-5.11	114.25	124.93
33	cA	201	CYC	O1A-CGA-CBA	5.11	139.49	123.08
33	iA	202	CYC	CHB-C4A-NA	-5.11	114.25	124.93
33	i9	202	CYC	CHB-C4A-NA	-5.11	114.25	124.93
33	aK	201	CYC	C1B-C2B-C3B	-5.11	102.54	107.87
43	k1	102	BCR	C11-C10-C9	-5.11	120.02	127.31
33	c9	201	CYC	CHB-C4A-NA	-5.11	114.25	124.93
33	iI	202	CYC	CHB-C4A-NA	-5.11	114.25	124.93
33	c3	201	CYC	O1A-CGA-CBA	5.11	139.48	123.08
33	iC	202	CYC	CHB-C4A-NA	-5.10	114.25	124.93
33	BC	301	CYC	O1A-CGA-CBA	5.10	139.48	123.08
33	e8	201	CYC	CHB-C4A-NA	-5.10	114.26	124.93
33	NK	101	CYC	CHB-C4A-NA	-5.10	114.26	124.93
33	kI	201	CYC	O1A-CGA-CBA	5.10	139.48	123.08
33	C4	1003	CYC	OB-C4B-C3B	-5.10	122.50	128.04
33	c3	201	CYC	CHB-C4A-NA	-5.10	114.26	124.93
33	k2	201	CYC	O1A-CGA-CBA	5.10	139.47	123.08
33	c5	201	CYC	CHB-C4A-NA	-5.10	114.26	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	c2	201	CYC	O1A-CGA-CBA	5.10	139.47	123.08
33	k8	201	CYC	O1A-CGA-CBA	5.10	139.47	123.08
33	WB	201	CYC	CAB-C3B-C4B	5.10	129.44	121.38
33	eC	201	CYC	CHB-C4A-NA	-5.10	114.26	124.93
33	iH	202	CYC	CHB-C4A-NA	-5.10	114.26	124.93
33	k6	201	CYC	O1A-CGA-CBA	5.10	139.47	123.08
33	eJ	201	CYC	O1A-CGA-CBA	5.10	139.47	123.08
33	e2	201	CYC	O1A-CGA-CBA	5.10	139.46	123.08
33	yB	201	CYC	C1B-NB-C4B	-5.10	104.18	110.67
33	c7	201	CYC	O1A-CGA-CBA	5.10	139.46	123.08
33	CB	1002	CYC	C2B-C1B-NB	5.10	114.45	106.99
33	T4	201	CYC	CHB-C4A-NA	-5.10	114.27	124.93
33	1G	201	CYC	C1B-C2B-C3B	-5.10	102.55	107.87
33	i3	202	CYC	CHB-C4A-NA	-5.10	114.27	124.93
33	c8	201	CYC	CHB-C4A-NA	-5.10	114.27	124.93
33	iC	202	CYC	O1A-CGA-CBA	5.10	139.46	123.08
33	k3	201	CYC	O1A-CGA-CBA	5.10	139.46	123.08
33	cC	201	CYC	O1A-CGA-CBA	5.10	139.45	123.08
33	kH	201	CYC	O1A-CGA-CBA	5.10	139.45	123.08
33	S4	201	CYC	CMA-C3A-C4A	5.10	132.91	125.06
33	i7	202	CYC	CHB-C4A-NA	-5.10	114.27	124.93
33	cH	201	CYC	CHB-C4A-NA	-5.10	114.27	124.93
33	X4	201	CYC	C1A-C2A-C3A	-5.10	101.14	106.78
33	BI	301	CYC	CHB-C4A-NA	-5.10	114.27	124.93
33	k7	201	CYC	O1A-CGA-CBA	5.10	139.45	123.08
33	B2	301	CYC	O1A-CGA-CBA	5.09	139.45	123.08
33	i2	202	CYC	CHB-C4A-NA	-5.09	114.28	124.93
33	cC	201	CYC	CHB-C4A-NA	-5.09	114.28	124.93
33	e3	201	CYC	O1A-CGA-CBA	5.09	139.44	123.08
33	iJ	202	CYC	O1A-CGA-CBA	5.09	139.44	123.08
33	c2	201	CYC	CHB-C4A-NA	-5.09	114.28	124.93
33	W4	201	CYC	CAB-C3B-C4B	5.09	129.42	121.38
33	eI	201	CYC	O1A-CGA-CBA	5.09	139.44	123.08
33	kJ	201	CYC	O1A-CGA-CBA	5.09	139.44	123.08
33	TB	201	CYC	CHB-C4A-NA	-5.09	114.28	124.93
33	XB	201	CYC	C1A-C2A-C3A	-5.09	101.15	106.78
33	WB	201	CYC	C1B-NB-C4B	-5.09	104.19	110.67
33	k5	201	CYC	O1A-CGA-CBA	5.09	139.43	123.08
33	e7	201	CYC	O1A-CGA-CBA	5.09	139.43	123.08
33	e9	201	CYC	CHB-C4A-NA	-5.09	114.29	124.93
33	kA	201	CYC	O1A-CGA-CBA	5.09	139.43	123.08
33	C4	1002	CYC	C2B-C1B-NB	5.09	114.44	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	6G	201	CYC	OB-C4B-C3B	-5.09	122.52	128.04
33	i6	202	CYC	CHB-C4A-NA	-5.09	114.29	124.93
33	e7	201	CYC	CHB-C4A-NA	-5.09	114.29	124.93
33	e2	201	CYC	CHB-C4A-NA	-5.09	114.29	124.93
45	A1	412	PHO	CBA-CAA-C2A	5.09	128.67	113.81
33	i5	202	CYC	O1A-CGA-CBA	5.09	139.42	123.08
33	i8	202	CYC	CHB-C4A-NA	-5.09	114.29	124.93
33	eH	201	CYC	O1A-CGA-CBA	5.09	139.42	123.08
33	rB	201	CYC	CMA-C3A-C4A	5.09	132.90	125.06
33	i2	202	CYC	O1A-CGA-CBA	5.09	139.42	123.08
33	iH	202	CYC	O1A-CGA-CBA	5.08	139.42	123.08
33	e9	201	CYC	O1A-CGA-CBA	5.08	139.41	123.08
33	c6	201	CYC	CHB-C4A-NA	-5.08	114.30	124.93
33	k9	201	CYC	O1A-CGA-CBA	5.08	139.41	123.08
33	iI	202	CYC	O1A-CGA-CBA	5.08	139.41	123.08
33	eA	201	CYC	O1A-CGA-CBA	5.08	139.41	123.08
33	i6	202	CYC	O1A-CGA-CBA	5.08	139.41	123.08
33	YF	201	CYC	CHB-C4A-C3A	5.08	137.97	124.90
33	cJ	201	CYC	CHB-C4A-NA	-5.08	114.30	124.93
33	e8	201	CYC	O1A-CGA-CBA	5.08	139.40	123.08
33	YK	201	CYC	CHB-C4A-C3A	5.08	137.96	124.90
33	y4	201	CYC	C2B-C1B-NB	5.08	114.42	106.99
33	SB	201	CYC	CMA-C3A-C4A	5.08	132.89	125.06
33	CB	1003	CYC	OB-C4B-C3B	-5.08	122.53	128.04
33	dK	201	CYC	CHB-C4A-C3A	5.08	137.96	124.90
43	d1	407	BCR	C7-C8-C9	-5.08	118.56	126.23
33	e5	201	CYC	O1A-CGA-CBA	5.08	139.39	123.08
33	iA	202	CYC	O1A-CGA-CBA	5.08	139.39	123.08
33	fF	201	CYC	C2B-C1B-NB	5.07	114.42	106.99
33	g5	202	CYC	CHB-C4A-NA	-5.07	114.32	124.93
33	zB	201	CYC	OB-C4B-C3B	-5.07	122.53	128.04
33	i7	202	CYC	O1A-CGA-CBA	5.07	139.38	123.08
33	i8	202	CYC	O1A-CGA-CBA	5.07	139.38	123.08
33	dF	201	CYC	CHB-C4A-C3A	5.07	137.95	124.90
33	yB	201	CYC	C2B-C1B-NB	5.07	114.42	106.99
33	r4	201	CYC	CMA-C3A-C4A	5.07	132.88	125.06
33	6L	201	CYC	OB-C4B-C3B	-5.07	122.53	128.04
33	g8	202	CYC	CHB-C4A-NA	-5.07	114.32	124.93
33	B3	301	CYC	CHB-C4A-NA	-5.07	114.33	124.93
33	i9	202	CYC	O1A-CGA-CBA	5.07	139.37	123.08
33	eC	201	CYC	O1A-CGA-CBA	5.07	139.37	123.08
33	B6	301	CYC	CHB-C4A-NA	-5.07	114.33	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	cF	201	CYC	C1B-C2B-C3B	-5.07	102.58	107.87
33	gH	202	CYC	CHB-C4A-NA	-5.07	114.33	124.93
33	B7	301	CYC	CHB-C4A-NA	-5.07	114.33	124.93
33	e6	201	CYC	O1A-CGA-CBA	5.07	139.36	123.08
43	dE	407	BCR	C7-C8-C9	-5.07	118.58	126.23
33	B2	301	CYC	CHB-C4A-NA	-5.07	114.34	124.93
33	cI	201	CYC	CHB-C4A-NA	-5.07	114.34	124.93
33	i3	202	CYC	O1A-CGA-CBA	5.06	139.35	123.08
33	fK	201	CYC	C2B-C1B-NB	5.06	114.40	106.99
43	dD	407	BCR	C7-C8-C9	-5.06	118.58	126.23
33	hK	201	CYC	CHB-C4A-C3A	5.06	137.92	124.90
33	NG	201	CYC	OB-C4B-C3B	-5.06	122.55	128.04
33	k6	201	CYC	CHB-C4A-NA	-5.06	114.34	124.93
33	gJ	202	CYC	CHB-C4A-NA	-5.06	114.34	124.93
43	DD	407	BCR	C7-C8-C9	-5.06	118.59	126.23
43	D1	406	BCR	C7-C8-C9	-5.06	118.59	126.23
33	B9	301	CYC	CHB-C4A-NA	-5.06	114.35	124.93
33	kH	201	CYC	CHB-C4A-NA	-5.06	114.35	124.93
33	hF	201	CYC	CHB-C4A-C3A	5.06	137.91	124.90
43	DE	407	BCR	C7-C8-C9	-5.06	118.59	126.23
33	OL	201	CYC	CAB-C3B-C4B	5.06	129.37	121.38
43	ZE	102	BCR	C11-C10-C9	-5.06	120.09	127.31
33	BA	301	CYC	CHB-C4A-NA	-5.06	114.36	124.93
33	k5	201	CYC	CHB-C4A-NA	-5.05	114.36	124.93
33	k2	201	CYC	CHB-C4A-NA	-5.05	114.36	124.93
43	Z1	102	BCR	C11-C10-C9	-5.05	120.10	127.31
33	kC	201	CYC	CHB-C4A-NA	-5.05	114.36	124.93
33	VG	201	CYC	CAB-C3B-C4B	5.05	129.36	121.38
33	BC	301	CYC	CHB-C4A-NA	-5.05	114.36	124.93
33	k9	201	CYC	CHB-C4A-NA	-5.05	114.37	124.93
33	mF	201	CYC	CAB-C3B-C4B	5.05	129.35	121.38
33	k3	201	CYC	CHB-C4A-NA	-5.05	114.37	124.93
33	kI	201	CYC	CHB-C4A-NA	-5.05	114.37	124.93
33	4G	201	CYC	C2C-C1C-NC	5.05	112.62	108.27
33	k7	201	CYC	CHB-C4A-NA	-5.05	114.37	124.93
33	kA	201	CYC	CHB-C4A-NA	-5.05	114.37	124.93
33	OG	201	CYC	CAB-C3B-C4B	5.05	129.35	121.38
43	CD	521	BCR	C11-C10-C9	-5.04	120.11	127.31
33	NL	201	CYC	OB-C4B-C3B	-5.04	122.57	128.04
33	k8	201	CYC	CHB-C4A-NA	-5.04	114.39	124.93
43	kD	102	BCR	C11-C10-C9	-5.04	120.12	127.31
33	VL	201	CYC	CAB-C3B-C4B	5.04	129.34	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	mK	201	CYC	CAB-C3B-C4B	5.04	129.34	121.38
33	kJ	201	CYC	CHB-C4A-NA	-5.04	114.40	124.93
33	y4	201	CYC	OB-C4B-C3B	-5.04	122.58	128.04
33	yB	201	CYC	OB-C4B-C3B	-5.03	122.58	128.04
33	5L	201	CYC	C2B-C1B-NB	5.03	114.35	106.99
33	uB	201	CYC	C1B-C2B-C3B	-5.03	102.63	107.87
36	aE	406	CLA	CMB-C2B-C1B	-5.02	120.74	128.46
36	aD	406	CLA	CMB-C2B-C1B	-5.02	120.75	128.46
33	OB	201	CYC	CMA-C3A-C4A	5.02	132.80	125.06
33	5G	201	CYC	C2B-C1B-NB	5.02	114.33	106.99
43	DE	407	BCR	C11-C10-C9	-5.02	120.15	127.31
36	cD	512	CLA	CMB-C2B-C1B	-5.02	120.75	128.46
33	u4	201	CYC	C1B-C2B-C3B	-5.01	102.64	107.87
33	O4	201	CYC	CMA-C3A-C4A	5.01	132.78	125.06
33	yB	201	CYC	CHA-C1A-NA	-5.01	121.88	128.83
33	oB	201	CYC	CAB-C3B-C4B	5.01	129.29	121.38
43	DD	407	BCR	C11-C10-C9	-5.01	120.16	127.31
33	T4	201	CYC	CBD-CAD-C3D	-5.01	104.08	112.62
33	YF	201	CYC	CAB-C3B-C4B	5.01	129.28	121.38
36	cE	512	CLA	CMB-C2B-C1B	-5.01	120.77	128.46
36	c1	512	CLA	CMB-C2B-C1B	-5.00	120.77	128.46
33	o4	201	CYC	CAB-C3B-C4B	5.00	129.28	121.38
36	a1	407	CLA	CMB-C2B-C1B	-5.00	120.78	128.46
43	D1	406	BCR	C11-C10-C9	-5.00	120.17	127.31
33	4L	201	CYC	C2C-C1C-NC	5.00	112.58	108.27
33	y4	201	CYC	CHA-C1A-NA	-5.00	121.90	128.83
43	kE	102	BCR	C11-C10-C9	-5.00	120.18	127.31
33	r4	201	CYC	OB-C4B-C3B	-5.00	122.62	128.04
33	YK	201	CYC	CAB-C3B-C4B	4.99	129.27	121.38
36	cE	514	CLA	CMB-C2B-C1B	-4.99	120.79	128.46
36	AE	405	CLA	O2D-CGD-O1D	-4.99	114.09	123.84
36	cD	514	CLA	CMB-C2B-C1B	-4.99	120.80	128.46
33	TB	201	CYC	CBD-CAD-C3D	-4.98	104.12	112.62
36	AD	405	CLA	O2D-CGD-O1D	-4.98	114.10	123.84
43	d1	407	BCR	C11-C10-C9	-4.98	120.20	127.31
43	dD	407	BCR	C11-C10-C9	-4.98	120.20	127.31
33	hF	201	CYC	CAB-C3B-C4B	4.98	129.24	121.38
43	dE	407	BCR	C11-C10-C9	-4.98	120.21	127.31
33	dK	201	CYC	CAB-C3B-C4B	4.97	129.24	121.38
33	dF	201	CYC	CAB-C3B-C4B	4.97	129.23	121.38
33	P4	201	CYC	CAB-C3B-C4B	4.97	129.23	121.38
36	c1	514	CLA	CMB-C2B-C1B	-4.97	120.83	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	5L	201	CYC	C1B-C2B-C3B	-4.97	102.69	107.87
33	X4	201	CYC	CAB-C3B-C4B	4.96	129.22	121.38
33	OG	201	CYC	C2B-C1B-NB	4.96	114.25	106.99
33	OL	201	CYC	C2B-C1B-NB	4.96	114.25	106.99
33	HL	201	CYC	OC-C1C-C2C	-4.96	122.23	126.17
33	HG	201	CYC	OC-C1C-C2C	-4.96	122.23	126.17
33	kF	201	CYC	CHA-C1A-NA	-4.96	121.95	128.83
33	hK	201	CYC	CAB-C3B-C4B	4.96	129.21	121.38
33	5G	201	CYC	C1B-C2B-C3B	-4.96	102.70	107.87
36	A1	405	CLA	O2D-CGD-O1D	-4.96	114.15	123.84
38	hE	103	SQD	C1-O5-C5	4.95	123.41	113.69
33	TG	201	CYC	C2B-C1B-NB	4.95	114.24	106.99
33	TL	201	CYC	C2B-C1B-NB	4.95	114.24	106.99
33	ML	201	CYC	CMA-C3A-C4A	4.95	132.69	125.06
33	PB	201	CYC	CAB-C3B-C4B	4.95	129.20	121.38
33	rB	201	CYC	OB-C4B-C3B	-4.95	122.67	128.04
38	hD	103	SQD	C1-O5-C5	4.95	123.40	113.69
33	kK	201	CYC	CHA-C1A-NA	-4.95	121.97	128.83
33	MG	201	CYC	CMA-C3A-C4A	4.94	132.68	125.06
33	5G	201	CYC	CAB-C3B-C4B	4.94	129.18	121.38
33	5L	201	CYC	CAB-C3B-C4B	4.94	129.18	121.38
36	iE	101	CLA	CBA-CAA-C2A	4.94	128.44	113.86
38	h1	103	SQD	C1-O5-C5	4.94	123.38	113.69
33	XB	201	CYC	CAB-C3B-C4B	4.94	129.18	121.38
36	CD	513	CLA	CMB-C2B-C1B	-4.94	120.88	128.46
36	iD	101	CLA	CBA-CAA-C2A	4.93	128.43	113.86
36	CE	513	CLA	CMB-C2B-C1B	-4.93	120.88	128.46
36	c1	506	CLA	CBA-CAA-C2A	4.93	128.42	113.86
33	z4	201	CYC	C2A-C1A-NA	4.93	117.22	110.05
33	3K	102	CYC	CHB-C4A-C3A	4.93	137.58	124.90
33	kF	201	CYC	C2B-C1B-NB	4.93	114.20	106.99
36	C1	510	CLA	CMB-C2B-C1B	-4.93	120.89	128.46
36	CD	510	CLA	CMB-C2B-C1B	-4.93	120.89	128.46
33	3F	102	CYC	CHB-C4A-C3A	4.92	137.56	124.90
33	TB	201	CYC	C2B-C1B-NB	4.92	114.20	106.99
33	kK	201	CYC	C2B-C1B-NB	4.92	114.20	106.99
33	zB	201	CYC	C2A-C1A-NA	4.92	117.21	110.05
43	CD	516	BCR	C16-C17-C18	-4.92	120.29	127.31
33	2G	101	CYC	CHB-C4A-NA	-4.92	114.64	124.93
33	bJ	201	CYC	O2D-CGD-CBD	4.92	129.83	114.03
36	C1	513	CLA	CMB-C2B-C1B	-4.91	120.91	128.46
33	LF	201	CYC	C4A-C3A-C2A	-4.91	100.87	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	3F	102	CYC	C1B-C2B-C3B	-4.91	102.75	107.87
33	2L	101	CYC	CHB-C4A-NA	-4.91	114.66	124.93
36	CE	510	CLA	CMB-C2B-C1B	-4.91	120.92	128.46
33	b6	201	CYC	O2D-CGD-CBD	4.91	129.80	114.03
43	C1	516	BCR	C16-C17-C18	-4.91	120.31	127.31
33	bC	201	CYC	O2D-CGD-CBD	4.91	129.80	114.03
33	b3	201	CYC	O2D-CGD-CBD	4.90	129.79	114.03
33	b8	201	CYC	O2D-CGD-CBD	4.90	129.78	114.03
33	l8	201	CYC	O2D-CGD-CBD	4.90	129.78	114.03
33	l3	201	CYC	O2D-CGD-CBD	4.90	129.78	114.03
36	dE	403	CLA	CMB-C2B-C3B	4.90	133.85	124.68
33	h3	201	CYC	O2D-CGD-CBD	4.90	129.77	114.03
33	l6	201	CYC	O2D-CGD-CBD	4.90	129.77	114.03
33	bH	201	CYC	O2D-CGD-CBD	4.90	129.77	114.03
36	d1	403	CLA	CMB-C2B-C3B	4.90	133.84	124.68
33	b9	201	CYC	O2D-CGD-CBD	4.90	129.76	114.03
33	lJ	201	CYC	O2D-CGD-CBD	4.90	129.76	114.03
33	h2	201	CYC	O2D-CGD-CBD	4.89	129.76	114.03
33	l5	201	CYC	O2D-CGD-CBD	4.89	129.75	114.03
33	b7	201	CYC	O2D-CGD-CBD	4.89	129.75	114.03
33	lA	201	CYC	O2D-CGD-CBD	4.89	129.75	114.03
33	lI	201	CYC	O2D-CGD-CBD	4.89	129.75	114.03
33	T4	201	CYC	C2B-C1B-NB	4.89	114.15	106.99
33	lH	201	CYC	O2D-CGD-CBD	4.89	129.75	114.03
33	h9	201	CYC	O2D-CGD-CBD	4.89	129.75	114.03
33	hJ	201	CYC	O2D-CGD-CBD	4.89	129.75	114.03
33	l9	201	CYC	O2D-CGD-CBD	4.89	129.74	114.03
33	b5	201	CYC	O2D-CGD-CBD	4.89	129.74	114.03
33	bI	201	CYC	O2D-CGD-CBD	4.89	129.74	114.03
36	dD	403	CLA	CMB-C2B-C3B	4.89	133.82	124.68
43	CE	516	BCR	C16-C17-C18	-4.89	120.33	127.31
33	B4	1003	CYC	C2A-C1A-NA	4.89	117.16	110.05
33	h6	201	CYC	O2D-CGD-CBD	4.89	129.73	114.03
33	h8	201	CYC	O2D-CGD-CBD	4.89	129.73	114.03
33	hH	201	CYC	O2D-CGD-CBD	4.89	129.73	114.03
33	l7	201	CYC	O2D-CGD-CBD	4.89	129.73	114.03
33	l2	201	CYC	O2D-CGD-CBD	4.88	129.72	114.03
33	d2	201	CYC	O2D-CGD-CBD	4.88	129.72	114.03
33	bA	201	CYC	O2D-CGD-CBD	4.88	129.72	114.03
33	lC	201	CYC	O2D-CGD-CBD	4.88	129.72	114.03
33	hC	201	CYC	O2D-CGD-CBD	4.88	129.71	114.03
33	fC	201	CYC	O2D-CGD-CBD	4.88	129.71	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	LK	201	CYC	C4A-C3A-C2A	-4.88	100.91	106.51
33	f3	201	CYC	O2D-CGD-CBD	4.88	129.71	114.03
33	hI	201	CYC	O2D-CGD-CBD	4.88	129.71	114.03
33	b2	201	CYC	O2D-CGD-CBD	4.88	129.70	114.03
36	BE	608	CLA	CMB-C2B-C3B	4.88	133.81	124.68
33	d6	201	CYC	O2D-CGD-CBD	4.88	129.70	114.03
33	hA	201	CYC	O2D-CGD-CBD	4.88	129.70	114.03
39	d1	411	LMG	O7-C10-C11	4.88	122.01	111.50
33	h7	201	CYC	O2D-CGD-CBD	4.88	129.69	114.03
33	d3	201	CYC	O2D-CGD-CBD	4.87	129.69	114.03
33	d5	201	CYC	O2D-CGD-CBD	4.87	129.69	114.03
33	ML	201	CYC	C1B-C2B-C3B	-4.87	102.78	107.87
33	3K	102	CYC	C1B-C2B-C3B	-4.87	102.78	107.87
36	BD	608	CLA	CMB-C2B-C3B	4.87	133.80	124.68
36	C1	508	CLA	CHD-C1D-ND	-4.87	119.97	124.45
33	h5	201	CYC	O2D-CGD-CBD	4.87	129.69	114.03
33	d7	201	CYC	O2D-CGD-CBD	4.87	129.69	114.03
36	B1	608	CLA	CMB-C2B-C3B	4.87	133.79	124.68
33	dI	201	CYC	O2D-CGD-CBD	4.87	129.69	114.03
33	fI	201	CYC	O2D-CGD-CBD	4.87	129.69	114.03
33	jA	201	CYC	O2D-CGD-CBD	4.87	129.68	114.03
33	dC	201	CYC	O2D-CGD-CBD	4.87	129.68	114.03
33	fA	201	CYC	O2D-CGD-CBD	4.87	129.68	114.03
33	dH	201	CYC	O2D-CGD-CBD	4.87	129.68	114.03
33	KF	201	CYC	CMC-C2C-C1C	-4.87	101.90	112.40
33	jI	201	CYC	O2D-CGD-CBD	4.87	129.68	114.03
33	jJ	201	CYC	O2D-CGD-CBD	4.87	129.68	114.03
33	j2	201	CYC	O2D-CGD-CBD	4.87	129.68	114.03
33	fH	201	CYC	O2D-CGD-CBD	4.87	129.68	114.03
33	d9	201	CYC	O2D-CGD-CBD	4.87	129.67	114.03
33	d8	201	CYC	O2D-CGD-CBD	4.87	129.67	114.03
33	jC	201	CYC	O2D-CGD-CBD	4.87	129.67	114.03
33	j6	201	CYC	O2D-CGD-CBD	4.87	129.67	114.03
33	i3	202	CYC	CBC-CAC-C3C	-4.87	102.63	113.47
33	f2	201	CYC	O2D-CGD-CBD	4.87	129.67	114.03
33	jH	201	CYC	O2D-CGD-CBD	4.87	129.67	114.03
33	j3	201	CYC	O2D-CGD-CBD	4.86	129.66	114.03
33	dJ	201	CYC	O2D-CGD-CBD	4.86	129.66	114.03
33	TL	201	CYC	C1B-NB-C4B	-4.86	104.48	110.67
33	fJ	201	CYC	O2D-CGD-CBD	4.86	129.66	114.03
33	j8	201	CYC	O2D-CGD-CBD	4.86	129.66	114.03
33	KK	201	CYC	CMC-C2C-C1C	-4.86	101.92	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	j5	201	CYC	O2D-CGD-CBD	4.86	129.66	114.03
33	j9	201	CYC	O2D-CGD-CBD	4.86	129.65	114.03
39	dD	411	LMG	O7-C10-C11	4.86	121.98	111.50
33	V4	201	CYC	CAB-C3B-C4B	4.86	129.05	121.38
33	PB	201	CYC	C2B-C1B-NB	4.86	114.10	106.99
33	f8	201	CYC	O2D-CGD-CBD	4.86	129.64	114.03
33	f7	201	CYC	O2D-CGD-CBD	4.86	129.64	114.03
33	Q4	201	CYC	CMA-C3A-C4A	4.86	132.55	125.06
33	dA	201	CYC	O2D-CGD-CBD	4.86	129.64	114.03
33	f9	201	CYC	O2D-CGD-CBD	4.86	129.64	114.03
33	P4	201	CYC	C2B-C1B-NB	4.86	114.10	106.99
33	6G	201	CYC	OC-C1C-C2C	-4.86	122.31	126.17
33	f5	201	CYC	O2D-CGD-CBD	4.86	129.63	114.03
33	MG	201	CYC	C1B-C2B-C3B	-4.85	102.81	107.87
33	c8	201	CYC	CBC-CAC-C3C	-4.85	102.66	113.47
39	DE	411	LMG	O7-C10-C11	4.85	121.96	111.50
33	QB	201	CYC	CMA-C3A-C4A	4.85	132.54	125.06
33	c7	201	CYC	CBC-CAC-C3C	-4.85	102.66	113.47
33	i9	202	CYC	CBC-CAC-C3C	-4.85	102.66	113.47
33	f6	201	CYC	O2D-CGD-CBD	4.85	129.62	114.03
36	dD	406	CLA	CMB-C2B-C1B	-4.85	121.01	128.46
39	D1	410	LMG	O7-C10-C11	4.85	121.96	111.50
33	BB	1003	CYC	C2A-C1A-NA	4.85	117.11	110.05
33	c5	201	CYC	CBC-CAC-C3C	-4.85	102.67	113.47
33	iA	202	CYC	CBC-CAC-C3C	-4.85	102.67	113.47
33	iH	202	CYC	CBC-CAC-C3C	-4.85	102.67	113.47
33	iC	202	CYC	CBC-CAC-C3C	-4.85	102.67	113.47
33	HG	201	CYC	CBD-CAD-C3D	-4.85	104.34	112.62
33	i8	202	CYC	CBC-CAC-C3C	-4.85	102.67	113.47
36	d1	406	CLA	CMB-C2B-C1B	-4.85	121.01	128.46
36	dE	406	CLA	CMB-C2B-C1B	-4.85	121.01	128.46
36	c1	505	CLA	CMB-C2B-C3B	4.85	133.75	124.68
39	dE	411	LMG	O7-C10-C11	4.85	121.95	111.50
33	i5	202	CYC	CBC-CAC-C3C	-4.85	102.67	113.47
36	DE	406	CLA	CMB-C2B-C1B	-4.85	121.01	128.46
33	i2	202	CYC	CBC-CAC-C3C	-4.85	102.67	113.47
33	c6	201	CYC	CBC-CAC-C3C	-4.85	102.68	113.47
33	i6	202	CYC	CBC-CAC-C3C	-4.85	102.68	113.47
36	CD	508	CLA	CHD-C1D-ND	-4.85	120.00	124.45
33	iJ	202	CYC	CBC-CAC-C3C	-4.85	102.68	113.47
33	j7	201	CYC	O2D-CGD-CBD	4.85	129.60	114.03
33	VB	201	CYC	CAB-C3B-C4B	4.85	129.03	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	i7	202	CYC	CBC-CAC-C3C	-4.84	102.68	113.47
39	DD	411	LMG	O7-C10-C11	4.84	121.94	111.50
33	cF	201	CYC	C2A-C1A-NA	4.84	117.09	110.05
33	cJ	201	CYC	CBC-CAC-C3C	-4.84	102.69	113.47
33	ML	201	CYC	C1B-NB-C4B	-4.84	104.51	110.67
33	cK	201	CYC	C2A-C1A-NA	4.84	117.09	110.05
33	iI	202	CYC	CBC-CAC-C3C	-4.84	102.69	113.47
36	DD	406	CLA	CMB-C2B-C1B	-4.84	121.03	128.46
33	yB	201	CYC	C2C-C1C-NC	4.84	112.44	108.27
33	cC	201	CYC	CBC-CAC-C3C	-4.84	102.70	113.47
33	yB	201	CYC	CHB-C4A-NA	-4.84	114.82	124.93
33	MG	201	CYC	C1B-NB-C4B	-4.83	104.51	110.67
33	TG	201	CYC	C1B-NB-C4B	-4.83	104.52	110.67
36	D1	405	CLA	CMB-C2B-C1B	-4.83	121.04	128.46
43	ZE	101	BCR	C24-C23-C22	-4.83	118.93	126.23
33	HL	201	CYC	CBD-CAD-C3D	-4.83	104.38	112.62
33	cH	201	CYC	CBC-CAC-C3C	-4.83	102.71	113.47
33	y4	201	CYC	C2C-C1C-NC	4.83	112.44	108.27
45	DD	401	PHO	CMA-C3A-C2A	-4.83	94.56	113.99
36	cD	506	CLA	CMB-C2B-C3B	4.82	133.71	124.68
33	BB	1003	CYC	CBA-CAA-C2A	4.82	126.03	112.63
33	c9	201	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
33	cA	201	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
33	c3	201	CYC	CBC-CAC-C3C	-4.82	102.73	113.47
43	ZD	101	BCR	C24-C23-C22	-4.82	118.95	126.23
36	cE	506	CLA	CMB-C2B-C3B	4.82	133.69	124.68
33	cI	201	CYC	CBC-CAC-C3C	-4.82	102.74	113.47
33	c2	201	CYC	CBC-CAC-C3C	-4.82	102.74	113.47
33	eI	201	CYC	CBC-CAC-C3C	-4.82	102.74	113.47
33	ZB	201	CYC	OB-C4B-C3B	-4.82	122.81	128.04
33	Z4	201	CYC	OB-C4B-C3B	-4.82	122.81	128.04
33	LG	201	CYC	C2A-C1A-NA	4.82	117.05	110.05
43	k1	102	BCR	C3-C4-C5	-4.81	105.48	114.08
33	B4	1003	CYC	CBA-CAA-C2A	4.81	126.00	112.63
33	e8	201	CYC	CBC-CAC-C3C	-4.81	102.75	113.47
33	V4	201	CYC	C1A-C2A-C3A	-4.81	101.46	106.78
33	eJ	201	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
33	LL	201	CYC	C2A-C1A-NA	4.81	117.04	110.05
33	e6	201	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
33	e9	201	CYC	CBC-CAC-C3C	-4.81	102.76	113.47
33	e2	201	CYC	CBC-CAC-C3C	-4.81	102.77	113.47
33	e5	201	CYC	CBC-CAC-C3C	-4.81	102.77	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	CD	521	BCR	C3-C4-C5	-4.81	105.50	114.08
43	ZE	102	BCR	C3-C4-C5	-4.81	105.50	114.08
33	e3	201	CYC	CBC-CAC-C3C	-4.80	102.77	113.47
33	y4	201	CYC	CHB-C4A-NA	-4.80	114.89	124.93
43	z1	101	BCR	C24-C23-C22	-4.80	118.98	126.23
33	2L	101	CYC	C2B-C1B-NB	4.80	114.02	106.99
33	fF	201	CYC	C1B-C2B-C3B	-4.80	102.86	107.87
33	eC	201	CYC	CBC-CAC-C3C	-4.80	102.78	113.47
33	e7	201	CYC	CBC-CAC-C3C	-4.80	102.78	113.47
33	eA	201	CYC	CBC-CAC-C3C	-4.80	102.78	113.47
43	Z1	101	BCR	C24-C23-C22	-4.80	118.98	126.23
33	6G	201	CYC	C2C-C1C-NC	4.80	112.41	108.27
36	CE	508	CLA	CHD-C1D-ND	-4.80	120.05	124.45
33	eH	201	CYC	CBC-CAC-C3C	-4.80	102.79	113.47
43	h1	105	BCR	C31-C1-C6	-4.80	102.52	110.30
33	k7	201	CYC	CBC-CAC-C3C	-4.79	102.79	113.47
33	kJ	201	CYC	CBC-CAC-C3C	-4.79	102.80	113.47
43	BE	616	BCR	C15-C14-C13	-4.79	120.47	127.31
43	kD	102	BCR	C3-C4-C5	-4.79	105.52	114.08
33	9K	201	CYC	CAB-C3B-C4B	4.79	128.94	121.38
33	2G	101	CYC	C2B-C1B-NB	4.79	114.00	106.99
43	zE	101	BCR	C24-C23-C22	-4.79	119.00	126.23
33	6L	201	CYC	OC-C1C-C2C	-4.79	122.37	126.17
33	VB	201	CYC	C1A-C2A-C3A	-4.79	101.48	106.78
33	gJ	202	CYC	CBC-CAC-C3C	-4.79	102.81	113.47
33	GL	201	CYC	C1B-NB-C4B	-4.79	104.58	110.67
33	C4	1002	CYC	C1B-NB-C4B	-4.79	104.58	110.67
33	B2	301	CYC	CBC-CAC-C3C	-4.79	102.81	113.47
43	zD	101	BCR	C24-C23-C22	-4.79	119.00	126.23
33	g5	202	CYC	CBC-CAC-C3C	-4.79	102.81	113.47
33	9F	201	CYC	CAB-C3B-C4B	4.78	128.94	121.38
33	kI	201	CYC	CBC-CAC-C3C	-4.78	102.82	113.47
33	BC	301	CYC	CBC-CAC-C3C	-4.78	102.82	113.47
36	b1	607	CLA	O2D-CGD-CBD	4.78	119.77	111.27
43	kE	102	BCR	C3-C4-C5	-4.78	105.54	114.08
43	Z1	102	BCR	C3-C4-C5	-4.78	105.54	114.08
33	B4	1003	CYC	CAB-C3B-C4B	4.78	128.93	121.38
43	hD	105	BCR	C31-C1-C6	-4.78	102.55	110.30
33	k3	201	CYC	CBC-CAC-C3C	-4.78	102.83	113.47
33	kH	201	CYC	CBC-CAC-C3C	-4.78	102.83	113.47
33	B3	301	CYC	CBC-CAC-C3C	-4.78	102.83	113.47
33	B7	301	CYC	CBC-CAC-C3C	-4.78	102.83	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	B1	616	BCR	C15-C14-C13	-4.77	120.50	127.31
33	gH	202	CYC	CBC-CAC-C3C	-4.77	102.84	113.47
33	z4	201	CYC	CHA-C1A-C2A	-4.77	114.29	125.32
33	fK	201	CYC	C1B-C2B-C3B	-4.77	102.89	107.87
33	kA	201	CYC	CBC-CAC-C3C	-4.77	102.84	113.47
33	B9	301	CYC	CBC-CAC-C3C	-4.77	102.84	113.47
43	hE	105	BCR	C31-C1-C6	-4.77	102.56	110.30
33	BA	301	CYC	CBC-CAC-C3C	-4.77	102.84	113.47
33	6L	201	CYC	C2C-C1C-NC	4.77	112.39	108.27
33	CB	1002	CYC	C1B-NB-C4B	-4.77	104.60	110.67
33	rB	201	CYC	OC-C1C-C2C	-4.77	122.38	126.17
33	k5	201	CYC	CBC-CAC-C3C	-4.77	102.85	113.47
33	kC	201	CYC	CBC-CAC-C3C	-4.77	102.85	113.47
33	k9	201	CYC	CBC-CAC-C3C	-4.77	102.85	113.47
33	AG	201	CYC	CHA-C1A-NA	-4.77	122.22	128.83
33	k2	201	CYC	CBC-CAC-C3C	-4.77	102.86	113.47
33	zB	201	CYC	CHA-C1A-C2A	-4.76	114.32	125.32
33	bF	201	CYC	OB-C4B-C3B	-4.76	122.87	128.04
33	B6	301	CYC	CBC-CAC-C3C	-4.76	102.87	113.47
33	k6	201	CYC	CBC-CAC-C3C	-4.76	102.88	113.47
36	B1	611	CLA	CAA-CBA-CGA	-4.76	99.35	113.25
36	bE	612	CLA	CAA-CBA-CGA	-4.76	99.35	113.25
36	aE	405	CLA	O2D-CGD-O1D	-4.76	114.54	123.84
36	bE	607	CLA	O2D-CGD-CBD	4.76	119.72	111.27
33	BI	301	CYC	CBC-CAC-C3C	-4.75	102.88	113.47
33	AL	201	CYC	CHA-C1A-NA	-4.75	122.23	128.83
33	bK	201	CYC	OB-C4B-C3B	-4.75	122.88	128.04
33	BB	1003	CYC	CAB-C3B-C4B	4.75	128.89	121.38
43	bD	617	BCR	C15-C14-C13	-4.75	120.53	127.31
36	bD	608	CLA	CMB-C2B-C3B	4.75	133.57	124.68
33	k8	201	CYC	CBC-CAC-C3C	-4.75	102.89	113.47
33	nK	201	CYC	CMA-C3A-C4A	4.75	132.38	125.06
33	GG	201	CYC	C1B-NB-C4B	-4.75	104.62	110.67
33	nF	201	CYC	CMA-C3A-C4A	4.75	132.38	125.06
33	g8	202	CYC	CBC-CAC-C3C	-4.75	102.89	113.47
43	bE	617	BCR	C15-C14-C13	-4.75	120.53	127.31
36	b1	608	CLA	CMB-C2B-C3B	4.75	133.56	124.68
36	BD	611	CLA	CAA-CBA-CGA	-4.75	99.38	113.25
36	b1	612	CLA	CAA-CBA-CGA	-4.75	99.38	113.25
36	a1	406	CLA	O2D-CGD-O1D	-4.75	114.56	123.84
33	cF	201	CYC	CAB-C3B-C4B	4.75	128.88	121.38
36	aD	405	CLA	O2D-CGD-O1D	-4.74	114.56	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BE	611	CLA	CAA-CBA-CGA	-4.74	99.39	113.25
36	bD	612	CLA	CAA-CBA-CGA	-4.74	99.39	113.25
36	BE	605	CLA	O2D-CGD-CBD	4.74	119.69	111.27
36	bD	607	CLA	O2D-CGD-CBD	4.74	119.69	111.27
33	cK	201	CYC	CAB-C3B-C4B	4.74	128.87	121.38
43	BD	616	BCR	C15-C14-C13	-4.74	120.55	127.31
33	y4	201	CYC	CMA-C3A-C4A	4.74	132.36	125.06
33	bF	201	CYC	CAB-C3B-C4B	4.74	128.86	121.38
36	bE	608	CLA	CMB-C2B-C3B	4.74	133.54	124.68
38	h1	103	SQD	O8-S-C6	4.74	113.29	105.74
38	hD	103	SQD	O8-S-C6	4.73	113.28	105.74
33	bK	201	CYC	CAB-C3B-C4B	4.73	128.85	121.38
43	b1	617	BCR	C15-C14-C13	-4.73	120.56	127.31
36	BD	605	CLA	O2D-CGD-CBD	4.73	119.67	111.27
38	hE	103	SQD	O8-S-C6	4.73	113.27	105.74
33	yB	201	CYC	CMA-C3A-C4A	4.72	132.34	125.06
36	BE	606	CLA	CMB-C2B-C3B	4.72	133.51	124.68
43	XD	102	BCR	C31-C1-C6	-4.72	102.64	110.30
33	X4	201	CYC	CHB-C4A-NA	-4.72	115.07	124.93
33	r4	201	CYC	OC-C1C-C2C	-4.72	122.42	126.17
33	B4	1003	CYC	CMA-C3A-C4A	4.72	132.32	125.06
33	OG	201	CYC	OC-C1C-C2C	-4.71	122.42	126.17
33	XB	201	CYC	CHB-C4A-NA	-4.71	115.08	124.93
43	cD	519	BCR	C11-C10-C9	-4.71	120.59	127.31
33	sB	201	CYC	CAB-C3B-C4B	4.71	128.82	121.38
33	dC	201	CYC	CHB-C4A-NA	-4.71	115.08	124.93
43	X1	102	BCR	C31-C1-C6	-4.71	102.66	110.30
36	B1	605	CLA	O2D-CGD-CBD	4.71	119.63	111.27
43	BD	615	BCR	C30-C25-C26	-4.71	115.99	122.61
43	b1	616	BCR	C30-C25-C26	-4.71	115.99	122.61
33	d8	201	CYC	CHB-C4A-NA	-4.70	115.09	124.93
43	bD	616	BCR	C30-C25-C26	-4.70	115.99	122.61
33	dI	201	CYC	CHB-C4A-NA	-4.70	115.09	124.93
33	s4	201	CYC	CAB-C3B-C4B	4.70	128.81	121.38
43	B1	615	BCR	C30-C25-C26	-4.70	115.99	122.61
36	BD	606	CLA	CMB-C2B-C3B	4.70	133.47	124.68
33	b7	201	CYC	CHB-C4A-NA	-4.70	115.10	124.93
33	BB	1003	CYC	CMA-C3A-C4A	4.70	132.30	125.06
43	CE	516	BCR	C11-C10-C9	-4.70	120.60	127.31
33	fA	201	CYC	CHB-C4A-NA	-4.70	115.10	124.93
33	NG	201	CYC	CHA-C1A-NA	-4.70	122.31	128.83
33	d3	201	CYC	CHB-C4A-NA	-4.70	115.11	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	JG	201	CYC	C2B-C1B-NB	4.70	113.86	106.99
33	f8	201	CYC	CHB-C4A-NA	-4.70	115.11	124.93
33	d6	201	CYC	CHB-C4A-NA	-4.70	115.11	124.93
43	bE	616	BCR	C30-C25-C26	-4.70	116.00	122.61
33	b6	201	CYC	CHB-C4A-NA	-4.70	115.11	124.93
33	lC	201	CYC	CHB-C4A-NA	-4.70	115.11	124.93
33	fl	201	CYC	CHB-C4A-NA	-4.70	115.11	124.93
33	NL	201	CYC	CHA-C1A-NA	-4.69	122.32	128.83
33	dA	201	CYC	CHB-C4A-NA	-4.69	115.11	124.93
33	d7	201	CYC	CHB-C4A-NA	-4.69	115.11	124.93
33	XK	201	CYC	OC-C1C-C2C	-4.69	122.44	126.17
43	XE	102	BCR	C31-C1-C6	-4.69	102.69	110.30
33	PG	201	CYC	C2B-C1B-NB	4.69	113.86	106.99
33	dJ	201	CYC	CHB-C4A-NA	-4.69	115.12	124.93
43	c1	519	BCR	C11-C10-C9	-4.69	120.61	127.31
33	bI	201	CYC	CHB-C4A-NA	-4.69	115.12	124.93
33	OL	201	CYC	OC-C1C-C2C	-4.69	122.44	126.17
33	NG	201	CYC	C2B-C1B-NB	4.69	113.86	106.99
33	dH	201	CYC	CHB-C4A-NA	-4.69	115.12	124.93
43	eE	519	BCR	C11-C10-C9	-4.69	120.62	127.31
33	l5	201	CYC	CHB-C4A-NA	-4.69	115.12	124.93
45	d1	402	PHO	C14-C13-C12	4.69	128.27	111.29
43	C1	516	BCR	C11-C10-C9	-4.69	120.62	127.31
33	f6	201	CYC	CHB-C4A-NA	-4.69	115.13	124.93
33	l8	201	CYC	CHB-C4A-NA	-4.69	115.13	124.93
33	lI	201	CYC	CHB-C4A-NA	-4.69	115.13	124.93
33	PL	201	CYC	C2B-C1B-NB	4.69	113.85	106.99
33	d5	201	CYC	CHB-C4A-NA	-4.69	115.13	124.93
33	JL	201	CYC	C2B-C1B-NB	4.69	113.85	106.99
33	b2	201	CYC	CHB-C4A-NA	-4.69	115.13	124.93
33	d2	201	CYC	CHB-C4A-NA	-4.68	115.13	124.93
33	l2	201	CYC	CHB-C4A-NA	-4.68	115.13	124.93
33	fC	201	CYC	CHB-C4A-NA	-4.68	115.14	124.93
33	lH	201	CYC	CHB-C4A-NA	-4.68	115.14	124.93
33	fH	201	CYC	CHB-C4A-NA	-4.68	115.14	124.93
33	TG	201	CYC	C1B-C2B-C3B	-4.68	102.98	107.87
33	b9	201	CYC	CHB-C4A-NA	-4.68	115.14	124.93
33	d9	201	CYC	CHB-C4A-NA	-4.68	115.14	124.93
33	bH	201	CYC	CHB-C4A-NA	-4.68	115.14	124.93
33	l6	201	CYC	CHB-C4A-NA	-4.68	115.14	124.93
33	l9	201	CYC	CHB-C4A-NA	-4.68	115.14	124.93
43	BE	615	BCR	C30-C25-C26	-4.68	116.02	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	b3	201	CYC	CHB-C4A-NA	-4.68	115.14	124.93
33	l3	201	CYC	CHB-C4A-NA	-4.68	115.14	124.93
43	CD	516	BCR	C11-C10-C9	-4.68	120.63	127.31
33	b8	201	CYC	CHB-C4A-NA	-4.68	115.15	124.93
33	eF	201	CYC	CHB-C4A-C3A	4.68	136.93	124.90
33	lA	201	CYC	CHB-C4A-NA	-4.68	115.15	124.93
33	f3	201	CYC	CHB-C4A-NA	-4.68	115.15	124.93
33	f2	201	CYC	CHB-C4A-NA	-4.68	115.15	124.93
33	bA	201	CYC	CHB-C4A-NA	-4.68	115.15	124.93
33	NL	201	CYC	C2B-C1B-NB	4.67	113.83	106.99
33	lJ	201	CYC	CHB-C4A-NA	-4.67	115.16	124.93
36	B1	606	CLA	CMB-C2B-C3B	4.67	133.41	124.68
33	jC	201	CYC	CHB-C4A-NA	-4.67	115.17	124.93
33	j7	201	CYC	CHB-C4A-NA	-4.67	115.17	124.93
33	b5	201	CYC	CHB-C4A-NA	-4.67	115.17	124.93
33	fJ	201	CYC	CHB-C4A-NA	-4.67	115.17	124.93
33	l7	201	CYC	CHB-C4A-NA	-4.67	115.17	124.93
33	eK	201	CYC	CHB-C4A-C3A	4.67	136.90	124.90
33	cK	201	CYC	C1B-NB-C4B	-4.67	104.73	110.67
33	bC	201	CYC	CHB-C4A-NA	-4.67	115.17	124.93
36	c1	506	CLA	CAA-C2A-C3A	-4.67	100.00	112.78
33	PL	201	CYC	C1B-NB-C4B	-4.67	104.73	110.67
33	bJ	201	CYC	CHB-C4A-NA	-4.67	115.17	124.93
33	B4	1004	CYC	OB-C4B-C3B	-4.66	122.98	128.04
33	f5	201	CYC	CHB-C4A-NA	-4.66	115.18	124.93
33	vB	201	CYC	C2B-C1B-NB	4.66	113.81	106.99
33	jI	201	CYC	CHB-C4A-NA	-4.66	115.18	124.93
36	iD	101	CLA	CAA-C2A-C3A	-4.66	100.01	112.78
33	f9	201	CYC	CHB-C4A-NA	-4.66	115.18	124.93
33	jJ	201	CYC	CHB-C4A-NA	-4.66	115.18	124.93
33	XF	201	CYC	OC-C1C-C2C	-4.66	122.47	126.17
33	f7	201	CYC	CHB-C4A-NA	-4.66	115.19	124.93
36	iE	101	CLA	CAA-C2A-C3A	-4.66	100.02	112.78
33	PG	201	CYC	C1B-NB-C4B	-4.66	104.74	110.67
33	KF	201	CYC	CAB-C3B-C4B	4.66	128.73	121.38
33	qB	201	CYC	C2B-C1B-NB	4.65	113.80	106.99
33	RL	201	CYC	CHB-C4A-NA	-4.65	115.20	124.93
33	BB	1002	CYC	CAB-C3B-C4B	4.65	128.72	121.38
33	jH	201	CYC	CHB-C4A-NA	-4.65	115.21	124.93
33	j2	201	CYC	CHB-C4A-NA	-4.65	115.21	124.93
33	j3	201	CYC	CHB-C4A-NA	-4.65	115.22	124.93
33	LL	201	CYC	OC-C1C-C2C	-4.64	122.48	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	r4	201	CYC	CBD-CAD-C3D	4.64	120.55	112.62
33	TL	201	CYC	C1B-C2B-C3B	-4.64	103.03	107.87
33	v4	201	CYC	C2B-C1B-NB	4.64	113.78	106.99
33	j8	201	CYC	CHB-C4A-NA	-4.64	115.22	124.93
33	jA	201	CYC	CHB-C4A-NA	-4.64	115.23	124.93
33	GL	201	CYC	C2B-C1B-NB	4.64	113.78	106.99
33	B4	1002	CYC	CAB-C3B-C4B	4.64	128.70	121.38
33	QG	201	CYC	OB-C4B-C3B	-4.64	123.01	128.04
33	gK	201	CYC	OB-C4B-C3B	-4.64	123.01	128.04
33	j9	201	CYC	CHB-C4A-NA	-4.64	115.23	124.93
33	q4	201	CYC	C2B-C1B-NB	4.64	113.78	106.99
33	TG	201	CYC	CMA-C3A-C4A	4.64	132.20	125.06
33	gF	201	CYC	OB-C4B-C3B	-4.64	123.01	128.04
33	LG	201	CYC	OC-C1C-C2C	-4.63	122.49	126.17
33	RG	201	CYC	CHB-C4A-NA	-4.63	115.24	124.93
33	bK	201	CYC	C2C-C1C-NC	4.63	112.27	108.27
33	rB	201	CYC	CBD-CAD-C3D	4.63	120.53	112.62
33	SB	201	CYC	CAB-C3B-C4B	4.63	128.69	121.38
33	j6	201	CYC	CHB-C4A-NA	-4.63	115.24	124.93
33	S4	201	CYC	CAB-C3B-C4B	4.63	128.69	121.38
33	5L	201	CYC	OB-C4B-C3B	-4.63	123.02	128.04
33	1L	201	CYC	CHB-C4A-C3A	4.63	136.81	124.90
33	vB	201	CYC	C1B-NB-C4B	-4.63	104.78	110.67
33	cF	201	CYC	C1B-NB-C4B	-4.63	104.78	110.67
33	BB	1004	CYC	OB-C4B-C3B	-4.63	123.02	128.04
33	j5	201	CYC	CHB-C4A-NA	-4.63	115.25	124.93
33	KK	201	CYC	CAB-C3B-C4B	4.63	128.69	121.38
33	TL	201	CYC	CMA-C3A-C4A	4.63	132.19	125.06
33	hJ	201	CYC	CHB-C4A-NA	-4.62	115.26	124.93
36	A1	404	CLA	CMB-C2B-C3B	4.62	133.32	124.68
33	eK	201	CYC	CAA-C2A-C1A	4.62	133.18	125.01
33	5G	201	CYC	OB-C4B-C3B	-4.62	123.03	128.04
33	GG	201	CYC	C2B-C1B-NB	4.62	113.75	106.99
33	LF	201	CYC	C1B-NB-C4B	-4.62	104.79	110.67
33	V4	201	CYC	C1B-NB-C4B	-4.61	104.79	110.67
33	h3	201	CYC	CHB-C4A-NA	-4.61	115.28	124.93
33	QL	201	CYC	OB-C4B-C3B	-4.61	123.03	128.04
33	1G	201	CYC	CHB-C4A-C3A	4.61	136.76	124.90
33	h5	201	CYC	CHB-C4A-NA	-4.61	115.29	124.93
33	hA	201	CYC	CHB-C4A-NA	-4.61	115.29	124.93
33	ZF	201	CYC	CHB-C4A-NA	-4.61	115.29	124.93
33	VB	201	CYC	C1B-NB-C4B	-4.61	104.80	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	kF	201	CYC	CAB-C3B-C4B	4.61	128.66	121.38
33	VG	201	CYC	C2B-C1B-NB	4.61	113.73	106.99
33	kK	201	CYC	CAB-C3B-C4B	4.60	128.65	121.38
33	AG	201	CYC	C2C-C1C-NC	4.60	112.24	108.27
36	AD	404	CLA	CMB-C2B-C3B	4.60	133.29	124.68
33	ZK	201	CYC	CHB-C4A-NA	-4.60	115.30	124.93
33	b4	101	CYC	CAB-C3B-C4B	4.60	128.65	121.38
33	bF	201	CYC	C2C-C1C-NC	4.60	112.24	108.27
33	eF	201	CYC	CAA-C2A-C1A	4.60	133.15	125.01
33	hC	201	CYC	CHB-C4A-NA	-4.60	115.31	124.93
33	hH	201	CYC	CHB-C4A-NA	-4.60	115.32	124.93
33	h7	201	CYC	CHB-C4A-NA	-4.59	115.32	124.93
33	VL	201	CYC	C2B-C1B-NB	4.59	113.71	106.99
33	hI	201	CYC	CHB-C4A-NA	-4.59	115.33	124.93
33	nF	201	CYC	OB-C4B-C3B	-4.59	123.06	128.04
33	WL	201	CYC	CAB-C3B-C4B	4.59	128.63	121.38
33	a4	201	CYC	CAB-C3B-C4B	4.59	128.63	121.38
33	nK	201	CYC	OB-C4B-C3B	-4.59	123.06	128.04
33	a4	201	CYC	CBB-CAB-C3B	-4.59	99.78	112.43
33	h6	201	CYC	CHB-C4A-NA	-4.59	115.34	124.93
33	h9	201	CYC	CHB-C4A-NA	-4.59	115.34	124.93
33	aB	201	CYC	CBB-CAB-C3B	-4.59	99.79	112.43
33	v4	201	CYC	C1B-NB-C4B	-4.59	104.83	110.67
33	WG	201	CYC	CAB-C3B-C4B	4.59	128.62	121.38
33	B4	1003	CYC	CHB-C4A-NA	-4.58	115.35	124.93
45	D1	402	PHO	C14-C13-C15	4.58	127.89	111.29
33	h2	201	CYC	CHB-C4A-NA	-4.58	115.35	124.93
33	h8	201	CYC	CHB-C4A-NA	-4.58	115.35	124.93
36	AE	404	CLA	CMB-C2B-C3B	4.58	133.24	124.68
33	BB	1003	CYC	CHB-C4A-NA	-4.58	115.36	124.93
33	LK	201	CYC	C1B-NB-C4B	-4.57	104.84	110.67
42	e1	101	LHG	O7-C7-C8	4.57	121.36	111.50
33	C4	1003	CYC	CAB-C3B-C4B	4.57	128.60	121.38
33	uB	201	CYC	C2B-C1B-NB	4.57	113.68	106.99
33	GG	201	CYC	CMA-C3A-C4A	4.57	132.10	125.06
33	GL	201	CYC	CMA-C3A-C4A	4.57	132.10	125.06
33	AG	201	CYC	C1B-NB-C4B	-4.57	104.85	110.67
33	AL	201	CYC	C1B-NB-C4B	-4.57	104.85	110.67
33	3F	101	CYC	OB-C4B-C3B	-4.57	123.08	128.04
33	u4	201	CYC	C2B-C1B-NB	4.57	113.67	106.99
33	AL	201	CYC	C2C-C1C-NC	4.57	112.21	108.27
33	aB	201	CYC	CAB-C3B-C4B	4.56	128.59	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	eE	101	LHG	O7-C7-C8	4.56	121.33	111.50
33	CB	1003	CYC	CAB-C3B-C4B	4.56	128.58	121.38
33	bB	101	CYC	CHB-C4A-C3A	4.56	136.62	124.90
33	bB	101	CYC	CAB-C3B-C4B	4.55	128.57	121.38
33	mF	201	CYC	C2B-C1B-NB	4.55	113.66	106.99
42	eD	101	LHG	O7-C7-C8	4.55	121.31	111.50
33	3K	101	CYC	OB-C4B-C3B	-4.55	123.10	128.04
33	mK	201	CYC	C2B-C1B-NB	4.55	113.65	106.99
45	aD	412	PHO	CBA-CAA-C2A	4.55	127.11	113.81
33	qB	201	CYC	C1B-NB-C4B	-4.55	104.88	110.67
33	aF	201	CYC	C1B-NB-C4B	-4.55	104.88	110.67
33	b4	101	CYC	CHB-C4A-C3A	4.54	136.59	124.90
33	TB	201	CYC	C1B-NB-C4B	-4.54	104.89	110.67
33	LL	201	CYC	CMC-C2C-C1C	-4.54	102.61	112.40
33	aK	201	CYC	C1B-NB-C4B	-4.54	104.89	110.67
45	DD	401	PHO	CBA-CAA-C2A	4.54	127.07	113.81
33	LG	201	CYC	CMC-C2C-C1C	-4.54	102.62	112.40
33	q4	201	CYC	C1B-NB-C4B	-4.54	104.89	110.67
33	T4	201	CYC	C4D-CHA-C1A	4.53	134.22	128.81
36	c1	508	CLA	CMB-C2B-C1B	-4.53	121.50	128.46
33	b4	101	CYC	C2B-C1B-NB	4.53	113.62	106.99
33	NG	201	CYC	C1B-NB-C4B	-4.53	104.90	110.67
33	4G	201	CYC	C2B-C1B-NB	4.53	113.62	106.99
33	9K	201	CYC	CHA-C1A-NA	-4.53	122.55	128.83
36	CE	515	CLA	CMB-C2B-C3B	4.53	133.15	124.68
33	RL	201	CYC	C2B-C1B-NB	4.53	113.61	106.99
33	4L	201	CYC	C2B-C1B-NB	4.52	113.61	106.99
43	ID	102	BCR	C16-C17-C18	-4.52	120.86	127.31
33	bB	101	CYC	C2B-C1B-NB	4.52	113.61	106.99
33	TB	201	CYC	C4D-CHA-C1A	4.52	134.21	128.81
43	ZE	102	BCR	C15-C14-C13	-4.52	120.86	127.31
33	6G	201	CYC	C2B-C1B-NB	4.52	113.60	106.99
33	RB	201	CYC	C2B-C1B-NB	4.52	113.60	106.99
43	I1	102	BCR	C16-C17-C18	-4.52	120.86	127.31
36	C1	507	CLA	CBA-CAA-C2A	4.52	127.19	113.86
33	R4	201	CYC	C2B-C1B-NB	4.52	113.60	106.99
33	NL	201	CYC	C1B-NB-C4B	-4.51	104.92	110.67
33	T4	201	CYC	C1B-NB-C4B	-4.51	104.92	110.67
36	cE	508	CLA	CMB-C2B-C1B	-4.51	121.53	128.46
36	CD	507	CLA	CBA-CAA-C2A	4.51	127.18	113.86
36	CE	507	CLA	CBA-CAA-C2A	4.51	127.18	113.86
33	9F	201	CYC	CHA-C1A-NA	-4.51	122.57	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	Z1	102	BCR	C15-C14-C13	-4.51	120.88	127.31
45	d1	402	PHO	CBA-CAA-C2A	4.50	126.97	113.81
33	RG	201	CYC	C2B-C1B-NB	4.50	113.58	106.99
36	CD	508	CLA	CMD-C2D-C1D	-4.50	116.78	124.71
36	C1	515	CLA	CMB-C2B-C3B	4.50	133.10	124.68
43	IE	102	BCR	C16-C17-C18	-4.50	120.89	127.31
36	cD	508	CLA	CMB-C2B-C1B	-4.50	121.55	128.46
36	I1	101	CLA	CMB-C2B-C1B	-4.50	121.55	128.46
43	kE	102	BCR	C15-C14-C13	-4.50	120.89	127.31
36	CD	515	CLA	CMB-C2B-C3B	4.50	133.09	124.68
33	gK	201	CYC	C2A-C1A-NA	4.50	116.59	110.05
33	OL	201	CYC	C1B-C2B-C3B	-4.49	103.18	107.87
43	CD	521	BCR	C15-C14-C13	-4.49	120.90	127.31
33	6L	201	CYC	C2B-C1B-NB	4.49	113.56	106.99
33	B4	1003	CYC	CMB-C2B-C1B	4.49	129.78	124.17
33	BB	1003	CYC	CMB-C2B-C1B	4.49	129.77	124.17
33	IK	201	CYC	CHB-C4A-C3A	4.49	136.44	124.90
36	ID	101	CLA	CMB-C2B-C1B	-4.49	121.57	128.46
43	kD	102	BCR	C15-C14-C13	-4.49	120.91	127.31
33	kF	201	CYC	C1B-NB-C4B	-4.49	104.96	110.67
33	gF	201	CYC	C2A-C1A-NA	4.48	116.57	110.05
36	IE	101	CLA	CMB-C2B-C1B	-4.48	121.57	128.46
36	C1	508	CLA	CMD-C2D-C1D	-4.48	116.81	124.71
33	LF	201	CYC	C2B-C1B-NB	4.48	113.55	106.99
33	IF	201	CYC	CHB-C4A-C3A	4.48	136.42	124.90
33	kK	201	CYC	C1B-NB-C4B	-4.48	104.96	110.67
33	OG	201	CYC	C1B-C2B-C3B	-4.48	103.19	107.87
33	gK	201	CYC	C2B-C1B-NB	4.48	113.55	106.99
36	cD	507	CLA	CMD-C2D-C3D	4.48	137.91	127.61
36	c1	507	CLA	CMD-C2D-C3D	4.47	137.91	127.61
36	cE	507	CLA	CMD-C2D-C3D	4.47	137.90	127.61
36	CE	508	CLA	CMD-C2D-C1D	-4.47	116.83	124.71
33	3K	102	CYC	CAA-C2A-C3A	-4.47	119.56	127.88
33	3F	102	CYC	CAA-C2A-C3A	-4.46	119.56	127.88
33	VB	201	CYC	C2B-C1B-NB	4.46	113.52	106.99
33	V4	201	CYC	C2B-C1B-NB	4.46	113.52	106.99
33	gK	201	CYC	CAB-C3B-C4B	4.46	128.43	121.38
33	gF	201	CYC	CAB-C3B-C4B	4.46	128.42	121.38
33	WG	201	CYC	CMA-C3A-C4A	4.46	131.93	125.06
33	dJ	201	CYC	C2B-C1B-NB	4.46	113.51	106.99
43	k1	102	BCR	C15-C14-C13	-4.45	120.95	127.31
33	gF	201	CYC	C2B-C1B-NB	4.45	113.51	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	W4	201	CYC	C1B-C2B-C3B	-4.45	103.22	107.87
33	LK	201	CYC	C2B-C1B-NB	4.45	113.51	106.99
33	O4	201	CYC	C2B-C1B-NB	4.45	113.51	106.99
33	WB	201	CYC	C1B-C2B-C3B	-4.45	103.23	107.87
33	YF	201	CYC	CHA-C1A-NA	-4.45	122.66	128.83
33	j7	201	CYC	C2B-C1B-NB	4.45	113.50	106.99
33	QG	201	CYC	CAB-C3B-C4B	4.45	128.40	121.38
33	lC	201	CYC	C2B-C1B-NB	4.44	113.49	106.99
33	WL	201	CYC	CMA-C3A-C4A	4.44	131.90	125.06
33	CB	1001	CYC	C2B-C1B-NB	4.44	113.49	106.99
33	j5	201	CYC	C2B-C1B-NB	4.44	113.49	106.99
33	l8	201	CYC	C2B-C1B-NB	4.44	113.49	106.99
43	BD	615	BCR	C10-C11-C12	-4.44	109.36	123.22
36	cD	506	CLA	CMA-C3A-C2A	-4.44	95.92	113.83
33	2G	101	CYC	OB-C4B-C3B	-4.44	123.22	128.04
36	cE	506	CLA	CMA-C3A-C2A	-4.44	95.93	113.83
43	B1	615	BCR	C10-C11-C12	-4.44	109.37	123.22
33	C4	1001	CYC	CHB-C4A-NA	-4.44	115.65	124.93
36	c1	505	CLA	CMA-C3A-C2A	-4.44	95.93	113.83
33	CB	1001	CYC	CHB-C4A-NA	-4.44	115.66	124.93
33	d6	201	CYC	C2B-C1B-NB	4.43	113.48	106.99
33	OB	201	CYC	C2B-C1B-NB	4.43	113.48	106.99
33	aB	201	CYC	C1B-NB-C4B	-4.43	105.03	110.67
43	bD	616	BCR	C10-C11-C12	-4.43	109.39	123.22
47	E1	101	HEM	CHC-C4B-NB	4.43	129.25	124.43
33	XF	201	CYC	CHB-C4A-NA	-4.43	115.66	124.93
43	hE	105	BCR	C33-C5-C4	4.43	122.13	113.62
33	lI	201	CYC	C2B-C1B-NB	4.43	113.47	106.99
33	XK	201	CYC	CHB-C4A-NA	-4.43	115.67	124.93
33	l3	201	CYC	C2B-C1B-NB	4.43	113.47	106.99
43	BE	615	BCR	C10-C11-C12	-4.43	109.40	123.22
43	hD	105	BCR	C33-C5-C4	4.43	122.12	113.62
33	j6	201	CYC	C2B-C1B-NB	4.43	113.47	106.99
43	bE	616	BCR	C10-C11-C12	-4.43	109.40	123.22
33	QG	201	CYC	C2B-C1B-NB	4.43	113.47	106.99
33	sB	201	CYC	C1B-C2B-C3B	-4.43	103.25	107.87
33	a4	201	CYC	C1B-NB-C4B	-4.42	105.04	110.67
33	l6	201	CYC	C2B-C1B-NB	4.42	113.46	106.99
36	c1	510	CLA	C4A-NA-C1A	4.42	108.69	106.71
33	j9	201	CYC	C2B-C1B-NB	4.42	113.46	106.99
33	jA	201	CYC	C2B-C1B-NB	4.42	113.46	106.99
43	b1	616	BCR	C10-C11-C12	-4.42	109.42	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	s4	201	CYC	C1B-C2B-C3B	-4.42	103.26	107.87
33	OB	201	CYC	C1B-C2B-C3B	-4.42	103.26	107.87
33	QL	201	CYC	CAB-C3B-C4B	4.42	128.36	121.38
33	jH	201	CYC	C2B-C1B-NB	4.42	113.46	106.99
33	lH	201	CYC	C2B-C1B-NB	4.42	113.46	106.99
33	PB	201	CYC	CMA-C3A-C4A	4.42	131.87	125.06
33	dK	201	CYC	CHA-C1A-NA	-4.42	122.70	128.83
33	OB	201	CYC	CAB-C3B-C4B	4.42	128.35	121.38
33	P4	201	CYC	CMA-C3A-C4A	4.42	131.86	125.06
36	BE	614	CLA	CHD-C1D-ND	-4.41	120.40	124.45
33	QL	201	CYC	C2B-C1B-NB	4.41	113.45	106.99
33	2L	101	CYC	OB-C4B-C3B	-4.41	123.25	128.04
33	QL	201	CYC	C2A-C1A-NA	4.41	116.47	110.05
33	YK	201	CYC	CHA-C1A-NA	-4.41	122.71	128.83
33	jI	201	CYC	C2B-C1B-NB	4.41	113.45	106.99
33	dA	201	CYC	C2B-C1B-NB	4.41	113.45	106.99
33	O4	201	CYC	C1B-C2B-C3B	-4.41	103.27	107.87
43	h1	105	BCR	C33-C5-C4	4.41	122.09	113.62
33	dH	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	dI	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	l5	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	l7	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	dC	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	lJ	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	O4	201	CYC	CAB-C3B-C4B	4.41	128.34	121.38
33	l2	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	C4	1001	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	j8	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	l9	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	r4	201	CYC	CAB-C3B-C4B	4.41	128.34	121.38
33	d2	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	j3	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	lA	201	CYC	C2B-C1B-NB	4.41	113.44	106.99
33	PB	201	CYC	C1B-NB-C4B	-4.40	105.06	110.67
33	P4	201	CYC	C1B-NB-C4B	-4.40	105.06	110.67
47	ED	101	HEM	CHC-C4B-NB	4.40	129.22	124.43
43	bE	617	BCR	C24-C23-C22	-4.40	119.58	126.23
47	fE	101	HEM	CHC-C4B-NB	4.40	129.21	124.43
33	j2	201	CYC	C2B-C1B-NB	4.40	113.43	106.99
33	jJ	201	CYC	C2B-C1B-NB	4.40	113.43	106.99
33	9K	201	CYC	C1B-NB-C4B	-4.40	105.07	110.67
33	b3	201	CYC	C2B-C1B-NB	4.40	113.43	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	jE	102	LMG	O7-C10-C11	4.40	120.98	111.50
33	QG	201	CYC	C2A-C1A-NA	4.40	116.45	110.05
33	y4	201	CYC	CMC-C2C-C1C	-4.40	102.92	112.40
33	4G	201	CYC	C1B-NB-C4B	-4.40	105.07	110.67
47	fD	101	HEM	CHC-C4B-NB	4.40	129.21	124.43
43	CE	516	BCR	C24-C23-C22	4.40	132.88	126.23
33	d5	201	CYC	C2B-C1B-NB	4.39	113.42	106.99
33	dF	201	CYC	CHA-C1A-NA	-4.39	122.73	128.83
43	CD	516	BCR	C24-C23-C22	4.39	132.87	126.23
33	h6	201	CYC	C2B-C1B-NB	4.39	113.42	106.99
33	d7	201	CYC	C2B-C1B-NB	4.39	113.41	106.99
33	jC	201	CYC	C2B-C1B-NB	4.39	113.41	106.99
43	bD	617	BCR	C24-C23-C22	-4.39	119.61	126.23
33	yB	201	CYC	CMC-C2C-C1C	-4.39	102.95	112.40
33	wB	201	CYC	CHA-C1A-NA	-4.39	122.74	128.83
33	d9	201	CYC	C2B-C1B-NB	4.38	113.41	106.99
43	b1	617	BCR	C24-C23-C22	-4.38	119.61	126.23
36	B1	614	CLA	CHD-C1D-ND	-4.38	120.43	124.45
39	jD	102	LMG	O7-C10-C11	4.38	120.95	111.50
33	B4	1004	CYC	C2B-C1B-NB	4.38	113.40	106.99
43	XE	102	BCR	C33-C5-C4	4.38	122.03	113.62
33	h8	201	CYC	C2B-C1B-NB	4.38	113.40	106.99
33	hF	201	CYC	CHA-C1A-NA	-4.38	122.75	128.83
33	bJ	201	CYC	C2B-C1B-NB	4.38	113.40	106.99
33	hA	201	CYC	C2B-C1B-NB	4.38	113.40	106.99
33	rB	201	CYC	CAB-C3B-C4B	4.38	128.30	121.38
33	d8	201	CYC	C2B-C1B-NB	4.38	113.40	106.99
33	bI	201	CYC	C2B-C1B-NB	4.38	113.39	106.99
43	CE	520	BCR	C11-C10-C9	-4.38	121.06	127.31
33	w4	201	CYC	CHA-C1A-NA	-4.38	122.76	128.83
33	h7	201	CYC	C2B-C1B-NB	4.38	113.39	106.99
43	C1	516	BCR	C24-C23-C22	4.38	132.85	126.23
33	HG	201	CYC	C2A-C1A-NA	4.37	116.41	110.05
43	XD	102	BCR	C33-C5-C4	4.37	122.02	113.62
33	fC	201	CYC	C2B-C1B-NB	4.37	113.39	106.99
33	BB	1004	CYC	C2B-C1B-NB	4.37	113.39	106.99
33	b2	201	CYC	C2B-C1B-NB	4.37	113.39	106.99
33	hC	201	CYC	C2B-C1B-NB	4.37	113.39	106.99
43	CD	520	BCR	C11-C10-C9	-4.37	121.07	127.31
33	ZB	201	CYC	CAB-C3B-C4B	4.37	128.28	121.38
33	h3	201	CYC	C2B-C1B-NB	4.37	113.39	106.99
33	q4	201	CYC	CMA-C3A-C4A	4.37	131.79	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	OG	201	CYC	C1B-NB-C4B	-4.37	105.11	110.67
39	j1	102	LMG	O7-C10-C11	4.37	120.92	111.50
33	d3	201	CYC	C2B-C1B-NB	4.37	113.38	106.99
33	4L	201	CYC	C1B-NB-C4B	-4.37	105.11	110.67
36	BD	614	CLA	CHD-C1D-ND	-4.37	120.44	124.45
33	fA	201	CYC	C2B-C1B-NB	4.37	113.38	106.99
33	qB	201	CYC	CMA-C3A-C4A	4.37	131.79	125.06
33	Z4	201	CYC	CAB-C3B-C4B	4.37	128.28	121.38
33	b5	201	CYC	C2B-C1B-NB	4.37	113.38	106.99
33	h2	201	CYC	C2B-C1B-NB	4.37	113.38	106.99
33	OL	201	CYC	C1B-NB-C4B	-4.37	105.11	110.67
43	cD	519	BCR	C3-C4-C5	-4.36	106.28	114.08
43	cE	519	BCR	C3-C4-C5	-4.36	106.28	114.08
33	h9	201	CYC	C2B-C1B-NB	4.36	113.38	106.99
36	cE	510	CLA	C4A-NA-C1A	4.36	108.67	106.71
33	hK	201	CYC	CHA-C1A-NA	-4.36	122.78	128.83
33	f7	201	CYC	C2B-C1B-NB	4.36	113.38	106.99
33	f2	201	CYC	C2B-C1B-NB	4.36	113.37	106.99
33	f8	201	CYC	C2B-C1B-NB	4.36	113.37	106.99
33	fH	201	CYC	C2B-C1B-NB	4.36	113.37	106.99
43	X1	102	BCR	C33-C5-C4	4.36	121.99	113.62
43	C1	520	BCR	C11-C10-C9	-4.36	121.09	127.31
33	bH	201	CYC	C2B-C1B-NB	4.36	113.37	106.99
33	zB	201	CYC	CMB-C2B-C1B	4.36	129.61	124.17
33	HL	201	CYC	C2A-C1A-NA	4.36	116.39	110.05
33	hH	201	CYC	C2B-C1B-NB	4.36	113.37	106.99
47	f1	101	HEM	CHC-C4B-NB	4.36	129.17	124.43
33	9F	201	CYC	C1B-NB-C4B	-4.36	105.12	110.67
33	i6	202	CYC	C2A-C1A-NA	4.36	116.39	110.05
43	bE	617	BCR	C16-C17-C18	-4.36	121.09	127.31
33	b7	201	CYC	C2B-C1B-NB	4.36	113.37	106.99
33	hJ	201	CYC	C2B-C1B-NB	4.36	113.37	106.99
33	b8	201	CYC	C2B-C1B-NB	4.36	113.37	106.99
36	cD	512	CLA	CMB-C2B-C3B	4.36	132.83	124.68
33	f3	201	CYC	C2B-C1B-NB	4.36	113.37	106.99
33	s4	201	CYC	OC-C1C-C2C	-4.36	122.71	126.17
33	X4	201	CYC	C2B-C1B-NB	4.36	113.36	106.99
33	f6	201	CYC	C2B-C1B-NB	4.36	113.36	106.99
43	b1	617	BCR	C16-C17-C18	-4.36	121.09	127.31
33	fI	201	CYC	C2B-C1B-NB	4.35	113.36	106.99
36	cD	510	CLA	C4A-NA-C1A	4.35	108.66	106.71
33	hI	201	CYC	C2B-C1B-NB	4.35	113.36	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	kK	201	CYC	C1B-C2B-C3B	-4.35	103.33	107.87
33	z4	201	CYC	CMB-C2B-C1B	4.35	129.60	124.17
36	cE	514	CLA	CMB-C2B-C3B	4.35	132.82	124.68
33	5L	201	CYC	C2A-C1A-NA	4.35	116.38	110.05
36	cD	514	CLA	CMB-C2B-C3B	4.35	132.82	124.68
36	cE	512	CLA	CMB-C2B-C3B	4.35	132.82	124.68
43	BD	616	BCR	C16-C17-C18	-4.35	121.10	127.31
33	f9	201	CYC	C2B-C1B-NB	4.35	113.36	106.99
33	9K	201	CYC	C2B-C1B-NB	4.35	113.36	106.99
33	kF	201	CYC	C1B-C2B-C3B	-4.35	103.33	107.87
43	c1	519	BCR	C3-C4-C5	-4.35	106.31	114.08
33	i7	202	CYC	C2A-C1A-NA	4.35	116.37	110.05
33	JF	201	CYC	CAB-C3B-C4B	4.35	128.25	121.38
33	fJ	201	CYC	C2B-C1B-NB	4.35	113.35	106.99
36	bE	607	CLA	CMB-C2B-C1B	-4.35	121.78	128.46
33	CB	1003	CYC	OC-C1C-C2C	-4.35	122.72	126.17
33	JK	201	CYC	CAB-C3B-C4B	4.34	128.24	121.38
33	XB	201	CYC	C2B-C1B-NB	4.34	113.35	106.99
43	bD	617	BCR	C16-C17-C18	-4.34	121.11	127.31
42	A1	411	LHG	O7-C7-C8	4.34	120.86	111.50
42	AD	411	LHG	O7-C7-C8	4.34	120.85	111.50
33	b6	201	CYC	C2B-C1B-NB	4.34	113.34	106.99
36	b1	607	CLA	CMB-C2B-C1B	-4.34	121.80	128.46
33	bC	201	CYC	C2B-C1B-NB	4.34	113.34	106.99
36	c1	512	CLA	CMB-C2B-C3B	4.34	132.79	124.68
47	EE	101	HEM	CHC-C4B-NB	4.34	129.14	124.43
33	iC	202	CYC	C2A-C1A-NA	4.34	116.36	110.05
36	bD	607	CLA	CMB-C2B-C1B	-4.34	121.80	128.46
43	ZE	102	BCR	C7-C8-C9	-4.34	119.68	126.23
43	B1	616	BCR	C16-C17-C18	-4.34	121.12	127.31
33	i3	202	CYC	C2A-C1A-NA	4.33	116.35	110.05
42	AE	411	LHG	O7-C7-C8	4.33	120.84	111.50
33	bF	201	CYC	CHA-C1A-NA	-4.33	122.82	128.83
43	BE	616	BCR	C16-C17-C18	-4.33	121.13	127.31
33	sB	201	CYC	OC-C1C-C2C	-4.33	122.73	126.17
33	JK	201	CYC	CMA-C3A-C4A	4.33	131.73	125.06
33	1G	201	CYC	CHB-C1B-NB	-4.33	116.77	126.06
38	D1	413	SQD	O47-C7-C8	4.33	120.83	111.50
36	c1	514	CLA	CMB-C2B-C3B	4.33	132.78	124.68
33	i8	202	CYC	C2A-C1A-NA	4.33	116.34	110.05
33	9F	201	CYC	C2B-C1B-NB	4.33	113.32	106.99
33	NF	101	CYC	C4D-CHA-C1A	4.33	133.98	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	VG	201	CYC	C1B-NB-C4B	-4.33	105.16	110.67
33	b4	101	CYC	CBD-CAD-C3D	-4.33	105.23	112.62
33	C4	1003	CYC	OC-C1C-C2C	-4.33	122.73	126.17
33	b9	201	CYC	C2B-C1B-NB	4.33	113.32	106.99
33	bA	201	CYC	C2B-C1B-NB	4.33	113.32	106.99
43	BE	616	BCR	C24-C23-C22	-4.32	119.70	126.23
36	BE	614	CLA	C4A-NA-C1A	4.32	108.65	106.71
33	iH	202	CYC	C2A-C1A-NA	4.32	116.34	110.05
33	bB	101	CYC	CBD-CAD-C3D	-4.32	105.24	112.62
33	rB	201	CYC	C2B-C1B-NB	4.32	113.32	106.99
33	h5	201	CYC	C2B-C1B-NB	4.32	113.31	106.99
38	d1	414	SQD	O47-C7-C8	4.32	120.81	111.50
33	JF	201	CYC	CMA-C3A-C4A	4.32	131.72	125.06
38	dE	414	SQD	O47-C7-C8	4.32	120.81	111.50
33	1L	201	CYC	CHB-C1B-NB	-4.32	116.79	126.06
33	3K	102	CYC	CMB-C2B-C1B	4.32	129.56	124.17
36	BD	605	CLA	CMB-C2B-C1B	-4.32	121.83	128.46
33	RB	201	CYC	C2A-C1A-NA	4.32	116.33	110.05
43	BD	616	BCR	C24-C23-C22	-4.31	119.72	126.23
33	iI	202	CYC	C2A-C1A-NA	4.31	116.32	110.05
33	i2	202	CYC	C2A-C1A-NA	4.31	116.32	110.05
33	f5	201	CYC	C2B-C1B-NB	4.31	113.30	106.99
33	bK	201	CYC	CHA-C1A-NA	-4.31	122.84	128.83
33	3F	102	CYC	CMB-C2B-C1B	4.31	129.55	124.17
33	R4	201	CYC	C2A-C1A-NA	4.31	116.32	110.05
47	ED	101	HEM	C1B-NB-C4B	4.31	109.53	105.07
47	fE	101	HEM	C1B-NB-C4B	4.31	109.53	105.07
33	r4	201	CYC	C2B-C1B-NB	4.31	113.30	106.99
33	7G	201	CYC	CAB-C3B-C4B	4.31	128.19	121.38
33	6G	201	CYC	CHB-C4A-NA	-4.31	115.92	124.93
33	i5	202	CYC	C2A-C1A-NA	4.31	116.32	110.05
43	kD	102	BCR	C7-C8-C9	-4.31	119.72	126.23
38	DD	414	SQD	O47-C7-C8	4.31	120.79	111.50
33	5G	201	CYC	C2A-C1A-NA	4.31	116.32	110.05
33	6L	201	CYC	CHB-C4A-NA	-4.31	115.92	124.93
36	b1	615	CLA	C4A-NA-C1A	4.31	108.64	106.71
38	dD	414	SQD	O47-C7-C8	4.31	120.78	111.50
33	uB	201	CYC	CHA-C1A-NA	-4.31	122.86	128.83
33	iA	202	CYC	C2A-C1A-NA	4.30	116.31	110.05
43	B1	616	BCR	C24-C23-C22	-4.30	119.73	126.23
43	kE	102	BCR	C7-C8-C9	-4.30	119.73	126.23
33	iJ	202	CYC	C2A-C1A-NA	4.30	116.31	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	DE	414	SQD	O47-C7-C8	4.30	120.77	111.50
33	NK	101	CYC	C4D-CHA-C1A	4.30	133.94	128.81
33	e8	201	CYC	C2A-C1A-NA	4.30	116.30	110.05
33	hF	201	CYC	CHB-C1B-NB	-4.30	116.83	126.06
36	BE	605	CLA	CMB-C2B-C1B	-4.30	121.86	128.46
36	B1	614	CLA	C4A-NA-C1A	4.30	108.64	106.71
43	k1	102	BCR	C7-C8-C9	-4.30	119.74	126.23
33	aF	201	CYC	C1A-C2A-C3A	-4.30	102.03	106.78
33	7L	201	CYC	CAB-C3B-C4B	4.30	128.16	121.38
33	i9	202	CYC	C2A-C1A-NA	4.30	116.30	110.05
36	B1	605	CLA	CMB-C2B-C1B	-4.29	121.86	128.46
33	aK	201	CYC	C1A-C2A-C3A	-4.29	102.03	106.78
33	VL	201	CYC	C1B-NB-C4B	-4.29	105.20	110.67
43	cE	515	BCR	C38-C26-C27	4.29	121.86	113.62
33	YF	201	CYC	CHB-C1B-NB	-4.29	116.84	126.06
33	u4	201	CYC	CHA-C1A-NA	-4.29	122.88	128.83
47	E1	101	HEM	C1B-NB-C4B	4.29	109.50	105.07
33	IL	201	CYC	OB-C4B-C3B	-4.29	123.39	128.04
43	cD	515	BCR	C38-C26-C27	4.29	121.85	113.62
33	BB	1002	CYC	OC-C1C-C2C	-4.29	122.76	126.17
43	CD	521	BCR	C7-C8-C9	-4.29	119.76	126.23
33	gK	201	CYC	CHA-C1A-C2A	-4.29	115.42	125.32
33	gF	201	CYC	CHA-C1A-C2A	-4.28	115.42	125.32
33	YK	201	CYC	CHB-C1B-NB	-4.28	116.86	126.06
33	hK	201	CYC	CHB-C1B-NB	-4.28	116.86	126.06
47	f1	101	HEM	C1B-NB-C4B	4.28	109.50	105.07
47	fD	101	HEM	C1B-NB-C4B	4.28	109.50	105.07
33	dK	201	CYC	CHB-C1B-NB	-4.28	116.86	126.06
43	c1	515	BCR	C38-C26-C27	4.28	121.84	113.62
36	AD	405	CLA	O2D-CGD-CBD	4.28	118.88	111.27
33	e3	201	CYC	C2A-C1A-NA	4.28	116.28	110.05
33	JG	201	CYC	C1B-NB-C4B	-4.28	105.22	110.67
33	IG	201	CYC	OB-C4B-C3B	-4.28	123.39	128.04
47	EE	101	HEM	C1B-NB-C4B	4.28	109.49	105.07
33	g8	202	CYC	C2A-C1A-NA	4.28	116.28	110.05
36	A1	405	CLA	O2D-CGD-CBD	4.28	118.87	111.27
33	JL	201	CYC	C1B-NB-C4B	-4.28	105.22	110.67
43	Z1	102	BCR	C7-C8-C9	-4.28	119.77	126.23
33	mK	201	CYC	C1B-NB-C4B	-4.28	105.23	110.67
38	LE	102	SQD	O47-C7-C8	4.27	120.71	111.50
33	e5	201	CYC	C2A-C1A-NA	4.27	116.27	110.05
33	eJ	201	CYC	C2A-C1A-NA	4.27	116.27	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	dF	201	CYC	CHB-C1B-NB	-4.27	116.88	126.06
33	s4	201	CYC	C2C-C1C-NC	4.27	111.96	108.27
36	bE	615	CLA	CHD-C1D-ND	-4.27	120.53	124.45
33	eH	201	CYC	C2A-C1A-NA	4.27	116.26	110.05
33	eI	201	CYC	C2A-C1A-NA	4.27	116.26	110.05
33	e9	201	CYC	C2A-C1A-NA	4.27	116.26	110.05
33	v4	201	CYC	OC-C1C-C2C	-4.27	122.78	126.17
33	B9	301	CYC	C2A-C1A-NA	4.27	116.26	110.05
33	B4	1002	CYC	OC-C1C-C2C	-4.27	122.78	126.17
33	BI	301	CYC	C2A-C1A-NA	4.27	116.25	110.05
33	kK	201	CYC	CMA-C3A-C4A	4.27	131.63	125.06
33	mF	201	CYC	C1B-NB-C4B	-4.26	105.24	110.67
33	e7	201	CYC	C2A-C1A-NA	4.26	116.25	110.05
38	LD	102	SQD	O47-C7-C8	4.26	120.69	111.50
33	CB	1001	CYC	C1B-NB-C4B	-4.26	105.24	110.67
33	P4	201	CYC	C1B-C2B-C3B	-4.26	103.42	107.87
33	PB	201	CYC	C1B-C2B-C3B	-4.26	103.42	107.87
33	eC	201	CYC	C2A-C1A-NA	4.26	116.25	110.05
33	e6	201	CYC	C2A-C1A-NA	4.26	116.25	110.05
38	L1	102	SQD	O47-C7-C8	4.26	120.68	111.50
43	hD	105	BCR	C1-C6-C5	-4.26	116.62	122.61
36	b1	615	CLA	CHD-C1D-ND	-4.26	120.54	124.45
36	a1	405	CLA	CMB-C2B-C1B	-4.26	121.92	128.46
33	sB	201	CYC	C2C-C1C-NC	4.26	111.94	108.27
33	B6	301	CYC	C2A-C1A-NA	4.26	116.24	110.05
36	AE	405	CLA	O2D-CGD-CBD	4.26	118.83	111.27
33	hK	201	CYC	CMA-C3A-C2A	-4.26	114.56	126.12
33	w4	201	CYC	CHB-C4A-NA	-4.25	116.03	124.93
36	CE	510	CLA	C4D-C3D-CAD	-4.25	103.08	108.10
39	J1	102	LMG	O7-C10-C11	4.25	120.67	111.50
38	L1	101	SQD	O47-C7-C8	4.25	120.67	111.50
33	k8	201	CYC	C2A-C1A-NA	4.25	116.24	110.05
43	cE	519	BCR	C15-C14-C13	-4.25	121.24	127.31
33	B3	301	CYC	C2A-C1A-NA	4.25	116.23	110.05
36	aD	404	CLA	CMB-C2B-C1B	-4.25	121.93	128.46
33	hF	201	CYC	CMA-C3A-C2A	-4.25	114.57	126.12
38	LD	101	SQD	O47-C7-C8	4.25	120.66	111.50
43	hE	105	BCR	C1-C6-C5	-4.25	116.62	122.61
38	AD	407	SQD	O47-C7-C8	4.25	120.66	111.50
36	bD	615	CLA	CHD-C1D-ND	-4.25	120.55	124.45
33	g5	202	CYC	C2A-C1A-NA	4.25	116.23	110.05
33	BA	301	CYC	C2A-C1A-NA	4.25	116.23	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	kF	201	CYC	CMA-C3A-C4A	4.25	131.60	125.06
43	cD	515	BCR	C7-C8-C9	-4.25	119.82	126.23
33	QL	201	CYC	CHA-C1A-C2A	-4.25	115.51	125.32
33	kI	201	CYC	C2A-C1A-NA	4.25	116.23	110.05
33	wB	201	CYC	CHB-C4A-NA	-4.25	116.05	124.93
33	eA	201	CYC	C2A-C1A-NA	4.25	116.22	110.05
43	cI	519	BCR	C15-C14-C13	-4.24	121.25	127.31
38	A1	407	SQD	O47-C7-C8	4.24	120.65	111.50
33	cI	201	CYC	C2A-C1A-NA	4.24	116.22	110.05
43	B1	617	BCR	C3-C4-C5	-4.24	106.50	114.08
33	Q4	201	CYC	CHB-C4A-C3A	4.24	135.81	124.90
33	gH	202	CYC	C2A-C1A-NA	4.24	116.22	110.05
33	X4	201	CYC	C1B-NB-C4B	-4.24	105.27	110.67
38	AE	407	SQD	O47-C7-C8	4.24	120.64	111.50
43	ID	102	BCR	C16-C15-C14	-4.24	114.78	123.47
38	LE	101	SQD	O47-C7-C8	4.24	120.64	111.50
43	X1	102	BCR	C1-C6-C5	-4.24	116.64	122.61
43	h1	105	BCR	C1-C6-C5	-4.24	116.64	122.61
33	vB	201	CYC	OC-C1C-C2C	-4.24	122.80	126.17
36	bE	615	CLA	C4A-NA-C1A	4.24	108.61	106.71
43	cE	515	BCR	C7-C8-C9	-4.24	119.83	126.23
33	QG	201	CYC	CHA-C1A-C2A	-4.24	115.53	125.32
39	JD	102	LMG	O7-C10-C11	4.24	120.64	111.50
36	aE	404	CLA	CMB-C2B-C1B	-4.24	121.95	128.46
33	QB	201	CYC	CHB-C4A-C3A	4.24	135.80	124.90
43	IE	102	BCR	C16-C15-C14	-4.24	114.79	123.47
33	k3	201	CYC	C2A-C1A-NA	4.24	116.21	110.05
33	ZB	201	CYC	OC-C1C-C2C	-4.24	122.81	126.17
43	c1	515	BCR	C7-C8-C9	-4.24	119.83	126.23
36	bD	615	CLA	C4A-NA-C1A	4.24	108.61	106.71
33	C4	1001	CYC	C1B-NB-C4B	-4.24	105.28	110.67
33	e2	201	CYC	C2A-C1A-NA	4.23	116.21	110.05
33	k2	201	CYC	C2A-C1A-NA	4.23	116.21	110.05
33	B7	301	CYC	C2A-C1A-NA	4.23	116.21	110.05
43	XD	102	BCR	C1-C6-C5	-4.23	116.65	122.61
33	k9	201	CYC	C2A-C1A-NA	4.23	116.20	110.05
36	CD	510	CLA	C4D-C3D-CAD	-4.23	103.11	108.10
39	JE	102	LMG	O7-C10-C11	4.23	120.62	111.50
33	YF	201	CYC	CMA-C3A-C2A	-4.23	114.64	126.12
33	MG	201	CYC	C2A-C1A-NA	4.23	116.20	110.05
33	kH	201	CYC	C2A-C1A-NA	4.23	116.20	110.05
43	BD	617	BCR	C3-C4-C5	-4.23	106.53	114.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	C1	510	CLA	CMB-C2B-C3B	4.23	132.59	124.68
33	c7	201	CYC	C2A-C1A-NA	4.23	116.20	110.05
33	gJ	202	CYC	C2A-C1A-NA	4.23	116.20	110.05
33	YK	201	CYC	CMA-C3A-C2A	-4.23	114.64	126.12
36	BD	614	CLA	C4A-NA-C1A	4.22	108.61	106.71
33	k5	201	CYC	C2A-C1A-NA	4.22	116.19	110.05
43	cD	519	BCR	C15-C14-C13	-4.22	121.28	127.31
33	k7	201	CYC	C2A-C1A-NA	4.22	116.19	110.05
33	kA	201	CYC	C2A-C1A-NA	4.22	116.19	110.05
33	k6	201	CYC	C2A-C1A-NA	4.22	116.19	110.05
33	XB	201	CYC	C1B-NB-C4B	-4.22	105.30	110.67
36	CE	510	CLA	CMB-C2B-C3B	4.22	132.57	124.68
42	a1	412	LHG	O7-C7-C8	4.22	120.59	111.50
33	c9	201	CYC	C2A-C1A-NA	4.22	116.19	110.05
33	cA	201	CYC	C2A-C1A-NA	4.22	116.19	110.05
33	BC	301	CYC	C2A-C1A-NA	4.22	116.19	110.05
33	c5	201	CYC	C2A-C1A-NA	4.22	116.19	110.05
36	aD	406	CLA	CMB-C2B-C3B	4.22	132.57	124.68
33	oB	201	CYC	C1B-C2B-C3B	-4.22	103.47	107.87
33	kJ	201	CYC	C2A-C1A-NA	4.22	116.19	110.05
36	CD	510	CLA	CMB-C2B-C3B	4.22	132.57	124.68
33	AG	201	CYC	C1B-C2B-C3B	-4.22	103.47	107.87
43	BE	617	BCR	C3-C4-C5	-4.22	106.55	114.08
33	OL	201	CYC	OB-C4B-C3B	-4.22	123.47	128.04
33	Z4	201	CYC	OC-C1C-C2C	-4.22	122.82	126.17
33	dF	201	CYC	CMA-C3A-C2A	-4.22	114.67	126.12
43	XE	102	BCR	C1-C6-C5	-4.22	116.68	122.61
33	ZF	201	CYC	OB-C4B-C3B	-4.21	123.47	128.04
36	aE	406	CLA	CMB-C2B-C3B	4.21	132.56	124.68
33	4L	201	CYC	CHB-C4A-NA	-4.21	116.12	124.93
42	aD	411	LHG	O7-C7-C8	4.21	120.58	111.50
33	cC	201	CYC	C2A-C1A-NA	4.21	116.18	110.05
43	I1	102	BCR	C16-C15-C14	-4.21	114.84	123.47
33	dK	201	CYC	CMA-C3A-C2A	-4.21	114.68	126.12
42	aE	411	LHG	O7-C7-C8	4.21	120.58	111.50
33	kC	201	CYC	C2A-C1A-NA	4.21	116.17	110.05
33	cJ	201	CYC	C2A-C1A-NA	4.21	116.17	110.05
33	w4	201	CYC	CMA-C3A-C4A	4.21	131.55	125.06
33	mF	201	CYC	CHA-C1A-NA	-4.21	122.99	128.83
36	a1	407	CLA	CMB-C2B-C3B	4.21	132.55	124.68
33	c8	201	CYC	C2A-C1A-NA	4.21	116.17	110.05
33	o4	201	CYC	C1B-C2B-C3B	-4.21	103.48	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	B2	301	CYC	C2A-C1A-NA	4.21	116.17	110.05
33	OG	201	CYC	OB-C4B-C3B	-4.21	123.48	128.04
36	C1	510	CLA	C4D-C3D-CAD	-4.20	103.14	108.10
33	cH	201	CYC	C2A-C1A-NA	4.20	116.16	110.05
43	b1	618	BCR	C3-C4-C5	-4.20	106.57	114.08
33	mK	201	CYC	CHA-C1A-NA	-4.20	123.00	128.83
33	ML	201	CYC	C2A-C1A-NA	4.20	116.16	110.05
33	wB	201	CYC	CMA-C3A-C4A	4.20	131.53	125.06
33	SB	201	CYC	OB-C4B-C3B	-4.20	123.48	128.04
43	bE	618	BCR	C3-C4-C5	-4.20	106.58	114.08
33	6G	201	CYC	C1B-NB-C4B	-4.20	105.32	110.67
33	VL	201	CYC	CHA-C1A-NA	-4.20	123.00	128.83
44	hD	104	DGD	O2G-C1B-C2B	4.20	120.55	111.50
33	AL	201	CYC	C1B-C2B-C3B	-4.20	103.49	107.87
43	bD	618	BCR	C3-C4-C5	-4.20	106.58	114.08
44	h1	104	DGD	O2G-C1B-C2B	4.20	120.55	111.50
43	h1	105	BCR	C24-C23-C22	-4.20	119.89	126.23
33	VG	201	CYC	CHA-C1A-NA	-4.20	123.01	128.83
33	V4	201	CYC	C2A-C1A-NA	4.20	116.15	110.05
33	OB	201	CYC	CHA-C1A-NA	-4.19	123.01	128.83
33	S4	201	CYC	OB-C4B-C3B	-4.19	123.49	128.04
33	c2	201	CYC	C2A-C1A-NA	4.19	116.15	110.05
33	LL	201	CYC	C1B-C2B-C3B	-4.19	103.50	107.87
36	b1	615	CLA	CMB-C2B-C1B	-4.19	122.02	128.46
33	ZK	201	CYC	OB-C4B-C3B	-4.19	123.49	128.04
33	mK	201	CYC	C4D-CHA-C1A	4.19	133.81	128.81
33	c6	201	CYC	C2A-C1A-NA	4.19	116.14	110.05
33	VB	201	CYC	C2A-C1A-NA	4.19	116.14	110.05
33	RL	201	CYC	C1B-NB-C4B	-4.19	105.34	110.67
36	bD	615	CLA	CMB-C2B-C1B	-4.19	122.03	128.46
44	hE	104	DGD	O2G-C1B-C2B	4.19	120.52	111.50
47	f1	101	HEM	CHD-C1D-ND	4.19	128.98	124.43
43	hD	105	BCR	C24-C23-C22	-4.19	119.91	126.23
36	CE	513	CLA	CMB-C2B-C3B	4.18	132.51	124.68
33	4G	201	CYC	CHB-C4A-NA	-4.18	116.18	124.93
33	O4	201	CYC	CHA-C1A-NA	-4.18	123.02	128.83
33	RG	201	CYC	C1B-NB-C4B	-4.18	105.34	110.67
36	bE	615	CLA	CMB-C2B-C1B	-4.18	122.04	128.46
33	6L	201	CYC	C1B-NB-C4B	-4.18	105.34	110.67
33	RB	201	CYC	CHB-C4A-C3A	4.18	135.65	124.90
33	2G	101	CYC	C4D-CHA-C1A	4.18	133.80	128.81
33	NG	201	CYC	CHD-C4C-NC	4.18	130.18	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	hD	103	SQD	C46-O48-C23	4.18	132.59	117.12
38	h1	103	SQD	C46-O48-C23	4.18	132.59	117.12
36	CD	513	CLA	CMB-C2B-C3B	4.18	132.50	124.68
43	X1	102	BCR	C24-C23-C22	-4.18	119.92	126.23
33	mF	201	CYC	C4D-CHA-C1A	4.18	133.80	128.81
33	R4	201	CYC	CHB-C4A-C3A	4.17	135.63	124.90
33	XF	201	CYC	CHA-C1A-NA	-4.17	123.04	128.83
43	c1	519	BCR	C7-C8-C9	-4.17	119.93	126.23
33	LG	201	CYC	C1B-C2B-C3B	-4.17	103.52	107.87
38	hE	103	SQD	C46-O48-C23	4.17	132.56	117.12
33	JF	201	CYC	C1B-NB-C4B	-4.17	105.36	110.67
33	BB	1001	CYC	OC-C1C-C2C	-4.17	122.86	126.17
33	KK	201	CYC	CMB-C2B-C1B	4.17	129.37	124.17
43	XE	102	BCR	C24-C23-C22	-4.17	119.94	126.23
43	hE	105	BCR	C24-C23-C22	-4.17	119.94	126.23
33	IG	201	CYC	CAB-C3B-C4B	4.17	127.96	121.38
33	3K	101	CYC	C2B-C1B-NB	4.17	113.09	106.99
33	XK	201	CYC	CHA-C1A-NA	-4.16	123.05	128.83
33	2L	101	CYC	C4D-CHA-C1A	4.16	133.78	128.81
33	VL	201	CYC	C4D-CHA-C1A	4.16	133.78	128.81
33	IL	201	CYC	CAB-C3B-C4B	4.16	127.95	121.38
33	C4	1001	CYC	OB-C4B-C3B	-4.16	123.52	128.04
33	KF	201	CYC	CMB-C2B-C1B	4.16	129.36	124.17
33	gK	201	CYC	C1B-NB-C4B	-4.16	105.37	110.67
33	Z4	201	CYC	C2B-C1B-NB	4.16	113.08	106.99
33	JK	201	CYC	C1B-NB-C4B	-4.16	105.37	110.67
45	DD	401	PHO	C9-C8-C7	4.16	126.35	111.29
33	QG	201	CYC	CHB-C4A-NA	-4.16	116.24	124.93
33	3F	101	CYC	C2B-C1B-NB	4.16	113.07	106.99
36	C1	513	CLA	CMB-C2B-C3B	4.16	132.45	124.68
33	CB	1001	CYC	OB-C4B-C3B	-4.16	123.53	128.04
38	h1	103	SQD	O47-C7-C8	4.15	120.45	111.50
33	fK	201	CYC	C1B-NB-C4B	-4.15	105.38	110.67
33	jF	201	CYC	C2B-C1B-NB	4.15	113.07	106.99
33	fF	201	CYC	C1B-NB-C4B	-4.15	105.38	110.67
33	c3	201	CYC	C2A-C1A-NA	4.15	116.09	110.05
43	cD	519	BCR	C7-C8-C9	-4.15	119.96	126.23
38	hD	103	SQD	O47-C7-C8	4.15	120.44	111.50
33	QL	201	CYC	CHB-C4A-NA	-4.15	116.25	124.93
47	fD	101	HEM	CHD-C1D-ND	4.15	128.94	124.43
33	NL	201	CYC	CHD-C4C-NC	4.15	130.14	125.20
38	hE	103	SQD	O47-C7-C8	4.15	120.44	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	aE	412	PHO	CMB-C2B-C3B	4.15	132.44	124.68
33	gK	201	CYC	CHB-C4A-NA	-4.15	116.26	124.93
47	EE	101	HEM	CHD-C1D-ND	4.14	128.93	124.43
33	gF	201	CYC	C1B-NB-C4B	-4.14	105.39	110.67
33	w4	201	CYC	C2B-C1B-NB	4.14	113.05	106.99
33	jK	201	CYC	C2B-C1B-NB	4.14	113.05	106.99
47	fE	101	HEM	CHD-C1D-ND	4.14	128.93	124.43
33	gF	201	CYC	CHB-C4A-NA	-4.14	116.27	124.93
33	V4	201	CYC	CHB-C4A-C3A	4.14	135.55	124.90
43	XD	102	BCR	C24-C23-C22	-4.14	119.98	126.23
33	VG	201	CYC	C4D-CHA-C1A	4.14	133.76	128.81
45	a1	413	PHO	CMB-C2B-C3B	4.14	132.43	124.68
33	v4	201	CYC	CMA-C3A-C4A	4.14	131.44	125.06
33	NG	201	CYC	OC-C1C-C2C	-4.14	122.88	126.17
37	dE	408	PL9	C7-C8-C9	-4.14	119.90	126.79
33	ZB	201	CYC	C2B-C1B-NB	4.14	113.05	106.99
37	D1	407	PL9	C7-C8-C9	-4.14	119.90	126.79
33	vB	201	CYC	CMA-C3A-C4A	4.14	131.44	125.06
33	B4	1004	CYC	CMA-C3A-C4A	4.14	131.43	125.06
43	cE	519	BCR	C7-C8-C9	-4.14	119.99	126.23
33	B4	1001	CYC	OC-C1C-C2C	-4.14	122.89	126.17
33	VB	201	CYC	CHB-C4A-C3A	4.14	135.53	124.90
33	NL	201	CYC	OC-C1C-C2C	-4.13	122.89	126.17
36	c1	507	CLA	CMB-C2B-C1B	-4.13	122.11	128.46
47	ED	101	HEM	CHD-C1D-ND	4.13	128.92	124.43
37	d1	408	PL9	C7-C8-C9	-4.13	119.92	126.79
37	dD	408	PL9	C7-C8-C9	-4.13	119.92	126.79
36	cD	507	CLA	CMB-C2B-C1B	-4.13	122.12	128.46
33	IL	201	CYC	CHB-C4A-C3A	4.13	135.51	124.90
33	BB	1004	CYC	CMA-C3A-C4A	4.13	131.42	125.06
33	VG	201	CYC	C1B-C2B-C3B	-4.13	103.57	107.87
38	B1	622	SQD	O47-C7-C8	4.12	120.39	111.50
33	wB	201	CYC	C2B-C1B-NB	4.12	113.02	106.99
33	mF	201	CYC	C1B-C2B-C3B	-4.12	103.57	107.87
38	BE	621	SQD	O47-C7-C8	4.12	120.38	111.50
33	j6	201	CYC	C1B-NB-C4B	-4.12	105.42	110.67
33	IG	201	CYC	CHB-C4A-C3A	4.12	135.50	124.90
33	aK	201	CYC	C2A-C1A-NA	4.12	116.04	110.05
36	bE	611	CLA	CMB-C2B-C1B	-4.12	122.13	128.46
33	JF	201	CYC	C2B-C1B-NB	4.12	113.02	106.99
36	BD	610	CLA	CMB-C2B-C1B	-4.12	122.14	128.46
36	BE	610	CLA	CMB-C2B-C1B	-4.12	122.14	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	bD	611	CLA	CMB-C2B-C1B	-4.12	122.14	128.46
33	aF	201	CYC	C2A-C1A-NA	4.12	116.03	110.05
33	JK	201	CYC	C2B-C1B-NB	4.11	113.01	106.99
33	a4	201	CYC	CHB-C4A-NA	-4.11	116.33	124.93
38	BD	621	SQD	O47-C7-C8	4.11	120.37	111.50
47	E1	101	HEM	CHD-C1D-ND	4.11	128.90	124.43
37	DD	408	PL9	C7-C8-C9	-4.11	119.94	126.79
36	b1	611	CLA	CMB-C2B-C1B	-4.11	122.14	128.46
33	ZF	201	CYC	C2B-C1B-NB	4.11	113.01	106.99
33	aB	201	CYC	CHB-C4A-NA	-4.11	116.33	124.93
36	BE	614	CLA	CMB-C2B-C1B	-4.11	122.14	128.46
33	h6	201	CYC	C1B-NB-C4B	-4.11	105.43	110.67
36	cE	507	CLA	CMB-C2B-C1B	-4.11	122.15	128.46
33	VL	201	CYC	C1B-C2B-C3B	-4.11	103.58	107.87
33	NK	101	CYC	C2B-C1B-NB	4.11	113.00	106.99
33	Z4	201	CYC	CHA-C1A-NA	-4.11	123.13	128.83
37	DE	408	PL9	C7-C8-C9	-4.11	119.95	126.79
36	CE	508	CLA	CMB-C2B-C1B	-4.11	122.15	128.46
33	mK	201	CYC	C1B-C2B-C3B	-4.11	103.58	107.87
33	NF	101	CYC	C2B-C1B-NB	4.11	113.00	106.99
36	BD	614	CLA	CMB-C2B-C1B	-4.11	122.15	128.46
33	ZK	201	CYC	C2B-C1B-NB	4.10	113.00	106.99
43	c1	515	BCR	C21-C20-C19	-4.10	110.41	123.22
33	h3	201	CYC	C1B-NB-C4B	-4.10	105.45	110.67
33	QL	201	CYC	C1B-NB-C4B	-4.10	105.45	110.67
33	j7	201	CYC	C1B-NB-C4B	-4.10	105.45	110.67
33	hI	201	CYC	C1B-NB-C4B	-4.10	105.45	110.67
33	WB	201	CYC	C2C-C1C-NC	4.10	111.81	108.27
36	B1	614	CLA	CMB-C2B-C1B	-4.10	122.16	128.46
33	MG	201	CYC	CAB-C3B-C4B	4.10	127.85	121.38
36	B1	610	CLA	CMB-C2B-C1B	-4.10	122.17	128.46
33	hA	201	CYC	C1B-NB-C4B	-4.10	105.45	110.67
33	ML	201	CYC	CAB-C3B-C4B	4.10	127.85	121.38
33	z4	201	CYC	C2B-C1B-NB	4.10	112.98	106.99
33	QG	201	CYC	C1B-NB-C4B	-4.10	105.45	110.67
33	h8	201	CYC	C1B-NB-C4B	-4.09	105.46	110.67
33	j5	201	CYC	C1B-NB-C4B	-4.09	105.46	110.67
33	zB	201	CYC	C2B-C1B-NB	4.09	112.98	106.99
36	c1	510	CLA	C1B-CHB-C4A	-4.09	122.02	130.12
33	j9	201	CYC	C1B-NB-C4B	-4.09	105.46	110.67
33	jH	201	CYC	C1B-NB-C4B	-4.09	105.46	110.67
33	II	201	CYC	C1B-NB-C4B	-4.09	105.46	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	vD	201	HEM	CHD-C1D-C2D	-4.09	118.59	124.98
33	j3	201	CYC	C1B-NB-C4B	-4.09	105.47	110.67
43	cD	515	BCR	C21-C20-C19	-4.09	110.47	123.22
33	l8	201	CYC	C1B-NB-C4B	-4.08	105.47	110.67
33	jA	201	CYC	C1B-NB-C4B	-4.08	105.47	110.67
33	hC	201	CYC	C1B-NB-C4B	-4.08	105.47	110.67
36	bD	604	CLA	CMA-C3A-C4A	-4.08	100.80	111.77
33	lG	201	CYC	CAC-C3C-C2C	-4.08	104.06	114.26
33	lL	201	CYC	CAC-C3C-C2C	-4.08	104.06	114.26
33	lA	201	CYC	C1B-NB-C4B	-4.08	105.47	110.67
33	lC	201	CYC	C1B-NB-C4B	-4.08	105.47	110.67
33	h5	201	CYC	C1B-NB-C4B	-4.08	105.47	110.67
33	h9	201	CYC	C1B-NB-C4B	-4.08	105.47	110.67
47	vE	201	HEM	CHD-C1D-C2D	-4.08	118.61	124.98
43	hD	105	BCR	C38-C26-C27	4.08	121.45	113.62
36	bE	604	CLA	CMA-C3A-C4A	-4.08	100.81	111.77
33	lH	201	CYC	C1B-NB-C4B	-4.08	105.48	110.67
33	lJ	201	CYC	C1B-NB-C4B	-4.08	105.48	110.67
33	W4	201	CYC	C2C-C1C-NC	4.08	111.79	108.27
33	a4	201	CYC	CMA-C3A-C4A	4.08	131.34	125.06
33	5G	201	CYC	C1B-NB-C4B	-4.08	105.48	110.67
33	l6	201	CYC	C1B-NB-C4B	-4.08	105.48	110.67
33	hH	201	CYC	C1B-NB-C4B	-4.08	105.48	110.67
47	vI	201	HEM	CHD-C1D-C2D	-4.08	118.61	124.98
36	cD	510	CLA	C1B-CHB-C4A	-4.08	122.04	130.12
43	h1	105	BCR	C38-C26-C27	4.08	121.45	113.62
33	l5	201	CYC	C1B-NB-C4B	-4.08	105.48	110.67
33	jI	201	CYC	C1B-NB-C4B	-4.08	105.48	110.67
33	4G	201	CYC	C1B-CHB-C4A	4.08	138.04	128.08
43	cE	515	BCR	C21-C20-C19	-4.08	110.50	123.22
33	l2	201	CYC	C1B-NB-C4B	-4.07	105.48	110.67
33	j8	201	CYC	C1B-NB-C4B	-4.07	105.48	110.67
33	j2	201	CYC	C1B-NB-C4B	-4.07	105.48	110.67
43	X1	102	BCR	C38-C26-C27	4.07	121.44	113.62
36	CD	508	CLA	CMB-C2B-C1B	-4.07	122.21	128.46
36	D1	405	CLA	CMB-C2B-C3B	4.07	132.29	124.68
33	bF	201	CYC	CMC-C2C-C1C	-4.07	103.63	112.40
33	5L	201	CYC	C1B-NB-C4B	-4.07	105.49	110.67
47	VD	201	HEM	CHD-C1D-C2D	-4.07	118.62	124.98
33	ZB	201	CYC	CHA-C1A-NA	-4.07	123.18	128.83
33	l3	201	CYC	C1B-NB-C4B	-4.07	105.49	110.67
33	h7	201	CYC	C1B-NB-C4B	-4.06	105.49	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	l7	201	CYC	C1B-NB-C4B	-4.06	105.49	110.67
36	cE	510	CLA	C1B-CHB-C4A	-4.06	122.07	130.12
43	XD	102	BCR	C38-C26-C27	4.06	121.42	113.62
47	V1	201	HEM	CHD-C1D-C2D	-4.06	118.63	124.98
36	DE	406	CLA	CMB-C2B-C3B	4.06	132.28	124.68
36	DD	406	CLA	CMB-C2B-C3B	4.06	132.28	124.68
33	u4	201	CYC	CAB-C3B-C4B	4.06	127.79	121.38
36	C1	508	CLA	CMB-C2B-C1B	-4.06	122.22	128.46
33	bK	201	CYC	CMC-C2C-C1C	-4.06	103.65	112.40
36	CD	506	CLA	CMA-C3A-C4A	-4.06	100.86	111.77
43	hE	105	BCR	C38-C26-C27	4.06	121.41	113.62
33	MG	201	CYC	CMB-C2B-C1B	4.06	129.23	124.17
36	d1	406	CLA	CMB-C2B-C3B	4.06	132.27	124.68
33	VB	201	CYC	CBA-CAA-C2A	4.06	123.90	112.63
33	AL	201	CYC	OC-C1C-C2C	-4.06	122.95	126.17
36	b1	604	CLA	CMA-C3A-C4A	-4.06	100.87	111.77
33	h2	201	CYC	C1B-NB-C4B	-4.06	105.50	110.67
33	jC	201	CYC	C1B-NB-C4B	-4.06	105.50	110.67
33	aB	201	CYC	CMA-C3A-C4A	4.06	131.31	125.06
36	CE	506	CLA	CMA-C3A-C4A	-4.06	100.87	111.77
33	uB	201	CYC	CAC-C3C-C4C	4.06	123.09	112.67
47	VE	201	HEM	CHD-C1D-C2D	-4.06	118.64	124.98
43	XE	102	BCR	C38-C26-C27	4.06	121.41	113.62
36	C1	506	CLA	CMA-C3A-C4A	-4.05	100.88	111.77
33	l9	201	CYC	C1B-NB-C4B	-4.05	105.51	110.67
33	AG	201	CYC	OC-C1C-C2C	-4.05	122.95	126.17
33	B4	1004	CYC	C1B-NB-C4B	-4.05	105.51	110.67
36	A1	405	CLA	CMB-C2B-C1B	-4.05	122.23	128.46
36	bE	604	CLA	CHB-C4A-NA	4.05	130.12	124.51
33	VB	201	CYC	C4D-CHA-C1A	-4.05	123.97	128.81
33	rB	201	CYC	C2A-C1A-NA	4.05	115.94	110.05
33	hJ	201	CYC	C1B-NB-C4B	-4.05	105.51	110.67
33	jJ	201	CYC	C1B-NB-C4B	-4.05	105.51	110.67
36	BE	602	CLA	CMA-C3A-C4A	-4.05	100.89	111.77
33	V4	201	CYC	CBA-CAA-C2A	4.05	123.88	112.63
33	4L	201	CYC	C1B-CHB-C4A	4.05	137.97	128.08
33	XF	201	CYC	C2B-C1B-NB	4.05	112.92	106.99
36	dD	406	CLA	CMB-C2B-C3B	4.05	132.25	124.68
36	B1	602	CLA	CMA-C3A-C4A	-4.05	100.89	111.77
36	dE	406	CLA	CMB-C2B-C3B	4.05	132.25	124.68
36	BD	602	CLA	CMA-C3A-C4A	-4.05	100.90	111.77
33	XK	201	CYC	C2B-C1B-NB	4.05	112.91	106.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	NL	201	CYC	C1B-C2B-C3B	-4.04	103.65	107.87
43	iE	102	BCR	C20-C21-C22	4.04	133.08	127.31
33	C4	1003	CYC	CHB-C4A-C3A	4.04	135.29	124.90
33	CB	1003	CYC	CHB-C4A-C3A	4.04	135.29	124.90
33	NG	201	CYC	C1B-C2B-C3B	-4.04	103.66	107.87
33	u4	201	CYC	CAC-C3C-C4C	4.04	123.05	112.67
40	BD	622	LMT	C2'-C3'-C4'	4.04	118.90	109.68
33	ML	201	CYC	CMB-C2B-C1B	4.04	129.21	124.17
36	bD	604	CLA	CHB-C4A-NA	4.04	130.09	124.51
40	BE	622	LMT	C2'-C3'-C4'	4.03	118.89	109.68
33	b3	201	CYC	C1B-NB-C4B	-4.03	105.53	110.67
33	r4	201	CYC	C2A-C1A-NA	4.03	115.91	110.05
33	b4	101	CYC	C1B-NB-C4B	-4.03	105.54	110.67
33	dJ	201	CYC	C1B-NB-C4B	-4.03	105.54	110.67
33	d2	201	CYC	C1B-NB-C4B	-4.03	105.54	110.67
33	uB	201	CYC	CAB-C3B-C4B	4.03	127.74	121.38
33	R4	201	CYC	CAB-C3B-C4B	4.03	127.74	121.38
33	BB	1004	CYC	C1B-NB-C4B	-4.03	105.54	110.67
33	d6	201	CYC	C1B-NB-C4B	-4.03	105.54	110.67
36	cD	507	CLA	CHD-C1D-ND	-4.03	120.75	124.45
33	1L	201	CYC	CAB-C3B-C4B	4.03	127.74	121.38
33	SB	201	CYC	CHB-C4A-NA	-4.03	116.51	124.93
33	V4	201	CYC	C4D-CHA-C1A	-4.02	124.00	128.81
45	DD	401	PHO	CMB-C2B-C3B	4.02	132.21	124.68
43	iD	102	BCR	C20-C21-C22	4.02	133.05	127.31
37	AE	406	PL9	C40-C39-C41	4.02	122.04	115.27
33	9F	201	CYC	CHB-C4A-NA	-4.02	116.52	124.93
33	9K	201	CYC	CHB-C4A-NA	-4.02	116.53	124.93
36	b1	607	CLA	O2D-CGD-O1D	-4.02	115.98	123.84
40	a1	401	LMT	C2'-C3'-C4'	4.02	118.86	109.68
33	B4	1002	CYC	CHB-C4A-C3A	4.02	135.23	124.90
36	b1	604	CLA	CHB-C4A-NA	4.02	130.07	124.51
33	dA	201	CYC	C1B-NB-C4B	-4.02	105.56	110.67
33	bB	101	CYC	C1B-NB-C4B	-4.02	105.56	110.67
33	B4	1004	CYC	C1B-C2B-C3B	-4.01	103.68	107.87
33	BB	1002	CYC	CHB-C4A-C3A	4.01	135.22	124.90
33	1G	201	CYC	CAB-C3B-C4B	4.01	127.72	121.38
33	RB	201	CYC	CAB-C3B-C4B	4.01	127.71	121.38
36	AE	405	CLA	CMB-C2B-C1B	-4.01	122.30	128.46
33	f3	201	CYC	C1B-NB-C4B	-4.01	105.56	110.67
33	w4	201	CYC	C1B-NB-C4B	-4.01	105.56	110.67
33	S4	201	CYC	CHB-C4A-NA	-4.01	116.55	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	bI	201	CYC	C1B-NB-C4B	-4.01	105.56	110.67
33	NL	201	CYC	CAB-C3B-C4B	4.01	127.71	121.38
33	2G	101	CYC	C2A-C1A-NA	4.01	115.88	110.05
33	dH	201	CYC	C1B-NB-C4B	-4.01	105.57	110.67
37	AD	406	PL9	C40-C39-C41	4.01	122.01	115.27
33	NG	201	CYC	CAB-C3B-C4B	4.00	127.70	121.38
33	b2	201	CYC	C1B-NB-C4B	-4.00	105.57	110.67
33	b6	201	CYC	C1B-NB-C4B	-4.00	105.57	110.67
33	bH	201	CYC	C1B-NB-C4B	-4.00	105.57	110.67
33	z4	201	CYC	CBA-CAA-C2A	4.00	123.75	112.63
36	AD	405	CLA	CMB-C2B-C1B	-4.00	122.31	128.46
33	bJ	201	CYC	C1B-NB-C4B	-4.00	105.58	110.67
33	zB	201	CYC	CBA-CAA-C2A	4.00	123.74	112.63
33	BB	1004	CYC	C1B-C2B-C3B	-4.00	103.70	107.87
36	cE	507	CLA	CHD-C1D-ND	-4.00	120.78	124.45
37	A1	406	PL9	C40-C39-C41	4.00	122.00	115.27
33	bC	201	CYC	C1B-NB-C4B	-4.00	105.58	110.67
33	f2	201	CYC	C1B-NB-C4B	-4.00	105.58	110.67
36	BD	602	CLA	CHB-C4A-NA	4.00	130.04	124.51
36	c1	507	CLA	CHD-C1D-ND	-4.00	120.78	124.45
33	b8	201	CYC	C1B-NB-C4B	-4.00	105.58	110.67
43	BE	616	BCR	C11-C10-C9	-4.00	121.61	127.31
36	BD	605	CLA	O2D-CGD-O1D	-4.00	116.03	123.84
33	d5	201	CYC	C1B-NB-C4B	-4.00	105.58	110.67
43	BD	616	BCR	C11-C10-C9	-4.00	121.61	127.31
36	BE	605	CLA	O2D-CGD-O1D	-3.99	116.03	123.84
33	dI	201	CYC	C1B-NB-C4B	-3.99	105.58	110.67
33	f6	201	CYC	C1B-NB-C4B	-3.99	105.58	110.67
43	B1	616	BCR	C11-C10-C9	-3.99	121.61	127.31
43	i1	101	BCR	C20-C21-C22	3.99	133.01	127.31
33	fI	201	CYC	C1B-NB-C4B	-3.99	105.59	110.67
33	fA	201	CYC	C1B-NB-C4B	-3.99	105.59	110.67
33	d7	201	CYC	C1B-NB-C4B	-3.99	105.59	110.67
33	fJ	201	CYC	C1B-NB-C4B	-3.99	105.59	110.67
33	QB	201	CYC	C1A-C2A-C3A	-3.99	102.37	106.78
33	fH	201	CYC	C1B-NB-C4B	-3.99	105.59	110.67
36	bD	607	CLA	O2D-CGD-O1D	-3.99	116.04	123.84
36	BE	602	CLA	CHB-C4A-NA	3.99	130.02	124.51
33	b5	201	CYC	C1B-NB-C4B	-3.99	105.59	110.67
33	f9	201	CYC	C1B-NB-C4B	-3.99	105.59	110.67
33	dC	201	CYC	C1B-NB-C4B	-3.98	105.60	110.67
33	2L	101	CYC	C2A-C1A-NA	3.98	115.84	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	iJ	202	CYC	C2B-C1B-NB	3.98	112.82	106.99
33	b7	201	CYC	C1B-NB-C4B	-3.98	105.60	110.67
33	wB	201	CYC	C1B-NB-C4B	-3.98	105.60	110.67
33	Q4	201	CYC	C2B-C1B-NB	3.98	112.82	106.99
33	i5	202	CYC	C2B-C1B-NB	3.98	112.82	106.99
36	bE	607	CLA	O2D-CGD-O1D	-3.98	116.06	123.84
33	v4	201	CYC	OB-C4B-C3B	-3.98	123.72	128.04
33	d9	201	CYC	C1B-NB-C4B	-3.98	105.60	110.67
33	fC	201	CYC	C1B-NB-C4B	-3.98	105.60	110.67
33	VG	201	CYC	C2C-C1C-NC	-3.98	104.84	108.27
33	iC	202	CYC	C2B-C1B-NB	3.98	112.81	106.99
33	eF	201	CYC	OB-C4B-C3B	-3.98	123.73	128.04
33	d8	201	CYC	C1B-NB-C4B	-3.97	105.61	110.67
43	b1	617	BCR	C11-C10-C9	-3.97	121.64	127.31
33	bA	201	CYC	C1B-NB-C4B	-3.97	105.61	110.67
33	f7	201	CYC	C1B-NB-C4B	-3.97	105.61	110.67
36	B1	605	CLA	O2D-CGD-O1D	-3.97	116.07	123.84
33	rB	201	CYC	CHA-C1A-C2A	-3.97	116.14	125.32
33	b9	201	CYC	C1B-NB-C4B	-3.97	105.61	110.67
36	B1	602	CLA	CHB-C4A-NA	3.97	130.00	124.51
33	Q4	201	CYC	C1A-C2A-C3A	-3.97	102.39	106.78
33	rB	201	CYC	C1B-NB-C4B	-3.97	105.62	110.67
33	JG	201	CYC	CHA-C1A-NA	-3.97	123.32	128.83
33	dK	201	CYC	OC-C1C-C2C	-3.97	123.02	126.17
43	hD	105	BCR	C33-C5-C6	-3.97	120.07	124.53
33	i3	202	CYC	C2B-C1B-NB	3.97	112.80	106.99
33	r4	201	CYC	CHA-C1A-C2A	-3.96	116.16	125.32
33	VL	201	CYC	C2C-C1C-NC	-3.96	104.86	108.27
33	O4	201	CYC	C1B-NB-C4B	-3.96	105.62	110.67
33	f5	201	CYC	C1B-NB-C4B	-3.96	105.62	110.67
43	bD	617	BCR	C11-C10-C9	-3.96	121.65	127.31
36	aE	405	CLA	O2D-CGD-CBD	3.96	118.31	111.27
33	QB	201	CYC	C2B-C1B-NB	3.96	112.79	106.99
43	bE	617	BCR	C11-C10-C9	-3.96	121.66	127.31
36	cE	513	CLA	CMB-C2B-C1B	-3.96	122.38	128.46
33	3F	102	CYC	C4D-CHA-C1A	3.96	133.54	128.81
43	h1	105	BCR	C33-C5-C6	-3.96	120.08	124.53
43	hE	105	BCR	C33-C5-C6	-3.96	120.08	124.53
33	r4	201	CYC	C1B-NB-C4B	-3.96	105.63	110.67
36	cD	513	CLA	CMB-C2B-C1B	-3.96	122.38	128.46
33	eK	201	CYC	OB-C4B-C3B	-3.96	123.74	128.04
33	d3	201	CYC	C1B-NB-C4B	-3.96	105.63	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	C1	502	LMG	O7-C10-C11	3.96	120.03	111.50
33	f8	201	CYC	C1B-NB-C4B	-3.96	105.63	110.67
45	DD	403	PHO	CBA-CAA-C2A	3.96	125.37	113.81
33	mK	201	CYC	C2C-C1C-NC	-3.95	104.86	108.27
33	P4	201	CYC	CHB-C4A-C3A	3.95	135.07	124.90
33	iH	202	CYC	C2B-C1B-NB	3.95	112.78	106.99
39	CD	502	LMG	O7-C10-C11	3.95	120.02	111.50
36	aD	405	CLA	O2D-CGD-CBD	3.95	118.29	111.27
33	iI	202	CYC	C2B-C1B-NB	3.95	112.77	106.99
33	i8	202	CYC	C2B-C1B-NB	3.95	112.77	106.99
33	iA	202	CYC	C2B-C1B-NB	3.95	112.77	106.99
36	cE	508	CLA	CMB-C2B-C3B	3.95	132.07	124.68
33	nF	201	CYC	C2B-C1B-NB	3.95	112.77	106.99
33	i2	202	CYC	C2B-C1B-NB	3.95	112.77	106.99
39	aE	409	LMG	O7-C10-C11	3.95	120.01	111.50
33	oB	201	CYC	CMB-C2B-C1B	3.95	129.09	124.17
33	PB	201	CYC	CHB-C4A-C3A	3.95	135.05	124.90
33	OB	201	CYC	C1B-NB-C4B	-3.94	105.65	110.67
36	H1	101	CLA	CMB-C2B-C1B	-3.94	122.40	128.46
33	QG	201	CYC	C1B-C2B-C3B	-3.94	103.76	107.87
33	eJ	201	CYC	C2B-C1B-NB	3.94	112.76	106.99
33	gF	201	CYC	C1B-C2B-C3B	-3.94	103.76	107.87
33	JL	201	CYC	CHA-C1A-NA	-3.94	123.36	128.83
36	h1	101	CLA	CMB-C2B-C1B	-3.94	122.41	128.46
36	c1	508	CLA	CMB-C2B-C3B	3.94	132.05	124.68
39	CE	502	LMG	O7-C10-C11	3.94	119.99	111.50
33	i7	202	CYC	C2B-C1B-NB	3.94	112.75	106.99
36	c1	513	CLA	CMB-C2B-C1B	-3.94	122.41	128.46
36	C1	508	CLA	C4D-C3D-CAD	-3.94	103.46	108.10
33	gF	201	CYC	OC-C1C-C2C	-3.94	123.04	126.17
33	rB	201	CYC	C2C-C1C-NC	3.94	111.67	108.27
36	HD	101	CLA	CMB-C2B-C1B	-3.94	122.42	128.46
36	a1	406	CLA	CMB-C2B-C1B	-3.94	122.42	128.46
36	a1	406	CLA	O2D-CGD-CBD	3.93	118.26	111.27
33	k7	201	CYC	C2B-C1B-NB	3.93	112.75	106.99
33	i9	202	CYC	C2B-C1B-NB	3.93	112.74	106.99
33	nK	201	CYC	C2B-C1B-NB	3.93	112.74	106.99
39	a1	410	LMG	O7-C10-C11	3.93	119.97	111.50
33	mF	201	CYC	C2C-C1C-NC	-3.93	104.89	108.27
36	cD	508	CLA	CMB-C2B-C3B	3.93	132.03	124.68
33	oB	201	CYC	C2B-C1B-NB	3.93	112.74	106.99
39	aD	409	LMG	O7-C10-C11	3.93	119.97	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	AL	201	CYC	OB-C4B-C3B	-3.93	123.78	128.04
36	aD	405	CLA	CMB-C2B-C1B	-3.93	122.42	128.46
33	i6	202	CYC	C2B-C1B-NB	3.93	112.74	106.99
33	RB	201	CYC	CMA-C3A-C2A	-3.93	115.46	126.12
33	k2	201	CYC	C2B-C1B-NB	3.93	112.74	106.99
33	eI	201	CYC	C2B-C1B-NB	3.93	112.73	106.99
43	i1	101	BCR	C1-C6-C5	-3.93	117.08	122.61
33	oB	201	CYC	OB-C4B-C3B	-3.92	123.78	128.04
33	vB	201	CYC	CHB-C1B-NB	-3.92	117.63	126.06
33	4L	201	CYC	C1B-C2B-C3B	-3.92	103.78	107.87
33	dF	201	CYC	OC-C1C-C2C	-3.92	123.05	126.17
33	B3	301	CYC	C2B-C1B-NB	3.92	112.73	106.99
33	gJ	202	CYC	C2B-C1B-NB	3.92	112.73	106.99
33	e5	201	CYC	C2B-C1B-NB	3.92	112.73	106.99
33	gK	201	CYC	C1B-C2B-C3B	-3.92	103.78	107.87
36	hD	101	CLA	CMB-C2B-C1B	-3.92	122.44	128.46
36	aE	405	CLA	CMB-C2B-C1B	-3.92	122.44	128.46
33	e8	201	CYC	C2B-C1B-NB	3.92	112.73	106.99
38	c1	501	SQD	O47-C7-C8	3.92	119.95	111.50
33	AG	201	CYC	OB-C4B-C3B	-3.92	123.79	128.04
33	BI	301	CYC	C2B-C1B-NB	3.92	112.72	106.99
33	BC	301	CYC	C2B-C1B-NB	3.92	112.72	106.99
33	R4	201	CYC	CMA-C3A-C2A	-3.92	115.48	126.12
33	JG	201	CYC	CHB-C4A-NA	-3.92	116.74	124.93
36	CE	506	CLA	CMA-C3A-C2A	-3.92	98.03	113.83
36	CD	508	CLA	C4D-C3D-CAD	-3.92	103.48	108.10
33	3K	102	CYC	C4D-CHA-C1A	3.92	133.49	128.81
36	c1	504	CLA	CAA-C2A-C3A	-3.92	102.06	112.78
47	V1	201	HEM	CHB-C1B-NB	3.92	129.22	124.38
33	eC	201	CYC	C2B-C1B-NB	3.92	112.72	106.99
36	hE	101	CLA	CMB-C2B-C1B	-3.92	122.45	128.46
33	kH	201	CYC	C2B-C1B-NB	3.91	112.72	106.99
36	CE	508	CLA	C4D-C3D-CAD	-3.91	103.48	108.10
33	2G	101	CYC	CMC-C2C-C1C	-3.91	103.97	112.40
36	CD	506	CLA	CMA-C3A-C2A	-3.91	98.04	113.83
33	e3	201	CYC	C2B-C1B-NB	3.91	112.72	106.99
33	o4	201	CYC	OB-C4B-C3B	-3.91	123.79	128.04
33	o4	201	CYC	C2B-C1B-NB	3.91	112.72	106.99
33	o4	201	CYC	CMB-C2B-C1B	3.91	129.05	124.17
36	cE	505	CLA	CAA-C2A-C3A	-3.91	102.06	112.78
36	HE	101	CLA	CMB-C2B-C1B	-3.91	122.45	128.46
47	VE	201	HEM	CHB-C1B-NB	3.91	129.21	124.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	YF	201	CYC	OC-C1C-C2C	-3.91	123.06	126.17
33	kA	201	CYC	C2B-C1B-NB	3.91	112.71	106.99
33	r4	201	CYC	C2C-C1C-NC	3.91	111.64	108.27
33	6G	201	CYC	C1B-C2B-C3B	-3.91	103.79	107.87
33	B6	301	CYC	C2B-C1B-NB	3.91	112.71	106.99
36	cD	505	CLA	CAA-C2A-C3A	-3.91	102.08	112.78
33	BA	301	CYC	C2B-C1B-NB	3.91	112.71	106.99
45	aD	412	PHO	C11-C10-C8	3.91	128.55	115.92
33	v4	201	CYC	CHB-C1B-NB	-3.91	117.67	126.06
33	vB	201	CYC	OB-C4B-C3B	-3.91	123.80	128.04
36	C1	506	CLA	CMA-C3A-C2A	-3.91	98.07	113.83
47	VD	201	HEM	CHB-C1B-NB	3.91	129.21	124.38
33	4L	201	CYC	CHA-C1A-C2A	-3.91	116.30	125.32
33	6L	201	CYC	CMC-C2C-C1C	-3.91	103.98	112.40
33	k9	201	CYC	C2B-C1B-NB	3.91	112.71	106.99
33	eH	201	CYC	C2B-C1B-NB	3.91	112.71	106.99
43	XD	102	BCR	C33-C5-C6	-3.91	120.14	124.53
33	k3	201	CYC	C2B-C1B-NB	3.91	112.70	106.99
33	4G	201	CYC	C1B-C2B-C3B	-3.90	103.80	107.87
43	X1	102	BCR	C33-C5-C6	-3.90	120.14	124.53
33	e9	201	CYC	C2B-C1B-NB	3.90	112.70	106.99
33	6G	201	CYC	CMC-C2C-C1C	-3.90	103.99	112.40
33	PG	201	CYC	C4D-CHA-C1A	3.90	133.47	128.81
33	e6	201	CYC	C2B-C1B-NB	3.90	112.70	106.99
33	g8	202	CYC	C2B-C1B-NB	3.90	112.70	106.99
33	JL	201	CYC	CHB-C4A-NA	-3.90	116.77	124.93
33	k6	201	CYC	C2B-C1B-NB	3.90	112.70	106.99
33	TG	201	CYC	C2C-C1C-NC	3.90	111.64	108.27
33	PL	201	CYC	C4D-CHA-C1A	3.90	133.47	128.81
43	iD	102	BCR	C1-C6-C5	-3.90	117.12	122.61
33	2L	101	CYC	CMC-C2C-C1C	-3.90	104.00	112.40
33	eA	201	CYC	C2B-C1B-NB	3.90	112.69	106.99
33	gH	202	CYC	C2B-C1B-NB	3.90	112.69	106.99
33	WL	201	CYC	CHA-C1A-NA	-3.90	123.42	128.83
38	cD	502	SQD	O47-C7-C8	3.90	119.90	111.50
33	e2	201	CYC	C2B-C1B-NB	3.90	112.69	106.99
39	CE	519	LMG	O7-C10-C11	3.89	119.89	111.50
33	kI	201	CYC	C2B-C1B-NB	3.89	112.69	106.99
33	bK	201	CYC	C2B-C1B-NB	3.89	112.69	106.99
33	bB	101	CYC	C2C-C1C-NC	3.89	111.63	108.27
33	k8	201	CYC	C2B-C1B-NB	3.89	112.68	106.99
33	TB	201	CYC	C1B-C2B-C3B	-3.89	103.81	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	k5	201	CYC	C2B-C1B-NB	3.89	112.68	106.99
33	XF	201	CYC	C2C-C1C-NC	3.89	111.62	108.27
38	cE	502	SQD	O47-C7-C8	3.89	119.88	111.50
33	QL	201	CYC	C1B-C2B-C3B	-3.89	103.81	107.87
39	MD	101	LMG	O7-C10-C11	3.89	119.88	111.50
33	kC	201	CYC	C2B-C1B-NB	3.89	112.68	106.99
33	c5	201	CYC	C2B-C1B-NB	3.89	112.68	106.99
33	XK	201	CYC	C2C-C1C-NC	3.88	111.62	108.27
36	CE	511	CLA	C1B-CHB-C4A	-3.88	122.42	130.12
36	C1	511	CLA	C1B-CHB-C4A	-3.88	122.42	130.12
33	4G	201	CYC	CHA-C1A-C2A	-3.88	116.35	125.32
33	c9	201	CYC	C2B-C1B-NB	3.88	112.67	106.99
36	CD	511	CLA	C1B-CHB-C4A	-3.88	122.43	130.12
33	g5	202	CYC	C2B-C1B-NB	3.88	112.67	106.99
33	c2	201	CYC	C2B-C1B-NB	3.88	112.67	106.99
33	B9	301	CYC	C2B-C1B-NB	3.88	112.67	106.99
39	ME	101	LMG	O7-C10-C11	3.88	119.87	111.50
33	gK	201	CYC	OC-C1C-C2C	-3.88	123.09	126.17
33	e7	201	CYC	C2B-C1B-NB	3.88	112.67	106.99
33	cJ	201	CYC	C2B-C1B-NB	3.88	112.67	106.99
33	WG	201	CYC	CHA-C1A-NA	-3.88	123.44	128.83
33	6G	201	CYC	CMB-C2B-C1B	3.88	129.01	124.17
33	kJ	201	CYC	C2B-C1B-NB	3.88	112.67	106.99
39	CD	519	LMG	O7-C10-C11	3.88	119.86	111.50
33	c3	201	CYC	C2B-C1B-NB	3.88	112.67	106.99
33	B2	301	CYC	C2B-C1B-NB	3.88	112.66	106.99
33	XF	201	CYC	C1B-NB-C4B	-3.88	105.73	110.67
39	M1	101	LMG	O7-C10-C11	3.88	119.86	111.50
43	ZD	101	BCR	C32-C1-C6	3.88	116.58	110.30
33	ZB	201	CYC	C1B-C2B-C3B	-3.88	103.83	107.87
33	nF	201	CYC	C1B-NB-C4B	-3.87	105.74	110.67
33	cI	201	CYC	C2B-C1B-NB	3.87	112.66	106.99
33	hF	201	CYC	OC-C1C-C2C	-3.87	123.09	126.17
33	hK	201	CYC	OC-C1C-C2C	-3.87	123.09	126.17
33	TB	201	CYC	C1B-CHB-C4A	3.87	137.54	128.08
33	T4	201	CYC	C1B-CHB-C4A	3.87	137.54	128.08
33	Z4	201	CYC	C1B-NB-C4B	-3.87	105.74	110.67
36	BE	603	CLA	CMB-C2B-C1B	-3.87	122.51	128.46
33	cC	201	CYC	C2B-C1B-NB	3.87	112.66	106.99
43	ZE	101	BCR	C32-C1-C6	3.87	116.58	110.30
33	sB	201	CYC	C1A-C2A-C3A	-3.87	102.50	106.78
33	eF	201	CYC	C1A-C2A-C3A	-3.87	102.50	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B1	603	CLA	CMB-C2B-C1B	-3.87	122.52	128.46
33	6L	201	CYC	C1B-C2B-C3B	-3.87	103.83	107.87
33	TB	201	CYC	CAC-C3C-C2C	-3.87	104.59	114.26
43	z1	101	BCR	C32-C1-C6	3.87	116.58	110.30
33	B7	301	CYC	C2B-C1B-NB	3.87	112.65	106.99
33	T4	201	CYC	C1B-C2B-C3B	-3.87	103.83	107.87
43	XE	102	BCR	C33-C5-C6	-3.87	120.18	124.53
43	Z1	101	BCR	C32-C1-C6	3.87	116.57	110.30
33	JG	201	CYC	C2C-C1C-NC	3.87	111.61	108.27
33	s4	201	CYC	C1A-C2A-C3A	-3.87	102.50	106.78
43	iE	102	BCR	C1-C6-C5	-3.87	117.17	122.61
33	Z4	201	CYC	C1B-C2B-C3B	-3.87	103.83	107.87
43	zE	101	BCR	C32-C1-C6	3.87	116.57	110.30
47	vD	201	HEM	CHB-C1B-NB	3.86	129.16	124.38
33	bF	201	CYC	C2B-C1B-NB	3.86	112.64	106.99
33	B4	1004	CYC	C2A-C1A-NA	3.86	115.67	110.05
43	zD	101	BCR	C32-C1-C6	3.86	116.56	110.30
47	VD	201	HEM	C1B-NB-C4B	3.86	109.06	105.07
33	T4	201	CYC	CAC-C3C-C2C	-3.86	104.61	114.26
36	BD	603	CLA	CMB-C2B-C1B	-3.86	122.53	128.46
36	cE	511	CLA	CMB-C2B-C1B	-3.86	122.53	128.46
33	BB	1004	CYC	C2A-C1A-NA	3.86	115.66	110.05
33	zB	201	CYC	C4A-C3A-C2A	-3.86	102.08	106.51
36	CD	508	CLA	CMD-C2D-C3D	3.86	136.49	127.61
33	cH	201	CYC	C2B-C1B-NB	3.86	112.64	106.99
33	6L	201	CYC	CMB-C2B-C1B	3.86	128.99	124.17
33	eK	201	CYC	C1A-C2A-C3A	-3.86	102.51	106.78
47	vE	201	HEM	CHB-C1B-NB	3.86	129.15	124.38
43	zE	101	BCR	C10-C11-C12	-3.86	111.17	123.22
33	c6	201	CYC	C2B-C1B-NB	3.86	112.64	106.99
36	C1	508	CLA	CMD-C2D-C3D	3.86	136.49	127.61
43	ZD	101	BCR	C10-C11-C12	-3.86	111.18	123.22
33	B4	1002	CYC	C2B-C1B-NB	3.86	112.64	106.99
43	CE	520	BCR	C20-C21-C22	-3.86	121.81	127.31
33	bK	201	CYC	CHB-C4A-C3A	3.86	134.82	124.90
33	IF	201	CYC	C2C-C1C-NC	3.86	111.60	108.27
39	C1	519	LMG	O7-C10-C11	3.86	119.81	111.50
43	zD	101	BCR	C10-C11-C12	-3.86	111.19	123.22
39	m1	101	LMG	O7-C10-C11	3.85	119.81	111.50
47	v1	201	HEM	CHB-C1B-NB	3.85	129.14	124.38
33	CB	1003	CYC	C2B-C1B-NB	3.85	112.63	106.99
43	ZE	101	BCR	C10-C11-C12	-3.85	111.19	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	C4	1003	CYC	C2B-C1B-NB	3.85	112.63	106.99
33	cK	201	CYC	CHA-C1A-C2A	-3.85	116.42	125.32
43	Z1	101	BCR	C10-C11-C12	-3.85	111.20	123.22
39	mE	101	LMG	O7-C10-C11	3.85	119.80	111.50
33	cF	201	CYC	CHA-C1A-C2A	-3.85	116.42	125.32
33	QG	201	CYC	OC-C1C-C2C	-3.85	123.11	126.17
33	bF	201	CYC	CHB-C4A-C3A	3.85	134.80	124.90
33	CB	1001	CYC	CHD-C4C-NC	3.85	129.78	125.20
33	b4	101	CYC	C2C-C1C-NC	3.85	111.59	108.27
33	c7	201	CYC	C2B-C1B-NB	3.85	112.62	106.99
36	cD	511	CLA	CMB-C2B-C1B	-3.85	122.55	128.46
33	ZB	201	CYC	C1B-NB-C4B	-3.85	105.77	110.67
33	C4	1001	CYC	CHD-C4C-NC	3.85	129.78	125.20
33	c8	201	CYC	C2B-C1B-NB	3.85	112.62	106.99
33	XK	201	CYC	C1B-NB-C4B	-3.85	105.77	110.67
39	mD	101	LMG	O7-C10-C11	3.84	119.79	111.50
33	CB	1003	CYC	C1B-C2B-C3B	-3.84	103.86	107.87
33	TL	201	CYC	C2C-C1C-NC	3.84	111.59	108.27
33	z4	201	CYC	C4A-C3A-C2A	-3.84	102.09	106.51
33	2L	101	CYC	CMB-C2B-C1B	3.84	128.97	124.17
36	c1	511	CLA	CMB-C2B-C1B	-3.84	122.56	128.46
33	QL	201	CYC	OC-C1C-C2C	-3.84	123.12	126.17
33	nK	201	CYC	C1B-NB-C4B	-3.84	105.78	110.67
38	CE	501	SQD	O47-C7-C8	3.84	119.78	111.50
33	cA	201	CYC	C2B-C1B-NB	3.84	112.61	106.99
36	CE	508	CLA	CMD-C2D-C3D	3.84	136.45	127.61
33	YK	201	CYC	OC-C1C-C2C	-3.84	123.12	126.17
43	z1	101	BCR	C10-C11-C12	-3.84	111.23	123.22
38	CD	501	SQD	O47-C7-C8	3.84	119.77	111.50
36	bE	605	CLA	CMB-C2B-C1B	-3.84	122.56	128.46
43	CD	520	BCR	C20-C21-C22	-3.84	121.83	127.31
38	C1	501	SQD	O47-C7-C8	3.84	119.77	111.50
36	I1	101	CLA	CMB-C2B-C3B	3.83	131.85	124.68
33	AL	201	CYC	C1A-C2A-C3A	-3.83	102.54	106.78
33	3F	101	CYC	CAB-C3B-C4B	3.83	127.43	121.38
33	7L	201	CYC	CHB-C4A-C3A	3.83	134.76	124.90
36	bD	605	CLA	CMB-C2B-C1B	-3.83	122.57	128.46
33	BB	1002	CYC	C2B-C1B-NB	3.83	112.60	106.99
33	ZK	201	CYC	C1B-NB-C4B	-3.83	105.79	110.67
43	c1	519	BCR	C24-C23-C22	-3.83	120.45	126.23
36	b1	605	CLA	CMB-C2B-C1B	-3.83	122.58	128.46
43	DD	407	BCR	C3-C4-C5	-3.83	107.24	114.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	BB	1002	CYC	C1B-C2B-C3B	-3.83	103.88	107.87
33	Z4	201	CYC	CHB-C4A-NA	-3.83	116.93	124.93
33	ZF	201	CYC	C1B-NB-C4B	-3.82	105.80	110.67
33	Q4	201	CYC	C1B-NB-C4B	-3.82	105.80	110.67
43	CE	520	BCR	C15-C14-C13	-3.82	121.85	127.31
33	XB	201	CYC	C2A-C1A-NA	3.82	115.61	110.05
43	C1	520	BCR	C20-C21-C22	-3.82	121.85	127.31
43	DE	407	BCR	C3-C4-C5	-3.82	107.25	114.08
33	QB	201	CYC	C1B-NB-C4B	-3.82	105.80	110.67
33	7G	201	CYC	CHB-C4A-C3A	3.82	134.73	124.90
43	C1	520	BCR	C15-C14-C13	-3.82	121.86	127.31
33	ZB	201	CYC	CHB-C4A-NA	-3.82	116.94	124.93
33	C4	1003	CYC	C1B-C2B-C3B	-3.82	103.88	107.87
33	B4	1002	CYC	C1B-C2B-C3B	-3.82	103.89	107.87
33	vB	201	CYC	C1B-C2B-C3B	-3.82	103.89	107.87
47	VE	201	HEM	C1B-NB-C4B	3.82	109.02	105.07
33	GL	201	CYC	OC-C1C-C2C	-3.82	123.14	126.17
33	IK	201	CYC	C2C-C1C-NC	3.82	111.56	108.27
43	D1	406	BCR	C3-C4-C5	-3.82	107.26	114.08
33	BB	1003	CYC	C2C-C1C-NC	3.82	111.56	108.27
33	AG	201	CYC	C1A-C2A-C3A	-3.81	102.56	106.78
33	JL	201	CYC	C2C-C1C-NC	3.81	111.56	108.27
33	NF	101	CYC	C1B-NB-C4B	-3.81	105.81	110.67
47	V1	201	HEM	C1B-NB-C4B	3.81	109.01	105.07
33	2G	101	CYC	CMB-C2B-C1B	3.81	128.92	124.17
43	D1	406	BCR	C16-C15-C14	-3.81	115.67	123.47
33	3F	102	CYC	CBA-CAA-C2A	3.81	123.21	112.63
43	CD	520	BCR	C15-C14-C13	-3.81	121.88	127.31
33	X4	201	CYC	C2A-C1A-NA	3.81	115.59	110.05
43	d1	407	BCR	C16-C15-C14	-3.81	115.68	123.47
33	NK	101	CYC	C1B-NB-C4B	-3.81	105.82	110.67
33	3K	102	CYC	CBA-CAA-C2A	3.81	123.20	112.63
36	ID	101	CLA	CMB-C2B-C3B	3.80	131.80	124.68
33	LL	201	CYC	CMA-C3A-C4A	3.80	130.92	125.06
43	dD	407	BCR	C3-C4-C5	-3.80	107.29	114.08
43	dE	407	BCR	C3-C4-C5	-3.80	107.29	114.08
43	d1	407	BCR	C3-C4-C5	-3.80	107.29	114.08
33	LF	201	CYC	CMB-C2B-C1B	3.80	128.91	124.17
33	v4	201	CYC	C1B-C2B-C3B	-3.80	103.91	107.87
36	IE	101	CLA	CMB-C2B-C3B	3.80	131.79	124.68
33	B4	1001	CYC	CBD-CAD-C3D	3.80	119.11	112.62
33	TL	201	CYC	CAB-C3B-C4B	3.80	127.38	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	DE	407	BCR	C16-C15-C14	-3.80	115.70	123.47
33	ML	201	CYC	CBA-CAA-C2A	3.80	123.18	112.63
36	c1	510	CLA	CAC-C3C-C4C	3.80	129.74	124.81
33	LK	201	CYC	CMB-C2B-C1B	3.80	128.91	124.17
33	3K	101	CYC	CAB-C3B-C4B	3.79	127.37	121.38
33	CB	1002	CYC	C1B-C2B-C3B	-3.79	103.91	107.87
33	TG	201	CYC	CAB-C3B-C4B	3.79	127.37	121.38
33	GG	201	CYC	OC-C1C-C2C	-3.79	123.16	126.17
43	dD	407	BCR	C16-C15-C14	-3.79	115.71	123.47
43	DD	407	BCR	C16-C15-C14	-3.79	115.71	123.47
43	dE	407	BCR	C16-C15-C14	-3.79	115.71	123.47
42	D1	408	LHG	O7-C7-C8	3.79	119.67	111.50
43	CE	520	BCR	C7-C8-C9	-3.79	120.51	126.23
33	C4	1002	CYC	C1B-C2B-C3B	-3.79	103.92	107.87
36	c1	509	CLA	C4D-C3D-CAD	-3.79	103.63	108.10
33	yB	201	CYC	OC-C1C-C2C	-3.79	123.16	126.17
33	jF	201	CYC	C1B-C2B-C3B	-3.79	103.92	107.87
33	zB	201	CYC	C1B-NB-C4B	-3.78	105.85	110.67
42	DD	409	LHG	O7-C7-C8	3.78	119.66	111.50
33	Q4	201	CYC	CBA-CAA-C2A	3.78	123.14	112.63
33	B4	1003	CYC	C2C-C1C-NC	3.78	111.53	108.27
33	BB	1001	CYC	CBD-CAD-C3D	3.78	119.08	112.62
43	cD	519	BCR	C24-C23-C22	-3.78	120.52	126.23
33	MG	201	CYC	CBA-CAA-C2A	3.78	123.13	112.63
33	IG	201	CYC	C1B-C2B-C3B	-3.78	103.93	107.87
36	cD	509	CLA	C4D-C3D-CAD	-3.78	103.64	108.10
33	QB	201	CYC	CBA-CAA-C2A	3.78	123.12	112.63
42	d1	409	LHG	O7-C7-C8	3.78	119.64	111.50
43	kE	102	BCR	C16-C17-C18	-3.78	121.92	127.31
42	dE	409	LHG	O7-C7-C8	3.78	119.64	111.50
42	DE	409	LHG	O7-C7-C8	3.78	119.64	111.50
36	cE	510	CLA	CAC-C3C-C4C	3.78	129.71	124.81
33	r4	201	CYC	C1B-C2B-C3B	-3.77	103.93	107.87
33	LG	201	CYC	CMA-C3A-C4A	3.77	130.88	125.06
36	cD	510	CLA	CAC-C3C-C4C	3.77	129.71	124.81
44	H1	103	DGD	O2G-C1B-C2B	3.77	119.63	111.50
33	rB	201	CYC	C1B-C2B-C3B	-3.77	103.94	107.87
33	AG	201	CYC	C2A-C1A-NA	3.77	115.53	110.05
33	z4	201	CYC	C1B-NB-C4B	-3.77	105.87	110.67
43	CD	520	BCR	C7-C8-C9	-3.77	120.54	126.23
44	HE	103	DGD	O2G-C1B-C2B	3.77	119.62	111.50
42	dD	409	LHG	O7-C7-C8	3.77	119.62	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	jK	201	CYC	C1B-C2B-C3B	-3.77	103.94	107.87
44	HD	103	DGD	O2G-C1B-C2B	3.77	119.62	111.50
33	5L	201	CYC	C1B-CHB-C4A	3.77	137.28	128.08
43	kD	102	BCR	C16-C17-C18	-3.77	121.94	127.31
33	ML	201	CYC	CHB-C1B-NB	-3.77	117.97	126.06
36	cE	509	CLA	C4D-C3D-CAD	-3.76	103.66	108.10
33	MG	201	CYC	CHB-C1B-NB	-3.76	117.98	126.06
33	7G	201	CYC	CHB-C1B-NB	-3.76	117.98	126.06
33	AL	201	CYC	C2A-C1A-NA	3.76	115.52	110.05
33	7L	201	CYC	CHB-C1B-NB	-3.76	117.98	126.06
43	cE	519	BCR	C24-C23-C22	-3.76	120.55	126.23
33	5G	201	CYC	C1B-CHB-C4A	3.76	137.26	128.08
47	v1	201	HEM	C1B-NB-C4B	3.76	108.95	105.07
33	IL	201	CYC	C1B-C2B-C3B	-3.75	103.95	107.87
33	uB	201	CYC	C1B-NB-C4B	-3.75	105.89	110.67
43	CD	521	BCR	C16-C17-C18	-3.75	121.96	127.31
43	cE	515	BCR	C27-C26-C25	-3.75	117.29	122.73
33	y4	201	CYC	OC-C1C-C2C	-3.75	123.19	126.17
39	yE	101	LMG	O7-C10-C11	3.75	119.58	111.50
39	yD	101	LMG	O7-C10-C11	3.75	119.58	111.50
33	b4	101	CYC	C2A-C1A-NA	3.75	115.50	110.05
33	KK	201	CYC	C2B-C1B-NB	3.75	112.47	106.99
33	CB	1002	CYC	C2A-C1A-NA	3.75	115.50	110.05
37	aE	408	PL9	C40-C39-C41	3.75	121.57	115.27
43	Z1	102	BCR	C16-C17-C18	-3.74	121.97	127.31
39	y1	101	LMG	O7-C10-C11	3.74	119.57	111.50
33	1G	201	CYC	CHA-C1A-NA	-3.74	123.64	128.83
37	aD	408	PL9	C40-C39-C41	3.74	121.56	115.27
33	uB	201	CYC	CMA-C3A-C4A	3.74	130.82	125.06
43	C1	520	BCR	C7-C8-C9	-3.74	120.59	126.23
33	sB	201	CYC	CHB-C4A-NA	-3.74	117.12	124.93
37	a1	409	PL9	C40-C39-C41	3.74	121.56	115.27
47	vD	201	HEM	C1B-NB-C4B	3.74	108.93	105.07
33	u4	201	CYC	C1B-NB-C4B	-3.73	105.91	110.67
33	ZF	201	CYC	C2C-C1C-NC	3.73	111.49	108.27
33	bB	101	CYC	C2A-C1A-NA	3.73	115.48	110.05
33	s4	201	CYC	CHB-C4A-NA	-3.73	117.13	124.93
43	ZE	102	BCR	C16-C17-C18	-3.73	121.99	127.31
33	B4	1001	CYC	C2C-C1C-NC	3.73	111.49	108.27
36	a1	405	CLA	CMB-C2B-C3B	3.73	131.65	124.68
47	vE	201	HEM	C1B-NB-C4B	3.73	108.92	105.07
33	BB	1001	CYC	C2C-C1C-NC	3.73	111.49	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	KF	201	CYC	C2B-C1B-NB	3.73	112.44	106.99
36	aD	404	CLA	CMB-C2B-C3B	3.73	131.65	124.68
43	c1	515	BCR	C15-C14-C13	-3.73	121.99	127.31
33	OB	201	CYC	C2C-C1C-NC	3.73	111.48	108.27
33	B4	1002	CYC	C2C-C1C-NC	3.73	111.48	108.27
43	cD	515	BCR	C15-C14-C13	-3.73	121.99	127.31
43	h1	105	BCR	C28-C27-C26	-3.73	107.42	114.08
43	XE	102	BCR	C28-C27-C26	-3.72	107.43	114.08
33	u4	201	CYC	CMA-C3A-C4A	3.72	130.80	125.06
33	CB	1003	CYC	C2C-C1C-NC	3.72	111.48	108.27
43	b1	616	BCR	C11-C10-C9	3.72	132.62	127.31
33	C4	1002	CYC	C2A-C1A-NA	3.72	115.47	110.05
43	hD	105	BCR	C28-C27-C26	-3.72	107.43	114.08
33	9K	201	CYC	C1B-C2B-C3B	-3.72	103.99	107.87
33	IG	201	CYC	OC-C1C-C2C	-3.72	123.21	126.17
33	IL	201	CYC	OC-C1C-C2C	-3.72	123.21	126.17
37	dD	408	PL9	C40-C39-C41	3.72	121.53	115.27
37	dE	408	PL9	C40-C39-C41	3.72	121.53	115.27
33	bF	201	CYC	CHD-C4C-NC	-3.72	120.78	125.20
33	ZK	201	CYC	C2C-C1C-NC	3.72	111.48	108.27
37	d1	408	PL9	C40-C39-C41	3.72	121.53	115.27
36	cE	506	CLA	CMA-C3A-C4A	-3.72	101.78	111.77
43	cE	515	BCR	C15-C14-C13	-3.72	122.00	127.31
36	A1	404	CLA	CHB-C4A-NA	3.72	129.65	124.51
33	q4	201	CYC	C1B-C2B-C3B	-3.72	103.99	107.87
43	k1	102	BCR	C16-C17-C18	-3.72	122.01	127.31
33	bK	201	CYC	CHD-C4C-NC	-3.71	120.79	125.20
43	cD	515	BCR	C27-C26-C25	-3.71	117.34	122.73
33	1L	201	CYC	CHA-C1A-NA	-3.71	123.68	128.83
43	hE	105	BCR	C28-C27-C26	-3.71	107.45	114.08
33	BB	1002	CYC	C2C-C1C-NC	3.71	111.47	108.27
36	cD	506	CLA	CMA-C3A-C4A	-3.71	101.80	111.77
33	z4	201	CYC	C1B-C2B-C3B	-3.71	104.00	107.87
43	XD	102	BCR	C28-C27-C26	-3.71	107.46	114.08
36	c1	505	CLA	CMA-C3A-C4A	-3.71	101.81	111.77
33	fJ	201	CYC	OC-C1C-C2C	-3.71	123.23	126.17
44	cE	518	DGD	O2G-C1B-C2B	3.71	119.49	111.50
33	BB	1004	CYC	C1A-C2A-C3A	-3.70	102.68	106.78
43	bD	616	BCR	C11-C10-C9	3.70	132.60	127.31
33	C4	1003	CYC	C2C-C1C-NC	3.70	111.47	108.27
36	AD	404	CLA	CHB-C4A-NA	3.70	129.63	124.51
33	aF	201	CYC	CMA-C3A-C4A	3.70	130.76	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	fA	201	CYC	OC-C1C-C2C	-3.70	123.23	126.17
33	aK	201	CYC	CMA-C3A-C4A	3.70	130.76	125.06
33	qB	201	CYC	C1B-C2B-C3B	-3.70	104.01	107.87
33	9F	201	CYC	C1B-C2B-C3B	-3.70	104.01	107.87
43	X1	102	BCR	C28-C27-C26	-3.70	107.47	114.08
33	b4	101	CYC	C1B-C2B-C3B	-3.70	104.01	107.87
36	bE	607	CLA	CMB-C2B-C3B	3.70	131.59	124.68
44	cD	518	DGD	O2G-C1B-C2B	3.70	119.47	111.50
36	CD	510	CLA	CHB-C4A-NA	3.70	129.62	124.51
43	CD	516	BCR	C37-C22-C23	3.70	123.90	118.08
43	c1	515	BCR	C37-C22-C23	3.70	123.90	118.08
33	B4	1004	CYC	C1A-C2A-C3A	-3.69	102.69	106.78
43	cD	515	BCR	C37-C22-C23	3.69	123.90	118.08
43	cE	515	BCR	C37-C22-C23	3.69	123.90	118.08
33	f6	201	CYC	OC-C1C-C2C	-3.69	123.24	126.17
33	zB	201	CYC	C1B-C2B-C3B	-3.69	104.02	107.87
37	D1	407	PL9	C40-C39-C41	3.69	121.48	115.27
36	aE	404	CLA	CMB-C2B-C3B	3.69	131.59	124.68
33	C4	1002	CYC	C4D-CHA-C1A	3.69	133.22	128.81
33	bB	101	CYC	C1B-C2B-C3B	-3.69	104.02	107.87
43	CE	516	BCR	C37-C22-C23	3.69	123.89	118.08
44	c1	518	DGD	O2G-C1B-C2B	3.69	119.46	111.50
37	DD	408	PL9	C40-C39-C41	3.69	121.48	115.27
36	CE	510	CLA	CHB-C4A-NA	3.69	129.62	124.51
33	TG	201	CYC	OC-C1C-C2C	-3.69	123.24	126.17
36	b1	607	CLA	CMB-C2B-C3B	3.69	131.58	124.68
43	bE	616	BCR	C11-C10-C9	3.69	132.57	127.31
33	HL	201	CYC	C1B-C2B-C3B	-3.69	104.02	107.87
33	gK	201	CYC	C2C-C1C-NC	3.69	111.45	108.27
36	AE	404	CLA	CHB-C4A-NA	3.69	129.61	124.51
33	OB	201	CYC	OC-C1C-C2C	-3.69	123.24	126.17
43	c1	515	BCR	C27-C26-C25	-3.68	117.38	122.73
33	LF	201	CYC	C1B-C2B-C3B	-3.68	104.03	107.87
37	DE	408	PL9	C40-C39-C41	3.68	121.47	115.27
33	jF	201	CYC	C4D-CHA-C1A	3.68	133.21	128.81
33	fC	201	CYC	OC-C1C-C2C	-3.68	123.25	126.17
36	bD	607	CLA	CMB-C2B-C3B	3.68	131.57	124.68
33	4L	201	CYC	C2A-C1A-NA	3.68	115.41	110.05
33	f5	201	CYC	OC-C1C-C2C	-3.68	123.25	126.17
33	NF	101	CYC	OC-C1C-C2C	-3.68	123.25	126.17
33	f2	201	CYC	OC-C1C-C2C	-3.68	123.25	126.17
33	LK	201	CYC	C1B-C2B-C3B	-3.68	104.03	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	JK	201	CYC	C1B-C2B-C3B	-3.67	104.04	107.87
33	f7	201	CYC	OC-C1C-C2C	-3.67	123.25	126.17
33	jK	201	CYC	C4D-CHA-C1A	3.67	133.20	128.81
33	gF	201	CYC	C2C-C1C-NC	3.67	111.44	108.27
33	KK	201	CYC	CHB-C4A-C3A	3.67	134.35	124.90
33	fH	201	CYC	OC-C1C-C2C	-3.67	123.25	126.17
33	HG	201	CYC	C1B-C2B-C3B	-3.67	104.04	107.87
43	C1	516	BCR	C37-C22-C23	3.67	123.86	118.08
33	JF	201	CYC	C1B-C2B-C3B	-3.67	104.04	107.87
43	B1	615	BCR	C11-C10-C9	3.67	132.55	127.31
33	4G	201	CYC	C2A-C1A-NA	3.67	115.39	110.05
36	C1	510	CLA	CHB-C4A-NA	3.67	129.58	124.51
33	JG	201	CYC	OC-C1C-C2C	-3.67	123.26	126.17
33	2L	101	CYC	OC-C1C-C2C	-3.67	123.26	126.17
43	dD	407	BCR	C16-C17-C18	-3.67	122.08	127.31
33	IF	201	CYC	OC-C1C-C2C	-3.66	123.26	126.17
33	LK	201	CYC	CHB-C4A-C3A	3.66	134.32	124.90
43	BE	615	BCR	C11-C10-C9	3.66	132.54	127.31
36	bE	604	CLA	CMB-C2B-C1B	-3.66	122.83	128.46
33	2G	101	CYC	CAB-C3B-C4B	3.66	127.16	121.38
33	TL	201	CYC	OC-C1C-C2C	-3.66	123.26	126.17
33	f8	201	CYC	OC-C1C-C2C	-3.66	123.26	126.17
33	KF	201	CYC	CHB-C4A-C3A	3.66	134.32	124.90
33	f9	201	CYC	OC-C1C-C2C	-3.66	123.26	126.17
43	BD	615	BCR	C11-C10-C9	3.66	132.53	127.31
33	uB	201	CYC	OC-C1C-C2C	-3.66	123.26	126.17
33	C4	1002	CYC	CMA-C3A-C4A	3.66	130.70	125.06
33	O4	201	CYC	CHB-C4A-NA	-3.66	117.28	124.93
33	W4	201	CYC	CMB-C2B-C1B	3.66	128.74	124.17
33	CB	1002	CYC	C4D-CHA-C1A	3.66	133.18	128.81
45	d1	402	PHO	CMA-C3A-C4A	-3.66	106.37	114.38
33	O4	201	CYC	C2C-C1C-NC	3.66	111.43	108.27
33	OB	201	CYC	CHB-C4A-NA	-3.66	117.28	124.93
43	d1	407	BCR	C16-C17-C18	-3.66	122.09	127.31
33	LK	201	CYC	CMC-C2C-C1C	-3.66	104.52	112.40
33	Z4	201	CYC	CMB-C2B-C1B	3.66	128.73	124.17
36	BE	602	CLA	CMB-C2B-C1B	-3.66	122.84	128.46
36	b1	604	CLA	CMB-C2B-C1B	-3.66	122.84	128.46
33	LF	201	CYC	CMC-C2C-C1C	-3.66	104.52	112.40
36	bD	604	CLA	CMB-C2B-C1B	-3.66	122.85	128.46
36	A1	405	CLA	CMB-C2B-C3B	3.65	131.52	124.68
33	IG	201	CYC	CHB-C1B-NB	-3.65	118.21	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	dE	402	PHO	CMA-C3A-C4A	-3.65	106.37	114.38
33	ML	201	CYC	OB-C4B-C3B	-3.65	124.08	128.04
45	dD	402	PHO	CMA-C3A-C4A	-3.65	106.38	114.38
47	ED	101	HEM	CMA-C3A-C4A	-3.65	122.85	128.46
33	MG	201	CYC	OB-C4B-C3B	-3.65	124.08	128.04
33	2G	101	CYC	OC-C1C-C2C	-3.65	123.27	126.17
36	BD	605	CLA	CMB-C2B-C3B	3.65	131.51	124.68
36	BD	602	CLA	CMB-C2B-C1B	-3.65	122.86	128.46
47	f1	101	HEM	CMA-C3A-C4A	-3.65	122.86	128.46
33	LF	201	CYC	CHB-C4A-C3A	3.65	134.28	124.90
33	u4	201	CYC	OC-C1C-C2C	-3.65	123.27	126.17
33	NK	101	CYC	OC-C1C-C2C	-3.65	123.27	126.17
33	CB	1002	CYC	CMA-C3A-C4A	3.65	130.68	125.06
33	j6	201	CYC	OC-C1C-C2C	-3.65	123.27	126.17
36	c1	506	CLA	CMB-C2B-C1B	-3.65	122.86	128.46
33	IL	201	CYC	CHB-C1B-NB	-3.64	118.23	126.06
36	B1	602	CLA	CMB-C2B-C1B	-3.64	122.86	128.46
47	fE	101	HEM	CMA-C3A-C4A	-3.64	122.86	128.46
47	EE	101	HEM	CMA-C3A-C4A	-3.64	122.86	128.46
33	2L	101	CYC	CAB-C3B-C4B	3.64	127.13	121.38
33	NG	201	CYC	C4A-C3A-C2A	-3.64	102.33	106.51
33	ZB	201	CYC	CMB-C2B-C1B	3.64	128.72	124.17
33	f3	201	CYC	OC-C1C-C2C	-3.64	123.28	126.17
39	aD	407	LMG	O7-C10-C11	3.64	119.35	111.50
33	3K	101	CYC	CHB-C4A-C3A	3.64	134.26	124.90
36	AE	405	CLA	CMB-C2B-C3B	3.64	131.49	124.68
33	B4	1003	CYC	CHB-C4A-C3A	3.64	134.26	124.90
33	BB	1003	CYC	CHB-C4A-C3A	3.64	134.26	124.90
39	aE	407	LMG	O7-C10-C11	3.64	119.34	111.50
43	dE	407	BCR	C16-C17-C18	-3.64	122.12	127.31
33	RL	201	CYC	CHD-C4C-NC	3.64	129.53	125.20
36	B1	605	CLA	CMB-C2B-C3B	3.64	131.48	124.68
33	3F	101	CYC	CHB-C4A-C3A	3.64	134.25	124.90
33	BB	1001	CYC	CHB-C4A-C3A	3.64	134.25	124.90
47	E1	101	HEM	CMA-C3A-C4A	-3.64	122.88	128.46
33	aB	201	CYC	C2B-C1B-NB	3.63	112.31	106.99
33	cF	201	CYC	C1B-CHB-C4A	3.63	136.96	128.08
36	BE	605	CLA	CMB-C2B-C3B	3.63	131.48	124.68
36	iE	101	CLA	CMB-C2B-C1B	-3.63	122.88	128.46
33	IK	201	CYC	OC-C1C-C2C	-3.63	123.28	126.17
36	cE	507	CLA	C4D-C3D-CAD	-3.63	103.81	108.10
33	OL	201	CYC	CMB-C2B-C1B	3.63	128.70	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	P4	201	CYC	C4A-C3A-C2A	-3.63	102.34	106.51
33	fF	201	CYC	CHB-C4A-C3A	3.63	134.24	124.90
33	a4	201	CYC	CMC-C2C-C1C	-3.63	104.58	112.40
36	iD	101	CLA	CMB-C2B-C1B	-3.63	122.89	128.46
33	B4	1001	CYC	CHB-C4A-C3A	3.63	134.23	124.90
33	cK	201	CYC	C1B-CHB-C4A	3.63	136.95	128.08
36	cE	509	CLA	CMB-C2B-C1B	-3.63	122.89	128.46
33	RG	201	CYC	CHD-C4C-NC	3.63	129.52	125.20
33	WB	201	CYC	CMB-C2B-C1B	3.63	128.70	124.17
33	a4	201	CYC	C2B-C1B-NB	3.63	112.30	106.99
36	AE	405	CLA	CHB-C4A-NA	3.63	129.53	124.51
33	bB	101	CYC	C2C-C3C-C4C	-3.63	95.91	101.34
36	cD	507	CLA	C4D-C3D-CAD	-3.63	103.82	108.10
33	ZF	201	CYC	CHD-C4C-NC	-3.62	120.89	125.20
33	OG	201	CYC	CMB-C2B-C1B	3.62	128.69	124.17
33	fI	201	CYC	OC-C1C-C2C	-3.62	123.29	126.17
36	AD	405	CLA	CMB-C2B-C3B	3.62	131.46	124.68
36	cD	509	CLA	CMB-C2B-C1B	-3.62	122.90	128.46
33	ZK	201	CYC	CHD-C4C-NC	-3.62	120.90	125.20
33	fK	201	CYC	CHB-C4A-C3A	3.62	134.22	124.90
36	cI	507	CLA	C4D-C3D-CAD	-3.62	103.83	108.10
36	cI	509	CLA	CMB-C2B-C1B	-3.62	122.90	128.46
43	bE	618	BCR	C28-C27-C26	-3.62	107.61	114.08
43	CE	516	BCR	C33-C5-C6	-3.62	120.46	124.53
33	Z4	201	CYC	CHB-C1B-NB	-3.62	118.28	126.06
33	j2	201	CYC	OC-C1C-C2C	-3.62	123.30	126.17
39	a1	408	LMG	O7-C10-C11	3.62	119.30	111.50
33	O4	201	CYC	OC-C1C-C2C	-3.62	123.30	126.17
47	fD	101	HEM	CMA-C3A-C4A	-3.62	122.90	128.46
33	PB	201	CYC	C4A-C3A-C2A	-3.62	102.35	106.51
33	LL	201	CYC	C1A-C2A-C3A	-3.62	102.78	106.78
33	eK	201	CYC	OC-C1C-C2C	-3.62	123.30	126.17
33	b4	101	CYC	C2C-C3C-C4C	-3.62	95.92	101.34
33	jJ	201	CYC	OC-C1C-C2C	-3.62	123.30	126.17
33	IK	201	CYC	CHA-C1A-NA	-3.62	123.81	128.83
43	D1	406	BCR	C16-C17-C18	-3.61	122.15	127.31
33	hF	201	CYC	CHB-C1B-C2B	3.61	134.11	126.95
33	ZB	201	CYC	CHB-C1B-NB	-3.61	118.30	126.06
33	aB	201	CYC	CMC-C2C-C1C	-3.61	104.62	112.40
33	X4	201	CYC	C1B-C2B-C3B	-3.61	104.10	107.87
33	j3	201	CYC	OC-C1C-C2C	-3.61	123.30	126.17
43	C1	516	BCR	C33-C5-C6	-3.61	120.47	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	AD	405	CLA	CHB-C4A-NA	3.61	129.50	124.51
43	cD	515	BCR	C23-C22-C21	-3.61	113.41	118.94
33	NL	201	CYC	C4A-C3A-C2A	-3.61	102.37	106.51
43	cE	515	BCR	C23-C22-C21	-3.61	113.41	118.94
33	hK	201	CYC	CHB-C1B-C2B	3.60	134.09	126.95
43	DD	407	BCR	C16-C17-C18	-3.60	122.17	127.31
33	jA	201	CYC	OC-C1C-C2C	-3.60	123.31	126.17
33	LG	201	CYC	C1A-C2A-C3A	-3.60	102.80	106.78
33	BB	1003	CYC	OC-C1C-C2C	-3.60	123.31	126.17
43	bD	618	BCR	C28-C27-C26	-3.60	107.65	114.08
44	cE	518	DGD	O5D-C1E-C2E	3.60	113.92	108.30
43	BE	617	BCR	C28-C27-C26	-3.60	107.65	114.08
33	YK	201	CYC	CHB-C1B-C2B	3.60	134.08	126.95
44	cD	518	DGD	O5D-C1E-C2E	3.60	113.92	108.30
43	c1	515	BCR	C23-C22-C21	-3.60	113.42	118.94
33	YF	201	CYC	CHB-C1B-C2B	3.60	134.08	126.95
33	IF	201	CYC	CHA-C1A-NA	-3.60	123.84	128.83
43	z1	101	BCR	C28-C27-C26	-3.60	107.65	114.08
43	CD	516	BCR	C33-C5-C6	-3.60	120.49	124.53
33	o4	201	CYC	CHB-C4A-NA	-3.60	117.41	124.93
36	A1	405	CLA	CHB-C4A-NA	3.60	129.48	124.51
45	a1	413	PHO	CMA-C3A-C4A	-3.60	106.50	114.38
43	b1	618	BCR	C28-C27-C26	-3.59	107.66	114.08
36	c1	510	CLA	CHB-C4A-NA	3.59	129.48	124.51
43	BD	617	BCR	C28-C27-C26	-3.59	107.66	114.08
33	j8	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17
33	l8	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17
33	KF	201	CYC	CHA-C1A-NA	-3.59	123.85	128.83
33	JL	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17
33	j7	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17
33	q4	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17
33	j9	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17
33	jH	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17
33	jI	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17
43	ZE	101	BCR	C28-C27-C26	-3.58	107.68	114.08
33	B4	1003	CYC	OC-C1C-C2C	-3.58	123.32	126.17
33	ZK	201	CYC	CHA-C1A-NA	-3.58	123.86	128.83
33	9K	201	CYC	C2C-C1C-NC	3.58	111.36	108.27
43	B1	617	BCR	C28-C27-C26	-3.58	107.68	114.08
33	5L	201	CYC	C1A-C2A-C3A	-3.58	102.82	106.78
33	z4	201	CYC	C1A-C2A-C3A	-3.58	102.82	106.78
36	bE	615	CLA	CMB-C2B-C3B	3.58	131.38	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	C1	505	CLA	CAA-C2A-C3A	-3.58	102.97	112.78
33	oB	201	CYC	CHB-C4A-NA	-3.58	117.45	124.93
36	eE	510	CLA	CHB-C4A-NA	3.58	129.46	124.51
33	XB	201	CYC	C1B-C2B-C3B	-3.58	104.14	107.87
33	KK	201	CYC	CHA-C1A-NA	-3.58	123.87	128.83
43	zD	101	BCR	C28-C27-C26	-3.58	107.69	114.08
36	CD	505	CLA	CAA-C2A-C3A	-3.57	102.99	112.78
44	c1	518	DGD	O5D-C1E-C2E	3.57	113.88	108.30
43	zE	101	BCR	C28-C27-C26	-3.57	107.70	114.08
36	cD	510	CLA	CHB-C4A-NA	3.57	129.45	124.51
33	l5	201	CYC	OC-C1C-C2C	-3.57	123.33	126.17
33	dK	201	CYC	CHB-C1B-C2B	3.57	134.02	126.95
45	D1	402	PHO	CBA-CAA-C2A	3.57	124.24	113.81
33	5L	201	CYC	CMB-C2B-C1B	3.57	128.62	124.17
43	Z1	101	BCR	C28-C27-C26	-3.57	107.70	114.08
43	DE	407	BCR	C16-C17-C18	-3.57	122.22	127.31
43	ZD	101	BCR	C28-C27-C26	-3.57	107.70	114.08
33	nK	201	CYC	C2C-C3C-C4C	-3.57	95.99	101.34
36	CE	505	CLA	CAA-C2A-C3A	-3.57	103.01	112.78
43	Z1	101	BCR	C36-C18-C19	3.57	123.70	118.08
36	b1	615	CLA	CMB-C2B-C3B	3.57	131.35	124.68
43	I1	102	BCR	C1-C6-C5	-3.56	117.59	122.61
36	bD	615	CLA	CMB-C2B-C3B	3.56	131.34	124.68
33	TB	201	CYC	C4A-C3A-C2A	-3.56	102.42	106.51
33	NF	101	CYC	C1B-C2B-C3B	-3.56	104.15	107.87
33	9F	201	CYC	C2C-C1C-NC	3.56	111.34	108.27
33	qB	201	CYC	OC-C1C-C2C	-3.56	123.34	126.17
45	aE	412	PHO	CMA-C3A-C4A	-3.56	106.58	114.38
33	dF	201	CYC	CHB-C1B-C2B	3.56	134.00	126.95
43	iE	102	BCR	C7-C8-C9	-3.56	120.86	126.23
33	c7	201	CYC	C4A-C3A-C2A	-3.56	102.42	106.51
33	ZF	201	CYC	CHA-C1A-NA	-3.56	123.89	128.83
36	BE	614	CLA	CMB-C2B-C3B	3.56	131.34	124.68
43	iD	102	BCR	C7-C8-C9	-3.56	120.86	126.23
33	gK	201	CYC	CMB-C2B-C1B	3.56	128.61	124.17
33	j5	201	CYC	OC-C1C-C2C	-3.56	123.34	126.17
33	l3	201	CYC	OC-C1C-C2C	-3.56	123.34	126.17
33	jC	201	CYC	OC-C1C-C2C	-3.56	123.34	126.17
33	nF	201	CYC	C2C-C3C-C4C	-3.56	96.01	101.34
33	zB	201	CYC	C1A-C2A-C3A	-3.56	102.85	106.78
33	5G	201	CYC	C1A-C2A-C3A	-3.55	102.85	106.78
33	QG	201	CYC	C2C-C1C-NC	3.55	111.34	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	ID	102	BCR	C1-C6-C5	-3.55	117.61	122.61
33	ZK	201	CYC	CMC-C2C-C1C	-3.55	104.74	112.40
33	NK	101	CYC	C1B-C2B-C3B	-3.55	104.16	107.87
33	gF	201	CYC	CMB-C2B-C1B	3.55	128.60	124.17
33	C4	1002	CYC	CHB-C1B-NB	-3.55	118.43	126.06
33	W4	201	CYC	C2C-C3C-C4C	-3.55	96.02	101.34
33	CB	1002	CYC	CHB-C1B-NB	-3.55	118.43	126.06
43	i1	101	BCR	C7-C8-C9	-3.55	120.87	126.23
33	T4	201	CYC	C4A-C3A-C2A	-3.55	102.43	106.51
33	eF	201	CYC	OC-C1C-C2C	-3.55	123.35	126.17
43	cE	519	BCR	C16-C17-C18	-3.55	122.24	127.31
33	d8	201	CYC	OC-C1C-C2C	-3.55	123.35	126.17
43	ZE	101	BCR	C36-C18-C19	3.55	123.67	118.08
33	d9	201	CYC	OC-C1C-C2C	-3.55	123.35	126.17
33	zB	201	CYC	CAA-C2A-C1A	-3.55	118.73	125.01
45	DD	401	PHO	CMA-C3A-C4A	-3.55	106.61	114.38
45	aD	412	PHO	CMB-C2B-C3B	3.55	131.31	124.68
33	5G	201	CYC	CMB-C2B-C1B	3.54	128.59	124.17
33	JG	201	CYC	C1B-C2B-C3B	-3.54	104.17	107.87
36	C1	510	CLA	O2D-CGD-O1D	-3.54	116.91	123.84
33	b4	101	CYC	C1A-C2A-C3A	-3.54	102.86	106.78
36	BD	614	CLA	CMB-C2B-C3B	3.54	131.31	124.68
33	cC	201	CYC	C4A-C3A-C2A	-3.54	102.44	106.51
33	KF	201	CYC	C1B-NB-C4B	-3.54	106.16	110.67
36	CE	510	CLA	O2D-CGD-O1D	-3.54	116.91	123.84
33	dA	201	CYC	OC-C1C-C2C	-3.54	123.36	126.17
33	c2	201	CYC	C4A-C3A-C2A	-3.54	102.44	106.51
43	IE	102	BCR	C1-C6-C5	-3.54	117.63	122.61
36	B1	614	CLA	CMB-C2B-C3B	3.54	131.30	124.68
33	ZF	201	CYC	CMC-C2C-C1C	-3.54	104.78	112.40
36	CD	510	CLA	O2D-CGD-O1D	-3.54	116.92	123.84
33	Z4	201	CYC	C4A-C3A-C2A	-3.54	102.45	106.51
43	iD	102	BCR	C16-C17-C18	-3.54	122.26	127.31
33	ZB	201	CYC	C4A-C3A-C2A	-3.54	102.45	106.51
33	lJ	201	CYC	OC-C1C-C2C	-3.54	123.36	126.17
33	c6	201	CYC	C4A-C3A-C2A	-3.54	102.45	106.51
43	ZD	101	BCR	C36-C18-C19	3.53	123.65	118.08
43	z1	101	BCR	C36-C18-C19	3.53	123.65	118.08
43	i1	101	BCR	C16-C17-C18	-3.53	122.27	127.31
33	B9	301	CYC	C4A-C3A-C2A	-3.53	102.45	106.51
33	d7	201	CYC	OC-C1C-C2C	-3.53	123.36	126.17
45	DE	401	PHO	CMB-C2B-C3B	3.53	131.29	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	WB	201	CYC	C2C-C3C-C4C	-3.53	96.05	101.34
36	bD	612	CLA	CBA-CAA-C2A	3.53	124.29	113.86
36	b1	612	CLA	CBA-CAA-C2A	3.53	124.29	113.86
36	BE	611	CLA	CBA-CAA-C2A	3.53	124.29	113.86
36	bE	612	CLA	CBA-CAA-C2A	3.53	124.29	113.86
36	BD	611	CLA	CBA-CAA-C2A	3.53	124.28	113.86
45	DE	403	PHO	CBA-CAA-C2A	3.53	124.13	113.81
33	KK	201	CYC	C1B-NB-C4B	-3.53	106.17	110.67
33	QG	201	CYC	CMB-C2B-C1B	3.53	128.57	124.17
36	CD	511	CLA	CMB-C2B-C1B	-3.53	123.04	128.46
43	XE	102	BCR	C4-C5-C6	-3.53	117.61	122.73
33	dC	201	CYC	OC-C1C-C2C	-3.53	123.37	126.17
33	dH	201	CYC	OC-C1C-C2C	-3.53	123.37	126.17
44	cE	517	DGD	O2G-C1B-C2B	3.53	119.11	111.50
33	JL	201	CYC	C1B-C2B-C3B	-3.53	104.19	107.87
36	CE	511	CLA	CMB-C2B-C1B	-3.53	123.04	128.46
43	c1	515	BCR	C38-C26-C25	-3.53	120.57	124.53
47	V1	201	HEM	CHA-C4D-ND	3.53	128.74	124.38
33	HG	201	CYC	C1A-NA-C4A	-3.53	99.87	106.51
44	CE	517	DGD	O6D-C5D-C6D	3.53	113.78	106.67
44	c1	517	DGD	O2G-C1B-C2B	3.53	119.10	111.50
45	DD	403	PHO	C1A-C2A-C3A	-3.52	99.48	102.84
36	cE	512	CLA	CHB-C4A-NA	3.52	129.39	124.51
33	BI	301	CYC	C4A-C3A-C2A	-3.52	102.46	106.51
33	z4	201	CYC	CAA-C2A-C1A	-3.52	118.77	125.01
33	PB	201	CYC	CBC-CAC-C3C	3.52	121.31	113.47
33	bJ	201	CYC	OC-C1C-C2C	-3.52	123.37	126.17
33	AL	201	CYC	CHB-C1B-NB	-3.52	118.50	126.06
36	B1	611	CLA	CBA-CAA-C2A	3.52	124.26	113.86
43	iE	102	BCR	C16-C17-C18	-3.52	122.28	127.31
33	d2	201	CYC	OC-C1C-C2C	-3.52	123.37	126.17
33	B7	301	CYC	C4A-C3A-C2A	-3.52	102.47	106.51
33	P4	201	CYC	CBC-CAC-C3C	3.52	121.31	113.47
33	HL	201	CYC	C1A-NA-C4A	-3.52	99.88	106.51
43	hE	105	BCR	C4-C5-C6	-3.52	117.62	122.73
33	cI	201	CYC	C4A-C3A-C2A	-3.52	102.47	106.51
33	lH	201	CYC	OC-C1C-C2C	-3.52	123.38	126.17
33	c8	201	CYC	C4A-C3A-C2A	-3.52	102.47	106.51
43	c1	519	BCR	C16-C17-C18	-3.52	122.29	127.31
33	BB	1003	CYC	CAA-C2A-C3A	3.52	134.43	127.88
33	k5	201	CYC	C4A-C3A-C2A	-3.52	102.47	106.51
33	AG	201	CYC	CHB-C1B-NB	-3.52	118.51	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	HG	201	CYC	C4A-C3A-C2A	-3.52	102.47	106.51
33	bI	201	CYC	OC-C1C-C2C	-3.52	123.38	126.17
33	GL	201	CYC	C2A-C1A-NA	3.52	115.16	110.05
33	QL	201	CYC	C2C-C1C-NC	3.52	111.30	108.27
45	A1	412	PHO	CMB-C2B-C3B	3.52	131.25	124.68
33	Z4	201	CYC	C2C-C1C-NC	3.51	111.30	108.27
47	VD	201	HEM	CHA-C4D-ND	3.51	128.72	124.38
43	zD	101	BCR	C36-C18-C19	3.51	123.61	118.08
33	cA	201	CYC	C4A-C3A-C2A	-3.51	102.47	106.51
33	cH	201	CYC	C4A-C3A-C2A	-3.51	102.47	106.51
33	JK	201	CYC	CAC-C3C-C2C	-3.51	105.48	114.26
33	GG	201	CYC	C2A-C1A-NA	3.51	115.16	110.05
33	l6	201	CYC	OC-C1C-C2C	-3.51	123.38	126.17
33	II	201	CYC	OC-C1C-C2C	-3.51	123.38	126.17
33	c5	201	CYC	C4A-C3A-C2A	-3.51	102.47	106.51
33	g5	202	CYC	C4A-C3A-C2A	-3.51	102.47	106.51
33	gH	202	CYC	C4A-C3A-C2A	-3.51	102.47	106.51
33	bB	101	CYC	C1A-C2A-C3A	-3.51	102.90	106.78
33	B2	301	CYC	C4A-C3A-C2A	-3.51	102.48	106.51
43	hD	105	BCR	C4-C5-C6	-3.51	117.63	122.73
33	fK	201	CYC	CMB-C2B-C1B	3.51	128.55	124.17
36	CD	507	CLA	CMB-C2B-C1B	-3.51	123.07	128.46
36	C1	511	CLA	CMB-C2B-C1B	-3.51	123.07	128.46
43	cD	519	BCR	C16-C17-C18	-3.51	122.30	127.31
33	b2	201	CYC	OC-C1C-C2C	-3.51	123.38	126.17
33	BA	301	CYC	C4A-C3A-C2A	-3.51	102.48	106.51
36	C1	507	CLA	CMB-C2B-C1B	-3.51	123.07	128.46
33	dJ	201	CYC	OC-C1C-C2C	-3.51	123.38	126.17
33	g8	202	CYC	C4A-C3A-C2A	-3.51	102.48	106.51
43	zE	101	BCR	C36-C18-C19	3.51	123.61	118.08
43	cD	515	BCR	C38-C26-C25	-3.51	120.59	124.53
33	B4	1003	CYC	CAA-C2A-C3A	3.51	134.41	127.88
44	cD	517	DGD	O2G-C1B-C2B	3.51	119.06	111.50
33	b9	201	CYC	OC-C1C-C2C	-3.51	123.39	126.17
36	h1	102	CLA	CMB-C2B-C1B	-3.51	123.08	128.46
33	5L	201	CYC	C4D-CHA-C1A	3.51	133.00	128.81
33	dI	201	CYC	OC-C1C-C2C	-3.51	123.39	126.17
33	JF	201	CYC	CAC-C3C-C2C	-3.50	105.50	114.26
42	DD	410	LHG	O7-C7-C8	3.50	119.05	111.50
33	HL	201	CYC	C4A-C3A-C2A	-3.50	102.49	106.51
33	ZB	201	CYC	C2C-C1C-NC	3.50	111.29	108.27
33	d6	201	CYC	OC-C1C-C2C	-3.50	123.39	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	c3	201	CYC	C4A-C3A-C2A	-3.50	102.49	106.51
33	B3	301	CYC	C4A-C3A-C2A	-3.50	102.49	106.51
44	CD	517	DGD	O6D-C5D-C6D	3.50	113.73	106.67
33	1L	201	CYC	C2B-C1B-NB	3.50	112.11	106.99
33	kC	201	CYC	C4A-C3A-C2A	-3.50	102.49	106.51
33	a4	201	CYC	CBD-CAD-C3D	-3.50	106.65	112.62
33	d5	201	CYC	OC-C1C-C2C	-3.50	123.39	126.17
33	lC	201	CYC	OC-C1C-C2C	-3.50	123.39	126.17
33	NL	201	CYC	CHB-C4A-C3A	3.50	133.90	124.90
33	X4	201	CYC	CBA-CAA-C2A	-3.50	102.91	112.63
33	cK	201	CYC	CHB-C1B-C2B	-3.50	120.02	126.95
33	b7	201	CYC	OC-C1C-C2C	-3.50	123.39	126.17
42	D1	409	LHG	O7-C7-C8	3.50	119.04	111.50
44	C1	517	DGD	O6D-C5D-C6D	3.50	113.72	106.67
33	B4	1004	CYC	OC-C1C-C2C	-3.50	123.39	126.17
33	c9	201	CYC	C4A-C3A-C2A	-3.50	102.49	106.51
43	BD	616	BCR	C20-C21-C22	-3.50	122.32	127.31
42	DE	410	LHG	O7-C7-C8	3.50	119.03	111.50
33	u4	201	CYC	CHB-C4A-NA	-3.49	117.62	124.93
36	hD	102	CLA	CMB-C2B-C1B	-3.49	123.09	128.46
42	d1	410	LHG	O7-C7-C8	3.49	119.03	111.50
33	ff	201	CYC	CMB-C2B-C1B	3.49	128.53	124.17
33	e7	201	CYC	C4A-C3A-C2A	-3.49	102.50	106.51
36	cD	512	CLA	CHB-C4A-NA	3.49	129.34	124.51
43	h1	105	BCR	C4-C5-C6	-3.49	117.66	122.73
36	c1	512	CLA	CHB-C4A-NA	3.49	129.34	124.51
33	l7	201	CYC	OC-C1C-C2C	-3.49	123.40	126.17
36	bE	604	CLA	CMB-C2B-C3B	3.49	131.21	124.68
43	XD	102	BCR	C4-C5-C6	-3.49	117.66	122.73
33	e8	201	CYC	C4A-C3A-C2A	-3.49	102.50	106.51
33	QL	201	CYC	CMB-C2B-C1B	3.49	128.53	124.17
33	b8	201	CYC	OC-C1C-C2C	-3.49	123.40	126.17
33	uB	201	CYC	CHB-C4A-NA	-3.49	117.63	124.93
33	i8	202	CYC	C4A-C3A-C2A	-3.49	102.50	106.51
33	aK	201	CYC	CAB-C3B-C4B	3.49	126.89	121.38
33	aB	201	CYC	CBD-CAD-C3D	-3.49	106.67	112.62
33	TB	201	CYC	C2A-C1A-NA	3.49	115.12	110.05
33	eI	201	CYC	C4A-C3A-C2A	-3.49	102.50	106.51
33	bC	201	CYC	OC-C1C-C2C	-3.49	123.40	126.17
33	hC	201	CYC	OC-C1C-C2C	-3.49	123.40	126.17
33	NF	101	CYC	CMB-C2B-C1B	3.49	128.52	124.17
33	h6	201	CYC	OC-C1C-C2C	-3.49	123.40	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	e9	201	CYC	C4A-C3A-C2A	-3.49	102.50	106.51
33	BB	1004	CYC	OC-C1C-C2C	-3.49	123.40	126.17
33	gJ	202	CYC	C4A-C3A-C2A	-3.49	102.50	106.51
33	cJ	201	CYC	C4A-C3A-C2A	-3.49	102.51	106.51
33	h8	201	CYC	OC-C1C-C2C	-3.49	123.40	126.17
33	hH	201	CYC	OC-C1C-C2C	-3.49	123.40	126.17
33	hJ	201	CYC	OC-C1C-C2C	-3.49	123.40	126.17
33	XB	201	CYC	CBA-CAA-C2A	-3.48	102.94	112.63
33	NG	201	CYC	CHB-C4A-C3A	3.48	133.86	124.90
43	BE	616	BCR	C20-C21-C22	-3.48	122.34	127.31
33	cF	201	CYC	CHB-C1B-C2B	-3.48	120.05	126.95
42	dD	410	LHG	O7-C7-C8	3.48	119.01	111.50
36	CE	507	CLA	CMB-C2B-C1B	-3.48	123.11	128.46
33	l2	201	CYC	OC-C1C-C2C	-3.48	123.40	126.17
42	dE	410	LHG	O7-C7-C8	3.48	119.01	111.50
33	qB	201	CYC	CHA-C1A-NA	-3.48	124.00	128.83
36	hE	102	CLA	CMB-C2B-C1B	-3.48	123.11	128.46
33	BC	301	CYC	C4A-C3A-C2A	-3.48	102.51	106.51
33	bH	201	CYC	OC-C1C-C2C	-3.48	123.41	126.17
43	X1	102	BCR	C4-C5-C6	-3.48	117.68	122.73
33	k6	201	CYC	C4A-C3A-C2A	-3.48	102.51	106.51
36	cE	510	CLA	C2D-C1D-ND	-3.48	107.54	110.10
33	5L	201	CYC	CHA-C1A-NA	-3.48	124.00	128.83
33	k3	201	CYC	C4A-C3A-C2A	-3.48	102.52	106.51
33	iA	202	CYC	C4A-C3A-C2A	-3.48	102.52	106.51
47	fE	101	HEM	CHA-C4D-ND	3.48	128.68	124.38
33	q4	201	CYC	CHA-C1A-NA	-3.48	124.00	128.83
33	1G	201	CYC	C2B-C1B-NB	3.48	112.08	106.99
47	VE	201	HEM	CHA-C4D-ND	3.48	128.68	124.38
33	l9	201	CYC	OC-C1C-C2C	-3.47	123.41	126.17
33	h7	201	CYC	OC-C1C-C2C	-3.47	123.41	126.17
36	BD	611	CLA	CHB-C4A-NA	3.47	129.31	124.51
33	kI	201	CYC	C4A-C3A-C2A	-3.47	102.52	106.51
33	6L	201	CYC	C4A-C3A-C2A	-3.47	102.52	106.51
33	aF	201	CYC	CAB-C3B-C4B	3.47	126.86	121.38
36	cD	510	CLA	C2D-C1D-ND	-3.47	107.55	110.10
33	6G	201	CYC	C4A-C3A-C2A	-3.47	102.52	106.51
43	cE	515	BCR	C38-C26-C25	-3.47	120.63	124.53
33	e5	201	CYC	C4A-C3A-C2A	-3.47	102.52	106.51
33	kJ	201	CYC	C4A-C3A-C2A	-3.47	102.52	106.51
33	kA	201	CYC	C4A-C3A-C2A	-3.47	102.52	106.51
33	b5	201	CYC	OC-C1C-C2C	-3.47	123.41	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	bD	604	CLA	CMB-C2B-C3B	3.47	131.17	124.68
33	TG	201	CYC	C2A-C1A-NA	3.47	115.09	110.05
33	9F	201	CYC	C2A-C1A-NA	3.47	115.09	110.05
36	HE	102	CLA	CMB-C2B-C1B	-3.47	123.13	128.46
36	c1	510	CLA	C2D-C1D-ND	-3.47	107.55	110.10
33	B4	1002	CYC	CHA-C1A-NA	-3.47	124.02	128.83
33	e3	201	CYC	C4A-C3A-C2A	-3.47	102.53	106.51
33	B6	301	CYC	C4A-C3A-C2A	-3.47	102.53	106.51
33	k9	201	CYC	C4A-C3A-C2A	-3.47	102.53	106.51
36	BE	611	CLA	CHB-C4A-NA	3.47	129.31	124.51
47	fD	101	HEM	CHA-C4D-ND	3.47	128.66	124.38
33	kH	201	CYC	C4A-C3A-C2A	-3.47	102.53	106.51
36	C1	503	CLA	CMB-C2B-C1B	-3.47	123.14	128.46
33	NK	101	CYC	CMB-C2B-C1B	3.46	128.49	124.17
43	B1	616	BCR	C20-C21-C22	-3.46	122.37	127.31
33	5G	201	CYC	C4D-CHA-C1A	3.46	132.95	128.81
33	d3	201	CYC	OC-C1C-C2C	-3.46	123.42	126.17
33	e6	201	CYC	C4A-C3A-C2A	-3.46	102.53	106.51
33	iC	202	CYC	C4A-C3A-C2A	-3.46	102.53	106.51
33	eA	201	CYC	C4A-C3A-C2A	-3.46	102.53	106.51
40	BD	623	LMT	C4'-C3'-C2'	3.46	116.87	110.82
33	C4	1003	CYC	CHA-C1A-NA	-3.46	124.02	128.83
33	h3	201	CYC	OC-C1C-C2C	-3.46	123.42	126.17
33	9K	201	CYC	C2A-C1A-NA	3.46	115.08	110.05
36	b1	604	CLA	CMB-C2B-C3B	3.46	131.15	124.68
33	iH	202	CYC	C4A-C3A-C2A	-3.46	102.53	106.51
33	iI	202	CYC	C4A-C3A-C2A	-3.46	102.53	106.51
33	SB	201	CYC	C1B-C2B-C3B	-3.46	104.26	107.87
47	fI	101	HEM	CHA-C4D-ND	3.46	128.66	124.38
40	BE	623	LMT	C4'-C3'-C2'	3.46	116.86	110.82
33	lA	201	CYC	OC-C1C-C2C	-3.46	123.42	126.17
33	eC	201	CYC	C4A-C3A-C2A	-3.46	102.54	106.51
36	XD	101	CLA	CMB-C2B-C1B	-3.46	123.15	128.46
36	X1	101	CLA	CMB-C2B-C1B	-3.46	123.15	128.46
33	TL	201	CYC	C2A-C1A-NA	3.46	115.08	110.05
33	T4	201	CYC	C2A-C1A-NA	3.46	115.08	110.05
38	hE	103	SQD	C46-C45-C44	3.46	119.96	111.79
33	eH	201	CYC	C4A-C3A-C2A	-3.46	102.54	106.51
33	OL	201	CYC	C1A-C2A-C3A	-3.46	102.96	106.78
33	bA	201	CYC	OC-C1C-C2C	-3.46	123.42	126.17
44	JD	101	DGD	O2G-C1B-C2B	3.46	118.95	111.50
33	b3	201	CYC	OC-C1C-C2C	-3.45	123.43	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	CD	503	CLA	CMB-C2B-C1B	-3.45	123.16	128.46
47	vE	201	HEM	CHA-C4D-ND	3.45	128.65	124.38
36	XE	101	CLA	CMB-C2B-C1B	-3.45	123.16	128.46
38	h1	103	SQD	O48-C23-C24	3.45	122.75	111.91
33	RB	201	CYC	CHA-C1A-NA	-3.45	124.04	128.83
33	i9	202	CYC	C4A-C3A-C2A	-3.45	102.54	106.51
40	B1	623	LMT	C4'-C3'-C2'	3.45	116.85	110.82
47	vD	201	HEM	CHA-C4D-ND	3.45	128.64	124.38
36	B1	611	CLA	CHB-C4A-NA	3.45	129.28	124.51
38	h1	103	SQD	C46-C45-C44	3.45	119.95	111.79
38	hD	103	SQD	O48-C23-C24	3.45	122.73	111.91
33	i3	202	CYC	C4A-C3A-C2A	-3.45	102.55	106.51
36	C1	511	CLA	C2D-C1D-ND	-3.45	107.56	110.10
33	KK	201	CYC	CHD-C4C-NC	3.45	129.30	125.20
33	i2	202	CYC	C4A-C3A-C2A	-3.45	102.55	106.51
33	k7	201	CYC	C4A-C3A-C2A	-3.45	102.55	106.51
43	bD	617	BCR	C20-C21-C22	-3.45	122.39	127.31
33	BB	1002	CYC	CHA-C1A-NA	-3.45	124.05	128.83
38	hD	103	SQD	C46-C45-C44	3.44	119.94	111.79
36	bD	612	CLA	CHB-C4A-NA	3.44	129.27	124.51
33	h9	201	CYC	OC-C1C-C2C	-3.44	123.44	126.17
45	DD	403	PHO	C6-C7-C8	3.44	127.05	115.92
44	JE	101	DGD	O2G-C1B-C2B	3.44	118.92	111.50
33	bK	201	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
33	hI	201	CYC	OC-C1C-C2C	-3.44	123.44	126.17
33	CB	1003	CYC	CHA-C1A-NA	-3.44	124.05	128.83
33	i5	202	CYC	C4A-C3A-C2A	-3.44	102.56	106.51
36	bE	612	CLA	CHB-C4A-NA	3.44	129.27	124.51
38	hE	103	SQD	O48-C23-C24	3.44	122.70	111.91
47	ED	101	HEM	CHA-C4D-ND	3.44	128.63	124.38
36	HD	102	CLA	CMB-C2B-C1B	-3.44	123.18	128.46
33	5L	201	CYC	CMC-C2C-C1C	-3.44	104.99	112.40
33	k8	201	CYC	C4A-C3A-C2A	-3.44	102.56	106.51
33	ZF	201	CYC	C1B-C2B-C3B	-3.44	104.28	107.87
33	5G	201	CYC	CHA-C1A-NA	-3.44	124.06	128.83
33	e2	201	CYC	C4A-C3A-C2A	-3.44	102.56	106.51
33	BB	1004	CYC	CMB-C2B-C1B	3.44	128.46	124.17
44	J1	101	DGD	O2G-C1B-C2B	3.44	118.91	111.50
43	bE	617	BCR	C20-C21-C22	-3.44	122.41	127.31
36	CE	503	CLA	CMB-C2B-C1B	-3.44	123.18	128.46
33	KK	201	CYC	C1B-C2B-C3B	-3.43	104.29	107.87
47	EE	101	HEM	CHA-C4D-ND	3.43	128.62	124.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	KF	201	CYC	CHD-C4C-NC	3.43	129.29	125.20
33	k2	201	CYC	C4A-C3A-C2A	-3.43	102.56	106.51
33	i6	202	CYC	C4A-C3A-C2A	-3.43	102.57	106.51
43	zE	101	BCR	C38-C26-C25	-3.43	120.67	124.53
33	S4	201	CYC	C1B-C2B-C3B	-3.43	104.29	107.87
33	PG	201	CYC	CMB-C2B-C1B	3.43	128.45	124.17
33	5G	201	CYC	CMC-C2C-C1C	-3.43	105.01	112.40
43	b1	617	BCR	C20-C21-C22	-3.43	122.41	127.31
33	hA	201	CYC	OC-C1C-C2C	-3.43	123.45	126.17
33	ZK	201	CYC	CMB-C2B-C1B	3.43	128.45	124.17
33	KF	201	CYC	C1B-C2B-C3B	-3.43	104.29	107.87
33	ZF	201	CYC	CMB-C2B-C1B	3.43	128.45	124.17
43	CE	516	BCR	C38-C26-C27	3.43	120.20	113.62
36	CD	511	CLA	C2D-C1D-ND	-3.43	107.58	110.10
33	R4	201	CYC	CHA-C1A-NA	-3.43	124.07	128.83
33	iJ	202	CYC	C4A-C3A-C2A	-3.43	102.57	106.51
47	v1	201	HEM	CHA-C4D-ND	3.43	128.61	124.38
36	b1	612	CLA	CHB-C4A-NA	3.43	129.25	124.51
33	OG	201	CYC	C1A-C2A-C3A	-3.42	102.99	106.78
33	i6	202	CYC	C1A-C2A-C3A	-3.42	102.99	106.78
33	h2	201	CYC	OC-C1C-C2C	-3.42	123.45	126.17
33	PL	201	CYC	CMB-C2B-C1B	3.42	128.44	124.17
47	E1	101	HEM	CHA-C4D-ND	3.42	128.61	124.38
33	b6	201	CYC	OC-C1C-C2C	-3.42	123.45	126.17
33	LG	201	CYC	CAA-CBA-CGA	-3.42	106.24	113.60
33	B4	1003	CYC	CAA-CBA-CGA	-3.42	106.24	113.60
33	LL	201	CYC	CAA-CBA-CGA	-3.42	106.24	113.60
33	HG	201	CYC	CMB-C2B-C1B	3.42	128.44	124.17
33	HL	201	CYC	CMB-C2B-C1B	3.42	128.44	124.17
33	cK	201	CYC	CMB-C2B-C1B	3.42	128.44	124.17
33	i3	202	CYC	C1A-C2A-C3A	-3.42	103.00	106.78
33	PL	201	CYC	C1B-C2B-C3B	-3.42	104.31	107.87
43	CD	516	BCR	C38-C26-C27	3.42	120.18	113.62
36	H1	102	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
43	cE	519	BCR	C16-C15-C14	-3.42	116.48	123.47
36	xD	101	CLA	CMB-C2B-C1B	-3.41	123.22	128.46
33	ZK	201	CYC	C1B-C2B-C3B	-3.41	104.31	107.87
33	MG	201	CYC	C1A-C2A-C3A	-3.41	103.00	106.78
33	PG	201	CYC	C1B-C2B-C3B	-3.41	104.31	107.87
43	z1	101	BCR	C38-C26-C25	-3.41	120.69	124.53
44	cD	516	DGD	O1G-C1A-C2A	3.41	122.62	111.91
43	ZE	101	BCR	C15-C14-C13	-3.41	122.44	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BD	602	CLA	CMB-C2B-C3B	3.41	131.06	124.68
33	GG	201	CYC	C1B-C2B-C3B	-3.41	104.31	107.87
36	aD	405	CLA	CMB-C2B-C3B	3.41	131.06	124.68
33	uB	201	CYC	C4A-C3A-C2A	-3.41	102.59	106.51
33	i7	202	CYC	C1A-C2A-C3A	-3.41	103.01	106.78
36	BE	602	CLA	CMB-C2B-C3B	3.41	131.06	124.68
36	BD	601	CLA	CMB-C2B-C1B	-3.41	123.22	128.46
44	c1	516	DGD	O1G-C1A-C2A	3.41	122.60	111.91
33	5G	201	CYC	CHD-C4C-NC	3.41	129.26	125.20
43	c1	519	BCR	C16-C15-C14	-3.41	116.49	123.47
33	WG	201	CYC	C2B-C1B-NB	3.41	111.98	106.99
36	aE	405	CLA	CMB-C2B-C3B	3.41	131.05	124.68
33	RG	201	CYC	C1A-C2A-C3A	-3.41	103.01	106.78
44	cE	516	DGD	O1G-C1A-C2A	3.41	122.60	111.91
33	eJ	201	CYC	C4A-C3A-C2A	-3.41	102.60	106.51
43	z1	101	BCR	C15-C14-C13	-3.41	122.45	127.31
33	h5	201	CYC	OC-C1C-C2C	-3.41	123.47	126.17
33	B4	1004	CYC	CMB-C2B-C1B	3.41	128.42	124.17
43	zD	101	BCR	C38-C26-C25	-3.40	120.70	124.53
36	DD	406	CLA	O2D-CGD-O1D	-3.40	117.18	123.84
33	u4	201	CYC	C4A-C3A-C2A	-3.40	102.60	106.51
36	DE	406	CLA	O2D-CGD-O1D	-3.40	117.18	123.84
36	CE	511	CLA	C2D-C1D-ND	-3.40	107.60	110.10
33	y4	201	CYC	C1B-C2B-C3B	-3.40	104.32	107.87
43	cD	519	BCR	C16-C15-C14	-3.40	116.51	123.47
36	B1	602	CLA	CMB-C2B-C3B	3.40	131.04	124.68
36	bD	603	CLA	CMB-C2B-C1B	-3.40	123.24	128.46
33	i7	202	CYC	C4A-C3A-C2A	-3.40	102.60	106.51
33	CB	1001	CYC	CMB-C2B-C1B	3.40	128.41	124.17
36	x1	101	CLA	CMB-C2B-C1B	-3.40	123.24	128.46
33	5L	201	CYC	CHD-C4C-NC	3.40	129.25	125.20
36	D1	405	CLA	O2D-CGD-O1D	-3.40	117.19	123.84
36	xE	101	CLA	CMB-C2B-C1B	-3.40	123.24	128.46
33	IF	201	CYC	C2B-C1B-NB	3.40	111.96	106.99
36	dD	406	CLA	O2D-CGD-O1D	-3.40	117.20	123.84
43	Z1	101	BCR	C15-C14-C13	-3.40	122.46	127.31
43	zD	101	BCR	C15-C14-C13	-3.40	122.46	127.31
33	IK	201	CYC	C2B-C1B-NB	3.40	111.96	106.99
36	C1	511	CLA	C4A-NA-C1A	3.39	108.23	106.71
36	B1	601	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
33	iJ	202	CYC	C1A-C2A-C3A	-3.39	103.03	106.78
33	BB	1003	CYC	CAA-CBA-CGA	-3.39	106.30	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	GG	201	CYC	CBD-CAD-C3D	-3.39	106.83	112.62
44	CE	518	DGD	O2G-C1B-C2B	3.39	118.81	111.50
43	BE	617	BCR	C16-C17-C18	-3.39	122.47	127.31
33	GL	201	CYC	C1B-C2B-C3B	-3.39	104.33	107.87
43	z1	101	BCR	C21-C20-C19	3.39	133.80	123.22
33	iC	202	CYC	C1A-C2A-C3A	-3.39	103.03	106.78
33	bF	201	CYC	C1B-C2B-C3B	-3.39	104.33	107.87
33	cF	201	CYC	CMB-C2B-C1B	3.39	128.40	124.17
36	a1	406	CLA	CMB-C2B-C3B	3.39	131.02	124.68
44	CD	518	DGD	O2G-C1B-C2B	3.39	118.81	111.50
33	ML	201	CYC	C1A-C2A-C3A	-3.39	103.03	106.78
36	d1	406	CLA	O2D-CGD-O1D	-3.39	117.21	123.84
43	C1	516	BCR	C38-C26-C27	3.39	120.12	113.62
43	zE	101	BCR	C21-C20-C19	3.39	133.78	123.22
33	OB	201	CYC	C4A-C3A-C2A	-3.39	102.62	106.51
33	yB	201	CYC	C1B-C2B-C3B	-3.38	104.34	107.87
43	BD	617	BCR	C16-C17-C18	-3.38	122.48	127.31
44	C1	518	DGD	O2G-C1B-C2B	3.38	118.79	111.50
33	iH	202	CYC	C1A-C2A-C3A	-3.38	103.04	106.78
36	BE	601	CLA	CMB-C2B-C1B	-3.38	123.27	128.46
33	O4	201	CYC	C4A-C3A-C2A	-3.38	102.62	106.51
36	bE	603	CLA	CMB-C2B-C1B	-3.38	123.27	128.46
33	sB	201	CYC	CAA-C2A-C1A	3.38	130.99	125.01
43	zD	101	BCR	C21-C20-C19	3.38	133.77	123.22
43	BE	616	BCR	C28-C27-C26	-3.38	108.04	114.08
43	Z1	101	BCR	C21-C20-C19	3.38	133.77	123.22
43	ZD	101	BCR	C15-C14-C13	-3.38	122.49	127.31
43	ZE	101	BCR	C21-C20-C19	3.38	133.76	123.22
33	i5	202	CYC	C1A-C2A-C3A	-3.38	103.04	106.78
43	b1	617	BCR	C28-C27-C26	-3.38	108.04	114.08
33	mF	201	CYC	CBC-CAC-C3C	3.38	120.99	113.47
33	v4	201	CYC	CHA-C1A-NA	-3.38	124.14	128.83
33	vB	201	CYC	CHA-C1A-NA	-3.38	124.14	128.83
33	u4	201	CYC	CMB-C2B-C1B	3.38	128.38	124.17
36	cE	506	CLA	CAA-CBA-CGA	3.38	123.12	113.25
33	RL	201	CYC	C1A-C2A-C3A	-3.38	103.05	106.78
33	i2	202	CYC	C1A-C2A-C3A	-3.38	103.05	106.78
33	PG	201	CYC	CHB-C1B-NB	-3.38	118.81	126.06
33	z4	201	CYC	CHB-C4A-NA	-3.37	117.88	124.93
33	WL	201	CYC	C2B-C1B-NB	3.37	111.93	106.99
43	B1	616	BCR	C28-C27-C26	-3.37	108.05	114.08
33	bK	201	CYC	OC-C1C-C2C	-3.37	123.49	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	d1	407	BCR	C21-C20-C19	-3.37	112.70	123.22
33	CB	1002	CYC	C1A-C2A-C3A	-3.37	103.05	106.78
33	WL	201	CYC	CHB-C4A-C3A	3.37	133.57	124.90
33	s4	201	CYC	CAA-C2A-C1A	3.37	130.97	125.01
33	zB	201	CYC	CHB-C4A-NA	-3.37	117.88	124.93
33	fK	201	CYC	C1A-C2A-C3A	-3.37	103.05	106.78
33	g8	202	CYC	C1A-C2A-C3A	-3.37	103.05	106.78
33	RG	201	CYC	C2C-C1C-NC	3.37	111.18	108.27
33	IK	201	CYC	CMA-C3A-C2A	-3.37	116.97	126.12
43	B1	617	BCR	C16-C17-C18	-3.37	122.50	127.31
43	bD	617	BCR	C28-C27-C26	-3.37	108.06	114.08
33	WG	201	CYC	CHB-C4A-C3A	3.37	133.56	124.90
33	RB	201	CYC	CMB-C2B-C1B	3.37	128.37	124.17
33	R4	201	CYC	CMB-C2B-C1B	3.37	128.37	124.17
36	dE	406	CLA	O2D-CGD-O1D	-3.37	117.25	123.84
33	mK	201	CYC	CBC-CAC-C3C	3.37	120.96	113.47
33	WB	201	CYC	OC-C1C-C2C	-3.37	123.50	126.17
33	PL	201	CYC	CHB-C1B-NB	-3.37	118.83	126.06
43	dD	407	BCR	C21-C20-C19	-3.37	112.71	123.22
33	BB	1004	CYC	CHA-C1A-NA	-3.37	124.16	128.83
43	CE	516	BCR	C21-C20-C19	-3.37	112.71	123.22
36	cD	506	CLA	CAA-CBA-CGA	3.37	123.09	113.25
33	eJ	201	CYC	C1A-C2A-C3A	-3.37	103.06	106.78
36	b1	603	CLA	CMB-C2B-C1B	-3.36	123.29	128.46
43	ZD	101	BCR	C21-C20-C19	3.36	133.72	123.22
43	ZE	101	BCR	C38-C26-C25	-3.36	120.75	124.53
33	i9	202	CYC	C1A-C2A-C3A	-3.36	103.06	106.78
43	ID	102	BCR	C15-C14-C13	-3.36	122.51	127.31
43	zE	101	BCR	C15-C14-C13	-3.36	122.51	127.31
43	CD	516	BCR	C21-C20-C19	-3.36	112.72	123.22
33	W4	201	CYC	OC-C1C-C2C	-3.36	123.50	126.17
33	uB	201	CYC	CMB-C2B-C1B	3.36	128.37	124.17
33	NK	101	CYC	C4A-C3A-C2A	-3.36	102.65	106.51
33	C4	1001	CYC	CMB-C2B-C1B	3.36	128.37	124.17
43	BD	616	BCR	C28-C27-C26	-3.36	108.07	114.08
36	c1	509	CLA	CMB-C2B-C3B	3.36	130.97	124.68
36	CE	511	CLA	C4A-NA-C1A	3.36	108.22	106.71
36	cE	509	CLA	CMB-C2B-C3B	3.36	130.97	124.68
43	dE	407	BCR	C21-C20-C19	-3.36	112.73	123.22
33	C4	1002	CYC	C1A-C2A-C3A	-3.36	103.06	106.78
33	iI	202	CYC	C1A-C2A-C3A	-3.36	103.06	106.78
33	RG	201	CYC	CMA-C3A-C4A	3.36	130.24	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	RL	201	CYC	CMA-C3A-C4A	3.36	130.24	125.06
33	B6	301	CYC	C1A-C2A-C3A	-3.36	103.06	106.78
43	IE	102	BCR	C15-C14-C13	-3.36	122.52	127.31
43	DE	407	BCR	C21-C20-C19	-3.36	112.73	123.22
43	bE	617	BCR	C28-C27-C26	-3.36	108.08	114.08
33	iA	202	CYC	C1A-C2A-C3A	-3.36	103.06	106.78
33	e8	201	CYC	C1A-C2A-C3A	-3.36	103.07	106.78
36	c1	505	CLA	CAA-CBA-CGA	3.36	123.06	113.25
36	A1	404	CLA	CMA-C3A-C4A	-3.36	102.75	111.77
33	bK	201	CYC	C1B-NB-C4B	-3.36	106.40	110.67
33	GL	201	CYC	CBD-CAD-C3D	-3.36	106.89	112.62
43	DD	407	BCR	C21-C20-C19	-3.36	112.75	123.22
33	e3	201	CYC	C1A-C2A-C3A	-3.36	103.07	106.78
33	B3	301	CYC	C1A-C2A-C3A	-3.36	103.07	106.78
43	D1	406	BCR	C21-C20-C19	-3.35	112.75	123.22
33	IF	201	CYC	CMA-C3A-C2A	-3.35	117.01	126.12
33	B4	1004	CYC	CHA-C1A-NA	-3.35	124.17	128.83
36	bE	604	CLA	C1B-CHB-C4A	-3.35	123.48	130.12
33	QB	201	CYC	CMB-C2B-C1B	3.35	128.35	124.17
33	PG	201	CYC	C4A-C3A-C2A	-3.35	102.66	106.51
33	VG	201	CYC	CBC-CAC-C3C	3.35	120.93	113.47
33	bF	201	CYC	C1B-NB-C4B	-3.35	106.40	110.67
43	I1	102	BCR	C15-C14-C13	-3.35	122.53	127.31
33	i8	202	CYC	C1A-C2A-C3A	-3.35	103.08	106.78
33	k8	201	CYC	C1A-C2A-C3A	-3.35	103.08	106.78
33	eC	201	CYC	C1A-C2A-C3A	-3.35	103.08	106.78
33	f7	201	CYC	CAC-C3C-C2C	-3.35	105.89	114.26
33	6L	201	CYC	CHA-C1A-NA	-3.35	124.18	128.83
33	PL	201	CYC	C4A-C3A-C2A	-3.35	102.67	106.51
33	mK	201	CYC	C4A-C3A-C2A	-3.35	102.67	106.51
36	cD	509	CLA	CMB-C2B-C3B	3.35	130.94	124.68
33	eH	201	CYC	C1A-C2A-C3A	-3.35	103.08	106.78
33	VL	201	CYC	CBC-CAC-C3C	3.35	120.92	113.47
33	WL	201	CYC	C1B-CHB-C4A	3.35	136.26	128.08
36	AD	404	CLA	CMA-C3A-C4A	-3.35	102.78	111.77
33	k2	201	CYC	C1A-C2A-C3A	-3.35	103.08	106.78
33	dJ	201	CYC	CAC-C3C-C2C	-3.34	105.91	114.26
33	B9	301	CYC	C1A-C2A-C3A	-3.34	103.08	106.78
33	3F	102	CYC	OC-C1C-C2C	-3.34	123.52	126.17
43	C1	516	BCR	C21-C20-C19	-3.34	112.78	123.22
33	dA	201	CYC	CAC-C3C-C2C	-3.34	105.91	114.26
33	6G	201	CYC	CHA-C1A-NA	-3.34	124.19	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	NF	101	CYC	C4A-C3A-C2A	-3.34	102.67	106.51
33	f2	201	CYC	CAC-C3C-C2C	-3.34	105.91	114.26
43	bE	618	BCR	C16-C17-C18	-3.34	122.54	127.31
33	Q4	201	CYC	CMB-C2B-C1B	3.34	128.34	124.17
36	bD	604	CLA	C1B-CHB-C4A	-3.34	123.50	130.12
33	WG	201	CYC	C1B-CHB-C4A	3.34	136.24	128.08
33	eK	201	CYC	CHB-C1B-NB	-3.34	118.89	126.06
33	JK	201	CYC	OC-C1C-NC	3.34	128.99	124.94
33	OG	201	CYC	C4A-C3A-C2A	-3.34	102.67	106.51
33	RL	201	CYC	C2C-C1C-NC	3.34	111.15	108.27
33	OL	201	CYC	C4A-C3A-C2A	-3.34	102.68	106.51
33	k9	201	CYC	C1A-C2A-C3A	-3.34	103.09	106.78
36	BE	602	CLA	C1B-CHB-C4A	-3.34	123.51	130.12
33	fF	201	CYC	C1A-C2A-C3A	-3.34	103.09	106.78
43	bD	618	BCR	C16-C17-C18	-3.34	122.55	127.31
33	d2	201	CYC	CAC-C3C-C2C	-3.33	105.93	114.26
33	eF	201	CYC	CHB-C1B-NB	-3.33	118.90	126.06
33	BA	301	CYC	C1A-C2A-C3A	-3.33	103.09	106.78
33	B7	301	CYC	C1A-C2A-C3A	-3.33	103.09	106.78
33	gH	202	CYC	C1A-C2A-C3A	-3.33	103.09	106.78
33	d7	201	CYC	CAC-C3C-C2C	-3.33	105.93	114.26
33	fJ	201	CYC	CAC-C3C-C2C	-3.33	105.93	114.26
33	e6	201	CYC	C1A-C2A-C3A	-3.33	103.09	106.78
33	fH	201	CYC	CAC-C3C-C2C	-3.33	105.93	114.26
33	b4	101	CYC	OC-C1C-C2C	-3.33	123.52	126.17
33	f8	201	CYC	CAC-C3C-C2C	-3.33	105.94	114.26
33	e5	201	CYC	C1A-C2A-C3A	-3.33	103.10	106.78
33	b2	201	CYC	CAC-C3C-C2C	-3.33	105.94	114.26
33	f6	201	CYC	CAC-C3C-C2C	-3.33	105.94	114.26
33	fI	201	CYC	CAC-C3C-C2C	-3.33	105.94	114.26
33	JF	201	CYC	OC-C1C-NC	3.33	128.97	124.94
33	II	201	CYC	CAC-C3C-C2C	-3.33	105.94	114.26
33	f3	201	CYC	CAC-C3C-C2C	-3.33	105.94	114.26
33	bB	101	CYC	OC-C1C-C2C	-3.33	123.53	126.17
33	eA	201	CYC	C1A-C2A-C3A	-3.33	103.10	106.78
33	f9	201	CYC	CAC-C3C-C2C	-3.33	105.94	114.26
33	dI	201	CYC	CAC-C3C-C2C	-3.33	105.94	114.26
36	b1	604	CLA	C1B-CHB-C4A	-3.33	123.53	130.12
33	f5	201	CYC	CAC-C3C-C2C	-3.33	105.94	114.26
33	BC	301	CYC	C1A-C2A-C3A	-3.33	103.10	106.78
33	Q4	201	CYC	C1B-C2B-C3B	-3.33	104.40	107.87
33	d5	201	CYC	CAC-C3C-C2C	-3.33	105.94	114.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	jF	201	CYC	C1B-NB-C4B	-3.33	106.43	110.67
33	g5	202	CYC	C1A-C2A-C3A	-3.33	103.10	106.78
33	fA	201	CYC	CAC-C3C-C2C	-3.33	105.95	114.26
33	d6	201	CYC	CAC-C3C-C2C	-3.33	105.95	114.26
36	AE	404	CLA	CMA-C3A-C4A	-3.33	102.83	111.77
36	c1	510	CLA	CHD-C1D-ND	-3.33	121.40	124.45
33	gJ	202	CYC	C1A-C2A-C3A	-3.33	103.10	106.78
33	bJ	201	CYC	CAC-C3C-C2C	-3.33	105.95	114.26
33	e2	201	CYC	C1A-C2A-C3A	-3.32	103.10	106.78
33	e9	201	CYC	C1A-C2A-C3A	-3.32	103.10	106.78
33	mF	201	CYC	C4A-C3A-C2A	-3.32	102.69	106.51
43	b1	618	BCR	C16-C17-C18	-3.32	122.57	127.31
33	B2	301	CYC	C1A-C2A-C3A	-3.32	103.10	106.78
33	XK	201	CYC	C4A-C3A-C2A	-3.32	102.69	106.51
33	4G	201	CYC	C4A-C3A-C2A	-3.32	102.69	106.51
41	a1	411	BCT	O3-C-O1	-3.32	110.93	119.55
33	dH	201	CYC	CAC-C3C-C2C	-3.32	105.96	114.26
33	e7	201	CYC	C1A-C2A-C3A	-3.32	103.11	106.78
33	r4	201	CYC	CHB-C4A-NA	-3.32	117.98	124.93
33	b8	201	CYC	CAC-C3C-C2C	-3.32	105.96	114.26
36	BD	602	CLA	C1B-CHB-C4A	-3.32	123.54	130.12
36	C1	504	CLA	CHB-C4A-NA	3.32	129.10	124.51
33	d8	201	CYC	C2A-C1A-NA	3.32	114.88	110.05
33	bA	201	CYC	CAC-C3C-C2C	-3.32	105.96	114.26
33	l3	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
41	aE	410	BCT	O3-C-O1	-3.32	110.94	119.55
33	2L	101	CYC	C1B-NB-C4B	-3.32	106.44	110.67
33	2G	101	CYC	C1B-NB-C4B	-3.32	106.44	110.67
33	k3	201	CYC	C1A-C2A-C3A	-3.32	103.11	106.78
33	lA	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
33	lH	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
33	CB	1001	CYC	C1B-C2B-C3B	-3.32	104.41	107.87
33	jK	201	CYC	C1B-NB-C4B	-3.32	106.44	110.67
33	XF	201	CYC	C4A-C3A-C2A	-3.32	102.70	106.51
33	l7	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
33	b7	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
33	bC	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
33	dC	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
33	bF	201	CYC	OC-C1C-C2C	-3.32	123.54	126.17
33	fC	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
33	d8	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
41	aD	410	BCT	O3-C-O1	-3.32	110.94	119.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	b3	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
33	l9	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
33	bH	201	CYC	CAC-C3C-C2C	-3.32	105.97	114.26
33	rB	201	CYC	CHB-C4A-NA	-3.31	118.00	124.93
33	j3	201	CYC	CAC-C3C-C2C	-3.31	105.98	114.26
33	l6	201	CYC	CAC-C3C-C2C	-3.31	105.98	114.26
33	dJ	201	CYC	C2A-C1A-NA	3.31	114.87	110.05
36	B1	602	CLA	C1B-CHB-C4A	-3.31	123.56	130.12
33	d3	201	CYC	CAC-C3C-C2C	-3.31	105.98	114.26
33	b9	201	CYC	CAC-C3C-C2C	-3.31	105.98	114.26
33	LK	201	CYC	OC-C1C-C2C	-3.31	123.54	126.17
43	B1	617	BCR	C11-C10-C9	-3.31	122.58	127.31
33	BI	301	CYC	C1A-C2A-C3A	-3.31	103.12	106.78
33	j8	201	CYC	CAC-C3C-C2C	-3.31	105.98	114.26
33	3K	102	CYC	OC-C1C-C2C	-3.31	123.54	126.17
33	lJ	201	CYC	CAC-C3C-C2C	-3.31	105.99	114.26
33	l2	201	CYC	CAC-C3C-C2C	-3.31	105.99	114.26
33	l5	201	CYC	CAC-C3C-C2C	-3.31	105.99	114.26
43	ZD	101	BCR	C38-C26-C25	-3.31	120.81	124.53
33	l8	201	CYC	CAC-C3C-C2C	-3.31	105.99	114.26
33	lC	201	CYC	CAC-C3C-C2C	-3.31	105.99	114.26
33	kF	201	CYC	C2C-C1C-NC	3.31	111.13	108.27
33	kH	201	CYC	C1A-C2A-C3A	-3.31	103.12	106.78
33	kK	201	CYC	C2C-C1C-NC	3.31	111.12	108.27
33	b5	201	CYC	CAC-C3C-C2C	-3.31	105.99	114.26
33	RB	201	CYC	CHB-C1B-C2B	3.31	133.50	126.95
33	eI	201	CYC	C1A-C2A-C3A	-3.31	103.12	106.78
33	jC	201	CYC	CAC-C3C-C2C	-3.31	106.00	114.26
33	k7	201	CYC	C1A-C2A-C3A	-3.31	103.12	106.78
36	B1	607	CLA	CHB-C4A-NA	3.31	129.08	124.51
33	b6	201	CYC	CAC-C3C-C2C	-3.31	106.00	114.26
33	j6	201	CYC	CAC-C3C-C2C	-3.31	106.00	114.26
36	I1	101	CLA	CAA-C2A-C3A	-3.31	103.73	112.78
33	v4	201	CYC	C2A-C1A-NA	3.31	114.86	110.05
36	CE	504	CLA	CHB-C4A-NA	3.30	129.08	124.51
33	jH	201	CYC	CAC-C3C-C2C	-3.30	106.00	114.26
33	XB	201	CYC	CMA-C3A-C4A	3.30	130.15	125.06
33	d2	201	CYC	C2A-C1A-NA	3.30	114.86	110.05
33	kA	201	CYC	C1A-C2A-C3A	-3.30	103.13	106.78
36	bE	613	CLA	CMB-C2B-C1B	-3.30	123.39	128.46
33	d9	201	CYC	C2A-C1A-NA	3.30	114.85	110.05
33	kJ	201	CYC	C1A-C2A-C3A	-3.30	103.13	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	j9	201	CYC	CAC-C3C-C2C	-3.30	106.01	114.26
36	cD	510	CLA	CHD-C1D-ND	-3.30	121.42	124.45
33	hC	201	CYC	CAC-C3C-C2C	-3.30	106.01	114.26
33	QB	201	CYC	C1B-C2B-C3B	-3.30	104.42	107.87
33	d9	201	CYC	CAC-C3C-C2C	-3.30	106.01	114.26
33	jJ	201	CYC	CAC-C3C-C2C	-3.30	106.01	114.26
36	CD	504	CLA	CHB-C4A-NA	3.30	129.08	124.51
33	X4	201	CYC	CMA-C3A-C4A	3.30	130.15	125.06
33	jA	201	CYC	CAC-C3C-C2C	-3.30	106.01	114.26
33	R4	201	CYC	CHB-C1B-C2B	3.30	133.49	126.95
33	j5	201	CYC	CAC-C3C-C2C	-3.30	106.02	114.26
33	hA	201	CYC	CAC-C3C-C2C	-3.30	106.02	114.26
36	CD	511	CLA	C4A-NA-C1A	3.30	108.19	106.71
36	c1	504	CLA	CMB-C2B-C1B	-3.30	123.39	128.46
36	bD	613	CLA	CMB-C2B-C1B	-3.30	123.39	128.46
43	Z1	101	BCR	C38-C26-C25	-3.30	120.82	124.53
33	j7	201	CYC	CAC-C3C-C2C	-3.30	106.02	114.26
33	nK	201	CYC	CHA-C1A-NA	-3.30	124.25	128.83
36	BE	612	CLA	CMB-C2B-C1B	-3.30	123.40	128.46
45	DD	401	PHO	C11-C12-C13	3.30	126.57	115.92
36	ID	101	CLA	CAA-C2A-C3A	-3.30	103.75	112.78
33	k6	201	CYC	C1A-C2A-C3A	-3.30	103.14	106.78
33	kC	201	CYC	C1A-C2A-C3A	-3.30	103.14	106.78
33	i6	202	CYC	OB-C4B-C3B	-3.30	124.46	128.04
36	BD	612	CLA	CMB-C2B-C1B	-3.30	123.40	128.46
33	h6	201	CYC	CAC-C3C-C2C	-3.30	106.03	114.26
33	dH	201	CYC	C2A-C1A-NA	3.29	114.84	110.05
33	j2	201	CYC	CAC-C3C-C2C	-3.29	106.03	114.26
33	h3	201	CYC	CAC-C3C-C2C	-3.29	106.03	114.26
43	IE	102	BCR	C7-C8-C9	-3.29	121.26	126.23
33	3F	102	CYC	CHA-C1A-NA	-3.29	124.26	128.83
33	jI	201	CYC	CAC-C3C-C2C	-3.29	106.03	114.26
33	i8	202	CYC	OB-C4B-C3B	-3.29	124.47	128.04
33	AL	201	CYC	CMA-C3A-C4A	3.29	130.13	125.06
36	IE	101	CLA	CAA-C2A-C3A	-3.29	103.76	112.78
33	dA	201	CYC	C2A-C1A-NA	3.29	114.84	110.05
33	B4	1002	CYC	CBD-CAD-C3D	-3.29	107.00	112.62
33	MG	201	CYC	C1B-CHB-C4A	3.29	136.12	128.08
33	dK	201	CYC	C2C-C1C-NC	3.29	111.11	108.27
36	BE	607	CLA	CHB-C4A-NA	3.29	129.06	124.51
33	VB	201	CYC	C1B-C2B-C3B	-3.29	104.44	107.87
33	jK	201	CYC	CHB-C4A-NA	-3.29	118.05	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	BD	617	BCR	C11-C10-C9	-3.29	122.61	127.31
36	c1	504	CLA	O2D-CGD-O1D	-3.29	117.40	123.84
36	cD	505	CLA	O2D-CGD-O1D	-3.29	117.40	123.84
33	AG	201	CYC	CMA-C3A-C4A	3.29	130.13	125.06
36	B1	612	CLA	CMB-C2B-C1B	-3.29	123.41	128.46
33	bI	201	CYC	CAC-C3C-C2C	-3.29	106.04	114.26
33	CB	1002	CYC	OB-C4B-C3B	-3.29	124.47	128.04
33	d6	201	CYC	C2A-C1A-NA	3.29	114.83	110.05
33	kI	201	CYC	C1A-C2A-C3A	-3.29	103.14	106.78
33	d3	201	CYC	C2A-C1A-NA	3.29	114.83	110.05
33	aB	201	CYC	CHA-C1A-NA	-3.29	124.27	128.83
33	iC	202	CYC	OB-C4B-C3B	-3.29	124.47	128.04
36	BD	607	CLA	CHB-C4A-NA	3.29	129.06	124.51
36	cE	505	CLA	CMB-C2B-C1B	-3.29	123.41	128.46
33	h9	201	CYC	CAC-C3C-C2C	-3.28	106.06	114.26
33	hH	201	CYC	CAC-C3C-C2C	-3.28	106.06	114.26
36	cD	505	CLA	CMB-C2B-C1B	-3.28	123.42	128.46
33	e8	201	CYC	OB-C4B-C3B	-3.28	124.48	128.04
33	4L	201	CYC	C4A-C3A-C2A	-3.28	102.74	106.51
33	ML	201	CYC	C1B-CHB-C4A	3.28	136.10	128.08
33	h7	201	CYC	CAC-C3C-C2C	-3.28	106.06	114.26
33	k5	201	CYC	C1A-C2A-C3A	-3.28	103.15	106.78
33	dC	201	CYC	C2A-C1A-NA	3.28	114.82	110.05
33	nF	201	CYC	CHA-C1A-NA	-3.28	124.28	128.83
33	jF	201	CYC	C4A-C3A-C2A	-3.28	102.74	106.51
33	jF	201	CYC	CHB-C4A-NA	-3.28	118.08	124.93
33	h5	201	CYC	CAC-C3C-C2C	-3.28	106.07	114.26
43	ID	102	BCR	C7-C8-C9	-3.28	121.28	126.23
33	h2	201	CYC	CAC-C3C-C2C	-3.28	106.07	114.26
36	cE	510	CLA	CHD-C1D-ND	-3.28	121.44	124.45
43	BE	617	BCR	C11-C10-C9	-3.28	122.63	127.31
33	d5	201	CYC	C2A-C1A-NA	3.28	114.81	110.05
33	MG	201	CYC	C4A-C3A-C2A	-3.28	102.75	106.51
33	i3	202	CYC	OB-C4B-C3B	-3.28	124.48	128.04
33	ML	201	CYC	C4A-C3A-C2A	-3.28	102.75	106.51
33	BI	301	CYC	C1B-NB-C4B	-3.28	106.50	110.67
33	LF	201	CYC	OC-C1C-C2C	-3.28	123.57	126.17
33	V4	201	CYC	C1B-C2B-C3B	-3.27	104.45	107.87
36	b1	613	CLA	CMB-C2B-C1B	-3.27	123.43	128.46
33	d7	201	CYC	C2A-C1A-NA	3.27	114.81	110.05
33	SB	201	CYC	C2B-C1B-NB	3.27	111.78	106.99
36	cE	505	CLA	O2D-CGD-O1D	-3.27	117.44	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	AL	201	CYC	CMC-C2C-C1C	-3.27	105.35	112.40
33	h8	201	CYC	CAC-C3C-C2C	-3.27	106.08	114.26
47	VE	201	HEM	CMA-C3A-C4A	-3.27	123.43	128.46
33	C4	1001	CYC	C1B-C2B-C3B	-3.27	104.46	107.87
33	vB	201	CYC	C2A-C1A-NA	3.27	114.81	110.05
47	vE	201	HEM	CMA-C3A-C4A	-3.27	123.44	128.46
33	dI	201	CYC	C2A-C1A-NA	3.27	114.81	110.05
47	VD	201	HEM	CMA-C3A-C4A	-3.27	123.44	128.46
33	hI	201	CYC	CAC-C3C-C2C	-3.27	106.09	114.26
43	IE	102	BCR	C11-C10-C9	-3.27	122.64	127.31
33	fK	201	CYC	CBD-CAD-C3D	-3.27	107.04	112.62
33	AG	201	CYC	CMC-C2C-C1C	-3.27	105.36	112.40
43	bE	618	BCR	C11-C10-C9	-3.27	122.65	127.31
33	B3	301	CYC	C1B-NB-C4B	-3.27	106.51	110.67
33	i2	202	CYC	OB-C4B-C3B	-3.27	124.50	128.04
43	I1	102	BCR	C11-C10-C9	-3.27	122.65	127.31
33	9F	201	CYC	C1A-C2A-C3A	-3.27	103.17	106.78
33	bI	201	CYC	C1A-C2A-C3A	-3.27	103.17	106.78
36	bD	614	CLA	CMB-C2B-C1B	-3.27	123.44	128.46
43	c1	519	BCR	C20-C21-C22	-3.26	122.65	127.31
36	cD	503	CLA	CMB-C2B-C1B	-3.26	123.45	128.46
33	b3	201	CYC	C2A-C1A-NA	3.26	114.80	110.05
36	cE	509	CLA	C1D-ND-C4D	-3.26	104.02	106.33
43	iE	102	BCR	C16-C15-C14	-3.26	116.79	123.47
33	fC	201	CYC	C1A-C2A-C3A	-3.26	103.17	106.78
33	C4	1003	CYC	CBD-CAD-C3D	-3.26	107.05	112.62
33	HL	201	CYC	C2C-C3C-C4C	-3.26	96.45	101.34
33	hJ	201	CYC	CAC-C3C-C2C	-3.26	106.11	114.26
33	a4	201	CYC	CHA-C1A-NA	-3.26	124.30	128.83
33	fF	201	CYC	CBD-CAD-C3D	-3.26	107.05	112.62
36	cD	509	CLA	C1D-ND-C4D	-3.26	104.02	106.33
33	y4	201	CYC	C1A-C2A-C3A	-3.26	103.17	106.78
33	b5	201	CYC	C2A-C1A-NA	3.26	114.79	110.05
33	i5	202	CYC	C1B-NB-C4B	-3.26	106.52	110.67
33	cI	201	CYC	C1A-C2A-C3A	-3.26	103.17	106.78
33	B4	1003	CYC	CHA-C1A-C2A	-3.26	117.79	125.32
33	CB	1003	CYC	C4A-C3A-C2A	-3.26	102.77	106.51
33	RL	201	CYC	C4A-C3A-C2A	-3.26	102.77	106.51
33	yB	201	CYC	C4A-C3A-C2A	-3.26	102.77	106.51
43	I1	102	BCR	C7-C8-C9	-3.26	121.31	126.23
47	vD	201	HEM	CMA-C3A-C4A	-3.26	123.46	128.46
36	BE	601	CLA	CHB-C4A-NA	3.26	129.02	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	S4	201	CYC	C2B-C1B-NB	3.26	111.76	106.99
33	HG	201	CYC	C2C-C3C-C4C	-3.26	96.46	101.34
40	b1	601	LMT	C2'-C3'-C4'	3.26	117.12	109.68
33	3K	102	CYC	CHA-C1A-NA	-3.26	124.31	128.83
33	yB	201	CYC	C1A-C2A-C3A	-3.26	103.18	106.78
33	iA	202	CYC	OB-C4B-C3B	-3.26	124.51	128.04
33	eC	201	CYC	OB-C4B-C3B	-3.26	124.51	128.04
43	cD	519	BCR	C20-C21-C22	-3.26	122.66	127.31
33	jK	201	CYC	C4A-C3A-C2A	-3.26	102.77	106.51
33	B2	301	CYC	C1B-NB-C4B	-3.26	106.52	110.67
43	ID	102	BCR	C11-C10-C9	-3.26	122.66	127.31
33	BB	1002	CYC	CBD-CAD-C3D	-3.26	107.06	112.62
33	cJ	201	CYC	C1A-C2A-C3A	-3.26	103.18	106.78
33	4G	201	CYC	CMB-C2B-C1B	3.25	128.23	124.17
45	DE	401	PHO	CMA-C3A-C4A	-3.25	107.25	114.38
33	b7	201	CYC	C2A-C1A-NA	3.25	114.78	110.05
33	f7	201	CYC	C1A-C2A-C3A	-3.25	103.18	106.78
33	i5	202	CYC	OB-C4B-C3B	-3.25	124.51	128.04
33	BB	1003	CYC	CHA-C1A-C2A	-3.25	117.80	125.32
47	v1	201	HEM	CMA-C3A-C4A	-3.25	123.46	128.46
33	g5	202	CYC	C1B-NB-C4B	-3.25	106.53	110.67
33	gJ	202	CYC	C1B-NB-C4B	-3.25	106.53	110.67
33	bC	201	CYC	C2A-C1A-NA	3.25	114.78	110.05
33	bI	201	CYC	C2A-C1A-NA	3.25	114.78	110.05
33	VL	201	CYC	C4A-C3A-C2A	-3.25	102.77	106.51
33	i2	202	CYC	C1B-NB-C4B	-3.25	106.53	110.67
33	fK	201	CYC	OB-C4B-C3B	-3.25	124.51	128.04
33	B4	1002	CYC	C4A-C3A-C2A	-3.25	102.77	106.51
33	g8	202	CYC	C1B-NB-C4B	-3.25	106.53	110.67
33	b6	201	CYC	C1A-C2A-C3A	-3.25	103.19	106.78
33	B7	301	CYC	OB-C4B-C3B	-3.25	124.51	128.04
33	y4	201	CYC	C4A-C3A-C2A	-3.25	102.78	106.51
33	d8	201	CYC	C1A-C2A-C3A	-3.25	103.19	106.78
33	C4	1002	CYC	OB-C4B-C3B	-3.25	124.51	128.04
33	RG	201	CYC	C4A-C3A-C2A	-3.25	102.78	106.51
33	NK	101	CYC	CAD-CBD-CGD	-3.25	104.65	113.76
33	i3	202	CYC	C1B-NB-C4B	-3.25	106.53	110.67
33	j2	201	CYC	C2A-C1A-NA	3.25	114.78	110.05
43	i1	101	BCR	C16-C15-C14	-3.25	116.82	123.47
33	HG	201	CYC	C3A-C4A-NA	3.25	117.46	110.53
33	VG	201	CYC	CMB-C2B-C1B	3.25	128.22	124.17
36	C1	509	CLA	CMB-C2B-C1B	-3.25	123.47	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	cE	503	CLA	CMB-C2B-C1B	-3.25	123.47	128.46
45	A1	412	PHO	CMA-C3A-C4A	-3.25	107.26	114.38
33	VG	201	CYC	C4A-C3A-C2A	-3.25	102.78	106.51
36	CD	509	CLA	CMB-C2B-C1B	-3.25	123.47	128.46
33	eA	201	CYC	OB-C4B-C3B	-3.25	124.52	128.04
33	iI	202	CYC	OB-C4B-C3B	-3.25	124.52	128.04
33	4L	201	CYC	CMB-C2B-C1B	3.25	128.22	124.17
33	eF	201	CYC	C2A-C1A-NA	3.25	114.77	110.05
33	d9	201	CYC	C1A-C2A-C3A	-3.25	103.19	106.78
33	d2	201	CYC	C1A-C2A-C3A	-3.25	103.19	106.78
45	aD	412	PHO	CMA-C3A-C4A	-3.25	107.27	114.38
33	l8	201	CYC	C2A-C1A-NA	3.24	114.77	110.05
36	B1	613	CLA	CMB-C2B-C1B	-3.24	123.48	128.46
33	9K	201	CYC	C1A-C2A-C3A	-3.24	103.19	106.78
36	c1	502	CLA	CMB-C2B-C1B	-3.24	123.48	128.46
36	bE	614	CLA	CMB-C2B-C1B	-3.24	123.48	128.46
33	iH	202	CYC	OB-C4B-C3B	-3.24	124.52	128.04
33	aF	201	CYC	OC-C1C-C2C	-3.24	123.59	126.17
33	cC	201	CYC	C1A-C2A-C3A	-3.24	103.19	106.78
33	dF	201	CYC	C2C-C1C-NC	3.24	111.07	108.27
33	BA	301	CYC	C1B-NB-C4B	-3.24	106.54	110.67
33	bH	201	CYC	C2A-C1A-NA	3.24	114.77	110.05
36	c1	509	CLA	C1D-ND-C4D	-3.24	104.03	106.33
40	bD	601	LMT	C2'-C3'-C4'	3.24	117.08	109.68
33	f6	201	CYC	C1A-C2A-C3A	-3.24	103.19	106.78
33	bC	201	CYC	C1A-C2A-C3A	-3.24	103.19	106.78
33	b2	201	CYC	C2A-C1A-NA	3.24	114.76	110.05
43	cE	519	BCR	C20-C21-C22	-3.24	122.69	127.31
33	cK	201	CYC	C4A-C3A-C2A	-3.24	102.79	106.51
33	gH	202	CYC	C1B-NB-C4B	-3.24	106.54	110.67
38	L1	102	SQD	O9-S-C6	3.24	110.79	106.94
33	HL	201	CYC	C3A-C4A-NA	3.24	117.45	110.53
36	b1	614	CLA	CMB-C2B-C1B	-3.24	123.48	128.46
33	NF	101	CYC	CAD-CBD-CGD	-3.24	104.68	113.76
33	b5	201	CYC	C1A-C2A-C3A	-3.24	103.20	106.78
33	f8	201	CYC	C1A-C2A-C3A	-3.24	103.20	106.78
33	c9	201	CYC	C1A-C2A-C3A	-3.24	103.20	106.78
33	fJ	201	CYC	C1A-C2A-C3A	-3.24	103.20	106.78
40	bE	601	LMT	C2'-C3'-C4'	3.24	117.08	109.68
33	BB	1002	CYC	C4A-C3A-C2A	-3.24	102.79	106.51
33	C4	1003	CYC	C4A-C3A-C2A	-3.24	102.79	106.51
33	JK	201	CYC	CHA-C1A-C2A	-3.24	117.84	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	b3	201	CYC	C1A-C2A-C3A	-3.24	103.20	106.78
33	iI	202	CYC	C1B-NB-C4B	-3.24	106.55	110.67
33	JF	201	CYC	CHA-C1A-C2A	-3.24	117.84	125.32
33	e3	201	CYC	OB-C4B-C3B	-3.24	124.53	128.04
33	fF	201	CYC	OB-C4B-C3B	-3.24	124.53	128.04
33	RL	201	CYC	C2A-C1A-NA	3.24	114.75	110.05
33	bJ	201	CYC	C2A-C1A-NA	3.24	114.75	110.05
43	bD	618	BCR	C11-C10-C9	-3.24	122.69	127.31
33	iH	202	CYC	C1B-NB-C4B	-3.24	106.55	110.67
33	eH	201	CYC	OB-C4B-C3B	-3.23	124.53	128.04
33	cF	201	CYC	C4A-C3A-C2A	-3.23	102.79	106.51
33	RG	201	CYC	C2A-C1A-NA	3.23	114.75	110.05
33	b8	201	CYC	C2A-C1A-NA	3.23	114.75	110.05
33	CB	1003	CYC	CBD-CAD-C3D	-3.23	107.10	112.62
36	BD	601	CLA	CHB-C4A-NA	3.23	128.98	124.51
33	eK	201	CYC	C2A-C1A-NA	3.23	114.75	110.05
33	f7	201	CYC	C2A-C1A-NA	3.23	114.75	110.05
33	i7	202	CYC	OB-C4B-C3B	-3.23	124.53	128.04
33	BC	301	CYC	C1B-NB-C4B	-3.23	106.55	110.67
43	iD	102	BCR	C16-C15-C14	-3.23	116.86	123.47
33	B9	301	CYC	C1B-NB-C4B	-3.23	106.56	110.67
43	BD	615	BCR	C8-C7-C6	3.23	136.28	127.20
33	B6	301	CYC	C1B-NB-C4B	-3.23	106.56	110.67
33	k3	201	CYC	CMB-C2B-C1B	3.23	128.20	124.17
33	sB	201	CYC	CMC-C2C-C1C	-3.23	105.44	112.40
47	V1	201	HEM	CMA-C3A-C4A	-3.23	123.50	128.46
43	BE	615	BCR	C8-C7-C6	3.23	136.27	127.20
43	B1	615	BCR	C8-C7-C6	3.23	136.27	127.20
33	l7	201	CYC	C2A-C1A-NA	3.23	114.75	110.05
33	b6	201	CYC	C2A-C1A-NA	3.23	114.74	110.05
33	bA	201	CYC	C2A-C1A-NA	3.23	114.74	110.05
33	i8	202	CYC	C1B-NB-C4B	-3.23	106.56	110.67
33	f2	201	CYC	C1A-C2A-C3A	-3.23	103.21	106.78
33	f5	201	CYC	O1D-CGD-CBD	3.23	133.45	123.08
33	lC	201	CYC	C2A-C1A-NA	3.23	114.74	110.05
36	cE	513	CLA	CMB-C2B-C3B	3.23	130.72	124.68
33	l3	201	CYC	C2A-C1A-NA	3.23	114.74	110.05
33	j6	201	CYC	C2A-C1A-NA	3.23	114.74	110.05
33	b7	201	CYC	C1A-C2A-C3A	-3.23	103.21	106.78
33	k2	201	CYC	CMB-C2B-C1B	3.23	128.19	124.17
36	B1	601	CLA	CHB-C4A-NA	3.23	128.97	124.51
36	bE	609	CLA	CHB-C4A-NA	3.23	128.97	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	iJ	202	CYC	C1B-NB-C4B	-3.23	106.56	110.67
33	f7	201	CYC	O1D-CGD-CBD	3.23	133.44	123.08
33	j2	201	CYC	C1A-C2A-C3A	-3.23	103.21	106.78
33	c5	201	CYC	C1A-C2A-C3A	-3.23	103.21	106.78
33	bH	201	CYC	C1A-C2A-C3A	-3.23	103.21	106.78
33	i9	202	CYC	C1B-NB-C4B	-3.22	106.56	110.67
33	iC	202	CYC	C1B-NB-C4B	-3.22	106.56	110.67
45	A1	412	PHO	C14-C13-C15	3.22	122.97	111.29
33	eI	201	CYC	OB-C4B-C3B	-3.22	124.54	128.04
33	dA	201	CYC	C1A-C2A-C3A	-3.22	103.21	106.78
33	eJ	201	CYC	OB-C4B-C3B	-3.22	124.54	128.04
33	j6	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
33	fI	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
33	iA	202	CYC	C1B-NB-C4B	-3.22	106.56	110.67
33	mK	201	CYC	CMB-C2B-C1B	3.22	128.19	124.17
33	e2	201	CYC	OB-C4B-C3B	-3.22	124.54	128.04
33	b2	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
33	dH	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
33	i6	202	CYC	C1B-NB-C4B	-3.22	106.57	110.67
33	aK	201	CYC	OC-C1C-C2C	-3.22	123.61	126.17
33	iJ	202	CYC	OB-C4B-C3B	-3.22	124.54	128.04
33	hA	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
33	cF	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
33	jC	201	CYC	C2A-C1A-NA	3.22	114.73	110.05
33	bF	201	CYC	C2A-C1A-NA	3.22	114.73	110.05
40	AE	412	LMT	C3'-C4'-C5'	-3.22	103.54	110.93
33	c8	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
33	fJ	201	CYC	C2A-C1A-NA	3.22	114.73	110.05
36	BE	613	CLA	CMB-C2B-C1B	-3.22	123.51	128.46
33	k7	201	CYC	CMB-C2B-C1B	3.22	128.19	124.17
38	LE	102	SQD	O9-S-C6	3.22	110.77	106.94
33	lJ	201	CYC	C2A-C1A-NA	3.22	114.73	110.05
33	g5	202	CYC	OB-C4B-C3B	-3.22	124.55	128.04
33	j8	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
33	f8	201	CYC	O1D-CGD-CBD	3.22	133.42	123.08
33	l9	201	CYC	C2A-C1A-NA	3.22	114.73	110.05
36	BD	613	CLA	CMB-C2B-C1B	-3.22	123.52	128.46
33	s4	201	CYC	CMC-C2C-C1C	-3.22	105.46	112.40
33	e5	201	CYC	OB-C4B-C3B	-3.22	124.55	128.04
33	cH	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
33	bJ	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
33	b9	201	CYC	C2A-C1A-NA	3.22	114.73	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	7L	201	CYC	CBD-CAD-C3D	-3.22	107.13	112.62
33	h2	201	CYC	C2A-C1A-NA	3.22	114.73	110.05
33	f6	201	CYC	O1D-CGD-CBD	3.22	133.42	123.08
41	AE	410	BCT	O3-C-O1	-3.22	111.20	119.55
37	a1	409	PL9	C25-C24-C26	3.22	120.68	115.27
33	e6	201	CYC	OB-C4B-C3B	-3.22	124.55	128.04
33	jA	201	CYC	C2A-C1A-NA	3.22	114.73	110.05
33	lH	201	CYC	C2A-C1A-NA	3.22	114.73	110.05
33	cK	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
43	ID	102	BCR	C33-C5-C4	3.22	119.79	113.62
38	LD	102	SQD	O9-S-C6	3.22	110.76	106.94
33	WB	201	CYC	CHA-C1A-NA	-3.22	124.37	128.83
33	TB	201	CYC	CHB-C1B-C2B	-3.22	120.58	126.95
33	T4	201	CYC	CHB-C1B-C2B	-3.22	120.58	126.95
33	d5	201	CYC	C1A-C2A-C3A	-3.22	103.22	106.78
40	A1	413	LMT	C3'-C4'-C5'	-3.22	103.56	110.93
38	DE	414	SQD	O7-S-C6	3.22	110.76	106.94
43	IE	102	BCR	C33-C5-C4	3.21	119.79	113.62
43	b1	618	BCR	C11-C10-C9	-3.21	122.72	127.31
33	l5	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
33	b9	201	CYC	C1A-C2A-C3A	-3.21	103.22	106.78
33	CB	1003	CYC	CMB-C2B-C1B	3.21	128.18	124.17
33	fH	201	CYC	O1D-CGD-CBD	3.21	133.41	123.08
33	f6	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
33	B3	301	CYC	OB-C4B-C3B	-3.21	124.55	128.04
33	i9	202	CYC	OB-C4B-C3B	-3.21	124.55	128.04
33	kA	201	CYC	CMB-C2B-C1B	3.21	128.18	124.17
33	kH	201	CYC	CMB-C2B-C1B	3.21	128.18	124.17
36	cD	513	CLA	CMB-C2B-C3B	3.21	130.69	124.68
33	6L	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
33	LL	201	CYC	CHB-C1B-C2B	-3.21	120.58	126.95
41	A1	410	BCT	O3-C-O1	-3.21	111.21	119.55
36	CE	509	CLA	CMB-C2B-C1B	-3.21	123.53	128.46
33	c7	201	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
33	hJ	201	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
33	yB	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
33	f9	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
33	VL	201	CYC	CMB-C2B-C1B	3.21	128.18	124.17
33	fH	201	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
33	BA	301	CYC	OB-C4B-C3B	-3.21	124.56	128.04
33	g8	202	CYC	OB-C4B-C3B	-3.21	124.56	128.04
42	BE	620	LHG	O7-C7-C8	3.21	118.42	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	l2	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
33	j5	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
33	fl	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
33	j9	201	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
33	dJ	201	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
43	I1	102	BCR	C33-C5-C4	3.21	119.78	113.62
43	b1	616	BCR	C8-C7-C6	3.21	136.22	127.20
33	cA	201	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
33	b2	201	CYC	O1D-CGD-CBD	3.21	133.39	123.08
33	f2	201	CYC	O1D-CGD-CBD	3.21	133.39	123.08
33	YF	201	CYC	C2C-C1C-NC	3.21	111.04	108.27
33	h8	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
33	jH	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
33	LG	201	CYC	CHB-C1B-C2B	-3.21	120.59	126.95
38	DD	414	SQD	O7-S-C6	3.21	110.75	106.94
33	j7	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
33	jI	201	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
33	AL	201	CYC	CBD-CAD-C3D	-3.21	107.14	112.62
36	c1	513	CLA	CMB-C2B-C3B	3.21	130.68	124.68
45	dD	402	PHO	CMB-C2B-C3B	3.21	130.68	124.68
33	fH	201	CYC	C2A-C1A-NA	3.21	114.72	110.05
33	bA	201	CYC	C1A-C2A-C3A	-3.21	103.23	106.78
33	IK	201	CYC	CHB-C1B-C2B	3.21	133.30	126.95
33	7G	201	CYC	CBD-CAD-C3D	-3.21	107.15	112.62
33	fl	201	CYC	O1D-CGD-CBD	3.21	133.39	123.08
33	e9	201	CYC	OB-C4B-C3B	-3.21	124.56	128.04
33	TG	201	CYC	C4D-CHA-C1A	3.21	132.64	128.81
33	fJ	201	CYC	O1D-CGD-CBD	3.21	133.38	123.08
33	j8	201	CYC	C2A-C1A-NA	3.21	114.71	110.05
33	fC	201	CYC	C2A-C1A-NA	3.21	114.71	110.05
33	l5	201	CYC	C4A-C3A-C2A	-3.21	102.83	106.51
41	AD	410	BCT	O3-C-O1	-3.21	111.23	119.55
33	f9	201	CYC	O1D-CGD-CBD	3.21	133.38	123.08
33	mF	201	CYC	CMB-C2B-C1B	3.21	128.17	124.17
36	bD	609	CLA	CHB-C4A-NA	3.21	128.94	124.51
33	f8	201	CYC	C2A-C1A-NA	3.21	114.71	110.05
33	e7	201	CYC	OB-C4B-C3B	-3.21	124.56	128.04
33	c6	201	CYC	C1A-C2A-C3A	-3.20	103.24	106.78
33	i7	202	CYC	C1B-NB-C4B	-3.20	106.59	110.67
33	j9	201	CYC	C2A-C1A-NA	3.20	114.71	110.05
33	d7	201	CYC	C1A-C2A-C3A	-3.20	103.24	106.78
33	bA	201	CYC	O1D-CGD-CBD	3.20	133.37	123.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	aE	408	PL9	C25-C24-C26	3.20	120.66	115.27
33	B7	301	CYC	C1B-NB-C4B	-3.20	106.59	110.67
33	RL	201	CYC	OB-C4B-C3B	-3.20	124.56	128.04
33	B9	301	CYC	OB-C4B-C3B	-3.20	124.56	128.04
37	aD	408	PL9	C25-C24-C26	3.20	120.66	115.27
36	a1	407	CLA	CHB-C4A-NA	3.20	128.94	124.51
33	l6	201	CYC	C2A-C1A-NA	3.20	114.71	110.05
33	sB	201	CYC	C2A-C1A-NA	3.20	114.71	110.05
33	VL	201	CYC	OC-C1C-C2C	-3.20	123.63	126.17
33	jA	201	CYC	C1A-C2A-C3A	-3.20	103.24	106.78
33	d8	201	CYC	O1D-CGD-CBD	3.20	133.37	123.08
33	fA	201	CYC	O1D-CGD-CBD	3.20	133.37	123.08
33	d3	201	CYC	C1A-C2A-C3A	-3.20	103.24	106.78
33	fA	201	CYC	C2A-C1A-NA	3.20	114.70	110.05
33	II	201	CYC	C2A-C1A-NA	3.20	114.70	110.05
33	d5	201	CYC	O1D-CGD-CBD	3.20	133.36	123.08
42	BD	620	LHG	O7-C7-C8	3.20	118.40	111.50
43	bD	616	BCR	C8-C7-C6	3.20	136.19	127.20
33	fC	201	CYC	O1D-CGD-CBD	3.20	133.36	123.08
33	bK	201	CYC	C2A-C1A-NA	3.20	114.70	110.05
43	bE	616	BCR	C8-C7-C6	3.20	136.19	127.20
33	f3	201	CYC	O1D-CGD-CBD	3.20	133.36	123.08
40	AD	412	LMT	C3'-C4'-C5'	-3.20	103.59	110.93
33	Q4	201	CYC	C2A-C1A-NA	3.20	114.70	110.05
33	dI	201	CYC	C1A-C2A-C3A	-3.20	103.24	106.78
33	k9	201	CYC	CMB-C2B-C1B	3.20	128.16	124.17
38	dD	414	SQD	O7-S-C6	3.20	110.74	106.94
33	h2	201	CYC	C1A-C2A-C3A	-3.20	103.24	106.78
33	jI	201	CYC	C2A-C1A-NA	3.20	114.70	110.05
33	BI	301	CYC	OB-C4B-C3B	-3.20	124.57	128.04
33	f2	201	CYC	C2A-C1A-NA	3.20	114.70	110.05
33	jJ	201	CYC	C2A-C1A-NA	3.20	114.70	110.05
33	IF	201	CYC	CHB-C1B-C2B	3.20	133.28	126.95
33	B4	1002	CYC	CMB-C2B-C1B	3.20	128.16	124.17
33	gH	202	CYC	OB-C4B-C3B	-3.20	124.57	128.04
33	jH	201	CYC	C1A-C2A-C3A	-3.19	103.25	106.78
33	YK	201	CYC	C4D-CHA-C1A	-3.19	124.99	128.81
47	fE	101	HEM	CBA-CAA-C2A	-3.19	107.17	112.62
33	k8	201	CYC	CMB-C2B-C1B	3.19	128.16	124.17
38	d1	414	SQD	O7-S-C6	3.19	110.73	106.94
33	d9	201	CYC	O1D-CGD-CBD	3.19	133.34	123.08
33	f3	201	CYC	C1A-C2A-C3A	-3.19	103.25	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	e5	201	CYC	C1B-NB-C4B	-3.19	106.60	110.67
33	h3	201	CYC	C2A-C1A-NA	3.19	114.69	110.05
45	dE	402	PHO	CMB-C2B-C3B	3.19	130.65	124.68
33	d6	201	CYC	C1A-C2A-C3A	-3.19	103.25	106.78
33	jJ	201	CYC	C1A-C2A-C3A	-3.19	103.25	106.78
33	k2	201	CYC	C1B-NB-C4B	-3.19	106.60	110.67
33	eJ	201	CYC	C1B-NB-C4B	-3.19	106.60	110.67
33	hJ	201	CYC	C2A-C1A-NA	3.19	114.69	110.05
33	dA	201	CYC	O1D-CGD-CBD	3.19	133.34	123.08
33	BC	301	CYC	OB-C4B-C3B	-3.19	124.58	128.04
33	lA	201	CYC	C2A-C1A-NA	3.19	114.69	110.05
33	GG	201	CYC	C2C-C1C-NC	3.19	111.02	108.27
33	dJ	201	CYC	O1D-CGD-CBD	3.19	133.33	123.08
43	ZE	101	BCR	C37-C22-C21	-3.19	118.45	122.92
33	eC	201	CYC	C1B-NB-C4B	-3.19	106.61	110.67
33	dH	201	CYC	O1D-CGD-CBD	3.19	133.33	123.08
33	AG	201	CYC	CBD-CAD-C3D	-3.19	107.17	112.62
42	B1	621	LHG	O7-C7-C8	3.19	118.38	111.50
33	y4	201	CYC	C2A-C1A-NA	3.19	114.69	110.05
33	j5	201	CYC	C1A-C2A-C3A	-3.19	103.25	106.78
33	hI	201	CYC	C2A-C1A-NA	3.19	114.69	110.05
33	d6	201	CYC	O1D-CGD-CBD	3.19	133.33	123.08
33	h6	201	CYC	O1D-CGD-CBD	3.19	133.33	123.08
33	hA	201	CYC	O1D-CGD-CBD	3.19	133.33	123.08
33	fA	201	CYC	C1A-C2A-C3A	-3.19	103.25	106.78
33	GL	201	CYC	C2C-C1C-NC	3.19	111.02	108.27
33	a4	201	CYC	C1B-CHB-C4A	3.19	135.87	128.08
36	b1	609	CLA	CHB-C4A-NA	3.19	128.92	124.51
33	dC	201	CYC	O1D-CGD-CBD	3.19	133.32	123.08
33	j7	201	CYC	C1A-C2A-C3A	-3.19	103.25	106.78
33	d3	201	CYC	O1D-CGD-CBD	3.19	133.32	123.08
45	DE	401	PHO	C16-C15-C13	3.19	126.22	115.92
33	QB	201	CYC	C2A-C1A-NA	3.19	114.69	110.05
33	PB	201	CYC	C1A-C2A-C3A	-3.19	103.25	106.78
33	WL	201	CYC	C1A-C2A-C3A	-3.19	103.25	106.78
33	dC	201	CYC	C1A-C2A-C3A	-3.19	103.25	106.78
33	YK	201	CYC	C2C-C1C-NC	3.19	111.02	108.27
33	s4	201	CYC	C2A-C1A-NA	3.19	114.68	110.05
33	gJ	202	CYC	OB-C4B-C3B	-3.19	124.58	128.04
33	IK	201	CYC	C2A-C1A-NA	3.19	114.68	110.05
33	b8	201	CYC	C1A-C2A-C3A	-3.19	103.26	106.78
33	TL	201	CYC	C4D-CHA-C1A	3.19	132.61	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	d7	201	CYC	O1D-CGD-CBD	3.18	133.31	123.08
38	D1	413	SQD	O7-S-C6	3.18	110.72	106.94
33	l2	201	CYC	C4A-C3A-C2A	-3.18	102.85	106.51
33	WG	201	CYC	C1B-NB-C4B	-3.18	106.61	110.67
33	dI	201	CYC	O1D-CGD-CBD	3.18	133.31	123.08
33	f3	201	CYC	C2A-C1A-NA	3.18	114.68	110.05
33	j3	201	CYC	C2A-C1A-NA	3.18	114.68	110.05
33	6G	201	CYC	C2A-C1A-NA	3.18	114.68	110.05
33	d2	201	CYC	O1D-CGD-CBD	3.18	133.31	123.08
33	bH	201	CYC	O1D-CGD-CBD	3.18	133.31	123.08
33	cI	201	CYC	OB-C4B-C3B	-3.18	124.59	128.04
33	f9	201	CYC	C1A-C2A-C3A	-3.18	103.26	106.78
33	NF	101	CYC	CHB-C4A-C3A	3.18	133.08	124.90
33	w4	201	CYC	C4A-C3A-C2A	-3.18	102.85	106.51
38	dE	414	SQD	O7-S-C6	3.18	110.72	106.94
33	hC	201	CYC	O1D-CGD-CBD	3.18	133.30	123.08
33	h7	201	CYC	O1D-CGD-CBD	3.18	133.30	123.08
47	f1	101	HEM	CBA-CAA-C2A	-3.18	107.19	112.62
33	B2	301	CYC	OB-C4B-C3B	-3.18	124.59	128.04
36	aE	406	CLA	CHB-C4A-NA	3.18	128.91	124.51
33	c2	201	CYC	C1A-C2A-C3A	-3.18	103.26	106.78
33	c3	201	CYC	C1A-C2A-C3A	-3.18	103.26	106.78
33	hC	201	CYC	C2A-C1A-NA	3.18	114.68	110.05
33	1G	201	CYC	C2A-C1A-NA	3.18	114.68	110.05
33	c6	201	CYC	OB-C4B-C3B	-3.18	124.59	128.04
33	b5	201	CYC	O1D-CGD-CBD	3.18	133.30	123.08
33	h6	201	CYC	C2A-C1A-NA	3.18	114.67	110.05
33	hA	201	CYC	C2A-C1A-NA	3.18	114.67	110.05
36	CD	513	CLA	CHB-C4A-NA	3.18	128.91	124.51
36	bE	603	CLA	CHB-C4A-NA	3.18	128.91	124.51
33	k5	201	CYC	CMB-C2B-C1B	3.18	128.14	124.17
33	kI	201	CYC	CMB-C2B-C1B	3.18	128.14	124.17
33	kJ	201	CYC	CMB-C2B-C1B	3.18	128.14	124.17
43	zE	101	BCR	C37-C22-C21	-3.18	118.47	122.92
33	cA	201	CYC	OB-C4B-C3B	-3.18	124.59	128.04
33	k9	201	CYC	C1B-NB-C4B	-3.18	106.62	110.67
33	aB	201	CYC	C1B-CHB-C4A	3.18	135.85	128.08
33	e5	201	CYC	CMB-C2B-C1B	3.18	128.14	124.17
33	bI	201	CYC	O1D-CGD-CBD	3.18	133.29	123.08
33	hI	201	CYC	O1D-CGD-CBD	3.18	133.29	123.08
33	eK	201	CYC	C1B-C2B-C3B	-3.18	104.55	107.87
33	BB	1002	CYC	CMB-C2B-C1B	3.18	128.13	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	JG	201	CYC	C4A-C3A-C2A	-3.18	102.86	106.51
33	eI	201	CYC	C1B-NB-C4B	-3.18	106.62	110.67
33	NK	101	CYC	CHB-C4A-C3A	3.18	133.07	124.90
33	jC	201	CYC	C1A-C2A-C3A	-3.18	103.27	106.78
33	k6	201	CYC	CMB-C2B-C1B	3.18	128.13	124.17
33	eH	201	CYC	C1B-NB-C4B	-3.18	106.62	110.67
33	h5	201	CYC	O1D-CGD-CBD	3.18	133.29	123.08
33	h8	201	CYC	O1D-CGD-CBD	3.18	133.29	123.08
33	hJ	201	CYC	O1D-CGD-CBD	3.18	133.29	123.08
33	C4	1003	CYC	CMB-C2B-C1B	3.18	128.13	124.17
33	e8	201	CYC	CMB-C2B-C1B	3.18	128.13	124.17
33	eI	201	CYC	CMB-C2B-C1B	3.18	128.13	124.17
33	l8	201	CYC	C1A-C2A-C3A	-3.18	103.27	106.78
33	hH	201	CYC	C2A-C1A-NA	3.18	114.67	110.05
33	b9	201	CYC	O1D-CGD-CBD	3.18	133.28	123.08
33	hH	201	CYC	O1D-CGD-CBD	3.18	133.28	123.08
33	lJ	201	CYC	C1A-C2A-C3A	-3.18	103.27	106.78
33	h3	201	CYC	O1D-CGD-CBD	3.18	133.28	123.08
33	IF	201	CYC	C2A-C1A-NA	3.18	114.67	110.05
33	HG	201	CYC	C2C-C1C-NC	3.17	111.01	108.27
33	h7	201	CYC	C2A-C1A-NA	3.17	114.67	110.05
33	hF	201	CYC	C4D-CHA-C1A	-3.17	125.02	128.81
33	W4	201	CYC	CHA-C1A-NA	-3.17	124.42	128.83
33	MG	201	CYC	CAA-C2A-C3A	3.17	133.79	127.88
33	eF	201	CYC	C1B-C2B-C3B	-3.17	104.56	107.87
33	j3	201	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
33	hC	201	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
33	b8	201	CYC	O1D-CGD-CBD	3.17	133.28	123.08
33	b6	201	CYC	O1D-CGD-CBD	3.17	133.28	123.08
33	b7	201	CYC	O1D-CGD-CBD	3.17	133.28	123.08
33	h5	201	CYC	C2A-C1A-NA	3.17	114.67	110.05
33	lL	201	CYC	C2A-C1A-NA	3.17	114.67	110.05
33	b3	201	CYC	O1D-CGD-CBD	3.17	133.27	123.08
33	wB	201	CYC	C4A-C3A-C2A	-3.17	102.86	106.51
33	hK	201	CYC	C4D-CHA-C1A	-3.17	125.02	128.81
33	hK	201	CYC	C2C-C1C-NC	3.17	111.01	108.27
43	zD	101	BCR	C37-C22-C21	-3.17	118.48	122.92
33	e3	201	CYC	C1B-NB-C4B	-3.17	106.63	110.67
33	WG	201	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
36	a1	406	CLA	CHB-C4A-NA	3.17	128.90	124.51
33	kC	201	CYC	CMB-C2B-C1B	3.17	128.13	124.17
33	h9	201	CYC	C1A-C2A-C3A	-3.17	103.27	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	hI	201	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
33	lC	201	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
33	hH	201	CYC	C1A-C2A-C3A	-3.17	103.27	106.78
33	eJ	201	CYC	CMB-C2B-C1B	3.17	128.12	124.17
33	bC	201	CYC	O1D-CGD-CBD	3.17	133.26	123.08
43	ZD	101	BCR	C37-C22-C21	-3.17	118.48	122.92
33	h6	201	CYC	C1A-C2A-C3A	-3.17	103.28	106.78
33	f5	201	CYC	C2A-C1A-NA	3.17	114.66	110.05
33	e2	201	CYC	CMB-C2B-C1B	3.17	128.12	124.17
33	f5	201	CYC	C1A-C2A-C3A	-3.17	103.28	106.78
33	h8	201	CYC	C1A-C2A-C3A	-3.17	103.28	106.78
43	z1	101	BCR	C37-C22-C21	-3.17	118.48	122.92
33	lA	201	CYC	C4A-C3A-C2A	-3.17	102.87	106.51
33	k6	201	CYC	C1B-NB-C4B	-3.17	106.64	110.67
33	e9	201	CYC	C1B-NB-C4B	-3.17	106.64	110.67
33	RG	201	CYC	OB-C4B-C3B	-3.17	124.60	128.04
33	l9	201	CYC	C1A-C2A-C3A	-3.17	103.28	106.78
36	b1	603	CLA	CHB-C4A-NA	3.17	128.89	124.51
36	aD	405	CLA	CHB-C4A-NA	3.17	128.89	124.51
36	aD	406	CLA	CHB-C4A-NA	3.17	128.89	124.51
38	LD	101	SQD	O9-S-C6	3.17	110.70	106.94
33	ML	201	CYC	CAA-C2A-C3A	3.17	133.78	127.88
42	aE	411	LHG	O8-C23-C24	3.17	121.85	111.91
33	h2	201	CYC	O1D-CGD-CBD	3.17	133.25	123.08
33	l5	201	CYC	O1D-CGD-CBD	3.17	133.25	123.08
36	bD	603	CLA	CHB-C4A-NA	3.17	128.89	124.51
33	kA	201	CYC	C1B-NB-C4B	-3.17	106.64	110.67
43	Z1	101	BCR	C37-C22-C21	-3.17	118.49	122.92
33	hF	201	CYC	C2C-C1C-NC	3.17	111.00	108.27
33	e3	201	CYC	CMB-C2B-C1B	3.17	128.12	124.17
33	l8	201	CYC	O1D-CGD-CBD	3.16	133.25	123.08
47	f1	101	HEM	C4D-ND-C1D	3.16	108.34	105.07
33	h3	201	CYC	C1A-C2A-C3A	-3.16	103.28	106.78
36	c1	507	CLA	CMB-C2B-C3B	3.16	130.60	124.68
33	h9	201	CYC	O1D-CGD-CBD	3.16	133.25	123.08
33	bJ	201	CYC	O1D-CGD-CBD	3.16	133.25	123.08
36	cD	509	CLA	C3D-C4D-ND	3.16	115.36	110.24
42	a1	412	LHG	O8-C23-C24	3.16	121.83	111.91
33	h9	201	CYC	C2A-C1A-NA	3.16	114.65	110.05
33	l7	201	CYC	O1D-CGD-CBD	3.16	133.24	123.08
33	eA	201	CYC	C1B-NB-C4B	-3.16	106.64	110.67
42	aD	411	LHG	O8-C23-C24	3.16	121.83	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	cE	509	CLA	C3D-C4D-ND	3.16	115.35	110.24
33	k7	201	CYC	C1B-NB-C4B	-3.16	106.64	110.67
33	l8	201	CYC	C4A-C3A-C2A	-3.16	102.88	106.51
33	qB	201	CYC	CMB-C2B-C1B	3.16	128.11	124.17
33	k8	201	CYC	C1B-NB-C4B	-3.16	106.64	110.67
38	LE	101	SQD	O9-S-C6	3.16	110.70	106.94
33	l7	201	CYC	C1A-C2A-C3A	-3.16	103.28	106.78
33	c9	201	CYC	OB-C4B-C3B	-3.16	124.61	128.04
33	l6	201	CYC	O1D-CGD-CBD	3.16	133.24	123.08
33	C4	1003	CYC	C1B-NB-C4B	-3.16	106.64	110.67
33	h7	201	CYC	C1A-C2A-C3A	-3.16	103.28	106.78
36	CE	513	CLA	CHB-C4A-NA	3.16	128.88	124.51
33	k9	201	CYC	OB-C4B-C3B	-3.16	124.61	128.04
33	2G	101	CYC	C2C-C1C-NC	3.16	111.00	108.27
33	e6	201	CYC	CMB-C2B-C1B	3.16	128.11	124.17
33	jF	201	CYC	CMB-C2B-C1B	3.16	128.11	124.17
47	fD	101	HEM	CBA-CAA-C2A	-3.16	107.23	112.62
33	l6	201	CYC	C4A-C3A-C2A	-3.16	102.88	106.51
33	lH	201	CYC	O1D-CGD-CBD	3.16	133.23	123.08
33	l3	201	CYC	C1A-C2A-C3A	-3.16	103.29	106.78
33	P4	201	CYC	C1A-C2A-C3A	-3.16	103.29	106.78
33	j7	201	CYC	O1D-CGD-CBD	3.16	133.23	123.08
33	CB	1003	CYC	C2A-C1A-NA	3.16	114.64	110.05
33	c5	201	CYC	OB-C4B-C3B	-3.16	124.61	128.04
33	cH	201	CYC	OB-C4B-C3B	-3.16	124.61	128.04
33	l3	201	CYC	O1D-CGD-CBD	3.16	133.23	123.08
33	VG	201	CYC	OC-C1C-C2C	-3.16	123.66	126.17
33	e2	201	CYC	C1B-NB-C4B	-3.16	106.65	110.67
33	e8	201	CYC	C1B-NB-C4B	-3.16	106.65	110.67
43	c1	519	BCR	C21-C20-C19	-3.16	113.36	123.22
38	L1	101	SQD	O9-S-C6	3.16	110.69	106.94
33	YF	201	CYC	C4D-CHA-C1A	-3.16	125.04	128.81
33	fF	201	CYC	CHB-C1B-NB	-3.16	119.28	126.06
33	eH	201	CYC	CMB-C2B-C1B	3.16	128.11	124.17
33	c2	201	CYC	OB-C4B-C3B	-3.16	124.61	128.04
33	7L	201	CYC	C2C-C1C-NC	3.16	110.99	108.27
33	ML	201	CYC	CAD-CBD-CGD	-3.16	104.91	113.76
36	cD	507	CLA	CMB-C2B-C3B	3.16	130.58	124.68
33	l9	201	CYC	O1D-CGD-CBD	3.16	133.22	123.08
33	fK	201	CYC	CHB-C1B-NB	-3.16	119.28	126.06
43	cE	519	BCR	C21-C20-C19	-3.16	113.37	123.22
33	kH	201	CYC	C1B-NB-C4B	-3.16	106.65	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	B1	622	SQD	O8-S-O7	3.16	118.98	111.27
36	c1	509	CLA	C3D-C4D-ND	3.16	115.34	110.24
33	lJ	201	CYC	O1D-CGD-CBD	3.16	133.22	123.08
36	C1	513	CLA	CHB-C4A-NA	3.16	128.88	124.51
33	lA	201	CYC	O1D-CGD-CBD	3.15	133.22	123.08
33	e7	201	CYC	CMB-C2B-C1B	3.15	128.11	124.17
33	j9	201	CYC	O1D-CGD-CBD	3.15	133.22	123.08
44	C1	518	DGD	C4E-C3E-C2E	3.15	116.33	110.82
33	JL	201	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
36	CD	503	CLA	CHB-C4A-NA	3.15	128.87	124.51
47	fE	101	HEM	C4D-ND-C1D	3.15	108.33	105.07
33	lI	201	CYC	O1D-CGD-CBD	3.15	133.21	123.08
33	dF	201	CYC	C4D-CHA-C1A	-3.15	125.04	128.81
33	lJ	201	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
33	l2	201	CYC	O1D-CGD-CBD	3.15	133.21	123.08
43	cD	519	BCR	C21-C20-C19	-3.15	113.38	123.22
33	MG	201	CYC	CAD-CBD-CGD	-3.15	104.92	113.76
36	c1	506	CLA	O2D-CGD-O1D	-3.15	117.67	123.84
33	lH	201	CYC	C1A-C2A-C3A	-3.15	103.29	106.78
38	BD	621	SQD	O8-S-O7	3.15	118.97	111.27
33	b8	201	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
33	e6	201	CYC	C1B-NB-C4B	-3.15	106.66	110.67
33	O4	201	CYC	CMB-C2B-C1B	3.15	128.10	124.17
33	eC	201	CYC	CMB-C2B-C1B	3.15	128.10	124.17
33	bJ	201	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
33	c3	201	CYC	OB-C4B-C3B	-3.15	124.62	128.04
36	iD	101	CLA	O2D-CGD-O1D	-3.15	117.68	123.84
33	j8	201	CYC	O1D-CGD-CBD	3.15	133.20	123.08
33	lC	201	CYC	O1D-CGD-CBD	3.15	133.20	123.08
33	WL	201	CYC	C1B-NB-C4B	-3.15	106.66	110.67
33	l9	201	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
33	jJ	201	CYC	O1D-CGD-CBD	3.15	133.20	123.08
33	k3	201	CYC	C1B-NB-C4B	-3.15	106.66	110.67
33	B4	1002	CYC	C1B-NB-C4B	-3.15	106.66	110.67
33	e7	201	CYC	C1B-NB-C4B	-3.15	106.66	110.67
33	l6	201	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
36	C1	511	CLA	CHB-C4A-NA	3.15	128.87	124.51
33	B6	301	CYC	OB-C4B-C3B	-3.15	124.62	128.04
33	lI	201	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
33	kK	201	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
33	l3	201	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
33	HL	201	CYC	C2C-C1C-NC	3.15	110.99	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	kA	201	CYC	OB-C4B-C3B	-3.15	124.62	128.04
36	CE	511	CLA	CHB-C4A-NA	3.15	128.87	124.51
33	jH	201	CYC	O1D-CGD-CBD	3.15	133.19	123.08
33	jK	201	CYC	CMB-C2B-C1B	3.15	128.10	124.17
44	CD	518	DGD	C4E-C3E-C2E	3.15	116.32	110.82
33	h5	201	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
33	l7	201	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
33	j3	201	CYC	O1D-CGD-CBD	3.15	133.19	123.08
33	k5	201	CYC	OB-C4B-C3B	-3.15	124.62	128.04
33	LG	201	CYC	CAD-CBD-CGD	-3.15	104.94	113.76
33	q4	201	CYC	CMB-C2B-C1B	3.15	128.10	124.17
33	lC	201	CYC	C4A-C3A-C2A	-3.15	102.89	106.51
33	kI	201	CYC	OB-C4B-C3B	-3.15	124.63	128.04
42	lD	101	LHG	O7-C7-C8	3.15	118.28	111.50
33	rB	201	CYC	C1A-C2A-C3A	-3.15	103.30	106.78
33	lH	201	CYC	C4A-C3A-C2A	-3.15	102.90	106.51
33	j6	201	CYC	O1D-CGD-CBD	3.15	133.19	123.08
39	A1	408	LMG	O7-C10-C11	3.15	118.28	111.50
33	jI	201	CYC	O1D-CGD-CBD	3.15	133.19	123.08
36	C1	503	CLA	CHB-C4A-NA	3.14	128.86	124.51
33	dJ	201	CYC	C4A-C3A-C2A	-3.14	102.90	106.51
44	CE	518	DGD	C4E-C3E-C2E	3.14	116.31	110.82
47	fD	101	HEM	C4D-ND-C1D	3.14	108.32	105.07
33	jA	201	CYC	O1D-CGD-CBD	3.14	133.18	123.08
33	k5	201	CYC	C1B-NB-C4B	-3.14	106.67	110.67
33	j5	201	CYC	O1D-CGD-CBD	3.14	133.18	123.08
33	cJ	201	CYC	OB-C4B-C3B	-3.14	124.63	128.04
33	kI	201	CYC	C1B-NB-C4B	-3.14	106.67	110.67
33	eA	201	CYC	CMB-C2B-C1B	3.14	128.09	124.17
33	ML	201	CYC	CHB-C4A-C3A	3.14	132.98	124.90
33	C4	1003	CYC	C2A-C1A-NA	3.14	114.62	110.05
36	aE	405	CLA	CHB-C4A-NA	3.14	128.86	124.51
33	dJ	201	CYC	CAA-C2A-C1A	3.14	130.57	125.01
33	LL	201	CYC	CAD-CBD-CGD	-3.14	104.95	113.76
33	d2	201	CYC	CAA-C2A-C1A	3.14	130.56	125.01
45	D1	402	PHO	C4A-C3A-C2A	-3.14	99.85	102.84
38	BE	621	SQD	O8-S-O7	3.14	118.95	111.27
33	k2	201	CYC	OB-C4B-C3B	-3.14	124.63	128.04
47	EE	101	HEM	C4D-ND-C1D	3.14	108.32	105.07
33	e9	201	CYC	CMB-C2B-C1B	3.14	128.09	124.17
33	RL	201	CYC	C1B-C2B-C3B	-3.14	104.59	107.87
33	jC	201	CYC	O1D-CGD-CBD	3.14	133.16	123.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	d9	201	CYC	CAA-C2A-C1A	3.14	130.56	125.01
47	ED	101	HEM	C4D-ND-C1D	3.14	108.31	105.07
33	j2	201	CYC	O1D-CGD-CBD	3.14	133.16	123.08
33	c7	201	CYC	OB-C4B-C3B	-3.14	124.64	128.04
33	bF	201	CYC	CAC-C3C-C4C	3.14	120.73	112.67
33	b3	201	CYC	C4A-C3A-C2A	-3.14	102.91	106.51
39	AD	408	LMG	O7-C10-C11	3.14	118.26	111.50
33	dC	201	CYC	C4A-C3A-C2A	-3.13	102.91	106.51
33	d9	201	CYC	C4A-C3A-C2A	-3.13	102.91	106.51
36	CE	503	CLA	CHB-C4A-NA	3.13	128.84	124.51
33	f6	201	CYC	C2C-C1C-NC	3.13	110.97	108.27
43	bE	618	BCR	C24-C23-C22	-3.13	121.50	126.23
33	kC	201	CYC	C1B-NB-C4B	-3.13	106.68	110.67
43	ZE	102	BCR	C20-C21-C22	-3.13	122.84	127.31
33	II	201	CYC	C4A-C3A-C2A	-3.13	102.91	106.51
42	IE	101	LHG	O7-C7-C8	3.13	118.25	111.50
33	IA	201	CYC	C1A-C2A-C3A	-3.13	103.32	106.78
37	A1	406	PL9	C35-C34-C36	3.13	120.54	115.27
33	o4	201	CYC	C2C-C1C-NC	3.13	110.97	108.27
33	oB	201	CYC	C2C-C1C-NC	3.13	110.97	108.27
33	7G	201	CYC	C2C-C1C-NC	3.13	110.97	108.27
33	kF	201	CYC	CHB-C4A-NA	-3.13	118.38	124.93
36	h1	101	CLA	C3B-C4B-NB	-3.13	105.16	109.21
33	d8	201	CYC	CAA-C2A-C1A	3.13	130.55	125.01
33	kF	201	CYC	C1A-C2A-C3A	-3.13	103.32	106.78
33	BB	1002	CYC	C1B-NB-C4B	-3.13	106.68	110.67
33	fA	201	CYC	C2C-C1C-NC	3.13	110.97	108.27
33	kH	201	CYC	OB-C4B-C3B	-3.13	124.64	128.04
36	BE	611	CLA	CHD-C1D-ND	-3.13	121.58	124.45
33	bK	201	CYC	CAC-C3C-C4C	3.13	120.71	112.67
33	IG	201	CYC	C1A-C2A-C3A	-3.13	103.32	106.78
33	iC	202	CYC	CMB-C2B-C1B	3.13	128.07	124.17
33	aB	201	CYC	CAB-C3B-C2B	3.13	132.88	127.53
36	iE	101	CLA	O2D-CGD-O1D	-3.13	117.72	123.84
39	AE	408	LMG	O7-C10-C11	3.13	118.24	111.50
36	CD	511	CLA	CHB-C4A-NA	3.13	128.84	124.51
33	b2	201	CYC	C4A-C3A-C2A	-3.13	102.92	106.51
33	bH	201	CYC	C4A-C3A-C2A	-3.13	102.92	106.51
33	MG	201	CYC	CHB-C4A-C3A	3.13	132.94	124.90
37	A1	406	PL9	C25-C24-C26	3.13	120.53	115.27
36	cE	507	CLA	CMB-C2B-C3B	3.13	130.53	124.68
33	2L	101	CYC	C2C-C1C-NC	3.13	110.97	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	iJ	202	CYC	CMB-C2B-C1B	3.13	128.07	124.17
33	AG	201	CYC	CMB-C2B-C1B	3.13	128.07	124.17
33	CB	1003	CYC	C1B-NB-C4B	-3.13	106.69	110.67
33	c2	201	CYC	C1B-NB-C4B	-3.13	106.69	110.67
33	d6	201	CYC	C4A-C3A-C2A	-3.12	102.92	106.51
33	b7	201	CYC	C4A-C3A-C2A	-3.12	102.92	106.51
33	kK	201	CYC	CHB-C4A-NA	-3.12	118.40	124.93
33	dI	201	CYC	C4A-C3A-C2A	-3.12	102.92	106.51
33	d6	201	CYC	CAA-C2A-C1A	3.12	130.53	125.01
33	i5	202	CYC	CMB-C2B-C1B	3.12	128.07	124.17
33	IL	201	CYC	C1A-C2A-C3A	-3.12	103.33	106.78
43	bE	618	BCR	C15-C14-C13	-3.12	122.86	127.31
33	fC	201	CYC	C2C-C1C-NC	3.12	110.96	108.27
33	kC	201	CYC	OB-C4B-C3B	-3.12	124.65	128.04
33	kJ	201	CYC	OB-C4B-C3B	-3.12	124.65	128.04
33	r4	201	CYC	C1A-C2A-C3A	-3.12	103.33	106.78
36	hD	101	CLA	C3B-C4B-NB	-3.12	105.17	109.21
33	PB	201	CYC	C2A-C1A-NA	3.12	114.59	110.05
37	AD	406	PL9	C35-C34-C36	3.12	120.52	115.27
37	d1	408	PL9	C30-C29-C31	3.12	120.52	115.27
33	bA	201	CYC	C4A-C3A-C2A	-3.12	102.92	106.51
33	dH	201	CYC	CAA-C2A-C1A	3.12	130.53	125.01
33	dI	201	CYC	CAA-C2A-C1A	3.12	130.53	125.01
33	B4	1002	CYC	C2A-C1A-NA	3.12	114.59	110.05
33	fI	201	CYC	C2C-C1C-NC	3.12	110.96	108.27
36	CE	508	CLA	CMB-C2B-C3B	3.12	130.51	124.68
33	c9	201	CYC	C1B-NB-C4B	-3.12	106.70	110.67
33	cI	201	CYC	C1B-NB-C4B	-3.12	106.70	110.67
33	RG	201	CYC	C1B-C2B-C3B	-3.12	104.62	107.87
33	dA	201	CYC	CAA-C2A-C1A	3.12	130.53	125.01
33	OB	201	CYC	CMB-C2B-C1B	3.12	128.06	124.17
33	c3	201	CYC	C1B-NB-C4B	-3.12	106.70	110.67
33	d3	201	CYC	CAA-C2A-C1A	3.12	130.52	125.01
42	l1	101	LHG	O7-C7-C8	3.12	118.22	111.50
33	bI	201	CYC	C2C-C1C-NC	3.12	110.96	108.27
36	b1	609	CLA	C2D-C1D-ND	-3.12	107.81	110.10
37	AD	406	PL9	C25-C24-C26	3.12	120.51	115.27
43	CE	520	BCR	C24-C23-C22	-3.11	121.53	126.23
33	V4	201	CYC	CMD-C2D-C3D	-3.11	119.07	124.94
33	a4	201	CYC	CAB-C3B-C2B	3.11	132.85	127.53
33	b9	201	CYC	C4A-C3A-C2A	-3.11	102.93	106.51
33	d3	201	CYC	C4A-C3A-C2A	-3.11	102.93	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	l2	201	CYC	C1A-C2A-C3A	-3.11	103.34	106.78
47	E1	101	HEM	CBA-CAA-C2A	-3.11	107.31	112.62
36	bE	612	CLA	CHD-C1D-ND	-3.11	121.59	124.45
36	CE	514	CLA	CMB-C2B-C1B	-3.11	123.68	128.46
43	bD	618	BCR	C24-C23-C22	-3.11	121.53	126.23
33	b5	201	CYC	C4A-C3A-C2A	-3.11	102.94	106.51
47	E1	101	HEM	C4D-ND-C1D	3.11	108.29	105.07
37	AE	406	PL9	C25-C24-C26	3.11	120.50	115.27
33	VB	201	CYC	CMD-C2D-C3D	-3.11	119.08	124.94
33	W4	201	CYC	CBC-CAC-C3C	3.11	120.39	113.47
33	dC	201	CYC	CAA-C2A-C1A	3.11	130.51	125.01
33	d7	201	CYC	C4A-C3A-C2A	-3.11	102.94	106.51
33	2G	101	CYC	C1B-CHB-C4A	3.11	135.68	128.08
33	cC	201	CYC	C1B-NB-C4B	-3.11	106.71	110.67
33	fJ	201	CYC	C2C-C1C-NC	3.11	110.95	108.27
36	CD	514	CLA	CMB-C2B-C1B	-3.11	123.69	128.46
47	ED	101	HEM	CBA-CAA-C2A	-3.11	107.31	112.62
33	d7	201	CYC	CAA-C2A-C1A	3.11	130.51	125.01
36	bE	609	CLA	C2D-C1D-ND	-3.11	107.81	110.10
33	k3	201	CYC	OB-C4B-C3B	-3.11	124.67	128.04
43	kE	102	BCR	C20-C21-C22	-3.11	122.87	127.31
36	b1	612	CLA	CHD-C1D-ND	-3.11	121.60	124.45
33	i3	202	CYC	CMB-C2B-C1B	3.11	128.05	124.17
43	Z1	102	BCR	C20-C21-C22	-3.11	122.88	127.31
33	RG	201	CYC	OC-C1C-C2C	-3.11	123.70	126.17
47	EE	101	HEM	CBA-CAA-C2A	-3.11	107.32	112.62
33	c5	201	CYC	C1B-NB-C4B	-3.11	106.71	110.67
33	AL	201	CYC	CMB-C2B-C1B	3.11	128.04	124.17
36	c1	509	CLA	CHB-C4A-NA	3.11	128.81	124.51
36	CD	508	CLA	CMB-C2B-C3B	3.11	130.49	124.68
36	C1	508	CLA	CMB-C2B-C3B	3.11	130.49	124.68
33	cC	201	CYC	OB-C4B-C3B	-3.11	124.67	128.04
36	hE	101	CLA	C3B-C4B-NB	-3.11	105.19	109.21
33	cH	201	CYC	C1B-NB-C4B	-3.11	106.72	110.67
33	kJ	201	CYC	C1B-NB-C4B	-3.11	106.72	110.67
36	cE	509	CLA	CHB-C4A-NA	3.11	128.81	124.51
33	l5	201	CYC	C1A-C2A-C3A	-3.11	103.35	106.78
33	k7	201	CYC	OB-C4B-C3B	-3.10	124.67	128.04
33	dH	201	CYC	C4A-C3A-C2A	-3.10	102.94	106.51
33	VB	201	CYC	CMA-C3A-C4A	3.10	129.84	125.06
33	cA	201	CYC	C1B-NB-C4B	-3.10	106.72	110.67
36	C1	514	CLA	CMB-C2B-C1B	-3.10	123.69	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	bI	201	CYC	C4A-C3A-C2A	-3.10	102.94	106.51
33	BB	1002	CYC	C2A-C1A-NA	3.10	114.56	110.05
33	iA	202	CYC	CMB-C2B-C1B	3.10	128.04	124.17
33	P4	201	CYC	C2A-C1A-NA	3.10	114.56	110.05
37	dD	408	PL9	C30-C29-C31	3.10	120.49	115.27
33	bC	201	CYC	C4A-C3A-C2A	-3.10	102.94	106.51
43	b1	618	BCR	C24-C23-C22	-3.10	121.55	126.23
33	c8	201	CYC	OB-C4B-C3B	-3.10	124.67	128.04
43	CD	521	BCR	C20-C21-C22	-3.10	122.88	127.31
43	kD	102	BCR	C24-C23-C22	-3.10	121.55	126.23
43	kD	102	BCR	C20-C21-C22	-3.10	122.88	127.31
33	i7	202	CYC	CMB-C2B-C1B	3.10	128.04	124.17
33	2L	101	CYC	C1B-CHB-C4A	3.10	135.66	128.08
33	iH	202	CYC	CMB-C2B-C1B	3.10	128.04	124.17
33	cJ	201	CYC	C1B-NB-C4B	-3.10	106.72	110.67
33	kC	201	CYC	CAD-CBD-CGD	-3.10	105.07	113.76
43	ZE	102	BCR	C24-C23-C22	-3.10	121.55	126.23
36	bD	612	CLA	CHD-C1D-ND	-3.10	121.61	124.45
33	dK	201	CYC	C4D-CHA-C1A	-3.10	125.11	128.81
33	i8	202	CYC	CMB-C2B-C1B	3.10	128.04	124.17
33	dA	201	CYC	C4A-C3A-C2A	-3.10	102.95	106.51
33	eK	201	CYC	C2B-C1B-NB	3.10	111.52	106.99
43	C1	520	BCR	C24-C23-C22	-3.10	121.55	126.23
37	dE	408	PL9	C30-C29-C31	3.10	120.48	115.27
33	k6	201	CYC	CAD-CBD-CGD	-3.10	105.07	113.76
33	b2	201	CYC	C2C-C1C-NC	3.10	110.94	108.27
33	oB	201	CYC	C2A-C1A-NA	3.10	114.55	110.05
33	bC	201	CYC	C2C-C1C-NC	3.10	110.94	108.27
36	B1	602	CLA	CHD-C1D-ND	-3.10	121.61	124.45
33	cJ	201	CYC	CMB-C2B-C1B	3.10	128.03	124.17
36	bD	609	CLA	C2D-C1D-ND	-3.10	107.82	110.10
33	k9	201	CYC	CAD-CBD-CGD	-3.10	105.08	113.76
33	fH	201	CYC	C2C-C1C-NC	3.09	110.94	108.27
33	c5	201	CYC	CMB-C2B-C1B	3.09	128.03	124.17
43	BD	617	BCR	C24-C23-C22	-3.09	121.56	126.23
36	B1	608	CLA	CHB-C4A-NA	3.09	128.79	124.51
36	CE	505	CLA	CMB-C2B-C1B	-3.09	123.71	128.46
33	d2	201	CYC	C4A-C3A-C2A	-3.09	102.95	106.51
33	b4	101	CYC	C4A-C3A-C2A	-3.09	102.95	106.51
36	BD	607	CLA	C2D-C1D-ND	-3.09	107.82	110.10
36	cD	509	CLA	CHB-C4A-NA	3.09	128.79	124.51
36	c1	504	CLA	CMB-C2B-C3B	3.09	130.47	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	HE	101	CLA	C3B-C4B-NB	-3.09	105.21	109.21
33	c7	201	CYC	C1B-NB-C4B	-3.09	106.73	110.67
33	k5	201	CYC	CAD-CBD-CGD	-3.09	105.09	113.76
33	h2	201	CYC	CAA-C2A-C1A	3.09	130.48	125.01
33	d5	201	CYC	CAA-C2A-C1A	3.09	130.48	125.01
37	DE	408	PL9	C30-C29-C31	3.09	120.47	115.27
33	f7	201	CYC	CAA-C2A-C1A	3.09	130.48	125.01
33	kA	201	CYC	CAD-CBD-CGD	-3.09	105.09	113.76
43	b1	618	BCR	C15-C14-C13	-3.09	122.90	127.31
33	l8	201	CYC	CAA-C2A-C1A	3.09	130.48	125.01
36	B1	607	CLA	C2D-C1D-ND	-3.09	107.83	110.10
33	V4	201	CYC	CMA-C3A-C4A	3.09	129.82	125.06
33	d8	201	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
36	BD	608	CLA	CHB-C4A-NA	3.09	128.79	124.51
36	d1	403	CLA	CHB-C4A-NA	3.09	128.79	124.51
43	BE	617	BCR	C24-C23-C22	-3.09	121.56	126.23
33	k8	201	CYC	CAD-CBD-CGD	-3.09	105.09	113.76
33	c6	201	CYC	C1B-NB-C4B	-3.09	106.73	110.67
33	cC	201	CYC	CMB-C2B-C1B	3.09	128.03	124.17
43	CD	520	BCR	C24-C23-C22	-3.09	121.57	126.23
33	3K	101	CYC	CHB-C1B-NB	-3.09	119.43	126.06
33	b6	201	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
33	hC	201	CYC	C2C-C1C-NC	3.09	110.94	108.27
33	bF	201	CYC	C1A-C2A-C3A	-3.09	103.36	106.78
33	k7	201	CYC	CAD-CBD-CGD	-3.09	105.10	113.76
33	fA	201	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
33	XF	201	CYC	OB-C4B-NB	-3.09	117.90	125.08
43	CD	521	BCR	C24-C23-C22	-3.09	121.57	126.23
33	kH	201	CYC	CAD-CBD-CGD	-3.09	105.10	113.76
33	iI	202	CYC	CMB-C2B-C1B	3.09	128.02	124.17
33	kJ	201	CYC	CAD-CBD-CGD	-3.09	105.10	113.76
36	cD	505	CLA	CMB-C2B-C3B	3.09	130.45	124.68
33	eF	201	CYC	C2B-C1B-NB	3.09	111.51	106.99
33	i8	202	CYC	CAD-CBD-CGD	-3.09	105.11	113.76
37	aE	408	PL9	C25-C24-C23	-3.09	115.76	123.68
33	WB	201	CYC	CBC-CAC-C3C	3.09	120.34	113.47
33	h8	201	CYC	C4A-C3A-C2A	-3.09	102.96	106.51
36	dD	403	CLA	CHB-C4A-NA	3.09	128.78	124.51
33	d8	201	CYC	C2C-C1C-NC	3.09	110.93	108.27
33	i7	202	CYC	CAD-CBD-CGD	-3.09	105.11	113.76
33	zB	201	CYC	OC-C1C-C2C	-3.09	123.72	126.17
33	bB	101	CYC	C4A-C3A-C2A	-3.08	102.97	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	b5	201	CYC	C2C-C1C-NC	3.08	110.93	108.27
33	bH	201	CYC	C2C-C1C-NC	3.08	110.93	108.27
43	bD	618	BCR	C15-C14-C13	-3.08	122.91	127.31
36	HD	101	CLA	C3B-C4B-NB	-3.08	105.22	109.21
33	j7	201	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
33	l3	201	CYC	CAA-C2A-C1A	3.08	130.46	125.01
33	lJ	201	CYC	CAA-C2A-C1A	3.08	130.46	125.01
37	AE	406	PL9	C35-C34-C36	3.08	120.46	115.27
45	DE	403	PHO	CMB-C2B-C3B	3.08	130.45	124.68
43	B1	617	BCR	C24-C23-C22	-3.08	121.58	126.23
33	jF	201	CYC	C2A-C1A-NA	3.08	114.53	110.05
33	kI	201	CYC	CAD-CBD-CGD	-3.08	105.12	113.76
33	lC	201	CYC	CAA-C2A-C1A	3.08	130.46	125.01
33	c6	201	CYC	CMB-C2B-C1B	3.08	128.02	124.17
36	BD	611	CLA	CHD-C1D-ND	-3.08	121.62	124.45
33	k3	201	CYC	CAD-CBD-CGD	-3.08	105.12	113.76
33	iA	202	CYC	CAD-CBD-CGD	-3.08	105.12	113.76
33	d5	201	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
33	f3	201	CYC	C2C-C1C-NC	3.08	110.93	108.27
33	b9	201	CYC	C2C-C1C-NC	3.08	110.93	108.27
37	DD	408	PL9	C30-C29-C31	3.08	120.45	115.27
33	i2	202	CYC	CAD-CBD-CGD	-3.08	105.12	113.76
33	j3	201	CYC	C4A-C3A-C2A	-3.08	102.97	106.51
33	BC	301	CYC	CMB-C2B-C1B	3.08	128.01	124.17
33	i6	202	CYC	CAD-CBD-CGD	-3.08	105.12	113.76
33	l7	201	CYC	CAA-C2A-C1A	3.08	130.46	125.01
36	B1	611	CLA	CHD-C1D-ND	-3.08	121.62	124.45
33	3F	101	CYC	CHB-C1B-NB	-3.08	119.44	126.06
37	a1	409	PL9	C25-C24-C23	-3.08	115.78	123.68
33	i9	202	CYC	CAD-CBD-CGD	-3.08	105.12	113.76
33	l9	201	CYC	CAA-C2A-C1A	3.08	130.46	125.01
37	D1	407	PL9	C30-C29-C31	3.08	120.45	115.27
33	b7	201	CYC	C2C-C1C-NC	3.08	110.93	108.27
33	iH	202	CYC	CAD-CBD-CGD	-3.08	105.13	113.76
33	iC	202	CYC	CAD-CBD-CGD	-3.08	105.13	113.76
36	c1	509	CLA	O2D-CGD-O1D	-3.08	117.82	123.84
33	c2	201	CYC	CMB-C2B-C1B	3.08	128.01	124.17
43	Z1	102	BCR	C24-C23-C22	-3.08	121.58	126.23
33	d7	201	CYC	C2C-C1C-NC	3.08	110.93	108.27
33	i6	202	CYC	CMB-C2B-C1B	3.08	128.01	124.17
33	PG	201	CYC	C1A-C2A-C3A	-3.08	103.38	106.78
43	iD	102	BCR	C23-C24-C25	3.08	135.85	127.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	CD	505	CLA	CMB-C2B-C1B	-3.08	123.73	128.46
33	iI	202	CYC	CAD-CBD-CGD	-3.08	105.13	113.76
33	RB	201	CYC	C1A-C2A-C3A	-3.08	103.38	106.78
33	h8	201	CYC	CAA-C2A-C1A	3.08	130.45	125.01
33	f9	201	CYC	C4A-C3A-C2A	-3.08	102.98	106.51
33	c9	201	CYC	CMB-C2B-C1B	3.08	128.01	124.17
33	cI	201	CYC	CMB-C2B-C1B	3.08	128.01	124.17
33	k6	201	CYC	OB-C4B-C3B	-3.08	124.70	128.04
33	k8	201	CYC	OB-C4B-C3B	-3.08	124.70	128.04
43	B1	615	BCR	C15-C16-C17	-3.07	117.17	123.47
33	i2	202	CYC	CMB-C2B-C1B	3.07	128.01	124.17
33	cC	201	CYC	CAD-CBD-CGD	-3.07	105.14	113.76
33	f2	201	CYC	CAA-C2A-C1A	3.07	130.45	125.01
36	cE	509	CLA	O2D-CGD-O1D	-3.07	117.83	123.84
37	aD	408	PL9	C25-C24-C23	-3.07	115.79	123.68
33	CB	1001	CYC	CBA-CAA-C2A	3.07	121.17	112.63
33	f8	201	CYC	CAA-C2A-C1A	3.07	130.45	125.01
33	hA	201	CYC	CAA-C2A-C1A	3.07	130.45	125.01
33	B7	301	CYC	CAD-CBD-CGD	-3.07	105.14	113.76
33	o4	201	CYC	C2A-C1A-NA	3.07	114.52	110.05
33	PL	201	CYC	C1A-C2A-C3A	-3.07	103.38	106.78
33	f2	201	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
36	cD	509	CLA	O2D-CGD-O1D	-3.07	117.83	123.84
33	c8	201	CYC	C1B-NB-C4B	-3.07	106.76	110.67
33	i3	202	CYC	CAD-CBD-CGD	-3.07	105.14	113.76
33	h9	201	CYC	CAA-C2A-C1A	3.07	130.44	125.01
33	c8	201	CYC	CMB-C2B-C1B	3.07	128.00	124.17
43	iE	102	BCR	C10-C11-C12	-3.07	113.63	123.22
33	k2	201	CYC	CAD-CBD-CGD	-3.07	105.15	113.76
36	bD	610	CLA	CHB-C4A-NA	3.07	128.76	124.51
33	fA	201	CYC	CAA-C2A-C1A	3.07	130.44	125.01
33	fI	201	CYC	CAA-C2A-C1A	3.07	130.44	125.01
33	NK	101	CYC	CHD-C4C-NC	3.07	128.86	125.20
43	kE	102	BCR	C24-C23-C22	-3.07	121.59	126.23
33	B6	301	CYC	CAD-CBD-CGD	-3.07	105.15	113.76
33	IH	201	CYC	CAA-C2A-C1A	3.07	130.44	125.01
33	i5	202	CYC	CAD-CBD-CGD	-3.07	105.15	113.76
33	iJ	202	CYC	CAD-CBD-CGD	-3.07	105.15	113.76
33	f5	201	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
33	jC	201	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
43	BE	615	BCR	C24-C23-C22	-3.07	121.59	126.23
36	cE	505	CLA	CMB-C2B-C3B	3.07	130.42	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	BA	301	CYC	CAD-CBD-CGD	-3.07	105.15	113.76
33	cH	201	CYC	CMB-C2B-C1B	3.07	128.00	124.17
33	l5	201	CYC	CAA-C2A-C1A	3.07	130.44	125.01
33	hI	201	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
36	bE	610	CLA	CHB-C4A-NA	3.07	128.76	124.51
33	bI	201	CYC	CAA-C2A-C1A	3.07	130.44	125.01
33	h8	201	CYC	C2C-C1C-NC	3.07	110.92	108.27
33	f9	201	CYC	C2C-C1C-NC	3.07	110.92	108.27
33	bA	201	CYC	C2C-C1C-NC	3.07	110.92	108.27
44	hE	104	DGD	O1G-C1A-C2A	3.07	121.54	111.91
33	fJ	201	CYC	C4A-C3A-C2A	-3.07	102.98	106.51
33	R4	201	CYC	C1A-C2A-C3A	-3.07	103.39	106.78
33	OL	201	CYC	C2A-C1A-NA	3.07	114.51	110.05
45	D1	402	PHO	CMB-C2B-C3B	3.07	130.42	124.68
33	g5	202	CYC	CAD-CBD-CGD	-3.07	105.16	113.76
33	c6	201	CYC	CAD-CBD-CGD	-3.07	105.16	113.76
33	c3	201	CYC	CMB-C2B-C1B	3.07	128.00	124.17
33	i9	202	CYC	CMB-C2B-C1B	3.07	128.00	124.17
33	7L	201	CYC	C1B-C2B-C3B	-3.07	104.67	107.87
33	C4	1001	CYC	CBA-CAA-C2A	3.07	121.15	112.63
33	II	201	CYC	CAA-C2A-C1A	3.07	130.44	125.01
33	4L	201	CYC	CHD-C4C-NC	3.07	128.85	125.20
33	eC	201	CYC	CAD-CBD-CGD	-3.07	105.16	113.76
33	g8	202	CYC	CAD-CBD-CGD	-3.07	105.16	113.76
33	o4	201	CYC	C1B-NB-C4B	-3.07	106.76	110.67
33	h9	201	CYC	C4A-C3A-C2A	-3.07	102.99	106.51
33	IL	201	CYC	C2C-C1C-NC	3.07	110.92	108.27
33	e6	201	CYC	CAD-CBD-CGD	-3.07	105.16	113.76
33	oB	201	CYC	C1B-NB-C4B	-3.07	106.76	110.67
43	i1	101	BCR	C23-C24-C25	3.07	135.81	127.20
43	iE	102	BCR	C23-C24-C25	3.07	135.81	127.20
33	B3	301	CYC	CAD-CBD-CGD	-3.07	105.16	113.76
33	dF	201	CYC	O2A-CGA-CBA	3.07	123.88	114.03
43	B1	617	BCR	C15-C14-C13	-3.07	122.93	127.31
33	B6	301	CYC	CMB-C2B-C1B	3.07	128.00	124.17
33	fJ	201	CYC	CAA-C2A-C1A	3.07	130.43	125.01
33	5L	201	CYC	CBD-CAD-C3D	-3.07	107.39	112.62
36	C1	505	CLA	CMB-C2B-C1B	-3.07	123.75	128.46
33	j9	201	CYC	C4A-C3A-C2A	-3.07	102.99	106.51
33	gH	202	CYC	CAD-CBD-CGD	-3.07	105.17	113.76
33	l6	201	CYC	CAA-C2A-C1A	3.06	130.43	125.01
33	hH	201	CYC	CAA-C2A-C1A	3.06	130.43	125.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	b6	201	CYC	C2C-C1C-NC	3.06	110.92	108.27
43	hE	105	BCR	C39-C30-C29	3.06	121.16	108.91
33	lA	201	CYC	CAA-C2A-C1A	3.06	130.43	125.01
33	4G	201	CYC	CHD-C4C-NC	3.06	128.85	125.20
33	TG	201	CYC	CMB-C2B-C1B	3.06	127.99	124.17
33	l5	201	CYC	C2C-C1C-NC	3.06	110.91	108.27
43	iD	102	BCR	C10-C11-C12	-3.06	113.66	123.22
33	WB	201	CYC	C2A-C1A-NA	3.06	114.50	110.05
33	fl	201	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
43	k1	102	BCR	C20-C21-C22	-3.06	122.94	127.31
36	BE	607	CLA	C2D-C1D-ND	-3.06	107.85	110.10
36	dE	403	CLA	CHB-C4A-NA	3.06	128.75	124.51
33	b8	201	CYC	C2C-C1C-NC	3.06	110.91	108.27
33	c2	201	CYC	CAD-CBD-CGD	-3.06	105.17	113.76
33	XK	201	CYC	OB-C4B-NB	-3.06	117.96	125.08
33	h5	201	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
33	hC	201	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
33	fH	201	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
33	YF	201	CYC	O2A-CGA-CBA	3.06	123.87	114.03
33	cA	201	CYC	CAD-CBD-CGD	-3.06	105.17	113.76
43	i1	101	BCR	C10-C11-C12	-3.06	113.66	123.22
33	5G	201	CYC	CBD-CAD-C3D	-3.06	107.39	112.62
33	fH	201	CYC	CAA-C2A-C1A	3.06	130.43	125.01
43	BE	615	BCR	C15-C16-C17	-3.06	117.20	123.47
33	BI	301	CYC	CAD-CBD-CGD	-3.06	105.18	113.76
33	c7	201	CYC	CAD-CBD-CGD	-3.06	105.18	113.76
33	h7	201	CYC	C4A-C3A-C2A	-3.06	102.99	106.51
33	f5	201	CYC	C2C-C1C-NC	3.06	110.91	108.27
33	BA	301	CYC	CMB-C2B-C1B	3.06	127.99	124.17
42	lD	101	LHG	O8-C23-C24	3.06	121.51	111.91
33	c9	201	CYC	CAD-CBD-CGD	-3.06	105.18	113.76
33	B2	301	CYC	CAD-CBD-CGD	-3.06	105.18	113.76
33	c3	201	CYC	CAD-CBD-CGD	-3.06	105.18	113.76
33	bJ	201	CYC	CAA-C2A-C1A	3.06	130.42	125.01
33	e7	201	CYC	CAD-CBD-CGD	-3.06	105.18	113.76
33	w4	201	CYC	OC-C1C-C2C	-3.06	123.74	126.17
33	gJ	202	CYC	CAD-CBD-CGD	-3.06	105.18	113.76
33	OG	201	CYC	C2A-C1A-NA	3.06	114.50	110.05
33	jK	201	CYC	C2A-C1A-NA	3.06	114.50	110.05
36	c1	502	CLA	CHB-C4A-NA	3.06	128.74	124.51
33	h6	201	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
33	jH	201	CYC	C4A-C3A-C2A	-3.06	103.00	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	f9	201	CYC	CAA-C2A-C1A	3.06	130.42	125.01
33	B9	301	CYC	CAD-CBD-CGD	-3.06	105.18	113.76
37	dE	408	PL9	C25-C24-C26	3.06	120.42	115.27
33	jK	201	CYC	OB-C4B-C3B	-3.06	124.72	128.04
33	eJ	201	CYC	CAD-CBD-CGD	-3.06	105.19	113.76
33	l2	201	CYC	CAA-C2A-C1A	3.06	130.42	125.01
33	b7	201	CYC	CAA-C2A-C1A	3.06	130.42	125.01
33	bC	201	CYC	CAA-C2A-C1A	3.06	130.42	125.01
33	hC	201	CYC	CAA-C2A-C1A	3.06	130.42	125.01
33	JF	201	CYC	CMB-C2B-C1B	3.06	127.98	124.17
43	X1	102	BCR	C39-C30-C29	3.06	121.14	108.91
33	j3	201	CYC	C2C-C1C-NC	3.06	110.91	108.27
33	f8	201	CYC	C2C-C1C-NC	3.06	110.91	108.27
33	h2	201	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
33	hH	201	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
33	eA	201	CYC	CAD-CBD-CGD	-3.06	105.19	113.76
33	dK	201	CYC	O2A-CGA-CBA	3.06	123.85	114.03
33	9K	201	CYC	CMC-C2C-C1C	-3.06	105.81	112.40
33	bA	201	CYC	CAA-C2A-C1A	3.06	130.42	125.01
36	b1	610	CLA	CHB-C4A-NA	3.06	128.74	124.51
33	z4	201	CYC	OC-C1C-C2C	-3.06	123.74	126.17
43	BD	615	BCR	C15-C16-C17	-3.06	117.21	123.47
33	JK	201	CYC	CMB-C2B-C1B	3.06	127.98	124.17
33	fC	201	CYC	CAA-C2A-C1A	3.06	130.42	125.01
44	hD	104	DGD	O1G-C1A-C2A	3.06	121.50	111.91
33	ZF	201	CYC	C4A-C3A-C2A	-3.06	103.00	106.51
37	d1	408	PL9	C25-C24-C26	3.06	120.41	115.27
33	cH	201	CYC	CAD-CBD-CGD	-3.06	105.19	113.76
36	BD	602	CLA	CHD-C1D-ND	-3.06	121.64	124.45
33	gJ	202	CYC	CMB-C2B-C1B	3.06	127.98	124.17
33	WB	201	CYC	C1A-C2A-C3A	-3.06	103.40	106.78
33	9F	201	CYC	CMC-C2C-C1C	-3.06	105.81	112.40
33	X4	201	CYC	CMB-C2B-C1B	3.06	127.98	124.17
33	B7	301	CYC	CMB-C2B-C1B	3.06	127.98	124.17
33	eH	201	CYC	CAD-CBD-CGD	-3.06	105.19	113.76
33	eI	201	CYC	CAD-CBD-CGD	-3.06	105.19	113.76
33	h6	201	CYC	C2C-C1C-NC	3.06	110.91	108.27
33	f7	201	CYC	C2C-C1C-NC	3.06	110.91	108.27
36	B1	604	CLA	CHB-C4A-NA	3.06	128.74	124.51
33	f6	201	CYC	CAA-C2A-C1A	3.06	130.41	125.01
33	hJ	201	CYC	CAA-C2A-C1A	3.06	130.41	125.01
44	h1	104	DGD	O1G-C1A-C2A	3.06	121.50	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	h1	105	BCR	C39-C30-C29	3.05	121.12	108.91
33	c7	201	CYC	CMB-C2B-C1B	3.05	127.98	124.17
33	b5	201	CYC	CAA-C2A-C1A	3.05	130.41	125.01
33	hI	201	CYC	CAA-C2A-C1A	3.05	130.41	125.01
36	BE	608	CLA	CHB-C4A-NA	3.05	128.74	124.51
33	e8	201	CYC	CAD-CBD-CGD	-3.05	105.20	113.76
36	BE	602	CLA	CHD-C1D-ND	-3.05	121.65	124.45
37	DE	408	PL9	C25-C24-C26	3.05	120.41	115.27
33	f2	201	CYC	C2C-C1C-NC	3.05	110.91	108.27
33	b3	201	CYC	C2C-C1C-NC	3.05	110.91	108.27
33	jJ	201	CYC	C4A-C3A-C2A	-3.05	103.00	106.51
33	cA	201	CYC	CMB-C2B-C1B	3.05	127.98	124.17
43	XD	102	BCR	C39-C30-C29	3.05	121.12	108.91
33	BC	301	CYC	CAD-CBD-CGD	-3.05	105.20	113.76
33	cI	201	CYC	CAD-CBD-CGD	-3.05	105.20	113.76
37	dD	408	PL9	C25-C24-C26	3.05	120.41	115.27
33	mF	201	CYC	OC-C1C-C2C	-3.05	123.75	126.17
33	h7	201	CYC	CAA-C2A-C1A	3.05	130.41	125.01
33	bH	201	CYC	CAA-C2A-C1A	3.05	130.41	125.01
43	BD	615	BCR	C24-C23-C22	-3.05	121.62	126.23
33	e9	201	CYC	CAD-CBD-CGD	-3.05	105.20	113.76
33	hH	201	CYC	C2C-C1C-NC	3.05	110.91	108.27
36	H1	101	CLA	C3B-C4B-NB	-3.05	105.26	109.21
43	BE	615	BCR	C16-C17-C18	-3.05	122.95	127.31
43	BE	616	BCR	C15-C16-C17	-3.05	117.22	123.47
36	BE	604	CLA	CHB-C4A-NA	3.05	128.73	124.51
33	e3	201	CYC	CAD-CBD-CGD	-3.05	105.20	113.76
33	e5	201	CYC	CAD-CBD-CGD	-3.05	105.20	113.76
33	dI	201	CYC	C2C-C1C-NC	3.05	110.90	108.27
33	3K	101	CYC	OC-C1C-NC	3.05	128.64	124.94
43	hD	105	BCR	C39-C30-C29	3.05	121.11	108.91
33	W4	201	CYC	C1A-C2A-C3A	-3.05	103.41	106.78
36	b1	611	CLA	CHB-C4A-NA	3.05	128.73	124.51
33	b3	201	CYC	CAA-C2A-C1A	3.05	130.41	125.01
43	XE	102	BCR	C39-C30-C29	3.05	121.11	108.91
33	YK	201	CYC	O2A-CGA-CBA	3.05	123.83	114.03
43	BD	617	BCR	C15-C14-C13	-3.05	122.96	127.31
33	bJ	201	CYC	C2C-C1C-NC	3.05	110.90	108.27
33	WB	201	CYC	CMA-C3A-C4A	3.05	129.76	125.06
33	e2	201	CYC	CAD-CBD-CGD	-3.05	105.21	113.76
33	cJ	201	CYC	CAD-CBD-CGD	-3.05	105.21	113.76
42	B1	621	LHG	O8-C23-C24	3.05	121.48	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	j6	201	CYC	CAA-C2A-C1A	3.05	130.41	125.01
33	BI	301	CYC	CMB-C2B-C1B	3.05	127.97	124.17
33	dH	201	CYC	C2C-C1C-NC	3.05	110.90	108.27
33	h3	201	CYC	CAA-C2A-C1A	3.05	130.40	125.01
33	b8	201	CYC	CAA-C2A-C1A	3.05	130.40	125.01
43	b1	616	BCR	C24-C23-C22	-3.05	121.63	126.23
43	B1	615	BCR	C16-C17-C18	-3.05	122.96	127.31
42	BD	620	LHG	O8-C23-C24	3.05	121.48	111.91
33	j5	201	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
43	BD	615	BCR	C16-C17-C18	-3.05	122.96	127.31
33	RL	201	CYC	OC-C1C-C2C	-3.05	123.75	126.17
33	f5	201	CYC	CAA-C2A-C1A	3.05	130.40	125.01
33	g5	202	CYC	CMB-C2B-C1B	3.05	127.97	124.17
33	bK	201	CYC	C1A-C2A-C3A	-3.05	103.41	106.78
33	j8	201	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
45	DD	403	PHO	CMB-C2B-C3B	3.05	130.38	124.68
42	l1	101	LHG	O8-C23-C24	3.05	121.47	111.91
43	b1	617	BCR	C15-C16-C17	-3.05	117.23	123.47
33	XB	201	CYC	CMB-C2B-C1B	3.05	127.97	124.17
33	g8	202	CYC	CMB-C2B-C1B	3.05	127.97	124.17
33	gH	202	CYC	CMB-C2B-C1B	3.05	127.97	124.17
33	hK	201	CYC	O2A-CGA-CBA	3.05	123.82	114.03
33	dC	201	CYC	C2C-C1C-NC	3.05	110.90	108.27
33	jI	201	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
33	ZK	201	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
33	f3	201	CYC	C4A-C3A-C2A	-3.05	103.01	106.51
33	h9	201	CYC	C2C-C1C-NC	3.05	110.90	108.27
33	fF	201	CYC	C2C-C1C-NC	3.05	110.90	108.27
33	mK	201	CYC	OC-C1C-C2C	-3.05	123.75	126.17
36	BD	604	CLA	CHB-C4A-NA	3.05	128.72	124.51
36	bE	606	CLA	CHB-C4A-NA	3.05	128.72	124.51
42	lE	101	LHG	O8-C23-C24	3.05	121.47	111.91
33	c5	201	CYC	CAD-CBD-CGD	-3.05	105.22	113.76
33	b6	201	CYC	CAA-C2A-C1A	3.05	130.40	125.01
33	h6	201	CYC	CAA-C2A-C1A	3.05	130.40	125.01
33	h7	201	CYC	C2C-C1C-NC	3.04	110.90	108.27
33	jF	201	CYC	OB-C4B-C3B	-3.04	124.74	128.04
33	c8	201	CYC	CAD-CBD-CGD	-3.04	105.22	113.76
33	WL	201	CYC	C2A-C1A-NA	3.04	114.48	110.05
33	WB	201	CYC	C4A-C3A-C2A	-3.04	103.01	106.51
33	hF	201	CYC	O2A-CGA-CBA	3.04	123.81	114.03
43	B1	616	BCR	C15-C16-C17	-3.04	117.24	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	IG	201	CYC	C2C-C1C-NC	3.04	110.90	108.27
43	BE	615	BCR	C38-C26-C25	-3.04	121.11	124.53
33	f3	201	CYC	CAA-C2A-C1A	3.04	130.39	125.01
33	f8	201	CYC	C4A-C3A-C2A	-3.04	103.01	106.51
36	I1	101	CLA	O2D-CGD-O1D	-3.04	117.89	123.84
36	BE	609	CLA	CHB-C4A-NA	3.04	128.72	124.51
36	cE	503	CLA	CHB-C4A-NA	3.04	128.72	124.51
43	bD	616	BCR	C24-C23-C22	-3.04	121.64	126.23
36	dD	405	CLA	CHB-C4A-NA	3.04	128.72	124.51
33	NF	101	CYC	CHD-C4C-NC	3.04	128.82	125.20
33	z4	201	CYC	CHD-C4C-NC	3.04	128.82	125.20
33	W4	201	CYC	C2A-C1A-NA	3.04	114.47	110.05
33	B3	301	CYC	CMB-C2B-C1B	3.04	127.96	124.17
45	aD	412	PHO	C14-C13-C12	3.04	122.30	111.29
33	b2	201	CYC	CAA-C2A-C1A	3.04	130.39	125.01
33	j2	201	CYC	CAA-C2A-C1A	3.04	130.39	125.01
33	h2	201	CYC	C2C-C1C-NC	3.04	110.89	108.27
33	fK	201	CYC	C2C-C1C-NC	3.04	110.89	108.27
33	jA	201	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
33	BB	1001	CYC	C1B-NB-C4B	-3.04	106.80	110.67
33	B4	1001	CYC	C1B-NB-C4B	-3.04	106.80	110.67
36	ID	101	CLA	O2D-CGD-O1D	-3.04	117.89	123.84
33	jJ	201	CYC	C2C-C1C-NC	3.04	110.89	108.27
42	BE	620	LHG	O8-C23-C24	3.04	121.44	111.91
33	hI	201	CYC	C2C-C1C-NC	3.04	110.89	108.27
33	3F	101	CYC	OC-C1C-NC	3.04	128.62	124.94
43	bE	617	BCR	C15-C16-C17	-3.04	117.25	123.47
33	b9	201	CYC	CAA-C2A-C1A	3.04	130.38	125.01
33	MG	201	CYC	CHA-C1A-C2A	-3.04	118.30	125.32
33	W4	201	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
33	fC	201	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
36	cD	503	CLA	CHB-C4A-NA	3.04	128.71	124.51
33	qB	201	CYC	CHD-C4C-NC	3.04	128.81	125.20
33	j9	201	CYC	CAA-C2A-C1A	3.04	130.38	125.01
33	j6	201	CYC	C4A-C3A-C2A	-3.04	103.02	106.51
33	7L	201	CYC	CAA-CBA-CGA	3.04	120.14	113.60
36	aD	406	CLA	CAA-C2A-C3A	-3.04	104.47	112.78
33	h3	201	CYC	C2C-C1C-NC	3.04	110.89	108.27
33	dJ	201	CYC	C2C-C1C-NC	3.04	110.89	108.27
33	h5	201	CYC	CAA-C2A-C1A	3.04	130.38	125.01
36	aE	406	CLA	CAA-C2A-C3A	-3.04	104.47	112.78
33	W4	201	CYC	CMA-C3A-C4A	3.04	129.74	125.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	jD	101	LMT	C3'-C4'-C5'	-3.03	103.97	110.93
43	BD	616	BCR	C15-C16-C17	-3.03	117.26	123.47
36	bD	611	CLA	CHB-C4A-NA	3.03	128.71	124.51
33	j2	201	CYC	C4A-C3A-C2A	-3.03	103.02	106.51
33	7G	201	CYC	C1B-C2B-C3B	-3.03	104.70	107.87
36	aE	404	CLA	C1-O2A-CGA	3.03	126.11	116.11
36	d1	405	CLA	CHB-C4A-NA	3.03	128.71	124.51
43	bD	617	BCR	C15-C16-C17	-3.03	117.26	123.47
40	jE	101	LMT	C3'-C4'-C5'	-3.03	103.97	110.93
33	nF	201	CYC	C1B-C2B-C3B	-3.03	104.71	107.87
33	nK	201	CYC	C1B-C2B-C3B	-3.03	104.71	107.87
33	h3	201	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
33	hJ	201	CYC	C4A-C3A-C2A	-3.03	103.03	106.51
33	jJ	201	CYC	CAA-C2A-C1A	3.03	130.37	125.01
33	jH	201	CYC	CAA-C2A-C1A	3.03	130.37	125.01
33	jI	201	CYC	CAA-C2A-C1A	3.03	130.37	125.01
33	q4	201	CYC	CHD-C4C-NC	3.03	128.81	125.20
33	hA	201	CYC	OB-C4B-C3B	-3.03	124.75	128.04
43	k1	102	BCR	C24-C23-C22	-3.03	121.66	126.23
36	a1	407	CLA	CAA-C2A-C3A	-3.03	104.48	112.78
43	bD	616	BCR	C38-C26-C25	-3.03	121.12	124.53
36	c1	514	CLA	CHB-C4A-NA	3.03	128.70	124.51
33	d9	201	CYC	C2C-C1C-NC	3.03	110.89	108.27
37	D1	407	PL9	C25-C24-C26	3.03	120.37	115.27
33	dA	201	CYC	C2C-C1C-NC	3.03	110.88	108.27
33	j8	201	CYC	CAA-C2A-C1A	3.03	130.37	125.01
36	BD	609	CLA	CHB-C4A-NA	3.03	128.70	124.51
33	WG	201	CYC	C2A-C1A-NA	3.03	114.45	110.05
43	bE	616	BCR	C24-C23-C22	-3.03	121.66	126.23
33	l2	201	CYC	C2C-C1C-NC	3.03	110.88	108.27
33	jI	201	CYC	C2C-C1C-NC	3.03	110.88	108.27
33	jC	201	CYC	CAA-C2A-C1A	3.03	130.36	125.01
37	DD	408	PL9	C25-C24-C26	3.03	120.36	115.27
33	TL	201	CYC	CMB-C2B-C1B	3.03	127.95	124.17
33	ML	201	CYC	CHA-C1A-C2A	-3.03	118.33	125.32
33	j6	201	CYC	C2C-C1C-NC	3.03	110.88	108.27
36	aD	404	CLA	C1-O2A-CGA	3.03	126.08	116.11
36	DD	405	CLA	CHB-C4A-NA	3.02	128.69	124.51
33	hA	201	CYC	C4A-C3A-C2A	-3.02	103.03	106.51
33	GL	201	CYC	CHA-C1A-C2A	-3.02	118.33	125.32
36	IE	101	CLA	O2D-CGD-O1D	-3.02	117.92	123.84
33	h5	201	CYC	C2C-C1C-NC	3.02	110.88	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	a1	405	CLA	C1-O2A-CGA	3.02	126.07	116.11
33	4L	201	CYC	CBD-CAD-C3D	-3.02	107.46	112.62
33	NG	201	CYC	C1B-CHB-C4A	3.02	135.47	128.08
33	d5	201	CYC	C2C-C1C-NC	3.02	110.88	108.27
43	BE	617	BCR	C15-C14-C13	-3.02	123.00	127.31
33	NL	201	CYC	C1B-CHB-C4A	3.02	135.47	128.08
36	B1	609	CLA	CHB-C4A-NA	3.02	128.69	124.51
33	f7	201	CYC	C4A-C3A-C2A	-3.02	103.04	106.51
33	VG	201	CYC	CHB-C4A-C3A	3.02	132.67	124.90
33	j9	201	CYC	C2C-C1C-NC	3.02	110.88	108.27
33	lC	201	CYC	C2C-C1C-NC	3.02	110.88	108.27
33	B9	301	CYC	CMB-C2B-C1B	3.02	127.94	124.17
33	nK	201	CYC	C4A-C3A-C2A	-3.02	103.04	106.51
33	h7	201	CYC	OB-C4B-C3B	-3.02	124.76	128.04
33	7G	201	CYC	CAA-CBA-CGA	3.02	120.10	113.60
36	cD	514	CLA	CHB-C4A-NA	3.02	128.69	124.51
33	JG	201	CYC	CMB-C2B-C1B	3.02	127.94	124.17
36	cE	509	CLA	C1B-CHB-C4A	-3.02	124.14	130.12
36	cE	514	CLA	CHB-C4A-NA	3.02	128.69	124.51
33	GG	201	CYC	CHA-C1A-C2A	-3.02	118.35	125.32
36	bE	612	CLA	CAA-C2A-C3A	-3.02	104.52	112.78
43	bE	616	BCR	C15-C16-C17	-3.02	117.29	123.47
33	kF	201	CYC	C2A-C1A-NA	3.02	114.44	110.05
33	VL	201	CYC	CHB-C4A-C3A	3.02	132.66	124.90
33	f6	201	CYC	C4A-C3A-C2A	-3.02	103.05	106.51
33	jA	201	CYC	CAA-C2A-C1A	3.02	130.34	125.01
43	B1	615	BCR	C24-C23-C22	-3.02	121.68	126.23
36	DE	405	CLA	CHB-C4A-NA	3.01	128.68	124.51
33	j7	201	CYC	CAA-C2A-C1A	3.01	130.34	125.01
33	PL	201	CYC	CHB-C4A-C3A	3.01	132.65	124.90
36	C1	509	CLA	CMB-C2B-C3B	3.01	130.32	124.68
43	bE	616	BCR	C38-C26-C25	-3.01	121.14	124.53
36	bE	611	CLA	CHB-C4A-NA	3.01	128.68	124.51
33	j3	201	CYC	CAA-C2A-C1A	3.01	130.34	125.01
40	j1	101	LMT	C3'-C4'-C5'	-3.01	104.02	110.93
33	jH	201	CYC	C2C-C1C-NC	3.01	110.87	108.27
33	PG	201	CYC	CHB-C4A-C3A	3.01	132.65	124.90
36	dE	405	CLA	CHB-C4A-NA	3.01	128.68	124.51
43	b1	616	BCR	C38-C26-C25	-3.01	121.14	124.53
33	jA	201	CYC	C2C-C1C-NC	3.01	110.87	108.27
33	TG	201	CYC	C4A-C3A-C2A	-3.01	103.05	106.51
36	bD	612	CLA	CAA-C2A-C3A	-3.01	104.53	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	j5	201	CYC	CAA-C2A-C1A	3.01	130.34	125.01
33	nF	201	CYC	C4A-C3A-C2A	-3.01	103.05	106.51
33	4G	201	CYC	CBD-CAD-C3D	-3.01	107.48	112.62
33	d2	201	CYC	C2C-C1C-NC	3.01	110.87	108.27
33	kK	201	CYC	C2A-C1A-NA	3.01	114.43	110.05
33	TL	201	CYC	C4A-C3A-C2A	-3.01	103.05	106.51
33	B4	1001	CYC	C1A-C2A-C3A	-3.01	103.45	106.78
43	BD	615	BCR	C38-C26-C25	-3.01	121.15	124.53
36	B1	610	CLA	CHB-C4A-NA	3.01	128.67	124.51
33	l3	201	CYC	C2C-C1C-NC	3.01	110.87	108.27
33	h9	201	CYC	OB-C4B-C3B	-3.01	124.78	128.04
36	D1	404	CLA	CHB-C4A-NA	3.01	128.67	124.51
33	lJ	201	CYC	C2C-C1C-NC	3.01	110.87	108.27
33	JL	201	CYC	CMB-C2B-C1B	3.01	127.92	124.17
33	d3	201	CYC	C2C-C1C-NC	3.01	110.86	108.27
33	BB	1001	CYC	C1A-C2A-C3A	-3.01	103.45	106.78
36	bD	606	CLA	CHB-C4A-NA	3.01	128.67	124.51
33	hJ	201	CYC	OB-C4B-C3B	-3.01	124.78	128.04
38	AE	407	SQD	C45-O47-C7	-3.00	110.39	117.79
33	j7	201	CYC	C2C-C1C-NC	3.00	110.86	108.27
33	lA	201	CYC	C2C-C1C-NC	3.00	110.86	108.27
33	4L	201	CYC	CHB-C1B-C2B	-3.00	121.00	126.95
33	j2	201	CYC	C2C-C1C-NC	3.00	110.86	108.27
33	l9	201	CYC	C2C-C1C-NC	3.00	110.86	108.27
36	CE	512	CLA	CMB-C2B-C1B	-3.00	123.85	128.46
33	AL	201	CYC	C1B-CHB-C4A	-3.00	120.75	128.08
33	hA	201	CYC	C2C-C1C-NC	3.00	110.86	108.27
33	zB	201	CYC	CHD-C4C-NC	3.00	128.77	125.20
33	B2	301	CYC	CMB-C2B-C1B	3.00	127.91	124.17
33	d6	201	CYC	C2C-C1C-NC	3.00	110.86	108.27
33	hI	201	CYC	OB-C4B-C3B	-3.00	124.78	128.04
33	l8	201	CYC	C2C-C1C-NC	3.00	110.86	108.27
33	lH	201	CYC	C2C-C1C-NC	3.00	110.86	108.27
36	b1	612	CLA	CAA-C2A-C3A	-3.00	104.56	112.78
36	bE	604	CLA	CHD-C1D-ND	-3.00	121.70	124.45
36	cD	509	CLA	C1B-CHB-C4A	-3.00	124.18	130.12
43	CD	520	BCR	C16-C17-C18	-3.00	123.03	127.31
43	b1	616	BCR	C15-C16-C17	-3.00	117.33	123.47
36	c1	509	CLA	C1B-CHB-C4A	-3.00	124.18	130.12
36	BE	610	CLA	CHB-C4A-NA	3.00	128.66	124.51
36	CD	512	CLA	CMB-C2B-C1B	-3.00	123.86	128.46
33	h5	201	CYC	OB-C4B-C3B	-3.00	124.79	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	bD	616	BCR	C15-C16-C17	-3.00	117.33	123.47
33	jC	201	CYC	C2C-C1C-NC	3.00	110.86	108.27
36	CD	505	CLA	O2D-CGD-O1D	-3.00	117.98	123.84
33	AG	201	CYC	C1B-CHB-C4A	-3.00	120.76	128.08
36	BD	610	CLA	CHB-C4A-NA	3.00	128.66	124.51
33	wB	201	CYC	OC-C1C-C2C	-3.00	123.79	126.17
36	CD	509	CLA	CMB-C2B-C3B	3.00	130.28	124.68
38	A1	407	SQD	C45-O47-C7	-3.00	110.42	117.79
36	cD	510	CLA	CMB-C2B-C1B	-3.00	123.86	128.46
38	C1	501	SQD	O7-S-C6	3.00	110.50	106.94
38	CD	501	SQD	O7-S-C6	2.99	110.50	106.94
33	PG	201	CYC	C2A-C1A-NA	2.99	114.40	110.05
33	hH	201	CYC	OB-C4B-C3B	-2.99	124.79	128.04
36	C1	512	CLA	CMB-C2B-C1B	-2.99	123.86	128.46
43	C1	520	BCR	C16-C17-C18	-2.99	123.04	127.31
33	hJ	201	CYC	C2C-C1C-NC	2.99	110.85	108.27
33	l9	201	CYC	OB-C4B-C3B	-2.99	124.80	128.04
36	BD	611	CLA	CAA-C2A-C3A	-2.99	104.59	112.78
33	PL	201	CYC	OB-C4B-NB	-2.99	118.13	125.08
36	D1	404	CLA	CMB-C2B-C1B	-2.99	123.87	128.46
33	PG	201	CYC	OB-C4B-NB	-2.99	118.13	125.08
33	4G	201	CYC	CHB-C1B-C2B	-2.99	121.03	126.95
36	cE	510	CLA	CMB-C2B-C1B	-2.99	123.87	128.46
36	BE	611	CLA	CAA-C2A-C3A	-2.99	104.59	112.78
33	l6	201	CYC	OB-C4B-C3B	-2.99	124.80	128.04
45	DE	403	PHO	C9-C8-C10	2.99	122.11	111.29
36	CE	505	CLA	O2D-CGD-O1D	-2.99	118.00	123.84
43	CE	520	BCR	C16-C17-C18	-2.99	123.05	127.31
36	B1	604	CLA	O2D-CGD-O1D	-2.99	118.00	123.84
33	h8	201	CYC	OB-C4B-C3B	-2.99	124.80	128.04
33	l8	201	CYC	OB-C4B-C3B	-2.99	124.80	128.04
33	fK	201	CYC	C2A-C1A-NA	2.99	114.39	110.05
33	j5	201	CYC	OB-C4B-C3B	-2.99	124.80	128.04
33	fF	201	CYC	C2A-C1A-NA	2.99	114.39	110.05
33	PL	201	CYC	C2A-C1A-NA	2.98	114.39	110.05
33	l7	201	CYC	C2C-C1C-NC	2.98	110.84	108.27
33	j8	201	CYC	C2C-C1C-NC	2.98	110.84	108.27
38	AD	407	SQD	C45-O47-C7	-2.98	110.45	117.79
36	C1	505	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
33	d6	201	CYC	OB-C4B-C3B	-2.98	124.80	128.04
33	lJ	201	CYC	OB-C4B-C3B	-2.98	124.80	128.04
43	i1	101	BCR	C33-C5-C4	2.98	119.34	113.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	HE	103	DGD	O1G-C1A-C2A	2.98	121.27	111.91
33	mF	201	CYC	CHB-C4A-C3A	2.98	132.57	124.90
36	dE	406	CLA	C1B-CHB-C4A	-2.98	124.21	130.12
33	l5	201	CYC	OB-C4B-C3B	-2.98	124.81	128.04
33	l7	201	CYC	OB-C4B-C3B	-2.98	124.81	128.04
33	j5	201	CYC	C2C-C1C-NC	2.98	110.84	108.27
36	CE	509	CLA	CMB-C2B-C3B	2.98	130.25	124.68
33	II	201	CYC	C2C-C1C-NC	2.98	110.84	108.27
33	r4	201	CYC	CHB-C1B-C2B	-2.98	121.04	126.95
36	XE	101	CLA	CMB-C2B-C3B	2.98	130.25	124.68
36	c1	512	CLA	C2A-C1A-CHA	2.98	129.07	123.86
33	mK	201	CYC	CHB-C4A-C3A	2.98	132.56	124.90
33	h3	201	CYC	OB-C4B-C3B	-2.98	124.81	128.04
33	ML	201	CYC	OC-C1C-C2C	-2.98	123.80	126.17
36	BD	604	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
36	DD	405	CLA	CMB-C2B-C1B	-2.98	123.89	128.46
36	b1	606	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
33	rB	201	CYC	CHB-C1B-C2B	-2.98	121.05	126.95
43	B1	615	BCR	C38-C26-C25	-2.98	121.18	124.53
33	IH	201	CYC	OB-C4B-C3B	-2.98	124.81	128.04
33	HG	201	CYC	CHB-C4A-C3A	-2.98	117.24	124.90
33	C4	1003	CYC	CAC-C3C-C4C	-2.98	105.03	112.67
33	MG	201	CYC	OC-C1C-C2C	-2.98	123.81	126.17
43	CE	516	BCR	C27-C26-C25	-2.98	118.41	122.73
38	CE	501	SQD	O7-S-C6	2.98	110.47	106.94
33	dJ	201	CYC	OB-C4B-C3B	-2.97	124.81	128.04
36	B1	611	CLA	CAA-C2A-C3A	-2.97	104.63	112.78
33	HL	201	CYC	CHB-C4A-C3A	-2.97	117.25	124.90
33	Q4	201	CYC	OC-C1C-C2C	-2.97	123.81	126.17
44	HD	103	DGD	O1G-C1A-C2A	2.97	121.24	111.91
36	bD	604	CLA	CHD-C1D-ND	-2.97	121.72	124.45
44	H1	103	DGD	O1G-C1A-C2A	2.97	121.24	111.91
33	gK	201	CYC	C4A-C3A-C2A	-2.97	103.09	106.51
36	BE	604	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
44	CD	517	DGD	O2G-C1B-C2B	2.97	117.91	111.50
36	X1	101	CLA	CMB-C2B-C3B	2.97	130.24	124.68
36	b1	606	CLA	CHB-C4A-NA	2.97	128.62	124.51
36	c1	510	CLA	CMB-C2B-C1B	-2.97	123.90	128.46
33	NK	101	CYC	C1B-CHB-C4A	2.97	135.34	128.08
36	c1	506	CLA	CMB-C2B-C3B	2.97	130.24	124.68
33	PL	201	CYC	OB-C4B-C3B	-2.97	124.82	128.04
33	II	201	CYC	OB-C4B-C3B	-2.97	124.82	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	BB	1001	CYC	C2A-C1A-NA	2.97	114.37	110.05
33	lA	201	CYC	OB-C4B-C3B	-2.97	124.82	128.04
36	XD	101	CLA	CMB-C2B-C3B	2.97	130.24	124.68
43	c1	515	BCR	C33-C5-C6	-2.97	121.19	124.53
33	B4	1002	CYC	CAC-C3C-C4C	-2.97	105.05	112.67
44	CE	517	DGD	O2G-C1B-C2B	2.97	117.90	111.50
36	d1	405	CLA	CMB-C2B-C1B	-2.97	123.90	128.46
36	bE	606	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
33	NF	101	CYC	C1B-CHB-C4A	2.97	135.33	128.08
43	B1	616	BCR	C7-C8-C9	-2.97	121.75	126.23
43	iD	102	BCR	C33-C5-C4	2.97	119.31	113.62
33	S4	201	CYC	CHD-C4C-NC	2.97	128.73	125.20
33	h6	201	CYC	OB-C4B-C3B	-2.97	124.82	128.04
36	bD	606	CLA	O2D-CGD-O1D	-2.97	118.04	123.84
36	d1	406	CLA	C1B-CHB-C4A	-2.96	124.25	130.12
33	B4	1001	CYC	C2A-C1A-NA	2.96	114.36	110.05
36	C1	505	CLA	C2A-C1A-CHA	2.96	129.04	123.86
36	eE	505	CLA	CHB-C4A-NA	2.96	128.61	124.51
36	dE	405	CLA	CMB-C2B-C1B	-2.96	123.91	128.46
36	dD	406	CLA	C1B-CHB-C4A	-2.96	124.25	130.12
37	DE	408	PL9	C20-C19-C21	2.96	120.25	115.27
43	b1	616	BCR	C16-C17-C18	-2.96	123.08	127.31
33	CB	1002	CYC	CAD-CBD-CGD	-2.96	105.45	113.76
33	CB	1003	CYC	CAC-C3C-C4C	-2.96	105.07	112.67
33	LG	201	CYC	CMB-C2B-C3B	2.96	134.16	126.12
33	LL	201	CYC	CMB-C2B-C3B	2.96	134.16	126.12
36	iD	101	CLA	CMB-C2B-C3B	2.96	130.22	124.68
33	BB	1002	CYC	CAC-C3C-C4C	-2.96	105.07	112.67
33	QB	201	CYC	OC-C1C-C2C	-2.96	123.82	126.17
33	C4	1002	CYC	CAD-CBD-CGD	-2.96	105.46	113.76
33	AG	201	CYC	C4A-C3A-C2A	-2.96	103.11	106.51
33	d2	201	CYC	OB-C4B-C3B	-2.96	124.83	128.04
37	D1	407	PL9	C20-C19-C21	2.96	120.25	115.27
36	CD	515	CLA	CHB-C4A-NA	2.96	128.61	124.51
33	d8	201	CYC	OB-C4B-C3B	-2.96	124.83	128.04
36	b1	604	CLA	CHD-C1D-ND	-2.96	121.73	124.45
47	V1	201	HEM	C4D-ND-C1D	2.96	108.13	105.07
37	DD	408	PL9	C20-C19-C21	2.96	120.25	115.27
43	bD	616	BCR	C16-C17-C18	-2.96	123.09	127.31
36	CD	505	CLA	C2A-C1A-CHA	2.96	129.03	123.86
43	kE	102	BCR	C2-C1-C6	2.96	115.03	110.48
44	C1	517	DGD	O2G-C1B-C2B	2.96	117.87	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	SB	201	CYC	CHD-C4C-NC	2.96	128.72	125.20
36	C1	515	CLA	CHB-C4A-NA	2.96	128.60	124.51
33	jK	201	CYC	CHA-C1A-C2A	-2.96	118.49	125.32
33	l6	201	CYC	C2C-C1C-NC	2.96	110.82	108.27
36	c1	507	CLA	CHB-C4A-NA	2.96	128.60	124.51
36	DE	405	CLA	CMB-C2B-C1B	-2.96	123.92	128.46
33	PG	201	CYC	OB-C4B-C3B	-2.96	124.83	128.04
33	hC	201	CYC	OB-C4B-C3B	-2.96	124.83	128.04
43	iE	102	BCR	C33-C5-C4	2.96	119.29	113.62
36	dD	405	CLA	CMB-C2B-C1B	-2.96	123.92	128.46
33	QG	201	CYC	C4A-C3A-C2A	-2.95	103.11	106.51
36	CE	515	CLA	CHB-C4A-NA	2.95	128.60	124.51
33	jF	201	CYC	CHA-C1A-C2A	-2.95	118.49	125.32
33	C4	1001	CYC	CHB-C4A-C3A	2.95	132.50	124.90
43	eE	515	BCR	C33-C5-C6	-2.95	121.21	124.53
43	bE	616	BCR	C16-C17-C18	-2.95	123.10	127.31
43	BE	615	BCR	C38-C26-C27	2.95	119.29	113.62
45	d1	402	PHO	CMB-C2B-C3B	2.95	130.20	124.68
33	TL	201	CYC	CHA-C1A-C2A	-2.95	118.50	125.32
33	LK	201	CYC	C2C-C1C-NC	2.95	110.82	108.27
33	dH	201	CYC	OB-C4B-C3B	-2.95	124.84	128.04
36	C1	510	CLA	C3D-C4D-ND	2.95	115.01	110.24
33	lC	201	CYC	OB-C4B-C3B	-2.95	124.84	128.04
33	gF	201	CYC	C4A-C3A-C2A	-2.95	103.12	106.51
36	CD	505	CLA	CHB-C4A-NA	2.95	128.59	124.51
33	kK	201	CYC	CMB-C2B-C1B	2.95	127.85	124.17
33	dI	201	CYC	OB-C4B-C3B	-2.95	124.84	128.04
36	c1	504	CLA	CHB-C4A-NA	2.95	128.59	124.51
36	B1	603	CLA	CMB-C2B-C3B	2.95	130.19	124.68
43	cD	515	BCR	C33-C5-C6	-2.95	121.22	124.53
33	l2	201	CYC	OB-C4B-C3B	-2.95	124.84	128.04
33	d5	201	CYC	OB-C4B-C3B	-2.95	124.84	128.04
43	CE	520	BCR	C10-C11-C12	-2.95	114.02	123.22
36	h1	101	CLA	C2A-C1A-CHA	2.95	129.01	123.86
33	2G	101	CYC	CHA-C1A-C2A	-2.95	118.51	125.32
37	d1	408	PL9	C20-C19-C21	2.95	120.23	115.27
33	1L	201	CYC	OB-C4B-C3B	-2.95	124.84	128.04
36	CE	510	CLA	C3D-C4D-ND	2.95	115.00	110.24
33	w4	201	CYC	C2A-C1A-NA	2.95	114.33	110.05
43	CD	516	BCR	C27-C26-C25	-2.95	118.45	122.73
43	CD	520	BCR	C10-C11-C12	-2.95	114.02	123.22
33	TG	201	CYC	CHA-C1A-C2A	-2.94	118.52	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	wB	201	CYC	C2A-C1A-NA	2.94	114.33	110.05
33	Q4	201	CYC	CAA-C2A-C1A	2.94	130.22	125.01
43	bE	616	BCR	C38-C26-C27	2.94	119.27	113.62
33	d9	201	CYC	OB-C4B-C3B	-2.94	124.85	128.04
45	a1	413	PHO	C8-C7-C6	-2.94	91.08	113.42
43	bD	616	BCR	C38-C26-C27	2.94	119.27	113.62
33	2L	101	CYC	CHA-C1A-C2A	-2.94	118.52	125.32
33	CB	1001	CYC	CHB-C4A-C3A	2.94	132.47	124.90
33	h2	201	CYC	OB-C4B-C3B	-2.94	124.85	128.04
33	dA	201	CYC	OB-C4B-C3B	-2.94	124.85	128.04
43	bD	617	BCR	C7-C8-C9	-2.94	121.79	126.23
43	CD	521	BCR	C2-C1-C6	2.94	115.01	110.48
36	cD	512	CLA	C2A-C1A-CHA	2.94	129.00	123.86
33	b7	201	CYC	OB-C4B-C3B	-2.94	124.85	128.04
43	b1	617	BCR	C7-C8-C9	-2.94	121.79	126.23
43	C1	520	BCR	C10-C11-C12	-2.94	114.04	123.22
33	IF	201	CYC	CMD-C2D-C3D	-2.94	119.40	124.94
36	hD	101	CLA	C2A-C1A-CHA	2.94	129.00	123.86
36	C1	505	CLA	CHB-C4A-NA	2.94	128.58	124.51
33	IK	201	CYC	CMD-C2D-C3D	-2.94	119.40	124.94
33	AL	201	CYC	C4A-C3A-C2A	-2.94	103.13	106.51
33	LL	201	CYC	CBB-CAB-C3B	-2.94	104.32	112.43
36	CD	510	CLA	C3D-C4D-ND	2.94	115.00	110.24
43	kD	102	BCR	C2-C1-C6	2.94	115.01	110.48
36	cD	506	CLA	C2A-C1A-CHA	2.94	129.00	123.86
43	BE	616	BCR	C7-C8-C9	-2.94	121.79	126.23
33	d3	201	CYC	OB-C4B-C3B	-2.94	124.85	128.04
36	CE	510	CLA	C1B-CHB-C4A	-2.94	124.30	130.12
33	kF	201	CYC	CMB-C2B-C1B	2.94	127.84	124.17
36	hE	101	CLA	C2A-C1A-CHA	2.94	129.00	123.86
33	LF	201	CYC	C2C-C1C-NC	2.94	110.81	108.27
33	sB	201	CYC	CMA-C3A-C4A	2.94	129.59	125.06
45	aE	412	PHO	C9-C8-C10	2.94	121.93	111.29
36	CD	510	CLA	C1B-CHB-C4A	-2.94	124.30	130.12
33	d7	201	CYC	OB-C4B-C3B	-2.94	124.85	128.04
33	j2	201	CYC	OB-C4B-C3B	-2.94	124.85	128.04
33	dC	201	CYC	OB-C4B-C3B	-2.94	124.85	128.04
37	dD	408	PL9	C20-C19-C21	2.94	120.21	115.27
36	bD	605	CLA	CMB-C2B-C3B	2.94	130.17	124.68
43	ZE	102	BCR	C2-C1-C6	2.94	115.00	110.48
36	c1	505	CLA	C2A-C1A-CHA	2.94	128.99	123.86
33	qB	201	CYC	C2A-C1A-NA	2.94	114.32	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	b1	616	BCR	C38-C26-C27	2.94	119.26	113.62
36	CE	505	CLA	CMB-C2B-C3B	2.94	130.17	124.68
36	iE	101	CLA	CMB-C2B-C3B	2.94	130.17	124.68
43	BD	616	BCR	C7-C8-C9	-2.94	121.80	126.23
33	LG	201	CYC	CBB-CAB-C3B	-2.94	104.34	112.43
36	H1	101	CLA	C2A-C1A-CHA	2.94	128.99	123.86
36	C1	510	CLA	C1B-CHB-C4A	-2.94	124.30	130.12
36	CE	505	CLA	C2A-C1A-CHA	2.93	128.99	123.86
36	cD	505	CLA	CHB-C4A-NA	2.93	128.57	124.51
36	HD	101	CLA	C2A-C1A-CHA	2.93	128.99	123.86
33	l3	201	CYC	OB-C4B-C3B	-2.93	124.86	128.04
38	A1	407	SQD	O48-C23-C24	2.93	121.11	111.91
33	B4	1004	CYC	CHD-C4C-NC	2.93	128.69	125.20
47	VD	201	HEM	C4D-ND-C1D	2.93	108.10	105.07
33	AL	201	CYC	C2C-C3C-C4C	-2.93	96.95	101.34
39	dE	411	LMG	O8-C28-C29	2.93	121.11	111.91
39	C1	519	LMG	O8-C28-C29	2.93	121.11	111.91
33	QL	201	CYC	C4A-C3A-C2A	-2.93	103.14	106.51
33	e8	201	CYC	C1B-C2B-C3B	-2.93	104.81	107.87
33	QB	201	CYC	CAA-C2A-C1A	2.93	130.19	125.01
43	Z1	102	BCR	C2-C1-C6	2.93	114.99	110.48
43	C1	516	BCR	C27-C26-C25	-2.93	118.48	122.73
33	f5	201	CYC	OB-C4B-C3B	-2.93	124.86	128.04
33	1G	201	CYC	OB-C4B-C3B	-2.93	124.86	128.04
36	cE	507	CLA	CHB-C4A-NA	2.93	128.56	124.51
39	CE	519	LMG	O8-C28-C29	2.93	121.10	111.91
43	BD	615	BCR	C38-C26-C27	2.93	119.24	113.62
39	CD	519	LMG	O8-C28-C29	2.93	121.10	111.91
33	j6	201	CYC	OB-C4B-C3B	-2.93	124.86	128.04
33	3F	101	CYC	CHA-C1A-NA	-2.93	124.77	128.83
36	b1	608	CLA	CHB-C4A-NA	2.93	128.56	124.51
44	hD	104	DGD	O4D-C4D-C3D	-2.93	103.58	110.35
33	jA	201	CYC	OB-C4B-C3B	-2.93	124.86	128.04
36	BD	603	CLA	CMB-C2B-C3B	2.93	130.15	124.68
38	AD	407	SQD	O48-C23-C24	2.93	121.09	111.91
36	bE	605	CLA	CMB-C2B-C3B	2.93	130.15	124.68
33	f2	201	CYC	OB-C4B-C3B	-2.93	124.86	128.04
33	f8	201	CYC	OB-C4B-C3B	-2.93	124.86	128.04
33	jI	201	CYC	OB-C4B-C3B	-2.93	124.86	128.04
33	q4	201	CYC	C2A-C1A-NA	2.93	114.31	110.05
33	iJ	202	CYC	C1B-C2B-C3B	-2.93	104.82	107.87
43	B1	615	BCR	C38-C26-C27	2.92	119.23	113.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	dF	201	CYC	CBD-CAD-C3D	-2.92	107.63	112.62
33	AG	201	CYC	C2C-C3C-C4C	-2.92	96.96	101.34
33	jJ	201	CYC	OB-C4B-C3B	-2.92	124.87	128.04
33	BB	1004	CYC	CHD-C4C-NC	2.92	128.68	125.20
36	cE	506	CLA	C2A-C1A-CHA	2.92	128.97	123.86
38	D1	413	SQD	O48-C23-C24	2.92	121.08	111.91
43	k1	102	BCR	C2-C1-C6	2.92	114.98	110.48
36	b1	614	CLA	CHB-C4A-NA	2.92	128.55	124.51
39	d1	411	LMG	O8-C28-C29	2.92	121.08	111.91
43	bE	617	BCR	C7-C8-C9	-2.92	121.82	126.23
33	e9	201	CYC	C1B-C2B-C3B	-2.92	104.82	107.87
33	f7	201	CYC	OB-C4B-C3B	-2.92	124.87	128.04
33	fl	201	CYC	OB-C4B-C3B	-2.92	124.87	128.04
39	D1	410	LMG	O8-C28-C29	2.92	121.08	111.91
33	jH	201	CYC	OB-C4B-C3B	-2.92	124.87	128.04
33	dK	201	CYC	CBD-CAD-C3D	-2.92	107.64	112.62
39	DE	411	LMG	O8-C28-C29	2.92	121.07	111.91
37	dE	408	PL9	C20-C19-C21	2.92	120.18	115.27
36	BE	606	CLA	CHB-C4A-NA	2.92	128.55	124.51
36	b1	605	CLA	CMB-C2B-C3B	2.92	130.14	124.68
39	dD	411	LMG	O8-C28-C29	2.92	121.06	111.91
36	BE	603	CLA	CMB-C2B-C3B	2.92	130.14	124.68
39	DD	411	LMG	O8-C28-C29	2.92	121.06	111.91
33	WG	201	CYC	C1B-C2B-C3B	-2.92	104.83	107.87
36	DE	406	CLA	C1B-CHB-C4A	-2.92	124.34	130.12
33	R4	201	CYC	CAA-C2A-C1A	2.92	130.17	125.01
33	fC	201	CYC	OB-C4B-C3B	-2.92	124.88	128.04
33	CB	1002	CYC	CHA-C1A-C2A	-2.92	118.58	125.32
38	AE	407	SQD	O48-C23-C24	2.92	121.06	111.91
36	BD	613	CLA	CHB-C4A-NA	2.92	128.54	124.51
36	CD	505	CLA	CMB-C2B-C3B	2.92	130.13	124.68
33	s4	201	CYC	CMA-C3A-C4A	2.91	129.55	125.06
36	cE	512	CLA	C2A-C1A-CHA	2.91	128.96	123.86
33	e6	201	CYC	C1B-C2B-C3B	-2.91	104.83	107.87
36	xE	101	CLA	CMB-C2B-C3B	2.91	130.13	124.68
43	h1	105	BCR	C11-C12-C13	-2.91	118.23	126.42
38	DD	414	SQD	O48-C23-C24	2.91	121.05	111.91
43	X1	102	BCR	C11-C12-C13	-2.91	118.23	126.42
36	DD	406	CLA	C1B-CHB-C4A	-2.91	124.35	130.12
36	HE	101	CLA	C2A-C1A-CHA	2.91	128.95	123.86
33	j3	201	CYC	OB-C4B-C3B	-2.91	124.88	128.04
36	cD	511	CLA	CMB-C2B-C3B	2.91	130.13	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	fH	201	CYC	OB-C4B-C3B	-2.91	124.88	128.04
36	aE	404	CLA	CHB-C4A-NA	2.91	128.54	124.51
43	CD	516	BCR	C38-C26-C25	-2.91	121.26	124.53
36	a1	405	CLA	CHB-C4A-NA	2.91	128.54	124.51
33	j8	201	CYC	OB-C4B-C3B	-2.91	124.88	128.04
38	d1	414	SQD	O48-C23-C24	2.91	121.04	111.91
36	C1	505	CLA	CMB-C2B-C3B	2.91	130.12	124.68
36	xD	101	CLA	CMB-C2B-C3B	2.91	130.12	124.68
38	dD	414	SQD	O48-C23-C24	2.91	121.04	111.91
38	dE	414	SQD	O48-C23-C24	2.91	121.04	111.91
44	h1	104	DGD	O4D-C4D-C3D	-2.91	103.62	110.35
36	CD	503	CLA	CMB-C2B-C3B	2.91	130.12	124.68
36	cE	511	CLA	CMB-C2B-C3B	2.91	130.12	124.68
36	aD	404	CLA	CHB-C4A-NA	2.91	128.53	124.51
33	RB	201	CYC	CAA-C2A-C1A	2.91	130.15	125.01
36	D1	405	CLA	C1B-CHB-C4A	-2.91	124.36	130.12
47	VE	201	HEM	C4D-ND-C1D	2.91	108.08	105.07
33	YK	201	CYC	CMC-C2C-C1C	-2.91	106.13	112.40
33	hF	201	CYC	CMC-C2C-C1C	-2.91	106.13	112.40
43	hD	105	BCR	C11-C12-C13	-2.91	118.25	126.42
38	DE	414	SQD	O48-C23-C24	2.91	121.03	111.91
33	C4	1002	CYC	CHA-C1A-C2A	-2.91	118.60	125.32
33	v4	201	CYC	C1A-C2A-C3A	-2.91	103.56	106.78
33	eF	201	CYC	CMA-C3A-C2A	-2.91	118.23	126.12
36	AD	404	CLA	C1B-CHB-C4A	-2.91	124.36	130.12
33	j9	201	CYC	OB-C4B-C3B	-2.91	124.89	128.04
33	hK	201	CYC	CBD-CAD-C3D	-2.91	107.66	112.62
33	w4	201	CYC	C1A-C2A-C3A	-2.91	103.57	106.78
33	vB	201	CYC	C1A-C2A-C3A	-2.91	103.57	106.78
36	x1	101	CLA	CMB-C2B-C3B	2.91	130.11	124.68
44	hE	104	DGD	O4D-C4D-C3D	-2.91	103.63	110.35
38	d1	414	SQD	O9-S-C6	2.91	110.39	106.94
38	dE	414	SQD	O9-S-C6	2.91	110.39	106.94
33	O4	201	CYC	CAC-C3C-C2C	-2.91	107.00	114.26
33	YF	201	CYC	CBD-CAD-C3D	-2.91	107.66	112.62
33	hF	201	CYC	CBD-CAD-C3D	-2.91	107.66	112.62
36	CE	505	CLA	CHB-C4A-NA	2.90	128.53	124.51
33	e3	201	CYC	C1B-C2B-C3B	-2.90	104.84	107.87
45	dD	402	PHO	C8-C7-C6	-2.90	91.38	113.42
36	C1	503	CLA	CMB-C2B-C3B	2.90	130.11	124.68
33	2G	101	CYC	C4A-C3A-C2A	-2.90	103.17	106.51
33	eK	201	CYC	CMA-C3A-C2A	-2.90	118.23	126.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	YF	201	CYC	CMC-C2C-C1C	-2.90	106.14	112.40
33	wB	201	CYC	C1A-C2A-C3A	-2.90	103.57	106.78
36	c1	511	CLA	CMB-C2B-C3B	2.90	130.11	124.68
33	eJ	201	CYC	C1B-C2B-C3B	-2.90	104.84	107.87
33	j7	201	CYC	OB-C4B-C3B	-2.90	124.89	128.04
36	A1	404	CLA	C1B-CHB-C4A	-2.90	124.37	130.12
36	bD	608	CLA	CHB-C4A-NA	2.90	128.52	124.51
43	XD	102	BCR	C11-C12-C13	-2.90	118.27	126.42
36	cD	507	CLA	CHB-C4A-NA	2.90	128.52	124.51
33	PL	201	CYC	C2C-C1C-NC	2.90	110.77	108.27
33	fA	201	CYC	OB-C4B-C3B	-2.90	124.89	128.04
33	QB	201	CYC	C1B-CHB-C4A	2.90	135.16	128.08
33	3K	101	CYC	CHA-C1A-NA	-2.90	124.81	128.83
33	2L	101	CYC	C4A-C3A-C2A	-2.90	103.18	106.51
33	9F	201	CYC	CBD-CAD-C3D	-2.90	107.67	112.62
38	BE	621	SQD	O48-C23-C24	2.90	121.00	111.91
36	B1	613	CLA	CHB-C4A-NA	2.90	128.52	124.51
36	bE	608	CLA	CHB-C4A-NA	2.90	128.52	124.51
43	XE	102	BCR	C11-C12-C13	-2.90	118.28	126.42
38	dD	414	SQD	O9-S-C6	2.90	110.38	106.94
43	CE	516	BCR	C38-C26-C25	-2.90	121.28	124.53
33	BC	301	CYC	C1B-C2B-C3B	-2.90	104.85	107.87
38	BD	621	SQD	O48-C23-C24	2.90	121.00	111.91
38	B1	622	SQD	O48-C23-C24	2.90	120.99	111.91
40	b1	601	LMT	O5'-C1'-O1'	-2.90	103.12	109.97
33	iA	202	CYC	C1B-C2B-C3B	-2.89	104.85	107.87
33	TB	201	CYC	CHA-C1A-C2A	-2.89	118.63	125.32
33	9K	201	CYC	CBD-CAD-C3D	-2.89	107.68	112.62
33	eI	201	CYC	C1B-C2B-C3B	-2.89	104.85	107.87
33	b3	201	CYC	OB-C4B-C3B	-2.89	124.90	128.04
33	bC	201	CYC	OB-C4B-C3B	-2.89	124.90	128.04
33	i2	202	CYC	C1B-C2B-C3B	-2.89	104.85	107.87
33	hK	201	CYC	CMC-C2C-C1C	-2.89	106.17	112.40
33	Q4	201	CYC	C1B-CHB-C4A	2.89	135.15	128.08
33	f3	201	CYC	OB-C4B-C3B	-2.89	124.90	128.04
33	bA	201	CYC	OB-C4B-C3B	-2.89	124.90	128.04
33	YK	201	CYC	CBD-CAD-C3D	-2.89	107.69	112.62
33	OB	201	CYC	CAC-C3C-C2C	-2.89	107.03	114.26
36	BD	606	CLA	CHB-C4A-NA	2.89	128.51	124.51
33	f9	201	CYC	OB-C4B-C3B	-2.89	124.90	128.04
33	dK	201	CYC	CMC-C2C-C1C	-2.89	106.17	112.40
33	b5	201	CYC	OB-C4B-C3B	-2.89	124.90	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	fJ	201	CYC	OB-C4B-C3B	-2.89	124.90	128.04
33	i5	202	CYC	C1B-C2B-C3B	-2.89	104.86	107.87
44	C1	518	DGD	O1G-C1A-C2A	2.89	120.97	111.91
44	CE	518	DGD	O1G-C1A-C2A	2.89	120.97	111.91
33	dF	201	CYC	CMC-C2C-C1C	-2.89	106.18	112.40
33	k7	201	CYC	C1B-C2B-C3B	-2.89	104.86	107.87
33	iC	202	CYC	C1B-C2B-C3B	-2.89	104.86	107.87
36	BD	601	CLA	CMB-C2B-C3B	2.89	130.08	124.68
33	JL	201	CYC	CBD-CAD-C3D	-2.89	107.69	112.62
36	B1	601	CLA	CMB-C2B-C3B	2.89	130.08	124.68
33	v4	201	CYC	C2C-C1C-NC	2.89	110.76	108.27
40	bD	601	LMT	O5'-C1'-O1'	-2.89	103.14	109.97
33	i8	202	CYC	C1B-C2B-C3B	-2.89	104.86	107.87
36	bE	603	CLA	CMB-C2B-C3B	2.89	130.08	124.68
33	eH	201	CYC	C1B-C2B-C3B	-2.89	104.86	107.87
36	CE	503	CLA	CMB-C2B-C3B	2.89	130.08	124.68
33	b8	201	CYC	OB-C4B-C3B	-2.88	124.91	128.04
33	jC	201	CYC	OB-C4B-C3B	-2.88	124.91	128.04
44	CD	518	DGD	O1G-C1A-C2A	2.88	120.96	111.91
36	bD	603	CLA	CMB-C2B-C3B	2.88	130.07	124.68
40	bE	601	LMT	O5'-C1'-O1'	-2.88	103.14	109.97
36	B1	606	CLA	CHB-C4A-NA	2.88	128.50	124.51
36	AE	404	CLA	C1B-CHB-C4A	-2.88	124.41	130.12
36	C1	506	CLA	C2A-C1A-CHA	2.88	128.90	123.86
33	bH	201	CYC	OB-C4B-C3B	-2.88	124.91	128.04
47	VE	201	HEM	CAD-CBD-CGD	-2.88	107.40	113.60
36	bD	614	CLA	CHB-C4A-NA	2.88	128.50	124.51
33	WL	201	CYC	C1B-C2B-C3B	-2.88	104.86	107.87
43	hE	105	BCR	C11-C12-C13	-2.88	118.32	126.42
33	i3	202	CYC	C1B-C2B-C3B	-2.88	104.86	107.87
43	X1	102	BCR	C20-C21-C22	-2.88	123.20	127.31
43	cD	519	BCR	C10-C11-C12	-2.88	114.23	123.22
43	C1	516	BCR	C38-C26-C25	-2.88	121.29	124.53
33	3F	101	CYC	C1B-NB-C4B	-2.88	107.00	110.67
43	bE	616	BCR	C23-C24-C25	-2.88	119.12	127.20
33	bI	201	CYC	OB-C4B-C3B	-2.88	124.92	128.04
33	BI	301	CYC	C1B-C2B-C3B	-2.88	104.87	107.87
33	e7	201	CYC	C1B-C2B-C3B	-2.88	104.87	107.87
47	vE	201	HEM	CAD-CBD-CGD	-2.88	107.41	113.60
43	cE	519	BCR	C10-C11-C12	-2.88	114.24	123.22
33	i9	202	CYC	C1B-C2B-C3B	-2.88	104.87	107.87
33	sB	201	CYC	C4A-C3A-C2A	-2.88	103.21	106.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	T4	201	CYC	CHA-C1A-C2A	-2.88	118.68	125.32
33	e5	201	CYC	C1B-C2B-C3B	-2.87	104.87	107.87
36	BE	613	CLA	CHB-C4A-NA	2.87	128.49	124.51
33	ZF	201	CYC	C2A-C1A-NA	2.87	114.23	110.05
33	v4	201	CYC	C4A-C3A-C2A	-2.87	103.21	106.51
36	b1	603	CLA	CMB-C2B-C3B	2.87	130.06	124.68
47	v1	201	HEM	C4D-ND-C1D	2.87	108.04	105.07
33	b9	201	CYC	OB-C4B-C3B	-2.87	124.92	128.04
33	3F	102	CYC	CMA-C3A-C4A	2.87	129.49	125.06
45	a1	413	PHO	O2A-CGA-CBA	2.87	120.92	111.91
47	V1	201	HEM	CAD-CBD-CGD	-2.87	107.42	113.60
33	k9	201	CYC	C1B-C2B-C3B	-2.87	104.88	107.87
33	eC	201	CYC	C1B-C2B-C3B	-2.87	104.88	107.87
36	CD	506	CLA	C2A-C1A-CHA	2.87	128.88	123.86
33	o4	201	CYC	CMC-C2C-C1C	-2.87	106.22	112.40
43	c1	519	BCR	C10-C11-C12	-2.87	114.26	123.22
45	A1	412	PHO	C11-C12-C13	2.87	125.20	115.92
33	aK	201	CYC	C4D-CHA-C1A	-2.87	125.38	128.81
33	iH	202	CYC	C1B-C2B-C3B	-2.87	104.88	107.87
33	JG	201	CYC	CBD-CAD-C3D	-2.87	107.72	112.62
36	bE	614	CLA	CHB-C4A-NA	2.87	128.48	124.51
33	3K	101	CYC	C1B-NB-C4B	-2.87	107.02	110.67
33	e2	201	CYC	C1B-C2B-C3B	-2.87	104.88	107.87
33	i7	202	CYC	C1B-C2B-C3B	-2.87	104.88	107.87
47	VD	201	HEM	CAD-CBD-CGD	-2.87	107.43	113.60
33	5G	201	CYC	C4A-C3A-C2A	-2.87	103.22	106.51
33	IG	201	CYC	C2B-C1B-NB	2.87	111.18	106.99
33	BA	301	CYC	C1B-C2B-C3B	-2.87	104.88	107.87
36	BE	601	CLA	CMB-C2B-C3B	2.87	130.04	124.68
33	9K	201	CYC	C2C-C3C-C4C	-2.87	97.05	101.34
33	w4	201	CYC	C1B-C2B-C3B	-2.87	104.88	107.87
33	i6	202	CYC	C1B-C2B-C3B	-2.87	104.88	107.87
38	D1	413	SQD	O9-S-C6	2.86	110.34	106.94
33	2G	101	CYC	CAA-CBA-CGA	-2.86	107.44	113.60
47	v1	201	HEM	CAD-CBD-CGD	-2.86	107.44	113.60
33	IL	201	CYC	CAA-C2A-C1A	2.86	130.07	125.01
33	5L	201	CYC	C4A-C3A-C2A	-2.86	103.22	106.51
36	h1	102	CLA	CMB-C2B-C3B	2.86	130.03	124.68
43	C1	520	BCR	C15-C16-C17	-2.86	117.61	123.47
44	cD	517	DGD	O1G-C1A-C2A	2.86	120.89	111.91
44	cE	517	DGD	O1G-C1A-C2A	2.86	120.89	111.91
33	eA	201	CYC	C1B-C2B-C3B	-2.86	104.88	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	aE	412	PHO	O2A-CGA-CBA	2.86	120.89	111.91
47	vD	201	HEM	CAD-CBD-CGD	-2.86	107.44	113.60
43	bD	616	BCR	C23-C24-C25	-2.86	119.16	127.20
33	9F	201	CYC	C2C-C3C-C4C	-2.86	97.05	101.34
43	XE	102	BCR	C20-C21-C22	-2.86	123.23	127.31
33	j6	202	CYC	CMB-C2B-C1B	2.86	127.74	124.17
33	KF	201	CYC	CAA-C2A-C1A	2.86	130.07	125.01
43	b1	616	BCR	C23-C24-C25	-2.86	119.17	127.20
36	hE	102	CLA	CMB-C2B-C3B	2.86	130.03	124.68
33	kH	201	CYC	C1B-C2B-C3B	-2.86	104.89	107.87
33	gJ	202	CYC	C1B-C2B-C3B	-2.86	104.89	107.87
33	j9	202	CYC	CMB-C2B-C1B	2.86	127.74	124.17
33	iJ	201	CYC	CHA-C1A-NA	-2.86	124.86	128.83
33	k3	201	CYC	C1B-C2B-C3B	-2.86	104.89	107.87
36	CE	506	CLA	C2A-C1A-CHA	2.86	128.86	123.86
36	BD	613	CLA	C1B-CHB-C4A	-2.86	124.45	130.12
43	BE	615	BCR	C20-C21-C22	-2.86	123.23	127.31
33	2L	101	CYC	CAA-CBA-CGA	-2.86	107.45	113.60
43	ZE	101	BCR	C33-C5-C6	-2.86	121.32	124.53
33	3K	102	CYC	CMA-C3A-C4A	2.86	129.47	125.06
43	B1	615	BCR	C23-C24-C25	-2.86	119.17	127.20
36	b1	614	CLA	C1B-CHB-C4A	-2.86	124.46	130.12
33	nF	201	CYC	C2C-C1C-NC	2.86	110.74	108.27
33	s4	201	CYC	CMB-C2B-C1B	2.86	127.73	124.17
33	PG	201	CYC	C2C-C1C-NC	2.86	110.74	108.27
33	C4	1002	CYC	C4A-C3A-C2A	-2.86	103.23	106.51
43	BE	615	BCR	C23-C24-C25	-2.86	119.18	127.20
36	bE	614	CLA	C1B-CHB-C4A	-2.86	124.46	130.12
43	BD	615	BCR	C23-C24-C25	-2.86	119.18	127.20
33	b2	201	CYC	OB-C4B-C3B	-2.86	124.94	128.04
33	kJ	201	CYC	C1B-C2B-C3B	-2.85	104.89	107.87
33	aF	201	CYC	C4D-CHA-C1A	-2.85	125.40	128.81
33	f6	201	CYC	OB-C4B-C3B	-2.85	124.94	128.04
33	IL	201	CYC	C2B-C1B-NB	2.85	111.17	106.99
33	s4	201	CYC	C4A-C3A-C2A	-2.85	103.23	106.51
36	HE	102	CLA	CMB-C2B-C3B	2.85	130.02	124.68
33	oB	201	CYC	CMC-C2C-C1C	-2.85	106.25	112.40
36	hD	102	CLA	CMB-C2B-C3B	2.85	130.01	124.68
33	B4	1003	CYC	C1B-CHB-C4A	2.85	135.05	128.08
36	HD	102	CLA	CMB-C2B-C3B	2.85	130.01	124.68
33	wB	201	CYC	C1B-C2B-C3B	-2.85	104.89	107.87
36	AE	405	CLA	C1B-CHB-C4A	-2.85	124.47	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	i6	201	CYC	CHA-C1A-NA	-2.85	124.87	128.83
33	vB	201	CYC	C4A-C3A-C2A	-2.85	103.23	106.51
33	IG	201	CYC	CAA-C2A-C1A	2.85	130.05	125.01
36	BE	610	CLA	O2D-CGD-O1D	-2.85	118.26	123.84
43	CE	520	BCR	C15-C16-C17	-2.85	117.63	123.47
33	KK	201	CYC	CAA-C2A-C1A	2.85	130.05	125.01
45	dD	402	PHO	C1A-C2A-C3A	-2.85	100.13	102.84
33	BB	1003	CYC	C1B-CHB-C4A	2.85	135.04	128.08
36	bD	614	CLA	C1B-CHB-C4A	-2.85	124.47	130.12
44	c1	517	DGD	O1G-C1A-C2A	2.85	120.85	111.91
43	XD	102	BCR	C20-C21-C22	-2.85	123.25	127.31
33	k2	201	CYC	C1B-C2B-C3B	-2.85	104.90	107.87
43	CD	520	BCR	C15-C16-C17	-2.85	117.64	123.47
33	k5	201	CYC	C1B-C2B-C3B	-2.85	104.90	107.87
33	kA	201	CYC	C1B-C2B-C3B	-2.85	104.90	107.87
33	CB	1002	CYC	C4A-C3A-C2A	-2.85	103.24	106.51
33	gH	202	CYC	C1B-C2B-C3B	-2.85	104.90	107.87
47	vD	201	HEM	C4D-ND-C1D	2.84	108.01	105.07
36	B1	606	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
36	BE	601	CLA	C2D-C1D-ND	-2.84	108.01	110.10
36	B1	610	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
33	kC	201	CYC	C1B-C2B-C3B	-2.84	104.90	107.87
36	iD	101	CLA	CHB-C4A-NA	2.84	128.44	124.51
33	B6	301	CYC	C1B-C2B-C3B	-2.84	104.91	107.87
36	iE	101	CLA	CHB-C4A-NA	2.84	128.44	124.51
33	ZK	201	CYC	C2A-C1A-NA	2.84	114.18	110.05
33	jJ	202	CYC	CMB-C2B-C1B	2.84	127.72	124.17
36	cD	504	CLA	O2A-CGA-O1A	-2.84	116.42	123.59
33	NF	101	CYC	CBA-CAA-C2A	-2.84	104.73	112.63
33	j5	202	CYC	CMB-C2B-C1B	2.84	127.71	124.17
33	nK	201	CYC	C2C-C1C-NC	2.84	110.72	108.27
36	BD	610	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
36	c1	506	CLA	CHB-C4A-NA	2.84	128.44	124.51
33	kI	201	CYC	C1B-C2B-C3B	-2.84	104.91	107.87
33	sB	201	CYC	CMB-C2B-C1B	2.84	127.71	124.17
36	BE	613	CLA	C1B-CHB-C4A	-2.84	124.49	130.12
33	oB	201	CYC	CHB-C1B-NB	-2.84	119.96	126.06
38	DE	414	SQD	O9-S-C6	2.84	110.31	106.94
33	B3	301	CYC	C1B-C2B-C3B	-2.84	104.91	107.87
43	zE	101	BCR	C11-C10-C9	-2.84	123.26	127.31
36	CD	507	CLA	CMB-C2B-C3B	2.84	129.99	124.68
33	bJ	201	CYC	OB-C4B-C3B	-2.84	124.96	128.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	IF	201	CYC	C4A-C3A-C2A	-2.84	103.25	106.51
33	j2	202	CYC	CMB-C2B-C1B	2.84	127.71	124.17
43	hE	105	BCR	C20-C21-C22	-2.84	123.26	127.31
33	k6	201	CYC	C1B-C2B-C3B	-2.84	104.91	107.87
33	T4	201	CYC	CHD-C4C-NC	2.84	128.58	125.20
33	i9	201	CYC	CHA-C1A-NA	-2.84	124.89	128.83
43	zE	101	BCR	C30-C25-C26	-2.84	118.62	122.61
33	i2	202	CYC	CMC-C2C-C1C	-2.84	106.29	112.40
33	i7	202	CYC	CMC-C2C-C1C	-2.84	106.29	112.40
43	hD	105	BCR	C20-C21-C22	-2.84	123.26	127.31
36	H1	102	CLA	CMB-C2B-C3B	2.84	129.98	124.68
33	iI	201	CYC	CHA-C1A-NA	-2.84	124.89	128.83
36	c1	503	CLA	O2A-CGA-O1A	-2.84	116.44	123.59
33	MG	201	CYC	OB-C4B-NB	-2.83	118.49	125.08
33	cJ	201	CYC	C1B-C2B-C3B	-2.83	104.91	107.87
33	i3	202	CYC	CMC-C2C-C1C	-2.83	106.29	112.40
45	DD	401	PHO	C4A-C3A-C2A	-2.83	100.14	102.84
36	B1	613	CLA	C1B-CHB-C4A	-2.83	124.50	130.12
36	cE	511	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
33	jC	202	CYC	CMB-C2B-C1B	2.83	127.70	124.17
33	NK	101	CYC	CBA-CAA-C2A	-2.83	104.75	112.63
33	ML	201	CYC	OB-C4B-NB	-2.83	118.49	125.08
33	q4	201	CYC	CAA-C2A-C1A	2.83	130.02	125.01
33	oB	201	CYC	C4A-C3A-C2A	-2.83	103.25	106.51
36	cD	511	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
47	vE	201	HEM	C4D-ND-C1D	2.83	108.00	105.07
36	hD	102	CLA	CHB-C4A-NA	2.83	128.43	124.51
33	B9	301	CYC	C1B-C2B-C3B	-2.83	104.92	107.87
43	BD	615	BCR	C20-C21-C22	-2.83	123.27	127.31
33	iH	201	CYC	CHA-C1A-NA	-2.83	124.90	128.83
38	DD	414	SQD	O9-S-C6	2.83	110.30	106.94
33	k6	201	CYC	CMC-C2C-C1C	-2.83	106.30	112.40
33	kC	201	CYC	CMC-C2C-C1C	-2.83	106.30	112.40
33	i7	201	CYC	CHA-C1A-NA	-2.83	124.90	128.83
33	k8	201	CYC	C1B-C2B-C3B	-2.83	104.92	107.87
36	AD	405	CLA	C1B-CHB-C4A	-2.83	124.51	130.12
43	zD	101	BCR	C11-C10-C9	-2.83	123.27	127.31
33	j3	202	CYC	CMB-C2B-C1B	2.83	127.70	124.17
33	o4	201	CYC	CHB-C1B-NB	-2.83	119.98	126.06
36	A1	405	CLA	C1B-CHB-C4A	-2.83	124.52	130.12
33	qB	201	CYC	CAA-C2A-C1A	2.83	130.01	125.01
43	zD	101	BCR	C30-C25-C26	-2.83	118.63	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BD	606	CLA	O2D-CGD-O1D	-2.83	118.31	123.84
36	AE	405	CLA	C3A-C2A-C1A	2.83	105.57	101.34
36	cE	504	CLA	O2A-CGA-O1A	-2.83	116.46	123.59
36	AD	405	CLA	C3A-C2A-C1A	2.83	105.57	101.34
33	o4	201	CYC	C4A-C3A-C2A	-2.83	103.26	106.51
33	bK	201	CYC	C4A-C3A-C2A	-2.83	103.26	106.51
43	z1	101	BCR	C11-C10-C9	-2.83	123.28	127.31
33	YK	201	CYC	CBA-CAA-C2A	-2.83	104.78	112.63
33	kJ	201	CYC	CMC-C2C-C1C	-2.83	106.31	112.40
33	iI	202	CYC	C1B-C2B-C3B	-2.82	104.92	107.87
36	BE	606	CLA	O2D-CGD-O1D	-2.82	118.31	123.84
36	h1	102	CLA	CHB-C4A-NA	2.82	128.42	124.51
33	jH	202	CYC	CMB-C2B-C1B	2.82	127.69	124.17
33	B7	301	CYC	C1B-C2B-C3B	-2.82	104.92	107.87
33	i8	201	CYC	CHA-C1A-NA	-2.82	124.91	128.83
33	7L	201	CYC	OC-C1C-C2C	-2.82	123.93	126.17
33	1L	201	CYC	C1A-C2A-C3A	-2.82	103.66	106.78
43	CD	516	BCR	C16-C15-C14	-2.82	117.69	123.47
33	e7	201	CYC	OC-C1C-C2C	-2.82	123.93	126.17
33	b6	201	CYC	OB-C4B-C3B	-2.82	124.98	128.04
36	hE	102	CLA	CHB-C4A-NA	2.82	128.41	124.51
43	h1	105	BCR	C20-C21-C22	-2.82	123.28	127.31
36	C1	507	CLA	CMB-C2B-C3B	2.82	129.96	124.68
33	B4	1004	CYC	OC-C1C-NC	2.82	128.36	124.94
33	dF	201	CYC	CBA-CAA-C2A	-2.82	104.79	112.63
33	i5	201	CYC	CHA-C1A-NA	-2.82	124.91	128.83
36	c1	511	CLA	O2D-CGD-O1D	-2.82	118.32	123.84
36	bE	611	CLA	O2D-CGD-O1D	-2.82	118.32	123.84
36	CE	507	CLA	CMB-C2B-C3B	2.82	129.96	124.68
33	XB	201	CYC	CAA-C2A-C1A	2.82	130.00	125.01
33	i8	202	CYC	CMC-C2C-C1C	-2.82	106.32	112.40
33	jA	202	CYC	CMB-C2B-C1B	2.82	127.69	124.17
36	b1	611	CLA	O2D-CGD-O1D	-2.82	118.32	123.84
33	k3	201	CYC	CMC-C2C-C1C	-2.82	106.32	112.40
33	kF	201	CYC	C4A-C3A-C2A	-2.82	103.27	106.51
33	5G	201	CYC	C2C-C1C-NC	2.82	110.70	108.27
33	YF	201	CYC	CBA-CAA-C2A	-2.82	104.79	112.63
33	jI	202	CYC	CMB-C2B-C1B	2.82	127.69	124.17
33	o4	201	CYC	CHA-C1A-C2A	-2.82	118.81	125.32
33	i5	202	CYC	CMC-C2C-C1C	-2.82	106.33	112.40
33	vB	201	CYC	C2C-C1C-NC	2.82	110.70	108.27
33	iH	202	CYC	CMC-C2C-C1C	-2.82	106.33	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	i3	201	CYC	CHA-C1A-NA	-2.82	124.92	128.83
33	g8	202	CYC	C1B-C2B-C3B	-2.82	104.93	107.87
43	z1	101	BCR	C30-C25-C26	-2.82	118.64	122.61
33	hF	201	CYC	CBA-CAA-C2A	-2.82	104.80	112.63
43	B1	615	BCR	C20-C21-C22	-2.82	123.29	127.31
36	A1	405	CLA	C3A-C2A-C1A	2.82	105.56	101.34
36	CE	514	CLA	CHB-C4A-NA	2.82	128.41	124.51
36	bD	611	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
33	i9	202	CYC	CMC-C2C-C1C	-2.82	106.33	112.40
33	k9	201	CYC	CMC-C2C-C1C	-2.82	106.33	112.40
33	B2	301	CYC	C1B-C2B-C3B	-2.82	104.93	107.87
33	iJ	202	CYC	CMC-C2C-C1C	-2.82	106.33	112.40
33	JG	201	CYC	C2A-C1A-NA	2.82	114.14	110.05
33	3F	101	CYC	C2A-C1A-NA	2.82	114.14	110.05
43	CE	516	BCR	C16-C15-C14	-2.82	117.71	123.47
33	IK	201	CYC	C4A-C3A-C2A	-2.82	103.28	106.51
33	kI	201	CYC	CMC-C2C-C1C	-2.82	106.33	112.40
36	C1	514	CLA	CHB-C4A-NA	2.82	128.41	124.51
36	hE	101	CLA	CHC-C1C-NC	2.82	128.47	124.20
33	kH	201	CYC	CMC-C2C-C1C	-2.82	106.33	112.40
33	JL	201	CYC	C2A-C1A-NA	2.81	114.14	110.05
36	CD	514	CLA	CHB-C4A-NA	2.81	128.40	124.51
33	7G	201	CYC	OC-C1C-C2C	-2.81	123.94	126.17
33	jF	201	CYC	CHB-C1B-NB	-2.81	120.02	126.06
33	iI	202	CYC	CMC-C2C-C1C	-2.81	106.34	112.40
43	bD	616	BCR	C20-C21-C22	-2.81	123.30	127.31
33	dK	201	CYC	CBA-CAA-C2A	-2.81	104.81	112.63
33	hK	201	CYC	CBA-CAA-C2A	-2.81	104.81	112.63
33	i6	202	CYC	CMC-C2C-C1C	-2.81	106.34	112.40
33	3F	102	CYC	C4A-C3A-C2A	-2.81	103.28	106.51
33	k2	201	CYC	CMC-C2C-C1C	-2.81	106.34	112.40
33	g5	202	CYC	C1B-C2B-C3B	-2.81	104.94	107.87
33	RG	201	CYC	CMB-C2B-C1B	2.81	127.68	124.17
33	iC	202	CYC	CMC-C2C-C1C	-2.81	106.34	112.40
33	fF	201	CYC	OC-C1C-C2C	-2.81	123.94	126.17
33	k8	201	CYC	CMC-C2C-C1C	-2.81	106.34	112.40
33	B3	301	CYC	CMC-C2C-C1C	-2.81	106.34	112.40
33	k5	201	CYC	CMC-C2C-C1C	-2.81	106.35	112.40
36	CD	511	CLA	CMB-C2B-C3B	2.81	129.94	124.68
33	jK	201	CYC	CHB-C1B-NB	-2.81	120.03	126.06
33	RL	201	CYC	CBC-CAC-C3C	-2.81	107.21	113.47
33	oB	201	CYC	CHA-C1A-C2A	-2.81	118.83	125.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	k7	201	CYC	CMC-C2C-C1C	-2.81	106.35	112.40
33	TB	201	CYC	CHD-C4C-NC	2.81	128.54	125.20
33	iA	202	CYC	CMC-C2C-C1C	-2.81	106.35	112.40
33	X4	201	CYC	CAA-C2A-C1A	2.81	129.97	125.01
33	kK	201	CYC	C4A-C3A-C2A	-2.81	103.29	106.51
33	5L	201	CYC	C2C-C1C-NC	2.81	110.69	108.27
33	nK	201	CYC	CMB-C2B-C1B	2.81	127.67	124.17
36	C1	506	CLA	CHD-C1D-ND	-2.81	121.88	124.45
36	hD	101	CLA	CHC-C1C-NC	2.81	128.46	124.20
43	C1	516	BCR	C16-C15-C14	-2.81	117.73	123.47
36	b1	608	CLA	O2D-CGD-O1D	-2.80	118.35	123.84
36	B1	601	CLA	C2D-C1D-ND	-2.80	108.04	110.10
33	BB	1004	CYC	OC-C1C-NC	2.80	128.34	124.94
33	c5	201	CYC	C1B-C2B-C3B	-2.80	104.94	107.87
36	cE	505	CLA	C2A-C1A-CHA	2.80	128.76	123.86
36	h1	101	CLA	CHC-C1C-NC	2.80	128.46	124.20
33	BA	301	CYC	CMC-C2C-C1C	-2.80	106.36	112.40
43	bE	616	BCR	C20-C21-C22	-2.80	123.31	127.31
33	BC	301	CYC	CMC-C2C-C1C	-2.80	106.36	112.40
36	C1	511	CLA	CMB-C2B-C3B	2.80	129.92	124.68
33	e5	201	CYC	CMC-C2C-C1C	-2.80	106.36	112.40
33	nF	201	CYC	CMB-C2B-C1B	2.80	127.67	124.17
36	bE	608	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
33	c8	201	CYC	C1B-C2B-C3B	-2.80	104.95	107.87
36	HE	102	CLA	CHB-C4A-NA	2.80	128.38	124.51
33	1G	201	CYC	C1A-C2A-C3A	-2.80	103.68	106.78
36	HD	102	CLA	CHB-C4A-NA	2.80	128.38	124.51
37	a1	409	PL9	C53-C6-C1	2.80	120.71	114.99
36	bD	614	CLA	CMB-C2B-C3B	2.80	129.91	124.68
33	iC	201	CYC	CHA-C1A-NA	-2.80	124.94	128.83
33	j5	202	CYC	CHA-C1A-NA	-2.80	124.95	128.83
36	c1	507	CLA	C1B-CHB-C4A	-2.80	124.58	130.12
33	c9	201	CYC	C1B-C2B-C3B	-2.80	104.95	107.87
43	b1	616	BCR	C20-C21-C22	-2.80	123.32	127.31
36	cD	505	CLA	C2A-C1A-CHA	2.80	128.75	123.86
33	e8	201	CYC	OC-C1C-C2C	-2.80	123.95	126.17
37	aD	408	PL9	C53-C6-C1	2.80	120.71	114.99
36	bD	608	CLA	O2D-CGD-O1D	-2.80	118.37	123.84
33	uB	201	CYC	CAD-CBD-CGD	-2.80	105.92	113.76
33	kA	201	CYC	CMC-C2C-C1C	-2.80	106.38	112.40
33	bF	201	CYC	C4A-C3A-C2A	-2.80	103.30	106.51
43	ZD	101	BCR	C33-C5-C6	-2.80	121.39	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	g8	202	CYC	CMC-C2C-C1C	-2.79	106.38	112.40
36	C1	509	CLA	CHB-C4A-NA	2.79	128.38	124.51
36	c1	504	CLA	C2A-C1A-CHA	2.79	128.74	123.86
33	RG	201	CYC	CBC-CAC-C3C	-2.79	107.25	113.47
33	B2	301	CYC	CMC-C2C-C1C	-2.79	106.38	112.40
33	RL	201	CYC	CMB-C2B-C1B	2.79	127.65	124.17
33	j7	202	CYC	CMB-C2B-C1B	2.79	127.65	124.17
36	c1	507	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
43	ZE	101	BCR	C30-C25-C26	-2.79	118.68	122.61
39	TE	101	LMG	O7-C10-C11	2.79	117.52	111.50
33	f6	201	CYC	C1B-C2B-C3B	-2.79	104.96	107.87
33	f7	201	CYC	C1B-C2B-C3B	-2.79	104.96	107.87
33	B9	301	CYC	CMC-C2C-C1C	-2.79	106.39	112.40
36	b1	614	CLA	CMB-C2B-C3B	2.79	129.90	124.68
33	B6	301	CYC	CMC-C2C-C1C	-2.79	106.39	112.40
33	VG	201	CYC	CAA-C2A-C1A	2.79	129.94	125.01
33	7G	201	CYC	CAA-C2A-C1A	2.79	129.94	125.01
36	CE	506	CLA	CHD-C1D-ND	-2.79	121.89	124.45
33	fK	201	CYC	OC-C1C-C2C	-2.79	123.95	126.17
33	e3	201	CYC	CMC-C2C-C1C	-2.79	106.39	112.40
36	H1	102	CLA	CHB-C4A-NA	2.79	128.37	124.51
36	bE	614	CLA	CMB-C2B-C3B	2.79	129.90	124.68
33	3K	101	CYC	C2A-C1A-NA	2.79	114.11	110.05
33	e2	201	CYC	CMC-C2C-C1C	-2.79	106.39	112.40
33	eC	201	CYC	CMC-C2C-C1C	-2.79	106.39	112.40
33	gH	202	CYC	CMC-C2C-C1C	-2.79	106.39	112.40
36	CE	511	CLA	CMB-C2B-C3B	2.79	129.89	124.68
36	BD	601	CLA	C2D-C1D-ND	-2.79	108.05	110.10
37	aE	408	PL9	C53-C6-C1	2.79	120.69	114.99
33	7L	201	CYC	CAA-C2A-C1A	2.79	129.94	125.01
33	iA	201	CYC	CHA-C1A-NA	-2.79	124.96	128.83
33	eH	201	CYC	CMC-C2C-C1C	-2.79	106.40	112.40
33	jC	202	CYC	CHA-C1A-NA	-2.79	124.96	128.83
33	VB	201	CYC	C4A-C3A-C2A	-2.79	103.31	106.51
33	fF	201	CYC	C4A-C3A-C2A	-2.79	103.31	106.51
33	eJ	201	CYC	CMC-C2C-C1C	-2.79	106.40	112.40
33	eC	201	CYC	OC-C1C-C2C	-2.79	123.96	126.17
33	f9	201	CYC	C1B-C2B-C3B	-2.79	104.96	107.87
33	W4	201	CYC	CHB-C1B-NB	-2.79	120.08	126.06
33	eI	201	CYC	CMC-C2C-C1C	-2.79	106.40	112.40
33	i2	201	CYC	CHA-C1A-NA	-2.79	124.96	128.83
36	bE	613	CLA	C1B-CHB-C4A	-2.79	124.60	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	c1	515	BCR	C2-C3-C4	-2.78	105.16	111.38
33	IL	201	CYC	C2A-C1A-NA	2.78	114.10	110.05
33	VL	201	CYC	CAA-C2A-C1A	2.78	129.93	125.01
33	e9	201	CYC	CMC-C2C-C1C	-2.78	106.40	112.40
33	c6	201	CYC	C1B-C2B-C3B	-2.78	104.97	107.87
33	fH	201	CYC	C1B-C2B-C3B	-2.78	104.97	107.87
33	u4	201	CYC	CAD-CBD-CGD	-2.78	105.95	113.76
39	T1	101	LMG	O7-C10-C11	2.78	117.50	111.50
33	GG	201	CYC	CMC-C2C-C1C	-2.78	106.40	112.40
37	AD	406	PL9	C15-C14-C16	2.78	119.95	115.27
33	fC	201	CYC	C1B-C2B-C3B	-2.78	104.97	107.87
43	ZD	101	BCR	C30-C25-C26	-2.78	118.69	122.61
33	j6	202	CYC	CHA-C1A-NA	-2.78	124.97	128.83
36	CD	506	CLA	CHD-C1D-ND	-2.78	121.90	124.45
36	b1	613	CLA	C1B-CHB-C4A	-2.78	124.61	130.12
43	Z1	101	BCR	C30-C25-C26	-2.78	118.69	122.61
36	bE	603	CLA	C2D-C1D-ND	-2.78	108.05	110.10
33	j9	202	CYC	CHA-C1A-NA	-2.78	124.97	128.83
33	3K	102	CYC	C4A-C3A-C2A	-2.78	103.31	106.51
43	eE	515	BCR	C2-C3-C4	-2.78	105.16	111.38
33	B7	301	CYC	CMC-C2C-C1C	-2.78	106.41	112.40
39	TD	101	LMG	O7-C10-C11	2.78	117.50	111.50
43	ZD	101	BCR	C11-C10-C9	-2.78	123.34	127.31
33	KF	201	CYC	C1A-C2A-C3A	-2.78	103.70	106.78
33	gJ	202	CYC	CMC-C2C-C1C	-2.78	106.41	112.40
33	j8	202	CYC	CMB-C2B-C1B	2.78	127.64	124.17
33	mF	201	CYC	CAA-C2A-C1A	2.78	129.93	125.01
36	bD	613	CLA	C1B-CHB-C4A	-2.78	124.61	130.12
33	e6	201	CYC	CMC-C2C-C1C	-2.78	106.41	112.40
33	NF	101	CYC	CMD-C2D-C3D	-2.78	119.70	124.94
33	qB	201	CYC	C4A-C3A-C2A	-2.78	103.32	106.51
33	fA	201	CYC	C1B-C2B-C3B	-2.78	104.97	107.87
33	e8	201	CYC	CMC-C2C-C1C	-2.78	106.41	112.40
36	CD	509	CLA	CHB-C4A-NA	2.78	128.35	124.51
33	f2	201	CYC	C1B-C2B-C3B	-2.78	104.97	107.87
33	gF	201	CYC	C1B-CHB-C4A	2.78	134.87	128.08
33	f8	201	CYC	C1B-C2B-C3B	-2.78	104.97	107.87
36	bD	608	CLA	C1B-CHB-C4A	-2.78	124.62	130.12
33	cH	201	CYC	C1B-C2B-C3B	-2.78	104.97	107.87
33	IG	201	CYC	CMA-C3A-C2A	-2.78	118.58	126.12
36	BE	606	CLA	C1B-CHB-C4A	-2.78	124.62	130.12
36	CE	512	CLA	CHB-C4A-NA	2.78	128.35	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	c1	502	CLA	CMB-C2B-C3B	2.78	129.87	124.68
43	Z1	101	BCR	C11-C10-C9	-2.77	123.35	127.31
33	f3	201	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
36	b1	608	CLA	C1B-CHB-C4A	-2.77	124.62	130.12
33	IG	201	CYC	C2A-C1A-NA	2.77	114.08	110.05
37	A1	406	PL9	C15-C14-C16	2.77	119.94	115.27
43	cD	515	BCR	C2-C3-C4	-2.77	105.18	111.38
36	B1	604	CLA	O2D-CGD-CBD	2.77	116.20	111.27
33	e5	201	CYC	OC-C1C-C2C	-2.77	123.97	126.17
33	g5	202	CYC	CMC-C2C-C1C	-2.77	106.43	112.40
43	CD	520	BCR	C21-C20-C19	-2.77	114.56	123.22
33	gK	201	CYC	C1B-CHB-C4A	2.77	134.85	128.08
36	cE	507	CLA	C1B-CHB-C4A	-2.77	124.63	130.12
36	cD	507	CLA	O2D-CGD-O1D	-2.77	118.42	123.84
33	q4	201	CYC	C4A-C3A-C2A	-2.77	103.33	106.51
33	eA	201	CYC	CMC-C2C-C1C	-2.77	106.43	112.40
36	BD	606	CLA	C1B-CHB-C4A	-2.77	124.63	130.12
33	cI	201	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
33	QL	201	CYC	C1B-CHB-C4A	2.77	134.85	128.08
37	AE	406	PL9	C15-C14-C16	2.77	119.93	115.27
33	g3	201	CYC	CHA-C1A-NA	-2.77	124.99	128.83
36	CE	506	CLA	O2D-CGD-O1D	-2.77	118.42	123.84
36	b1	606	CLA	O2D-CGD-CBD	2.77	116.19	111.27
36	B1	613	CLA	CMB-C2B-C3B	2.77	129.86	124.68
33	fI	201	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
33	e7	201	CYC	CMC-C2C-C1C	-2.77	106.44	112.40
36	BD	604	CLA	O2D-CGD-CBD	2.77	116.19	111.27
36	B1	606	CLA	C1B-CHB-C4A	-2.77	124.64	130.12
40	jE	101	LMT	O5'-C1'-O1'	-2.77	103.42	109.97
36	cD	503	CLA	CMB-C2B-C3B	2.77	129.85	124.68
36	cD	507	CLA	C1B-CHB-C4A	-2.77	124.64	130.12
33	GL	201	CYC	CMC-C2C-C1C	-2.77	106.44	112.40
33	cA	201	CYC	CMC-C2C-C1C	-2.77	106.44	112.40
33	c3	201	CYC	C1B-C2B-C3B	-2.77	104.98	107.87
33	mK	201	CYC	CAA-C2A-C1A	2.77	129.90	125.01
36	bE	608	CLA	C1B-CHB-C4A	-2.77	124.64	130.12
33	BI	301	CYC	CMC-C2C-C1C	-2.76	106.44	112.40
33	fK	201	CYC	C4A-C3A-C2A	-2.76	103.33	106.51
43	ZE	101	BCR	C11-C10-C9	-2.76	123.36	127.31
33	cC	201	CYC	C1B-C2B-C3B	-2.76	104.99	107.87
33	WB	201	CYC	CHB-C1B-NB	-2.76	120.12	126.06
43	CE	520	BCR	C21-C20-C19	-2.76	114.59	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	c9	201	CYC	CMC-C2C-C1C	-2.76	106.45	112.40
33	l8	201	CYC	C1B-C2B-C3B	-2.76	104.99	107.87
33	c6	201	CYC	CMC-C2C-C1C	-2.76	106.45	112.40
36	BE	604	CLA	O2D-CGD-CBD	2.76	116.18	111.27
36	HE	102	CLA	O2D-CGD-O1D	-2.76	118.44	123.84
36	CE	509	CLA	CHB-C4A-NA	2.76	128.33	124.51
33	eJ	201	CYC	OC-C1C-C2C	-2.76	123.98	126.17
33	7L	201	CYC	CAD-CBD-CGD	-2.76	106.02	113.76
36	HD	102	CLA	O2D-CGD-O1D	-2.76	118.44	123.84
33	c8	201	CYC	CMC-C2C-C1C	-2.76	106.46	112.40
33	c2	201	CYC	C1B-C2B-C3B	-2.76	104.99	107.87
33	7G	201	CYC	CAD-CBD-CGD	-2.76	106.03	113.76
33	cI	201	CYC	CMC-C2C-C1C	-2.76	106.46	112.40
36	B1	612	CLA	C1B-CHB-C4A	-2.76	124.65	130.12
33	jH	202	CYC	CHA-C1A-NA	-2.76	125.00	128.83
36	h1	102	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
36	cE	507	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
33	GG	201	CYC	C4D-CHA-C1A	2.76	132.10	128.81
43	C1	520	BCR	C21-C20-C19	-2.76	114.61	123.22
33	gF	201	CYC	C1A-NA-C4A	-2.76	101.31	106.51
33	c2	202	CYC	CHA-C1A-NA	-2.76	125.00	128.83
33	e9	201	CYC	OC-C1C-C2C	-2.76	123.98	126.17
40	jD	101	LMT	O5'-C1'-O1'	-2.76	103.45	109.97
33	cC	201	CYC	CMC-C2C-C1C	-2.76	106.46	112.40
36	bD	606	CLA	O2D-CGD-CBD	2.76	116.17	111.27
36	C1	508	CLA	C1B-CHB-C4A	-2.75	124.66	130.12
36	H1	102	CLA	O2D-CGD-O1D	-2.75	118.45	123.84
33	IL	201	CYC	CMA-C3A-C2A	-2.75	118.64	126.12
36	BD	613	CLA	CMB-C2B-C3B	2.75	129.83	124.68
33	cJ	201	CYC	CMC-C2C-C1C	-2.75	106.47	112.40
33	gK	201	CYC	C1A-NA-C4A	-2.75	101.32	106.51
33	fJ	201	CYC	C1B-C2B-C3B	-2.75	105.00	107.87
33	e6	201	CYC	OC-C1C-C2C	-2.75	123.98	126.17
33	j8	202	CYC	CHA-C1A-NA	-2.75	125.01	128.83
33	cH	201	CYC	CMC-C2C-C1C	-2.75	106.47	112.40
36	dE	406	CLA	CAA-C2A-C3A	-2.75	105.24	112.78
33	dJ	201	CYC	C1B-C2B-C3B	-2.75	105.00	107.87
33	eC	202	CYC	CHA-C1A-NA	-2.75	125.01	128.83
33	jI	202	CYC	CHA-C1A-NA	-2.75	125.01	128.83
33	e3	201	CYC	OC-C1C-C2C	-2.75	123.98	126.17
33	NK	101	CYC	CMD-C2D-C3D	-2.75	119.75	124.94
33	QG	201	CYC	C1B-CHB-C4A	2.75	134.80	128.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	9K	201	CYC	CMB-C2B-C1B	2.75	127.60	124.17
33	i2	201	CYC	CMB-C2B-C1B	2.75	127.60	124.17
33	j7	202	CYC	CHA-C1A-NA	-2.75	125.01	128.83
36	HD	101	CLA	CHC-C1C-NC	2.75	128.37	124.20
33	jJ	202	CYC	CHA-C1A-NA	-2.75	125.01	128.83
33	C4	1002	CYC	C1B-CHB-C4A	-2.75	121.37	128.08
33	gK	201	CYC	CAC-C3C-C4C	-2.75	105.62	112.67
33	e5	202	CYC	CHA-C1A-NA	-2.75	125.02	128.83
33	CB	1002	CYC	C1B-CHB-C4A	-2.75	121.37	128.08
45	A1	412	PHO	C16-C15-C13	2.75	124.80	115.92
36	hD	102	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
33	c3	201	CYC	CMC-C2C-C1C	-2.75	106.48	112.40
36	cE	504	CLA	CAA-C2A-C3A	-2.75	105.26	112.78
43	ZD	101	BCR	C20-C19-C18	2.75	134.13	126.42
36	HE	101	CLA	CHC-C1C-NC	2.75	128.37	124.20
36	b1	605	CLA	C1B-CHB-C4A	-2.75	124.68	130.12
33	g5	201	CYC	CHA-C1A-NA	-2.75	125.02	128.83
33	KF	201	CYC	C2A-C1A-NA	2.75	114.04	110.05
36	CD	506	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
36	DD	406	CLA	CAA-C2A-C3A	-2.75	105.26	112.78
36	c1	503	CLA	CAA-C2A-C3A	-2.75	105.26	112.78
33	c2	201	CYC	CMC-C2C-C1C	-2.74	106.49	112.40
36	BE	613	CLA	CMB-C2B-C3B	2.74	129.81	124.68
33	l9	201	CYC	C1B-C2B-C3B	-2.74	105.01	107.87
33	lC	201	CYC	C1B-C2B-C3B	-2.74	105.01	107.87
36	cD	504	CLA	CAA-C2A-C3A	-2.74	105.26	112.78
33	c3	202	CYC	CHA-C1A-NA	-2.74	125.02	128.83
33	e7	202	CYC	CHA-C1A-NA	-2.74	125.02	128.83
33	g7	201	CYC	CHA-C1A-NA	-2.74	125.02	128.83
33	V4	201	CYC	C4A-C3A-C2A	-2.74	103.36	106.51
33	g5	201	CYC	CMB-C2B-C1B	2.74	127.59	124.17
43	zE	101	BCR	C20-C19-C18	2.74	134.12	126.42
36	BD	612	CLA	C1B-CHB-C4A	-2.74	124.68	130.12
36	C1	506	CLA	O2D-CGD-O1D	-2.74	118.47	123.84
33	j2	202	CYC	CHA-C1A-NA	-2.74	125.02	128.83
36	DE	406	CLA	CAA-C2A-C3A	-2.74	105.27	112.78
36	CD	512	CLA	CHB-C4A-NA	2.74	128.30	124.51
36	cE	513	CLA	CHB-C4A-NA	2.74	128.30	124.51
37	a1	409	PL9	C7-C8-C9	-2.74	122.23	126.79
33	B4	1001	CYC	CHA-C1A-NA	-2.74	125.02	128.83
33	q4	201	CYC	C1A-C2A-C3A	-2.74	103.75	106.78
36	hE	102	CLA	O2D-CGD-O1D	-2.74	118.48	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	D1	405	CLA	CAA-C2A-C3A	-2.74	105.27	112.78
33	l7	201	CYC	C1B-C2B-C3B	-2.74	105.01	107.87
36	dD	406	CLA	CAA-C2A-C3A	-2.74	105.27	112.78
33	jA	202	CYC	CHA-C1A-NA	-2.74	125.02	128.83
43	BE	617	BCR	C4-C5-C6	-2.74	118.75	122.73
36	d1	406	CLA	CAA-C2A-C3A	-2.74	105.27	112.78
36	cE	503	CLA	CMB-C2B-C3B	2.74	129.81	124.68
36	C1	512	CLA	CHB-C4A-NA	2.74	128.30	124.51
45	DE	403	PHO	C6-C7-C8	2.74	124.78	115.92
33	c7	201	CYC	C1B-C2B-C3B	-2.74	105.01	107.87
33	C4	1002	CYC	OC-C1C-C2C	-2.74	123.99	126.17
33	i7	201	CYC	CMB-C2B-C1B	2.74	127.59	124.17
33	c5	201	CYC	CMC-C2C-C1C	-2.74	106.50	112.40
43	z1	101	BCR	C33-C5-C6	-2.74	121.45	124.53
43	zD	101	BCR	C20-C19-C18	2.74	134.11	126.42
43	CD	516	BCR	C23-C22-C21	-2.74	114.74	118.94
33	l6	201	CYC	C1B-C2B-C3B	-2.74	105.01	107.87
33	h8	201	CYC	C1B-C2B-C3B	-2.74	105.01	107.87
36	bD	605	CLA	C1B-CHB-C4A	-2.74	124.69	130.12
33	iI	201	CYC	CMB-C2B-C1B	2.74	127.59	124.17
33	3K	102	CYC	C1A-C2A-C3A	-2.74	103.75	106.78
33	c7	201	CYC	CMC-C2C-C1C	-2.74	106.50	112.40
33	gI	201	CYC	CMB-C2B-C1B	2.74	127.58	124.17
33	j3	202	CYC	CHA-C1A-NA	-2.74	125.03	128.83
39	tD	101	LMG	O7-C10-C11	2.74	117.40	111.50
33	e9	202	CYC	CHA-C1A-NA	-2.74	125.03	128.83
33	f5	201	CYC	C1B-C2B-C3B	-2.74	105.02	107.87
36	BE	612	CLA	C1B-CHB-C4A	-2.74	124.70	130.12
43	CE	516	BCR	C23-C22-C21	-2.74	114.74	118.94
39	t1	101	LMG	O7-C10-C11	2.74	117.40	111.50
33	c7	202	CYC	CHA-C1A-NA	-2.74	125.03	128.83
40	j1	101	LMT	O5'-C1'-O1'	-2.74	103.49	109.97
33	gF	201	CYC	CAC-C3C-C4C	-2.74	105.65	112.67
37	aE	408	PL9	C7-C8-C9	-2.74	122.24	126.79
36	CD	508	CLA	C1B-CHB-C4A	-2.74	124.70	130.12
33	TG	201	CYC	C1A-C2A-C3A	-2.74	103.75	106.78
36	c1	513	CLA	CHB-C4A-NA	2.74	128.29	124.51
33	c5	202	CYC	CHA-C1A-NA	-2.74	125.03	128.83
33	gH	201	CYC	CHA-C1A-NA	-2.74	125.03	128.83
36	CE	508	CLA	C1B-CHB-C4A	-2.74	124.70	130.12
33	gI	201	CYC	CHA-C1A-NA	-2.73	125.03	128.83
33	KK	201	CYC	C1A-C2A-C3A	-2.73	103.76	106.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	YK	201	CYC	O1A-CGA-CBA	-2.73	114.30	123.08
33	gJ	201	CYC	CMB-C2B-C1B	2.73	127.58	124.17
33	YF	201	CYC	O1A-CGA-CBA	-2.73	114.30	123.08
33	hK	201	CYC	O1A-CGA-CBA	-2.73	114.30	123.08
33	cA	201	CYC	C1B-C2B-C3B	-2.73	105.02	107.87
43	Z1	101	BCR	C33-C5-C6	-2.73	121.46	124.53
36	bE	606	CLA	O2D-CGD-CBD	2.73	116.13	111.27
43	C1	516	BCR	C23-C22-C21	-2.73	114.75	118.94
33	LG	201	CYC	C1A-NA-C4A	-2.73	101.36	106.51
33	c8	202	CYC	CHA-C1A-NA	-2.73	125.03	128.83
36	c1	502	CLA	C1B-CHB-C4A	-2.73	124.70	130.12
33	d6	201	CYC	C1B-C2B-C3B	-2.73	105.02	107.87
33	h7	201	CYC	C1B-C2B-C3B	-2.73	105.02	107.87
33	TL	201	CYC	C1A-C2A-C3A	-2.73	103.76	106.78
33	d7	201	CYC	C1B-C2B-C3B	-2.73	105.02	107.87
33	dA	201	CYC	C1B-C2B-C3B	-2.73	105.02	107.87
33	IH	201	CYC	C1B-C2B-C3B	-2.73	105.02	107.87
33	II	201	CYC	C1B-C2B-C3B	-2.73	105.02	107.87
42	IE	101	LHG	C5-O7-C7	-2.73	111.06	117.79
33	LL	201	CYC	C1A-NA-C4A	-2.73	101.36	106.51
33	JG	201	CYC	OB-C4B-C3B	-2.73	125.08	128.04
33	g2	201	CYC	CMB-C2B-C1B	2.73	127.58	124.17
33	g6	201	CYC	CMB-C2B-C1B	2.73	127.58	124.17
33	gH	201	CYC	CMB-C2B-C1B	2.73	127.58	124.17
33	3F	102	CYC	C1A-C2A-C3A	-2.73	103.76	106.78
33	l3	201	CYC	C1B-C2B-C3B	-2.73	105.02	107.87
36	cE	503	CLA	C1B-CHB-C4A	-2.73	124.71	130.12
43	ZE	101	BCR	C20-C19-C18	2.73	134.08	126.42
33	gA	201	CYC	CHA-C1A-NA	-2.73	125.04	128.83
33	IG	201	CYC	CMC-C2C-C1C	-2.73	106.52	112.40
33	hF	201	CYC	O1A-CGA-CBA	-2.73	114.32	123.08
33	9F	201	CYC	CMB-C2B-C1B	2.73	127.57	124.17
36	B1	609	CLA	CMB-C2B-C1B	-2.73	124.27	128.46
36	bE	605	CLA	C1B-CHB-C4A	-2.73	124.71	130.12
33	JL	201	CYC	OB-C4B-C3B	-2.73	125.08	128.04
33	QG	201	CYC	C1A-NA-C4A	-2.73	101.37	106.51
33	eJ	202	CYC	CHA-C1A-NA	-2.73	125.04	128.83
33	GG	201	CYC	C1A-C2A-C3A	-2.73	103.76	106.78
33	e8	202	CYC	CMB-C2B-C1B	2.73	127.57	124.17
33	gC	201	CYC	CMB-C2B-C1B	2.73	127.57	124.17
37	a1	409	PL9	C15-C14-C16	2.73	119.86	115.27
33	GL	201	CYC	C4D-CHA-C1A	2.73	132.07	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	IE	101	CLA	CHB-C4A-NA	2.73	128.28	124.51
33	g8	201	CYC	CHA-C1A-NA	-2.73	125.04	128.83
36	H1	101	CLA	CHC-C1C-NC	2.73	128.34	124.20
33	i3	201	CYC	CMB-C2B-C1B	2.73	127.57	124.17
33	QL	201	CYC	C1A-NA-C4A	-2.73	101.37	106.51
42	ID	101	LHG	C5-O7-C7	-2.73	111.08	117.79
33	eA	202	CYC	CHA-C1A-NA	-2.73	125.05	128.83
43	zD	101	BCR	C33-C5-C6	-2.73	121.47	124.53
33	iJ	201	CYC	CMB-C2B-C1B	2.73	127.57	124.17
36	B1	603	CLA	C1B-CHB-C4A	-2.73	124.72	130.12
33	e8	202	CYC	CHA-C1A-NA	-2.73	125.05	128.83
33	cH	202	CYC	CHA-C1A-NA	-2.73	125.05	128.83
33	P4	201	CYC	CHB-C1B-C2B	-2.72	121.55	126.95
33	1G	201	CYC	CAD-CBD-CGD	-2.72	106.12	113.76
33	HG	201	CYC	C1A-C2A-C3A	-2.72	103.77	106.78
33	qB	201	CYC	C1A-C2A-C3A	-2.72	103.77	106.78
33	eH	202	CYC	CHA-C1A-NA	-2.72	125.05	128.83
33	dF	201	CYC	O1A-CGA-CBA	-2.72	114.33	123.08
33	1L	201	CYC	CAD-CBD-CGD	-2.72	106.12	113.76
33	eH	201	CYC	OC-C1C-C2C	-2.72	124.01	126.17
33	e3	202	CYC	CHA-C1A-NA	-2.72	125.05	128.83
33	l2	201	CYC	C1B-C2B-C3B	-2.72	105.03	107.87
33	XF	201	CYC	CMC-C2C-C1C	-2.72	106.53	112.40
33	XK	201	CYC	CMC-C2C-C1C	-2.72	106.53	112.40
43	z1	101	BCR	C20-C19-C18	2.72	134.07	126.42
33	dK	201	CYC	O1A-CGA-CBA	-2.72	114.33	123.08
39	tE	101	LMG	O7-C10-C11	2.72	117.37	111.50
33	g9	201	CYC	CHA-C1A-NA	-2.72	125.05	128.83
33	hA	201	CYC	C1B-C2B-C3B	-2.72	105.03	107.87
36	cD	513	CLA	CHB-C4A-NA	2.72	128.28	124.51
36	dE	406	CLA	CHB-C4A-NA	2.72	128.28	124.51
36	BE	603	CLA	C1B-CHB-C4A	-2.72	124.73	130.12
43	bD	618	BCR	C4-C5-C6	-2.72	118.78	122.73
36	cD	504	CLA	C2D-C1D-ND	-2.72	108.10	110.10
43	Z1	101	BCR	C20-C19-C18	2.72	134.06	126.42
33	d9	201	CYC	C1B-C2B-C3B	-2.72	105.03	107.87
33	dH	201	CYC	C1B-C2B-C3B	-2.72	105.03	107.87
36	cD	510	CLA	C3C-C4C-NC	-2.72	107.52	110.57
33	w4	201	CYC	CHD-C4C-NC	2.72	128.44	125.20
33	BB	1001	CYC	CHA-C1A-NA	-2.72	125.05	128.83
33	g2	201	CYC	CHA-C1A-NA	-2.72	125.05	128.83
33	B4	1003	CYC	CHA-C1A-NA	-2.72	125.05	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	cD	503	CLA	C1B-CHB-C4A	-2.72	124.73	130.12
42	l1	101	LHG	C5-O7-C7	-2.72	111.10	117.79
33	dC	201	CYC	C1B-C2B-C3B	-2.72	105.03	107.87
36	ID	101	CLA	CHB-C4A-NA	2.72	128.27	124.51
33	hC	201	CYC	CBC-CAC-C3C	-2.72	107.42	113.47
33	h7	201	CYC	CBC-CAC-C3C	-2.72	107.42	113.47
33	PB	201	CYC	CHB-C1B-C2B	-2.72	121.56	126.95
33	d5	201	CYC	C1B-C2B-C3B	-2.72	105.04	107.87
33	gA	201	CYC	CMB-C2B-C1B	2.72	127.56	124.17
36	cE	510	CLA	C3C-C4C-NC	-2.72	107.53	110.57
33	h6	201	CYC	CBC-CAC-C3C	-2.72	107.42	113.47
36	bD	603	CLA	C2D-C1D-ND	-2.72	108.10	110.10
36	c1	510	CLA	C3C-C4C-NC	-2.72	107.53	110.57
33	HL	201	CYC	C1A-C2A-C3A	-2.71	103.78	106.78
33	bJ	201	CYC	C1B-C2B-C3B	-2.71	105.04	107.87
33	i5	201	CYC	CMB-C2B-C1B	2.71	127.56	124.17
33	QG	201	CYC	CAC-C3C-C4C	-2.71	105.70	112.67
33	IL	201	CYC	CMC-C2C-C1C	-2.71	106.55	112.40
33	d8	201	CYC	C1B-C2B-C3B	-2.71	105.04	107.87
36	CE	506	CLA	C3C-C4C-NC	-2.71	107.53	110.57
33	GL	201	CYC	C1A-C2A-C3A	-2.71	103.78	106.78
43	bE	618	BCR	C4-C5-C6	-2.71	118.79	122.73
36	cD	507	CLA	O2A-CGA-O1A	-2.71	116.75	123.59
33	e5	202	CYC	CMB-C2B-C1B	2.71	127.55	124.17
33	g9	201	CYC	CMB-C2B-C1B	2.71	127.55	124.17
33	b7	201	CYC	C1B-C2B-C3B	-2.71	105.04	107.87
33	lA	201	CYC	C1B-C2B-C3B	-2.71	105.04	107.87
33	gJ	201	CYC	CHA-C1A-NA	-2.71	125.06	128.83
33	eI	201	CYC	OC-C1C-C2C	-2.71	124.02	126.17
33	hA	201	CYC	CBC-CAC-C3C	-2.71	107.43	113.47
33	GL	201	CYC	C4A-C3A-C2A	-2.71	103.39	106.51
33	gC	201	CYC	CHA-C1A-NA	-2.71	125.07	128.83
33	eI	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
43	zE	101	BCR	C33-C5-C6	-2.71	121.48	124.53
36	C1	506	CLA	C3C-C4C-NC	-2.71	107.53	110.57
33	h3	201	CYC	C1B-C2B-C3B	-2.71	105.04	107.87
36	c1	507	CLA	O2A-CGA-O1A	-2.71	116.75	123.59
33	g3	201	CYC	CMB-C2B-C1B	2.71	127.55	124.17
33	g6	201	CYC	CHA-C1A-NA	-2.71	125.07	128.83
33	aB	201	CYC	C1A-C2A-C3A	-2.71	103.78	106.78
33	h9	201	CYC	CBC-CAC-C3C	-2.71	107.44	113.47
33	iH	201	CYC	CMB-C2B-C1B	2.71	127.55	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	c9	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
33	KK	201	CYC	C2A-C1A-NA	2.71	113.99	110.05
38	c1	501	SQD	C44-O6-C1	-2.71	108.45	113.74
43	BD	617	BCR	C4-C5-C6	-2.71	118.80	122.73
33	c6	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
33	cI	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
33	QL	201	CYC	CAC-C3C-C4C	-2.71	105.72	112.67
36	B1	603	CLA	CHB-C4A-NA	2.71	128.26	124.51
33	h3	201	CYC	CBC-CAC-C3C	-2.71	107.44	113.47
33	hJ	201	CYC	C1B-C2B-C3B	-2.71	105.05	107.87
33	lJ	201	CYC	C1B-C2B-C3B	-2.71	105.05	107.87
33	g8	201	CYC	CMB-C2B-C1B	2.71	127.55	124.17
36	BD	609	CLA	CMB-C2B-C1B	-2.71	124.30	128.46
37	aD	408	PL9	C15-C14-C16	2.71	119.82	115.27
33	cA	202	CYC	CHA-C1A-NA	-2.71	125.07	128.83
37	AE	406	PL9	C53-C6-C1	2.71	120.52	114.99
36	CD	506	CLA	C3C-C4C-NC	-2.71	107.54	110.57
36	BD	603	CLA	C1B-CHB-C4A	-2.71	124.76	130.12
36	BE	609	CLA	CMB-C2B-C1B	-2.71	124.31	128.46
33	dI	201	CYC	C1B-C2B-C3B	-2.71	105.05	107.87
33	e3	202	CYC	CMB-C2B-C1B	2.70	127.54	124.17
33	hH	201	CYC	CBC-CAC-C3C	-2.70	107.44	113.47
33	b3	201	CYC	C1B-C2B-C3B	-2.70	105.05	107.87
33	l5	201	CYC	C1B-C2B-C3B	-2.70	105.05	107.87
33	a4	201	CYC	C1A-C2A-C3A	-2.70	103.79	106.78
33	e9	202	CYC	CMB-C2B-C1B	2.70	127.54	124.17
38	CE	501	SQD	O48-C23-C24	2.70	120.39	111.91
33	e6	202	CYC	CHA-C1A-NA	-2.70	125.08	128.83
36	cE	504	CLA	C2D-C1D-ND	-2.70	108.11	110.10
37	AD	406	PL9	C53-C6-C1	2.70	120.52	114.99
33	eC	202	CYC	CMB-C2B-C1B	2.70	127.54	124.17
33	h2	201	CYC	C1B-C2B-C3B	-2.70	105.05	107.87
44	c1	518	DGD	O6D-C5D-C6D	2.70	112.12	106.67
44	cE	518	DGD	O6D-C5D-C6D	2.70	112.12	106.67
43	b1	618	BCR	C4-C5-C6	-2.70	118.81	122.73
33	i6	201	CYC	CMB-C2B-C1B	2.70	127.54	124.17
33	i8	201	CYC	CMB-C2B-C1B	2.70	127.54	124.17
36	cE	507	CLA	O2A-CGA-O1A	-2.70	116.77	123.59
38	C1	501	SQD	O48-C23-C24	2.70	120.39	111.91
33	d2	201	CYC	CBC-CAC-C3C	-2.70	107.45	113.47
36	c1	505	CLA	O2D-CGD-O1D	-2.70	118.56	123.84
33	IK	201	CYC	CMC-C2C-C1C	-2.70	106.58	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	cJ	202	CYC	CHA-C1A-NA	-2.70	125.08	128.83
38	cD	502	SQD	C44-O6-C1	-2.70	108.46	113.74
33	hI	201	CYC	CBC-CAC-C3C	-2.70	107.46	113.47
33	b8	201	CYC	C1B-C2B-C3B	-2.70	105.05	107.87
33	OL	201	CYC	C2C-C1C-NC	2.70	110.60	108.27
36	cE	505	CLA	C1B-CHB-C4A	-2.70	124.77	130.12
36	cD	506	CLA	O2D-CGD-O1D	-2.70	118.56	123.84
36	I1	101	CLA	CHB-C4A-NA	2.70	128.24	124.51
33	j5	201	CYC	C1B-C2B-C3B	-2.70	105.06	107.87
33	AG	201	CYC	CHB-C4A-NA	-2.70	119.29	124.93
36	b1	615	CLA	CHB-C4A-NA	2.70	128.24	124.51
45	DE	401	PHO	C14-C13-C12	2.70	121.06	111.29
33	g7	201	CYC	CMB-C2B-C1B	2.70	127.53	124.17
37	aD	408	PL9	C7-C8-C9	-2.70	122.30	126.79
33	b5	201	CYC	C1B-C2B-C3B	-2.70	105.06	107.87
33	j7	201	CYC	C1B-C2B-C3B	-2.70	105.06	107.87
33	AL	201	CYC	CHB-C4A-NA	-2.70	119.29	124.93
43	B1	617	BCR	C4-C5-C6	-2.70	118.81	122.73
33	h8	201	CYC	CBC-CAC-C3C	-2.70	107.46	113.47
44	cD	518	DGD	O6D-C5D-C6D	2.70	112.11	106.67
38	CD	501	SQD	O48-C23-C24	2.70	120.37	111.91
33	2G	101	CYC	C1A-C2A-C3A	-2.70	103.80	106.78
38	cE	502	SQD	C44-O6-C1	-2.70	108.47	113.74
33	JL	201	CYC	OB-C4B-NB	-2.69	118.81	125.08
36	c1	503	CLA	C2D-C1D-ND	-2.69	108.12	110.10
33	h6	201	CYC	C1B-C2B-C3B	-2.69	105.06	107.87
33	hH	201	CYC	C1B-C2B-C3B	-2.69	105.06	107.87
33	eH	202	CYC	CMB-C2B-C1B	2.69	127.53	124.17
33	h5	201	CYC	CBC-CAC-C3C	-2.69	107.47	113.47
33	JG	201	CYC	OB-C4B-NB	-2.69	118.82	125.08
43	c1	515	BCR	C23-C24-C25	2.69	134.77	127.20
36	BE	602	CLA	O2D-CGD-O1D	-2.69	118.57	123.84
33	eI	202	CYC	CMB-C2B-C1B	2.69	127.53	124.17
33	7G	201	CYC	C4A-C3A-C2A	-2.69	103.42	106.51
37	A1	406	PL9	C53-C6-C1	2.69	120.50	114.99
36	H1	102	CLA	C2D-C1D-ND	-2.69	108.12	110.10
33	dA	201	CYC	CBC-CAC-C3C	-2.69	107.47	113.47
33	BB	1003	CYC	CHA-C1A-NA	-2.69	125.09	128.83
33	cC	202	CYC	CHA-C1A-NA	-2.69	125.09	128.83
33	e2	202	CYC	CMB-C2B-C1B	2.69	127.53	124.17
33	e7	202	CYC	CMB-C2B-C1B	2.69	127.53	124.17
33	hC	201	CYC	C1B-C2B-C3B	-2.69	105.06	107.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	h2	201	CYC	CBC-CAC-C3C	-2.69	107.47	113.47
33	JG	201	CYC	CHB-C1B-NB	-2.69	120.28	126.06
33	m6	201	CYC	CMB-C2B-C1B	2.69	127.53	124.17
33	IF	201	CYC	CMC-C2C-C1C	-2.69	106.60	112.40
36	cE	506	CLA	O2D-CGD-O1D	-2.69	118.58	123.84
33	bI	201	CYC	C1B-C2B-C3B	-2.69	105.06	107.87
33	hI	201	CYC	C1B-C2B-C3B	-2.69	105.06	107.87
43	cD	515	BCR	C23-C24-C25	2.69	134.76	127.20
33	e2	202	CYC	CHA-C1A-NA	-2.69	125.09	128.83
33	CB	1002	CYC	OC-C1C-C2C	-2.69	124.03	126.17
33	f3	201	CYC	OB-C4B-NB	-2.69	118.82	125.08
33	h9	201	CYC	C1B-C2B-C3B	-2.69	105.06	107.87
33	jI	201	CYC	C1B-C2B-C3B	-2.69	105.06	107.87
33	GG	201	CYC	C4A-C3A-C2A	-2.69	103.42	106.51
33	e2	201	CYC	OC-C1C-C2C	-2.69	124.03	126.17
33	hJ	201	CYC	CBC-CAC-C3C	-2.69	107.48	113.47
33	j8	201	CYC	C1B-C2B-C3B	-2.69	105.06	107.87
33	m2	201	CYC	CMB-C2B-C1B	2.69	127.53	124.17
33	f6	201	CYC	OB-C4B-NB	-2.69	118.83	125.08
36	bD	615	CLA	CHB-C4A-NA	2.69	128.23	124.51
33	d5	201	CYC	CBC-CAC-C3C	-2.69	107.48	113.47
33	l7	201	CYC	CBC-CAC-C3C	-2.69	107.48	113.47
33	b9	201	CYC	C1B-C2B-C3B	-2.69	105.07	107.87
37	aE	408	PL9	C15-C14-C16	2.69	119.79	115.27
36	cE	511	CLA	CHB-C4A-NA	2.69	128.23	124.51
33	d7	201	CYC	CBC-CAC-C3C	-2.69	107.49	113.47
33	lC	201	CYC	CBC-CAC-C3C	-2.69	107.49	113.47
33	dJ	201	CYC	CBC-CAC-C3C	-2.69	107.49	113.47
39	A1	408	LMG	O8-C28-C29	2.69	120.33	111.91
33	bH	201	CYC	C1B-C2B-C3B	-2.69	105.07	107.87
33	eA	202	CYC	CMB-C2B-C1B	2.68	127.52	124.17
33	d2	201	CYC	C1B-C2B-C3B	-2.68	105.07	107.87
33	d3	201	CYC	C1B-C2B-C3B	-2.68	105.07	107.87
33	d3	201	CYC	CBC-CAC-C3C	-2.68	107.49	113.47
33	l3	201	CYC	CBC-CAC-C3C	-2.68	107.49	113.47
33	bC	201	CYC	C1B-C2B-C3B	-2.68	105.07	107.87
33	BB	1001	CYC	CAA-C2A-C1A	2.68	129.75	125.01
33	m8	201	CYC	CMB-C2B-C1B	2.68	127.52	124.17
33	mC	201	CYC	CMB-C2B-C1B	2.68	127.52	124.17
33	XK	201	CYC	CAA-C2A-C1A	2.68	129.75	125.01
36	b1	605	CLA	CHB-C4A-NA	2.68	128.22	124.51
36	d1	406	CLA	CHB-C4A-NA	2.68	128.22	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	j6	201	CYC	OB-C4B-NB	-2.68	118.84	125.08
42	BD	620	LHG	C5-O7-C7	-2.68	111.19	117.79
43	eE	515	BCR	C23-C24-C25	2.68	134.73	127.20
33	lA	201	CYC	CBC-CAC-C3C	-2.68	107.50	113.47
33	f9	201	CYC	OB-C4B-NB	-2.68	118.85	125.08
33	fI	201	CYC	OB-C4B-NB	-2.68	118.85	125.08
36	BD	614	CLA	CHB-C4A-NA	2.68	128.22	124.51
33	B4	1001	CYC	CAA-C2A-C1A	2.68	129.75	125.01
33	b2	201	CYC	C1B-C2B-C3B	-2.68	105.07	107.87
33	j3	201	CYC	C1B-C2B-C3B	-2.68	105.07	107.87
43	kE	102	BCR	C11-C12-C13	-2.68	118.89	126.42
33	d6	201	CYC	CBC-CAC-C3C	-2.68	107.50	113.47
33	bC	201	CYC	CBC-CAC-C3C	-2.68	107.50	113.47
33	dI	201	CYC	CBC-CAC-C3C	-2.68	107.50	113.47
36	c1	511	CLA	CHB-C4A-NA	2.68	128.22	124.51
33	h8	201	CYC	OB-C4B-NB	-2.68	118.85	125.08
33	TL	201	CYC	CHB-C1B-NB	-2.68	120.31	126.06
33	m3	201	CYC	CMB-C2B-C1B	2.68	127.51	124.17
33	m9	201	CYC	CMB-C2B-C1B	2.68	127.51	124.17
33	jA	201	CYC	C1B-C2B-C3B	-2.68	105.08	107.87
36	dD	406	CLA	CHB-C4A-NA	2.68	128.22	124.51
33	d8	201	CYC	CBC-CAC-C3C	-2.68	107.50	113.47
33	dH	201	CYC	CBC-CAC-C3C	-2.68	107.50	113.47
36	BE	614	CLA	CHB-C4A-NA	2.68	128.22	124.51
33	j6	201	CYC	C1B-C2B-C3B	-2.68	105.08	107.87
33	j9	201	CYC	C1B-C2B-C3B	-2.68	105.08	107.87
33	l8	201	CYC	CBC-CAC-C3C	-2.68	107.50	113.47
33	h3	201	CYC	OB-C4B-NB	-2.68	118.85	125.08
33	JL	201	CYC	CHB-C1B-NB	-2.68	120.31	126.06
33	eA	201	CYC	OC-C1C-C2C	-2.68	124.04	126.17
36	C1	509	CLA	C2A-C1A-CHA	2.68	128.54	123.86
33	jH	201	CYC	C1B-C2B-C3B	-2.68	105.08	107.87
36	BE	603	CLA	CHB-C4A-NA	2.68	128.21	124.51
33	wB	201	CYC	CHD-C4C-NC	2.68	128.39	125.20
33	b2	201	CYC	CBC-CAC-C3C	-2.68	107.51	113.47
42	B1	621	LHG	C5-O7-C7	-2.68	111.20	117.79
33	j8	201	CYC	OB-C4B-NB	-2.68	118.86	125.08
33	lH	201	CYC	CBC-CAC-C3C	-2.68	107.51	113.47
33	iA	201	CYC	CMB-C2B-C1B	2.68	127.51	124.17
33	f2	201	CYC	OB-C4B-NB	-2.68	118.86	125.08
36	BD	602	CLA	O2D-CGD-O1D	-2.68	118.61	123.84
33	b5	201	CYC	CBC-CAC-C3C	-2.68	107.51	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	lJ	201	CYC	CBC-CAC-C3C	-2.68	107.51	113.47
36	B1	602	CLA	O2D-CGD-O1D	-2.68	118.61	123.84
36	b1	604	CLA	O2D-CGD-O1D	-2.68	118.61	123.84
33	mJ	201	CYC	CMB-C2B-C1B	2.68	127.51	124.17
33	b6	201	CYC	OB-C4B-NB	-2.68	118.86	125.08
33	fJ	201	CYC	OB-C4B-NB	-2.67	118.86	125.08
33	hI	201	CYC	OB-C4B-NB	-2.67	118.86	125.08
36	b1	604	CLA	C2A-C1A-CHA	2.67	128.53	123.86
36	cD	510	CLA	CAA-C2A-C1A	2.67	120.74	111.97
36	cE	510	CLA	CAA-C2A-C1A	2.67	120.74	111.97
42	BE	620	LHG	C5-O7-C7	-2.67	111.21	117.79
33	OG	201	CYC	C2C-C1C-NC	2.67	110.58	108.27
36	b1	603	CLA	C2D-C1D-ND	-2.67	108.13	110.10
33	f5	201	CYC	OB-C4B-NB	-2.67	118.86	125.08
36	CD	509	CLA	C2A-C1A-CHA	2.67	128.53	123.86
33	l5	201	CYC	CBC-CAC-C3C	-2.67	107.52	113.47
33	II	201	CYC	CBC-CAC-C3C	-2.67	107.52	113.47
36	cD	511	CLA	CHB-C4A-NA	2.67	128.21	124.51
33	j3	201	CYC	OB-C4B-NB	-2.67	118.87	125.08
33	iC	201	CYC	CMB-C2B-C1B	2.67	127.50	124.17
33	eJ	202	CYC	CMB-C2B-C1B	2.67	127.50	124.17
33	1L	201	CYC	CMA-C3A-C2A	-2.67	118.86	126.12
33	2L	101	CYC	C1A-C2A-C3A	-2.67	103.83	106.78
33	hC	201	CYC	OB-C4B-NB	-2.67	118.87	125.08
33	XF	201	CYC	CAA-C2A-C1A	2.67	129.73	125.01
33	h2	201	CYC	OB-C4B-NB	-2.67	118.87	125.08
36	a1	407	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
36	c1	510	CLA	CAA-C2A-C1A	2.67	120.73	111.97
33	l6	201	CYC	CBC-CAC-C3C	-2.67	107.52	113.47
33	j8	201	CYC	CBC-CAC-C3C	-2.67	107.52	113.47
36	aD	406	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
36	bD	604	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
33	fH	201	CYC	OB-C4B-NB	-2.67	118.87	125.08
36	B1	611	CLA	C1B-CHB-C4A	-2.67	124.83	130.12
33	b8	201	CYC	CBC-CAC-C3C	-2.67	107.52	113.47
33	l9	201	CYC	CBC-CAC-C3C	-2.67	107.52	113.47
33	h6	201	CYC	OB-C4B-NB	-2.67	118.87	125.08
33	yB	201	CYC	CBD-CAD-C3D	-2.67	108.06	112.62
33	e6	202	CYC	CMB-C2B-C1B	2.67	127.50	124.17
33	h5	201	CYC	OB-C4B-NB	-2.67	118.88	125.08
43	k1	102	BCR	C11-C12-C13	-2.67	118.92	126.42
36	cD	505	CLA	C1B-CHB-C4A	-2.67	124.83	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	l2	201	CYC	CBC-CAC-C3C	-2.67	107.53	113.47
36	bE	611	CLA	CMB-C2B-C3B	2.67	129.67	124.68
33	j3	201	CYC	CBC-CAC-C3C	-2.67	107.53	113.47
33	f7	201	CYC	CBC-CAC-C3C	-2.67	107.53	113.47
33	b9	201	CYC	CBC-CAC-C3C	-2.67	107.53	113.47
33	d9	201	CYC	CBC-CAC-C3C	-2.67	107.53	113.47
39	AD	408	LMG	O8-C28-C29	2.67	120.28	111.91
36	BE	604	CLA	O2A-CGA-O1A	-2.67	116.86	123.59
33	i9	201	CYC	CMB-C2B-C1B	2.67	127.50	124.17
33	f7	201	CYC	OB-C4B-NB	-2.67	118.88	125.08
36	c1	502	CLA	CAA-C2A-C3A	-2.67	105.48	112.78
36	aE	406	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
36	B1	604	CLA	O2A-CGA-O1A	-2.67	116.86	123.59
33	dC	201	CYC	CBC-CAC-C3C	-2.67	107.53	113.47
33	bH	201	CYC	CBC-CAC-C3C	-2.67	107.53	113.47
39	AE	408	LMG	O8-C28-C29	2.67	120.27	111.91
43	ZE	102	BCR	C11-C12-C13	-2.67	118.93	126.42
33	2G	101	CYC	CMD-C2D-C3D	-2.67	119.92	124.94
33	hA	201	CYC	OB-C4B-NB	-2.67	118.88	125.08
33	hH	201	CYC	OB-C4B-NB	-2.67	118.88	125.08
36	bD	611	CLA	CMB-C2B-C3B	2.67	129.66	124.68
36	cD	503	CLA	CAA-C2A-C3A	-2.67	105.48	112.78
33	qB	201	CYC	C4D-CHA-C1A	2.67	131.99	128.81
42	eE	101	LHG	O8-C23-C24	2.67	120.27	111.91
33	j9	201	CYC	OB-C4B-NB	-2.67	118.88	125.08
33	JL	201	CYC	C1A-C2A-C3A	-2.67	103.83	106.78
43	kD	102	BCR	C11-C12-C13	-2.67	118.93	126.42
36	BD	604	CLA	O2A-CGA-O1A	-2.67	116.87	123.59
36	AE	405	CLA	C2A-C1A-CHA	2.67	128.52	123.86
33	mH	201	CYC	CMB-C2B-C1B	2.66	127.49	124.17
44	CE	517	DGD	O1G-C1A-C2A	2.66	120.27	111.91
33	fA	201	CYC	OB-C4B-NB	-2.66	118.89	125.08
36	bD	605	CLA	CHB-C4A-NA	2.66	128.20	124.51
33	7L	201	CYC	C4A-C3A-C2A	-2.66	103.45	106.51
43	Z1	102	BCR	C11-C12-C13	-2.66	118.93	126.42
42	e1	101	LHG	O8-C23-C24	2.66	120.27	111.91
33	y4	201	CYC	CBD-CAD-C3D	-2.66	108.07	112.62
33	b7	201	CYC	CBC-CAC-C3C	-2.66	107.54	113.47
37	dD	408	PL9	C15-C14-C16	2.66	119.75	115.27
37	dE	408	PL9	C15-C14-C16	2.66	119.75	115.27
33	jH	201	CYC	OB-C4B-NB	-2.66	118.89	125.08
33	jJ	201	CYC	CBC-CAC-C3C	-2.66	107.54	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	AD	405	CLA	C2A-C1A-CHA	2.66	128.52	123.86
42	eD	101	LHG	O8-C23-C24	2.66	120.26	111.91
33	jC	201	CYC	CBC-CAC-C3C	-2.66	107.54	113.47
33	bC	201	CYC	OB-C4B-NB	-2.66	118.89	125.08
33	fC	201	CYC	OB-C4B-NB	-2.66	118.89	125.08
33	b6	201	CYC	CBC-CAC-C3C	-2.66	107.54	113.47
36	CE	509	CLA	C2A-C1A-CHA	2.66	128.51	123.86
36	BD	611	CLA	C1B-CHB-C4A	-2.66	124.85	130.12
36	bD	614	CLA	O2D-CGD-O1D	-2.66	118.64	123.84
33	j6	201	CYC	CBC-CAC-C3C	-2.66	107.54	113.47
33	fA	201	CYC	CBC-CAC-C3C	-2.66	107.54	113.47
36	cE	503	CLA	CAA-C2A-C3A	-2.66	105.49	112.78
36	bE	615	CLA	CHB-C4A-NA	2.66	128.19	124.51
33	NL	201	CYC	C2A-C1A-NA	2.66	113.92	110.05
33	q4	201	CYC	C4D-CHA-C1A	2.66	131.99	128.81
33	bA	201	CYC	CBC-CAC-C3C	-2.66	107.54	113.47
33	k9	201	CYC	OC-C1C-C2C	-2.66	124.06	126.17
33	jH	201	CYC	CBC-CAC-C3C	-2.66	107.55	113.47
36	BD	603	CLA	CHB-C4A-NA	2.66	128.19	124.51
33	m7	201	CYC	CMB-C2B-C1B	2.66	127.49	124.17
33	TL	201	CYC	CMC-C2C-C1C	-2.66	106.67	112.40
33	j2	201	CYC	CBC-CAC-C3C	-2.66	107.55	113.47
33	2L	101	CYC	CMD-C2D-C3D	-2.66	119.93	124.94
33	j7	201	CYC	OB-C4B-NB	-2.66	118.90	125.08
33	j2	201	CYC	OB-C4B-NB	-2.66	118.90	125.08
33	j2	201	CYC	C1B-C2B-C3B	-2.66	105.10	107.87
33	bJ	201	CYC	CBC-CAC-C3C	-2.66	107.55	113.47
33	l2	201	CYC	OB-C4B-NB	-2.66	118.90	125.08
33	h9	201	CYC	OB-C4B-NB	-2.66	118.90	125.08
33	jA	201	CYC	OB-C4B-NB	-2.66	118.90	125.08
33	b3	201	CYC	CBC-CAC-C3C	-2.66	107.55	113.47
33	jC	201	CYC	OB-C4B-NB	-2.66	118.90	125.08
33	kI	201	CYC	OC-C1C-C2C	-2.66	124.06	126.17
36	HE	102	CLA	CAA-C2A-C3A	-2.66	105.50	112.78
33	1G	201	CYC	CMA-C3A-C2A	-2.66	118.91	126.12
36	BD	610	CLA	CMB-C2B-C3B	2.66	129.65	124.68
33	jI	201	CYC	OB-C4B-NB	-2.66	118.90	125.08
36	h1	101	CLA	O2D-CGD-O1D	-2.66	118.64	123.84
33	fI	201	CYC	CBC-CAC-C3C	-2.66	107.55	113.47
39	y1	101	LMG	O8-C28-C29	2.66	120.24	111.91
33	lA	201	CYC	OB-C4B-NB	-2.66	118.91	125.08
33	NG	201	CYC	C2A-C1A-NA	2.65	113.91	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	b1	610	CLA	CMB-C2B-C1B	-2.65	124.38	128.46
33	b6	201	CYC	C1B-C2B-C3B	-2.65	105.10	107.87
36	cE	503	CLA	O2D-CGD-O1D	-2.65	118.65	123.84
33	fH	201	CYC	CBC-CAC-C3C	-2.65	107.56	113.47
33	fJ	201	CYC	CBC-CAC-C3C	-2.65	107.56	113.47
36	A1	405	CLA	C2A-C1A-CHA	2.65	128.50	123.86
33	f8	201	CYC	CBC-CAC-C3C	-2.65	107.56	113.47
33	bI	201	CYC	OB-C4B-NB	-2.65	118.91	125.08
33	cK	201	CYC	CHB-C4A-C3A	2.65	131.72	124.90
33	a4	201	CYC	OC-C1C-NC	2.65	128.16	124.94
33	f5	201	CYC	CBC-CAC-C3C	-2.65	107.56	113.47
33	f9	201	CYC	CBC-CAC-C3C	-2.65	107.56	113.47
33	b8	201	CYC	OB-C4B-NB	-2.65	118.91	125.08
33	TG	201	CYC	CHB-C1B-NB	-2.65	120.36	126.06
36	b1	611	CLA	CMB-C2B-C3B	2.65	129.64	124.68
33	bA	201	CYC	OB-C4B-NB	-2.65	118.91	125.08
33	f2	201	CYC	CBC-CAC-C3C	-2.65	107.56	113.47
33	jJ	201	CYC	OB-C4B-NB	-2.65	118.92	125.08
33	jJ	201	CYC	C1B-C2B-C3B	-2.65	105.10	107.87
36	bE	604	CLA	O2D-CGD-O1D	-2.65	118.65	123.84
33	k7	201	CYC	OC-C1C-C2C	-2.65	124.06	126.17
36	b1	606	CLA	O2A-CGA-O1A	-2.65	116.90	123.59
33	b3	201	CYC	OB-C4B-NB	-2.65	118.92	125.08
33	f8	201	CYC	OB-C4B-NB	-2.65	118.92	125.08
33	BB	1001	CYC	CMA-C3A-C2A	-2.65	118.92	126.12
36	bE	604	CLA	C2A-C1A-CHA	2.65	128.49	123.86
33	b2	201	CYC	OB-C4B-NB	-2.65	118.92	125.08
36	BE	613	CLA	O2D-CGD-O1D	-2.65	118.66	123.84
36	B1	614	CLA	CHB-C4A-NA	2.65	128.18	124.51
36	BE	611	CLA	C1B-CHB-C4A	-2.65	124.87	130.12
43	CD	521	BCR	C11-C12-C13	-2.65	118.97	126.42
36	hD	102	CLA	CAA-C2A-C3A	-2.65	105.52	112.78
39	yD	101	LMG	O8-C28-C29	2.65	120.22	111.91
33	k8	201	CYC	OC-C1C-C2C	-2.65	124.07	126.17
33	kA	201	CYC	OC-C1C-C2C	-2.65	124.07	126.17
33	jI	201	CYC	CBC-CAC-C3C	-2.65	107.57	113.47
33	bH	201	CYC	OB-C4B-NB	-2.65	118.92	125.08
33	j9	201	CYC	CBC-CAC-C3C	-2.65	107.57	113.47
33	lJ	201	CYC	OB-C4B-NB	-2.65	118.92	125.08
33	2L	101	CYC	CHB-C4A-C3A	2.65	131.71	124.90
33	bI	201	CYC	CBC-CAC-C3C	-2.65	107.57	113.47
33	bJ	201	CYC	OB-C4B-NB	-2.65	118.92	125.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	hE	102	CLA	CAA-C2A-C3A	-2.65	105.53	112.78
36	BE	610	CLA	CMB-C2B-C3B	2.65	129.63	124.68
33	jA	201	CYC	CBC-CAC-C3C	-2.65	107.57	113.47
33	hJ	201	CYC	OB-C4B-NB	-2.65	118.92	125.08
33	BB	1001	CYC	C2B-C1B-NB	2.65	110.86	106.99
33	jC	201	CYC	C1B-C2B-C3B	-2.65	105.11	107.87
36	c1	504	CLA	C1B-CHB-C4A	-2.65	124.87	130.12
45	aE	412	PHO	C4-C3-C5	2.65	119.72	115.27
36	bD	604	CLA	C2A-C1A-CHA	2.65	128.49	123.86
36	b1	614	CLA	O2D-CGD-O1D	-2.65	118.66	123.84
44	CD	517	DGD	O1G-C1A-C2A	2.65	120.21	111.91
33	f3	201	CYC	CBC-CAC-C3C	-2.65	107.57	113.47
36	bD	606	CLA	O2A-CGA-O1A	-2.65	116.91	123.59
36	H1	102	CLA	CAA-C2A-C3A	-2.65	105.53	112.78
33	RB	201	CYC	CMC-C2C-C1C	-2.65	106.70	112.40
36	HD	102	CLA	CAA-C2A-C3A	-2.65	105.53	112.78
43	BD	617	BCR	C1-C6-C5	-2.65	118.89	122.61
33	b9	201	CYC	OB-C4B-NB	-2.65	118.93	125.08
36	CE	511	CLA	CAA-C2A-C1A	2.65	120.65	111.97
36	d1	403	CLA	C1B-CHB-C4A	-2.65	124.88	130.12
36	C1	511	CLA	O2D-CGD-O1D	-2.65	118.67	123.84
33	h5	201	CYC	C1B-C2B-C3B	-2.65	105.11	107.87
33	TG	201	CYC	CMC-C2C-C1C	-2.65	106.70	112.40
39	yE	101	LMG	O8-C28-C29	2.65	120.21	111.91
33	cF	201	CYC	CHB-C4A-C3A	2.65	131.70	124.90
38	dD	414	SQD	C45-O47-C7	-2.64	111.28	117.79
43	BE	617	BCR	C1-C6-C5	-2.64	118.89	122.61
33	lH	201	CYC	OB-C4B-NB	-2.64	118.93	125.08
36	h1	102	CLA	CAA-C2A-C3A	-2.64	105.54	112.78
33	B4	1001	CYC	CMA-C3A-C2A	-2.64	118.94	126.12
33	j5	201	CYC	CBC-CAC-C3C	-2.64	107.58	113.47
33	f6	201	CYC	CBC-CAC-C3C	-2.64	107.58	113.47
33	j7	201	CYC	CBC-CAC-C3C	-2.64	107.58	113.47
33	gK	201	CYC	C1A-C2A-C3A	-2.64	103.86	106.78
36	C1	511	CLA	CAA-C2A-C1A	2.64	120.64	111.97
37	D1	407	PL9	C53-C6-C1	2.64	120.39	114.99
44	C1	517	DGD	O1G-C1A-C2A	2.64	120.20	111.91
37	A1	406	PL9	C7-C8-C9	-2.64	122.39	126.79
33	h7	201	CYC	OB-C4B-NB	-2.64	118.94	125.08
38	BE	621	SQD	C1-O5-C5	2.64	118.88	113.69
33	l7	201	CYC	OB-C4B-NB	-2.64	118.94	125.08
33	lI	201	CYC	OB-C4B-NB	-2.64	118.94	125.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BD	613	CLA	O2D-CGD-O1D	-2.64	118.67	123.84
36	bE	606	CLA	O2A-CGA-O1A	-2.64	116.92	123.59
38	d1	414	SQD	C45-O47-C7	-2.64	111.29	117.79
33	bA	201	CYC	C1B-C2B-C3B	-2.64	105.11	107.87
36	bE	614	CLA	O2D-CGD-O1D	-2.64	118.67	123.84
33	j5	201	CYC	OB-C4B-NB	-2.64	118.94	125.08
33	l3	201	CYC	OB-C4B-NB	-2.64	118.94	125.08
33	l6	201	CYC	OB-C4B-NB	-2.64	118.94	125.08
43	B1	617	BCR	C1-C6-C5	-2.64	118.90	122.61
43	bE	618	BCR	C30-C25-C26	-2.64	118.90	122.61
36	CE	511	CLA	O2D-CGD-O1D	-2.64	118.68	123.84
33	JG	201	CYC	C1A-C2A-C3A	-2.64	103.86	106.78
36	dE	403	CLA	C1B-CHB-C4A	-2.64	124.89	130.12
33	l5	201	CYC	OB-C4B-NB	-2.64	118.95	125.08
33	lC	201	CYC	OB-C4B-NB	-2.64	118.95	125.08
33	2G	101	CYC	CHB-C4A-C3A	2.64	131.68	124.90
33	mA	201	CYC	CMB-C2B-C1B	2.64	127.46	124.17
36	bE	605	CLA	CHB-C4A-NA	2.64	128.16	124.51
36	cD	508	CLA	C2A-C1A-CHA	2.64	128.47	123.86
33	OB	201	CYC	C2A-C1A-NA	2.64	113.88	110.05
37	DD	408	PL9	C53-C6-C1	2.64	120.38	114.99
33	b5	201	CYC	OB-C4B-NB	-2.64	118.95	125.08
36	CD	511	CLA	CAA-C2A-C1A	2.64	120.61	111.97
36	B1	613	CLA	O2D-CGD-O1D	-2.64	118.69	123.84
36	C1	514	CLA	CMB-C2B-C3B	2.63	129.61	124.68
33	l9	201	CYC	OB-C4B-NB	-2.63	118.95	125.08
33	m5	201	CYC	CMB-C2B-C1B	2.63	127.46	124.17
38	BD	621	SQD	C1-O5-C5	2.63	118.86	113.69
33	l8	201	CYC	OB-C4B-NB	-2.63	118.95	125.08
36	CD	511	CLA	O2D-CGD-O1D	-2.63	118.69	123.84
33	mI	201	CYC	CMB-C2B-C1B	2.63	127.45	124.17
33	BA	301	CYC	OC-C1C-C2C	-2.63	124.08	126.17
33	R4	201	CYC	CMC-C2C-C1C	-2.63	106.73	112.40
43	ZE	101	BCR	C8-C7-C6	-2.63	119.81	127.20
33	O4	201	CYC	C2A-C1A-NA	2.63	113.88	110.05
33	fC	201	CYC	CBC-CAC-C3C	-2.63	107.61	113.47
36	hD	101	CLA	O2D-CGD-O1D	-2.63	118.69	123.84
45	D1	402	PHO	CMA-C3A-C4A	-2.63	108.61	114.38
43	ZD	101	BCR	C8-C7-C6	-2.63	119.81	127.20
33	aB	201	CYC	OC-C1C-NC	2.63	128.13	124.94
33	s4	201	CYC	C4D-CHA-C1A	2.63	131.95	128.81
36	cD	503	CLA	O2D-CGD-O1D	-2.63	118.69	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	bD	618	BCR	C1-C6-C5	-2.63	118.91	122.61
36	B1	610	CLA	CMB-C2B-C3B	2.63	129.60	124.68
37	D1	407	PL9	C15-C14-C16	2.63	119.70	115.27
33	b7	201	CYC	OB-C4B-NB	-2.63	118.97	125.08
38	B1	622	SQD	C1-O5-C5	2.63	118.85	113.69
33	B9	301	CYC	OC-C1C-C2C	-2.63	124.08	126.17
44	cE	518	DGD	O1G-C1A-C2A	2.63	120.16	111.91
36	dD	403	CLA	C1B-CHB-C4A	-2.63	124.91	130.12
33	rB	201	CYC	C4D-CHA-C1A	2.63	131.95	128.81
38	DE	414	SQD	C45-O47-C7	-2.63	111.32	117.79
37	AE	406	PL9	C7-C8-C9	-2.63	122.42	126.79
33	k3	201	CYC	OC-C1C-C2C	-2.63	124.08	126.17
43	b1	618	BCR	C30-C25-C26	-2.63	118.91	122.61
38	dE	414	SQD	C45-O47-C7	-2.63	111.32	117.79
45	DE	403	PHO	CMA-C3A-C4A	-2.63	108.62	114.38
36	hE	101	CLA	O2D-CGD-O1D	-2.63	118.70	123.84
45	DE	401	PHO	C4-C3-C5	2.63	119.69	115.27
36	bD	610	CLA	CMB-C2B-C1B	-2.63	124.43	128.46
36	bE	610	CLA	CMB-C2B-C1B	-2.63	124.43	128.46
43	b1	618	BCR	C1-C6-C5	-2.63	118.91	122.61
33	gF	201	CYC	C1A-C2A-C3A	-2.63	103.88	106.78
45	a1	413	PHO	C4-C3-C5	2.63	119.69	115.27
36	bD	612	CLA	C1B-CHB-C4A	-2.63	124.92	130.12
43	ID	102	BCR	C24-C25-C26	2.62	127.82	121.46
37	dD	408	PL9	C53-C6-C1	2.62	120.36	114.99
33	SB	201	CYC	C1A-C2A-C3A	-2.62	103.88	106.78
36	BE	602	CLA	C2A-C1A-CHA	2.62	128.45	123.86
33	dF	201	CYC	C1B-C2B-C3B	-2.62	105.13	107.87
36	CD	514	CLA	CMB-C2B-C3B	2.62	129.59	124.68
33	k5	201	CYC	OC-C1C-C2C	-2.62	124.09	126.17
43	Z1	101	BCR	C8-C7-C6	-2.62	119.83	127.20
37	d1	408	PL9	C53-C6-C1	2.62	120.35	114.99
36	B1	608	CLA	C1B-CHB-C4A	-2.62	124.92	130.12
36	CE	514	CLA	CMB-C2B-C3B	2.62	129.59	124.68
36	B1	602	CLA	C2A-C1A-CHA	2.62	128.44	123.86
33	B4	1001	CYC	C2B-C1B-NB	2.62	110.83	106.99
33	XB	201	CYC	CHB-C4A-C3A	2.62	131.64	124.90
42	dE	410	LHG	O8-C23-C24	2.62	120.14	111.91
44	cD	518	DGD	O1G-C1A-C2A	2.62	120.14	111.91
36	HE	102	CLA	C2D-C1D-ND	-2.62	108.17	110.10
36	cE	508	CLA	C2A-C1A-CHA	2.62	128.44	123.86
36	CE	512	CLA	C1B-CHB-C4A	-2.62	124.92	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	X4	201	CYC	CHB-C4A-C3A	2.62	131.64	124.90
33	S4	201	CYC	C2A-C1A-NA	2.62	113.86	110.05
38	DD	414	SQD	C45-O47-C7	-2.62	111.34	117.79
42	dD	410	LHG	O8-C23-C24	2.62	120.13	111.91
33	kH	201	CYC	OC-C1C-C2C	-2.62	124.09	126.17
37	dE	408	PL9	C53-C6-C1	2.62	120.35	114.99
43	zD	101	BCR	C8-C7-C6	-2.62	119.84	127.20
36	bE	612	CLA	C1B-CHB-C4A	-2.62	124.93	130.12
36	BD	602	CLA	C2A-C1A-CHA	2.62	128.44	123.86
37	AD	406	PL9	C7-C8-C9	-2.62	122.43	126.79
36	cD	510	CLA	CAA-CBA-CGA	-2.62	105.60	113.25
45	a1	413	PHO	O2A-CGA-O1A	-2.62	116.98	123.59
33	cC	202	CYC	CMB-C2B-C1B	2.62	127.44	124.17
33	c3	201	CYC	OC-C1C-C2C	-2.62	124.09	126.17
33	gJ	202	CYC	OC-C1C-C2C	-2.62	124.09	126.17
36	aD	405	CLA	C2A-C1A-CHA	2.62	128.44	123.86
43	bE	618	BCR	C1-C6-C5	-2.62	118.93	122.61
42	d1	410	LHG	O8-C23-C24	2.62	120.12	111.91
36	b1	612	CLA	C1B-CHB-C4A	-2.62	124.93	130.12
33	R4	201	CYC	OC-C1C-C2C	-2.62	124.09	126.17
36	BD	608	CLA	C1B-CHB-C4A	-2.62	124.93	130.12
44	c1	518	DGD	O1G-C1A-C2A	2.62	120.12	111.91
37	DE	408	PL9	C53-C6-C1	2.62	120.34	114.99
33	TB	201	CYC	OC-C1C-NC	2.62	128.11	124.94
36	HE	101	CLA	O2D-CGD-O1D	-2.62	118.72	123.84
33	SB	201	CYC	C2A-C1A-NA	2.62	113.86	110.05
33	d2	201	CYC	OB-C4B-NB	-2.62	119.00	125.08
36	cE	510	CLA	CAA-CBA-CGA	-2.62	105.61	113.25
38	D1	413	SQD	C45-O47-C7	-2.62	111.35	117.79
45	aE	412	PHO	O2A-CGA-O1A	-2.62	116.99	123.59
36	C1	512	CLA	C1B-CHB-C4A	-2.61	124.94	130.12
33	c5	201	CYC	OC-C1C-C2C	-2.61	124.09	126.17
33	m2	201	CYC	CHA-C1A-NA	-2.61	125.20	128.83
33	m9	201	CYC	CHA-C1A-NA	-2.61	125.20	128.83
36	hE	102	CLA	C2D-C1D-ND	-2.61	108.18	110.10
36	H1	101	CLA	O2D-CGD-O1D	-2.61	118.73	123.84
33	3F	101	CYC	C1A-C2A-C3A	-2.61	103.89	106.78
37	d1	408	PL9	C15-C14-C16	2.61	119.67	115.27
36	c1	502	CLA	O2D-CGD-O1D	-2.61	118.73	123.84
33	dK	201	CYC	C1B-C2B-C3B	-2.61	105.14	107.87
33	c9	201	CYC	OC-C1C-C2C	-2.61	124.10	126.17
33	gH	202	CYC	OC-C1C-C2C	-2.61	124.10	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	OG	201	CYC	CHB-C1B-NB	-2.61	120.45	126.06
33	OL	201	CYC	CHB-C1B-NB	-2.61	120.45	126.06
36	hD	102	CLA	C2D-C1D-ND	-2.61	108.18	110.10
36	HD	101	CLA	O2D-CGD-O1D	-2.61	118.73	123.84
36	cE	514	CLA	O2D-CGD-O1D	-2.61	118.73	123.84
33	B3	301	CYC	OC-C1C-C2C	-2.61	124.10	126.17
33	T4	201	CYC	OC-C1C-NC	2.61	128.10	124.94
36	HD	102	CLA	C2D-C1D-ND	-2.61	108.18	110.10
33	IF	201	CYC	CAD-CBD-CGD	-2.61	106.44	113.76
36	c1	510	CLA	CAA-CBA-CGA	-2.61	105.63	113.25
45	DD	403	PHO	C9-C8-C10	-2.61	101.84	111.29
33	g5	202	CYC	OC-C1C-C2C	-2.61	124.10	126.17
33	g8	202	CYC	OC-C1C-C2C	-2.61	124.10	126.17
37	DD	408	PL9	C15-C14-C16	2.61	119.66	115.27
33	m5	201	CYC	CHA-C1A-NA	-2.61	125.21	128.83
33	mC	201	CYC	CHA-C1A-NA	-2.61	125.21	128.83
33	r4	201	CYC	C4D-CHA-C1A	2.61	131.93	128.81
33	sB	201	CYC	C4D-CHA-C1A	2.61	131.93	128.81
33	1G	201	CYC	C4A-C3A-C2A	-2.61	103.51	106.51
36	c1	508	CLA	C2A-C1A-CHA	2.61	128.42	123.86
36	cD	514	CLA	O2D-CGD-O1D	-2.61	118.74	123.84
33	IK	201	CYC	CAD-CBD-CGD	-2.61	106.45	113.76
36	c1	514	CLA	O2D-CGD-O1D	-2.61	118.74	123.84
33	d7	201	CYC	OB-C4B-NB	-2.61	119.02	125.08
33	B6	301	CYC	OC-C1C-C2C	-2.61	124.10	126.17
36	C1	507	CLA	CHB-C4A-NA	2.61	128.12	124.51
33	mI	201	CYC	CHA-C1A-NA	-2.61	125.21	128.83
36	bE	607	CLA	CHD-C1D-ND	-2.61	122.06	124.45
33	k2	201	CYC	OC-C1C-C2C	-2.61	124.10	126.17
33	LG	201	CYC	O2D-CGD-CBD	2.61	122.40	114.03
36	BE	608	CLA	C1B-CHB-C4A	-2.60	124.96	130.12
33	B7	301	CYC	OC-C1C-C2C	-2.60	124.10	126.17
33	dA	201	CYC	OB-C4B-NB	-2.60	119.03	125.08
36	aE	405	CLA	C2A-C1A-CHA	2.60	128.41	123.86
33	d5	201	CYC	OB-C4B-NB	-2.60	119.03	125.08
33	LL	201	CYC	O2D-CGD-CBD	2.60	122.39	114.03
33	BC	301	CYC	OC-C1C-C2C	-2.60	124.10	126.17
33	KF	201	CYC	OC-C1C-C2C	-2.60	124.10	126.17
33	d6	201	CYC	OB-C4B-NB	-2.60	119.03	125.08
33	dH	201	CYC	OB-C4B-NB	-2.60	119.03	125.08
33	7G	201	CYC	O2A-CGA-CBA	2.60	122.39	114.03
36	CE	507	CLA	CHB-C4A-NA	2.60	128.11	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	CE	504	CLA	CAA-C2A-C3A	-2.60	105.65	112.78
33	B2	301	CYC	OC-C1C-C2C	-2.60	124.11	126.17
36	CD	504	CLA	CAA-C2A-C3A	-2.60	105.66	112.78
36	a1	406	CLA	C2A-C1A-CHA	2.60	128.41	123.86
33	d9	201	CYC	OB-C4B-NB	-2.60	119.03	125.08
33	7L	201	CYC	O2A-CGA-CBA	2.60	122.38	114.03
36	CD	512	CLA	C1B-CHB-C4A	-2.60	124.97	130.12
33	kJ	201	CYC	OC-C1C-C2C	-2.60	124.11	126.17
33	S4	201	CYC	C1A-C2A-C3A	-2.60	103.91	106.78
36	CD	504	CLA	CMC-C2C-C1C	-2.60	121.08	125.04
43	BD	617	BCR	C30-C25-C26	-2.60	118.95	122.61
33	kC	201	CYC	OC-C1C-C2C	-2.60	124.11	126.17
36	xE	101	CLA	CHB-C4A-NA	2.60	128.10	124.51
33	dC	201	CYC	OB-C4B-NB	-2.60	119.04	125.08
37	aD	408	PL9	C30-C29-C31	2.60	119.64	115.27
33	RB	201	CYC	OC-C1C-C2C	-2.60	124.11	126.17
33	cF	201	CYC	OC-C1C-C2C	-2.60	124.11	126.17
33	B3	301	CYC	CHB-C1B-NB	-2.60	120.48	126.06
43	z1	101	BCR	C8-C7-C6	-2.60	119.91	127.20
36	BE	605	CLA	CHD-C1D-ND	-2.60	122.07	124.45
44	HE	103	DGD	C2G-O2G-C1B	-2.60	111.40	117.79
33	B4	1004	CYC	C4A-C3A-C2A	-2.60	103.53	106.51
36	h1	102	CLA	C2D-C1D-ND	-2.60	108.19	110.10
43	IE	102	BCR	C24-C25-C26	2.60	127.75	121.46
36	C1	504	CLA	CMC-C2C-C1C	-2.60	121.09	125.04
37	aE	408	PL9	C30-C29-C31	2.60	119.64	115.27
33	9F	201	CYC	C4A-C3A-C2A	-2.60	103.53	106.51
33	mJ	201	CYC	CHA-C1A-NA	-2.59	125.23	128.83
33	2G	101	CYC	CHB-C1B-NB	-2.59	120.49	126.06
33	c7	202	CYC	CMB-C2B-C1B	2.59	127.41	124.17
33	i3	202	CYC	CHB-C1B-NB	-2.59	120.49	126.06
33	3K	102	CYC	CHB-C1B-NB	-2.59	120.49	126.06
33	m8	201	CYC	CHA-C1A-NA	-2.59	125.23	128.83
37	a1	409	PL9	C30-C29-C31	2.59	119.64	115.27
33	YF	201	CYC	C1B-C2B-C3B	-2.59	105.16	107.87
39	a1	408	LMG	C8-O7-C10	-2.59	111.41	117.79
43	I1	102	BCR	C24-C25-C26	2.59	127.75	121.46
36	C1	504	CLA	CAA-C2A-C3A	-2.59	105.68	112.78
33	gK	201	CYC	CAA-C2A-C1A	2.59	129.60	125.01
33	dI	201	CYC	OB-C4B-NB	-2.59	119.05	125.08
37	DE	408	PL9	C15-C14-C16	2.59	119.63	115.27
33	CB	1001	CYC	C1B-CHB-C4A	2.59	134.42	128.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	c8	202	CYC	CMB-C2B-C1B	2.59	127.40	124.17
43	zE	101	BCR	C8-C7-C6	-2.59	119.92	127.20
36	CE	504	CLA	CMC-C2C-C1C	-2.59	121.09	125.04
33	2L	101	CYC	CHB-C1B-NB	-2.59	120.49	126.06
33	BI	301	CYC	OC-C1C-C2C	-2.59	124.11	126.17
43	CE	516	BCR	C15-C14-C13	-2.59	123.61	127.31
36	cE	509	CLA	OBD-CAD-C3D	2.59	134.76	128.52
33	d3	201	CYC	OB-C4B-NB	-2.59	119.06	125.08
33	C4	1001	CYC	C1B-CHB-C4A	2.59	134.41	128.08
33	kK	201	CYC	CHD-C4C-NC	2.59	128.29	125.20
33	B2	301	CYC	CHB-C1B-NB	-2.59	120.50	126.06
33	gJ	202	CYC	CHB-C1B-NB	-2.59	120.50	126.06
36	bE	603	CLA	C1B-CHB-C4A	-2.59	124.98	130.12
43	bD	618	BCR	C30-C25-C26	-2.59	118.96	122.61
33	i2	202	CYC	CHB-C1B-NB	-2.59	120.50	126.06
33	3K	101	CYC	C1A-C2A-C3A	-2.59	103.92	106.78
33	B4	1001	CYC	CBB-CAB-C3B	-2.59	105.29	112.43
33	c3	202	CYC	CMB-C2B-C1B	2.59	127.40	124.17
36	CD	507	CLA	CHB-C4A-NA	2.59	128.09	124.51
33	BB	1001	CYC	CBB-CAB-C3B	-2.59	105.29	112.43
33	uB	201	CYC	C4D-CHA-C1A	2.59	131.90	128.81
33	mH	201	CYC	CHA-C1A-NA	-2.59	125.23	128.83
33	i5	202	CYC	CHB-C1B-NB	-2.59	120.50	126.06
33	d8	201	CYC	OB-C4B-NB	-2.59	119.06	125.08
33	iJ	202	CYC	CHB-C1B-NB	-2.59	120.50	126.06
37	aD	408	PL9	C35-C34-C36	2.59	119.62	115.27
42	DD	410	LHG	O8-C23-C24	2.59	120.03	111.91
36	C1	505	CLA	C2D-C1D-ND	-2.59	108.20	110.10
36	C1	512	CLA	C2D-C1D-ND	-2.59	108.20	110.10
36	cD	509	CLA	OBD-CAD-C3D	2.59	134.75	128.52
33	3F	102	CYC	CHB-C1B-NB	-2.59	120.50	126.06
36	xD	101	CLA	CHB-C4A-NA	2.59	128.09	124.51
42	D1	409	LHG	O8-C23-C24	2.59	120.03	111.91
33	KK	201	CYC	OC-C1C-C2C	-2.59	124.12	126.17
36	CE	509	CLA	O2D-CGD-O1D	-2.59	118.78	123.84
44	HD	103	DGD	C2G-O2G-C1B	-2.59	111.42	117.79
33	1L	201	CYC	C4A-C3A-C2A	-2.59	103.54	106.51
33	mA	201	CYC	CHA-C1A-NA	-2.59	125.24	128.83
33	kF	201	CYC	CHD-C4C-NC	2.59	128.28	125.20
42	DE	410	LHG	O8-C23-C24	2.59	120.02	111.91
36	CE	505	CLA	C2D-C1D-ND	-2.59	108.20	110.10
36	C1	513	CLA	C2A-C1A-CHA	2.58	128.38	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	dJ	201	CYC	OB-C4B-NB	-2.58	119.07	125.08
33	ZF	201	CYC	C1A-C2A-C3A	-2.58	103.92	106.78
33	cH	201	CYC	OC-C1C-C2C	-2.58	124.12	126.17
33	ZF	201	CYC	CHB-C1B-NB	-2.58	120.51	126.06
33	7G	201	CYC	CHB-C1B-C2B	2.58	132.07	126.95
33	iI	202	CYC	CHB-C1B-NB	-2.58	120.51	126.06
33	k6	201	CYC	OC-C1C-C2C	-2.58	124.12	126.17
38	hD	103	SQD	O48-C23-O10	-2.58	117.07	123.59
33	u4	201	CYC	C4D-CHA-C1A	2.58	131.89	128.81
33	c8	201	CYC	OC-C1C-C2C	-2.58	124.12	126.17
36	C1	508	CLA	O2D-CGD-O1D	-2.58	118.79	123.84
42	A1	411	LHG	O8-C23-C24	2.58	120.01	111.91
33	i8	202	CYC	CHB-C1B-NB	-2.58	120.52	126.06
38	hE	103	SQD	O48-C23-O10	-2.58	117.08	123.59
36	aE	404	CLA	O2D-CGD-O1D	-2.58	118.79	123.84
33	9K	201	CYC	C4A-C3A-C2A	-2.58	103.54	106.51
37	a1	409	PL9	C35-C34-C36	2.58	119.61	115.27
33	i9	202	CYC	CHB-C1B-NB	-2.58	120.52	126.06
33	B9	301	CYC	CHB-C1B-NB	-2.58	120.52	126.06
33	iH	202	CYC	CHB-C1B-NB	-2.58	120.52	126.06
45	aD	412	PHO	C4-C3-C5	2.58	119.61	115.27
42	AE	411	LHG	O8-C23-C24	2.58	120.00	111.91
36	C1	509	CLA	O2D-CGD-O1D	-2.58	118.80	123.84
33	cK	201	CYC	OC-C1C-C2C	-2.58	124.12	126.17
36	B1	605	CLA	CHB-C4A-NA	2.58	128.08	124.51
44	H1	103	DGD	C2G-O2G-C1B	-2.58	111.44	117.79
33	B4	1004	CYC	CHB-C1B-NB	-2.58	120.52	126.06
33	m3	201	CYC	CHA-C1A-NA	-2.58	125.25	128.83
45	DE	403	PHO	O1D-CGD-CBD	-2.58	120.45	124.74
33	7L	201	CYC	CHB-C1B-C2B	2.58	132.06	126.95
33	ZK	201	CYC	CHB-C1B-NB	-2.58	120.53	126.06
33	iC	202	CYC	CHB-C1B-NB	-2.58	120.53	126.06
33	XK	201	CYC	CBD-CAD-C3D	-2.58	108.22	112.62
36	c1	509	CLA	OBD-CAD-C3D	2.58	134.72	128.52
38	h1	103	SQD	O48-C23-O10	-2.58	117.09	123.59
33	BC	301	CYC	CHB-C1B-NB	-2.58	120.53	126.06
33	XF	201	CYC	CBD-CAD-C3D	-2.58	108.22	112.62
40	A1	409	LMT	C4'-C3'-C2'	2.58	115.32	110.82
33	g8	202	CYC	CHB-C1B-NB	-2.58	120.53	126.06
33	c9	202	CYC	CMB-C2B-C1B	2.58	127.38	124.17
33	BB	1004	CYC	C4A-C3A-C2A	-2.58	103.55	106.51
33	BA	301	CYC	CHB-C1B-NB	-2.57	120.53	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	BI	301	CYC	CHB-C1B-NB	-2.57	120.53	126.06
33	B6	301	CYC	CHB-C1B-NB	-2.57	120.53	126.06
45	A1	412	PHO	C4-C3-C5	2.57	119.60	115.27
36	bD	603	CLA	C1B-CHB-C4A	-2.57	125.02	130.12
36	DD	406	CLA	CHB-C4A-NA	2.57	128.07	124.51
36	CD	512	CLA	C2D-C1D-ND	-2.57	108.21	110.10
33	m7	201	CYC	CHA-C1A-NA	-2.57	125.26	128.83
33	gH	202	CYC	CHB-C1B-NB	-2.57	120.53	126.06
33	cH	202	CYC	CMB-C2B-C1B	2.57	127.38	124.17
33	iA	202	CYC	CHB-C1B-NB	-2.57	120.53	126.06
33	gF	201	CYC	CAA-C2A-C1A	2.57	129.56	125.01
33	cJ	201	CYC	OC-C1C-C2C	-2.57	124.13	126.17
39	aD	407	LMG	C8-O7-C10	-2.57	111.46	117.79
39	aE	407	LMG	C8-O7-C10	-2.57	111.46	117.79
33	QL	201	CYC	C1A-C2A-C3A	-2.57	103.94	106.78
33	g5	202	CYC	CHB-C1B-NB	-2.57	120.53	126.06
36	BD	605	CLA	CHD-C1D-ND	-2.57	122.09	124.45
47	V1	201	HEM	CHB-C1B-C2B	-2.57	119.61	126.72
33	i7	202	CYC	CHB-C1B-NB	-2.57	120.54	126.06
36	CE	513	CLA	O2D-CGD-O1D	-2.57	118.81	123.84
33	c5	202	CYC	CMB-C2B-C1B	2.57	127.38	124.17
36	a1	407	CLA	C4-C3-C5	2.57	119.60	115.27
33	c6	201	CYC	OC-C1C-C2C	-2.57	124.13	126.17
33	cI	201	CYC	OC-C1C-C2C	-2.57	124.13	126.17
36	BE	605	CLA	C3C-C4C-NC	-2.57	107.69	110.57
36	a1	407	CLA	C1B-CHB-C4A	-2.57	125.03	130.12
36	aE	406	CLA	C4-C3-C5	2.57	119.59	115.27
42	AD	411	LHG	O8-C23-C24	2.57	119.97	111.91
33	fK	201	CYC	CAA-C2A-C1A	2.57	129.55	125.01
43	B1	616	BCR	C8-C7-C6	-2.57	119.99	127.20
33	CB	1003	CYC	C1A-C2A-C3A	-2.57	103.94	106.78
33	i6	202	CYC	CHB-C1B-NB	-2.57	120.54	126.06
47	VE	201	HEM	CHB-C1B-C2B	-2.57	119.62	126.72
33	m6	201	CYC	CHA-C1A-NA	-2.57	125.27	128.83
43	CD	516	BCR	C15-C14-C13	-2.57	123.65	127.31
43	B1	617	BCR	C30-C25-C26	-2.57	119.00	122.61
36	b1	603	CLA	C1B-CHB-C4A	-2.57	125.03	130.12
43	BE	617	BCR	C30-C25-C26	-2.57	119.00	122.61
45	D1	402	PHO	O1D-CGD-CBD	-2.56	120.47	124.74
36	CD	508	CLA	O2D-CGD-O1D	-2.56	118.82	123.84
33	cC	201	CYC	OC-C1C-C2C	-2.56	124.13	126.17
33	eJ	201	CYC	CHB-C1B-NB	-2.56	120.55	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	ZK	201	CYC	CBC-CAC-C3C	2.56	119.17	113.47
38	AD	407	SQD	O9-S-C6	2.56	109.98	106.94
36	A1	404	CLA	CMC-C2C-C1C	-2.56	121.14	125.04
33	eI	201	CYC	CHB-C1B-NB	-2.56	120.56	126.06
36	aD	406	CLA	C4-C3-C5	2.56	119.58	115.27
36	bD	607	CLA	CHD-C1D-ND	-2.56	122.10	124.45
33	z4	201	CYC	C2C-C1C-NC	2.56	110.48	108.27
33	BB	1004	CYC	CHB-C1B-NB	-2.56	120.56	126.06
47	vE	201	HEM	CHB-C1B-C2B	-2.56	119.63	126.72
36	CD	505	CLA	C2D-C1D-ND	-2.56	108.22	110.10
36	aD	405	CLA	C3A-C2A-C1A	2.56	105.18	101.34
33	c6	202	CYC	CMB-C2B-C1B	2.56	127.36	124.17
33	cJ	202	CYC	CMB-C2B-C1B	2.56	127.36	124.17
33	7G	201	CYC	CHD-C4C-NC	2.56	128.25	125.20
33	ZF	201	CYC	CBC-CAC-C3C	2.56	119.17	113.47
33	c2	201	CYC	CHB-C1B-NB	-2.56	120.56	126.06
33	ZK	201	CYC	C1A-C2A-C3A	-2.56	103.95	106.78
36	CD	509	CLA	O2D-CGD-O1D	-2.56	118.83	123.84
36	B1	614	CLA	C3C-C4C-NC	-2.56	107.70	110.57
33	R4	201	CYC	C4A-C3A-C2A	-2.56	103.57	106.51
33	YK	201	CYC	C1B-C2B-C3B	-2.56	105.20	107.87
33	5G	201	CYC	CHB-C4A-C3A	2.56	131.48	124.90
47	VD	201	HEM	CHB-C1B-C2B	-2.56	119.64	126.72
33	cA	202	CYC	CMB-C2B-C1B	2.56	127.36	124.17
43	bD	617	BCR	C8-C7-C6	-2.56	120.02	127.20
33	C4	1003	CYC	C1A-C2A-C3A	-2.56	103.95	106.78
36	CE	512	CLA	CMB-C2B-C3B	2.56	129.47	124.68
36	D1	405	CLA	CHB-C4A-NA	2.56	128.05	124.51
36	CE	508	CLA	O2D-CGD-O1D	-2.56	118.84	123.84
38	AE	407	SQD	O9-S-C6	2.56	109.98	106.94
33	c2	202	CYC	CMB-C2B-C1B	2.56	127.36	124.17
44	h1	104	DGD	O5D-C1E-C2E	-2.56	104.31	108.30
36	C1	513	CLA	O2D-CGD-O1D	-2.56	118.84	123.84
33	e5	201	CYC	CHB-C1B-NB	-2.56	120.57	126.06
43	BD	616	BCR	C8-C7-C6	-2.56	120.02	127.20
33	BB	1002	CYC	C1A-C2A-C3A	-2.56	103.95	106.78
33	zB	201	CYC	C2C-C1C-NC	2.56	110.48	108.27
40	AD	409	LMT	C4'-C3'-C2'	2.56	115.29	110.82
43	b1	617	BCR	C8-C7-C6	-2.56	120.02	127.20
47	vD	201	HEM	CHB-C1B-C2B	-2.56	119.65	126.72
36	b1	615	CLA	C3C-C4C-NC	-2.56	107.70	110.57
36	BD	605	CLA	CHB-C4A-NA	2.56	128.05	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BD	607	CLA	O2D-CGD-O1D	-2.56	118.84	123.84
36	aD	404	CLA	O2D-CGD-O1D	-2.56	118.84	123.84
33	cI	201	CYC	CHB-C1B-NB	-2.56	120.57	126.06
36	BD	604	CLA	CMB-C2B-C1B	-2.56	124.54	128.46
43	zE	101	BCR	C38-C26-C27	2.56	118.53	113.62
36	BE	601	CLA	C1B-CHB-C4A	-2.56	125.06	130.12
43	ZE	101	BCR	C36-C18-C17	-2.55	119.34	122.92
36	a1	405	CLA	O2D-CGD-O1D	-2.55	118.84	123.84
33	c2	201	CYC	OC-C1C-C2C	-2.55	124.14	126.17
33	B7	301	CYC	CHB-C1B-NB	-2.55	120.58	126.06
33	5L	201	CYC	CHB-C4A-C3A	2.55	131.47	124.90
36	B1	602	CLA	C3C-C4C-NC	-2.55	107.71	110.57
36	aD	406	CLA	C1B-CHB-C4A	-2.55	125.06	130.12
36	CD	513	CLA	O2D-CGD-O1D	-2.55	118.85	123.84
36	BE	605	CLA	CHB-C4A-NA	2.55	128.04	124.51
43	BD	616	BCR	C1-C6-C5	-2.55	119.02	122.61
33	fF	201	CYC	CAA-C2A-C1A	2.55	129.52	125.01
43	BE	616	BCR	C8-C7-C6	-2.55	120.04	127.20
43	ZE	101	BCR	C38-C26-C27	2.55	118.52	113.62
33	eC	201	CYC	CHB-C1B-NB	-2.55	120.58	126.06
44	JE	101	DGD	O1G-C1A-C2A	2.55	119.91	111.91
45	DE	401	PHO	C14-C13-C15	2.55	120.53	111.29
37	aE	408	PL9	C35-C34-C36	2.55	119.56	115.27
36	DE	405	CLA	CAA-C2A-C3A	-2.55	105.79	112.78
33	cI	202	CYC	CMB-C2B-C1B	2.55	127.35	124.17
36	BE	604	CLA	CMB-C2B-C1B	-2.55	124.54	128.46
33	3F	101	CYC	C1B-CHB-C4A	2.55	134.31	128.08
33	3K	101	CYC	C1B-CHB-C4A	2.55	134.31	128.08
36	C1	512	CLA	CMB-C2B-C3B	2.55	129.45	124.68
33	IF	201	CYC	CAB-C3B-C2B	2.55	131.89	127.53
43	ZE	101	BCR	C1-C6-C5	-2.55	119.02	122.61
43	B1	616	BCR	C1-C6-C5	-2.55	119.02	122.61
36	BD	601	CLA	C1B-CHB-C4A	-2.55	125.07	130.12
36	DD	405	CLA	CAA-C2A-C3A	-2.55	105.80	112.78
33	GL	201	CYC	CMB-C2B-C1B	2.55	127.35	124.17
33	B4	1002	CYC	C1A-C2A-C3A	-2.55	103.96	106.78
37	A1	406	PL9	C30-C29-C31	2.55	119.56	115.27
43	zD	101	BCR	C38-C26-C27	2.55	118.51	113.62
47	v1	201	HEM	CHB-C1B-C2B	-2.55	119.68	126.72
33	cA	201	CYC	OC-C1C-C2C	-2.55	124.15	126.17
40	AE	409	LMT	C4'-C3'-C2'	2.55	115.27	110.82
36	CD	513	CLA	C2A-C1A-CHA	2.55	128.31	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	bE	606	CLA	CMB-C2B-C1B	-2.55	124.55	128.46
43	bE	617	BCR	C8-C7-C6	-2.55	120.05	127.20
36	aE	405	CLA	C3A-C2A-C1A	2.55	105.15	101.34
43	C1	516	BCR	C15-C14-C13	-2.55	123.68	127.31
33	e2	201	CYC	CHB-C1B-NB	-2.55	120.59	126.06
36	CD	512	CLA	CMB-C2B-C3B	2.55	129.44	124.68
36	dE	405	CLA	CAA-C2A-C3A	-2.55	105.81	112.78
43	BE	616	BCR	C1-C6-C5	-2.55	119.03	122.61
33	c3	201	CYC	CHB-C1B-NB	-2.55	120.59	126.06
33	LL	201	CYC	CBC-CAC-C3C	2.55	119.13	113.47
36	B1	604	CLA	CMB-C2B-C1B	-2.55	124.55	128.46
36	DE	406	CLA	CHB-C4A-NA	2.54	128.03	124.51
33	c9	201	CYC	CHB-C1B-NB	-2.54	120.59	126.06
43	z1	101	BCR	C38-C26-C27	2.54	118.50	113.62
36	C1	507	CLA	C1B-CHB-C4A	-2.54	125.08	130.12
36	x1	101	CLA	CHB-C4A-NA	2.54	128.03	124.51
36	bE	607	CLA	CHB-C4A-NA	2.54	128.03	124.51
33	TB	201	CYC	CHB-C4A-C3A	2.54	131.44	124.90
33	HG	201	CYC	C1B-CHB-C4A	2.54	134.30	128.08
33	T4	201	CYC	CHB-C4A-C3A	2.54	131.44	124.90
33	k7	201	CYC	CHB-C1B-NB	-2.54	120.60	126.06
36	BE	610	CLA	CHC-C1C-NC	2.54	128.06	124.20
37	AD	406	PL9	C30-C29-C31	2.54	119.55	115.27
43	CD	520	BCR	C3-C4-C5	-2.54	109.54	114.08
33	e3	201	CYC	CHB-C1B-NB	-2.54	120.60	126.06
33	eH	201	CYC	CHB-C1B-NB	-2.54	120.60	126.06
36	bD	607	CLA	CHB-C4A-NA	2.54	128.03	124.51
33	k5	201	CYC	CHB-C1B-NB	-2.54	120.60	126.06
33	e8	201	CYC	CHB-C1B-NB	-2.54	120.60	126.06
44	cE	516	DGD	C2G-O2G-C1B	2.54	124.05	117.79
36	bD	615	CLA	C3C-C4C-NC	-2.54	107.72	110.57
33	LG	201	CYC	CBC-CAC-C3C	2.54	119.12	113.47
44	JD	101	DGD	O1G-C1A-C2A	2.54	119.88	111.91
43	Z1	101	BCR	C36-C18-C17	-2.54	119.36	122.92
36	BD	605	CLA	C3C-C4C-NC	-2.54	107.72	110.57
33	i9	202	CYC	OC-C1C-C2C	-2.54	124.15	126.17
33	yB	201	CYC	CMD-C2D-C3D	-2.54	120.16	124.94
36	bE	613	CLA	CMB-C2B-C3B	2.54	129.43	124.68
33	k6	201	CYC	CHB-C1B-NB	-2.54	120.61	126.06
44	J1	101	DGD	O1G-C1A-C2A	2.54	119.87	111.91
36	a1	406	CLA	C3A-C2A-C1A	2.54	105.14	101.34
36	dD	405	CLA	CAA-C2A-C3A	-2.54	105.83	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	d1	405	CLA	CAA-C2A-C3A	-2.54	105.83	112.78
33	aF	201	CYC	CAA-CBA-CGA	-2.54	108.14	113.60
33	RB	201	CYC	C4A-C3A-C2A	-2.54	103.59	106.51
36	C1	515	CLA	O2D-CGD-O1D	-2.54	118.88	123.84
36	D1	404	CLA	CAA-C2A-C3A	-2.54	105.83	112.78
38	A1	407	SQD	O9-S-C6	2.54	109.95	106.94
33	c7	201	CYC	OC-C1C-C2C	-2.54	124.16	126.17
36	B1	605	CLA	CHD-C1D-ND	-2.54	122.12	124.45
36	AD	404	CLA	CMC-C2C-C1C	-2.54	121.18	125.04
36	BE	601	CLA	O2D-CGD-O1D	-2.54	118.88	123.84
33	e9	201	CYC	CHB-C1B-NB	-2.54	120.61	126.06
33	hF	201	CYC	C1B-C2B-C3B	-2.53	105.23	107.87
33	IK	201	CYC	CAB-C3B-C2B	2.53	131.86	127.53
33	k2	201	CYC	CHB-C1B-NB	-2.53	120.62	126.06
33	c5	201	CYC	CHB-C1B-NB	-2.53	120.62	126.06
43	CE	520	BCR	C3-C4-C5	-2.53	109.55	114.08
36	b1	606	CLA	CMB-C2B-C1B	-2.53	124.57	128.46
33	c7	201	CYC	CHB-C1B-NB	-2.53	120.62	126.06
36	CE	507	CLA	C1B-CHB-C4A	-2.53	125.10	130.12
33	eA	201	CYC	CHB-C1B-NB	-2.53	120.62	126.06
33	HL	201	CYC	C1B-CHB-C4A	2.53	134.27	128.08
33	kC	201	CYC	CHB-C1B-NB	-2.53	120.62	126.06
36	BE	607	CLA	O2D-CGD-O1D	-2.53	118.89	123.84
36	CD	507	CLA	C1B-CHB-C4A	-2.53	125.10	130.12
33	y4	201	CYC	CMD-C2D-C3D	-2.53	120.17	124.94
36	aE	406	CLA	C1B-CHB-C4A	-2.53	125.10	130.12
36	XD	101	CLA	CHB-C4A-NA	2.53	128.01	124.51
36	b1	611	CLA	CHC-C1C-NC	2.53	128.04	124.20
33	cH	201	CYC	CHB-C1B-NB	-2.53	120.62	126.06
33	QG	201	CYC	C1A-C2A-C3A	-2.53	103.98	106.78
36	B1	601	CLA	C1B-CHB-C4A	-2.53	125.10	130.12
44	cD	516	DGD	C2G-O2G-C1B	2.53	124.02	117.79
33	cJ	201	CYC	CHB-C1B-NB	-2.53	120.62	126.06
43	ZD	101	BCR	C38-C26-C27	2.53	118.48	113.62
36	BD	601	CLA	O2D-CGD-O1D	-2.53	118.89	123.84
33	kA	201	CYC	CHB-C1B-NB	-2.53	120.63	126.06
33	cC	201	CYC	CHB-C1B-NB	-2.53	120.63	126.06
33	k3	201	CYC	CHB-C1B-NB	-2.53	120.63	126.06
33	QL	201	CYC	CAA-C2A-C1A	2.53	129.48	125.01
33	k9	201	CYC	CHB-C1B-NB	-2.53	120.63	126.06
36	bD	606	CLA	CMB-C2B-C1B	-2.53	124.58	128.46
36	b1	607	CLA	CHB-C4A-NA	2.53	128.01	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	CD	515	CLA	O2D-CGD-O1D	-2.53	118.90	123.84
33	kH	201	CYC	CHB-C1B-NB	-2.53	120.63	126.06
33	XK	201	CYC	C2A-C1A-NA	2.53	113.72	110.05
36	B1	610	CLA	C1B-CHB-C4A	-2.53	125.11	130.12
36	bE	607	CLA	C3C-C4C-NC	-2.53	107.74	110.57
33	aK	201	CYC	CAA-CBA-CGA	-2.53	108.17	113.60
33	kI	201	CYC	CHB-C1B-NB	-2.53	120.63	126.06
36	bD	607	CLA	C3C-C4C-NC	-2.53	107.74	110.57
36	C1	508	CLA	CHB-C4A-NA	2.53	128.00	124.51
36	C1	512	CLA	CAA-C2A-C3A	-2.53	105.86	112.78
33	GG	201	CYC	CMB-C2B-C1B	2.53	127.32	124.17
36	BE	609	CLA	CAA-C2A-C3A	-2.53	105.86	112.78
36	BD	610	CLA	CHC-C1C-NC	2.53	128.03	124.20
36	X1	101	CLA	C1B-CHB-C4A	-2.52	125.12	130.12
36	BD	614	CLA	C3C-C4C-NC	-2.52	107.74	110.57
36	b1	607	CLA	C3C-C4C-NC	-2.52	107.74	110.57
44	hD	104	DGD	O5D-C1E-C2E	-2.52	104.36	108.30
43	C1	520	BCR	C3-C4-C5	-2.52	109.57	114.08
33	e7	201	CYC	CHB-C1B-NB	-2.52	120.64	126.06
33	hK	201	CYC	C1B-C2B-C3B	-2.52	105.24	107.87
36	iE	101	CLA	C1B-CHB-C4A	-2.52	125.12	130.12
33	PL	201	CYC	OC-C1C-C2C	-2.52	124.17	126.17
43	ZD	101	BCR	C36-C18-C17	-2.52	119.39	122.92
36	xE	101	CLA	O2D-CGD-O1D	-2.52	118.91	123.84
36	b1	607	CLA	CHD-C1D-ND	-2.52	122.14	124.45
33	c6	201	CYC	CHB-C1B-NB	-2.52	120.64	126.06
33	k8	201	CYC	CHB-C1B-NB	-2.52	120.64	126.06
43	ZD	101	BCR	C1-C6-C5	-2.52	119.06	122.61
36	b1	609	CLA	O2D-CGD-O1D	-2.52	118.91	123.84
33	7L	201	CYC	CHD-C4C-NC	2.52	128.20	125.20
36	CE	513	CLA	C2A-C1A-CHA	2.52	128.27	123.86
33	QG	201	CYC	CAA-C2A-C1A	2.52	129.47	125.01
36	CE	515	CLA	O2D-CGD-O1D	-2.52	118.91	123.84
44	hE	104	DGD	O5D-C1E-C2E	-2.52	104.37	108.30
43	Z1	101	BCR	C38-C26-C27	2.52	118.46	113.62
36	XD	101	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
36	bE	615	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
36	AD	404	CLA	C2D-C1D-ND	-2.52	108.25	110.10
36	CE	512	CLA	C2D-C1D-ND	-2.52	108.25	110.10
37	AE	406	PL9	C30-C29-C31	2.52	119.51	115.27
36	BD	602	CLA	C3C-C4C-NC	-2.52	107.75	110.57
36	BD	614	CLA	C1B-CHB-C4A	-2.52	125.13	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	AE	404	CLA	CMC-C2C-C1C	-2.52	121.20	125.04
44	c1	516	DGD	C2G-O2G-C1B	2.52	123.99	117.79
33	VL	201	CYC	CAC-C3C-C4C	-2.52	106.21	112.67
36	BE	612	CLA	CMB-C2B-C3B	2.52	129.39	124.68
36	B1	607	CLA	O2D-CGD-O1D	-2.52	118.92	123.84
36	B1	609	CLA	CAA-C2A-C3A	-2.52	105.89	112.78
36	iD	101	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
36	BE	614	CLA	C3C-C4C-NC	-2.52	107.75	110.57
33	cA	201	CYC	CHB-C1B-NB	-2.52	120.66	126.06
36	bD	613	CLA	CMB-C2B-C3B	2.52	129.38	124.68
33	c3	201	CYC	CHB-C4A-C3A	2.52	131.37	124.90
36	bD	615	CLA	C1B-CHB-C4A	-2.51	125.14	130.12
44	JE	101	DGD	C2G-O2G-C1B	-2.51	111.60	117.79
36	B1	610	CLA	CHC-C1C-NC	2.51	128.02	124.20
36	bE	615	CLA	C3C-C4C-NC	-2.51	107.75	110.57
36	BD	609	CLA	CAA-C2A-C3A	-2.51	105.89	112.78
33	i5	202	CYC	OC-C1C-C2C	-2.51	124.17	126.17
33	i8	202	CYC	OC-C1C-C2C	-2.51	124.17	126.17
36	BE	612	CLA	O2D-CGD-O1D	-2.51	118.92	123.84
42	eD	101	LHG	C5-O7-C7	-2.51	111.60	117.79
36	BD	612	CLA	CMB-C2B-C3B	2.51	129.38	124.68
36	B1	612	CLA	CMB-C2B-C3B	2.51	129.38	124.68
36	bD	604	CLA	C3C-C4C-NC	-2.51	107.75	110.57
33	cA	201	CYC	CHB-C4A-C3A	2.51	131.36	124.90
33	z4	201	CYC	CMA-C3A-C4A	2.51	128.93	125.06
36	b1	613	CLA	CMB-C2B-C3B	2.51	129.38	124.68
36	xD	101	CLA	C1B-CHB-C4A	-2.51	125.14	130.12
33	kJ	201	CYC	CHB-C1B-NB	-2.51	120.67	126.06
45	DD	403	PHO	O1D-CGD-CBD	-2.51	120.56	124.74
36	C1	510	CLA	OBD-CAD-C3D	2.51	134.56	128.52
33	VG	201	CYC	CAC-C3C-C4C	-2.51	106.22	112.67
44	cE	516	DGD	O1G-C1A-O1A	-2.51	117.25	123.59
33	nF	201	CYC	C2A-C1A-NA	2.51	113.70	110.05
33	e6	201	CYC	CHB-C1B-NB	-2.51	120.67	126.06
33	c8	201	CYC	CHB-C1B-NB	-2.51	120.67	126.06
45	DD	401	PHO	C4-C3-C5	2.51	119.50	115.27
36	B1	605	CLA	C3C-C4C-NC	-2.51	107.75	110.57
36	bD	611	CLA	CHC-C1C-NC	2.51	128.01	124.20
40	bD	601	LMT	C4-C3-C2	-2.51	101.68	114.42
36	BD	612	CLA	O2D-CGD-O1D	-2.51	118.93	123.84
40	b1	601	LMT	C4-C3-C2	-2.51	101.68	114.42
44	c1	516	DGD	O1G-C1A-O1A	-2.51	117.26	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	XE	101	CLA	CHB-C4A-NA	2.51	127.98	124.51
44	JD	101	DGD	C2G-O2G-C1B	-2.51	111.62	117.79
36	BE	614	CLA	C1B-CHB-C4A	-2.51	125.15	130.12
36	CD	510	CLA	OBD-CAD-C3D	2.51	134.56	128.52
36	B1	601	CLA	O2D-CGD-O1D	-2.51	118.94	123.84
36	AE	404	CLA	C2D-C1D-ND	-2.51	108.26	110.10
44	J1	101	DGD	C2G-O2G-C1B	-2.51	111.62	117.79
33	zB	201	CYC	CMA-C3A-C4A	2.51	128.93	125.06
44	cD	516	DGD	O1G-C1A-O1A	-2.51	117.27	123.59
43	bD	617	BCR	C1-C6-C5	-2.51	119.08	122.61
43	b1	616	BCR	C30-C25-C24	2.51	122.87	115.78
33	c9	201	CYC	CHB-C4A-C3A	2.51	131.34	124.90
33	eJ	201	CYC	CHB-C4A-C3A	2.51	131.34	124.90
33	TG	201	CYC	CBD-CAD-C3D	-2.51	108.34	112.62
36	bE	609	CLA	O2D-CGD-O1D	-2.51	118.94	123.84
33	XF	201	CYC	C2A-C1A-NA	2.51	113.69	110.05
33	KF	201	CYC	C4A-C3A-C2A	-2.51	103.63	106.51
42	eE	101	LHG	C5-O7-C7	-2.51	111.62	117.79
36	CD	512	CLA	CAA-C2A-C3A	-2.50	105.92	112.78
33	c8	201	CYC	CHB-C4A-C3A	2.50	131.34	124.90
36	x1	101	CLA	O2D-CGD-O1D	-2.50	118.94	123.84
42	e1	101	LHG	C5-O7-C7	-2.50	111.62	117.79
43	bE	617	BCR	C1-C6-C5	-2.50	119.09	122.61
43	BD	615	BCR	C30-C25-C24	2.50	122.86	115.78
33	ZF	201	CYC	CHB-C4A-C3A	2.50	131.34	124.90
36	X1	101	CLA	CHB-C4A-NA	2.50	127.97	124.51
40	bE	601	LMT	C4-C3-C2	-2.50	101.71	114.42
36	BD	610	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
36	B1	612	CLA	O2D-CGD-O1D	-2.50	118.94	123.84
36	CE	512	CLA	CAA-C2A-C3A	-2.50	105.92	112.78
43	BE	615	BCR	C30-C25-C24	2.50	122.86	115.78
36	CE	510	CLA	OBD-CAD-C3D	2.50	134.54	128.52
33	cJ	201	CYC	CHB-C4A-C3A	2.50	131.34	124.90
36	b1	611	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
36	xE	101	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
33	r4	201	CYC	CMB-C2B-C1B	2.50	127.29	124.17
33	cF	201	CYC	C1A-NA-C4A	-2.50	101.80	106.51
33	rB	201	CYC	CMB-C2B-C1B	2.50	127.29	124.17
33	c2	201	CYC	CHB-C4A-C3A	2.50	131.34	124.90
33	3F	102	CYC	C2C-C1C-NC	2.50	110.43	108.27
33	R4	201	CYC	CHA-C1A-C2A	-2.50	119.54	125.32
33	ZK	201	CYC	CHB-C4A-C3A	2.50	131.33	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	XE	101	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
36	BE	607	CLA	C2A-C1A-CHA	2.50	128.23	123.86
36	CE	508	CLA	CHB-C4A-NA	2.50	127.97	124.51
33	cF	201	CYC	CMC-C2C-C1C	-2.50	107.01	112.40
36	x1	101	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
36	BE	610	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
33	nK	201	CYC	C2A-C1A-NA	2.50	113.69	110.05
33	cH	201	CYC	CHB-C4A-C3A	2.50	131.33	124.90
33	iH	202	CYC	OC-C1C-C2C	-2.50	124.19	126.17
43	b1	617	BCR	C1-C6-C5	-2.50	119.09	122.61
36	c1	506	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
33	KK	201	CYC	C4A-C3A-C2A	-2.50	103.64	106.51
33	mK	201	CYC	CAC-C3C-C4C	-2.50	106.26	112.67
33	b4	101	CYC	CAA-C2A-C1A	2.50	129.43	125.01
36	bD	609	CLA	O2D-CGD-O1D	-2.50	118.95	123.84
33	S4	201	CYC	C4A-C3A-C2A	-2.50	103.64	106.51
33	eK	201	CYC	C2C-C1C-NC	2.50	110.43	108.27
36	b1	615	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
36	bD	610	CLA	CAA-C2A-C3A	-2.50	105.94	112.78
43	bD	616	BCR	C30-C25-C24	2.50	122.84	115.78
33	c5	201	CYC	CHB-C4A-C3A	2.50	131.32	124.90
33	NG	201	CYC	OC-C1C-NC	2.50	127.97	124.94
36	b1	604	CLA	C3C-C4C-NC	-2.50	107.77	110.57
36	c1	504	CLA	C2D-C1D-ND	-2.50	108.27	110.10
36	B1	614	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
43	ZE	101	BCR	C3-C4-C5	-2.49	109.62	114.08
36	BE	602	CLA	C3C-C4C-NC	-2.49	107.77	110.57
40	A1	413	LMT	O5'-C1'-O1'	-2.49	104.07	109.97
33	c7	201	CYC	CHB-C4A-C3A	2.49	131.31	124.90
33	iA	202	CYC	OC-C1C-C2C	-2.49	124.19	126.17
33	iC	202	CYC	OC-C1C-C2C	-2.49	124.19	126.17
45	d1	402	PHO	CMD-C2D-C3D	-2.49	120.01	124.68
33	i5	202	CYC	CHB-C4A-C3A	2.49	131.31	124.90
43	B1	615	BCR	C30-C25-C24	2.49	122.83	115.78
36	bE	611	CLA	CHC-C1C-NC	2.49	127.99	124.20
36	bE	613	CLA	CHB-C4A-NA	2.49	127.96	124.51
36	XD	101	CLA	O2D-CGD-O1D	-2.49	118.96	123.84
33	i7	202	CYC	CHB-C4A-C3A	2.49	131.31	124.90
36	A1	404	CLA	C2D-C1D-ND	-2.49	108.27	110.10
36	xD	101	CLA	O2D-CGD-O1D	-2.49	118.97	123.84
33	cK	201	CYC	CMC-C2C-C1C	-2.49	107.03	112.40
33	iJ	202	CYC	CHB-C4A-C3A	2.49	131.31	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	AD	412	LMT	O5'-C1'-O1'	-2.49	104.07	109.97
33	cK	201	CYC	C1A-NA-C4A	-2.49	101.82	106.51
36	b1	613	CLA	O2D-CGD-O1D	-2.49	118.97	123.84
33	mF	201	CYC	CAC-C3C-C4C	-2.49	106.28	112.67
33	jF	201	CYC	CAD-CBD-CGD	-2.49	106.78	113.76
33	5L	201	CYC	CHA-C1A-C2A	-2.49	119.57	125.32
36	CD	506	CLA	CAA-CBA-CGA	2.49	120.53	113.25
43	ZD	101	BCR	C3-C4-C5	-2.49	109.63	114.08
33	O4	201	CYC	C1A-C2A-C3A	-2.49	104.03	106.78
33	jK	201	CYC	CAD-CBD-CGD	-2.49	106.78	113.76
36	b1	610	CLA	CAA-C2A-C3A	-2.49	105.96	112.78
36	bE	607	CLA	CAA-C2A-C3A	-2.49	105.96	112.78
33	eF	201	CYC	C2C-C1C-NC	2.49	110.42	108.27
36	CD	508	CLA	CHB-C4A-NA	2.49	127.95	124.51
36	bE	610	CLA	CAA-C2A-C3A	-2.49	105.96	112.78
33	eA	201	CYC	CHB-C4A-C3A	2.49	131.30	124.90
33	TL	201	CYC	CBD-CAD-C3D	-2.49	108.37	112.62
33	5G	201	CYC	CHA-C1A-C2A	-2.49	119.57	125.32
36	aD	405	CLA	C1B-CHB-C4A	-2.49	125.19	130.12
36	C1	506	CLA	CAA-CBA-CGA	2.49	120.53	113.25
33	RB	201	CYC	CHA-C1A-C2A	-2.49	119.57	125.32
36	bD	613	CLA	CHB-C4A-NA	2.49	127.95	124.51
33	eC	201	CYC	CHB-C4A-C3A	2.49	131.30	124.90
38	h1	103	SQD	O48-C46-C45	-2.49	101.19	108.43
43	b1	616	BCR	C1-C6-C5	-2.49	119.11	122.61
36	BD	607	CLA	C2A-C1A-CHA	2.49	128.21	123.86
36	bE	604	CLA	C3C-C4C-NC	-2.49	107.78	110.57
36	X1	101	CLA	O2D-CGD-O1D	-2.49	118.98	123.84
40	AE	412	LMT	O5'-C1'-O1'	-2.49	104.09	109.97
36	CE	506	CLA	CAA-CBA-CGA	2.49	120.52	113.25
43	B1	617	BCR	C33-C5-C4	2.49	118.39	113.62
33	e3	201	CYC	CHB-C4A-C3A	2.48	131.29	124.90
33	cC	201	CYC	CHB-C4A-C3A	2.48	131.29	124.90
33	eH	201	CYC	CHB-C4A-C3A	2.48	131.29	124.90
33	PG	201	CYC	OC-C1C-C2C	-2.48	124.20	126.17
36	a1	406	CLA	C1B-CHB-C4A	-2.48	125.20	130.12
36	bD	607	CLA	CAA-C2A-C3A	-2.48	105.98	112.78
33	e5	201	CYC	CHB-C4A-C3A	2.48	131.29	124.90
36	c1	510	CLA	CAC-C3C-C2C	-2.48	123.28	127.53
33	NF	101	CYC	CAA-C2A-C1A	2.48	129.40	125.01
38	hD	103	SQD	O48-C46-C45	-2.48	101.21	108.43
33	eK	201	CYC	C1B-NB-C4B	-2.48	107.51	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	i3	202	CYC	OC-C1C-C2C	-2.48	124.20	126.17
38	hE	103	SQD	O48-C46-C45	-2.48	101.21	108.43
33	e2	201	CYC	CHB-C4A-C3A	2.48	131.28	124.90
33	i3	202	CYC	CHB-C4A-C3A	2.48	131.28	124.90
33	PG	201	CYC	CAA-C2A-C1A	2.48	129.40	125.01
33	PL	201	CYC	CAA-C2A-C1A	2.48	129.40	125.01
36	XE	101	CLA	O2D-CGD-O1D	-2.48	118.99	123.84
43	BE	617	BCR	C33-C5-C4	2.48	118.38	113.62
33	oB	201	CYC	C4D-CHA-C1A	2.48	131.77	128.81
36	C1	506	CLA	O2A-CGA-O1A	-2.48	117.33	123.59
33	bB	101	CYC	CAA-C2A-C1A	2.48	129.40	125.01
36	bD	611	CLA	C1B-CHB-C4A	-2.48	125.21	130.12
33	i6	202	CYC	CHB-C4A-C3A	2.48	131.28	124.90
33	i9	202	CYC	CHB-C4A-C3A	2.48	131.28	124.90
43	bE	616	BCR	C30-C25-C24	2.48	122.79	115.78
36	b1	607	CLA	CAA-C2A-C3A	-2.48	105.99	112.78
36	bE	613	CLA	O2D-CGD-O1D	-2.48	118.99	123.84
36	CD	503	CLA	CAA-C2A-C3A	-2.48	105.99	112.78
36	C1	503	CLA	CAA-C2A-C3A	-2.48	105.99	112.78
33	nF	201	CYC	CMC-C2C-C1C	-2.48	107.06	112.40
33	i6	202	CYC	OC-C1C-C2C	-2.48	124.20	126.17
45	DE	401	PHO	C11-C10-C8	2.48	123.93	115.92
33	e6	201	CYC	CHB-C4A-C3A	2.48	131.27	124.90
33	cI	201	CYC	CHB-C4A-C3A	2.48	131.27	124.90
33	iA	202	CYC	CHB-C4A-C3A	2.48	131.27	124.90
33	iH	202	CYC	CHB-C4A-C3A	2.48	131.27	124.90
43	Z1	101	BCR	C1-C6-C5	-2.48	119.13	122.61
33	iI	202	CYC	CHB-C4A-C3A	2.48	131.26	124.90
36	b1	609	CLA	C2A-C1A-CHA	2.48	128.19	123.86
45	DD	401	PHO	O2A-CGA-O1A	-2.47	117.35	123.59
33	XF	201	CYC	CMB-C2B-C1B	2.47	127.25	124.17
33	XK	201	CYC	CMB-C2B-C1B	2.47	127.25	124.17
33	c6	201	CYC	CHB-C4A-C3A	2.47	131.26	124.90
33	YF	201	CYC	OB-C4B-NB	-2.47	119.33	125.08
36	bE	603	CLA	O2D-CGD-O1D	-2.47	119.00	123.84
36	bD	613	CLA	O2D-CGD-O1D	-2.47	119.00	123.84
36	aE	405	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
43	zE	101	BCR	C36-C18-C17	-2.47	119.46	122.92
43	BD	617	BCR	C33-C5-C4	2.47	118.37	113.62
36	cD	510	CLA	CMB-C2B-C3B	2.47	129.30	124.68
36	b1	610	CLA	C2A-C1A-CHA	2.47	128.18	123.86
33	VB	201	CYC	CAA-CBA-CGA	-2.47	108.28	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	Z1	101	BCR	C3-C4-C5	-2.47	109.66	114.08
33	OB	201	CYC	C1A-C2A-C3A	-2.47	104.05	106.78
36	bD	603	CLA	O2D-CGD-O1D	-2.47	119.00	123.84
36	B1	607	CLA	C2A-C1A-CHA	2.47	128.18	123.86
33	eI	201	CYC	CHB-C4A-C3A	2.47	131.26	124.90
33	i2	202	CYC	OC-C1C-C2C	-2.47	124.21	126.17
36	cD	505	CLA	C2D-C1D-ND	-2.47	108.28	110.10
45	DD	401	PHO	C1A-C2A-C3A	2.47	105.19	102.84
36	c1	510	CLA	CHD-C1D-C2D	2.47	130.66	125.48
33	i2	202	CYC	CHB-C4A-C3A	2.47	131.25	124.90
33	iC	202	CYC	CHB-C4A-C3A	2.47	131.25	124.90
36	CD	506	CLA	O2A-CGA-O1A	-2.47	117.36	123.59
33	nK	201	CYC	CMC-C2C-C1C	-2.47	107.08	112.40
45	DE	401	PHO	C9-C8-C10	2.47	120.24	111.29
33	BB	1003	CYC	CBD-CAD-C3D	-2.47	108.41	112.62
33	e9	201	CYC	CHB-C4A-C3A	2.47	131.25	124.90
43	bE	618	BCR	C33-C5-C4	2.47	118.36	113.62
33	i8	202	CYC	CHB-C4A-C3A	2.47	131.25	124.90
33	3K	102	CYC	C2C-C1C-NC	2.47	110.40	108.27
36	B1	605	CLA	CAA-C2A-C3A	-2.47	106.02	112.78
33	k6	201	CYC	CHB-C4A-C3A	2.47	131.25	124.90
33	k7	201	CYC	CHB-C4A-C3A	2.47	131.25	124.90
33	4L	201	CYC	CAA-C2A-C1A	2.47	129.37	125.01
43	z1	101	BCR	C1-C6-C5	-2.47	119.14	122.61
33	dF	201	CYC	OB-C4B-NB	-2.47	119.34	125.08
36	b1	613	CLA	CHB-C4A-NA	2.47	127.92	124.51
33	NL	201	CYC	OC-C1C-NC	2.47	127.93	124.94
33	k2	201	CYC	CHB-C4A-C3A	2.47	131.24	124.90
33	NK	101	CYC	CAA-C2A-C1A	2.47	129.37	125.01
33	aK	201	CYC	C4A-C3A-C2A	-2.47	103.68	106.51
39	C1	519	LMG	C8-O7-C10	-2.47	111.72	117.79
33	e7	201	CYC	CHB-C4A-C3A	2.47	131.24	124.90
33	e8	201	CYC	CHB-C4A-C3A	2.47	131.24	124.90
36	bD	609	CLA	C2A-C1A-CHA	2.47	128.17	123.86
36	c1	503	CLA	CHB-C4A-NA	2.47	127.92	124.51
33	i7	202	CYC	OC-C1C-C2C	-2.47	124.21	126.17
33	dK	201	CYC	OB-C4B-NB	-2.46	119.35	125.08
36	bE	611	CLA	C1B-CHB-C4A	-2.46	125.23	130.12
37	a1	409	PL9	C45-C44-C46	2.46	119.42	115.27
36	A1	404	CLA	CHC-C1C-NC	2.46	127.94	124.20
36	BE	605	CLA	CAA-C2A-C3A	-2.46	106.03	112.78
38	L1	101	SQD	O48-C23-C24	2.46	119.64	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	ZK	201	CYC	C4D-CHA-C1A	2.46	131.75	128.81
43	bD	616	BCR	C1-C6-C5	-2.46	119.14	122.61
36	BD	605	CLA	CAA-C2A-C3A	-2.46	106.03	112.78
36	cD	504	CLA	CHB-C4A-NA	2.46	127.92	124.51
33	o4	201	CYC	C4D-CHA-C1A	2.46	131.75	128.81
43	bD	618	BCR	C33-C5-C4	2.46	118.35	113.62
36	bD	610	CLA	C2A-C1A-CHA	2.46	128.16	123.86
39	MD	101	LMG	O8-C28-C29	2.46	119.64	111.91
39	ME	101	LMG	O8-C28-C29	2.46	119.64	111.91
39	M1	101	LMG	O8-C28-C29	2.46	119.63	111.91
40	j1	101	LMT	O5B-C5B-C4B	2.46	114.17	109.69
33	QL	201	CYC	C4D-CHA-C1A	2.46	131.75	128.81
33	YK	201	CYC	OB-C4B-NB	-2.46	119.36	125.08
43	zD	101	BCR	C1-C6-C5	-2.46	119.15	122.61
36	c1	510	CLA	CMB-C2B-C3B	2.46	129.28	124.68
43	c1	519	BCR	C4-C5-C6	-2.46	119.16	122.73
36	BD	609	CLA	C2A-C1A-CHA	2.46	128.16	123.86
38	L1	102	SQD	O48-C23-C24	2.46	119.63	111.91
36	cD	510	CLA	CAC-C3C-C2C	-2.46	123.32	127.53
36	cD	510	CLA	CHD-C1D-C2D	2.46	130.64	125.48
33	kH	201	CYC	CHB-C4A-C3A	2.46	131.23	124.90
44	C1	517	DGD	O6D-C5D-C4D	-2.46	105.23	109.69
36	CE	503	CLA	CAA-C2A-C3A	-2.46	106.04	112.78
43	i1	101	BCR	C15-C14-C13	-2.46	123.80	127.31
43	z1	101	BCR	C36-C18-C17	-2.46	119.48	122.92
40	jE	101	LMT	O5B-C5B-C4B	2.46	114.16	109.69
43	bE	616	BCR	C1-C6-C5	-2.46	119.15	122.61
43	zE	101	BCR	C1-C6-C5	-2.46	119.15	122.61
43	BE	615	BCR	C4-C5-C6	-2.46	119.16	122.73
33	Q4	201	CYC	C4A-C3A-C2A	-2.46	103.68	106.51
36	B1	609	CLA	CMB-C2B-C3B	2.46	129.28	124.68
33	V4	201	CYC	CAA-CBA-CGA	-2.46	108.31	113.60
33	kI	201	CYC	CHB-C4A-C3A	2.46	131.22	124.90
44	CD	517	DGD	O6D-C5D-C4D	-2.46	105.23	109.69
33	kA	201	CYC	CHB-C4A-C3A	2.46	131.22	124.90
38	LD	101	SQD	O48-C23-C24	2.46	119.62	111.91
37	AE	406	PL9	C40-C39-C38	-2.46	117.37	123.68
33	k8	201	CYC	CHB-C4A-C3A	2.46	131.22	124.90
33	aF	201	CYC	C4A-C3A-C2A	-2.46	103.69	106.51
33	3K	101	CYC	O2A-CGA-CBA	2.46	121.92	114.03
47	VE	201	HEM	CMA-C3A-C2A	2.46	129.57	124.94
38	LE	101	SQD	O48-C23-C24	2.46	119.61	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	k3	201	CYC	CHB-C4A-C3A	2.45	131.21	124.90
36	bE	609	CLA	C2A-C1A-CHA	2.45	128.15	123.86
33	k9	201	CYC	CHB-C4A-C3A	2.45	131.21	124.90
36	c1	508	CLA	O2D-CGD-O1D	-2.45	119.04	123.84
33	iI	202	CYC	OC-C1C-C2C	-2.45	124.22	126.17
38	LD	102	SQD	O48-C23-C24	2.45	119.60	111.91
44	CE	517	DGD	O6D-C5D-C4D	-2.45	105.24	109.69
33	hF	201	CYC	OB-C4B-NB	-2.45	119.38	125.08
36	CE	506	CLA	O2A-CGA-O1A	-2.45	117.41	123.59
40	jD	101	LMT	O5B-C5B-C4B	2.45	114.14	109.69
33	4G	201	CYC	CAA-C2A-C1A	2.45	129.34	125.01
43	zD	101	BCR	C36-C18-C17	-2.45	119.49	122.92
37	AD	406	PL9	C40-C39-C38	-2.45	117.39	123.68
43	z1	101	BCR	C3-C4-C5	-2.45	109.70	114.08
33	SB	201	CYC	C4A-C3A-C2A	-2.45	103.69	106.51
45	DE	403	PHO	O2A-CGA-O1A	-2.45	117.41	123.59
33	6G	201	CYC	CBD-CAD-C3D	-2.45	108.44	112.62
36	cD	510	CLA	CHD-C4C-C3C	2.45	128.44	124.84
33	3F	101	CYC	O2A-CGA-CBA	2.45	121.90	114.03
43	B1	615	BCR	C1-C6-C5	-2.45	119.16	122.61
39	CD	519	LMG	C8-O7-C10	-2.45	111.76	117.79
36	b1	603	CLA	O2D-CGD-O1D	-2.45	119.05	123.84
36	cE	510	CLA	CHD-C1D-C2D	2.45	130.62	125.48
33	B4	1003	CYC	CBD-CAD-C3D	-2.45	108.44	112.62
36	BE	609	CLA	CMB-C2B-C3B	2.45	129.26	124.68
45	DE	401	PHO	O2D-CGD-O1D	-2.45	119.05	123.84
33	XK	201	CYC	C1B-C2B-C3B	-2.45	105.32	107.87
33	hK	201	CYC	OB-C4B-NB	-2.45	119.39	125.08
36	cE	504	CLA	CHB-C4A-NA	2.45	127.90	124.51
33	k5	201	CYC	CHB-C4A-C3A	2.45	131.19	124.90
38	LE	102	SQD	O48-C23-C24	2.45	119.59	111.91
36	IE	101	CLA	C1B-CHB-C4A	-2.45	125.27	130.12
39	mD	101	LMG	O8-C28-C29	2.45	119.59	111.91
33	gK	201	CYC	C4D-CHA-C1A	2.45	131.73	128.81
36	cE	505	CLA	C2D-C1D-ND	-2.45	108.30	110.10
36	cE	510	CLA	CMB-C2B-C3B	2.45	129.25	124.68
36	cE	510	CLA	CAC-C3C-C2C	-2.45	123.34	127.53
43	b1	618	BCR	C33-C5-C4	2.45	118.31	113.62
33	QG	201	CYC	C4D-CHA-C1A	2.45	131.73	128.81
36	hE	101	CLA	CHC-C1C-C2C	-2.45	119.96	126.72
36	BD	609	CLA	CMB-C2B-C3B	2.45	129.25	124.68
39	CE	519	LMG	C8-O7-C10	-2.45	111.77	117.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	D1	402	PHO	O2A-CGA-O1A	-2.45	117.42	123.59
37	A1	406	PL9	C40-C39-C38	-2.44	117.41	123.68
36	bE	610	CLA	C2A-C1A-CHA	2.44	128.13	123.86
45	a1	413	PHO	O2D-CGD-O1D	-2.44	119.06	123.84
33	eF	201	CYC	C1B-NB-C4B	-2.44	107.56	110.67
33	kJ	201	CYC	CHB-C4A-C3A	2.44	131.19	124.90
43	BD	615	BCR	C1-C6-C5	-2.44	119.17	122.61
33	iJ	202	CYC	OC-C1C-C2C	-2.44	124.23	126.17
36	D1	404	CLA	CMB-C2B-C3B	2.44	129.25	124.68
42	D1	408	LHG	O8-C23-C24	2.44	119.57	111.91
45	aD	412	PHO	O2D-CGD-O1D	-2.44	119.06	123.84
45	d1	402	PHO	C1-O2A-CGA	2.44	122.85	116.44
36	AE	404	CLA	C2A-C1A-CHA	2.44	128.13	123.86
39	m1	101	LMG	O8-C28-C29	2.44	119.57	111.91
43	zE	101	BCR	C3-C4-C5	-2.44	109.72	114.08
36	c1	510	CLA	CHD-C4C-C3C	2.44	128.43	124.84
43	cE	519	BCR	C4-C5-C6	-2.44	119.19	122.73
33	QB	201	CYC	C4A-C3A-C2A	-2.44	103.70	106.51
33	bC	201	CYC	CAA-CBA-CGA	-2.44	108.35	113.60
37	aE	408	PL9	C40-C39-C38	-2.44	117.42	123.68
44	cE	516	DGD	O2G-C1B-C2B	2.44	116.76	111.50
36	B1	609	CLA	C2A-C1A-CHA	2.44	128.13	123.86
33	ZF	201	CYC	C4D-CHA-C1A	2.44	131.72	128.81
33	BI	301	CYC	CHB-C4A-C3A	2.44	131.18	124.90
36	cE	505	CLA	CHA-C1A-NA	-2.44	120.81	126.40
37	a1	409	PL9	C40-C39-C38	-2.44	117.42	123.68
33	kC	201	CYC	CHB-C4A-C3A	2.44	131.17	124.90
43	zD	101	BCR	C3-C4-C5	-2.44	109.72	114.08
43	cD	519	BCR	C4-C5-C6	-2.44	119.19	122.73
33	P4	201	CYC	CBD-CAD-C3D	-2.44	108.46	112.62
36	AD	404	CLA	CHC-C1C-NC	2.44	127.90	124.20
45	A1	412	PHO	O2D-CGD-O1D	-2.44	119.07	123.84
33	SB	201	CYC	CBB-CAB-C3B	-2.44	105.71	112.43
43	iE	102	BCR	C15-C14-C13	-2.44	123.83	127.31
36	CD	505	CLA	C1B-CHB-C4A	-2.44	125.29	130.12
36	hD	101	CLA	CHC-C1C-C2C	-2.44	119.98	126.72
42	DE	409	LHG	O8-C23-C24	2.44	119.56	111.91
36	AD	404	CLA	C2A-C1A-CHA	2.44	128.12	123.86
33	B6	301	CYC	CHB-C4A-C3A	2.44	131.17	124.90
42	DD	409	LHG	O8-C23-C24	2.44	119.56	111.91
36	HD	101	CLA	CHC-C1C-C2C	-2.44	119.98	126.72
33	b8	201	CYC	CAA-CBA-CGA	-2.44	108.36	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	a1	413	PHO	CGD-CBD-CAD	-2.44	102.84	110.73
36	BD	612	CLA	CHB-C4A-NA	2.44	127.88	124.51
36	AE	404	CLA	CHC-C1C-NC	2.44	127.90	124.20
45	aE	412	PHO	O2D-CGD-O1D	-2.44	119.08	123.84
47	VD	201	HEM	CMA-C3A-C2A	2.44	129.53	124.94
44	c1	516	DGD	O3G-C3G-C2G	-2.44	105.02	110.90
36	cD	508	CLA	O2D-CGD-O1D	-2.44	119.08	123.84
36	B1	612	CLA	CHB-C4A-NA	2.44	127.88	124.51
43	BD	615	BCR	C4-C5-C6	-2.44	119.19	122.73
33	IG	201	CYC	CBB-CAB-C3B	-2.44	105.72	112.43
36	BE	603	CLA	O2D-CGD-CBD	2.44	115.59	111.27
33	BC	301	CYC	CHB-C4A-C3A	2.43	131.16	124.90
33	wB	201	CYC	C4D-CHA-C1A	2.43	131.72	128.81
39	mE	101	LMG	O8-C28-C29	2.43	119.55	111.91
37	aD	408	PL9	C40-C39-C38	-2.43	117.43	123.68
44	cE	516	DGD	O3G-C3G-C2G	-2.43	105.03	110.90
45	DE	403	PHO	C4-C3-C5	2.43	119.36	115.27
44	cD	516	DGD	O2G-C1B-C2B	2.43	116.75	111.50
33	IL	201	CYC	CBB-CAB-C3B	-2.43	105.72	112.43
36	BE	609	CLA	C2A-C1A-CHA	2.43	128.11	123.86
33	g5	202	CYC	CHB-C4A-C3A	2.43	131.16	124.90
37	aE	408	PL9	C45-C44-C46	2.43	119.36	115.27
36	c1	503	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
36	BE	612	CLA	CHB-C4A-NA	2.43	127.87	124.51
33	XF	201	CYC	C1B-C2B-C3B	-2.43	105.33	107.87
45	DD	403	PHO	O2A-CGA-O1A	-2.43	117.46	123.59
47	vE	201	HEM	CMA-C3A-C2A	2.43	129.52	124.94
45	DE	401	PHO	O2A-CGA-O1A	-2.43	117.46	123.59
45	D1	402	PHO	C4-C3-C5	2.43	119.36	115.27
47	V1	201	HEM	CMA-C3A-C2A	2.43	129.52	124.94
33	AL	201	CYC	CAC-C3C-C2C	2.43	120.33	114.26
36	CD	503	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
37	aD	408	PL9	C45-C44-C46	2.43	119.36	115.27
36	cE	510	CLA	CHD-C4C-C3C	2.43	128.41	124.84
33	b9	201	CYC	CAA-CBA-CGA	-2.43	108.38	113.60
36	CE	503	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
40	AE	412	LMT	O5B-C5B-C4B	2.43	114.10	109.69
36	C1	503	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
33	g8	202	CYC	CHB-C4A-C3A	2.43	131.14	124.90
33	bI	201	CYC	CAA-CBA-CGA	-2.43	108.38	113.60
33	bJ	201	CYC	CAA-CBA-CGA	-2.43	108.38	113.60
33	gH	202	CYC	CHB-C4A-C3A	2.43	131.14	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	cD	505	CLA	CHA-C1A-NA	-2.43	120.84	126.40
33	C4	1002	CYC	C2C-C1C-NC	2.43	110.36	108.27
36	BD	603	CLA	O2D-CGD-CBD	2.43	115.58	111.27
36	H1	101	CLA	CHC-C1C-C2C	-2.43	120.01	126.72
36	c1	512	CLA	CHA-C1A-NA	-2.43	120.84	126.40
36	a1	406	CLA	C2D-C1D-ND	-2.42	108.32	110.10
33	PB	201	CYC	CBD-CAD-C3D	-2.42	108.48	112.62
33	4L	201	CYC	O2A-CGA-CBA	2.42	121.82	114.03
44	c1	516	DGD	O2G-C1B-C2B	2.42	116.73	111.50
36	aD	404	CLA	C1B-CHB-C4A	-2.42	125.31	130.12
33	kK	201	CYC	OC-C1C-NC	2.42	127.88	124.94
33	b2	201	CYC	CAA-CBA-CGA	-2.42	108.39	113.60
33	rB	201	CYC	CAD-C3D-C2D	-2.42	120.28	127.25
36	a1	405	CLA	C1B-CHB-C4A	-2.42	125.32	130.12
33	Z4	201	CYC	C2A-C1A-NA	2.42	113.58	110.05
47	vD	201	HEM	CMA-C3A-C2A	2.42	129.51	124.94
33	S4	201	CYC	CBB-CAB-C3B	-2.42	105.75	112.43
36	CE	504	CLA	C2A-C1A-CHA	2.42	128.10	123.86
36	CE	505	CLA	C1B-CHB-C4A	-2.42	125.32	130.12
33	gJ	202	CYC	CHB-C4A-C3A	2.42	131.13	124.90
33	r4	201	CYC	CAD-C3D-C2D	-2.42	120.28	127.25
33	B2	301	CYC	CHB-C4A-C3A	2.42	131.13	124.90
33	6L	201	CYC	CBD-CAD-C3D	-2.42	108.49	112.62
36	HE	101	CLA	CHC-C1C-C2C	-2.42	120.02	126.72
36	A1	404	CLA	C2A-C1A-CHA	2.42	128.09	123.86
36	aE	404	CLA	C1B-CHB-C4A	-2.42	125.32	130.12
36	C1	505	CLA	C1B-CHB-C4A	-2.42	125.32	130.12
33	B7	301	CYC	CHB-C4A-C3A	2.42	131.13	124.90
36	h1	101	CLA	CHC-C1C-C2C	-2.42	120.03	126.72
33	6L	201	CYC	C1A-C2A-C3A	-2.42	104.10	106.78
36	ID	101	CLA	C1B-CHB-C4A	-2.42	125.32	130.12
36	cE	508	CLA	O2D-CGD-O1D	-2.42	119.11	123.84
44	cD	516	DGD	O3G-C3G-C2G	-2.42	105.06	110.90
47	v1	201	HEM	CMA-C3A-C2A	2.42	129.50	124.94
36	b1	608	CLA	CHD-C1D-ND	-2.42	122.23	124.45
33	B3	301	CYC	CHB-C4A-C3A	2.42	131.12	124.90
33	AG	201	CYC	CAC-C3C-C2C	2.42	120.31	114.26
33	bB	101	CYC	CMD-C2D-C3D	-2.42	120.38	124.94
33	HL	201	CYC	CMC-C2C-C1C	-2.42	107.19	112.40
36	dE	405	CLA	CMB-C2B-C3B	2.42	129.20	124.68
33	b3	201	CYC	CAA-CBA-CGA	-2.42	108.40	113.60
40	A1	413	LMT	O5B-C5B-C4B	2.42	114.09	109.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	B1	615	BCR	C4-C5-C6	-2.42	119.22	122.73
36	bE	608	CLA	C2D-C1D-ND	-2.42	108.32	110.10
44	cD	516	DGD	O6E-C5E-C6E	2.42	112.45	106.44
33	HG	201	CYC	CMC-C2C-C1C	-2.42	107.19	112.40
33	w4	201	CYC	C4D-CHA-C1A	2.42	131.70	128.81
43	XE	102	BCR	C40-C30-C29	-2.42	99.24	108.91
36	DD	405	CLA	CMB-C2B-C3B	2.42	129.20	124.68
43	iD	102	BCR	C15-C14-C13	-2.42	123.86	127.31
33	b6	201	CYC	CAA-CBA-CGA	-2.42	108.40	113.60
33	bH	201	CYC	CAA-CBA-CGA	-2.42	108.40	113.60
33	BA	301	CYC	CHB-C4A-C3A	2.42	131.12	124.90
36	DE	405	CLA	C2A-C1A-CHA	2.42	128.09	123.86
33	b5	201	CYC	CAA-CBA-CGA	-2.42	108.40	113.60
33	CB	1002	CYC	C2C-C1C-NC	2.42	110.36	108.27
44	cE	516	DGD	O6E-C5E-C6E	2.42	112.44	106.44
36	bD	607	CLA	C1B-CHB-C4A	-2.42	125.33	130.12
36	B1	605	CLA	C1B-CHB-C4A	-2.42	125.33	130.12
33	gF	201	CYC	C4D-CHA-C1A	2.42	131.69	128.81
44	c1	516	DGD	O6E-C5E-C6E	2.41	112.44	106.44
33	XF	201	CYC	CHB-C1B-NB	-2.41	120.88	126.06
33	j5	201	CYC	CAA-CBA-CGA	-2.41	108.41	113.60
33	b7	201	CYC	CAA-CBA-CGA	-2.41	108.41	113.60
36	cD	504	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
33	j7	201	CYC	CAA-CBA-CGA	-2.41	108.41	113.60
36	CE	510	CLA	C3A-C2A-C1A	2.41	104.95	101.34
36	dE	405	CLA	C2A-C1A-CHA	2.41	128.08	123.86
43	bE	616	BCR	C4-C5-C6	-2.41	119.23	122.73
33	RL	201	CYC	CHB-C4A-C3A	2.41	131.10	124.90
36	b1	607	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
36	c1	504	CLA	CHA-C1A-NA	-2.41	120.87	126.40
33	B9	301	CYC	CHB-C4A-C3A	2.41	131.10	124.90
44	c1	516	DGD	O2G-C2G-C3G	2.41	117.13	108.40
33	LG	201	CYC	CAA-C2A-C1A	2.41	129.27	125.01
33	4G	201	CYC	O2A-CGA-CBA	2.41	121.77	114.03
40	AD	412	LMT	O5B-C5B-C4B	2.41	114.07	109.69
33	XK	201	CYC	CHB-C1B-NB	-2.41	120.89	126.06
43	XD	102	BCR	C40-C30-C29	-2.41	99.27	108.91
43	BE	615	BCR	C1-C6-C5	-2.41	119.22	122.61
44	cD	516	DGD	O2G-C2G-C3G	2.41	117.12	108.40
33	RG	201	CYC	CHB-C4A-C3A	2.41	131.09	124.90
38	c1	501	SQD	O48-C23-C24	2.41	119.47	111.91
38	cD	502	SQD	O48-C23-C24	2.41	119.47	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	ZE	102	BCR	C31-C1-C6	-2.41	106.39	110.30
43	hE	105	BCR	C40-C30-C29	-2.41	99.27	108.91
45	aE	412	PHO	CGD-CBD-CAD	-2.41	102.93	110.73
36	d1	405	CLA	CMB-C2B-C3B	2.41	129.18	124.68
43	hD	105	BCR	C40-C30-C29	-2.41	99.28	108.91
42	dD	409	LHG	O8-C23-C24	2.41	119.46	111.91
44	c1	516	DGD	O6D-C5D-C6D	2.41	111.53	106.67
43	X1	102	BCR	C40-C30-C29	-2.41	99.28	108.91
45	DD	403	PHO	C4-C3-C5	2.41	119.32	115.27
33	bA	201	CYC	CAA-CBA-CGA	-2.41	108.42	113.60
36	cE	505	CLA	CHA-C4D-ND	2.41	137.53	132.50
45	A1	412	PHO	O2A-CGA-O1A	-2.41	117.52	123.59
36	bE	607	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
36	dD	405	CLA	CMB-C2B-C3B	2.41	129.18	124.68
33	j2	201	CYC	CAA-CBA-CGA	-2.41	108.42	113.60
42	d1	409	LHG	O8-C23-C24	2.41	119.46	111.91
42	dE	409	LHG	O8-C23-C24	2.41	119.46	111.91
36	CD	506	CLA	CBA-CAA-C2A	2.40	120.96	113.86
33	aK	201	CYC	CMB-C2B-C1B	2.40	127.17	124.17
36	BE	605	CLA	C1B-CHB-C4A	-2.40	125.35	130.12
36	aD	405	CLA	C2D-C1D-ND	-2.40	108.33	110.10
33	b4	101	CYC	CMD-C2D-C3D	-2.40	120.41	124.94
36	BE	606	CLA	CAA-C2A-C3A	-2.40	106.19	112.78
33	MG	201	CYC	CHA-C1A-NA	-2.40	125.49	128.83
36	c1	504	CLA	CHA-C4D-ND	2.40	137.53	132.50
38	cE	502	SQD	O48-C23-C24	2.40	119.45	111.91
33	ZB	201	CYC	C2A-C1A-NA	2.40	113.54	110.05
33	P4	201	CYC	CMC-C2C-C1C	-2.40	107.22	112.40
33	j3	201	CYC	CAA-CBA-CGA	-2.40	108.43	113.60
33	aB	201	CYC	CAA-CBA-CGA	-2.40	108.43	113.60
33	jH	201	CYC	CAA-CBA-CGA	-2.40	108.43	113.60
36	BD	605	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
36	b1	610	CLA	CMB-C2B-C3B	2.40	129.17	124.68
45	aD	412	PHO	O2A-CGA-O1A	-2.40	117.53	123.59
33	6G	201	CYC	CHB-C1B-NB	-2.40	120.90	126.06
33	aB	201	CYC	CHB-C4A-C3A	2.40	131.07	124.90
36	CD	504	CLA	C2A-C1A-CHA	2.40	128.06	123.86
33	aF	201	CYC	CMB-C2B-C1B	2.40	127.16	124.17
44	cE	516	DGD	O2G-C2G-C3G	2.40	117.09	108.40
36	I1	101	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
36	bD	610	CLA	CMB-C2B-C3B	2.40	129.17	124.68
33	j9	201	CYC	CAA-CBA-CGA	-2.40	108.44	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	kF	201	CYC	OC-C1C-NC	2.40	127.85	124.94
43	h1	105	BCR	C40-C30-C29	-2.40	99.31	108.91
43	CD	521	BCR	C31-C1-C6	-2.40	106.41	110.30
33	j6	201	CYC	CAA-CBA-CGA	-2.40	108.44	113.60
36	C1	506	CLA	CBA-CAA-C2A	2.40	120.94	113.86
33	jC	201	CYC	CAA-CBA-CGA	-2.40	108.44	113.60
33	jJ	201	CYC	CAA-CBA-CGA	-2.40	108.44	113.60
36	C1	511	CLA	C1D-ND-C4D	2.40	108.04	106.33
36	dD	405	CLA	C2A-C1A-CHA	2.40	128.05	123.86
33	a4	201	CYC	CAA-CBA-CGA	-2.40	108.45	113.60
33	3K	101	CYC	C4A-C3A-C2A	-2.40	103.76	106.51
33	PB	201	CYC	CMC-C2C-C1C	-2.40	107.24	112.40
33	jA	201	CYC	CAA-CBA-CGA	-2.40	108.45	113.60
33	a4	201	CYC	CHB-C4A-C3A	2.40	131.06	124.90
36	C1	504	CLA	C2A-C1A-CHA	2.40	128.05	123.86
36	bD	608	CLA	CHD-C1D-ND	-2.40	122.25	124.45
36	cD	512	CLA	CHA-C1A-NA	-2.39	120.92	126.40
36	B1	603	CLA	O2D-CGD-CBD	2.39	115.52	111.27
33	ML	201	CYC	CHA-C1A-NA	-2.39	125.51	128.83
33	jI	201	CYC	CAA-CBA-CGA	-2.39	108.45	113.60
36	b1	608	CLA	C2D-C1D-ND	-2.39	108.34	110.10
33	j8	201	CYC	CAA-CBA-CGA	-2.39	108.45	113.60
45	DE	401	PHO	C4A-C3A-C2A	-2.39	100.56	102.84
43	b1	616	BCR	C4-C5-C6	-2.39	119.26	122.73
36	cE	510	CLA	O2D-CGD-O1D	-2.39	119.16	123.84
44	cD	516	DGD	O6D-C5D-C6D	2.39	111.49	106.67
36	B1	607	CLA	O2A-CGA-O1A	-2.39	117.56	123.59
36	CE	506	CLA	CBA-CAA-C2A	2.39	120.92	113.86
36	C1	504	CLA	CHC-C1C-NC	2.39	127.83	124.20
33	LL	201	CYC	CAA-C2A-C1A	2.39	129.23	125.01
36	bE	610	CLA	CMB-C2B-C3B	2.39	129.15	124.68
43	kE	102	BCR	C15-C16-C17	-2.39	118.58	123.47
36	B1	608	CLA	O2D-CGD-O1D	-2.39	119.17	123.84
33	d5	201	CYC	CAA-CBA-CGA	-2.39	108.47	113.60
36	DD	405	CLA	C2A-C1A-CHA	2.39	128.03	123.86
33	d3	201	CYC	CAA-CBA-CGA	-2.39	108.47	113.60
43	cE	515	BCR	C16-C15-C14	-2.39	118.59	123.47
36	CD	503	CLA	O2D-CGD-O1D	-2.39	119.17	123.84
33	3F	101	CYC	C4A-C3A-C2A	-2.39	103.77	106.51
36	DE	405	CLA	CMB-C2B-C3B	2.39	129.14	124.68
43	Z1	102	BCR	C31-C1-C6	-2.38	106.43	110.30
36	BD	606	CLA	CAA-C2A-C3A	-2.38	106.25	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	CD	510	CLA	C3A-C2A-C1A	2.38	104.91	101.34
47	v1	201	HEM	CAD-C3D-C4D	2.38	128.82	124.66
36	CD	504	CLA	CHC-C1C-NC	2.38	127.82	124.20
36	cD	505	CLA	CHA-C4D-ND	2.38	137.48	132.50
33	6L	201	CYC	CHB-C1B-NB	-2.38	120.94	126.06
33	nF	201	CYC	CHB-C1B-NB	-2.38	120.94	126.06
36	cE	504	CLA	C1B-CHB-C4A	-2.38	125.40	130.12
33	dC	201	CYC	CAA-CBA-CGA	-2.38	108.48	113.60
43	k1	102	BCR	C31-C1-C6	-2.38	106.44	110.30
36	cD	510	CLA	O2D-CGD-O1D	-2.38	119.18	123.84
36	D1	404	CLA	C2A-C1A-CHA	2.38	128.02	123.86
43	Z1	102	BCR	C15-C16-C17	-2.38	118.60	123.47
44	cE	516	DGD	O6D-C5D-C6D	2.38	111.47	106.67
33	dH	201	CYC	CAA-CBA-CGA	-2.38	108.48	113.60
38	dE	414	SQD	O6-C44-C45	-2.38	105.16	110.90
33	ZF	201	CYC	CMD-C2D-C3D	-2.38	120.45	124.94
38	dD	414	SQD	O6-C44-C45	-2.38	105.16	110.90
33	PB	201	CYC	CMB-C2B-C1B	2.38	127.14	124.17
33	y4	201	CYC	C4D-CHA-C1A	2.38	131.65	128.81
43	bD	616	BCR	C4-C5-C6	-2.38	119.28	122.73
33	6G	201	CYC	C1A-C2A-C3A	-2.38	104.15	106.78
43	cD	515	BCR	C16-C15-C14	-2.38	118.60	123.47
36	B1	606	CLA	CAA-C2A-C3A	-2.38	106.27	112.78
33	d8	201	CYC	CAA-CBA-CGA	-2.38	108.49	113.60
36	c1	510	CLA	O2D-CGD-O1D	-2.38	119.19	123.84
36	bE	608	CLA	CAA-C2A-C3A	-2.38	106.27	112.78
33	dI	201	CYC	CAA-CBA-CGA	-2.38	108.49	113.60
38	d1	414	SQD	O6-C44-C45	-2.38	105.16	110.90
39	CD	519	LMG	C1-O6-C5	2.38	118.35	113.69
36	BD	609	CLA	C1B-CHB-C4A	-2.38	125.41	130.12
33	dJ	201	CYC	CAA-CBA-CGA	-2.38	108.49	113.60
33	y4	201	CYC	CMB-C2B-C1B	2.38	127.13	124.17
43	CD	521	BCR	C15-C16-C17	-2.38	118.61	123.47
36	CE	503	CLA	O2D-CGD-O1D	-2.38	119.19	123.84
33	WG	201	CYC	CHB-C1B-C2B	-2.38	122.24	126.95
45	a1	413	PHO	C1A-C2A-C3A	2.38	105.10	102.84
40	iD	103	LMT	C4'-C3'-C2'	2.37	114.97	110.82
43	kD	102	BCR	C31-C1-C6	-2.37	106.45	110.30
33	fC	201	CYC	CAA-CBA-CGA	-2.37	108.49	113.60
36	C1	509	CLA	C1B-CHB-C4A	-2.37	125.41	130.12
36	bD	610	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
33	d9	201	CYC	CAA-CBA-CGA	-2.37	108.50	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B1	609	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
47	V1	201	HEM	CAD-C3D-C4D	2.37	128.81	124.66
43	kD	102	BCR	C15-C16-C17	-2.37	118.61	123.47
33	2G	101	CYC	CHA-C1A-NA	-2.37	125.53	128.83
33	lJ	201	CYC	CAA-CBA-CGA	-2.37	108.50	113.60
36	d1	405	CLA	C2A-C1A-CHA	2.37	128.01	123.86
36	C1	510	CLA	C3A-C2A-C1A	2.37	104.89	101.34
33	d2	201	CYC	CAA-CBA-CGA	-2.37	108.50	113.60
40	iE	103	LMT	C4'-C3'-C2'	2.37	114.96	110.82
36	bE	610	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
33	wB	201	CYC	CMC-C2C-C1C	-2.37	107.29	112.40
33	d6	201	CYC	CAA-CBA-CGA	-2.37	108.50	113.60
36	b1	610	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
33	aK	201	CYC	C2C-C1C-NC	2.37	110.32	108.27
36	bE	605	CLA	O2D-CGD-CBD	2.37	115.48	111.27
43	ZE	102	BCR	C15-C16-C17	-2.37	118.62	123.47
33	kK	201	CYC	CAA-C2A-C1A	2.37	129.20	125.01
38	DE	414	SQD	O6-C44-C45	-2.37	105.18	110.90
47	vD	201	HEM	CAD-C3D-C4D	2.37	128.80	124.66
33	dA	201	CYC	CAA-CBA-CGA	-2.37	108.51	113.60
33	lC	201	CYC	CAA-CBA-CGA	-2.37	108.51	113.60
36	C1	503	CLA	O2D-CGD-O1D	-2.37	119.21	123.84
36	bD	608	CLA	CAA-C2A-C3A	-2.37	106.30	112.78
33	kF	201	CYC	CAA-C2A-C1A	2.37	129.19	125.01
36	BD	608	CLA	O2D-CGD-O1D	-2.37	119.21	123.84
36	aE	405	CLA	C2D-C1D-ND	-2.37	108.36	110.10
33	yB	201	CYC	C4D-CHA-C1A	2.37	131.64	128.81
36	CE	504	CLA	CHC-C1C-NC	2.37	127.79	124.20
47	fE	101	HEM	C4A-C3A-C2A	2.37	108.64	107.00
36	bD	605	CLA	O2D-CGD-CBD	2.37	115.47	111.27
36	cE	506	CLA	C3C-C4C-NC	-2.37	107.92	110.57
33	P4	201	CYC	CMB-C2B-C1B	2.37	127.12	124.17
33	KF	201	CYC	C1B-CHB-C4A	2.37	133.86	128.08
36	CD	509	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
36	cE	512	CLA	CHA-C1A-NA	-2.36	120.98	126.40
39	CE	519	LMG	C1-O6-C5	2.36	118.33	113.69
37	AE	406	PL9	C20-C19-C21	2.36	119.25	115.27
43	k1	102	BCR	C15-C16-C17	-2.36	118.63	123.47
33	lI	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
36	BD	607	CLA	O2A-CGA-O1A	-2.36	117.62	123.59
36	b1	609	CLA	O2A-CGA-O1A	-2.36	117.62	123.59
38	DD	414	SQD	O6-C44-C45	-2.36	105.19	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	f3	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
33	f9	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
43	c1	515	BCR	C16-C15-C14	-2.36	118.63	123.47
36	BE	608	CLA	O2D-CGD-O1D	-2.36	119.22	123.84
33	d7	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
33	lA	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
33	fJ	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
33	sB	201	CYC	CMD-C2D-C3D	-2.36	120.49	124.94
33	fH	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
36	CE	505	CLA	O1D-CGD-CBD	2.36	129.32	124.48
33	l8	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
36	BE	609	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
33	fF	201	CYC	OB-C4B-NB	-2.36	119.59	125.08
44	cD	517	DGD	O1G-C1A-O1A	-2.36	117.63	123.59
33	fI	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
39	C1	519	LMG	C1-O6-C5	2.36	118.32	113.69
36	CE	509	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
33	f5	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
33	l5	201	CYC	CAA-CBA-CGA	-2.36	108.52	113.60
33	fK	201	CYC	OB-C4B-NB	-2.36	119.59	125.08
36	bD	606	CLA	C2D-C1D-ND	-2.36	108.36	110.10
33	nK	201	CYC	CHB-C1B-NB	-2.36	120.99	126.06
36	BE	607	CLA	O2A-CGA-O1A	-2.36	117.64	123.59
33	KK	201	CYC	C1B-CHB-C4A	2.36	133.84	128.08
33	WL	201	CYC	CHB-C1B-C2B	-2.36	122.28	126.95
36	b1	605	CLA	O2D-CGD-CBD	2.36	115.46	111.27
36	bE	609	CLA	O2A-CGA-O1A	-2.36	117.64	123.59
36	bE	608	CLA	CHD-C1D-ND	-2.36	122.29	124.45
33	f2	201	CYC	CAA-CBA-CGA	-2.36	108.53	113.60
40	i1	102	LMT	C4'-C3'-C2'	2.36	114.94	110.82
33	s4	201	CYC	CMD-C2D-C3D	-2.36	120.50	124.94
38	cD	502	SQD	O9-S-C6	2.36	109.74	106.94
33	l2	201	CYC	CAA-CBA-CGA	-2.36	108.53	113.60
33	2L	101	CYC	CHA-C1A-NA	-2.36	125.56	128.83
38	c1	501	SQD	O9-S-C6	2.36	109.74	106.94
33	lH	201	CYC	CAA-CBA-CGA	-2.36	108.53	113.60
36	CD	505	CLA	CHA-C1A-NA	-2.36	121.00	126.40
36	CE	505	CLA	CHA-C1A-NA	-2.36	121.00	126.40
33	ZK	201	CYC	CMD-C2D-C3D	-2.36	120.50	124.94
36	cE	508	CLA	C4-C3-C5	2.35	119.23	115.27
33	l6	201	CYC	CAA-CBA-CGA	-2.35	108.54	113.60
36	C1	505	CLA	CHA-C1A-NA	-2.35	121.01	126.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	6L	201	CYC	O2A-CGA-CBA	2.35	121.59	114.03
44	cE	517	DGD	O1G-C1A-O1A	-2.35	117.65	123.59
36	CD	505	CLA	O1D-CGD-CBD	2.35	129.30	124.48
38	hD	103	SQD	C25-C24-C23	-2.35	105.06	113.62
36	BE	613	CLA	C2D-C1D-ND	-2.35	108.37	110.10
36	CE	504	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
43	kE	102	BCR	C31-C1-C6	-2.35	106.48	110.30
38	D1	413	SQD	O6-C44-C45	-2.35	105.22	110.90
36	CD	504	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
33	fA	201	CYC	CAA-CBA-CGA	-2.35	108.54	113.60
38	h1	103	SQD	C25-C24-C23	-2.35	105.07	113.62
36	B1	606	CLA	C2D-C1D-ND	-2.35	108.37	110.10
47	fD	101	HEM	C4A-C3A-C2A	2.35	108.63	107.00
36	BD	606	CLA	CHD-C1D-ND	-2.35	122.29	124.45
33	MG	201	CYC	CAB-C3B-C2B	2.35	131.55	127.53
33	l7	201	CYC	CAA-CBA-CGA	-2.35	108.55	113.60
44	CE	517	DGD	O2G-C2G-C3G	2.35	116.91	108.40
36	B1	612	CLA	C6-C7-C8	-2.35	108.33	115.92
39	D1	410	LMG	C8-O7-C10	-2.35	112.01	117.79
36	b1	608	CLA	CAA-C2A-C3A	-2.35	106.35	112.78
33	6G	201	CYC	O2A-CGA-CBA	2.35	121.57	114.03
36	bD	608	CLA	C2D-C1D-ND	-2.35	108.37	110.10
36	cD	508	CLA	C4-C3-C5	2.35	119.22	115.27
39	dE	411	LMG	C8-O7-C10	-2.35	112.01	117.79
38	hE	103	SQD	C25-C24-C23	-2.35	105.08	113.62
36	cE	506	CLA	CHD-C1D-ND	-2.35	122.30	124.45
36	dD	403	CLA	O2D-CGD-O1D	-2.35	119.25	123.84
33	WG	201	CYC	C4A-C3A-C2A	-2.35	103.81	106.51
33	l9	201	CYC	CAA-CBA-CGA	-2.35	108.55	113.60
33	w4	201	CYC	CMC-C2C-C1C	-2.35	107.34	112.40
44	CD	517	DGD	O2G-C2G-C3G	2.35	116.90	108.40
33	f6	201	CYC	CAA-CBA-CGA	-2.35	108.55	113.60
36	bE	606	CLA	C2D-C1D-ND	-2.35	108.38	110.10
33	PG	201	CYC	CAC-C3C-C2C	2.35	120.12	114.26
47	VE	201	HEM	CAD-C3D-C4D	2.35	128.76	124.66
36	BE	612	CLA	C6-C7-C8	-2.35	108.34	115.92
39	DD	411	LMG	C8-O7-C10	-2.34	112.02	117.79
33	f8	201	CYC	CAA-CBA-CGA	-2.34	108.56	113.60
33	NK	101	CYC	CHA-C1A-NA	-2.34	125.57	128.83
33	LK	201	CYC	CBD-CAD-C3D	-2.34	108.62	112.62
33	f7	201	CYC	CAA-CBA-CGA	-2.34	108.56	113.60
36	C1	504	CLA	C1B-CHB-C4A	-2.34	125.47	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	DE	408	PL9	C42-C43-C44	-2.34	122.02	127.66
36	HE	101	CLA	CHB-C4A-NA	2.34	127.75	124.51
33	TB	201	CYC	C1A-C2A-C3A	-2.34	104.19	106.78
42	aD	411	LHG	O4-P-O5	2.34	123.83	112.24
36	BD	612	CLA	C6-C7-C8	-2.34	108.34	115.92
47	VD	201	HEM	CAD-C3D-C4D	2.34	128.75	124.66
33	aF	201	CYC	C2C-C1C-NC	2.34	110.29	108.27
38	cE	502	SQD	O9-S-C6	2.34	109.72	106.94
37	A1	406	PL9	C20-C19-C21	2.34	119.21	115.27
36	C1	514	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
33	l3	201	CYC	CAA-CBA-CGA	-2.34	108.56	113.60
33	hA	201	CYC	CAA-CBA-CGA	-2.34	108.56	113.60
36	C1	505	CLA	O1D-CGD-CBD	2.34	129.28	124.48
33	RG	201	CYC	OB-C4B-NB	-2.34	119.64	125.08
44	C1	517	DGD	O2G-C2G-C3G	2.34	116.88	108.40
36	BD	614	CLA	CHA-C1A-NA	-2.34	121.04	126.40
33	NF	101	CYC	CHA-C1A-NA	-2.34	125.58	128.83
36	c1	508	CLA	C4-C3-C5	2.34	119.21	115.27
33	LF	201	CYC	C2A-C1A-NA	2.34	113.45	110.05
33	v4	201	CYC	CHB-C4A-NA	-2.34	120.04	124.93
33	PL	201	CYC	CMC-C2C-C1C	-2.34	107.36	112.40
33	hI	201	CYC	CAA-CBA-CGA	-2.34	108.57	113.60
36	dE	403	CLA	O2D-CGD-O1D	-2.34	119.26	123.84
36	iD	101	CLA	C2D-C1D-ND	-2.34	108.38	110.10
39	dD	411	LMG	C8-O7-C10	-2.34	112.03	117.79
37	AD	406	PL9	C20-C19-C21	2.34	119.21	115.27
39	DE	411	LMG	C8-O7-C10	-2.34	112.03	117.79
33	vB	201	CYC	CHB-C4A-NA	-2.34	120.04	124.93
33	BB	1004	CYC	CAC-C3C-C4C	-2.34	106.67	112.67
36	bD	609	CLA	O2A-CGA-O1A	-2.34	117.69	123.59
47	vE	201	HEM	CAD-C3D-C4D	2.34	128.74	124.66
36	C1	509	CLA	O2A-CGA-O1A	-2.34	117.69	123.59
42	a1	412	LHG	O4-P-O5	2.34	123.80	112.24
36	bD	613	CLA	C6-C7-C8	-2.34	108.36	115.92
44	CD	517	DGD	C2G-O2G-C1B	2.34	123.55	117.79
33	WB	201	CYC	CAA-CBA-CGA	-2.34	108.57	113.60
37	AD	406	PL9	C45-C44-C46	2.34	119.20	115.27
33	ZF	201	CYC	OC-C1C-C2C	-2.34	124.31	126.17
36	HD	101	CLA	CHB-C4A-NA	2.34	127.74	124.51
42	aE	411	LHG	O4-P-O5	2.34	123.79	112.24
36	CE	509	CLA	O2A-CGA-O1A	-2.34	117.70	123.59
36	CE	511	CLA	O2A-CGA-O1A	-2.34	117.70	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	HE	101	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
36	d1	403	CLA	O2D-CGD-O1D	-2.34	119.27	123.84
33	LF	201	CYC	CBD-CAD-C3D	-2.34	108.63	112.62
36	HD	101	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
36	BE	606	CLA	CHD-C1D-ND	-2.34	122.31	124.45
44	C1	517	DGD	C2G-O2G-C1B	2.34	123.54	117.79
33	T4	201	CYC	C1A-C2A-C3A	-2.33	104.20	106.78
33	h7	201	CYC	CAA-CBA-CGA	-2.33	108.58	113.60
36	CD	511	CLA	O2A-CGA-O1A	-2.33	117.70	123.59
36	b1	613	CLA	C6-C7-C8	-2.33	108.37	115.92
33	ML	201	CYC	CAB-C3B-C2B	2.33	131.52	127.53
36	cD	506	CLA	C3C-C4C-NC	-2.33	107.95	110.57
33	WL	201	CYC	C4A-C3A-C2A	-2.33	103.83	106.51
36	bE	613	CLA	C6-C7-C8	-2.33	108.38	115.92
33	h5	201	CYC	CAA-CBA-CGA	-2.33	108.58	113.60
33	LK	201	CYC	C2A-C1A-NA	2.33	113.44	110.05
37	DE	408	PL9	C51-C49-C50	2.33	119.75	114.60
33	h8	201	CYC	CAA-CBA-CGA	-2.33	108.59	113.60
37	DD	408	PL9	C42-C43-C44	-2.33	122.05	127.66
36	dD	405	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
44	c1	517	DGD	O1G-C1A-O1A	-2.33	117.71	123.59
37	AE	406	PL9	C45-C44-C46	2.33	119.19	115.27
40	bE	620	LMT	C4'-C3'-C2'	2.33	114.89	110.82
47	f1	101	HEM	CHD-C1D-C2D	-2.33	121.34	124.98
33	oB	201	CYC	CAC-C3C-C2C	2.33	120.08	114.26
33	h6	201	CYC	CAA-CBA-CGA	-2.33	108.59	113.60
37	A1	406	PL9	C45-C44-C46	2.33	119.19	115.27
33	r4	201	CYC	CMC-C2C-C1C	-2.33	107.38	112.40
33	kF	201	CYC	CMC-C2C-C1C	-2.33	107.38	112.40
33	kK	201	CYC	CMC-C2C-C1C	-2.33	107.38	112.40
33	yB	201	CYC	CMB-C2B-C1B	2.33	127.07	124.17
47	EE	101	HEM	CHD-C1D-C2D	-2.33	121.34	124.98
33	RL	201	CYC	CBD-CAD-C3D	-2.33	108.65	112.62
36	CD	509	CLA	O2A-CGA-O1A	-2.33	117.72	123.59
43	hD	105	BCR	C21-C20-C19	-2.33	115.95	123.22
33	PG	201	CYC	CMC-C2C-C1C	-2.33	107.39	112.40
33	B4	1004	CYC	CAC-C3C-C4C	-2.33	106.70	112.67
33	PL	201	CYC	CAC-C3C-C2C	2.33	120.07	114.26
36	cD	512	CLA	C11-C12-C13	-2.33	108.40	115.92
33	hJ	201	CYC	CAA-CBA-CGA	-2.33	108.60	113.60
36	cD	508	CLA	CHA-C1A-NA	-2.33	121.07	126.40
36	CD	511	CLA	C1D-ND-C4D	2.33	107.99	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	JK	201	CYC	CHB-C4A-C3A	-2.32	118.92	124.90
39	d1	411	LMG	C8-O7-C10	-2.32	112.07	117.79
36	B1	606	CLA	CHD-C1D-ND	-2.32	122.32	124.45
33	4L	201	CYC	CMC-C2C-C1C	-2.32	107.39	112.40
43	z1	101	BCR	C1-C6-C7	2.32	122.35	115.78
33	NK	101	CYC	C2A-C1A-NA	2.32	113.43	110.05
33	hH	201	CYC	CAA-CBA-CGA	-2.32	108.60	113.60
43	zE	101	BCR	C1-C6-C7	2.32	122.35	115.78
33	h2	201	CYC	CAA-CBA-CGA	-2.32	108.60	113.60
47	ED	101	HEM	CHD-C1D-C2D	-2.32	121.35	124.98
33	PB	201	CYC	C1B-CHB-C4A	2.32	133.76	128.08
36	C1	511	CLA	O2A-CGA-O1A	-2.32	117.73	123.59
36	B1	614	CLA	CHA-C1A-NA	-2.32	121.08	126.40
43	hE	105	BCR	C21-C20-C19	-2.32	115.97	123.22
33	W4	201	CYC	CAA-CBA-CGA	-2.32	108.61	113.60
43	zD	101	BCR	C1-C6-C7	2.32	122.35	115.78
33	JF	201	CYC	CHB-C4A-C3A	-2.32	118.93	124.90
33	RL	201	CYC	OB-C4B-NB	-2.32	119.68	125.08
43	ZE	101	BCR	C1-C6-C7	2.32	122.34	115.78
33	yB	201	CYC	CHB-C4A-C3A	2.32	130.87	124.90
33	oB	201	CYC	OC-C1C-C2C	-2.32	124.33	126.17
33	o4	201	CYC	CAC-C3C-C2C	2.32	120.05	114.26
40	b1	620	LMT	C4'-C3'-C2'	2.32	114.87	110.82
43	DD	407	BCR	C37-C22-C23	2.32	121.73	118.08
36	b1	615	CLA	CHA-C1A-NA	-2.32	121.09	126.40
36	BD	604	CLA	C2D-C1D-ND	-2.32	108.39	110.10
37	d1	408	PL9	C42-C43-C44	-2.32	122.08	127.66
36	CE	511	CLA	C1D-ND-C4D	2.32	107.98	106.33
36	B1	611	CLA	O2D-CGD-O1D	-2.32	119.31	123.84
33	RG	201	CYC	CHB-C1B-NB	-2.32	121.08	126.06
36	cE	508	CLA	CHA-C1A-NA	-2.32	121.09	126.40
36	b1	606	CLA	C2D-C1D-ND	-2.32	108.40	110.10
33	NG	201	CYC	CAB-C3B-C2B	2.32	131.49	127.53
36	c1	505	CLA	O2A-CGA-O1A	-2.32	117.74	123.59
36	DE	405	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
33	VG	201	CYC	C2A-C1A-NA	2.32	113.42	110.05
33	C4	1001	CYC	C2A-C1A-NA	2.32	113.42	110.05
47	E1	101	HEM	CHD-C1D-C2D	-2.32	121.36	124.98
43	c1	515	BCR	C11-C12-C13	-2.32	119.91	126.42
36	cE	506	CLA	CHA-C1A-NA	-2.32	121.09	126.40
33	RL	201	CYC	CHB-C1B-NB	-2.32	121.08	126.06
36	d1	405	CLA	C1B-CHB-C4A	-2.32	125.53	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	bD	615	CLA	CHA-C1A-NA	-2.32	121.09	126.40
33	CB	1001	CYC	C2A-C1A-NA	2.32	113.42	110.05
43	DE	407	BCR	C37-C22-C23	2.32	121.73	118.08
47	fD	101	HEM	CHD-C1D-C2D	-2.32	121.36	124.98
36	CD	514	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
36	D1	404	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
43	Z1	101	BCR	C1-C6-C7	2.32	122.33	115.78
43	h1	105	BCR	C21-C20-C19	-2.32	115.99	123.22
43	D1	406	BCR	C37-C22-C23	2.32	121.72	118.08
43	ZD	101	BCR	C1-C6-C7	2.32	122.33	115.78
36	bD	614	CLA	C2D-C1D-ND	-2.31	108.40	110.10
36	C1	512	CLA	O2D-CGD-O1D	-2.31	119.31	123.84
36	DD	405	CLA	C1B-CHB-C4A	-2.31	125.53	130.12
38	hE	103	SQD	O5-C5-C4	2.31	113.89	109.69
33	h3	201	CYC	CAA-CBA-CGA	-2.31	108.62	113.60
33	hC	201	CYC	CAA-CBA-CGA	-2.31	108.62	113.60
44	CE	517	DGD	C2G-O2G-C1B	2.31	123.49	117.79
38	hD	103	SQD	O5-C5-C4	2.31	113.89	109.69
33	4L	201	CYC	C1A-NA-C4A	-2.31	102.15	106.51
37	DD	408	PL9	C51-C49-C50	2.31	119.71	114.60
36	CE	507	CLA	O2D-CGD-O1D	-2.31	119.32	123.84
36	B1	604	CLA	C2D-C1D-ND	-2.31	108.40	110.10
36	aE	404	CLA	CAC-C3C-C4C	2.31	127.81	124.81
33	NF	101	CYC	C2A-C1A-NA	2.31	113.41	110.05
36	CD	507	CLA	O2D-CGD-O1D	-2.31	119.32	123.84
36	c1	506	CLA	O2A-CGA-O1A	-2.31	117.76	123.59
36	dE	405	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
36	CE	511	CLA	CHD-C1D-ND	-2.31	122.33	124.45
33	y4	201	CYC	CHB-C4A-C3A	2.31	130.84	124.90
33	h9	201	CYC	CAA-CBA-CGA	-2.31	108.63	113.60
37	dD	408	PL9	C42-C43-C44	-2.31	122.10	127.66
33	SB	201	CYC	CHB-C4A-C3A	2.31	130.84	124.90
44	JD	101	DGD	O6D-C5D-C6D	2.31	111.33	106.67
33	mF	201	CYC	C2A-C1A-NA	2.31	113.41	110.05
40	bD	620	LMT	C4'-C3'-C2'	2.31	114.86	110.82
36	AD	405	CLA	C2D-C1D-ND	-2.31	108.40	110.10
37	D1	407	PL9	C42-C43-C44	-2.31	122.10	127.66
33	rB	201	CYC	CMC-C2C-C1C	-2.31	107.42	112.40
36	CE	514	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
36	cD	506	CLA	O2A-CGA-O1A	-2.31	117.76	123.59
36	c1	505	CLA	CHA-C1A-NA	-2.31	121.11	126.40
43	C1	516	BCR	C29-C30-C25	2.31	114.03	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	cD	506	CLA	CHA-C1A-NA	-2.31	121.11	126.40
36	BE	614	CLA	CHA-C1A-NA	-2.31	121.11	126.40
47	EE	101	HEM	C4A-C3A-C2A	2.31	108.60	107.00
36	c1	508	CLA	CHA-C1A-NA	-2.31	121.11	126.40
36	c1	512	CLA	C11-C12-C13	-2.31	108.46	115.92
33	P4	201	CYC	C1B-CHB-C4A	2.31	133.72	128.08
36	CE	503	CLA	C2A-C1A-CHA	2.31	127.89	123.86
36	cE	512	CLA	C11-C12-C13	-2.31	108.46	115.92
33	RG	201	CYC	CBD-CAD-C3D	-2.31	108.69	112.62
36	BE	604	CLA	C2D-C1D-ND	-2.31	108.41	110.10
33	o4	201	CYC	OC-C1C-C2C	-2.31	124.34	126.17
36	CD	515	CLA	C2A-C1A-CHA	2.30	127.89	123.86
33	4G	201	CYC	CMC-C2C-C1C	-2.30	107.44	112.40
36	cD	506	CLA	CHD-C1D-ND	-2.30	122.34	124.45
33	SB	201	CYC	CMB-C2B-C1B	2.30	127.04	124.17
37	D1	407	PL9	C51-C49-C50	2.30	119.69	114.60
36	c1	505	CLA	C3C-C4C-NC	-2.30	107.99	110.57
33	h3	201	CYC	CHB-C4A-C3A	2.30	130.82	124.90
38	h1	103	SQD	O5-C5-C4	2.30	113.88	109.69
36	cE	512	CLA	CAA-C2A-C3A	-2.30	106.47	112.78
36	B1	604	CLA	C1B-CHB-C4A	-2.30	125.55	130.12
44	JE	101	DGD	O6D-C5D-C6D	2.30	111.31	106.67
33	4G	201	CYC	C1A-NA-C4A	-2.30	102.17	106.51
36	cD	512	CLA	CAA-C2A-C3A	-2.30	106.47	112.78
33	NK	101	CYC	C2C-C1C-NC	2.30	110.26	108.27
33	VL	201	CYC	C2A-C1A-NA	2.30	113.40	110.05
36	BE	604	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
33	V4	201	CYC	CHB-C1B-C2B	-2.30	122.39	126.95
40	dD	412	LMT	O1'-C1'-C2'	2.30	111.90	108.30
33	NL	201	CYC	CAB-C3B-C2B	2.30	131.47	127.53
36	H1	101	CLA	CHB-C4A-NA	2.30	127.69	124.51
36	iD	101	CLA	O2A-CGA-O1A	-2.30	117.78	123.59
33	VB	201	CYC	CHB-C1B-C2B	-2.30	122.39	126.95
36	C1	515	CLA	C2A-C1A-CHA	2.30	127.88	123.86
36	AE	405	CLA	C2D-C1D-ND	-2.30	108.41	110.10
36	C1	507	CLA	O2A-CGA-O1A	-2.30	117.79	123.59
43	i1	101	BCR	C11-C10-C9	-2.30	124.03	127.31
40	D1	411	LMT	O1'-C1'-C2'	2.30	111.89	108.30
44	J1	101	DGD	O6D-C5D-C6D	2.30	111.31	106.67
36	cE	506	CLA	O2A-CGA-O1A	-2.30	117.79	123.59
43	dD	407	BCR	C37-C22-C23	2.30	121.70	118.08
36	hD	101	CLA	C1B-CHB-C4A	-2.30	125.56	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	hE	101	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
44	c1	518	DGD	C1E-O6E-C5E	2.30	118.20	113.69
36	BE	611	CLA	O2D-CGD-O1D	-2.30	119.34	123.84
47	f1	101	HEM	C4A-C3A-C2A	2.30	108.59	107.00
43	iE	102	BCR	C11-C10-C9	-2.30	124.03	127.31
36	CE	512	CLA	O2D-CGD-O1D	-2.30	119.34	123.84
33	NF	101	CYC	C2C-C1C-NC	2.30	110.25	108.27
36	BD	604	CLA	C1B-CHB-C4A	-2.30	125.57	130.12
36	BD	611	CLA	O2D-CGD-O1D	-2.30	119.35	123.84
33	SB	201	CYC	CHB-C1B-C2B	-2.30	122.40	126.95
43	cE	519	BCR	C15-C16-C17	-2.30	118.77	123.47
43	CE	516	BCR	C29-C30-C25	2.30	114.02	110.48
36	h1	101	CLA	C1B-CHB-C4A	-2.30	125.57	130.12
36	bE	606	CLA	C1B-CHB-C4A	-2.30	125.57	130.12
36	cE	511	CLA	C1B-CHB-C4A	-2.30	125.57	130.12
36	A1	405	CLA	C2D-C1D-ND	-2.30	108.41	110.10
43	X1	102	BCR	C21-C20-C19	-2.30	116.05	123.22
33	ML	201	CYC	CMD-C2D-C3D	-2.30	120.61	124.94
45	DD	401	PHO	CGD-CBD-CAD	-2.30	103.30	110.73
36	c1	512	CLA	CAA-C2A-C3A	-2.30	106.49	112.78
36	CE	508	CLA	C3D-C2D-C1D	-2.30	102.70	105.83
36	C1	508	CLA	C3D-C2D-C1D	-2.30	102.70	105.83
47	fE	101	HEM	CHD-C1D-C2D	-2.29	121.39	124.98
37	dE	408	PL9	C51-C49-C50	2.29	119.67	114.60
36	C1	507	CLA	O2D-CGD-O1D	-2.29	119.35	123.84
36	bE	615	CLA	CHA-C1A-NA	-2.29	121.14	126.40
43	XE	102	BCR	C21-C20-C19	-2.29	116.06	123.22
40	DD	413	LMT	C3'-C4'-C5'	-2.29	106.15	110.24
36	b1	614	CLA	C2D-C1D-ND	-2.29	108.41	110.10
36	H1	101	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
40	B1	619	LMT	C4'-C3'-C2'	2.29	114.83	110.82
43	XE	102	BCR	C30-C25-C26	-2.29	119.38	122.61
36	CD	511	CLA	CHD-C1D-ND	-2.29	122.35	124.45
33	mK	201	CYC	C2A-C1A-NA	2.29	113.38	110.05
36	iE	101	CLA	O2A-CGA-O1A	-2.29	117.81	123.59
40	DD	412	LMT	O1'-C1'-C2'	2.29	111.88	108.30
33	u4	201	CYC	C2C-C1C-NC	2.29	110.25	108.27
36	c1	505	CLA	CHD-C1D-ND	-2.29	122.35	124.45
36	CD	512	CLA	O2D-CGD-O1D	-2.29	119.36	123.84
33	S4	201	CYC	CHB-C4A-C3A	2.29	130.79	124.90
43	cD	515	BCR	C11-C12-C13	-2.29	119.98	126.42
43	cE	515	BCR	C11-C12-C13	-2.29	119.98	126.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	CD	517	DGD	C4D-C3D-C2D	2.29	114.82	110.82
43	d1	407	BCR	C37-C22-C23	2.29	121.68	118.08
33	6L	201	CYC	CAC-C3C-C2C	2.29	119.98	114.26
33	d5	201	CYC	CHB-C4A-C3A	2.29	130.78	124.90
36	CD	508	CLA	C3D-C2D-C1D	-2.29	102.71	105.83
43	BD	616	BCR	C10-C11-C12	-2.29	116.08	123.22
33	S4	201	CYC	CMB-C2B-C1B	2.29	127.02	124.17
36	iE	101	CLA	C2D-C1D-ND	-2.29	108.42	110.10
36	cE	507	CLA	CAA-C2A-C3A	-2.29	106.51	112.78
33	d8	201	CYC	CHB-C4A-C3A	2.29	130.78	124.90
40	d1	412	LMT	O1'-C1'-C2'	2.29	111.87	108.30
33	KK	201	CYC	OC-C1C-NC	2.29	127.71	124.94
43	XD	102	BCR	C30-C25-C26	-2.29	119.39	122.61
33	MG	201	CYC	CMD-C2D-C3D	-2.29	120.63	124.94
37	dE	408	PL9	C42-C43-C44	-2.29	122.15	127.66
44	cD	518	DGD	C1E-O6E-C5E	2.29	118.18	113.69
33	hA	201	CYC	CHB-C4A-C3A	2.29	130.78	124.90
43	XD	102	BCR	C21-C20-C19	-2.29	116.08	123.22
43	c1	519	BCR	C15-C16-C17	-2.29	118.79	123.47
36	BD	606	CLA	C2D-C1D-ND	-2.29	108.42	110.10
36	C1	503	CLA	C2A-C1A-CHA	2.29	127.86	123.86
33	h6	201	CYC	CHB-C4A-C3A	2.29	130.78	124.90
33	dA	201	CYC	CHB-C4A-C3A	2.29	130.78	124.90
43	dE	407	BCR	C37-C22-C23	2.29	121.68	118.08
43	B1	616	BCR	C10-C11-C12	-2.29	116.08	123.22
33	V4	201	CYC	CAA-C2A-C3A	2.29	132.13	127.88
33	h5	201	CYC	CHB-C4A-C3A	2.29	130.78	124.90
43	BE	616	BCR	C10-C11-C12	-2.29	116.08	123.22
33	6G	201	CYC	CAC-C3C-C2C	2.29	119.97	114.26
36	CE	515	CLA	C2A-C1A-CHA	2.29	127.86	123.86
33	ZK	201	CYC	OC-C1C-C2C	-2.29	124.36	126.17
45	d1	402	PHO	O1D-CGD-CBD	-2.29	120.93	124.74
33	uB	201	CYC	C2A-C1A-NA	2.29	113.37	110.05
43	b1	617	BCR	C10-C11-C12	-2.29	116.09	123.22
44	CE	517	DGD	C4D-C3D-C2D	2.28	114.81	110.82
36	bD	612	CLA	O2D-CGD-O1D	-2.28	119.37	123.84
33	d6	201	CYC	CHB-C4A-C3A	2.28	130.78	124.90
33	S4	201	CYC	CHB-C1B-C2B	-2.28	122.42	126.95
33	dI	201	CYC	CHB-C4A-C3A	2.28	130.77	124.90
36	b1	612	CLA	O2D-CGD-O1D	-2.28	119.37	123.84
33	hJ	201	CYC	CHB-C4A-C3A	2.28	130.77	124.90
36	A1	405	CLA	CAA-C2A-C3A	-2.28	106.53	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	cD	519	BCR	C15-C16-C17	-2.28	118.80	123.47
36	aD	404	CLA	CAC-C3C-C4C	2.28	127.77	124.81
40	DE	412	LMT	O1'-C1'-C2'	2.28	111.87	108.30
43	C1	520	BCR	C16-C15-C14	-2.28	118.80	123.47
33	hH	201	CYC	CHB-C4A-C3A	2.28	130.77	124.90
37	d1	408	PL9	C51-C49-C50	2.28	119.64	114.60
33	f6	201	CYC	CHB-C4A-C3A	2.28	130.77	124.90
33	4G	201	CYC	CAC-C3C-C2C	2.28	119.96	114.26
43	CE	520	BCR	C16-C15-C14	-2.28	118.80	123.47
43	c1	519	BCR	C33-C5-C4	2.28	118.00	113.62
37	dD	408	PL9	C51-C49-C50	2.28	119.64	114.60
36	c1	507	CLA	CAA-C2A-C3A	-2.28	106.53	112.78
36	bE	612	CLA	O2D-CGD-O1D	-2.28	119.38	123.84
33	KF	201	CYC	OC-C1C-NC	2.28	127.70	124.94
33	uB	201	CYC	C2C-C1C-NC	2.28	110.24	108.27
40	D1	412	LMT	C3'-C4'-C5'	-2.28	106.17	110.24
33	dH	201	CYC	CHB-C4A-C3A	2.28	130.76	124.90
43	X1	102	BCR	C30-C25-C26	-2.28	119.40	122.61
33	O4	201	CYC	CHB-C1B-NB	-2.28	121.16	126.06
36	cD	511	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
33	OB	201	CYC	CHB-C1B-NB	-2.28	121.16	126.06
36	c1	511	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
43	hD	105	BCR	C30-C25-C26	-2.28	119.40	122.61
36	AD	405	CLA	CAA-C2A-C3A	-2.28	106.54	112.78
36	CD	507	CLA	O2A-CGA-O1A	-2.28	117.84	123.59
33	h7	201	CYC	CHB-C4A-C3A	2.28	130.76	124.90
36	CD	503	CLA	C2A-C1A-CHA	2.28	127.84	123.86
33	d2	201	CYC	CHB-C4A-C3A	2.28	130.76	124.90
43	CD	516	BCR	C29-C30-C25	2.28	113.99	110.48
43	bD	617	BCR	C10-C11-C12	-2.28	116.11	123.22
44	cE	518	DGD	C1E-O6E-C5E	2.28	118.16	113.69
43	iD	102	BCR	C11-C10-C9	-2.28	124.06	127.31
33	dC	201	CYC	CHB-C4A-C3A	2.28	130.76	124.90
36	cD	507	CLA	CAA-C2A-C3A	-2.28	106.54	112.78
33	hC	201	CYC	CHB-C4A-C3A	2.28	130.75	124.90
33	a4	201	CYC	CAC-C3C-C4C	-2.28	106.83	112.67
33	d7	201	CYC	CHB-C4A-C3A	2.28	130.75	124.90
36	CD	504	CLA	O2D-CGD-O1D	-2.28	119.39	123.84
33	z4	201	CYC	CHB-C1B-NB	-2.28	121.17	126.06
40	dE	412	LMT	O1'-C1'-C2'	2.28	111.86	108.30
33	f3	201	CYC	CHB-C4A-C3A	2.28	130.75	124.90
33	f8	201	CYC	CHB-C4A-C3A	2.28	130.75	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BD	613	CLA	C2D-C1D-ND	-2.28	108.43	110.10
36	CE	504	CLA	O2D-CGD-O1D	-2.28	119.39	123.84
33	f5	201	CYC	CHB-C4A-C3A	2.28	130.75	124.90
40	BD	619	LMT	C4'-C3'-C2'	2.28	114.80	110.82
42	eE	101	LHG	O7-C7-O9	-2.27	118.20	123.70
33	d3	201	CYC	CHB-C4A-C3A	2.27	130.75	124.90
43	cE	519	BCR	C33-C5-C4	2.27	117.99	113.62
33	yB	201	CYC	CAC-C3C-C2C	2.27	119.94	114.26
33	4L	201	CYC	CAC-C3C-C2C	2.27	119.94	114.26
43	hE	105	BCR	C30-C25-C26	-2.27	119.41	122.61
36	BE	606	CLA	C2D-C1D-ND	-2.27	108.43	110.10
43	bE	617	BCR	C10-C11-C12	-2.27	116.12	123.22
38	CD	501	SQD	C44-O6-C1	-2.27	109.30	113.74
38	CE	501	SQD	C44-O6-C1	-2.27	109.30	113.74
33	z4	201	CYC	CAA-CBA-CGA	-2.27	108.71	113.60
33	f7	201	CYC	CHB-C4A-C3A	2.27	130.75	124.90
44	C1	517	DGD	C4D-C3D-C2D	2.27	114.79	110.82
33	dJ	201	CYC	CHB-C4A-C3A	2.27	130.75	124.90
36	D1	405	CLA	C2D-C1D-ND	-2.27	108.43	110.10
36	CD	504	CLA	CMB-C2B-C1B	-2.27	124.97	128.46
33	jJ	201	CYC	CHB-C4A-C3A	2.27	130.74	124.90
33	fH	201	CYC	CHB-C4A-C3A	2.27	130.74	124.90
40	DE	413	LMT	C3'-C4'-C5'	-2.27	106.19	110.24
36	b1	606	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
33	h2	201	CYC	CHB-C4A-C3A	2.27	130.74	124.90
33	y4	201	CYC	CAC-C3C-C2C	2.27	119.93	114.26
40	BE	619	LMT	C4'-C3'-C2'	2.27	114.79	110.82
36	bD	606	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
36	AE	405	CLA	CAA-C2A-C3A	-2.27	106.56	112.78
36	CE	507	CLA	O2A-CGA-O1A	-2.27	117.86	123.59
43	bE	616	BCR	C27-C26-C25	-2.27	119.44	122.73
33	h8	201	CYC	CHB-C4A-C3A	2.27	130.74	124.90
33	h9	201	CYC	CHB-C4A-C3A	2.27	130.74	124.90
33	fI	201	CYC	CHB-C4A-C3A	2.27	130.74	124.90
33	zB	201	CYC	CHB-C1B-NB	-2.27	121.19	126.06
36	C1	511	CLA	CHD-C1D-ND	-2.27	122.37	124.45
43	B1	615	BCR	C27-C26-C25	-2.27	119.44	122.73
33	w4	201	CYC	CAD-CBD-CGD	-2.27	107.40	113.76
47	E1	101	HEM	C4A-C3A-C2A	2.27	108.57	107.00
33	jC	201	CYC	CHB-C4A-C3A	2.27	130.73	124.90
36	C1	504	CLA	O2D-CGD-O1D	-2.27	119.40	123.84
33	JK	201	CYC	CAD-CBD-CGD	-2.27	107.40	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	b6	201	CYC	CHB-C4A-C3A	2.27	130.73	124.90
33	hI	201	CYC	CHB-C4A-C3A	2.27	130.73	124.90
33	zB	201	CYC	CAA-CBA-CGA	-2.27	108.72	113.60
33	fA	201	CYC	CHB-C4A-C3A	2.27	130.73	124.90
43	CD	520	BCR	C16-C15-C14	-2.27	118.83	123.47
33	IK	201	CYC	OB-C4B-NB	-2.27	119.81	125.08
33	VB	201	CYC	CAA-C2A-C3A	2.27	132.10	127.88
36	cE	508	CLA	CHB-C4A-NA	2.26	127.64	124.51
36	cE	513	CLA	O2A-CGA-O1A	-2.26	117.88	123.59
33	II	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
33	aB	201	CYC	CAC-C3C-C4C	-2.26	106.86	112.67
33	IF	201	CYC	OB-C4B-NB	-2.26	119.81	125.08
43	h1	105	BCR	C30-C25-C26	-2.26	119.42	122.61
33	XF	201	CYC	C4D-CHA-C1A	2.26	131.51	128.81
33	fC	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
33	j6	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
33	lC	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
33	b7	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
33	jA	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
33	3F	101	CYC	C2C-C1C-NC	2.26	110.22	108.27
42	e1	101	LHG	O7-C7-O9	-2.26	118.23	123.70
33	JF	201	CYC	CAD-CBD-CGD	-2.26	107.42	113.76
33	IG	201	CYC	C1B-NB-C4B	-2.26	107.79	110.67
33	l3	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
33	PB	201	CYC	OC-C1C-C2C	-2.26	124.38	126.17
33	d9	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
33	f9	201	CYC	CHB-C4A-C3A	2.26	130.72	124.90
36	bD	606	CLA	C2A-C1A-CHA	2.26	127.81	123.86
47	ED	101	HEM	C4A-C3A-C2A	2.26	108.57	107.00
33	jH	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90
33	bA	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90
33	u4	201	CYC	C2A-C1A-NA	2.26	113.34	110.05
36	CE	514	CLA	O2D-CGD-O1D	-2.26	119.42	123.84
33	l2	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90
33	lH	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90
37	D1	407	PL9	C47-C46-C44	-2.26	105.54	112.98
33	q4	201	CYC	C2C-C1C-NC	2.26	110.22	108.27
33	qB	201	CYC	C2C-C1C-NC	2.26	110.22	108.27
38	C1	501	SQD	C44-O6-C1	-2.26	109.33	113.74
43	BE	615	BCR	C27-C26-C25	-2.26	119.45	122.73
33	j2	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90
33	jI	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	c1	507	CLA	O1D-CGD-CBD	2.26	129.11	124.48
43	b1	616	BCR	C27-C26-C25	-2.26	119.45	122.73
36	hE	101	CLA	CHB-C4A-NA	2.26	127.64	124.51
33	f2	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90
33	j7	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90
43	cD	519	BCR	C33-C5-C4	2.26	117.95	113.62
39	y1	101	LMG	C1-O6-C5	2.26	118.12	113.69
36	cE	510	CLA	C1D-ND-C4D	2.26	107.94	106.33
33	wB	201	CYC	CAD-CBD-CGD	-2.26	107.43	113.76
33	j3	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90
36	cD	508	CLA	CHB-C4A-NA	2.26	127.63	124.51
33	b5	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90
33	l9	201	CYC	CHB-C4A-C3A	2.26	130.71	124.90
33	VG	201	CYC	C1A-C2A-C3A	-2.26	104.28	106.78
33	j5	201	CYC	CHB-C4A-C3A	2.26	130.70	124.90
33	l7	201	CYC	CHB-C4A-C3A	2.26	130.70	124.90
33	fJ	201	CYC	CHB-C4A-C3A	2.26	130.70	124.90
36	C1	514	CLA	O2D-CGD-O1D	-2.26	119.43	123.84
36	a1	405	CLA	CAC-C3C-C4C	2.26	127.74	124.81
39	yE	101	LMG	C1-O6-C5	2.26	118.12	113.69
33	QL	201	CYC	CAD-CBD-CGD	-2.26	107.44	113.76
33	l8	201	CYC	CHB-C4A-C3A	2.25	130.70	124.90
36	c1	508	CLA	CHB-C4A-NA	2.25	127.63	124.51
33	3K	101	CYC	C2C-C1C-NC	2.25	110.22	108.27
33	RL	201	CYC	C2C-C3C-C4C	-2.25	97.96	101.34
33	7G	201	CYC	CMB-C2B-C3B	-2.25	120.00	126.12
43	bD	616	BCR	C27-C26-C25	-2.25	119.46	122.73
33	bI	201	CYC	CHB-C4A-C3A	2.25	130.69	124.90
33	aB	201	CYC	C2A-C1A-NA	2.25	113.33	110.05
33	b9	201	CYC	CHB-C4A-C3A	2.25	130.69	124.90
33	lA	201	CYC	CHB-C4A-C3A	2.25	130.69	124.90
33	jF	201	CYC	C2C-C1C-NC	2.25	110.22	108.27
36	cD	513	CLA	O2A-CGA-O1A	-2.25	117.91	123.59
33	c5	201	CYC	CBD-CAD-C3D	2.25	116.46	112.62
43	BD	615	BCR	C27-C26-C25	-2.25	119.46	122.73
33	bC	201	CYC	CHB-C4A-C3A	2.25	130.69	124.90
36	BE	614	CLA	CHD-C1D-C2D	2.25	130.20	125.48
33	bH	201	CYC	CHB-C4A-C3A	2.25	130.69	124.90
33	vB	201	CYC	C4D-CHA-C1A	2.25	131.50	128.81
36	C1	504	CLA	CMB-C2B-C1B	-2.25	125.00	128.46
36	hD	101	CLA	CHB-C4A-NA	2.25	127.62	124.51
36	AE	404	CLA	O2D-CGD-O1D	-2.25	119.44	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	k1	102	BCR	C21-C20-C19	-2.25	116.20	123.22
33	jK	201	CYC	C2C-C1C-NC	2.25	110.21	108.27
33	nF	201	CYC	CHB-C4A-NA	-2.25	120.23	124.93
36	CE	504	CLA	CMB-C2B-C1B	-2.25	125.01	128.46
36	bE	614	CLA	C2D-C1D-ND	-2.25	108.45	110.10
36	h1	101	CLA	CHB-C4A-NA	2.25	127.62	124.51
33	j8	201	CYC	CHB-C4A-C3A	2.25	130.68	124.90
36	A1	404	CLA	O2D-CGD-O1D	-2.25	119.44	123.84
43	ZE	102	BCR	C21-C20-C19	-2.25	116.20	123.22
33	7L	201	CYC	CMB-C2B-C3B	-2.25	120.02	126.12
36	bE	606	CLA	C2A-C1A-CHA	2.25	127.79	123.86
33	b2	201	CYC	CHB-C4A-C3A	2.25	130.68	124.90
43	bD	616	BCR	C39-C30-C25	-2.25	106.66	110.30
33	nK	201	CYC	CHB-C4A-NA	-2.25	120.23	124.93
33	IL	201	CYC	C1B-NB-C4B	-2.25	107.81	110.67
36	c1	502	CLA	C2A-C1A-CHA	2.25	127.79	123.86
43	BE	615	BCR	C21-C20-C19	-2.25	116.21	123.22
42	eD	101	LHG	O7-C7-O9	-2.25	118.28	123.70
33	l6	201	CYC	CHB-C4A-C3A	2.25	130.67	124.90
36	cE	503	CLA	C2A-C1A-CHA	2.25	127.78	123.86
36	BD	614	CLA	CHD-C1D-C2D	2.25	130.19	125.48
33	VB	201	CYC	C1B-CHB-C4A	2.25	133.57	128.08
33	b8	201	CYC	CHB-C4A-C3A	2.24	130.67	124.90
36	CD	514	CLA	O2D-CGD-O1D	-2.24	119.45	123.84
36	cD	507	CLA	O1D-CGD-CBD	2.24	129.08	124.48
39	yD	101	LMG	C1-O6-C5	2.24	118.09	113.69
33	j9	201	CYC	CHB-C4A-C3A	2.24	130.67	124.90
33	lJ	201	CYC	CHB-C4A-C3A	2.24	130.67	124.90
36	c1	513	CLA	O2A-CGA-O1A	-2.24	117.93	123.59
33	V4	201	CYC	C1B-CHB-C4A	2.24	133.56	128.08
36	AD	404	CLA	O2D-CGD-O1D	-2.24	119.45	123.84
43	bD	616	BCR	C21-C20-C19	-2.24	116.22	123.22
36	BE	601	CLA	O2A-CGA-O1A	-2.24	117.71	123.30
36	B1	601	CLA	O2A-CGA-O1A	-2.24	117.71	123.30
36	c1	512	CLA	O2D-CGD-CBD	2.24	115.25	111.27
43	kE	102	BCR	C21-C20-C19	-2.24	116.22	123.22
33	b3	201	CYC	CHB-C4A-C3A	2.24	130.66	124.90
39	BE	618	LMG	O7-C10-O9	-2.24	118.29	123.70
39	yE	101	LMG	C8-O7-C10	-2.24	112.27	117.79
36	BD	601	CLA	O2A-CGA-O1A	-2.24	117.71	123.30
33	QG	201	CYC	CAD-CBD-CGD	-2.24	107.48	113.76
36	B1	613	CLA	C2D-C1D-ND	-2.24	108.45	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	a4	201	CYC	C2A-C1A-NA	2.24	113.31	110.05
37	DE	408	PL9	C47-C46-C44	-2.24	105.61	112.98
36	cD	503	CLA	C2A-C1A-CHA	2.24	127.77	123.86
33	l5	201	CYC	CHB-C4A-C3A	2.24	130.66	124.90
33	aK	201	CYC	CAA-C2A-C1A	2.24	128.97	125.01
33	c8	201	CYC	CBD-CAD-C3D	2.24	116.44	112.62
36	B1	614	CLA	CHD-C1D-C2D	2.24	130.17	125.48
36	cE	512	CLA	O2A-CGA-O1A	-2.24	117.95	123.59
33	vB	201	CYC	CAA-CBA-CGA	-2.24	108.79	113.60
36	aE	405	CLA	CHA-C4D-ND	2.24	137.18	132.50
33	cI	201	CYC	CBD-CAD-C3D	2.24	116.44	112.62
37	DD	408	PL9	C47-C46-C44	-2.24	105.62	112.98
36	c1	504	CLA	O1D-CGD-CBD	2.24	129.06	124.48
33	C4	1002	CYC	OB-C4B-NB	-2.24	119.88	125.08
33	gF	201	CYC	CAD-CBD-CGD	-2.24	107.49	113.76
33	v4	201	CYC	C4D-CHA-C1A	2.24	131.48	128.81
36	cD	505	CLA	O1D-CGD-CBD	2.23	129.06	124.48
43	CD	521	BCR	C21-C20-C19	-2.23	116.24	123.22
33	B4	1004	CYC	CHA-C1A-C2A	-2.23	120.16	125.32
43	c1	515	BCR	C29-C30-C25	2.23	113.92	110.48
43	kD	102	BCR	C21-C20-C19	-2.23	116.24	123.22
37	d1	408	PL9	C47-C46-C44	-2.23	105.63	112.98
43	Z1	102	BCR	C21-C20-C19	-2.23	116.25	123.22
39	y1	101	LMG	C8-O7-C10	-2.23	112.29	117.79
39	yD	101	LMG	C8-O7-C10	-2.23	112.29	117.79
33	RG	201	CYC	C2C-C3C-C4C	-2.23	97.99	101.34
37	dD	408	PL9	C47-C46-C44	-2.23	105.63	112.98
33	P4	201	CYC	OC-C1C-C2C	-2.23	124.40	126.17
33	eK	201	CYC	CAD-CBD-CGD	-2.23	107.50	113.76
33	XF	201	CYC	CHB-C4A-C3A	2.23	130.64	124.90
36	c1	510	CLA	C1D-ND-C4D	2.23	107.92	106.33
33	bJ	201	CYC	CHB-C4A-C3A	2.23	130.64	124.90
39	BD	618	LMG	O7-C10-O9	-2.23	118.31	123.70
36	bD	615	CLA	CHD-C1D-C2D	2.23	130.16	125.48
33	gK	201	CYC	CAD-CBD-CGD	-2.23	107.50	113.76
36	CE	510	CLA	CHC-C1C-NC	2.23	127.59	124.20
33	aF	201	CYC	CAA-C2A-C1A	2.23	128.96	125.01
33	cC	201	CYC	CBD-CAD-C3D	2.23	116.43	112.62
37	dE	408	PL9	C47-C46-C44	-2.23	105.64	112.98
36	b1	615	CLA	CHD-C1D-C2D	2.23	130.16	125.48
43	cE	519	BCR	C1-C6-C5	-2.23	119.47	122.61
33	c9	201	CYC	CBD-CAD-C3D	2.23	116.43	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	cJ	201	CYC	CBD-CAD-C3D	2.23	116.43	112.62
33	NG	201	CYC	CHB-C1B-C2B	-2.23	122.53	126.95
36	cE	507	CLA	O1D-CGD-CBD	2.23	129.05	124.48
43	BD	615	BCR	C21-C20-C19	-2.23	116.26	123.22
33	KF	201	CYC	CMC-C2C-C3C	2.23	122.82	113.83
33	cH	201	CYC	CBD-CAD-C3D	2.23	116.42	112.62
36	cD	512	CLA	O2D-CGD-CBD	2.23	115.23	111.27
33	VL	201	CYC	C1A-C2A-C3A	-2.23	104.32	106.78
43	bE	616	BCR	C21-C20-C19	-2.23	116.26	123.22
33	NL	201	CYC	CHB-C1B-C2B	-2.23	122.53	126.95
43	b1	616	BCR	C21-C20-C19	-2.23	116.27	123.22
43	bE	616	BCR	C39-C30-C25	-2.23	106.69	110.30
36	c1	505	CLA	CBA-CAA-C2A	2.23	120.44	113.86
33	XK	201	CYC	CHB-C4A-C3A	2.23	130.63	124.90
43	DE	407	BCR	C24-C23-C22	-2.23	122.87	126.23
43	b1	616	BCR	C39-C30-C25	-2.23	106.69	110.30
43	cD	515	BCR	C29-C30-C25	2.23	113.91	110.48
43	B1	615	BCR	C21-C20-C19	-2.23	116.27	123.22
36	cD	506	CLA	CBA-CAA-C2A	2.23	120.43	113.86
33	BB	1004	CYC	CHA-C1A-C2A	-2.23	120.18	125.32
33	XK	201	CYC	C4D-CHA-C1A	2.23	131.47	128.81
44	cD	518	DGD	C2G-O2G-C1B	-2.23	112.31	117.79
44	cE	518	DGD	C2G-O2G-C1B	-2.23	112.31	117.79
33	KK	201	CYC	CMC-C2C-C3C	2.23	122.81	113.83
36	cD	510	CLA	C1D-ND-C4D	2.22	107.92	106.33
36	cE	506	CLA	CBA-CAA-C2A	2.22	120.43	113.86
33	u4	201	CYC	CHB-C1B-NB	-2.22	121.28	126.06
45	DD	401	PHO	CMC-C2C-C3C	2.22	129.13	124.94
45	DD	403	PHO	C13-C12-C11	2.22	130.30	113.42
36	a1	406	CLA	CHA-C4D-ND	2.22	137.15	132.50
36	CD	509	CLA	C4-C3-C5	2.22	119.01	115.27
39	bE	619	LMG	O7-C10-O9	-2.22	118.33	123.70
33	BB	1001	CYC	C1B-C2B-C3B	-2.22	105.55	107.87
33	5L	201	CYC	CHB-C1B-C2B	-2.22	122.55	126.95
33	eF	201	CYC	CAD-CBD-CGD	-2.22	107.53	113.76
33	C4	1002	CYC	CAB-C3B-C2B	-2.22	123.73	127.53
36	bE	615	CLA	CHD-C1D-C2D	2.22	130.14	125.48
44	c1	518	DGD	C2G-O2G-C1B	-2.22	112.32	117.79
36	aD	405	CLA	CHA-C4D-ND	2.22	137.14	132.50
33	cA	201	CYC	CBD-CAD-C3D	2.22	116.41	112.62
33	v4	201	CYC	CAA-CBA-CGA	-2.22	108.83	113.60
43	BD	615	BCR	C39-C30-C25	-2.22	106.70	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	D1	402	PHO	C6-C7-C8	2.22	123.09	115.92
36	c1	506	CLA	C2D-C1D-ND	-2.22	108.47	110.10
33	6G	201	CYC	CAD-C3D-C2D	2.22	133.62	127.25
33	c6	201	CYC	CBD-CAD-C3D	2.22	116.41	112.62
33	IG	201	CYC	CBC-CAC-C3C	2.22	118.41	113.47
36	DD	406	CLA	C2D-C1D-ND	-2.22	108.47	110.10
33	c3	201	CYC	CBD-CAD-C3D	2.22	116.41	112.62
43	BE	615	BCR	C39-C30-C25	-2.22	106.70	110.30
33	mF	201	CYC	C1A-C2A-C3A	-2.22	104.33	106.78
45	DE	401	PHO	O2A-CGA-CBA	2.22	118.87	111.91
33	5G	201	CYC	CHB-C1B-C2B	-2.22	122.55	126.95
33	uB	201	CYC	CHB-C1B-NB	-2.22	121.30	126.06
43	CE	516	BCR	C19-C18-C17	2.22	122.34	118.94
44	cE	516	DGD	C6E-C5E-C4E	-2.22	107.81	113.00
36	c1	512	CLA	O2A-CGA-O1A	-2.22	118.00	123.59
44	cD	516	DGD	C6E-C5E-C4E	-2.22	107.81	113.00
36	C1	506	CLA	CHA-C1A-NA	-2.22	121.32	126.40
33	6L	201	CYC	CAD-C3D-C2D	2.22	133.61	127.25
43	cD	519	BCR	C1-C6-C5	-2.21	119.49	122.61
36	CD	510	CLA	CHC-C1C-NC	2.21	127.56	124.20
36	C1	510	CLA	CHC-C1C-NC	2.21	127.56	124.20
43	cE	515	BCR	C29-C30-C25	2.21	113.89	110.48
43	D1	406	BCR	C24-C23-C22	-2.21	122.89	126.23
33	IL	201	CYC	CBC-CAC-C3C	2.21	118.39	113.47
39	B1	618	LMG	O7-C10-O9	-2.21	118.36	123.70
36	cE	505	CLA	O1D-CGD-CBD	2.21	129.01	124.48
33	c7	201	CYC	CBD-CAD-C3D	2.21	116.39	112.62
33	CB	1002	CYC	OB-C4B-NB	-2.21	119.94	125.08
36	bD	603	CLA	O2A-CGA-O1A	-2.21	117.79	123.30
36	cD	512	CLA	O2A-CGA-O1A	-2.21	118.01	123.59
36	bE	603	CLA	O2A-CGA-O1A	-2.21	117.79	123.30
40	jE	101	LMT	C2'-C3'-C4'	2.21	114.73	109.68
33	gJ	202	CYC	CBD-CAD-C3D	2.21	116.39	112.62
43	B1	615	BCR	C39-C30-C25	-2.21	106.72	110.30
33	CB	1002	CYC	CAB-C3B-C2B	-2.21	123.75	127.53
33	c2	201	CYC	CBD-CAD-C3D	2.21	116.39	112.62
36	cE	512	CLA	O2D-CGD-CBD	2.21	115.19	111.27
36	CE	509	CLA	C4-C3-C5	2.21	118.98	115.27
33	SB	201	CYC	CHA-C1A-C2A	-2.21	120.22	125.32
45	A1	412	PHO	O2A-CGA-CBA	2.21	118.83	111.91
36	BD	604	CLA	C2A-C1A-CHA	2.21	127.72	123.86
36	BE	604	CLA	C2A-C1A-CHA	2.21	127.72	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	b1	603	CLA	O2A-CGA-O1A	-2.21	117.80	123.30
40	jD	101	LMT	C2'-C3'-C4'	2.21	114.72	109.68
33	LG	201	CYC	C4A-C3A-C2A	-2.21	103.97	106.51
45	aE	412	PHO	C4A-C3A-C2A	-2.21	100.74	102.84
33	HL	201	CYC	CBA-CAA-C2A	-2.21	106.50	112.63
39	bD	619	LMG	O7-C10-O9	-2.21	118.37	123.70
33	PB	201	CYC	C4D-CHA-C1A	-2.20	126.17	128.81
36	C1	509	CLA	C4-C3-C5	2.20	118.98	115.27
43	BE	616	BCR	C38-C26-C25	-2.20	122.05	124.53
33	zB	201	CYC	C3A-C4A-NA	2.20	115.23	110.53
36	B1	604	CLA	C2A-C1A-CHA	2.20	127.71	123.86
33	z4	201	CYC	C3A-C4A-NA	2.20	115.23	110.53
36	b1	606	CLA	C2A-C1A-CHA	2.20	127.71	123.86
36	CE	515	CLA	C1B-CHB-C4A	-2.20	125.75	130.12
36	c1	503	CLA	C1D-ND-C4D	2.20	107.90	106.33
36	c1	512	CLA	C2D-C1D-ND	-2.20	108.48	110.10
43	C1	516	BCR	C19-C18-C17	2.20	122.32	118.94
39	b1	619	LMG	O7-C10-O9	-2.20	118.39	123.70
37	DE	408	PL9	C17-C18-C19	-2.20	122.36	127.66
33	d5	201	CYC	CBA-CAA-C2A	-2.20	106.52	112.63
33	e8	201	CYC	CBD-CAD-C3D	2.20	116.37	112.62
33	g8	202	CYC	CBD-CAD-C3D	2.20	116.37	112.62
33	P4	201	CYC	C4D-CHA-C1A	-2.20	126.18	128.81
36	C1	513	CLA	CAA-C2A-C3A	-2.20	106.76	112.78
33	S4	201	CYC	CHA-C1A-C2A	-2.20	120.25	125.32
39	BE	618	LMG	O8-C28-C29	2.20	118.80	111.91
33	IL	201	CYC	C4A-C3A-C2A	-2.20	103.99	106.51
33	eF	201	CYC	CBA-CAA-C2A	2.20	118.73	112.63
43	DD	407	BCR	C24-C23-C22	-2.20	122.92	126.23
43	BD	616	BCR	C33-C5-C4	2.20	117.83	113.62
33	dI	201	CYC	CBA-CAA-C2A	-2.20	106.53	112.63
36	CD	506	CLA	CHA-C1A-NA	-2.19	121.37	126.40
37	DE	408	PL9	C37-C38-C39	-2.19	122.38	127.66
33	BA	301	CYC	CBD-CAD-C3D	2.19	116.36	112.62
36	b1	606	CLA	CAA-C2A-C3A	-2.19	106.77	112.78
33	LL	201	CYC	C4A-C3A-C2A	-2.19	103.99	106.51
33	d2	201	CYC	CBA-CAA-C2A	-2.19	106.53	112.63
43	c1	515	BCR	C1-C6-C5	-2.19	119.52	122.61
36	CD	515	CLA	C1B-CHB-C4A	-2.19	125.77	130.12
43	C1	516	BCR	C32-C1-C6	-2.19	106.74	110.30
45	aD	412	PHO	O2A-CGA-CBA	2.19	118.79	111.91
33	nK	201	CYC	CBD-CAD-C3D	-2.19	108.88	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	T1	101	LMG	C31-C30-C29	-2.19	105.31	113.19
40	j1	101	LMT	C2'-C3'-C4'	2.19	114.69	109.68
39	BD	618	LMG	O8-C28-C29	2.19	118.79	111.91
36	C1	515	CLA	C1B-CHB-C4A	-2.19	125.78	130.12
43	c1	519	BCR	C1-C6-C5	-2.19	119.53	122.61
33	HG	201	CYC	CBA-CAA-C2A	-2.19	106.54	112.63
43	B1	616	BCR	C38-C26-C25	-2.19	122.07	124.53
36	DE	406	CLA	C2D-C1D-ND	-2.19	108.49	110.10
33	Q4	201	CYC	CAA-CBA-CGA	-2.19	108.89	113.60
33	B2	301	CYC	CBD-CAD-C3D	2.19	116.36	112.62
43	B1	616	BCR	C33-C5-C4	2.19	117.82	113.62
33	B9	301	CYC	CBD-CAD-C3D	2.19	116.36	112.62
33	o4	201	CYC	C1A-C2A-C3A	-2.19	104.36	106.78
33	TG	201	CYC	CHB-C4A-NA	-2.19	120.35	124.93
33	dA	201	CYC	CBA-CAA-C2A	-2.19	106.54	112.63
39	TD	101	LMG	C31-C30-C29	-2.19	105.32	113.19
33	e3	201	CYC	CBD-CAD-C3D	2.19	116.36	112.62
33	k3	201	CYC	CBD-CAD-C3D	2.19	116.36	112.62
36	BE	610	CLA	C2A-C1A-CHA	2.19	127.69	123.86
43	CD	516	BCR	C19-C18-C17	2.19	122.30	118.94
43	bE	617	BCR	C33-C5-C4	2.19	117.82	113.62
33	e7	201	CYC	CBD-CAD-C3D	2.19	116.36	112.62
39	TE	101	LMG	C31-C30-C29	-2.19	105.32	113.19
33	d3	201	CYC	CBA-CAA-C2A	-2.19	106.55	112.63
33	5L	201	CYC	O1D-CGD-CBD	-2.19	116.05	123.08
33	nF	201	CYC	CBD-CAD-C3D	-2.19	108.89	112.62
33	IG	201	CYC	C4A-C3A-C2A	-2.19	104.00	106.51
39	B1	618	LMG	O8-C28-C29	2.19	118.77	111.91
33	gH	202	CYC	CBD-CAD-C3D	2.19	116.35	112.62
33	d9	201	CYC	CBA-CAA-C2A	-2.19	106.55	112.63
33	e6	201	CYC	CBD-CAD-C3D	2.19	116.35	112.62
33	eK	201	CYC	CBA-CAA-C2A	2.19	118.70	112.63
42	A1	411	LHG	O4-P-O5	2.19	123.05	112.24
39	d1	411	LMG	O6-C1-C2	-2.19	105.72	110.35
36	B1	610	CLA	C2A-C1A-CHA	2.19	127.68	123.86
33	oB	201	CYC	C1A-C2A-C3A	-2.19	104.36	106.78
33	mK	201	CYC	C1A-C2A-C3A	-2.19	104.36	106.78
40	j1	101	LMT	C1-O1'-C1'	2.19	117.46	113.84
33	TL	201	CYC	CHB-C4A-NA	-2.19	120.36	124.93
43	BE	616	BCR	C33-C5-C4	2.19	117.81	113.62
36	CD	503	CLA	O2A-CGA-O1A	-2.19	118.08	123.59
33	eC	201	CYC	CBD-CAD-C3D	2.19	116.35	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	eH	201	CYC	CBD-CAD-C3D	2.19	116.35	112.62
33	NL	201	CYC	C1A-C2A-C3A	-2.18	104.36	106.78
36	eE	505	CLA	C1D-ND-C4D	2.18	107.89	106.33
33	d6	201	CYC	CBA-CAA-C2A	-2.18	106.56	112.63
33	dC	201	CYC	CBA-CAA-C2A	-2.18	106.56	112.63
43	dE	407	BCR	C24-C23-C22	-2.18	122.93	126.23
33	BC	301	CYC	CBD-CAD-C3D	2.18	116.35	112.62
33	eI	201	CYC	CBD-CAD-C3D	2.18	116.35	112.62
33	dJ	201	CYC	CBA-CAA-C2A	-2.18	106.56	112.63
37	DD	408	PL9	C37-C38-C39	-2.18	122.40	127.66
36	C1	503	CLA	O2A-CGA-O1A	-2.18	118.08	123.59
33	dH	201	CYC	CBA-CAA-C2A	-2.18	106.56	112.63
39	t1	101	LMG	C31-C30-C29	-2.18	105.34	113.19
33	GG	201	CYC	CHB-C4A-NA	-2.18	120.37	124.93
33	kJ	201	CYC	CBD-CAD-C3D	2.18	116.35	112.62
42	AD	411	LHG	O4-P-O5	2.18	123.03	112.24
43	eE	515	BCR	C1-C6-C5	-2.18	119.54	122.61
36	CE	503	CLA	O2A-CGA-O1A	-2.18	118.08	123.59
33	g5	202	CYC	CBD-CAD-C3D	2.18	116.34	112.62
43	bD	617	BCR	C33-C5-C4	2.18	117.81	113.62
43	BD	616	BCR	C38-C26-C25	-2.18	122.08	124.53
42	AE	411	LHG	O4-P-O5	2.18	123.03	112.24
36	bD	606	CLA	CAA-C2A-C3A	-2.18	106.80	112.78
33	h6	201	CYC	CBA-CAA-C2A	-2.18	106.56	112.63
36	BD	610	CLA	C2A-C1A-CHA	2.18	127.67	123.86
37	d1	408	PL9	C37-C38-C39	-2.18	122.41	127.66
43	iD	102	BCR	C29-C28-C27	-2.18	106.50	111.38
37	dE	408	PL9	C37-C38-C39	-2.18	122.41	127.66
36	CE	513	CLA	CAA-C2A-C3A	-2.18	106.81	112.78
33	e2	201	CYC	CBD-CAD-C3D	2.18	116.34	112.62
36	b1	610	CLA	O2A-CGA-O1A	-2.18	118.09	123.59
36	BE	604	CLA	CAA-C2A-C3A	-2.18	106.81	112.78
36	bE	606	CLA	CAA-C2A-C3A	-2.18	106.81	112.78
36	CD	513	CLA	CAA-C2A-C3A	-2.18	106.81	112.78
36	AD	404	CLA	CAA-C2A-C1A	-2.18	104.83	111.97
36	CE	510	CLA	C2A-C1A-CHA	2.18	127.67	123.86
43	bD	617	BCR	C38-C26-C25	-2.18	122.08	124.53
36	BD	604	CLA	CAA-C2A-C3A	-2.18	106.81	112.78
33	b2	201	CYC	CBA-CAA-C2A	-2.18	106.57	112.63
33	j7	201	CYC	CBA-CAA-C2A	-2.18	106.57	112.63
36	AE	404	CLA	CAA-C2A-C1A	-2.18	104.84	111.97
33	QB	201	CYC	CAA-CBA-CGA	-2.18	108.92	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	i1	101	BCR	C29-C28-C27	-2.18	106.51	111.38
39	tD	101	LMG	C31-C30-C29	-2.18	105.36	113.19
39	tE	101	LMG	C31-C30-C29	-2.18	105.36	113.19
33	bI	201	CYC	CBA-CAA-C2A	-2.18	106.58	112.63
33	e5	201	CYC	CBD-CAD-C3D	2.18	116.34	112.62
36	CE	506	CLA	CHA-C1A-NA	-2.18	121.41	126.40
33	d8	201	CYC	CBA-CAA-C2A	-2.18	106.58	112.63
33	bC	201	CYC	CBA-CAA-C2A	-2.18	106.58	112.63
40	B1	620	LMT	C4'-C3'-C2'	2.18	114.62	110.82
33	BI	301	CYC	CBD-CAD-C3D	2.18	116.34	112.62
43	iE	102	BCR	C29-C28-C27	-2.18	106.51	111.38
44	c1	516	DGD	C6E-C5E-C4E	-2.18	107.91	113.00
39	M1	101	LMG	C1-O6-C5	2.18	117.96	113.69
36	cD	512	CLA	C2D-C1D-ND	-2.18	108.50	110.10
36	bD	610	CLA	O2A-CGA-O1A	-2.18	118.10	123.59
36	cD	513	CLA	C1B-CHB-C4A	-2.18	125.81	130.12
33	hI	201	CYC	CBA-CAA-C2A	-2.18	106.58	112.63
36	CE	512	CLA	CHD-C1D-ND	-2.18	122.45	124.45
36	c1	510	CLA	O1D-CGD-CBD	2.18	128.94	124.48
45	DD	401	PHO	O2A-CGA-CBA	2.18	118.74	111.91
39	bD	619	LMG	O8-C28-C29	2.18	118.73	111.91
33	B6	301	CYC	CBD-CAD-C3D	2.18	116.33	112.62
33	e9	201	CYC	CBD-CAD-C3D	2.18	116.33	112.62
33	l6	201	CYC	CBA-CAA-C2A	-2.17	106.58	112.63
33	d7	201	CYC	CBA-CAA-C2A	-2.17	106.58	112.63
33	k5	201	CYC	CBD-CAD-C3D	2.17	116.33	112.62
33	kA	201	CYC	CBD-CAD-C3D	2.17	116.33	112.62
33	kH	201	CYC	CBD-CAD-C3D	2.17	116.33	112.62
43	cD	515	BCR	C1-C6-C5	-2.17	119.55	122.61
33	ZK	201	CYC	CAD-CBD-CGD	-2.17	107.66	113.76
33	B3	301	CYC	CBD-CAD-C3D	2.17	116.33	112.62
33	RB	201	CYC	CMD-C2D-C3D	-2.17	120.84	124.94
33	hA	201	CYC	CBA-CAA-C2A	-2.17	106.59	112.63
33	II	201	CYC	CBA-CAA-C2A	-2.17	106.59	112.63
39	dD	411	LMG	O6-C1-C2	-2.17	105.75	110.35
39	b1	619	LMG	O8-C28-C29	2.17	118.73	111.91
37	DD	408	PL9	C17-C18-C19	-2.17	122.43	127.66
33	k2	201	CYC	CBD-CAD-C3D	2.17	116.33	112.62
33	k8	201	CYC	CBD-CAD-C3D	2.17	116.33	112.62
33	jI	201	CYC	CBA-CAA-C2A	-2.17	106.59	112.63
36	BE	610	CLA	O2D-CGD-CBD	2.17	115.13	111.27
33	l8	201	CYC	CBA-CAA-C2A	-2.17	106.59	112.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	dD	408	PL9	C37-C38-C39	-2.17	122.43	127.66
36	cD	510	CLA	O1D-CGD-CBD	2.17	128.93	124.48
43	b1	617	BCR	C33-C5-C4	2.17	117.79	113.62
36	CE	511	CLA	CHD-C1D-C2D	2.17	130.04	125.48
33	l9	201	CYC	CBA-CAA-C2A	-2.17	106.59	112.63
33	hJ	201	CYC	CBA-CAA-C2A	-2.17	106.59	112.63
39	bE	619	LMG	O8-C28-C29	2.17	118.72	111.91
36	CD	511	CLA	CHD-C1D-C2D	2.17	130.03	125.48
33	kI	201	CYC	CBD-CAD-C3D	2.17	116.33	112.62
36	B1	604	CLA	CAA-C2A-C3A	-2.17	106.83	112.78
33	bJ	201	CYC	CBA-CAA-C2A	-2.17	106.59	112.63
33	7L	201	CYC	CMA-C3A-C2A	-2.17	120.22	126.12
36	dE	405	CLA	CHC-C1C-NC	2.17	127.50	124.20
33	i3	202	CYC	CBD-CAD-C3D	2.17	116.33	112.62
33	GL	201	CYC	CHB-C4A-NA	-2.17	120.39	124.93
36	cD	504	CLA	C1D-ND-C4D	2.17	107.88	106.33
33	R4	201	CYC	CMD-C2D-C3D	-2.17	120.85	124.94
33	jA	201	CYC	CBA-CAA-C2A	-2.17	106.60	112.63
37	D1	407	PL9	C37-C38-C39	-2.17	122.44	127.66
36	eE	513	CLA	C1B-CHB-C4A	-2.17	125.82	130.12
33	7G	201	CYC	CMA-C3A-C2A	-2.17	120.23	126.12
33	5G	201	CYC	O1D-CGD-CBD	-2.17	116.11	123.08
43	dD	407	BCR	C24-C23-C22	-2.17	122.96	126.23
36	C1	511	CLA	CHD-C1D-C2D	2.17	130.03	125.48
36	CE	515	CLA	CHA-C1A-NA	-2.17	121.43	126.40
36	BD	614	CLA	C2A-C1A-CHA	2.17	127.65	123.86
33	j2	201	CYC	CBA-CAA-C2A	-2.17	106.60	112.63
33	j6	201	CYC	CBA-CAA-C2A	-2.17	106.60	112.63
33	lA	201	CYC	CBA-CAA-C2A	-2.17	106.60	112.63
33	rB	201	CYC	CAC-C3C-C4C	-2.17	107.11	112.67
33	ZF	201	CYC	CAD-CBD-CGD	-2.17	107.68	113.76
39	CD	502	LMG	C7-O1-C1	-2.17	109.50	113.74
33	j3	201	CYC	CBA-CAA-C2A	-2.17	106.60	112.63
45	a1	413	PHO	O1D-CGD-CBD	-2.17	121.13	124.74
33	h5	201	CYC	CBA-CAA-C2A	-2.17	106.60	112.63
39	MD	101	LMG	C1-O6-C5	2.17	117.94	113.69
39	ME	101	LMG	C1-O6-C5	2.17	117.94	113.69
36	A1	404	CLA	CAA-C2A-C1A	-2.17	104.87	111.97
39	CE	502	LMG	C7-O1-C1	-2.17	109.50	113.74
39	CD	502	LMG	C1-O6-C5	2.17	117.94	113.69
33	fA	201	CYC	CBA-CAA-C2A	-2.17	106.61	112.63
33	fC	201	CYC	CBA-CAA-C2A	-2.17	106.61	112.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	cD	511	CLA	CAA-C2A-C3A	-2.17	106.85	112.78
33	vB	201	CYC	OB-C4B-NB	-2.17	120.04	125.08
39	C1	502	LMG	C1-O6-C5	2.17	117.94	113.69
36	H1	102	CLA	O2A-CGA-O1A	-2.16	118.13	123.59
33	j5	201	CYC	CBA-CAA-C2A	-2.16	106.61	112.63
43	b1	617	BCR	C38-C26-C25	-2.16	122.10	124.53
43	CD	516	BCR	C32-C1-C6	-2.16	106.79	110.30
33	b8	201	CYC	CBA-CAA-C2A	-2.16	106.61	112.63
33	hH	201	CYC	CBA-CAA-C2A	-2.16	106.61	112.63
40	C1	521	LMT	C4'-C3'-C2'	2.16	114.60	110.82
33	h3	201	CYC	CBA-CAA-C2A	-2.16	106.61	112.63
37	dD	408	PL9	C17-C18-C19	-2.16	122.45	127.66
39	mE	101	LMG	C1-O6-C5	2.16	117.94	113.69
36	B1	614	CLA	C2A-C1A-CHA	2.16	127.64	123.86
36	B1	601	CLA	CAC-C3C-C4C	2.16	127.62	124.81
33	hC	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
33	f8	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
37	dE	408	PL9	C17-C18-C19	-2.16	122.45	127.66
33	lC	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
36	bE	610	CLA	O2A-CGA-O1A	-2.16	118.14	123.59
43	bE	617	BCR	C38-C26-C25	-2.16	122.10	124.53
33	h2	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
33	b3	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
33	b5	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
33	f7	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
33	jH	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
33	kC	201	CYC	CBD-CAD-C3D	2.16	116.31	112.62
33	j9	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
37	d1	408	PL9	C17-C18-C19	-2.16	122.45	127.66
36	bE	608	CLA	C3C-C4C-NC	-2.16	108.15	110.57
33	h9	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
33	bA	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
33	B4	1001	CYC	C1B-C2B-C3B	-2.16	105.62	107.87
36	c1	504	CLA	C1D-ND-C4D	2.16	107.87	106.33
36	C1	510	CLA	C2A-C1A-CHA	2.16	127.64	123.86
33	bH	201	CYC	CBA-CAA-C2A	-2.16	106.62	112.63
33	k9	201	CYC	CBD-CAD-C3D	2.16	116.31	112.62
33	eA	201	CYC	CBD-CAD-C3D	2.16	116.31	112.62
33	f3	201	CYC	CBA-CAA-C2A	-2.16	106.63	112.63
37	D1	407	PL9	C17-C18-C19	-2.16	122.46	127.66
36	c1	511	CLA	CAA-C2A-C3A	-2.16	106.86	112.78
33	b7	201	CYC	CBA-CAA-C2A	-2.16	106.63	112.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	h8	201	CYC	CBA-CAA-C2A	-2.16	106.63	112.63
33	iJ	202	CYC	CBD-CAD-C3D	2.16	116.30	112.62
33	NG	201	CYC	C1A-C2A-C3A	-2.16	104.39	106.78
36	c1	513	CLA	C1B-CHB-C4A	-2.16	125.84	130.12
33	B7	301	CYC	CBD-CAD-C3D	2.16	116.30	112.62
36	cE	504	CLA	C1D-ND-C4D	2.16	107.87	106.33
36	CD	515	CLA	CHA-C1A-NA	-2.16	121.46	126.40
36	CE	514	CLA	O2A-CGA-O1A	-2.16	118.15	123.59
40	jD	101	LMT	C1-O1'-C1'	2.16	117.42	113.84
33	gK	201	CYC	C3A-C4A-NA	2.16	115.13	110.53
33	fH	201	CYC	CBA-CAA-C2A	-2.16	106.63	112.63
33	r4	201	CYC	CBB-CAB-C3B	-2.16	106.48	112.43
43	d1	407	BCR	C24-C23-C22	-2.16	122.98	126.23
33	IK	201	CYC	C1A-C2A-C3A	-2.16	104.40	106.78
36	C1	513	CLA	CHA-C1A-NA	-2.16	121.46	126.40
36	cE	504	CLA	CHA-C1A-NA	-2.16	121.46	126.40
40	jE	101	LMT	C1-O1'-C1'	2.16	117.42	113.84
33	R4	201	CYC	C4D-CHA-C1A	-2.16	126.23	128.81
36	HD	102	CLA	O2A-CGA-O1A	-2.16	118.15	123.59
33	j8	201	CYC	CBA-CAA-C2A	-2.16	106.64	112.63
33	l2	201	CYC	CBA-CAA-C2A	-2.16	106.64	112.63
33	lH	201	CYC	CBA-CAA-C2A	-2.16	106.64	112.63
33	i7	202	CYC	CBD-CAD-C3D	2.16	116.30	112.62
33	HL	201	CYC	CAA-CBA-CGA	-2.16	108.96	113.60
33	jC	201	CYC	CBA-CAA-C2A	-2.16	106.64	112.63
33	f2	201	CYC	CBA-CAA-C2A	-2.16	106.64	112.63
33	5G	201	CYC	O2D-CGD-CBD	2.16	120.95	114.03
36	cD	505	CLA	C1D-ND-C4D	2.16	107.87	106.33
33	uB	201	CYC	C1A-C2A-C3A	-2.15	104.40	106.78
33	5L	201	CYC	O2D-CGD-CBD	2.15	120.95	114.03
36	cE	510	CLA	O1D-CGD-CBD	2.15	128.89	124.48
36	C1	514	CLA	O2A-CGA-O1A	-2.15	118.15	123.59
33	k7	201	CYC	CBD-CAD-C3D	2.15	116.30	112.62
39	mD	101	LMG	C1-O6-C5	2.15	117.92	113.69
36	CD	509	CLA	CAA-C2A-C3A	-2.15	106.88	112.78
40	CD	522	LMT	C4'-C3'-C2'	2.15	114.58	110.82
36	CD	510	CLA	C2A-C1A-CHA	2.15	127.63	123.86
36	B1	609	CLA	O2D-CGD-O1D	-2.15	119.63	123.84
36	C1	509	CLA	CAA-C2A-C3A	-2.15	106.88	112.78
36	c1	503	CLA	CHA-C1A-NA	-2.15	121.47	126.40
33	rB	201	CYC	CBB-CAB-C3B	-2.15	106.49	112.43
43	CE	516	BCR	C32-C1-C6	-2.15	106.81	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	dE	411	LMG	O6-C1-C2	-2.15	105.79	110.35
33	l7	201	CYC	CBA-CAA-C2A	-2.15	106.65	112.63
36	C1	510	CLA	C1-C2-C3	-2.15	122.32	126.04
33	HG	201	CYC	CAA-CBA-CGA	-2.15	108.97	113.60
33	k6	201	CYC	CBD-CAD-C3D	2.15	116.29	112.62
33	b9	201	CYC	CBA-CAA-C2A	-2.15	106.65	112.63
36	cE	511	CLA	CAA-C2A-C3A	-2.15	106.88	112.78
33	f6	201	CYC	CBA-CAA-C2A	-2.15	106.65	112.63
36	CD	514	CLA	O2A-CGA-O1A	-2.15	118.16	123.59
36	dD	405	CLA	CHC-C1C-NC	2.15	127.47	124.20
33	eJ	201	CYC	CBD-CAD-C3D	2.15	116.29	112.62
39	m1	101	LMG	C1-O6-C5	2.15	117.91	113.69
33	PB	201	CYC	CMC-C2C-C3C	2.15	122.50	113.83
33	P4	201	CYC	CMC-C2C-C3C	2.15	122.50	113.83
36	HE	102	CLA	O2A-CGA-O1A	-2.15	118.16	123.59
43	D1	406	BCR	C28-C27-C26	-2.15	110.24	114.08
33	f9	201	CYC	CBA-CAA-C2A	-2.15	106.65	112.63
33	r4	201	CYC	CAC-C3C-C4C	-2.15	107.15	112.67
36	bE	611	CLA	C2A-C1A-CHA	2.15	127.62	123.86
36	CD	510	CLA	C1-C2-C3	-2.15	122.32	126.04
36	CE	510	CLA	C1-C2-C3	-2.15	122.32	126.04
33	yB	201	CYC	CHB-C1B-NB	-2.15	121.44	126.06
36	CE	512	CLA	CAA-CBA-CGA	2.15	119.54	113.25
36	CE	513	CLA	CHA-C1A-NA	-2.15	121.47	126.40
36	cD	504	CLA	CHA-C1A-NA	-2.15	121.47	126.40
33	iI	202	CYC	CBD-CAD-C3D	2.15	116.29	112.62
33	l5	201	CYC	CBA-CAA-C2A	-2.15	106.65	112.63
33	jJ	201	CYC	CBA-CAA-C2A	-2.15	106.66	112.63
43	zE	101	BCR	C15-C16-C17	-2.15	119.07	123.47
36	d1	405	CLA	CHC-C1C-NC	2.15	127.46	124.20
33	h7	201	CYC	CBA-CAA-C2A	-2.15	106.66	112.63
36	C1	515	CLA	CHA-C1A-NA	-2.15	121.48	126.40
43	CE	520	BCR	C23-C24-C25	-2.15	121.17	127.20
33	l3	201	CYC	CBA-CAA-C2A	-2.15	106.66	112.63
33	i6	202	CYC	CBD-CAD-C3D	2.15	116.28	112.62
33	gF	201	CYC	C3A-C4A-NA	2.15	115.11	110.53
36	b1	611	CLA	C2A-C1A-CHA	2.15	127.61	123.86
36	CE	504	CLA	CMC-C2C-C3C	2.15	131.94	126.12
45	dE	402	PHO	CAA-C2A-C3A	2.15	118.66	112.78
47	EE	101	HEM	CBD-CAD-C3D	-2.15	106.66	112.63
36	C1	512	CLA	CAA-CBA-CGA	2.15	119.53	113.25
33	KK	201	CYC	CAD-CBD-CGD	-2.15	107.74	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	y4	201	CYC	CHB-C1B-NB	-2.15	121.45	126.06
36	CE	509	CLA	CAA-C2A-C3A	-2.15	106.90	112.78
36	CD	504	CLA	CMC-C2C-C3C	2.15	131.94	126.12
36	CD	513	CLA	CHA-C1A-NA	-2.14	121.49	126.40
39	C1	502	LMG	C7-O1-C1	-2.14	109.55	113.74
36	BD	610	CLA	O2D-CGD-CBD	2.14	115.08	111.27
36	CD	512	CLA	CAA-CBA-CGA	2.14	119.52	113.25
36	bE	610	CLA	O2D-CGD-O1D	-2.14	119.64	123.84
36	CE	505	CLA	CHA-C4D-ND	2.14	136.99	132.50
33	KF	201	CYC	CAD-CBD-CGD	-2.14	107.75	113.76
39	DD	411	LMG	O6-C1-C2	-2.14	105.81	110.35
33	fJ	201	CYC	CBA-CAA-C2A	-2.14	106.67	112.63
33	lJ	201	CYC	CBA-CAA-C2A	-2.14	106.67	112.63
33	fI	201	CYC	CBA-CAA-C2A	-2.14	106.67	112.63
33	iH	202	CYC	CBD-CAD-C3D	2.14	116.28	112.62
36	BE	614	CLA	C2A-C1A-CHA	2.14	127.61	123.86
36	hE	102	CLA	O2A-CGA-O1A	-2.14	118.18	123.59
43	dD	407	BCR	C33-C5-C4	2.14	117.73	113.62
36	hE	102	CLA	C2A-C1A-CHA	2.14	127.61	123.86
36	BE	601	CLA	CAC-C3C-C4C	2.14	127.59	124.81
36	CD	512	CLA	CHD-C1D-ND	-2.14	122.48	124.45
43	zD	101	BCR	C15-C16-C17	-2.14	119.09	123.47
33	f5	201	CYC	CBA-CAA-C2A	-2.14	106.68	112.63
36	CD	507	CLA	C2D-C1D-ND	-2.14	108.53	110.10
33	i9	202	CYC	CBD-CAD-C3D	2.14	116.27	112.62
36	b1	615	CLA	C2A-C1A-CHA	2.14	127.60	123.86
43	z1	101	BCR	C15-C16-C17	-2.14	119.09	123.47
43	k1	102	BCR	C38-C26-C25	-2.14	122.12	124.53
47	ED	101	HEM	CBD-CAD-C3D	-2.14	106.68	112.63
33	iA	202	CYC	CBD-CAD-C3D	2.14	116.27	112.62
33	B4	1003	CYC	CMC-C2C-C1C	-2.14	107.79	112.40
36	CE	510	CLA	CAA-C2A-C3A	-2.14	106.92	112.78
33	PG	201	CYC	CMD-C2D-C3D	-2.14	120.91	124.94
33	b6	201	CYC	CBA-CAA-C2A	-2.14	106.68	112.63
36	C1	507	CLA	C2D-C1D-ND	-2.14	108.53	110.10
44	CD	518	DGD	C2G-O2G-C1B	-2.14	112.52	117.79
36	cE	514	CLA	C1B-CHB-C4A	-2.14	125.88	130.12
37	aE	408	PL9	C20-C19-C21	2.14	118.87	115.27
33	b4	101	CYC	CMB-C2B-C1B	2.14	126.84	124.17
40	C1	521	LMT	C1-O1'-C1'	2.14	117.39	113.84
36	CD	505	CLA	CHA-C4D-ND	2.14	136.97	132.50
36	bE	615	CLA	C2A-C1A-CHA	2.14	127.60	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	i5	202	CYC	CBD-CAD-C3D	2.14	116.27	112.62
43	d1	407	BCR	C33-C5-C4	2.14	117.72	113.62
33	v4	201	CYC	CAA-C2A-C1A	2.14	128.79	125.01
43	C1	520	BCR	C23-C24-C25	-2.14	121.20	127.20
39	C1	502	LMG	C8-O7-C10	-2.14	112.53	117.79
39	CE	502	LMG	C1-O6-C5	2.14	117.88	113.69
43	DD	407	BCR	C28-C27-C26	-2.14	110.26	114.08
33	HL	201	CYC	CHB-C1B-NB	2.14	130.65	126.06
36	bE	615	CLA	O2D-CGD-O1D	-2.14	119.66	123.84
36	BD	609	CLA	O2A-CGA-O1A	-2.14	118.20	123.59
44	C1	518	DGD	C2G-O2G-C1B	-2.14	112.53	117.79
33	u4	201	CYC	C1A-C2A-C3A	-2.14	104.42	106.78
33	bB	101	CYC	CMB-C2B-C1B	2.14	126.83	124.17
36	h1	102	CLA	C2A-C1A-CHA	2.14	127.59	123.86
39	CE	502	LMG	C8-O7-C10	-2.14	112.53	117.79
47	E1	101	HEM	CBD-CAD-C3D	-2.14	106.69	112.63
36	bD	611	CLA	C2A-C1A-CHA	2.14	127.59	123.86
33	i8	202	CYC	CBD-CAD-C3D	2.14	116.27	112.62
33	PL	201	CYC	CMD-C2D-C3D	-2.14	120.92	124.94
36	BD	601	CLA	CAC-C3C-C4C	2.14	127.58	124.81
44	CE	518	DGD	C4D-C3D-C2D	2.14	114.55	110.82
36	C1	505	CLA	CHA-C4D-ND	2.14	136.97	132.50
44	CE	518	DGD	C2G-O2G-C1B	-2.14	112.53	117.79
33	IF	201	CYC	C1A-C2A-C3A	-2.14	104.42	106.78
37	DE	408	PL9	C12-C13-C14	-2.14	122.52	127.66
36	C1	512	CLA	CHD-C1D-ND	-2.13	122.49	124.45
40	dD	413	LMT	C4'-C3'-C2'	2.13	114.55	110.82
36	bD	615	CLA	C2A-C1A-CHA	2.13	127.59	123.86
33	RB	201	CYC	C4D-CHA-C1A	-2.13	126.26	128.81
36	c1	514	CLA	C1B-CHB-C4A	-2.13	125.89	130.12
44	CD	518	DGD	C4D-C3D-C2D	2.13	114.55	110.82
36	CD	510	CLA	CAA-C2A-C3A	-2.13	106.93	112.78
43	CD	520	BCR	C23-C24-C25	-2.13	121.21	127.20
43	dE	407	BCR	C33-C5-C4	2.13	117.72	113.62
47	f1	101	HEM	C4C-CHD-C1D	-2.13	119.74	122.56
33	HG	201	CYC	CHB-C1B-NB	2.13	130.64	126.06
43	ZE	101	BCR	C15-C16-C17	-2.13	119.10	123.47
33	BB	1003	CYC	CMC-C2C-C1C	-2.13	107.81	112.40
33	v4	201	CYC	OB-C4B-NB	-2.13	120.12	125.08
39	CD	502	LMG	C8-O7-C10	-2.13	112.54	117.79
36	BE	602	CLA	O2D-CGD-CBD	2.13	115.06	111.27
36	b1	615	CLA	O2D-CGD-O1D	-2.13	119.67	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	bD	610	CLA	O2D-CGD-O1D	-2.13	119.67	123.84
33	cF	201	CYC	CAC-C3C-C4C	-2.13	107.20	112.67
33	QG	201	CYC	C3A-C4A-NA	2.13	115.08	110.53
36	cD	508	CLA	C1B-CHB-C4A	-2.13	125.89	130.12
36	B1	609	CLA	O2A-CGA-O1A	-2.13	118.21	123.59
36	h1	102	CLA	O2A-CGA-O1A	-2.13	118.21	123.59
33	cK	201	CYC	CAC-C3C-C4C	-2.13	107.20	112.67
43	i1	101	BCR	C36-C18-C19	2.13	121.44	118.08
40	B1	620	LMT	C1-O1'-C1'	2.13	117.37	113.84
40	bE	621	LMT	C4'-C3'-C2'	2.13	114.54	110.82
47	EE	101	HEM	C4C-CHD-C1D	-2.13	119.75	122.56
33	i2	202	CYC	CBD-CAD-C3D	2.13	116.26	112.62
44	CE	517	DGD	O1G-C1A-O1A	-2.13	118.22	123.59
33	CB	1002	CYC	CAA-C2A-C1A	2.13	128.78	125.01
33	QL	201	CYC	C3A-C4A-NA	2.13	115.08	110.53
36	BE	609	CLA	O2A-CGA-O1A	-2.13	118.22	123.59
36	B1	610	CLA	O2D-CGD-CBD	2.13	115.05	111.27
43	i1	101	BCR	C35-C13-C12	2.13	121.43	118.08
33	aK	201	CYC	CHB-C4A-NA	-2.13	120.48	124.93
39	D1	410	LMG	O6-C1-C2	-2.13	105.84	110.35
33	GL	201	CYC	CAC-C3C-C2C	2.13	119.58	114.26
33	iC	202	CYC	CBD-CAD-C3D	2.13	116.25	112.62
33	aF	201	CYC	CHB-C4A-NA	-2.13	120.48	124.93
33	S4	201	CYC	C1B-NB-C4B	-2.13	107.96	110.67
36	C1	504	CLA	CMC-C2C-C3C	2.13	131.90	126.12
43	ID	102	BCR	C20-C21-C22	2.13	130.35	127.31
43	CD	516	BCR	C40-C30-C25	-2.13	106.85	110.30
37	aD	408	PL9	C20-C19-C21	2.13	118.85	115.27
40	d1	413	LMT	C4'-C3'-C2'	2.13	114.54	110.82
36	bD	615	CLA	O2D-CGD-O1D	-2.13	119.68	123.84
43	DE	407	BCR	C28-C27-C26	-2.13	110.28	114.08
36	CE	503	CLA	C2D-C1D-ND	-2.13	108.54	110.10
33	C4	1002	CYC	CAA-C2A-C1A	2.13	128.77	125.01
39	AE	408	LMG	C7-O1-C1	-2.13	109.59	113.74
36	hD	102	CLA	C2A-C1A-CHA	2.13	127.58	123.86
36	CD	506	CLA	CHC-C1C-NC	2.13	127.43	124.20
47	f1	101	HEM	CBD-CAD-C3D	-2.13	106.72	112.63
33	S4	201	CYC	CHA-C1A-NA	-2.13	125.88	128.83
36	C1	506	CLA	CHC-C1C-NC	2.13	127.43	124.20
36	cD	514	CLA	C1B-CHB-C4A	-2.12	125.91	130.12
36	b1	608	CLA	C3C-C4C-NC	-2.12	108.19	110.57
36	bD	608	CLA	C3C-C4C-NC	-2.12	108.19	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	fD	101	HEM	CBD-CAD-C3D	-2.12	106.72	112.63
43	I1	102	BCR	C20-C21-C22	2.12	130.34	127.31
45	aE	412	PHO	O1D-CGD-CBD	-2.12	121.20	124.74
36	hD	102	CLA	O2A-CGA-O1A	-2.12	118.23	123.59
44	CD	517	DGD	O1G-C1A-O1A	-2.12	118.23	123.59
40	cE	501	LMT	C4'-C3'-C2'	2.12	114.53	110.82
33	1G	201	CYC	CHB-C1B-C2B	2.12	131.16	126.95
43	d1	407	BCR	C28-C27-C26	-2.12	110.29	114.08
43	dD	407	BCR	C28-C27-C26	-2.12	110.29	114.08
39	DE	411	LMG	O6-C1-C2	-2.12	105.86	110.35
33	r4	201	CYC	C1A-NA-C4A	-2.12	102.51	106.51
33	rB	201	CYC	C1A-NA-C4A	-2.12	102.51	106.51
33	vB	201	CYC	CAA-C2A-C1A	2.12	128.76	125.01
33	4L	201	CYC	O1A-CGA-CBA	-2.12	116.26	123.08
33	wB	201	CYC	CHB-C4A-C3A	2.12	130.36	124.90
33	a4	201	CYC	C4A-C3A-C2A	-2.12	104.07	106.51
33	v4	201	CYC	C1B-CHB-C4A	-2.12	122.90	128.08
33	4G	201	CYC	O1A-CGA-CBA	-2.12	116.26	123.08
45	dD	402	PHO	CAA-C2A-C3A	2.12	118.59	112.78
43	C1	516	BCR	C40-C30-C25	-2.12	106.86	110.30
36	b1	610	CLA	O2D-CGD-O1D	-2.12	119.69	123.84
33	XK	201	CYC	C1A-C2A-C3A	-2.12	104.44	106.78
37	D1	407	PL9	C12-C13-C14	-2.12	122.55	127.66
33	R4	201	CYC	C2C-C1C-NC	2.12	110.10	108.27
37	d1	408	PL9	C45-C44-C46	2.12	118.84	115.27
36	CE	506	CLA	CHC-C1C-NC	2.12	127.42	124.20
44	C1	518	DGD	C4D-C3D-C2D	2.12	114.52	110.82
33	a4	201	CYC	CHB-C1B-C2B	-2.12	122.75	126.95
33	aB	201	CYC	CHB-C1B-C2B	-2.12	122.75	126.95
36	c1	513	CLA	O2D-CGD-O1D	-2.12	119.69	123.84
36	c1	508	CLA	C1B-CHB-C4A	-2.12	125.92	130.12
47	fE	101	HEM	CBD-CAD-C3D	-2.12	106.74	112.63
45	aD	412	PHO	O1D-CGD-CBD	-2.12	121.21	124.74
36	HD	102	CLA	C2A-C1A-CHA	2.12	127.56	123.86
44	H1	103	DGD	C1E-O6E-C5E	2.12	117.85	113.69
43	IE	102	BCR	C20-C21-C22	2.12	130.33	127.31
33	w4	201	CYC	CHB-C4A-C3A	2.12	130.35	124.90
43	Z1	101	BCR	C15-C16-C17	-2.12	119.14	123.47
37	DD	408	PL9	C12-C13-C14	-2.12	122.56	127.66
33	SB	201	CYC	C1B-NB-C4B	-2.12	107.97	110.67
36	CD	509	CLA	CHA-C1A-NA	-2.12	121.55	126.40
36	H1	102	CLA	C2A-C1A-CHA	2.12	127.56	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	c1	514	CLA	CAA-C2A-C3A	-2.12	106.98	112.78
33	GG	201	CYC	CAC-C3C-C2C	2.12	119.55	114.26
36	C1	510	CLA	CAA-C2A-C3A	-2.12	106.98	112.78
45	DE	403	PHO	C14-C13-C12	2.12	118.96	111.29
36	c1	514	CLA	CHA-C1A-NA	-2.12	121.55	126.40
33	BB	1004	CYC	C4D-CHA-C1A	2.12	131.34	128.81
43	b1	618	BCR	C38-C26-C25	-2.12	122.15	124.53
36	DE	405	CLA	CHC-C1C-NC	2.12	127.41	124.20
36	BE	609	CLA	O2D-CGD-O1D	-2.12	119.70	123.84
36	cE	508	CLA	C1B-CHB-C4A	-2.12	125.93	130.12
37	a1	409	PL9	C20-C19-C21	2.12	118.83	115.27
43	D1	406	BCR	C33-C5-C4	2.12	117.68	113.62
33	jF	201	CYC	OB-C4B-NB	-2.11	120.16	125.08
40	cD	501	LMT	C4'-C3'-C2'	2.11	114.52	110.82
40	cE	501	LMT	C1-O1'-C1'	2.11	117.35	113.84
36	C1	509	CLA	CHA-C1A-NA	-2.11	121.56	126.40
40	dE	413	LMT	C4'-C3'-C2'	2.11	114.51	110.82
43	dE	407	BCR	C28-C27-C26	-2.11	110.30	114.08
43	DD	407	BCR	C33-C5-C4	2.11	117.68	113.62
33	CB	1001	CYC	CAD-CBD-CGD	-2.11	107.83	113.76
36	cD	510	CLA	CMA-C3A-C4A	-2.11	106.09	111.77
36	c1	512	CLA	C16-C15-C13	-2.11	109.09	115.92
33	vB	201	CYC	C1B-CHB-C4A	-2.11	122.92	128.08
44	HD	103	DGD	C1E-O6E-C5E	2.11	117.84	113.69
43	CD	520	BCR	C27-C26-C25	-2.11	119.66	122.73
44	C1	517	DGD	O1G-C1A-O1A	-2.11	118.26	123.59
36	cE	510	CLA	CMA-C3A-C4A	-2.11	106.09	111.77
36	C1	503	CLA	C2D-C1D-ND	-2.11	108.55	110.10
33	C4	1001	CYC	CAD-CBD-CGD	-2.11	107.84	113.76
36	bE	604	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
33	XF	201	CYC	C1A-C2A-C3A	-2.11	104.44	106.78
36	d1	403	CLA	CHD-C1D-ND	-2.11	122.51	124.45
36	bD	611	CLA	O2D-CGD-CBD	2.11	115.02	111.27
36	BD	602	CLA	O2D-CGD-CBD	2.11	115.02	111.27
43	ZD	101	BCR	C15-C16-C17	-2.11	119.15	123.47
36	CD	512	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
43	CE	516	BCR	C40-C30-C25	-2.11	106.88	110.30
37	DE	408	PL9	C45-C44-C46	2.11	118.82	115.27
40	bE	621	LMT	C1-O1'-C1'	2.11	117.34	113.84
33	JL	201	CYC	CMC-C2C-C1C	-2.11	107.85	112.40
36	C1	512	CLA	O2A-CGA-O1A	-2.11	118.27	123.59
43	iD	102	BCR	C36-C18-C19	2.11	121.40	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	cD	501	LMT	C1-O1'-C1'	2.11	117.34	113.84
33	z4	201	CYC	CAD-CBD-CGD	-2.11	107.84	113.76
33	aB	201	CYC	C4A-C3A-C2A	-2.11	104.09	106.51
43	DE	407	BCR	C33-C5-C4	2.11	117.67	113.62
33	9K	201	CYC	CHB-C4A-C3A	2.11	130.32	124.90
36	b1	609	CLA	CHA-C1A-NA	-2.11	121.57	126.40
36	cD	514	CLA	CAA-C2A-C3A	-2.11	107.00	112.78
43	bE	618	BCR	C38-C26-C25	-2.11	122.16	124.53
36	BD	609	CLA	O2D-CGD-O1D	-2.11	119.72	123.84
36	cE	514	CLA	CHA-C1A-NA	-2.11	121.57	126.40
36	cE	512	CLA	C16-C15-C13	-2.11	109.11	115.92
47	ED	101	HEM	C4C-CHD-C1D	-2.11	119.78	122.56
33	jF	201	CYC	CAA-C2A-C1A	2.11	128.74	125.01
33	PL	201	CYC	CHD-C4C-NC	2.11	127.71	125.20
43	CE	520	BCR	C27-C26-C25	-2.11	119.67	122.73
36	B1	602	CLA	O2D-CGD-CBD	2.11	115.01	111.27
36	bE	611	CLA	O2D-CGD-CBD	2.11	115.01	111.27
36	D1	405	CLA	O1D-CGD-CBD	2.11	128.79	124.48
44	HE	103	DGD	C1E-O6E-C5E	2.11	117.82	113.69
43	iD	102	BCR	C35-C13-C12	2.11	121.40	118.08
36	bD	609	CLA	CHA-C1A-NA	-2.11	121.57	126.40
39	AD	408	LMG	C7-O1-C1	-2.11	109.62	113.74
43	d1	407	BCR	C33-C5-C6	-2.11	122.16	124.53
36	bE	605	CLA	O2A-CGA-O1A	-2.11	118.28	123.59
36	C1	512	CLA	O1D-CGD-CBD	2.11	128.79	124.48
33	jK	201	CYC	OB-C4B-NB	-2.11	120.18	125.08
36	AE	405	CLA	CHA-C4D-ND	2.11	136.90	132.50
33	JG	201	CYC	CMC-C2C-C1C	-2.11	107.86	112.40
36	cE	514	CLA	CAA-C2A-C3A	-2.11	107.01	112.78
36	cD	512	CLA	C16-C15-C13	-2.11	109.11	115.92
36	CE	511	CLA	O1D-CGD-CBD	2.10	128.79	124.48
36	AD	405	CLA	CHA-C4D-ND	2.10	136.90	132.50
36	bD	604	CLA	O2D-CGD-CBD	2.10	115.01	111.27
36	DD	406	CLA	O1D-CGD-CBD	2.10	128.79	124.48
36	DE	406	CLA	C11-C12-C13	-2.10	109.12	115.92
47	fD	101	HEM	C4C-CHD-C1D	-2.10	119.78	122.56
33	9F	201	CYC	CHB-C4A-C3A	2.10	130.31	124.90
36	DE	406	CLA	O1D-CGD-CBD	2.10	128.79	124.48
33	nF	201	CYC	CAA-C2A-C1A	2.10	128.73	125.01
37	dE	408	PL9	C45-C44-C46	2.10	118.81	115.27
45	DD	401	PHO	O2D-CGD-O1D	-2.10	119.72	123.84
42	aE	411	LHG	O8-C23-O10	-2.10	118.28	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	cD	511	CLA	CBA-CAA-C2A	2.10	120.07	113.86
36	CE	509	CLA	CHA-C1A-NA	-2.10	121.58	126.40
36	d1	406	CLA	C2D-C1D-ND	-2.10	108.55	110.10
36	D1	404	CLA	CHC-C1C-NC	2.10	127.39	124.20
33	SB	201	CYC	CHA-C1A-NA	-2.10	125.91	128.83
36	DD	406	CLA	C11-C12-C13	-2.10	109.12	115.92
37	d1	408	PL9	C12-C13-C14	-2.10	122.60	127.66
36	dD	406	CLA	C11-C12-C13	-2.10	109.12	115.92
33	XB	201	CYC	CMD-C2D-C3D	-2.10	120.98	124.94
36	cE	511	CLA	CBA-CAA-C2A	2.10	120.07	113.86
33	IL	201	CYC	O2A-CGA-CBA	2.10	120.78	114.03
36	HE	102	CLA	C2A-C1A-CHA	2.10	127.53	123.86
36	c1	510	CLA	CMA-C3A-C4A	-2.10	106.13	111.77
40	CD	522	LMT	C1-O1'-C1'	2.10	117.32	113.84
44	c1	516	DGD	O5D-C1E-C2E	-2.10	105.02	108.30
37	dD	408	PL9	C45-C44-C46	2.10	118.81	115.27
36	bE	604	CLA	O2D-CGD-CBD	2.10	115.00	111.27
38	CE	501	SQD	O5-C5-C4	2.10	113.51	109.69
37	DD	408	PL9	C45-C44-C46	2.10	118.80	115.27
33	OL	201	CYC	CMC-C2C-C1C	-2.10	107.88	112.40
45	A1	412	PHO	O1D-CGD-CBD	-2.10	121.24	124.74
36	bD	604	CLA	O2A-CGA-O1A	-2.10	118.29	123.59
33	zB	201	CYC	CAD-CBD-CGD	-2.10	107.87	113.76
36	A1	405	CLA	CHA-C4D-ND	2.10	136.89	132.50
36	D1	405	CLA	C11-C12-C13	-2.10	109.13	115.92
33	jK	201	CYC	CAA-C2A-C1A	2.10	128.72	125.01
36	cD	514	CLA	CHA-C1A-NA	-2.10	121.59	126.40
36	b1	608	CLA	CHC-C1C-NC	2.10	127.39	124.20
33	CB	1002	CYC	CHA-C1A-NA	-2.10	125.92	128.83
45	DE	401	PHO	O1D-CGD-CBD	-2.10	121.25	124.74
36	c1	511	CLA	CBA-CAA-C2A	2.10	120.05	113.86
45	aD	412	PHO	CMC-C2C-C3C	2.10	128.90	124.94
37	dD	408	PL9	C12-C13-C14	-2.10	122.61	127.66
33	TG	201	CYC	CAC-C3C-C2C	2.10	119.50	114.26
43	iE	102	BCR	C35-C13-C12	2.10	121.38	118.08
36	C1	504	CLA	CAA-CBA-CGA	-2.10	107.13	113.25
36	cD	513	CLA	O2D-CGD-O1D	-2.10	119.74	123.84
36	d1	406	CLA	C11-C12-C13	-2.10	109.15	115.92
36	dD	406	CLA	C2D-C1D-ND	-2.10	108.56	110.10
33	cF	201	CYC	C3A-C4A-NA	2.10	115.00	110.53
33	a4	201	CYC	CAA-C2A-C1A	2.09	128.71	125.01
36	dE	406	CLA	C11-C12-C13	-2.09	109.15	115.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	cE	512	CLA	C2D-C1D-ND	-2.09	108.56	110.10
36	C1	511	CLA	O1D-CGD-CBD	2.09	128.77	124.48
43	dD	407	BCR	C33-C5-C6	-2.09	122.18	124.53
39	A1	408	LMG	C7-O1-C1	-2.09	109.65	113.74
36	BE	607	CLA	CHA-C1A-NA	-2.09	121.60	126.40
43	iE	102	BCR	C36-C18-C19	2.09	121.38	118.08
33	v4	201	CYC	CAC-C3C-C4C	-2.09	107.30	112.67
36	CE	512	CLA	O1D-CGD-CBD	2.09	128.77	124.48
36	c1	514	CLA	C2A-C1A-CHA	2.09	127.52	123.86
36	CE	512	CLA	O2A-CGA-O1A	-2.09	118.31	123.59
36	c1	503	CLA	CHC-C1C-NC	2.09	127.38	124.20
33	1L	201	CYC	CHB-C1B-C2B	2.09	131.09	126.95
36	b1	604	CLA	O2D-CGD-CBD	2.09	114.98	111.27
36	DD	405	CLA	CHC-C1C-NC	2.09	127.38	124.20
44	cD	516	DGD	O5D-C1E-C2E	-2.09	105.04	108.30
36	CE	507	CLA	C2D-C1D-ND	-2.09	108.56	110.10
45	D1	402	PHO	C6-C5-C3	-2.09	107.97	113.45
43	B1	617	BCR	C38-C26-C25	-2.09	122.18	124.53
33	vB	201	CYC	CAC-C3C-C4C	-2.09	107.30	112.67
33	OG	201	CYC	CMC-C2C-C1C	-2.09	107.90	112.40
33	nF	201	CYC	C1A-C2A-C3A	-2.09	104.47	106.78
42	dD	410	LHG	C5-O7-C7	-2.09	112.64	117.79
33	gK	201	CYC	CHB-C1B-NB	-2.09	121.57	126.06
36	bD	612	CLA	C3A-C2A-C1A	2.09	104.47	101.34
33	bB	101	CYC	C1B-CHB-C4A	2.09	133.19	128.08
36	B1	611	CLA	C2A-C1A-CHA	2.09	127.51	123.86
36	b1	613	CLA	CAA-C2A-C3A	-2.09	107.06	112.78
44	h1	104	DGD	C1E-O6E-C5E	2.09	117.79	113.69
36	B1	603	CLA	C2A-C1A-CHA	2.09	127.51	123.86
36	b1	611	CLA	O2D-CGD-CBD	2.09	114.98	111.27
33	TL	201	CYC	CAC-C3C-C2C	2.09	119.48	114.26
36	CD	511	CLA	O1D-CGD-CBD	2.09	128.76	124.48
37	a1	409	PL9	C42-C43-C44	-2.09	122.63	127.66
47	fE	101	HEM	C4C-CHD-C1D	-2.09	119.80	122.56
37	dE	408	PL9	C12-C13-C14	-2.09	122.63	127.66
39	A1	408	LMG	C4-C3-C2	2.09	114.47	110.82
33	b4	101	CYC	C1B-CHB-C4A	2.09	133.18	128.08
33	cK	201	CYC	C3A-C4A-NA	2.09	114.98	110.53
33	aB	201	CYC	CAA-C2A-C1A	2.09	128.70	125.01
33	nK	201	CYC	CAA-C2A-C1A	2.09	128.70	125.01
33	C4	1002	CYC	CHA-C1A-NA	-2.09	125.93	128.83
33	IG	201	CYC	O2A-CGA-CBA	2.09	120.73	114.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	B4	1004	CYC	C4D-CHA-C1A	2.09	131.30	128.81
33	SB	201	CYC	CAA-C2A-C1A	2.09	128.70	125.01
43	BD	615	BCR	C37-C22-C23	2.09	121.36	118.08
36	bD	608	CLA	CHC-C1C-NC	2.09	127.37	124.20
33	s4	201	CYC	CHB-C1B-NB	-2.09	121.58	126.06
33	R4	201	CYC	OB-C4B-C3B	-2.09	125.78	128.04
36	bE	609	CLA	CHA-C1A-NA	-2.09	121.62	126.40
37	D1	407	PL9	C45-C44-C46	2.09	118.78	115.27
36	BE	606	CLA	C3C-C4C-NC	-2.09	108.23	110.57
43	bD	618	BCR	C38-C26-C25	-2.09	122.19	124.53
36	BD	607	CLA	CHA-C1A-NA	-2.09	121.62	126.40
36	bE	613	CLA	CAA-C2A-C3A	-2.09	107.06	112.78
36	B1	606	CLA	CHC-C1C-NC	2.09	127.37	124.20
37	aE	408	PL9	C42-C43-C44	-2.09	122.64	127.66
36	c1	508	CLA	C2D-C1D-ND	-2.09	108.57	110.10
43	BE	615	BCR	C37-C22-C23	2.09	121.36	118.08
42	D1	409	LHG	C5-O7-C7	-2.09	112.66	117.79
36	d1	406	CLA	O1D-CGD-CBD	2.08	128.75	124.48
40	jE	101	LMT	O5'-C1'-C2'	2.08	114.76	110.35
36	BD	606	CLA	O2A-CGA-O1A	-2.08	118.33	123.59
42	dE	410	LHG	C5-O7-C7	-2.08	112.66	117.79
45	DD	403	PHO	C6-C5-C3	-2.08	107.99	113.45
36	CD	512	CLA	O1D-CGD-CBD	2.08	128.75	124.48
36	CD	504	CLA	CAA-CBA-CGA	-2.08	107.16	113.25
43	C1	520	BCR	C27-C26-C25	-2.08	119.70	122.73
36	b1	604	CLA	O2A-CGA-O1A	-2.08	118.33	123.59
45	DE	403	PHO	C6-C5-C3	-2.08	107.99	113.45
38	CD	501	SQD	O5-C5-C4	2.08	113.48	109.69
33	gF	201	CYC	CHB-C1B-NB	-2.08	121.58	126.06
43	B1	615	BCR	C37-C22-C23	2.08	121.36	118.08
33	dF	201	CYC	CAA-C2A-C1A	2.08	128.69	125.01
36	c1	503	CLA	CMC-C2C-C1C	-2.08	121.87	125.04
39	AD	408	LMG	C4-C3-C2	2.08	114.46	110.82
36	dD	406	CLA	O1D-CGD-CBD	2.08	128.75	124.48
36	BE	614	CLA	O2D-CGD-O1D	-2.08	119.77	123.84
36	B1	606	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
36	BE	606	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
42	DE	410	LHG	C5-O7-C7	-2.08	112.67	117.79
33	S4	201	CYC	CAA-C2A-C1A	2.08	128.69	125.01
43	dE	407	BCR	C33-C5-C6	-2.08	122.19	124.53
36	cD	509	CLA	CAC-C3C-C4C	2.08	127.51	124.81
36	CE	504	CLA	CAA-CBA-CGA	-2.08	107.17	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	bD	605	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
33	sB	201	CYC	CHB-C1B-NB	-2.08	121.59	126.06
43	cE	519	BCR	C36-C18-C19	2.08	121.35	118.08
36	BE	606	CLA	CHC-C1C-NC	2.08	127.36	124.20
36	bD	613	CLA	CAA-C2A-C3A	-2.08	107.08	112.78
36	c1	509	CLA	CAC-C3C-C4C	2.08	127.51	124.81
43	D1	406	BCR	C36-C18-C19	2.08	121.35	118.08
33	mF	201	CYC	CBB-CAB-C3B	-2.08	106.70	112.43
36	CE	504	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
43	CE	520	BCR	C1-C6-C5	-2.08	119.69	122.61
36	cD	506	CLA	CHC-C1C-NC	2.08	127.36	124.20
36	dE	406	CLA	C2D-C1D-ND	-2.08	108.57	110.10
36	X1	101	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
40	jD	101	LMT	O5'-C1'-C2'	2.08	114.75	110.35
36	B1	607	CLA	CHA-C1A-NA	-2.08	121.64	126.40
36	a1	407	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
33	X4	201	CYC	CMD-C2D-C3D	-2.08	121.03	124.94
36	aE	406	CLA	C2A-C1A-CHA	2.08	127.49	123.86
36	cE	514	CLA	C2A-C1A-CHA	2.08	127.49	123.86
43	c1	519	BCR	C31-C1-C6	-2.08	106.93	110.30
37	aD	408	PL9	C42-C43-C44	-2.08	122.66	127.66
36	BD	606	CLA	CHC-C1C-NC	2.08	127.35	124.20
36	bE	608	CLA	CHC-C1C-NC	2.08	127.35	124.20
33	QL	201	CYC	CHB-C1B-NB	-2.08	121.60	126.06
36	B1	614	CLA	O2D-CGD-O1D	-2.08	119.78	123.84
42	a1	412	LHG	O8-C23-O10	-2.08	118.35	123.59
33	4L	201	CYC	C3A-C4A-NA	2.08	114.96	110.53
44	cE	516	DGD	O5D-C1E-C2E	-2.08	105.06	108.30
36	B1	608	CLA	CHD-C1D-ND	-2.08	122.55	124.45
36	BD	614	CLA	O2D-CGD-O1D	-2.08	119.78	123.84
33	2L	101	CYC	CAD-CBD-CGD	-2.07	107.94	113.76
38	C1	501	SQD	O5-C5-C4	2.07	113.46	109.69
33	mK	201	CYC	CBB-CAB-C3B	-2.07	106.71	112.43
36	CD	503	CLA	C2D-C1D-ND	-2.07	108.58	110.10
36	bE	612	CLA	C3A-C2A-C1A	2.07	104.45	101.34
36	CE	508	CLA	O2A-CGA-O1A	-2.07	118.36	123.59
42	aD	411	LHG	O8-C23-O10	-2.07	118.36	123.59
33	S4	201	CYC	CAD-CBD-CGD	-2.07	107.94	113.76
43	BE	617	BCR	C38-C26-C25	-2.07	122.20	124.53
36	BD	611	CLA	C2A-C1A-CHA	2.07	127.48	123.86
37	dD	408	PL9	C35-C34-C36	2.07	118.76	115.27
47	E1	101	HEM	C4C-CHD-C1D	-2.07	119.82	122.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BD	603	CLA	C2A-C1A-CHA	2.07	127.48	123.86
36	aD	406	CLA	C2A-C1A-CHA	2.07	127.48	123.86
33	2G	101	CYC	CAD-CBD-CGD	-2.07	107.95	113.76
39	tE	101	LMG	C7-O1-C1	-2.07	109.69	113.74
33	BB	1001	CYC	C1B-CHB-C4A	2.07	133.15	128.08
42	d1	410	LHG	C5-O7-C7	-2.07	112.69	117.79
33	qB	201	CYC	O2A-CGA-CBA	2.07	120.69	114.03
36	B1	603	CLA	O2A-CGA-O1A	-2.07	118.36	123.59
43	c1	519	BCR	C36-C18-C19	2.07	121.34	118.08
40	j1	101	LMT	O5'-C1'-C2'	2.07	114.73	110.35
33	B4	1001	CYC	C1B-CHB-C4A	2.07	133.14	128.08
36	XD	101	CLA	O2A-CGA-O1A	-2.07	118.36	123.59
36	cD	504	CLA	CMC-C2C-C1C	-2.07	121.88	125.04
45	DD	401	PHO	C11-C10-C8	2.07	122.61	115.92
43	cD	519	BCR	C31-C1-C6	-2.07	106.94	110.30
37	d1	408	PL9	C35-C34-C36	2.07	118.75	115.27
36	cE	506	CLA	CHC-C1C-NC	2.07	127.34	124.20
33	4G	201	CYC	C3A-C4A-NA	2.07	114.95	110.53
36	B1	611	CLA	C3A-C2A-C1A	2.07	104.44	101.34
39	AE	408	LMG	C4-C3-C2	2.07	114.44	110.82
33	q4	201	CYC	O2A-CGA-CBA	2.07	120.68	114.03
36	CD	508	CLA	O2A-CGA-O1A	-2.07	118.37	123.59
33	z4	201	CYC	C1A-NA-C4A	-2.07	102.61	106.51
36	C1	510	CLA	O1D-CGD-CBD	2.07	128.72	124.48
43	cD	519	BCR	C36-C18-C19	2.07	121.34	118.08
36	BD	603	CLA	O2A-CGA-O1A	-2.07	118.37	123.59
36	BE	602	CLA	O2A-CGA-O1A	-2.07	118.37	123.59
42	DD	410	LHG	C5-O7-C7	-2.07	112.70	117.79
38	cE	502	SQD	C1-O5-C5	2.07	117.75	113.69
33	zB	201	CYC	C1A-NA-C4A	-2.07	102.61	106.51
44	h1	104	DGD	C2G-O2G-C1B	-2.07	112.70	117.79
43	zE	101	BCR	C30-C25-C24	2.07	121.63	115.78
33	hK	201	CYC	CAA-C2A-C1A	2.07	128.67	125.01
45	d1	402	PHO	C9-C8-C10	2.07	118.78	111.29
36	BE	611	CLA	C2A-C1A-CHA	2.07	127.47	123.86
36	cD	514	CLA	C2A-C1A-CHA	2.07	127.47	123.86
36	XE	101	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
36	aD	406	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
45	A1	412	PHO	CMC-C2C-C3C	2.07	128.84	124.94
39	t1	101	LMG	C7-O1-C1	-2.07	109.70	113.74
43	BD	617	BCR	C38-C26-C25	-2.07	122.21	124.53
44	hD	104	DGD	C1E-O6E-C5E	2.07	117.75	113.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	IE	102	BCR	C10-C11-C12	-2.07	116.77	123.22
44	hD	104	DGD	C2G-O2G-C1B	-2.07	112.70	117.79
36	C1	508	CLA	C2A-C1A-CHA	2.07	127.47	123.86
36	BD	606	CLA	C3C-C4C-NC	-2.07	108.25	110.57
43	bD	616	BCR	C37-C22-C23	2.07	121.33	118.08
36	CE	510	CLA	O1D-CGD-CBD	2.07	128.71	124.48
40	C1	521	LMT	O1'-C1'-C2'	2.07	111.53	108.30
33	jF	201	CYC	CAA-CBA-CGA	-2.07	109.16	113.60
36	BE	603	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
36	cE	509	CLA	CAC-C3C-C4C	2.07	127.49	124.81
36	CD	512	CLA	CBA-CAA-C2A	2.07	119.96	113.86
39	tD	101	LMG	C7-O1-C1	-2.07	109.70	113.74
43	I1	102	BCR	C10-C11-C12	-2.07	116.77	123.22
36	BD	602	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
33	6G	201	CYC	CHB-C4A-C3A	2.06	130.21	124.90
43	cE	519	BCR	C31-C1-C6	-2.06	106.95	110.30
47	ED	101	HEM	CHB-C1B-NB	2.06	126.93	124.38
33	B4	1002	CYC	C4D-CHA-C1A	2.06	131.28	128.81
47	f1	101	HEM	CHB-C1B-NB	2.06	126.93	124.38
43	zD	101	BCR	C30-C25-C24	2.06	121.62	115.78
36	b1	605	CLA	O2A-CGA-O1A	-2.06	118.38	123.59
37	dE	408	PL9	C35-C34-C36	2.06	118.74	115.27
43	bE	616	BCR	C37-C22-C23	2.06	121.33	118.08
33	7L	201	CYC	CAC-C3C-C4C	-2.06	107.38	112.67
36	CE	512	CLA	CBA-CAA-C2A	2.06	119.95	113.86
36	CD	510	CLA	O1D-CGD-CBD	2.06	128.71	124.48
36	a1	407	CLA	C2A-C1A-CHA	2.06	127.47	123.86
39	A1	408	LMG	O6-C5-C6	2.06	111.56	106.44
33	dK	201	CYC	CAA-C2A-C1A	2.06	128.66	125.01
36	B1	612	CLA	C16-C15-C13	-2.06	109.25	115.92
36	dE	406	CLA	O1D-CGD-CBD	2.06	128.70	124.48
37	A1	406	PL9	C25-C24-C23	-2.06	118.39	123.68
36	bD	603	CLA	CAC-C3C-C4C	2.06	127.48	124.81
36	C1	508	CLA	C4D-CHA-C1A	2.06	123.76	121.25
43	d1	407	BCR	C36-C18-C19	2.06	121.33	118.08
36	cD	504	CLA	CHC-C1C-NC	2.06	127.33	124.20
36	bD	605	CLA	C2A-C1A-CHA	2.06	127.46	123.86
39	T1	101	LMG	C7-O1-C1	-2.06	109.71	113.74
33	6L	201	CYC	CHB-C4A-C3A	2.06	130.20	124.90
33	RB	201	CYC	OB-C4B-C3B	-2.06	125.81	128.04
36	C1	508	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
36	aE	406	CLA	O2A-CGA-O1A	-2.06	118.39	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	SB	201	CYC	CAD-CBD-CGD	-2.06	107.98	113.76
36	B1	612	CLA	CAA-C2A-C3A	-2.06	107.14	112.78
43	ID	102	BCR	C10-C11-C12	-2.06	116.79	123.22
36	B1	602	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
36	C1	512	CLA	CBA-CAA-C2A	2.06	119.94	113.86
39	TD	101	LMG	C7-O1-C1	-2.06	109.72	113.74
43	DD	407	BCR	C36-C18-C19	2.06	121.32	118.08
33	7G	201	CYC	CAC-C3C-C4C	-2.06	107.39	112.67
37	DE	408	PL9	C35-C34-C36	2.06	118.73	115.27
36	BE	612	CLA	C16-C15-C13	-2.06	109.27	115.92
45	aE	412	PHO	C7-C6-C5	-2.06	107.77	113.36
39	a1	410	LMG	C4-C3-C2	2.06	114.42	110.82
47	fE	101	HEM	CHB-C1B-NB	2.06	126.92	124.38
33	nK	201	CYC	C1A-C2A-C3A	-2.06	104.51	106.78
38	LE	102	SQD	O47-C7-O49	-2.06	118.73	123.70
33	PG	201	CYC	CHD-C4C-NC	2.06	127.65	125.20
45	aD	412	PHO	C11-C12-C13	2.06	122.57	115.92
36	cE	504	CLA	CMC-C2C-C1C	-2.06	121.91	125.04
45	DE	401	PHO	CMC-C2C-C3C	2.06	128.82	124.94
43	b1	616	BCR	C37-C22-C23	2.06	121.32	118.08
36	c1	512	CLA	O2D-CGD-O1D	-2.06	119.82	123.84
36	CD	508	CLA	C2A-C1A-CHA	2.06	127.45	123.86
39	AD	408	LMG	O6-C5-C6	2.06	111.55	106.44
33	ZB	201	CYC	C1A-C2A-C3A	-2.06	104.51	106.78
36	b1	603	CLA	CAC-C3C-C4C	2.06	127.48	124.81
37	AE	406	PL9	C25-C24-C23	-2.06	118.41	123.68
36	c1	505	CLA	CHC-C1C-NC	2.06	127.32	124.20
36	BD	612	CLA	C16-C15-C13	-2.05	109.28	115.92
40	B1	620	LMT	O1'-C1'-C2'	2.05	111.51	108.30
33	aF	201	CYC	CAD-CBD-CGD	-2.05	108.00	113.76
36	B1	611	CLA	O2A-CGA-O1A	-2.05	118.41	123.59
36	C1	504	CLA	O2A-CGA-O1A	-2.05	118.41	123.59
33	BB	1001	CYC	CHA-C1A-C2A	-2.05	120.58	125.32
40	cE	501	LMT	O1'-C1'-C2'	2.05	111.51	108.30
36	cE	513	CLA	O2D-CGD-O1D	-2.05	119.82	123.84
33	VG	201	CYC	CBB-CAB-C3B	-2.05	106.77	112.43
36	BE	603	CLA	C2A-C1A-CHA	2.05	127.45	123.86
36	BD	611	CLA	C3A-C2A-C1A	2.05	104.42	101.34
33	hF	201	CYC	CAA-C2A-C1A	2.05	128.64	125.01
36	C1	508	CLA	CHA-C1A-NA	-2.05	121.69	126.40
36	BD	608	CLA	CHD-C1D-ND	-2.05	122.57	124.45
36	dD	403	CLA	CHD-C1D-ND	-2.05	122.57	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	CD	504	CLA	O2A-CGA-O1A	-2.05	118.41	123.59
36	b1	612	CLA	C3A-C2A-C1A	2.05	104.41	101.34
40	cD	501	LMT	O1'-C1'-C2'	2.05	111.51	108.30
40	CD	522	LMT	O1'-C1'-C2'	2.05	111.51	108.30
37	AD	406	PL9	C25-C24-C23	-2.05	118.41	123.68
36	b1	605	CLA	C2A-C1A-CHA	2.05	127.45	123.86
47	EE	101	HEM	CHB-C1B-NB	2.05	126.92	124.38
43	BE	616	BCR	C33-C5-C6	-2.05	122.22	124.53
36	cD	508	CLA	C2D-C1D-ND	-2.05	108.59	110.10
44	hE	104	DGD	C2G-O2G-C1B	-2.05	112.74	117.79
39	AE	408	LMG	O6-C5-C6	2.05	111.53	106.44
36	bD	608	CLA	O2A-CGA-O1A	-2.05	118.42	123.59
36	bE	610	CLA	C2D-C1D-ND	-2.05	108.59	110.10
37	DD	408	PL9	C35-C34-C36	2.05	118.72	115.27
33	jK	201	CYC	CAA-CBA-CGA	-2.05	109.19	113.60
33	QG	201	CYC	CHB-C1B-NB	-2.05	121.66	126.06
36	bE	612	CLA	C3C-C4C-NC	-2.05	108.27	110.57
36	BD	612	CLA	CAA-C2A-C3A	-2.05	107.17	112.78
36	H1	102	CLA	C1D-ND-C4D	2.05	107.79	106.33
36	bD	612	CLA	C2A-C1A-CHA	2.05	127.44	123.86
36	BE	611	CLA	C3A-C2A-C1A	2.05	104.41	101.34
43	Z1	101	BCR	C23-C22-C21	2.05	122.08	118.94
36	BE	611	CLA	O2A-CGA-O1A	-2.05	118.42	123.59
36	bE	608	CLA	O2A-CGA-O1A	-2.05	118.42	123.59
38	cD	502	SQD	C1-O5-C5	2.05	117.71	113.69
36	bD	610	CLA	C2D-C1D-ND	-2.05	108.59	110.10
43	z1	101	BCR	C30-C25-C24	2.05	121.57	115.78
44	hE	104	DGD	C1E-O6E-C5E	2.05	117.71	113.69
36	BE	612	CLA	CAA-C2A-C3A	-2.05	107.17	112.78
33	RB	201	CYC	C2C-C1C-NC	2.05	110.04	108.27
33	YF	201	CYC	CAA-C2A-C1A	2.05	128.63	125.01
36	bE	603	CLA	CAC-C3C-C4C	2.05	127.47	124.81
33	Z4	201	CYC	C1A-C2A-C3A	-2.05	104.52	106.78
39	C1	502	LMG	O8-C28-C29	2.05	118.33	111.91
36	bE	613	CLA	C16-C15-C13	-2.05	109.31	115.92
33	C4	1003	CYC	C4D-CHA-C1A	2.05	131.25	128.81
39	aE	409	LMG	C4-C3-C2	2.05	114.39	110.82
39	TE	101	LMG	C7-O1-C1	-2.05	109.74	113.74
36	CE	507	CLA	CAA-CBA-CGA	2.05	119.23	113.25
33	5L	201	CYC	CBB-CAB-C3B	-2.04	106.79	112.43
36	a1	407	CLA	CHD-C1D-ND	-2.04	122.58	124.45
36	cD	508	CLA	CHA-C4D-ND	2.04	136.78	132.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	CD	502	LMG	O8-C28-C29	2.04	118.32	111.91
43	CD	520	BCR	C1-C6-C5	-2.04	119.73	122.61
36	CD	508	CLA	CHA-C1A-NA	-2.04	121.72	126.40
43	DE	407	BCR	C36-C18-C19	2.04	121.30	118.08
33	BB	1002	CYC	C4D-CHA-C1A	2.04	131.25	128.81
36	cE	508	CLA	CHA-C4D-ND	2.04	136.78	132.50
33	b4	101	CYC	CBB-CAB-C3B	-2.04	106.80	112.43
36	bD	613	CLA	C16-C15-C13	-2.04	109.31	115.92
33	jK	201	CYC	C1A-C2A-C3A	-2.04	104.52	106.78
33	5G	201	CYC	CBB-CAB-C3B	-2.04	106.80	112.43
36	c1	507	CLA	C2A-C1A-CHA	2.04	127.43	123.86
36	b1	611	CLA	CAA-C2A-C3A	-2.04	107.18	112.78
36	B1	607	CLA	C1D-ND-C4D	2.04	107.79	106.33
38	L1	101	SQD	O47-C7-O49	-2.04	118.77	123.70
36	xE	101	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
39	CE	502	LMG	O8-C28-C29	2.04	118.32	111.91
38	LD	102	SQD	O47-C7-O49	-2.04	118.77	123.70
33	VL	201	CYC	CBB-CAB-C3B	-2.04	106.80	112.43
36	bE	612	CLA	C2A-C1A-CHA	2.04	127.43	123.86
36	b1	613	CLA	C16-C15-C13	-2.04	109.32	115.92
43	ZD	101	BCR	C30-C25-C24	2.04	121.55	115.78
38	C1	501	SQD	C4-C3-C2	2.04	114.39	110.82
43	B1	616	BCR	C33-C5-C6	-2.04	122.24	124.53
36	BD	611	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
33	r4	201	CYC	C4A-C3A-C2A	-2.04	104.17	106.51
37	D1	407	PL9	C35-C34-C36	2.04	118.70	115.27
36	b1	608	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
36	c1	508	CLA	CHA-C4D-ND	2.04	136.76	132.50
43	BD	616	BCR	C33-C5-C6	-2.04	122.24	124.53
36	cE	504	CLA	CHC-C1C-NC	2.04	127.30	124.20
39	aD	409	LMG	C4-C3-C2	2.04	114.38	110.82
40	D1	411	LMT	C3'-C4'-C5'	-2.04	106.25	110.93
45	dE	402	PHO	O2D-CGD-O1D	-2.04	119.85	123.84
38	CD	501	SQD	C4-C3-C2	2.04	114.38	110.82
38	L1	102	SQD	O47-C7-O49	-2.04	118.78	123.70
36	C1	507	CLA	CAA-CBA-CGA	2.04	119.21	113.25
36	bE	605	CLA	C2A-C1A-CHA	2.04	127.42	123.86
36	b1	612	CLA	O2A-CGA-O1A	-2.04	118.45	123.59
36	xD	101	CLA	O2A-CGA-O1A	-2.04	118.45	123.59
36	BD	610	CLA	CAA-C2A-C3A	-2.04	107.20	112.78
36	b1	612	CLA	C2A-C1A-CHA	2.04	127.42	123.86
33	aK	201	CYC	CAD-CBD-CGD	-2.04	108.05	113.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	kD	102	BCR	C38-C26-C25	-2.04	122.24	124.53
36	bD	611	CLA	CAA-C2A-C3A	-2.04	107.20	112.78
38	CE	501	SQD	C4-C3-C2	2.04	114.38	110.82
33	B4	1001	CYC	CHA-C1A-C2A	-2.04	120.62	125.32
36	CD	507	CLA	CAA-CBA-CGA	2.04	119.20	113.25
39	D1	410	LMG	O8-C28-O10	-2.04	118.45	123.59
40	DE	404	LMT	C3'-C4'-C5'	-2.04	106.61	110.24
40	bE	621	LMT	O1'-C1'-C2'	2.04	111.48	108.30
33	zB	201	CYC	CBC-CAC-C3C	-2.04	108.94	113.47
33	rB	201	CYC	C4A-C3A-C2A	-2.04	104.17	106.51
36	CE	508	CLA	CHA-C1A-NA	-2.04	121.74	126.40
36	aD	406	CLA	CHD-C1D-ND	-2.03	122.58	124.45
38	c1	501	SQD	C1-O5-C5	2.03	117.68	113.69
33	IF	201	CYC	O2A-CGA-CBA	2.03	120.57	114.03
36	bD	612	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
36	cD	512	CLA	O2D-CGD-O1D	-2.03	119.86	123.84
36	BE	604	CLA	CHC-C1C-NC	2.03	127.29	124.20
43	Z1	101	BCR	C30-C25-C24	2.03	121.53	115.78
43	dE	407	BCR	C36-C18-C19	2.03	121.28	118.08
36	aD	405	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
40	dD	404	LMT	C4'-C3'-C2'	2.03	114.37	110.82
36	b1	606	CLA	CHC-C1C-NC	2.03	127.29	124.20
36	BE	607	CLA	CHA-C4D-ND	2.03	136.75	132.50
36	BD	607	CLA	C1D-ND-C4D	2.03	107.78	106.33
36	BE	610	CLA	CAA-C2A-C3A	-2.03	107.21	112.78
33	TB	201	CYC	C2C-C1C-NC	2.03	110.03	108.27
43	X1	102	BCR	C36-C18-C17	-2.03	120.08	122.92
40	dE	412	LMT	C3'-C4'-C5'	-2.03	106.27	110.93
36	bD	614	CLA	O2D-CGD-CBD	2.03	114.88	111.27
33	WG	201	CYC	CMB-C2B-C1B	2.03	126.70	124.17
39	DE	411	LMG	O8-C28-O10	-2.03	118.47	123.59
33	QB	201	CYC	CHD-C4C-NC	2.03	127.62	125.20
38	LD	101	SQD	O47-C7-O49	-2.03	118.80	123.70
38	CE	501	SQD	O48-C23-O10	-2.03	118.47	123.59
33	YK	201	CYC	CAA-C2A-C1A	2.03	128.60	125.01
36	b1	609	CLA	C1D-ND-C4D	2.03	107.78	106.33
33	IK	201	CYC	O2A-CGA-CBA	2.03	120.55	114.03
33	B4	1001	CYC	CBC-CAC-C3C	2.03	117.99	113.47
36	aE	406	CLA	O2D-CGD-CBD	2.03	114.87	111.27
43	ZE	101	BCR	C30-C25-C24	2.03	121.52	115.78
36	bE	611	CLA	CAA-C2A-C3A	-2.03	107.22	112.78
33	CB	1003	CYC	C4D-CHA-C1A	2.03	131.23	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BE	607	CLA	C1D-ND-C4D	2.03	107.78	106.33
33	bB	101	CYC	CBB-CAB-C3B	-2.03	106.84	112.43
40	d1	412	LMT	C3'-C4'-C5'	-2.03	106.28	110.93
40	dE	404	LMT	C4'-C3'-C2'	2.03	114.36	110.82
33	jF	201	CYC	C1A-C2A-C3A	-2.03	104.54	106.78
36	a1	406	CLA	O2A-CGA-O1A	-2.03	118.47	123.59
39	DD	411	LMG	O8-C28-O10	-2.03	118.48	123.59
47	f1	101	HEM	O2A-CGA-CBA	2.03	120.54	114.03
36	BD	604	CLA	CHC-C1C-NC	2.03	127.28	124.20
36	BD	609	CLA	C2D-C1D-ND	-2.03	108.61	110.10
36	x1	101	CLA	O2A-CGA-O1A	-2.03	118.48	123.59
47	fE	101	HEM	O2A-CGA-CBA	2.03	120.54	114.03
36	CE	508	CLA	C2A-C1A-CHA	2.03	127.40	123.86
33	sB	201	CYC	CAC-C3C-C2C	2.03	119.32	114.26
37	D1	407	PL9	C12-C11-C9	-2.03	106.31	112.98
38	C1	501	SQD	O48-C23-O10	-2.03	118.48	123.59
43	I1	102	BCR	C40-C30-C25	-2.03	107.01	110.30
36	b1	612	CLA	C3C-C4C-NC	-2.02	108.30	110.57
37	dE	408	PL9	C12-C11-C9	-2.02	106.32	112.98
36	c1	502	CLA	C11-C12-C13	-2.02	109.37	115.92
36	B1	609	CLA	C2D-C1D-ND	-2.02	108.61	110.10
43	C1	520	BCR	C1-C6-C5	-2.02	119.76	122.61
36	B1	610	CLA	CAA-C2A-C3A	-2.02	107.23	112.78
33	WB	201	CYC	CAC-C3C-C2C	2.02	119.32	114.26
47	fD	101	HEM	CHB-C1B-NB	2.02	126.88	124.38
36	a1	407	CLA	O2D-CGD-CBD	2.02	114.86	111.27
33	W4	201	CYC	CAC-C3C-C2C	2.02	119.32	114.26
36	BD	607	CLA	CHA-C4D-ND	2.02	136.73	132.50
36	aE	405	CLA	O2A-CGA-O1A	-2.02	118.48	123.59
37	dE	408	PL9	C37-C36-C34	-2.02	106.32	112.98
36	bE	612	CLA	O2A-CGA-O1A	-2.02	118.49	123.59
36	DD	406	CLA	CMA-C3A-C2A	-2.02	105.67	113.83
37	dD	408	PL9	C12-C11-C9	-2.02	106.32	112.98
33	JG	201	CYC	CAC-C3C-C4C	-2.02	107.48	112.67
36	D1	405	CLA	CMA-C3A-C2A	-2.02	105.67	113.83
37	DE	408	PL9	C37-C36-C34	-2.02	106.32	112.98
37	d1	408	PL9	C37-C36-C34	-2.02	106.32	112.98
36	bD	606	CLA	CHC-C1C-NC	2.02	127.27	124.20
36	CD	508	CLA	C4D-CHA-C1A	2.02	123.71	121.25
43	ZD	101	BCR	C23-C22-C21	2.02	122.04	118.94
36	b1	614	CLA	O2D-CGD-CBD	2.02	114.86	111.27
33	r4	201	CYC	CHD-C4C-NC	2.02	127.61	125.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	IF	201	CYC	CBC-CAC-C3C	2.02	117.97	113.47
36	bD	612	CLA	C3C-C4C-NC	-2.02	108.30	110.57
36	aD	406	CLA	O2D-CGD-CBD	2.02	114.86	111.27
36	bD	609	CLA	CHA-C4D-ND	2.02	136.73	132.50
37	dD	408	PL9	C37-C36-C34	-2.02	106.33	112.98
36	BE	609	CLA	C2D-C1D-ND	-2.02	108.61	110.10
33	Q4	201	CYC	CHD-C4C-NC	2.02	127.61	125.20
36	bD	609	CLA	C1D-ND-C4D	2.02	107.77	106.33
36	BE	605	CLA	O2A-CGA-O1A	-2.02	118.49	123.59
40	DD	404	LMT	C3'-C4'-C5'	-2.02	106.64	110.24
33	BB	1001	CYC	CBC-CAC-C3C	2.02	117.96	113.47
33	IK	201	CYC	CBC-CAC-C3C	2.02	117.96	113.47
43	kE	102	BCR	C38-C26-C25	-2.02	122.26	124.53
38	LE	101	SQD	O47-C7-O49	-2.02	118.82	123.70
36	bE	607	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
40	dD	412	LMT	C3'-C4'-C5'	-2.02	106.30	110.93
36	DE	406	CLA	CMA-C3A-C2A	-2.02	105.68	113.83
36	b1	609	CLA	CHA-C4D-ND	2.02	136.72	132.50
37	d1	408	PL9	C12-C11-C9	-2.02	106.33	112.98
40	DD	412	LMT	C3'-C4'-C5'	-2.02	106.30	110.93
33	BI	301	CYC	OB-C4B-NB	-2.02	120.39	125.08
33	BB	1003	CYC	CAD-CBD-CGD	-2.02	108.10	113.76
36	cE	512	CLA	O2D-CGD-O1D	-2.02	119.89	123.84
36	hD	102	CLA	C1D-ND-C4D	2.02	107.77	106.33
45	DD	401	PHO	C14-C13-C12	2.02	118.60	111.29
43	XD	102	BCR	C36-C18-C17	-2.02	120.10	122.92
39	CD	519	LMG	O8-C28-O10	-2.02	118.50	123.59
33	S4	201	CYC	C2C-C1C-NC	2.02	110.01	108.27
36	hE	102	CLA	C1D-ND-C4D	2.02	107.77	106.33
39	B1	618	LMG	C8-O7-C10	-2.02	112.83	117.79
36	B1	613	CLA	O2D-CGD-CBD	2.02	114.85	111.27
37	DD	408	PL9	C12-C11-C9	-2.02	106.34	112.98
36	cD	507	CLA	C2A-C1A-CHA	2.02	127.39	123.86
36	cE	508	CLA	C2D-C1D-ND	-2.02	108.62	110.10
39	d1	411	LMG	O8-C28-O10	-2.02	118.50	123.59
33	ZK	201	CYC	CBD-CAD-C3D	-2.02	109.18	112.62
47	E1	101	HEM	CHB-C1B-NB	2.02	126.87	124.38
39	dD	411	LMG	O8-C28-O10	-2.02	118.50	123.59
36	BE	610	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
45	DD	401	PHO	O1D-CGD-CBD	-2.02	121.38	124.74
47	E1	101	HEM	O2A-CGA-CBA	2.02	120.50	114.03
37	DE	408	PL9	C12-C11-C9	-2.01	106.35	112.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	b1	607	CLA	O2A-CGA-O1A	-2.01	118.51	123.59
43	ID	102	BCR	C40-C30-C25	-2.01	107.03	110.30
47	fD	101	HEM	O2A-CGA-CBA	2.01	120.50	114.03
36	cE	507	CLA	C2A-C1A-CHA	2.01	127.38	123.86
40	DE	412	LMT	C3'-C4'-C5'	-2.01	106.31	110.93
33	Z4	201	CYC	C1B-CHB-C4A	-2.01	123.16	128.08
36	BD	610	CLA	O2A-CGA-O1A	-2.01	118.51	123.59
43	ZE	101	BCR	C23-C22-C21	2.01	122.03	118.94
36	c1	513	CLA	C2A-C1A-CHA	2.01	127.38	123.86
36	bE	614	CLA	O2D-CGD-CBD	2.01	114.85	111.27
36	BD	605	CLA	O2A-CGA-O1A	-2.01	118.51	123.59
39	dE	411	LMG	O8-C28-O10	-2.01	118.51	123.59
36	cE	513	CLA	C2A-C1A-CHA	2.01	127.38	123.86
36	B1	607	CLA	CHA-C4D-ND	2.01	136.71	132.50
43	bE	617	BCR	C33-C5-C6	-2.01	122.27	124.53
33	B2	301	CYC	OB-C4B-NB	-2.01	120.40	125.08
33	2G	101	CYC	CAC-C3C-C4C	2.01	117.84	112.67
36	B1	610	CLA	O2A-CGA-O1A	-2.01	118.51	123.59
36	CD	513	CLA	CHD-C1D-ND	-2.01	122.60	124.45
36	BE	608	CLA	CHD-C1D-ND	-2.01	122.60	124.45
33	JL	201	CYC	CAC-C3C-C4C	-2.01	107.50	112.67
36	HE	102	CLA	C1D-ND-C4D	2.01	107.77	106.33
33	B6	301	CYC	OB-C4B-NB	-2.01	120.40	125.08
43	CD	521	BCR	C38-C26-C25	-2.01	122.27	124.53
36	bE	609	CLA	CHA-C4D-ND	2.01	136.71	132.50
37	DD	408	PL9	C37-C36-C34	-2.01	106.36	112.98
36	cD	503	CLA	C11-C12-C13	-2.01	109.42	115.92
36	cE	512	CLA	C1B-CHB-C4A	-2.01	126.13	130.12
33	ZF	201	CYC	CBD-CAD-C3D	-2.01	109.19	112.62
43	Z1	102	BCR	C38-C26-C25	-2.01	122.27	124.53
43	bD	617	BCR	C33-C5-C6	-2.01	122.27	124.53
43	dD	407	BCR	C36-C18-C19	2.01	121.25	118.08
36	cE	503	CLA	C11-C12-C13	-2.01	109.42	115.92
43	c1	515	BCR	C1-C6-C7	2.01	121.47	115.78
33	s4	201	CYC	CAC-C3C-C2C	2.01	119.28	114.26
33	B4	1003	CYC	CAD-CBD-CGD	-2.01	108.12	113.76
33	ZB	201	CYC	C1B-CHB-C4A	-2.01	123.17	128.08
36	bD	607	CLA	O2A-CGA-O1A	-2.01	118.52	123.59
36	bD	611	CLA	C1-C2-C3	-2.01	122.57	126.04
36	x1	101	CLA	CHA-C1A-NA	-2.01	121.79	126.40
33	JF	201	CYC	C1B-CHB-C4A	2.01	132.99	128.08
38	CD	501	SQD	O48-C23-O10	-2.01	118.52	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	CE	519	LMG	O8-C28-O10	-2.01	118.52	123.59
36	cD	513	CLA	C2A-C1A-CHA	2.01	127.37	123.86
36	XD	101	CLA	CAA-C2A-C3A	-2.01	107.28	112.78
40	d1	404	LMT	C4'-C3'-C2'	2.01	114.33	110.82
43	bD	618	BCR	C38-C26-C27	2.01	117.48	113.62
45	d1	402	PHO	CGD-CBD-CAD	-2.01	104.23	110.73
33	z4	201	CYC	CBC-CAC-C3C	-2.01	109.00	113.47
39	C1	519	LMG	O8-C28-O10	-2.01	118.52	123.59
43	zD	101	BCR	C23-C22-C21	2.01	122.02	118.94
39	y1	101	LMG	O8-C28-O10	-2.01	118.52	123.59
45	DD	403	PHO	O2A-CGA-CBA	2.01	118.21	111.91
33	LG	201	CYC	O1A-CGA-CBA	-2.01	116.63	123.08
33	T4	201	CYC	C2C-C1C-NC	2.01	110.00	108.27
33	dK	201	CYC	CAA-CBA-CGA	2.01	117.92	113.60
43	cE	515	BCR	C1-C6-C7	2.01	121.46	115.78
36	dE	403	CLA	CHD-C1D-ND	-2.01	122.61	124.45
33	AG	201	CYC	OB-C4B-NB	-2.01	120.41	125.08
36	c1	506	CLA	O2D-CGD-CBD	2.01	114.83	111.27
36	dD	406	CLA	CMA-C3A-C2A	-2.01	105.73	113.83
33	IL	201	CYC	CBA-CAA-C2A	-2.01	107.05	112.63
36	B1	604	CLA	CHC-C1C-NC	2.01	127.25	124.20
36	bE	611	CLA	C1-C2-C3	-2.01	122.57	126.04
36	cE	509	CLA	C1-C2-C3	-2.01	122.57	126.04
33	B4	1004	CYC	CAA-C2A-C1A	2.01	128.56	125.01
36	aE	406	CLA	CHD-C1D-ND	-2.01	122.61	124.45
47	ED	101	HEM	O2A-CGA-CBA	2.01	120.47	114.03
45	D1	402	PHO	O2A-CGA-CBA	2.01	118.20	111.91
43	IE	102	BCR	C40-C30-C25	-2.00	107.05	110.30
36	BD	610	CLA	C1-C2-C3	-2.00	122.58	126.04
36	HD	102	CLA	C1D-ND-C4D	2.00	107.76	106.33
36	iD	101	CLA	O2D-CGD-CBD	2.00	114.83	111.27
43	dD	407	BCR	C1-C6-C7	2.00	121.45	115.78
43	dE	407	BCR	C1-C6-C7	2.00	121.45	115.78
39	yD	101	LMG	O8-C28-O10	-2.00	118.53	123.59
36	XE	101	CLA	CAA-C2A-C3A	-2.00	107.29	112.78
33	g5	202	CYC	OB-C4B-NB	-2.00	120.42	125.08
36	b1	603	CLA	CHD-C1D-ND	-2.00	122.61	124.45
36	d1	406	CLA	CMA-C3A-C2A	-2.00	105.75	113.83
33	2L	101	CYC	CAC-C3C-C4C	2.00	117.82	112.67
39	j1	102	LMG	C9-C8-C7	-2.00	107.05	111.79
33	TG	201	CYC	CAD-CBD-CGD	-2.00	108.14	113.76
33	BC	301	CYC	OB-C4B-NB	-2.00	120.42	125.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	AL	201	CYC	OB-C4B-NB	-2.00	120.42	125.08
36	b1	611	CLA	C1-C2-C3	-2.00	122.58	126.04
43	ZE	102	BCR	C38-C26-C25	-2.00	122.28	124.53
36	B1	605	CLA	O2A-CGA-O1A	-2.00	118.54	123.59
36	dE	406	CLA	CMA-C3A-C2A	-2.00	105.75	113.83
36	BD	613	CLA	O2D-CGD-CBD	2.00	114.83	111.27
36	C1	513	CLA	CHD-C1D-ND	-2.00	122.61	124.45
43	DD	407	BCR	C1-C6-C7	2.00	121.44	115.78
33	XK	201	CYC	OB-C4B-C3B	-2.00	125.87	128.04
39	jE	102	LMG	C9-C8-C7	-2.00	107.05	111.79
40	dD	404	LMT	C3'-C4'-C5'	-2.00	106.67	110.24
33	g8	202	CYC	OB-C4B-NB	-2.00	120.43	125.08
36	bE	606	CLA	CHC-C1C-NC	2.00	127.24	124.20
33	BB	1004	CYC	CAA-C2A-C1A	2.00	128.55	125.01
36	BE	604	CLA	CAC-C3C-C4C	2.00	127.41	124.81
33	dF	201	CYC	CAA-CBA-CGA	2.00	117.91	113.60
36	cD	509	CLA	C1-C2-C3	-2.00	122.58	126.04
37	D1	407	PL9	C37-C36-C34	-2.00	106.39	112.98
33	gH	202	CYC	OB-C4B-NB	-2.00	120.43	125.08
36	hE	101	CLA	CHA-C1A-NA	-2.00	121.82	126.40
36	BE	610	CLA	C1-C2-C3	-2.00	122.58	126.04
33	WL	201	CYC	CMB-C2B-C1B	2.00	126.66	124.17
36	bE	609	CLA	C1D-ND-C4D	2.00	107.76	106.33

All (190) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
36	AD	404	CLA	ND
36	AD	405	CLA	ND
36	BD	601	CLA	ND
36	BD	602	CLA	ND
36	BD	603	CLA	ND
36	BD	604	CLA	ND
36	BD	606	CLA	ND
36	BD	607	CLA	ND
36	BD	608	CLA	ND
36	BD	609	CLA	ND
36	BD	610	CLA	ND
36	BD	611	CLA	ND
36	BD	612	CLA	ND
36	BD	613	CLA	ND
36	CD	503	CLA	ND

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Mol	Chain	Res	Type	Atom
36	CD	504	CLA	ND
36	CD	505	CLA	ND
36	CD	506	CLA	ND
36	CD	507	CLA	ND
36	CD	508	CLA	ND
36	CD	509	CLA	ND
36	CD	511	CLA	ND
36	CD	512	CLA	ND
36	CD	513	CLA	ND
36	CD	514	CLA	ND
36	CD	515	CLA	ND
36	DD	405	CLA	ND
36	DD	406	CLA	ND
36	HD	101	CLA	ND
36	HD	102	CLA	ND
36	ID	101	CLA	ND
36	XD	101	CLA	ND
36	AE	404	CLA	ND
36	AE	405	CLA	ND
36	BE	601	CLA	ND
36	BE	602	CLA	ND
36	BE	603	CLA	ND
36	BE	604	CLA	ND
36	BE	606	CLA	ND
36	BE	607	CLA	ND
36	BE	608	CLA	ND
36	BE	609	CLA	ND
36	BE	610	CLA	ND
36	BE	611	CLA	ND
36	BE	612	CLA	ND
36	BE	613	CLA	ND
36	CE	503	CLA	ND
36	CE	504	CLA	ND
36	CE	505	CLA	ND
36	CE	506	CLA	ND
36	CE	507	CLA	ND
36	CE	508	CLA	ND
36	CE	509	CLA	ND
36	CE	511	CLA	ND
36	CE	512	CLA	ND
36	CE	513	CLA	ND
36	CE	514	CLA	ND

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Mol	Chain	Res	Type	Atom
36	CE	515	CLA	ND
36	DE	405	CLA	ND
36	DE	406	CLA	ND
36	HE	101	CLA	ND
36	HE	102	CLA	ND
36	IE	101	CLA	ND
36	XE	101	CLA	ND
36	A1	404	CLA	ND
36	A1	405	CLA	ND
36	B1	601	CLA	ND
36	B1	602	CLA	ND
36	B1	603	CLA	ND
36	B1	604	CLA	ND
36	B1	606	CLA	ND
36	B1	607	CLA	ND
36	B1	608	CLA	ND
36	B1	609	CLA	ND
36	B1	610	CLA	ND
36	B1	611	CLA	ND
36	B1	612	CLA	ND
36	B1	613	CLA	ND
36	C1	503	CLA	ND
36	C1	504	CLA	ND
36	C1	505	CLA	ND
36	C1	506	CLA	ND
36	C1	507	CLA	ND
36	C1	508	CLA	ND
36	C1	509	CLA	ND
36	C1	511	CLA	ND
36	C1	512	CLA	ND
36	C1	513	CLA	ND
36	C1	514	CLA	ND
36	C1	515	CLA	ND
36	D1	404	CLA	ND
36	D1	405	CLA	ND
36	H1	101	CLA	ND
36	H1	102	CLA	ND
36	I1	101	CLA	ND
36	X1	101	CLA	ND
36	a1	405	CLA	ND
36	a1	406	CLA	ND
36	a1	407	CLA	ND

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Mol	Chain	Res	Type	Atom
36	b1	603	CLA	ND
36	b1	604	CLA	ND
36	b1	605	CLA	ND
36	b1	606	CLA	ND
36	b1	608	CLA	ND
36	b1	609	CLA	ND
36	b1	610	CLA	ND
36	b1	611	CLA	ND
36	b1	612	CLA	ND
36	b1	613	CLA	ND
36	b1	614	CLA	ND
36	c1	502	CLA	ND
36	c1	503	CLA	ND
36	c1	504	CLA	ND
36	c1	505	CLA	ND
36	c1	506	CLA	ND
36	c1	507	CLA	ND
36	c1	508	CLA	ND
36	c1	510	CLA	ND
36	c1	511	CLA	ND
36	c1	512	CLA	ND
36	c1	513	CLA	ND
36	d1	403	CLA	ND
36	d1	405	CLA	ND
36	d1	406	CLA	ND
36	h1	101	CLA	ND
36	h1	102	CLA	ND
36	x1	101	CLA	ND
36	aD	404	CLA	ND
36	aD	405	CLA	ND
36	aD	406	CLA	ND
36	bD	603	CLA	ND
36	bD	604	CLA	ND
36	bD	605	CLA	ND
36	bD	606	CLA	ND
36	bD	608	CLA	ND
36	bD	609	CLA	ND
36	bD	610	CLA	ND
36	bD	611	CLA	ND
36	bD	612	CLA	ND
36	bD	613	CLA	ND
36	bD	614	CLA	ND

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Mol	Chain	Res	Type	Atom
36	cD	503	CLA	ND
36	cD	504	CLA	ND
36	cD	505	CLA	ND
36	cD	506	CLA	ND
36	cD	507	CLA	ND
36	cD	508	CLA	ND
36	cD	510	CLA	ND
36	cD	511	CLA	ND
36	cD	512	CLA	ND
36	cD	513	CLA	ND
36	dD	403	CLA	ND
36	dD	405	CLA	ND
36	dD	406	CLA	ND
36	hD	101	CLA	ND
36	hD	102	CLA	ND
36	iD	101	CLA	ND
36	xD	101	CLA	ND
36	aE	404	CLA	ND
36	aE	405	CLA	ND
36	aE	406	CLA	ND
36	bE	603	CLA	ND
36	bE	604	CLA	ND
36	bE	605	CLA	ND
36	bE	606	CLA	ND
36	bE	608	CLA	ND
36	bE	609	CLA	ND
36	bE	610	CLA	ND
36	bE	611	CLA	ND
36	bE	612	CLA	ND
36	bE	613	CLA	ND
36	bE	614	CLA	ND
36	cE	503	CLA	ND
36	cE	504	CLA	ND
36	cE	505	CLA	ND
36	cE	506	CLA	ND
36	cE	507	CLA	ND
36	cE	508	CLA	ND
36	cE	510	CLA	ND
36	cE	511	CLA	ND
36	cE	512	CLA	ND
36	cE	513	CLA	ND
36	cE	514	CLA	ND

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Mol	Chain	Res	Type	Atom
36	dE	403	CLA	ND
36	dE	405	CLA	ND
36	dE	406	CLA	ND
36	hE	101	CLA	ND
36	hE	102	CLA	ND
36	iE	101	CLA	ND
36	xE	101	CLA	ND

All (8834) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
33	BA	301	CYC	NA-C4A-CHB-C1B
33	BA	301	CYC	C3A-C4A-CHB-C1B
33	BA	301	CYC	C2C-C3C-CAC-CBC
33	BA	301	CYC	C4C-C3C-CAC-CBC
33	BB	1001	CYC	C2C-C3C-CAC-CBC
33	BB	1001	CYC	C4C-C3C-CAC-CBC
33	BB	1004	CYC	NA-C4A-CHB-C1B
33	BB	1004	CYC	C3A-C4A-CHB-C1B
33	BB	1004	CYC	C2C-C3C-CAC-CBC
33	BB	1004	CYC	ND-C1D-CHD-C4C
33	BB	1004	CYC	C2D-C1D-CHD-C4C
33	CB	1001	CYC	NA-C1A-CHA-C4D
33	CB	1001	CYC	C2A-C1A-CHA-C4D
33	CB	1001	CYC	C1A-C2A-CAA-CBA
33	CB	1001	CYC	NA-C4A-CHB-C1B
33	CB	1001	CYC	C3A-C4A-CHB-C1B
33	CB	1001	CYC	ND-C1D-CHD-C4C
33	CB	1001	CYC	C2D-C1D-CHD-C4C
33	CB	1002	CYC	NA-C4A-CHB-C1B
33	CB	1002	CYC	C3A-C4A-CHB-C1B
33	CB	1002	CYC	C2A-CAA-CBA-CGA
33	CB	1002	CYC	C4B-C3B-CAB-CBB
33	CB	1002	CYC	ND-C1D-CHD-C4C
33	CB	1002	CYC	C2D-C1D-CHD-C4C
33	OB	201	CYC	NA-C4A-CHB-C1B
33	OB	201	CYC	C3A-C4A-CHB-C1B
33	OB	201	CYC	C2C-C3C-CAC-CBC
33	OB	201	CYC	C4C-C3C-CAC-CBC
33	PB	201	CYC	ND-C4D-CHA-C1A
33	PB	201	CYC	C3D-C4D-CHA-C1A
33	PB	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
33	QB	201	CYC	NA-C4A-CHB-C1B
33	QB	201	CYC	C3A-C4A-CHB-C1B
33	RB	201	CYC	ND-C1D-CHD-C4C
33	RB	201	CYC	C2D-C1D-CHD-C4C
33	SB	201	CYC	NA-C4A-CHB-C1B
33	SB	201	CYC	C3A-C4A-CHB-C1B
33	SB	201	CYC	ND-C1D-CHD-C4C
33	SB	201	CYC	C2D-C1D-CHD-C4C
33	TB	201	CYC	ND-C4D-CHA-C1A
33	TB	201	CYC	C3D-C4D-CHA-C1A
33	TB	201	CYC	ND-C1D-CHD-C4C
33	TB	201	CYC	C2D-C1D-CHD-C4C
33	VB	201	CYC	ND-C4D-CHA-C1A
33	VB	201	CYC	C3D-C4D-CHA-C1A
33	VB	201	CYC	NA-C4A-CHB-C1B
33	VB	201	CYC	C2C-C3C-CAC-CBC
33	VB	201	CYC	C4C-C3C-CAC-CBC
33	VB	201	CYC	ND-C1D-CHD-C4C
33	VB	201	CYC	C2D-C1D-CHD-C4C
33	WB	201	CYC	NA-C4A-CHB-C1B
33	WB	201	CYC	C3A-C4A-CHB-C1B
33	WB	201	CYC	C2C-C3C-CAC-CBC
33	WB	201	CYC	C4C-C3C-CAC-CBC
33	WB	201	CYC	ND-C1D-CHD-C4C
33	WB	201	CYC	C2D-C1D-CHD-C4C
33	XB	201	CYC	NA-C4A-CHB-C1B
33	XB	201	CYC	C3A-C4A-CHB-C1B
33	XB	201	CYC	C2C-C3C-CAC-CBC
33	XB	201	CYC	C4C-C3C-CAC-CBC
33	XB	201	CYC	ND-C1D-CHD-C4C
33	XB	201	CYC	C2D-C1D-CHD-C4C
33	ZB	201	CYC	NA-C4A-CHB-C1B
33	ZB	201	CYC	C3A-C4A-CHB-C1B
33	BC	301	CYC	NA-C4A-CHB-C1B
33	BC	301	CYC	C3A-C4A-CHB-C1B
33	BC	301	CYC	C2C-C3C-CAC-CBC
33	BC	301	CYC	C4C-C3C-CAC-CBC
33	IF	201	CYC	C2C-C3C-CAC-CBC
33	IF	201	CYC	C4C-C3C-CAC-CBC
33	IF	201	CYC	ND-C1D-CHD-C4C
33	IF	201	CYC	C2D-C1D-CHD-C4C
33	JF	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	JF	201	CYC	C3A-C4A-CHB-C1B
33	JF	201	CYC	C4C-C3C-CAC-CBC
33	KF	201	CYC	ND-C1D-CHD-C4C
33	KF	201	CYC	C2D-C1D-CHD-C4C
33	LF	201	CYC	NA-C4A-CHB-C1B
33	NF	101	CYC	C2C-C3C-CAC-CBC
33	NF	101	CYC	C4C-C3C-CAC-CBC
33	NF	101	CYC	ND-C1D-CHD-C4C
33	NF	101	CYC	C2D-C1D-CHD-C4C
33	XF	201	CYC	NA-C4A-CHB-C1B
33	XF	201	CYC	C3A-C4A-CHB-C1B
33	XF	201	CYC	C2C-C3C-CAC-CBC
33	XF	201	CYC	C4C-C3C-CAC-CBC
33	XF	201	CYC	ND-C1D-CHD-C4C
33	XF	201	CYC	C2D-C1D-CHD-C4C
33	YF	201	CYC	NA-C4A-CHB-C1B
33	YF	201	CYC	C3A-C4A-CHB-C1B
33	YF	201	CYC	C2D-C1D-CHD-C4C
33	ZF	201	CYC	NA-C4A-CHB-C1B
33	ZF	201	CYC	C3A-C4A-CHB-C1B
33	ZF	201	CYC	C2C-C3C-CAC-CBC
33	ZF	201	CYC	C4C-C3C-CAC-CBC
33	ZF	201	CYC	ND-C1D-CHD-C4C
33	ZF	201	CYC	C2D-C1D-CHD-C4C
33	AG	201	CYC	NA-C4A-CHB-C1B
33	AG	201	CYC	C3A-C4A-CHB-C1B
33	AG	201	CYC	C2D-C1D-CHD-C4C
33	GG	201	CYC	NA-C4A-CHB-C1B
33	GG	201	CYC	C3A-C4A-CHB-C1B
33	GG	201	CYC	C2C-C3C-CAC-CBC
33	GG	201	CYC	C4C-C3C-CAC-CBC
33	GG	201	CYC	ND-C1D-CHD-C4C
33	GG	201	CYC	C2D-C1D-CHD-C4C
33	HG	201	CYC	ND-C4D-CHA-C1A
33	HG	201	CYC	NA-C4A-CHB-C1B
33	HG	201	CYC	C3A-C4A-CHB-C1B
33	HG	201	CYC	C2C-C3C-CAC-CBC
33	HG	201	CYC	C4C-C3C-CAC-CBC
33	HG	201	CYC	C2D-C1D-CHD-C4C
33	IG	201	CYC	NA-C4A-CHB-C1B
33	IG	201	CYC	C3A-C4A-CHB-C1B
33	IG	201	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	IG	201	CYC	C4C-C3C-CAC-CBC
33	IG	201	CYC	ND-C1D-CHD-C4C
33	JG	201	CYC	NA-C4A-CHB-C1B
33	JG	201	CYC	C3A-C4A-CHB-C1B
33	JG	201	CYC	C4B-C3B-CAB-CBB
33	JG	201	CYC	C2D-C1D-CHD-C4C
33	LG	201	CYC	NA-C4A-CHB-C1B
33	LG	201	CYC	C3A-C4A-CHB-C1B
33	LG	201	CYC	C2C-C3C-CAC-CBC
33	LG	201	CYC	C4C-C3C-CAC-CBC
33	LG	201	CYC	C2D-C1D-CHD-C4C
33	MG	201	CYC	C1A-C2A-CAA-CBA
33	MG	201	CYC	C4C-C3C-CAC-CBC
33	MG	201	CYC	ND-C1D-CHD-C4C
33	MG	201	CYC	C2D-C1D-CHD-C4C
33	NG	201	CYC	ND-C1D-CHD-C4C
33	OG	201	CYC	C3A-C4A-CHB-C1B
33	OG	201	CYC	C2C-C3C-CAC-CBC
33	OG	201	CYC	C4C-C3C-CAC-CBC
33	OG	201	CYC	C2D-C1D-CHD-C4C
33	PG	201	CYC	NA-C4A-CHB-C1B
33	PG	201	CYC	C3A-C4A-CHB-C1B
33	PG	201	CYC	C2C-C3C-CAC-CBC
33	PG	201	CYC	C4C-C3C-CAC-CBC
33	PG	201	CYC	ND-C1D-CHD-C4C
33	PG	201	CYC	C2D-C1D-CHD-C4C
33	QG	201	CYC	NA-C4A-CHB-C1B
33	QG	201	CYC	C3A-C4A-CHB-C1B
33	RG	201	CYC	NA-C4A-CHB-C1B
33	RG	201	CYC	C3A-C4A-CHB-C1B
33	RG	201	CYC	C4B-C3B-CAB-CBB
33	RG	201	CYC	C4C-C3C-CAC-CBC
33	TG	201	CYC	NA-C4A-CHB-C1B
33	TG	201	CYC	C3A-C4A-CHB-C1B
33	TG	201	CYC	C2C-C3C-CAC-CBC
33	TG	201	CYC	C4C-C3C-CAC-CBC
33	TG	201	CYC	ND-C1D-CHD-C4C
33	TG	201	CYC	C2D-C1D-CHD-C4C
33	VG	201	CYC	ND-C4D-CHA-C1A
33	VG	201	CYC	C3D-C4D-CHA-C1A
33	VG	201	CYC	NA-C4A-CHB-C1B
33	VG	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	VG	201	CYC	C2C-C3C-CAC-CBC
33	VG	201	CYC	C4C-C3C-CAC-CBC
33	VG	201	CYC	ND-C1D-CHD-C4C
33	WG	201	CYC	C3A-C4A-CHB-C1B
33	WG	201	CYC	C2C-C3C-CAC-CBC
33	WG	201	CYC	C4C-C3C-CAC-CBC
33	BI	301	CYC	NA-C4A-CHB-C1B
33	BI	301	CYC	C3A-C4A-CHB-C1B
33	BI	301	CYC	C2C-C3C-CAC-CBC
33	BI	301	CYC	C4C-C3C-CAC-CBC
33	IK	201	CYC	C2C-C3C-CAC-CBC
33	IK	201	CYC	C4C-C3C-CAC-CBC
33	IK	201	CYC	ND-C1D-CHD-C4C
33	IK	201	CYC	C2D-C1D-CHD-C4C
33	JK	201	CYC	NA-C4A-CHB-C1B
33	JK	201	CYC	C3A-C4A-CHB-C1B
33	JK	201	CYC	C4C-C3C-CAC-CBC
33	KK	201	CYC	ND-C1D-CHD-C4C
33	KK	201	CYC	C2D-C1D-CHD-C4C
33	LK	201	CYC	NA-C4A-CHB-C1B
33	NK	101	CYC	C2C-C3C-CAC-CBC
33	NK	101	CYC	C4C-C3C-CAC-CBC
33	NK	101	CYC	ND-C1D-CHD-C4C
33	NK	101	CYC	C2D-C1D-CHD-C4C
33	XK	201	CYC	NA-C4A-CHB-C1B
33	XK	201	CYC	C3A-C4A-CHB-C1B
33	XK	201	CYC	C2C-C3C-CAC-CBC
33	XK	201	CYC	C4C-C3C-CAC-CBC
33	XK	201	CYC	ND-C1D-CHD-C4C
33	XK	201	CYC	C2D-C1D-CHD-C4C
33	YK	201	CYC	NA-C4A-CHB-C1B
33	YK	201	CYC	C3A-C4A-CHB-C1B
33	YK	201	CYC	C2D-C1D-CHD-C4C
33	ZK	201	CYC	NA-C4A-CHB-C1B
33	ZK	201	CYC	C3A-C4A-CHB-C1B
33	ZK	201	CYC	C2C-C3C-CAC-CBC
33	ZK	201	CYC	C4C-C3C-CAC-CBC
33	ZK	201	CYC	ND-C1D-CHD-C4C
33	ZK	201	CYC	C2D-C1D-CHD-C4C
33	AL	201	CYC	NA-C4A-CHB-C1B
33	AL	201	CYC	C3A-C4A-CHB-C1B
33	AL	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
33	GL	201	CYC	NA-C4A-CHB-C1B
33	GL	201	CYC	C3A-C4A-CHB-C1B
33	GL	201	CYC	C2C-C3C-CAC-CBC
33	GL	201	CYC	C4C-C3C-CAC-CBC
33	GL	201	CYC	ND-C1D-CHD-C4C
33	GL	201	CYC	C2D-C1D-CHD-C4C
33	HL	201	CYC	ND-C4D-CHA-C1A
33	HL	201	CYC	NA-C4A-CHB-C1B
33	HL	201	CYC	C3A-C4A-CHB-C1B
33	HL	201	CYC	C2C-C3C-CAC-CBC
33	HL	201	CYC	C4C-C3C-CAC-CBC
33	HL	201	CYC	C2D-C1D-CHD-C4C
33	IL	201	CYC	NA-C4A-CHB-C1B
33	IL	201	CYC	C3A-C4A-CHB-C1B
33	IL	201	CYC	C2C-C3C-CAC-CBC
33	IL	201	CYC	C4C-C3C-CAC-CBC
33	IL	201	CYC	ND-C1D-CHD-C4C
33	JL	201	CYC	NA-C4A-CHB-C1B
33	JL	201	CYC	C3A-C4A-CHB-C1B
33	JL	201	CYC	C4B-C3B-CAB-CBB
33	JL	201	CYC	C2D-C1D-CHD-C4C
33	LL	201	CYC	C3D-C4D-CHA-C1A
33	LL	201	CYC	NA-C4A-CHB-C1B
33	LL	201	CYC	C3A-C4A-CHB-C1B
33	LL	201	CYC	C2C-C3C-CAC-CBC
33	LL	201	CYC	C4C-C3C-CAC-CBC
33	LL	201	CYC	C2D-C1D-CHD-C4C
33	ML	201	CYC	C1A-C2A-CAA-CBA
33	ML	201	CYC	C4C-C3C-CAC-CBC
33	ML	201	CYC	ND-C1D-CHD-C4C
33	ML	201	CYC	C2D-C1D-CHD-C4C
33	NL	201	CYC	ND-C1D-CHD-C4C
33	OL	201	CYC	C3A-C4A-CHB-C1B
33	OL	201	CYC	C2C-C3C-CAC-CBC
33	OL	201	CYC	C4C-C3C-CAC-CBC
33	PL	201	CYC	NA-C4A-CHB-C1B
33	PL	201	CYC	C3A-C4A-CHB-C1B
33	PL	201	CYC	C2C-C3C-CAC-CBC
33	PL	201	CYC	C4C-C3C-CAC-CBC
33	PL	201	CYC	ND-C1D-CHD-C4C
33	PL	201	CYC	C2D-C1D-CHD-C4C
33	QL	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	QL	201	CYC	C3A-C4A-CHB-C1B
33	RL	201	CYC	NA-C4A-CHB-C1B
33	RL	201	CYC	C3A-C4A-CHB-C1B
33	RL	201	CYC	C4B-C3B-CAB-CBB
33	RL	201	CYC	C4C-C3C-CAC-CBC
33	TL	201	CYC	NA-C4A-CHB-C1B
33	TL	201	CYC	C3A-C4A-CHB-C1B
33	TL	201	CYC	C2C-C3C-CAC-CBC
33	TL	201	CYC	C4C-C3C-CAC-CBC
33	TL	201	CYC	ND-C1D-CHD-C4C
33	TL	201	CYC	C2D-C1D-CHD-C4C
33	VL	201	CYC	ND-C4D-CHA-C1A
33	VL	201	CYC	C3D-C4D-CHA-C1A
33	VL	201	CYC	NA-C4A-CHB-C1B
33	VL	201	CYC	C3A-C4A-CHB-C1B
33	VL	201	CYC	C2C-C3C-CAC-CBC
33	VL	201	CYC	C4C-C3C-CAC-CBC
33	VL	201	CYC	ND-C1D-CHD-C4C
33	WL	201	CYC	C3A-C4A-CHB-C1B
33	WL	201	CYC	C2C-C3C-CAC-CBC
33	WL	201	CYC	C4C-C3C-CAC-CBC
33	b2	201	CYC	ND-C4D-CHA-C1A
33	b2	201	CYC	C3D-C4D-CHA-C1A
33	b2	201	CYC	NA-C4A-CHB-C1B
33	b2	201	CYC	C3A-C4A-CHB-C1B
33	b2	201	CYC	C4B-C3B-CAB-CBB
33	b2	201	CYC	C2C-C3C-CAC-CBC
33	b2	201	CYC	C4C-C3C-CAC-CBC
33	b2	201	CYC	C3D-CAD-CBD-CGD
33	c2	201	CYC	NA-C4A-CHB-C1B
33	c2	201	CYC	C3A-C4A-CHB-C1B
33	c2	201	CYC	C2C-C3C-CAC-CBC
33	c2	201	CYC	C4C-C3C-CAC-CBC
33	c2	202	CYC	C3A-C2A-CAA-CBA
33	c2	202	CYC	ND-C1D-CHD-C4C
33	c2	202	CYC	C2D-C1D-CHD-C4C
33	c2	202	CYC	C2D-C3D-CAD-CBD
33	c2	202	CYC	C4D-C3D-CAD-CBD
33	d2	201	CYC	ND-C4D-CHA-C1A
33	d2	201	CYC	C3D-C4D-CHA-C1A
33	d2	201	CYC	NA-C4A-CHB-C1B
33	d2	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	d2	201	CYC	C4B-C3B-CAB-CBB
33	d2	201	CYC	C2C-C3C-CAC-CBC
33	d2	201	CYC	C4C-C3C-CAC-CBC
33	d2	201	CYC	C3D-CAD-CBD-CGD
33	e2	201	CYC	NA-C4A-CHB-C1B
33	e2	201	CYC	C3A-C4A-CHB-C1B
33	e2	201	CYC	C2C-C3C-CAC-CBC
33	e2	201	CYC	C4C-C3C-CAC-CBC
33	e2	202	CYC	C3A-C2A-CAA-CBA
33	e2	202	CYC	ND-C1D-CHD-C4C
33	e2	202	CYC	C2D-C1D-CHD-C4C
33	e2	202	CYC	C2D-C3D-CAD-CBD
33	e2	202	CYC	C4D-C3D-CAD-CBD
33	f2	201	CYC	ND-C4D-CHA-C1A
33	f2	201	CYC	C3D-C4D-CHA-C1A
33	f2	201	CYC	NA-C4A-CHB-C1B
33	f2	201	CYC	C3A-C4A-CHB-C1B
33	f2	201	CYC	C4B-C3B-CAB-CBB
33	f2	201	CYC	C2C-C3C-CAC-CBC
33	f2	201	CYC	C4C-C3C-CAC-CBC
33	f2	201	CYC	C3D-CAD-CBD-CGD
33	g2	201	CYC	C3A-C2A-CAA-CBA
33	g2	201	CYC	ND-C1D-CHD-C4C
33	g2	201	CYC	C2D-C1D-CHD-C4C
33	g2	201	CYC	C2D-C3D-CAD-CBD
33	g2	201	CYC	C4D-C3D-CAD-CBD
33	h2	201	CYC	ND-C4D-CHA-C1A
33	h2	201	CYC	C3D-C4D-CHA-C1A
33	h2	201	CYC	NA-C4A-CHB-C1B
33	h2	201	CYC	C3A-C4A-CHB-C1B
33	h2	201	CYC	C4B-C3B-CAB-CBB
33	h2	201	CYC	C2C-C3C-CAC-CBC
33	h2	201	CYC	C4C-C3C-CAC-CBC
33	h2	201	CYC	C3D-CAD-CBD-CGD
33	i2	201	CYC	C3A-C2A-CAA-CBA
33	i2	201	CYC	ND-C1D-CHD-C4C
33	i2	201	CYC	C2D-C1D-CHD-C4C
33	i2	201	CYC	C2D-C3D-CAD-CBD
33	i2	201	CYC	C4D-C3D-CAD-CBD
33	i2	202	CYC	NA-C4A-CHB-C1B
33	i2	202	CYC	C3A-C4A-CHB-C1B
33	i2	202	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	i2	202	CYC	C4C-C3C-CAC-CBC
33	j2	201	CYC	ND-C4D-CHA-C1A
33	j2	201	CYC	C3D-C4D-CHA-C1A
33	j2	201	CYC	NA-C4A-CHB-C1B
33	j2	201	CYC	C3A-C4A-CHB-C1B
33	j2	201	CYC	C4B-C3B-CAB-CBB
33	j2	201	CYC	C2C-C3C-CAC-CBC
33	j2	201	CYC	C4C-C3C-CAC-CBC
33	j2	201	CYC	C3D-CAD-CBD-CGD
33	j2	202	CYC	C3A-C2A-CAA-CBA
33	j2	202	CYC	ND-C1D-CHD-C4C
33	j2	202	CYC	C2D-C1D-CHD-C4C
33	j2	202	CYC	C2D-C3D-CAD-CBD
33	j2	202	CYC	C4D-C3D-CAD-CBD
33	k2	201	CYC	NA-C4A-CHB-C1B
33	k2	201	CYC	C3A-C4A-CHB-C1B
33	k2	201	CYC	C2C-C3C-CAC-CBC
33	k2	201	CYC	C4C-C3C-CAC-CBC
33	l2	201	CYC	ND-C4D-CHA-C1A
33	l2	201	CYC	C3D-C4D-CHA-C1A
33	l2	201	CYC	NA-C4A-CHB-C1B
33	l2	201	CYC	C3A-C4A-CHB-C1B
33	l2	201	CYC	C4B-C3B-CAB-CBB
33	l2	201	CYC	C2C-C3C-CAC-CBC
33	l2	201	CYC	C4C-C3C-CAC-CBC
33	l2	201	CYC	C3D-CAD-CBD-CGD
33	m2	201	CYC	C3A-C2A-CAA-CBA
33	m2	201	CYC	ND-C1D-CHD-C4C
33	m2	201	CYC	C2D-C1D-CHD-C4C
33	m2	201	CYC	C2D-C3D-CAD-CBD
33	m2	201	CYC	C4D-C3D-CAD-CBD
33	B2	301	CYC	NA-C4A-CHB-C1B
33	B2	301	CYC	C3A-C4A-CHB-C1B
33	B2	301	CYC	C2C-C3C-CAC-CBC
33	B2	301	CYC	C4C-C3C-CAC-CBC
33	b3	201	CYC	ND-C4D-CHA-C1A
33	b3	201	CYC	C3D-C4D-CHA-C1A
33	b3	201	CYC	NA-C4A-CHB-C1B
33	b3	201	CYC	C3A-C4A-CHB-C1B
33	b3	201	CYC	C4B-C3B-CAB-CBB
33	b3	201	CYC	C2C-C3C-CAC-CBC
33	b3	201	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	b3	201	CYC	C3D-CAD-CBD-CGD
33	c3	201	CYC	NA-C4A-CHB-C1B
33	c3	201	CYC	C3A-C4A-CHB-C1B
33	c3	201	CYC	C2C-C3C-CAC-CBC
33	c3	201	CYC	C4C-C3C-CAC-CBC
33	c3	202	CYC	C3A-C2A-CAA-CBA
33	c3	202	CYC	ND-C1D-CHD-C4C
33	c3	202	CYC	C2D-C1D-CHD-C4C
33	c3	202	CYC	C2D-C3D-CAD-CBD
33	c3	202	CYC	C4D-C3D-CAD-CBD
33	d3	201	CYC	ND-C4D-CHA-C1A
33	d3	201	CYC	C3D-C4D-CHA-C1A
33	d3	201	CYC	NA-C4A-CHB-C1B
33	d3	201	CYC	C3A-C4A-CHB-C1B
33	d3	201	CYC	C4B-C3B-CAB-CBB
33	d3	201	CYC	C2C-C3C-CAC-CBC
33	d3	201	CYC	C4C-C3C-CAC-CBC
33	d3	201	CYC	C3D-CAD-CBD-CGD
33	e3	201	CYC	NA-C4A-CHB-C1B
33	e3	201	CYC	C3A-C4A-CHB-C1B
33	e3	201	CYC	C2C-C3C-CAC-CBC
33	e3	201	CYC	C4C-C3C-CAC-CBC
33	e3	202	CYC	C3A-C2A-CAA-CBA
33	e3	202	CYC	ND-C1D-CHD-C4C
33	e3	202	CYC	C2D-C1D-CHD-C4C
33	e3	202	CYC	C2D-C3D-CAD-CBD
33	e3	202	CYC	C4D-C3D-CAD-CBD
33	f3	201	CYC	ND-C4D-CHA-C1A
33	f3	201	CYC	C3D-C4D-CHA-C1A
33	f3	201	CYC	NA-C4A-CHB-C1B
33	f3	201	CYC	C3A-C4A-CHB-C1B
33	f3	201	CYC	C4B-C3B-CAB-CBB
33	f3	201	CYC	C2C-C3C-CAC-CBC
33	f3	201	CYC	C4C-C3C-CAC-CBC
33	f3	201	CYC	C3D-CAD-CBD-CGD
33	g3	201	CYC	C3A-C2A-CAA-CBA
33	g3	201	CYC	ND-C1D-CHD-C4C
33	g3	201	CYC	C2D-C1D-CHD-C4C
33	g3	201	CYC	C2D-C3D-CAD-CBD
33	g3	201	CYC	C4D-C3D-CAD-CBD
33	h3	201	CYC	ND-C4D-CHA-C1A
33	h3	201	CYC	C3D-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
33	h3	201	CYC	NA-C4A-CHB-C1B
33	h3	201	CYC	C3A-C4A-CHB-C1B
33	h3	201	CYC	C4B-C3B-CAB-CBB
33	h3	201	CYC	C2C-C3C-CAC-CBC
33	h3	201	CYC	C4C-C3C-CAC-CBC
33	h3	201	CYC	C3D-CAD-CBD-CGD
33	i3	201	CYC	C3A-C2A-CAA-CBA
33	i3	201	CYC	ND-C1D-CHD-C4C
33	i3	201	CYC	C2D-C1D-CHD-C4C
33	i3	201	CYC	C2D-C3D-CAD-CBD
33	i3	201	CYC	C4D-C3D-CAD-CBD
33	i3	202	CYC	NA-C4A-CHB-C1B
33	i3	202	CYC	C3A-C4A-CHB-C1B
33	i3	202	CYC	C2C-C3C-CAC-CBC
33	i3	202	CYC	C4C-C3C-CAC-CBC
33	j3	201	CYC	ND-C4D-CHA-C1A
33	j3	201	CYC	C3D-C4D-CHA-C1A
33	j3	201	CYC	NA-C4A-CHB-C1B
33	j3	201	CYC	C3A-C4A-CHB-C1B
33	j3	201	CYC	C4B-C3B-CAB-CBB
33	j3	201	CYC	C2C-C3C-CAC-CBC
33	j3	201	CYC	C4C-C3C-CAC-CBC
33	j3	201	CYC	C3D-CAD-CBD-CGD
33	j3	202	CYC	C3A-C2A-CAA-CBA
33	j3	202	CYC	ND-C1D-CHD-C4C
33	j3	202	CYC	C2D-C1D-CHD-C4C
33	j3	202	CYC	C2D-C3D-CAD-CBD
33	j3	202	CYC	C4D-C3D-CAD-CBD
33	k3	201	CYC	NA-C4A-CHB-C1B
33	k3	201	CYC	C3A-C4A-CHB-C1B
33	k3	201	CYC	C2C-C3C-CAC-CBC
33	k3	201	CYC	C4C-C3C-CAC-CBC
33	l3	201	CYC	ND-C4D-CHA-C1A
33	l3	201	CYC	C3D-C4D-CHA-C1A
33	l3	201	CYC	NA-C4A-CHB-C1B
33	l3	201	CYC	C3A-C4A-CHB-C1B
33	l3	201	CYC	C4B-C3B-CAB-CBB
33	l3	201	CYC	C2C-C3C-CAC-CBC
33	l3	201	CYC	C4C-C3C-CAC-CBC
33	l3	201	CYC	C3D-CAD-CBD-CGD
33	m3	201	CYC	C3A-C2A-CAA-CBA
33	m3	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
33	m3	201	CYC	C2D-C1D-CHD-C4C
33	m3	201	CYC	C2D-C3D-CAD-CBD
33	m3	201	CYC	C4D-C3D-CAD-CBD
33	B3	301	CYC	NA-C4A-CHB-C1B
33	B3	301	CYC	C3A-C4A-CHB-C1B
33	B3	301	CYC	C2C-C3C-CAC-CBC
33	B3	301	CYC	C4C-C3C-CAC-CBC
33	Z4	201	CYC	NA-C4A-CHB-C1B
33	Z4	201	CYC	C3A-C4A-CHB-C1B
33	a4	201	CYC	NA-C4A-CHB-C1B
33	b4	101	CYC	C2C-C3C-CAC-CBC
33	b4	101	CYC	ND-C1D-CHD-C4C
33	b4	101	CYC	C2D-C1D-CHD-C4C
33	S4	201	CYC	NA-C4A-CHB-C1B
33	S4	201	CYC	C3A-C4A-CHB-C1B
33	S4	201	CYC	ND-C1D-CHD-C4C
33	S4	201	CYC	C2D-C1D-CHD-C4C
33	T4	201	CYC	ND-C4D-CHA-C1A
33	T4	201	CYC	C3D-C4D-CHA-C1A
33	T4	201	CYC	ND-C1D-CHD-C4C
33	T4	201	CYC	C2D-C1D-CHD-C4C
33	V4	201	CYC	ND-C4D-CHA-C1A
33	V4	201	CYC	C3D-C4D-CHA-C1A
33	V4	201	CYC	NA-C4A-CHB-C1B
33	V4	201	CYC	C2C-C3C-CAC-CBC
33	V4	201	CYC	C4C-C3C-CAC-CBC
33	V4	201	CYC	ND-C1D-CHD-C4C
33	V4	201	CYC	C2D-C1D-CHD-C4C
33	W4	201	CYC	NA-C4A-CHB-C1B
33	W4	201	CYC	C3A-C4A-CHB-C1B
33	W4	201	CYC	C2C-C3C-CAC-CBC
33	W4	201	CYC	C4C-C3C-CAC-CBC
33	W4	201	CYC	ND-C1D-CHD-C4C
33	W4	201	CYC	C2D-C1D-CHD-C4C
33	X4	201	CYC	NA-C4A-CHB-C1B
33	X4	201	CYC	C3A-C4A-CHB-C1B
33	X4	201	CYC	C2C-C3C-CAC-CBC
33	X4	201	CYC	C4C-C3C-CAC-CBC
33	X4	201	CYC	ND-C1D-CHD-C4C
33	X4	201	CYC	C2D-C1D-CHD-C4C
33	s4	201	CYC	NA-C4A-CHB-C1B
33	s4	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	s4	201	CYC	C2C-C3C-CAC-CBC
33	s4	201	CYC	C4C-C3C-CAC-CBC
33	s4	201	CYC	ND-C1D-CHD-C4C
33	s4	201	CYC	C2D-C1D-CHD-C4C
33	u4	201	CYC	NA-C4A-CHB-C1B
33	u4	201	CYC	C3A-C4A-CHB-C1B
33	u4	201	CYC	ND-C1D-CHD-C4C
33	u4	201	CYC	C2D-C1D-CHD-C4C
33	v4	201	CYC	NA-C4A-CHB-C1B
33	v4	201	CYC	C3A-C4A-CHB-C1B
33	v4	201	CYC	C2C-C3C-CAC-CBC
33	v4	201	CYC	C4C-C3C-CAC-CBC
33	v4	201	CYC	ND-C1D-CHD-C4C
33	v4	201	CYC	C2D-C1D-CHD-C4C
33	w4	201	CYC	NA-C4A-CHB-C1B
33	w4	201	CYC	C3A-C4A-CHB-C1B
33	w4	201	CYC	C2C-C3C-CAC-CBC
33	w4	201	CYC	C4C-C3C-CAC-CBC
33	o4	201	CYC	NA-C4A-CHB-C1B
33	o4	201	CYC	C3A-C4A-CHB-C1B
33	o4	201	CYC	C2C-C3C-CAC-CBC
33	o4	201	CYC	C4C-C3C-CAC-CBC
33	o4	201	CYC	ND-C1D-CHD-C4C
33	o4	201	CYC	C2D-C1D-CHD-C4C
33	q4	201	CYC	NA-C4A-CHB-C1B
33	q4	201	CYC	C3A-C4A-CHB-C1B
33	q4	201	CYC	C2C-C3C-CAC-CBC
33	q4	201	CYC	C4C-C3C-CAC-CBC
33	q4	201	CYC	ND-C1D-CHD-C4C
33	r4	201	CYC	C2D-C3D-CAD-CBD
33	r4	201	CYC	C4D-C3D-CAD-CBD
33	r4	201	CYC	C3D-CAD-CBD-CGD
33	y4	201	CYC	NA-C4A-CHB-C1B
33	y4	201	CYC	C3A-C4A-CHB-C1B
33	y4	201	CYC	C2C-C3C-CAC-CBC
33	y4	201	CYC	ND-C1D-CHD-C4C
33	y4	201	CYC	C2D-C1D-CHD-C4C
33	z4	201	CYC	NA-C4A-CHB-C1B
33	z4	201	CYC	C3A-C4A-CHB-C1B
33	z4	201	CYC	ND-C1D-CHD-C4C
33	z4	201	CYC	C2D-C1D-CHD-C4C
33	B4	1001	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	B4	1001	CYC	C4C-C3C-CAC-CBC
33	B4	1004	CYC	NA-C4A-CHB-C1B
33	B4	1004	CYC	C3A-C4A-CHB-C1B
33	B4	1004	CYC	C2C-C3C-CAC-CBC
33	B4	1004	CYC	ND-C1D-CHD-C4C
33	B4	1004	CYC	C2D-C1D-CHD-C4C
33	C4	1001	CYC	NA-C1A-CHA-C4D
33	C4	1001	CYC	C2A-C1A-CHA-C4D
33	C4	1001	CYC	C1A-C2A-CAA-CBA
33	C4	1001	CYC	NA-C4A-CHB-C1B
33	C4	1001	CYC	C3A-C4A-CHB-C1B
33	C4	1001	CYC	ND-C1D-CHD-C4C
33	C4	1001	CYC	C2D-C1D-CHD-C4C
33	C4	1002	CYC	NA-C4A-CHB-C1B
33	C4	1002	CYC	C3A-C4A-CHB-C1B
33	C4	1002	CYC	C2A-CAA-CBA-CGA
33	C4	1002	CYC	C4B-C3B-CAB-CBB
33	C4	1002	CYC	ND-C1D-CHD-C4C
33	C4	1002	CYC	C2D-C1D-CHD-C4C
33	O4	201	CYC	NA-C4A-CHB-C1B
33	O4	201	CYC	C3A-C4A-CHB-C1B
33	O4	201	CYC	C2C-C3C-CAC-CBC
33	O4	201	CYC	C4C-C3C-CAC-CBC
33	P4	201	CYC	ND-C4D-CHA-C1A
33	P4	201	CYC	C3D-C4D-CHA-C1A
33	P4	201	CYC	ND-C1D-CHD-C4C
33	Q4	201	CYC	NA-C4A-CHB-C1B
33	Q4	201	CYC	C3A-C4A-CHB-C1B
33	R4	201	CYC	ND-C1D-CHD-C4C
33	R4	201	CYC	C2D-C1D-CHD-C4C
33	b5	201	CYC	ND-C4D-CHA-C1A
33	b5	201	CYC	C3D-C4D-CHA-C1A
33	b5	201	CYC	NA-C4A-CHB-C1B
33	b5	201	CYC	C3A-C4A-CHB-C1B
33	b5	201	CYC	C4B-C3B-CAB-CBB
33	b5	201	CYC	C2C-C3C-CAC-CBC
33	b5	201	CYC	C4C-C3C-CAC-CBC
33	b5	201	CYC	C3D-CAD-CBD-CGD
33	c5	201	CYC	NA-C4A-CHB-C1B
33	c5	201	CYC	C3A-C4A-CHB-C1B
33	c5	201	CYC	C2C-C3C-CAC-CBC
33	c5	201	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	c5	202	CYC	C3A-C2A-CAA-CBA
33	c5	202	CYC	ND-C1D-CHD-C4C
33	c5	202	CYC	C2D-C1D-CHD-C4C
33	c5	202	CYC	C2D-C3D-CAD-CBD
33	c5	202	CYC	C4D-C3D-CAD-CBD
33	d5	201	CYC	ND-C4D-CHA-C1A
33	d5	201	CYC	C3D-C4D-CHA-C1A
33	d5	201	CYC	NA-C4A-CHB-C1B
33	d5	201	CYC	C3A-C4A-CHB-C1B
33	d5	201	CYC	C4B-C3B-CAB-CBB
33	d5	201	CYC	C2C-C3C-CAC-CBC
33	d5	201	CYC	C4C-C3C-CAC-CBC
33	d5	201	CYC	C3D-CAD-CBD-CGD
33	e5	201	CYC	NA-C4A-CHB-C1B
33	e5	201	CYC	C3A-C4A-CHB-C1B
33	e5	201	CYC	C2C-C3C-CAC-CBC
33	e5	201	CYC	C4C-C3C-CAC-CBC
33	e5	202	CYC	C3A-C2A-CAA-CBA
33	e5	202	CYC	ND-C1D-CHD-C4C
33	e5	202	CYC	C2D-C1D-CHD-C4C
33	e5	202	CYC	C2D-C3D-CAD-CBD
33	e5	202	CYC	C4D-C3D-CAD-CBD
33	f5	201	CYC	ND-C4D-CHA-C1A
33	f5	201	CYC	C3D-C4D-CHA-C1A
33	f5	201	CYC	NA-C4A-CHB-C1B
33	f5	201	CYC	C3A-C4A-CHB-C1B
33	f5	201	CYC	C4B-C3B-CAB-CBB
33	f5	201	CYC	C2C-C3C-CAC-CBC
33	f5	201	CYC	C4C-C3C-CAC-CBC
33	f5	201	CYC	C3D-CAD-CBD-CGD
33	g5	201	CYC	C3A-C2A-CAA-CBA
33	g5	201	CYC	ND-C1D-CHD-C4C
33	g5	201	CYC	C2D-C1D-CHD-C4C
33	g5	201	CYC	C2D-C3D-CAD-CBD
33	g5	201	CYC	C4D-C3D-CAD-CBD
33	g5	202	CYC	NA-C4A-CHB-C1B
33	g5	202	CYC	C3A-C4A-CHB-C1B
33	g5	202	CYC	C2C-C3C-CAC-CBC
33	g5	202	CYC	C4C-C3C-CAC-CBC
33	h5	201	CYC	ND-C4D-CHA-C1A
33	h5	201	CYC	C3D-C4D-CHA-C1A
33	h5	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	h5	201	CYC	C3A-C4A-CHB-C1B
33	h5	201	CYC	C4B-C3B-CAB-CBB
33	h5	201	CYC	C2C-C3C-CAC-CBC
33	h5	201	CYC	C4C-C3C-CAC-CBC
33	h5	201	CYC	C3D-CAD-CBD-CGD
33	i5	201	CYC	C3A-C2A-CAA-CBA
33	i5	201	CYC	ND-C1D-CHD-C4C
33	i5	201	CYC	C2D-C1D-CHD-C4C
33	i5	201	CYC	C2D-C3D-CAD-CBD
33	i5	201	CYC	C4D-C3D-CAD-CBD
33	i5	202	CYC	NA-C4A-CHB-C1B
33	i5	202	CYC	C3A-C4A-CHB-C1B
33	i5	202	CYC	C2C-C3C-CAC-CBC
33	i5	202	CYC	C4C-C3C-CAC-CBC
33	j5	201	CYC	ND-C4D-CHA-C1A
33	j5	201	CYC	C3D-C4D-CHA-C1A
33	j5	201	CYC	NA-C4A-CHB-C1B
33	j5	201	CYC	C3A-C4A-CHB-C1B
33	j5	201	CYC	C4B-C3B-CAB-CBB
33	j5	201	CYC	C2C-C3C-CAC-CBC
33	j5	201	CYC	C4C-C3C-CAC-CBC
33	j5	201	CYC	C3D-CAD-CBD-CGD
33	j5	202	CYC	C3A-C2A-CAA-CBA
33	j5	202	CYC	ND-C1D-CHD-C4C
33	j5	202	CYC	C2D-C1D-CHD-C4C
33	j5	202	CYC	C2D-C3D-CAD-CBD
33	j5	202	CYC	C4D-C3D-CAD-CBD
33	k5	201	CYC	NA-C4A-CHB-C1B
33	k5	201	CYC	C3A-C4A-CHB-C1B
33	k5	201	CYC	C2C-C3C-CAC-CBC
33	k5	201	CYC	C4C-C3C-CAC-CBC
33	l5	201	CYC	ND-C4D-CHA-C1A
33	l5	201	CYC	C3D-C4D-CHA-C1A
33	l5	201	CYC	NA-C4A-CHB-C1B
33	l5	201	CYC	C3A-C4A-CHB-C1B
33	l5	201	CYC	C4B-C3B-CAB-CBB
33	l5	201	CYC	C2C-C3C-CAC-CBC
33	l5	201	CYC	C4C-C3C-CAC-CBC
33	l5	201	CYC	C3D-CAD-CBD-CGD
33	m5	201	CYC	C3A-C2A-CAA-CBA
33	m5	201	CYC	ND-C1D-CHD-C4C
33	m5	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
33	m5	201	CYC	C2D-C3D-CAD-CBD
33	m5	201	CYC	C4D-C3D-CAD-CBD
33	b6	201	CYC	ND-C4D-CHA-C1A
33	b6	201	CYC	C3D-C4D-CHA-C1A
33	b6	201	CYC	NA-C4A-CHB-C1B
33	b6	201	CYC	C3A-C4A-CHB-C1B
33	b6	201	CYC	C4B-C3B-CAB-CBB
33	b6	201	CYC	C2C-C3C-CAC-CBC
33	b6	201	CYC	C4C-C3C-CAC-CBC
33	b6	201	CYC	C3D-CAD-CBD-CGD
33	c6	201	CYC	NA-C4A-CHB-C1B
33	c6	201	CYC	C3A-C4A-CHB-C1B
33	c6	201	CYC	C2C-C3C-CAC-CBC
33	c6	201	CYC	C4C-C3C-CAC-CBC
33	c6	202	CYC	C3A-C2A-CAA-CBA
33	c6	202	CYC	ND-C1D-CHD-C4C
33	c6	202	CYC	C2D-C1D-CHD-C4C
33	c6	202	CYC	C2D-C3D-CAD-CBD
33	c6	202	CYC	C4D-C3D-CAD-CBD
33	d6	201	CYC	ND-C4D-CHA-C1A
33	d6	201	CYC	C3D-C4D-CHA-C1A
33	d6	201	CYC	NA-C4A-CHB-C1B
33	d6	201	CYC	C3A-C4A-CHB-C1B
33	d6	201	CYC	C4B-C3B-CAB-CBB
33	d6	201	CYC	C2C-C3C-CAC-CBC
33	d6	201	CYC	C4C-C3C-CAC-CBC
33	d6	201	CYC	C3D-CAD-CBD-CGD
33	e6	201	CYC	NA-C4A-CHB-C1B
33	e6	201	CYC	C3A-C4A-CHB-C1B
33	e6	201	CYC	C2C-C3C-CAC-CBC
33	e6	201	CYC	C4C-C3C-CAC-CBC
33	e6	202	CYC	C3A-C2A-CAA-CBA
33	e6	202	CYC	ND-C1D-CHD-C4C
33	e6	202	CYC	C2D-C1D-CHD-C4C
33	e6	202	CYC	C2D-C3D-CAD-CBD
33	e6	202	CYC	C4D-C3D-CAD-CBD
33	f6	201	CYC	ND-C4D-CHA-C1A
33	f6	201	CYC	C3D-C4D-CHA-C1A
33	f6	201	CYC	NA-C4A-CHB-C1B
33	f6	201	CYC	C3A-C4A-CHB-C1B
33	f6	201	CYC	C4B-C3B-CAB-CBB
33	f6	201	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	f6	201	CYC	C4C-C3C-CAC-CBC
33	f6	201	CYC	C3D-CAD-CBD-CGD
33	g6	201	CYC	C3A-C2A-CAA-CBA
33	g6	201	CYC	ND-C1D-CHD-C4C
33	g6	201	CYC	C2D-C1D-CHD-C4C
33	g6	201	CYC	C2D-C3D-CAD-CBD
33	g6	201	CYC	C4D-C3D-CAD-CBD
33	h6	201	CYC	ND-C4D-CHA-C1A
33	h6	201	CYC	C3D-C4D-CHA-C1A
33	h6	201	CYC	NA-C4A-CHB-C1B
33	h6	201	CYC	C3A-C4A-CHB-C1B
33	h6	201	CYC	C4B-C3B-CAB-CBB
33	h6	201	CYC	C2C-C3C-CAC-CBC
33	h6	201	CYC	C4C-C3C-CAC-CBC
33	h6	201	CYC	C3D-CAD-CBD-CGD
33	i6	201	CYC	C3A-C2A-CAA-CBA
33	i6	201	CYC	ND-C1D-CHD-C4C
33	i6	201	CYC	C2D-C1D-CHD-C4C
33	i6	201	CYC	C2D-C3D-CAD-CBD
33	i6	201	CYC	C4D-C3D-CAD-CBD
33	i6	202	CYC	NA-C4A-CHB-C1B
33	i6	202	CYC	C3A-C4A-CHB-C1B
33	i6	202	CYC	C2C-C3C-CAC-CBC
33	i6	202	CYC	C4C-C3C-CAC-CBC
33	j6	201	CYC	ND-C4D-CHA-C1A
33	j6	201	CYC	C3D-C4D-CHA-C1A
33	j6	201	CYC	NA-C4A-CHB-C1B
33	j6	201	CYC	C3A-C4A-CHB-C1B
33	j6	201	CYC	C4B-C3B-CAB-CBB
33	j6	201	CYC	C2C-C3C-CAC-CBC
33	j6	201	CYC	C4C-C3C-CAC-CBC
33	j6	201	CYC	C3D-CAD-CBD-CGD
33	j6	202	CYC	C3A-C2A-CAA-CBA
33	j6	202	CYC	ND-C1D-CHD-C4C
33	j6	202	CYC	C2D-C1D-CHD-C4C
33	j6	202	CYC	C2D-C3D-CAD-CBD
33	j6	202	CYC	C4D-C3D-CAD-CBD
33	k6	201	CYC	NA-C4A-CHB-C1B
33	k6	201	CYC	C3A-C4A-CHB-C1B
33	k6	201	CYC	C2C-C3C-CAC-CBC
33	k6	201	CYC	C4C-C3C-CAC-CBC
33	l6	201	CYC	ND-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
33	l6	201	CYC	C3D-C4D-CHA-C1A
33	l6	201	CYC	NA-C4A-CHB-C1B
33	l6	201	CYC	C3A-C4A-CHB-C1B
33	l6	201	CYC	C4B-C3B-CAB-CBB
33	l6	201	CYC	C2C-C3C-CAC-CBC
33	l6	201	CYC	C4C-C3C-CAC-CBC
33	l6	201	CYC	C3D-CAD-CBD-CGD
33	m6	201	CYC	C3A-C2A-CAA-CBA
33	m6	201	CYC	ND-C1D-CHD-C4C
33	m6	201	CYC	C2D-C1D-CHD-C4C
33	m6	201	CYC	C2D-C3D-CAD-CBD
33	m6	201	CYC	C4D-C3D-CAD-CBD
33	B6	301	CYC	NA-C4A-CHB-C1B
33	B6	301	CYC	C3A-C4A-CHB-C1B
33	B6	301	CYC	C2C-C3C-CAC-CBC
33	B6	301	CYC	C4C-C3C-CAC-CBC
33	b7	201	CYC	ND-C4D-CHA-C1A
33	b7	201	CYC	C3D-C4D-CHA-C1A
33	b7	201	CYC	NA-C4A-CHB-C1B
33	b7	201	CYC	C3A-C4A-CHB-C1B
33	b7	201	CYC	C4B-C3B-CAB-CBB
33	b7	201	CYC	C2C-C3C-CAC-CBC
33	b7	201	CYC	C4C-C3C-CAC-CBC
33	b7	201	CYC	C3D-CAD-CBD-CGD
33	c7	201	CYC	NA-C4A-CHB-C1B
33	c7	201	CYC	C3A-C4A-CHB-C1B
33	c7	201	CYC	C2C-C3C-CAC-CBC
33	c7	201	CYC	C4C-C3C-CAC-CBC
33	c7	202	CYC	C3A-C2A-CAA-CBA
33	c7	202	CYC	ND-C1D-CHD-C4C
33	c7	202	CYC	C2D-C1D-CHD-C4C
33	c7	202	CYC	C2D-C3D-CAD-CBD
33	c7	202	CYC	C4D-C3D-CAD-CBD
33	d7	201	CYC	ND-C4D-CHA-C1A
33	d7	201	CYC	C3D-C4D-CHA-C1A
33	d7	201	CYC	NA-C4A-CHB-C1B
33	d7	201	CYC	C3A-C4A-CHB-C1B
33	d7	201	CYC	C4B-C3B-CAB-CBB
33	d7	201	CYC	C2C-C3C-CAC-CBC
33	d7	201	CYC	C4C-C3C-CAC-CBC
33	d7	201	CYC	C3D-CAD-CBD-CGD
33	e7	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	e7	201	CYC	C3A-C4A-CHB-C1B
33	e7	201	CYC	C2C-C3C-CAC-CBC
33	e7	201	CYC	C4C-C3C-CAC-CBC
33	e7	202	CYC	C3A-C2A-CAA-CBA
33	e7	202	CYC	ND-C1D-CHD-C4C
33	e7	202	CYC	C2D-C1D-CHD-C4C
33	e7	202	CYC	C2D-C3D-CAD-CBD
33	e7	202	CYC	C4D-C3D-CAD-CBD
33	f7	201	CYC	ND-C4D-CHA-C1A
33	f7	201	CYC	C3D-C4D-CHA-C1A
33	f7	201	CYC	NA-C4A-CHB-C1B
33	f7	201	CYC	C3A-C4A-CHB-C1B
33	f7	201	CYC	C4B-C3B-CAB-CBB
33	f7	201	CYC	C2C-C3C-CAC-CBC
33	f7	201	CYC	C4C-C3C-CAC-CBC
33	f7	201	CYC	C3D-CAD-CBD-CGD
33	g7	201	CYC	C3A-C2A-CAA-CBA
33	g7	201	CYC	ND-C1D-CHD-C4C
33	g7	201	CYC	C2D-C1D-CHD-C4C
33	g7	201	CYC	C2D-C3D-CAD-CBD
33	g7	201	CYC	C4D-C3D-CAD-CBD
33	h7	201	CYC	ND-C4D-CHA-C1A
33	h7	201	CYC	C3D-C4D-CHA-C1A
33	h7	201	CYC	NA-C4A-CHB-C1B
33	h7	201	CYC	C3A-C4A-CHB-C1B
33	h7	201	CYC	C4B-C3B-CAB-CBB
33	h7	201	CYC	C2C-C3C-CAC-CBC
33	h7	201	CYC	C4C-C3C-CAC-CBC
33	h7	201	CYC	C3D-CAD-CBD-CGD
33	i7	201	CYC	C3A-C2A-CAA-CBA
33	i7	201	CYC	ND-C1D-CHD-C4C
33	i7	201	CYC	C2D-C1D-CHD-C4C
33	i7	201	CYC	C2D-C3D-CAD-CBD
33	i7	201	CYC	C4D-C3D-CAD-CBD
33	i7	202	CYC	NA-C4A-CHB-C1B
33	i7	202	CYC	C3A-C4A-CHB-C1B
33	i7	202	CYC	C2C-C3C-CAC-CBC
33	i7	202	CYC	C4C-C3C-CAC-CBC
33	j7	201	CYC	ND-C4D-CHA-C1A
33	j7	201	CYC	C3D-C4D-CHA-C1A
33	j7	201	CYC	NA-C4A-CHB-C1B
33	j7	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	j7	201	CYC	C4B-C3B-CAB-CBB
33	j7	201	CYC	C2C-C3C-CAC-CBC
33	j7	201	CYC	C4C-C3C-CAC-CBC
33	j7	201	CYC	C3D-CAD-CBD-CGD
33	j7	202	CYC	C3A-C2A-CAA-CBA
33	j7	202	CYC	ND-C1D-CHD-C4C
33	j7	202	CYC	C2D-C1D-CHD-C4C
33	j7	202	CYC	C2D-C3D-CAD-CBD
33	j7	202	CYC	C4D-C3D-CAD-CBD
33	k7	201	CYC	NA-C4A-CHB-C1B
33	k7	201	CYC	C3A-C4A-CHB-C1B
33	k7	201	CYC	C2C-C3C-CAC-CBC
33	k7	201	CYC	C4C-C3C-CAC-CBC
33	l7	201	CYC	ND-C4D-CHA-C1A
33	l7	201	CYC	C3D-C4D-CHA-C1A
33	l7	201	CYC	NA-C4A-CHB-C1B
33	l7	201	CYC	C3A-C4A-CHB-C1B
33	l7	201	CYC	C4B-C3B-CAB-CBB
33	l7	201	CYC	C2C-C3C-CAC-CBC
33	l7	201	CYC	C4C-C3C-CAC-CBC
33	l7	201	CYC	C3D-CAD-CBD-CGD
33	m7	201	CYC	C3A-C2A-CAA-CBA
33	m7	201	CYC	ND-C1D-CHD-C4C
33	m7	201	CYC	C2D-C1D-CHD-C4C
33	m7	201	CYC	C2D-C3D-CAD-CBD
33	m7	201	CYC	C4D-C3D-CAD-CBD
33	B7	301	CYC	NA-C4A-CHB-C1B
33	B7	301	CYC	C3A-C4A-CHB-C1B
33	B7	301	CYC	C2C-C3C-CAC-CBC
33	B7	301	CYC	C4C-C3C-CAC-CBC
33	b8	201	CYC	ND-C4D-CHA-C1A
33	b8	201	CYC	C3D-C4D-CHA-C1A
33	b8	201	CYC	NA-C4A-CHB-C1B
33	b8	201	CYC	C3A-C4A-CHB-C1B
33	b8	201	CYC	C4B-C3B-CAB-CBB
33	b8	201	CYC	C2C-C3C-CAC-CBC
33	b8	201	CYC	C4C-C3C-CAC-CBC
33	b8	201	CYC	C3D-CAD-CBD-CGD
33	c8	201	CYC	NA-C4A-CHB-C1B
33	c8	201	CYC	C3A-C4A-CHB-C1B
33	c8	201	CYC	C2C-C3C-CAC-CBC
33	c8	201	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	c8	202	CYC	C3A-C2A-CAA-CBA
33	c8	202	CYC	ND-C1D-CHD-C4C
33	c8	202	CYC	C2D-C1D-CHD-C4C
33	c8	202	CYC	C2D-C3D-CAD-CBD
33	c8	202	CYC	C4D-C3D-CAD-CBD
33	d8	201	CYC	ND-C4D-CHA-C1A
33	d8	201	CYC	C3D-C4D-CHA-C1A
33	d8	201	CYC	NA-C4A-CHB-C1B
33	d8	201	CYC	C3A-C4A-CHB-C1B
33	d8	201	CYC	C4B-C3B-CAB-CBB
33	d8	201	CYC	C2C-C3C-CAC-CBC
33	d8	201	CYC	C4C-C3C-CAC-CBC
33	d8	201	CYC	C3D-CAD-CBD-CGD
33	e8	201	CYC	NA-C4A-CHB-C1B
33	e8	201	CYC	C3A-C4A-CHB-C1B
33	e8	201	CYC	C2C-C3C-CAC-CBC
33	e8	201	CYC	C4C-C3C-CAC-CBC
33	e8	202	CYC	C3A-C2A-CAA-CBA
33	e8	202	CYC	ND-C1D-CHD-C4C
33	e8	202	CYC	C2D-C1D-CHD-C4C
33	e8	202	CYC	C2D-C3D-CAD-CBD
33	e8	202	CYC	C4D-C3D-CAD-CBD
33	f8	201	CYC	ND-C4D-CHA-C1A
33	f8	201	CYC	C3D-C4D-CHA-C1A
33	f8	201	CYC	NA-C4A-CHB-C1B
33	f8	201	CYC	C3A-C4A-CHB-C1B
33	f8	201	CYC	C4B-C3B-CAB-CBB
33	f8	201	CYC	C2C-C3C-CAC-CBC
33	f8	201	CYC	C4C-C3C-CAC-CBC
33	f8	201	CYC	C3D-CAD-CBD-CGD
33	g8	201	CYC	C3A-C2A-CAA-CBA
33	g8	201	CYC	ND-C1D-CHD-C4C
33	g8	201	CYC	C2D-C1D-CHD-C4C
33	g8	201	CYC	C2D-C3D-CAD-CBD
33	g8	201	CYC	C4D-C3D-CAD-CBD
33	g8	202	CYC	NA-C4A-CHB-C1B
33	g8	202	CYC	C3A-C4A-CHB-C1B
33	g8	202	CYC	C2C-C3C-CAC-CBC
33	g8	202	CYC	C4C-C3C-CAC-CBC
33	h8	201	CYC	ND-C4D-CHA-C1A
33	h8	201	CYC	C3D-C4D-CHA-C1A
33	h8	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	h8	201	CYC	C3A-C4A-CHB-C1B
33	h8	201	CYC	C4B-C3B-CAB-CBB
33	h8	201	CYC	C2C-C3C-CAC-CBC
33	h8	201	CYC	C4C-C3C-CAC-CBC
33	h8	201	CYC	C3D-CAD-CBD-CGD
33	i8	201	CYC	C3A-C2A-CAA-CBA
33	i8	201	CYC	ND-C1D-CHD-C4C
33	i8	201	CYC	C2D-C1D-CHD-C4C
33	i8	201	CYC	C2D-C3D-CAD-CBD
33	i8	201	CYC	C4D-C3D-CAD-CBD
33	i8	202	CYC	NA-C4A-CHB-C1B
33	i8	202	CYC	C3A-C4A-CHB-C1B
33	i8	202	CYC	C2C-C3C-CAC-CBC
33	i8	202	CYC	C4C-C3C-CAC-CBC
33	j8	201	CYC	ND-C4D-CHA-C1A
33	j8	201	CYC	C3D-C4D-CHA-C1A
33	j8	201	CYC	NA-C4A-CHB-C1B
33	j8	201	CYC	C3A-C4A-CHB-C1B
33	j8	201	CYC	C4B-C3B-CAB-CBB
33	j8	201	CYC	C2C-C3C-CAC-CBC
33	j8	201	CYC	C4C-C3C-CAC-CBC
33	j8	201	CYC	C3D-CAD-CBD-CGD
33	j8	202	CYC	C3A-C2A-CAA-CBA
33	j8	202	CYC	ND-C1D-CHD-C4C
33	j8	202	CYC	C2D-C1D-CHD-C4C
33	j8	202	CYC	C2D-C3D-CAD-CBD
33	j8	202	CYC	C4D-C3D-CAD-CBD
33	k8	201	CYC	NA-C4A-CHB-C1B
33	k8	201	CYC	C3A-C4A-CHB-C1B
33	k8	201	CYC	C2C-C3C-CAC-CBC
33	k8	201	CYC	C4C-C3C-CAC-CBC
33	l8	201	CYC	ND-C4D-CHA-C1A
33	l8	201	CYC	C3D-C4D-CHA-C1A
33	l8	201	CYC	NA-C4A-CHB-C1B
33	l8	201	CYC	C3A-C4A-CHB-C1B
33	l8	201	CYC	C4B-C3B-CAB-CBB
33	l8	201	CYC	C2C-C3C-CAC-CBC
33	l8	201	CYC	C4C-C3C-CAC-CBC
33	l8	201	CYC	C3D-CAD-CBD-CGD
33	m8	201	CYC	C3A-C2A-CAA-CBA
33	m8	201	CYC	ND-C1D-CHD-C4C
33	m8	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
33	m8	201	CYC	C2D-C3D-CAD-CBD
33	m8	201	CYC	C4D-C3D-CAD-CBD
33	b9	201	CYC	ND-C4D-CHA-C1A
33	b9	201	CYC	C3D-C4D-CHA-C1A
33	b9	201	CYC	NA-C4A-CHB-C1B
33	b9	201	CYC	C3A-C4A-CHB-C1B
33	b9	201	CYC	C4B-C3B-CAB-CBB
33	b9	201	CYC	C2C-C3C-CAC-CBC
33	b9	201	CYC	C4C-C3C-CAC-CBC
33	b9	201	CYC	C3D-CAD-CBD-CGD
33	c9	201	CYC	NA-C4A-CHB-C1B
33	c9	201	CYC	C3A-C4A-CHB-C1B
33	c9	201	CYC	C2C-C3C-CAC-CBC
33	c9	201	CYC	C4C-C3C-CAC-CBC
33	c9	202	CYC	C3A-C2A-CAA-CBA
33	c9	202	CYC	ND-C1D-CHD-C4C
33	c9	202	CYC	C2D-C1D-CHD-C4C
33	c9	202	CYC	C2D-C3D-CAD-CBD
33	c9	202	CYC	C4D-C3D-CAD-CBD
33	d9	201	CYC	ND-C4D-CHA-C1A
33	d9	201	CYC	C3D-C4D-CHA-C1A
33	d9	201	CYC	NA-C4A-CHB-C1B
33	d9	201	CYC	C3A-C4A-CHB-C1B
33	d9	201	CYC	C4B-C3B-CAB-CBB
33	d9	201	CYC	C2C-C3C-CAC-CBC
33	d9	201	CYC	C4C-C3C-CAC-CBC
33	d9	201	CYC	C3D-CAD-CBD-CGD
33	e9	201	CYC	NA-C4A-CHB-C1B
33	e9	201	CYC	C3A-C4A-CHB-C1B
33	e9	201	CYC	C2C-C3C-CAC-CBC
33	e9	201	CYC	C4C-C3C-CAC-CBC
33	e9	202	CYC	C3A-C2A-CAA-CBA
33	e9	202	CYC	ND-C1D-CHD-C4C
33	e9	202	CYC	C2D-C1D-CHD-C4C
33	e9	202	CYC	C2D-C3D-CAD-CBD
33	e9	202	CYC	C4D-C3D-CAD-CBD
33	f9	201	CYC	ND-C4D-CHA-C1A
33	f9	201	CYC	C3D-C4D-CHA-C1A
33	f9	201	CYC	NA-C4A-CHB-C1B
33	f9	201	CYC	C3A-C4A-CHB-C1B
33	f9	201	CYC	C4B-C3B-CAB-CBB
33	f9	201	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	f9	201	CYC	C4C-C3C-CAC-CBC
33	f9	201	CYC	C3D-CAD-CBD-CGD
33	g9	201	CYC	C3A-C2A-CAA-CBA
33	g9	201	CYC	ND-C1D-CHD-C4C
33	g9	201	CYC	C2D-C1D-CHD-C4C
33	g9	201	CYC	C2D-C3D-CAD-CBD
33	g9	201	CYC	C4D-C3D-CAD-CBD
33	h9	201	CYC	ND-C4D-CHA-C1A
33	h9	201	CYC	C3D-C4D-CHA-C1A
33	h9	201	CYC	NA-C4A-CHB-C1B
33	h9	201	CYC	C3A-C4A-CHB-C1B
33	h9	201	CYC	C4B-C3B-CAB-CBB
33	h9	201	CYC	C2C-C3C-CAC-CBC
33	h9	201	CYC	C4C-C3C-CAC-CBC
33	h9	201	CYC	C3D-CAD-CBD-CGD
33	i9	201	CYC	C3A-C2A-CAA-CBA
33	i9	201	CYC	ND-C1D-CHD-C4C
33	i9	201	CYC	C2D-C1D-CHD-C4C
33	i9	201	CYC	C2D-C3D-CAD-CBD
33	i9	201	CYC	C4D-C3D-CAD-CBD
33	i9	202	CYC	NA-C4A-CHB-C1B
33	i9	202	CYC	C3A-C4A-CHB-C1B
33	i9	202	CYC	C2C-C3C-CAC-CBC
33	i9	202	CYC	C4C-C3C-CAC-CBC
33	j9	201	CYC	ND-C4D-CHA-C1A
33	j9	201	CYC	C3D-C4D-CHA-C1A
33	j9	201	CYC	NA-C4A-CHB-C1B
33	j9	201	CYC	C3A-C4A-CHB-C1B
33	j9	201	CYC	C4B-C3B-CAB-CBB
33	j9	201	CYC	C2C-C3C-CAC-CBC
33	j9	201	CYC	C4C-C3C-CAC-CBC
33	j9	201	CYC	C3D-CAD-CBD-CGD
33	j9	202	CYC	C3A-C2A-CAA-CBA
33	j9	202	CYC	ND-C1D-CHD-C4C
33	j9	202	CYC	C2D-C1D-CHD-C4C
33	j9	202	CYC	C2D-C3D-CAD-CBD
33	j9	202	CYC	C4D-C3D-CAD-CBD
33	k9	201	CYC	NA-C4A-CHB-C1B
33	k9	201	CYC	C3A-C4A-CHB-C1B
33	k9	201	CYC	C2C-C3C-CAC-CBC
33	k9	201	CYC	C4C-C3C-CAC-CBC
33	l9	201	CYC	ND-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
33	l9	201	CYC	C3D-C4D-CHA-C1A
33	l9	201	CYC	NA-C4A-CHB-C1B
33	l9	201	CYC	C3A-C4A-CHB-C1B
33	l9	201	CYC	C4B-C3B-CAB-CBB
33	l9	201	CYC	C2C-C3C-CAC-CBC
33	l9	201	CYC	C4C-C3C-CAC-CBC
33	l9	201	CYC	C3D-CAD-CBD-CGD
33	m9	201	CYC	C3A-C2A-CAA-CBA
33	m9	201	CYC	ND-C1D-CHD-C4C
33	m9	201	CYC	C2D-C1D-CHD-C4C
33	m9	201	CYC	C2D-C3D-CAD-CBD
33	m9	201	CYC	C4D-C3D-CAD-CBD
33	B9	301	CYC	NA-C4A-CHB-C1B
33	B9	301	CYC	C3A-C4A-CHB-C1B
33	B9	301	CYC	C2C-C3C-CAC-CBC
33	B9	301	CYC	C4C-C3C-CAC-CBC
33	bA	201	CYC	ND-C4D-CHA-C1A
33	bA	201	CYC	C3D-C4D-CHA-C1A
33	bA	201	CYC	NA-C4A-CHB-C1B
33	bA	201	CYC	C3A-C4A-CHB-C1B
33	bA	201	CYC	C4B-C3B-CAB-CBB
33	bA	201	CYC	C2C-C3C-CAC-CBC
33	bA	201	CYC	C4C-C3C-CAC-CBC
33	bA	201	CYC	C3D-CAD-CBD-CGD
33	cA	201	CYC	NA-C4A-CHB-C1B
33	cA	201	CYC	C3A-C4A-CHB-C1B
33	cA	201	CYC	C2C-C3C-CAC-CBC
33	cA	201	CYC	C4C-C3C-CAC-CBC
33	cA	202	CYC	C3A-C2A-CAA-CBA
33	cA	202	CYC	ND-C1D-CHD-C4C
33	cA	202	CYC	C2D-C1D-CHD-C4C
33	cA	202	CYC	C2D-C3D-CAD-CBD
33	cA	202	CYC	C4D-C3D-CAD-CBD
33	dA	201	CYC	ND-C4D-CHA-C1A
33	dA	201	CYC	C3D-C4D-CHA-C1A
33	dA	201	CYC	NA-C4A-CHB-C1B
33	dA	201	CYC	C3A-C4A-CHB-C1B
33	dA	201	CYC	C4B-C3B-CAB-CBB
33	dA	201	CYC	C2C-C3C-CAC-CBC
33	dA	201	CYC	C4C-C3C-CAC-CBC
33	dA	201	CYC	C3D-CAD-CBD-CGD
33	eA	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	eA	201	CYC	C3A-C4A-CHB-C1B
33	eA	201	CYC	C2C-C3C-CAC-CBC
33	eA	201	CYC	C4C-C3C-CAC-CBC
33	eA	202	CYC	C3A-C2A-CAA-CBA
33	eA	202	CYC	ND-C1D-CHD-C4C
33	eA	202	CYC	C2D-C1D-CHD-C4C
33	eA	202	CYC	C2D-C3D-CAD-CBD
33	eA	202	CYC	C4D-C3D-CAD-CBD
33	fA	201	CYC	ND-C4D-CHA-C1A
33	fA	201	CYC	C3D-C4D-CHA-C1A
33	fA	201	CYC	NA-C4A-CHB-C1B
33	fA	201	CYC	C3A-C4A-CHB-C1B
33	fA	201	CYC	C4B-C3B-CAB-CBB
33	fA	201	CYC	C2C-C3C-CAC-CBC
33	fA	201	CYC	C4C-C3C-CAC-CBC
33	fA	201	CYC	C3D-CAD-CBD-CGD
33	gA	201	CYC	C3A-C2A-CAA-CBA
33	gA	201	CYC	ND-C1D-CHD-C4C
33	gA	201	CYC	C2D-C1D-CHD-C4C
33	gA	201	CYC	C2D-C3D-CAD-CBD
33	gA	201	CYC	C4D-C3D-CAD-CBD
33	hA	201	CYC	ND-C4D-CHA-C1A
33	hA	201	CYC	C3D-C4D-CHA-C1A
33	hA	201	CYC	NA-C4A-CHB-C1B
33	hA	201	CYC	C3A-C4A-CHB-C1B
33	hA	201	CYC	C4B-C3B-CAB-CBB
33	hA	201	CYC	C2C-C3C-CAC-CBC
33	hA	201	CYC	C4C-C3C-CAC-CBC
33	hA	201	CYC	C3D-CAD-CBD-CGD
33	iA	201	CYC	C3A-C2A-CAA-CBA
33	iA	201	CYC	ND-C1D-CHD-C4C
33	iA	201	CYC	C2D-C1D-CHD-C4C
33	iA	201	CYC	C2D-C3D-CAD-CBD
33	iA	201	CYC	C4D-C3D-CAD-CBD
33	iA	202	CYC	NA-C4A-CHB-C1B
33	iA	202	CYC	C3A-C4A-CHB-C1B
33	iA	202	CYC	C2C-C3C-CAC-CBC
33	iA	202	CYC	C4C-C3C-CAC-CBC
33	jA	201	CYC	ND-C4D-CHA-C1A
33	jA	201	CYC	C3D-C4D-CHA-C1A
33	jA	201	CYC	NA-C4A-CHB-C1B
33	jA	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	jA	201	CYC	C4B-C3B-CAB-CBB
33	jA	201	CYC	C2C-C3C-CAC-CBC
33	jA	201	CYC	C4C-C3C-CAC-CBC
33	jA	201	CYC	C3D-CAD-CBD-CGD
33	jA	202	CYC	C3A-C2A-CAA-CBA
33	jA	202	CYC	ND-C1D-CHD-C4C
33	jA	202	CYC	C2D-C1D-CHD-C4C
33	jA	202	CYC	C2D-C3D-CAD-CBD
33	jA	202	CYC	C4D-C3D-CAD-CBD
33	kA	201	CYC	NA-C4A-CHB-C1B
33	kA	201	CYC	C3A-C4A-CHB-C1B
33	kA	201	CYC	C2C-C3C-CAC-CBC
33	kA	201	CYC	C4C-C3C-CAC-CBC
33	lA	201	CYC	ND-C4D-CHA-C1A
33	lA	201	CYC	C3D-C4D-CHA-C1A
33	lA	201	CYC	NA-C4A-CHB-C1B
33	lA	201	CYC	C3A-C4A-CHB-C1B
33	lA	201	CYC	C4B-C3B-CAB-CBB
33	lA	201	CYC	C2C-C3C-CAC-CBC
33	lA	201	CYC	C4C-C3C-CAC-CBC
33	lA	201	CYC	C3D-CAD-CBD-CGD
33	mA	201	CYC	C3A-C2A-CAA-CBA
33	mA	201	CYC	ND-C1D-CHD-C4C
33	mA	201	CYC	C2D-C1D-CHD-C4C
33	mA	201	CYC	C2D-C3D-CAD-CBD
33	mA	201	CYC	C4D-C3D-CAD-CBD
33	aB	201	CYC	NA-C4A-CHB-C1B
33	bB	101	CYC	C2C-C3C-CAC-CBC
33	bB	101	CYC	ND-C1D-CHD-C4C
33	bB	101	CYC	C2D-C1D-CHD-C4C
33	sB	201	CYC	NA-C4A-CHB-C1B
33	sB	201	CYC	C3A-C4A-CHB-C1B
33	sB	201	CYC	C2C-C3C-CAC-CBC
33	sB	201	CYC	C4C-C3C-CAC-CBC
33	sB	201	CYC	ND-C1D-CHD-C4C
33	sB	201	CYC	C2D-C1D-CHD-C4C
33	uB	201	CYC	NA-C4A-CHB-C1B
33	uB	201	CYC	C3A-C4A-CHB-C1B
33	uB	201	CYC	ND-C1D-CHD-C4C
33	uB	201	CYC	C2D-C1D-CHD-C4C
33	vB	201	CYC	NA-C4A-CHB-C1B
33	vB	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	vB	201	CYC	C2C-C3C-CAC-CBC
33	vB	201	CYC	C4C-C3C-CAC-CBC
33	vB	201	CYC	ND-C1D-CHD-C4C
33	vB	201	CYC	C2D-C1D-CHD-C4C
33	wB	201	CYC	NA-C4A-CHB-C1B
33	wB	201	CYC	C3A-C4A-CHB-C1B
33	wB	201	CYC	C2C-C3C-CAC-CBC
33	wB	201	CYC	C4C-C3C-CAC-CBC
33	oB	201	CYC	NA-C4A-CHB-C1B
33	oB	201	CYC	C3A-C4A-CHB-C1B
33	oB	201	CYC	C2C-C3C-CAC-CBC
33	oB	201	CYC	C4C-C3C-CAC-CBC
33	oB	201	CYC	ND-C1D-CHD-C4C
33	oB	201	CYC	C2D-C1D-CHD-C4C
33	qB	201	CYC	NA-C4A-CHB-C1B
33	qB	201	CYC	C3A-C4A-CHB-C1B
33	qB	201	CYC	C2C-C3C-CAC-CBC
33	qB	201	CYC	C4C-C3C-CAC-CBC
33	qB	201	CYC	ND-C1D-CHD-C4C
33	rB	201	CYC	C2D-C3D-CAD-CBD
33	rB	201	CYC	C4D-C3D-CAD-CBD
33	rB	201	CYC	C3D-CAD-CBD-CGD
33	yB	201	CYC	NA-C4A-CHB-C1B
33	yB	201	CYC	C3A-C4A-CHB-C1B
33	yB	201	CYC	C2C-C3C-CAC-CBC
33	yB	201	CYC	ND-C1D-CHD-C4C
33	yB	201	CYC	C2D-C1D-CHD-C4C
33	zB	201	CYC	NA-C4A-CHB-C1B
33	zB	201	CYC	C3A-C4A-CHB-C1B
33	zB	201	CYC	ND-C1D-CHD-C4C
33	zB	201	CYC	C2D-C1D-CHD-C4C
33	bC	201	CYC	ND-C4D-CHA-C1A
33	bC	201	CYC	C3D-C4D-CHA-C1A
33	bC	201	CYC	NA-C4A-CHB-C1B
33	bC	201	CYC	C3A-C4A-CHB-C1B
33	bC	201	CYC	C4B-C3B-CAB-CBB
33	bC	201	CYC	C2C-C3C-CAC-CBC
33	bC	201	CYC	C4C-C3C-CAC-CBC
33	bC	201	CYC	C3D-CAD-CBD-CGD
33	cC	201	CYC	NA-C4A-CHB-C1B
33	cC	201	CYC	C3A-C4A-CHB-C1B
33	cC	201	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	cC	201	CYC	C4C-C3C-CAC-CBC
33	cC	202	CYC	C3A-C2A-CAA-CBA
33	cC	202	CYC	ND-C1D-CHD-C4C
33	cC	202	CYC	C2D-C1D-CHD-C4C
33	cC	202	CYC	C2D-C3D-CAD-CBD
33	cC	202	CYC	C4D-C3D-CAD-CBD
33	dC	201	CYC	ND-C4D-CHA-C1A
33	dC	201	CYC	C3D-C4D-CHA-C1A
33	dC	201	CYC	NA-C4A-CHB-C1B
33	dC	201	CYC	C3A-C4A-CHB-C1B
33	dC	201	CYC	C4B-C3B-CAB-CBB
33	dC	201	CYC	C2C-C3C-CAC-CBC
33	dC	201	CYC	C4C-C3C-CAC-CBC
33	dC	201	CYC	C3D-CAD-CBD-CGD
33	eC	201	CYC	NA-C4A-CHB-C1B
33	eC	201	CYC	C3A-C4A-CHB-C1B
33	eC	201	CYC	C2C-C3C-CAC-CBC
33	eC	201	CYC	C4C-C3C-CAC-CBC
33	eC	202	CYC	C3A-C2A-CAA-CBA
33	eC	202	CYC	ND-C1D-CHD-C4C
33	eC	202	CYC	C2D-C1D-CHD-C4C
33	eC	202	CYC	C2D-C3D-CAD-CBD
33	eC	202	CYC	C4D-C3D-CAD-CBD
33	fC	201	CYC	ND-C4D-CHA-C1A
33	fC	201	CYC	C3D-C4D-CHA-C1A
33	fC	201	CYC	NA-C4A-CHB-C1B
33	fC	201	CYC	C3A-C4A-CHB-C1B
33	fC	201	CYC	C4B-C3B-CAB-CBB
33	fC	201	CYC	C2C-C3C-CAC-CBC
33	fC	201	CYC	C4C-C3C-CAC-CBC
33	fC	201	CYC	C3D-CAD-CBD-CGD
33	gC	201	CYC	C3A-C2A-CAA-CBA
33	gC	201	CYC	ND-C1D-CHD-C4C
33	gC	201	CYC	C2D-C1D-CHD-C4C
33	gC	201	CYC	C2D-C3D-CAD-CBD
33	gC	201	CYC	C4D-C3D-CAD-CBD
33	hC	201	CYC	ND-C4D-CHA-C1A
33	hC	201	CYC	C3D-C4D-CHA-C1A
33	hC	201	CYC	NA-C4A-CHB-C1B
33	hC	201	CYC	C3A-C4A-CHB-C1B
33	hC	201	CYC	C4B-C3B-CAB-CBB
33	hC	201	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	hC	201	CYC	C4C-C3C-CAC-CBC
33	hC	201	CYC	C3D-CAD-CBD-CGD
33	iC	201	CYC	C3A-C2A-CAA-CBA
33	iC	201	CYC	ND-C1D-CHD-C4C
33	iC	201	CYC	C2D-C1D-CHD-C4C
33	iC	201	CYC	C2D-C3D-CAD-CBD
33	iC	201	CYC	C4D-C3D-CAD-CBD
33	iC	202	CYC	NA-C4A-CHB-C1B
33	iC	202	CYC	C3A-C4A-CHB-C1B
33	iC	202	CYC	C2C-C3C-CAC-CBC
33	iC	202	CYC	C4C-C3C-CAC-CBC
33	jC	201	CYC	ND-C4D-CHA-C1A
33	jC	201	CYC	C3D-C4D-CHA-C1A
33	jC	201	CYC	NA-C4A-CHB-C1B
33	jC	201	CYC	C3A-C4A-CHB-C1B
33	jC	201	CYC	C4B-C3B-CAB-CBB
33	jC	201	CYC	C2C-C3C-CAC-CBC
33	jC	201	CYC	C4C-C3C-CAC-CBC
33	jC	201	CYC	C3D-CAD-CBD-CGD
33	jC	202	CYC	C3A-C2A-CAA-CBA
33	jC	202	CYC	ND-C1D-CHD-C4C
33	jC	202	CYC	C2D-C1D-CHD-C4C
33	jC	202	CYC	C2D-C3D-CAD-CBD
33	jC	202	CYC	C4D-C3D-CAD-CBD
33	kC	201	CYC	NA-C4A-CHB-C1B
33	kC	201	CYC	C3A-C4A-CHB-C1B
33	kC	201	CYC	C2C-C3C-CAC-CBC
33	kC	201	CYC	C4C-C3C-CAC-CBC
33	lC	201	CYC	ND-C4D-CHA-C1A
33	lC	201	CYC	C3D-C4D-CHA-C1A
33	lC	201	CYC	NA-C4A-CHB-C1B
33	lC	201	CYC	C3A-C4A-CHB-C1B
33	lC	201	CYC	C4B-C3B-CAB-CBB
33	lC	201	CYC	C2C-C3C-CAC-CBC
33	lC	201	CYC	C4C-C3C-CAC-CBC
33	lC	201	CYC	C3D-CAD-CBD-CGD
33	mC	201	CYC	C3A-C2A-CAA-CBA
33	mC	201	CYC	ND-C1D-CHD-C4C
33	mC	201	CYC	C2D-C1D-CHD-C4C
33	mC	201	CYC	C2D-C3D-CAD-CBD
33	mC	201	CYC	C4D-C3D-CAD-CBD
33	aF	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	aF	201	CYC	C3A-C4A-CHB-C1B
33	aF	201	CYC	C2C-C3C-CAC-CBC
33	aF	201	CYC	C4C-C3C-CAC-CBC
33	bF	201	CYC	C2C-C3C-CAC-CBC
33	bF	201	CYC	C4C-C3C-CAC-CBC
33	bF	201	CYC	C3D-CAD-CBD-CGD
33	cF	201	CYC	C3A-C4A-CHB-C1B
33	dF	201	CYC	NA-C4A-CHB-C1B
33	dF	201	CYC	C3A-C4A-CHB-C1B
33	dF	201	CYC	C2D-C1D-CHD-C4C
33	eF	201	CYC	C3A-C4A-CHB-C1B
33	eF	201	CYC	C2C-C3C-CAC-CBC
33	eF	201	CYC	C4C-C3C-CAC-CBC
33	3F	101	CYC	C2C-C3C-CAC-CBC
33	3F	101	CYC	C4C-C3C-CAC-CBC
33	3F	102	CYC	ND-C4D-CHA-C1A
33	3F	102	CYC	NA-C4A-CHB-C1B
33	3F	102	CYC	C3A-C4A-CHB-C1B
33	3F	102	CYC	C2D-C1D-CHD-C4C
33	fF	201	CYC	NA-C4A-CHB-C1B
33	fF	201	CYC	C3A-C4A-CHB-C1B
33	fF	201	CYC	C2C-C3C-CAC-CBC
33	fF	201	CYC	C4C-C3C-CAC-CBC
33	fF	201	CYC	C2D-C1D-CHD-C4C
33	gF	201	CYC	NA-C4A-CHB-C1B
33	gF	201	CYC	C3A-C4A-CHB-C1B
33	hF	201	CYC	NA-C4A-CHB-C1B
33	hF	201	CYC	C3A-C4A-CHB-C1B
33	hF	201	CYC	C2D-C1D-CHD-C4C
33	jF	201	CYC	NA-C4A-CHB-C1B
33	jF	201	CYC	C3A-C4A-CHB-C1B
33	kF	201	CYC	ND-C4D-CHA-C1A
33	kF	201	CYC	C3D-C4D-CHA-C1A
33	kF	201	CYC	NA-C4A-CHB-C1B
33	kF	201	CYC	C3A-C4A-CHB-C1B
33	kF	201	CYC	C2C-C3C-CAC-CBC
33	kF	201	CYC	C4C-C3C-CAC-CBC
33	mF	201	CYC	ND-C4D-CHA-C1A
33	mF	201	CYC	C3D-C4D-CHA-C1A
33	mF	201	CYC	NA-C4A-CHB-C1B
33	mF	201	CYC	C3A-C4A-CHB-C1B
33	mF	201	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	mF	201	CYC	C4C-C3C-CAC-CBC
33	mF	201	CYC	ND-C1D-CHD-C4C
33	nF	201	CYC	NA-C4A-CHB-C1B
33	nF	201	CYC	C3A-C4A-CHB-C1B
33	9F	201	CYC	NA-C4A-CHB-C1B
33	9F	201	CYC	C3A-C4A-CHB-C1B
33	2G	101	CYC	C2C-C3C-CAC-CBC
33	2G	101	CYC	ND-C1D-CHD-C4C
33	2G	101	CYC	C2D-C1D-CHD-C4C
33	1G	201	CYC	ND-C1D-CHD-C4C
33	1G	201	CYC	C2D-C1D-CHD-C4C
33	4G	201	CYC	C2C-C3C-CAC-CBC
33	4G	201	CYC	C4C-C3C-CAC-CBC
33	4G	201	CYC	ND-C1D-CHD-C4C
33	4G	201	CYC	C2D-C1D-CHD-C4C
33	5G	201	CYC	C2C-C3C-CAC-CBC
33	5G	201	CYC	C4C-C3C-CAC-CBC
33	5G	201	CYC	ND-C1D-CHD-C4C
33	5G	201	CYC	C2D-C1D-CHD-C4C
33	6G	201	CYC	NA-C4A-CHB-C1B
33	6G	201	CYC	C3A-C4A-CHB-C1B
33	6G	201	CYC	C2D-C1D-CHD-C4C
33	7G	201	CYC	C2C-C3C-CAC-CBC
33	7G	201	CYC	C4C-C3C-CAC-CBC
33	7G	201	CYC	ND-C1D-CHD-C4C
33	7G	201	CYC	C2D-C1D-CHD-C4C
33	bH	201	CYC	ND-C4D-CHA-C1A
33	bH	201	CYC	C3D-C4D-CHA-C1A
33	bH	201	CYC	NA-C4A-CHB-C1B
33	bH	201	CYC	C3A-C4A-CHB-C1B
33	bH	201	CYC	C4B-C3B-CAB-CBB
33	bH	201	CYC	C2C-C3C-CAC-CBC
33	bH	201	CYC	C4C-C3C-CAC-CBC
33	bH	201	CYC	C3D-CAD-CBD-CGD
33	cH	201	CYC	NA-C4A-CHB-C1B
33	cH	201	CYC	C3A-C4A-CHB-C1B
33	cH	201	CYC	C2C-C3C-CAC-CBC
33	cH	201	CYC	C4C-C3C-CAC-CBC
33	cH	202	CYC	C3A-C2A-CAA-CBA
33	cH	202	CYC	ND-C1D-CHD-C4C
33	cH	202	CYC	C2D-C1D-CHD-C4C
33	cH	202	CYC	C2D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
33	cH	202	CYC	C4D-C3D-CAD-CBD
33	dH	201	CYC	ND-C4D-CHA-C1A
33	dH	201	CYC	C3D-C4D-CHA-C1A
33	dH	201	CYC	NA-C4A-CHB-C1B
33	dH	201	CYC	C3A-C4A-CHB-C1B
33	dH	201	CYC	C4B-C3B-CAB-CBB
33	dH	201	CYC	C2C-C3C-CAC-CBC
33	dH	201	CYC	C4C-C3C-CAC-CBC
33	dH	201	CYC	C3D-CAD-CBD-CGD
33	eH	201	CYC	NA-C4A-CHB-C1B
33	eH	201	CYC	C3A-C4A-CHB-C1B
33	eH	201	CYC	C2C-C3C-CAC-CBC
33	eH	201	CYC	C4C-C3C-CAC-CBC
33	eH	202	CYC	C3A-C2A-CAA-CBA
33	eH	202	CYC	ND-C1D-CHD-C4C
33	eH	202	CYC	C2D-C1D-CHD-C4C
33	eH	202	CYC	C2D-C3D-CAD-CBD
33	eH	202	CYC	C4D-C3D-CAD-CBD
33	fH	201	CYC	ND-C4D-CHA-C1A
33	fH	201	CYC	C3D-C4D-CHA-C1A
33	fH	201	CYC	NA-C4A-CHB-C1B
33	fH	201	CYC	C3A-C4A-CHB-C1B
33	fH	201	CYC	C4B-C3B-CAB-CBB
33	fH	201	CYC	C2C-C3C-CAC-CBC
33	fH	201	CYC	C4C-C3C-CAC-CBC
33	fH	201	CYC	C3D-CAD-CBD-CGD
33	gH	201	CYC	C3A-C2A-CAA-CBA
33	gH	201	CYC	ND-C1D-CHD-C4C
33	gH	201	CYC	C2D-C1D-CHD-C4C
33	gH	201	CYC	C2D-C3D-CAD-CBD
33	gH	201	CYC	C4D-C3D-CAD-CBD
33	gH	202	CYC	NA-C4A-CHB-C1B
33	gH	202	CYC	C3A-C4A-CHB-C1B
33	gH	202	CYC	C2C-C3C-CAC-CBC
33	gH	202	CYC	C4C-C3C-CAC-CBC
33	hH	201	CYC	ND-C4D-CHA-C1A
33	hH	201	CYC	C3D-C4D-CHA-C1A
33	hH	201	CYC	NA-C4A-CHB-C1B
33	hH	201	CYC	C3A-C4A-CHB-C1B
33	hH	201	CYC	C4B-C3B-CAB-CBB
33	hH	201	CYC	C2C-C3C-CAC-CBC
33	hH	201	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	hH	201	CYC	C3D-CAD-CBD-CGD
33	iH	201	CYC	C3A-C2A-CAA-CBA
33	iH	201	CYC	ND-C1D-CHD-C4C
33	iH	201	CYC	C2D-C1D-CHD-C4C
33	iH	201	CYC	C2D-C3D-CAD-CBD
33	iH	201	CYC	C4D-C3D-CAD-CBD
33	iH	202	CYC	NA-C4A-CHB-C1B
33	iH	202	CYC	C3A-C4A-CHB-C1B
33	iH	202	CYC	C2C-C3C-CAC-CBC
33	iH	202	CYC	C4C-C3C-CAC-CBC
33	jH	201	CYC	ND-C4D-CHA-C1A
33	jH	201	CYC	C3D-C4D-CHA-C1A
33	jH	201	CYC	NA-C4A-CHB-C1B
33	jH	201	CYC	C3A-C4A-CHB-C1B
33	jH	201	CYC	C4B-C3B-CAB-CBB
33	jH	201	CYC	C2C-C3C-CAC-CBC
33	jH	201	CYC	C4C-C3C-CAC-CBC
33	jH	201	CYC	C3D-CAD-CBD-CGD
33	jH	202	CYC	C3A-C2A-CAA-CBA
33	jH	202	CYC	ND-C1D-CHD-C4C
33	jH	202	CYC	C2D-C1D-CHD-C4C
33	jH	202	CYC	C2D-C3D-CAD-CBD
33	jH	202	CYC	C4D-C3D-CAD-CBD
33	kH	201	CYC	NA-C4A-CHB-C1B
33	kH	201	CYC	C3A-C4A-CHB-C1B
33	kH	201	CYC	C2C-C3C-CAC-CBC
33	kH	201	CYC	C4C-C3C-CAC-CBC
33	lH	201	CYC	ND-C4D-CHA-C1A
33	lH	201	CYC	C3D-C4D-CHA-C1A
33	lH	201	CYC	NA-C4A-CHB-C1B
33	lH	201	CYC	C3A-C4A-CHB-C1B
33	lH	201	CYC	C4B-C3B-CAB-CBB
33	lH	201	CYC	C2C-C3C-CAC-CBC
33	lH	201	CYC	C4C-C3C-CAC-CBC
33	lH	201	CYC	C3D-CAD-CBD-CGD
33	mH	201	CYC	C3A-C2A-CAA-CBA
33	mH	201	CYC	ND-C1D-CHD-C4C
33	mH	201	CYC	C2D-C1D-CHD-C4C
33	mH	201	CYC	C2D-C3D-CAD-CBD
33	mH	201	CYC	C4D-C3D-CAD-CBD
33	bl	201	CYC	ND-C4D-CHA-C1A
33	bl	201	CYC	C3D-C4D-CHA-C1A

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Mol	Chain	Res	Type	Atoms
33	bI	201	CYC	NA-C4A-CHB-C1B
33	bI	201	CYC	C3A-C4A-CHB-C1B
33	bI	201	CYC	C4B-C3B-CAB-CBB
33	bI	201	CYC	C2C-C3C-CAC-CBC
33	bI	201	CYC	C4C-C3C-CAC-CBC
33	bI	201	CYC	C3D-CAD-CBD-CGD
33	cI	201	CYC	NA-C4A-CHB-C1B
33	cI	201	CYC	C3A-C4A-CHB-C1B
33	cI	201	CYC	C2C-C3C-CAC-CBC
33	cI	201	CYC	C4C-C3C-CAC-CBC
33	cI	202	CYC	C3A-C2A-CAA-CBA
33	cI	202	CYC	ND-C1D-CHD-C4C
33	cI	202	CYC	C2D-C1D-CHD-C4C
33	cI	202	CYC	C2D-C3D-CAD-CBD
33	cI	202	CYC	C4D-C3D-CAD-CBD
33	dI	201	CYC	ND-C4D-CHA-C1A
33	dI	201	CYC	C3D-C4D-CHA-C1A
33	dI	201	CYC	NA-C4A-CHB-C1B
33	dI	201	CYC	C3A-C4A-CHB-C1B
33	dI	201	CYC	C4B-C3B-CAB-CBB
33	dI	201	CYC	C2C-C3C-CAC-CBC
33	dI	201	CYC	C4C-C3C-CAC-CBC
33	dI	201	CYC	C3D-CAD-CBD-CGD
33	eI	201	CYC	NA-C4A-CHB-C1B
33	eI	201	CYC	C3A-C4A-CHB-C1B
33	eI	201	CYC	C2C-C3C-CAC-CBC
33	eI	201	CYC	C4C-C3C-CAC-CBC
33	eI	202	CYC	C3A-C2A-CAA-CBA
33	eI	202	CYC	ND-C1D-CHD-C4C
33	eI	202	CYC	C2D-C1D-CHD-C4C
33	eI	202	CYC	C2D-C3D-CAD-CBD
33	eI	202	CYC	C4D-C3D-CAD-CBD
33	fI	201	CYC	ND-C4D-CHA-C1A
33	fI	201	CYC	C3D-C4D-CHA-C1A
33	fI	201	CYC	NA-C4A-CHB-C1B
33	fI	201	CYC	C3A-C4A-CHB-C1B
33	fI	201	CYC	C4B-C3B-CAB-CBB
33	fI	201	CYC	C2C-C3C-CAC-CBC
33	fI	201	CYC	C4C-C3C-CAC-CBC
33	fI	201	CYC	C3D-CAD-CBD-CGD
33	gI	201	CYC	C3A-C2A-CAA-CBA
33	gI	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
33	gI	201	CYC	C2D-C1D-CHD-C4C
33	gI	201	CYC	C2D-C3D-CAD-CBD
33	gI	201	CYC	C4D-C3D-CAD-CBD
33	hI	201	CYC	ND-C4D-CHA-C1A
33	hI	201	CYC	C3D-C4D-CHA-C1A
33	hI	201	CYC	NA-C4A-CHB-C1B
33	hI	201	CYC	C3A-C4A-CHB-C1B
33	hI	201	CYC	C4B-C3B-CAB-CBB
33	hI	201	CYC	C2C-C3C-CAC-CBC
33	hI	201	CYC	C4C-C3C-CAC-CBC
33	hI	201	CYC	C3D-CAD-CBD-CGD
33	iI	201	CYC	C3A-C2A-CAA-CBA
33	iI	201	CYC	ND-C1D-CHD-C4C
33	iI	201	CYC	C2D-C1D-CHD-C4C
33	iI	201	CYC	C2D-C3D-CAD-CBD
33	iI	201	CYC	C4D-C3D-CAD-CBD
33	iI	202	CYC	NA-C4A-CHB-C1B
33	iI	202	CYC	C3A-C4A-CHB-C1B
33	iI	202	CYC	C2C-C3C-CAC-CBC
33	iI	202	CYC	C4C-C3C-CAC-CBC
33	jI	201	CYC	ND-C4D-CHA-C1A
33	jI	201	CYC	C3D-C4D-CHA-C1A
33	jI	201	CYC	NA-C4A-CHB-C1B
33	jI	201	CYC	C3A-C4A-CHB-C1B
33	jI	201	CYC	C4B-C3B-CAB-CBB
33	jI	201	CYC	C2C-C3C-CAC-CBC
33	jI	201	CYC	C4C-C3C-CAC-CBC
33	jI	201	CYC	C3D-CAD-CBD-CGD
33	jI	202	CYC	C3A-C2A-CAA-CBA
33	jI	202	CYC	ND-C1D-CHD-C4C
33	jI	202	CYC	C2D-C1D-CHD-C4C
33	jI	202	CYC	C2D-C3D-CAD-CBD
33	jI	202	CYC	C4D-C3D-CAD-CBD
33	kI	201	CYC	NA-C4A-CHB-C1B
33	kI	201	CYC	C3A-C4A-CHB-C1B
33	kI	201	CYC	C2C-C3C-CAC-CBC
33	kI	201	CYC	C4C-C3C-CAC-CBC
33	lI	201	CYC	ND-C4D-CHA-C1A
33	lI	201	CYC	C3D-C4D-CHA-C1A
33	lI	201	CYC	NA-C4A-CHB-C1B
33	lI	201	CYC	C3A-C4A-CHB-C1B
33	lI	201	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
33	lI	201	CYC	C2C-C3C-CAC-CBC
33	lI	201	CYC	C4C-C3C-CAC-CBC
33	lI	201	CYC	C3D-CAD-CBD-CGD
33	mI	201	CYC	C3A-C2A-CAA-CBA
33	mI	201	CYC	ND-C1D-CHD-C4C
33	mI	201	CYC	C2D-C1D-CHD-C4C
33	mI	201	CYC	C2D-C3D-CAD-CBD
33	mI	201	CYC	C4D-C3D-CAD-CBD
33	bJ	201	CYC	ND-C4D-CHA-C1A
33	bJ	201	CYC	C3D-C4D-CHA-C1A
33	bJ	201	CYC	NA-C4A-CHB-C1B
33	bJ	201	CYC	C3A-C4A-CHB-C1B
33	bJ	201	CYC	C4B-C3B-CAB-CBB
33	bJ	201	CYC	C2C-C3C-CAC-CBC
33	bJ	201	CYC	C4C-C3C-CAC-CBC
33	bJ	201	CYC	C3D-CAD-CBD-CGD
33	cJ	201	CYC	NA-C4A-CHB-C1B
33	cJ	201	CYC	C3A-C4A-CHB-C1B
33	cJ	201	CYC	C2C-C3C-CAC-CBC
33	cJ	201	CYC	C4C-C3C-CAC-CBC
33	cJ	202	CYC	C3A-C2A-CAA-CBA
33	cJ	202	CYC	ND-C1D-CHD-C4C
33	cJ	202	CYC	C2D-C1D-CHD-C4C
33	cJ	202	CYC	C2D-C3D-CAD-CBD
33	cJ	202	CYC	C4D-C3D-CAD-CBD
33	dJ	201	CYC	ND-C4D-CHA-C1A
33	dJ	201	CYC	C3D-C4D-CHA-C1A
33	dJ	201	CYC	NA-C4A-CHB-C1B
33	dJ	201	CYC	C3A-C4A-CHB-C1B
33	dJ	201	CYC	C4B-C3B-CAB-CBB
33	dJ	201	CYC	C2C-C3C-CAC-CBC
33	dJ	201	CYC	C4C-C3C-CAC-CBC
33	dJ	201	CYC	C3D-CAD-CBD-CGD
33	eJ	201	CYC	NA-C4A-CHB-C1B
33	eJ	201	CYC	C3A-C4A-CHB-C1B
33	eJ	201	CYC	C2C-C3C-CAC-CBC
33	eJ	201	CYC	C4C-C3C-CAC-CBC
33	eJ	202	CYC	C3A-C2A-CAA-CBA
33	eJ	202	CYC	ND-C1D-CHD-C4C
33	eJ	202	CYC	C2D-C1D-CHD-C4C
33	eJ	202	CYC	C2D-C3D-CAD-CBD
33	eJ	202	CYC	C4D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
33	fJ	201	CYC	ND-C4D-CHA-C1A
33	fJ	201	CYC	C3D-C4D-CHA-C1A
33	fJ	201	CYC	NA-C4A-CHB-C1B
33	fJ	201	CYC	C3A-C4A-CHB-C1B
33	fJ	201	CYC	C4B-C3B-CAB-CBB
33	fJ	201	CYC	C2C-C3C-CAC-CBC
33	fJ	201	CYC	C4C-C3C-CAC-CBC
33	fJ	201	CYC	C3D-CAD-CBD-CGD
33	gJ	201	CYC	C3A-C2A-CAA-CBA
33	gJ	201	CYC	ND-C1D-CHD-C4C
33	gJ	201	CYC	C2D-C1D-CHD-C4C
33	gJ	201	CYC	C2D-C3D-CAD-CBD
33	gJ	201	CYC	C4D-C3D-CAD-CBD
33	gJ	202	CYC	NA-C4A-CHB-C1B
33	gJ	202	CYC	C3A-C4A-CHB-C1B
33	gJ	202	CYC	C2C-C3C-CAC-CBC
33	gJ	202	CYC	C4C-C3C-CAC-CBC
33	hJ	201	CYC	ND-C4D-CHA-C1A
33	hJ	201	CYC	C3D-C4D-CHA-C1A
33	hJ	201	CYC	NA-C4A-CHB-C1B
33	hJ	201	CYC	C3A-C4A-CHB-C1B
33	hJ	201	CYC	C4B-C3B-CAB-CBB
33	hJ	201	CYC	C2C-C3C-CAC-CBC
33	hJ	201	CYC	C4C-C3C-CAC-CBC
33	hJ	201	CYC	C3D-CAD-CBD-CGD
33	iJ	201	CYC	C3A-C2A-CAA-CBA
33	iJ	201	CYC	ND-C1D-CHD-C4C
33	iJ	201	CYC	C2D-C1D-CHD-C4C
33	iJ	201	CYC	C2D-C3D-CAD-CBD
33	iJ	201	CYC	C4D-C3D-CAD-CBD
33	iJ	202	CYC	NA-C4A-CHB-C1B
33	iJ	202	CYC	C3A-C4A-CHB-C1B
33	iJ	202	CYC	C2C-C3C-CAC-CBC
33	iJ	202	CYC	C4C-C3C-CAC-CBC
33	jJ	201	CYC	ND-C4D-CHA-C1A
33	jJ	201	CYC	C3D-C4D-CHA-C1A
33	jJ	201	CYC	NA-C4A-CHB-C1B
33	jJ	201	CYC	C3A-C4A-CHB-C1B
33	jJ	201	CYC	C4B-C3B-CAB-CBB
33	jJ	201	CYC	C2C-C3C-CAC-CBC
33	jJ	201	CYC	C4C-C3C-CAC-CBC
33	jJ	201	CYC	C3D-CAD-CBD-CGD

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Mol	Chain	Res	Type	Atoms
33	jJ	202	CYC	C3A-C2A-CAA-CBA
33	jJ	202	CYC	ND-C1D-CHD-C4C
33	jJ	202	CYC	C2D-C1D-CHD-C4C
33	jJ	202	CYC	C2D-C3D-CAD-CBD
33	jJ	202	CYC	C4D-C3D-CAD-CBD
33	kJ	201	CYC	NA-C4A-CHB-C1B
33	kJ	201	CYC	C3A-C4A-CHB-C1B
33	kJ	201	CYC	C2C-C3C-CAC-CBC
33	kJ	201	CYC	C4C-C3C-CAC-CBC
33	lJ	201	CYC	ND-C4D-CHA-C1A
33	lJ	201	CYC	C3D-C4D-CHA-C1A
33	lJ	201	CYC	NA-C4A-CHB-C1B
33	lJ	201	CYC	C3A-C4A-CHB-C1B
33	lJ	201	CYC	C4B-C3B-CAB-CBB
33	lJ	201	CYC	C2C-C3C-CAC-CBC
33	lJ	201	CYC	C4C-C3C-CAC-CBC
33	lJ	201	CYC	C3D-CAD-CBD-CGD
33	mJ	201	CYC	C3A-C2A-CAA-CBA
33	mJ	201	CYC	ND-C1D-CHD-C4C
33	mJ	201	CYC	C2D-C1D-CHD-C4C
33	mJ	201	CYC	C2D-C3D-CAD-CBD
33	mJ	201	CYC	C4D-C3D-CAD-CBD
33	aK	201	CYC	NA-C4A-CHB-C1B
33	aK	201	CYC	C3A-C4A-CHB-C1B
33	aK	201	CYC	C2C-C3C-CAC-CBC
33	aK	201	CYC	C4C-C3C-CAC-CBC
33	bK	201	CYC	C2C-C3C-CAC-CBC
33	bK	201	CYC	C4C-C3C-CAC-CBC
33	bK	201	CYC	C3D-CAD-CBD-CGD
33	cK	201	CYC	C3A-C4A-CHB-C1B
33	dK	201	CYC	NA-C4A-CHB-C1B
33	dK	201	CYC	C3A-C4A-CHB-C1B
33	dK	201	CYC	C2D-C1D-CHD-C4C
33	eK	201	CYC	C3A-C4A-CHB-C1B
33	eK	201	CYC	C2C-C3C-CAC-CBC
33	eK	201	CYC	C4C-C3C-CAC-CBC
33	3K	101	CYC	C2C-C3C-CAC-CBC
33	3K	101	CYC	C4C-C3C-CAC-CBC
33	3K	102	CYC	ND-C4D-CHA-C1A
33	3K	102	CYC	NA-C4A-CHB-C1B
33	3K	102	CYC	C3A-C4A-CHB-C1B
33	3K	102	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
33	fK	201	CYC	NA-C4A-CHB-C1B
33	fK	201	CYC	C3A-C4A-CHB-C1B
33	fK	201	CYC	C2C-C3C-CAC-CBC
33	fK	201	CYC	C4C-C3C-CAC-CBC
33	fK	201	CYC	C2D-C1D-CHD-C4C
33	gK	201	CYC	NA-C4A-CHB-C1B
33	gK	201	CYC	C3A-C4A-CHB-C1B
33	hK	201	CYC	NA-C4A-CHB-C1B
33	hK	201	CYC	C3A-C4A-CHB-C1B
33	hK	201	CYC	C2D-C1D-CHD-C4C
33	jK	201	CYC	NA-C4A-CHB-C1B
33	jK	201	CYC	C3A-C4A-CHB-C1B
33	kK	201	CYC	ND-C4D-CHA-C1A
33	kK	201	CYC	C3D-C4D-CHA-C1A
33	kK	201	CYC	NA-C4A-CHB-C1B
33	kK	201	CYC	C3A-C4A-CHB-C1B
33	kK	201	CYC	C2C-C3C-CAC-CBC
33	kK	201	CYC	C4C-C3C-CAC-CBC
33	mK	201	CYC	ND-C4D-CHA-C1A
33	mK	201	CYC	C3D-C4D-CHA-C1A
33	mK	201	CYC	NA-C4A-CHB-C1B
33	mK	201	CYC	C3A-C4A-CHB-C1B
33	mK	201	CYC	C2C-C3C-CAC-CBC
33	mK	201	CYC	C4C-C3C-CAC-CBC
33	mK	201	CYC	ND-C1D-CHD-C4C
33	nK	201	CYC	NA-C4A-CHB-C1B
33	nK	201	CYC	C3A-C4A-CHB-C1B
33	9K	201	CYC	NA-C4A-CHB-C1B
33	9K	201	CYC	C3A-C4A-CHB-C1B
33	2L	101	CYC	C2C-C3C-CAC-CBC
33	2L	101	CYC	ND-C1D-CHD-C4C
33	2L	101	CYC	C2D-C1D-CHD-C4C
33	1L	201	CYC	ND-C1D-CHD-C4C
33	1L	201	CYC	C2D-C1D-CHD-C4C
33	4L	201	CYC	C2C-C3C-CAC-CBC
33	4L	201	CYC	C4C-C3C-CAC-CBC
33	4L	201	CYC	ND-C1D-CHD-C4C
33	4L	201	CYC	C2D-C1D-CHD-C4C
33	5L	201	CYC	C2C-C3C-CAC-CBC
33	5L	201	CYC	C4C-C3C-CAC-CBC
33	5L	201	CYC	ND-C1D-CHD-C4C
33	5L	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
33	6L	201	CYC	NA-C4A-CHB-C1B
33	6L	201	CYC	C3A-C4A-CHB-C1B
33	6L	201	CYC	C2D-C1D-CHD-C4C
33	7L	201	CYC	C2C-C3C-CAC-CBC
33	7L	201	CYC	C4C-C3C-CAC-CBC
33	7L	201	CYC	ND-C1D-CHD-C4C
33	7L	201	CYC	C2D-C1D-CHD-C4C
36	AD	404	CLA	CBD-CGD-O2D-CED
36	BD	601	CLA	CHA-CBD-CGD-O1D
36	BD	601	CLA	CHA-CBD-CGD-O2D
36	BD	601	CLA	CAD-CBD-CGD-O1D
36	BD	601	CLA	CBD-CGD-O2D-CED
36	BD	602	CLA	C1A-C2A-CAA-CBA
36	BD	602	CLA	C3A-C2A-CAA-CBA
36	BD	603	CLA	CBD-CGD-O2D-CED
36	BD	607	CLA	C1A-C2A-CAA-CBA
36	BD	607	CLA	C3A-C2A-CAA-CBA
36	BD	607	CLA	CHA-CBD-CGD-O1D
36	BD	607	CLA	CHA-CBD-CGD-O2D
36	BD	608	CLA	CBD-CGD-O2D-CED
36	BD	613	CLA	CHA-CBD-CGD-O1D
36	BD	613	CLA	CHA-CBD-CGD-O2D
36	BD	613	CLA	C2-C3-C5-C6
36	BD	613	CLA	C4-C3-C5-C6
36	BD	614	CLA	CHA-CBD-CGD-O1D
36	BD	614	CLA	CHA-CBD-CGD-O2D
36	CD	503	CLA	CBD-CGD-O2D-CED
36	CD	504	CLA	CAD-CBD-CGD-O1D
36	CD	504	CLA	CAD-CBD-CGD-O2D
36	CD	506	CLA	C1A-C2A-CAA-CBA
36	CD	506	CLA	C3A-C2A-CAA-CBA
36	CD	506	CLA	CHA-CBD-CGD-O1D
36	CD	506	CLA	CHA-CBD-CGD-O2D
36	CD	507	CLA	CHA-CBD-CGD-O1D
36	CD	507	CLA	CHA-CBD-CGD-O2D
36	CD	507	CLA	CAD-CBD-CGD-O1D
36	CD	507	CLA	CAD-CBD-CGD-O2D
36	CD	508	CLA	CHA-CBD-CGD-O1D
36	CD	508	CLA	CHA-CBD-CGD-O2D
36	CD	509	CLA	C2-C3-C5-C6
36	CD	509	CLA	C4-C3-C5-C6
36	CD	511	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
36	CD	511	CLA	CHA-CBD-CGD-O2D
36	CD	513	CLA	CHA-CBD-CGD-O1D
36	CD	513	CLA	CHA-CBD-CGD-O2D
36	CD	513	CLA	CBD-CGD-O2D-CED
36	DD	405	CLA	CHA-CBD-CGD-O1D
36	DD	405	CLA	CHA-CBD-CGD-O2D
36	DD	406	CLA	C3A-C2A-CAA-CBA
36	HD	101	CLA	CHA-CBD-CGD-O1D
36	HD	101	CLA	CHA-CBD-CGD-O2D
36	AE	404	CLA	CBD-CGD-O2D-CED
36	BE	601	CLA	CHA-CBD-CGD-O1D
36	BE	601	CLA	CHA-CBD-CGD-O2D
36	BE	601	CLA	CAD-CBD-CGD-O1D
36	BE	601	CLA	CBD-CGD-O2D-CED
36	BE	602	CLA	C1A-C2A-CAA-CBA
36	BE	602	CLA	C3A-C2A-CAA-CBA
36	BE	603	CLA	CBD-CGD-O2D-CED
36	BE	607	CLA	C1A-C2A-CAA-CBA
36	BE	607	CLA	C3A-C2A-CAA-CBA
36	BE	607	CLA	CHA-CBD-CGD-O1D
36	BE	607	CLA	CHA-CBD-CGD-O2D
36	BE	608	CLA	CBD-CGD-O2D-CED
36	BE	613	CLA	CHA-CBD-CGD-O1D
36	BE	613	CLA	CHA-CBD-CGD-O2D
36	BE	613	CLA	C2-C3-C5-C6
36	BE	613	CLA	C4-C3-C5-C6
36	BE	614	CLA	CHA-CBD-CGD-O1D
36	BE	614	CLA	CHA-CBD-CGD-O2D
36	CE	503	CLA	CBD-CGD-O2D-CED
36	CE	504	CLA	CAD-CBD-CGD-O1D
36	CE	504	CLA	CAD-CBD-CGD-O2D
36	CE	506	CLA	C1A-C2A-CAA-CBA
36	CE	506	CLA	C3A-C2A-CAA-CBA
36	CE	506	CLA	CHA-CBD-CGD-O1D
36	CE	506	CLA	CHA-CBD-CGD-O2D
36	CE	507	CLA	CHA-CBD-CGD-O1D
36	CE	507	CLA	CHA-CBD-CGD-O2D
36	CE	507	CLA	CAD-CBD-CGD-O1D
36	CE	507	CLA	CAD-CBD-CGD-O2D
36	CE	508	CLA	CHA-CBD-CGD-O1D
36	CE	508	CLA	CHA-CBD-CGD-O2D
36	CE	509	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
36	CE	509	CLA	C4-C3-C5-C6
36	CE	511	CLA	CHA-CBD-CGD-O1D
36	CE	511	CLA	CHA-CBD-CGD-O2D
36	CE	513	CLA	CHA-CBD-CGD-O1D
36	CE	513	CLA	CHA-CBD-CGD-O2D
36	CE	513	CLA	CBD-CGD-O2D-CED
36	DE	405	CLA	CHA-CBD-CGD-O1D
36	DE	405	CLA	CHA-CBD-CGD-O2D
36	DE	406	CLA	C3A-C2A-CAA-CBA
36	HE	101	CLA	CHA-CBD-CGD-O1D
36	HE	101	CLA	CHA-CBD-CGD-O2D
36	A1	404	CLA	CBD-CGD-O2D-CED
36	B1	601	CLA	CHA-CBD-CGD-O1D
36	B1	601	CLA	CHA-CBD-CGD-O2D
36	B1	601	CLA	CAD-CBD-CGD-O1D
36	B1	601	CLA	CBD-CGD-O2D-CED
36	B1	602	CLA	C1A-C2A-CAA-CBA
36	B1	602	CLA	C3A-C2A-CAA-CBA
36	B1	603	CLA	CBD-CGD-O2D-CED
36	B1	607	CLA	C1A-C2A-CAA-CBA
36	B1	607	CLA	C3A-C2A-CAA-CBA
36	B1	607	CLA	CHA-CBD-CGD-O1D
36	B1	607	CLA	CHA-CBD-CGD-O2D
36	B1	608	CLA	CHA-CBD-CGD-O1D
36	B1	608	CLA	CBD-CGD-O2D-CED
36	B1	613	CLA	CHA-CBD-CGD-O1D
36	B1	613	CLA	CHA-CBD-CGD-O2D
36	B1	613	CLA	C2-C3-C5-C6
36	B1	613	CLA	C4-C3-C5-C6
36	B1	614	CLA	CHA-CBD-CGD-O1D
36	B1	614	CLA	CHA-CBD-CGD-O2D
36	C1	503	CLA	CBD-CGD-O2D-CED
36	C1	504	CLA	CAD-CBD-CGD-O1D
36	C1	504	CLA	CAD-CBD-CGD-O2D
36	C1	506	CLA	C1A-C2A-CAA-CBA
36	C1	506	CLA	C3A-C2A-CAA-CBA
36	C1	506	CLA	CHA-CBD-CGD-O1D
36	C1	506	CLA	CHA-CBD-CGD-O2D
36	C1	507	CLA	CHA-CBD-CGD-O1D
36	C1	507	CLA	CHA-CBD-CGD-O2D
36	C1	507	CLA	CAD-CBD-CGD-O1D
36	C1	507	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
36	C1	508	CLA	CHA-CBD-CGD-O1D
36	C1	508	CLA	CHA-CBD-CGD-O2D
36	C1	509	CLA	C2-C3-C5-C6
36	C1	509	CLA	C4-C3-C5-C6
36	C1	511	CLA	CHA-CBD-CGD-O1D
36	C1	511	CLA	CHA-CBD-CGD-O2D
36	C1	513	CLA	CHA-CBD-CGD-O1D
36	C1	513	CLA	CHA-CBD-CGD-O2D
36	C1	513	CLA	CBD-CGD-O2D-CED
36	D1	404	CLA	CHA-CBD-CGD-O1D
36	D1	404	CLA	CHA-CBD-CGD-O2D
36	D1	405	CLA	C3A-C2A-CAA-CBA
36	H1	101	CLA	CHA-CBD-CGD-O1D
36	H1	101	CLA	CHA-CBD-CGD-O2D
36	a1	405	CLA	C1A-C2A-CAA-CBA
36	a1	405	CLA	C3A-C2A-CAA-CBA
36	a1	407	CLA	C2-C3-C5-C6
36	a1	407	CLA	C4-C3-C5-C6
36	b1	603	CLA	CHA-CBD-CGD-O1D
36	b1	603	CLA	CHA-CBD-CGD-O2D
36	b1	603	CLA	CAD-CBD-CGD-O1D
36	b1	603	CLA	CBD-CGD-O2D-CED
36	b1	604	CLA	C1A-C2A-CAA-CBA
36	b1	604	CLA	C3A-C2A-CAA-CBA
36	b1	605	CLA	CBD-CGD-O2D-CED
36	b1	609	CLA	C1A-C2A-CAA-CBA
36	b1	609	CLA	C3A-C2A-CAA-CBA
36	b1	609	CLA	CHA-CBD-CGD-O1D
36	b1	609	CLA	CHA-CBD-CGD-O2D
36	b1	614	CLA	CHA-CBD-CGD-O1D
36	b1	614	CLA	CHA-CBD-CGD-O2D
36	b1	614	CLA	C2-C3-C5-C6
36	b1	614	CLA	C4-C3-C5-C6
36	b1	615	CLA	CHA-CBD-CGD-O1D
36	b1	615	CLA	CHA-CBD-CGD-O2D
36	c1	503	CLA	CHA-CBD-CGD-O1D
36	c1	503	CLA	CHA-CBD-CGD-O2D
36	c1	503	CLA	CAD-CBD-CGD-O1D
36	c1	504	CLA	CBD-CGD-O2D-CED
36	c1	505	CLA	C1A-C2A-CAA-CBA
36	c1	505	CLA	C3A-C2A-CAA-CBA
36	c1	505	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
36	c1	505	CLA	CHA-CBD-CGD-O2D
36	c1	505	CLA	CAD-CBD-CGD-O1D
36	c1	506	CLA	CAD-CBD-CGD-O1D
36	c1	506	CLA	CAD-CBD-CGD-O2D
36	c1	507	CLA	CHA-CBD-CGD-O1D
36	c1	507	CLA	CHA-CBD-CGD-O2D
36	c1	507	CLA	CAD-CBD-CGD-O1D
36	c1	507	CLA	CAD-CBD-CGD-O2D
36	c1	507	CLA	CBD-CGD-O2D-CED
36	c1	508	CLA	C2-C3-C5-C6
36	c1	508	CLA	C4-C3-C5-C6
36	c1	509	CLA	CHA-CBD-CGD-O1D
36	c1	509	CLA	CHA-CBD-CGD-O2D
36	c1	510	CLA	CBD-CGD-O2D-CED
36	c1	511	CLA	C1A-C2A-CAA-CBA
36	c1	511	CLA	C3A-C2A-CAA-CBA
36	c1	512	CLA	CHA-CBD-CGD-O1D
36	c1	512	CLA	CHA-CBD-CGD-O2D
36	c1	512	CLA	CBD-CGD-O2D-CED
36	d1	403	CLA	CHA-CBD-CGD-O1D
36	d1	403	CLA	CBD-CGD-O2D-CED
36	d1	405	CLA	CHA-CBD-CGD-O1D
36	d1	405	CLA	CHA-CBD-CGD-O2D
36	d1	406	CLA	C3A-C2A-CAA-CBA
36	h1	101	CLA	CHA-CBD-CGD-O1D
36	h1	101	CLA	CHA-CBD-CGD-O2D
36	aD	404	CLA	C1A-C2A-CAA-CBA
36	aD	404	CLA	C3A-C2A-CAA-CBA
36	aD	406	CLA	C2-C3-C5-C6
36	aD	406	CLA	C4-C3-C5-C6
36	bD	603	CLA	CHA-CBD-CGD-O1D
36	bD	603	CLA	CHA-CBD-CGD-O2D
36	bD	603	CLA	CAD-CBD-CGD-O1D
36	bD	603	CLA	CBD-CGD-O2D-CED
36	bD	604	CLA	C1A-C2A-CAA-CBA
36	bD	604	CLA	C3A-C2A-CAA-CBA
36	bD	605	CLA	CBD-CGD-O2D-CED
36	bD	609	CLA	C1A-C2A-CAA-CBA
36	bD	609	CLA	C3A-C2A-CAA-CBA
36	bD	609	CLA	CHA-CBD-CGD-O1D
36	bD	609	CLA	CHA-CBD-CGD-O2D
36	bD	614	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
36	bD	614	CLA	CHA-CBD-CGD-O2D
36	bD	614	CLA	C2-C3-C5-C6
36	bD	614	CLA	C4-C3-C5-C6
36	bD	615	CLA	CHA-CBD-CGD-O1D
36	bD	615	CLA	CHA-CBD-CGD-O2D
36	cD	504	CLA	CHA-CBD-CGD-O1D
36	cD	504	CLA	CHA-CBD-CGD-O2D
36	cD	504	CLA	CAD-CBD-CGD-O1D
36	cD	505	CLA	CBD-CGD-O2D-CED
36	cD	506	CLA	C1A-C2A-CAA-CBA
36	cD	506	CLA	C3A-C2A-CAA-CBA
36	cD	506	CLA	CHA-CBD-CGD-O1D
36	cD	506	CLA	CHA-CBD-CGD-O2D
36	cD	506	CLA	CAD-CBD-CGD-O1D
36	cD	507	CLA	CHA-CBD-CGD-O1D
36	cD	507	CLA	CHA-CBD-CGD-O2D
36	cD	507	CLA	CAD-CBD-CGD-O1D
36	cD	507	CLA	CAD-CBD-CGD-O2D
36	cD	507	CLA	CBD-CGD-O2D-CED
36	cD	508	CLA	C2-C3-C5-C6
36	cD	508	CLA	C4-C3-C5-C6
36	cD	509	CLA	CHA-CBD-CGD-O1D
36	cD	509	CLA	CHA-CBD-CGD-O2D
36	cD	510	CLA	CBD-CGD-O2D-CED
36	cD	511	CLA	C1A-C2A-CAA-CBA
36	cD	511	CLA	C3A-C2A-CAA-CBA
36	cD	512	CLA	CHA-CBD-CGD-O1D
36	cD	512	CLA	CHA-CBD-CGD-O2D
36	cD	512	CLA	CBD-CGD-O2D-CED
36	dD	403	CLA	CHA-CBD-CGD-O1D
36	dD	403	CLA	CBD-CGD-O2D-CED
36	dD	405	CLA	CHA-CBD-CGD-O1D
36	dD	405	CLA	CHA-CBD-CGD-O2D
36	dD	406	CLA	C3A-C2A-CAA-CBA
36	hD	101	CLA	CHA-CBD-CGD-O1D
36	hD	101	CLA	CHA-CBD-CGD-O2D
36	iD	101	CLA	CAD-CBD-CGD-O1D
36	iD	101	CLA	CAD-CBD-CGD-O2D
36	aE	404	CLA	C1A-C2A-CAA-CBA
36	aE	404	CLA	C3A-C2A-CAA-CBA
36	aE	406	CLA	C2-C3-C5-C6
36	aE	406	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
36	bE	603	CLA	CHA-CBD-CGD-O1D
36	bE	603	CLA	CHA-CBD-CGD-O2D
36	bE	603	CLA	CAD-CBD-CGD-O1D
36	bE	603	CLA	CBD-CGD-O2D-CED
36	bE	604	CLA	C1A-C2A-CAA-CBA
36	bE	604	CLA	C3A-C2A-CAA-CBA
36	bE	605	CLA	CBD-CGD-O2D-CED
36	bE	609	CLA	C1A-C2A-CAA-CBA
36	bE	609	CLA	C3A-C2A-CAA-CBA
36	bE	609	CLA	CHA-CBD-CGD-O1D
36	bE	609	CLA	CHA-CBD-CGD-O2D
36	bE	614	CLA	CHA-CBD-CGD-O1D
36	bE	614	CLA	CHA-CBD-CGD-O2D
36	bE	614	CLA	C2-C3-C5-C6
36	bE	614	CLA	C4-C3-C5-C6
36	bE	615	CLA	CHA-CBD-CGD-O1D
36	bE	615	CLA	CHA-CBD-CGD-O2D
36	cE	504	CLA	CHA-CBD-CGD-O1D
36	cE	504	CLA	CHA-CBD-CGD-O2D
36	cE	504	CLA	CAD-CBD-CGD-O1D
36	cE	505	CLA	CBD-CGD-O2D-CED
36	cE	506	CLA	C1A-C2A-CAA-CBA
36	cE	506	CLA	C3A-C2A-CAA-CBA
36	cE	506	CLA	CHA-CBD-CGD-O1D
36	cE	506	CLA	CHA-CBD-CGD-O2D
36	cE	506	CLA	CAD-CBD-CGD-O1D
36	cE	507	CLA	CHA-CBD-CGD-O1D
36	cE	507	CLA	CHA-CBD-CGD-O2D
36	cE	507	CLA	CAD-CBD-CGD-O1D
36	cE	507	CLA	CAD-CBD-CGD-O2D
36	cE	507	CLA	CBD-CGD-O2D-CED
36	cE	508	CLA	C2-C3-C5-C6
36	cE	508	CLA	C4-C3-C5-C6
36	cE	509	CLA	CHA-CBD-CGD-O1D
36	cE	509	CLA	CHA-CBD-CGD-O2D
36	cE	510	CLA	CBD-CGD-O2D-CED
36	cE	511	CLA	C1A-C2A-CAA-CBA
36	cE	511	CLA	C3A-C2A-CAA-CBA
36	cE	512	CLA	CHA-CBD-CGD-O1D
36	cE	512	CLA	CHA-CBD-CGD-O2D
36	cE	512	CLA	CBD-CGD-O2D-CED
36	dE	403	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
36	dE	403	CLA	CBD-CGD-O2D-CED
36	dE	405	CLA	CHA-CBD-CGD-O1D
36	dE	405	CLA	CHA-CBD-CGD-O2D
36	dE	406	CLA	C3A-C2A-CAA-CBA
36	hE	101	CLA	CHA-CBD-CGD-O1D
36	hE	101	CLA	CHA-CBD-CGD-O2D
36	iE	101	CLA	CAD-CBD-CGD-O1D
36	iE	101	CLA	CAD-CBD-CGD-O2D
37	AD	406	PL9	C9-C11-C12-C13
37	AD	406	PL9	C14-C16-C17-C18
37	AD	406	PL9	C39-C41-C42-C43
37	AE	406	PL9	C9-C11-C12-C13
37	AE	406	PL9	C14-C16-C17-C18
37	AE	406	PL9	C39-C41-C42-C43
37	A1	406	PL9	C9-C11-C12-C13
37	A1	406	PL9	C14-C16-C17-C18
37	A1	406	PL9	C39-C41-C42-C43
37	a1	409	PL9	C9-C11-C12-C13
37	a1	409	PL9	C14-C16-C17-C18
37	a1	409	PL9	C38-C39-C41-C42
37	a1	409	PL9	C40-C39-C41-C42
37	aD	408	PL9	C9-C11-C12-C13
37	aD	408	PL9	C14-C16-C17-C18
37	aD	408	PL9	C38-C39-C41-C42
37	aD	408	PL9	C40-C39-C41-C42
37	aE	408	PL9	C9-C11-C12-C13
37	aE	408	PL9	C14-C16-C17-C18
37	aE	408	PL9	C38-C39-C41-C42
37	aE	408	PL9	C40-C39-C41-C42
38	AD	407	SQD	O5-C5-C6-S
38	AD	407	SQD	C5-C6-S-O7
38	AD	407	SQD	C5-C6-S-O8
38	BD	621	SQD	O5-C5-C6-S
38	BD	621	SQD	C5-C6-S-O9
38	CD	501	SQD	C2-C1-O6-C44
38	CD	501	SQD	O5-C1-O6-C44
38	DD	414	SQD	O5-C5-C6-S
38	DD	414	SQD	C5-C6-S-O7
38	DD	414	SQD	C5-C6-S-O8
38	DD	414	SQD	C5-C6-S-O9
38	LD	101	SQD	C2-C1-O6-C44
38	LD	101	SQD	O5-C1-O6-C44

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Mol	Chain	Res	Type	Atoms
38	LD	101	SQD	O49-C7-O47-C45
38	LD	102	SQD	C2-C1-O6-C44
38	LD	102	SQD	O5-C1-O6-C44
38	LD	102	SQD	O49-C7-O47-C45
38	AE	407	SQD	O5-C5-C6-S
38	AE	407	SQD	C5-C6-S-O7
38	AE	407	SQD	C5-C6-S-O8
38	BE	621	SQD	O5-C5-C6-S
38	BE	621	SQD	C5-C6-S-O9
38	CE	501	SQD	C2-C1-O6-C44
38	CE	501	SQD	O5-C1-O6-C44
38	DE	414	SQD	O5-C5-C6-S
38	DE	414	SQD	C5-C6-S-O7
38	DE	414	SQD	C5-C6-S-O8
38	DE	414	SQD	C5-C6-S-O9
38	LE	101	SQD	C2-C1-O6-C44
38	LE	101	SQD	O5-C1-O6-C44
38	LE	101	SQD	O49-C7-O47-C45
38	LE	102	SQD	C2-C1-O6-C44
38	LE	102	SQD	O5-C1-O6-C44
38	LE	102	SQD	O49-C7-O47-C45
38	A1	407	SQD	O5-C5-C6-S
38	A1	407	SQD	C5-C6-S-O7
38	A1	407	SQD	C5-C6-S-O8
38	B1	622	SQD	O5-C5-C6-S
38	B1	622	SQD	C5-C6-S-O9
38	C1	501	SQD	C2-C1-O6-C44
38	C1	501	SQD	O5-C1-O6-C44
38	D1	413	SQD	O5-C5-C6-S
38	D1	413	SQD	C5-C6-S-O7
38	D1	413	SQD	C5-C6-S-O8
38	D1	413	SQD	C5-C6-S-O9
38	L1	101	SQD	C2-C1-O6-C44
38	L1	101	SQD	O5-C1-O6-C44
38	L1	101	SQD	O49-C7-O47-C45
38	L1	102	SQD	C2-C1-O6-C44
38	L1	102	SQD	O5-C1-O6-C44
38	L1	102	SQD	O49-C7-O47-C45
38	c1	501	SQD	O5-C5-C6-S
38	c1	501	SQD	C5-C6-S-O8
38	c1	501	SQD	C5-C6-S-O9
38	d1	414	SQD	C5-C6-S-O7

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Mol	Chain	Res	Type	Atoms
38	d1	414	SQD	C5-C6-S-O8
38	d1	414	SQD	C5-C6-S-O9
38	h1	103	SQD	O5-C1-O6-C44
38	h1	103	SQD	O47-C45-C46-O48
38	h1	103	SQD	O49-C7-O47-C45
38	h1	103	SQD	C8-C7-O47-C45
38	h1	103	SQD	O5-C5-C6-S
38	h1	103	SQD	C5-C6-S-O8
38	h1	103	SQD	C5-C6-S-O9
38	cD	502	SQD	O5-C5-C6-S
38	cD	502	SQD	C5-C6-S-O8
38	cD	502	SQD	C5-C6-S-O9
38	dD	414	SQD	O5-C5-C6-S
38	dD	414	SQD	C5-C6-S-O7
38	dD	414	SQD	C5-C6-S-O8
38	dD	414	SQD	C5-C6-S-O9
38	hD	103	SQD	O5-C1-O6-C44
38	hD	103	SQD	O47-C45-C46-O48
38	hD	103	SQD	O49-C7-O47-C45
38	hD	103	SQD	C8-C7-O47-C45
38	hD	103	SQD	O5-C5-C6-S
38	hD	103	SQD	C5-C6-S-O8
38	hD	103	SQD	C5-C6-S-O9
38	cE	502	SQD	O5-C5-C6-S
38	cE	502	SQD	C5-C6-S-O8
38	cE	502	SQD	C5-C6-S-O9
38	dE	414	SQD	O5-C5-C6-S
38	dE	414	SQD	C5-C6-S-O7
38	dE	414	SQD	C5-C6-S-O8
38	dE	414	SQD	C5-C6-S-O9
38	hE	103	SQD	O5-C1-O6-C44
38	hE	103	SQD	O47-C45-C46-O48
38	hE	103	SQD	O49-C7-O47-C45
38	hE	103	SQD	C8-C7-O47-C45
38	hE	103	SQD	O5-C5-C6-S
38	hE	103	SQD	C5-C6-S-O8
38	hE	103	SQD	C5-C6-S-O9
39	DD	411	LMG	O1-C7-C8-O7
39	JD	102	LMG	O6-C1-O1-C7
39	JD	102	LMG	O9-C10-O7-C8
39	JD	102	LMG	C11-C10-O7-C8
39	MD	101	LMG	C11-C10-O7-C8

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Mol	Chain	Res	Type	Atoms
39	DE	411	LMG	O1-C7-C8-O7
39	JE	102	LMG	O6-C1-O1-C7
39	JE	102	LMG	O9-C10-O7-C8
39	JE	102	LMG	C11-C10-O7-C8
39	ME	101	LMG	C11-C10-O7-C8
39	D1	410	LMG	O1-C7-C8-O7
39	J1	102	LMG	O6-C1-O1-C7
39	J1	102	LMG	O9-C10-O7-C8
39	J1	102	LMG	C11-C10-O7-C8
39	M1	101	LMG	C11-C10-O7-C8
39	d1	411	LMG	O1-C7-C8-O7
39	j1	102	LMG	O6-C1-O1-C7
39	j1	102	LMG	C11-C10-O7-C8
39	m1	101	LMG	C11-C10-O7-C8
39	y1	101	LMG	C11-C10-O7-C8
39	dD	411	LMG	O1-C7-C8-O7
39	jD	102	LMG	O6-C1-O1-C7
39	jD	102	LMG	C11-C10-O7-C8
39	mD	101	LMG	C11-C10-O7-C8
39	yD	101	LMG	C11-C10-O7-C8
39	dE	411	LMG	O1-C7-C8-O7
39	jE	102	LMG	O6-C1-O1-C7
39	jE	102	LMG	C11-C10-O7-C8
39	mE	101	LMG	C11-C10-O7-C8
39	yE	101	LMG	C11-C10-O7-C8
40	AD	409	LMT	C2-C1-O1'-C1'
40	AD	412	LMT	C2'-C1'-O1'-C1
40	AD	412	LMT	O5'-C1'-O1'-C1
40	BD	623	LMT	C2-C1-O1'-C1'
40	CD	522	LMT	C2'-C1'-O1'-C1
40	CD	522	LMT	O5'-C1'-O1'-C1
40	CD	522	LMT	C2-C1-O1'-C1'
40	DD	404	LMT	C2'-C1'-O1'-C1
40	DD	404	LMT	O5'-C1'-O1'-C1
40	AE	409	LMT	C2-C1-O1'-C1'
40	AE	412	LMT	C2'-C1'-O1'-C1
40	AE	412	LMT	O5'-C1'-O1'-C1
40	BE	623	LMT	C2-C1-O1'-C1'
40	DE	404	LMT	C2'-C1'-O1'-C1
40	DE	404	LMT	O5'-C1'-O1'-C1
40	A1	409	LMT	C2-C1-O1'-C1'
40	A1	413	LMT	C2'-C1'-O1'-C1

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Mol	Chain	Res	Type	Atoms
40	A1	413	LMT	O5'-C1'-O1'-C1
40	B1	620	LMT	C2'-C1'-O1'-C1
40	B1	620	LMT	O5'-C1'-O1'-C1
40	B1	620	LMT	C2-C1-O1'-C1'
40	B1	623	LMT	C2-C1-O1'-C1'
40	C1	521	LMT	C2'-C1'-O1'-C1
40	C1	521	LMT	O5'-C1'-O1'-C1
40	C1	521	LMT	C2-C1-O1'-C1'
40	D1	403	LMT	C2'-C1'-O1'-C1
40	D1	403	LMT	O5'-C1'-O1'-C1
40	b1	601	LMT	C2-C1-O1'-C1'
40	b1	602	LMT	C2-C1-O1'-C1'
40	d1	404	LMT	C2'-C1'-O1'-C1
40	d1	404	LMT	O5'-C1'-O1'-C1
40	i1	102	LMT	C2-C1-O1'-C1'
40	j1	101	LMT	O5'-C1'-O1'-C1
40	bD	601	LMT	C2-C1-O1'-C1'
40	bD	602	LMT	C2-C1-O1'-C1'
40	cD	501	LMT	C2'-C1'-O1'-C1
40	cD	501	LMT	O5'-C1'-O1'-C1
40	cD	501	LMT	C2-C1-O1'-C1'
40	dD	404	LMT	C2'-C1'-O1'-C1
40	dD	404	LMT	O5'-C1'-O1'-C1
40	iD	103	LMT	C2-C1-O1'-C1'
40	jD	101	LMT	O5'-C1'-O1'-C1
40	bE	601	LMT	C2-C1-O1'-C1'
40	bE	602	LMT	C2-C1-O1'-C1'
40	bE	621	LMT	C2'-C1'-O1'-C1
40	bE	621	LMT	O5'-C1'-O1'-C1
40	bE	621	LMT	C2-C1-O1'-C1'
40	cE	501	LMT	C2'-C1'-O1'-C1
40	cE	501	LMT	O5'-C1'-O1'-C1
40	cE	501	LMT	C2-C1-O1'-C1'
40	dE	404	LMT	C2'-C1'-O1'-C1
40	dE	404	LMT	O5'-C1'-O1'-C1
40	iE	103	LMT	C2-C1-O1'-C1'
40	jE	101	LMT	O5'-C1'-O1'-C1
42	AD	411	LHG	C3-O3-P-O5
42	AD	411	LHG	C3-O3-P-O6
42	AD	411	LHG	C4-O6-P-O3
42	AD	411	LHG	O6-C4-C5-O7
42	BD	620	LHG	C3-O3-P-O4

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Mol	Chain	Res	Type	Atoms
42	BD	620	LHG	C3-O3-P-O5
42	BD	620	LHG	C4-O6-P-O4
42	DD	409	LHG	C3-O3-P-O4
42	DD	409	LHG	C4-O6-P-O4
42	DD	410	LHG	C3-O3-P-O5
42	AE	411	LHG	C3-O3-P-O5
42	AE	411	LHG	C3-O3-P-O6
42	AE	411	LHG	C4-O6-P-O3
42	AE	411	LHG	O6-C4-C5-O7
42	BE	620	LHG	C3-O3-P-O4
42	BE	620	LHG	C3-O3-P-O5
42	BE	620	LHG	C4-O6-P-O4
42	DE	409	LHG	C3-O3-P-O4
42	DE	409	LHG	C4-O6-P-O4
42	DE	410	LHG	C3-O3-P-O5
42	A1	411	LHG	C3-O3-P-O5
42	A1	411	LHG	C3-O3-P-O6
42	A1	411	LHG	C4-O6-P-O3
42	A1	411	LHG	O6-C4-C5-O7
42	B1	621	LHG	C3-O3-P-O4
42	B1	621	LHG	C3-O3-P-O5
42	B1	621	LHG	C4-O6-P-O4
42	D1	408	LHG	C3-O3-P-O4
42	D1	408	LHG	C4-O6-P-O4
42	D1	409	LHG	C3-O3-P-O5
42	a1	412	LHG	O6-C4-C5-O7
42	d1	409	LHG	C3-O3-P-O4
42	d1	409	LHG	C4-O6-P-O4
42	d1	410	LHG	C3-O3-P-O5
42	e1	101	LHG	C4-O6-P-O4
42	e1	101	LHG	C4-O6-P-O5
42	l1	101	LHG	C3-O3-P-O4
42	l1	101	LHG	C3-O3-P-O5
42	l1	101	LHG	C4-O6-P-O4
42	aD	411	LHG	O6-C4-C5-O7
42	dD	409	LHG	C3-O3-P-O4
42	dD	409	LHG	C4-O6-P-O4
42	dD	410	LHG	C3-O3-P-O5
42	eD	101	LHG	C4-O6-P-O4
42	eD	101	LHG	C4-O6-P-O5
42	lD	101	LHG	C3-O3-P-O4
42	lD	101	LHG	C3-O3-P-O5

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Mol	Chain	Res	Type	Atoms
42	lD	101	LHG	C4-O6-P-O4
42	aE	411	LHG	O6-C4-C5-O7
42	dE	409	LHG	C3-O3-P-O4
42	dE	409	LHG	C4-O6-P-O4
42	dE	410	LHG	C3-O3-P-O5
42	eE	101	LHG	C4-O6-P-O4
42	eE	101	LHG	C4-O6-P-O5
42	lE	101	LHG	C3-O3-P-O4
42	lE	101	LHG	C3-O3-P-O5
42	lE	101	LHG	C4-O6-P-O4
43	CD	516	BCR	C1-C6-C7-C8
43	CD	521	BCR	C7-C8-C9-C10
43	CD	521	BCR	C7-C8-C9-C34
43	DD	407	BCR	C5-C6-C7-C8
43	DD	407	BCR	C21-C22-C23-C24
43	DD	407	BCR	C37-C22-C23-C24
43	ID	102	BCR	C1-C6-C7-C8
43	ID	102	BCR	C7-C8-C9-C10
43	ID	102	BCR	C7-C8-C9-C34
43	ID	102	BCR	C21-C22-C23-C24
43	ID	102	BCR	C37-C22-C23-C24
43	XD	102	BCR	C7-C8-C9-C10
43	XD	102	BCR	C7-C8-C9-C34
43	XD	102	BCR	C23-C24-C25-C30
43	ZD	101	BCR	C17-C18-C19-C20
43	ZD	101	BCR	C36-C18-C19-C20
43	CE	516	BCR	C1-C6-C7-C8
43	DE	407	BCR	C5-C6-C7-C8
43	DE	407	BCR	C21-C22-C23-C24
43	DE	407	BCR	C37-C22-C23-C24
43	lE	102	BCR	C1-C6-C7-C8
43	lE	102	BCR	C7-C8-C9-C10
43	lE	102	BCR	C7-C8-C9-C34
43	lE	102	BCR	C21-C22-C23-C24
43	lE	102	BCR	C37-C22-C23-C24
43	XE	102	BCR	C7-C8-C9-C10
43	XE	102	BCR	C7-C8-C9-C34
43	XE	102	BCR	C23-C24-C25-C30
43	ZE	101	BCR	C17-C18-C19-C20
43	ZE	101	BCR	C36-C18-C19-C20
43	ZE	102	BCR	C7-C8-C9-C10
43	ZE	102	BCR	C7-C8-C9-C34

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Mol	Chain	Res	Type	Atoms
43	C1	516	BCR	C1-C6-C7-C8
43	D1	406	BCR	C5-C6-C7-C8
43	D1	406	BCR	C21-C22-C23-C24
43	D1	406	BCR	C37-C22-C23-C24
43	I1	102	BCR	C1-C6-C7-C8
43	I1	102	BCR	C7-C8-C9-C10
43	I1	102	BCR	C7-C8-C9-C34
43	I1	102	BCR	C21-C22-C23-C24
43	I1	102	BCR	C37-C22-C23-C24
43	X1	102	BCR	C7-C8-C9-C10
43	X1	102	BCR	C7-C8-C9-C34
43	X1	102	BCR	C23-C24-C25-C30
43	Z1	101	BCR	C17-C18-C19-C20
43	Z1	101	BCR	C36-C18-C19-C20
43	Z1	102	BCR	C7-C8-C9-C10
43	Z1	102	BCR	C7-C8-C9-C34
43	c1	515	BCR	C17-C18-C19-C20
43	c1	515	BCR	C36-C18-C19-C20
43	d1	407	BCR	C5-C6-C7-C8
43	d1	407	BCR	C21-C22-C23-C24
43	d1	407	BCR	C37-C22-C23-C24
43	h1	105	BCR	C7-C8-C9-C10
43	h1	105	BCR	C7-C8-C9-C34
43	h1	105	BCR	C23-C24-C25-C30
43	i1	101	BCR	C21-C22-C23-C24
43	i1	101	BCR	C37-C22-C23-C24
43	k1	102	BCR	C7-C8-C9-C10
43	k1	102	BCR	C7-C8-C9-C34
43	z1	101	BCR	C17-C18-C19-C20
43	z1	101	BCR	C36-C18-C19-C20
43	cD	515	BCR	C17-C18-C19-C20
43	cD	515	BCR	C36-C18-C19-C20
43	dD	407	BCR	C5-C6-C7-C8
43	dD	407	BCR	C21-C22-C23-C24
43	dD	407	BCR	C37-C22-C23-C24
43	hD	105	BCR	C7-C8-C9-C10
43	hD	105	BCR	C7-C8-C9-C34
43	hD	105	BCR	C23-C24-C25-C30
43	iD	102	BCR	C21-C22-C23-C24
43	iD	102	BCR	C37-C22-C23-C24
43	kD	102	BCR	C7-C8-C9-C10
43	kD	102	BCR	C7-C8-C9-C34

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Mol	Chain	Res	Type	Atoms
43	zD	101	BCR	C17-C18-C19-C20
43	zD	101	BCR	C36-C18-C19-C20
43	cE	515	BCR	C17-C18-C19-C20
43	cE	515	BCR	C36-C18-C19-C20
43	dE	407	BCR	C5-C6-C7-C8
43	dE	407	BCR	C21-C22-C23-C24
43	dE	407	BCR	C37-C22-C23-C24
43	hE	105	BCR	C7-C8-C9-C10
43	hE	105	BCR	C7-C8-C9-C34
43	hE	105	BCR	C23-C24-C25-C30
43	iE	102	BCR	C1-C6-C7-C8
43	iE	102	BCR	C21-C22-C23-C24
43	iE	102	BCR	C37-C22-C23-C24
43	kE	102	BCR	C7-C8-C9-C10
43	kE	102	BCR	C7-C8-C9-C34
43	zE	101	BCR	C17-C18-C19-C20
43	zE	101	BCR	C36-C18-C19-C20
45	DD	401	PHO	C1A-C2A-CAA-CBA
45	DD	401	PHO	C11-C12-C13-C14
45	DD	401	PHO	C12-C13-C15-C16
45	DD	403	PHO	C1A-C2A-CAA-CBA
45	DD	403	PHO	C3A-C2A-CAA-CBA
45	DE	401	PHO	C1A-C2A-CAA-CBA
45	DE	401	PHO	C11-C10-C8-C7
45	DE	401	PHO	C11-C12-C13-C14
45	DE	403	PHO	C1A-C2A-CAA-CBA
45	DE	403	PHO	C3A-C2A-CAA-CBA
45	A1	412	PHO	C1A-C2A-CAA-CBA
45	A1	412	PHO	C3A-C2A-CAA-CBA
45	A1	412	PHO	C11-C12-C13-C14
45	D1	402	PHO	C1A-C2A-CAA-CBA
45	a1	413	PHO	C3A-C2A-CAA-CBA
45	d1	402	PHO	C1A-C2A-CAA-CBA
45	d1	402	PHO	C3A-C2A-CAA-CBA
45	aD	412	PHO	C1A-C2A-CAA-CBA
45	aD	412	PHO	C11-C10-C8-C7
45	aD	412	PHO	C11-C12-C13-C14
45	dD	402	PHO	C1A-C2A-CAA-CBA
45	dD	402	PHO	C3A-C2A-CAA-CBA
45	aE	412	PHO	C1A-C2A-CAA-CBA
45	dE	402	PHO	C1A-C2A-CAA-CBA
45	dE	402	PHO	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
47	ED	101	HEM	C2B-C3B-CAB-CBB
47	ED	101	HEM	C4B-C3B-CAB-CBB
47	VD	201	HEM	C2B-C3B-CAB-CBB
47	EE	101	HEM	C2B-C3B-CAB-CBB
47	EE	101	HEM	C4B-C3B-CAB-CBB
47	VE	201	HEM	C2B-C3B-CAB-CBB
47	E1	101	HEM	C2B-C3B-CAB-CBB
47	E1	101	HEM	C4B-C3B-CAB-CBB
47	V1	201	HEM	C2B-C3B-CAB-CBB
47	f1	101	HEM	C2B-C3B-CAB-CBB
47	f1	101	HEM	C4B-C3B-CAB-CBB
47	v1	201	HEM	C2B-C3B-CAB-CBB
47	fD	101	HEM	C2B-C3B-CAB-CBB
47	fD	101	HEM	C4B-C3B-CAB-CBB
47	vD	201	HEM	C2B-C3B-CAB-CBB
47	fE	101	HEM	C2B-C3B-CAB-CBB
47	fE	101	HEM	C4B-C3B-CAB-CBB
47	vE	201	HEM	C2B-C3B-CAB-CBB
33	BA	301	CYC	C2B-C3B-CAB-CBB
33	CB	1002	CYC	C2B-C3B-CAB-CBB
33	BC	301	CYC	C2B-C3B-CAB-CBB
33	XF	201	CYC	C2B-C3B-CAB-CBB
33	BI	301	CYC	C2B-C3B-CAB-CBB
33	XK	201	CYC	C2B-C3B-CAB-CBB
33	c2	201	CYC	C2B-C3B-CAB-CBB
33	e2	201	CYC	C2B-C3B-CAB-CBB
33	i2	202	CYC	C2B-C3B-CAB-CBB
33	k2	201	CYC	C2B-C3B-CAB-CBB
33	B2	301	CYC	C2B-C3B-CAB-CBB
33	c3	201	CYC	C2B-C3B-CAB-CBB
33	e3	201	CYC	C2B-C3B-CAB-CBB
33	i3	202	CYC	C2B-C3B-CAB-CBB
33	k3	201	CYC	C2B-C3B-CAB-CBB
33	B3	301	CYC	C2B-C3B-CAB-CBB
33	C4	1002	CYC	C2B-C3B-CAB-CBB
33	c5	201	CYC	C2B-C3B-CAB-CBB
33	e5	201	CYC	C2B-C3B-CAB-CBB
33	g5	202	CYC	C2B-C3B-CAB-CBB
33	i5	202	CYC	C2B-C3B-CAB-CBB
33	k5	201	CYC	C2B-C3B-CAB-CBB
33	c6	201	CYC	C2B-C3B-CAB-CBB
33	e6	201	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
33	i6	202	CYC	C2B-C3B-CAB-CBB
33	k6	201	CYC	C2B-C3B-CAB-CBB
33	B6	301	CYC	C2B-C3B-CAB-CBB
33	c7	201	CYC	C2B-C3B-CAB-CBB
33	e7	201	CYC	C2B-C3B-CAB-CBB
33	i7	202	CYC	C2B-C3B-CAB-CBB
33	k7	201	CYC	C2B-C3B-CAB-CBB
33	B7	301	CYC	C2B-C3B-CAB-CBB
33	c8	201	CYC	C2B-C3B-CAB-CBB
33	e8	201	CYC	C2B-C3B-CAB-CBB
33	g8	202	CYC	C2B-C3B-CAB-CBB
33	i8	202	CYC	C2B-C3B-CAB-CBB
33	k8	201	CYC	C2B-C3B-CAB-CBB
33	c9	201	CYC	C2B-C3B-CAB-CBB
33	e9	201	CYC	C2B-C3B-CAB-CBB
33	i9	202	CYC	C2B-C3B-CAB-CBB
33	k9	201	CYC	C2B-C3B-CAB-CBB
33	B9	301	CYC	C2B-C3B-CAB-CBB
33	cA	201	CYC	C2B-C3B-CAB-CBB
33	eA	201	CYC	C2B-C3B-CAB-CBB
33	iA	202	CYC	C2B-C3B-CAB-CBB
33	kA	201	CYC	C2B-C3B-CAB-CBB
33	cC	201	CYC	C2B-C3B-CAB-CBB
33	eC	201	CYC	C2B-C3B-CAB-CBB
33	iC	202	CYC	C2B-C3B-CAB-CBB
33	kC	201	CYC	C2B-C3B-CAB-CBB
33	cH	201	CYC	C2B-C3B-CAB-CBB
33	eH	201	CYC	C2B-C3B-CAB-CBB
33	gH	202	CYC	C2B-C3B-CAB-CBB
33	iH	202	CYC	C2B-C3B-CAB-CBB
33	kH	201	CYC	C2B-C3B-CAB-CBB
33	cI	201	CYC	C2B-C3B-CAB-CBB
33	eI	201	CYC	C2B-C3B-CAB-CBB
33	iI	202	CYC	C2B-C3B-CAB-CBB
33	kI	201	CYC	C2B-C3B-CAB-CBB
33	cJ	201	CYC	C2B-C3B-CAB-CBB
33	eJ	201	CYC	C2B-C3B-CAB-CBB
33	gJ	202	CYC	C2B-C3B-CAB-CBB
33	iJ	202	CYC	C2B-C3B-CAB-CBB
33	kJ	201	CYC	C2B-C3B-CAB-CBB
36	BD	603	CLA	O1D-CGD-O2D-CED
36	CD	515	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
36	BE	603	CLA	O1D-CGD-O2D-CED
36	CE	515	CLA	O1D-CGD-O2D-CED
36	B1	603	CLA	O1D-CGD-O2D-CED
36	C1	515	CLA	O1D-CGD-O2D-CED
36	a1	405	CLA	O1D-CGD-O2D-CED
36	b1	605	CLA	O1D-CGD-O2D-CED
36	c1	514	CLA	O1D-CGD-O2D-CED
36	aD	404	CLA	O1D-CGD-O2D-CED
36	bD	605	CLA	O1D-CGD-O2D-CED
36	cD	514	CLA	O1D-CGD-O2D-CED
36	aE	404	CLA	O1D-CGD-O2D-CED
36	bE	605	CLA	O1D-CGD-O2D-CED
36	cE	514	CLA	O1D-CGD-O2D-CED
33	RG	201	CYC	C2B-C3B-CAB-CBB
33	RL	201	CYC	C2B-C3B-CAB-CBB
36	AD	404	CLA	O1D-CGD-O2D-CED
36	CD	513	CLA	O1D-CGD-O2D-CED
36	HD	101	CLA	O1D-CGD-O2D-CED
36	AE	404	CLA	O1D-CGD-O2D-CED
36	CE	513	CLA	O1D-CGD-O2D-CED
36	HE	101	CLA	O1D-CGD-O2D-CED
36	A1	404	CLA	O1D-CGD-O2D-CED
36	C1	513	CLA	O1D-CGD-O2D-CED
36	H1	101	CLA	O1D-CGD-O2D-CED
36	h1	101	CLA	O1D-CGD-O2D-CED
36	hD	101	CLA	O1D-CGD-O2D-CED
36	hE	101	CLA	O1D-CGD-O2D-CED
36	AD	405	CLA	CBD-CGD-O2D-CED
36	BD	607	CLA	CBD-CGD-O2D-CED
36	BD	614	CLA	CBD-CGD-O2D-CED
36	CD	505	CLA	CBD-CGD-O2D-CED
36	CD	508	CLA	CBD-CGD-O2D-CED
36	CD	509	CLA	CBD-CGD-O2D-CED
36	CD	510	CLA	CBD-CGD-O2D-CED
36	CD	511	CLA	CBD-CGD-O2D-CED
36	CD	515	CLA	CBD-CGD-O2D-CED
36	DD	406	CLA	CBD-CGD-O2D-CED
36	HD	101	CLA	CBD-CGD-O2D-CED
36	AE	405	CLA	CBD-CGD-O2D-CED
36	BE	607	CLA	CBD-CGD-O2D-CED
36	BE	614	CLA	CBD-CGD-O2D-CED
36	CE	505	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
36	CE	508	CLA	CBD-CGD-O2D-CED
36	CE	509	CLA	CBD-CGD-O2D-CED
36	CE	510	CLA	CBD-CGD-O2D-CED
36	CE	511	CLA	CBD-CGD-O2D-CED
36	CE	515	CLA	CBD-CGD-O2D-CED
36	DE	406	CLA	CBD-CGD-O2D-CED
36	HE	101	CLA	CBD-CGD-O2D-CED
36	A1	405	CLA	CBD-CGD-O2D-CED
36	B1	607	CLA	CBD-CGD-O2D-CED
36	B1	614	CLA	CBD-CGD-O2D-CED
36	C1	505	CLA	CBD-CGD-O2D-CED
36	C1	508	CLA	CBD-CGD-O2D-CED
36	C1	509	CLA	CBD-CGD-O2D-CED
36	C1	510	CLA	CBD-CGD-O2D-CED
36	C1	511	CLA	CBD-CGD-O2D-CED
36	C1	515	CLA	CBD-CGD-O2D-CED
36	D1	405	CLA	CBD-CGD-O2D-CED
36	H1	101	CLA	CBD-CGD-O2D-CED
36	a1	405	CLA	CBD-CGD-O2D-CED
36	b1	609	CLA	CBD-CGD-O2D-CED
36	b1	615	CLA	CBD-CGD-O2D-CED
36	c1	508	CLA	CBD-CGD-O2D-CED
36	c1	514	CLA	CBD-CGD-O2D-CED
36	d1	406	CLA	CBD-CGD-O2D-CED
36	h1	101	CLA	CBD-CGD-O2D-CED
36	aD	404	CLA	CBD-CGD-O2D-CED
36	bD	609	CLA	CBD-CGD-O2D-CED
36	bD	615	CLA	CBD-CGD-O2D-CED
36	cD	508	CLA	CBD-CGD-O2D-CED
36	cD	514	CLA	CBD-CGD-O2D-CED
36	dD	406	CLA	CBD-CGD-O2D-CED
36	hD	101	CLA	CBD-CGD-O2D-CED
36	aE	404	CLA	CBD-CGD-O2D-CED
36	bE	609	CLA	CBD-CGD-O2D-CED
36	bE	615	CLA	CBD-CGD-O2D-CED
36	cE	508	CLA	CBD-CGD-O2D-CED
36	cE	514	CLA	CBD-CGD-O2D-CED
36	dE	406	CLA	CBD-CGD-O2D-CED
36	hE	101	CLA	CBD-CGD-O2D-CED
36	CD	508	CLA	O1D-CGD-O2D-CED
36	CD	511	CLA	O1D-CGD-O2D-CED
36	CE	508	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
36	CE	511	CLA	O1D-CGD-O2D-CED
36	C1	508	CLA	O1D-CGD-O2D-CED
36	C1	511	CLA	O1D-CGD-O2D-CED
33	JG	201	CYC	C2B-C3B-CAB-CBB
33	JL	201	CYC	C2B-C3B-CAB-CBB
36	BD	608	CLA	O1D-CGD-O2D-CED
36	BE	608	CLA	O1D-CGD-O2D-CED
36	B1	608	CLA	O1D-CGD-O2D-CED
36	c1	507	CLA	O1D-CGD-O2D-CED
36	d1	403	CLA	O1D-CGD-O2D-CED
36	cD	507	CLA	O1D-CGD-O2D-CED
36	dD	403	CLA	O1D-CGD-O2D-CED
36	cE	507	CLA	O1D-CGD-O2D-CED
36	dE	403	CLA	O1D-CGD-O2D-CED
36	BD	610	CLA	CBD-CGD-O2D-CED
36	ID	101	CLA	CBD-CGD-O2D-CED
36	BE	610	CLA	CBD-CGD-O2D-CED
36	IE	101	CLA	CBD-CGD-O2D-CED
36	B1	610	CLA	CBD-CGD-O2D-CED
36	I1	101	CLA	CBD-CGD-O2D-CED
36	a1	406	CLA	CBD-CGD-O2D-CED
36	b1	611	CLA	CBD-CGD-O2D-CED
36	c1	502	CLA	CBD-CGD-O2D-CED
36	c1	509	CLA	CBD-CGD-O2D-CED
36	c1	513	CLA	CBD-CGD-O2D-CED
36	aD	405	CLA	CBD-CGD-O2D-CED
36	bD	611	CLA	CBD-CGD-O2D-CED
36	cD	503	CLA	CBD-CGD-O2D-CED
36	cD	509	CLA	CBD-CGD-O2D-CED
36	cD	513	CLA	CBD-CGD-O2D-CED
36	aE	405	CLA	CBD-CGD-O2D-CED
36	bE	611	CLA	CBD-CGD-O2D-CED
36	cE	503	CLA	CBD-CGD-O2D-CED
36	cE	509	CLA	CBD-CGD-O2D-CED
36	cE	513	CLA	CBD-CGD-O2D-CED
36	CD	511	CLA	O1A-CGA-O2A-C1
36	CE	511	CLA	O1A-CGA-O2A-C1
36	C1	511	CLA	O1A-CGA-O2A-C1
36	c1	510	CLA	O1A-CGA-O2A-C1
36	cD	510	CLA	O1A-CGA-O2A-C1
36	cE	510	CLA	O1A-CGA-O2A-C1
42	BD	620	LHG	O10-C23-O8-C6

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Mol	Chain	Res	Type	Atoms
42	BE	620	LHG	O10-C23-O8-C6
42	B1	621	LHG	O10-C23-O8-C6
42	l1	101	LHG	O10-C23-O8-C6
42	lD	101	LHG	O10-C23-O8-C6
42	lE	101	LHG	O10-C23-O8-C6
36	c1	510	CLA	O1D-CGD-O2D-CED
36	c1	512	CLA	O1D-CGD-O2D-CED
36	cD	510	CLA	O1D-CGD-O2D-CED
36	cD	512	CLA	O1D-CGD-O2D-CED
36	cE	510	CLA	O1D-CGD-O2D-CED
36	cE	512	CLA	O1D-CGD-O2D-CED
36	BD	601	CLA	O1D-CGD-O2D-CED
36	CD	503	CLA	O1D-CGD-O2D-CED
36	BE	601	CLA	O1D-CGD-O2D-CED
36	CE	503	CLA	O1D-CGD-O2D-CED
36	B1	601	CLA	O1D-CGD-O2D-CED
36	C1	503	CLA	O1D-CGD-O2D-CED
36	b1	603	CLA	O1D-CGD-O2D-CED
36	bD	603	CLA	O1D-CGD-O2D-CED
36	bE	603	CLA	O1D-CGD-O2D-CED
33	b2	201	CYC	C2B-C3B-CAB-CBB
33	d2	201	CYC	C2B-C3B-CAB-CBB
33	f2	201	CYC	C2B-C3B-CAB-CBB
33	h2	201	CYC	C2B-C3B-CAB-CBB
33	j2	201	CYC	C2B-C3B-CAB-CBB
33	l2	201	CYC	C2B-C3B-CAB-CBB
33	b3	201	CYC	C2B-C3B-CAB-CBB
33	d3	201	CYC	C2B-C3B-CAB-CBB
33	f3	201	CYC	C2B-C3B-CAB-CBB
33	h3	201	CYC	C2B-C3B-CAB-CBB
33	j3	201	CYC	C2B-C3B-CAB-CBB
33	l3	201	CYC	C2B-C3B-CAB-CBB
33	b5	201	CYC	C2B-C3B-CAB-CBB
33	d5	201	CYC	C2B-C3B-CAB-CBB
33	f5	201	CYC	C2B-C3B-CAB-CBB
33	h5	201	CYC	C2B-C3B-CAB-CBB
33	j5	201	CYC	C2B-C3B-CAB-CBB
33	l5	201	CYC	C2B-C3B-CAB-CBB
33	b6	201	CYC	C2B-C3B-CAB-CBB
33	d6	201	CYC	C2B-C3B-CAB-CBB
33	f6	201	CYC	C2B-C3B-CAB-CBB
33	h6	201	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
33	j6	201	CYC	C2B-C3B-CAB-CBB
33	l6	201	CYC	C2B-C3B-CAB-CBB
33	b7	201	CYC	C2B-C3B-CAB-CBB
33	d7	201	CYC	C2B-C3B-CAB-CBB
33	f7	201	CYC	C2B-C3B-CAB-CBB
33	h7	201	CYC	C2B-C3B-CAB-CBB
33	j7	201	CYC	C2B-C3B-CAB-CBB
33	l7	201	CYC	C2B-C3B-CAB-CBB
33	b8	201	CYC	C2B-C3B-CAB-CBB
33	d8	201	CYC	C2B-C3B-CAB-CBB
33	f8	201	CYC	C2B-C3B-CAB-CBB
33	h8	201	CYC	C2B-C3B-CAB-CBB
33	j8	201	CYC	C2B-C3B-CAB-CBB
33	l8	201	CYC	C2B-C3B-CAB-CBB
33	b9	201	CYC	C2B-C3B-CAB-CBB
33	d9	201	CYC	C2B-C3B-CAB-CBB
33	f9	201	CYC	C2B-C3B-CAB-CBB
33	h9	201	CYC	C2B-C3B-CAB-CBB
33	j9	201	CYC	C2B-C3B-CAB-CBB
33	l9	201	CYC	C2B-C3B-CAB-CBB
33	bA	201	CYC	C2B-C3B-CAB-CBB
33	dA	201	CYC	C2B-C3B-CAB-CBB
33	fA	201	CYC	C2B-C3B-CAB-CBB
33	hA	201	CYC	C2B-C3B-CAB-CBB
33	JA	201	CYC	C2B-C3B-CAB-CBB
33	lA	201	CYC	C2B-C3B-CAB-CBB
33	bC	201	CYC	C2B-C3B-CAB-CBB
33	dC	201	CYC	C2B-C3B-CAB-CBB
33	fC	201	CYC	C2B-C3B-CAB-CBB
33	hC	201	CYC	C2B-C3B-CAB-CBB
33	jC	201	CYC	C2B-C3B-CAB-CBB
33	lC	201	CYC	C2B-C3B-CAB-CBB
33	bH	201	CYC	C2B-C3B-CAB-CBB
33	dH	201	CYC	C2B-C3B-CAB-CBB
33	fH	201	CYC	C2B-C3B-CAB-CBB
33	hH	201	CYC	C2B-C3B-CAB-CBB
33	jH	201	CYC	C2B-C3B-CAB-CBB
33	lH	201	CYC	C2B-C3B-CAB-CBB
33	bI	201	CYC	C2B-C3B-CAB-CBB
33	dI	201	CYC	C2B-C3B-CAB-CBB
33	fI	201	CYC	C2B-C3B-CAB-CBB
33	hI	201	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
33	jI	201	CYC	C2B-C3B-CAB-CBB
33	lI	201	CYC	C2B-C3B-CAB-CBB
33	bJ	201	CYC	C2B-C3B-CAB-CBB
33	dJ	201	CYC	C2B-C3B-CAB-CBB
33	fJ	201	CYC	C2B-C3B-CAB-CBB
33	hJ	201	CYC	C2B-C3B-CAB-CBB
33	jJ	201	CYC	C2B-C3B-CAB-CBB
33	lJ	201	CYC	C2B-C3B-CAB-CBB
36	CD	506	CLA	CBD-CGD-O2D-CED
36	CE	506	CLA	CBD-CGD-O2D-CED
36	C1	506	CLA	CBD-CGD-O2D-CED
36	c1	504	CLA	O1D-CGD-O2D-CED
36	cD	505	CLA	O1D-CGD-O2D-CED
36	cE	505	CLA	O1D-CGD-O2D-CED
39	CD	519	LMG	O9-C10-O7-C8
39	MD	101	LMG	O9-C10-O7-C8
39	CE	519	LMG	O9-C10-O7-C8
39	ME	101	LMG	O9-C10-O7-C8
39	C1	519	LMG	O9-C10-O7-C8
39	M1	101	LMG	O9-C10-O7-C8
39	j1	102	LMG	O9-C10-O7-C8
39	m1	101	LMG	O9-C10-O7-C8
39	y1	101	LMG	O9-C10-O7-C8
39	jD	102	LMG	O9-C10-O7-C8
39	mD	101	LMG	O9-C10-O7-C8
39	yD	101	LMG	O9-C10-O7-C8
39	jE	102	LMG	O9-C10-O7-C8
39	mE	101	LMG	O9-C10-O7-C8
39	yE	101	LMG	O9-C10-O7-C8
36	BD	602	CLA	C3-C5-C6-C7
36	BD	606	CLA	C3-C5-C6-C7
36	BD	612	CLA	C3-C5-C6-C7
36	CD	507	CLA	C3-C5-C6-C7
36	CD	511	CLA	C3-C5-C6-C7
36	BE	602	CLA	C3-C5-C6-C7
36	BE	606	CLA	C3-C5-C6-C7
36	BE	612	CLA	C3-C5-C6-C7
36	CE	507	CLA	C3-C5-C6-C7
36	CE	511	CLA	C3-C5-C6-C7
36	B1	602	CLA	C3-C5-C6-C7
36	B1	606	CLA	C3-C5-C6-C7
36	B1	612	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
36	C1	507	CLA	C3-C5-C6-C7
36	C1	511	CLA	C3-C5-C6-C7
36	b1	604	CLA	C3-C5-C6-C7
36	b1	608	CLA	C3-C5-C6-C7
36	b1	613	CLA	C3-C5-C6-C7
36	c1	510	CLA	C3-C5-C6-C7
36	bD	604	CLA	C3-C5-C6-C7
36	bD	608	CLA	C3-C5-C6-C7
36	bD	613	CLA	C3-C5-C6-C7
36	cD	510	CLA	C3-C5-C6-C7
36	bE	604	CLA	C3-C5-C6-C7
36	bE	608	CLA	C3-C5-C6-C7
36	bE	613	CLA	C3-C5-C6-C7
36	cE	510	CLA	C3-C5-C6-C7
45	DE	401	PHO	C3-C5-C6-C7
45	A1	412	PHO	C3-C5-C6-C7
45	a1	413	PHO	C3-C5-C6-C7
45	aD	412	PHO	C3-C5-C6-C7
45	aE	412	PHO	C3-C5-C6-C7
36	CD	511	CLA	CBA-CGA-O2A-C1
36	CE	511	CLA	CBA-CGA-O2A-C1
36	C1	511	CLA	CBA-CGA-O2A-C1
36	c1	510	CLA	CBA-CGA-O2A-C1
36	cD	510	CLA	CBA-CGA-O2A-C1
36	cE	510	CLA	CBA-CGA-O2A-C1
33	PG	201	CYC	C2B-C3B-CAB-CBB
33	PL	201	CYC	C2B-C3B-CAB-CBB
38	LD	101	SQD	C8-C7-O47-C45
38	LD	102	SQD	C8-C7-O47-C45
38	LE	101	SQD	C8-C7-O47-C45
38	LE	102	SQD	C8-C7-O47-C45
38	L1	101	SQD	C8-C7-O47-C45
38	L1	102	SQD	C8-C7-O47-C45
36	DD	406	CLA	O1D-CGD-O2D-CED
36	DE	406	CLA	O1D-CGD-O2D-CED
36	D1	405	CLA	O1D-CGD-O2D-CED
36	d1	406	CLA	O1D-CGD-O2D-CED
36	dD	406	CLA	O1D-CGD-O2D-CED
36	dE	406	CLA	O1D-CGD-O2D-CED
40	BD	622	LMT	O5B-C5B-C6B-O6B
40	BE	622	LMT	O5B-C5B-C6B-O6B
40	a1	401	LMT	O5B-C5B-C6B-O6B

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Mol	Chain	Res	Type	Atoms
40	j1	101	LMT	O5B-C5B-C6B-O6B
40	jD	101	LMT	O5B-C5B-C6B-O6B
40	jE	101	LMT	O5B-C5B-C6B-O6B
33	MG	201	CYC	C3A-C2A-CAA-CBA
33	ML	201	CYC	C3A-C2A-CAA-CBA
33	z4	201	CYC	C3A-C2A-CAA-CBA
33	zB	201	CYC	C3A-C2A-CAA-CBA
40	AD	412	LMT	O5'-C5'-C6'-O6'
40	AE	412	LMT	O5'-C5'-C6'-O6'
40	A1	413	LMT	O5'-C5'-C6'-O6'
36	ID	101	CLA	C4-C3-C5-C6
36	IE	101	CLA	C4-C3-C5-C6
36	I1	101	CLA	C4-C3-C5-C6
37	AD	406	PL9	C35-C34-C36-C37
37	DD	408	PL9	C40-C39-C41-C42
37	AE	406	PL9	C35-C34-C36-C37
37	DE	408	PL9	C40-C39-C41-C42
37	A1	406	PL9	C35-C34-C36-C37
37	D1	407	PL9	C40-C39-C41-C42
37	d1	408	PL9	C40-C39-C41-C42
37	dD	408	PL9	C40-C39-C41-C42
37	dE	408	PL9	C40-C39-C41-C42
36	CD	514	CLA	CBD-CGD-O2D-CED
36	CE	514	CLA	CBD-CGD-O2D-CED
36	C1	514	CLA	CBD-CGD-O2D-CED
36	BD	609	CLA	C2A-CAA-CBA-CGA
36	CD	509	CLA	C2A-CAA-CBA-CGA
36	CD	512	CLA	C2A-CAA-CBA-CGA
36	BE	609	CLA	C2A-CAA-CBA-CGA
36	CE	509	CLA	C2A-CAA-CBA-CGA
36	CE	512	CLA	C2A-CAA-CBA-CGA
36	B1	609	CLA	C2A-CAA-CBA-CGA
36	C1	509	CLA	C2A-CAA-CBA-CGA
36	C1	512	CLA	C2A-CAA-CBA-CGA
36	b1	610	CLA	C2A-CAA-CBA-CGA
36	c1	508	CLA	C2A-CAA-CBA-CGA
36	c1	511	CLA	C2A-CAA-CBA-CGA
36	bD	610	CLA	C2A-CAA-CBA-CGA
36	cD	508	CLA	C2A-CAA-CBA-CGA
36	cD	511	CLA	C2A-CAA-CBA-CGA
36	bE	610	CLA	C2A-CAA-CBA-CGA
36	cE	508	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
36	cE	511	CLA	C2A-CAA-CBA-CGA
36	XD	101	CLA	C3-C5-C6-C7
36	XE	101	CLA	C3-C5-C6-C7
36	X1	101	CLA	C3-C5-C6-C7
36	x1	101	CLA	C3-C5-C6-C7
36	xD	101	CLA	C3-C5-C6-C7
36	xE	101	CLA	C3-C5-C6-C7
45	DD	401	PHO	C3-C5-C6-C7
36	CD	513	CLA	CBA-CGA-O2A-C1
36	XD	101	CLA	CBA-CGA-O2A-C1
36	CE	513	CLA	CBA-CGA-O2A-C1
36	XE	101	CLA	CBA-CGA-O2A-C1
36	C1	513	CLA	CBA-CGA-O2A-C1
36	X1	101	CLA	CBA-CGA-O2A-C1
36	c1	512	CLA	CBA-CGA-O2A-C1
36	x1	101	CLA	CBA-CGA-O2A-C1
36	cD	512	CLA	CBA-CGA-O2A-C1
36	xD	101	CLA	CBA-CGA-O2A-C1
36	cE	512	CLA	CBA-CGA-O2A-C1
36	xE	101	CLA	CBA-CGA-O2A-C1
39	j1	102	LMG	C29-C28-O8-C9
39	jD	102	LMG	C29-C28-O8-C9
39	jE	102	LMG	C29-C28-O8-C9
42	BD	620	LHG	C24-C23-O8-C6
42	BE	620	LHG	C24-C23-O8-C6
42	B1	621	LHG	C24-C23-O8-C6
42	l1	101	LHG	C24-C23-O8-C6
42	lD	101	LHG	C24-C23-O8-C6
42	lE	101	LHG	C24-C23-O8-C6
33	c2	202	CYC	C1A-C2A-CAA-CBA
33	e2	202	CYC	C1A-C2A-CAA-CBA
33	g2	201	CYC	C1A-C2A-CAA-CBA
33	i2	201	CYC	C1A-C2A-CAA-CBA
33	j2	202	CYC	C1A-C2A-CAA-CBA
33	m2	201	CYC	C1A-C2A-CAA-CBA
33	c3	202	CYC	C1A-C2A-CAA-CBA
33	e3	202	CYC	C1A-C2A-CAA-CBA
33	g3	201	CYC	C1A-C2A-CAA-CBA
33	i3	201	CYC	C1A-C2A-CAA-CBA
33	j3	202	CYC	C1A-C2A-CAA-CBA
33	m3	201	CYC	C1A-C2A-CAA-CBA
33	z4	201	CYC	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
33	B4	1003	CYC	C1A-C2A-CAA-CBA
33	c5	202	CYC	C1A-C2A-CAA-CBA
33	e5	202	CYC	C1A-C2A-CAA-CBA
33	g5	201	CYC	C1A-C2A-CAA-CBA
33	i5	201	CYC	C1A-C2A-CAA-CBA
33	j5	202	CYC	C1A-C2A-CAA-CBA
33	m5	201	CYC	C1A-C2A-CAA-CBA
33	c6	202	CYC	C1A-C2A-CAA-CBA
33	e6	202	CYC	C1A-C2A-CAA-CBA
33	g6	201	CYC	C1A-C2A-CAA-CBA
33	i6	201	CYC	C1A-C2A-CAA-CBA
33	j6	202	CYC	C1A-C2A-CAA-CBA
33	m6	201	CYC	C1A-C2A-CAA-CBA
33	c7	202	CYC	C1A-C2A-CAA-CBA
33	e7	202	CYC	C1A-C2A-CAA-CBA
33	g7	201	CYC	C1A-C2A-CAA-CBA
33	i7	201	CYC	C1A-C2A-CAA-CBA
33	j7	202	CYC	C1A-C2A-CAA-CBA
33	m7	201	CYC	C1A-C2A-CAA-CBA
33	c8	202	CYC	C1A-C2A-CAA-CBA
33	e8	202	CYC	C1A-C2A-CAA-CBA
33	g8	201	CYC	C1A-C2A-CAA-CBA
33	i8	201	CYC	C1A-C2A-CAA-CBA
33	j8	202	CYC	C1A-C2A-CAA-CBA
33	m8	201	CYC	C1A-C2A-CAA-CBA
33	c9	202	CYC	C1A-C2A-CAA-CBA
33	e9	202	CYC	C1A-C2A-CAA-CBA
33	g9	201	CYC	C1A-C2A-CAA-CBA
33	i9	201	CYC	C1A-C2A-CAA-CBA
33	j9	202	CYC	C1A-C2A-CAA-CBA
33	m9	201	CYC	C1A-C2A-CAA-CBA
33	cA	202	CYC	C1A-C2A-CAA-CBA
33	eA	202	CYC	C1A-C2A-CAA-CBA
33	gA	201	CYC	C1A-C2A-CAA-CBA
33	iA	201	CYC	C1A-C2A-CAA-CBA
33	jA	202	CYC	C1A-C2A-CAA-CBA
33	mA	201	CYC	C1A-C2A-CAA-CBA
33	zB	201	CYC	C1A-C2A-CAA-CBA
33	cC	202	CYC	C1A-C2A-CAA-CBA
33	eC	202	CYC	C1A-C2A-CAA-CBA
33	gC	201	CYC	C1A-C2A-CAA-CBA
33	iC	201	CYC	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
33	jC	202	CYC	C1A-C2A-CAA-CBA
33	mC	201	CYC	C1A-C2A-CAA-CBA
33	cH	202	CYC	C1A-C2A-CAA-CBA
33	eH	202	CYC	C1A-C2A-CAA-CBA
33	gH	201	CYC	C1A-C2A-CAA-CBA
33	iH	201	CYC	C1A-C2A-CAA-CBA
33	jH	202	CYC	C1A-C2A-CAA-CBA
33	mH	201	CYC	C1A-C2A-CAA-CBA
33	cI	202	CYC	C1A-C2A-CAA-CBA
33	eI	202	CYC	C1A-C2A-CAA-CBA
33	gI	201	CYC	C1A-C2A-CAA-CBA
33	iI	201	CYC	C1A-C2A-CAA-CBA
33	jI	202	CYC	C1A-C2A-CAA-CBA
33	mI	201	CYC	C1A-C2A-CAA-CBA
33	cJ	202	CYC	C1A-C2A-CAA-CBA
33	eJ	202	CYC	C1A-C2A-CAA-CBA
33	gJ	201	CYC	C1A-C2A-CAA-CBA
33	iJ	201	CYC	C1A-C2A-CAA-CBA
33	jJ	202	CYC	C1A-C2A-CAA-CBA
33	mJ	201	CYC	C1A-C2A-CAA-CBA
36	CD	505	CLA	O1D-CGD-O2D-CED
36	CE	505	CLA	O1D-CGD-O2D-CED
36	C1	505	CLA	O1D-CGD-O2D-CED
36	BD	605	CLA	CBD-CGD-O2D-CED
36	BE	605	CLA	CBD-CGD-O2D-CED
36	B1	605	CLA	CBD-CGD-O2D-CED
36	b1	607	CLA	CBD-CGD-O2D-CED
36	bD	607	CLA	CBD-CGD-O2D-CED
36	bE	607	CLA	CBD-CGD-O2D-CED
36	BD	614	CLA	O1D-CGD-O2D-CED
36	BE	614	CLA	O1D-CGD-O2D-CED
36	B1	614	CLA	O1D-CGD-O2D-CED
36	b1	615	CLA	O1D-CGD-O2D-CED
36	bD	615	CLA	O1D-CGD-O2D-CED
36	bE	615	CLA	O1D-CGD-O2D-CED
40	b1	601	LMT	C4'-C5'-C6'-O6'
40	bD	601	LMT	C4'-C5'-C6'-O6'
40	bE	601	LMT	C4'-C5'-C6'-O6'
36	CD	513	CLA	O1A-CGA-O2A-C1
36	XD	101	CLA	O1A-CGA-O2A-C1
36	CE	513	CLA	O1A-CGA-O2A-C1
36	XE	101	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
36	C1	513	CLA	O1A-CGA-O2A-C1
36	X1	101	CLA	O1A-CGA-O2A-C1
36	c1	512	CLA	O1A-CGA-O2A-C1
36	x1	101	CLA	O1A-CGA-O2A-C1
36	cD	512	CLA	O1A-CGA-O2A-C1
36	xD	101	CLA	O1A-CGA-O2A-C1
36	cE	512	CLA	O1A-CGA-O2A-C1
36	xE	101	CLA	O1A-CGA-O2A-C1
39	JD	102	LMG	O10-C28-O8-C9
39	JE	102	LMG	O10-C28-O8-C9
39	J1	102	LMG	O10-C28-O8-C9
33	AG	201	CYC	C2B-C3B-CAB-CBB
33	AL	201	CYC	C2B-C3B-CAB-CBB
36	CD	509	CLA	O1D-CGD-O2D-CED
36	CE	509	CLA	O1D-CGD-O2D-CED
36	C1	509	CLA	O1D-CGD-O2D-CED
43	BD	616	BCR	C15-C16-C17-C18
43	ZD	101	BCR	C9-C10-C11-C12
43	BE	616	BCR	C15-C16-C17-C18
43	ZE	101	BCR	C9-C10-C11-C12
43	B1	616	BCR	C15-C16-C17-C18
43	Z1	101	BCR	C9-C10-C11-C12
43	b1	617	BCR	C15-C16-C17-C18
43	z1	101	BCR	C9-C10-C11-C12
43	bD	617	BCR	C15-C16-C17-C18
43	zD	101	BCR	C9-C10-C11-C12
43	bE	617	BCR	C15-C16-C17-C18
43	zE	101	BCR	C9-C10-C11-C12
40	bD	602	LMT	O5'-C5'-C6'-O6'
40	bE	602	LMT	O5'-C5'-C6'-O6'
36	c1	505	CLA	CBD-CGD-O2D-CED
36	c1	511	CLA	CBD-CGD-O2D-CED
36	cD	506	CLA	CBD-CGD-O2D-CED
36	cD	511	CLA	CBD-CGD-O2D-CED
36	cE	506	CLA	CBD-CGD-O2D-CED
36	cE	511	CLA	CBD-CGD-O2D-CED
36	c1	506	CLA	C3-C5-C6-C7
36	iD	101	CLA	C3-C5-C6-C7
36	iE	101	CLA	C3-C5-C6-C7
36	CD	508	CLA	CBA-CGA-O2A-C1
36	CE	508	CLA	CBA-CGA-O2A-C1
36	C1	508	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
40	b1	602	LMT	O5'-C5'-C6'-O6'
36	AD	405	CLA	O1D-CGD-O2D-CED
36	BD	607	CLA	O1D-CGD-O2D-CED
36	AE	405	CLA	O1D-CGD-O2D-CED
36	BE	607	CLA	O1D-CGD-O2D-CED
36	A1	405	CLA	O1D-CGD-O2D-CED
36	B1	607	CLA	O1D-CGD-O2D-CED
36	b1	609	CLA	O1D-CGD-O2D-CED
36	bD	609	CLA	O1D-CGD-O2D-CED
36	bE	609	CLA	O1D-CGD-O2D-CED
39	CD	519	LMG	C11-C10-O7-C8
39	CE	519	LMG	C11-C10-O7-C8
39	C1	519	LMG	C11-C10-O7-C8
36	XD	101	CLA	CBD-CGD-O2D-CED
36	XE	101	CLA	CBD-CGD-O2D-CED
36	X1	101	CLA	CBD-CGD-O2D-CED
36	x1	101	CLA	CBD-CGD-O2D-CED
36	xD	101	CLA	CBD-CGD-O2D-CED
36	xE	101	CLA	CBD-CGD-O2D-CED
40	AD	412	LMT	O5B-C5B-C6B-O6B
40	AE	412	LMT	O5B-C5B-C6B-O6B
40	A1	413	LMT	O5B-C5B-C6B-O6B
40	AD	412	LMT	C4B-C5B-C6B-O6B
40	AE	412	LMT	C4B-C5B-C6B-O6B
40	A1	413	LMT	C4B-C5B-C6B-O6B
36	c1	508	CLA	O1D-CGD-O2D-CED
36	cD	508	CLA	O1D-CGD-O2D-CED
36	cE	508	CLA	O1D-CGD-O2D-CED
45	d1	402	PHO	C3-C5-C6-C7
39	JD	102	LMG	C29-C28-O8-C9
39	JE	102	LMG	C29-C28-O8-C9
39	J1	102	LMG	C29-C28-O8-C9
40	AD	412	LMT	C4'-C5'-C6'-O6'
40	AE	412	LMT	C4'-C5'-C6'-O6'
40	A1	413	LMT	C4'-C5'-C6'-O6'
33	RB	201	CYC	C2A-CAA-CBA-CGA
33	JG	201	CYC	C2A-CAA-CBA-CGA
33	LG	201	CYC	C2A-CAA-CBA-CGA
33	JL	201	CYC	C2A-CAA-CBA-CGA
33	LL	201	CYC	C2A-CAA-CBA-CGA
33	b4	101	CYC	C2A-CAA-CBA-CGA
33	y4	201	CYC	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
33	z4	201	CYC	C2A-CAA-CBA-CGA
33	R4	201	CYC	C2A-CAA-CBA-CGA
33	bB	101	CYC	C2A-CAA-CBA-CGA
33	yB	201	CYC	C2A-CAA-CBA-CGA
33	zB	201	CYC	C2A-CAA-CBA-CGA
33	bF	201	CYC	C2A-CAA-CBA-CGA
33	7G	201	CYC	NA-C4A-CHB-C1B
33	7G	201	CYC	C2A-CAA-CBA-CGA
33	bK	201	CYC	C2A-CAA-CBA-CGA
33	7L	201	CYC	NA-C4A-CHB-C1B
33	7L	201	CYC	C2A-CAA-CBA-CGA
40	b1	601	LMT	O5B-C5B-C6B-O6B
40	bD	601	LMT	O5B-C5B-C6B-O6B
40	bE	601	LMT	O5B-C5B-C6B-O6B
37	AD	406	PL9	C40-C39-C41-C42
37	AE	406	PL9	C40-C39-C41-C42
37	A1	406	PL9	C40-C39-C41-C42
37	AD	406	PL9	C38-C39-C41-C42
37	AE	406	PL9	C38-C39-C41-C42
37	A1	406	PL9	C38-C39-C41-C42
36	b1	613	CLA	C2A-CAA-CBA-CGA
36	bD	613	CLA	C2A-CAA-CBA-CGA
36	bE	613	CLA	C2A-CAA-CBA-CGA
33	VB	201	CYC	C3A-C4A-CHB-C1B
33	LF	201	CYC	C3A-C4A-CHB-C1B
33	LK	201	CYC	C3A-C4A-CHB-C1B
33	a4	201	CYC	C3A-C4A-CHB-C1B
33	V4	201	CYC	C3A-C4A-CHB-C1B
33	aB	201	CYC	C3A-C4A-CHB-C1B
36	CD	510	CLA	O1D-CGD-O2D-CED
36	CE	510	CLA	O1D-CGD-O2D-CED
36	C1	510	CLA	O1D-CGD-O2D-CED
36	a1	406	CLA	O1D-CGD-O2D-CED
36	aD	405	CLA	O1D-CGD-O2D-CED
36	aE	405	CLA	O1D-CGD-O2D-CED
36	CD	508	CLA	O1A-CGA-O2A-C1
36	CE	508	CLA	O1A-CGA-O2A-C1
36	C1	508	CLA	O1A-CGA-O2A-C1
39	j1	102	LMG	O10-C28-O8-C9
39	jD	102	LMG	O10-C28-O8-C9
39	jE	102	LMG	O10-C28-O8-C9
44	c1	517	DGD	O6E-C1E-O5D-C6D

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Mol	Chain	Res	Type	Atoms
44	cD	517	DGD	O6E-C1E-O5D-C6D
44	cE	517	DGD	O6E-C1E-O5D-C6D
37	DD	408	PL9	C39-C41-C42-C43
37	DD	408	PL9	C44-C46-C47-C48
37	DE	408	PL9	C39-C41-C42-C43
37	DE	408	PL9	C44-C46-C47-C48
37	D1	407	PL9	C39-C41-C42-C43
37	D1	407	PL9	C44-C46-C47-C48
37	d1	408	PL9	C39-C41-C42-C43
37	d1	408	PL9	C44-C46-C47-C48
37	dD	408	PL9	C39-C41-C42-C43
37	dD	408	PL9	C44-C46-C47-C48
37	dE	408	PL9	C39-C41-C42-C43
37	dE	408	PL9	C44-C46-C47-C48
36	aD	406	CLA	CBA-CGA-O2A-C1
36	aE	406	CLA	CBA-CGA-O2A-C1
33	BB	1003	CYC	C1A-C2A-CAA-CBA
33	fF	201	CYC	C2B-C3B-CAB-CBB
33	fK	201	CYC	C2B-C3B-CAB-CBB
36	c1	502	CLA	O1D-CGD-O2D-CED
36	cD	503	CLA	O1D-CGD-O2D-CED
36	cE	503	CLA	O1D-CGD-O2D-CED
33	jF	201	CYC	C2B-C3B-CAB-CBB
33	jK	201	CYC	C2B-C3B-CAB-CBB
36	ID	101	CLA	O1D-CGD-O2D-CED
36	IE	101	CLA	O1D-CGD-O2D-CED
36	I1	101	CLA	O1D-CGD-O2D-CED
40	b1	601	LMT	O5'-C5'-C6'-O6'
40	bD	601	LMT	O5'-C5'-C6'-O6'
40	bE	601	LMT	O5'-C5'-C6'-O6'
40	BD	622	LMT	C4B-C5B-C6B-O6B
40	BE	622	LMT	C4B-C5B-C6B-O6B
40	a1	401	LMT	C4B-C5B-C6B-O6B
45	DD	403	PHO	C3-C5-C6-C7
45	DE	403	PHO	C3-C5-C6-C7
45	D1	402	PHO	C3-C5-C6-C7
36	c1	513	CLA	O1D-CGD-O2D-CED
36	cD	513	CLA	O1D-CGD-O2D-CED
36	cE	513	CLA	O1D-CGD-O2D-CED
36	a1	407	CLA	CBA-CGA-O2A-C1
36	c1	507	CLA	CBA-CGA-O2A-C1
36	cD	507	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
36	cE	507	CLA	CBA-CGA-O2A-C1
45	DD	403	PHO	CBA-CGA-O2A-C1
45	DE	403	PHO	CBA-CGA-O2A-C1
45	D1	402	PHO	CBA-CGA-O2A-C1
45	d1	402	PHO	CBA-CGA-O2A-C1
45	dD	402	PHO	CBA-CGA-O2A-C1
45	dE	402	PHO	CBA-CGA-O2A-C1
40	b1	601	LMT	C4B-C5B-C6B-O6B
40	bD	601	LMT	C4B-C5B-C6B-O6B
40	bE	601	LMT	C4B-C5B-C6B-O6B
43	BD	615	BCR	C13-C14-C15-C16
43	BE	615	BCR	C13-C14-C15-C16
43	B1	615	BCR	C13-C14-C15-C16
43	b1	616	BCR	C13-C14-C15-C16
43	bD	616	BCR	C13-C14-C15-C16
43	bE	616	BCR	C13-C14-C15-C16
39	y1	101	LMG	C28-C29-C30-C31
39	yD	101	LMG	C28-C29-C30-C31
39	yE	101	LMG	C28-C29-C30-C31
40	BD	622	LMT	O1'-C1-C2-C3
40	BE	622	LMT	O1'-C1-C2-C3
40	a1	401	LMT	O1'-C1-C2-C3
36	c1	512	CLA	C15-C16-C17-C18
36	cD	512	CLA	C15-C16-C17-C18
36	cE	512	CLA	C15-C16-C17-C18
40	j1	101	LMT	C4B-C5B-C6B-O6B
40	jD	101	LMT	C4B-C5B-C6B-O6B
40	jE	101	LMT	C4B-C5B-C6B-O6B
33	CB	1001	CYC	C3A-C2A-CAA-CBA
33	C4	1001	CYC	C3A-C2A-CAA-CBA
36	cE	510	CLA	C15-C16-C17-C18
39	y1	101	LMG	C10-C11-C12-C13
39	yD	101	LMG	C10-C11-C12-C13
39	yE	101	LMG	C10-C11-C12-C13
44	CD	518	DGD	C1B-C2B-C3B-C4B
44	C1	518	DGD	C1B-C2B-C3B-C4B
44	c1	517	DGD	C1B-C2B-C3B-C4B
44	cD	517	DGD	C1B-C2B-C3B-C4B
44	cE	517	DGD	C1B-C2B-C3B-C4B
38	h1	103	SQD	C2-C1-O6-C44
38	hD	103	SQD	C2-C1-O6-C44
38	hE	103	SQD	C2-C1-O6-C44

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Mol	Chain	Res	Type	Atoms
40	DD	412	LMT	C2'-C1'-O1'-C1
40	DE	412	LMT	C2'-C1'-O1'-C1
40	D1	411	LMT	C2'-C1'-O1'-C1
40	d1	412	LMT	C2'-C1'-O1'-C1
40	j1	101	LMT	C2'-C1'-O1'-C1
40	dD	412	LMT	C2'-C1'-O1'-C1
40	jD	101	LMT	C2'-C1'-O1'-C1
40	dE	412	LMT	C2'-C1'-O1'-C1
40	jE	101	LMT	C2'-C1'-O1'-C1
37	AD	406	PL9	C33-C34-C36-C37
37	AE	406	PL9	C33-C34-C36-C37
37	A1	406	PL9	C33-C34-C36-C37
36	CD	504	CLA	C6-C7-C8-C9
36	CD	515	CLA	C6-C7-C8-C9
36	CE	504	CLA	C6-C7-C8-C9
36	CE	515	CLA	C6-C7-C8-C9
36	C1	504	CLA	C6-C7-C8-C9
36	C1	515	CLA	C6-C7-C8-C9
36	c1	514	CLA	C6-C7-C8-C9
36	cD	514	CLA	C6-C7-C8-C9
36	cE	514	CLA	C6-C7-C8-C9
45	DD	403	PHO	C6-C7-C8-C9
45	DE	403	PHO	C6-C7-C8-C9
45	D1	402	PHO	C6-C7-C8-C9
36	BD	610	CLA	O1D-CGD-O2D-CED
36	BE	610	CLA	O1D-CGD-O2D-CED
36	B1	610	CLA	O1D-CGD-O2D-CED
36	b1	611	CLA	O1D-CGD-O2D-CED
36	c1	509	CLA	O1D-CGD-O2D-CED
36	bD	611	CLA	O1D-CGD-O2D-CED
36	cD	509	CLA	O1D-CGD-O2D-CED
36	bE	611	CLA	O1D-CGD-O2D-CED
36	cE	509	CLA	O1D-CGD-O2D-CED
36	DD	405	CLA	CBD-CGD-O2D-CED
36	DE	405	CLA	CBD-CGD-O2D-CED
36	D1	404	CLA	CBD-CGD-O2D-CED
36	d1	405	CLA	CBD-CGD-O2D-CED
36	dD	405	CLA	CBD-CGD-O2D-CED
36	dE	405	CLA	CBD-CGD-O2D-CED
36	BD	611	CLA	C5-C6-C7-C8
36	BE	611	CLA	C5-C6-C7-C8
36	B1	611	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
36	b1	612	CLA	C5-C6-C7-C8
36	c1	505	CLA	C15-C16-C17-C18
36	c1	510	CLA	C15-C16-C17-C18
36	bD	612	CLA	C5-C6-C7-C8
36	cD	506	CLA	C15-C16-C17-C18
36	cD	510	CLA	C15-C16-C17-C18
36	bE	612	CLA	C5-C6-C7-C8
36	cE	506	CLA	C15-C16-C17-C18
36	BD	606	CLA	C2A-CAA-CBA-CGA
36	BD	612	CLA	C2A-CAA-CBA-CGA
36	BE	606	CLA	C2A-CAA-CBA-CGA
36	BE	612	CLA	C2A-CAA-CBA-CGA
36	B1	606	CLA	C2A-CAA-CBA-CGA
36	B1	612	CLA	C2A-CAA-CBA-CGA
36	b1	608	CLA	C2A-CAA-CBA-CGA
36	bD	608	CLA	C2A-CAA-CBA-CGA
36	bE	608	CLA	C2A-CAA-CBA-CGA
43	BD	615	BCR	C11-C12-C13-C35
43	BD	615	BCR	C37-C22-C23-C24
43	BD	617	BCR	C7-C8-C9-C34
43	BD	617	BCR	C37-C22-C23-C24
43	CD	516	BCR	C7-C8-C9-C34
43	CD	516	BCR	C37-C22-C23-C24
43	ID	102	BCR	C36-C18-C19-C20
43	ZD	101	BCR	C7-C8-C9-C34
43	ZD	101	BCR	C37-C22-C23-C24
43	BE	615	BCR	C11-C12-C13-C35
43	BE	615	BCR	C37-C22-C23-C24
43	BE	617	BCR	C7-C8-C9-C34
43	BE	617	BCR	C37-C22-C23-C24
43	CE	516	BCR	C7-C8-C9-C34
43	CE	516	BCR	C37-C22-C23-C24
43	IE	102	BCR	C36-C18-C19-C20
43	ZE	101	BCR	C7-C8-C9-C34
43	ZE	101	BCR	C37-C22-C23-C24
43	B1	615	BCR	C11-C12-C13-C35
43	B1	615	BCR	C37-C22-C23-C24
43	B1	617	BCR	C7-C8-C9-C34
43	B1	617	BCR	C37-C22-C23-C24
43	C1	516	BCR	C7-C8-C9-C34
43	C1	516	BCR	C37-C22-C23-C24
43	I1	102	BCR	C36-C18-C19-C20

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Mol	Chain	Res	Type	Atoms
43	Z1	101	BCR	C7-C8-C9-C34
43	Z1	101	BCR	C37-C22-C23-C24
43	b1	616	BCR	C11-C12-C13-C35
43	b1	616	BCR	C37-C22-C23-C24
43	b1	618	BCR	C7-C8-C9-C34
43	b1	618	BCR	C37-C22-C23-C24
43	c1	515	BCR	C7-C8-C9-C34
43	i1	101	BCR	C7-C8-C9-C34
43	z1	101	BCR	C7-C8-C9-C34
43	z1	101	BCR	C37-C22-C23-C24
43	bD	616	BCR	C11-C12-C13-C35
43	bD	616	BCR	C37-C22-C23-C24
43	bD	618	BCR	C7-C8-C9-C34
43	bD	618	BCR	C37-C22-C23-C24
43	cD	515	BCR	C7-C8-C9-C34
43	iD	102	BCR	C7-C8-C9-C34
43	zD	101	BCR	C7-C8-C9-C34
43	zD	101	BCR	C37-C22-C23-C24
43	bE	616	BCR	C11-C12-C13-C35
43	bE	616	BCR	C37-C22-C23-C24
43	bE	618	BCR	C7-C8-C9-C34
43	bE	618	BCR	C37-C22-C23-C24
43	cE	515	BCR	C7-C8-C9-C34
43	iE	102	BCR	C7-C8-C9-C34
43	zE	101	BCR	C7-C8-C9-C34
43	zE	101	BCR	C37-C22-C23-C24
43	BD	615	BCR	C11-C12-C13-C14
43	BD	615	BCR	C21-C22-C23-C24
43	BD	617	BCR	C7-C8-C9-C10
43	CD	516	BCR	C7-C8-C9-C10
43	CD	516	BCR	C21-C22-C23-C24
43	ZD	101	BCR	C7-C8-C9-C10
43	BE	615	BCR	C11-C12-C13-C14
43	BE	615	BCR	C21-C22-C23-C24
43	BE	617	BCR	C7-C8-C9-C10
43	CE	516	BCR	C7-C8-C9-C10
43	CE	516	BCR	C21-C22-C23-C24
43	ZE	101	BCR	C7-C8-C9-C10
43	B1	615	BCR	C11-C12-C13-C14
43	B1	615	BCR	C21-C22-C23-C24
43	B1	617	BCR	C7-C8-C9-C10
43	C1	516	BCR	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
43	C1	516	BCR	C21-C22-C23-C24
43	Z1	101	BCR	C7-C8-C9-C10
43	b1	616	BCR	C11-C12-C13-C14
43	b1	616	BCR	C21-C22-C23-C24
43	b1	618	BCR	C7-C8-C9-C10
43	c1	515	BCR	C7-C8-C9-C10
43	z1	101	BCR	C7-C8-C9-C10
43	bD	616	BCR	C11-C12-C13-C14
43	bD	616	BCR	C21-C22-C23-C24
43	bD	618	BCR	C7-C8-C9-C10
43	cD	515	BCR	C7-C8-C9-C10
43	zD	101	BCR	C7-C8-C9-C10
43	bE	616	BCR	C11-C12-C13-C14
43	bE	616	BCR	C21-C22-C23-C24
43	bE	618	BCR	C7-C8-C9-C10
43	cE	515	BCR	C7-C8-C9-C10
43	zE	101	BCR	C7-C8-C9-C10
44	CD	517	DGD	C2B-C1B-O2G-C2G
44	CE	517	DGD	C2B-C1B-O2G-C2G
44	C1	517	DGD	C2B-C1B-O2G-C2G
39	j1	102	LMG	C10-C11-C12-C13
39	jD	102	LMG	C10-C11-C12-C13
39	jE	102	LMG	C10-C11-C12-C13
44	CE	518	DGD	C1B-C2B-C3B-C4B
36	c1	507	CLA	O1A-CGA-O2A-C1
36	cD	507	CLA	O1A-CGA-O2A-C1
36	cE	507	CLA	O1A-CGA-O2A-C1
45	d1	402	PHO	O1A-CGA-O2A-C1
45	dD	402	PHO	O1A-CGA-O2A-C1
45	dE	402	PHO	O1A-CGA-O2A-C1
36	BD	611	CLA	C10-C11-C12-C13
36	ID	101	CLA	C5-C6-C7-C8
36	BE	611	CLA	C10-C11-C12-C13
36	IE	101	CLA	C5-C6-C7-C8
36	B1	611	CLA	C10-C11-C12-C13
36	I1	101	CLA	C5-C6-C7-C8
36	b1	612	CLA	C10-C11-C12-C13
36	bD	612	CLA	C10-C11-C12-C13
36	bE	612	CLA	C10-C11-C12-C13
40	d1	413	LMT	O5'-C5'-C6'-O6'
40	dD	413	LMT	O5'-C5'-C6'-O6'
40	dE	413	LMT	O5'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
40	b1	602	LMT	C4'-C5'-C6'-O6'
40	bD	602	LMT	C4'-C5'-C6'-O6'
40	bE	602	LMT	C4'-C5'-C6'-O6'
36	a1	407	CLA	C3-C5-C6-C7
36	aD	406	CLA	C3-C5-C6-C7
36	aE	406	CLA	C3-C5-C6-C7
36	BD	605	CLA	CBA-CGA-O2A-C1
36	BE	605	CLA	CBA-CGA-O2A-C1
36	B1	605	CLA	CBA-CGA-O2A-C1
36	bD	607	CLA	CBA-CGA-O2A-C1
33	CB	1001	CYC	C3D-CAD-CBD-CGD
33	PB	201	CYC	C3D-CAD-CBD-CGD
33	SB	201	CYC	C3D-CAD-CBD-CGD
33	VB	201	CYC	C3D-CAD-CBD-CGD
33	LF	201	CYC	C3D-CAD-CBD-CGD
33	LK	201	CYC	C3D-CAD-CBD-CGD
33	a4	201	CYC	C3D-CAD-CBD-CGD
33	S4	201	CYC	C3D-CAD-CBD-CGD
33	V4	201	CYC	C3D-CAD-CBD-CGD
33	u4	201	CYC	C3D-CAD-CBD-CGD
33	C4	1001	CYC	C3D-CAD-CBD-CGD
33	P4	201	CYC	C3D-CAD-CBD-CGD
33	aB	201	CYC	C3D-CAD-CBD-CGD
33	uB	201	CYC	C3D-CAD-CBD-CGD
33	1G	201	CYC	C3D-CAD-CBD-CGD
33	7G	201	CYC	C3D-CAD-CBD-CGD
33	1L	201	CYC	C3D-CAD-CBD-CGD
33	7L	201	CYC	C3D-CAD-CBD-CGD
47	ED	101	HEM	C2A-CAA-CBA-CGA
47	EE	101	HEM	C2A-CAA-CBA-CGA
47	E1	101	HEM	C2A-CAA-CBA-CGA
47	f1	101	HEM	C2A-CAA-CBA-CGA
47	fD	101	HEM	C2A-CAA-CBA-CGA
47	fE	101	HEM	C2A-CAA-CBA-CGA
36	BD	604	CLA	C8-C10-C11-C12
36	BD	607	CLA	C15-C16-C17-C18
36	CD	503	CLA	C15-C16-C17-C18
36	CD	506	CLA	C15-C16-C17-C18
36	CD	508	CLA	C13-C15-C16-C17
36	BE	604	CLA	C8-C10-C11-C12
36	BE	607	CLA	C15-C16-C17-C18
36	CE	503	CLA	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
36	CE	506	CLA	C15-C16-C17-C18
36	CE	508	CLA	C13-C15-C16-C17
36	B1	604	CLA	C8-C10-C11-C12
36	B1	607	CLA	C15-C16-C17-C18
36	C1	503	CLA	C15-C16-C17-C18
36	C1	506	CLA	C15-C16-C17-C18
36	C1	508	CLA	C13-C15-C16-C17
36	b1	606	CLA	C8-C10-C11-C12
36	b1	609	CLA	C15-C16-C17-C18
36	bD	606	CLA	C8-C10-C11-C12
36	bD	609	CLA	C15-C16-C17-C18
36	bE	606	CLA	C8-C10-C11-C12
36	bE	609	CLA	C15-C16-C17-C18
38	LD	101	SQD	C7-C8-C9-C10
38	LD	102	SQD	C7-C8-C9-C10
38	LE	101	SQD	C7-C8-C9-C10
38	LE	102	SQD	C7-C8-C9-C10
38	L1	101	SQD	C7-C8-C9-C10
38	L1	102	SQD	C7-C8-C9-C10
44	JE	101	DGD	C1A-C2A-C3A-C4A
33	3F	102	CYC	NA-C1A-CHA-C4D
33	3K	102	CYC	NA-C1A-CHA-C4D
33	BA	301	CYC	C4B-C3B-CAB-CBB
33	BC	301	CYC	C4B-C3B-CAB-CBB
33	XF	201	CYC	C4B-C3B-CAB-CBB
33	PG	201	CYC	C4B-C3B-CAB-CBB
33	BI	301	CYC	C4B-C3B-CAB-CBB
33	XK	201	CYC	C4B-C3B-CAB-CBB
33	PL	201	CYC	C4B-C3B-CAB-CBB
33	c2	201	CYC	C4B-C3B-CAB-CBB
33	e2	201	CYC	C4B-C3B-CAB-CBB
33	i2	202	CYC	C4B-C3B-CAB-CBB
33	k2	201	CYC	C4B-C3B-CAB-CBB
33	B2	301	CYC	C4B-C3B-CAB-CBB
33	c3	201	CYC	C4B-C3B-CAB-CBB
33	e3	201	CYC	C4B-C3B-CAB-CBB
33	i3	202	CYC	C4B-C3B-CAB-CBB
33	k3	201	CYC	C4B-C3B-CAB-CBB
33	B3	301	CYC	C4B-C3B-CAB-CBB
33	c5	201	CYC	C4B-C3B-CAB-CBB
33	e5	201	CYC	C4B-C3B-CAB-CBB
33	g5	202	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
33	i5	202	CYC	C4B-C3B-CAB-CBB
33	k5	201	CYC	C4B-C3B-CAB-CBB
33	c6	201	CYC	C4B-C3B-CAB-CBB
33	e6	201	CYC	C4B-C3B-CAB-CBB
33	i6	202	CYC	C4B-C3B-CAB-CBB
33	k6	201	CYC	C4B-C3B-CAB-CBB
33	B6	301	CYC	C4B-C3B-CAB-CBB
33	c7	201	CYC	C4B-C3B-CAB-CBB
33	e7	201	CYC	C4B-C3B-CAB-CBB
33	i7	202	CYC	C4B-C3B-CAB-CBB
33	k7	201	CYC	C4B-C3B-CAB-CBB
33	B7	301	CYC	C4B-C3B-CAB-CBB
33	c8	201	CYC	C4B-C3B-CAB-CBB
33	e8	201	CYC	C4B-C3B-CAB-CBB
33	g8	202	CYC	C4B-C3B-CAB-CBB
33	i8	202	CYC	C4B-C3B-CAB-CBB
33	k8	201	CYC	C4B-C3B-CAB-CBB
33	c9	201	CYC	C4B-C3B-CAB-CBB
33	e9	201	CYC	C4B-C3B-CAB-CBB
33	i9	202	CYC	C4B-C3B-CAB-CBB
33	k9	201	CYC	C4B-C3B-CAB-CBB
33	B9	301	CYC	C4B-C3B-CAB-CBB
33	cA	201	CYC	C4B-C3B-CAB-CBB
33	eA	201	CYC	C4B-C3B-CAB-CBB
33	iA	202	CYC	C4B-C3B-CAB-CBB
33	kA	201	CYC	C4B-C3B-CAB-CBB
33	cC	201	CYC	C4B-C3B-CAB-CBB
33	eC	201	CYC	C4B-C3B-CAB-CBB
33	iC	202	CYC	C4B-C3B-CAB-CBB
33	kC	201	CYC	C4B-C3B-CAB-CBB
33	cH	201	CYC	C4B-C3B-CAB-CBB
33	eH	201	CYC	C4B-C3B-CAB-CBB
33	gH	202	CYC	C4B-C3B-CAB-CBB
33	iH	202	CYC	C4B-C3B-CAB-CBB
33	kH	201	CYC	C4B-C3B-CAB-CBB
33	cI	201	CYC	C4B-C3B-CAB-CBB
33	eI	201	CYC	C4B-C3B-CAB-CBB
33	iI	202	CYC	C4B-C3B-CAB-CBB
33	kI	201	CYC	C4B-C3B-CAB-CBB
33	cJ	201	CYC	C4B-C3B-CAB-CBB
33	eJ	201	CYC	C4B-C3B-CAB-CBB
33	gJ	202	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
33	iJ	202	CYC	C4B-C3B-CAB-CBB
33	kJ	201	CYC	C4B-C3B-CAB-CBB
36	AD	405	CLA	C15-C16-C17-C18
36	BD	613	CLA	C15-C16-C17-C18
36	DD	406	CLA	C13-C15-C16-C17
36	AE	405	CLA	C15-C16-C17-C18
36	BE	613	CLA	C15-C16-C17-C18
36	DE	406	CLA	C13-C15-C16-C17
36	A1	405	CLA	C15-C16-C17-C18
36	B1	613	CLA	C15-C16-C17-C18
36	D1	405	CLA	C13-C15-C16-C17
36	b1	614	CLA	C15-C16-C17-C18
36	c1	502	CLA	C15-C16-C17-C18
36	c1	507	CLA	C13-C15-C16-C17
36	d1	406	CLA	C13-C15-C16-C17
36	bD	614	CLA	C15-C16-C17-C18
36	cD	503	CLA	C15-C16-C17-C18
36	cD	507	CLA	C13-C15-C16-C17
36	dD	406	CLA	C13-C15-C16-C17
36	bE	614	CLA	C15-C16-C17-C18
36	cE	503	CLA	C15-C16-C17-C18
36	cE	507	CLA	C13-C15-C16-C17
36	dE	406	CLA	C13-C15-C16-C17
38	h1	103	SQD	C23-C24-C25-C26
38	hD	103	SQD	C23-C24-C25-C26
38	hE	103	SQD	C23-C24-C25-C26
39	CD	519	LMG	C10-C11-C12-C13
39	CE	519	LMG	C10-C11-C12-C13
39	C1	519	LMG	C10-C11-C12-C13
42	DD	410	LHG	C23-C24-C25-C26
42	DE	410	LHG	C23-C24-C25-C26
42	D1	409	LHG	C23-C24-C25-C26
42	d1	410	LHG	C23-C24-C25-C26
42	dD	410	LHG	C23-C24-C25-C26
42	dE	410	LHG	C23-C24-C25-C26
44	JD	101	DGD	C1A-C2A-C3A-C4A
44	J1	101	DGD	C1A-C2A-C3A-C4A
44	c1	518	DGD	C1A-C2A-C3A-C4A
44	cD	518	DGD	C1A-C2A-C3A-C4A
44	cE	518	DGD	C1A-C2A-C3A-C4A
40	d1	413	LMT	O1'-C1-C2-C3
40	dD	413	LMT	O1'-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
40	dE	413	LMT	O1'-C1-C2-C3
36	BD	602	CLA	C15-C16-C17-C18
36	BD	605	CLA	C5-C6-C7-C8
36	HD	102	CLA	C8-C10-C11-C12
36	BE	602	CLA	C15-C16-C17-C18
36	BE	605	CLA	C5-C6-C7-C8
36	HE	102	CLA	C8-C10-C11-C12
36	B1	602	CLA	C15-C16-C17-C18
36	B1	605	CLA	C5-C6-C7-C8
36	H1	102	CLA	C8-C10-C11-C12
36	b1	604	CLA	C15-C16-C17-C18
36	b1	607	CLA	C5-C6-C7-C8
36	h1	102	CLA	C8-C10-C11-C12
36	bD	604	CLA	C15-C16-C17-C18
36	bD	607	CLA	C5-C6-C7-C8
36	hD	102	CLA	C8-C10-C11-C12
36	bE	604	CLA	C15-C16-C17-C18
36	bE	607	CLA	C5-C6-C7-C8
36	hE	102	CLA	C8-C10-C11-C12
36	BD	604	CLA	CBA-CGA-O2A-C1
36	BE	604	CLA	CBA-CGA-O2A-C1
36	B1	604	CLA	CBA-CGA-O2A-C1
36	b1	606	CLA	CBA-CGA-O2A-C1
36	b1	607	CLA	CBA-CGA-O2A-C1
36	bD	606	CLA	CBA-CGA-O2A-C1
36	bE	606	CLA	CBA-CGA-O2A-C1
36	bE	607	CLA	CBA-CGA-O2A-C1
33	BB	1003	CYC	C3A-C2A-CAA-CBA
44	CD	517	DGD	O1B-C1B-O2G-C2G
44	CE	517	DGD	O1B-C1B-O2G-C2G
44	C1	517	DGD	O1B-C1B-O2G-C2G
45	DD	403	PHO	C2-C1-O2A-CGA
45	DE	403	PHO	C2-C1-O2A-CGA
45	D1	402	PHO	C2-C1-O2A-CGA
36	DD	405	CLA	C10-C11-C12-C13
36	DE	405	CLA	C10-C11-C12-C13
36	D1	404	CLA	C10-C11-C12-C13
36	d1	405	CLA	C10-C11-C12-C13
36	dD	405	CLA	C10-C11-C12-C13
36	dE	405	CLA	C10-C11-C12-C13
38	CD	501	SQD	C7-C8-C9-C10
38	CE	501	SQD	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
38	C1	501	SQD	C7-C8-C9-C10
39	CD	502	LMG	C10-C11-C12-C13
39	CD	519	LMG	C28-C29-C30-C31
39	DD	411	LMG	C28-C29-C30-C31
39	CE	502	LMG	C10-C11-C12-C13
39	CE	519	LMG	C28-C29-C30-C31
39	DE	411	LMG	C28-C29-C30-C31
39	C1	502	LMG	C10-C11-C12-C13
39	C1	519	LMG	C28-C29-C30-C31
39	D1	410	LMG	C28-C29-C30-C31
39	d1	411	LMG	C28-C29-C30-C31
39	dD	411	LMG	C28-C29-C30-C31
39	dE	411	LMG	C28-C29-C30-C31
40	dD	412	LMT	O5'-C5'-C6'-O6'
40	dE	412	LMT	O5'-C5'-C6'-O6'
33	BB	1001	CYC	C2A-CAA-CBA-CGA
33	BB	1003	CYC	C2A-CAA-CBA-CGA
33	VG	201	CYC	C2A-CAA-CBA-CGA
33	VL	201	CYC	C2A-CAA-CBA-CGA
33	s4	201	CYC	C2A-CAA-CBA-CGA
33	w4	201	CYC	C2A-CAA-CBA-CGA
33	r4	201	CYC	C2A-CAA-CBA-CGA
33	B4	1001	CYC	C2A-CAA-CBA-CGA
33	B4	1003	CYC	C2A-CAA-CBA-CGA
33	sB	201	CYC	C2A-CAA-CBA-CGA
33	wB	201	CYC	C2A-CAA-CBA-CGA
33	rB	201	CYC	C2A-CAA-CBA-CGA
33	cF	201	CYC	NA-C4A-CHB-C1B
33	3F	101	CYC	C2A-CAA-CBA-CGA
33	mF	201	CYC	C2A-CAA-CBA-CGA
33	cK	201	CYC	NA-C4A-CHB-C1B
33	3K	101	CYC	C2A-CAA-CBA-CGA
33	mK	201	CYC	C2A-CAA-CBA-CGA
36	XD	101	CLA	C13-C15-C16-C17
36	XE	101	CLA	C13-C15-C16-C17
36	X1	101	CLA	C13-C15-C16-C17
36	h1	101	CLA	C13-C15-C16-C17
36	x1	101	CLA	C13-C15-C16-C17
36	hD	101	CLA	C13-C15-C16-C17
36	xD	101	CLA	C13-C15-C16-C17
36	hE	101	CLA	C13-C15-C16-C17
36	xE	101	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
40	DD	412	LMT	O5'-C5'-C6'-O6'
40	DE	412	LMT	O5'-C5'-C6'-O6'
40	D1	411	LMT	O5'-C5'-C6'-O6'
40	d1	412	LMT	O5'-C5'-C6'-O6'
36	BD	611	CLA	C6-C7-C8-C10
36	BD	614	CLA	C11-C12-C13-C15
36	BE	611	CLA	C6-C7-C8-C10
36	BE	614	CLA	C11-C12-C13-C15
36	B1	611	CLA	C6-C7-C8-C10
36	B1	614	CLA	C11-C12-C13-C15
36	a1	407	CLA	C6-C7-C8-C10
36	b1	612	CLA	C6-C7-C8-C10
36	b1	615	CLA	C11-C12-C13-C15
36	aD	406	CLA	C6-C7-C8-C10
36	bD	612	CLA	C6-C7-C8-C10
36	bD	615	CLA	C11-C12-C13-C15
36	aE	406	CLA	C6-C7-C8-C10
36	bE	612	CLA	C6-C7-C8-C10
36	bE	615	CLA	C11-C12-C13-C15
45	DD	401	PHO	C11-C10-C8-C7
45	DE	401	PHO	C12-C13-C15-C16
45	A1	412	PHO	C11-C10-C8-C7
45	d1	402	PHO	C11-C12-C13-C15
45	aD	412	PHO	C12-C13-C15-C16
45	aE	412	PHO	C11-C10-C8-C7
33	CB	1001	CYC	C2B-C3B-CAB-CBB
33	C4	1001	CYC	C2B-C3B-CAB-CBB
40	BD	623	LMT	O1'-C1-C2-C3
40	BE	623	LMT	O1'-C1-C2-C3
40	B1	623	LMT	O1'-C1-C2-C3
44	CD	518	DGD	C3B-C4B-C5B-C6B
44	CE	518	DGD	C3B-C4B-C5B-C6B
44	C1	518	DGD	C3B-C4B-C5B-C6B
33	BB	1001	CYC	C3A-C4A-CHB-C1B
33	b4	101	CYC	C3A-C4A-CHB-C1B
33	B4	1001	CYC	C3A-C4A-CHB-C1B
33	bB	101	CYC	C3A-C4A-CHB-C1B
36	BD	609	CLA	C13-C15-C16-C17
36	BD	610	CLA	C10-C11-C12-C13
36	CD	512	CLA	C13-C15-C16-C17
36	HD	101	CLA	C5-C6-C7-C8
36	HD	101	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
36	HD	101	CLA	C15-C16-C17-C18
36	BE	609	CLA	C13-C15-C16-C17
36	BE	610	CLA	C10-C11-C12-C13
36	CE	512	CLA	C13-C15-C16-C17
36	HE	101	CLA	C5-C6-C7-C8
36	HE	101	CLA	C13-C15-C16-C17
36	HE	101	CLA	C15-C16-C17-C18
36	B1	609	CLA	C13-C15-C16-C17
36	B1	610	CLA	C10-C11-C12-C13
36	C1	512	CLA	C13-C15-C16-C17
36	H1	101	CLA	C5-C6-C7-C8
36	H1	101	CLA	C13-C15-C16-C17
36	H1	101	CLA	C15-C16-C17-C18
36	b1	610	CLA	C13-C15-C16-C17
36	b1	611	CLA	C10-C11-C12-C13
36	h1	101	CLA	C5-C6-C7-C8
36	h1	101	CLA	C15-C16-C17-C18
36	bD	610	CLA	C13-C15-C16-C17
36	bD	611	CLA	C10-C11-C12-C13
36	hD	101	CLA	C5-C6-C7-C8
36	hD	101	CLA	C15-C16-C17-C18
36	bE	610	CLA	C13-C15-C16-C17
36	bE	611	CLA	C10-C11-C12-C13
36	hE	101	CLA	C5-C6-C7-C8
36	hE	101	CLA	C15-C16-C17-C18
45	DD	403	PHO	C5-C6-C7-C8
40	d1	404	LMT	O1'-C1-C2-C3
40	dD	404	LMT	O1'-C1-C2-C3
40	dE	404	LMT	O1'-C1-C2-C3
40	DD	404	LMT	O1'-C1-C2-C3
40	DE	404	LMT	O1'-C1-C2-C3
45	DD	403	PHO	O1A-CGA-O2A-C1
40	BD	623	LMT	O5'-C1'-O1'-C1
40	BE	623	LMT	O5'-C1'-O1'-C1
40	B1	623	LMT	O5'-C1'-O1'-C1
44	CD	517	DGD	O6E-C1E-O5D-C6D
44	CD	518	DGD	O6E-C1E-O5D-C6D
44	CE	517	DGD	O6E-C1E-O5D-C6D
44	CE	518	DGD	O6E-C1E-O5D-C6D
44	C1	517	DGD	O6E-C1E-O5D-C6D
44	C1	518	DGD	O6E-C1E-O5D-C6D
44	c1	516	DGD	O6E-C1E-O5D-C6D

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Mol	Chain	Res	Type	Atoms
44	cD	516	DGD	O6E-C1E-O5D-C6D
44	cE	516	DGD	O6E-C1E-O5D-C6D
36	BD	612	CLA	C10-C11-C12-C13
36	BE	612	CLA	C10-C11-C12-C13
36	B1	612	CLA	C10-C11-C12-C13
36	b1	613	CLA	C10-C11-C12-C13
36	c1	505	CLA	C13-C15-C16-C17
36	bD	613	CLA	C10-C11-C12-C13
36	cD	506	CLA	C13-C15-C16-C17
36	bE	613	CLA	C10-C11-C12-C13
36	cE	506	CLA	C13-C15-C16-C17
45	D1	402	PHO	C10-C11-C12-C13
37	AD	406	PL9	C24-C26-C27-C28
37	AE	406	PL9	C24-C26-C27-C28
37	A1	406	PL9	C24-C26-C27-C28
40	D1	403	LMT	O1'-C1-C2-C3
38	c1	501	SQD	C7-C8-C9-C10
38	cD	502	SQD	C7-C8-C9-C10
38	cE	502	SQD	C7-C8-C9-C10
40	A1	409	LMT	O1'-C1-C2-C3
36	BD	610	CLA	C5-C6-C7-C8
36	BD	610	CLA	C13-C15-C16-C17
36	CD	503	CLA	C5-C6-C7-C8
36	CD	505	CLA	C15-C16-C17-C18
36	CD	513	CLA	C15-C16-C17-C18
36	BE	610	CLA	C5-C6-C7-C8
36	BE	610	CLA	C13-C15-C16-C17
36	CE	503	CLA	C5-C6-C7-C8
36	CE	505	CLA	C15-C16-C17-C18
36	CE	513	CLA	C15-C16-C17-C18
36	B1	610	CLA	C5-C6-C7-C8
36	B1	610	CLA	C13-C15-C16-C17
36	C1	503	CLA	C5-C6-C7-C8
36	C1	505	CLA	C15-C16-C17-C18
36	C1	513	CLA	C15-C16-C17-C18
36	b1	611	CLA	C5-C6-C7-C8
36	b1	611	CLA	C13-C15-C16-C17
36	bD	611	CLA	C5-C6-C7-C8
36	bD	611	CLA	C13-C15-C16-C17
36	bE	611	CLA	C5-C6-C7-C8
36	bE	611	CLA	C13-C15-C16-C17
40	AD	409	LMT	O1'-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
40	AE	409	LMT	O1'-C1-C2-C3
40	b1	602	LMT	O1'-C1-C2-C3
40	bD	602	LMT	O1'-C1-C2-C3
40	bE	602	LMT	O1'-C1-C2-C3
40	bE	620	LMT	O1'-C1-C2-C3
36	B1	604	CLA	O1A-CGA-O2A-C1
36	a1	407	CLA	O1A-CGA-O2A-C1
36	aD	406	CLA	O1A-CGA-O2A-C1
36	aE	406	CLA	O1A-CGA-O2A-C1
45	DE	403	PHO	O1A-CGA-O2A-C1
45	D1	402	PHO	O1A-CGA-O2A-C1
40	b1	620	LMT	O1'-C1-C2-C3
40	bD	620	LMT	O1'-C1-C2-C3
36	BD	613	CLA	C13-C15-C16-C17
36	BD	614	CLA	C10-C11-C12-C13
36	ID	101	CLA	C8-C10-C11-C12
36	BE	613	CLA	C13-C15-C16-C17
36	BE	614	CLA	C10-C11-C12-C13
36	IE	101	CLA	C8-C10-C11-C12
36	B1	613	CLA	C13-C15-C16-C17
36	B1	614	CLA	C10-C11-C12-C13
36	I1	101	CLA	C8-C10-C11-C12
36	b1	614	CLA	C13-C15-C16-C17
36	b1	615	CLA	C10-C11-C12-C13
36	c1	510	CLA	C13-C15-C16-C17
36	aD	405	CLA	C15-C16-C17-C18
36	bD	614	CLA	C13-C15-C16-C17
36	bD	615	CLA	C10-C11-C12-C13
36	cD	510	CLA	C13-C15-C16-C17
36	aE	405	CLA	C15-C16-C17-C18
36	bE	614	CLA	C13-C15-C16-C17
36	bE	615	CLA	C10-C11-C12-C13
36	cE	510	CLA	C13-C15-C16-C17
45	d1	402	PHO	C10-C11-C12-C13
40	BD	619	LMT	O1'-C1-C2-C3
40	BE	619	LMT	O1'-C1-C2-C3
40	B1	619	LMT	O1'-C1-C2-C3
39	BD	618	LMG	O6-C5-C6-O5
39	BE	618	LMG	O6-C5-C6-O5
39	B1	618	LMG	O6-C5-C6-O5
39	b1	619	LMG	O6-C5-C6-O5
39	bD	619	LMG	O6-C5-C6-O5

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Mol	Chain	Res	Type	Atoms
39	bE	619	LMG	O6-C5-C6-O5
36	CD	506	CLA	O1D-CGD-O2D-CED
36	CE	506	CLA	O1D-CGD-O2D-CED
36	C1	506	CLA	O1D-CGD-O2D-CED
40	DD	413	LMT	C4'-C5'-C6'-O6'
40	DE	413	LMT	C4'-C5'-C6'-O6'
40	D1	412	LMT	C4'-C5'-C6'-O6'
33	B4	1003	CYC	C3A-C2A-CAA-CBA
36	BD	604	CLA	O1A-CGA-O2A-C1
36	BE	604	CLA	O1A-CGA-O2A-C1
36	b1	606	CLA	O1A-CGA-O2A-C1
36	bD	606	CLA	O1A-CGA-O2A-C1
36	bE	606	CLA	O1A-CGA-O2A-C1
36	a1	406	CLA	C15-C16-C17-C18
45	DE	403	PHO	C5-C6-C7-C8
45	D1	402	PHO	C5-C6-C7-C8
42	BD	620	LHG	C3-O3-P-O6
42	BD	620	LHG	C4-O6-P-O3
42	DD	409	LHG	C3-O3-P-O6
42	DD	409	LHG	C4-O6-P-O3
42	DD	410	LHG	C4-O6-P-O3
42	BE	620	LHG	C3-O3-P-O6
42	BE	620	LHG	C4-O6-P-O3
42	DE	409	LHG	C3-O3-P-O6
42	DE	409	LHG	C4-O6-P-O3
42	DE	410	LHG	C4-O6-P-O3
42	B1	621	LHG	C3-O3-P-O6
42	B1	621	LHG	C4-O6-P-O3
42	D1	408	LHG	C3-O3-P-O6
42	D1	408	LHG	C4-O6-P-O3
42	D1	409	LHG	C4-O6-P-O3
42	d1	409	LHG	C3-O3-P-O6
42	d1	409	LHG	C4-O6-P-O3
42	d1	410	LHG	C4-O6-P-O3
42	e1	101	LHG	C3-O3-P-O6
42	e1	101	LHG	C4-O6-P-O3
42	l1	101	LHG	C3-O3-P-O6
42	l1	101	LHG	C4-O6-P-O3
42	dD	409	LHG	C3-O3-P-O6
42	dD	409	LHG	C4-O6-P-O3
42	dD	410	LHG	C4-O6-P-O3
42	eD	101	LHG	C3-O3-P-O6

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Mol	Chain	Res	Type	Atoms
42	eD	101	LHG	C4-O6-P-O3
42	lD	101	LHG	C3-O3-P-O6
42	lD	101	LHG	C4-O6-P-O3
42	dE	409	LHG	C3-O3-P-O6
42	dE	409	LHG	C4-O6-P-O3
42	dE	410	LHG	C4-O6-P-O3
42	eE	101	LHG	C3-O3-P-O6
42	eE	101	LHG	C4-O6-P-O3
42	lE	101	LHG	C3-O3-P-O6
42	lE	101	LHG	C4-O6-P-O3
36	c1	514	CLA	C3-C5-C6-C7
36	cD	514	CLA	C3-C5-C6-C7
36	cE	514	CLA	C3-C5-C6-C7
36	CD	503	CLA	CBA-CGA-O2A-C1
36	CE	503	CLA	CBA-CGA-O2A-C1
36	C1	503	CLA	CBA-CGA-O2A-C1
36	c1	503	CLA	CBA-CGA-O2A-C1
36	c1	513	CLA	CBA-CGA-O2A-C1
36	cD	504	CLA	CBA-CGA-O2A-C1
36	cD	513	CLA	CBA-CGA-O2A-C1
36	cE	504	CLA	CBA-CGA-O2A-C1
36	cE	513	CLA	CBA-CGA-O2A-C1
36	BD	612	CLA	C15-C16-C17-C18
36	BE	612	CLA	C15-C16-C17-C18
36	B1	612	CLA	C15-C16-C17-C18
36	b1	613	CLA	C15-C16-C17-C18
36	c1	504	CLA	C15-C16-C17-C18
36	bD	613	CLA	C15-C16-C17-C18
36	cD	505	CLA	C15-C16-C17-C18
36	bE	613	CLA	C15-C16-C17-C18
36	cE	505	CLA	C15-C16-C17-C18
45	DE	403	PHO	C10-C11-C12-C13
36	ID	101	CLA	C2-C3-C5-C6
36	IE	101	CLA	C2-C3-C5-C6
36	I1	101	CLA	C2-C3-C5-C6
36	CD	503	CLA	C2A-CAA-CBA-CGA
36	CE	503	CLA	C2A-CAA-CBA-CGA
36	C1	503	CLA	C2A-CAA-CBA-CGA
45	d1	402	PHO	C2A-CAA-CBA-CGA
39	CD	502	LMG	C29-C28-O8-C9
39	CE	502	LMG	C29-C28-O8-C9
39	C1	502	LMG	C29-C28-O8-C9

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Mol	Chain	Res	Type	Atoms
44	CD	517	DGD	O6D-C5D-C6D-O5D
44	CE	517	DGD	O6D-C5D-C6D-O5D
44	C1	517	DGD	O6D-C5D-C6D-O5D
44	c1	516	DGD	O6D-C5D-C6D-O5D
44	cD	516	DGD	O6D-C5D-C6D-O5D
44	cE	516	DGD	O6D-C5D-C6D-O5D
36	BD	605	CLA	O1D-CGD-O2D-CED
36	BE	605	CLA	O1D-CGD-O2D-CED
36	b1	607	CLA	O1D-CGD-O2D-CED
43	c1	515	BCR	C19-C20-C21-C22
43	cD	515	BCR	C19-C20-C21-C22
43	cE	515	BCR	C19-C20-C21-C22
44	c1	516	DGD	C1A-C2A-C3A-C4A
44	cD	516	DGD	C1A-C2A-C3A-C4A
44	cE	516	DGD	C1A-C2A-C3A-C4A
39	CD	502	LMG	C18-C19-C20-C21
39	CE	502	LMG	C18-C19-C20-C21
39	C1	502	LMG	C18-C19-C20-C21
36	B1	605	CLA	O1D-CGD-O2D-CED
38	AD	407	SQD	C8-C7-O47-C45
38	AE	407	SQD	C8-C7-O47-C45
38	A1	407	SQD	C8-C7-O47-C45
39	a1	410	LMG	C11-C10-O7-C8
39	aD	409	LMG	C11-C10-O7-C8
39	aE	409	LMG	C11-C10-O7-C8
44	c1	517	DGD	C2B-C1B-O2G-C2G
44	cD	517	DGD	C2B-C1B-O2G-C2G
44	cE	517	DGD	C2B-C1B-O2G-C2G
40	DD	413	LMT	O5'-C5'-C6'-O6'
40	DE	413	LMT	O5'-C5'-C6'-O6'
40	D1	412	LMT	O5'-C5'-C6'-O6'
36	CD	513	CLA	C3-C5-C6-C7
36	CE	513	CLA	C3-C5-C6-C7
36	C1	513	CLA	C3-C5-C6-C7
36	c1	512	CLA	C3-C5-C6-C7
36	cD	512	CLA	C3-C5-C6-C7
36	cE	512	CLA	C3-C5-C6-C7
39	a1	410	LMG	C11-C12-C13-C14
39	aD	409	LMG	C11-C12-C13-C14
40	DD	404	LMT	C6-C7-C8-C9
40	DD	412	LMT	O1'-C1-C2-C3
40	DE	404	LMT	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
40	DE	412	LMT	O1'-C1-C2-C3
40	D1	403	LMT	C6-C7-C8-C9
40	D1	411	LMT	O1'-C1-C2-C3
40	d1	404	LMT	C6-C7-C8-C9
40	d1	412	LMT	O1'-C1-C2-C3
40	dD	404	LMT	C6-C7-C8-C9
40	dD	412	LMT	O1'-C1-C2-C3
40	dE	404	LMT	C6-C7-C8-C9
40	dE	412	LMT	O1'-C1-C2-C3
44	c1	517	DGD	C2A-C3A-C4A-C5A
44	c1	518	DGD	C2B-C3B-C4B-C5B
44	cD	517	DGD	C2A-C3A-C4A-C5A
44	cD	518	DGD	C2B-C3B-C4B-C5B
44	cE	517	DGD	C2A-C3A-C4A-C5A
44	cE	518	DGD	C2B-C3B-C4B-C5B
36	bE	607	CLA	O1A-CGA-O2A-C1
36	bD	607	CLA	O1D-CGD-O2D-CED
36	bE	607	CLA	O1D-CGD-O2D-CED
36	BD	612	CLA	C16-C17-C18-C20
36	CD	507	CLA	C6-C7-C8-C10
36	CD	511	CLA	C16-C17-C18-C19
36	HD	102	CLA	C11-C12-C13-C15
36	BE	612	CLA	C16-C17-C18-C20
36	CE	507	CLA	C6-C7-C8-C10
36	CE	511	CLA	C16-C17-C18-C19
36	HE	102	CLA	C11-C12-C13-C15
36	B1	612	CLA	C16-C17-C18-C20
36	C1	507	CLA	C6-C7-C8-C10
36	C1	511	CLA	C16-C17-C18-C19
36	H1	102	CLA	C11-C12-C13-C15
36	b1	613	CLA	C16-C17-C18-C20
36	c1	514	CLA	C16-C17-C18-C20
36	h1	102	CLA	C11-C12-C13-C15
36	bD	613	CLA	C16-C17-C18-C20
36	cD	514	CLA	C16-C17-C18-C20
36	hD	102	CLA	C11-C12-C13-C15
36	bE	613	CLA	C16-C17-C18-C20
36	cE	514	CLA	C16-C17-C18-C20
36	hE	102	CLA	C11-C12-C13-C15
44	c1	516	DGD	C4D-C5D-C6D-O5D
44	cD	516	DGD	C4D-C5D-C6D-O5D
44	cE	516	DGD	C4D-C5D-C6D-O5D

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Mol	Chain	Res	Type	Atoms
38	c1	501	SQD	C17-C18-C19-C20
38	cD	502	SQD	C17-C18-C19-C20
38	cE	502	SQD	C17-C18-C19-C20
39	aE	409	LMG	C11-C12-C13-C14
40	AD	412	LMT	C6-C7-C8-C9
40	AE	412	LMT	C6-C7-C8-C9
40	A1	413	LMT	C6-C7-C8-C9
44	CD	518	DGD	C2A-C3A-C4A-C5A
44	CE	518	DGD	C2A-C3A-C4A-C5A
44	C1	518	DGD	C2A-C3A-C4A-C5A
39	a1	410	LMG	O9-C10-O7-C8
39	aD	409	LMG	O9-C10-O7-C8
39	aE	409	LMG	O9-C10-O7-C8
44	c1	516	DGD	O1B-C1B-O2G-C2G
44	c1	517	DGD	O1B-C1B-O2G-C2G
44	cD	516	DGD	O1B-C1B-O2G-C2G
44	cD	517	DGD	O1B-C1B-O2G-C2G
44	cE	516	DGD	O1B-C1B-O2G-C2G
44	cE	517	DGD	O1B-C1B-O2G-C2G
40	BD	619	LMT	C7-C8-C9-C10
40	BE	619	LMT	C7-C8-C9-C10
40	B1	619	LMT	C7-C8-C9-C10
40	b1	620	LMT	C7-C8-C9-C10
40	bD	620	LMT	C7-C8-C9-C10
40	bE	620	LMT	C7-C8-C9-C10
44	hE	104	DGD	C5B-C6B-C7B-C8B
36	BE	605	CLA	O1A-CGA-O2A-C1
36	b1	607	CLA	O1A-CGA-O2A-C1
36	bD	607	CLA	O1A-CGA-O2A-C1
38	AD	407	SQD	C11-C10-C9-C8
38	AE	407	SQD	C11-C10-C9-C8
38	A1	407	SQD	C11-C10-C9-C8
42	e1	101	LHG	C11-C12-C13-C14
42	eD	101	LHG	C11-C12-C13-C14
42	eE	101	LHG	C11-C12-C13-C14
44	JD	101	DGD	C2B-C3B-C4B-C5B
44	JE	101	DGD	C2B-C3B-C4B-C5B
44	J1	101	DGD	C2B-C3B-C4B-C5B
44	h1	104	DGD	C5B-C6B-C7B-C8B
44	hD	104	DGD	C5B-C6B-C7B-C8B
36	c1	511	CLA	O1D-CGD-O2D-CED
36	cD	511	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
36	cE	511	CLA	O1D-CGD-O2D-CED
36	a1	406	CLA	C13-C15-C16-C17
36	aE	405	CLA	C13-C15-C16-C17
33	BB	1001	CYC	NA-C4A-CHB-C1B
33	BB	1002	CYC	NA-C4A-CHB-C1B
33	BB	1003	CYC	NA-C4A-CHB-C1B
33	BB	1004	CYC	C2A-CAA-CBA-CGA
33	CB	1003	CYC	NA-C4A-CHB-C1B
33	PB	201	CYC	NA-C4A-CHB-C1B
33	RB	201	CYC	NA-C4A-CHB-C1B
33	TB	201	CYC	NA-C4A-CHB-C1B
33	IF	201	CYC	NA-C4A-CHB-C1B
33	KF	201	CYC	NA-C4A-CHB-C1B
33	NF	101	CYC	NA-C4A-CHB-C1B
33	MG	201	CYC	NA-C4A-CHB-C1B
33	NG	201	CYC	NA-C4A-CHB-C1B
33	OG	201	CYC	NA-C4A-CHB-C1B
33	WG	201	CYC	NA-C4A-CHB-C1B
33	IK	201	CYC	NA-C4A-CHB-C1B
33	KK	201	CYC	NA-C4A-CHB-C1B
33	NK	101	CYC	NA-C4A-CHB-C1B
33	ML	201	CYC	NA-C4A-CHB-C1B
33	NL	201	CYC	NA-C4A-CHB-C1B
33	OL	201	CYC	NA-C4A-CHB-C1B
33	WL	201	CYC	NA-C4A-CHB-C1B
33	b2	201	CYC	C2A-CAA-CBA-CGA
33	c2	202	CYC	NA-C4A-CHB-C1B
33	d2	201	CYC	C2A-CAA-CBA-CGA
33	e2	202	CYC	NA-C4A-CHB-C1B
33	f2	201	CYC	C2A-CAA-CBA-CGA
33	g2	201	CYC	NA-C4A-CHB-C1B
33	h2	201	CYC	C2A-CAA-CBA-CGA
33	i2	201	CYC	NA-C4A-CHB-C1B
33	j2	201	CYC	C2A-CAA-CBA-CGA
33	j2	202	CYC	NA-C4A-CHB-C1B
33	l2	201	CYC	C2A-CAA-CBA-CGA
33	m2	201	CYC	NA-C4A-CHB-C1B
33	b3	201	CYC	C2A-CAA-CBA-CGA
33	c3	202	CYC	NA-C4A-CHB-C1B
33	d3	201	CYC	C2A-CAA-CBA-CGA
33	e3	202	CYC	NA-C4A-CHB-C1B
33	f3	201	CYC	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
33	g3	201	CYC	NA-C4A-CHB-C1B
33	h3	201	CYC	C2A-CAA-CBA-CGA
33	i3	201	CYC	NA-C4A-CHB-C1B
33	j3	201	CYC	C2A-CAA-CBA-CGA
33	j3	202	CYC	NA-C4A-CHB-C1B
33	l3	201	CYC	C2A-CAA-CBA-CGA
33	m3	201	CYC	NA-C4A-CHB-C1B
33	b4	101	CYC	NA-C4A-CHB-C1B
33	T4	201	CYC	NA-C4A-CHB-C1B
33	r4	201	CYC	NA-C4A-CHB-C1B
33	B4	1001	CYC	NA-C4A-CHB-C1B
33	B4	1002	CYC	NA-C4A-CHB-C1B
33	B4	1003	CYC	NA-C4A-CHB-C1B
33	B4	1004	CYC	C2A-CAA-CBA-CGA
33	C4	1003	CYC	NA-C4A-CHB-C1B
33	P4	201	CYC	NA-C4A-CHB-C1B
33	R4	201	CYC	NA-C4A-CHB-C1B
33	b5	201	CYC	C2A-CAA-CBA-CGA
33	c5	202	CYC	NA-C4A-CHB-C1B
33	d5	201	CYC	C2A-CAA-CBA-CGA
33	e5	202	CYC	NA-C4A-CHB-C1B
33	f5	201	CYC	C2A-CAA-CBA-CGA
33	g5	201	CYC	NA-C4A-CHB-C1B
33	h5	201	CYC	C2A-CAA-CBA-CGA
33	i5	201	CYC	NA-C4A-CHB-C1B
33	j5	201	CYC	C2A-CAA-CBA-CGA
33	j5	202	CYC	NA-C4A-CHB-C1B
33	l5	201	CYC	C2A-CAA-CBA-CGA
33	m5	201	CYC	NA-C4A-CHB-C1B
33	b6	201	CYC	C2A-CAA-CBA-CGA
33	c6	202	CYC	NA-C4A-CHB-C1B
33	d6	201	CYC	C2A-CAA-CBA-CGA
33	e6	202	CYC	NA-C4A-CHB-C1B
33	f6	201	CYC	C2A-CAA-CBA-CGA
33	g6	201	CYC	NA-C4A-CHB-C1B
33	h6	201	CYC	C2A-CAA-CBA-CGA
33	i6	201	CYC	NA-C4A-CHB-C1B
33	j6	201	CYC	C2A-CAA-CBA-CGA
33	j6	202	CYC	NA-C4A-CHB-C1B
33	l6	201	CYC	C2A-CAA-CBA-CGA
33	m6	201	CYC	NA-C4A-CHB-C1B
33	b7	201	CYC	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
33	c7	202	CYC	NA-C4A-CHB-C1B
33	d7	201	CYC	C2A-CAA-CBA-CGA
33	e7	202	CYC	NA-C4A-CHB-C1B
33	f7	201	CYC	C2A-CAA-CBA-CGA
33	g7	201	CYC	NA-C4A-CHB-C1B
33	h7	201	CYC	C2A-CAA-CBA-CGA
33	i7	201	CYC	NA-C4A-CHB-C1B
33	j7	201	CYC	C2A-CAA-CBA-CGA
33	j7	202	CYC	NA-C4A-CHB-C1B
33	l7	201	CYC	C2A-CAA-CBA-CGA
33	m7	201	CYC	NA-C4A-CHB-C1B
33	b8	201	CYC	C2A-CAA-CBA-CGA
33	c8	202	CYC	NA-C4A-CHB-C1B
33	d8	201	CYC	C2A-CAA-CBA-CGA
33	e8	202	CYC	NA-C4A-CHB-C1B
33	f8	201	CYC	C2A-CAA-CBA-CGA
33	g8	201	CYC	NA-C4A-CHB-C1B
33	h8	201	CYC	C2A-CAA-CBA-CGA
33	i8	201	CYC	NA-C4A-CHB-C1B
33	j8	201	CYC	C2A-CAA-CBA-CGA
33	j8	202	CYC	NA-C4A-CHB-C1B
33	l8	201	CYC	C2A-CAA-CBA-CGA
33	m8	201	CYC	NA-C4A-CHB-C1B
33	b9	201	CYC	C2A-CAA-CBA-CGA
33	c9	202	CYC	NA-C4A-CHB-C1B
33	d9	201	CYC	C2A-CAA-CBA-CGA
33	e9	202	CYC	NA-C4A-CHB-C1B
33	f9	201	CYC	C2A-CAA-CBA-CGA
33	g9	201	CYC	NA-C4A-CHB-C1B
33	h9	201	CYC	C2A-CAA-CBA-CGA
33	i9	201	CYC	NA-C4A-CHB-C1B
33	j9	201	CYC	C2A-CAA-CBA-CGA
33	j9	202	CYC	NA-C4A-CHB-C1B
33	l9	201	CYC	C2A-CAA-CBA-CGA
33	m9	201	CYC	NA-C4A-CHB-C1B
33	bA	201	CYC	C2A-CAA-CBA-CGA
33	cA	202	CYC	NA-C4A-CHB-C1B
33	dA	201	CYC	C2A-CAA-CBA-CGA
33	eA	202	CYC	NA-C4A-CHB-C1B
33	fA	201	CYC	C2A-CAA-CBA-CGA
33	gA	201	CYC	NA-C4A-CHB-C1B
33	hA	201	CYC	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
33	iA	201	CYC	NA-C4A-CHB-C1B
33	jA	201	CYC	C2A-CAA-CBA-CGA
33	jA	202	CYC	NA-C4A-CHB-C1B
33	lA	201	CYC	C2A-CAA-CBA-CGA
33	mA	201	CYC	NA-C4A-CHB-C1B
33	bB	101	CYC	NA-C4A-CHB-C1B
33	rB	201	CYC	NA-C4A-CHB-C1B
33	bC	201	CYC	C2A-CAA-CBA-CGA
33	cC	202	CYC	NA-C4A-CHB-C1B
33	dC	201	CYC	C2A-CAA-CBA-CGA
33	eC	202	CYC	NA-C4A-CHB-C1B
33	fC	201	CYC	C2A-CAA-CBA-CGA
33	gC	201	CYC	NA-C4A-CHB-C1B
33	hC	201	CYC	C2A-CAA-CBA-CGA
33	iC	201	CYC	NA-C4A-CHB-C1B
33	jC	201	CYC	C2A-CAA-CBA-CGA
33	jC	202	CYC	NA-C4A-CHB-C1B
33	lC	201	CYC	C2A-CAA-CBA-CGA
33	mC	201	CYC	NA-C4A-CHB-C1B
33	bF	201	CYC	NA-C4A-CHB-C1B
33	eF	201	CYC	NA-C4A-CHB-C1B
33	3F	101	CYC	NA-C4A-CHB-C1B
33	2G	101	CYC	NA-C4A-CHB-C1B
33	1G	201	CYC	NA-C4A-CHB-C1B
33	4G	201	CYC	NA-C4A-CHB-C1B
33	5G	201	CYC	NA-C4A-CHB-C1B
33	bH	201	CYC	C2A-CAA-CBA-CGA
33	cH	202	CYC	NA-C4A-CHB-C1B
33	dH	201	CYC	C2A-CAA-CBA-CGA
33	eH	202	CYC	NA-C4A-CHB-C1B
33	fH	201	CYC	C2A-CAA-CBA-CGA
33	gH	201	CYC	NA-C4A-CHB-C1B
33	hH	201	CYC	C2A-CAA-CBA-CGA
33	iH	201	CYC	NA-C4A-CHB-C1B
33	jH	201	CYC	C2A-CAA-CBA-CGA
33	jH	202	CYC	NA-C4A-CHB-C1B
33	lH	201	CYC	C2A-CAA-CBA-CGA
33	mH	201	CYC	NA-C4A-CHB-C1B
33	bI	201	CYC	C2A-CAA-CBA-CGA
33	cI	202	CYC	NA-C4A-CHB-C1B
33	dI	201	CYC	C2A-CAA-CBA-CGA
33	eI	202	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	fI	201	CYC	C2A-CAA-CBA-CGA
33	gI	201	CYC	NA-C4A-CHB-C1B
33	hI	201	CYC	C2A-CAA-CBA-CGA
33	iI	201	CYC	NA-C4A-CHB-C1B
33	jI	201	CYC	C2A-CAA-CBA-CGA
33	jI	202	CYC	NA-C4A-CHB-C1B
33	lI	201	CYC	C2A-CAA-CBA-CGA
33	mI	201	CYC	NA-C4A-CHB-C1B
33	bJ	201	CYC	C2A-CAA-CBA-CGA
33	cJ	202	CYC	NA-C4A-CHB-C1B
33	dJ	201	CYC	C2A-CAA-CBA-CGA
33	eJ	202	CYC	NA-C4A-CHB-C1B
33	fJ	201	CYC	C2A-CAA-CBA-CGA
33	gJ	201	CYC	NA-C4A-CHB-C1B
33	hJ	201	CYC	C2A-CAA-CBA-CGA
33	iJ	201	CYC	NA-C4A-CHB-C1B
33	jJ	201	CYC	C2A-CAA-CBA-CGA
33	jJ	202	CYC	NA-C4A-CHB-C1B
33	lJ	201	CYC	C2A-CAA-CBA-CGA
33	mJ	201	CYC	NA-C4A-CHB-C1B
33	bK	201	CYC	NA-C4A-CHB-C1B
33	eK	201	CYC	NA-C4A-CHB-C1B
33	3K	101	CYC	NA-C4A-CHB-C1B
33	2L	101	CYC	NA-C4A-CHB-C1B
33	1L	201	CYC	NA-C4A-CHB-C1B
33	4L	201	CYC	NA-C4A-CHB-C1B
33	5L	201	CYC	NA-C4A-CHB-C1B
39	AD	408	LMG	C29-C30-C31-C32
39	AE	408	LMG	C29-C30-C31-C32
44	HD	103	DGD	C9A-CAA-CBA-CCA
44	HE	103	DGD	C9A-CAA-CBA-CCA
44	H1	103	DGD	C9A-CAA-CBA-CCA
36	CD	514	CLA	O1D-CGD-O2D-CED
36	CE	514	CLA	O1D-CGD-O2D-CED
36	C1	514	CLA	O1D-CGD-O2D-CED
39	j1	102	LMG	C2-C1-O1-C7
39	jD	102	LMG	C2-C1-O1-C7
39	jE	102	LMG	C2-C1-O1-C7
40	AD	409	LMT	C2'-C1'-O1'-C1
40	BD	623	LMT	C2'-C1'-O1'-C1
40	AE	409	LMT	C2'-C1'-O1'-C1
40	BE	623	LMT	C2'-C1'-O1'-C1

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Mol	Chain	Res	Type	Atoms
40	A1	409	LMT	C2'-C1'-O1'-C1
40	B1	623	LMT	C2'-C1'-O1'-C1
44	CD	517	DGD	C2E-C1E-O5D-C6D
44	CD	518	DGD	C2E-C1E-O5D-C6D
44	CE	517	DGD	C2E-C1E-O5D-C6D
44	CE	518	DGD	C2E-C1E-O5D-C6D
44	C1	517	DGD	C2E-C1E-O5D-C6D
44	C1	518	DGD	C2E-C1E-O5D-C6D
44	c1	516	DGD	C2E-C1E-O5D-C6D
44	c1	517	DGD	C2E-C1E-O5D-C6D
44	cD	516	DGD	C2E-C1E-O5D-C6D
44	cD	517	DGD	C2E-C1E-O5D-C6D
44	cE	516	DGD	C2E-C1E-O5D-C6D
44	cE	517	DGD	C2E-C1E-O5D-C6D
38	AD	407	SQD	O47-C45-C46-O48
38	AE	407	SQD	O47-C45-C46-O48
38	A1	407	SQD	O47-C45-C46-O48
39	A1	408	LMG	C29-C30-C31-C32
39	a1	408	LMG	C31-C32-C33-C34
39	aD	407	LMG	C31-C32-C33-C34
39	aE	407	LMG	C31-C32-C33-C34
36	aD	405	CLA	C13-C15-C16-C17
36	BD	605	CLA	O1A-CGA-O2A-C1
36	CD	503	CLA	O1A-CGA-O2A-C1
36	CE	503	CLA	O1A-CGA-O2A-C1
36	B1	605	CLA	O1A-CGA-O2A-C1
36	C1	503	CLA	O1A-CGA-O2A-C1
36	CD	512	CLA	C4-C3-C5-C6
36	CE	512	CLA	C4-C3-C5-C6
36	C1	512	CLA	C4-C3-C5-C6
42	e1	101	LHG	C24-C25-C26-C27
42	eD	101	LHG	C24-C25-C26-C27
42	eE	101	LHG	C24-C25-C26-C27
44	CD	518	DGD	C4A-C5A-C6A-C7A
44	CE	518	DGD	C4A-C5A-C6A-C7A
44	C1	518	DGD	C4A-C5A-C6A-C7A
36	AD	405	CLA	C6-C7-C8-C9
36	HD	102	CLA	C11-C10-C8-C9
36	AE	405	CLA	C6-C7-C8-C9
36	HE	102	CLA	C11-C10-C8-C9
36	A1	405	CLA	C6-C7-C8-C9
36	H1	102	CLA	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
36	h1	102	CLA	C11-C10-C8-C9
36	hD	102	CLA	C11-C10-C8-C9
36	hE	102	CLA	C11-C10-C8-C9
45	aE	412	PHO	C11-C10-C8-C9
36	c1	505	CLA	O1D-CGD-O2D-CED
36	cD	506	CLA	O1D-CGD-O2D-CED
36	cE	506	CLA	O1D-CGD-O2D-CED
39	AD	408	LMG	C31-C32-C33-C34
39	AE	408	LMG	C31-C32-C33-C34
39	A1	408	LMG	C31-C32-C33-C34
40	DD	412	LMT	C5-C6-C7-C8
40	DD	413	LMT	C3-C4-C5-C6
40	DE	412	LMT	C5-C6-C7-C8
40	DE	413	LMT	C3-C4-C5-C6
40	D1	411	LMT	C5-C6-C7-C8
40	D1	412	LMT	C3-C4-C5-C6
40	d1	412	LMT	C5-C6-C7-C8
40	dE	412	LMT	C5-C6-C7-C8
44	CD	518	DGD	C2B-C3B-C4B-C5B
44	CE	518	DGD	C2B-C3B-C4B-C5B
44	C1	518	DGD	C2B-C3B-C4B-C5B
44	c1	517	DGD	C3A-C4A-C5A-C6A
44	cD	517	DGD	C3A-C4A-C5A-C6A
44	cE	517	DGD	C3A-C4A-C5A-C6A
45	A1	412	PHO	C13-C15-C16-C17
36	CD	506	CLA	C2A-CAA-CBA-CGA
36	CE	506	CLA	C2A-CAA-CBA-CGA
36	C1	506	CLA	C2A-CAA-CBA-CGA
36	a1	406	CLA	C2A-CAA-CBA-CGA
36	aD	405	CLA	C2A-CAA-CBA-CGA
36	aE	405	CLA	C2A-CAA-CBA-CGA
45	DD	403	PHO	C2A-CAA-CBA-CGA
33	BB	1002	CYC	C3A-C4A-CHB-C1B
33	BB	1003	CYC	C3A-C4A-CHB-C1B
33	CB	1003	CYC	C3A-C4A-CHB-C1B
33	PB	201	CYC	C3A-C4A-CHB-C1B
33	RB	201	CYC	C3A-C4A-CHB-C1B
33	TB	201	CYC	C3A-C4A-CHB-C1B
33	IF	201	CYC	C3A-C4A-CHB-C1B
33	KF	201	CYC	C3A-C4A-CHB-C1B
33	NF	101	CYC	C3A-C4A-CHB-C1B
33	MG	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	NG	201	CYC	C3A-C4A-CHB-C1B
33	IK	201	CYC	C3A-C4A-CHB-C1B
33	KK	201	CYC	C3A-C4A-CHB-C1B
33	NK	101	CYC	C3A-C4A-CHB-C1B
33	ML	201	CYC	C3A-C4A-CHB-C1B
33	NL	201	CYC	C3A-C4A-CHB-C1B
33	c2	202	CYC	C3A-C4A-CHB-C1B
33	e2	202	CYC	C3A-C4A-CHB-C1B
33	g2	201	CYC	C3A-C4A-CHB-C1B
33	i2	201	CYC	C3A-C4A-CHB-C1B
33	j2	202	CYC	C3A-C4A-CHB-C1B
33	m2	201	CYC	C3A-C4A-CHB-C1B
33	c3	202	CYC	C3A-C4A-CHB-C1B
33	e3	202	CYC	C3A-C4A-CHB-C1B
33	g3	201	CYC	C3A-C4A-CHB-C1B
33	i3	201	CYC	C3A-C4A-CHB-C1B
33	j3	202	CYC	C3A-C4A-CHB-C1B
33	m3	201	CYC	C3A-C4A-CHB-C1B
33	T4	201	CYC	C3A-C4A-CHB-C1B
33	r4	201	CYC	C3A-C4A-CHB-C1B
33	B4	1002	CYC	C3A-C4A-CHB-C1B
33	B4	1003	CYC	C3A-C4A-CHB-C1B
33	C4	1003	CYC	C3A-C4A-CHB-C1B
33	P4	201	CYC	C3A-C4A-CHB-C1B
33	R4	201	CYC	C3A-C4A-CHB-C1B
33	c5	202	CYC	C3A-C4A-CHB-C1B
33	e5	202	CYC	C3A-C4A-CHB-C1B
33	g5	201	CYC	C3A-C4A-CHB-C1B
33	i5	201	CYC	C3A-C4A-CHB-C1B
33	j5	202	CYC	C3A-C4A-CHB-C1B
33	m5	201	CYC	C3A-C4A-CHB-C1B
33	c6	202	CYC	C3A-C4A-CHB-C1B
33	e6	202	CYC	C3A-C4A-CHB-C1B
33	g6	201	CYC	C3A-C4A-CHB-C1B
33	i6	201	CYC	C3A-C4A-CHB-C1B
33	j6	202	CYC	C3A-C4A-CHB-C1B
33	m6	201	CYC	C3A-C4A-CHB-C1B
33	c7	202	CYC	C3A-C4A-CHB-C1B
33	e7	202	CYC	C3A-C4A-CHB-C1B
33	g7	201	CYC	C3A-C4A-CHB-C1B
33	i7	201	CYC	C3A-C4A-CHB-C1B
33	j7	202	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	m7	201	CYC	C3A-C4A-CHB-C1B
33	c8	202	CYC	C3A-C4A-CHB-C1B
33	e8	202	CYC	C3A-C4A-CHB-C1B
33	g8	201	CYC	C3A-C4A-CHB-C1B
33	i8	201	CYC	C3A-C4A-CHB-C1B
33	j8	202	CYC	C3A-C4A-CHB-C1B
33	m8	201	CYC	C3A-C4A-CHB-C1B
33	c9	202	CYC	C3A-C4A-CHB-C1B
33	e9	202	CYC	C3A-C4A-CHB-C1B
33	g9	201	CYC	C3A-C4A-CHB-C1B
33	i9	201	CYC	C3A-C4A-CHB-C1B
33	j9	202	CYC	C3A-C4A-CHB-C1B
33	m9	201	CYC	C3A-C4A-CHB-C1B
33	cA	202	CYC	C3A-C4A-CHB-C1B
33	eA	202	CYC	C3A-C4A-CHB-C1B
33	gA	201	CYC	C3A-C4A-CHB-C1B
33	iA	201	CYC	C3A-C4A-CHB-C1B
33	jA	202	CYC	C3A-C4A-CHB-C1B
33	mA	201	CYC	C3A-C4A-CHB-C1B
33	rB	201	CYC	C3A-C4A-CHB-C1B
33	cC	202	CYC	C3A-C4A-CHB-C1B
33	eC	202	CYC	C3A-C4A-CHB-C1B
33	gC	201	CYC	C3A-C4A-CHB-C1B
33	iC	201	CYC	C3A-C4A-CHB-C1B
33	jC	202	CYC	C3A-C4A-CHB-C1B
33	mC	201	CYC	C3A-C4A-CHB-C1B
33	bF	201	CYC	C3A-C4A-CHB-C1B
33	3F	101	CYC	C3A-C4A-CHB-C1B
33	2G	101	CYC	C3A-C4A-CHB-C1B
33	1G	201	CYC	C3A-C4A-CHB-C1B
33	4G	201	CYC	C3A-C4A-CHB-C1B
33	5G	201	CYC	C3A-C4A-CHB-C1B
33	7G	201	CYC	C3A-C4A-CHB-C1B
33	cH	202	CYC	C3A-C4A-CHB-C1B
33	eH	202	CYC	C3A-C4A-CHB-C1B
33	gH	201	CYC	C3A-C4A-CHB-C1B
33	iH	201	CYC	C3A-C4A-CHB-C1B
33	jH	202	CYC	C3A-C4A-CHB-C1B
33	mH	201	CYC	C3A-C4A-CHB-C1B
33	cI	202	CYC	C3A-C4A-CHB-C1B
33	eI	202	CYC	C3A-C4A-CHB-C1B
33	gI	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
33	iI	201	CYC	C3A-C4A-CHB-C1B
33	jI	202	CYC	C3A-C4A-CHB-C1B
33	mI	201	CYC	C3A-C4A-CHB-C1B
33	cJ	202	CYC	C3A-C4A-CHB-C1B
33	eJ	202	CYC	C3A-C4A-CHB-C1B
33	gJ	201	CYC	C3A-C4A-CHB-C1B
33	iJ	201	CYC	C3A-C4A-CHB-C1B
33	jJ	202	CYC	C3A-C4A-CHB-C1B
33	mJ	201	CYC	C3A-C4A-CHB-C1B
33	bK	201	CYC	C3A-C4A-CHB-C1B
33	3K	101	CYC	C3A-C4A-CHB-C1B
33	2L	101	CYC	C3A-C4A-CHB-C1B
33	1L	201	CYC	C3A-C4A-CHB-C1B
33	4L	201	CYC	C3A-C4A-CHB-C1B
33	5L	201	CYC	C3A-C4A-CHB-C1B
33	7L	201	CYC	C3A-C4A-CHB-C1B
44	CD	517	DGD	C4D-C5D-C6D-O5D
44	CE	517	DGD	C4D-C5D-C6D-O5D
44	C1	517	DGD	C4D-C5D-C6D-O5D
43	CD	516	BCR	C36-C18-C19-C20
43	CE	516	BCR	C36-C18-C19-C20
43	C1	516	BCR	C36-C18-C19-C20
43	c1	515	BCR	C37-C22-C23-C24
43	cD	515	BCR	C37-C22-C23-C24
43	cE	515	BCR	C37-C22-C23-C24
40	dD	412	LMT	C5-C6-C7-C8
42	DD	410	LHG	O1-C1-C2-C3
42	DE	410	LHG	O1-C1-C2-C3
42	D1	409	LHG	O1-C1-C2-C3
42	a1	412	LHG	O1-C1-C2-C3
42	d1	410	LHG	O1-C1-C2-C3
42	aD	411	LHG	O1-C1-C2-C3
42	dD	410	LHG	O1-C1-C2-C3
42	aE	411	LHG	O1-C1-C2-C3
42	dE	410	LHG	O1-C1-C2-C3
43	CD	516	BCR	C17-C18-C19-C20
43	CE	516	BCR	C17-C18-C19-C20
43	C1	516	BCR	C17-C18-C19-C20
43	c1	515	BCR	C21-C22-C23-C24
43	cD	515	BCR	C21-C22-C23-C24
43	cE	515	BCR	C21-C22-C23-C24
44	c1	516	DGD	O6E-C5E-C6E-O5E

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Mol	Chain	Res	Type	Atoms
44	cD	516	DGD	O6E-C5E-C6E-O5E
44	cE	516	DGD	O6E-C5E-C6E-O5E
38	AD	407	SQD	O49-C7-O47-C45
38	AE	407	SQD	O49-C7-O47-C45
38	A1	407	SQD	O49-C7-O47-C45
45	DD	401	PHO	C10-C11-C12-C13
44	CD	518	DGD	C2B-C1B-O2G-C2G
44	CE	518	DGD	C2B-C1B-O2G-C2G
44	C1	518	DGD	C2B-C1B-O2G-C2G
44	c1	516	DGD	C2B-C1B-O2G-C2G
44	cD	516	DGD	C2B-C1B-O2G-C2G
44	cE	516	DGD	C2B-C1B-O2G-C2G
40	B1	619	LMT	C3-C4-C5-C6
38	h1	103	SQD	C7-C8-C9-C10
38	hD	103	SQD	C7-C8-C9-C10
38	hE	103	SQD	C7-C8-C9-C10
42	e1	101	LHG	C23-C24-C25-C26
42	eD	101	LHG	C23-C24-C25-C26
42	eE	101	LHG	C23-C24-C25-C26
44	CD	517	DGD	C1A-C2A-C3A-C4A
44	CD	518	DGD	C1A-C2A-C3A-C4A
44	CE	517	DGD	C1A-C2A-C3A-C4A
44	CE	518	DGD	C1A-C2A-C3A-C4A
44	C1	517	DGD	C1A-C2A-C3A-C4A
44	C1	518	DGD	C1A-C2A-C3A-C4A
39	AD	408	LMG	C30-C31-C32-C33
39	DD	411	LMG	C33-C34-C35-C36
39	AE	408	LMG	C30-C31-C32-C33
39	DE	411	LMG	C33-C34-C35-C36
39	A1	408	LMG	C30-C31-C32-C33
39	d1	411	LMG	C33-C34-C35-C36
39	dD	411	LMG	C33-C34-C35-C36
39	dE	411	LMG	C33-C34-C35-C36
40	BD	619	LMT	C3-C4-C5-C6
40	DD	412	LMT	C4-C5-C6-C7
40	BE	619	LMT	C3-C4-C5-C6
40	DE	412	LMT	C4-C5-C6-C7
40	D1	411	LMT	C4-C5-C6-C7
40	b1	620	LMT	C3-C4-C5-C6
40	d1	412	LMT	C4-C5-C6-C7
40	bD	620	LMT	C3-C4-C5-C6
40	dD	412	LMT	C4-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
40	bE	620	LMT	C3-C4-C5-C6
40	dE	412	LMT	C4-C5-C6-C7
42	BD	620	LHG	C11-C12-C13-C14
42	DD	410	LHG	C27-C28-C29-C30
42	BE	620	LHG	C11-C12-C13-C14
42	B1	621	LHG	C11-C12-C13-C14
42	D1	409	LHG	C27-C28-C29-C30
42	d1	410	LHG	C27-C28-C29-C30
42	l1	101	LHG	C11-C12-C13-C14
42	lD	101	LHG	C11-C12-C13-C14
42	lE	101	LHG	C11-C12-C13-C14
44	HD	103	DGD	C7A-C8A-C9A-CAA
44	CE	518	DGD	C4B-C5B-C6B-C7B
44	HE	103	DGD	C7A-C8A-C9A-CAA
44	H1	103	DGD	C7A-C8A-C9A-CAA
36	BD	604	CLA	C16-C17-C18-C19
36	CD	507	CLA	C6-C7-C8-C9
36	CD	511	CLA	C16-C17-C18-C20
36	XD	101	CLA	C16-C17-C18-C20
36	BE	604	CLA	C16-C17-C18-C19
36	CE	507	CLA	C6-C7-C8-C9
36	CE	511	CLA	C16-C17-C18-C20
36	XE	101	CLA	C16-C17-C18-C20
36	B1	604	CLA	C16-C17-C18-C19
36	C1	507	CLA	C6-C7-C8-C9
36	C1	511	CLA	C16-C17-C18-C20
36	X1	101	CLA	C16-C17-C18-C20
36	b1	606	CLA	C16-C17-C18-C19
36	c1	506	CLA	C6-C7-C8-C9
36	c1	514	CLA	C16-C17-C18-C19
36	x1	101	CLA	C16-C17-C18-C20
36	bD	606	CLA	C16-C17-C18-C19
36	cD	514	CLA	C16-C17-C18-C19
36	iD	101	CLA	C6-C7-C8-C9
36	xD	101	CLA	C16-C17-C18-C20
36	bE	606	CLA	C16-C17-C18-C19
36	iE	101	CLA	C6-C7-C8-C9
36	xE	101	CLA	C16-C17-C18-C20
40	AD	409	LMT	O5'-C1'-O1'-C1
40	AE	409	LMT	O5'-C1'-O1'-C1
40	A1	409	LMT	O5'-C1'-O1'-C1
39	D1	410	LMG	C33-C34-C35-C36

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Mol	Chain	Res	Type	Atoms
40	d1	413	LMT	C3-C4-C5-C6
40	dD	413	LMT	C3-C4-C5-C6
40	dE	413	LMT	C3-C4-C5-C6
42	DE	410	LHG	C27-C28-C29-C30
42	dD	410	LHG	C27-C28-C29-C30
42	dE	410	LHG	C27-C28-C29-C30
44	CD	518	DGD	C4B-C5B-C6B-C7B
44	C1	518	DGD	C4B-C5B-C6B-C7B
44	CD	518	DGD	C3A-C4A-C5A-C6A
44	CE	518	DGD	C3A-C4A-C5A-C6A
44	C1	518	DGD	C3A-C4A-C5A-C6A
44	c1	517	DGD	C2B-C3B-C4B-C5B
44	cD	517	DGD	C2B-C3B-C4B-C5B
44	cE	517	DGD	C2B-C3B-C4B-C5B
36	b1	610	CLA	C15-C16-C17-C18
36	bD	610	CLA	C15-C16-C17-C18
36	bE	610	CLA	C15-C16-C17-C18
36	c1	503	CLA	O1A-CGA-O2A-C1
36	cD	504	CLA	O1A-CGA-O2A-C1
36	cE	504	CLA	O1A-CGA-O2A-C1
44	c1	517	DGD	C9A-CAA-CBA-CCA
44	c1	517	DGD	C4B-C5B-C6B-C7B
44	cD	517	DGD	C9A-CAA-CBA-CCA
44	cD	517	DGD	C4B-C5B-C6B-C7B
44	cE	517	DGD	C9A-CAA-CBA-CCA
44	cE	517	DGD	C4B-C5B-C6B-C7B
36	CD	503	CLA	C3-C5-C6-C7
36	CE	503	CLA	C3-C5-C6-C7
36	C1	503	CLA	C3-C5-C6-C7
36	BD	613	CLA	CBA-CGA-O2A-C1
36	BE	613	CLA	CBA-CGA-O2A-C1
36	B1	613	CLA	CBA-CGA-O2A-C1
36	b1	614	CLA	CBA-CGA-O2A-C1
36	bD	614	CLA	CBA-CGA-O2A-C1
36	bE	614	CLA	CBA-CGA-O2A-C1
38	AE	407	SQD	C17-C18-C19-C20
39	y1	101	LMG	C11-C12-C13-C14
39	yD	101	LMG	C11-C12-C13-C14
39	yE	101	LMG	C11-C12-C13-C14
44	HD	103	DGD	C5B-C6B-C7B-C8B
44	HE	103	DGD	C5B-C6B-C7B-C8B
44	H1	103	DGD	C5B-C6B-C7B-C8B

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Mol	Chain	Res	Type	Atoms
33	5G	201	CYC	C3D-CAD-CBD-CGD
33	5L	201	CYC	C3D-CAD-CBD-CGD
36	CD	512	CLA	C3A-C2A-CAA-CBA
36	CE	512	CLA	C3A-C2A-CAA-CBA
36	C1	512	CLA	C3A-C2A-CAA-CBA
36	c1	513	CLA	C3A-C2A-CAA-CBA
36	cD	513	CLA	C3A-C2A-CAA-CBA
36	cE	513	CLA	C3A-C2A-CAA-CBA
45	D1	402	PHO	C3A-C2A-CAA-CBA
36	BD	609	CLA	C15-C16-C17-C18
36	BD	610	CLA	C15-C16-C17-C18
36	BE	609	CLA	C15-C16-C17-C18
36	BE	610	CLA	C15-C16-C17-C18
36	B1	609	CLA	C15-C16-C17-C18
36	B1	610	CLA	C15-C16-C17-C18
36	b1	611	CLA	C15-C16-C17-C18
36	bD	611	CLA	C15-C16-C17-C18
36	bE	611	CLA	C15-C16-C17-C18
45	aD	412	PHO	C10-C11-C12-C13
43	DD	407	BCR	C9-C10-C11-C12
43	DE	407	BCR	C9-C10-C11-C12
43	D1	406	BCR	C9-C10-C11-C12
43	c1	515	BCR	C9-C10-C11-C12
43	cD	515	BCR	C9-C10-C11-C12
43	cE	515	BCR	C9-C10-C11-C12
40	AD	412	LMT	C2-C1-O1'-C1'
40	AE	412	LMT	C2-C1-O1'-C1'
40	A1	413	LMT	C2-C1-O1'-C1'
40	j1	101	LMT	C2-C1-O1'-C1'
40	jD	101	LMT	C2-C1-O1'-C1'
40	jE	101	LMT	C2-C1-O1'-C1'
38	AD	407	SQD	C17-C18-C19-C20
38	A1	407	SQD	C17-C18-C19-C20
40	AD	412	LMT	C11-C10-C9-C8
40	AE	412	LMT	C11-C10-C9-C8
40	A1	413	LMT	C11-C10-C9-C8
36	c1	513	CLA	O1A-CGA-O2A-C1
36	cD	513	CLA	O1A-CGA-O2A-C1
36	cE	513	CLA	O1A-CGA-O2A-C1
36	BD	604	CLA	C16-C17-C18-C20
36	HD	102	CLA	C11-C12-C13-C14
36	XD	101	CLA	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
36	BE	604	CLA	C16-C17-C18-C20
36	BE	612	CLA	C16-C17-C18-C19
36	HE	102	CLA	C11-C12-C13-C14
36	XE	101	CLA	C16-C17-C18-C19
36	B1	604	CLA	C16-C17-C18-C20
36	B1	612	CLA	C16-C17-C18-C19
36	H1	102	CLA	C11-C12-C13-C14
36	X1	101	CLA	C16-C17-C18-C19
36	b1	606	CLA	C16-C17-C18-C20
36	c1	506	CLA	C6-C7-C8-C10
36	h1	102	CLA	C11-C12-C13-C14
36	x1	101	CLA	C16-C17-C18-C19
36	bD	606	CLA	C16-C17-C18-C20
36	hD	102	CLA	C11-C12-C13-C14
36	iD	101	CLA	C6-C7-C8-C10
36	xD	101	CLA	C16-C17-C18-C19
36	bE	606	CLA	C16-C17-C18-C20
36	bE	613	CLA	C16-C17-C18-C19
36	cE	514	CLA	C16-C17-C18-C19
36	hE	102	CLA	C11-C12-C13-C14
36	iE	101	CLA	C6-C7-C8-C10
36	xE	101	CLA	C16-C17-C18-C19
38	c1	501	SQD	C12-C13-C14-C15
38	cD	502	SQD	C12-C13-C14-C15
38	cE	502	SQD	C12-C13-C14-C15
39	DD	411	LMG	C12-C13-C14-C15
39	DE	411	LMG	C12-C13-C14-C15
39	D1	410	LMG	C12-C13-C14-C15
39	d1	411	LMG	C12-C13-C14-C15
39	dD	411	LMG	C12-C13-C14-C15
39	dE	411	LMG	C12-C13-C14-C15
42	BD	620	LHG	C16-C17-C18-C19
42	BE	620	LHG	C16-C17-C18-C19
42	B1	621	LHG	C16-C17-C18-C19
42	l1	101	LHG	C16-C17-C18-C19
42	lD	101	LHG	C16-C17-C18-C19
42	lE	101	LHG	C16-C17-C18-C19
40	AD	409	LMT	O5'-C5'-C6'-O6'
40	AE	409	LMT	O5'-C5'-C6'-O6'
40	A1	409	LMT	O5'-C5'-C6'-O6'
40	dD	413	LMT	C1-C2-C3-C4
40	dE	413	LMT	C1-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
40	DD	412	LMT	C6-C7-C8-C9
40	DE	412	LMT	C6-C7-C8-C9
40	D1	411	LMT	C6-C7-C8-C9
40	d1	412	LMT	C6-C7-C8-C9
40	dD	412	LMT	C6-C7-C8-C9
40	dE	412	LMT	C6-C7-C8-C9
36	BD	611	CLA	C3-C5-C6-C7
36	BE	611	CLA	C3-C5-C6-C7
36	B1	611	CLA	C3-C5-C6-C7
40	d1	413	LMT	C1-C2-C3-C4
38	CD	501	SQD	C12-C13-C14-C15
38	CE	501	SQD	C12-C13-C14-C15
38	C1	501	SQD	C12-C13-C14-C15
44	h1	104	DGD	C9A-CAA-CBA-CCA
44	hD	104	DGD	C9A-CAA-CBA-CCA
44	hE	104	DGD	C9A-CAA-CBA-CCA
39	CD	502	LMG	O10-C28-O8-C9
39	CE	502	LMG	O10-C28-O8-C9
39	C1	502	LMG	O10-C28-O8-C9
37	AD	406	PL9	C12-C11-C9-C10
37	AE	406	PL9	C12-C11-C9-C10
37	A1	406	PL9	C12-C11-C9-C10
36	CD	512	CLA	C2-C3-C5-C6
36	CE	512	CLA	C2-C3-C5-C6
36	C1	512	CLA	C2-C3-C5-C6
37	AD	406	PL9	C12-C11-C9-C8
37	AE	406	PL9	C12-C11-C9-C8
37	A1	406	PL9	C12-C11-C9-C8
36	AD	404	CLA	CBA-CGA-O2A-C1
36	AE	404	CLA	CBA-CGA-O2A-C1
36	A1	404	CLA	CBA-CGA-O2A-C1
39	DD	411	LMG	C19-C20-C21-C22
39	DE	411	LMG	C19-C20-C21-C22
39	D1	410	LMG	C19-C20-C21-C22
39	d1	411	LMG	C19-C20-C21-C22
39	dD	411	LMG	C19-C20-C21-C22
39	dE	411	LMG	C19-C20-C21-C22
40	i1	102	LMT	C6-C7-C8-C9
40	iD	103	LMT	C6-C7-C8-C9
40	iE	103	LMT	C6-C7-C8-C9
44	CD	518	DGD	C9A-CAA-CBA-CCA
44	CE	518	DGD	C9A-CAA-CBA-CCA

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Mol	Chain	Res	Type	Atoms
44	C1	518	DGD	C9A-CAA-CBA-CCA
44	cE	517	DGD	C1A-C2A-C3A-C4A
44	c1	518	DGD	O6E-C5E-C6E-O5E
44	cD	518	DGD	O6E-C5E-C6E-O5E
44	cE	518	DGD	O6E-C5E-C6E-O5E
36	BD	612	CLA	C16-C17-C18-C19
36	b1	613	CLA	C16-C17-C18-C19
36	bD	613	CLA	C16-C17-C18-C19
36	b1	612	CLA	C3-C5-C6-C7
36	c1	507	CLA	C3-C5-C6-C7
36	bD	612	CLA	C3-C5-C6-C7
36	cD	507	CLA	C3-C5-C6-C7
36	bE	612	CLA	C3-C5-C6-C7
36	cE	507	CLA	C3-C5-C6-C7
36	c1	509	CLA	CBA-CGA-O2A-C1
36	cD	509	CLA	CBA-CGA-O2A-C1
36	cE	509	CLA	CBA-CGA-O2A-C1
38	CE	501	SQD	C17-C18-C19-C20
39	BD	618	LMG	C10-C11-C12-C13
39	b1	619	LMG	C10-C11-C12-C13
39	bE	619	LMG	C10-C11-C12-C13
44	c1	517	DGD	C1A-C2A-C3A-C4A
44	cD	517	DGD	C1A-C2A-C3A-C4A
38	CD	501	SQD	C17-C18-C19-C20
38	C1	501	SQD	C17-C18-C19-C20
42	BE	620	LHG	C25-C26-C27-C28
42	B1	621	LHG	C25-C26-C27-C28
39	BD	618	LMG	C14-C15-C16-C17
39	BE	618	LMG	C14-C15-C16-C17
39	B1	618	LMG	C14-C15-C16-C17
39	b1	619	LMG	C14-C15-C16-C17
39	bD	619	LMG	C14-C15-C16-C17
39	bE	619	LMG	C14-C15-C16-C17
40	BD	622	LMT	C6-C7-C8-C9
40	BE	622	LMT	C6-C7-C8-C9
40	a1	401	LMT	C6-C7-C8-C9
42	BD	620	LHG	C25-C26-C27-C28
42	11	101	LHG	C25-C26-C27-C28
42	1D	101	LHG	C25-C26-C27-C28
42	1E	101	LHG	C25-C26-C27-C28
36	BD	610	CLA	C8-C10-C11-C12
36	BE	610	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
36	B1	610	CLA	C8-C10-C11-C12
36	b1	611	CLA	C8-C10-C11-C12
36	bD	611	CLA	C8-C10-C11-C12
36	bE	611	CLA	C8-C10-C11-C12
45	A1	412	PHO	C10-C11-C12-C13
36	b1	614	CLA	O1A-CGA-O2A-C1
36	bD	614	CLA	O1A-CGA-O2A-C1
36	bE	614	CLA	O1A-CGA-O2A-C1
40	DD	404	LMT	C1-C2-C3-C4
40	DE	404	LMT	C1-C2-C3-C4
40	D1	403	LMT	C1-C2-C3-C4
40	d1	404	LMT	C1-C2-C3-C4
40	dD	404	LMT	C1-C2-C3-C4
39	CD	502	LMG	C31-C32-C33-C34
39	CE	502	LMG	C31-C32-C33-C34
39	C1	502	LMG	C31-C32-C33-C34
39	BE	618	LMG	C10-C11-C12-C13
39	B1	618	LMG	C10-C11-C12-C13
39	bD	619	LMG	C10-C11-C12-C13
43	CD	516	BCR	C5-C6-C7-C8
43	DD	407	BCR	C1-C6-C7-C8
43	DD	407	BCR	C23-C24-C25-C26
43	DD	407	BCR	C23-C24-C25-C30
43	ID	102	BCR	C5-C6-C7-C8
43	XD	102	BCR	C23-C24-C25-C26
43	CE	516	BCR	C5-C6-C7-C8
43	DE	407	BCR	C1-C6-C7-C8
43	DE	407	BCR	C23-C24-C25-C26
43	DE	407	BCR	C23-C24-C25-C30
43	IE	102	BCR	C5-C6-C7-C8
43	XE	102	BCR	C23-C24-C25-C26
43	C1	516	BCR	C5-C6-C7-C8
43	D1	406	BCR	C1-C6-C7-C8
43	D1	406	BCR	C23-C24-C25-C26
43	D1	406	BCR	C23-C24-C25-C30
43	I1	102	BCR	C5-C6-C7-C8
43	X1	102	BCR	C23-C24-C25-C26
43	c1	515	BCR	C5-C6-C7-C8
43	d1	407	BCR	C1-C6-C7-C8
43	d1	407	BCR	C23-C24-C25-C26
43	d1	407	BCR	C23-C24-C25-C30
43	h1	105	BCR	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
43	i1	101	BCR	C1-C6-C7-C8
43	i1	101	BCR	C5-C6-C7-C8
43	cD	515	BCR	C5-C6-C7-C8
43	dD	407	BCR	C1-C6-C7-C8
43	dD	407	BCR	C23-C24-C25-C26
43	dD	407	BCR	C23-C24-C25-C30
43	hD	105	BCR	C23-C24-C25-C26
43	iD	102	BCR	C1-C6-C7-C8
43	iD	102	BCR	C5-C6-C7-C8
43	cE	515	BCR	C5-C6-C7-C8
43	dE	407	BCR	C1-C6-C7-C8
43	dE	407	BCR	C23-C24-C25-C26
43	dE	407	BCR	C23-C24-C25-C30
43	hE	105	BCR	C23-C24-C25-C26
43	iE	102	BCR	C5-C6-C7-C8
44	CD	517	DGD	O6E-C5E-C6E-O5E
44	CE	517	DGD	O6E-C5E-C6E-O5E
44	C1	517	DGD	O6E-C5E-C6E-O5E
33	nF	201	CYC	C2B-C3B-CAB-CBB
33	nK	201	CYC	C2B-C3B-CAB-CBB
40	CD	522	LMT	O1'-C1-C2-C3
40	B1	620	LMT	O1'-C1-C2-C3
40	C1	521	LMT	O1'-C1-C2-C3
40	cD	501	LMT	O1'-C1-C2-C3
40	bE	621	LMT	O1'-C1-C2-C3
40	cE	501	LMT	O1'-C1-C2-C3
44	c1	517	DGD	C4A-C5A-C6A-C7A
44	cD	517	DGD	C4A-C5A-C6A-C7A
44	cE	517	DGD	C4A-C5A-C6A-C7A
36	CD	514	CLA	CBA-CGA-O2A-C1
36	CE	514	CLA	CBA-CGA-O2A-C1
36	C1	514	CLA	CBA-CGA-O2A-C1
36	BD	607	CLA	C13-C15-C16-C17
36	DD	405	CLA	C5-C6-C7-C8
36	BE	607	CLA	C13-C15-C16-C17
36	DE	405	CLA	C5-C6-C7-C8
36	B1	607	CLA	C13-C15-C16-C17
36	D1	404	CLA	C5-C6-C7-C8
36	b1	609	CLA	C13-C15-C16-C17
36	d1	405	CLA	C5-C6-C7-C8
36	bD	609	CLA	C13-C15-C16-C17
36	dD	405	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
36	bE	609	CLA	C13-C15-C16-C17
36	dE	405	CLA	C5-C6-C7-C8
33	CB	1001	CYC	C2A-CAA-CBA-CGA
33	C4	1001	CYC	C2A-CAA-CBA-CGA
33	jF	201	CYC	C2A-CAA-CBA-CGA
33	6G	201	CYC	C2A-CAA-CBA-CGA
33	jK	201	CYC	C2A-CAA-CBA-CGA
33	6L	201	CYC	C2A-CAA-CBA-CGA
42	e1	101	LHG	C8-C7-O7-C5
42	eD	101	LHG	C8-C7-O7-C5
42	eE	101	LHG	C8-C7-O7-C5
36	BD	613	CLA	O1A-CGA-O2A-C1
36	BE	613	CLA	O1A-CGA-O2A-C1
36	B1	613	CLA	O1A-CGA-O2A-C1
40	dE	404	LMT	C1-C2-C3-C4
36	BD	610	CLA	C4-C3-C5-C6
36	BE	610	CLA	C4-C3-C5-C6
36	B1	610	CLA	C4-C3-C5-C6
36	b1	611	CLA	C4-C3-C5-C6
36	bD	611	CLA	C4-C3-C5-C6
36	bE	611	CLA	C4-C3-C5-C6
36	AD	405	CLA	C6-C7-C8-C10
36	BD	605	CLA	C12-C13-C15-C16
36	BD	610	CLA	C2-C3-C5-C6
36	BD	612	CLA	C12-C13-C15-C16
36	CD	515	CLA	C6-C7-C8-C10
36	HD	102	CLA	C11-C10-C8-C7
36	ID	101	CLA	C11-C10-C8-C7
36	AE	405	CLA	C6-C7-C8-C10
36	BE	605	CLA	C12-C13-C15-C16
36	BE	610	CLA	C2-C3-C5-C6
36	BE	612	CLA	C12-C13-C15-C16
36	CE	515	CLA	C6-C7-C8-C10
36	HE	102	CLA	C11-C10-C8-C7
36	IE	101	CLA	C11-C10-C8-C7
36	A1	405	CLA	C6-C7-C8-C10
36	B1	605	CLA	C12-C13-C15-C16
36	B1	610	CLA	C2-C3-C5-C6
36	B1	612	CLA	C12-C13-C15-C16
36	C1	515	CLA	C6-C7-C8-C10
36	H1	102	CLA	C11-C10-C8-C7
36	I1	101	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
36	b1	604	CLA	C6-C7-C8-C10
36	b1	607	CLA	C12-C13-C15-C16
36	b1	611	CLA	C2-C3-C5-C6
36	b1	613	CLA	C12-C13-C15-C16
36	h1	102	CLA	C11-C10-C8-C7
36	bD	604	CLA	C6-C7-C8-C10
36	bD	607	CLA	C12-C13-C15-C16
36	bD	611	CLA	C2-C3-C5-C6
36	bD	613	CLA	C12-C13-C15-C16
36	hD	102	CLA	C11-C10-C8-C7
36	bE	604	CLA	C6-C7-C8-C10
36	bE	607	CLA	C12-C13-C15-C16
36	bE	611	CLA	C2-C3-C5-C6
36	bE	613	CLA	C12-C13-C15-C16
36	hE	102	CLA	C11-C10-C8-C7
37	DD	408	PL9	C38-C39-C41-C42
37	DE	408	PL9	C38-C39-C41-C42
37	D1	407	PL9	C38-C39-C41-C42
37	d1	408	PL9	C38-C39-C41-C42
37	dD	408	PL9	C38-C39-C41-C42
37	dE	408	PL9	C38-C39-C41-C42
45	DE	403	PHO	C11-C12-C13-C15
45	A1	412	PHO	C12-C13-C15-C16
45	D1	402	PHO	C11-C12-C13-C15
36	CD	514	CLA	O1A-CGA-O2A-C1
36	CE	514	CLA	O1A-CGA-O2A-C1
36	C1	514	CLA	O1A-CGA-O2A-C1
33	y4	201	CYC	C2B-C3B-CAB-CBB
33	yB	201	CYC	C2B-C3B-CAB-CBB
40	AD	409	LMT	C3-C4-C5-C6
40	AE	409	LMT	C3-C4-C5-C6
40	A1	409	LMT	C3-C4-C5-C6
40	b1	602	LMT	C4-C5-C6-C7
40	bD	602	LMT	C4-C5-C6-C7
42	BD	620	LHG	C12-C13-C14-C15
42	BE	620	LHG	C12-C13-C14-C15
42	B1	621	LHG	C12-C13-C14-C15
42	l1	101	LHG	C12-C13-C14-C15
42	lD	101	LHG	C12-C13-C14-C15
42	lE	101	LHG	C12-C13-C14-C15
43	d1	407	BCR	C9-C10-C11-C12
43	dD	407	BCR	C9-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
43	dE	407	BCR	C9-C10-C11-C12
39	TD	101	LMG	O9-C10-O7-C8
39	TE	101	LMG	O9-C10-O7-C8
39	T1	101	LMG	O9-C10-O7-C8
39	t1	101	LMG	O9-C10-O7-C8
39	tD	101	LMG	O9-C10-O7-C8
39	tE	101	LMG	O9-C10-O7-C8
44	CD	518	DGD	O1B-C1B-O2G-C2G
44	CE	518	DGD	O1B-C1B-O2G-C2G
44	C1	518	DGD	O1B-C1B-O2G-C2G
39	TD	101	LMG	C29-C28-O8-C9
39	TE	101	LMG	C29-C28-O8-C9
39	T1	101	LMG	C29-C28-O8-C9
39	t1	101	LMG	C29-C28-O8-C9
39	tD	101	LMG	C29-C28-O8-C9
39	tE	101	LMG	C29-C28-O8-C9
40	DD	404	LMT	C5-C6-C7-C8
40	DE	404	LMT	C5-C6-C7-C8
40	D1	403	LMT	C5-C6-C7-C8
40	bE	602	LMT	C4-C5-C6-C7
36	c1	502	CLA	C2A-CAA-CBA-CGA
36	cD	503	CLA	C2A-CAA-CBA-CGA
36	cE	503	CLA	C2A-CAA-CBA-CGA
45	A1	412	PHO	C2A-CAA-CBA-CGA
45	aD	412	PHO	C2A-CAA-CBA-CGA
36	BD	612	CLA	C13-C15-C16-C17
36	BE	612	CLA	C13-C15-C16-C17
36	B1	612	CLA	C13-C15-C16-C17
36	b1	613	CLA	C13-C15-C16-C17
36	bD	613	CLA	C13-C15-C16-C17
36	bE	613	CLA	C13-C15-C16-C17
40	BD	623	LMT	C4-C5-C6-C7
40	BE	623	LMT	C4-C5-C6-C7
40	B1	623	LMT	C4-C5-C6-C7
40	d1	404	LMT	C5-C6-C7-C8
40	dD	404	LMT	C5-C6-C7-C8
40	dE	404	LMT	C5-C6-C7-C8
33	ZF	201	CYC	C2B-C3B-CAB-CBB
33	ZK	201	CYC	C2B-C3B-CAB-CBB
39	aD	409	LMG	O6-C5-C6-O5
36	CD	513	CLA	C5-C6-C7-C8
36	CE	513	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
36	C1	513	CLA	C5-C6-C7-C8
39	a1	410	LMG	O6-C5-C6-O5
39	aE	409	LMG	O6-C5-C6-O5
36	c1	509	CLA	O1A-CGA-O2A-C1
36	cE	509	CLA	O1A-CGA-O2A-C1
36	BD	609	CLA	CBA-CGA-O2A-C1
36	BE	609	CLA	CBA-CGA-O2A-C1
36	B1	609	CLA	CBA-CGA-O2A-C1
36	b1	610	CLA	CBA-CGA-O2A-C1
36	bD	610	CLA	CBA-CGA-O2A-C1
36	bE	610	CLA	CBA-CGA-O2A-C1
36	c1	510	CLA	C16-C17-C18-C19
36	cD	510	CLA	C16-C17-C18-C19
36	cE	510	CLA	C16-C17-C18-C19
45	DE	401	PHO	C10-C11-C12-C13
36	XE	101	CLA	O1D-CGD-O2D-CED
38	BD	621	SQD	C8-C7-O47-C45
38	DD	414	SQD	C8-C7-O47-C45
38	BE	621	SQD	C8-C7-O47-C45
38	DE	414	SQD	C8-C7-O47-C45
38	B1	622	SQD	C8-C7-O47-C45
38	D1	413	SQD	C8-C7-O47-C45
38	d1	414	SQD	C8-C7-O47-C45
38	dD	414	SQD	C8-C7-O47-C45
38	dE	414	SQD	C8-C7-O47-C45
39	TD	101	LMG	C11-C10-O7-C8
39	TE	101	LMG	C11-C10-O7-C8
39	T1	101	LMG	C11-C10-O7-C8
39	t1	101	LMG	C11-C10-O7-C8
39	tD	101	LMG	C11-C10-O7-C8
39	tE	101	LMG	C11-C10-O7-C8
39	DD	411	LMG	C20-C21-C22-C23
39	DE	411	LMG	C20-C21-C22-C23
39	D1	410	LMG	C20-C21-C22-C23
39	d1	411	LMG	C20-C21-C22-C23
39	dD	411	LMG	C20-C21-C22-C23
39	dE	411	LMG	C20-C21-C22-C23
47	VD	201	HEM	C4B-C3B-CAB-CBB
47	VE	201	HEM	C4B-C3B-CAB-CBB
47	V1	201	HEM	C4B-C3B-CAB-CBB
47	v1	201	HEM	C4B-C3B-CAB-CBB
47	vD	201	HEM	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
47	vE	201	HEM	C4B-C3B-CAB-CBB
36	c1	503	CLA	CBD-CGD-O2D-CED
36	cD	504	CLA	CBD-CGD-O2D-CED
36	cE	504	CLA	CBD-CGD-O2D-CED
36	cD	509	CLA	O1A-CGA-O2A-C1
44	JD	101	DGD	C5B-C6B-C7B-C8B
44	JE	101	DGD	C5B-C6B-C7B-C8B
44	J1	101	DGD	C5B-C6B-C7B-C8B
38	DD	414	SQD	O49-C7-O47-C45
38	DE	414	SQD	O49-C7-O47-C45
38	D1	413	SQD	O49-C7-O47-C45
38	d1	414	SQD	O49-C7-O47-C45
38	dD	414	SQD	O49-C7-O47-C45
38	dE	414	SQD	O49-C7-O47-C45
36	CD	505	CLA	C3-C5-C6-C7
36	CE	505	CLA	C3-C5-C6-C7
36	C1	505	CLA	C3-C5-C6-C7
36	XD	101	CLA	O1D-CGD-O2D-CED
38	DD	414	SQD	C2-C1-O6-C44
38	DE	414	SQD	C2-C1-O6-C44
38	D1	413	SQD	C2-C1-O6-C44
38	d1	414	SQD	C2-C1-O6-C44
38	dD	414	SQD	C2-C1-O6-C44
38	dE	414	SQD	C2-C1-O6-C44
45	aD	412	PHO	C13-C15-C16-C17
38	BD	621	SQD	O6-C44-C45-O47
38	BE	621	SQD	O6-C44-C45-O47
38	B1	622	SQD	O6-C44-C45-O47
38	c1	501	SQD	O6-C44-C45-O47
38	cD	502	SQD	O6-C44-C45-O47
38	cE	502	SQD	O6-C44-C45-O47
40	AD	412	LMT	O1'-C1-C2-C3
40	AE	412	LMT	O1'-C1-C2-C3
40	A1	413	LMT	O1'-C1-C2-C3
36	X1	101	CLA	O1D-CGD-O2D-CED
40	D1	412	LMT	O1'-C1-C2-C3
39	DD	411	LMG	O6-C5-C6-O5
39	DE	411	LMG	O6-C5-C6-O5
39	D1	410	LMG	O6-C5-C6-O5
39	d1	411	LMG	O6-C5-C6-O5
39	dD	411	LMG	O6-C5-C6-O5
39	dE	411	LMG	O6-C5-C6-O5

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Mol	Chain	Res	Type	Atoms
36	xE	101	CLA	O1D-CGD-O2D-CED
37	DD	408	PL9	C4-C3-C7-C8
37	DE	408	PL9	C4-C3-C7-C8
37	D1	407	PL9	C4-C3-C7-C8
37	d1	408	PL9	C4-C3-C7-C8
37	dD	408	PL9	C4-C3-C7-C8
37	dE	408	PL9	C4-C3-C7-C8
40	DD	413	LMT	O1'-C1-C2-C3
40	DE	413	LMT	O1'-C1-C2-C3
36	BD	602	CLA	C6-C7-C8-C9
36	BD	605	CLA	C14-C13-C15-C16
36	BD	612	CLA	C14-C13-C15-C16
36	BD	614	CLA	C11-C12-C13-C14
36	DD	406	CLA	C11-C10-C8-C9
36	ID	101	CLA	C11-C10-C8-C9
36	BE	602	CLA	C6-C7-C8-C9
36	BE	605	CLA	C14-C13-C15-C16
36	BE	612	CLA	C14-C13-C15-C16
36	BE	614	CLA	C11-C12-C13-C14
36	DE	406	CLA	C11-C10-C8-C9
36	IE	101	CLA	C11-C10-C8-C9
36	B1	602	CLA	C6-C7-C8-C9
36	B1	605	CLA	C14-C13-C15-C16
36	B1	612	CLA	C14-C13-C15-C16
36	B1	614	CLA	C11-C12-C13-C14
36	D1	405	CLA	C11-C10-C8-C9
36	I1	101	CLA	C11-C10-C8-C9
36	a1	407	CLA	C6-C7-C8-C9
36	b1	604	CLA	C6-C7-C8-C9
36	b1	607	CLA	C14-C13-C15-C16
36	b1	613	CLA	C14-C13-C15-C16
36	b1	615	CLA	C11-C12-C13-C14
36	d1	406	CLA	C11-C10-C8-C9
36	aD	406	CLA	C6-C7-C8-C9
36	bD	604	CLA	C6-C7-C8-C9
36	bD	607	CLA	C14-C13-C15-C16
36	bD	613	CLA	C14-C13-C15-C16
36	bD	615	CLA	C11-C12-C13-C14
36	dD	406	CLA	C11-C10-C8-C9
36	aE	406	CLA	C6-C7-C8-C9
36	bE	604	CLA	C6-C7-C8-C9
36	bE	607	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
36	bE	613	CLA	C14-C13-C15-C16
36	bE	615	CLA	C11-C12-C13-C14
36	dE	406	CLA	C11-C10-C8-C9
45	DE	401	PHO	C11-C10-C8-C9
45	A1	412	PHO	C11-C10-C8-C9
45	aD	412	PHO	C11-C10-C8-C9
36	xD	101	CLA	O1D-CGD-O2D-CED
36	x1	101	CLA	O1D-CGD-O2D-CED
36	CD	515	CLA	C2A-CAA-CBA-CGA
36	CE	515	CLA	C2A-CAA-CBA-CGA
36	C1	515	CLA	C2A-CAA-CBA-CGA
45	DE	401	PHO	C2A-CAA-CBA-CGA
45	DE	403	PHO	C2A-CAA-CBA-CGA
44	C1	517	DGD	C4A-C5A-C6A-C7A
33	eF	201	CYC	C1A-C2A-CAA-CBA
33	eK	201	CYC	C1A-C2A-CAA-CBA
33	1G	201	CYC	C2B-C3B-CAB-CBB
33	1L	201	CYC	C2B-C3B-CAB-CBB
42	a1	412	LHG	C24-C25-C26-C27
42	aD	411	LHG	C24-C25-C26-C27
42	aE	411	LHG	C24-C25-C26-C27
44	CD	517	DGD	C4A-C5A-C6A-C7A
44	CE	517	DGD	C4A-C5A-C6A-C7A
36	BD	603	CLA	C1A-C2A-CAA-CBA
36	BD	604	CLA	C1A-C2A-CAA-CBA
36	BD	606	CLA	C1A-C2A-CAA-CBA
36	BD	611	CLA	C1A-C2A-CAA-CBA
36	CD	503	CLA	C1A-C2A-CAA-CBA
36	CD	508	CLA	C1A-C2A-CAA-CBA
36	CD	512	CLA	C1A-C2A-CAA-CBA
36	DD	405	CLA	C1A-C2A-CAA-CBA
36	DD	406	CLA	C1A-C2A-CAA-CBA
36	HD	101	CLA	C1A-C2A-CAA-CBA
36	XD	101	CLA	C1A-C2A-CAA-CBA
36	BE	603	CLA	C1A-C2A-CAA-CBA
36	BE	604	CLA	C1A-C2A-CAA-CBA
36	BE	606	CLA	C1A-C2A-CAA-CBA
36	BE	611	CLA	C1A-C2A-CAA-CBA
36	CE	503	CLA	C1A-C2A-CAA-CBA
36	CE	508	CLA	C1A-C2A-CAA-CBA
36	CE	512	CLA	C1A-C2A-CAA-CBA
36	DE	405	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
36	DE	406	CLA	C1A-C2A-CAA-CBA
36	HE	101	CLA	C1A-C2A-CAA-CBA
36	XE	101	CLA	C1A-C2A-CAA-CBA
36	B1	603	CLA	C1A-C2A-CAA-CBA
36	B1	604	CLA	C1A-C2A-CAA-CBA
36	B1	606	CLA	C1A-C2A-CAA-CBA
36	B1	611	CLA	C1A-C2A-CAA-CBA
36	C1	503	CLA	C1A-C2A-CAA-CBA
36	C1	508	CLA	C1A-C2A-CAA-CBA
36	C1	512	CLA	C1A-C2A-CAA-CBA
36	D1	404	CLA	C1A-C2A-CAA-CBA
36	D1	405	CLA	C1A-C2A-CAA-CBA
36	H1	101	CLA	C1A-C2A-CAA-CBA
36	X1	101	CLA	C1A-C2A-CAA-CBA
36	a1	407	CLA	C1A-C2A-CAA-CBA
36	b1	605	CLA	C1A-C2A-CAA-CBA
36	b1	606	CLA	C1A-C2A-CAA-CBA
36	b1	608	CLA	C1A-C2A-CAA-CBA
36	b1	612	CLA	C1A-C2A-CAA-CBA
36	c1	502	CLA	C1A-C2A-CAA-CBA
36	c1	507	CLA	C1A-C2A-CAA-CBA
36	c1	512	CLA	C1A-C2A-CAA-CBA
36	c1	513	CLA	C1A-C2A-CAA-CBA
36	d1	405	CLA	C1A-C2A-CAA-CBA
36	d1	406	CLA	C1A-C2A-CAA-CBA
36	h1	101	CLA	C1A-C2A-CAA-CBA
36	x1	101	CLA	C1A-C2A-CAA-CBA
36	aD	406	CLA	C1A-C2A-CAA-CBA
36	bD	605	CLA	C1A-C2A-CAA-CBA
36	bD	606	CLA	C1A-C2A-CAA-CBA
36	bD	608	CLA	C1A-C2A-CAA-CBA
36	bD	612	CLA	C1A-C2A-CAA-CBA
36	cD	503	CLA	C1A-C2A-CAA-CBA
36	cD	507	CLA	C1A-C2A-CAA-CBA
36	cD	512	CLA	C1A-C2A-CAA-CBA
36	cD	513	CLA	C1A-C2A-CAA-CBA
36	dD	405	CLA	C1A-C2A-CAA-CBA
36	dD	406	CLA	C1A-C2A-CAA-CBA
36	hD	101	CLA	C1A-C2A-CAA-CBA
36	xD	101	CLA	C1A-C2A-CAA-CBA
36	aE	406	CLA	C1A-C2A-CAA-CBA
36	bE	605	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
36	bE	606	CLA	C1A-C2A-CAA-CBA
36	bE	608	CLA	C1A-C2A-CAA-CBA
36	bE	612	CLA	C1A-C2A-CAA-CBA
36	cE	503	CLA	C1A-C2A-CAA-CBA
36	cE	507	CLA	C1A-C2A-CAA-CBA
36	cE	512	CLA	C1A-C2A-CAA-CBA
36	cE	513	CLA	C1A-C2A-CAA-CBA
36	dE	405	CLA	C1A-C2A-CAA-CBA
36	dE	406	CLA	C1A-C2A-CAA-CBA
36	hE	101	CLA	C1A-C2A-CAA-CBA
36	xE	101	CLA	C1A-C2A-CAA-CBA
40	CD	522	LMT	O5'-C5'-C6'-O6'
40	B1	620	LMT	O5'-C5'-C6'-O6'
40	C1	521	LMT	O5'-C5'-C6'-O6'
40	cD	501	LMT	O5'-C5'-C6'-O6'
40	bE	621	LMT	O5'-C5'-C6'-O6'
40	cE	501	LMT	O5'-C5'-C6'-O6'
42	e1	101	LHG	O9-C7-O7-C5
42	eD	101	LHG	O9-C7-O7-C5
42	eE	101	LHG	O9-C7-O7-C5
36	c1	502	CLA	C5-C6-C7-C8
36	c1	507	CLA	C15-C16-C17-C18
36	cD	507	CLA	C15-C16-C17-C18
36	cE	503	CLA	C5-C6-C7-C8
36	cE	507	CLA	C15-C16-C17-C18
42	DD	410	LHG	C3-O3-P-O6
42	DE	410	LHG	C3-O3-P-O6
42	D1	409	LHG	C3-O3-P-O6
42	d1	410	LHG	C3-O3-P-O6
42	dD	410	LHG	C3-O3-P-O6
42	dE	410	LHG	C3-O3-P-O6
39	j1	102	LMG	O6-C5-C6-O5
39	jD	102	LMG	O6-C5-C6-O5
39	jE	102	LMG	O6-C5-C6-O5
44	HD	103	DGD	CCA-CDA-CEA-CFA
44	HE	103	DGD	CCA-CDA-CEA-CFA
44	H1	103	DGD	CCA-CDA-CEA-CFA
36	c1	502	CLA	C13-C15-C16-C17
36	cD	503	CLA	C5-C6-C7-C8
36	cD	503	CLA	C13-C15-C16-C17
36	cE	503	CLA	C13-C15-C16-C17
42	AD	411	LHG	O6-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
42	AE	411	LHG	O6-C4-C5-C6
42	A1	411	LHG	O6-C4-C5-C6
42	a1	412	LHG	O6-C4-C5-C6
42	aD	411	LHG	O6-C4-C5-C6
42	aE	411	LHG	O6-C4-C5-C6
39	yD	101	LMG	C13-C14-C15-C16
39	yE	101	LMG	C13-C14-C15-C16
40	BE	619	LMT	C4-C5-C6-C7
39	y1	101	LMG	C13-C14-C15-C16
40	BD	619	LMT	C4-C5-C6-C7
40	B1	619	LMT	C4-C5-C6-C7
40	b1	620	LMT	C4-C5-C6-C7
40	bD	620	LMT	C4-C5-C6-C7
40	bE	620	LMT	C4-C5-C6-C7
39	y1	101	LMG	C37-C38-C39-C40
39	yE	101	LMG	C37-C38-C39-C40
39	yD	101	LMG	C37-C38-C39-C40
40	d1	412	LMT	C7-C8-C9-C10
40	dD	412	LMT	C7-C8-C9-C10
39	a1	410	LMG	C28-C29-C30-C31
39	aD	409	LMG	C28-C29-C30-C31
39	aE	409	LMG	C28-C29-C30-C31
33	oB	201	CYC	C2B-C3B-CAB-CBB
40	DD	412	LMT	C7-C8-C9-C10
40	DE	412	LMT	C7-C8-C9-C10
40	dE	412	LMT	C7-C8-C9-C10
36	BD	610	CLA	CBA-CGA-O2A-C1
36	BE	610	CLA	CBA-CGA-O2A-C1
36	B1	610	CLA	CBA-CGA-O2A-C1
36	b1	611	CLA	CBA-CGA-O2A-C1
36	bD	611	CLA	CBA-CGA-O2A-C1
36	bE	611	CLA	CBA-CGA-O2A-C1
33	TB	201	CYC	C3D-CAD-CBD-CGD
33	JF	201	CYC	C2C-C3C-CAC-CBC
33	RG	201	CYC	C2C-C3C-CAC-CBC
33	JK	201	CYC	C2C-C3C-CAC-CBC
33	RL	201	CYC	C2C-C3C-CAC-CBC
33	T4	201	CYC	C3D-CAD-CBD-CGD
33	o4	201	CYC	C3D-CAD-CBD-CGD
33	oB	201	CYC	C3D-CAD-CBD-CGD
33	nF	201	CYC	C2C-C3C-CAC-CBC
33	nK	201	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
36	HD	101	CLA	C2-C3-C5-C6
36	h1	101	CLA	C2-C3-C5-C6
36	hD	101	CLA	C2-C3-C5-C6
36	hE	101	CLA	C2-C3-C5-C6
33	o4	201	CYC	C2B-C3B-CAB-CBB
40	D1	411	LMT	C7-C8-C9-C10
36	c1	510	CLA	C10-C11-C12-C13
36	cD	510	CLA	C10-C11-C12-C13
36	cE	510	CLA	C10-C11-C12-C13
40	iE	103	LMT	O5'-C5'-C6'-O6'
39	TE	101	LMG	O10-C28-O8-C9
39	t1	101	LMG	O10-C28-O8-C9
39	tD	101	LMG	O10-C28-O8-C9
39	tE	101	LMG	O10-C28-O8-C9
36	c1	505	CLA	C2A-CAA-CBA-CGA
36	cD	506	CLA	C2A-CAA-CBA-CGA
36	cE	506	CLA	C2A-CAA-CBA-CGA
36	BD	608	CLA	C16-C17-C18-C20
36	BE	608	CLA	C16-C17-C18-C20
36	B1	608	CLA	C16-C17-C18-C20
36	c1	510	CLA	C16-C17-C18-C20
36	d1	403	CLA	C16-C17-C18-C20
36	cD	510	CLA	C16-C17-C18-C20
36	dD	403	CLA	C16-C17-C18-C20
36	cE	510	CLA	C16-C17-C18-C20
36	dE	403	CLA	C16-C17-C18-C20
40	i1	102	LMT	O5'-C5'-C6'-O6'
40	iD	103	LMT	O5'-C5'-C6'-O6'
40	j1	101	LMT	C1-C2-C3-C4
40	jD	101	LMT	C1-C2-C3-C4
40	jE	101	LMT	C1-C2-C3-C4
38	AD	407	SQD	C44-C45-C46-O48
38	AE	407	SQD	C44-C45-C46-O48
38	A1	407	SQD	C44-C45-C46-O48
39	a1	408	LMG	C7-C8-C9-O8
39	aD	407	LMG	C7-C8-C9-O8
39	aE	407	LMG	C7-C8-C9-O8
44	h1	104	DGD	O1G-C1G-C2G-C3G
44	hD	104	DGD	O1G-C1G-C2G-C3G
44	hE	104	DGD	O1G-C1G-C2G-C3G
33	AG	201	CYC	C4B-C3B-CAB-CBB
33	AL	201	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
39	JD	102	LMG	O6-C5-C6-O5
39	JE	102	LMG	O6-C5-C6-O5
39	J1	102	LMG	O6-C5-C6-O5
36	CD	505	CLA	C13-C15-C16-C17
36	CE	505	CLA	C13-C15-C16-C17
36	C1	505	CLA	C13-C15-C16-C17
36	aD	405	CLA	C5-C6-C7-C8
45	DE	401	PHO	C13-C15-C16-C17
36	BE	609	CLA	O1A-CGA-O2A-C1
36	bD	610	CLA	O1A-CGA-O2A-C1
36	bE	610	CLA	O1A-CGA-O2A-C1
39	TD	101	LMG	O10-C28-O8-C9
39	T1	101	LMG	O10-C28-O8-C9
44	CD	518	DGD	C5D-C6D-O5D-C1E
44	CE	518	DGD	C5D-C6D-O5D-C1E
44	C1	518	DGD	C5D-C6D-O5D-C1E
36	DD	405	CLA	O1D-CGD-O2D-CED
36	D1	404	CLA	O1D-CGD-O2D-CED
40	DD	412	LMT	C9-C10-C11-C12
40	DE	412	LMT	C9-C10-C11-C12
40	D1	411	LMT	C9-C10-C11-C12
40	d1	412	LMT	C9-C10-C11-C12
40	dD	412	LMT	C9-C10-C11-C12
40	dE	412	LMT	C9-C10-C11-C12
44	CD	518	DGD	CDA-CEA-CFA-CGA
44	HD	103	DGD	C6A-C7A-C8A-C9A
44	CE	518	DGD	CDA-CEA-CFA-CGA
44	HE	103	DGD	C6A-C7A-C8A-C9A
44	C1	518	DGD	CDA-CEA-CFA-CGA
44	H1	103	DGD	C6A-C7A-C8A-C9A
36	DE	405	CLA	O1D-CGD-O2D-CED
36	d1	405	CLA	O1D-CGD-O2D-CED
36	dE	405	CLA	O1D-CGD-O2D-CED
36	CD	511	CLA	C15-C16-C17-C18
36	HD	102	CLA	C10-C11-C12-C13
36	CE	511	CLA	C15-C16-C17-C18
36	HE	102	CLA	C10-C11-C12-C13
36	C1	511	CLA	C15-C16-C17-C18
36	H1	102	CLA	C10-C11-C12-C13
36	a1	406	CLA	C5-C6-C7-C8
36	h1	102	CLA	C10-C11-C12-C13
36	hD	102	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
36	aE	405	CLA	C5-C6-C7-C8
44	c1	518	DGD	C4E-C5E-C6E-O5E
44	cE	518	DGD	C4E-C5E-C6E-O5E
40	CD	522	LMT	C9-C10-C11-C12
40	B1	620	LMT	C9-C10-C11-C12
40	C1	521	LMT	C9-C10-C11-C12
40	cD	501	LMT	C9-C10-C11-C12
40	cE	501	LMT	C9-C10-C11-C12
36	dD	405	CLA	O1D-CGD-O2D-CED
36	BD	609	CLA	O1A-CGA-O2A-C1
36	B1	609	CLA	O1A-CGA-O2A-C1
36	b1	610	CLA	O1A-CGA-O2A-C1
40	bE	621	LMT	C9-C10-C11-C12
44	cD	518	DGD	C4E-C5E-C6E-O5E
40	BD	622	LMT	O5'-C1'-O1'-C1
40	BE	622	LMT	O5'-C1'-O1'-C1
40	a1	401	LMT	O5'-C1'-O1'-C1
45	dD	402	PHO	C5-C6-C7-C8
42	DD	410	LHG	O1-C1-C2-O2
42	DE	410	LHG	O1-C1-C2-O2
42	D1	409	LHG	O1-C1-C2-O2
42	d1	410	LHG	O1-C1-C2-O2
42	dD	410	LHG	O1-C1-C2-O2
42	dE	410	LHG	O1-C1-C2-O2
40	DD	413	LMT	C1-C2-C3-C4
40	DE	413	LMT	C1-C2-C3-C4
40	D1	412	LMT	C1-C2-C3-C4
36	hE	102	CLA	C10-C11-C12-C13
44	h1	104	DGD	CDB-CEB-CFB-CGB
44	hD	104	DGD	CDB-CEB-CFB-CGB
40	iE	103	LMT	C1-C2-C3-C4
44	hE	104	DGD	CDB-CEB-CFB-CGB
36	D1	405	CLA	C15-C16-C17-C18
36	d1	406	CLA	C15-C16-C17-C18
36	dD	406	CLA	C15-C16-C17-C18
36	dE	406	CLA	C15-C16-C17-C18
40	i1	102	LMT	C1-C2-C3-C4
36	CD	507	CLA	C4-C3-C5-C6
36	HD	101	CLA	C4-C3-C5-C6
36	CE	507	CLA	C4-C3-C5-C6
36	HE	101	CLA	C4-C3-C5-C6
36	C1	507	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
36	H1	101	CLA	C4-C3-C5-C6
36	c1	506	CLA	C4-C3-C5-C6
36	h1	101	CLA	C4-C3-C5-C6
36	hD	101	CLA	C4-C3-C5-C6
36	iD	101	CLA	C4-C3-C5-C6
36	hE	101	CLA	C4-C3-C5-C6
36	iE	101	CLA	C4-C3-C5-C6
37	a1	409	PL9	C12-C11-C9-C10
37	aD	408	PL9	C12-C11-C9-C10
37	aE	408	PL9	C12-C11-C9-C10
45	DD	401	PHO	C4-C3-C5-C6
45	a1	413	PHO	C4-C3-C5-C6
45	aE	412	PHO	C4-C3-C5-C6
36	HE	101	CLA	C2-C3-C5-C6
36	H1	101	CLA	C2-C3-C5-C6
36	c1	506	CLA	C2-C3-C5-C6
36	iD	101	CLA	C2-C3-C5-C6
36	iE	101	CLA	C2-C3-C5-C6
39	a1	410	LMG	C10-C11-C12-C13
39	aD	409	LMG	C10-C11-C12-C13
39	aE	409	LMG	C10-C11-C12-C13
42	AD	411	LHG	C26-C27-C28-C29
42	AE	411	LHG	C26-C27-C28-C29
42	A1	411	LHG	C26-C27-C28-C29
44	HD	103	DGD	CDB-CEB-CFB-CGB
44	HE	103	DGD	CDB-CEB-CFB-CGB
44	H1	103	DGD	CDB-CEB-CFB-CGB
36	BE	609	CLA	CBD-CGD-O2D-CED
36	b1	610	CLA	CBD-CGD-O2D-CED
36	bD	610	CLA	CBD-CGD-O2D-CED
36	bE	610	CLA	CBD-CGD-O2D-CED
36	BD	603	CLA	C8-C10-C11-C12
36	CD	511	CLA	C13-C15-C16-C17
36	DD	406	CLA	C15-C16-C17-C18
36	BE	603	CLA	C8-C10-C11-C12
36	CE	511	CLA	C13-C15-C16-C17
36	DE	406	CLA	C15-C16-C17-C18
36	B1	603	CLA	C8-C10-C11-C12
36	C1	511	CLA	C13-C15-C16-C17
36	b1	605	CLA	C8-C10-C11-C12
36	bD	605	CLA	C8-C10-C11-C12
36	bE	605	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
33	eF	201	CYC	C3A-C2A-CAA-CBA
33	eK	201	CYC	C3A-C2A-CAA-CBA
40	iD	103	LMT	C1-C2-C3-C4
39	TD	101	LMG	O6-C5-C6-O5
39	TE	101	LMG	O6-C5-C6-O5
39	T1	101	LMG	O6-C5-C6-O5
39	t1	101	LMG	O6-C5-C6-O5
39	tD	101	LMG	O6-C5-C6-O5
39	tE	101	LMG	O6-C5-C6-O5
36	BD	603	CLA	C13-C15-C16-C17
36	BE	603	CLA	C13-C15-C16-C17
36	B1	603	CLA	C13-C15-C16-C17
36	b1	605	CLA	C13-C15-C16-C17
36	c1	507	CLA	C8-C10-C11-C12
36	bD	605	CLA	C13-C15-C16-C17
36	bE	605	CLA	C13-C15-C16-C17
36	cD	511	CLA	C2-C1-O2A-CGA
36	cE	511	CLA	C2-C1-O2A-CGA
36	a1	407	CLA	C10-C11-C12-C13
36	aD	406	CLA	C10-C11-C12-C13
36	cD	507	CLA	C8-C10-C11-C12
36	aE	406	CLA	C10-C11-C12-C13
36	cE	507	CLA	C8-C10-C11-C12
36	BD	608	CLA	C16-C17-C18-C19
36	DD	406	CLA	C16-C17-C18-C19
36	BE	608	CLA	C16-C17-C18-C19
36	DE	406	CLA	C16-C17-C18-C19
36	B1	608	CLA	C16-C17-C18-C19
36	D1	405	CLA	C16-C17-C18-C19
36	d1	403	CLA	C16-C17-C18-C19
36	d1	406	CLA	C16-C17-C18-C19
36	dD	403	CLA	C16-C17-C18-C19
36	dD	406	CLA	C16-C17-C18-C19
36	dE	403	CLA	C16-C17-C18-C19
36	dE	406	CLA	C16-C17-C18-C19
36	B1	609	CLA	CBD-CGD-O2D-CED
33	v4	201	CYC	C2A-CAA-CBA-CGA
33	vB	201	CYC	C2A-CAA-CBA-CGA
36	BD	609	CLA	CBD-CGD-O2D-CED
36	CD	512	CLA	C10-C11-C12-C13
36	BE	611	CLA	C15-C16-C17-C18
36	CE	512	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
36	C1	512	CLA	C10-C11-C12-C13
38	c1	501	SQD	C2-C1-O6-C44
38	cD	502	SQD	C2-C1-O6-C44
38	cE	502	SQD	C2-C1-O6-C44
38	LD	101	SQD	O47-C45-C46-O48
38	LD	102	SQD	O47-C45-C46-O48
38	LE	101	SQD	O47-C45-C46-O48
38	LE	102	SQD	O47-C45-C46-O48
38	L1	101	SQD	O47-C45-C46-O48
38	L1	102	SQD	O47-C45-C46-O48
42	eE	101	LHG	C13-C14-C15-C16
36	BD	611	CLA	C15-C16-C17-C18
36	B1	611	CLA	C15-C16-C17-C18
36	b1	612	CLA	C15-C16-C17-C18
45	DD	401	PHO	CHA-CBD-CGD-O2D
45	DE	401	PHO	CHA-CBD-CGD-O1D
45	DE	401	PHO	CHA-CBD-CGD-O2D
45	A1	412	PHO	CHA-CBD-CGD-O1D
45	A1	412	PHO	CHA-CBD-CGD-O2D
45	a1	413	PHO	CHA-CBD-CGD-O1D
45	a1	413	PHO	CHA-CBD-CGD-O2D
45	aD	412	PHO	CHA-CBD-CGD-O1D
45	aD	412	PHO	CHA-CBD-CGD-O2D
45	dD	402	PHO	CHA-CBD-CGD-O2D
45	aE	412	PHO	CHA-CBD-CGD-O1D
45	aE	412	PHO	CHA-CBD-CGD-O2D
45	dE	402	PHO	CHA-CBD-CGD-O2D
42	e1	101	LHG	C13-C14-C15-C16
42	eD	101	LHG	C13-C14-C15-C16
36	bD	612	CLA	C15-C16-C17-C18
36	bE	612	CLA	C15-C16-C17-C18
36	BD	602	CLA	C6-C7-C8-C10
36	BD	607	CLA	C12-C13-C15-C16
36	BD	608	CLA	C11-C12-C13-C15
36	BD	610	CLA	C6-C7-C8-C10
36	BD	610	CLA	C12-C13-C15-C16
36	BD	611	CLA	C11-C10-C8-C7
36	BD	611	CLA	C12-C13-C15-C16
36	BD	612	CLA	C6-C7-C8-C10
36	BD	614	CLA	C12-C13-C15-C16
36	CD	512	CLA	C11-C10-C8-C7
36	CD	515	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
36	DD	406	CLA	C11-C10-C8-C7
36	XD	101	CLA	C11-C12-C13-C15
36	BE	602	CLA	C6-C7-C8-C10
36	BE	607	CLA	C12-C13-C15-C16
36	BE	608	CLA	C11-C12-C13-C15
36	BE	610	CLA	C6-C7-C8-C10
36	BE	610	CLA	C12-C13-C15-C16
36	BE	611	CLA	C11-C10-C8-C7
36	BE	611	CLA	C12-C13-C15-C16
36	BE	612	CLA	C6-C7-C8-C10
36	BE	614	CLA	C12-C13-C15-C16
36	CE	512	CLA	C11-C10-C8-C7
36	CE	515	CLA	C11-C10-C8-C7
36	DE	406	CLA	C11-C10-C8-C7
36	XE	101	CLA	C11-C12-C13-C15
36	B1	602	CLA	C6-C7-C8-C10
36	B1	607	CLA	C12-C13-C15-C16
36	B1	608	CLA	C11-C12-C13-C15
36	B1	610	CLA	C6-C7-C8-C10
36	B1	610	CLA	C12-C13-C15-C16
36	B1	611	CLA	C11-C10-C8-C7
36	B1	611	CLA	C12-C13-C15-C16
36	B1	612	CLA	C6-C7-C8-C10
36	B1	614	CLA	C12-C13-C15-C16
36	C1	512	CLA	C11-C10-C8-C7
36	C1	515	CLA	C11-C10-C8-C7
36	D1	405	CLA	C11-C10-C8-C7
36	X1	101	CLA	C11-C12-C13-C15
36	a1	406	CLA	C6-C7-C8-C10
36	a1	406	CLA	C11-C10-C8-C7
36	b1	609	CLA	C12-C13-C15-C16
36	b1	611	CLA	C6-C7-C8-C10
36	b1	611	CLA	C12-C13-C15-C16
36	b1	612	CLA	C11-C10-C8-C7
36	b1	612	CLA	C12-C13-C15-C16
36	b1	613	CLA	C6-C7-C8-C10
36	b1	615	CLA	C12-C13-C15-C16
36	c1	511	CLA	C11-C10-C8-C7
36	c1	514	CLA	C6-C7-C8-C10
36	d1	403	CLA	C11-C12-C13-C15
36	d1	406	CLA	C11-C10-C8-C7
36	x1	101	CLA	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
36	aD	405	CLA	C6-C7-C8-C10
36	aD	405	CLA	C11-C10-C8-C7
36	bD	609	CLA	C12-C13-C15-C16
36	bD	611	CLA	C6-C7-C8-C10
36	bD	611	CLA	C12-C13-C15-C16
36	bD	612	CLA	C11-C10-C8-C7
36	bD	612	CLA	C12-C13-C15-C16
36	bD	613	CLA	C6-C7-C8-C10
36	bD	615	CLA	C12-C13-C15-C16
36	cD	511	CLA	C11-C10-C8-C7
36	cD	514	CLA	C6-C7-C8-C10
36	dD	403	CLA	C11-C12-C13-C15
36	dD	406	CLA	C11-C10-C8-C7
36	xD	101	CLA	C11-C12-C13-C15
36	aE	405	CLA	C6-C7-C8-C10
36	aE	405	CLA	C11-C10-C8-C7
36	bE	609	CLA	C12-C13-C15-C16
36	bE	611	CLA	C6-C7-C8-C10
36	bE	611	CLA	C12-C13-C15-C16
36	bE	612	CLA	C11-C10-C8-C7
36	bE	612	CLA	C12-C13-C15-C16
36	bE	613	CLA	C6-C7-C8-C10
36	bE	615	CLA	C12-C13-C15-C16
36	cE	511	CLA	C11-C10-C8-C7
36	cE	514	CLA	C6-C7-C8-C10
36	dE	403	CLA	C11-C12-C13-C15
36	dE	406	CLA	C11-C10-C8-C7
36	xE	101	CLA	C11-C12-C13-C15
45	DD	401	PHO	C2-C3-C5-C6
45	DD	401	PHO	C6-C7-C8-C10
45	DD	401	PHO	C11-C12-C13-C15
45	DE	401	PHO	C6-C7-C8-C10
45	A1	412	PHO	C6-C7-C8-C10
45	d1	402	PHO	C6-C7-C8-C10
45	d1	402	PHO	C11-C10-C8-C7
45	aD	412	PHO	C6-C7-C8-C10
45	aD	412	PHO	C11-C12-C13-C15
44	cD	517	DGD	CDB-CEB-CFB-CGB
44	cE	517	DGD	CDB-CEB-CFB-CGB
36	BD	608	CLA	C11-C12-C13-C14
36	BD	608	CLA	C14-C13-C15-C16
36	BD	610	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
36	BD	610	CLA	C14-C13-C15-C16
36	BD	611	CLA	C11-C10-C8-C9
36	BD	611	CLA	C14-C13-C15-C16
36	BD	614	CLA	C14-C13-C15-C16
36	XD	101	CLA	C11-C10-C8-C9
36	XD	101	CLA	C11-C12-C13-C14
36	BE	608	CLA	C11-C12-C13-C14
36	BE	608	CLA	C14-C13-C15-C16
36	BE	610	CLA	C6-C7-C8-C9
36	BE	610	CLA	C14-C13-C15-C16
36	BE	611	CLA	C11-C10-C8-C9
36	BE	611	CLA	C14-C13-C15-C16
36	BE	614	CLA	C14-C13-C15-C16
36	XE	101	CLA	C11-C10-C8-C9
36	XE	101	CLA	C11-C12-C13-C14
36	B1	608	CLA	C11-C12-C13-C14
36	B1	608	CLA	C14-C13-C15-C16
36	B1	610	CLA	C6-C7-C8-C9
36	B1	610	CLA	C14-C13-C15-C16
36	B1	611	CLA	C11-C10-C8-C9
36	B1	611	CLA	C14-C13-C15-C16
36	B1	614	CLA	C14-C13-C15-C16
36	X1	101	CLA	C11-C10-C8-C9
36	X1	101	CLA	C11-C12-C13-C14
36	a1	406	CLA	C6-C7-C8-C9
36	a1	406	CLA	C11-C10-C8-C9
36	a1	407	CLA	C11-C10-C8-C9
36	b1	611	CLA	C6-C7-C8-C9
36	b1	611	CLA	C14-C13-C15-C16
36	b1	612	CLA	C11-C10-C8-C9
36	b1	612	CLA	C14-C13-C15-C16
36	b1	615	CLA	C14-C13-C15-C16
36	c1	512	CLA	C11-C12-C13-C14
36	d1	403	CLA	C11-C12-C13-C14
36	d1	403	CLA	C14-C13-C15-C16
36	x1	101	CLA	C11-C10-C8-C9
36	x1	101	CLA	C11-C12-C13-C14
36	aD	405	CLA	C6-C7-C8-C9
36	aD	405	CLA	C11-C10-C8-C9
36	aD	406	CLA	C11-C10-C8-C9
36	bD	611	CLA	C6-C7-C8-C9
36	bD	611	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
36	bD	612	CLA	C11-C10-C8-C9
36	bD	612	CLA	C14-C13-C15-C16
36	bD	615	CLA	C14-C13-C15-C16
36	cD	512	CLA	C11-C12-C13-C14
36	dD	403	CLA	C11-C12-C13-C14
36	dD	403	CLA	C14-C13-C15-C16
36	xD	101	CLA	C11-C10-C8-C9
36	xD	101	CLA	C11-C12-C13-C14
36	aE	405	CLA	C6-C7-C8-C9
36	aE	405	CLA	C11-C10-C8-C9
36	aE	406	CLA	C11-C10-C8-C9
36	bE	611	CLA	C6-C7-C8-C9
36	bE	611	CLA	C14-C13-C15-C16
36	bE	612	CLA	C11-C10-C8-C9
36	bE	612	CLA	C14-C13-C15-C16
36	bE	615	CLA	C14-C13-C15-C16
36	cE	512	CLA	C11-C12-C13-C14
36	dE	403	CLA	C11-C12-C13-C14
36	dE	403	CLA	C14-C13-C15-C16
36	xE	101	CLA	C11-C10-C8-C9
36	xE	101	CLA	C11-C12-C13-C14
45	DD	401	PHO	C11-C10-C8-C9
45	d1	402	PHO	C11-C12-C13-C14
45	dE	402	PHO	C6-C7-C8-C9
45	DD	401	PHO	CBD-CGD-O2D-CED
38	A1	407	SQD	C13-C14-C15-C16
44	c1	517	DGD	CDB-CEB-CFB-CGB
45	DD	401	PHO	C15-C16-C17-C18
38	AD	407	SQD	C13-C14-C15-C16
38	AE	407	SQD	C13-C14-C15-C16
36	DD	406	CLA	C16-C17-C18-C20
36	DE	406	CLA	C16-C17-C18-C20
36	D1	405	CLA	C16-C17-C18-C20
36	BD	604	CLA	C5-C6-C7-C8
36	BE	604	CLA	C5-C6-C7-C8
36	B1	604	CLA	C5-C6-C7-C8
36	b1	606	CLA	C5-C6-C7-C8
36	bD	606	CLA	C5-C6-C7-C8
36	bE	606	CLA	C5-C6-C7-C8
36	CD	515	CLA	CBA-CGA-O2A-C1
36	CE	515	CLA	CBA-CGA-O2A-C1
36	C1	515	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
44	h1	104	DGD	C8B-C9B-CAB-CBB
44	hD	104	DGD	C8B-C9B-CAB-CBB
44	hE	104	DGD	C8B-C9B-CAB-CBB
45	d1	402	PHO	C13-C15-C16-C17
39	a1	410	LMG	C29-C30-C31-C32
39	aD	409	LMG	C29-C30-C31-C32
36	CD	512	CLA	CBD-CGD-O2D-CED
39	yD	101	LMG	C32-C33-C34-C35
39	aE	409	LMG	C29-C30-C31-C32
39	yE	101	LMG	C32-C33-C34-C35
40	i1	102	LMT	C11-C10-C9-C8
40	iD	103	LMT	C11-C10-C9-C8
40	iE	103	LMT	C11-C10-C9-C8
36	d1	406	CLA	C16-C17-C18-C20
36	dD	406	CLA	C16-C17-C18-C20
36	dE	406	CLA	C16-C17-C18-C20
36	c1	504	CLA	C3-C5-C6-C7
36	cD	505	CLA	C3-C5-C6-C7
36	cE	505	CLA	C3-C5-C6-C7
37	a1	409	PL9	C39-C41-C42-C43
37	aD	408	PL9	C39-C41-C42-C43
37	aE	408	PL9	C39-C41-C42-C43
39	y1	101	LMG	C32-C33-C34-C35
39	yD	101	LMG	C20-C21-C22-C23
44	hD	104	DGD	CDA-CEA-CFA-CGA
44	hE	104	DGD	CDA-CEA-CFA-CGA
39	y1	101	LMG	C20-C21-C22-C23
39	yE	101	LMG	C20-C21-C22-C23
42	DD	409	LHG	C11-C10-C9-C8
42	DE	409	LHG	C11-C10-C9-C8
42	D1	408	LHG	C11-C10-C9-C8
44	h1	104	DGD	CDA-CEA-CFA-CGA
36	CD	510	CLA	CBA-CGA-O2A-C1
36	CE	510	CLA	CBA-CGA-O2A-C1
36	C1	506	CLA	CBA-CGA-O2A-C1
36	C1	510	CLA	CBA-CGA-O2A-C1
36	DD	406	CLA	C8-C10-C11-C12
36	DE	406	CLA	C8-C10-C11-C12
36	D1	405	CLA	C8-C10-C11-C12
36	d1	406	CLA	C8-C10-C11-C12
36	dD	406	CLA	C8-C10-C11-C12
36	dE	406	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
36	c1	503	CLA	O1D-CGD-O2D-CED
36	cE	504	CLA	O1D-CGD-O2D-CED
42	d1	409	LHG	C11-C10-C9-C8
42	dD	409	LHG	C11-C10-C9-C8
42	dE	409	LHG	C11-C10-C9-C8
37	a1	409	PL9	C35-C34-C36-C37
37	aD	408	PL9	C35-C34-C36-C37
37	aE	408	PL9	C35-C34-C36-C37
36	CD	507	CLA	C2-C3-C5-C6
36	CE	507	CLA	C2-C3-C5-C6
36	C1	507	CLA	C2-C3-C5-C6
45	a1	413	PHO	C2-C3-C5-C6
45	aE	412	PHO	C2-C3-C5-C6
36	cD	504	CLA	O1D-CGD-O2D-CED
36	C1	512	CLA	CBD-CGD-O2D-CED
36	BD	610	CLA	O1A-CGA-O2A-C1
36	BE	610	CLA	O1A-CGA-O2A-C1
36	B1	610	CLA	O1A-CGA-O2A-C1
36	b1	611	CLA	O1A-CGA-O2A-C1
36	bD	611	CLA	O1A-CGA-O2A-C1
36	bE	611	CLA	O1A-CGA-O2A-C1
39	T1	101	LMG	C12-C13-C14-C15
39	tD	101	LMG	C12-C13-C14-C15
39	TD	101	LMG	C12-C13-C14-C15
39	TE	101	LMG	C12-C13-C14-C15
39	t1	101	LMG	C12-C13-C14-C15
39	tE	101	LMG	C12-C13-C14-C15
40	j1	101	LMT	C11-C10-C9-C8
40	jD	101	LMT	C11-C10-C9-C8
40	jE	101	LMT	C11-C10-C9-C8
36	DD	405	CLA	C2A-CAA-CBA-CGA
36	DE	405	CLA	C2A-CAA-CBA-CGA
36	D1	404	CLA	C2A-CAA-CBA-CGA
36	d1	405	CLA	C2A-CAA-CBA-CGA
36	dD	405	CLA	C2A-CAA-CBA-CGA
36	dE	405	CLA	C2A-CAA-CBA-CGA
36	BD	607	CLA	CBA-CGA-O2A-C1
36	CD	506	CLA	CBA-CGA-O2A-C1
36	BE	607	CLA	CBA-CGA-O2A-C1
36	CE	506	CLA	CBA-CGA-O2A-C1
36	B1	607	CLA	CBA-CGA-O2A-C1
36	b1	609	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
36	bD	609	CLA	CBA-CGA-O2A-C1
36	bE	609	CLA	CBA-CGA-O2A-C1
45	DE	401	PHO	CBA-CGA-O2A-C1
45	A1	412	PHO	CBA-CGA-O2A-C1
45	aD	412	PHO	CBA-CGA-O2A-C1
36	CE	512	CLA	CBD-CGD-O2D-CED
36	CD	507	CLA	C3A-C2A-CAA-CBA
36	CE	507	CLA	C3A-C2A-CAA-CBA
36	C1	507	CLA	C3A-C2A-CAA-CBA
36	c1	506	CLA	C3A-C2A-CAA-CBA
36	c1	510	CLA	C3A-C2A-CAA-CBA
36	cD	510	CLA	C3A-C2A-CAA-CBA
36	iD	101	CLA	C3A-C2A-CAA-CBA
36	cE	510	CLA	C3A-C2A-CAA-CBA
36	iE	101	CLA	C3A-C2A-CAA-CBA
45	DE	401	PHO	C3A-C2A-CAA-CBA
45	aD	412	PHO	C3A-C2A-CAA-CBA
45	aE	412	PHO	C3A-C2A-CAA-CBA
40	AD	412	LMT	C4-C5-C6-C7
40	AE	412	LMT	C4-C5-C6-C7
40	A1	413	LMT	C4-C5-C6-C7
40	BD	622	LMT	C9-C10-C11-C12
40	BE	622	LMT	C9-C10-C11-C12
40	a1	401	LMT	C9-C10-C11-C12
40	b1	601	LMT	C11-C10-C9-C8
40	i1	102	LMT	O1'-C1-C2-C3
40	bD	601	LMT	C11-C10-C9-C8
40	iD	103	LMT	O1'-C1-C2-C3
40	bE	601	LMT	C11-C10-C9-C8
40	iE	103	LMT	O1'-C1-C2-C3
33	MG	201	CYC	C2A-CAA-CBA-CGA
33	OG	201	CYC	C2A-CAA-CBA-CGA
33	ML	201	CYC	C2A-CAA-CBA-CGA
33	OL	201	CYC	C2A-CAA-CBA-CGA
33	o4	201	CYC	C2A-CAA-CBA-CGA
33	oB	201	CYC	C2A-CAA-CBA-CGA
38	AD	407	SQD	O6-C44-C45-C46
38	BD	621	SQD	O6-C44-C45-C46
38	AE	407	SQD	O6-C44-C45-C46
38	BE	621	SQD	O6-C44-C45-C46
38	A1	407	SQD	O6-C44-C45-C46
38	B1	622	SQD	O6-C44-C45-C46

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Mol	Chain	Res	Type	Atoms
39	CD	502	LMG	C7-C8-C9-O8
39	DD	411	LMG	O1-C7-C8-C9
39	MD	101	LMG	O1-C7-C8-C9
39	CE	502	LMG	C7-C8-C9-O8
39	DE	411	LMG	O1-C7-C8-C9
39	ME	101	LMG	O1-C7-C8-C9
39	C1	502	LMG	C7-C8-C9-O8
39	D1	410	LMG	O1-C7-C8-C9
39	M1	101	LMG	O1-C7-C8-C9
39	d1	411	LMG	O1-C7-C8-C9
39	j1	102	LMG	C7-C8-C9-O8
39	m1	101	LMG	O1-C7-C8-C9
39	dD	411	LMG	O1-C7-C8-C9
39	jD	102	LMG	C7-C8-C9-O8
39	mD	101	LMG	O1-C7-C8-C9
39	dE	411	LMG	O1-C7-C8-C9
39	jE	102	LMG	C7-C8-C9-O8
39	mE	101	LMG	O1-C7-C8-C9
42	BD	620	LHG	C4-C5-C6-O8
42	BE	620	LHG	C4-C5-C6-O8
42	B1	621	LHG	C4-C5-C6-O8
42	l1	101	LHG	C4-C5-C6-O8
42	lD	101	LHG	C4-C5-C6-O8
42	lE	101	LHG	C4-C5-C6-O8
44	CD	517	DGD	O1G-C1G-C2G-C3G
44	CE	517	DGD	O1G-C1G-C2G-C3G
44	C1	517	DGD	O1G-C1G-C2G-C3G
44	c1	516	DGD	O1G-C1G-C2G-C3G
44	cD	516	DGD	O1G-C1G-C2G-C3G
44	cE	516	DGD	O1G-C1G-C2G-C3G
38	BD	621	SQD	O49-C7-O47-C45
38	BE	621	SQD	O49-C7-O47-C45
38	B1	622	SQD	O49-C7-O47-C45
40	d1	413	LMT	C4-C5-C6-C7
40	dD	413	LMT	C4-C5-C6-C7
40	dE	413	LMT	C4-C5-C6-C7
44	CD	518	DGD	CAB-CBB-CCB-CDB
44	CE	518	DGD	CAB-CBB-CCB-CDB
44	C1	518	DGD	CAB-CBB-CCB-CDB
37	AD	406	PL9	C30-C29-C31-C32
37	AE	406	PL9	C30-C29-C31-C32
37	A1	406	PL9	C30-C29-C31-C32

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Mol	Chain	Res	Type	Atoms
37	a1	409	PL9	C12-C11-C9-C8
37	aD	408	PL9	C12-C11-C9-C8
37	aE	408	PL9	C12-C11-C9-C8
33	B4	1004	CYC	C2B-C3B-CAB-CBB
39	CD	519	LMG	C20-C21-C22-C23
39	CE	519	LMG	C20-C21-C22-C23
39	C1	519	LMG	C20-C21-C22-C23
44	HD	103	DGD	C8B-C9B-CAB-CBB
44	HE	103	DGD	C8B-C9B-CAB-CBB
44	H1	103	DGD	C8B-C9B-CAB-CBB
38	AD	407	SQD	C11-C12-C13-C14
38	AE	407	SQD	C11-C12-C13-C14
38	A1	407	SQD	C11-C12-C13-C14
39	a1	408	LMG	C10-C11-C12-C13
39	aD	407	LMG	C10-C11-C12-C13
39	aE	407	LMG	C10-C11-C12-C13
42	d1	410	LHG	C7-C8-C9-C10
33	BB	1004	CYC	C2B-C3B-CAB-CBB
42	DE	410	LHG	C34-C35-C36-C37
42	D1	409	LHG	C34-C35-C36-C37
42	d1	410	LHG	C34-C35-C36-C37
42	DD	410	LHG	C34-C35-C36-C37
42	dD	410	LHG	C34-C35-C36-C37
42	dE	410	LHG	C34-C35-C36-C37
42	DD	410	LHG	C7-C8-C9-C10
42	DE	410	LHG	C7-C8-C9-C10
42	D1	409	LHG	C7-C8-C9-C10
42	dD	410	LHG	C7-C8-C9-C10
42	dE	410	LHG	C7-C8-C9-C10
40	BD	623	LMT	C1-C2-C3-C4
40	BE	623	LMT	C1-C2-C3-C4
40	B1	623	LMT	C1-C2-C3-C4
42	d1	409	LHG	C16-C17-C18-C19
42	dD	409	LHG	C16-C17-C18-C19
42	dE	409	LHG	C16-C17-C18-C19
36	CD	506	CLA	C13-C15-C16-C17
36	CE	506	CLA	C13-C15-C16-C17
36	C1	506	CLA	C13-C15-C16-C17
40	DD	412	LMT	C1-C2-C3-C4
40	DE	412	LMT	C1-C2-C3-C4
40	D1	411	LMT	C1-C2-C3-C4
42	DD	409	LHG	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
42	DE	409	LHG	C16-C17-C18-C19
42	D1	408	LHG	C16-C17-C18-C19
38	AD	407	SQD	O6-C44-C45-O47
38	AE	407	SQD	O6-C44-C45-O47
38	A1	407	SQD	O6-C44-C45-O47
39	MD	101	LMG	O1-C7-C8-O7
39	ME	101	LMG	O1-C7-C8-O7
39	j1	102	LMG	O7-C8-C9-O8
39	jD	102	LMG	O7-C8-C9-O8
39	jE	102	LMG	O7-C8-C9-O8
36	c1	504	CLA	C10-C11-C12-C13
36	cD	505	CLA	C10-C11-C12-C13
36	cE	505	CLA	C10-C11-C12-C13
39	AD	408	LMG	O8-C28-C29-C30
39	AE	408	LMG	O8-C28-C29-C30
39	A1	408	LMG	O8-C28-C29-C30
39	CD	519	LMG	C11-C12-C13-C14
39	CE	519	LMG	C11-C12-C13-C14
39	C1	519	LMG	C11-C12-C13-C14
40	DD	404	LMT	C4-C5-C6-C7
40	D1	403	LMT	C4-C5-C6-C7
40	d1	404	LMT	C4-C5-C6-C7
40	dD	404	LMT	C4-C5-C6-C7
45	DE	401	PHO	C16-C17-C18-C19
45	A1	412	PHO	C16-C17-C18-C19
45	aD	412	PHO	C16-C17-C18-C19
40	dE	412	LMT	C1-C2-C3-C4
38	AD	407	SQD	C16-C17-C18-C19
38	AE	407	SQD	C16-C17-C18-C19
38	A1	407	SQD	C16-C17-C18-C19
40	DE	404	LMT	C4-C5-C6-C7
40	dE	404	LMT	C4-C5-C6-C7
44	cE	517	DGD	C9B-CAB-CBB-CCB
36	CD	507	CLA	CBD-CGD-O2D-CED
36	CE	507	CLA	CBD-CGD-O2D-CED
37	DD	408	PL9	C29-C31-C32-C33
37	DE	408	PL9	C29-C31-C32-C33
37	D1	407	PL9	C29-C31-C32-C33
37	d1	408	PL9	C29-C31-C32-C33
37	dD	408	PL9	C29-C31-C32-C33
37	dE	408	PL9	C29-C31-C32-C33
40	AD	412	LMT	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
40	AE	412	LMT	C5-C6-C7-C8
42	D1	408	LHG	C28-C29-C30-C31
44	c1	517	DGD	C9B-CAB-CBB-CCB
44	cD	517	DGD	C9B-CAB-CBB-CCB
40	dD	412	LMT	C1-C2-C3-C4
36	CD	506	CLA	C2-C1-O2A-CGA
36	CE	506	CLA	C2-C1-O2A-CGA
36	C1	506	CLA	C2-C1-O2A-CGA
36	c1	511	CLA	C2-C1-O2A-CGA
36	c1	514	CLA	C2-C1-O2A-CGA
36	cD	514	CLA	C2-C1-O2A-CGA
36	cE	514	CLA	C2-C1-O2A-CGA
45	DE	401	PHO	C2-C1-O2A-CGA
45	A1	412	PHO	C2-C1-O2A-CGA
45	aD	412	PHO	C2-C1-O2A-CGA
40	A1	413	LMT	C5-C6-C7-C8
42	DD	409	LHG	C28-C29-C30-C31
42	DE	409	LHG	C28-C29-C30-C31
42	d1	409	LHG	C28-C29-C30-C31
36	BD	609	CLA	C11-C12-C13-C14
36	BD	609	CLA	C14-C13-C15-C16
36	BD	611	CLA	C6-C7-C8-C9
36	CD	513	CLA	C11-C12-C13-C14
36	BE	609	CLA	C11-C12-C13-C14
36	BE	609	CLA	C14-C13-C15-C16
36	BE	611	CLA	C6-C7-C8-C9
36	CE	513	CLA	C11-C12-C13-C14
36	B1	609	CLA	C11-C12-C13-C14
36	B1	609	CLA	C14-C13-C15-C16
36	B1	611	CLA	C6-C7-C8-C9
36	C1	513	CLA	C11-C12-C13-C14
36	b1	610	CLA	C11-C12-C13-C14
36	b1	610	CLA	C14-C13-C15-C16
36	b1	612	CLA	C6-C7-C8-C9
36	bD	610	CLA	C11-C12-C13-C14
36	bD	610	CLA	C14-C13-C15-C16
36	bD	612	CLA	C6-C7-C8-C9
36	bE	610	CLA	C11-C12-C13-C14
36	bE	610	CLA	C14-C13-C15-C16
36	bE	612	CLA	C6-C7-C8-C9
45	D1	402	PHO	C11-C12-C13-C14
45	d1	402	PHO	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
42	dD	409	LHG	C28-C29-C30-C31
42	dE	409	LHG	C28-C29-C30-C31
44	c1	518	DGD	C6A-C7A-C8A-C9A
44	cE	518	DGD	C6A-C7A-C8A-C9A
40	d1	412	LMT	C1-C2-C3-C4
36	C1	507	CLA	CBD-CGD-O2D-CED
33	QB	201	CYC	C2B-C3B-CAB-CBB
40	j1	101	LMT	C6-C7-C8-C9
40	jD	101	LMT	C6-C7-C8-C9
40	jE	101	LMT	C6-C7-C8-C9
44	cD	518	DGD	C6A-C7A-C8A-C9A
36	c1	504	CLA	C13-C15-C16-C17
36	cD	505	CLA	C13-C15-C16-C17
36	cE	505	CLA	C13-C15-C16-C17
36	CD	506	CLA	O1A-CGA-O2A-C1
36	CE	506	CLA	O1A-CGA-O2A-C1
36	C1	506	CLA	O1A-CGA-O2A-C1
33	Q4	201	CYC	C2B-C3B-CAB-CBB
39	B1	618	LMG	C29-C30-C31-C32
40	j1	101	LMT	O1'-C1-C2-C3
45	D1	402	PHO	C2A-CAA-CBA-CGA
36	B1	605	CLA	C3-C5-C6-C7
43	BD	615	BCR	C5-C6-C7-C8
43	ZD	101	BCR	C1-C6-C7-C8
43	ZD	101	BCR	C5-C6-C7-C8
43	BE	615	BCR	C5-C6-C7-C8
43	ZE	101	BCR	C1-C6-C7-C8
43	ZE	101	BCR	C5-C6-C7-C8
43	B1	615	BCR	C5-C6-C7-C8
43	Z1	101	BCR	C1-C6-C7-C8
43	Z1	101	BCR	C5-C6-C7-C8
43	b1	616	BCR	C5-C6-C7-C8
43	c1	515	BCR	C1-C6-C7-C8
43	z1	101	BCR	C1-C6-C7-C8
43	z1	101	BCR	C5-C6-C7-C8
43	bD	616	BCR	C5-C6-C7-C8
43	cD	515	BCR	C1-C6-C7-C8
43	zD	101	BCR	C1-C6-C7-C8
43	zD	101	BCR	C5-C6-C7-C8
43	bE	616	BCR	C5-C6-C7-C8
43	cE	515	BCR	C1-C6-C7-C8
43	zE	101	BCR	C1-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
43	zE	101	BCR	C5-C6-C7-C8
38	c1	501	SQD	C18-C19-C20-C21
38	cD	502	SQD	C18-C19-C20-C21
38	cE	502	SQD	C18-C19-C20-C21
39	BD	618	LMG	C29-C30-C31-C32
39	BE	618	LMG	C29-C30-C31-C32
39	b1	619	LMG	C29-C30-C31-C32
39	bD	619	LMG	C29-C30-C31-C32
39	aE	407	LMG	C29-C30-C31-C32
39	bE	619	LMG	C29-C30-C31-C32
40	jD	101	LMT	O1'-C1-C2-C3
40	jE	101	LMT	O1'-C1-C2-C3
39	BD	618	LMG	C4-C5-C6-O5
39	BE	618	LMG	C4-C5-C6-O5
39	B1	618	LMG	C4-C5-C6-O5
39	b1	619	LMG	C4-C5-C6-O5
39	a1	408	LMG	C29-C30-C31-C32
39	aD	407	LMG	C29-C30-C31-C32
33	BB	1004	CYC	C4C-C3C-CAC-CBC
33	KF	201	CYC	C4C-C3C-CAC-CBC
33	KK	201	CYC	C4C-C3C-CAC-CBC
33	b4	101	CYC	C4C-C3C-CAC-CBC
33	B4	1004	CYC	C4C-C3C-CAC-CBC
33	bB	101	CYC	C4C-C3C-CAC-CBC
33	1G	201	CYC	C4C-C3C-CAC-CBC
33	1L	201	CYC	C4C-C3C-CAC-CBC
39	bD	619	LMG	C4-C5-C6-O5
39	bE	619	LMG	C4-C5-C6-O5
33	9F	201	CYC	C2A-CAA-CBA-CGA
33	2G	101	CYC	C2A-CAA-CBA-CGA
33	9K	201	CYC	C2A-CAA-CBA-CGA
33	2L	101	CYC	C2A-CAA-CBA-CGA
39	yE	101	LMG	C21-C22-C23-C24
36	BD	605	CLA	C3-C5-C6-C7
36	BE	605	CLA	C3-C5-C6-C7
36	b1	607	CLA	C3-C5-C6-C7
36	bD	607	CLA	C3-C5-C6-C7
36	bE	607	CLA	C3-C5-C6-C7
39	y1	101	LMG	C21-C22-C23-C24
39	yD	101	LMG	C21-C22-C23-C24
44	c1	516	DGD	C4A-C5A-C6A-C7A
44	cD	516	DGD	C4A-C5A-C6A-C7A

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Mol	Chain	Res	Type	Atoms
44	cE	516	DGD	C4A-C5A-C6A-C7A
36	BD	603	CLA	C15-C16-C17-C18
36	BE	603	CLA	C15-C16-C17-C18
36	B1	603	CLA	C15-C16-C17-C18
36	b1	605	CLA	C15-C16-C17-C18
36	bD	605	CLA	C15-C16-C17-C18
36	bE	605	CLA	C15-C16-C17-C18
36	CD	510	CLA	O1A-CGA-O2A-C1
36	CD	515	CLA	O1A-CGA-O2A-C1
36	CE	510	CLA	O1A-CGA-O2A-C1
36	CE	515	CLA	O1A-CGA-O2A-C1
36	C1	510	CLA	O1A-CGA-O2A-C1
36	C1	515	CLA	O1A-CGA-O2A-C1
36	b1	610	CLA	O1D-CGD-O2D-CED
40	cD	501	LMT	C3-C4-C5-C6
36	AD	405	CLA	C11-C10-C8-C7
36	BD	604	CLA	C11-C12-C13-C15
36	BD	606	CLA	C6-C7-C8-C10
36	BD	608	CLA	C11-C10-C8-C7
36	BD	608	CLA	C12-C13-C15-C16
36	BD	609	CLA	C12-C13-C15-C16
36	CD	510	CLA	C11-C12-C13-C15
36	CD	513	CLA	C11-C12-C13-C15
36	CD	513	CLA	C12-C13-C15-C16
36	XD	101	CLA	C11-C10-C8-C7
36	AE	405	CLA	C11-C10-C8-C7
36	BE	604	CLA	C11-C12-C13-C15
36	BE	606	CLA	C6-C7-C8-C10
36	BE	608	CLA	C11-C10-C8-C7
36	BE	608	CLA	C12-C13-C15-C16
36	BE	609	CLA	C12-C13-C15-C16
36	CE	510	CLA	C11-C12-C13-C15
36	CE	513	CLA	C11-C12-C13-C15
36	CE	513	CLA	C12-C13-C15-C16
36	XE	101	CLA	C11-C10-C8-C7
36	A1	405	CLA	C11-C10-C8-C7
36	B1	604	CLA	C11-C12-C13-C15
36	B1	606	CLA	C6-C7-C8-C10
36	B1	608	CLA	C11-C10-C8-C7
36	B1	608	CLA	C12-C13-C15-C16
36	B1	609	CLA	C12-C13-C15-C16
36	C1	510	CLA	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
36	C1	513	CLA	C11-C12-C13-C15
36	C1	513	CLA	C12-C13-C15-C16
36	X1	101	CLA	C11-C10-C8-C7
36	a1	407	CLA	C11-C10-C8-C7
36	b1	606	CLA	C11-C12-C13-C15
36	b1	608	CLA	C6-C7-C8-C10
36	b1	610	CLA	C12-C13-C15-C16
36	c1	509	CLA	C11-C12-C13-C15
36	c1	512	CLA	C11-C12-C13-C15
36	c1	514	CLA	C11-C10-C8-C7
36	d1	403	CLA	C11-C10-C8-C7
36	d1	403	CLA	C12-C13-C15-C16
36	x1	101	CLA	C11-C10-C8-C7
36	aD	406	CLA	C11-C10-C8-C7
36	bD	606	CLA	C11-C12-C13-C15
36	bD	608	CLA	C6-C7-C8-C10
36	bD	610	CLA	C12-C13-C15-C16
36	cD	509	CLA	C11-C12-C13-C15
36	cD	512	CLA	C11-C12-C13-C15
36	cD	514	CLA	C11-C10-C8-C7
36	dD	403	CLA	C11-C10-C8-C7
36	dD	403	CLA	C12-C13-C15-C16
36	xD	101	CLA	C11-C10-C8-C7
36	aE	406	CLA	C11-C10-C8-C7
36	bE	606	CLA	C11-C12-C13-C15
36	bE	608	CLA	C6-C7-C8-C10
36	bE	610	CLA	C12-C13-C15-C16
36	cE	509	CLA	C11-C12-C13-C15
36	cE	512	CLA	C11-C12-C13-C15
36	cE	514	CLA	C11-C10-C8-C7
36	dE	403	CLA	C11-C10-C8-C7
36	dE	403	CLA	C12-C13-C15-C16
36	xE	101	CLA	C11-C10-C8-C7
37	AD	406	PL9	C28-C29-C31-C32
37	AE	406	PL9	C28-C29-C31-C32
37	A1	406	PL9	C28-C29-C31-C32
45	DE	403	PHO	C11-C10-C8-C7
45	A1	412	PHO	C11-C12-C13-C15
45	aE	412	PHO	C6-C7-C8-C10
45	dE	402	PHO	C6-C7-C8-C10
40	A1	413	LMT	C1-C2-C3-C4
40	CD	522	LMT	C3-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
40	B1	620	LMT	C3-C4-C5-C6
40	C1	521	LMT	C3-C4-C5-C6
40	bE	621	LMT	C3-C4-C5-C6
40	cE	501	LMT	C3-C4-C5-C6
43	CD	520	BCR	C9-C10-C11-C12
43	CE	520	BCR	C9-C10-C11-C12
43	C1	520	BCR	C9-C10-C11-C12
43	c1	515	BCR	C13-C14-C15-C16
43	c1	519	BCR	C9-C10-C11-C12
43	c1	519	BCR	C15-C16-C17-C18
43	c1	519	BCR	C19-C20-C21-C22
43	cD	515	BCR	C13-C14-C15-C16
43	cD	519	BCR	C9-C10-C11-C12
43	cD	519	BCR	C15-C16-C17-C18
43	cD	519	BCR	C19-C20-C21-C22
43	cE	515	BCR	C13-C14-C15-C16
43	cE	519	BCR	C9-C10-C11-C12
43	cE	519	BCR	C15-C16-C17-C18
43	cE	519	BCR	C19-C20-C21-C22
45	A1	412	PHO	C16-C17-C18-C20
40	AD	412	LMT	C1-C2-C3-C4
44	cD	518	DGD	C5B-C6B-C7B-C8B
44	cE	518	DGD	C5B-C6B-C7B-C8B
36	bD	610	CLA	O1D-CGD-O2D-CED
36	bE	610	CLA	O1D-CGD-O2D-CED
36	CD	507	CLA	C5-C6-C7-C8
36	CE	507	CLA	C5-C6-C7-C8
36	C1	507	CLA	C5-C6-C7-C8
40	AE	412	LMT	C1-C2-C3-C4
36	BD	601	CLA	C2A-CAA-CBA-CGA
36	BE	601	CLA	C2A-CAA-CBA-CGA
36	B1	601	CLA	C2A-CAA-CBA-CGA
36	b1	603	CLA	C2A-CAA-CBA-CGA
36	bD	603	CLA	C2A-CAA-CBA-CGA
36	bE	603	CLA	C2A-CAA-CBA-CGA
44	c1	518	DGD	C5B-C6B-C7B-C8B
36	CD	508	CLA	C3-C5-C6-C7
36	CE	508	CLA	C3-C5-C6-C7
36	C1	508	CLA	C3-C5-C6-C7
42	DE	410	LHG	C28-C29-C30-C31
44	h1	104	DGD	C7A-C8A-C9A-CAA
44	hD	104	DGD	C7A-C8A-C9A-CAA

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Mol	Chain	Res	Type	Atoms
44	hE	104	DGD	C7A-C8A-C9A-CAA
45	DE	401	PHO	C16-C17-C18-C20
45	aD	412	PHO	C16-C17-C18-C20
36	d1	406	CLA	CBA-CGA-O2A-C1
36	dD	406	CLA	CBA-CGA-O2A-C1
36	dE	406	CLA	CBA-CGA-O2A-C1
42	DD	410	LHG	C28-C29-C30-C31
42	D1	409	LHG	C28-C29-C30-C31
42	d1	410	LHG	C28-C29-C30-C31
42	dD	410	LHG	C28-C29-C30-C31
42	dE	410	LHG	C28-C29-C30-C31
36	B1	609	CLA	O1D-CGD-O2D-CED
36	b1	614	CLA	C8-C10-C11-C12
36	bD	614	CLA	C8-C10-C11-C12
36	bE	614	CLA	C8-C10-C11-C12
45	a1	413	PHO	C5-C6-C7-C8
36	AD	405	CLA	CAD-CBD-CGD-O2D
36	BD	601	CLA	CAD-CBD-CGD-O2D
36	BD	606	CLA	CAD-CBD-CGD-O2D
36	BD	612	CLA	CAD-CBD-CGD-O2D
36	ID	101	CLA	CAD-CBD-CGD-O2D
36	AE	405	CLA	CAD-CBD-CGD-O2D
36	BE	601	CLA	CAD-CBD-CGD-O2D
36	BE	606	CLA	CAD-CBD-CGD-O2D
36	BE	612	CLA	CAD-CBD-CGD-O2D
36	IE	101	CLA	CAD-CBD-CGD-O2D
36	A1	405	CLA	CAD-CBD-CGD-O2D
36	B1	601	CLA	CAD-CBD-CGD-O2D
36	B1	606	CLA	CAD-CBD-CGD-O2D
36	B1	612	CLA	CAD-CBD-CGD-O2D
36	I1	101	CLA	CAD-CBD-CGD-O2D
36	a1	407	CLA	CAD-CBD-CGD-O2D
36	b1	603	CLA	CAD-CBD-CGD-O2D
36	b1	608	CLA	CAD-CBD-CGD-O2D
36	b1	613	CLA	CAD-CBD-CGD-O2D
36	c1	513	CLA	CAD-CBD-CGD-O2D
36	aD	406	CLA	CAD-CBD-CGD-O2D
36	bD	603	CLA	CAD-CBD-CGD-O2D
36	bD	608	CLA	CAD-CBD-CGD-O2D
36	bD	613	CLA	CAD-CBD-CGD-O2D
36	cD	513	CLA	CAD-CBD-CGD-O2D
36	aE	406	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
36	bE	603	CLA	CAD-CBD-CGD-O2D
36	bE	608	CLA	CAD-CBD-CGD-O2D
36	bE	613	CLA	CAD-CBD-CGD-O2D
36	cE	513	CLA	CAD-CBD-CGD-O2D
36	BD	613	CLA	C8-C10-C11-C12
36	BE	613	CLA	C8-C10-C11-C12
36	B1	613	CLA	C8-C10-C11-C12
36	DD	406	CLA	CBA-CGA-O2A-C1
36	DE	406	CLA	CBA-CGA-O2A-C1
36	D1	405	CLA	CBA-CGA-O2A-C1
36	BE	609	CLA	O1D-CGD-O2D-CED
36	c1	510	CLA	C4-C3-C5-C6
36	cD	510	CLA	C4-C3-C5-C6
36	cE	510	CLA	C4-C3-C5-C6
38	c1	501	SQD	O5-C1-O6-C44
39	MD	101	LMG	O6-C1-O1-C7
39	ME	101	LMG	O6-C1-O1-C7
39	M1	101	LMG	O6-C1-O1-C7
39	m1	101	LMG	O6-C1-O1-C7
39	mD	101	LMG	O6-C1-O1-C7
39	mE	101	LMG	O6-C1-O1-C7
44	CD	517	DGD	O6D-C1D-O3G-C3G
44	CE	517	DGD	O6D-C1D-O3G-C3G
44	C1	517	DGD	O6D-C1D-O3G-C3G
36	CD	511	CLA	C2-C3-C5-C6
36	CE	511	CLA	C2-C3-C5-C6
36	C1	511	CLA	C2-C3-C5-C6
38	LD	101	SQD	C44-C45-C46-O48
38	LD	102	SQD	C44-C45-C46-O48
38	LE	101	SQD	C44-C45-C46-O48
38	LE	102	SQD	C44-C45-C46-O48
38	L1	101	SQD	C44-C45-C46-O48
38	L1	102	SQD	C44-C45-C46-O48
38	c1	501	SQD	O6-C44-C45-C46
38	cD	502	SQD	O6-C44-C45-C46
38	cE	502	SQD	O6-C44-C45-C46
39	AD	408	LMG	C7-C8-C9-O8
39	AE	408	LMG	C7-C8-C9-O8
39	A1	408	LMG	C7-C8-C9-O8
44	HD	103	DGD	O1G-C1G-C2G-C3G
44	HE	103	DGD	O1G-C1G-C2G-C3G
44	H1	103	DGD	O1G-C1G-C2G-C3G

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Mol	Chain	Res	Type	Atoms
36	CD	503	CLA	C13-C15-C16-C17
36	CE	503	CLA	C13-C15-C16-C17
36	C1	503	CLA	C13-C15-C16-C17
36	BD	603	CLA	C3-C5-C6-C7
36	BE	603	CLA	C3-C5-C6-C7
36	b1	605	CLA	C3-C5-C6-C7
36	bE	605	CLA	C3-C5-C6-C7
33	aF	201	CYC	C4B-C3B-CAB-CBB
33	fF	201	CYC	C4B-C3B-CAB-CBB
33	jF	201	CYC	C4B-C3B-CAB-CBB
33	aK	201	CYC	C4B-C3B-CAB-CBB
33	fK	201	CYC	C4B-C3B-CAB-CBB
33	jK	201	CYC	C4B-C3B-CAB-CBB
36	BD	609	CLA	O1D-CGD-O2D-CED
36	CD	504	CLA	CBA-CGA-O2A-C1
36	CE	504	CLA	CBA-CGA-O2A-C1
42	DD	410	LHG	O2-C2-C3-O3
42	DE	410	LHG	O2-C2-C3-O3
42	D1	409	LHG	O2-C2-C3-O3
42	d1	410	LHG	O2-C2-C3-O3
42	dD	410	LHG	O2-C2-C3-O3
42	dE	410	LHG	O2-C2-C3-O3
36	BD	602	CLA	CHA-CBD-CGD-O1D
36	BD	603	CLA	CHA-CBD-CGD-O1D
36	BD	604	CLA	CHA-CBD-CGD-O1D
36	BD	604	CLA	CHA-CBD-CGD-O2D
36	BD	608	CLA	CHA-CBD-CGD-O1D
36	BD	610	CLA	CHA-CBD-CGD-O1D
36	BD	610	CLA	CHA-CBD-CGD-O2D
36	CD	503	CLA	CHA-CBD-CGD-O1D
36	CD	503	CLA	CHA-CBD-CGD-O2D
36	CD	510	CLA	CHA-CBD-CGD-O1D
36	CD	510	CLA	CHA-CBD-CGD-O2D
36	BE	602	CLA	CHA-CBD-CGD-O1D
36	BE	603	CLA	CHA-CBD-CGD-O1D
36	BE	604	CLA	CHA-CBD-CGD-O1D
36	BE	604	CLA	CHA-CBD-CGD-O2D
36	BE	608	CLA	CHA-CBD-CGD-O1D
36	BE	610	CLA	CHA-CBD-CGD-O1D
36	BE	610	CLA	CHA-CBD-CGD-O2D
36	CE	503	CLA	CHA-CBD-CGD-O1D
36	CE	503	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
36	CE	510	CLA	CHA-CBD-CGD-O1D
36	CE	510	CLA	CHA-CBD-CGD-O2D
36	B1	602	CLA	CHA-CBD-CGD-O1D
36	B1	603	CLA	CHA-CBD-CGD-O1D
36	B1	604	CLA	CHA-CBD-CGD-O1D
36	B1	604	CLA	CHA-CBD-CGD-O2D
36	B1	610	CLA	CHA-CBD-CGD-O1D
36	B1	610	CLA	CHA-CBD-CGD-O2D
36	C1	503	CLA	CHA-CBD-CGD-O1D
36	C1	503	CLA	CHA-CBD-CGD-O2D
36	C1	510	CLA	CHA-CBD-CGD-O1D
36	C1	510	CLA	CHA-CBD-CGD-O2D
36	b1	604	CLA	CHA-CBD-CGD-O1D
36	b1	606	CLA	CHA-CBD-CGD-O1D
36	b1	606	CLA	CHA-CBD-CGD-O2D
36	b1	611	CLA	CHA-CBD-CGD-O1D
36	b1	611	CLA	CHA-CBD-CGD-O2D
36	c1	510	CLA	CHA-CBD-CGD-O1D
36	c1	511	CLA	CHA-CBD-CGD-O1D
36	bD	604	CLA	CHA-CBD-CGD-O1D
36	bD	606	CLA	CHA-CBD-CGD-O1D
36	bD	606	CLA	CHA-CBD-CGD-O2D
36	bD	611	CLA	CHA-CBD-CGD-O1D
36	bD	611	CLA	CHA-CBD-CGD-O2D
36	cD	510	CLA	CHA-CBD-CGD-O1D
36	cD	511	CLA	CHA-CBD-CGD-O1D
36	bE	604	CLA	CHA-CBD-CGD-O1D
36	bE	606	CLA	CHA-CBD-CGD-O1D
36	bE	606	CLA	CHA-CBD-CGD-O2D
36	bE	611	CLA	CHA-CBD-CGD-O1D
36	bE	611	CLA	CHA-CBD-CGD-O2D
36	cE	510	CLA	CHA-CBD-CGD-O1D
36	cE	511	CLA	CHA-CBD-CGD-O1D
36	B1	603	CLA	C3-C5-C6-C7
36	bD	605	CLA	C3-C5-C6-C7
39	MD	101	LMG	C2-C1-O1-C7
39	ME	101	LMG	C2-C1-O1-C7
39	M1	101	LMG	C2-C1-O1-C7
39	m1	101	LMG	C2-C1-O1-C7
39	mD	101	LMG	C2-C1-O1-C7
39	mE	101	LMG	C2-C1-O1-C7
38	BD	621	SQD	O47-C45-C46-O48

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Mol	Chain	Res	Type	Atoms
38	BE	621	SQD	O47-C45-C46-O48
38	B1	622	SQD	O47-C45-C46-O48
39	M1	101	LMG	O1-C7-C8-O7
39	m1	101	LMG	O1-C7-C8-O7
39	mD	101	LMG	O1-C7-C8-O7
39	mE	101	LMG	O1-C7-C8-O7
42	BD	620	LHG	O7-C5-C6-O8
42	BE	620	LHG	O7-C5-C6-O8
42	B1	621	LHG	O7-C5-C6-O8
42	l1	101	LHG	O7-C5-C6-O8
42	lD	101	LHG	O7-C5-C6-O8
42	lE	101	LHG	O7-C5-C6-O8
36	C1	504	CLA	CBA-CGA-O2A-C1
39	CD	519	LMG	C31-C32-C33-C34
39	CE	519	LMG	C31-C32-C33-C34
39	C1	519	LMG	C31-C32-C33-C34
39	D1	410	LMG	C29-C30-C31-C32
39	d1	411	LMG	C29-C30-C31-C32
39	dD	411	LMG	C29-C30-C31-C32
39	dE	411	LMG	C29-C30-C31-C32
36	XE	101	CLA	C15-C16-C17-C18
36	X1	101	CLA	C15-C16-C17-C18
36	xD	101	CLA	C15-C16-C17-C18
36	CD	511	CLA	C4-C3-C5-C6
36	CE	511	CLA	C4-C3-C5-C6
36	C1	511	CLA	C4-C3-C5-C6
36	c1	511	CLA	C4-C3-C5-C6
36	cD	511	CLA	C4-C3-C5-C6
36	cE	511	CLA	C4-C3-C5-C6
39	DD	411	LMG	C29-C30-C31-C32
39	DE	411	LMG	C29-C30-C31-C32
36	BD	607	CLA	O1A-CGA-O2A-C1
36	BE	607	CLA	O1A-CGA-O2A-C1
36	B1	607	CLA	O1A-CGA-O2A-C1
36	b1	609	CLA	O1A-CGA-O2A-C1
36	bD	609	CLA	O1A-CGA-O2A-C1
36	bE	609	CLA	O1A-CGA-O2A-C1
45	DE	401	PHO	O1A-CGA-O2A-C1
45	A1	412	PHO	O1A-CGA-O2A-C1
45	aD	412	PHO	O1A-CGA-O2A-C1
36	c1	510	CLA	C2-C3-C5-C6
36	cD	510	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
36	cE	510	CLA	C2-C3-C5-C6
33	w4	201	CYC	C2B-C3B-CAB-CBB
36	XD	101	CLA	C15-C16-C17-C18
36	x1	101	CLA	C15-C16-C17-C18
36	xE	101	CLA	C15-C16-C17-C18
36	BD	606	CLA	C6-C7-C8-C9
36	BE	606	CLA	C6-C7-C8-C9
36	B1	606	CLA	C6-C7-C8-C9
36	b1	608	CLA	C6-C7-C8-C9
36	c1	507	CLA	C14-C13-C15-C16
36	c1	509	CLA	C11-C12-C13-C14
36	bD	608	CLA	C6-C7-C8-C9
36	cD	507	CLA	C14-C13-C15-C16
36	cD	509	CLA	C11-C12-C13-C14
36	bE	608	CLA	C6-C7-C8-C9
36	cE	507	CLA	C14-C13-C15-C16
36	cE	509	CLA	C11-C12-C13-C14
45	DE	403	PHO	C11-C12-C13-C14
44	JE	101	DGD	CCA-CDA-CEA-CFA
36	CD	504	CLA	O1A-CGA-O2A-C1
36	C1	504	CLA	O1A-CGA-O2A-C1
33	wB	201	CYC	C2B-C3B-CAB-CBB
44	JD	101	DGD	CCA-CDA-CEA-CFA
44	J1	101	DGD	CCA-CDA-CEA-CFA
36	BD	604	CLA	C15-C16-C17-C18
36	BD	611	CLA	C8-C10-C11-C12
36	BE	604	CLA	C15-C16-C17-C18
36	BE	611	CLA	C8-C10-C11-C12
36	B1	604	CLA	C15-C16-C17-C18
36	B1	611	CLA	C8-C10-C11-C12
36	b1	606	CLA	C15-C16-C17-C18
36	b1	612	CLA	C8-C10-C11-C12
36	bD	606	CLA	C15-C16-C17-C18
36	bD	612	CLA	C8-C10-C11-C12
36	bE	606	CLA	C15-C16-C17-C18
36	bE	612	CLA	C8-C10-C11-C12
38	BD	621	SQD	C4-C5-C6-S
38	BE	621	SQD	C4-C5-C6-S
38	B1	622	SQD	C4-C5-C6-S
36	AD	404	CLA	C2A-CAA-CBA-CGA
36	AE	404	CLA	C2A-CAA-CBA-CGA
36	A1	404	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
36	CE	504	CLA	O1A-CGA-O2A-C1
40	i1	102	LMT	C7-C8-C9-C10
40	iD	103	LMT	C7-C8-C9-C10
40	iE	103	LMT	C7-C8-C9-C10
44	h1	104	DGD	CCA-CDA-CEA-CFA
43	BD	617	BCR	C21-C22-C23-C24
43	BE	617	BCR	C21-C22-C23-C24
43	B1	617	BCR	C21-C22-C23-C24
43	I1	102	BCR	C17-C18-C19-C20
43	b1	618	BCR	C21-C22-C23-C24
43	i1	101	BCR	C7-C8-C9-C10
43	bD	618	BCR	C21-C22-C23-C24
43	iD	102	BCR	C7-C8-C9-C10
43	bE	618	BCR	C21-C22-C23-C24
43	iE	102	BCR	C7-C8-C9-C10
44	hD	104	DGD	CCA-CDA-CEA-CFA
44	hE	104	DGD	CCA-CDA-CEA-CFA
36	CD	507	CLA	C1A-C2A-CAA-CBA
36	CD	509	CLA	C1A-C2A-CAA-CBA
36	CD	513	CLA	C1A-C2A-CAA-CBA
36	CE	507	CLA	C1A-C2A-CAA-CBA
36	CE	509	CLA	C1A-C2A-CAA-CBA
36	CE	513	CLA	C1A-C2A-CAA-CBA
36	C1	507	CLA	C1A-C2A-CAA-CBA
36	C1	509	CLA	C1A-C2A-CAA-CBA
36	C1	513	CLA	C1A-C2A-CAA-CBA
36	c1	503	CLA	C1A-C2A-CAA-CBA
36	cD	504	CLA	C1A-C2A-CAA-CBA
36	cE	504	CLA	C1A-C2A-CAA-CBA
36	iE	101	CLA	C1A-C2A-CAA-CBA
45	d1	402	PHO	C8-C10-C11-C12
44	c1	518	DGD	C5A-C6A-C7A-C8A
44	cD	518	DGD	C5A-C6A-C7A-C8A
44	cE	518	DGD	C5A-C6A-C7A-C8A
43	b1	617	BCR	C19-C20-C21-C22
43	bD	617	BCR	C19-C20-C21-C22
43	bE	617	BCR	C19-C20-C21-C22
36	AD	404	CLA	O1A-CGA-O2A-C1
36	AE	404	CLA	O1A-CGA-O2A-C1
42	a1	412	LHG	C3-O3-P-O6
42	aD	411	LHG	C3-O3-P-O6
42	aE	411	LHG	C3-O3-P-O6

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Mol	Chain	Res	Type	Atoms
45	DD	401	PHO	O1D-CGD-O2D-CED
37	a1	409	PL9	C33-C34-C36-C37
37	aD	408	PL9	C33-C34-C36-C37
37	aE	408	PL9	C33-C34-C36-C37
36	DE	406	CLA	O1A-CGA-O2A-C1
36	d1	406	CLA	O1A-CGA-O2A-C1
36	dD	406	CLA	O1A-CGA-O2A-C1
36	dE	406	CLA	O1A-CGA-O2A-C1
36	A1	404	CLA	O1A-CGA-O2A-C1
42	AD	411	LHG	C4-O6-P-O4
42	BD	620	LHG	C4-O6-P-O5
42	DD	410	LHG	C4-O6-P-O4
42	AE	411	LHG	C4-O6-P-O4
42	BE	620	LHG	C4-O6-P-O5
42	DE	410	LHG	C4-O6-P-O4
42	A1	411	LHG	C4-O6-P-O4
42	B1	621	LHG	C4-O6-P-O5
42	D1	409	LHG	C4-O6-P-O4
42	a1	412	LHG	C3-O3-P-O4
42	d1	410	LHG	C4-O6-P-O4
42	e1	101	LHG	C3-O3-P-O5
42	l1	101	LHG	C4-O6-P-O5
42	aD	411	LHG	C3-O3-P-O4
42	dD	410	LHG	C4-O6-P-O4
42	eD	101	LHG	C3-O3-P-O5
42	lD	101	LHG	C4-O6-P-O5
42	aE	411	LHG	C3-O3-P-O4
42	dE	410	LHG	C4-O6-P-O4
42	eE	101	LHG	C3-O3-P-O5
42	lE	101	LHG	C4-O6-P-O5
38	cD	502	SQD	O5-C1-O6-C44
38	cE	502	SQD	O5-C1-O6-C44
40	BD	619	LMT	C6-C7-C8-C9
40	B1	619	LMT	C6-C7-C8-C9
40	b1	620	LMT	C6-C7-C8-C9
36	DD	406	CLA	O1A-CGA-O2A-C1
36	D1	405	CLA	O1A-CGA-O2A-C1
36	CD	512	CLA	O1D-CGD-O2D-CED
40	BE	619	LMT	C6-C7-C8-C9
40	bD	620	LMT	C6-C7-C8-C9
40	bE	620	LMT	C6-C7-C8-C9
36	BD	602	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
36	BE	602	CLA	C10-C11-C12-C13
36	B1	602	CLA	C10-C11-C12-C13
36	b1	604	CLA	C10-C11-C12-C13
36	bD	604	CLA	C10-C11-C12-C13
36	bE	604	CLA	C10-C11-C12-C13
33	OB	201	CYC	C2A-CAA-CBA-CGA
33	O4	201	CYC	C2A-CAA-CBA-CGA
44	CD	518	DGD	CDB-CEB-CFB-CGB
44	JD	101	DGD	C6A-C7A-C8A-C9A
44	CE	518	DGD	CDB-CEB-CFB-CGB
44	JE	101	DGD	C6A-C7A-C8A-C9A
33	6G	201	CYC	C2B-C3B-CAB-CBB
44	C1	518	DGD	CDB-CEB-CFB-CGB
44	J1	101	DGD	C6A-C7A-C8A-C9A
36	C1	512	CLA	O1D-CGD-O2D-CED
36	BD	604	CLA	CAD-CBD-CGD-O1D
36	BD	607	CLA	CAD-CBD-CGD-O1D
36	BD	613	CLA	CAD-CBD-CGD-O1D
36	CD	503	CLA	CAD-CBD-CGD-O1D
36	CD	506	CLA	CAD-CBD-CGD-O1D
36	CD	508	CLA	CAD-CBD-CGD-O1D
36	CD	511	CLA	CAD-CBD-CGD-O1D
36	HD	101	CLA	CAD-CBD-CGD-O1D
36	BE	604	CLA	CAD-CBD-CGD-O1D
36	BE	607	CLA	CAD-CBD-CGD-O1D
36	BE	613	CLA	CAD-CBD-CGD-O1D
36	CE	503	CLA	CAD-CBD-CGD-O1D
36	CE	506	CLA	CAD-CBD-CGD-O1D
36	CE	508	CLA	CAD-CBD-CGD-O1D
36	CE	511	CLA	CAD-CBD-CGD-O1D
36	HE	101	CLA	CAD-CBD-CGD-O1D
36	B1	604	CLA	CAD-CBD-CGD-O1D
36	B1	607	CLA	CAD-CBD-CGD-O1D
36	B1	613	CLA	CAD-CBD-CGD-O1D
36	C1	503	CLA	CAD-CBD-CGD-O1D
36	C1	506	CLA	CAD-CBD-CGD-O1D
36	C1	508	CLA	CAD-CBD-CGD-O1D
36	C1	511	CLA	CAD-CBD-CGD-O1D
36	H1	101	CLA	CAD-CBD-CGD-O1D
36	b1	606	CLA	CAD-CBD-CGD-O1D
36	b1	609	CLA	CAD-CBD-CGD-O1D
36	b1	614	CLA	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
36	c1	510	CLA	CAD-CBD-CGD-O1D
36	c1	511	CLA	CAD-CBD-CGD-O1D
36	h1	101	CLA	CAD-CBD-CGD-O1D
36	bD	606	CLA	CAD-CBD-CGD-O1D
36	bD	609	CLA	CAD-CBD-CGD-O1D
36	bD	614	CLA	CAD-CBD-CGD-O1D
36	cD	510	CLA	CAD-CBD-CGD-O1D
36	cD	511	CLA	CAD-CBD-CGD-O1D
36	hD	101	CLA	CAD-CBD-CGD-O1D
36	bE	606	CLA	CAD-CBD-CGD-O1D
36	bE	609	CLA	CAD-CBD-CGD-O1D
36	bE	614	CLA	CAD-CBD-CGD-O1D
36	cE	510	CLA	CAD-CBD-CGD-O1D
36	cE	511	CLA	CAD-CBD-CGD-O1D
36	hE	101	CLA	CAD-CBD-CGD-O1D
38	AD	407	SQD	C5-C6-S-O9
38	AE	407	SQD	C5-C6-S-O9
38	A1	407	SQD	C5-C6-S-O9
38	c1	501	SQD	C5-C6-S-O7
38	d1	414	SQD	O5-C5-C6-S
38	h1	103	SQD	C5-C6-S-O7
38	cD	502	SQD	C5-C6-S-O7
38	hD	103	SQD	C5-C6-S-O7
38	cE	502	SQD	C5-C6-S-O7
38	hE	103	SQD	C5-C6-S-O7
36	CD	511	CLA	C8-C10-C11-C12
36	CE	511	CLA	C8-C10-C11-C12
36	C1	511	CLA	C8-C10-C11-C12
33	6L	201	CYC	C2B-C3B-CAB-CBB
36	CE	512	CLA	O1D-CGD-O2D-CED
42	DD	409	LHG	C18-C19-C20-C21
42	DE	409	LHG	C18-C19-C20-C21
42	D1	408	LHG	C18-C19-C20-C21
42	dD	409	LHG	C18-C19-C20-C21
36	BD	603	CLA	C4-C3-C5-C6
36	BE	603	CLA	C4-C3-C5-C6
36	B1	603	CLA	C4-C3-C5-C6
36	b1	605	CLA	C4-C3-C5-C6
36	bD	605	CLA	C4-C3-C5-C6
36	bE	605	CLA	C4-C3-C5-C6
33	QB	201	CYC	C3D-CAD-CBD-CGD
33	QG	201	CYC	C3D-CAD-CBD-CGD

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Mol	Chain	Res	Type	Atoms
33	VG	201	CYC	C3D-CAD-CBD-CGD
33	QL	201	CYC	C3D-CAD-CBD-CGD
33	VL	201	CYC	C3D-CAD-CBD-CGD
33	y4	201	CYC	C3D-CAD-CBD-CGD
33	Q4	201	CYC	C3D-CAD-CBD-CGD
33	yB	201	CYC	C3D-CAD-CBD-CGD
33	gF	201	CYC	C3D-CAD-CBD-CGD
33	mF	201	CYC	C3D-CAD-CBD-CGD
33	gK	201	CYC	C3D-CAD-CBD-CGD
33	mK	201	CYC	C3D-CAD-CBD-CGD
36	AD	405	CLA	C12-C13-C15-C16
36	BD	603	CLA	C6-C7-C8-C10
36	CD	511	CLA	C3A-C2A-CAA-CBA
36	CD	512	CLA	C6-C7-C8-C10
36	XD	101	CLA	C12-C13-C15-C16
36	AE	405	CLA	C12-C13-C15-C16
36	BE	603	CLA	C6-C7-C8-C10
36	CE	511	CLA	C3A-C2A-CAA-CBA
36	CE	512	CLA	C6-C7-C8-C10
36	XE	101	CLA	C12-C13-C15-C16
36	A1	405	CLA	C12-C13-C15-C16
36	B1	603	CLA	C6-C7-C8-C10
36	C1	511	CLA	C3A-C2A-CAA-CBA
36	C1	512	CLA	C6-C7-C8-C10
36	X1	101	CLA	C12-C13-C15-C16
36	b1	605	CLA	C6-C7-C8-C10
36	c1	505	CLA	C11-C10-C8-C7
36	c1	512	CLA	C12-C13-C15-C16
36	x1	101	CLA	C12-C13-C15-C16
36	bD	605	CLA	C6-C7-C8-C10
36	cD	506	CLA	C11-C10-C8-C7
36	cD	512	CLA	C12-C13-C15-C16
36	xD	101	CLA	C12-C13-C15-C16
36	bE	605	CLA	C6-C7-C8-C10
36	cE	506	CLA	C11-C10-C8-C7
36	cE	512	CLA	C12-C13-C15-C16
36	xE	101	CLA	C12-C13-C15-C16
45	DD	403	PHO	C6-C7-C8-C10
45	DE	401	PHO	C11-C12-C13-C15
45	DE	403	PHO	C6-C7-C8-C10
45	D1	402	PHO	C11-C10-C8-C7
42	d1	409	LHG	C18-C19-C20-C21

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Mol	Chain	Res	Type	Atoms
42	dE	409	LHG	C18-C19-C20-C21
43	BD	616	BCR	C19-C20-C21-C22
43	CD	516	BCR	C9-C10-C11-C12
43	BE	616	BCR	C19-C20-C21-C22
43	CE	516	BCR	C9-C10-C11-C12
43	B1	616	BCR	C19-C20-C21-C22
43	C1	516	BCR	C9-C10-C11-C12
36	a1	406	CLA	C10-C11-C12-C13
36	b1	605	CLA	C10-C11-C12-C13
36	c1	512	CLA	C5-C6-C7-C8
36	aD	405	CLA	C10-C11-C12-C13
36	bD	605	CLA	C10-C11-C12-C13
36	cD	512	CLA	C5-C6-C7-C8
36	aE	405	CLA	C10-C11-C12-C13
42	DD	410	LHG	C17-C18-C19-C20
42	d1	410	LHG	C17-C18-C19-C20
42	dD	410	LHG	C17-C18-C19-C20
42	dE	410	LHG	C17-C18-C19-C20
42	DE	410	LHG	C17-C18-C19-C20
42	D1	409	LHG	C17-C18-C19-C20
36	BD	603	CLA	C10-C11-C12-C13
36	BE	603	CLA	C10-C11-C12-C13
36	B1	603	CLA	C10-C11-C12-C13
36	c1	506	CLA	C5-C6-C7-C8
36	bE	605	CLA	C10-C11-C12-C13
36	cE	512	CLA	C5-C6-C7-C8
39	AD	408	LMG	C28-C29-C30-C31
39	AE	408	LMG	C28-C29-C30-C31
39	A1	408	LMG	C28-C29-C30-C31
36	iD	101	CLA	C5-C6-C7-C8
33	BB	1001	CYC	C2D-C3D-CAD-CBD
33	B4	1001	CYC	C2D-C3D-CAD-CBD
38	h1	103	SQD	C44-C45-C46-O48
38	hD	103	SQD	C44-C45-C46-O48
38	hE	103	SQD	C44-C45-C46-O48
40	B1	619	LMT	C1-C2-C3-C4
40	bE	620	LMT	C1-C2-C3-C4
39	CD	502	LMG	O7-C8-C9-O8
39	CE	502	LMG	O7-C8-C9-O8
39	C1	502	LMG	O7-C8-C9-O8
44	c1	516	DGD	O1G-C1G-C2G-O2G
44	cD	516	DGD	O1G-C1G-C2G-O2G

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Mol	Chain	Res	Type	Atoms
44	cE	516	DGD	O1G-C1G-C2G-O2G
40	BD	619	LMT	C1-C2-C3-C4
40	BE	619	LMT	C1-C2-C3-C4
40	b1	620	LMT	C1-C2-C3-C4
40	bD	620	LMT	C1-C2-C3-C4
44	c1	517	DGD	C5D-C6D-O5D-C1E
44	cD	517	DGD	C5D-C6D-O5D-C1E
44	cE	517	DGD	C5D-C6D-O5D-C1E
36	iE	101	CLA	C5-C6-C7-C8
44	JD	101	DGD	CBA-CCA-CDA-CEA
44	JE	101	DGD	CBA-CCA-CDA-CEA
44	J1	101	DGD	CBA-CCA-CDA-CEA
36	CD	511	CLA	C5-C6-C7-C8
36	CE	511	CLA	C5-C6-C7-C8
36	C1	511	CLA	C5-C6-C7-C8
36	XD	101	CLA	C4-C3-C5-C6
36	XE	101	CLA	C4-C3-C5-C6
36	X1	101	CLA	C4-C3-C5-C6
36	x1	101	CLA	C4-C3-C5-C6
38	BD	621	SQD	C24-C23-O48-C46
38	BE	621	SQD	C24-C23-O48-C46
38	B1	622	SQD	C24-C23-O48-C46
42	AD	411	LHG	C24-C23-O8-C6
42	AE	411	LHG	C24-C23-O8-C6
42	A1	411	LHG	C24-C23-O8-C6
36	c1	511	CLA	C2-C3-C5-C6
36	cD	511	CLA	C2-C3-C5-C6
36	cE	511	CLA	C2-C3-C5-C6
36	BD	604	CLA	C11-C12-C13-C14
36	BD	612	CLA	C6-C7-C8-C9
36	BD	613	CLA	C14-C13-C15-C16
36	CD	510	CLA	C11-C12-C13-C14
36	CD	513	CLA	C14-C13-C15-C16
36	BE	604	CLA	C11-C12-C13-C14
36	BE	612	CLA	C6-C7-C8-C9
36	BE	613	CLA	C14-C13-C15-C16
36	CE	510	CLA	C11-C12-C13-C14
36	CE	513	CLA	C14-C13-C15-C16
36	B1	604	CLA	C11-C12-C13-C14
36	B1	612	CLA	C6-C7-C8-C9
36	B1	613	CLA	C14-C13-C15-C16
36	C1	510	CLA	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
36	C1	513	CLA	C14-C13-C15-C16
36	b1	606	CLA	C11-C12-C13-C14
36	b1	613	CLA	C6-C7-C8-C9
36	b1	614	CLA	C14-C13-C15-C16
36	c1	514	CLA	C11-C10-C8-C9
36	bD	606	CLA	C11-C12-C13-C14
36	bD	613	CLA	C6-C7-C8-C9
36	bD	614	CLA	C14-C13-C15-C16
36	cD	514	CLA	C11-C10-C8-C9
36	bE	606	CLA	C11-C12-C13-C14
36	bE	613	CLA	C6-C7-C8-C9
36	bE	614	CLA	C14-C13-C15-C16
36	cE	514	CLA	C11-C10-C8-C9
45	DE	401	PHO	C6-C7-C8-C9
45	dE	402	PHO	C11-C10-C8-C9
36	CD	507	CLA	O1D-CGD-O2D-CED
36	CE	507	CLA	O1D-CGD-O2D-CED
36	IE	101	CLA	C10-C11-C12-C13
37	a1	409	PL9	C24-C26-C27-C28
37	aD	408	PL9	C24-C26-C27-C28
37	aE	408	PL9	C24-C26-C27-C28
33	HG	201	CYC	C2A-CAA-CBA-CGA
33	IG	201	CYC	C2A-CAA-CBA-CGA
33	HL	201	CYC	C2A-CAA-CBA-CGA
33	IL	201	CYC	C2A-CAA-CBA-CGA
33	nF	201	CYC	C2A-CAA-CBA-CGA
33	nK	201	CYC	C2A-CAA-CBA-CGA
47	ED	101	HEM	C3D-CAD-CBD-CGD
47	EE	101	HEM	C3D-CAD-CBD-CGD
47	E1	101	HEM	C3D-CAD-CBD-CGD
47	f1	101	HEM	C3D-CAD-CBD-CGD
47	fD	101	HEM	C3D-CAD-CBD-CGD
47	fE	101	HEM	C3D-CAD-CBD-CGD
38	BD	621	SQD	O10-C23-O48-C46
36	ID	101	CLA	C10-C11-C12-C13
36	I1	101	CLA	C10-C11-C12-C13
43	ZD	101	BCR	C18-C19-C20-C21
43	ZE	101	BCR	C18-C19-C20-C21
43	Z1	101	BCR	C18-C19-C20-C21
43	z1	101	BCR	C18-C19-C20-C21
43	zD	101	BCR	C18-C19-C20-C21
43	zE	101	BCR	C18-C19-C20-C21

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Mol	Chain	Res	Type	Atoms
38	BE	621	SQD	O10-C23-O48-C46
38	B1	622	SQD	O10-C23-O48-C46
39	DD	411	LMG	C32-C33-C34-C35
39	D1	410	LMG	C32-C33-C34-C35
36	C1	507	CLA	O1D-CGD-O2D-CED
43	ID	102	BCR	C17-C18-C19-C20
43	IE	102	BCR	C17-C18-C19-C20
36	CD	509	CLA	C13-C15-C16-C17
36	CE	509	CLA	C13-C15-C16-C17
36	C1	509	CLA	C13-C15-C16-C17
45	D1	402	PHO	C13-C15-C16-C17
39	DE	411	LMG	C32-C33-C34-C35
39	dD	411	LMG	C32-C33-C34-C35
39	dE	411	LMG	C32-C33-C34-C35
39	d1	411	LMG	C32-C33-C34-C35
36	xD	101	CLA	C4-C3-C5-C6
36	xE	101	CLA	C4-C3-C5-C6
37	AD	406	PL9	C45-C44-C46-C47
39	MD	101	LMG	O7-C10-C11-C12
39	ME	101	LMG	O7-C10-C11-C12
39	M1	101	LMG	O7-C10-C11-C12
39	m1	101	LMG	O7-C10-C11-C12
39	mD	101	LMG	O7-C10-C11-C12
39	mE	101	LMG	O7-C10-C11-C12
36	CD	515	CLA	C13-C15-C16-C17
36	CE	515	CLA	C13-C15-C16-C17
36	C1	515	CLA	C13-C15-C16-C17
42	l1	101	LHG	C23-C24-C25-C26
42	lD	101	LHG	C23-C24-C25-C26
39	j1	102	LMG	C11-C12-C13-C14
39	jD	102	LMG	C11-C12-C13-C14
36	c1	510	CLA	C8-C10-C11-C12
36	cD	510	CLA	C8-C10-C11-C12
36	cE	510	CLA	C8-C10-C11-C12
44	CD	517	DGD	O1A-C1A-O1G-C1G
44	CE	517	DGD	O1A-C1A-O1G-C1G
44	C1	517	DGD	O1A-C1A-O1G-C1G
39	jE	102	LMG	C11-C12-C13-C14
42	aE	411	LHG	C29-C30-C31-C32
40	BD	622	LMT	C4'-C5'-C6'-O6'
40	BE	622	LMT	C4'-C5'-C6'-O6'
38	cE	502	SQD	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
39	M1	101	LMG	C31-C32-C33-C34
42	a1	412	LHG	C29-C30-C31-C32
42	aD	411	LHG	C29-C30-C31-C32
40	a1	401	LMT	C4'-C5'-C6'-O6'
36	BD	603	CLA	C2A-CAA-CBA-CGA
36	BD	613	CLA	C2A-CAA-CBA-CGA
36	BE	603	CLA	C2A-CAA-CBA-CGA
36	BE	613	CLA	C2A-CAA-CBA-CGA
36	B1	603	CLA	C2A-CAA-CBA-CGA
36	B1	613	CLA	C2A-CAA-CBA-CGA
36	b1	605	CLA	C2A-CAA-CBA-CGA
36	b1	614	CLA	C2A-CAA-CBA-CGA
36	bD	605	CLA	C2A-CAA-CBA-CGA
36	bD	614	CLA	C2A-CAA-CBA-CGA
36	bE	605	CLA	C2A-CAA-CBA-CGA
36	bE	614	CLA	C2A-CAA-CBA-CGA
39	MD	101	LMG	C31-C32-C33-C34
36	DD	405	CLA	CBA-CGA-O2A-C1
36	DE	405	CLA	CBA-CGA-O2A-C1
36	D1	404	CLA	CBA-CGA-O2A-C1
36	d1	405	CLA	CBA-CGA-O2A-C1
36	dD	405	CLA	CBA-CGA-O2A-C1
36	dE	405	CLA	CBA-CGA-O2A-C1
44	CD	517	DGD	C2A-C1A-O1G-C1G
44	CE	517	DGD	C2A-C1A-O1G-C1G
44	C1	517	DGD	C2A-C1A-O1G-C1G
36	c1	510	CLA	C2-C1-O2A-CGA
36	cD	510	CLA	C2-C1-O2A-CGA
36	cE	510	CLA	C2-C1-O2A-CGA
33	GG	201	CYC	C2B-C3B-CAB-CBB
38	c1	501	SQD	C10-C11-C12-C13
38	cD	502	SQD	C10-C11-C12-C13
39	ME	101	LMG	C31-C32-C33-C34
44	hE	104	DGD	C4D-C5D-C6D-O5D
36	D1	404	CLA	O1A-CGA-O2A-C1
33	GL	201	CYC	C2B-C3B-CAB-CBB
39	BD	618	LMG	C22-C23-C24-C25
39	BE	618	LMG	C22-C23-C24-C25
39	B1	618	LMG	C22-C23-C24-C25
39	m1	101	LMG	C31-C32-C33-C34
39	mD	101	LMG	C31-C32-C33-C34
39	mE	101	LMG	C31-C32-C33-C34

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Mol	Chain	Res	Type	Atoms
42	lE	101	LHG	C23-C24-C25-C26
44	h1	104	DGD	C4D-C5D-C6D-O5D
44	hD	104	DGD	C4D-C5D-C6D-O5D
39	b1	619	LMG	C22-C23-C24-C25
39	bD	619	LMG	C22-C23-C24-C25
39	bE	619	LMG	C22-C23-C24-C25
36	DD	405	CLA	O1A-CGA-O2A-C1
36	DE	405	CLA	O1A-CGA-O2A-C1
36	d1	405	CLA	O1A-CGA-O2A-C1
36	dD	405	CLA	O1A-CGA-O2A-C1
36	dE	405	CLA	O1A-CGA-O2A-C1
42	AD	411	LHG	O10-C23-O8-C6
42	AE	411	LHG	O10-C23-O8-C6
42	A1	411	LHG	O10-C23-O8-C6
36	BD	614	CLA	C5-C6-C7-C8
36	BE	614	CLA	C5-C6-C7-C8
36	B1	614	CLA	C5-C6-C7-C8
37	AE	406	PL9	C45-C44-C46-C47
37	A1	406	PL9	C45-C44-C46-C47
43	c1	515	BCR	C23-C24-C25-C26
43	cD	515	BCR	C23-C24-C25-C26
43	cE	515	BCR	C23-C24-C25-C26
42	BD	620	LHG	O9-C7-O7-C5
42	BE	620	LHG	O9-C7-O7-C5
42	B1	621	LHG	O9-C7-O7-C5
42	l1	101	LHG	O9-C7-O7-C5
42	lD	101	LHG	O9-C7-O7-C5
42	lE	101	LHG	O9-C7-O7-C5
45	dE	402	PHO	C8-C10-C11-C12
42	l1	101	LHG	C5-C6-O8-C23
42	lE	101	LHG	C5-C6-O8-C23
42	BD	620	LHG	C23-C24-C25-C26
42	BE	620	LHG	C23-C24-C25-C26
44	h1	104	DGD	O2G-C1B-C2B-C3B
44	hD	104	DGD	O2G-C1B-C2B-C3B
44	hE	104	DGD	O2G-C1B-C2B-C3B
36	b1	615	CLA	C5-C6-C7-C8
36	bD	615	CLA	C5-C6-C7-C8
36	bE	615	CLA	C5-C6-C7-C8
33	SB	201	CYC	C2A-CAA-CBA-CGA
33	S4	201	CYC	C2A-CAA-CBA-CGA
42	B1	621	LHG	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
42	B1	621	LHG	C5-C6-O8-C23
42	ID	101	LHG	C5-C6-O8-C23
38	CD	501	SQD	O47-C45-C46-O48
38	CE	501	SQD	O47-C45-C46-O48
38	C1	501	SQD	O47-C45-C46-O48
39	CD	502	LMG	O1-C7-C8-O7
39	CE	502	LMG	O1-C7-C8-O7
39	C1	502	LMG	O1-C7-C8-O7
44	CD	517	DGD	O1G-C1G-C2G-O2G
44	CE	517	DGD	O1G-C1G-C2G-O2G
44	C1	517	DGD	O1G-C1G-C2G-O2G
44	h1	104	DGD	O1G-C1G-C2G-O2G
44	hD	104	DGD	O1G-C1G-C2G-O2G
44	hE	104	DGD	O1G-C1G-C2G-O2G
38	cD	502	SQD	C25-C26-C27-C28
38	cE	502	SQD	C25-C26-C27-C28
42	a1	412	LHG	C4-O6-P-O3
42	aD	411	LHG	C4-O6-P-O3
42	aE	411	LHG	C4-O6-P-O3
44	cE	516	DGD	C2A-C3A-C4A-C5A
38	c1	501	SQD	C25-C26-C27-C28
44	c1	516	DGD	C2A-C3A-C4A-C5A
44	cD	516	DGD	C2A-C3A-C4A-C5A
45	DD	401	PHO	CHA-CBD-CGD-O1D
45	dD	402	PHO	CHA-CBD-CGD-O1D
45	dE	402	PHO	CHA-CBD-CGD-O1D
42	BD	620	LHG	C5-C6-O8-C23
42	BE	620	LHG	C5-C6-O8-C23
42	a1	412	LHG	C4-C5-C6-O8
42	aD	411	LHG	C4-C5-C6-O8
42	aE	411	LHG	C4-C5-C6-O8
37	a1	409	PL9	C45-C44-C46-C47
37	aD	408	PL9	C45-C44-C46-C47
37	aE	408	PL9	C45-C44-C46-C47
36	BD	613	CLA	C12-C13-C15-C16
36	CD	506	CLA	C11-C10-C8-C7
36	BE	613	CLA	C12-C13-C15-C16
36	CE	506	CLA	C11-C10-C8-C7
36	B1	613	CLA	C12-C13-C15-C16
36	C1	506	CLA	C11-C10-C8-C7
36	b1	614	CLA	C12-C13-C15-C16
36	bD	614	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
36	bE	614	CLA	C12-C13-C15-C16
45	D1	402	PHO	C6-C7-C8-C10
40	dE	413	LMT	C4'-C5'-C6'-O6'
36	AD	405	CLA	C11-C10-C8-C9
36	BD	607	CLA	C14-C13-C15-C16
36	CD	512	CLA	C6-C7-C8-C9
36	CD	512	CLA	C11-C10-C8-C9
36	CD	515	CLA	C11-C10-C8-C9
36	AE	405	CLA	C11-C10-C8-C9
36	BE	607	CLA	C14-C13-C15-C16
36	CE	512	CLA	C6-C7-C8-C9
36	CE	512	CLA	C11-C10-C8-C9
36	CE	515	CLA	C11-C10-C8-C9
36	A1	405	CLA	C11-C10-C8-C9
36	B1	607	CLA	C14-C13-C15-C16
36	C1	512	CLA	C6-C7-C8-C9
36	C1	512	CLA	C11-C10-C8-C9
36	C1	515	CLA	C11-C10-C8-C9
36	b1	609	CLA	C14-C13-C15-C16
36	c1	511	CLA	C11-C10-C8-C9
36	bD	609	CLA	C14-C13-C15-C16
36	cD	511	CLA	C11-C10-C8-C9
36	bE	609	CLA	C14-C13-C15-C16
36	cE	511	CLA	C11-C10-C8-C9
45	A1	412	PHO	C6-C7-C8-C9
45	aE	412	PHO	C6-C7-C8-C9
43	CE	520	BCR	C19-C20-C21-C22
40	dD	413	LMT	C4'-C5'-C6'-O6'
36	c1	502	CLA	CBA-CGA-O2A-C1
36	cD	503	CLA	CBA-CGA-O2A-C1
36	cE	503	CLA	CBA-CGA-O2A-C1
36	cD	503	CLA	O1A-CGA-O2A-C1
36	cE	503	CLA	O1A-CGA-O2A-C1
40	d1	413	LMT	C4'-C5'-C6'-O6'
42	e1	101	LHG	C17-C18-C19-C20
42	eD	101	LHG	C17-C18-C19-C20
42	eE	101	LHG	C17-C18-C19-C20
44	cD	517	DGD	CAB-CBB-CCB-CDB
44	cE	517	DGD	CAB-CBB-CCB-CDB
36	c1	502	CLA	O1A-CGA-O2A-C1
39	CD	519	LMG	C32-C33-C34-C35
39	CE	519	LMG	C32-C33-C34-C35

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Mol	Chain	Res	Type	Atoms
39	C1	519	LMG	C32-C33-C34-C35
38	AD	407	SQD	C12-C13-C14-C15
38	A1	407	SQD	C12-C13-C14-C15
44	c1	517	DGD	CAB-CBB-CCB-CDB
40	AD	409	LMT	C9-C10-C11-C12
40	AE	409	LMT	C9-C10-C11-C12
40	A1	409	LMT	C9-C10-C11-C12
38	AE	407	SQD	C12-C13-C14-C15
36	HD	102	CLA	O1A-CGA-O2A-C1
36	BD	602	CLA	CBA-CGA-O2A-C1
36	HD	102	CLA	CBA-CGA-O2A-C1
36	BE	602	CLA	CBA-CGA-O2A-C1
36	HE	102	CLA	CBA-CGA-O2A-C1
36	B1	602	CLA	CBA-CGA-O2A-C1
36	H1	102	CLA	CBA-CGA-O2A-C1
36	b1	604	CLA	CBA-CGA-O2A-C1
36	h1	102	CLA	CBA-CGA-O2A-C1
36	bD	604	CLA	CBA-CGA-O2A-C1
36	hD	102	CLA	CBA-CGA-O2A-C1
36	bE	604	CLA	CBA-CGA-O2A-C1
36	hE	102	CLA	CBA-CGA-O2A-C1
42	l1	101	LHG	C11-C10-C9-C8
42	dE	409	LHG	C27-C28-C29-C30
42	eE	101	LHG	C12-C13-C14-C15
36	HE	102	CLA	O1A-CGA-O2A-C1
36	H1	102	CLA	O1A-CGA-O2A-C1
36	hD	102	CLA	O1A-CGA-O2A-C1
38	AE	407	SQD	C23-C24-C25-C26
42	dD	409	LHG	C27-C28-C29-C30
33	4G	201	CYC	C2A-CAA-CBA-CGA
33	4L	201	CYC	C2A-CAA-CBA-CGA
33	RB	201	CYC	CAA-CBA-CGA-O2A
33	IK	201	CYC	CAD-CBD-CGD-O2D
33	R4	201	CYC	CAA-CBA-CGA-O2A
33	fF	201	CYC	CAA-CBA-CGA-O2A
33	fK	201	CYC	CAA-CBA-CGA-O2A
39	CD	519	LMG	C37-C38-C39-C40
39	CE	519	LMG	C37-C38-C39-C40
39	C1	519	LMG	C37-C38-C39-C40
39	a1	410	LMG	C30-C31-C32-C33
42	d1	409	LHG	C27-C28-C29-C30
42	eD	101	LHG	C12-C13-C14-C15

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Mol	Chain	Res	Type	Atoms
42	ID	101	LHG	C11-C10-C9-C8
42	IE	101	LHG	C11-C10-C9-C8
39	aD	409	LMG	C30-C31-C32-C33
39	aE	409	LMG	C30-C31-C32-C33
42	DD	409	LHG	C27-C28-C29-C30
42	DE	409	LHG	C27-C28-C29-C30
42	D1	408	LHG	C27-C28-C29-C30
42	e1	101	LHG	C12-C13-C14-C15
36	h1	102	CLA	O1A-CGA-O2A-C1
36	hE	102	CLA	O1A-CGA-O2A-C1
38	AD	407	SQD	C23-C24-C25-C26
33	RB	201	CYC	CAD-CBD-CGD-O1D
33	IF	201	CYC	CAD-CBD-CGD-O2D
33	YF	201	CYC	CAA-CBA-CGA-O2A
33	PG	201	CYC	CAA-CBA-CGA-O2A
33	VG	201	CYC	CAD-CBD-CGD-O1D
33	PL	201	CYC	CAA-CBA-CGA-O2A
33	VL	201	CYC	CAD-CBD-CGD-O1D
33	R4	201	CYC	CAD-CBD-CGD-O1D
33	dF	201	CYC	CAA-CBA-CGA-O2A
33	hF	201	CYC	CAA-CBA-CGA-O2A
33	mF	201	CYC	CAD-CBD-CGD-O1D
33	dK	201	CYC	CAA-CBA-CGA-O2A
33	hK	201	CYC	CAA-CBA-CGA-O2A
33	mK	201	CYC	CAD-CBD-CGD-O1D
43	CD	520	BCR	C19-C20-C21-C22
43	ID	102	BCR	C13-C14-C15-C16
43	ID	102	BCR	C19-C20-C21-C22
43	IE	102	BCR	C13-C14-C15-C16
43	IE	102	BCR	C19-C20-C21-C22
43	C1	520	BCR	C19-C20-C21-C22
43	I1	102	BCR	C13-C14-C15-C16
43	I1	102	BCR	C19-C20-C21-C22
40	B1	623	LMT	C5-C6-C7-C8
42	BE	620	LHG	C11-C10-C9-C8
45	dD	402	PHO	C3-C5-C6-C7
45	dE	402	PHO	C3-C5-C6-C7
36	BD	602	CLA	O1A-CGA-O2A-C1
36	BE	602	CLA	O1A-CGA-O2A-C1
36	B1	602	CLA	O1A-CGA-O2A-C1
36	b1	604	CLA	O1A-CGA-O2A-C1
36	bD	604	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
36	bE	604	CLA	O1A-CGA-O2A-C1
42	B1	621	LHG	C11-C10-C9-C8
40	j1	101	LMT	C4'-C5'-C6'-O6'
40	jD	101	LMT	C4'-C5'-C6'-O6'
40	jE	101	LMT	C4'-C5'-C6'-O6'
38	A1	407	SQD	C23-C24-C25-C26
36	CE	512	CLA	C15-C16-C17-C18
36	C1	512	CLA	C15-C16-C17-C18
40	BD	623	LMT	C5-C6-C7-C8
40	BE	623	LMT	C5-C6-C7-C8
42	BD	620	LHG	C11-C10-C9-C8
33	YK	201	CYC	CAA-CBA-CGA-O2A
33	VL	201	CYC	CAA-CBA-CGA-O2A
42	e1	101	LHG	O6-C4-C5-O7
42	eD	101	LHG	O6-C4-C5-O7
42	eE	101	LHG	O6-C4-C5-O7
36	CD	512	CLA	C15-C16-C17-C18
36	CD	515	CLA	C16-C17-C18-C20
36	CE	515	CLA	C16-C17-C18-C20
36	C1	515	CLA	C16-C17-C18-C20
33	VB	201	CYC	CAA-CBA-CGA-O2A
33	VG	201	CYC	CAA-CBA-CGA-O2A
33	V4	201	CYC	CAA-CBA-CGA-O2A
33	mF	201	CYC	CAA-CBA-CGA-O2A
33	mK	201	CYC	CAA-CBA-CGA-O2A
36	AD	405	CLA	O1A-CGA-O2A-C1
36	AE	405	CLA	O1A-CGA-O2A-C1
36	A1	405	CLA	O1A-CGA-O2A-C1
44	c1	517	DGD	C3B-C4B-C5B-C6B
33	NF	101	CYC	CAD-CBD-CGD-O1D
33	NK	101	CYC	CAD-CBD-CGD-O1D
33	XK	201	CYC	CAA-CBA-CGA-O2A
33	b4	101	CYC	CAA-CBA-CGA-O1A
33	u4	201	CYC	CAD-CBD-CGD-O1D
33	bB	101	CYC	CAA-CBA-CGA-O1A
33	uB	201	CYC	CAD-CBD-CGD-O1D
33	6G	201	CYC	CAA-CBA-CGA-O2A
33	gK	201	CYC	CAA-CBA-CGA-O2A
33	6L	201	CYC	CAA-CBA-CGA-O2A
36	BD	608	CLA	C2-C1-O2A-CGA
36	BE	608	CLA	C2-C1-O2A-CGA
36	B1	608	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
36	a1	407	CLA	C2-C1-O2A-CGA
36	d1	403	CLA	C2-C1-O2A-CGA
36	aD	406	CLA	C2-C1-O2A-CGA
36	dD	403	CLA	C2-C1-O2A-CGA
36	aE	406	CLA	C2-C1-O2A-CGA
36	dE	403	CLA	C2-C1-O2A-CGA
44	cD	517	DGD	C3B-C4B-C5B-C6B
36	BD	608	CLA	C15-C16-C17-C18
36	BE	608	CLA	C15-C16-C17-C18
36	B1	608	CLA	C15-C16-C17-C18
36	d1	403	CLA	C15-C16-C17-C18
36	dD	403	CLA	C15-C16-C17-C18
36	dE	403	CLA	C15-C16-C17-C18
44	HD	103	DGD	CDA-CEA-CFA-CGA
44	H1	103	DGD	CDA-CEA-CFA-CGA
44	HE	103	DGD	CDA-CEA-CFA-CGA
33	XF	201	CYC	CAA-CBA-CGA-O2A
33	YF	201	CYC	CAA-CBA-CGA-O1A
33	LK	201	CYC	CAA-CBA-CGA-O2A
33	YK	201	CYC	CAA-CBA-CGA-O1A
33	q4	201	CYC	CAA-CBA-CGA-O2A
33	dF	201	CYC	CAA-CBA-CGA-O1A
33	gF	201	CYC	CAA-CBA-CGA-O2A
33	hF	201	CYC	CAA-CBA-CGA-O1A
33	5G	201	CYC	CAA-CBA-CGA-O1A
33	dK	201	CYC	CAA-CBA-CGA-O1A
33	hK	201	CYC	CAA-CBA-CGA-O1A
33	5L	201	CYC	CAA-CBA-CGA-O1A
39	AD	408	LMG	O7-C8-C9-O8
39	AE	408	LMG	O7-C8-C9-O8
39	A1	408	LMG	O7-C8-C9-O8
44	cE	517	DGD	C3B-C4B-C5B-C6B
36	CD	515	CLA	C3A-C2A-CAA-CBA
36	CE	515	CLA	C3A-C2A-CAA-CBA
36	C1	515	CLA	C3A-C2A-CAA-CBA
45	DD	401	PHO	C3A-C2A-CAA-CBA
33	BB	1001	CYC	CAA-CBA-CGA-O2A
33	BB	1001	CYC	CAD-CBD-CGD-O1D
33	BB	1001	CYC	CAD-CBD-CGD-O2D
33	BB	1002	CYC	CAD-CBD-CGD-O1D
33	BB	1003	CYC	CAA-CBA-CGA-O1A
33	IF	201	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
33	LF	201	CYC	CAA-CBA-CGA-O2A
33	QL	201	CYC	CAA-CBA-CGA-O2A
33	B4	1001	CYC	CAA-CBA-CGA-O2A
33	B4	1001	CYC	CAD-CBD-CGD-O1D
33	B4	1001	CYC	CAD-CBD-CGD-O2D
33	B4	1002	CYC	CAD-CBD-CGD-O1D
33	B4	1003	CYC	CAA-CBA-CGA-O1A
47	ED	101	HEM	CAA-CBA-CGA-O1A
47	EE	101	HEM	CAA-CBA-CGA-O1A
47	E1	101	HEM	CAA-CBA-CGA-O1A
47	f1	101	HEM	CAA-CBA-CGA-O1A
47	fD	101	HEM	CAA-CBA-CGA-O1A
47	fE	101	HEM	CAA-CBA-CGA-O1A
44	c1	518	DGD	CBA-CCA-CDA-CEA
44	cE	518	DGD	CBA-CCA-CDA-CEA
39	d1	411	LMG	C38-C39-C40-C41
39	dE	411	LMG	C38-C39-C40-C41
44	cD	518	DGD	CBA-CCA-CDA-CEA
36	AD	405	CLA	CBA-CGA-O2A-C1
36	AE	405	CLA	CBA-CGA-O2A-C1
36	A1	405	CLA	CBA-CGA-O2A-C1
39	dD	411	LMG	C38-C39-C40-C41
33	CB	1003	CYC	CAD-CBD-CGD-O1D
33	JG	201	CYC	CAA-CBA-CGA-O2A
33	PG	201	CYC	CAA-CBA-CGA-O1A
33	QG	201	CYC	CAA-CBA-CGA-O2A
33	IK	201	CYC	CAA-CBA-CGA-O2A
33	JL	201	CYC	CAA-CBA-CGA-O2A
33	PL	201	CYC	CAA-CBA-CGA-O1A
33	C4	1003	CYC	CAD-CBD-CGD-O1D
33	qB	201	CYC	CAA-CBA-CGA-O2A
33	5G	201	CYC	CAA-CBA-CGA-O2A
33	5L	201	CYC	CAA-CBA-CGA-O2A
39	DD	411	LMG	C38-C39-C40-C41
39	DE	411	LMG	C38-C39-C40-C41
39	D1	410	LMG	C38-C39-C40-C41
44	C1	518	DGD	C9B-CAB-CBB-CCB
37	a1	409	PL9	C4-C3-C7-C8
37	aD	408	PL9	C4-C3-C7-C8
37	aE	408	PL9	C4-C3-C7-C8
42	d1	410	LHG	C9-C10-C11-C12
44	CD	518	DGD	C9B-CAB-CBB-CCB

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Mol	Chain	Res	Type	Atoms
44	CE	518	DGD	C9B-CAB-CBB-CCB
36	BD	604	CLA	C14-C13-C15-C16
36	CD	506	CLA	C11-C12-C13-C14
36	CD	511	CLA	C14-C13-C15-C16
36	BE	604	CLA	C14-C13-C15-C16
36	CE	506	CLA	C11-C12-C13-C14
36	CE	511	CLA	C14-C13-C15-C16
36	B1	604	CLA	C14-C13-C15-C16
36	C1	506	CLA	C11-C12-C13-C14
36	C1	511	CLA	C14-C13-C15-C16
36	b1	606	CLA	C14-C13-C15-C16
36	c1	503	CLA	C6-C7-C8-C9
36	bD	606	CLA	C14-C13-C15-C16
36	cD	504	CLA	C6-C7-C8-C9
36	bE	606	CLA	C14-C13-C15-C16
36	cE	504	CLA	C6-C7-C8-C9
42	dE	410	LHG	C9-C10-C11-C12
33	KF	201	CYC	CAD-CBD-CGD-O1D
33	QG	201	CYC	CAD-CBD-CGD-O1D
33	KK	201	CYC	CAD-CBD-CGD-O1D
33	QL	201	CYC	CAD-CBD-CGD-O1D
33	b4	101	CYC	CAA-CBA-CGA-O2A
33	u4	201	CYC	CAD-CBD-CGD-O2D
33	dA	201	CYC	CAD-CBD-CGD-O1D
33	bB	101	CYC	CAA-CBA-CGA-O2A
33	uB	201	CYC	CAD-CBD-CGD-O2D
33	gF	201	CYC	CAD-CBD-CGD-O1D
33	gK	201	CYC	CAD-CBD-CGD-O1D
42	DD	410	LHG	C9-C10-C11-C12
42	DE	410	LHG	C9-C10-C11-C12
42	D1	409	LHG	C9-C10-C11-C12
42	dD	410	LHG	C9-C10-C11-C12
39	aD	407	LMG	C32-C33-C34-C35
39	aE	407	LMG	C32-C33-C34-C35
40	dE	412	LMT	C11-C10-C9-C8
43	XD	102	BCR	C16-C17-C18-C36
43	ZD	101	BCR	C20-C21-C22-C37
43	XE	102	BCR	C16-C17-C18-C36
43	ZE	101	BCR	C20-C21-C22-C37
43	X1	102	BCR	C16-C17-C18-C36
43	Z1	101	BCR	C20-C21-C22-C37
43	h1	105	BCR	C16-C17-C18-C36

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Mol	Chain	Res	Type	Atoms
43	z1	101	BCR	C20-C21-C22-C37
43	hD	105	BCR	C16-C17-C18-C36
43	zD	101	BCR	C20-C21-C22-C37
43	hE	105	BCR	C16-C17-C18-C36
43	zE	101	BCR	C20-C21-C22-C37
39	a1	408	LMG	C32-C33-C34-C35
33	VB	201	CYC	CAA-CBA-CGA-O1A
33	MG	201	CYC	CAA-CBA-CGA-O1A
33	VL	201	CYC	CAA-CBA-CGA-O1A
33	b2	201	CYC	CAD-CBD-CGD-O1D
33	d2	201	CYC	CAD-CBD-CGD-O1D
33	f2	201	CYC	CAD-CBD-CGD-O1D
33	j2	201	CYC	CAD-CBD-CGD-O1D
33	l2	201	CYC	CAD-CBD-CGD-O1D
33	b3	201	CYC	CAD-CBD-CGD-O1D
33	f3	201	CYC	CAD-CBD-CGD-O1D
33	h3	201	CYC	CAD-CBD-CGD-O1D
33	l3	201	CYC	CAD-CBD-CGD-O1D
33	V4	201	CYC	CAA-CBA-CGA-O1A
33	b5	201	CYC	CAD-CBD-CGD-O1D
33	d5	201	CYC	CAD-CBD-CGD-O1D
33	f5	201	CYC	CAD-CBD-CGD-O1D
33	h5	201	CYC	CAD-CBD-CGD-O1D
33	j5	201	CYC	CAD-CBD-CGD-O1D
33	l5	201	CYC	CAD-CBD-CGD-O1D
33	b6	201	CYC	CAD-CBD-CGD-O1D
33	d6	201	CYC	CAD-CBD-CGD-O1D
33	f6	201	CYC	CAD-CBD-CGD-O1D
33	h6	201	CYC	CAD-CBD-CGD-O1D
33	l6	201	CYC	CAD-CBD-CGD-O1D
33	b7	201	CYC	CAD-CBD-CGD-O1D
33	d7	201	CYC	CAD-CBD-CGD-O1D
33	f7	201	CYC	CAD-CBD-CGD-O1D
33	h7	201	CYC	CAD-CBD-CGD-O1D
33	j7	201	CYC	CAD-CBD-CGD-O1D
33	l7	201	CYC	CAD-CBD-CGD-O1D
33	b8	201	CYC	CAD-CBD-CGD-O1D
33	d8	201	CYC	CAD-CBD-CGD-O1D
33	f8	201	CYC	CAD-CBD-CGD-O1D
33	l8	201	CYC	CAD-CBD-CGD-O1D
33	b9	201	CYC	CAD-CBD-CGD-O1D
33	d9	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
33	f9	201	CYC	CAD-CBD-CGD-O1D
33	j9	201	CYC	CAD-CBD-CGD-O1D
33	l9	201	CYC	CAD-CBD-CGD-O1D
33	bA	201	CYC	CAD-CBD-CGD-O1D
33	fA	201	CYC	CAD-CBD-CGD-O1D
33	lA	201	CYC	CAD-CBD-CGD-O1D
33	bC	201	CYC	CAD-CBD-CGD-O1D
33	dC	201	CYC	CAD-CBD-CGD-O1D
33	fC	201	CYC	CAD-CBD-CGD-O1D
33	hC	201	CYC	CAD-CBD-CGD-O1D
33	jC	201	CYC	CAD-CBD-CGD-O1D
33	lC	201	CYC	CAD-CBD-CGD-O1D
33	lG	201	CYC	CAA-CBA-CGA-O2A
33	bH	201	CYC	CAD-CBD-CGD-O1D
33	dH	201	CYC	CAD-CBD-CGD-O1D
33	fH	201	CYC	CAD-CBD-CGD-O1D
33	jH	201	CYC	CAD-CBD-CGD-O1D
33	lH	201	CYC	CAD-CBD-CGD-O1D
33	bI	201	CYC	CAD-CBD-CGD-O1D
33	dI	201	CYC	CAD-CBD-CGD-O1D
33	fI	201	CYC	CAD-CBD-CGD-O1D
33	jI	201	CYC	CAD-CBD-CGD-O1D
33	lI	201	CYC	CAD-CBD-CGD-O1D
33	bJ	201	CYC	CAD-CBD-CGD-O1D
33	dJ	201	CYC	CAD-CBD-CGD-O1D
33	fJ	201	CYC	CAD-CBD-CGD-O1D
33	jJ	201	CYC	CAD-CBD-CGD-O1D
33	lJ	201	CYC	CAD-CBD-CGD-O1D
33	lL	201	CYC	CAA-CBA-CGA-O2A
33	5L	201	CYC	CAD-CBD-CGD-O1D
36	c1	514	CLA	C2A-CAA-CBA-CGA
36	cD	514	CLA	C2A-CAA-CBA-CGA
36	cE	514	CLA	C2A-CAA-CBA-CGA
38	C1	501	SQD	C14-C15-C16-C17
40	d1	412	LMT	C11-C10-C9-C8
40	DD	412	LMT	C11-C10-C9-C8
40	DE	412	LMT	C11-C10-C9-C8
40	D1	411	LMT	C11-C10-C9-C8
40	dD	412	LMT	C11-C10-C9-C8
38	CD	501	SQD	C14-C15-C16-C17
38	CE	501	SQD	C14-C15-C16-C17
33	IF	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
33	IF	201	CYC	CAD-CBD-CGD-O1D
33	XF	201	CYC	CAA-CBA-CGA-O1A
33	VG	201	CYC	CAA-CBA-CGA-O1A
33	IK	201	CYC	CAA-CBA-CGA-O1A
33	IK	201	CYC	CAD-CBD-CGD-O1D
33	LK	201	CYC	CAA-CBA-CGA-O1A
33	XK	201	CYC	CAA-CBA-CGA-O1A
33	ML	201	CYC	CAA-CBA-CGA-O1A
33	h2	201	CYC	CAD-CBD-CGD-O1D
33	d3	201	CYC	CAD-CBD-CGD-O1D
33	j3	201	CYC	CAD-CBD-CGD-O1D
33	j6	201	CYC	CAD-CBD-CGD-O1D
33	h8	201	CYC	CAD-CBD-CGD-O1D
33	j8	201	CYC	CAD-CBD-CGD-O1D
33	h9	201	CYC	CAD-CBD-CGD-O1D
33	hA	201	CYC	CAD-CBD-CGD-O1D
33	jA	201	CYC	CAD-CBD-CGD-O1D
33	mF	201	CYC	CAA-CBA-CGA-O1A
33	hH	201	CYC	CAD-CBD-CGD-O1D
33	hI	201	CYC	CAD-CBD-CGD-O1D
33	hJ	201	CYC	CAD-CBD-CGD-O1D
33	mK	201	CYC	CAA-CBA-CGA-O1A
43	ZD	101	BCR	C21-C22-C23-C24
43	ZE	101	BCR	C21-C22-C23-C24
43	Z1	101	BCR	C21-C22-C23-C24
33	LF	201	CYC	CAA-CBA-CGA-O1A
33	NG	201	CYC	CAA-CBA-CGA-O1A
33	NG	201	CYC	CAA-CBA-CGA-O2A
33	KK	201	CYC	CAA-CBA-CGA-O2A
33	NL	201	CYC	CAA-CBA-CGA-O1A
33	NL	201	CYC	CAA-CBA-CGA-O2A
33	s4	201	CYC	CAA-CBA-CGA-O1A
33	sB	201	CYC	CAA-CBA-CGA-O1A
33	1G	201	CYC	CAA-CBA-CGA-O1A
33	5G	201	CYC	CAD-CBD-CGD-O1D
33	1L	201	CYC	CAA-CBA-CGA-O1A
44	CD	517	DGD	C1G-C2G-O2G-C1B
44	CE	517	DGD	C1G-C2G-O2G-C1B
44	C1	517	DGD	C1G-C2G-O2G-C1B
36	CD	504	CLA	C1A-C2A-CAA-CBA
36	ID	101	CLA	C1A-C2A-CAA-CBA
36	BE	610	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
36	CE	504	CLA	C1A-C2A-CAA-CBA
36	IE	101	CLA	C1A-C2A-CAA-CBA
36	C1	504	CLA	C1A-C2A-CAA-CBA
36	I1	101	CLA	C1A-C2A-CAA-CBA
36	b1	611	CLA	C1A-C2A-CAA-CBA
36	c1	506	CLA	C1A-C2A-CAA-CBA
36	c1	508	CLA	C1A-C2A-CAA-CBA
36	bD	611	CLA	C1A-C2A-CAA-CBA
36	cD	508	CLA	C1A-C2A-CAA-CBA
36	iD	101	CLA	C1A-C2A-CAA-CBA
36	cE	508	CLA	C1A-C2A-CAA-CBA
36	BD	609	CLA	C11-C10-C8-C7
36	BD	614	CLA	C6-C7-C8-C10
36	BE	614	CLA	C6-C7-C8-C10
36	B1	614	CLA	C6-C7-C8-C10
36	b1	615	CLA	C6-C7-C8-C10
36	c1	507	CLA	C11-C12-C13-C15
36	c1	507	CLA	C12-C13-C15-C16
36	c1	511	CLA	C6-C7-C8-C10
36	bD	610	CLA	C11-C10-C8-C7
36	bD	615	CLA	C6-C7-C8-C10
36	cD	507	CLA	C11-C12-C13-C15
36	cD	507	CLA	C12-C13-C15-C16
36	cD	511	CLA	C6-C7-C8-C10
36	bE	610	CLA	C11-C10-C8-C7
36	bE	615	CLA	C6-C7-C8-C10
36	cE	507	CLA	C11-C12-C13-C15
36	cE	507	CLA	C12-C13-C15-C16
36	cE	511	CLA	C6-C7-C8-C10
45	d1	402	PHO	C12-C13-C15-C16
33	VB	201	CYC	CAD-CBD-CGD-O1D
33	KF	201	CYC	CAA-CBA-CGA-O2A
33	NF	101	CYC	CAD-CBD-CGD-O2D
33	NK	101	CYC	CAD-CBD-CGD-O2D
33	V4	201	CYC	CAD-CBD-CGD-O1D
33	3F	101	CYC	CAA-CBA-CGA-O1A
33	3K	101	CYC	CAA-CBA-CGA-O1A
47	VD	201	HEM	CAD-CBD-CGD-O1D
47	v1	201	HEM	CAD-CBD-CGD-O1D
47	vD	201	HEM	CAD-CBD-CGD-O1D
47	vE	201	HEM	CAD-CBD-CGD-O1D
33	KF	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
33	KK	201	CYC	CAA-CBA-CGA-O1A
47	VD	201	HEM	CAD-CBD-CGD-O2D
47	VE	201	HEM	CAD-CBD-CGD-O1D
47	VE	201	HEM	CAD-CBD-CGD-O2D
47	V1	201	HEM	CAD-CBD-CGD-O1D
47	V1	201	HEM	CAD-CBD-CGD-O2D
47	v1	201	HEM	CAD-CBD-CGD-O2D
47	vD	201	HEM	CAD-CBD-CGD-O2D
47	vE	201	HEM	CAD-CBD-CGD-O2D
36	cE	510	CLA	C5-C6-C7-C8
36	BD	607	CLA	C2A-CAA-CBA-CGA
36	BE	607	CLA	C2A-CAA-CBA-CGA
36	B1	607	CLA	C2A-CAA-CBA-CGA
36	a1	407	CLA	C2A-CAA-CBA-CGA
36	b1	609	CLA	C2A-CAA-CBA-CGA
36	aD	406	CLA	C2A-CAA-CBA-CGA
36	bD	609	CLA	C2A-CAA-CBA-CGA
36	aE	406	CLA	C2A-CAA-CBA-CGA
36	bE	609	CLA	C2A-CAA-CBA-CGA
36	c1	510	CLA	C5-C6-C7-C8
36	cD	510	CLA	C5-C6-C7-C8
39	BD	618	LMG	O8-C28-C29-C30
39	BE	618	LMG	O8-C28-C29-C30
39	B1	618	LMG	O8-C28-C29-C30
39	b1	619	LMG	O8-C28-C29-C30
39	bD	619	LMG	O8-C28-C29-C30
39	bE	619	LMG	O8-C28-C29-C30
33	BB	1002	CYC	CAD-CBD-CGD-O2D
33	BB	1003	CYC	CAA-CBA-CGA-O2A
33	CB	1003	CYC	CAD-CBD-CGD-O2D
33	ZB	201	CYC	CAA-CBA-CGA-O1A
33	KF	201	CYC	CAD-CBD-CGD-O2D
33	XF	201	CYC	CAD-CBD-CGD-O1D
33	ZF	201	CYC	CAA-CBA-CGA-O1A
33	TG	201	CYC	CAA-CBA-CGA-O1A
33	KK	201	CYC	CAD-CBD-CGD-O2D
33	XK	201	CYC	CAD-CBD-CGD-O1D
33	ZK	201	CYC	CAA-CBA-CGA-O1A
33	Z4	201	CYC	CAA-CBA-CGA-O1A
33	q4	201	CYC	CAA-CBA-CGA-O1A
33	B4	1002	CYC	CAD-CBD-CGD-O2D
33	C4	1003	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
33	qB	201	CYC	CAA-CBA-CGA-O1A
33	9F	201	CYC	CAA-CBA-CGA-O1A
33	6G	201	CYC	CAA-CBA-CGA-O1A
33	9K	201	CYC	CAA-CBA-CGA-O1A
33	6L	201	CYC	CAA-CBA-CGA-O1A
33	OB	201	CYC	CAA-CBA-CGA-O2A
33	RB	201	CYC	CAA-CBA-CGA-O1A
33	w4	201	CYC	CAA-CBA-CGA-O2A
33	B4	1003	CYC	CAA-CBA-CGA-O2A
33	O4	201	CYC	CAA-CBA-CGA-O2A
33	R4	201	CYC	CAA-CBA-CGA-O1A
33	sB	201	CYC	CAA-CBA-CGA-O2A
33	wB	201	CYC	CAA-CBA-CGA-O2A
33	kF	201	CYC	CAA-CBA-CGA-O1A
33	kK	201	CYC	CAA-CBA-CGA-O1A
36	BD	606	CLA	C4-C3-C5-C6
36	BE	606	CLA	C4-C3-C5-C6
36	B1	606	CLA	C4-C3-C5-C6
36	b1	608	CLA	C4-C3-C5-C6
36	bD	608	CLA	C4-C3-C5-C6
36	bE	608	CLA	C4-C3-C5-C6
42	e1	101	LHG	C19-C20-C21-C22
42	eD	101	LHG	C19-C20-C21-C22
42	eE	101	LHG	C19-C20-C21-C22
33	BB	1001	CYC	CAA-CBA-CGA-O1A
33	CB	1001	CYC	CAA-CBA-CGA-O1A
33	SB	201	CYC	CAA-CBA-CGA-O1A
33	TG	201	CYC	CAA-CBA-CGA-O2A
33	VG	201	CYC	CAD-CBD-CGD-O2D
33	TL	201	CYC	CAA-CBA-CGA-O1A
33	VL	201	CYC	CAD-CBD-CGD-O2D
33	S4	201	CYC	CAA-CBA-CGA-O1A
33	s4	201	CYC	CAA-CBA-CGA-O2A
33	w4	201	CYC	CAA-CBA-CGA-O1A
33	y4	201	CYC	CAA-CBA-CGA-O1A
33	y4	201	CYC	CAA-CBA-CGA-O2A
33	B4	1001	CYC	CAA-CBA-CGA-O1A
33	C4	1001	CYC	CAA-CBA-CGA-O1A
33	yB	201	CYC	CAA-CBA-CGA-O1A
33	yB	201	CYC	CAA-CBA-CGA-O2A
33	bF	201	CYC	CAA-CBA-CGA-O1A
33	bF	201	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
33	3F	101	CYC	CAA-CBA-CGA-O2A
33	fF	201	CYC	CAA-CBA-CGA-O1A
33	mF	201	CYC	CAD-CBD-CGD-O2D
33	2G	101	CYC	CAA-CBA-CGA-O2A
33	7G	201	CYC	CAA-CBA-CGA-O1A
33	bK	201	CYC	CAA-CBA-CGA-O1A
33	bK	201	CYC	CAA-CBA-CGA-O2A
33	3K	101	CYC	CAA-CBA-CGA-O2A
33	fK	201	CYC	CAA-CBA-CGA-O1A
33	mK	201	CYC	CAD-CBD-CGD-O2D
33	4L	201	CYC	CAA-CBA-CGA-O1A
33	7L	201	CYC	CAA-CBA-CGA-O1A
36	c1	514	CLA	C8-C10-C11-C12
36	cD	514	CLA	C8-C10-C11-C12
36	cE	514	CLA	C8-C10-C11-C12
36	BD	606	CLA	CBD-CGD-O2D-CED
36	B1	606	CLA	CBD-CGD-O2D-CED
42	DE	410	LHG	C31-C32-C33-C34
42	d1	410	LHG	C31-C32-C33-C34
43	XD	102	BCR	C16-C17-C18-C19
43	ZD	101	BCR	C20-C21-C22-C23
43	XE	102	BCR	C16-C17-C18-C19
43	ZE	101	BCR	C20-C21-C22-C23
43	X1	102	BCR	C16-C17-C18-C19
43	Z1	101	BCR	C20-C21-C22-C23
43	h1	105	BCR	C16-C17-C18-C19
43	z1	101	BCR	C20-C21-C22-C23
43	hD	105	BCR	C16-C17-C18-C19
43	zD	101	BCR	C20-C21-C22-C23
43	hE	105	BCR	C16-C17-C18-C19
43	zE	101	BCR	C20-C21-C22-C23
45	DE	403	PHO	C13-C15-C16-C17
33	CB	1002	CYC	CAA-CBA-CGA-O2A
33	TL	201	CYC	CAA-CBA-CGA-O2A
33	C4	1002	CYC	CAA-CBA-CGA-O2A
33	wB	201	CYC	CAA-CBA-CGA-O1A
33	2G	101	CYC	CAA-CBA-CGA-O1A
33	4G	201	CYC	CAA-CBA-CGA-O1A
33	2L	101	CYC	CAA-CBA-CGA-O1A
42	DD	410	LHG	C31-C32-C33-C34
39	a1	408	LMG	O7-C8-C9-O8
39	a1	410	LMG	O7-C8-C9-O8

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Mol	Chain	Res	Type	Atoms
39	aD	407	LMG	O7-C8-C9-O8
39	aD	409	LMG	O7-C8-C9-O8
39	aE	407	LMG	O7-C8-C9-O8
39	aE	409	LMG	O7-C8-C9-O8
42	D1	409	LHG	C31-C32-C33-C34
42	dD	410	LHG	C31-C32-C33-C34
40	dD	413	LMT	C2-C3-C4-C5
33	VB	201	CYC	CAD-CBD-CGD-O2D
33	ZB	201	CYC	CAA-CBA-CGA-O2A
33	ZF	201	CYC	CAA-CBA-CGA-O2A
33	ZK	201	CYC	CAA-CBA-CGA-O2A
33	Z4	201	CYC	CAA-CBA-CGA-O2A
33	T4	201	CYC	CAA-CBA-CGA-O1A
33	C4	1003	CYC	CAA-CBA-CGA-O2A
33	aF	201	CYC	CAA-CBA-CGA-O1A
33	2L	101	CYC	CAA-CBA-CGA-O2A
33	4L	201	CYC	CAA-CBA-CGA-O2A
47	ED	101	HEM	CAA-CBA-CGA-O2A
47	E1	101	HEM	CAA-CBA-CGA-O2A
47	fD	101	HEM	CAA-CBA-CGA-O2A
40	dE	413	LMT	C2-C3-C4-C5
42	dE	410	LHG	C31-C32-C33-C34
44	c1	518	DGD	C1B-C2B-C3B-C4B
40	d1	413	LMT	C2-C3-C4-C5
33	CB	1001	CYC	CAA-CBA-CGA-O2A
33	RB	201	CYC	CAD-CBD-CGD-O2D
33	TB	201	CYC	CAA-CBA-CGA-O1A
33	JG	201	CYC	CAA-CBA-CGA-O1A
33	LG	201	CYC	CAA-CBA-CGA-O2A
33	QG	201	CYC	CAD-CBD-CGD-O2D
33	JL	201	CYC	CAA-CBA-CGA-O1A
33	LL	201	CYC	CAA-CBA-CGA-O2A
33	QL	201	CYC	CAD-CBD-CGD-O2D
33	j2	202	CYC	CAA-CBA-CGA-O2A
33	j3	202	CYC	CAA-CBA-CGA-O2A
33	V4	201	CYC	CAD-CBD-CGD-O2D
33	R4	201	CYC	CAD-CBD-CGD-O2D
33	j5	202	CYC	CAA-CBA-CGA-O2A
33	j6	202	CYC	CAA-CBA-CGA-O2A
33	j7	202	CYC	CAA-CBA-CGA-O2A
33	j8	202	CYC	CAA-CBA-CGA-O2A
33	j9	202	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
33	jA	202	CYC	CAA-CBA-CGA-O2A
33	jC	202	CYC	CAA-CBA-CGA-O2A
33	gF	201	CYC	CAD-CBD-CGD-O2D
33	4G	201	CYC	CAA-CBA-CGA-O2A
33	jH	202	CYC	CAA-CBA-CGA-O2A
33	jI	202	CYC	CAA-CBA-CGA-O2A
33	jJ	202	CYC	CAA-CBA-CGA-O2A
33	aK	201	CYC	CAA-CBA-CGA-O1A
33	gK	201	CYC	CAD-CBD-CGD-O2D
36	DD	405	CLA	C2-C1-O2A-CGA
36	DE	405	CLA	C2-C1-O2A-CGA
36	D1	404	CLA	C2-C1-O2A-CGA
36	d1	405	CLA	C2-C1-O2A-CGA
36	dD	405	CLA	C2-C1-O2A-CGA
36	dE	405	CLA	C2-C1-O2A-CGA
33	MG	201	CYC	C2C-C3C-CAC-CBC
33	ML	201	CYC	C2C-C3C-CAC-CBC
37	AD	406	PL9	C43-C44-C46-C47
37	AE	406	PL9	C43-C44-C46-C47
37	A1	406	PL9	C43-C44-C46-C47
37	a1	409	PL9	C43-C44-C46-C47
37	aD	408	PL9	C43-C44-C46-C47
37	aE	408	PL9	C43-C44-C46-C47
36	bD	608	CLA	CBD-CGD-O2D-CED
36	bE	608	CLA	CBD-CGD-O2D-CED
33	BB	1002	CYC	CAA-CBA-CGA-O2A
33	CB	1003	CYC	CAA-CBA-CGA-O2A
33	QB	201	CYC	CAA-CBA-CGA-O2A
33	MG	201	CYC	CAA-CBA-CGA-O2A
33	c2	202	CYC	CAA-CBA-CGA-O2A
33	e2	202	CYC	CAA-CBA-CGA-O2A
33	g2	201	CYC	CAA-CBA-CGA-O2A
33	i2	201	CYC	CAA-CBA-CGA-O2A
33	m2	201	CYC	CAA-CBA-CGA-O2A
33	c3	202	CYC	CAA-CBA-CGA-O2A
33	e3	202	CYC	CAA-CBA-CGA-O2A
33	g3	201	CYC	CAA-CBA-CGA-O2A
33	i3	201	CYC	CAA-CBA-CGA-O2A
33	m3	201	CYC	CAA-CBA-CGA-O2A
33	B4	1002	CYC	CAA-CBA-CGA-O2A
33	C4	1001	CYC	CAA-CBA-CGA-O2A
33	O4	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
33	Q4	201	CYC	CAA-CBA-CGA-O2A
33	c5	202	CYC	CAA-CBA-CGA-O2A
33	e5	202	CYC	CAA-CBA-CGA-O2A
33	g5	201	CYC	CAA-CBA-CGA-O2A
33	i5	201	CYC	CAA-CBA-CGA-O2A
33	m5	201	CYC	CAA-CBA-CGA-O2A
33	c6	202	CYC	CAA-CBA-CGA-O2A
33	e6	202	CYC	CAA-CBA-CGA-O2A
33	g6	201	CYC	CAA-CBA-CGA-O2A
33	i6	201	CYC	CAA-CBA-CGA-O2A
33	m6	201	CYC	CAA-CBA-CGA-O2A
33	c7	202	CYC	CAA-CBA-CGA-O2A
33	e7	202	CYC	CAA-CBA-CGA-O2A
33	g7	201	CYC	CAA-CBA-CGA-O2A
33	i7	201	CYC	CAA-CBA-CGA-O2A
33	m7	201	CYC	CAA-CBA-CGA-O2A
33	c8	202	CYC	CAA-CBA-CGA-O2A
33	e8	202	CYC	CAA-CBA-CGA-O2A
33	i8	201	CYC	CAA-CBA-CGA-O2A
33	m8	201	CYC	CAA-CBA-CGA-O2A
33	c9	202	CYC	CAA-CBA-CGA-O2A
33	e9	202	CYC	CAA-CBA-CGA-O2A
33	g9	201	CYC	CAA-CBA-CGA-O2A
33	i9	201	CYC	CAA-CBA-CGA-O2A
33	m9	201	CYC	CAA-CBA-CGA-O2A
33	cA	202	CYC	CAA-CBA-CGA-O2A
33	eA	202	CYC	CAA-CBA-CGA-O2A
33	gA	201	CYC	CAA-CBA-CGA-O2A
33	iA	201	CYC	CAA-CBA-CGA-O2A
33	mA	201	CYC	CAA-CBA-CGA-O2A
33	cC	202	CYC	CAA-CBA-CGA-O2A
33	eC	202	CYC	CAA-CBA-CGA-O2A
33	gC	201	CYC	CAA-CBA-CGA-O2A
33	iC	201	CYC	CAA-CBA-CGA-O2A
33	mC	201	CYC	CAA-CBA-CGA-O2A
33	5G	201	CYC	CAD-CBD-CGD-O2D
33	cH	202	CYC	CAA-CBA-CGA-O2A
33	eH	202	CYC	CAA-CBA-CGA-O2A
33	gH	201	CYC	CAA-CBA-CGA-O2A
33	iH	201	CYC	CAA-CBA-CGA-O2A
33	mH	201	CYC	CAA-CBA-CGA-O2A
33	cI	202	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
33	eI	202	CYC	CAA-CBA-CGA-O2A
33	gI	201	CYC	CAA-CBA-CGA-O2A
33	iI	201	CYC	CAA-CBA-CGA-O2A
33	mI	201	CYC	CAA-CBA-CGA-O2A
33	cJ	202	CYC	CAA-CBA-CGA-O2A
33	eJ	202	CYC	CAA-CBA-CGA-O2A
33	gJ	201	CYC	CAA-CBA-CGA-O2A
33	iJ	201	CYC	CAA-CBA-CGA-O2A
33	mJ	201	CYC	CAA-CBA-CGA-O2A
33	5L	201	CYC	CAD-CBD-CGD-O2D
47	EE	101	HEM	CAA-CBA-CGA-O2A
47	fI	101	HEM	CAA-CBA-CGA-O2A
47	fE	101	HEM	CAA-CBA-CGA-O2A
36	cD	506	CLA	C11-C10-C8-C9
36	cE	506	CLA	C11-C10-C8-C9
36	BE	606	CLA	CBD-CGD-O2D-CED
36	b1	608	CLA	CBD-CGD-O2D-CED
33	CB	1002	CYC	CAA-CBA-CGA-O1A
33	OB	201	CYC	CAA-CBA-CGA-O1A
33	ML	201	CYC	CAA-CBA-CGA-O2A
33	g8	201	CYC	CAA-CBA-CGA-O2A
44	cD	518	DGD	C1B-C2B-C3B-C4B
36	a1	405	CLA	C2A-CAA-CBA-CGA
36	c1	512	CLA	C2A-CAA-CBA-CGA
36	aD	404	CLA	C2A-CAA-CBA-CGA
36	cD	512	CLA	C2A-CAA-CBA-CGA
36	aE	404	CLA	C2A-CAA-CBA-CGA
36	a1	407	CLA	C11-C12-C13-C14
36	aD	406	CLA	C11-C12-C13-C14
36	aE	406	CLA	C11-C12-C13-C14
33	C4	1002	CYC	CAA-CBA-CGA-O1A
33	9F	201	CYC	CAA-CBA-CGA-O2A
33	9K	201	CYC	CAA-CBA-CGA-O2A
44	cE	518	DGD	C1B-C2B-C3B-C4B
43	BD	615	BCR	C1-C6-C7-C8
43	BE	615	BCR	C1-C6-C7-C8
43	B1	615	BCR	C1-C6-C7-C8
43	b1	616	BCR	C1-C6-C7-C8
43	bD	616	BCR	C1-C6-C7-C8
43	bE	616	BCR	C1-C6-C7-C8
39	a1	410	LMG	C7-C8-C9-O8
39	aD	409	LMG	C7-C8-C9-O8

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Mol	Chain	Res	Type	Atoms
39	aE	409	LMG	C7-C8-C9-O8
33	WB	201	CYC	CAD-CBD-CGD-O1D
33	W4	201	CYC	CAD-CBD-CGD-O1D
33	gF	201	CYC	CAA-CBA-CGA-O1A
36	BD	611	CLA	C13-C15-C16-C17
36	BE	611	CLA	C13-C15-C16-C17
33	dK	201	CYC	C2B-C3B-CAB-CBB
36	c1	505	CLA	C4-C3-C5-C6
36	cD	506	CLA	C4-C3-C5-C6
36	cE	506	CLA	C4-C3-C5-C6
33	TB	201	CYC	C4C-C3C-CAC-CBC
33	T4	201	CYC	C4C-C3C-CAC-CBC
33	u4	201	CYC	C4C-C3C-CAC-CBC
33	uB	201	CYC	C4C-C3C-CAC-CBC
43	z1	101	BCR	C21-C22-C23-C24
43	zD	101	BCR	C21-C22-C23-C24
43	zE	101	BCR	C21-C22-C23-C24
36	CD	511	CLA	C10-C11-C12-C13
36	CE	511	CLA	C10-C11-C12-C13
36	B1	611	CLA	C13-C15-C16-C17
36	C1	511	CLA	C10-C11-C12-C13
36	b1	612	CLA	C13-C15-C16-C17
33	hF	201	CYC	C2B-C3B-CAB-CBB
33	hK	201	CYC	C2B-C3B-CAB-CBB
33	LF	201	CYC	C2A-CAA-CBA-CGA
33	GG	201	CYC	C2A-CAA-CBA-CGA
33	LK	201	CYC	C2A-CAA-CBA-CGA
33	GL	201	CYC	C2A-CAA-CBA-CGA
33	SB	201	CYC	CAA-CBA-CGA-O2A
33	XF	201	CYC	CAD-CBD-CGD-O2D
33	QG	201	CYC	CAA-CBA-CGA-O1A
33	XK	201	CYC	CAD-CBD-CGD-O2D
33	QL	201	CYC	CAA-CBA-CGA-O1A
33	b3	201	CYC	CAD-CBD-CGD-O2D
33	S4	201	CYC	CAA-CBA-CGA-O2A
33	T4	201	CYC	CAA-CBA-CGA-O2A
33	d7	201	CYC	CAD-CBD-CGD-O2D
33	f8	201	CYC	CAD-CBD-CGD-O2D
33	lH	201	CYC	CAD-CBD-CGD-O2D
33	jJ	201	CYC	CAD-CBD-CGD-O2D
33	gK	201	CYC	CAA-CBA-CGA-O1A
36	bD	612	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
36	bE	612	CLA	C13-C15-C16-C17
33	YF	201	CYC	C2B-C3B-CAB-CBB
33	dF	201	CYC	C2B-C3B-CAB-CBB
33	h2	201	CYC	CAD-CBD-CGD-O2D
33	j2	201	CYC	CAD-CBD-CGD-O2D
33	d3	201	CYC	CAD-CBD-CGD-O2D
33	h3	201	CYC	CAD-CBD-CGD-O2D
33	j3	201	CYC	CAD-CBD-CGD-O2D
33	l3	201	CYC	CAD-CBD-CGD-O2D
33	o4	201	CYC	CAA-CBA-CGA-O2A
33	b5	201	CYC	CAD-CBD-CGD-O2D
33	h5	201	CYC	CAD-CBD-CGD-O2D
33	j5	201	CYC	CAD-CBD-CGD-O2D
33	l5	201	CYC	CAD-CBD-CGD-O2D
33	b6	201	CYC	CAD-CBD-CGD-O2D
33	h6	201	CYC	CAD-CBD-CGD-O2D
33	j6	201	CYC	CAD-CBD-CGD-O2D
33	l6	201	CYC	CAD-CBD-CGD-O2D
33	h7	201	CYC	CAD-CBD-CGD-O2D
33	j7	201	CYC	CAD-CBD-CGD-O2D
33	b8	201	CYC	CAD-CBD-CGD-O2D
33	h8	201	CYC	CAD-CBD-CGD-O2D
33	j8	201	CYC	CAD-CBD-CGD-O2D
33	l8	201	CYC	CAD-CBD-CGD-O2D
33	b9	201	CYC	CAD-CBD-CGD-O2D
33	h9	201	CYC	CAD-CBD-CGD-O2D
33	j9	201	CYC	CAD-CBD-CGD-O2D
33	hA	201	CYC	CAD-CBD-CGD-O2D
33	jA	201	CYC	CAD-CBD-CGD-O2D
33	oB	201	CYC	CAA-CBA-CGA-O2A
33	bC	201	CYC	CAD-CBD-CGD-O2D
33	hC	201	CYC	CAD-CBD-CGD-O2D
33	jC	201	CYC	CAD-CBD-CGD-O2D
33	aF	201	CYC	CAA-CBA-CGA-O2A
33	bH	201	CYC	CAD-CBD-CGD-O2D
33	hH	201	CYC	CAD-CBD-CGD-O2D
33	jH	201	CYC	CAD-CBD-CGD-O2D
33	bI	201	CYC	CAD-CBD-CGD-O2D
33	hI	201	CYC	CAD-CBD-CGD-O2D
33	jI	201	CYC	CAD-CBD-CGD-O2D
33	hJ	201	CYC	CAD-CBD-CGD-O2D
33	aK	201	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
39	CE	502	LMG	C30-C31-C32-C33
36	BD	602	CLA	C16-C17-C18-C20
36	BE	602	CLA	C16-C17-C18-C20
36	B1	602	CLA	C16-C17-C18-C20
36	b1	604	CLA	C16-C17-C18-C20
36	bD	604	CLA	C16-C17-C18-C20
36	bE	604	CLA	C16-C17-C18-C20
36	CD	515	CLA	C3-C5-C6-C7
33	BB	1002	CYC	CAA-CBA-CGA-O1A
33	CB	1003	CYC	CAA-CBA-CGA-O1A
33	TB	201	CYC	CAA-CBA-CGA-O2A
33	b2	201	CYC	CAD-CBD-CGD-O2D
33	d2	201	CYC	CAD-CBD-CGD-O2D
33	f2	201	CYC	CAD-CBD-CGD-O2D
33	l2	201	CYC	CAD-CBD-CGD-O2D
33	f3	201	CYC	CAD-CBD-CGD-O2D
33	B4	1002	CYC	CAA-CBA-CGA-O1A
33	C4	1003	CYC	CAA-CBA-CGA-O1A
33	d5	201	CYC	CAD-CBD-CGD-O2D
33	f5	201	CYC	CAD-CBD-CGD-O2D
33	d6	201	CYC	CAD-CBD-CGD-O2D
33	f6	201	CYC	CAD-CBD-CGD-O2D
33	b7	201	CYC	CAD-CBD-CGD-O2D
33	f7	201	CYC	CAD-CBD-CGD-O2D
33	l7	201	CYC	CAD-CBD-CGD-O2D
33	d8	201	CYC	CAD-CBD-CGD-O2D
33	d9	201	CYC	CAD-CBD-CGD-O2D
33	f9	201	CYC	CAD-CBD-CGD-O2D
33	l9	201	CYC	CAD-CBD-CGD-O2D
33	bA	201	CYC	CAD-CBD-CGD-O2D
33	dA	201	CYC	CAD-CBD-CGD-O2D
33	fA	201	CYC	CAD-CBD-CGD-O2D
33	lA	201	CYC	CAD-CBD-CGD-O2D
33	dC	201	CYC	CAD-CBD-CGD-O2D
33	fC	201	CYC	CAD-CBD-CGD-O2D
33	lC	201	CYC	CAD-CBD-CGD-O2D
33	dH	201	CYC	CAD-CBD-CGD-O2D
33	fH	201	CYC	CAD-CBD-CGD-O2D
33	dI	201	CYC	CAD-CBD-CGD-O2D
33	fI	201	CYC	CAD-CBD-CGD-O2D
33	lI	201	CYC	CAD-CBD-CGD-O2D
33	bJ	201	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
33	dJ	201	CYC	CAD-CBD-CGD-O2D
33	fJ	201	CYC	CAD-CBD-CGD-O2D
33	lJ	201	CYC	CAD-CBD-CGD-O2D
36	cE	512	CLA	C2A-CAA-CBA-CGA
39	CD	502	LMG	C30-C31-C32-C33
39	C1	502	LMG	C30-C31-C32-C33
33	YK	201	CYC	C2B-C3B-CAB-CBB
36	CE	515	CLA	C3-C5-C6-C7
36	C1	515	CLA	C3-C5-C6-C7
33	o4	201	CYC	CAA-CBA-CGA-O1A
33	oB	201	CYC	CAA-CBA-CGA-O1A
33	kF	201	CYC	CAA-CBA-CGA-O2A
33	7G	201	CYC	CAA-CBA-CGA-O2A
33	kK	201	CYC	CAA-CBA-CGA-O2A
33	7L	201	CYC	CAA-CBA-CGA-O2A
40	B1	623	LMT	C7-C8-C9-C10
37	a1	409	PL9	C30-C29-C31-C32
37	aD	408	PL9	C30-C29-C31-C32
37	aE	408	PL9	C30-C29-C31-C32
42	BD	620	LHG	C8-C7-O7-C5
42	BE	620	LHG	C8-C7-O7-C5
42	B1	621	LHG	C8-C7-O7-C5
36	BE	606	CLA	O1D-CGD-O2D-CED
40	BD	623	LMT	C7-C8-C9-C10
40	BE	623	LMT	C7-C8-C9-C10
36	CD	506	CLA	C11-C12-C13-C15
36	BE	609	CLA	C11-C10-C8-C7
36	CE	506	CLA	C11-C12-C13-C15
36	B1	609	CLA	C11-C10-C8-C7
36	C1	506	CLA	C11-C12-C13-C15
36	b1	610	CLA	C11-C10-C8-C7
36	c1	508	CLA	C11-C10-C8-C7
36	cD	508	CLA	C11-C10-C8-C7
36	cE	508	CLA	C11-C10-C8-C7
33	WB	201	CYC	CAA-CBA-CGA-O2A
33	RG	201	CYC	CAA-CBA-CGA-O1A
33	RL	201	CYC	CAA-CBA-CGA-O1A
33	W4	201	CYC	CAA-CBA-CGA-O2A
33	uB	201	CYC	CAA-CBA-CGA-O2A
36	BD	606	CLA	O1D-CGD-O2D-CED
42	a1	412	LHG	O1-C1-C2-O2
42	aD	411	LHG	O1-C1-C2-O2

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Mol	Chain	Res	Type	Atoms
42	aE	411	LHG	O1-C1-C2-O2
36	CD	515	CLA	C16-C17-C18-C19
36	C1	515	CLA	C16-C17-C18-C19
33	PB	201	CYC	CAD-CBD-CGD-O2D
33	WB	201	CYC	CAA-CBA-CGA-O1A
33	W4	201	CYC	CAA-CBA-CGA-O1A
33	u4	201	CYC	CAA-CBA-CGA-O2A
33	P4	201	CYC	CAD-CBD-CGD-O2D
42	DD	410	LHG	C1-C2-C3-O3
42	DE	410	LHG	C1-C2-C3-O3
42	D1	409	LHG	C1-C2-C3-O3
42	d1	410	LHG	C1-C2-C3-O3
42	dD	410	LHG	C1-C2-C3-O3
42	dE	410	LHG	C1-C2-C3-O3
38	DD	414	SQD	O47-C45-C46-O48
38	DE	414	SQD	O47-C45-C46-O48
38	D1	413	SQD	O47-C45-C46-O48
38	d1	414	SQD	O47-C45-C46-O48
38	dD	414	SQD	O47-C45-C46-O48
38	dE	414	SQD	O47-C45-C46-O48
39	JD	102	LMG	O7-C8-C9-O8
39	JE	102	LMG	O7-C8-C9-O8
39	J1	102	LMG	O7-C8-C9-O8
39	d1	411	LMG	C18-C19-C20-C21
39	dD	411	LMG	C18-C19-C20-C21
33	RG	201	CYC	CAA-CBA-CGA-O2A
33	RL	201	CYC	CAA-CBA-CGA-O2A
33	g2	201	CYC	CAA-CBA-CGA-O1A
33	j2	202	CYC	CAA-CBA-CGA-O1A
33	m2	201	CYC	CAA-CBA-CGA-O1A
33	c3	202	CYC	CAA-CBA-CGA-O1A
33	g3	201	CYC	CAA-CBA-CGA-O1A
33	j3	202	CYC	CAA-CBA-CGA-O1A
33	m3	201	CYC	CAA-CBA-CGA-O1A
33	g5	201	CYC	CAA-CBA-CGA-O1A
33	i5	201	CYC	CAA-CBA-CGA-O1A
33	j5	202	CYC	CAA-CBA-CGA-O1A
33	m5	201	CYC	CAA-CBA-CGA-O1A
33	j6	202	CYC	CAA-CBA-CGA-O1A
33	m6	201	CYC	CAA-CBA-CGA-O1A
33	g7	201	CYC	CAA-CBA-CGA-O1A
33	i7	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
33	j7	202	CYC	CAA-CBA-CGA-O1A
33	m7	201	CYC	CAA-CBA-CGA-O1A
33	c8	202	CYC	CAA-CBA-CGA-O1A
33	g8	201	CYC	CAA-CBA-CGA-O1A
33	j8	202	CYC	CAA-CBA-CGA-O1A
33	m8	201	CYC	CAA-CBA-CGA-O1A
33	e9	202	CYC	CAA-CBA-CGA-O1A
33	g9	201	CYC	CAA-CBA-CGA-O1A
33	j9	202	CYC	CAA-CBA-CGA-O1A
33	m9	201	CYC	CAA-CBA-CGA-O1A
33	cA	202	CYC	CAA-CBA-CGA-O1A
33	gA	201	CYC	CAA-CBA-CGA-O1A
33	iA	201	CYC	CAA-CBA-CGA-O1A
33	jA	202	CYC	CAA-CBA-CGA-O1A
33	mA	201	CYC	CAA-CBA-CGA-O1A
33	cC	202	CYC	CAA-CBA-CGA-O1A
33	gC	201	CYC	CAA-CBA-CGA-O1A
33	jC	202	CYC	CAA-CBA-CGA-O1A
33	mC	201	CYC	CAA-CBA-CGA-O1A
33	gH	201	CYC	CAA-CBA-CGA-O1A
33	jH	202	CYC	CAA-CBA-CGA-O1A
33	mH	201	CYC	CAA-CBA-CGA-O1A
33	cI	202	CYC	CAA-CBA-CGA-O1A
33	gI	201	CYC	CAA-CBA-CGA-O1A
33	jI	202	CYC	CAA-CBA-CGA-O1A
33	mI	201	CYC	CAA-CBA-CGA-O1A
33	cJ	202	CYC	CAA-CBA-CGA-O1A
33	gJ	201	CYC	CAA-CBA-CGA-O1A
33	mJ	201	CYC	CAA-CBA-CGA-O1A
47	ED	101	HEM	CAD-CBD-CGD-O1D
47	E1	101	HEM	CAD-CBD-CGD-O1D
47	f1	101	HEM	CAD-CBD-CGD-O1D
47	fD	101	HEM	CAD-CBD-CGD-O1D
47	fE	101	HEM	CAD-CBD-CGD-O1D
39	dE	411	LMG	C18-C19-C20-C21
36	IE	101	CLA	O1A-CGA-O2A-C1
36	BD	602	CLA	C2A-CAA-CBA-CGA
36	BE	602	CLA	C2A-CAA-CBA-CGA
36	c1	507	CLA	C2A-CAA-CBA-CGA
36	cD	507	CLA	C2A-CAA-CBA-CGA
36	cE	507	CLA	C2A-CAA-CBA-CGA
39	DD	411	LMG	C18-C19-C20-C21

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Mol	Chain	Res	Type	Atoms
39	DE	411	LMG	C18-C19-C20-C21
36	CE	515	CLA	C16-C17-C18-C19
37	d1	408	PL9	C2-C3-C7-C8
37	dD	408	PL9	C2-C3-C7-C8
37	dE	408	PL9	C2-C3-C7-C8
42	l1	101	LHG	C8-C7-O7-C5
42	lD	101	LHG	C8-C7-O7-C5
42	lE	101	LHG	C8-C7-O7-C5
33	SB	201	CYC	CAD-CBD-CGD-O2D
33	c2	202	CYC	CAA-CBA-CGA-O1A
33	i2	201	CYC	CAA-CBA-CGA-O1A
33	S4	201	CYC	CAD-CBD-CGD-O2D
33	c6	202	CYC	CAA-CBA-CGA-O1A
33	g6	201	CYC	CAA-CBA-CGA-O1A
33	e8	202	CYC	CAA-CBA-CGA-O1A
33	i8	201	CYC	CAA-CBA-CGA-O1A
33	eA	202	CYC	CAA-CBA-CGA-O1A
33	cH	202	CYC	CAA-CBA-CGA-O1A
33	iH	201	CYC	CAA-CBA-CGA-O1A
33	iI	201	CYC	CAA-CBA-CGA-O1A
33	iJ	201	CYC	CAA-CBA-CGA-O1A
33	jJ	202	CYC	CAA-CBA-CGA-O1A
33	7L	201	CYC	CAD-CBD-CGD-O2D
47	EE	101	HEM	CAD-CBD-CGD-O1D
36	B1	606	CLA	O1D-CGD-O2D-CED
36	BD	611	CLA	CBA-CGA-O2A-C1
36	BE	611	CLA	CBA-CGA-O2A-C1
36	B1	611	CLA	CBA-CGA-O2A-C1
36	b1	612	CLA	CBA-CGA-O2A-C1
36	bD	612	CLA	CBA-CGA-O2A-C1
36	bE	612	CLA	CBA-CGA-O2A-C1
36	I1	101	CLA	O1A-CGA-O2A-C1
39	D1	410	LMG	C18-C19-C20-C21
40	AD	412	LMT	C9-C10-C11-C12
40	AE	412	LMT	C9-C10-C11-C12
40	A1	413	LMT	C9-C10-C11-C12
36	BD	604	CLA	C4-C3-C5-C6
36	BE	604	CLA	C4-C3-C5-C6
36	B1	604	CLA	C4-C3-C5-C6
36	b1	606	CLA	C4-C3-C5-C6
36	bD	606	CLA	C4-C3-C5-C6
36	bE	606	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
37	DD	408	PL9	C20-C19-C21-C22
37	DE	408	PL9	C20-C19-C21-C22
37	D1	407	PL9	C20-C19-C21-C22
37	d1	408	PL9	C20-C19-C21-C22
37	dD	408	PL9	C20-C19-C21-C22
37	dE	408	PL9	C20-C19-C21-C22
36	C1	515	CLA	C15-C16-C17-C18
47	VD	201	HEM	C3D-CAD-CBD-CGD
47	VE	201	HEM	C3D-CAD-CBD-CGD
47	V1	201	HEM	C3D-CAD-CBD-CGD
47	v1	201	HEM	C3D-CAD-CBD-CGD
47	vD	201	HEM	C3D-CAD-CBD-CGD
47	vE	201	HEM	C3D-CAD-CBD-CGD
33	aF	201	CYC	C2B-C3B-CAB-CBB
33	e2	202	CYC	CAA-CBA-CGA-O1A
33	e3	202	CYC	CAA-CBA-CGA-O1A
33	i3	201	CYC	CAA-CBA-CGA-O1A
33	c5	202	CYC	CAA-CBA-CGA-O1A
33	e5	202	CYC	CAA-CBA-CGA-O1A
33	e6	202	CYC	CAA-CBA-CGA-O1A
33	i6	201	CYC	CAA-CBA-CGA-O1A
33	c7	202	CYC	CAA-CBA-CGA-O1A
33	e7	202	CYC	CAA-CBA-CGA-O1A
33	c9	202	CYC	CAA-CBA-CGA-O1A
33	i9	201	CYC	CAA-CBA-CGA-O1A
33	eC	202	CYC	CAA-CBA-CGA-O1A
33	iC	201	CYC	CAA-CBA-CGA-O1A
33	1G	201	CYC	CAD-CBD-CGD-O2D
33	7G	201	CYC	CAD-CBD-CGD-O2D
33	eH	202	CYC	CAA-CBA-CGA-O1A
33	eI	202	CYC	CAA-CBA-CGA-O1A
33	eJ	202	CYC	CAA-CBA-CGA-O1A
33	1L	201	CYC	CAD-CBD-CGD-O2D
36	ID	101	CLA	O1A-CGA-O2A-C1
36	BD	603	CLA	C2-C3-C5-C6
36	BD	606	CLA	C2-C3-C5-C6
36	XD	101	CLA	C2-C3-C5-C6
36	BE	603	CLA	C2-C3-C5-C6
36	BE	606	CLA	C2-C3-C5-C6
36	XE	101	CLA	C2-C3-C5-C6
36	B1	603	CLA	C2-C3-C5-C6
36	B1	606	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
36	X1	101	CLA	C2-C3-C5-C6
36	b1	605	CLA	C2-C3-C5-C6
36	b1	608	CLA	C2-C3-C5-C6
36	x1	101	CLA	C2-C3-C5-C6
36	bD	605	CLA	C2-C3-C5-C6
36	bD	608	CLA	C2-C3-C5-C6
36	xD	101	CLA	C2-C3-C5-C6
36	bE	605	CLA	C2-C3-C5-C6
36	bE	608	CLA	C2-C3-C5-C6
36	xE	101	CLA	C2-C3-C5-C6
33	aK	201	CYC	C2B-C3B-CAB-CBB
39	yE	101	LMG	C16-C17-C18-C19
39	ME	101	LMG	O6-C5-C6-O5
39	j1	102	LMG	O10-C28-C29-C30
39	jD	102	LMG	O10-C28-C29-C30
39	jE	102	LMG	O10-C28-C29-C30
36	cD	506	CLA	C16-C17-C18-C20
38	h1	103	SQD	O47-C7-C8-C9
38	hD	103	SQD	O47-C7-C8-C9
38	hE	103	SQD	O47-C7-C8-C9
36	AD	405	CLA	C14-C13-C15-C16
36	BD	603	CLA	C6-C7-C8-C9
36	BD	608	CLA	C11-C10-C8-C9
36	CD	506	CLA	C11-C10-C8-C9
36	CD	508	CLA	C14-C13-C15-C16
36	XD	101	CLA	C14-C13-C15-C16
36	AE	405	CLA	C14-C13-C15-C16
36	BE	603	CLA	C6-C7-C8-C9
36	BE	608	CLA	C11-C10-C8-C9
36	CE	506	CLA	C11-C10-C8-C9
36	CE	508	CLA	C14-C13-C15-C16
36	A1	405	CLA	C14-C13-C15-C16
36	B1	603	CLA	C6-C7-C8-C9
36	B1	608	CLA	C11-C10-C8-C9
36	C1	506	CLA	C11-C10-C8-C9
36	C1	508	CLA	C14-C13-C15-C16
36	b1	605	CLA	C6-C7-C8-C9
36	c1	505	CLA	C11-C10-C8-C9
36	c1	507	CLA	C11-C12-C13-C14
36	c1	511	CLA	C6-C7-C8-C9
36	c1	512	CLA	C14-C13-C15-C16
36	x1	101	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
36	bD	605	CLA	C6-C7-C8-C9
36	cD	507	CLA	C11-C12-C13-C14
36	cD	511	CLA	C6-C7-C8-C9
36	cD	512	CLA	C14-C13-C15-C16
36	bE	605	CLA	C6-C7-C8-C9
36	cE	507	CLA	C11-C12-C13-C14
36	cE	511	CLA	C6-C7-C8-C9
36	cE	512	CLA	C14-C13-C15-C16
36	xE	101	CLA	C14-C13-C15-C16
45	DD	401	PHO	C6-C7-C8-C9
39	mD	101	LMG	O6-C5-C6-O5
39	yD	101	LMG	C16-C17-C18-C19
33	aB	201	CYC	CAA-CBA-CGA-O2A
39	y1	101	LMG	C16-C17-C18-C19
36	CD	509	CLA	C3A-C2A-CAA-CBA
36	CE	509	CLA	C3A-C2A-CAA-CBA
36	C1	509	CLA	C3A-C2A-CAA-CBA
36	CE	515	CLA	C15-C16-C17-C18
39	CD	502	LMG	O7-C10-C11-C12
39	CE	502	LMG	O7-C10-C11-C12
39	C1	502	LMG	O7-C10-C11-C12
39	m1	101	LMG	O6-C5-C6-O5
33	MG	201	CYC	CAD-CBD-CGD-O2D
33	ML	201	CYC	CAD-CBD-CGD-O2D
33	a4	201	CYC	CAA-CBA-CGA-O2A
33	r4	201	CYC	CAA-CBA-CGA-O2A
33	rB	201	CYC	CAA-CBA-CGA-O2A
36	BD	609	CLA	CAD-CBD-CGD-O2D
36	CD	505	CLA	CAD-CBD-CGD-O2D
36	CD	512	CLA	CAD-CBD-CGD-O2D
36	XD	101	CLA	CAD-CBD-CGD-O2D
36	BE	609	CLA	CAD-CBD-CGD-O2D
36	CE	505	CLA	CAD-CBD-CGD-O2D
36	CE	512	CLA	CAD-CBD-CGD-O2D
36	XE	101	CLA	CAD-CBD-CGD-O2D
36	B1	609	CLA	CAD-CBD-CGD-O2D
36	C1	505	CLA	CAD-CBD-CGD-O2D
36	C1	512	CLA	CAD-CBD-CGD-O2D
36	X1	101	CLA	CAD-CBD-CGD-O2D
36	a1	406	CLA	CAD-CBD-CGD-O2D
36	b1	610	CLA	CAD-CBD-CGD-O2D
36	c1	502	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
36	x1	101	CLA	CAD-CBD-CGD-O2D
36	aD	405	CLA	CAD-CBD-CGD-O2D
36	bD	610	CLA	CAD-CBD-CGD-O2D
36	cD	503	CLA	CAD-CBD-CGD-O2D
36	xD	101	CLA	CAD-CBD-CGD-O2D
36	aE	405	CLA	CAD-CBD-CGD-O2D
36	bE	610	CLA	CAD-CBD-CGD-O2D
36	cE	503	CLA	CAD-CBD-CGD-O2D
36	xE	101	CLA	CAD-CBD-CGD-O2D
38	LD	101	SQD	C44-C45-O47-C7
38	LD	101	SQD	C46-C45-O47-C7
38	LD	102	SQD	C44-C45-O47-C7
38	LD	102	SQD	C46-C45-O47-C7
38	LE	101	SQD	C44-C45-O47-C7
38	LE	101	SQD	C46-C45-O47-C7
38	LE	102	SQD	C44-C45-O47-C7
38	LE	102	SQD	C46-C45-O47-C7
38	L1	101	SQD	C44-C45-O47-C7
38	L1	101	SQD	C46-C45-O47-C7
38	L1	102	SQD	C44-C45-O47-C7
38	L1	102	SQD	C46-C45-O47-C7
44	c1	516	DGD	C1G-C2G-O2G-C1B
44	cD	516	DGD	C1G-C2G-O2G-C1B
44	cE	516	DGD	C1G-C2G-O2G-C1B
42	AD	411	LHG	C23-C24-C25-C26
42	AE	411	LHG	C23-C24-C25-C26
42	A1	411	LHG	C23-C24-C25-C26
36	cD	506	CLA	C16-C17-C18-C19
36	cE	506	CLA	C16-C17-C18-C19
36	cE	506	CLA	C16-C17-C18-C20
36	BD	613	CLA	C10-C11-C12-C13
36	CD	515	CLA	C15-C16-C17-C18
36	BE	613	CLA	C10-C11-C12-C13
36	B1	613	CLA	C10-C11-C12-C13
36	b1	614	CLA	C10-C11-C12-C13
36	bD	614	CLA	C10-C11-C12-C13
36	bE	614	CLA	C10-C11-C12-C13
39	MD	101	LMG	O6-C5-C6-O5
39	M1	101	LMG	O6-C5-C6-O5
39	mE	101	LMG	O6-C5-C6-O5
36	B1	602	CLA	C2A-CAA-CBA-CGA
36	b1	604	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
36	bD	604	CLA	C2A-CAA-CBA-CGA
36	bE	604	CLA	C2A-CAA-CBA-CGA
44	c1	518	DGD	O6D-C5D-C6D-O5D
44	cD	518	DGD	O6D-C5D-C6D-O5D
44	cE	518	DGD	O6D-C5D-C6D-O5D
33	a4	201	CYC	CAD-CBD-CGD-O2D
33	aB	201	CYC	CAD-CBD-CGD-O2D
36	c1	505	CLA	C16-C17-C18-C20
33	AG	201	CYC	CAA-CBA-CGA-O2A
33	AL	201	CYC	CAA-CBA-CGA-O2A
33	r4	201	CYC	CAA-CBA-CGA-O1A
33	Q4	201	CYC	CAA-CBA-CGA-O1A
33	cF	201	CYC	CAA-CBA-CGA-O2A
40	DE	413	LMT	C7-C8-C9-C10
37	a1	409	PL9	C28-C29-C31-C32
37	aD	408	PL9	C28-C29-C31-C32
37	aE	408	PL9	C28-C29-C31-C32
36	CD	503	CLA	CAA-CBA-CGA-O2A
36	CE	503	CLA	CAA-CBA-CGA-O2A
36	C1	503	CLA	CAA-CBA-CGA-O2A
42	DD	410	LHG	O8-C23-C24-C25
42	DE	410	LHG	O8-C23-C24-C25
42	D1	409	LHG	O8-C23-C24-C25
42	d1	410	LHG	O8-C23-C24-C25
42	dD	410	LHG	O8-C23-C24-C25
42	dE	410	LHG	O8-C23-C24-C25
42	DE	409	LHG	C25-C26-C27-C28
40	DD	413	LMT	C7-C8-C9-C10
42	DD	409	LHG	C25-C26-C27-C28
42	DE	409	LHG	C33-C34-C35-C36
42	D1	408	LHG	C33-C34-C35-C36
38	B1	622	SQD	C7-C8-C9-C10
39	JD	102	LMG	C7-C8-C9-O8
39	JE	102	LMG	C7-C8-C9-O8
39	J1	102	LMG	C7-C8-C9-O8
44	HD	103	DGD	C1G-C2G-C3G-O3G
44	HE	103	DGD	C1G-C2G-C3G-O3G
44	H1	103	DGD	C1G-C2G-C3G-O3G
45	DD	403	PHO	C2C-C3C-CAC-CBC
45	DE	401	PHO	C2C-C3C-CAC-CBC
45	DE	403	PHO	C2C-C3C-CAC-CBC
45	A1	412	PHO	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
45	D1	402	PHO	C2C-C3C-CAC-CBC
45	d1	402	PHO	C2C-C3C-CAC-CBC
45	aD	412	PHO	C2C-C3C-CAC-CBC
33	LG	201	CYC	CAA-CBA-CGA-O1A
33	m2	201	CYC	CAD-CBD-CGD-O2D
33	m6	201	CYC	CAD-CBD-CGD-O2D
33	m9	201	CYC	CAD-CBD-CGD-O2D
33	rB	201	CYC	CAA-CBA-CGA-O1A
33	mI	201	CYC	CAD-CBD-CGD-O2D
40	D1	412	LMT	C7-C8-C9-C10
42	DD	409	LHG	C33-C34-C35-C36
42	D1	408	LHG	C25-C26-C27-C28
36	bD	608	CLA	O1D-CGD-O2D-CED
42	dD	409	LHG	C25-C26-C27-C28
42	dE	409	LHG	C25-C26-C27-C28
33	C4	1001	CYC	C4B-C3B-CAB-CBB
36	ID	101	CLA	CAA-CBA-CGA-O2A
36	IE	101	CLA	CAA-CBA-CGA-O2A
36	I1	101	CLA	CAA-CBA-CGA-O2A
38	AE	407	SQD	O47-C7-C8-C9
39	a1	410	LMG	O7-C10-C11-C12
39	aD	409	LMG	O7-C10-C11-C12
39	aE	409	LMG	O7-C10-C11-C12
36	c1	505	CLA	C16-C17-C18-C19
42	d1	409	LHG	C25-C26-C27-C28
33	PB	201	CYC	CAA-CBA-CGA-O1A
33	QB	201	CYC	CAA-CBA-CGA-O1A
33	XB	201	CYC	CAA-CBA-CGA-O1A
33	XB	201	CYC	CAA-CBA-CGA-O2A
33	AG	201	CYC	CAA-CBA-CGA-O1A
33	AL	201	CYC	CAA-CBA-CGA-O1A
33	LL	201	CYC	CAA-CBA-CGA-O1A
33	m3	201	CYC	CAD-CBD-CGD-O2D
33	X4	201	CYC	CAA-CBA-CGA-O1A
33	X4	201	CYC	CAA-CBA-CGA-O2A
33	u4	201	CYC	CAA-CBA-CGA-O1A
33	P4	201	CYC	CAA-CBA-CGA-O1A
33	uB	201	CYC	CAA-CBA-CGA-O1A
33	cK	201	CYC	CAA-CBA-CGA-O2A
42	d1	409	LHG	C33-C34-C35-C36
42	dD	409	LHG	C33-C34-C35-C36
42	dE	409	LHG	C33-C34-C35-C36

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Mol	Chain	Res	Type	Atoms
38	AD	407	SQD	O47-C7-C8-C9
38	A1	407	SQD	O47-C7-C8-C9
33	PB	201	CYC	CAD-CBD-CGD-O1D
33	MG	201	CYC	CAD-CBD-CGD-O1D
33	ML	201	CYC	CAD-CBD-CGD-O1D
33	c2	202	CYC	CAD-CBD-CGD-O2D
33	g2	201	CYC	CAD-CBD-CGD-O2D
33	i2	201	CYC	CAD-CBD-CGD-O2D
33	j2	202	CYC	CAD-CBD-CGD-O2D
33	g3	201	CYC	CAD-CBD-CGD-O2D
33	j3	202	CYC	CAD-CBD-CGD-O2D
33	a4	201	CYC	CAA-CBA-CGA-O1A
33	P4	201	CYC	CAD-CBD-CGD-O1D
33	g5	201	CYC	CAD-CBD-CGD-O2D
33	i5	201	CYC	CAD-CBD-CGD-O2D
33	j5	202	CYC	CAD-CBD-CGD-O2D
33	m5	201	CYC	CAD-CBD-CGD-O2D
33	g6	201	CYC	CAD-CBD-CGD-O2D
33	j6	202	CYC	CAD-CBD-CGD-O2D
33	e7	202	CYC	CAD-CBD-CGD-O2D
33	i7	201	CYC	CAD-CBD-CGD-O2D
33	j7	202	CYC	CAD-CBD-CGD-O2D
33	m7	201	CYC	CAD-CBD-CGD-O2D
33	c8	202	CYC	CAD-CBD-CGD-O2D
33	g8	201	CYC	CAD-CBD-CGD-O2D
33	j8	202	CYC	CAD-CBD-CGD-O2D
33	m8	201	CYC	CAD-CBD-CGD-O2D
33	g9	201	CYC	CAD-CBD-CGD-O2D
33	i9	201	CYC	CAD-CBD-CGD-O2D
33	j9	202	CYC	CAD-CBD-CGD-O2D
33	gA	201	CYC	CAD-CBD-CGD-O2D
33	iA	201	CYC	CAD-CBD-CGD-O2D
33	jA	202	CYC	CAD-CBD-CGD-O2D
33	mA	201	CYC	CAD-CBD-CGD-O2D
33	aB	201	CYC	CAA-CBA-CGA-O1A
33	gC	201	CYC	CAD-CBD-CGD-O2D
33	iC	201	CYC	CAD-CBD-CGD-O2D
33	jC	202	CYC	CAD-CBD-CGD-O2D
33	mC	201	CYC	CAD-CBD-CGD-O2D
33	1G	201	CYC	CAD-CBD-CGD-O1D
33	gH	201	CYC	CAD-CBD-CGD-O2D
33	iH	201	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
33	jH	202	CYC	CAD-CBD-CGD-O2D
33	mH	201	CYC	CAD-CBD-CGD-O2D
33	cI	202	CYC	CAD-CBD-CGD-O2D
33	gI	201	CYC	CAD-CBD-CGD-O2D
33	jI	202	CYC	CAD-CBD-CGD-O2D
33	cJ	202	CYC	CAD-CBD-CGD-O2D
33	gJ	201	CYC	CAD-CBD-CGD-O2D
33	iJ	201	CYC	CAD-CBD-CGD-O2D
33	jJ	202	CYC	CAD-CBD-CGD-O2D
33	mJ	201	CYC	CAD-CBD-CGD-O2D
33	lL	201	CYC	CAD-CBD-CGD-O1D
38	cE	502	SQD	C30-C31-C32-C33
38	cD	502	SQD	C30-C31-C32-C33
38	BD	621	SQD	C7-C8-C9-C10
38	BE	621	SQD	C7-C8-C9-C10
38	c1	501	SQD	C30-C31-C32-C33
36	BD	602	CLA	CHA-CBD-CGD-O2D
36	BD	603	CLA	CHA-CBD-CGD-O2D
36	BD	608	CLA	CHA-CBD-CGD-O2D
36	BD	611	CLA	CHA-CBD-CGD-O1D
36	BD	611	CLA	CHA-CBD-CGD-O2D
36	CD	504	CLA	CHA-CBD-CGD-O1D
36	CD	504	CLA	CHA-CBD-CGD-O2D
36	CD	509	CLA	CHA-CBD-CGD-O1D
36	CD	509	CLA	CHA-CBD-CGD-O2D
36	HD	102	CLA	CHA-CBD-CGD-O1D
36	HD	102	CLA	CHA-CBD-CGD-O2D
36	BE	602	CLA	CHA-CBD-CGD-O2D
36	BE	603	CLA	CHA-CBD-CGD-O2D
36	BE	608	CLA	CHA-CBD-CGD-O2D
36	BE	611	CLA	CHA-CBD-CGD-O1D
36	BE	611	CLA	CHA-CBD-CGD-O2D
36	CE	504	CLA	CHA-CBD-CGD-O1D
36	CE	504	CLA	CHA-CBD-CGD-O2D
36	CE	509	CLA	CHA-CBD-CGD-O1D
36	CE	509	CLA	CHA-CBD-CGD-O2D
36	HE	102	CLA	CHA-CBD-CGD-O1D
36	HE	102	CLA	CHA-CBD-CGD-O2D
36	B1	602	CLA	CHA-CBD-CGD-O2D
36	B1	603	CLA	CHA-CBD-CGD-O2D
36	B1	608	CLA	CHA-CBD-CGD-O2D
36	B1	611	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
36	B1	611	CLA	CHA-CBD-CGD-O2D
36	C1	504	CLA	CHA-CBD-CGD-O1D
36	C1	504	CLA	CHA-CBD-CGD-O2D
36	C1	509	CLA	CHA-CBD-CGD-O1D
36	C1	509	CLA	CHA-CBD-CGD-O2D
36	H1	102	CLA	CHA-CBD-CGD-O1D
36	H1	102	CLA	CHA-CBD-CGD-O2D
36	b1	604	CLA	CHA-CBD-CGD-O2D
36	b1	605	CLA	CHA-CBD-CGD-O1D
36	b1	605	CLA	CHA-CBD-CGD-O2D
36	b1	612	CLA	CHA-CBD-CGD-O1D
36	b1	612	CLA	CHA-CBD-CGD-O2D
36	c1	510	CLA	CHA-CBD-CGD-O2D
36	c1	511	CLA	CHA-CBD-CGD-O2D
36	d1	403	CLA	CHA-CBD-CGD-O2D
36	h1	102	CLA	CHA-CBD-CGD-O1D
36	h1	102	CLA	CHA-CBD-CGD-O2D
36	bD	604	CLA	CHA-CBD-CGD-O2D
36	bD	605	CLA	CHA-CBD-CGD-O1D
36	bD	605	CLA	CHA-CBD-CGD-O2D
36	bD	612	CLA	CHA-CBD-CGD-O1D
36	bD	612	CLA	CHA-CBD-CGD-O2D
36	cD	510	CLA	CHA-CBD-CGD-O2D
36	cD	511	CLA	CHA-CBD-CGD-O2D
36	dD	403	CLA	CHA-CBD-CGD-O2D
36	hD	102	CLA	CHA-CBD-CGD-O1D
36	hD	102	CLA	CHA-CBD-CGD-O2D
36	bE	604	CLA	CHA-CBD-CGD-O2D
36	bE	605	CLA	CHA-CBD-CGD-O1D
36	bE	605	CLA	CHA-CBD-CGD-O2D
36	bE	612	CLA	CHA-CBD-CGD-O1D
36	bE	612	CLA	CHA-CBD-CGD-O2D
36	cE	510	CLA	CHA-CBD-CGD-O2D
36	cE	511	CLA	CHA-CBD-CGD-O2D
36	dE	403	CLA	CHA-CBD-CGD-O2D
36	hE	102	CLA	CHA-CBD-CGD-O1D
36	hE	102	CLA	CHA-CBD-CGD-O2D
33	PB	201	CYC	CAA-CBA-CGA-O2A
33	c2	202	CYC	CAD-CBD-CGD-O1D
33	e2	202	CYC	CAD-CBD-CGD-O1D
33	e2	202	CYC	CAD-CBD-CGD-O2D
33	g2	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
33	i2	201	CYC	CAD-CBD-CGD-O1D
33	j2	202	CYC	CAD-CBD-CGD-O1D
33	m2	201	CYC	CAD-CBD-CGD-O1D
33	c3	202	CYC	CAD-CBD-CGD-O1D
33	c3	202	CYC	CAD-CBD-CGD-O2D
33	e3	202	CYC	CAD-CBD-CGD-O1D
33	e3	202	CYC	CAD-CBD-CGD-O2D
33	g3	201	CYC	CAD-CBD-CGD-O1D
33	i3	201	CYC	CAD-CBD-CGD-O1D
33	i3	201	CYC	CAD-CBD-CGD-O2D
33	j3	202	CYC	CAD-CBD-CGD-O1D
33	m3	201	CYC	CAD-CBD-CGD-O1D
33	a4	201	CYC	CAD-CBD-CGD-O1D
33	P4	201	CYC	CAA-CBA-CGA-O2A
33	c5	202	CYC	CAD-CBD-CGD-O1D
33	c5	202	CYC	CAD-CBD-CGD-O2D
33	e5	202	CYC	CAD-CBD-CGD-O1D
33	e5	202	CYC	CAD-CBD-CGD-O2D
33	g5	201	CYC	CAD-CBD-CGD-O1D
33	i5	201	CYC	CAD-CBD-CGD-O1D
33	j5	202	CYC	CAD-CBD-CGD-O1D
33	m5	201	CYC	CAD-CBD-CGD-O1D
33	c6	202	CYC	CAD-CBD-CGD-O1D
33	c6	202	CYC	CAD-CBD-CGD-O2D
33	e6	202	CYC	CAD-CBD-CGD-O1D
33	e6	202	CYC	CAD-CBD-CGD-O2D
33	g6	201	CYC	CAD-CBD-CGD-O1D
33	i6	201	CYC	CAD-CBD-CGD-O1D
33	i6	201	CYC	CAD-CBD-CGD-O2D
33	j6	202	CYC	CAD-CBD-CGD-O1D
33	m6	201	CYC	CAD-CBD-CGD-O1D
33	c7	202	CYC	CAD-CBD-CGD-O1D
33	c7	202	CYC	CAD-CBD-CGD-O2D
33	e7	202	CYC	CAD-CBD-CGD-O1D
33	g7	201	CYC	CAD-CBD-CGD-O1D
33	g7	201	CYC	CAD-CBD-CGD-O2D
33	i7	201	CYC	CAD-CBD-CGD-O1D
33	j7	202	CYC	CAD-CBD-CGD-O1D
33	m7	201	CYC	CAD-CBD-CGD-O1D
33	c8	202	CYC	CAD-CBD-CGD-O1D
33	e8	202	CYC	CAD-CBD-CGD-O1D
33	e8	202	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
33	g8	201	CYC	CAD-CBD-CGD-O1D
33	i8	201	CYC	CAD-CBD-CGD-O1D
33	i8	201	CYC	CAD-CBD-CGD-O2D
33	j8	202	CYC	CAD-CBD-CGD-O1D
33	m8	201	CYC	CAD-CBD-CGD-O1D
33	c9	202	CYC	CAD-CBD-CGD-O1D
33	c9	202	CYC	CAD-CBD-CGD-O2D
33	e9	202	CYC	CAD-CBD-CGD-O1D
33	e9	202	CYC	CAD-CBD-CGD-O2D
33	g9	201	CYC	CAD-CBD-CGD-O1D
33	i9	201	CYC	CAD-CBD-CGD-O1D
33	j9	202	CYC	CAD-CBD-CGD-O1D
33	m9	201	CYC	CAD-CBD-CGD-O1D
33	cA	202	CYC	CAD-CBD-CGD-O1D
33	cA	202	CYC	CAD-CBD-CGD-O2D
33	eA	202	CYC	CAD-CBD-CGD-O1D
33	eA	202	CYC	CAD-CBD-CGD-O2D
33	gA	201	CYC	CAD-CBD-CGD-O1D
33	iA	201	CYC	CAD-CBD-CGD-O1D
33	jA	202	CYC	CAD-CBD-CGD-O1D
33	mA	201	CYC	CAD-CBD-CGD-O1D
33	aB	201	CYC	CAD-CBD-CGD-O1D
33	cC	202	CYC	CAD-CBD-CGD-O1D
33	cC	202	CYC	CAD-CBD-CGD-O2D
33	eC	202	CYC	CAD-CBD-CGD-O1D
33	eC	202	CYC	CAD-CBD-CGD-O2D
33	gC	201	CYC	CAD-CBD-CGD-O1D
33	iC	201	CYC	CAD-CBD-CGD-O1D
33	jC	202	CYC	CAD-CBD-CGD-O1D
33	mC	201	CYC	CAD-CBD-CGD-O1D
33	cF	201	CYC	CAA-CBA-CGA-O1A
33	cH	202	CYC	CAD-CBD-CGD-O1D
33	cH	202	CYC	CAD-CBD-CGD-O2D
33	eH	202	CYC	CAD-CBD-CGD-O1D
33	eH	202	CYC	CAD-CBD-CGD-O2D
33	gH	201	CYC	CAD-CBD-CGD-O1D
33	iH	201	CYC	CAD-CBD-CGD-O1D
33	jH	202	CYC	CAD-CBD-CGD-O1D
33	mH	201	CYC	CAD-CBD-CGD-O1D
33	cI	202	CYC	CAD-CBD-CGD-O1D
33	eI	202	CYC	CAD-CBD-CGD-O1D
33	eI	202	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
33	gI	201	CYC	CAD-CBD-CGD-O1D
33	iI	201	CYC	CAD-CBD-CGD-O1D
33	iI	201	CYC	CAD-CBD-CGD-O2D
33	jI	202	CYC	CAD-CBD-CGD-O1D
33	mI	201	CYC	CAD-CBD-CGD-O1D
33	cJ	202	CYC	CAD-CBD-CGD-O1D
33	eJ	202	CYC	CAD-CBD-CGD-O1D
33	eJ	202	CYC	CAD-CBD-CGD-O2D
33	gJ	201	CYC	CAD-CBD-CGD-O1D
33	iJ	201	CYC	CAD-CBD-CGD-O1D
33	jJ	202	CYC	CAD-CBD-CGD-O1D
33	mJ	201	CYC	CAD-CBD-CGD-O1D
33	cK	201	CYC	CAA-CBA-CGA-O1A
39	aI	408	LMG	O7-C10-C11-C12
39	aD	407	LMG	O7-C10-C11-C12
39	aE	407	LMG	O7-C10-C11-C12
42	eI	101	LHG	O6-C4-C5-C6
42	eD	101	LHG	O6-C4-C5-C6
42	eE	101	LHG	O6-C4-C5-C6
40	bD	601	LMT	C5-C6-C7-C8
40	bE	601	LMT	C5-C6-C7-C8
37	DD	408	PL9	C2-C3-C7-C8
37	DE	408	PL9	C2-C3-C7-C8
37	D1	407	PL9	C2-C3-C7-C8
36	BD	609	CLA	CAA-CBA-CGA-O2A
36	BE	609	CLA	CAA-CBA-CGA-O2A
36	B1	609	CLA	CAA-CBA-CGA-O2A
36	b1	610	CLA	CAA-CBA-CGA-O2A
36	bD	610	CLA	CAA-CBA-CGA-O2A
38	BD	621	SQD	O48-C23-C24-C25
38	BE	621	SQD	O48-C23-C24-C25
38	B1	622	SQD	O48-C23-C24-C25
39	aI	408	LMG	O8-C28-C29-C30
39	aD	407	LMG	O8-C28-C29-C30
39	aE	407	LMG	O8-C28-C29-C30
42	aI	412	LHG	O8-C23-C24-C25
42	aD	411	LHG	O8-C23-C24-C25
42	aE	411	LHG	O8-C23-C24-C25
40	b1	601	LMT	C5-C6-C7-C8
38	CD	501	SQD	O6-C44-C45-O47
38	CE	501	SQD	O6-C44-C45-O47
38	C1	501	SQD	O6-C44-C45-O47

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Mol	Chain	Res	Type	Atoms
39	TD	101	LMG	O7-C8-C9-O8
39	TE	101	LMG	O7-C8-C9-O8
39	T1	101	LMG	O7-C8-C9-O8
39	t1	101	LMG	O7-C8-C9-O8
39	tD	101	LMG	O7-C8-C9-O8
39	tE	101	LMG	O7-C8-C9-O8
36	bE	608	CLA	O1D-CGD-O2D-CED
36	ID	101	CLA	CBA-CGA-O2A-C1
36	I1	101	CLA	CBA-CGA-O2A-C1
33	b4	101	CYC	CAD-CBD-CGD-O1D
36	b1	608	CLA	O1D-CGD-O2D-CED
36	BD	612	CLA	CAA-CBA-CGA-O2A
36	BE	612	CLA	CAA-CBA-CGA-O2A
36	B1	612	CLA	CAA-CBA-CGA-O2A
36	b1	613	CLA	CAA-CBA-CGA-O2A
36	bD	613	CLA	CAA-CBA-CGA-O2A
36	bE	610	CLA	CAA-CBA-CGA-O2A
36	bE	613	CLA	CAA-CBA-CGA-O2A
38	h1	103	SQD	O48-C23-C24-C25
38	hD	103	SQD	O48-C23-C24-C25
38	hE	103	SQD	O48-C23-C24-C25
39	CE	502	LMG	C17-C18-C19-C20
39	yE	101	LMG	C31-C32-C33-C34
33	bB	101	CYC	CAD-CBD-CGD-O1D
39	yD	101	LMG	C31-C32-C33-C34
44	JD	101	DGD	C7B-C8B-C9B-CAB
36	IE	101	CLA	CBA-CGA-O2A-C1
39	CD	502	LMG	C17-C18-C19-C20
39	y1	101	LMG	C31-C32-C33-C34
40	BD	622	LMT	C5-C6-C7-C8
44	JE	101	DGD	C7B-C8B-C9B-CAB
44	J1	101	DGD	C7B-C8B-C9B-CAB
36	c1	502	CLA	CAA-CBA-CGA-O2A
36	cD	503	CLA	CAA-CBA-CGA-O2A
36	cE	503	CLA	CAA-CBA-CGA-O2A
38	CD	501	SQD	O47-C7-C8-C9
38	CE	501	SQD	O47-C7-C8-C9
38	C1	501	SQD	O47-C7-C8-C9
38	dE	414	SQD	O47-C7-C8-C9
40	BE	622	LMT	C5-C6-C7-C8
40	a1	401	LMT	C5-C6-C7-C8
39	C1	502	LMG	C17-C18-C19-C20

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Mol	Chain	Res	Type	Atoms
44	HD	103	DGD	O1B-C1B-O2G-C2G
44	HE	103	DGD	O1B-C1B-O2G-C2G
44	H1	103	DGD	O1B-C1B-O2G-C2G
38	DE	414	SQD	O47-C7-C8-C9
38	d1	414	SQD	O47-C7-C8-C9
38	dD	414	SQD	O47-C7-C8-C9
33	SB	201	CYC	CAD-CBD-CGD-O1D
33	S4	201	CYC	CAD-CBD-CGD-O1D
36	BD	605	CLA	C11-C10-C8-C9
36	BD	614	CLA	C6-C7-C8-C9
36	BE	605	CLA	C11-C10-C8-C9
36	BE	614	CLA	C6-C7-C8-C9
36	XE	101	CLA	C14-C13-C15-C16
36	B1	605	CLA	C11-C10-C8-C9
36	B1	614	CLA	C6-C7-C8-C9
36	X1	101	CLA	C14-C13-C15-C16
36	b1	607	CLA	C11-C10-C8-C9
36	b1	615	CLA	C6-C7-C8-C9
36	c1	508	CLA	C11-C10-C8-C9
36	d1	403	CLA	C11-C10-C8-C9
36	bD	607	CLA	C11-C10-C8-C9
36	bD	615	CLA	C6-C7-C8-C9
36	cD	508	CLA	C11-C10-C8-C9
36	dD	403	CLA	C11-C10-C8-C9
36	xD	101	CLA	C14-C13-C15-C16
36	bE	607	CLA	C11-C10-C8-C9
36	bE	615	CLA	C6-C7-C8-C9
36	cE	508	CLA	C11-C10-C8-C9
36	dE	403	CLA	C11-C10-C8-C9
39	j1	102	LMG	O8-C28-C29-C30
39	jD	102	LMG	O8-C28-C29-C30
39	jE	102	LMG	O8-C28-C29-C30
45	DE	403	PHO	C11-C10-C8-C9
45	aD	412	PHO	C6-C7-C8-C9
43	XD	102	BCR	C19-C20-C21-C22
43	XE	102	BCR	C19-C20-C21-C22
43	X1	102	BCR	C19-C20-C21-C22
43	h1	105	BCR	C19-C20-C21-C22
43	hD	105	BCR	C19-C20-C21-C22
43	hE	105	BCR	C19-C20-C21-C22
45	aE	412	PHO	C8-C10-C11-C12
40	dD	404	LMT	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
33	TB	201	CYC	CAD-CBD-CGD-O2D
33	WB	201	CYC	CAD-CBD-CGD-O2D
33	T4	201	CYC	CAD-CBD-CGD-O2D
33	W4	201	CYC	CAD-CBD-CGD-O2D
33	7G	201	CYC	CAD-CBD-CGD-O1D
33	7L	201	CYC	CAD-CBD-CGD-O1D
39	CD	519	LMG	C36-C37-C38-C39
39	CE	519	LMG	C36-C37-C38-C39
40	D1	403	LMT	C11-C10-C9-C8
40	d1	404	LMT	C11-C10-C9-C8
40	dE	404	LMT	C11-C10-C9-C8
42	B1	621	LHG	C29-C30-C31-C32
42	lE	101	LHG	C29-C30-C31-C32
38	DD	414	SQD	O47-C7-C8-C9
38	D1	413	SQD	O47-C7-C8-C9
44	H1	103	DGD	O2G-C1B-C2B-C3B
38	LD	101	SQD	C4-C5-C6-S
38	LD	102	SQD	C4-C5-C6-S
38	LE	101	SQD	C4-C5-C6-S
38	LE	102	SQD	C4-C5-C6-S
38	L1	101	SQD	C4-C5-C6-S
38	L1	102	SQD	C4-C5-C6-S
39	C1	519	LMG	C36-C37-C38-C39
40	b1	601	LMT	O1'-C1-C2-C3
36	a1	406	CLA	O1A-CGA-O2A-C1
36	aD	405	CLA	O1A-CGA-O2A-C1
40	DD	404	LMT	C11-C10-C9-C8
40	DE	404	LMT	C11-C10-C9-C8
42	BD	620	LHG	C29-C30-C31-C32
42	lD	101	LHG	C29-C30-C31-C32
33	BB	1001	CYC	C3D-CAD-CBD-CGD
33	B4	1001	CYC	C3D-CAD-CBD-CGD
44	HD	103	DGD	O2G-C1B-C2B-C3B
44	HE	103	DGD	O2G-C1B-C2B-C3B
42	l1	101	LHG	C29-C30-C31-C32
40	bD	601	LMT	O1'-C1-C2-C3
42	BE	620	LHG	C29-C30-C31-C32
33	ZF	201	CYC	C2A-CAA-CBA-CGA
33	ZK	201	CYC	C2A-CAA-CBA-CGA
33	w4	201	CYC	CAD-CBD-CGD-O2D
33	wB	201	CYC	CAD-CBD-CGD-O2D
38	hE	103	SQD	O49-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
36	cD	514	CLA	C15-C16-C17-C18
40	bE	601	LMT	O1'-C1-C2-C3
42	dD	409	LHG	C31-C32-C33-C34
36	aE	405	CLA	O1A-CGA-O2A-C1
42	d1	409	LHG	C31-C32-C33-C34
42	dE	409	LHG	C31-C32-C33-C34
47	f1	101	HEM	CAD-CBD-CGD-O2D
38	h1	103	SQD	O49-C7-C8-C9
38	hD	103	SQD	O49-C7-C8-C9
39	a1	410	LMG	O9-C10-C11-C12
39	aD	409	LMG	O9-C10-C11-C12
39	aE	409	LMG	O9-C10-C11-C12
42	DE	409	LHG	C32-C33-C34-C35
36	CD	509	CLA	CBA-CGA-O2A-C1
36	CE	509	CLA	CBA-CGA-O2A-C1
36	C1	509	CLA	CBA-CGA-O2A-C1
36	a1	406	CLA	CBA-CGA-O2A-C1
36	c1	514	CLA	CBA-CGA-O2A-C1
36	aD	405	CLA	CBA-CGA-O2A-C1
36	aE	405	CLA	CBA-CGA-O2A-C1
36	BD	609	CLA	C5-C6-C7-C8
36	BE	609	CLA	C5-C6-C7-C8
36	B1	609	CLA	C5-C6-C7-C8
36	b1	610	CLA	C5-C6-C7-C8
36	c1	514	CLA	C15-C16-C17-C18
36	bE	610	CLA	C5-C6-C7-C8
36	cE	514	CLA	C15-C16-C17-C18
36	b1	612	CLA	O1A-CGA-O2A-C1
40	d1	413	LMT	C7-C8-C9-C10
40	dE	413	LMT	C7-C8-C9-C10
36	BD	610	CLA	C1A-C2A-CAA-CBA
36	BD	612	CLA	C1A-C2A-CAA-CBA
36	CD	514	CLA	C1A-C2A-CAA-CBA
36	CD	515	CLA	C1A-C2A-CAA-CBA
36	BE	612	CLA	C1A-C2A-CAA-CBA
36	CE	514	CLA	C1A-C2A-CAA-CBA
36	CE	515	CLA	C1A-C2A-CAA-CBA
36	B1	610	CLA	C1A-C2A-CAA-CBA
36	B1	612	CLA	C1A-C2A-CAA-CBA
36	C1	514	CLA	C1A-C2A-CAA-CBA
36	C1	515	CLA	C1A-C2A-CAA-CBA
36	b1	613	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
36	c1	510	CLA	C1A-C2A-CAA-CBA
36	bD	613	CLA	C1A-C2A-CAA-CBA
36	cD	510	CLA	C1A-C2A-CAA-CBA
36	bE	607	CLA	C1A-C2A-CAA-CBA
36	bE	611	CLA	C1A-C2A-CAA-CBA
36	bE	613	CLA	C1A-C2A-CAA-CBA
36	cE	510	CLA	C1A-C2A-CAA-CBA
40	dD	413	LMT	C7-C8-C9-C10
42	DD	409	LHG	C31-C32-C33-C34
42	DD	409	LHG	C32-C33-C34-C35
42	DE	409	LHG	C31-C32-C33-C34
42	D1	408	LHG	C32-C33-C34-C35
44	c1	516	DGD	C6A-C7A-C8A-C9A
44	cD	516	DGD	C6A-C7A-C8A-C9A
44	cE	516	DGD	C6A-C7A-C8A-C9A
39	a1	408	LMG	O9-C10-C11-C12
39	aE	407	LMG	O9-C10-C11-C12
47	EE	101	HEM	CAD-CBD-CGD-O2D
47	fD	101	HEM	CAD-CBD-CGD-O2D
47	fE	101	HEM	CAD-CBD-CGD-O2D
42	D1	408	LHG	C31-C32-C33-C34
36	bD	612	CLA	O1A-CGA-O2A-C1
36	bE	612	CLA	O1A-CGA-O2A-C1
42	d1	409	LHG	C32-C33-C34-C35
42	dE	409	LHG	C32-C33-C34-C35
36	bD	610	CLA	C5-C6-C7-C8
36	cD	514	CLA	CBA-CGA-O2A-C1
36	CD	503	CLA	CAA-CBA-CGA-O1A
36	CE	503	CLA	CAA-CBA-CGA-O1A
36	C1	503	CLA	CAA-CBA-CGA-O1A
38	AD	407	SQD	O49-C7-C8-C9
38	AE	407	SQD	O49-C7-C8-C9
38	A1	407	SQD	O49-C7-C8-C9
39	aD	407	LMG	O9-C10-C11-C12
42	dD	409	LHG	C32-C33-C34-C35
33	eF	201	CYC	CAA-CBA-CGA-O1A
33	eK	201	CYC	CAA-CBA-CGA-O1A
47	ED	101	HEM	CAD-CBD-CGD-O2D
47	E1	101	HEM	CAD-CBD-CGD-O2D
38	DD	414	SQD	C44-C45-C46-O48
38	DE	414	SQD	C44-C45-C46-O48
38	D1	413	SQD	C44-C45-C46-O48

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Mol	Chain	Res	Type	Atoms
38	d1	414	SQD	C44-C45-C46-O48
38	dD	414	SQD	C44-C45-C46-O48
38	dE	414	SQD	C44-C45-C46-O48
39	CD	502	LMG	O1-C7-C8-C9
39	CE	502	LMG	O1-C7-C8-C9
39	C1	502	LMG	O1-C7-C8-C9
44	h1	104	DGD	C1G-C2G-C3G-O3G
44	hD	104	DGD	C1G-C2G-C3G-O3G
44	hE	104	DGD	C1G-C2G-C3G-O3G
36	C1	508	CLA	C2A-CAA-CBA-CGA
45	dE	402	PHO	C2A-CAA-CBA-CGA
45	dD	402	PHO	CBD-CGD-O2D-CED
45	dE	402	PHO	CBD-CGD-O2D-CED
33	CB	1001	CYC	C4B-C3B-CAB-CBB
42	aD	411	LHG	O10-C23-C24-C25
42	aE	411	LHG	O10-C23-C24-C25
36	BE	611	CLA	O1A-CGA-O2A-C1
44	JE	101	DGD	O1A-C1A-O1G-C1G
39	y1	101	LMG	O8-C28-C29-C30
39	yD	101	LMG	O8-C28-C29-C30
39	yE	101	LMG	O8-C28-C29-C30
36	IE	101	CLA	CAA-CBA-CGA-O1A
36	BD	611	CLA	O1A-CGA-O2A-C1
36	B1	611	CLA	O1A-CGA-O2A-C1
44	JD	101	DGD	O1A-C1A-O1G-C1G
44	J1	101	DGD	O1A-C1A-O1G-C1G
40	B1	620	LMT	C1-C2-C3-C4
40	C1	521	LMT	C1-C2-C3-C4
36	c1	505	CLA	C8-C10-C11-C12
36	a1	407	CLA	C11-C12-C13-C15
36	aD	406	CLA	C11-C12-C13-C15
38	c1	501	SQD	C24-C25-C26-C27
36	ID	101	CLA	CAA-CBA-CGA-O1A
36	I1	101	CLA	CAA-CBA-CGA-O1A
38	BE	621	SQD	O10-C23-C24-C25
42	a1	412	LHG	O10-C23-C24-C25
44	JE	101	DGD	C2A-C1A-O1G-C1G
38	cD	502	SQD	C24-C25-C26-C27
40	bE	602	LMT	C3-C4-C5-C6
43	CD	516	BCR	C23-C24-C25-C26
43	CE	516	BCR	C23-C24-C25-C26
43	C1	516	BCR	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
40	bE	621	LMT	C1-C2-C3-C4
40	b1	602	LMT	C3-C4-C5-C6
40	bD	602	LMT	C3-C4-C5-C6
36	cD	506	CLA	C8-C10-C11-C12
36	cE	506	CLA	C8-C10-C11-C12
36	bD	613	CLA	CAA-CBA-CGA-O1A
38	B1	622	SQD	O10-C23-C24-C25
38	cE	502	SQD	C24-C25-C26-C27
45	DD	403	PHO	CAA-CBA-CGA-O2A
36	x1	101	CLA	C10-C11-C12-C13
33	b4	101	CYC	CAD-CBD-CGD-O2D
33	bB	101	CYC	CAD-CBD-CGD-O2D
36	aE	406	CLA	C11-C12-C13-C15
40	CD	522	LMT	C1-C2-C3-C4
40	cD	501	LMT	C1-C2-C3-C4
40	cE	501	LMT	C1-C2-C3-C4
44	JD	101	DGD	C2A-C1A-O1G-C1G
44	J1	101	DGD	C2A-C1A-O1G-C1G
36	CD	508	CLA	C2A-CAA-CBA-CGA
36	BD	612	CLA	CAA-CBA-CGA-O1A
36	BE	612	CLA	CAA-CBA-CGA-O1A
36	B1	612	CLA	CAA-CBA-CGA-O1A
36	b1	613	CLA	CAA-CBA-CGA-O1A
36	bE	613	CLA	CAA-CBA-CGA-O1A
38	BD	621	SQD	O10-C23-C24-C25
36	XD	101	CLA	C10-C11-C12-C13
36	X1	101	CLA	C10-C11-C12-C13
36	xE	101	CLA	C10-C11-C12-C13
33	VB	201	CYC	C2A-CAA-CBA-CGA
36	XE	101	CLA	C10-C11-C12-C13
36	xD	101	CLA	C10-C11-C12-C13
39	AD	408	LMG	O10-C28-C29-C30
39	CD	502	LMG	O9-C10-C11-C12
39	AE	408	LMG	O10-C28-C29-C30
39	CE	502	LMG	O9-C10-C11-C12
39	A1	408	LMG	O10-C28-C29-C30
39	C1	502	LMG	O9-C10-C11-C12
44	HD	103	DGD	C2B-C1B-O2G-C2G
44	HE	103	DGD	C2B-C1B-O2G-C2G
44	H1	103	DGD	C2B-C1B-O2G-C2G
44	cE	516	DGD	C4E-C5E-C6E-O5E
36	cE	514	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
33	TB	201	CYC	CAD-CBD-CGD-O1D
33	T4	201	CYC	CAD-CBD-CGD-O1D
38	LD	101	SQD	O5-C5-C6-S
38	LD	102	SQD	O5-C5-C6-S
38	LE	101	SQD	O5-C5-C6-S
38	LE	102	SQD	O5-C5-C6-S
38	L1	101	SQD	O5-C5-C6-S
38	L1	102	SQD	O5-C5-C6-S
38	h1	103	SQD	C44-C45-O47-C7
38	hD	103	SQD	C44-C45-O47-C7
38	hE	103	SQD	C44-C45-O47-C7
44	c1	516	DGD	C4E-C5E-C6E-O5E
36	c1	514	CLA	O1A-CGA-O2A-C1
36	cD	514	CLA	O1A-CGA-O2A-C1
36	cE	514	CLA	O1A-CGA-O2A-C1
36	BD	609	CLA	CAA-CBA-CGA-O1A
36	BE	609	CLA	CAA-CBA-CGA-O1A
36	B1	609	CLA	CAA-CBA-CGA-O1A
36	b1	610	CLA	CAA-CBA-CGA-O1A
36	bD	610	CLA	CAA-CBA-CGA-O1A
36	cD	503	CLA	CAA-CBA-CGA-O1A
36	bE	610	CLA	CAA-CBA-CGA-O1A
36	cE	503	CLA	CAA-CBA-CGA-O1A
38	h1	103	SQD	O10-C23-C24-C25
38	hD	103	SQD	O10-C23-C24-C25
45	DE	403	PHO	CAA-CBA-CGA-O2A
45	D1	402	PHO	CAA-CBA-CGA-O2A
33	JF	201	CYC	CAA-CBA-CGA-O2A
33	JK	201	CYC	CAA-CBA-CGA-O2A
36	c1	502	CLA	CAA-CBA-CGA-O1A
38	hE	103	SQD	O10-C23-C24-C25
45	aE	412	PHO	CAA-CBA-CGA-O2A
44	cD	518	DGD	C6B-C7B-C8B-C9B
33	w4	201	CYC	CAD-CBD-CGD-O1D
33	wB	201	CYC	CAD-CBD-CGD-O1D
44	cD	516	DGD	C4E-C5E-C6E-O5E
44	c1	518	DGD	C6B-C7B-C8B-C9B
44	cE	518	DGD	C6B-C7B-C8B-C9B
36	c1	510	CLA	C2A-CAA-CBA-CGA
36	cD	510	CLA	C2A-CAA-CBA-CGA
36	cE	510	CLA	C2A-CAA-CBA-CGA
40	j1	101	LMT	C4-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
40	jD	101	LMT	C4-C5-C6-C7
40	jE	101	LMT	C4-C5-C6-C7
38	BD	621	SQD	O47-C7-C8-C9
38	BE	621	SQD	O47-C7-C8-C9
38	B1	622	SQD	O47-C7-C8-C9
38	CD	501	SQD	O49-C7-C8-C9
39	y1	101	LMG	O10-C28-C29-C30
40	b1	601	LMT	C1-C2-C3-C4
40	bD	601	LMT	C1-C2-C3-C4
39	yE	101	LMG	C12-C13-C14-C15
33	SB	201	CYC	C2C-C3C-CAC-CBC
33	S4	201	CYC	C2C-C3C-CAC-CBC
33	aF	201	CYC	C3D-CAD-CBD-CGD
33	jF	201	CYC	C2C-C3C-CAC-CBC
33	aK	201	CYC	C3D-CAD-CBD-CGD
33	jK	201	CYC	C2C-C3C-CAC-CBC
36	AD	404	CLA	C3A-C2A-CAA-CBA
36	BD	603	CLA	C12-C13-C15-C16
36	BD	605	CLA	C11-C10-C8-C7
36	CD	508	CLA	C12-C13-C15-C16
36	CD	509	CLA	C11-C10-C8-C7
36	AE	404	CLA	C3A-C2A-CAA-CBA
36	BE	603	CLA	C12-C13-C15-C16
36	BE	605	CLA	C11-C10-C8-C7
36	CE	508	CLA	C12-C13-C15-C16
36	CE	509	CLA	C11-C10-C8-C7
36	A1	404	CLA	C3A-C2A-CAA-CBA
36	B1	603	CLA	C12-C13-C15-C16
36	B1	605	CLA	C11-C10-C8-C7
36	C1	508	CLA	C12-C13-C15-C16
36	C1	509	CLA	C11-C10-C8-C7
36	b1	605	CLA	C12-C13-C15-C16
36	b1	607	CLA	C11-C10-C8-C7
36	c1	508	CLA	C3A-C2A-CAA-CBA
36	bD	605	CLA	C12-C13-C15-C16
36	bD	607	CLA	C11-C10-C8-C7
36	cD	508	CLA	C3A-C2A-CAA-CBA
36	bE	605	CLA	C12-C13-C15-C16
36	bE	607	CLA	C11-C10-C8-C7
36	cE	508	CLA	C3A-C2A-CAA-CBA
45	DD	403	PHO	C11-C10-C8-C7
38	CE	501	SQD	O49-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
38	C1	501	SQD	O49-C7-C8-C9
39	yD	101	LMG	O10-C28-C29-C30
39	yE	101	LMG	O10-C28-C29-C30
39	yD	101	LMG	C12-C13-C14-C15
44	C1	518	DGD	C6A-C7A-C8A-C9A
45	a1	413	PHO	CAA-CBA-CGA-O2A
39	y1	101	LMG	C12-C13-C14-C15
39	AD	408	LMG	C14-C15-C16-C17
39	AE	408	LMG	C14-C15-C16-C17
39	A1	408	LMG	C14-C15-C16-C17
44	J1	101	DGD	C4A-C5A-C6A-C7A
39	JD	102	LMG	O8-C28-C29-C30
39	JE	102	LMG	O8-C28-C29-C30
39	J1	102	LMG	O8-C28-C29-C30
36	bE	607	CLA	C10-C11-C12-C13
33	eF	201	CYC	CAA-CBA-CGA-O2A
44	CD	518	DGD	C6A-C7A-C8A-C9A
44	JD	101	DGD	C4A-C5A-C6A-C7A
44	CE	518	DGD	C6A-C7A-C8A-C9A
44	JE	101	DGD	C4A-C5A-C6A-C7A
36	BD	605	CLA	C10-C11-C12-C13
36	BE	605	CLA	C10-C11-C12-C13
36	B1	605	CLA	C10-C11-C12-C13
36	b1	607	CLA	C10-C11-C12-C13
36	bD	607	CLA	C10-C11-C12-C13
40	bE	601	LMT	C1-C2-C3-C4
33	eK	201	CYC	CAA-CBA-CGA-O2A
36	BE	604	CLA	C13-C15-C16-C17
36	bD	606	CLA	C13-C15-C16-C17
36	C1	509	CLA	CAA-CBA-CGA-O2A
44	cD	518	DGD	C4A-C5A-C6A-C7A
44	cE	518	DGD	C4A-C5A-C6A-C7A
36	BD	604	CLA	C13-C15-C16-C17
36	B1	604	CLA	C13-C15-C16-C17
36	bE	606	CLA	C13-C15-C16-C17
36	CE	508	CLA	C2A-CAA-CBA-CGA
33	TB	201	CYC	C2A-CAA-CBA-CGA
33	TG	201	CYC	C2A-CAA-CBA-CGA
33	TL	201	CYC	C2A-CAA-CBA-CGA
33	a4	201	CYC	C2A-CAA-CBA-CGA
33	T4	201	CYC	C2A-CAA-CBA-CGA
33	V4	201	CYC	C2A-CAA-CBA-CGA

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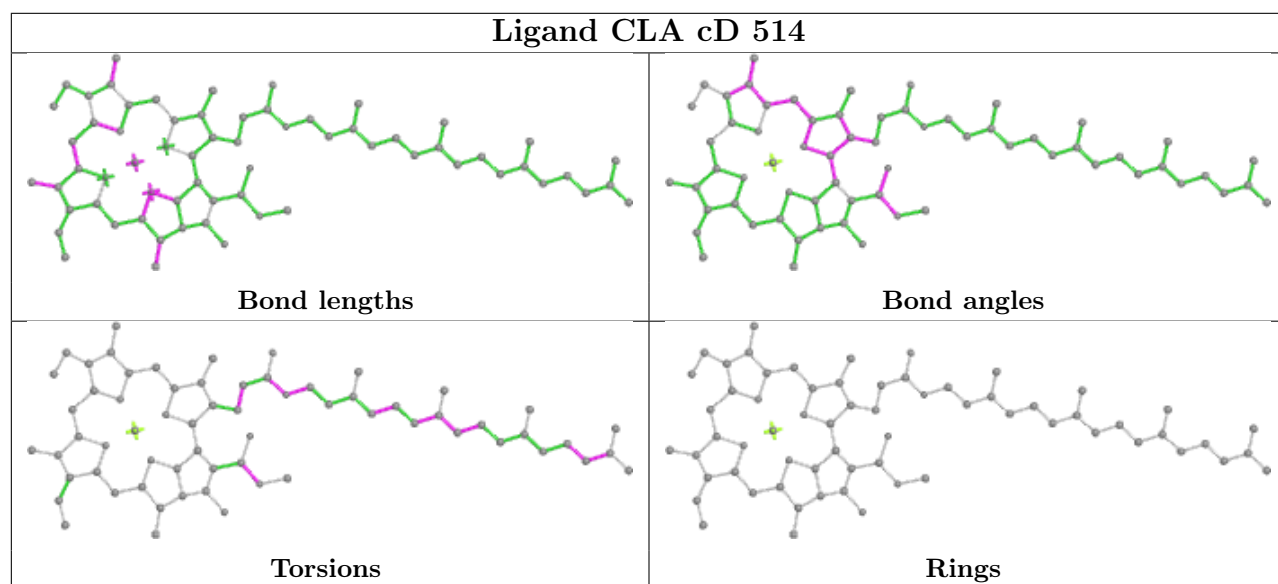
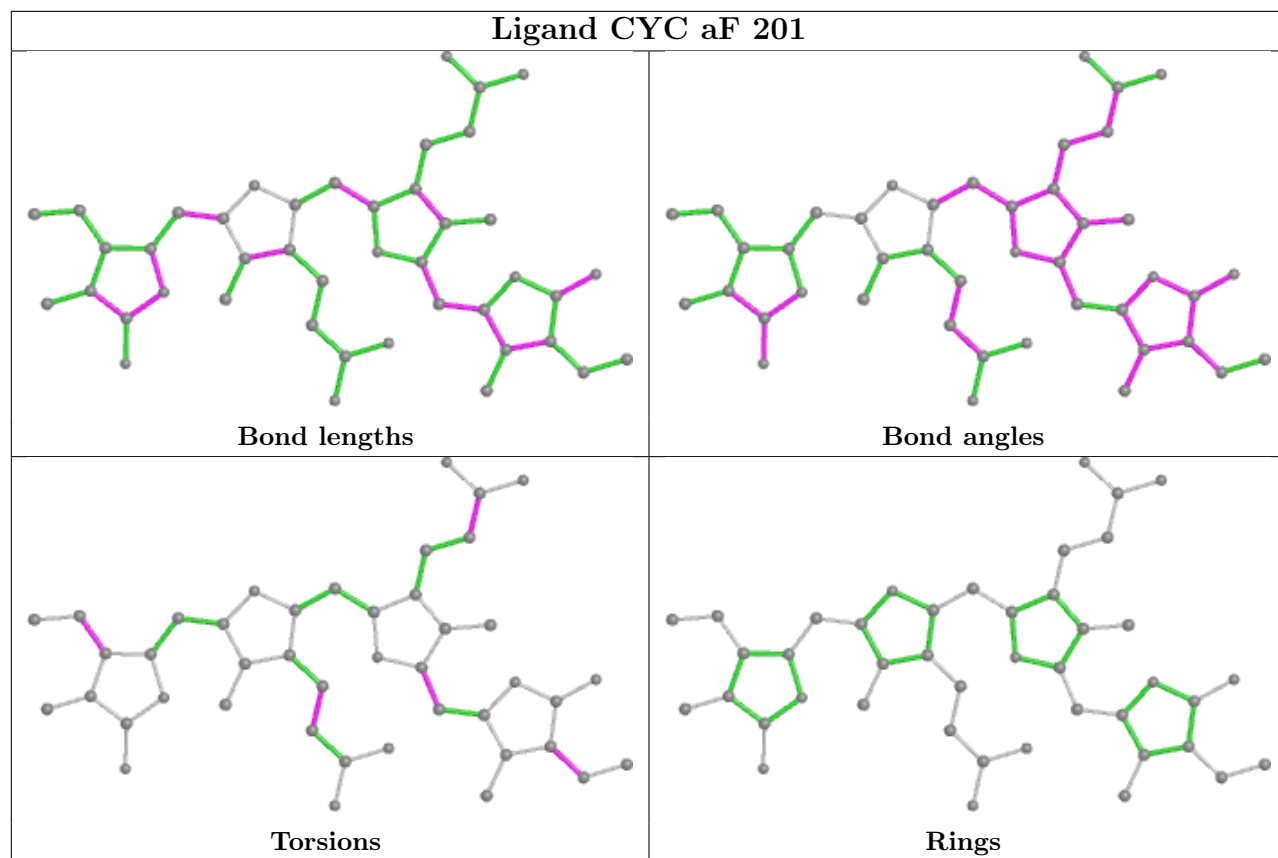
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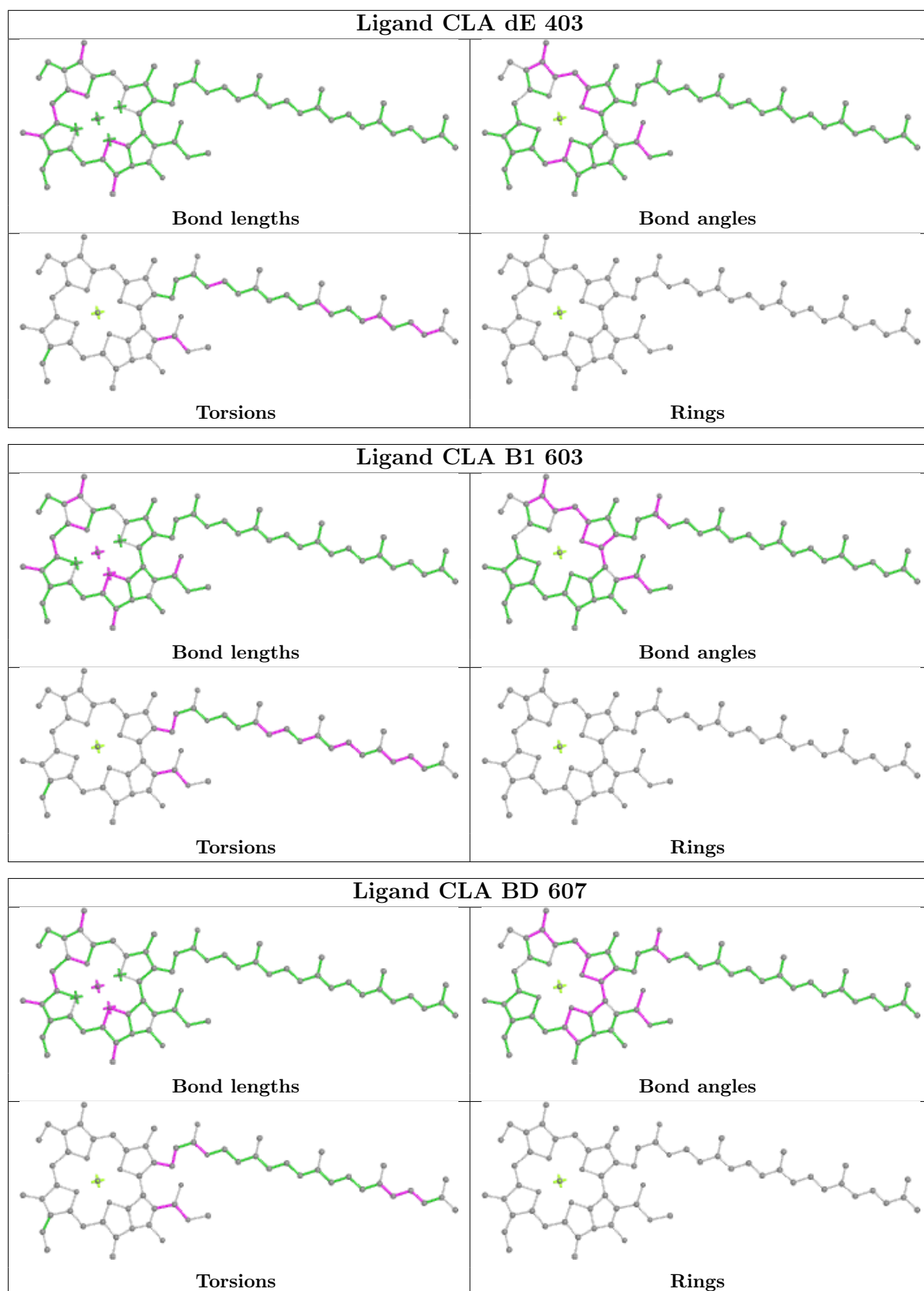
Mol	Chain	Res	Type	Atoms
44	cE	518	DGD	O1A-C1A-O1G-C1G
36	BD	602	CLA	C8-C10-C11-C12
36	BE	602	CLA	C8-C10-C11-C12
36	B1	602	CLA	C8-C10-C11-C12
36	b1	604	CLA	C8-C10-C11-C12
36	b1	606	CLA	C13-C15-C16-C17
36	bD	604	CLA	C8-C10-C11-C12
38	c1	501	SQD	C15-C16-C17-C18
44	c1	518	DGD	C4A-C5A-C6A-C7A
38	cD	502	SQD	C15-C16-C17-C18
44	hD	104	DGD	C4A-C5A-C6A-C7A
44	hE	104	DGD	C4A-C5A-C6A-C7A
36	CD	509	CLA	CAA-CBA-CGA-O2A
36	CE	509	CLA	CAA-CBA-CGA-O2A
39	CD	519	LMG	O7-C10-C11-C12
39	CE	519	LMG	O7-C10-C11-C12
39	C1	519	LMG	O7-C10-C11-C12
42	DE	409	LHG	O8-C23-C24-C25
42	d1	409	LHG	O8-C23-C24-C25
42	dD	409	LHG	O8-C23-C24-C25
42	dE	409	LHG	O8-C23-C24-C25
33	JF	201	CYC	CAA-CBA-CGA-O1A
33	LG	201	CYC	CAD-CBD-CGD-O1D
33	JK	201	CYC	CAA-CBA-CGA-O1A
33	LL	201	CYC	CAD-CBD-CGD-O1D

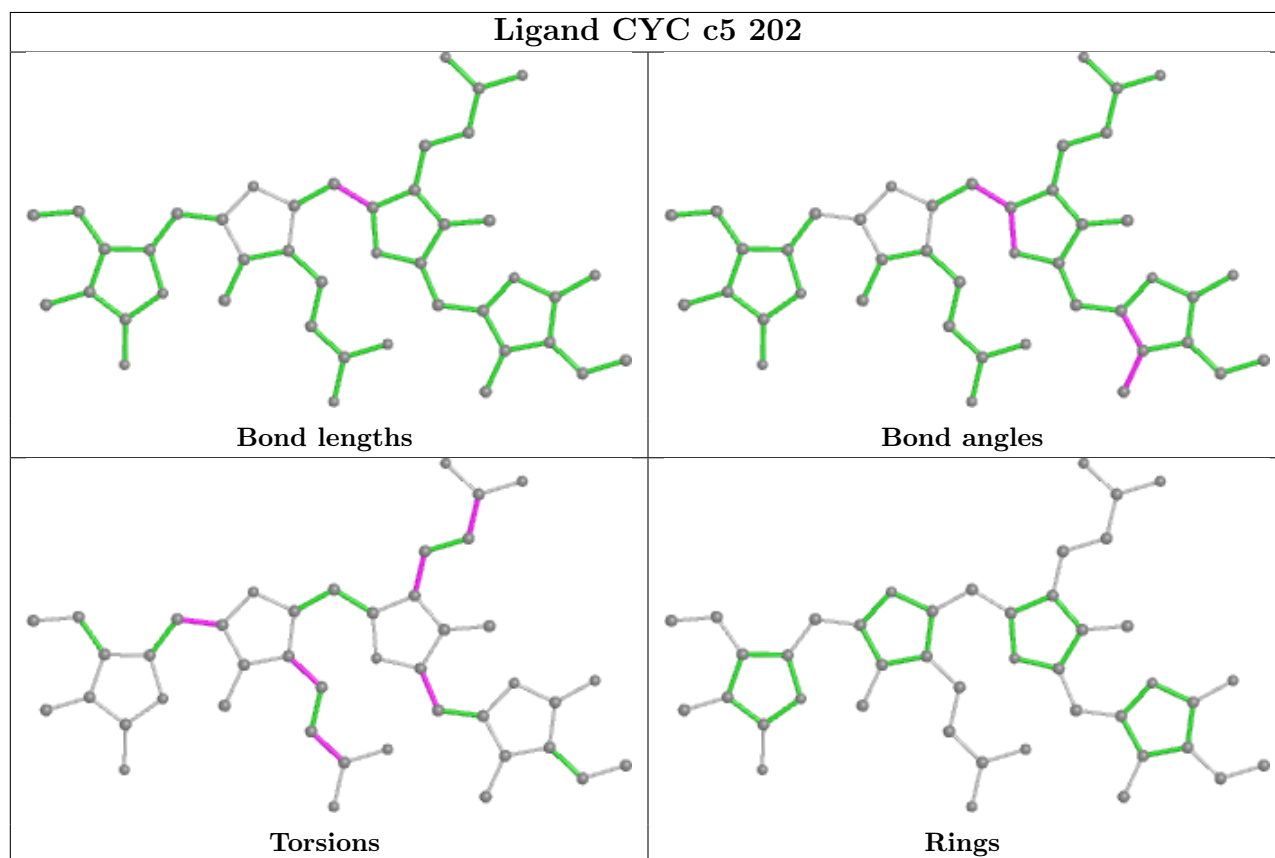
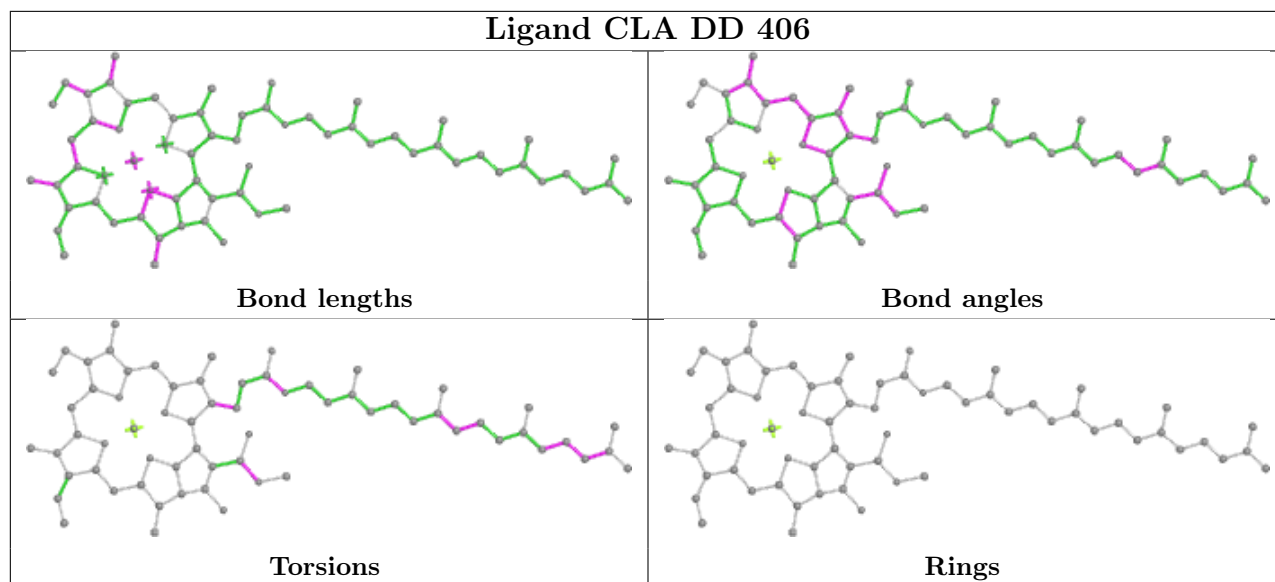
There are no ring outliers.

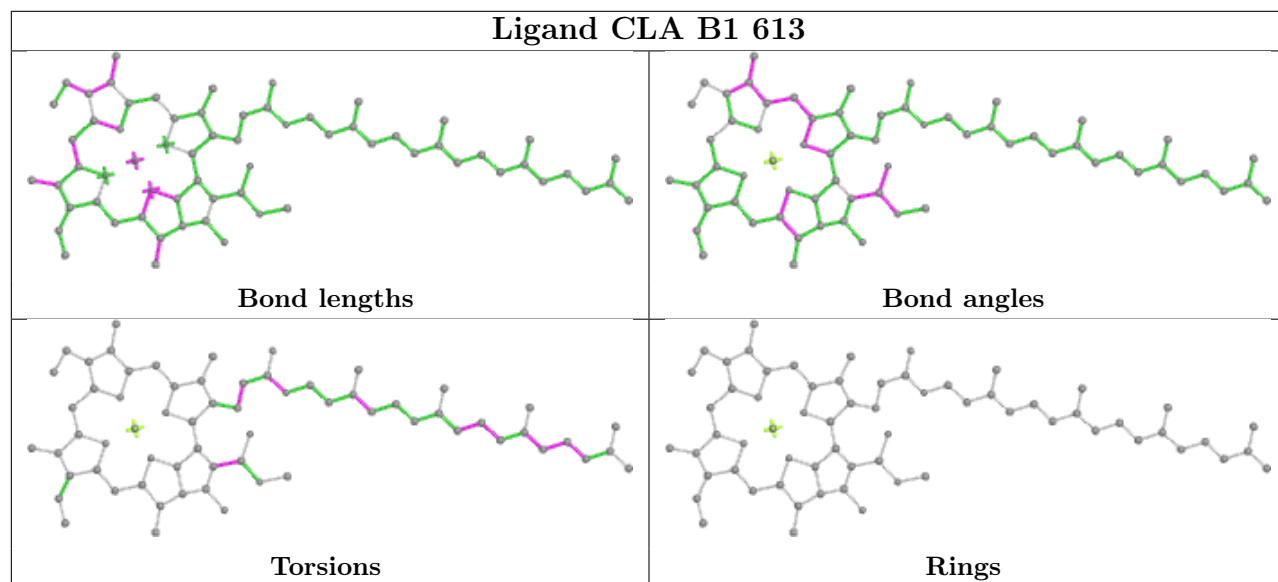
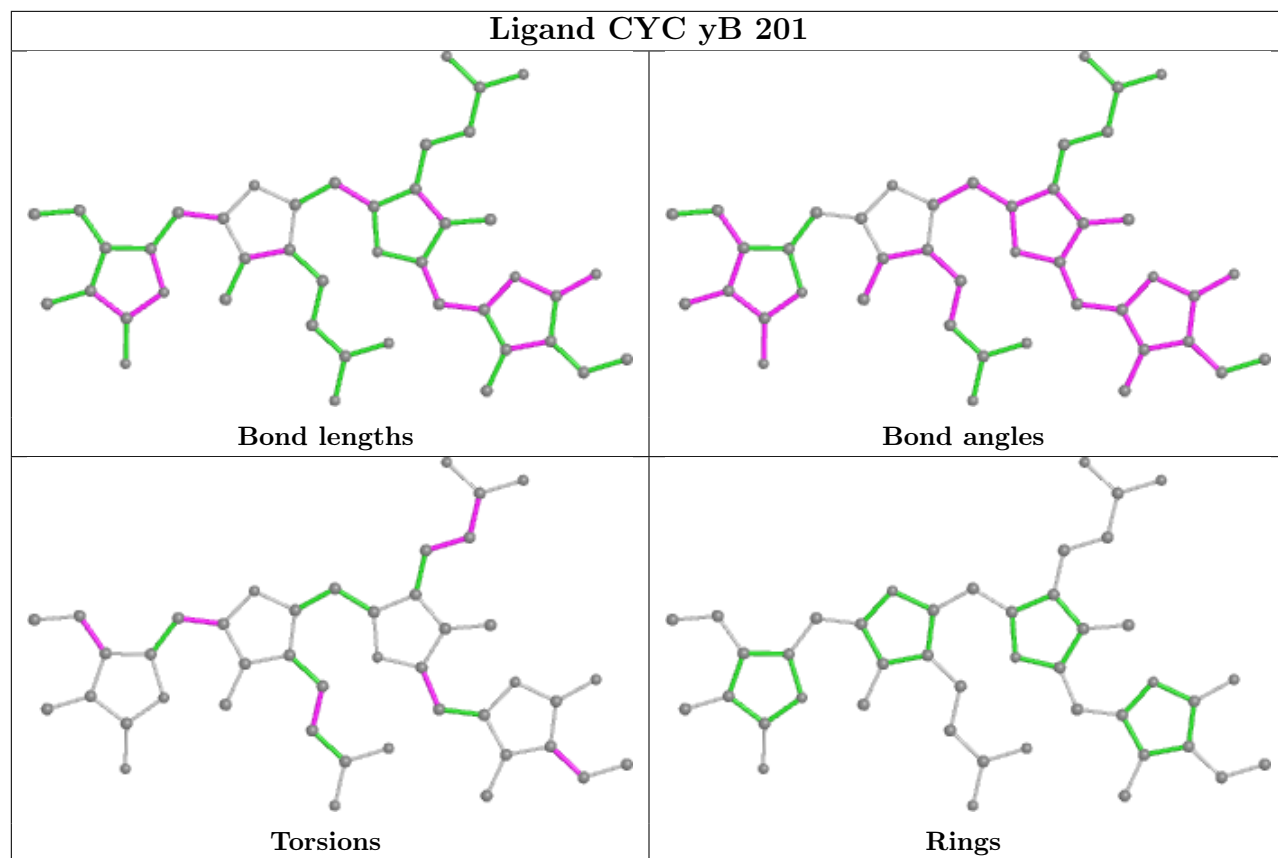
No monomer is involved in short contacts.

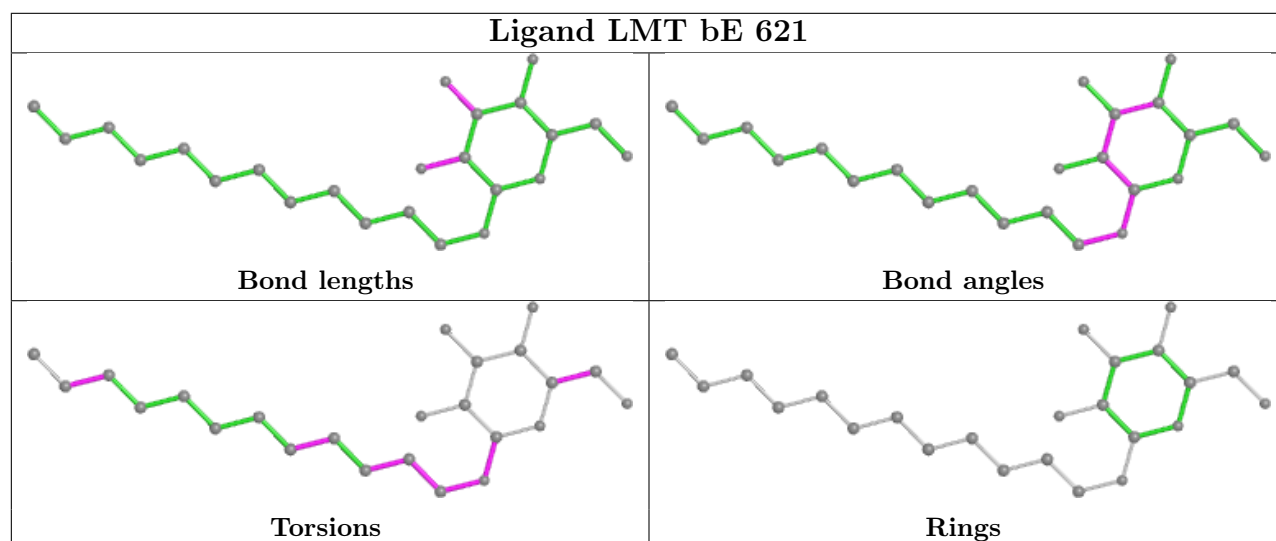
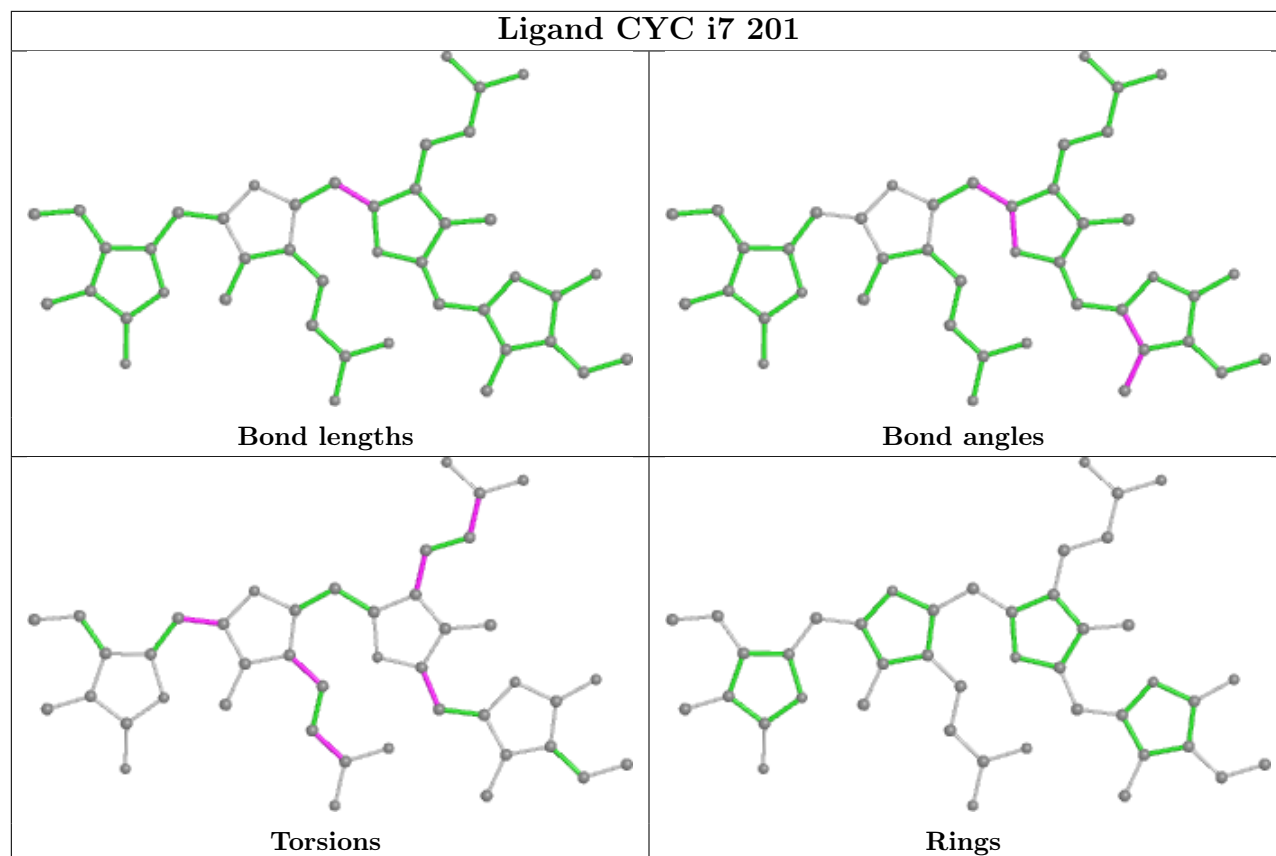
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

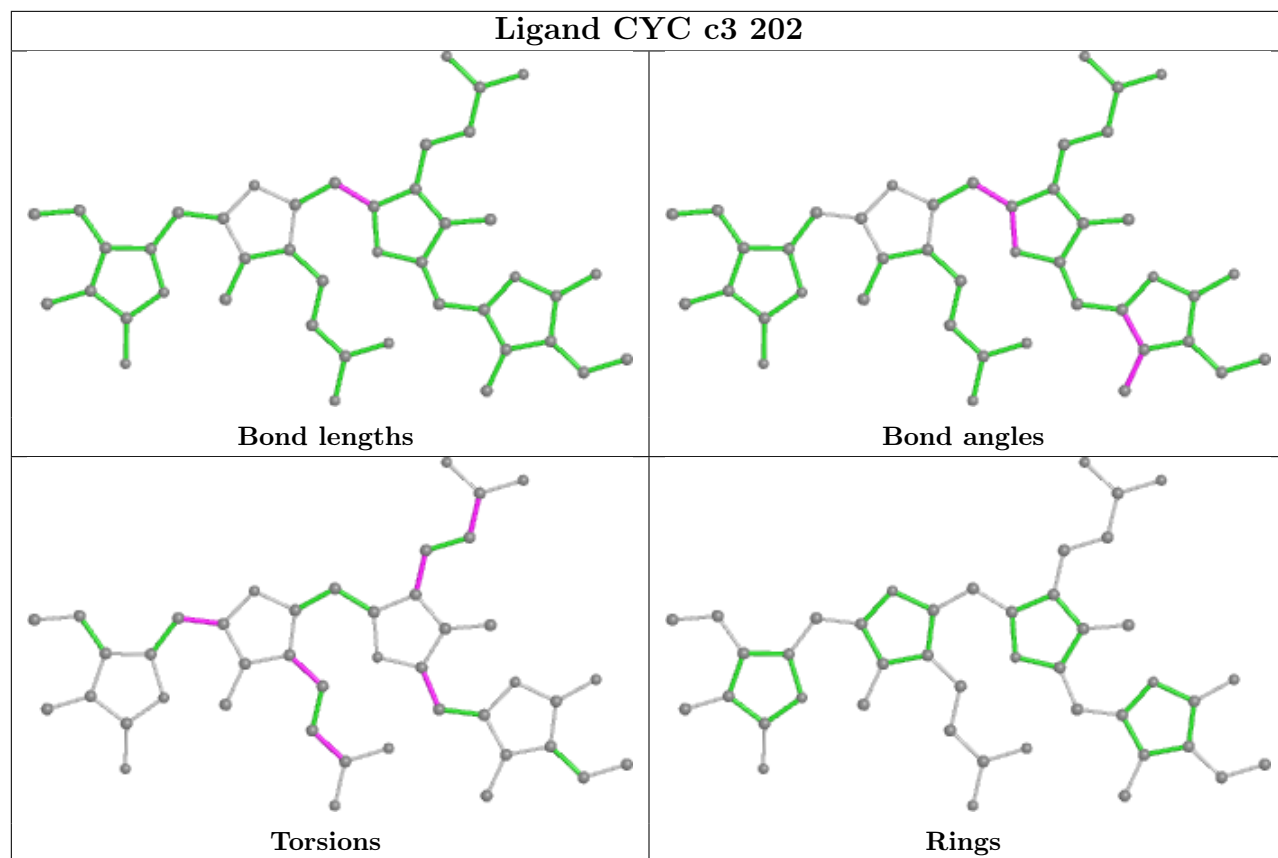


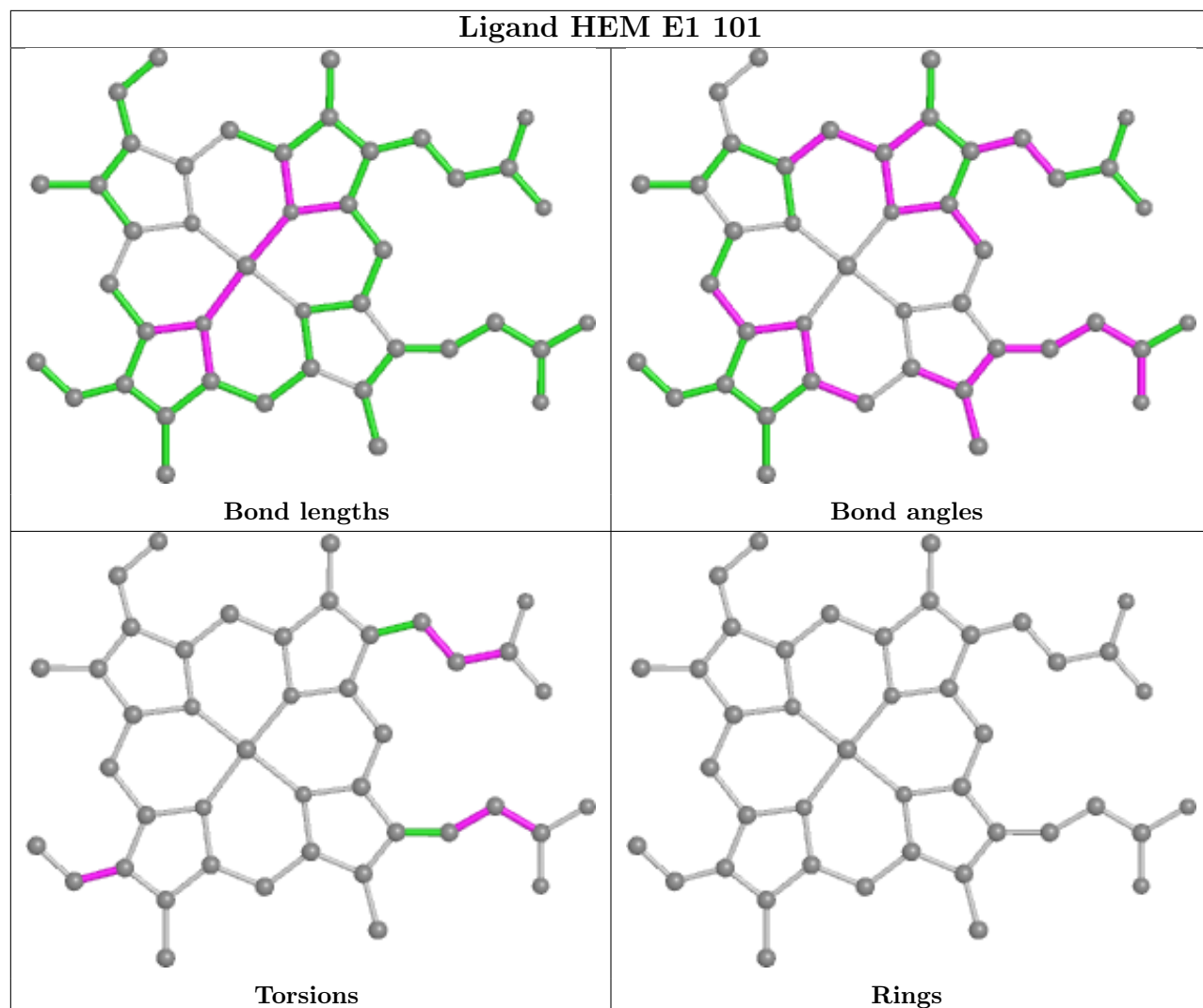


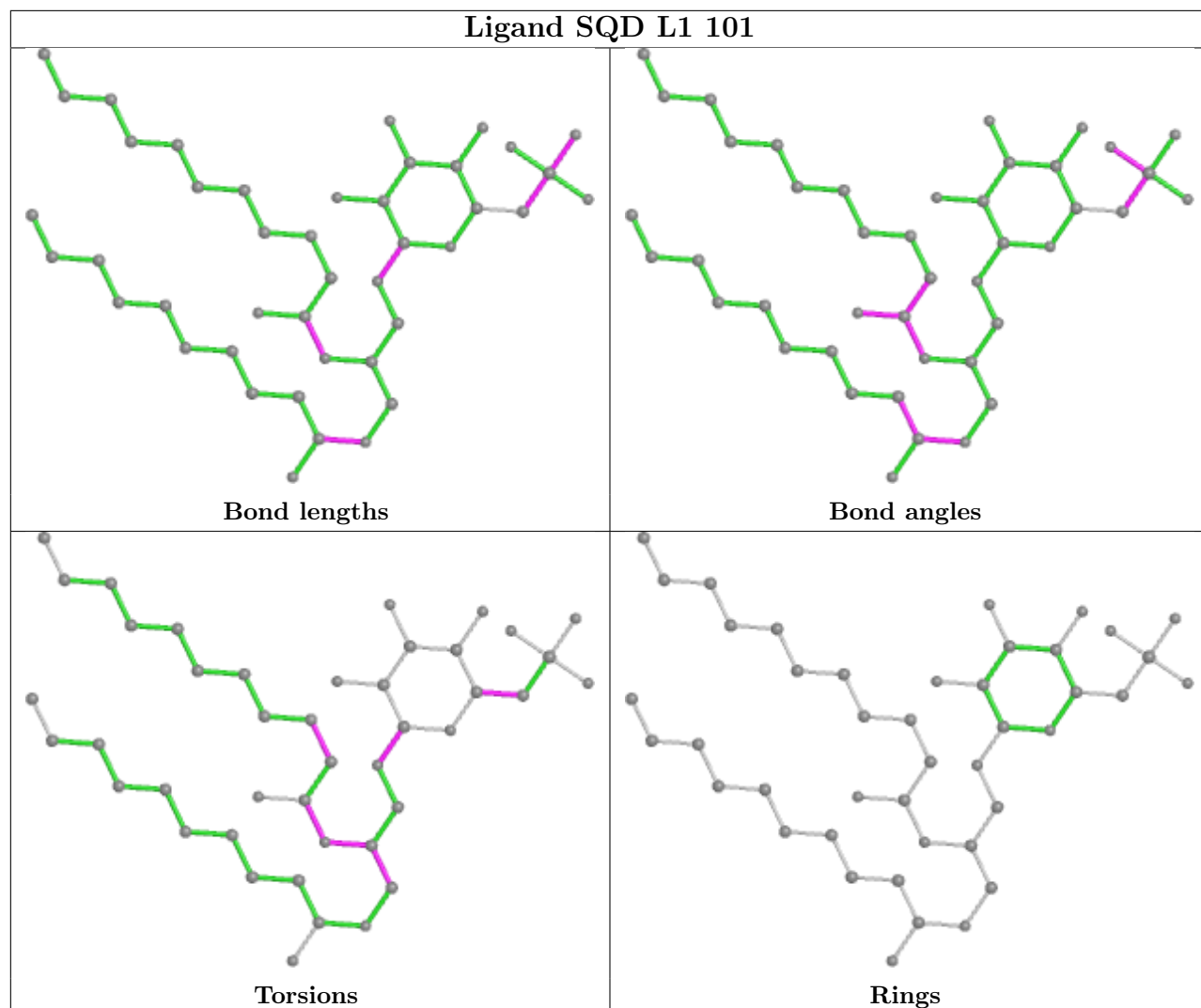


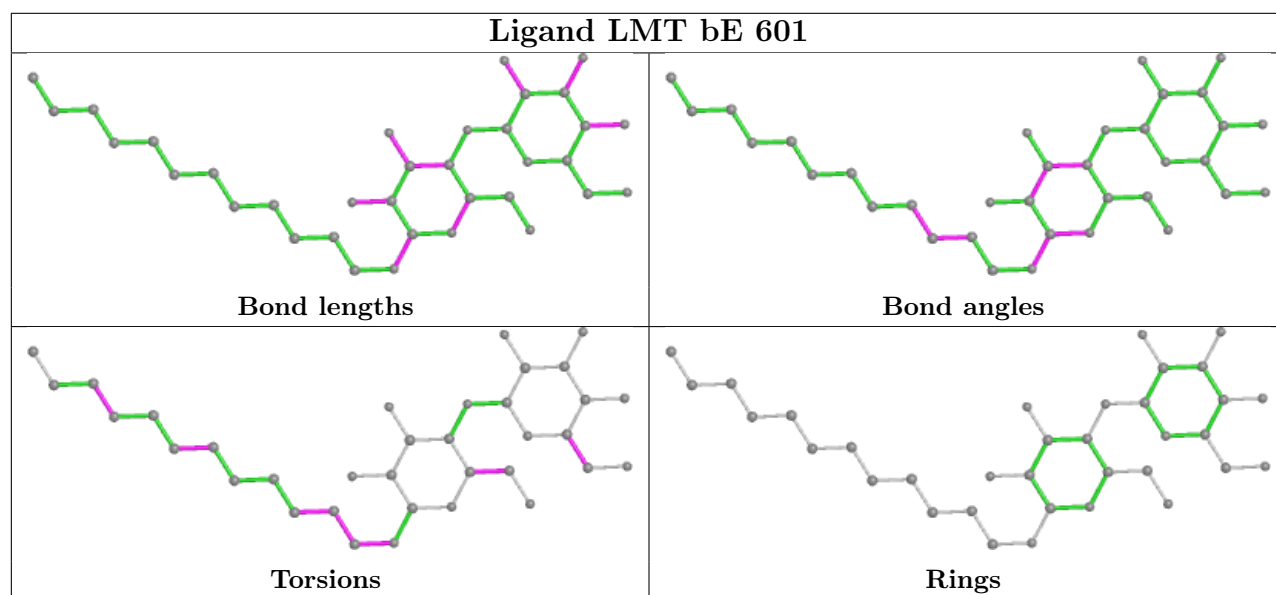
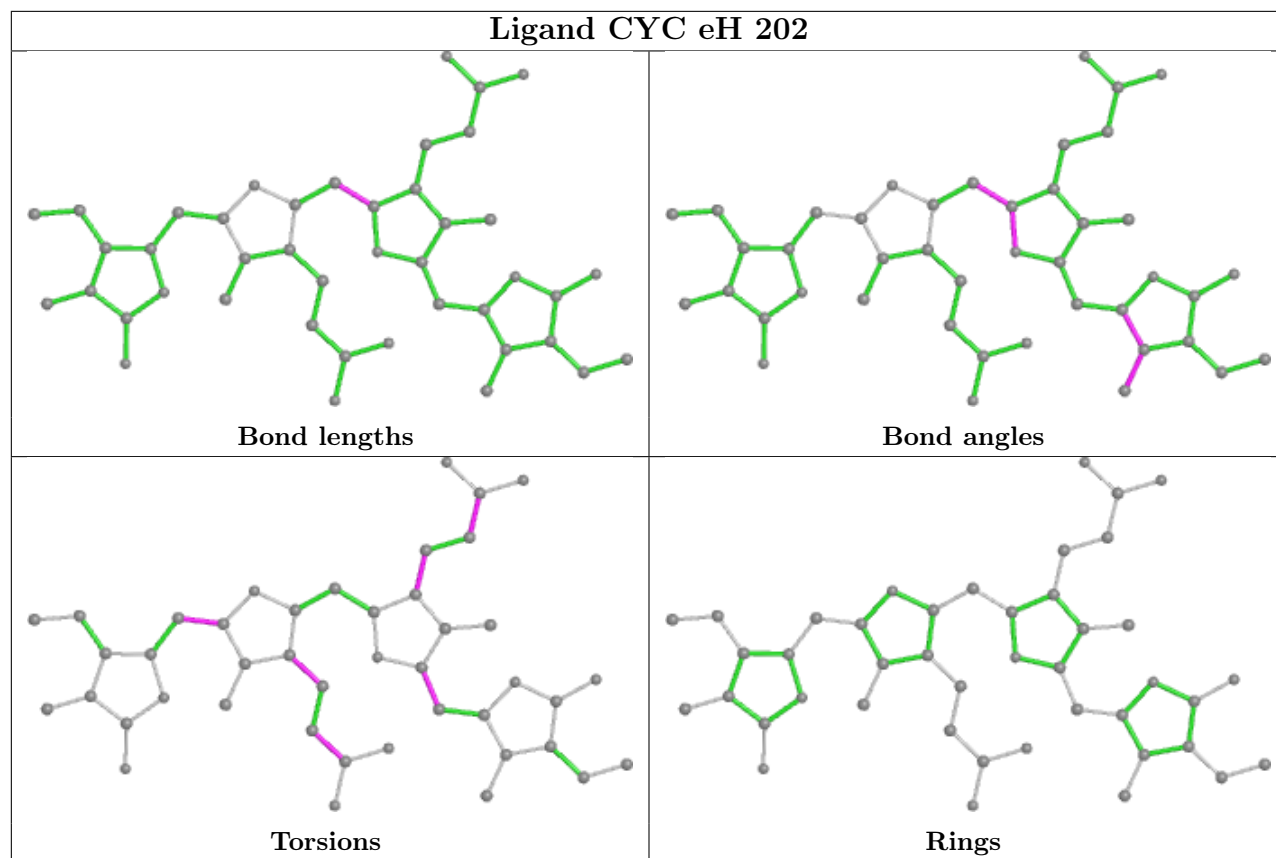


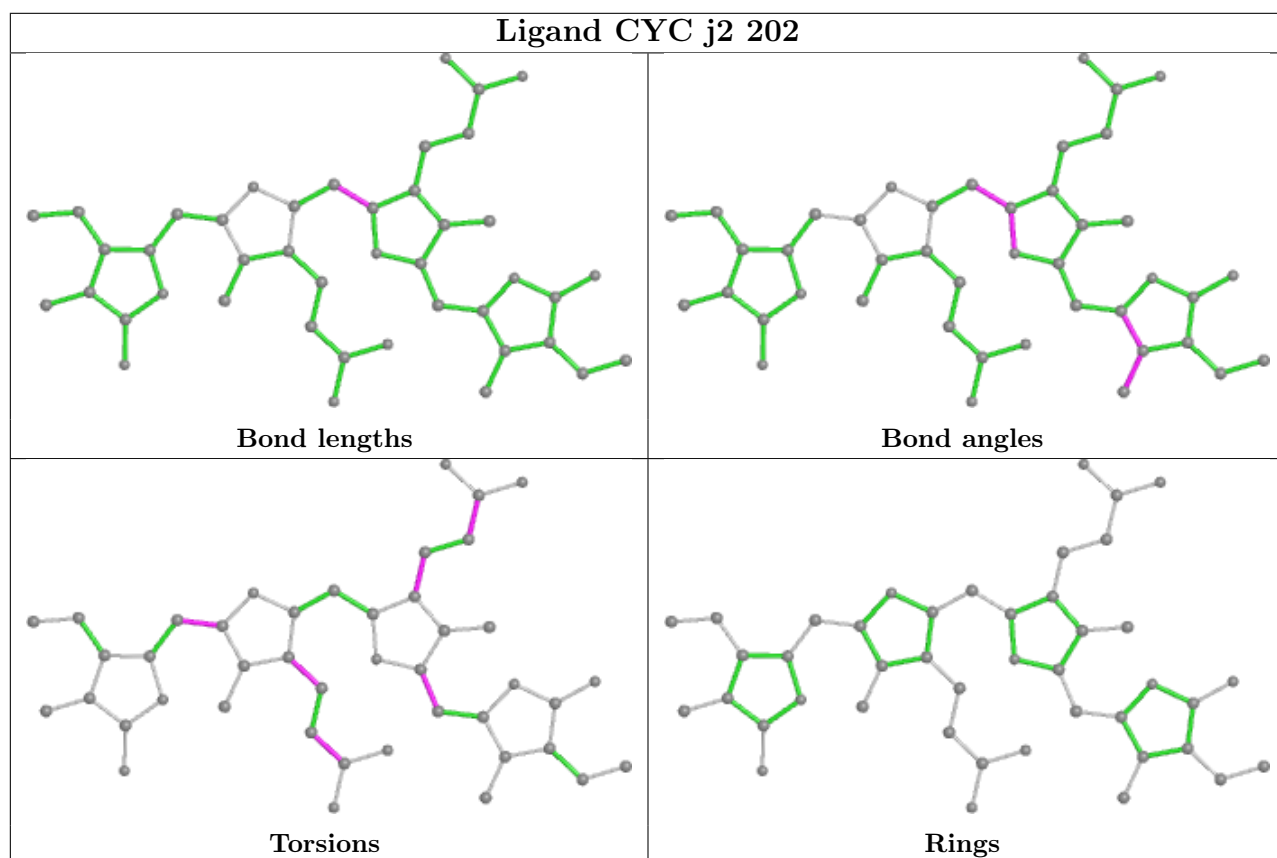
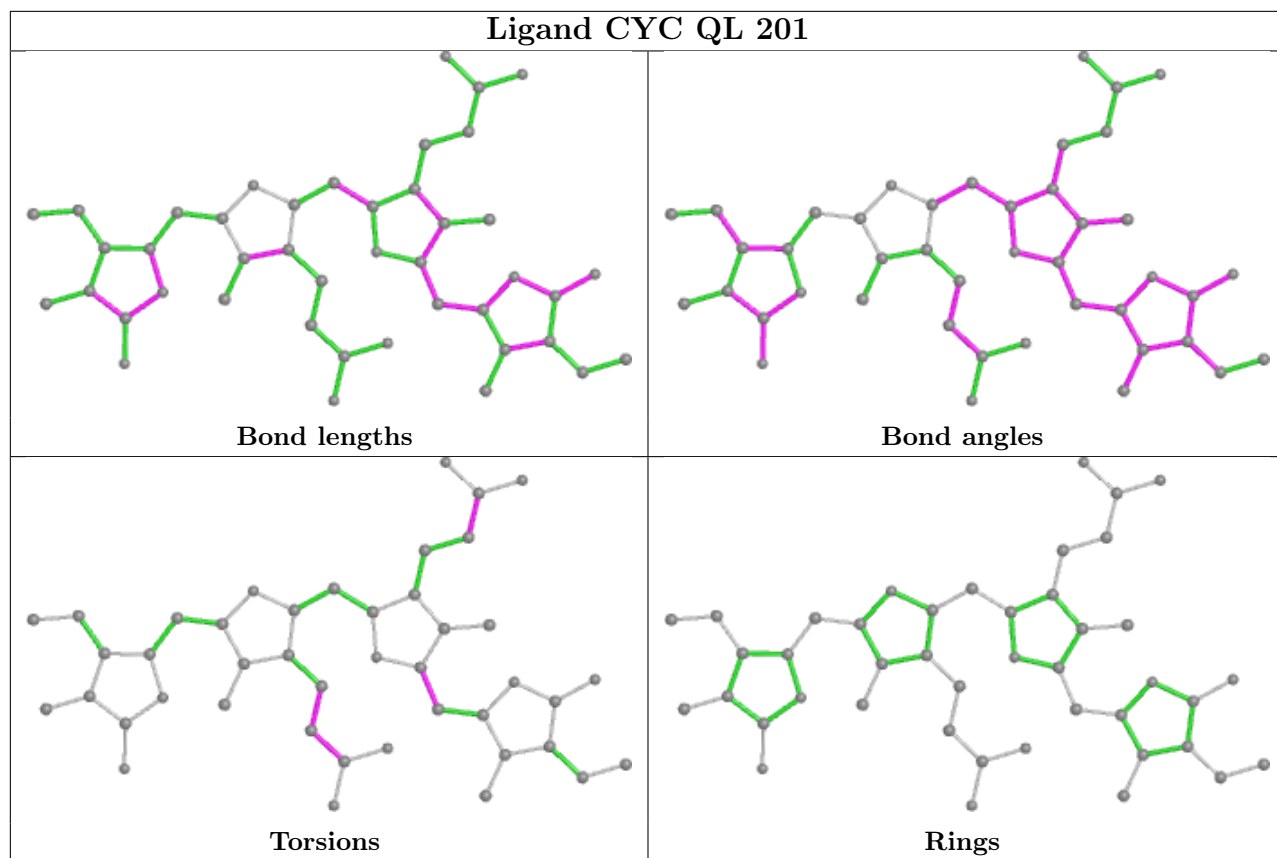


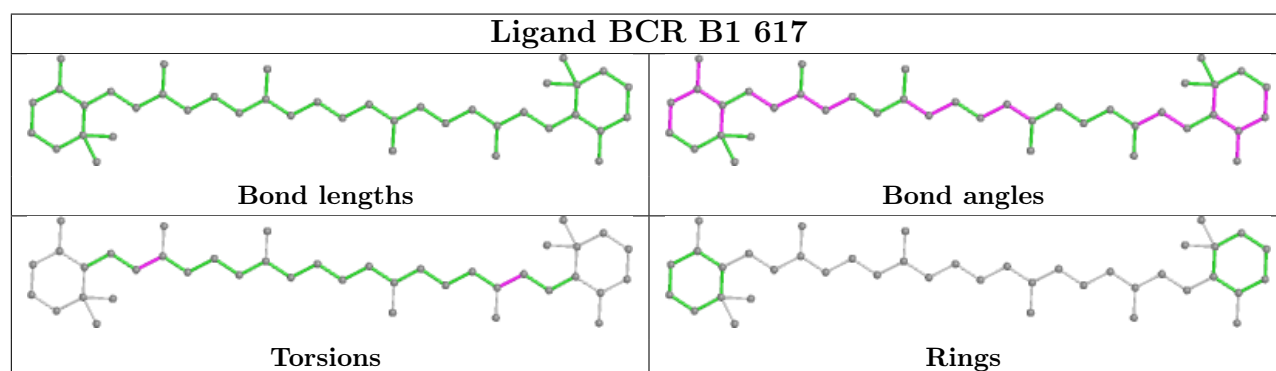
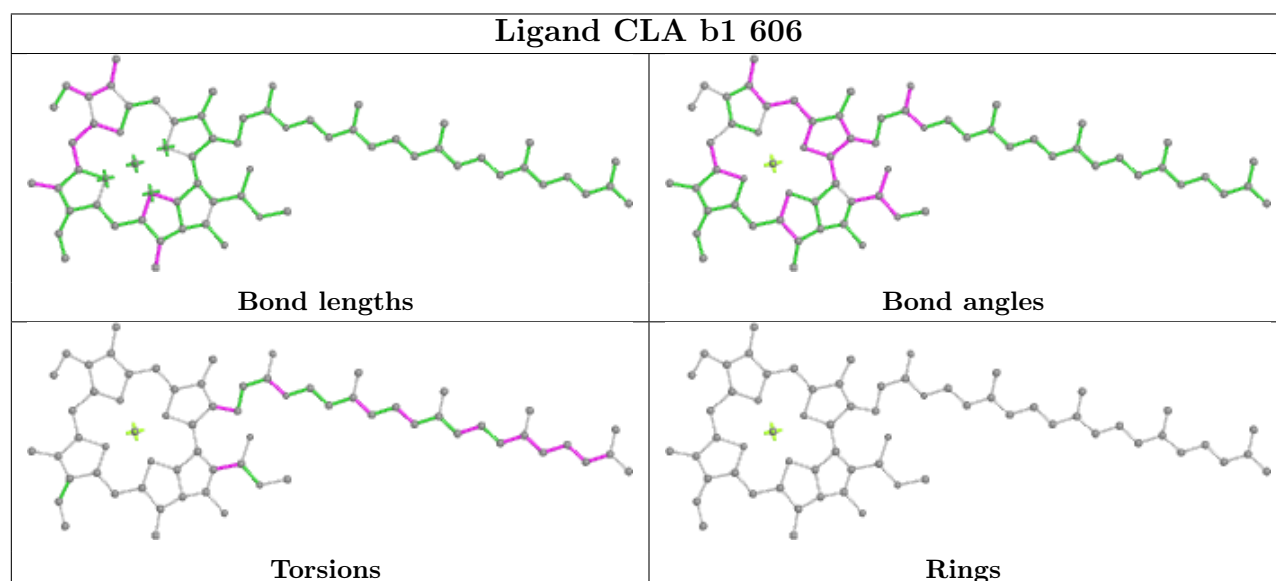
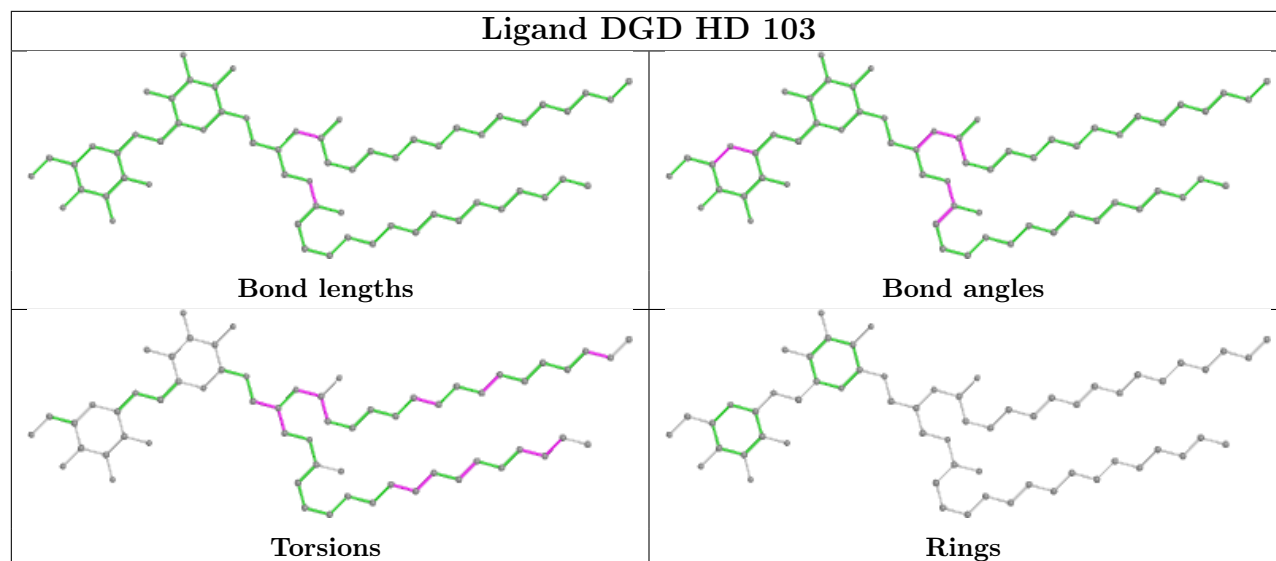


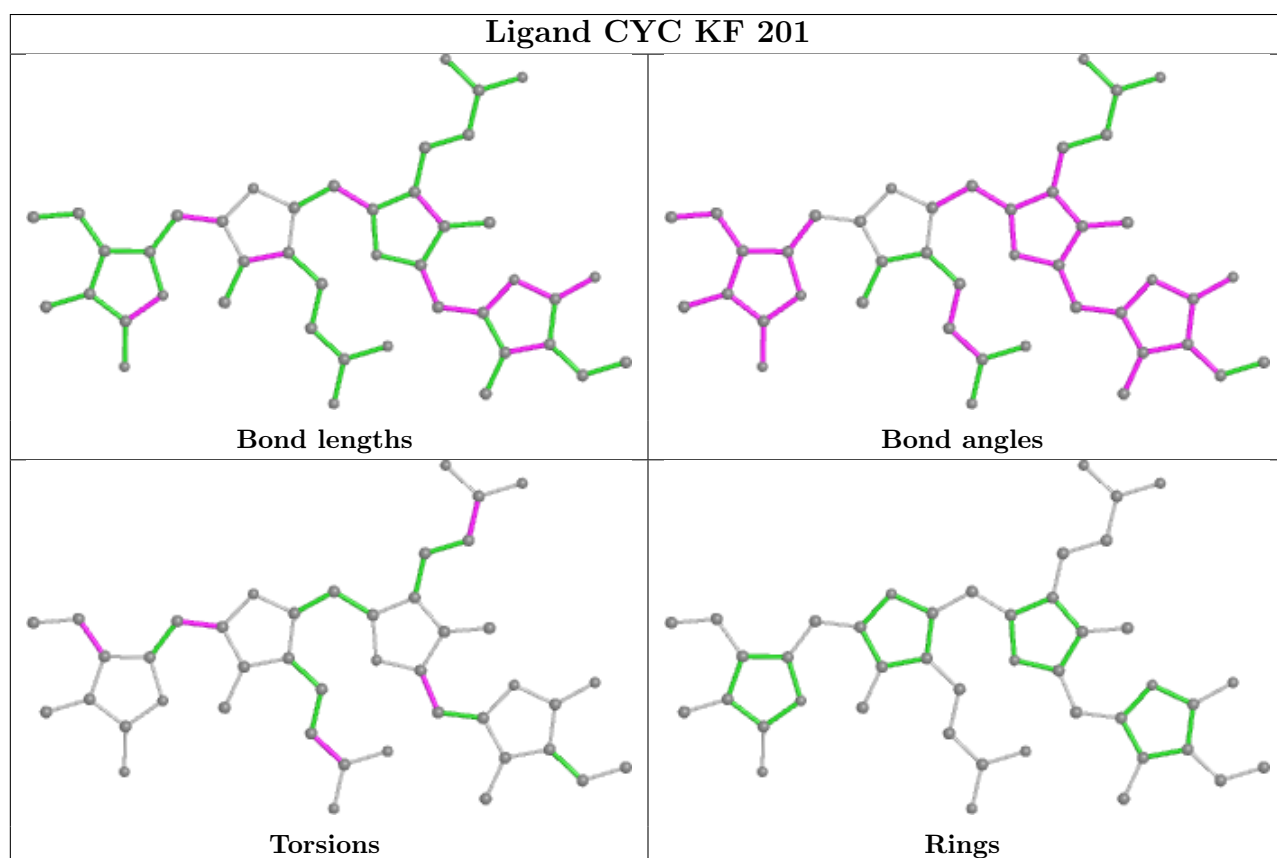
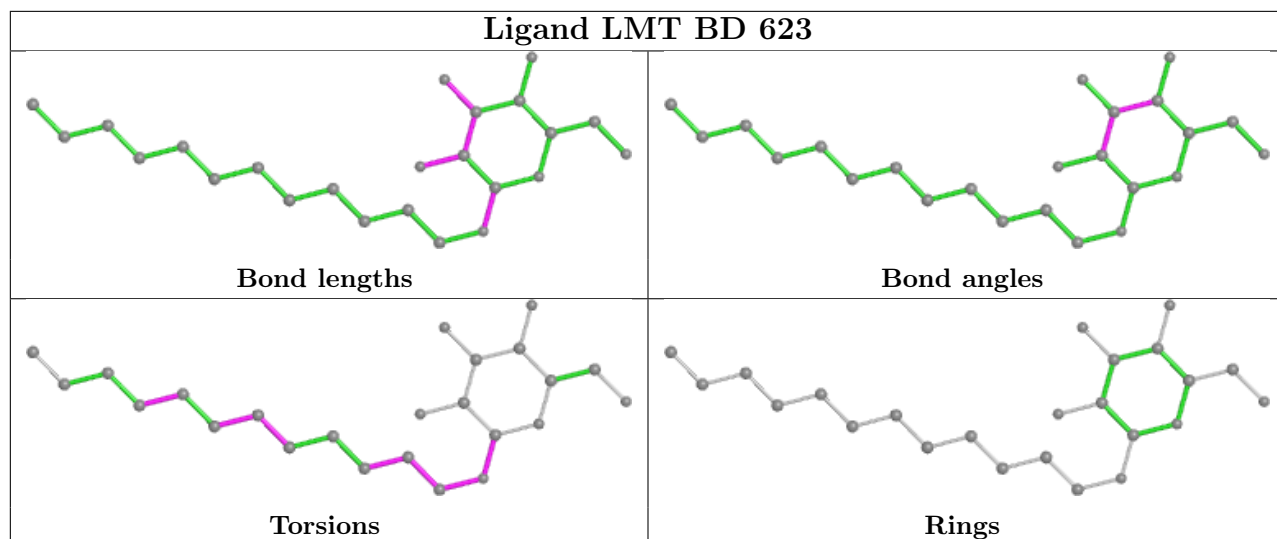


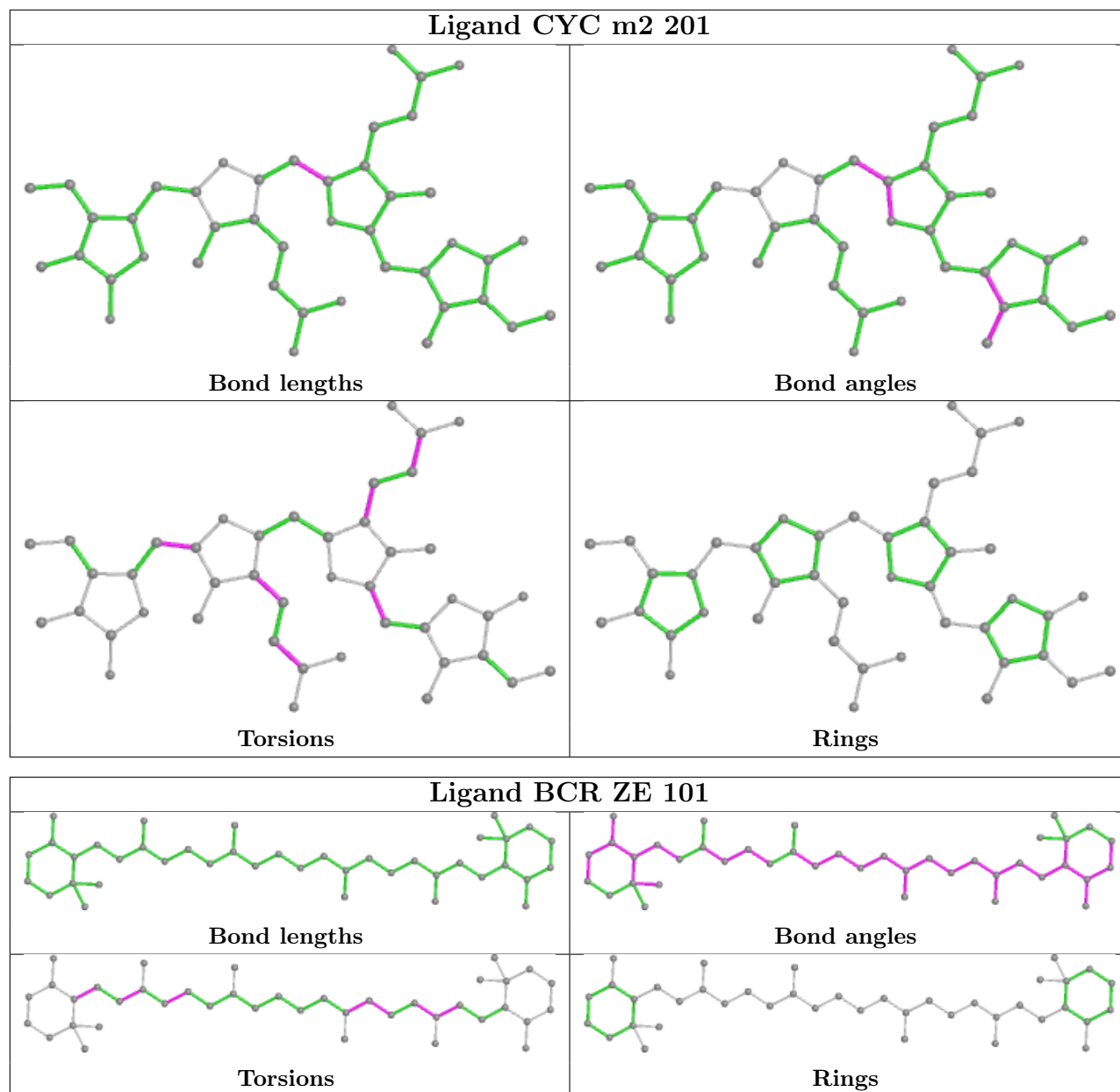


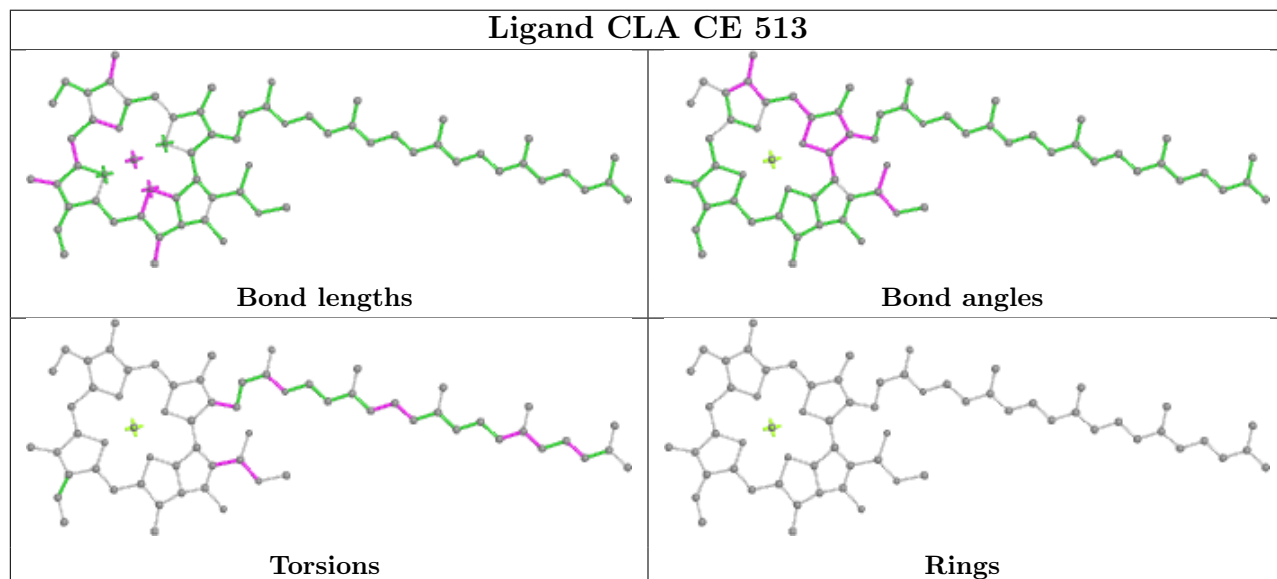
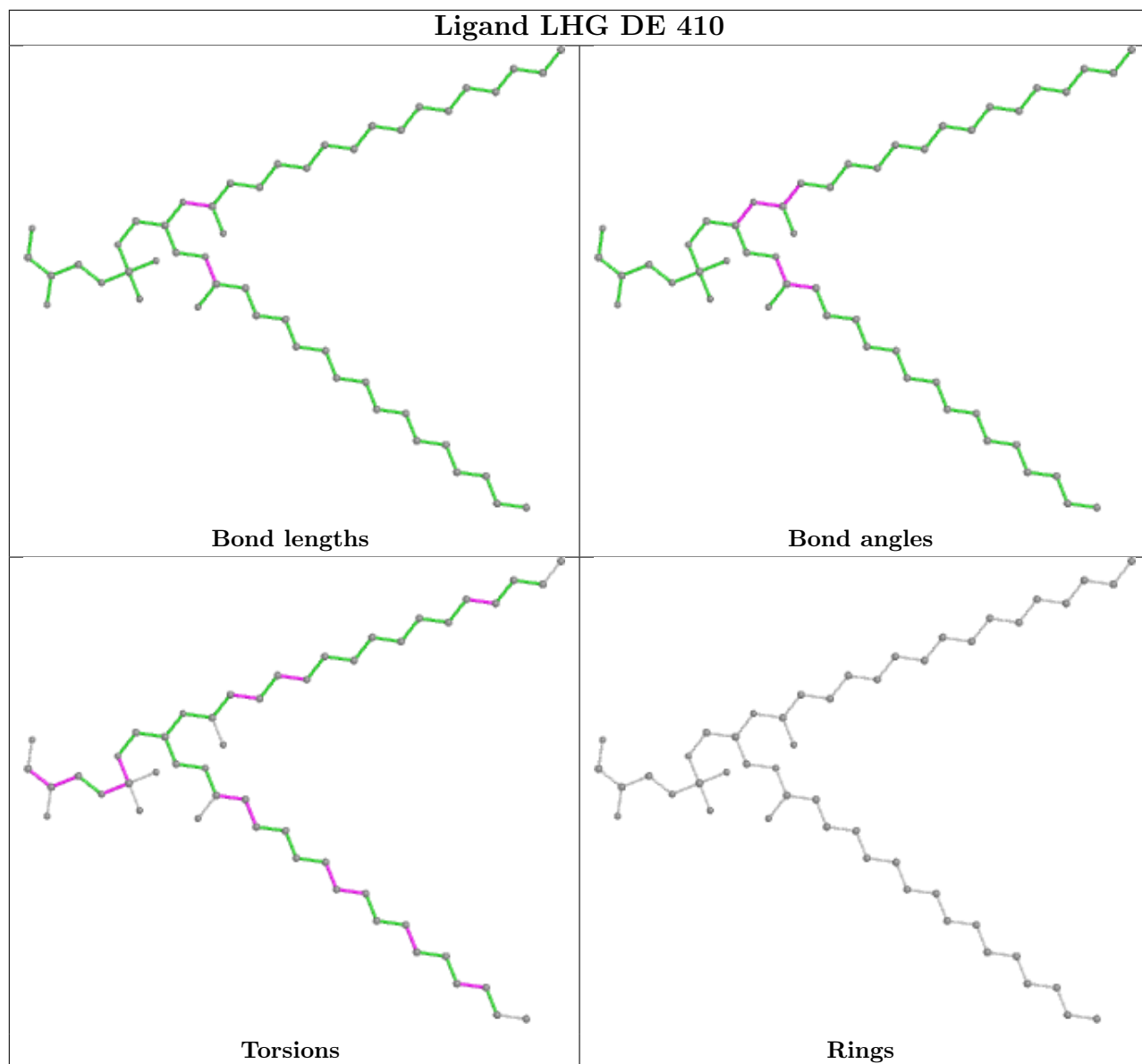


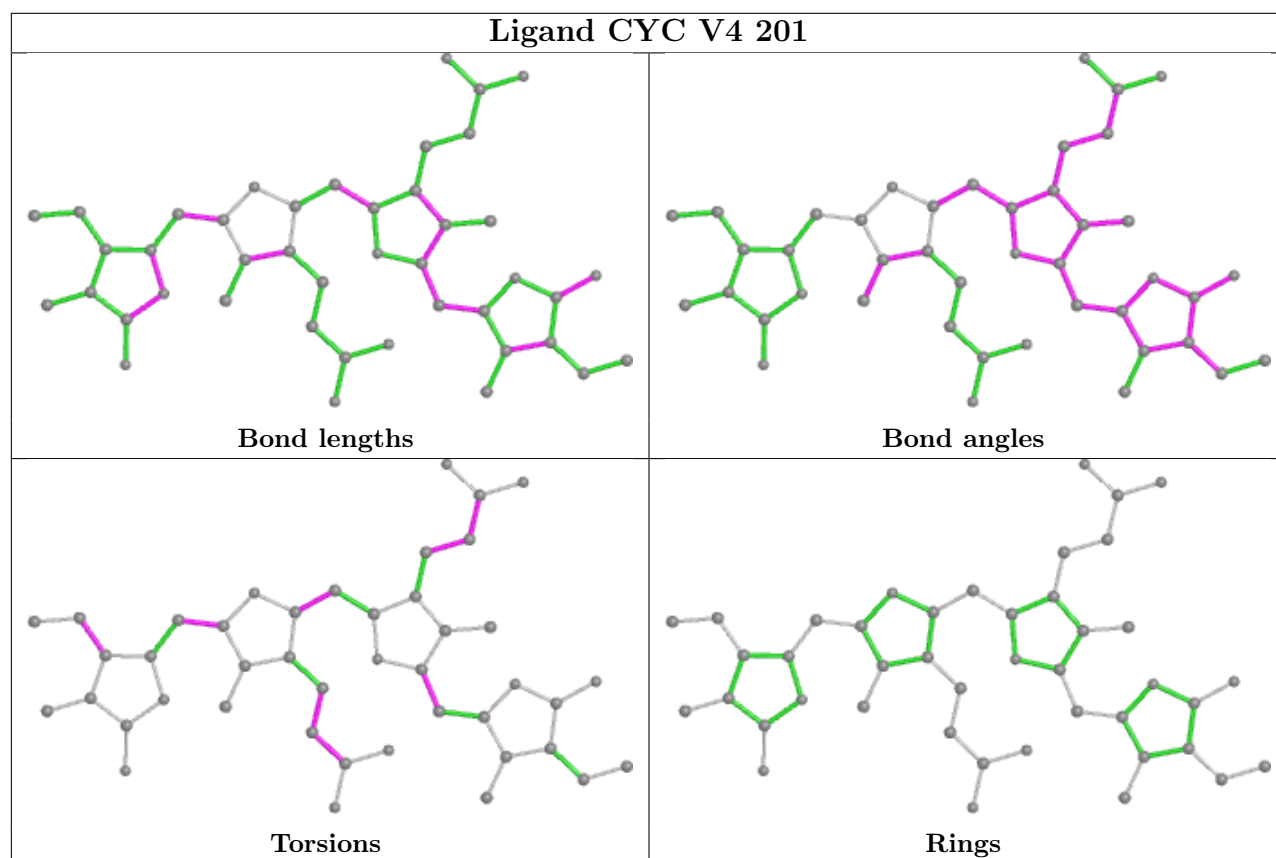
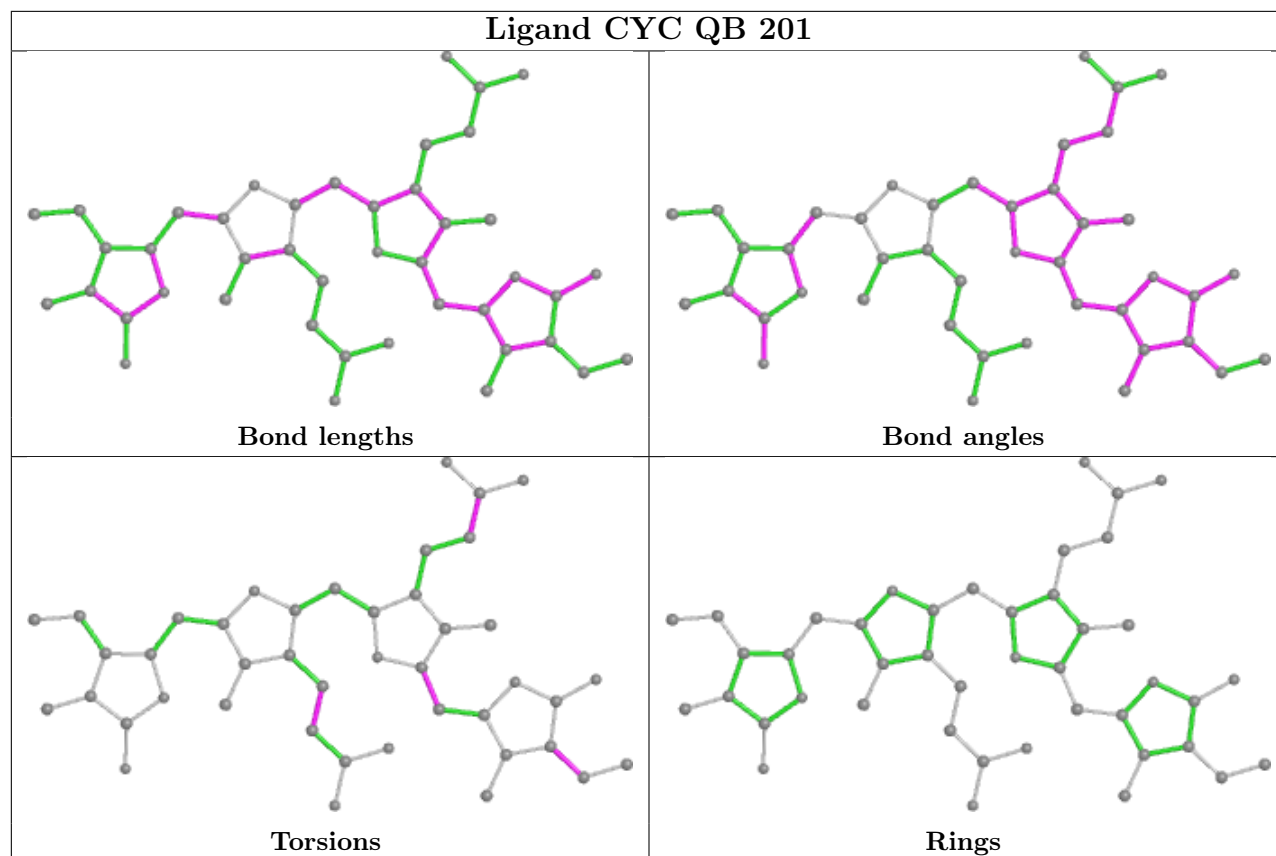


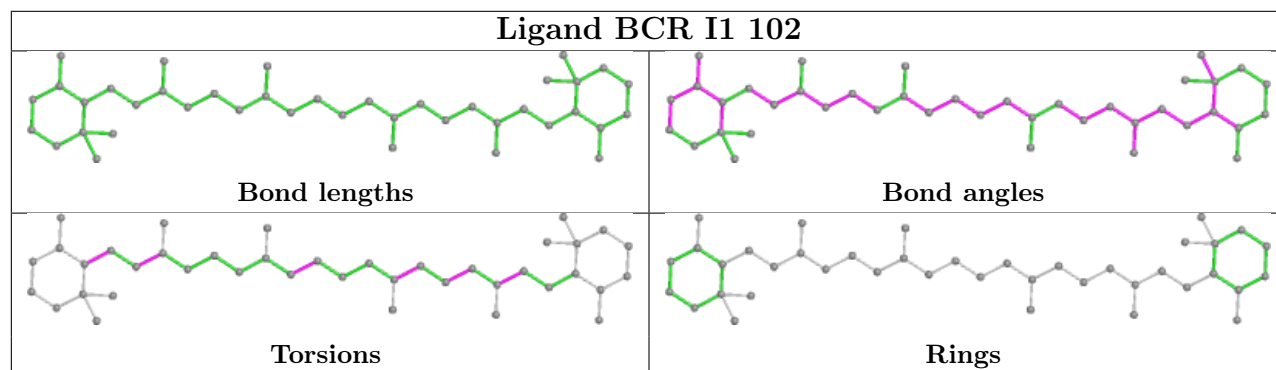
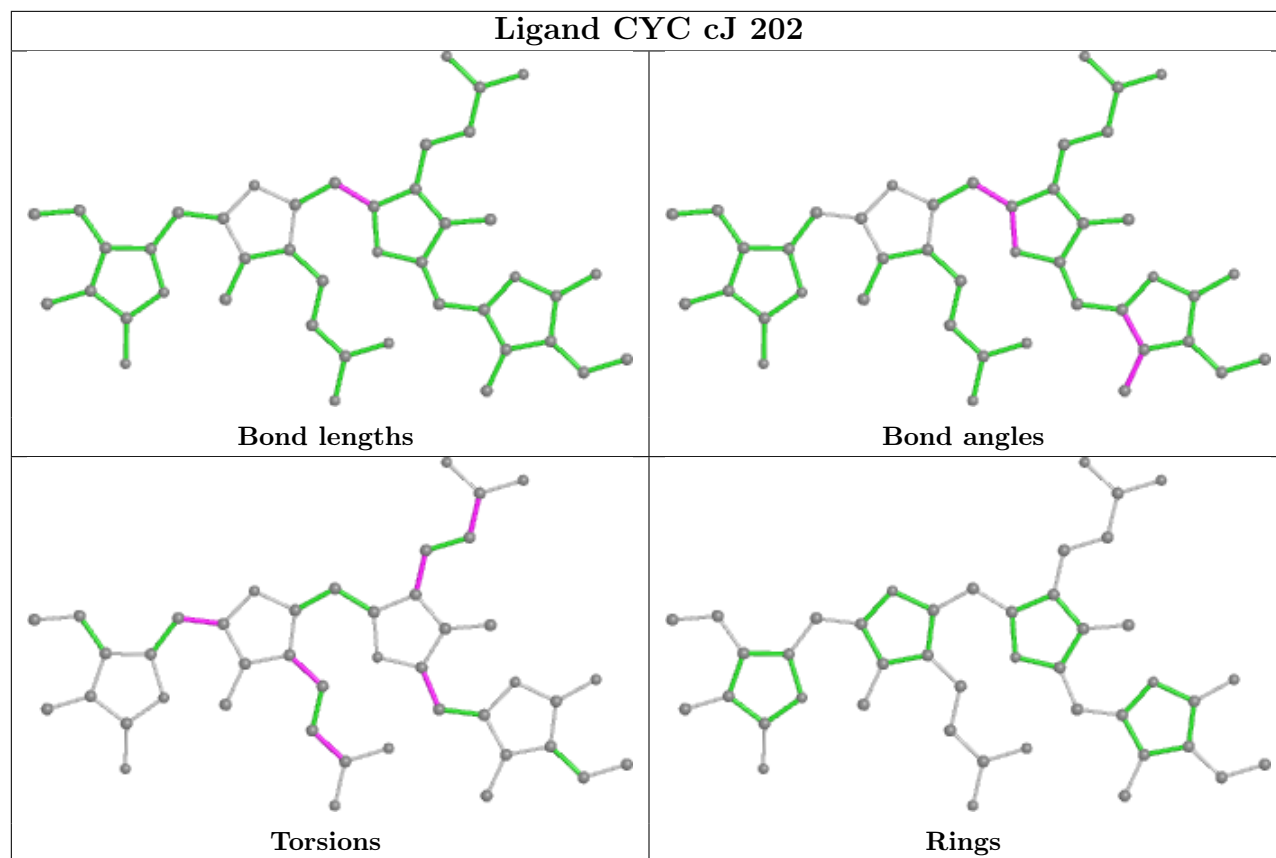


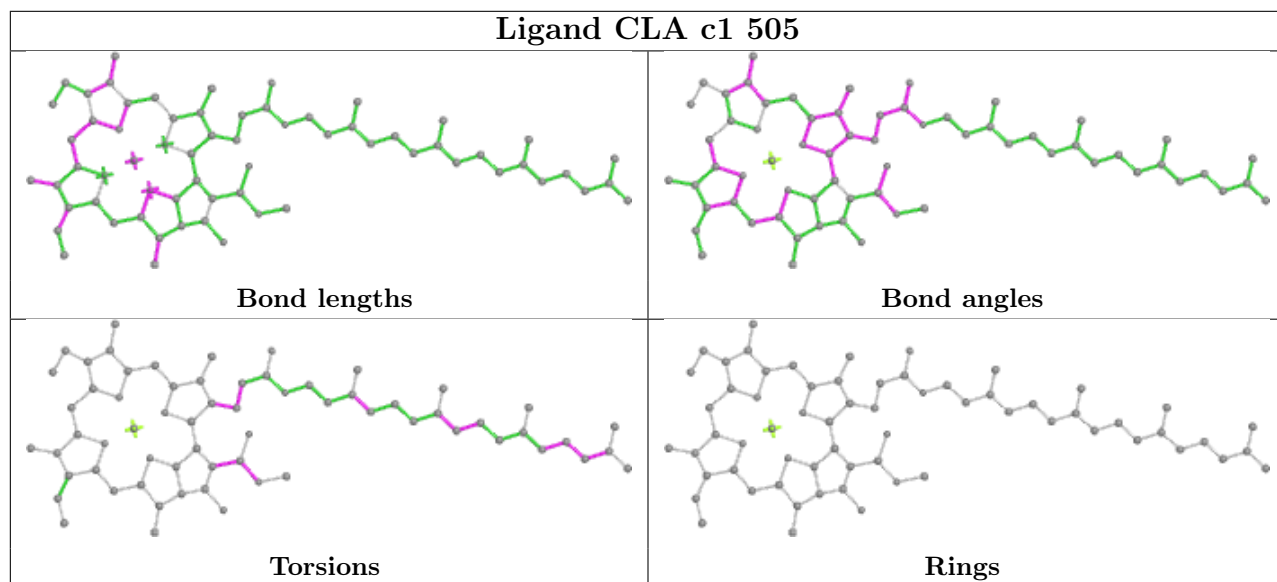
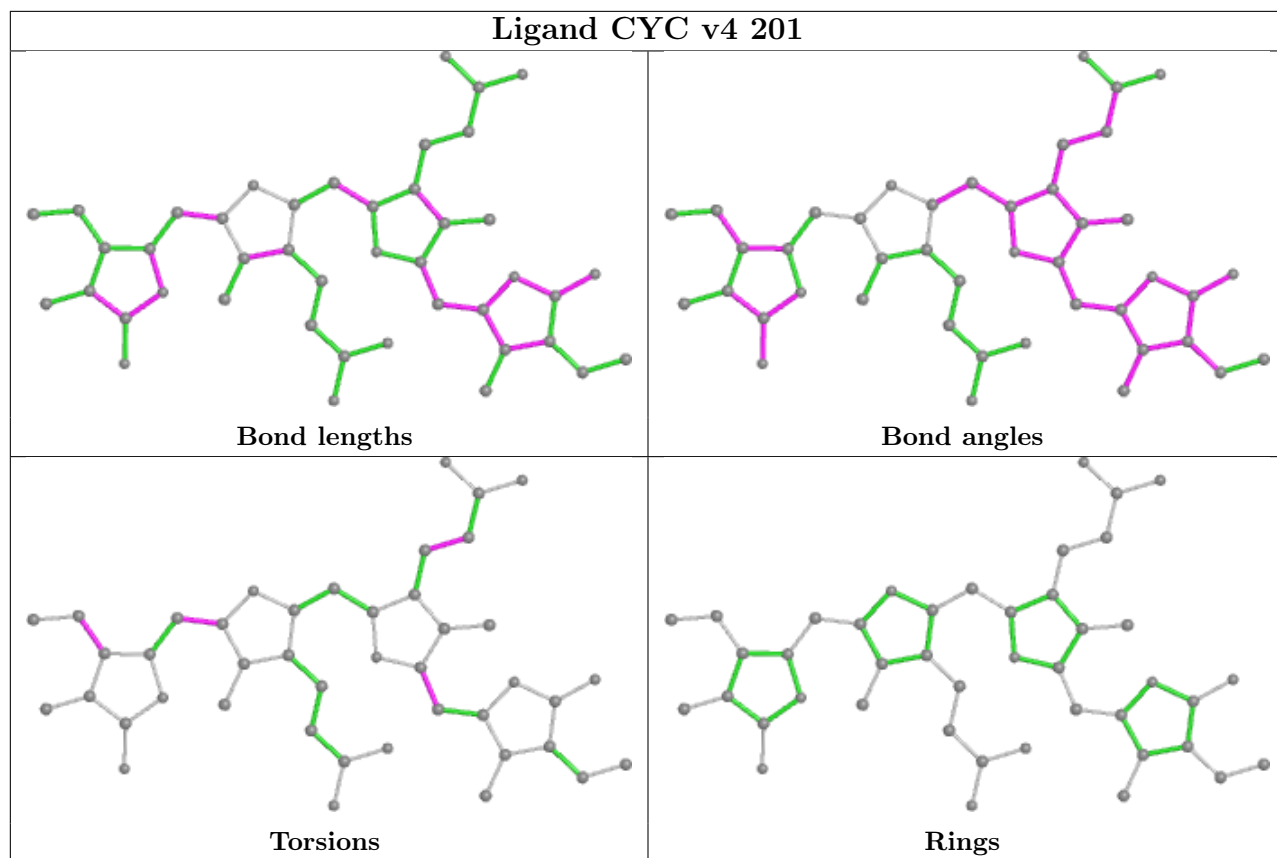


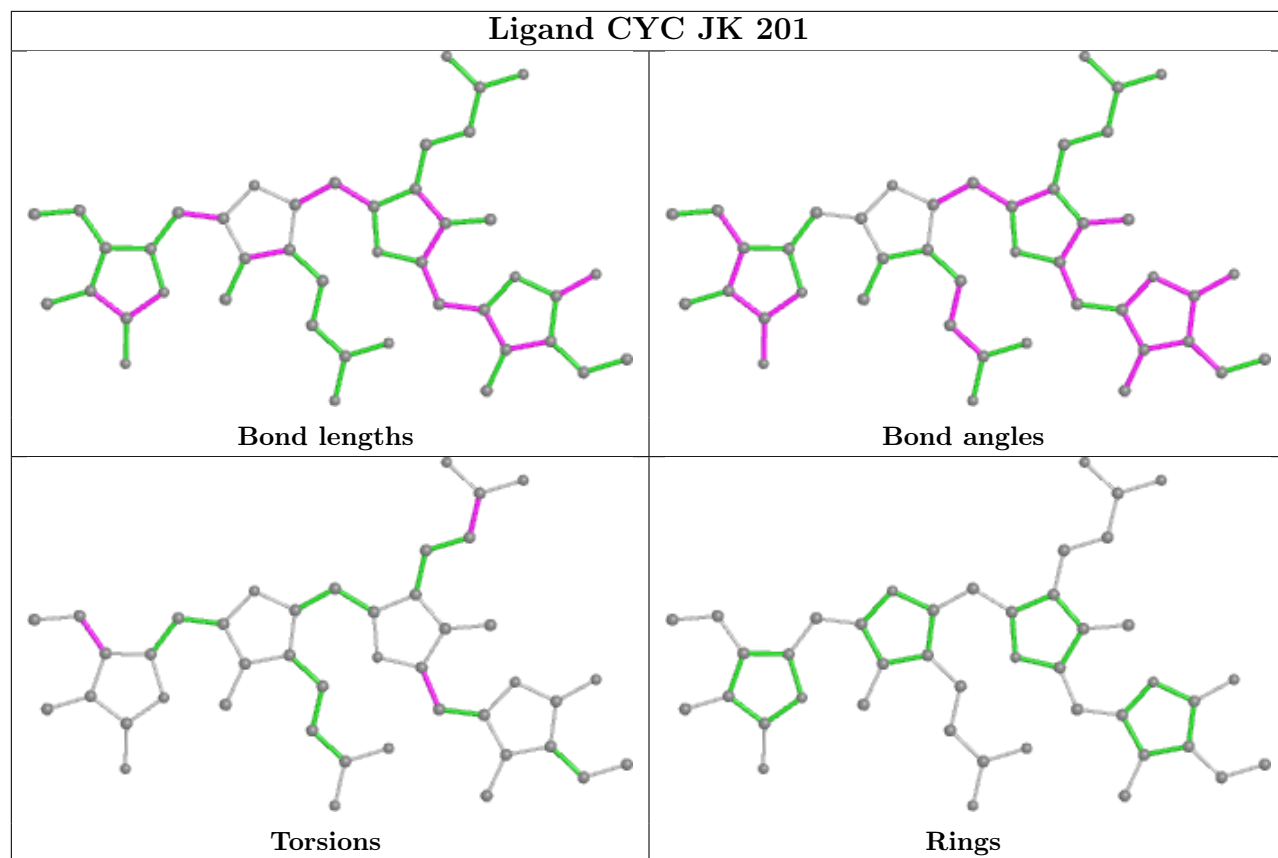


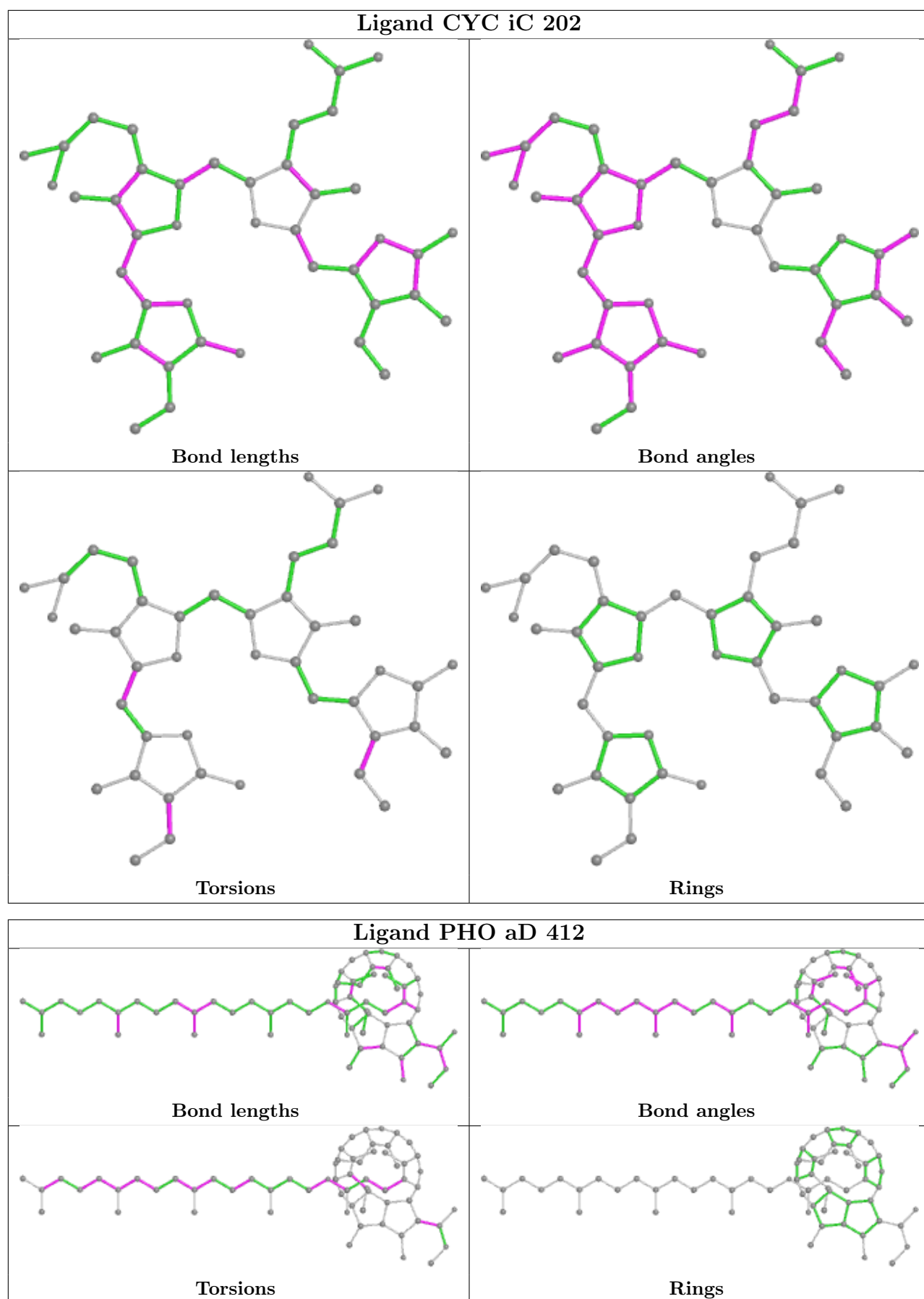


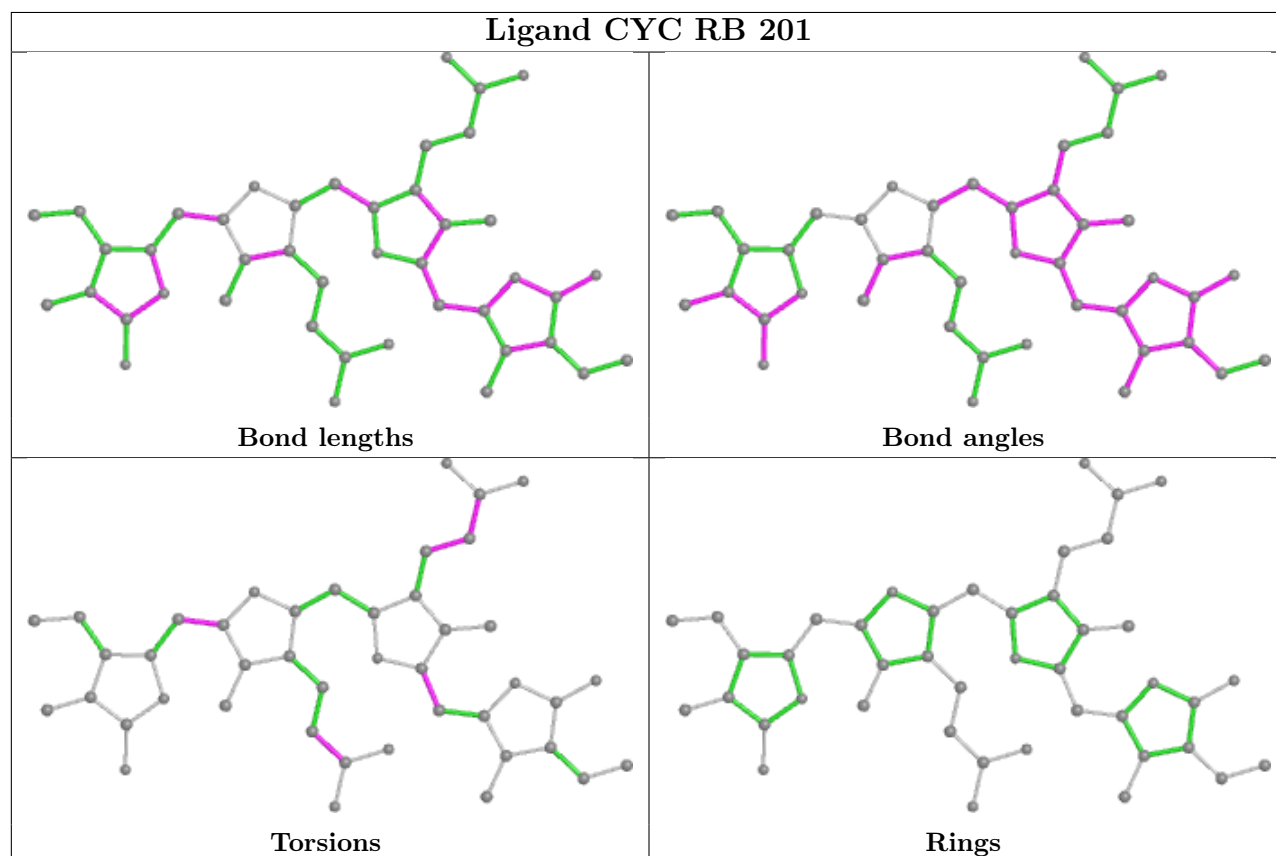
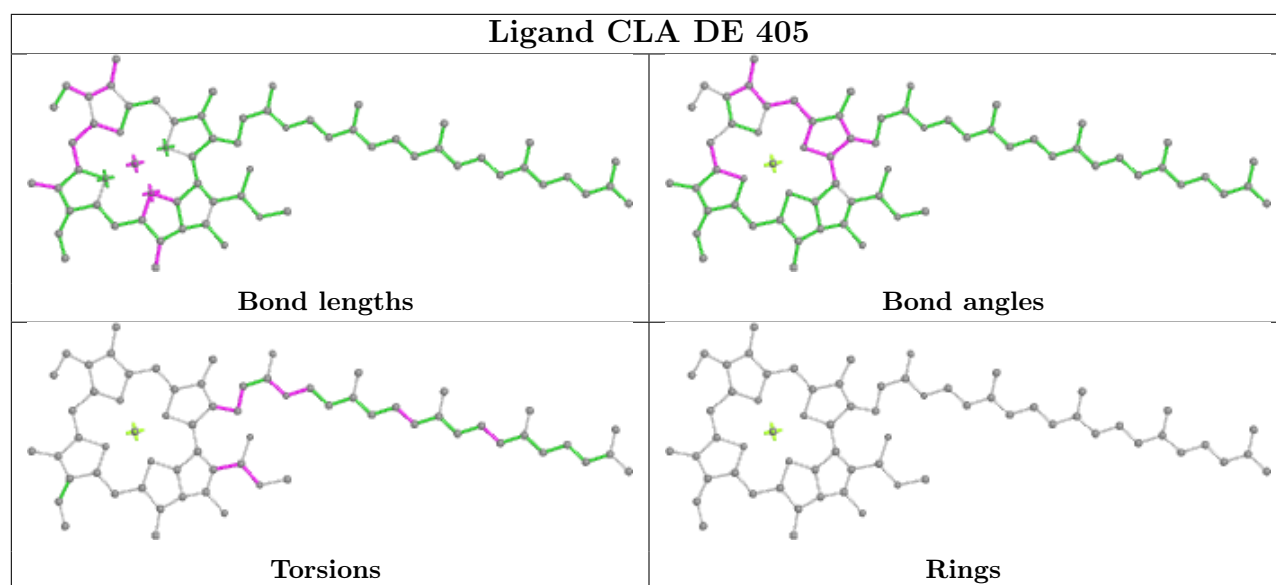


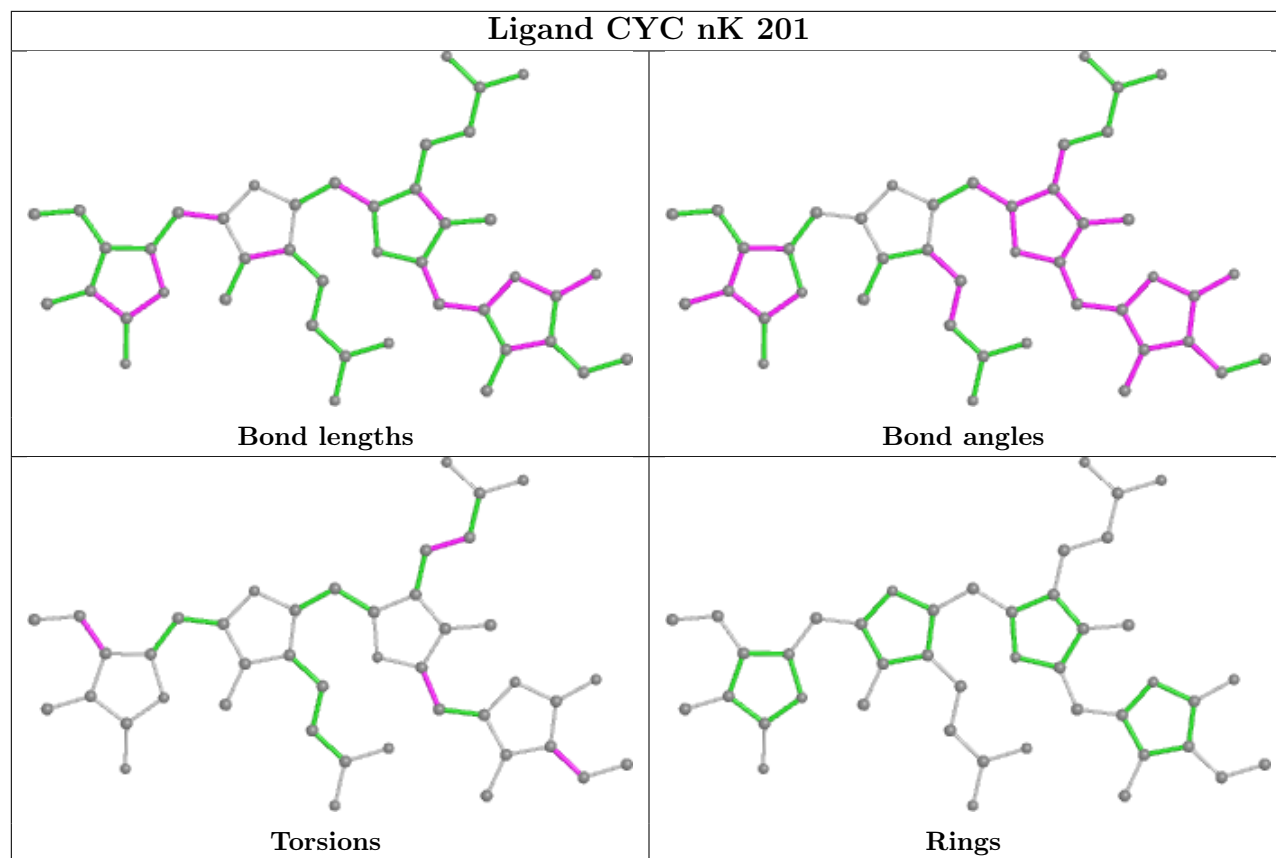


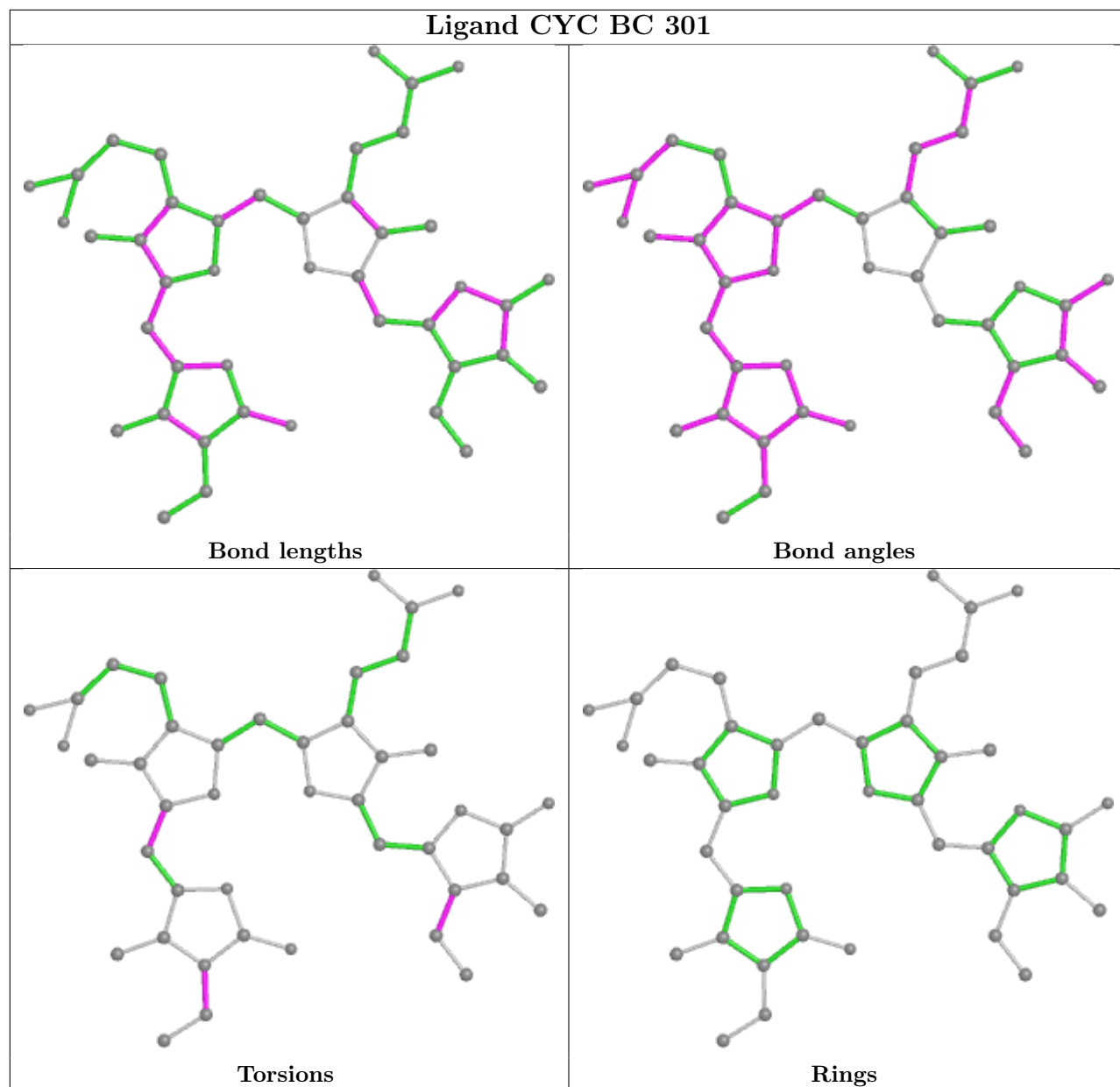


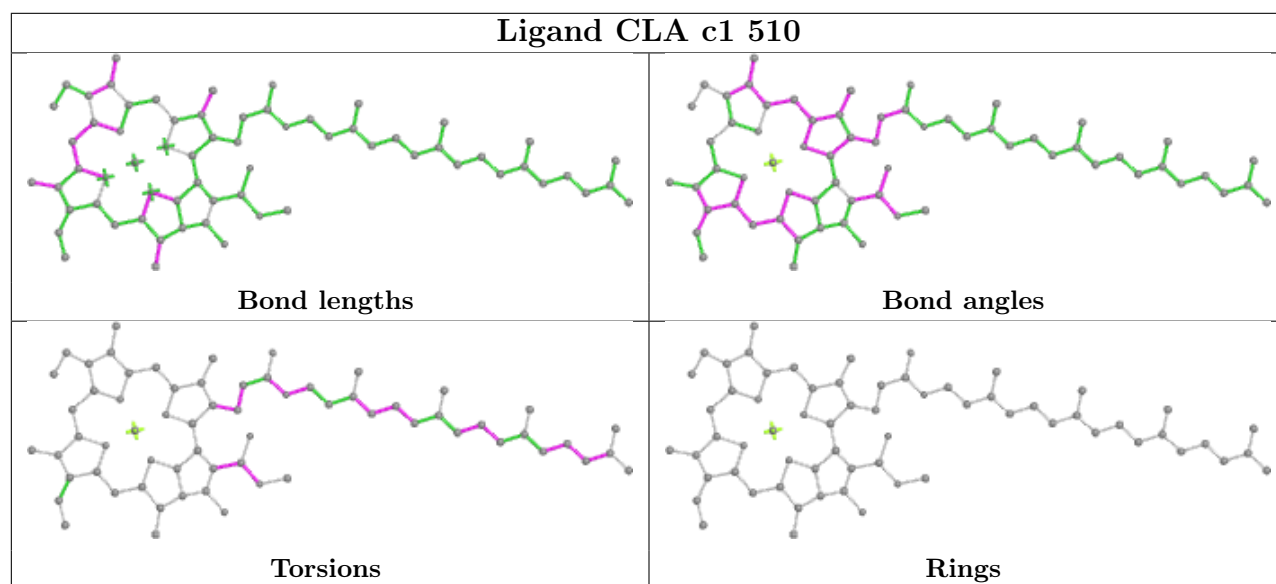
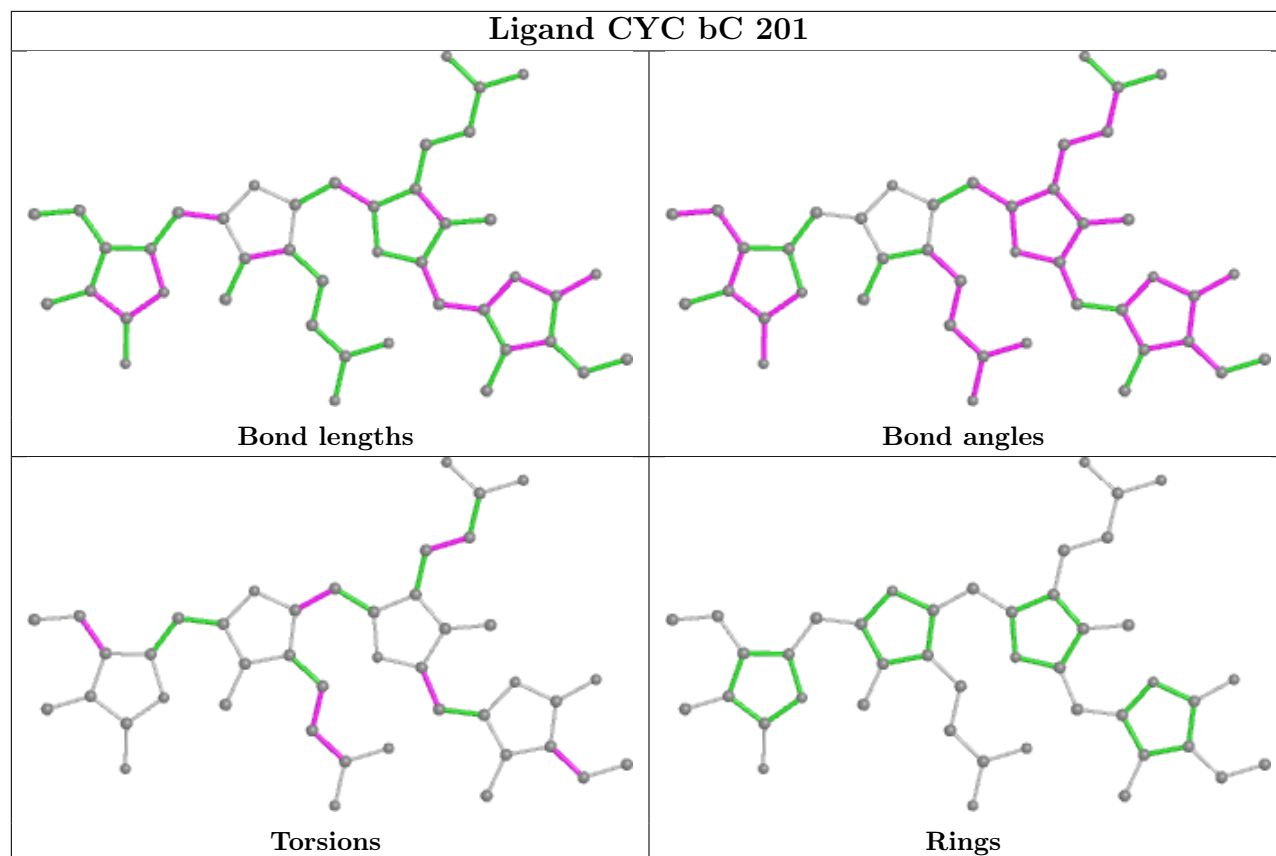


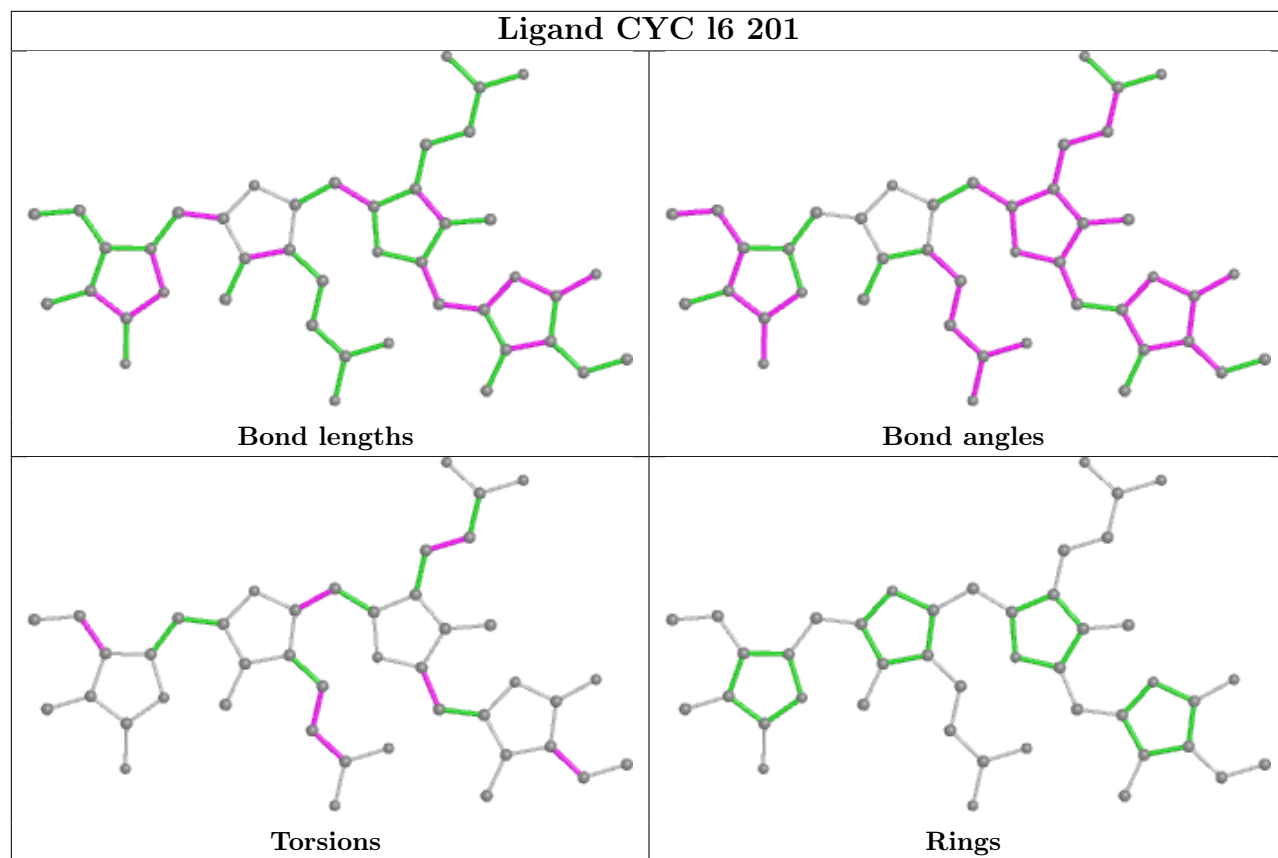


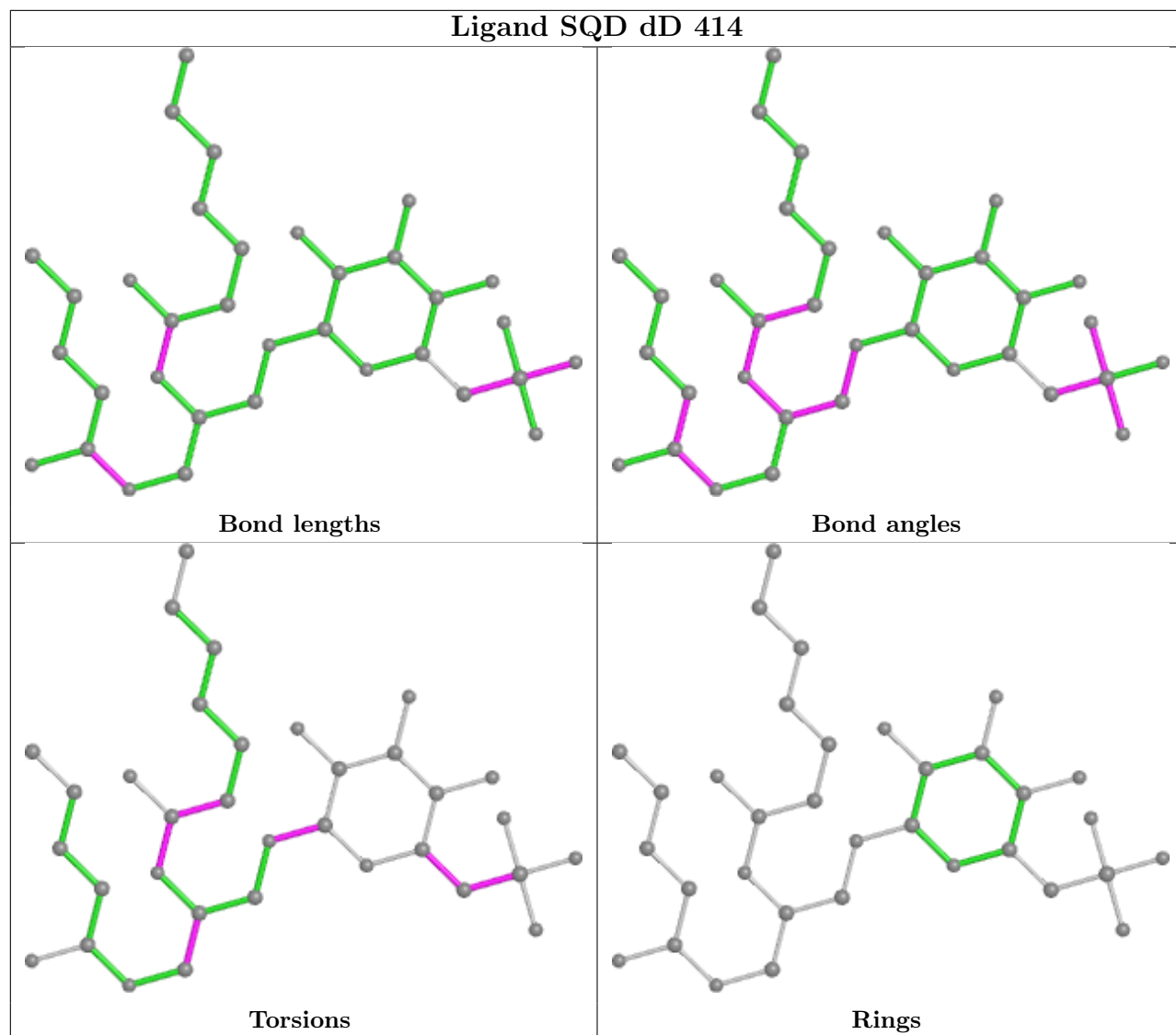


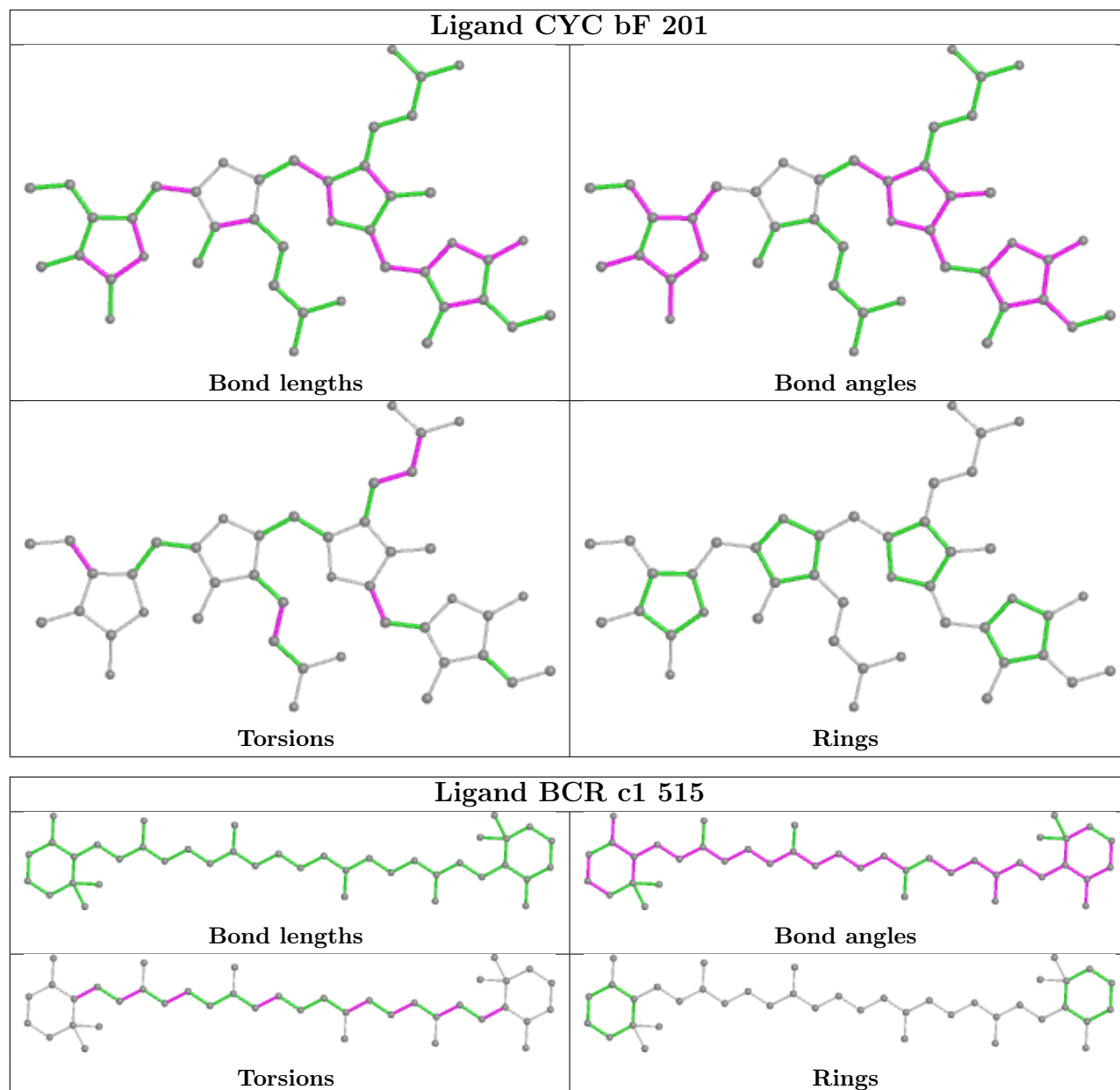


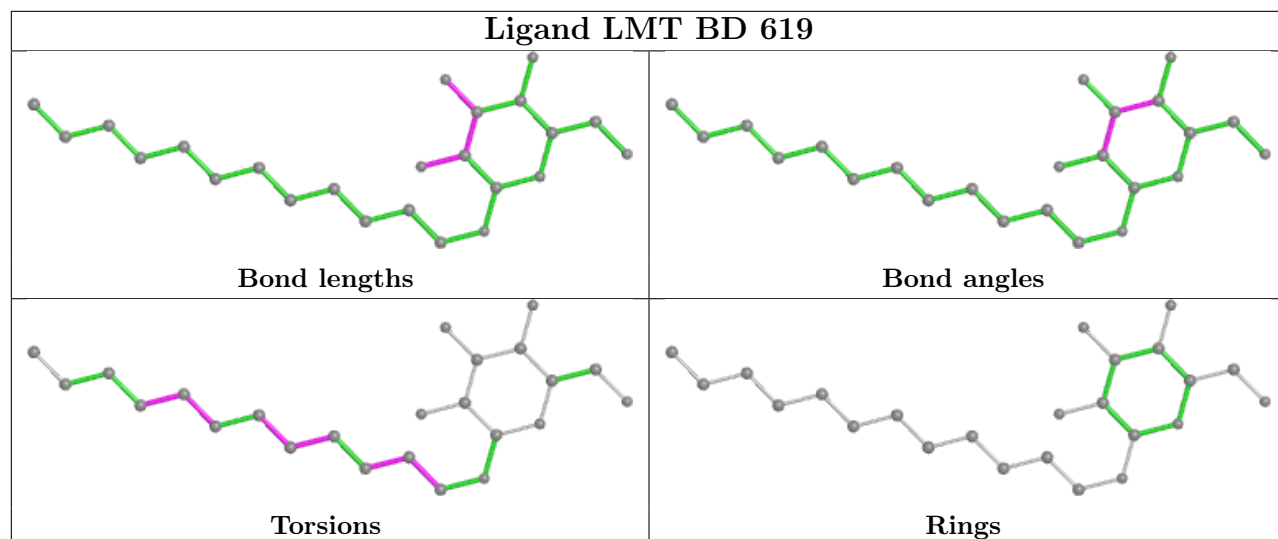
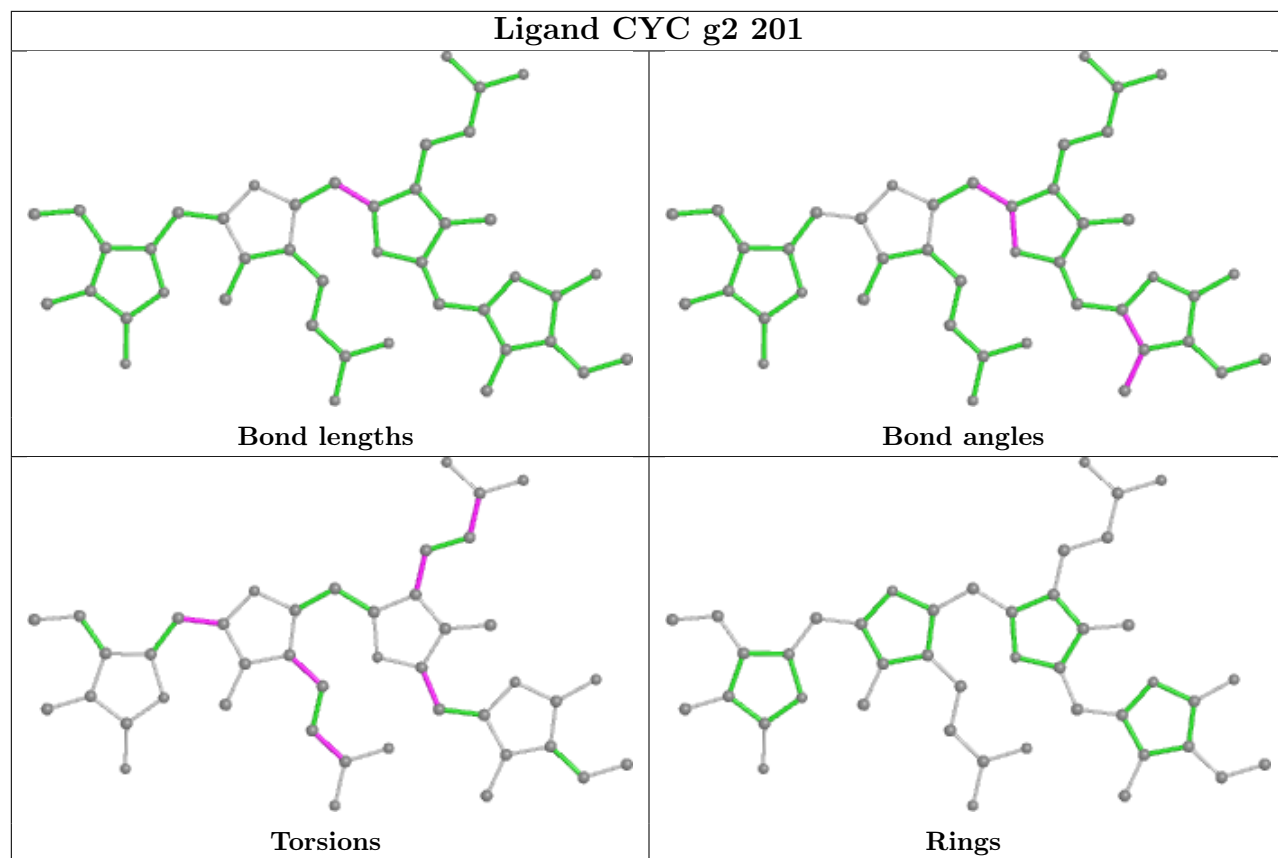


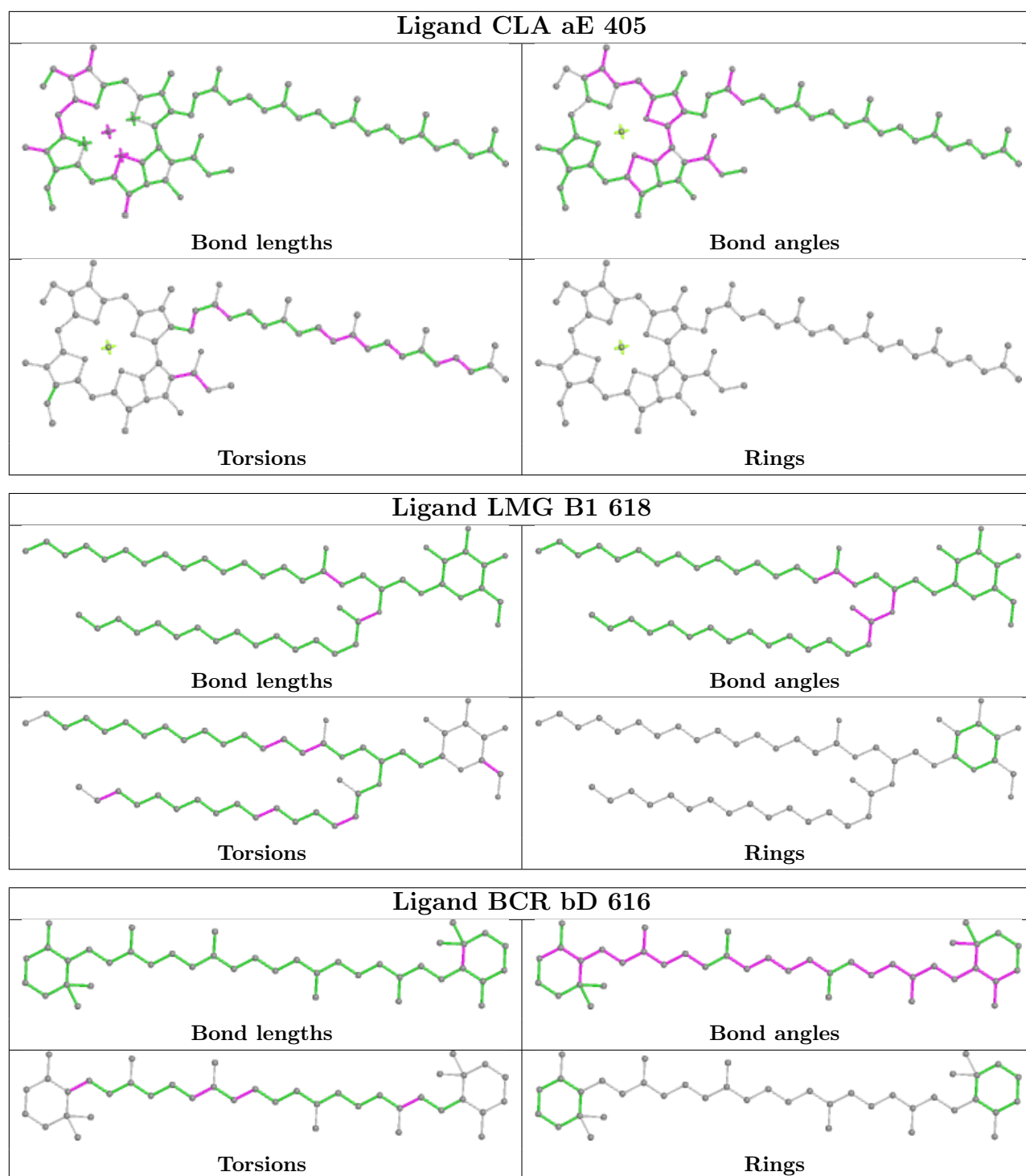


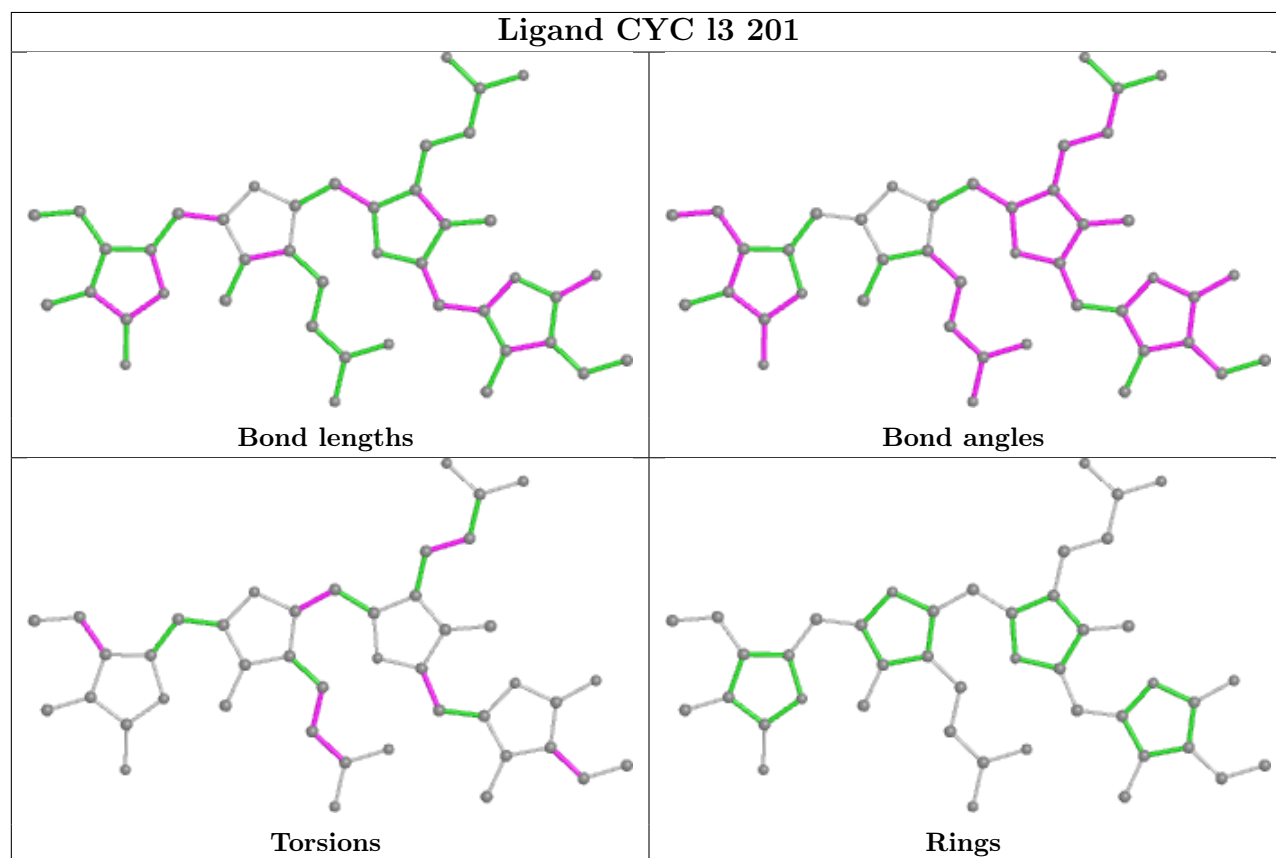
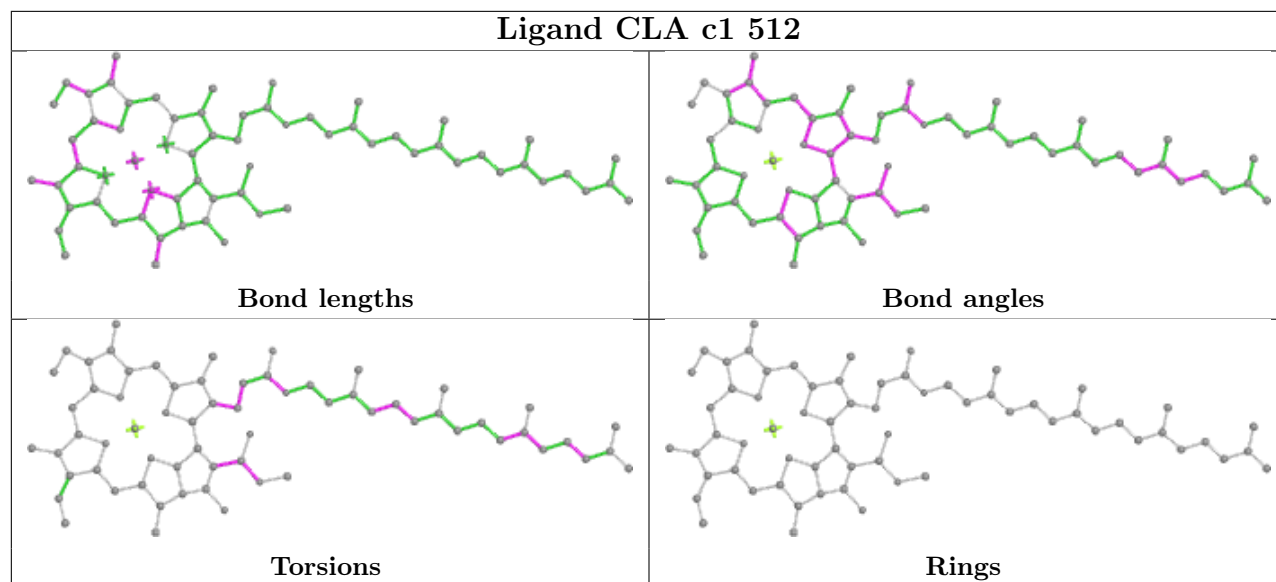


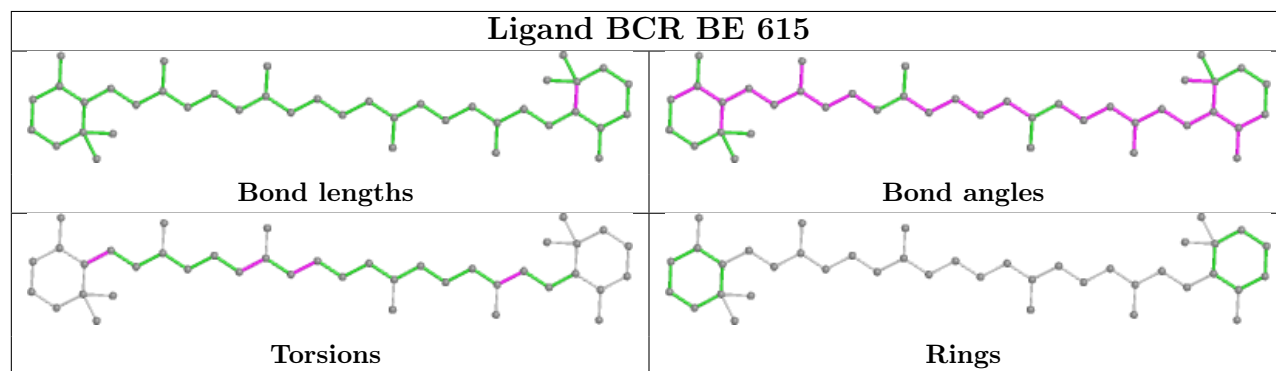
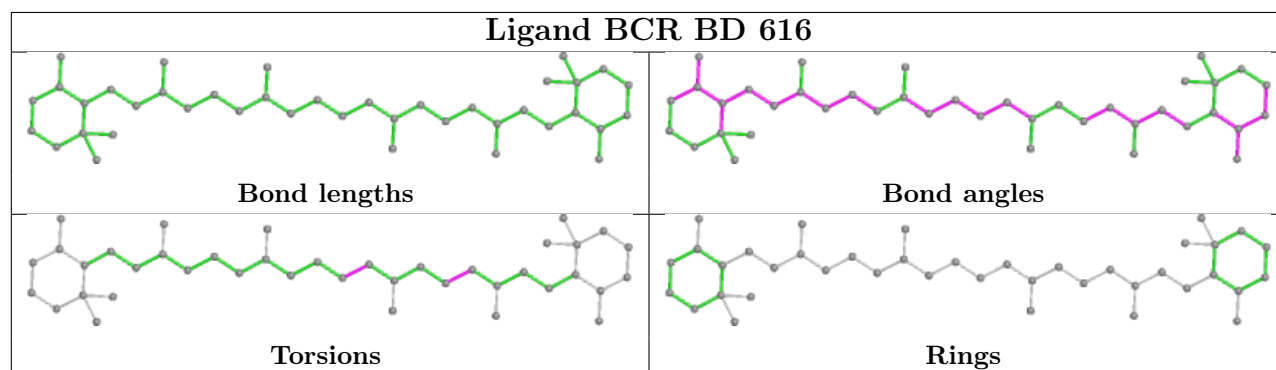
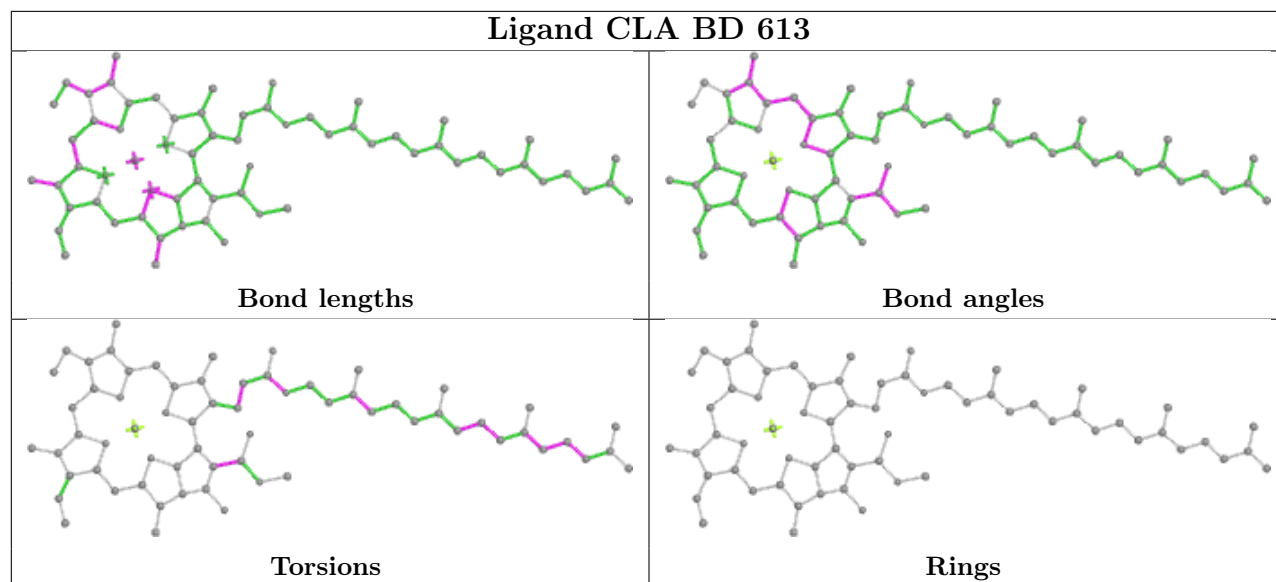


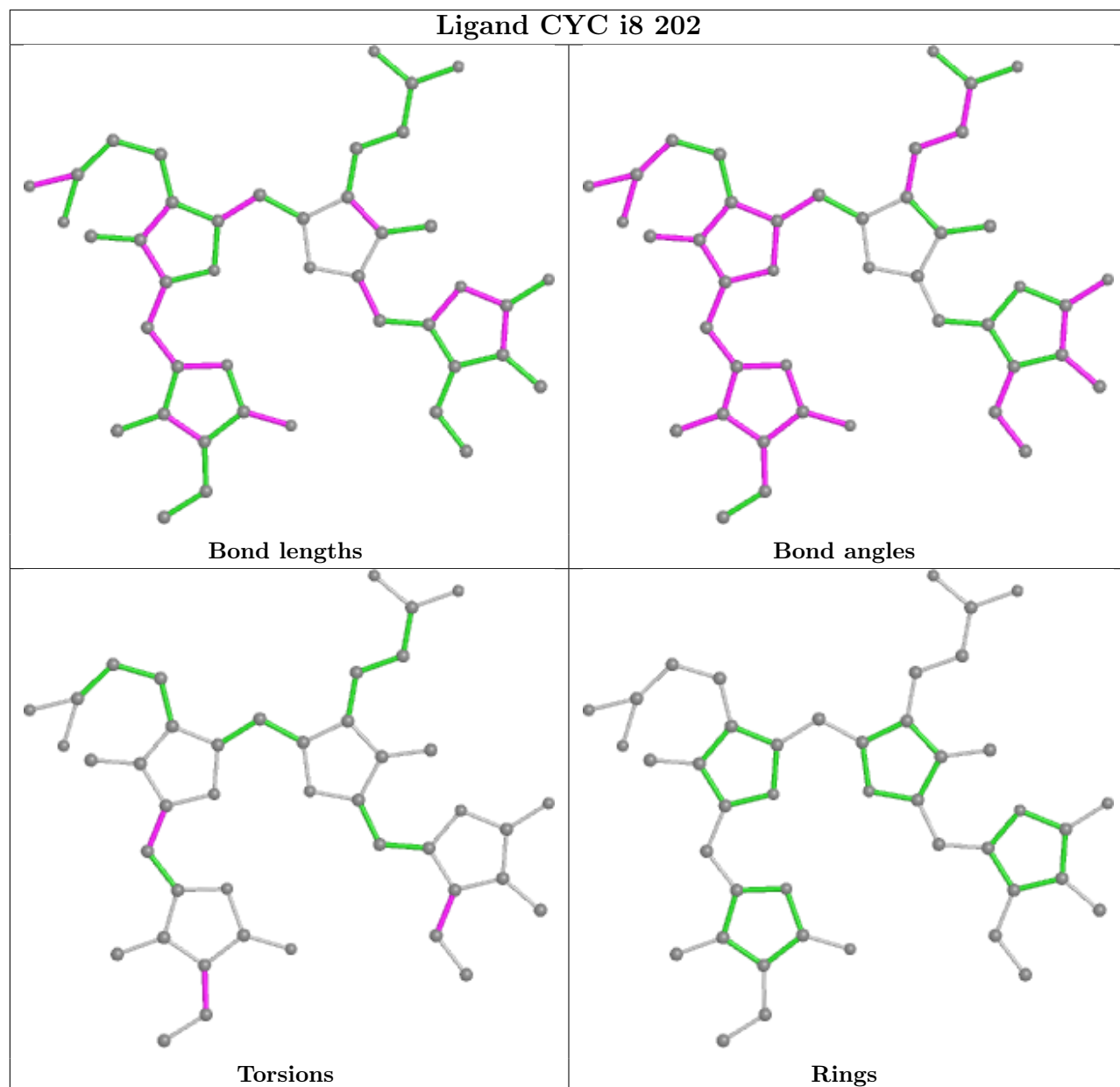


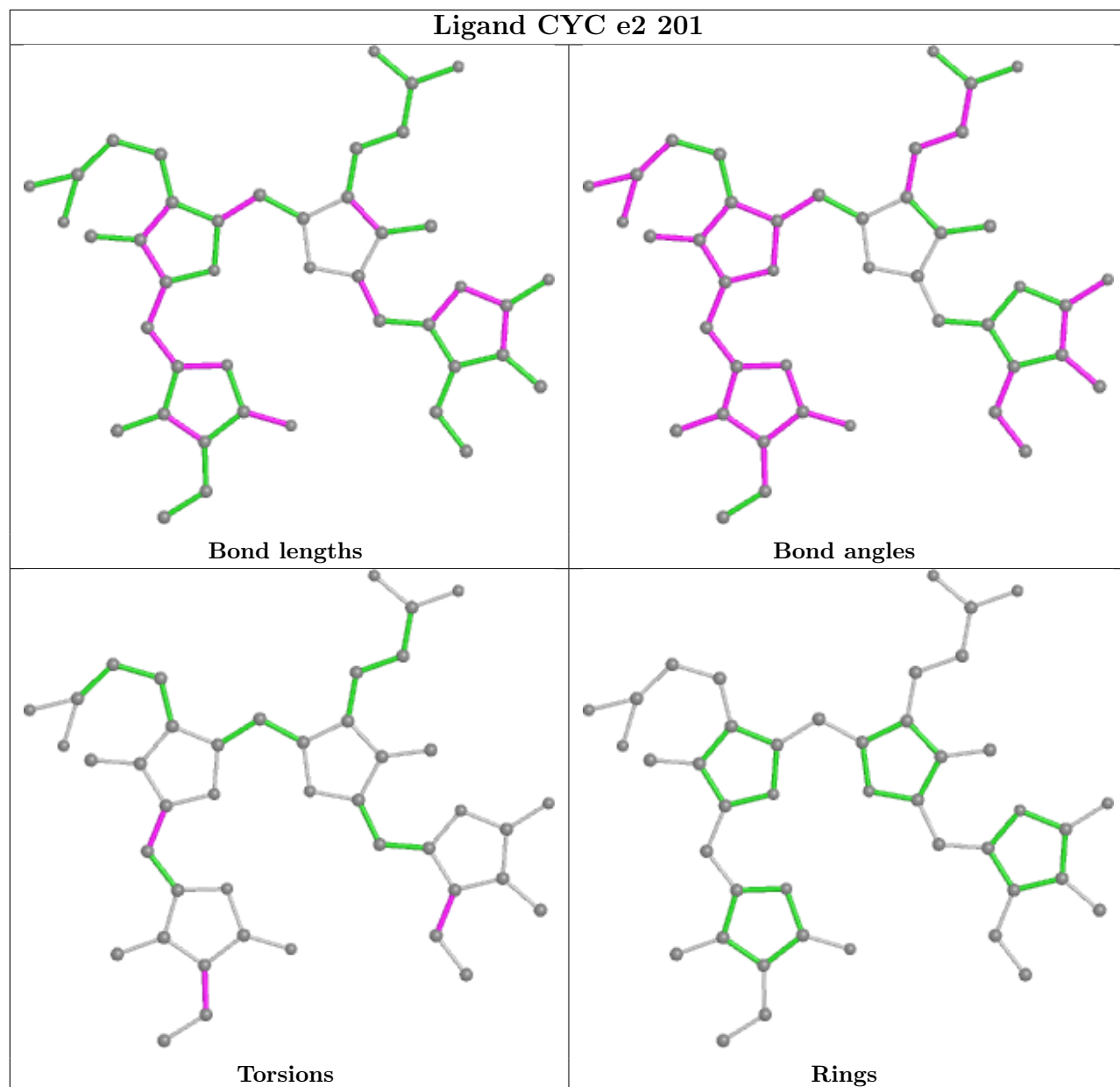


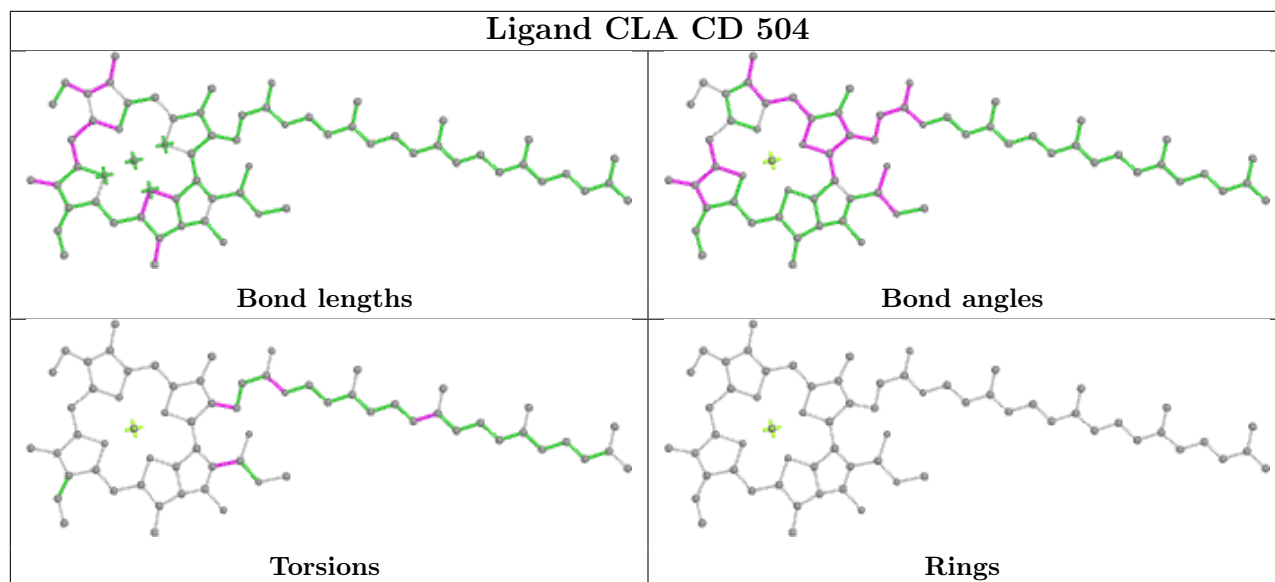
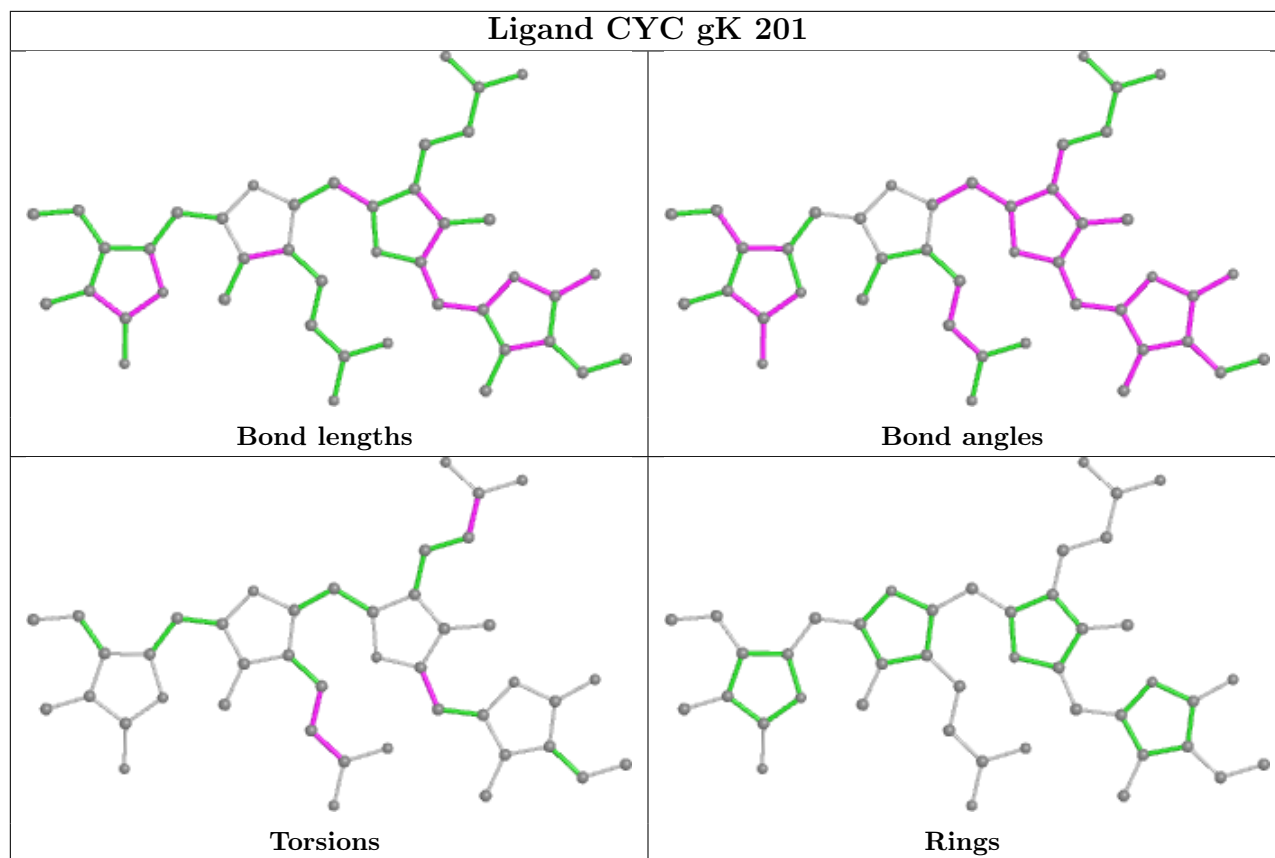


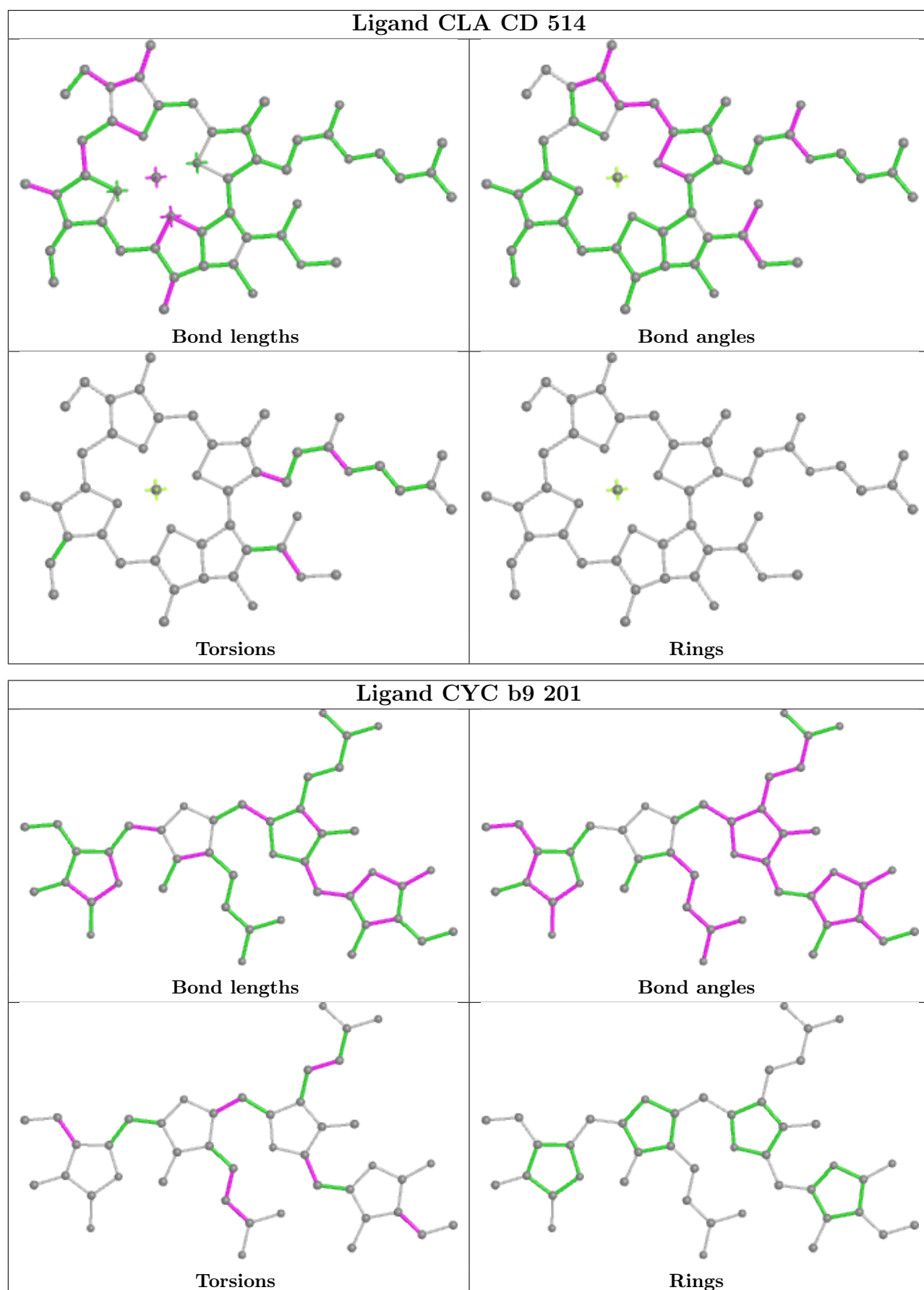


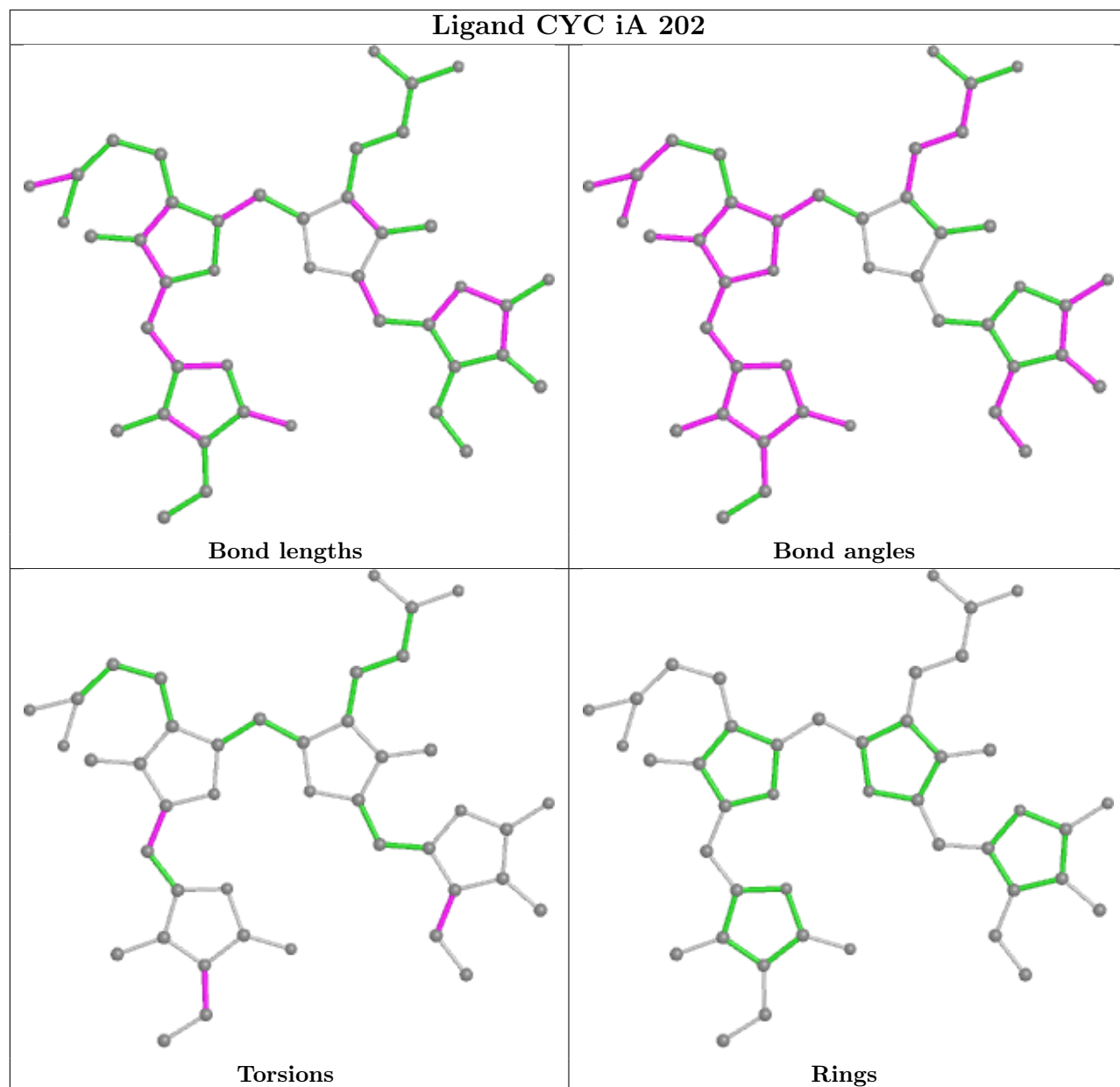


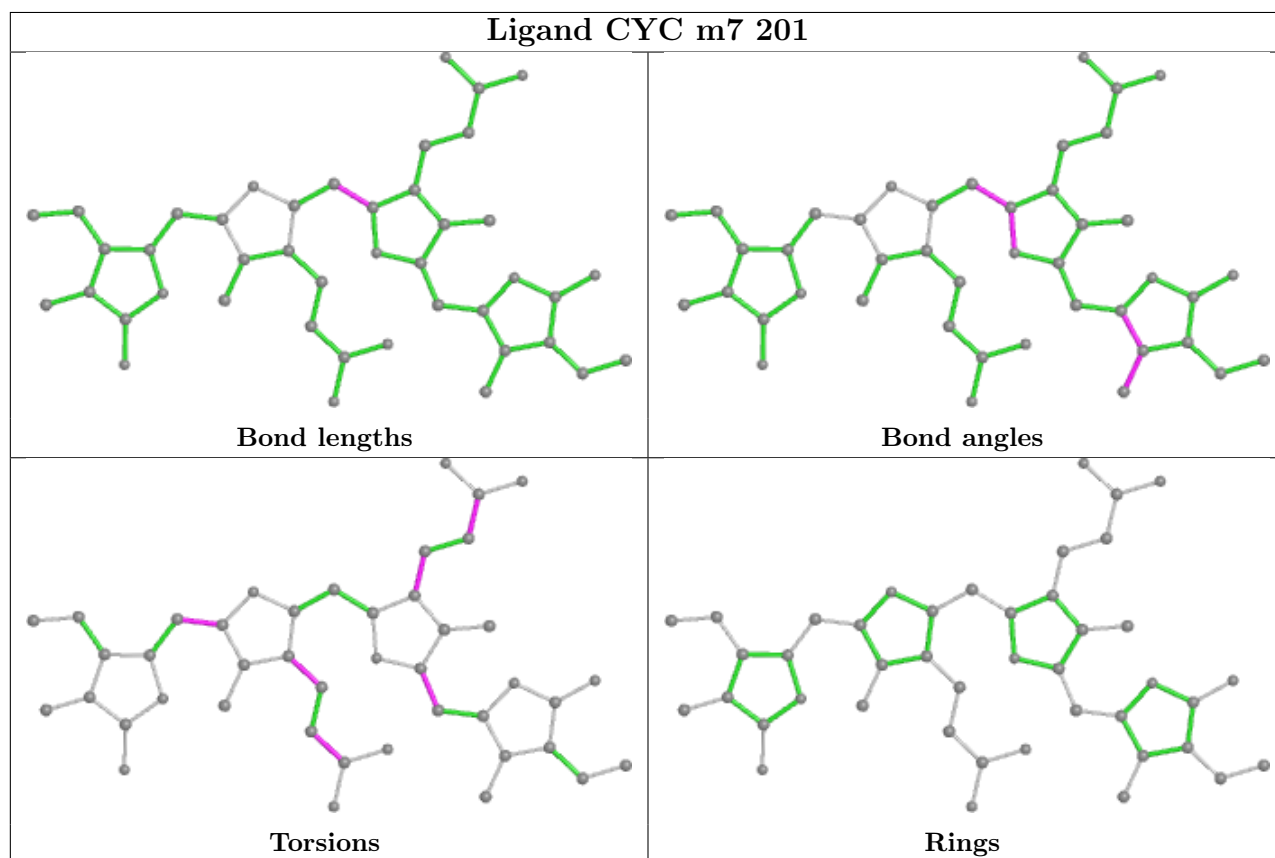
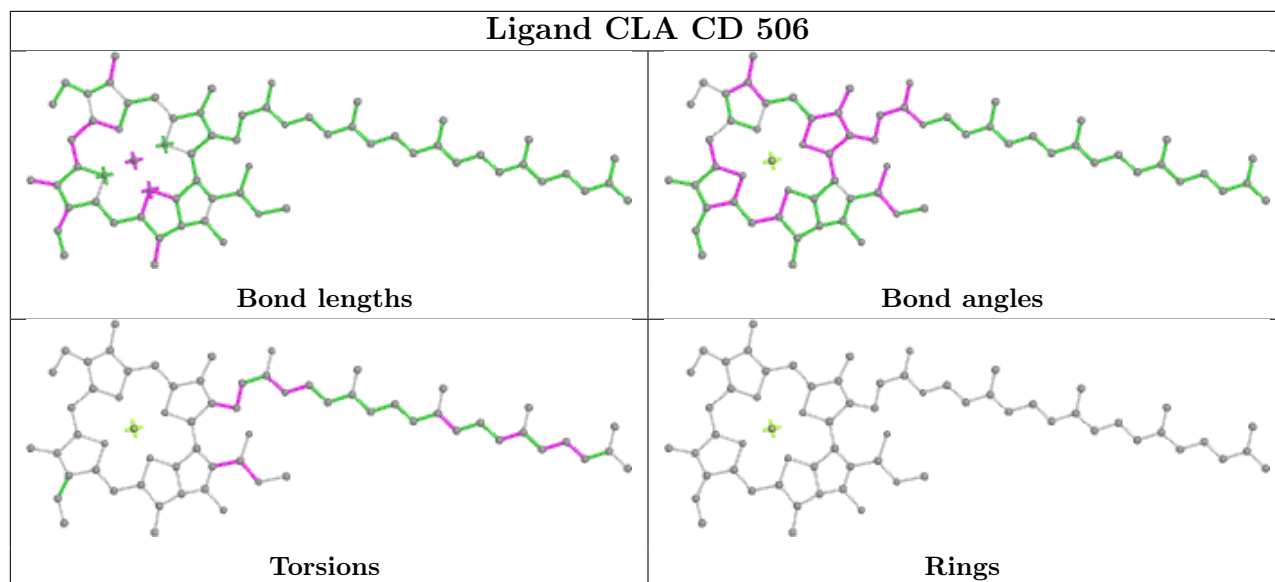


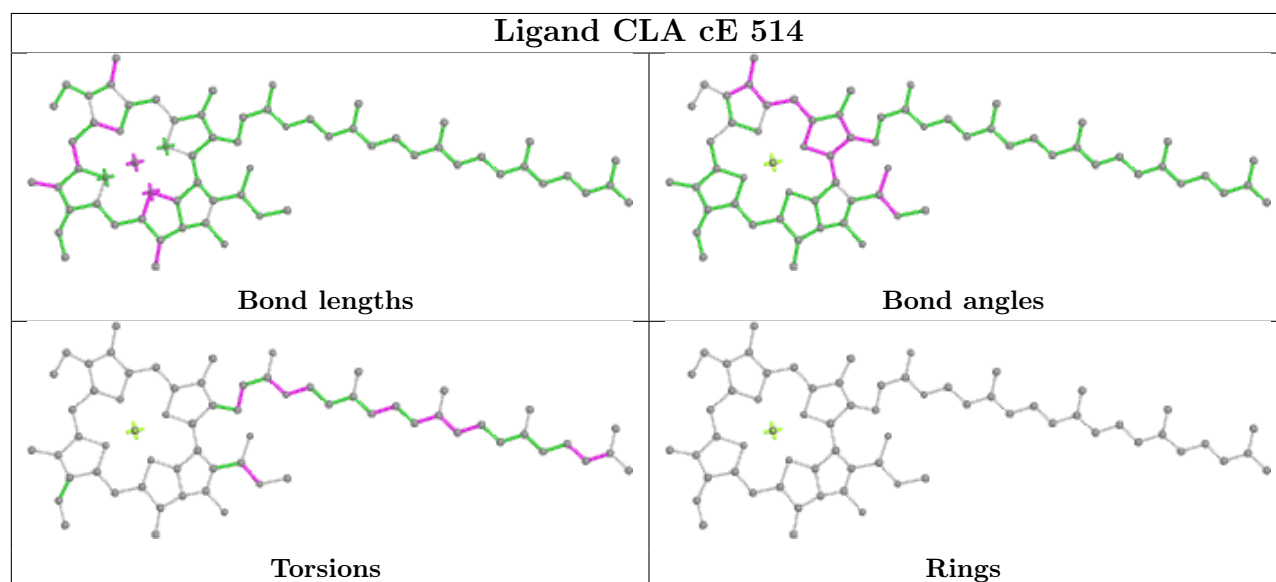
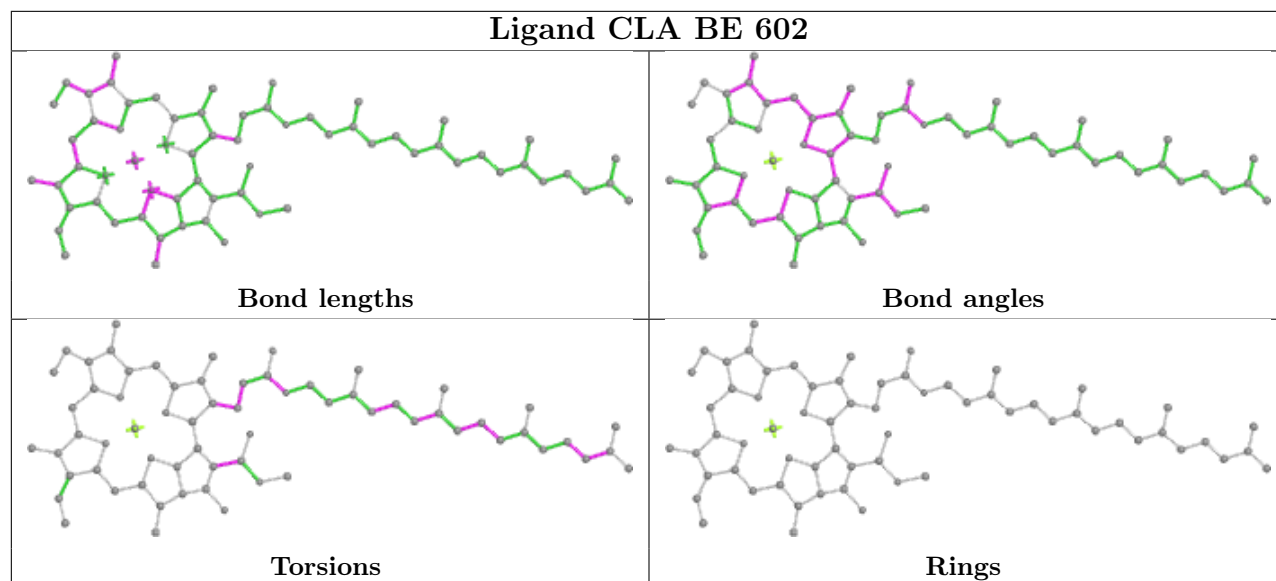
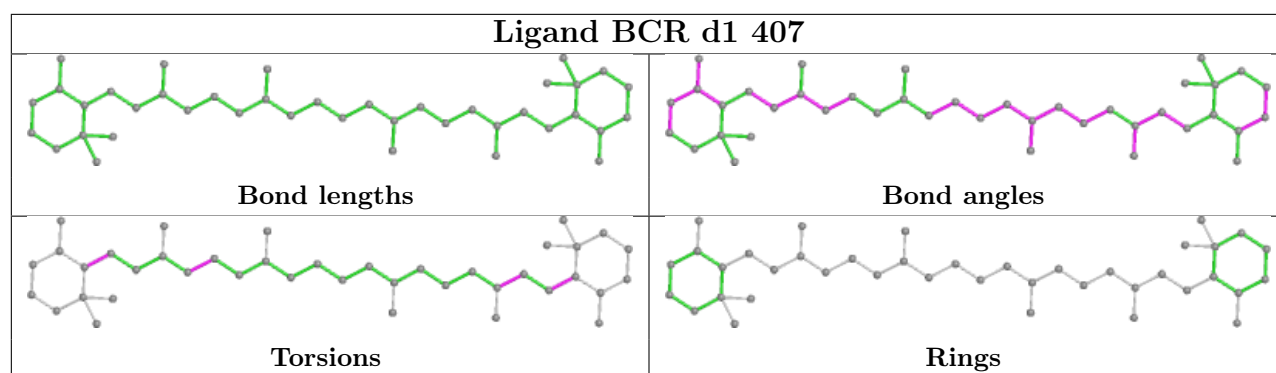


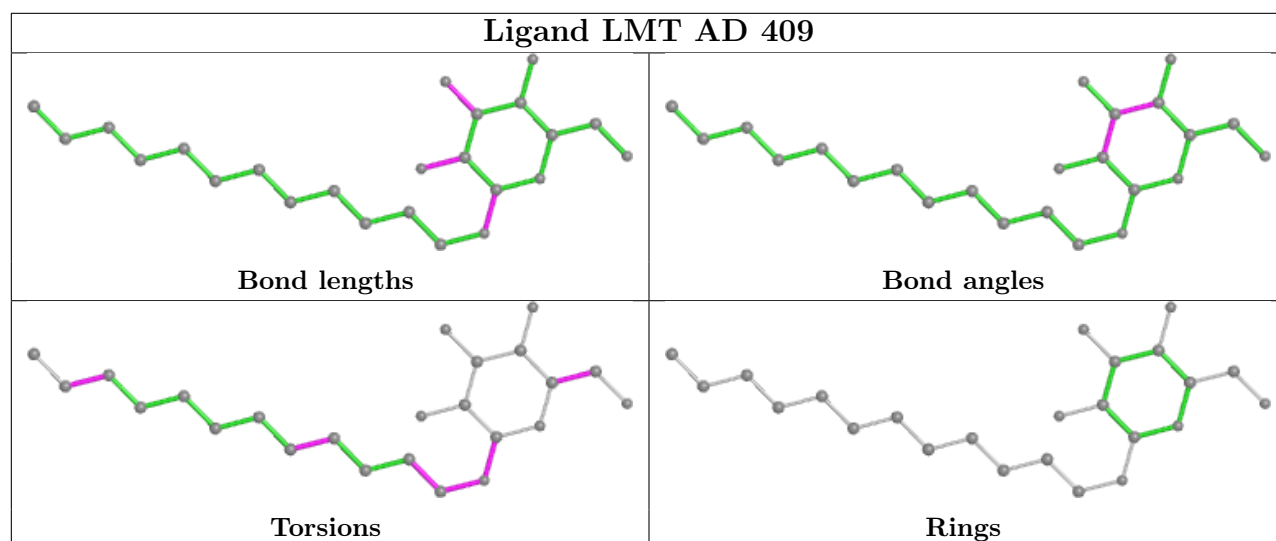
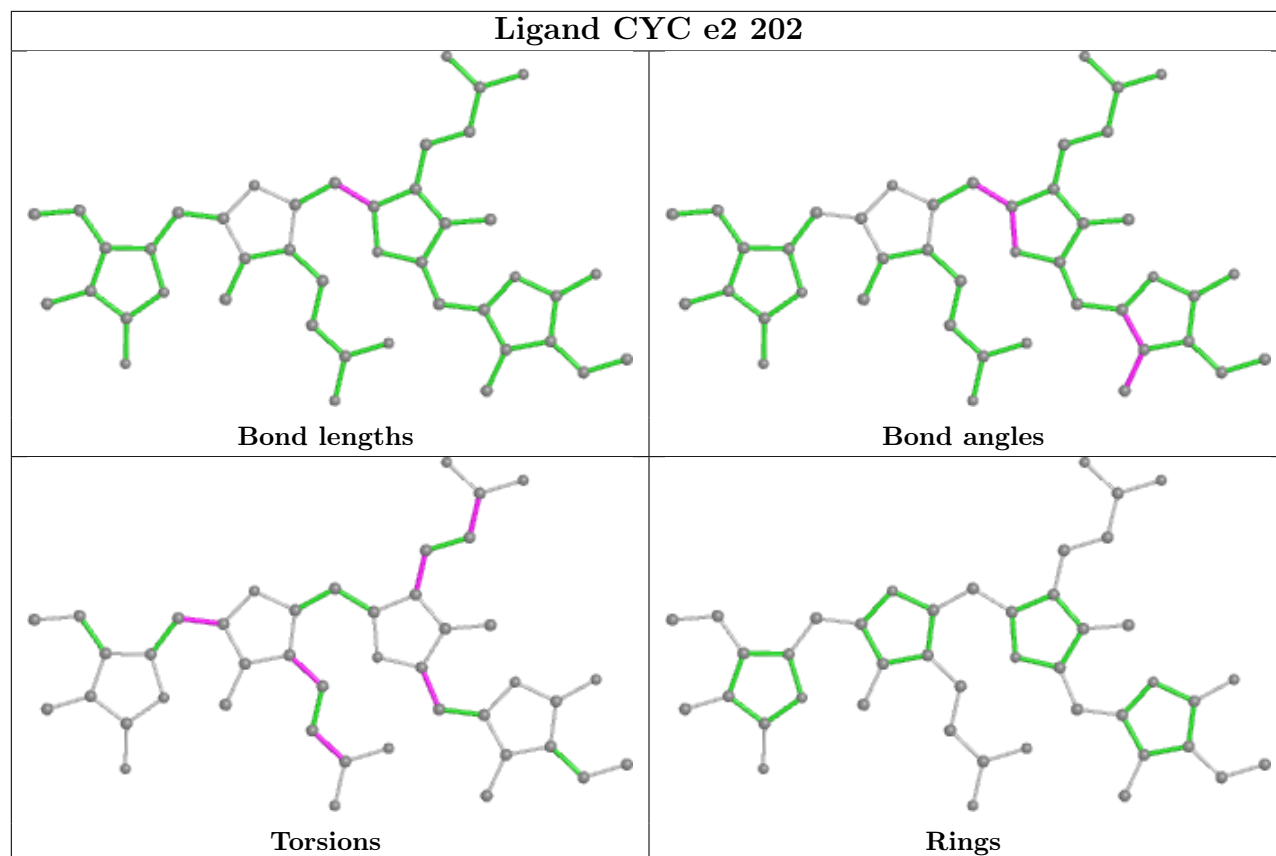


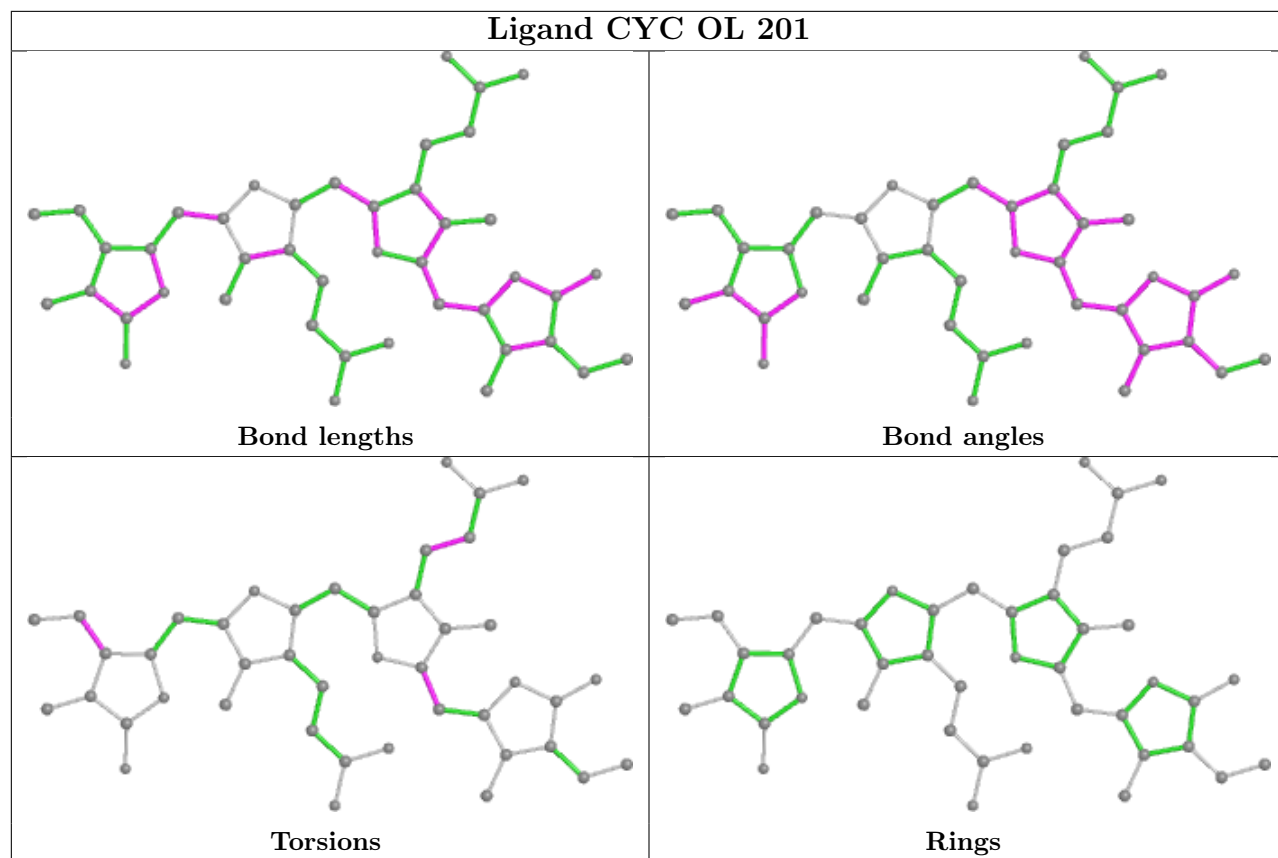


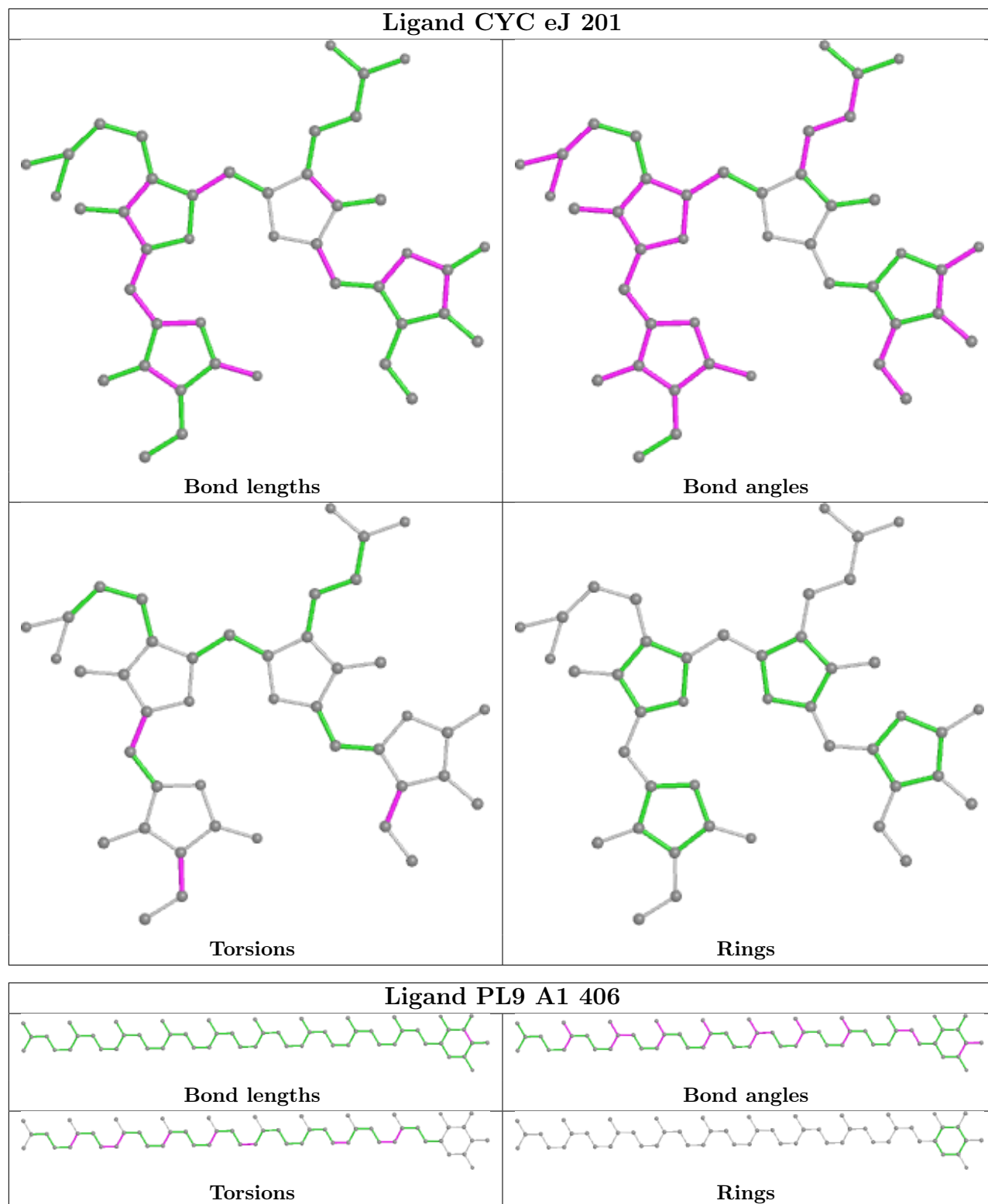


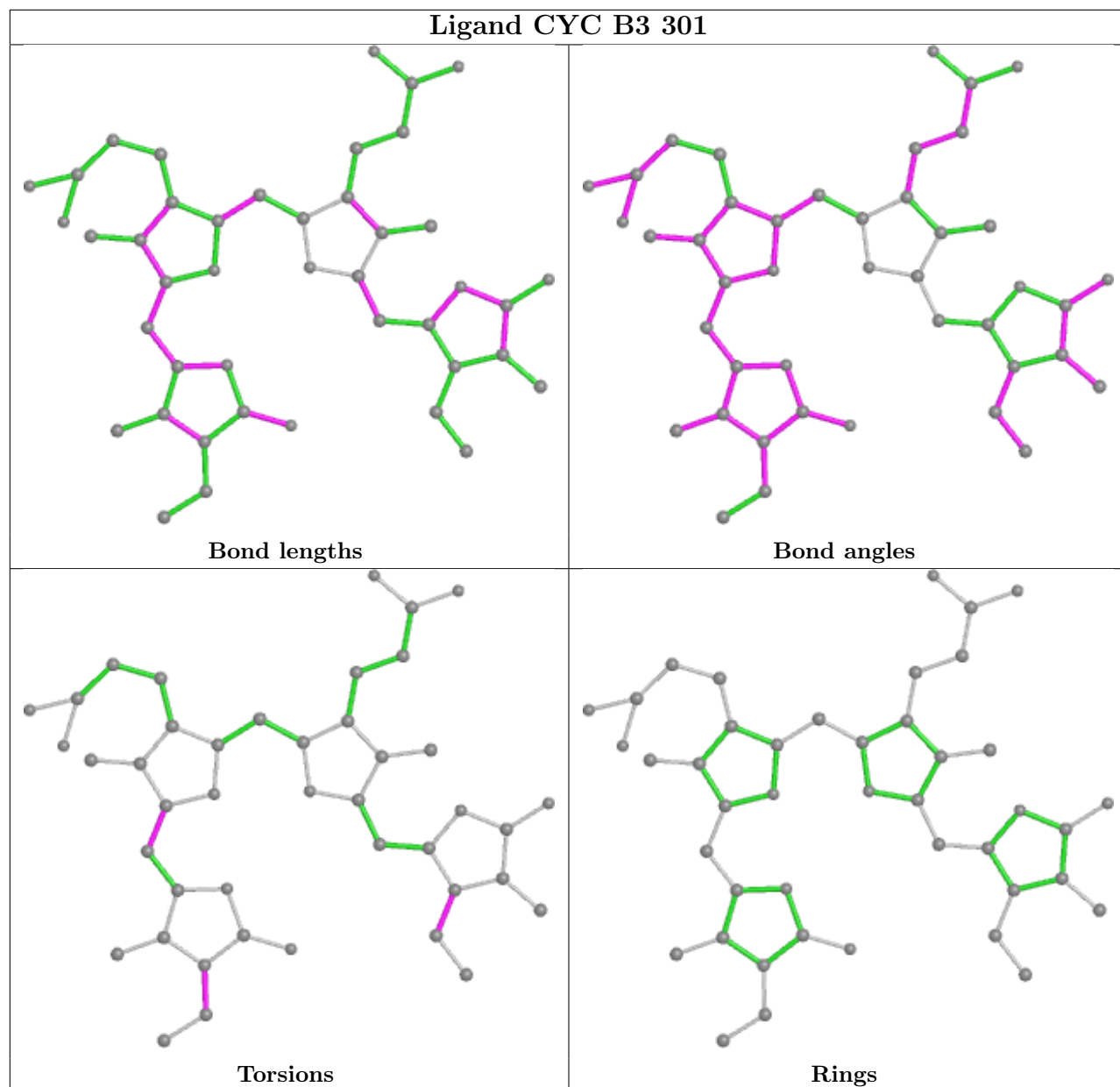


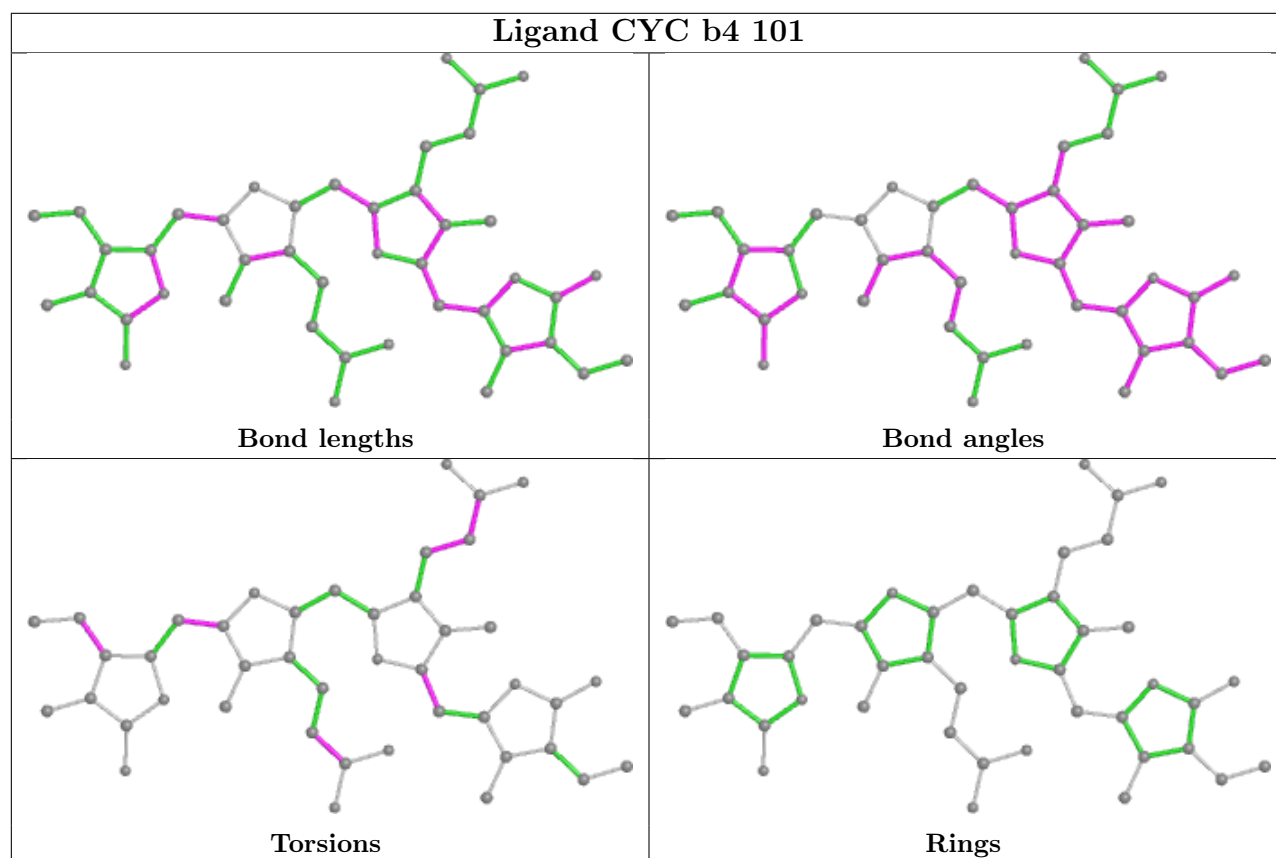
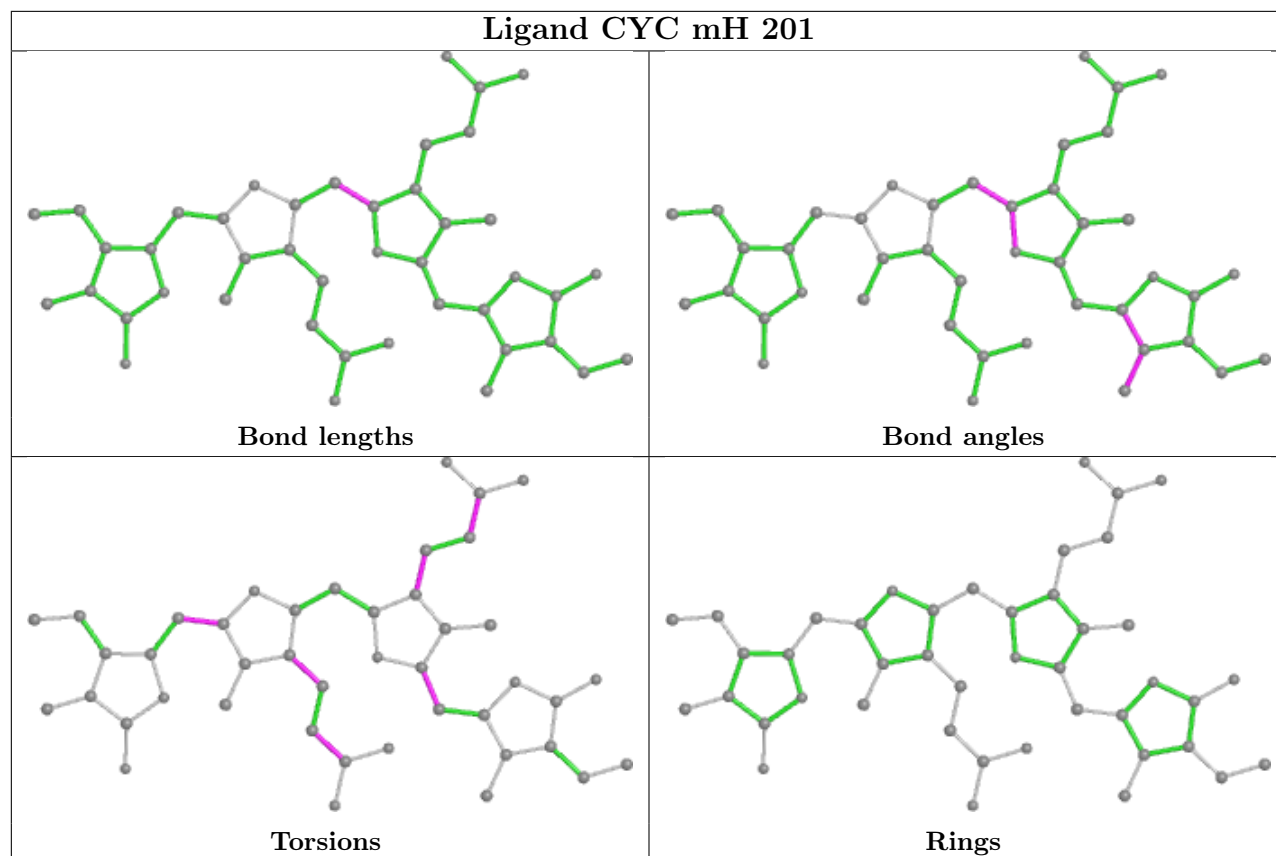


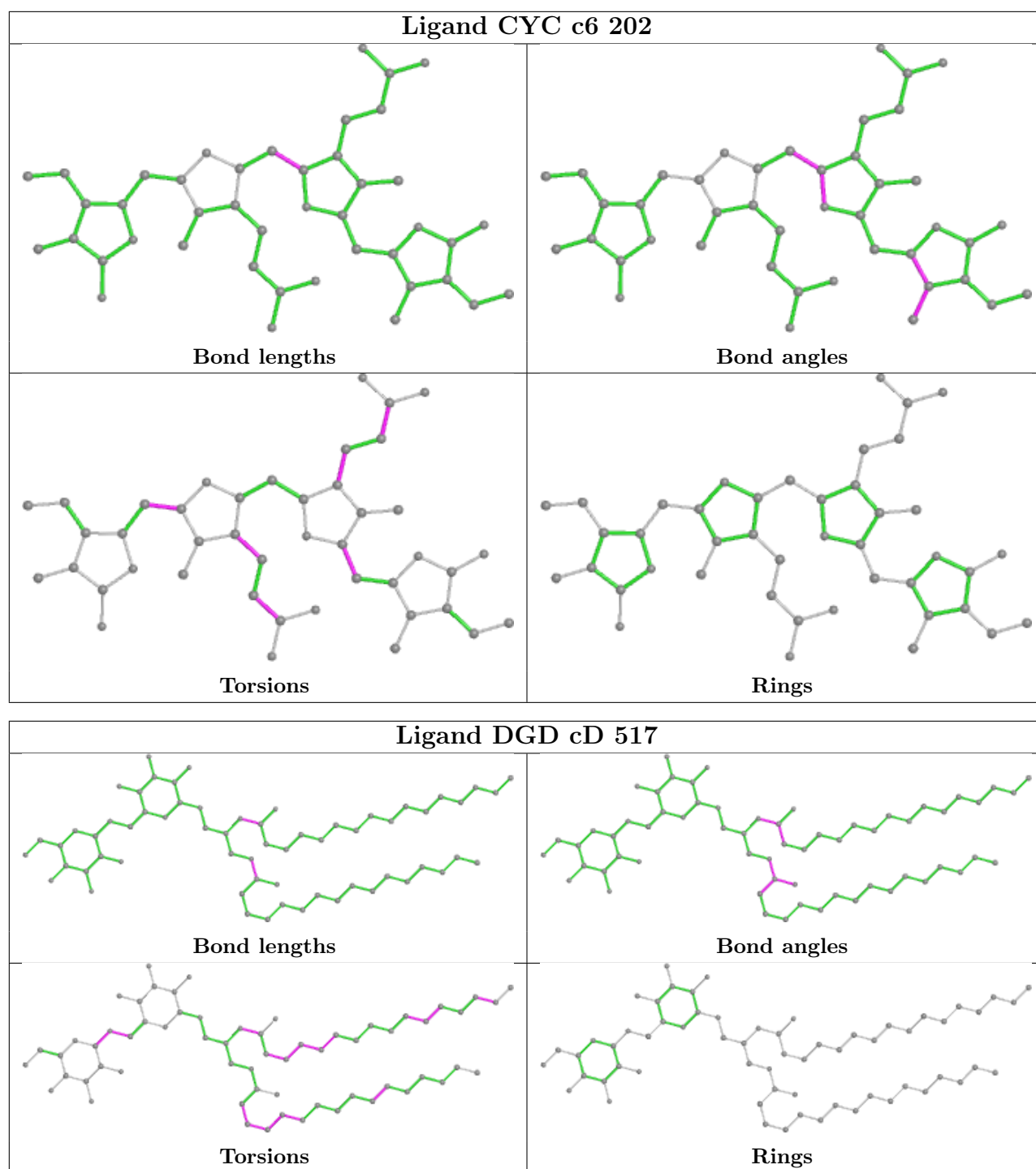


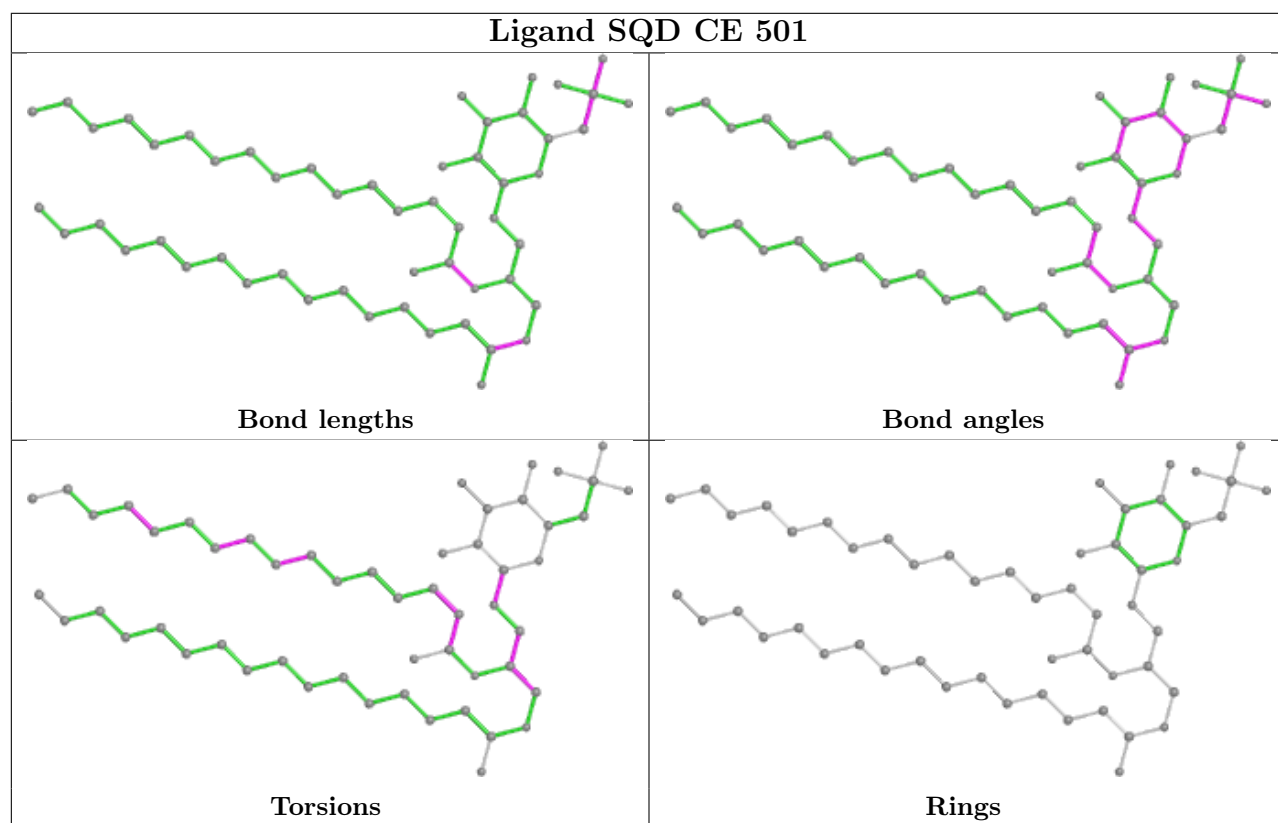
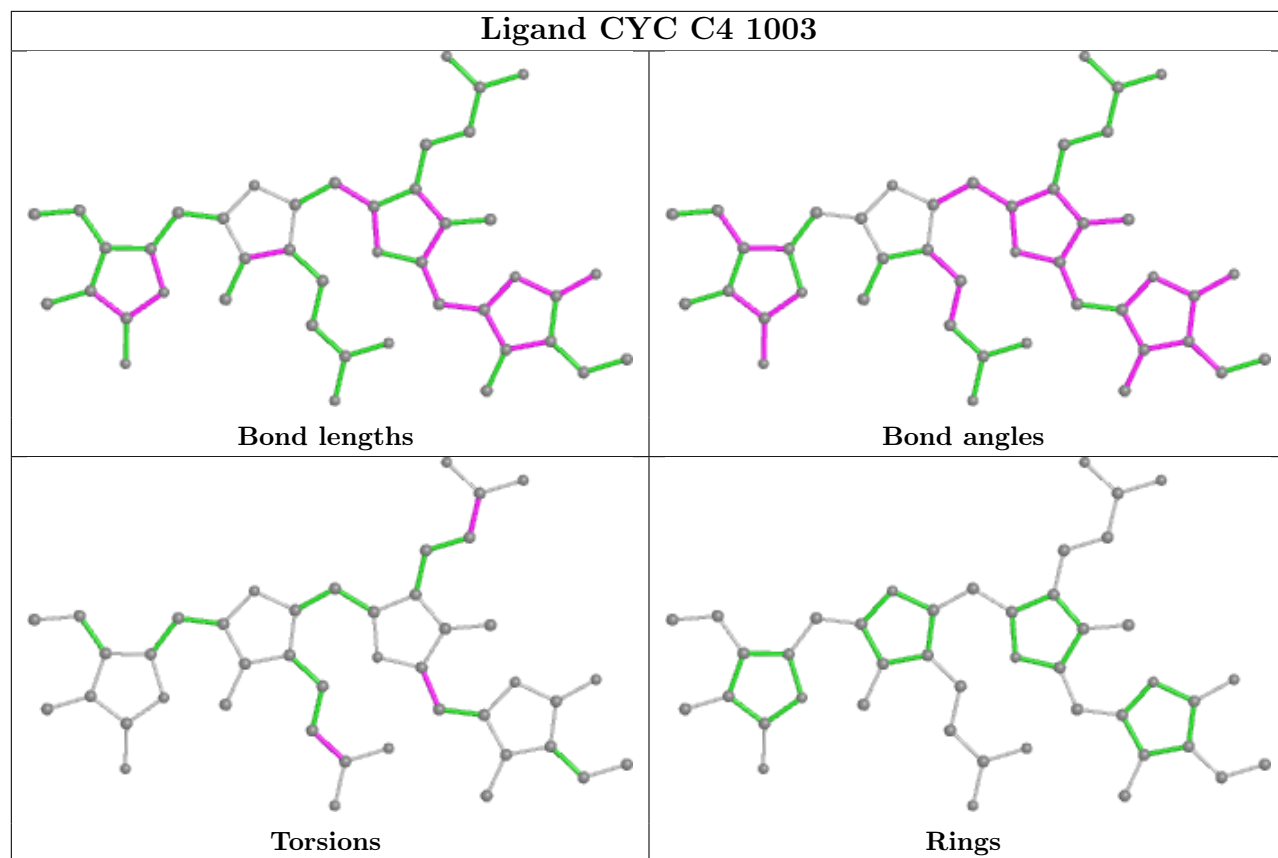


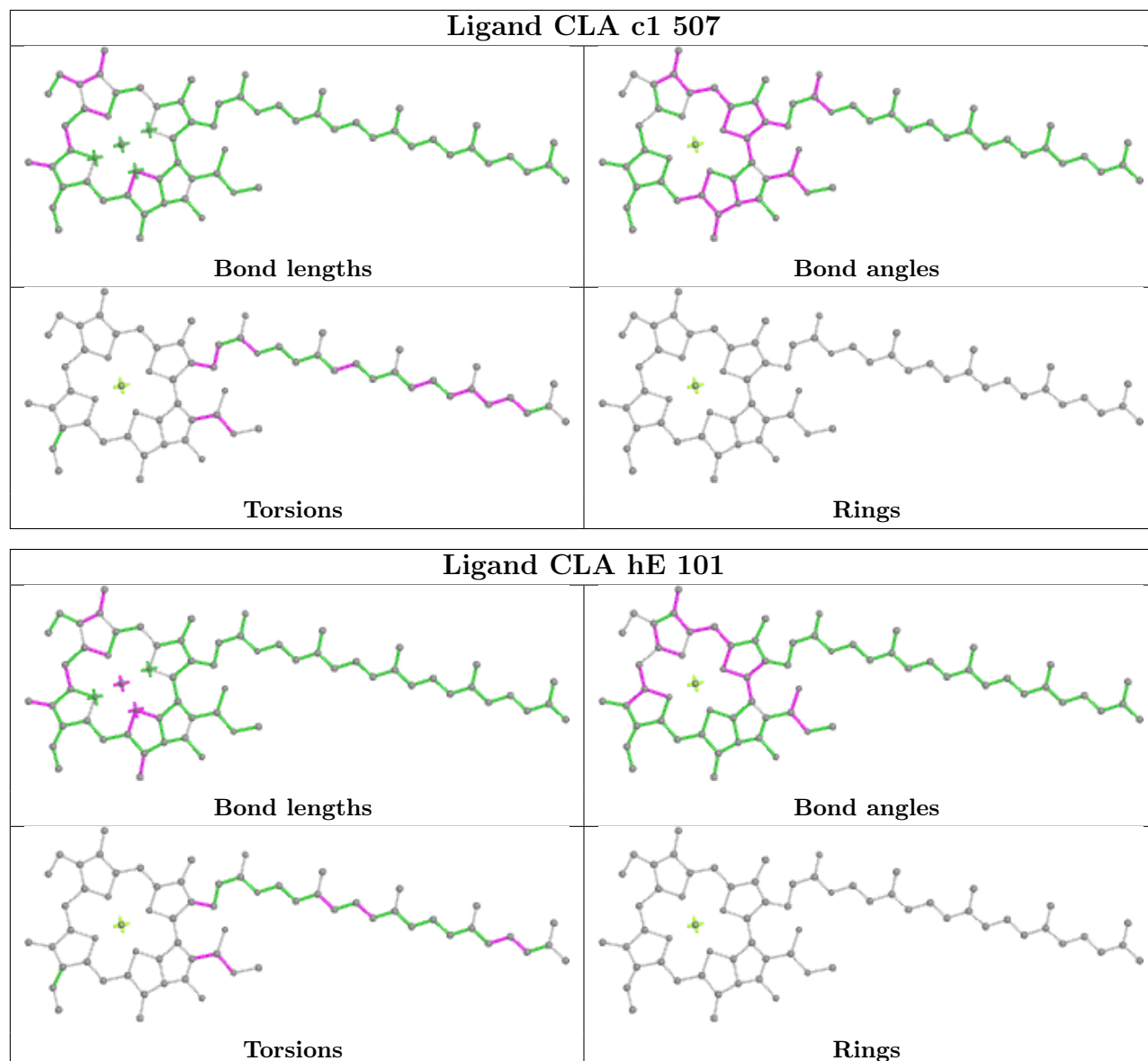


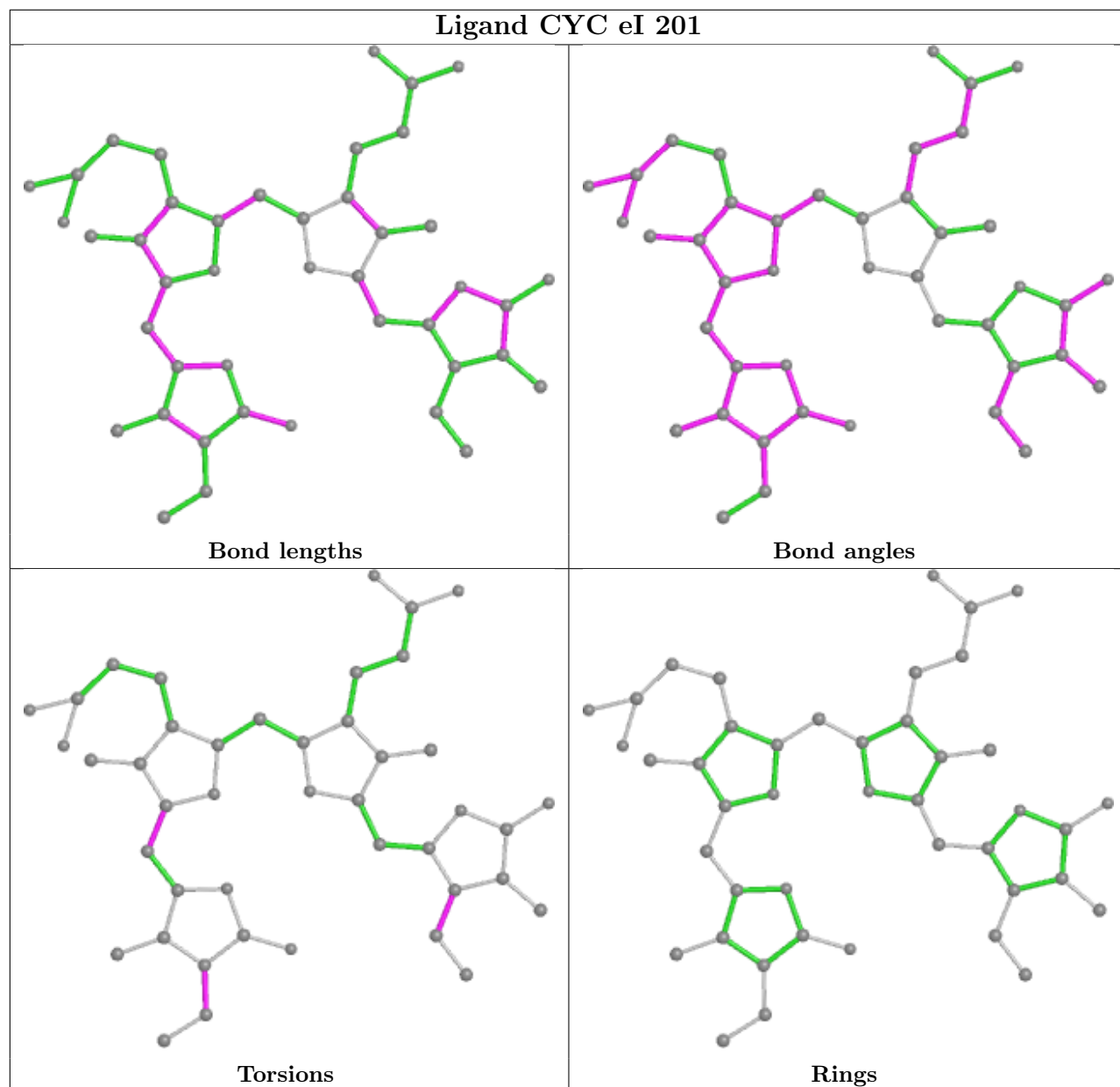


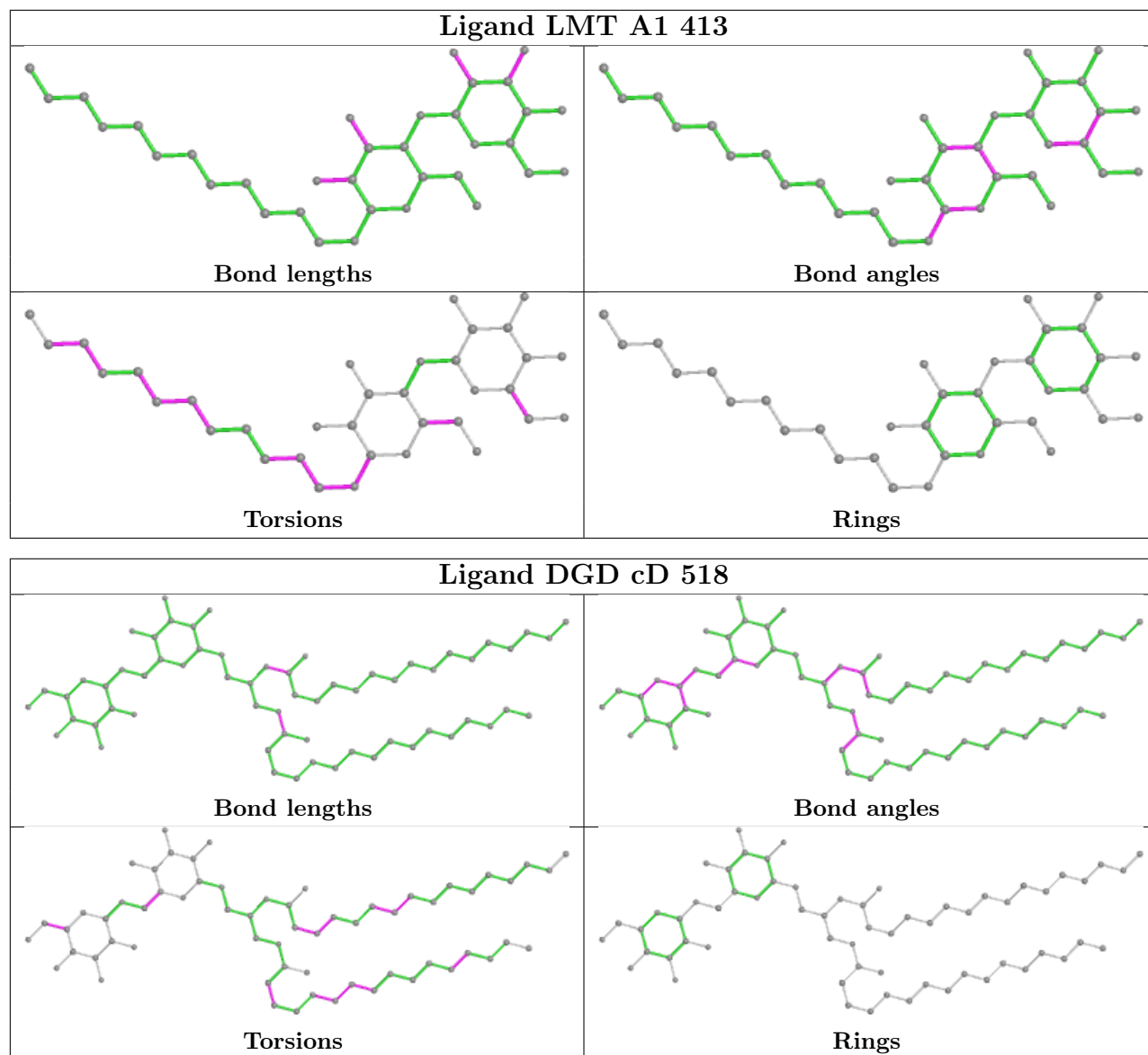


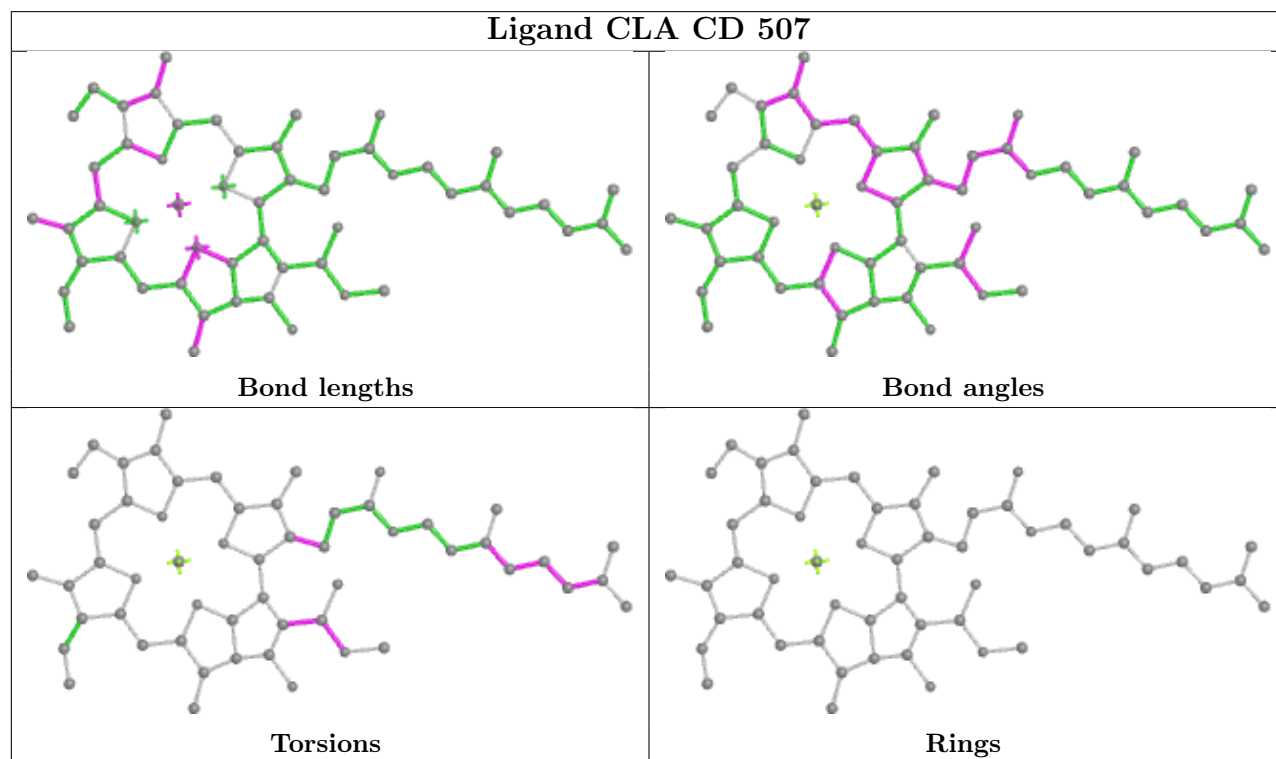
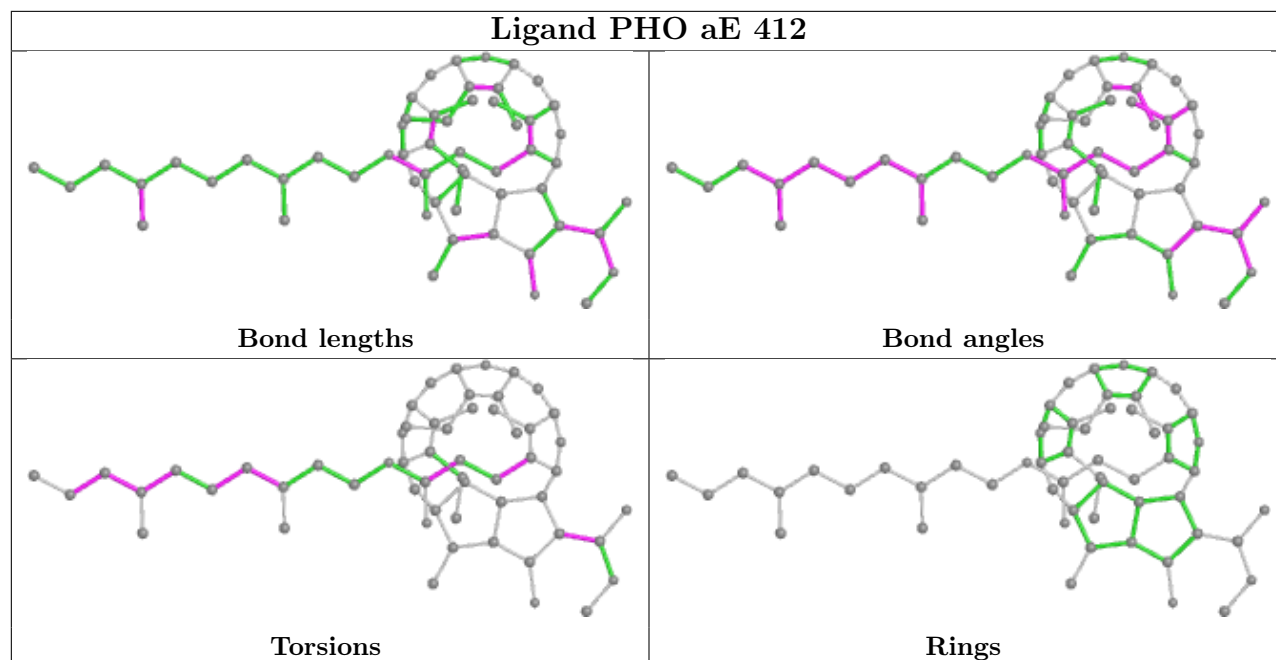


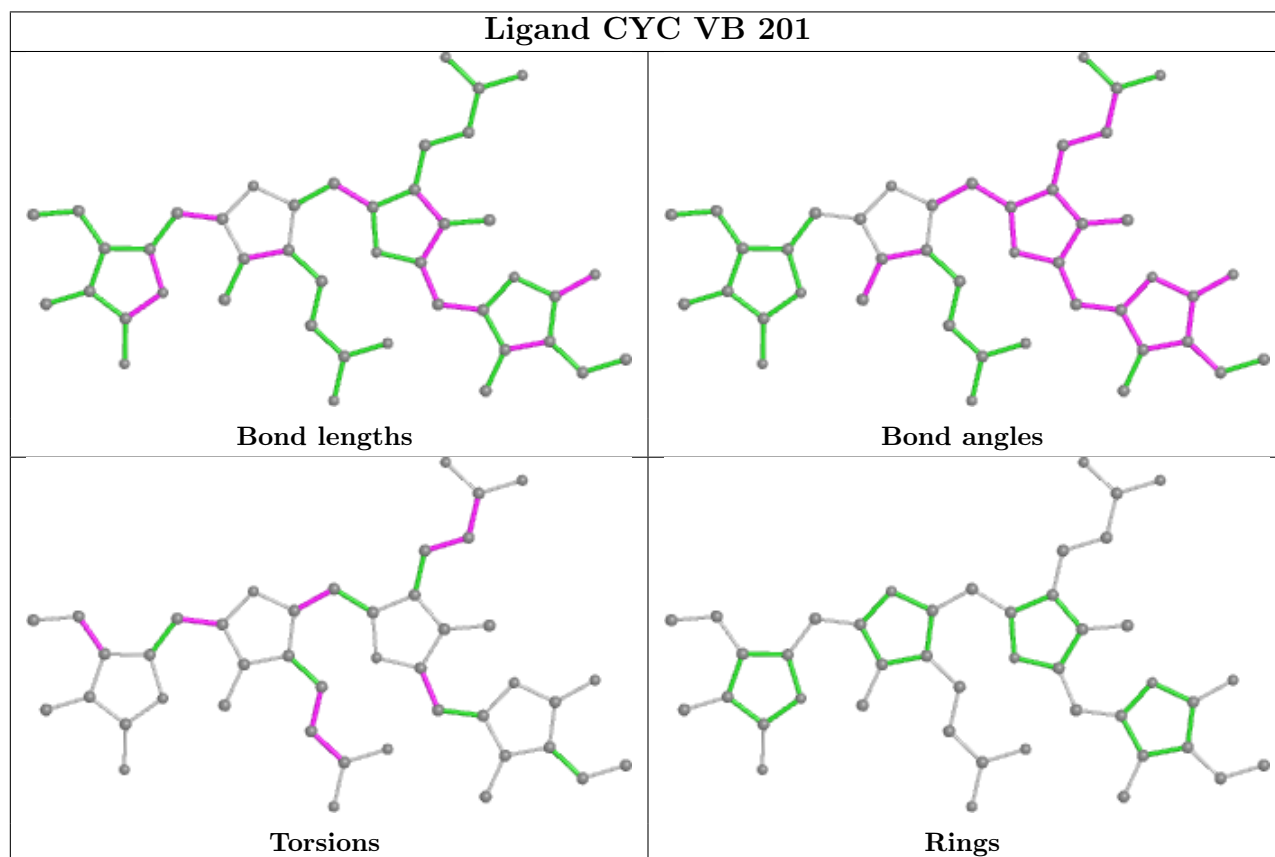
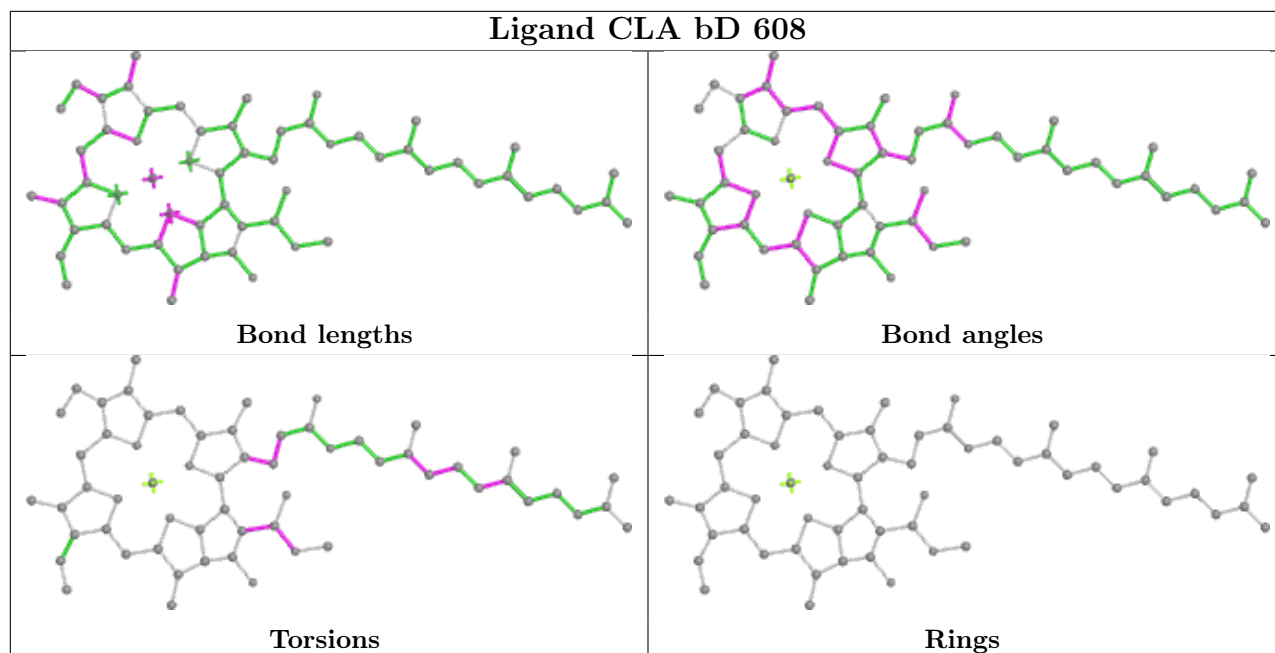


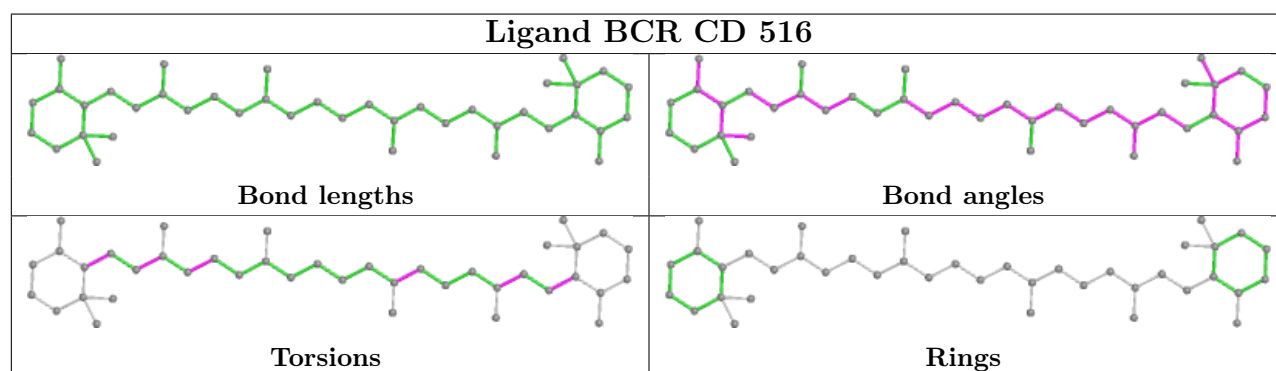
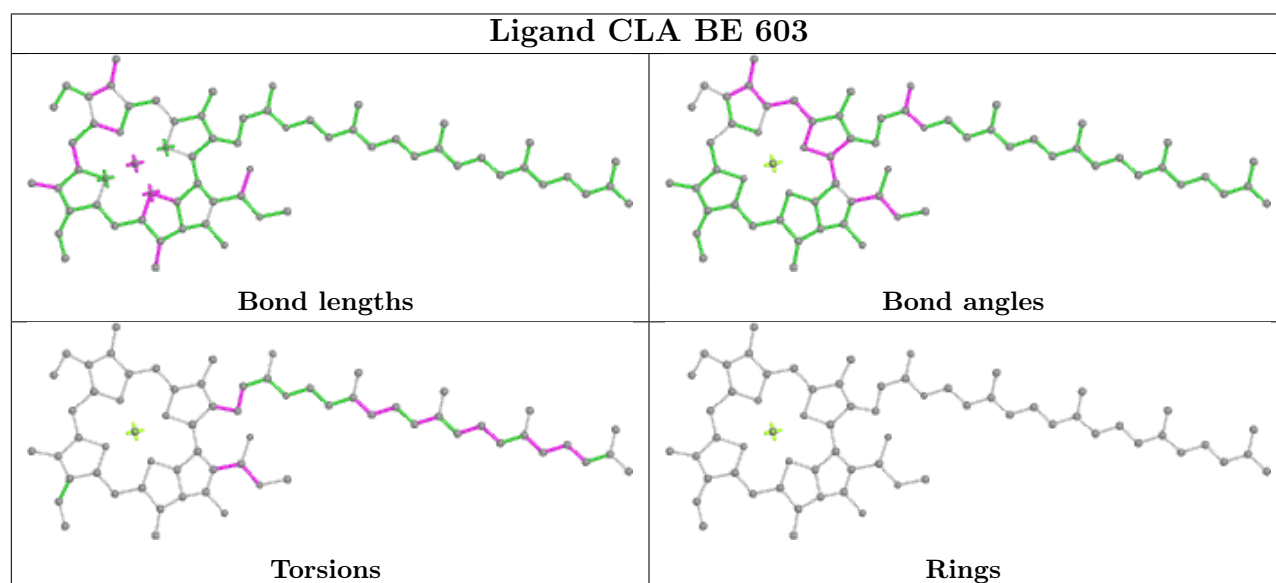
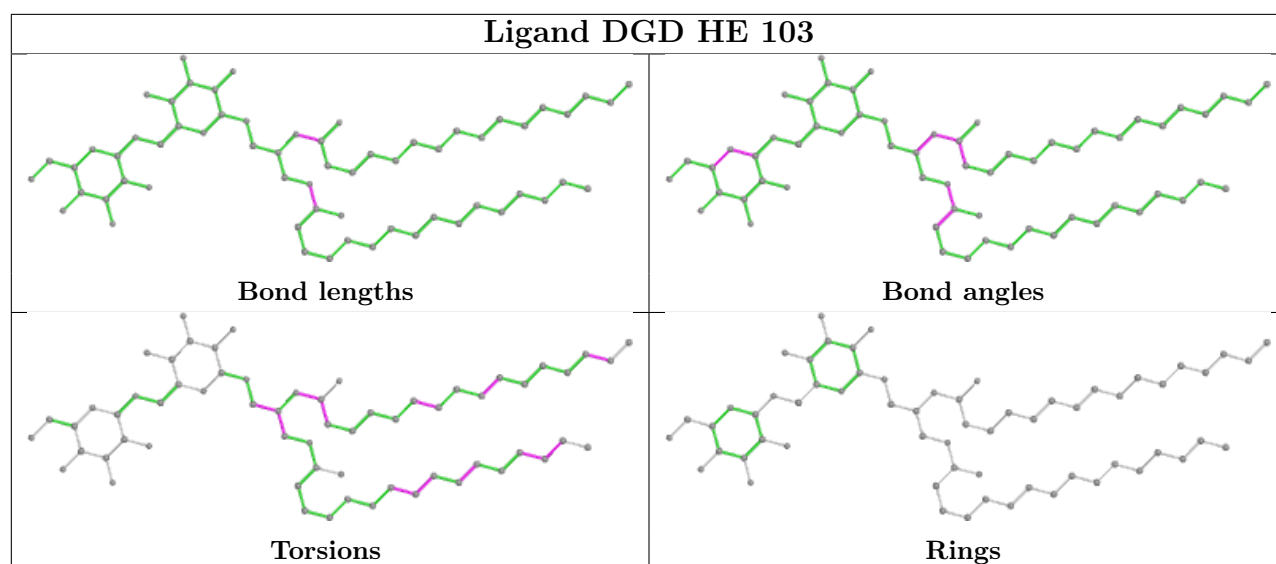


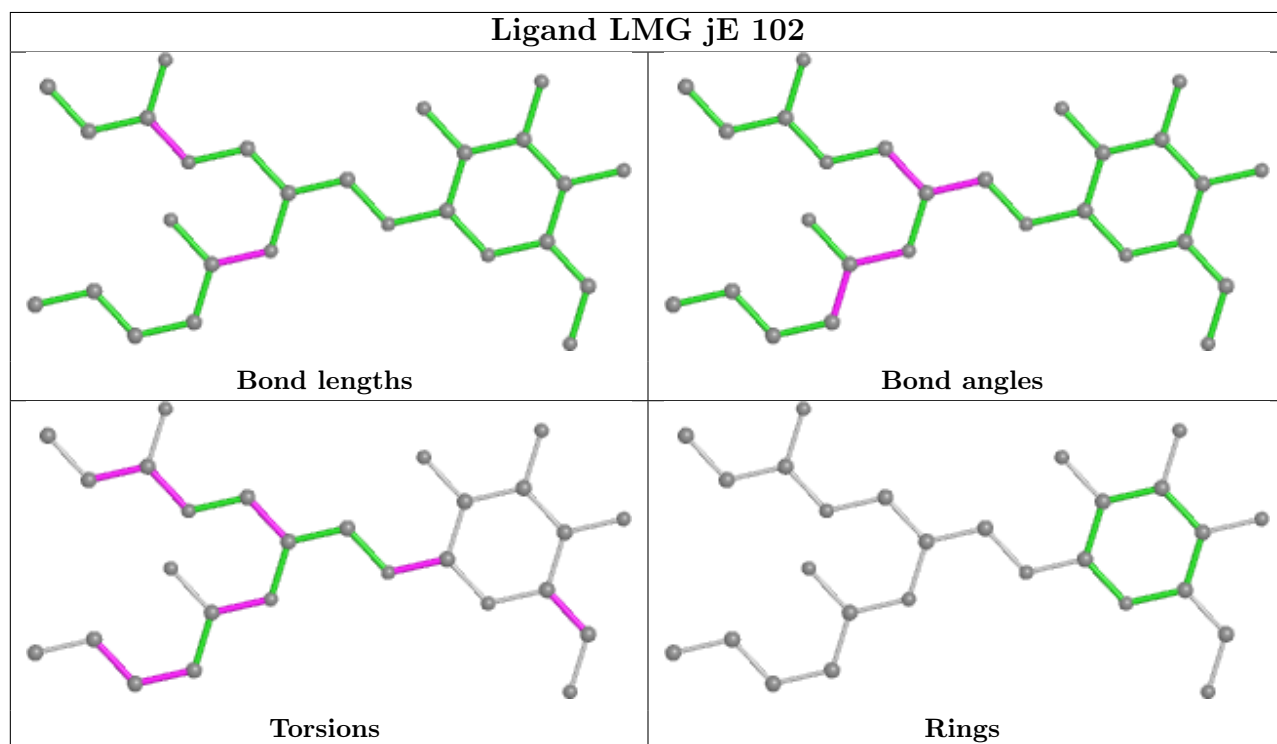
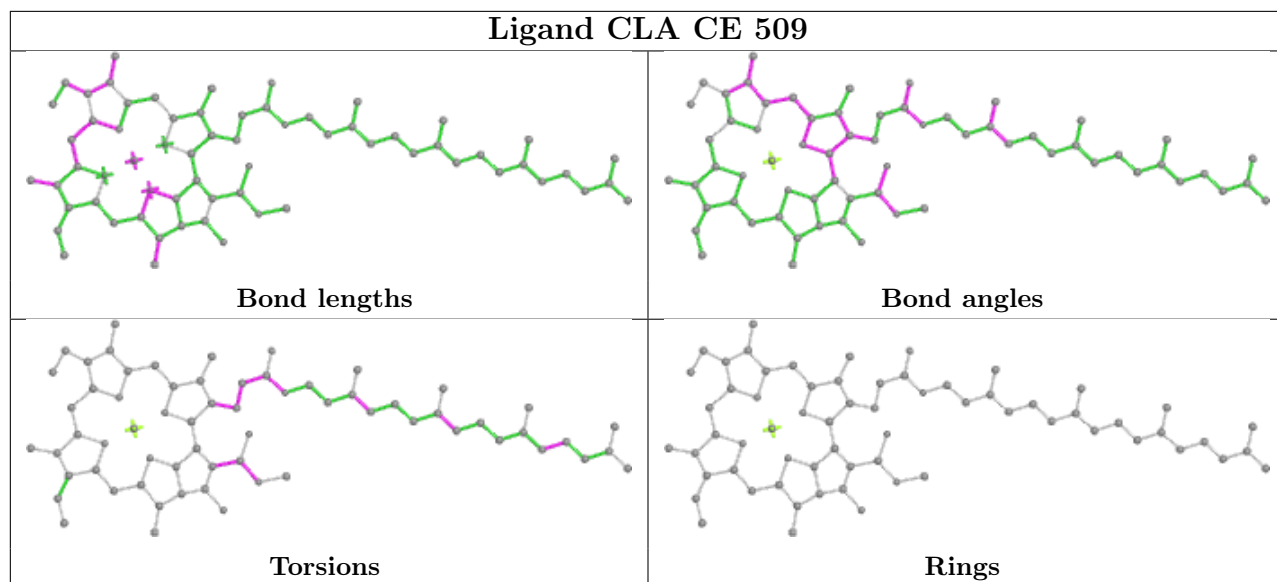


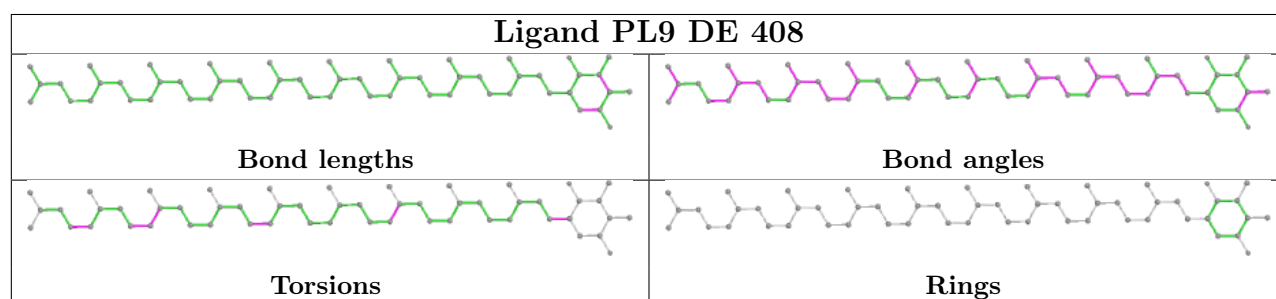
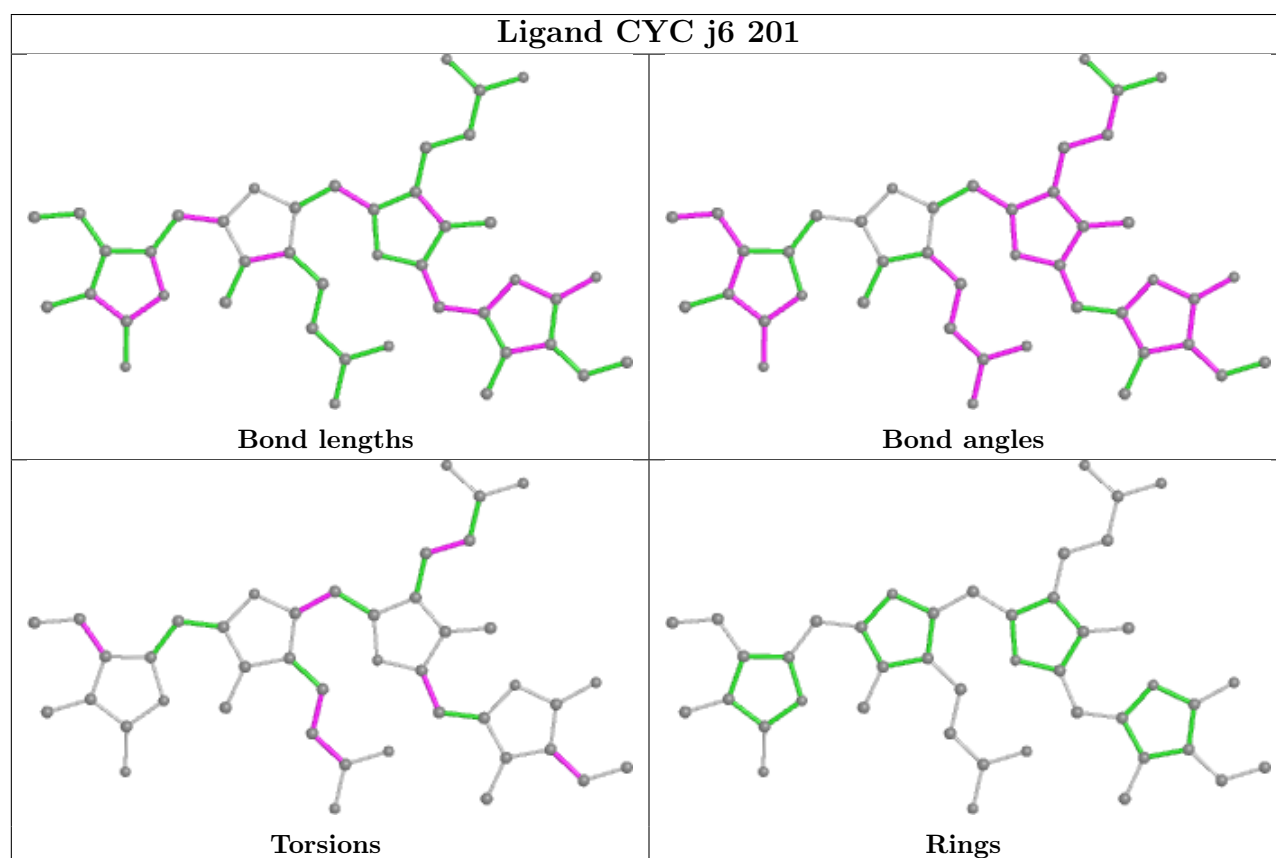
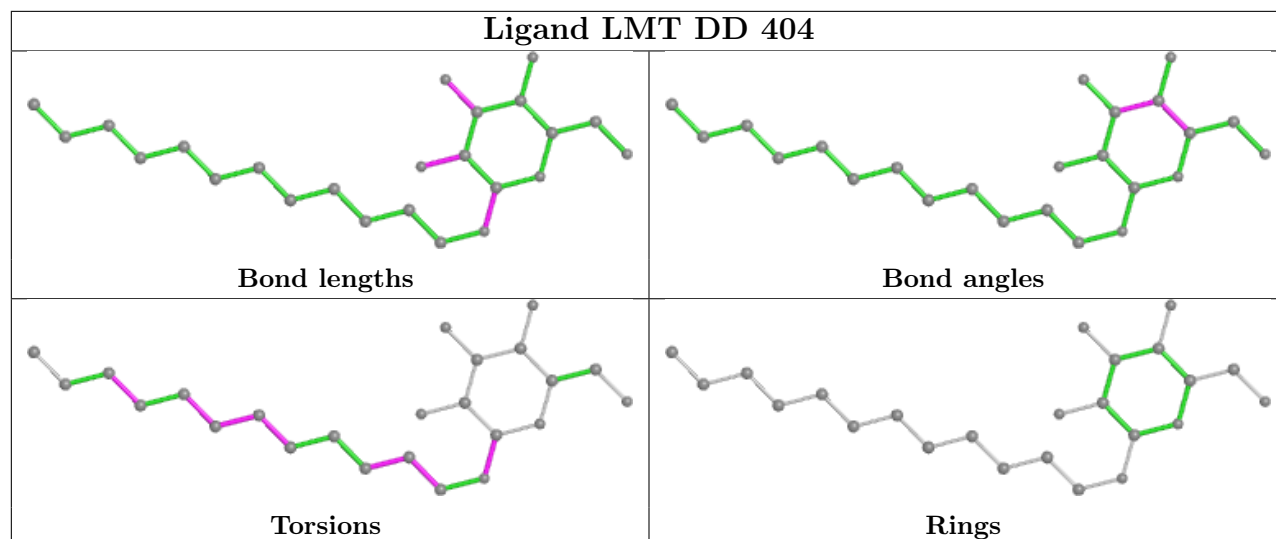


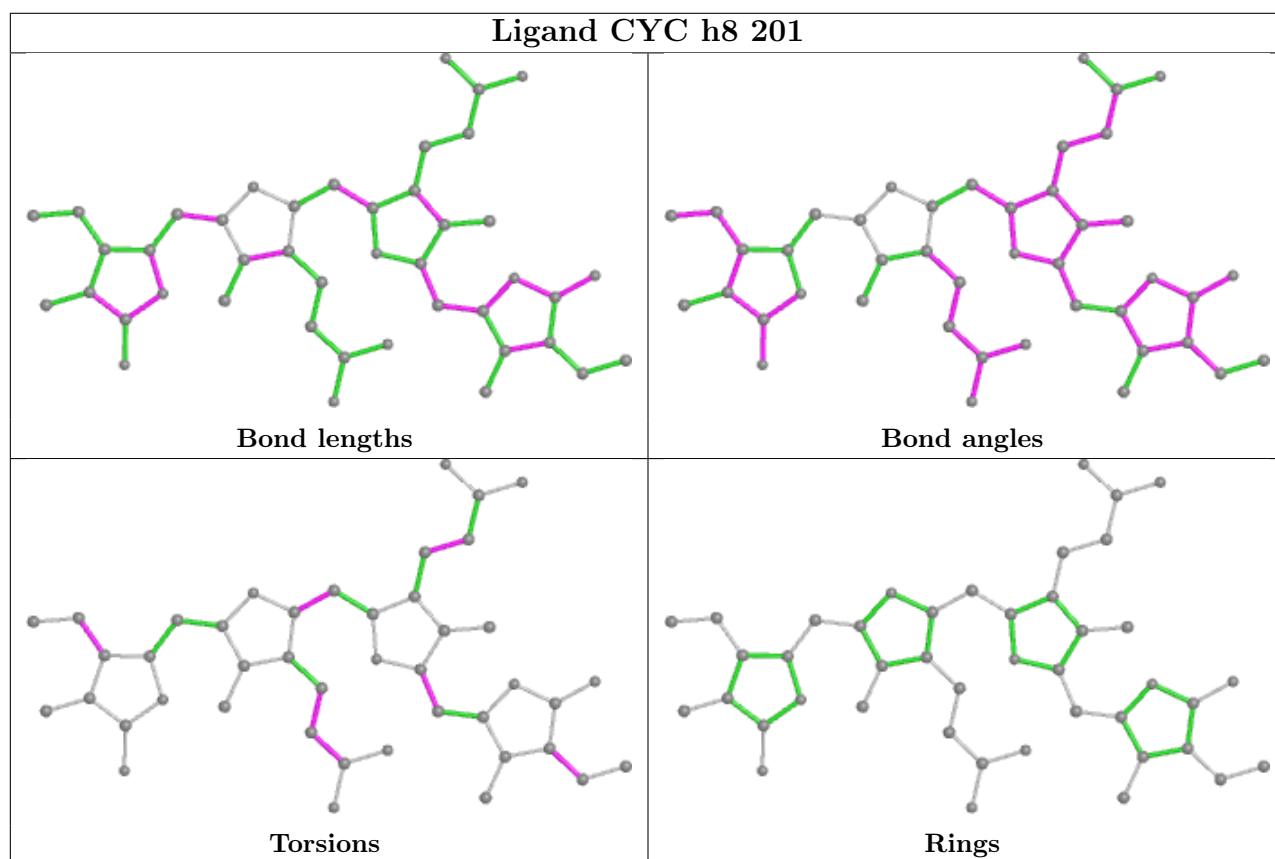
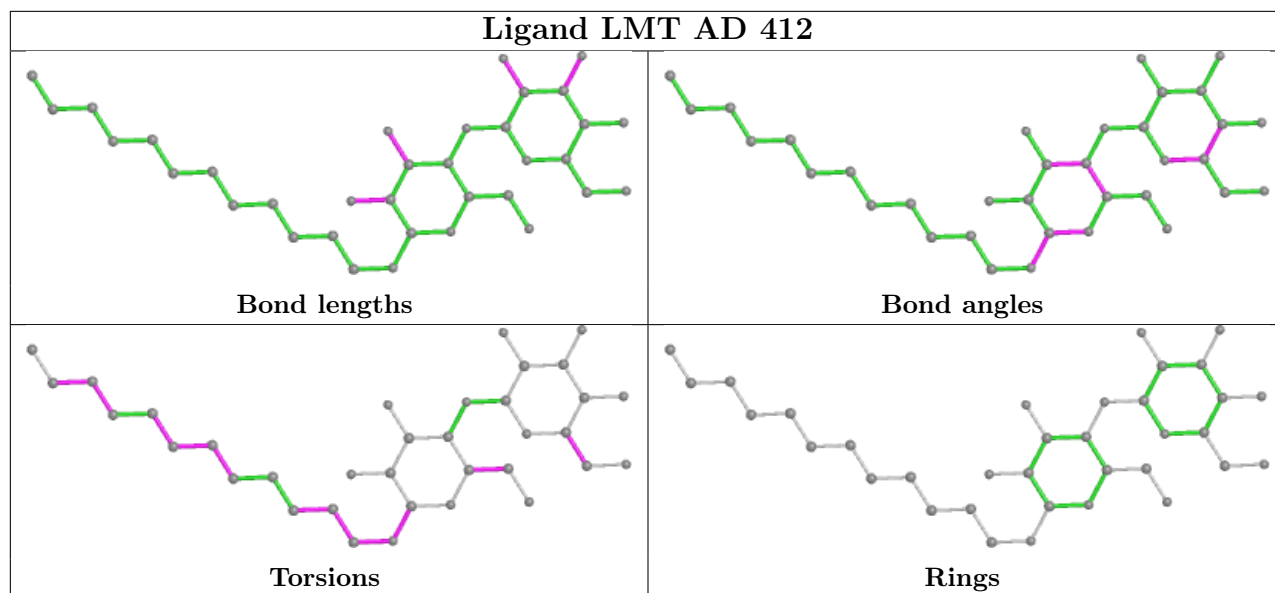


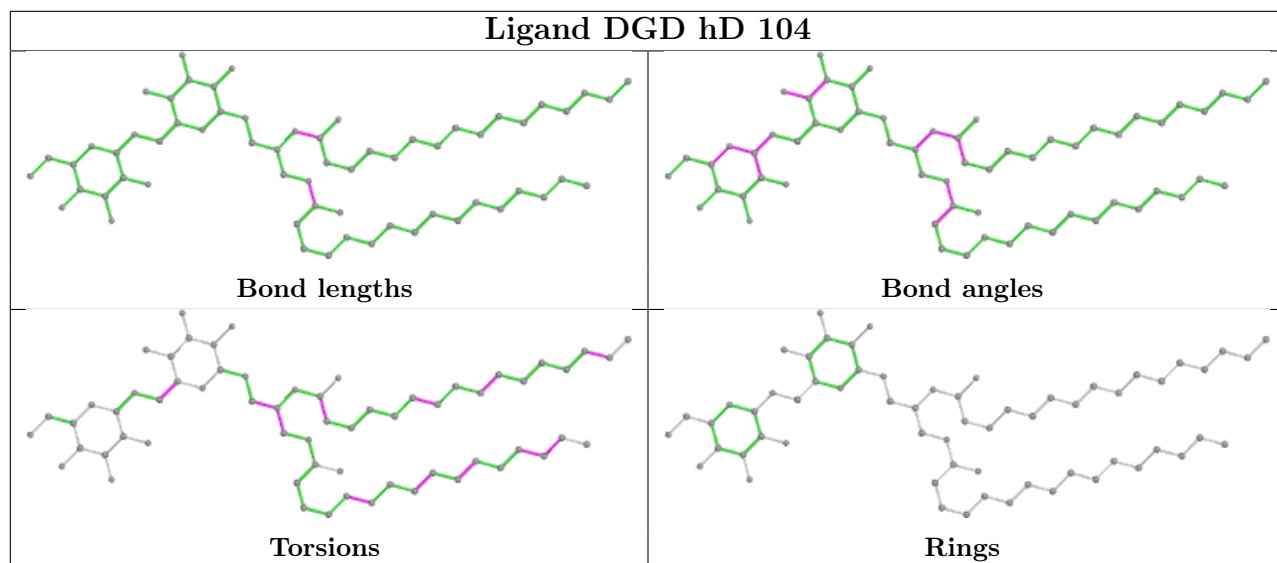
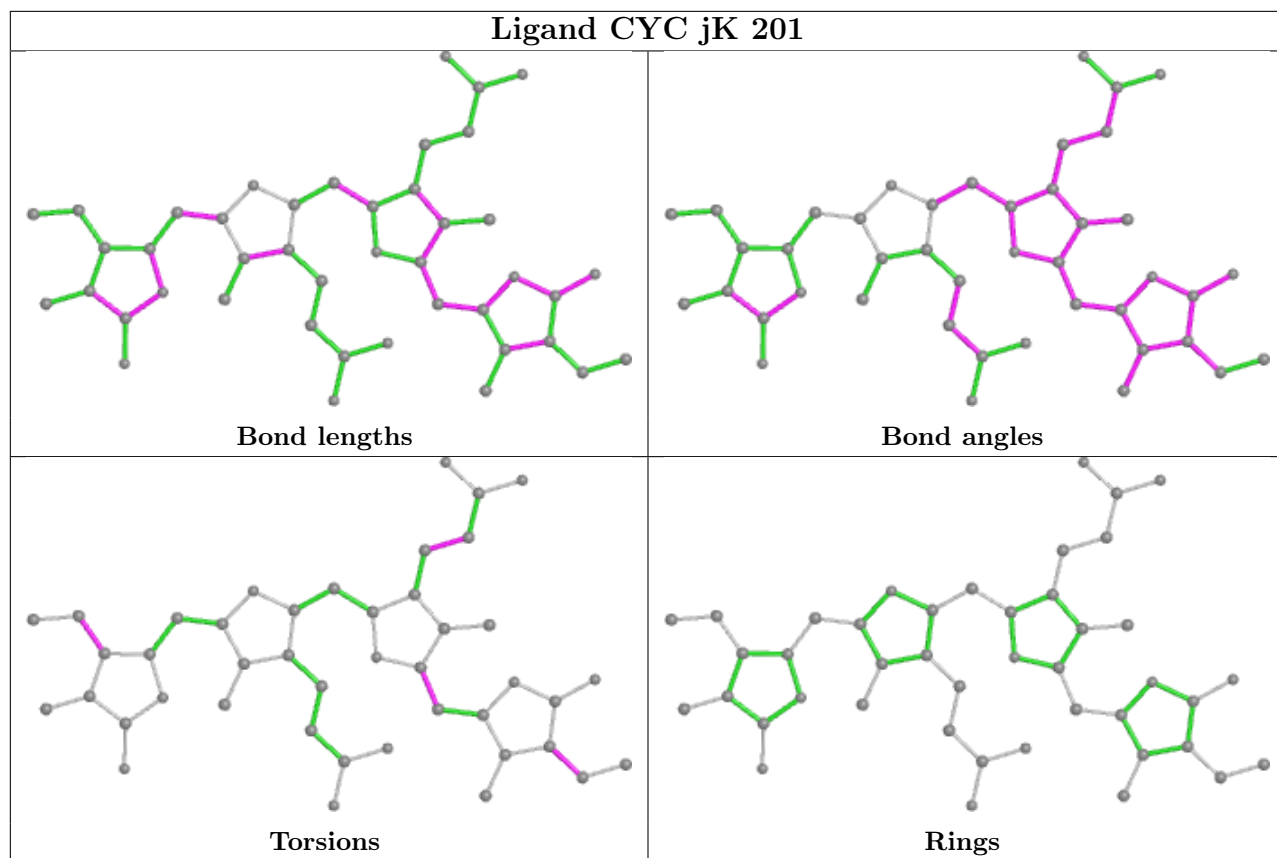


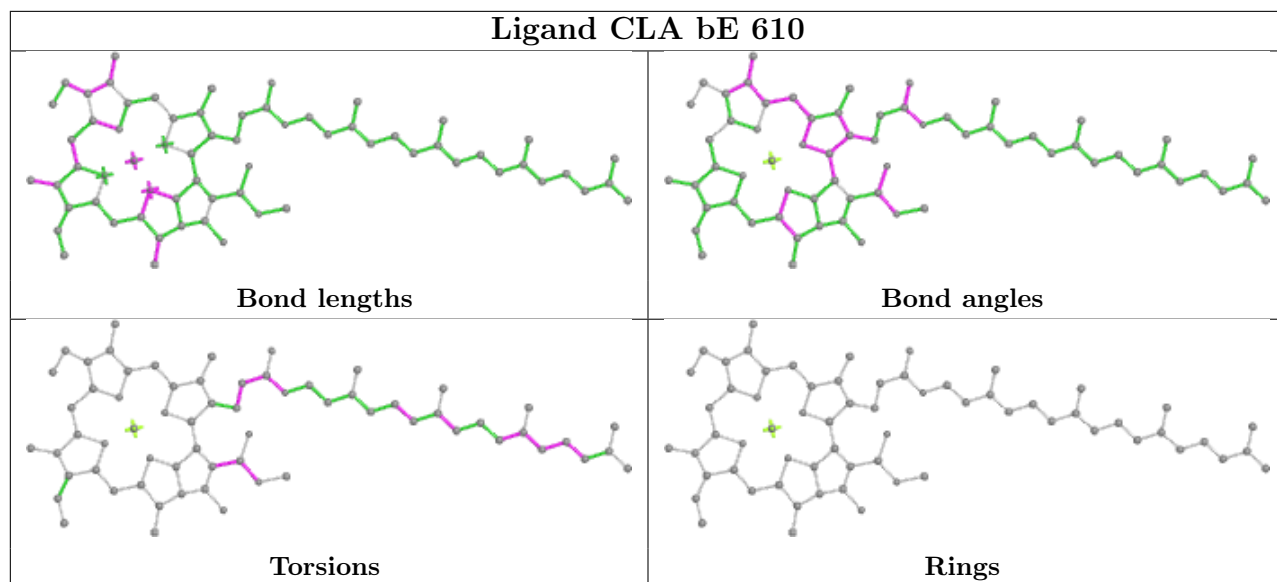


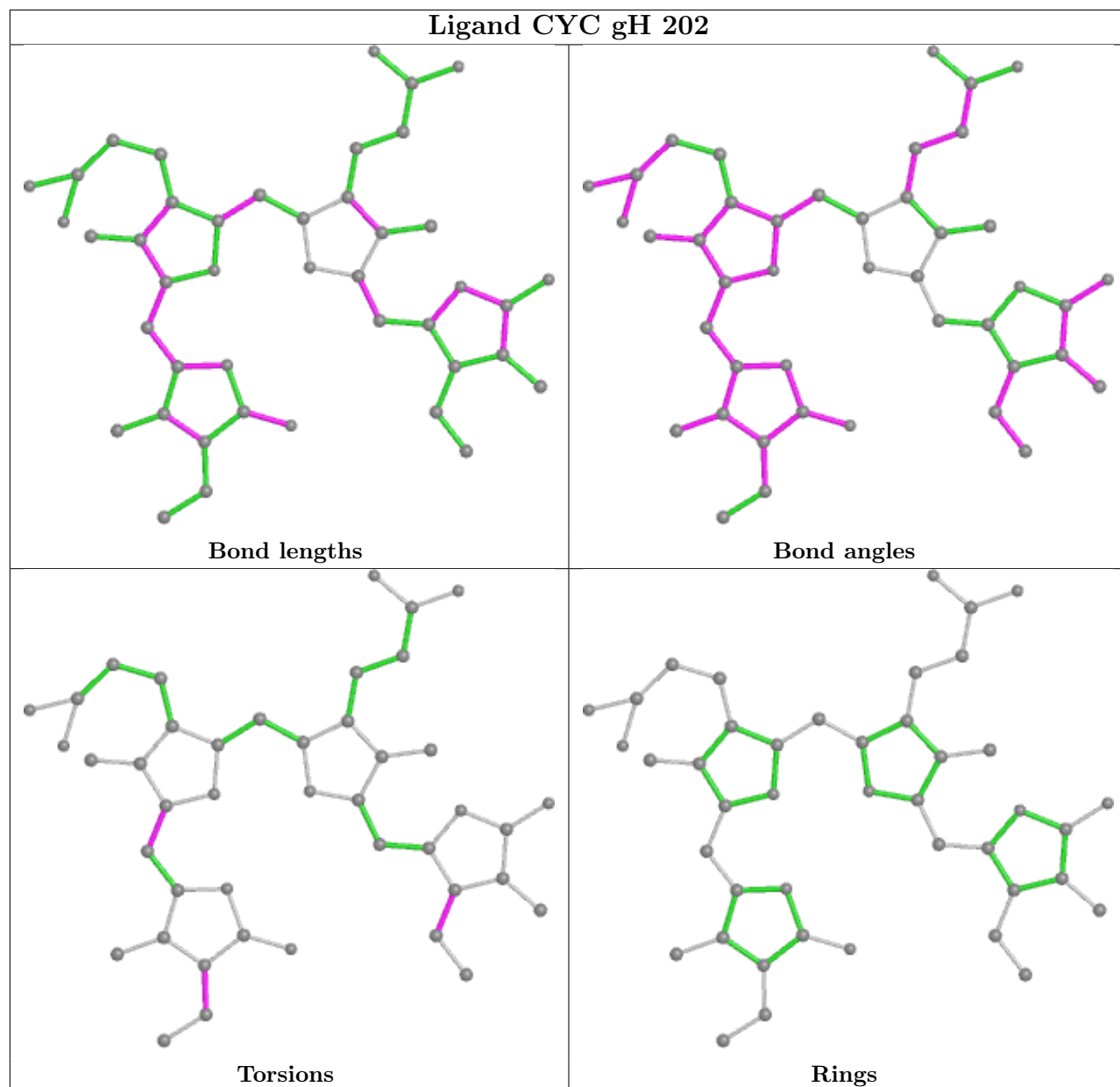


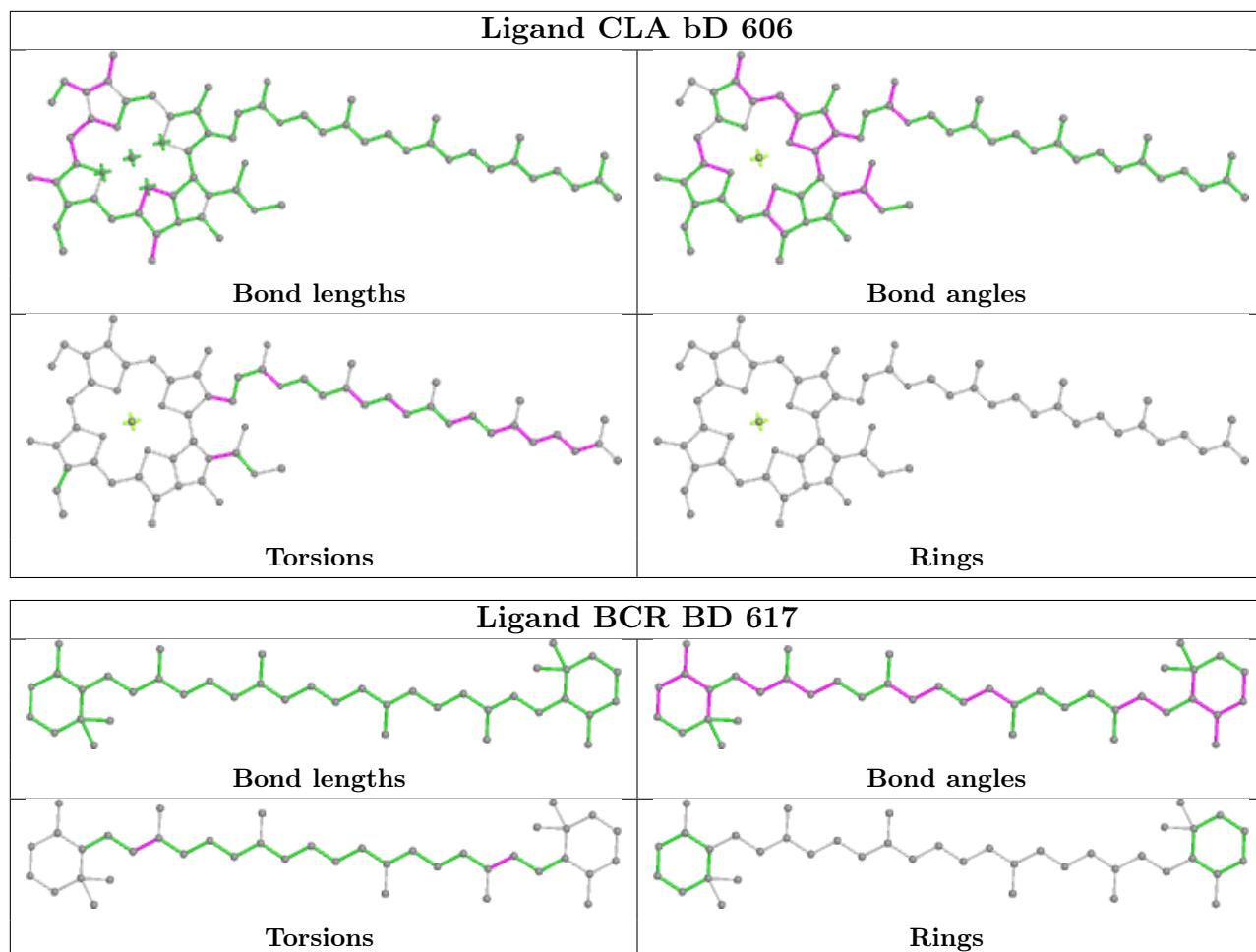


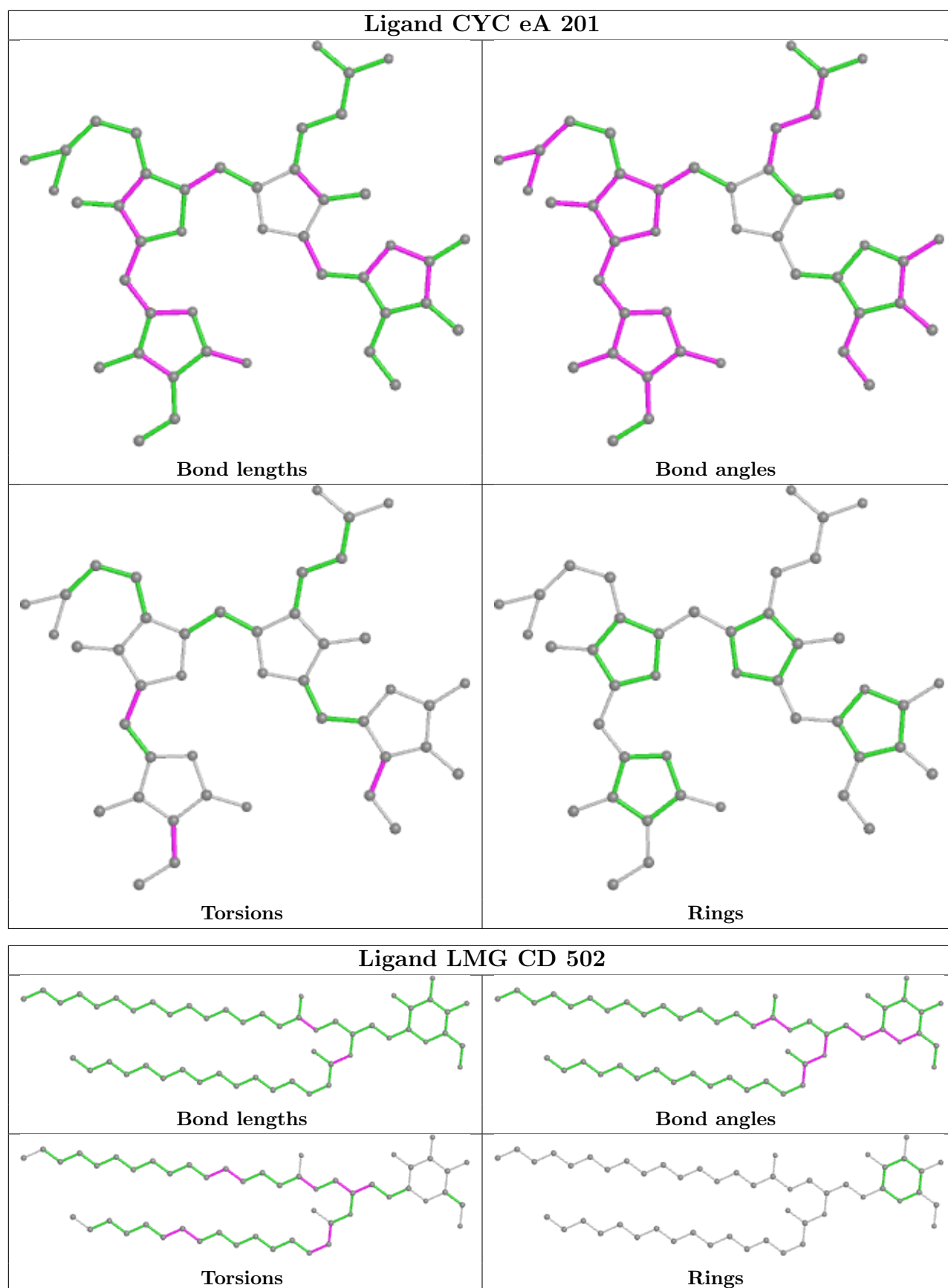


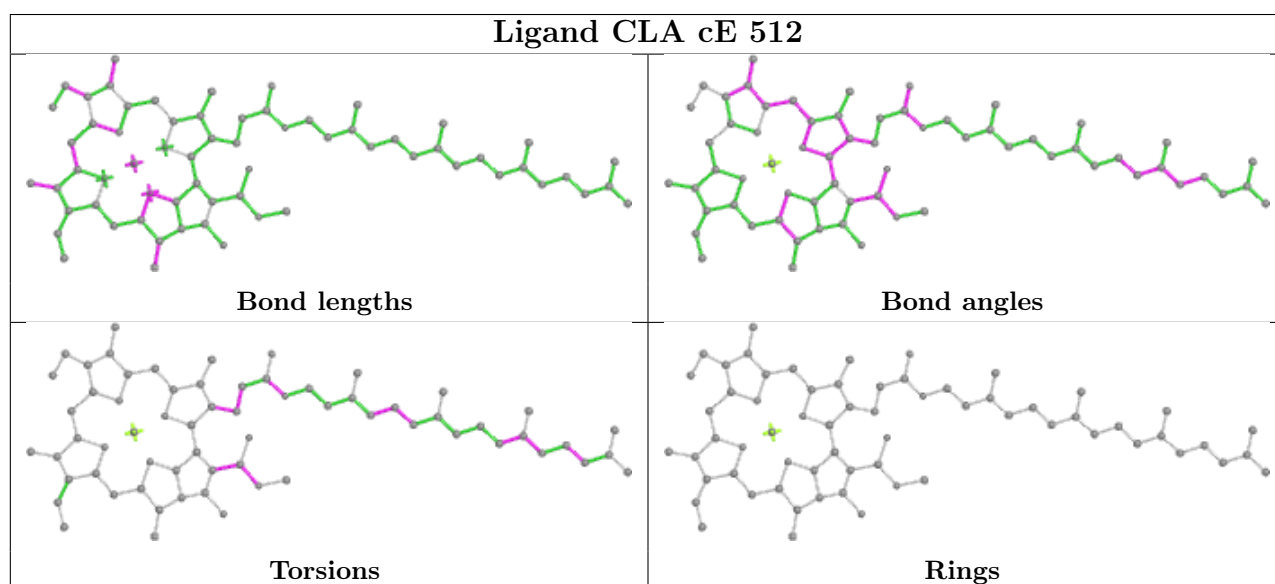
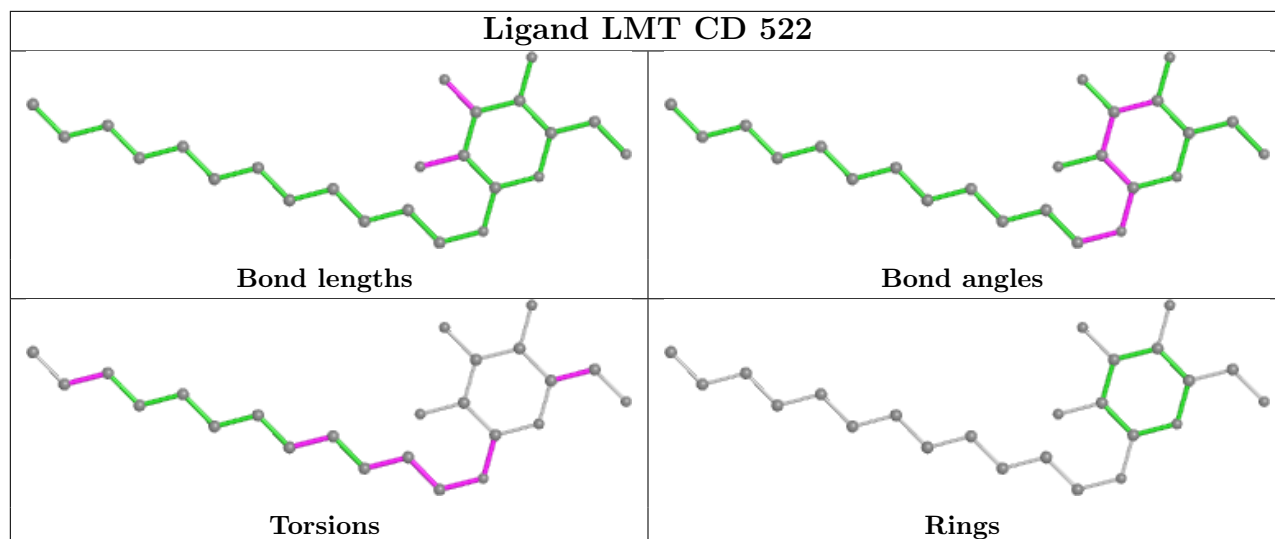


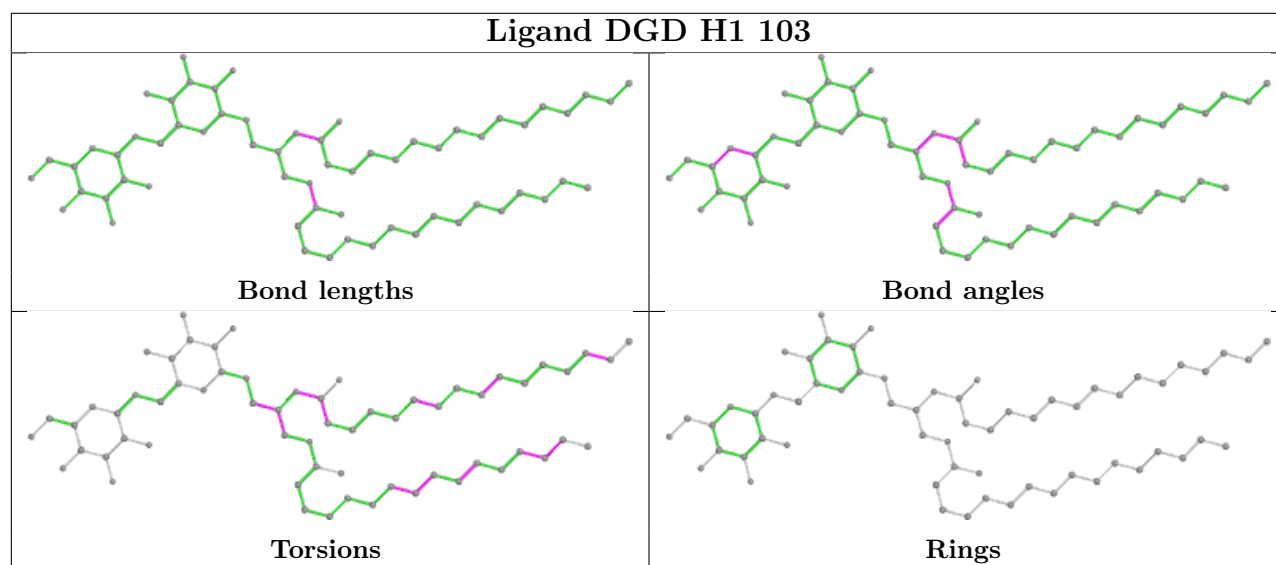
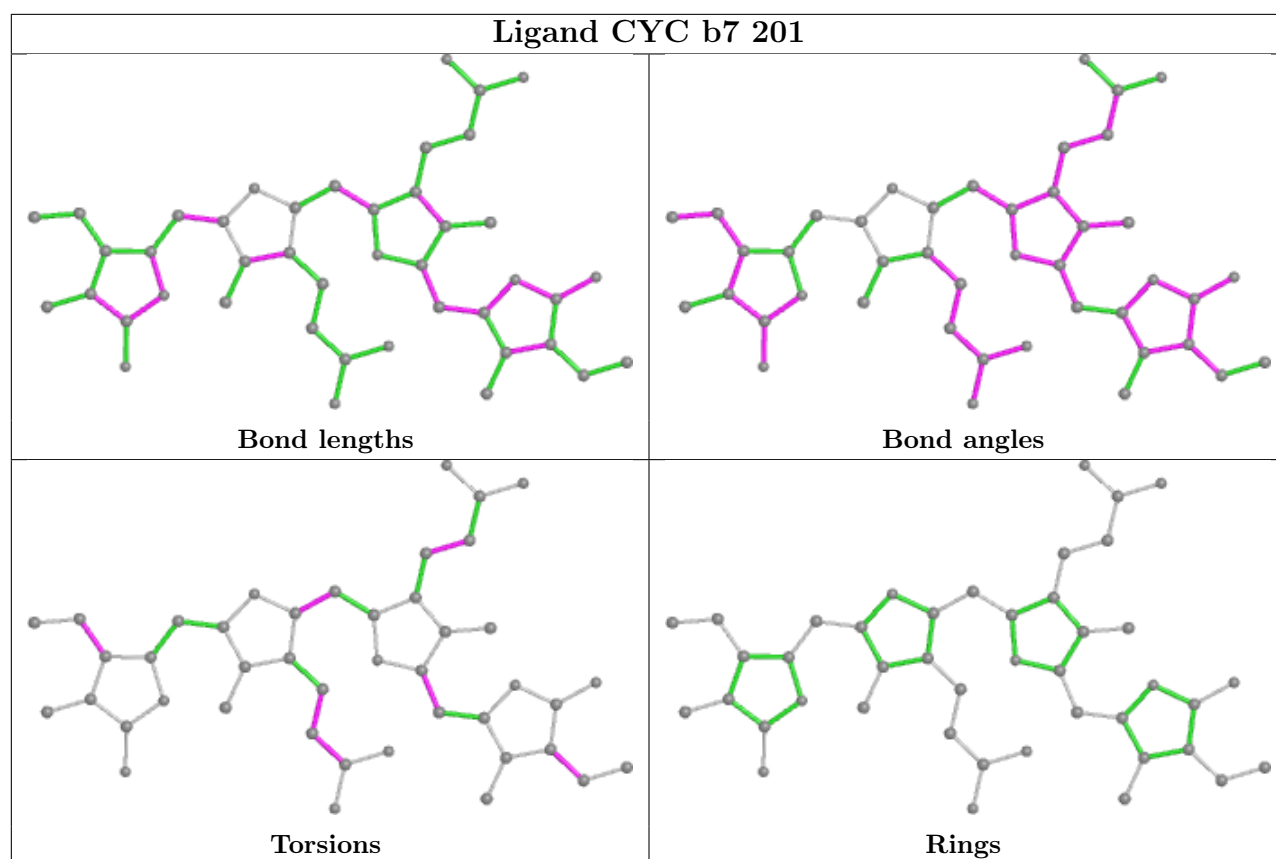


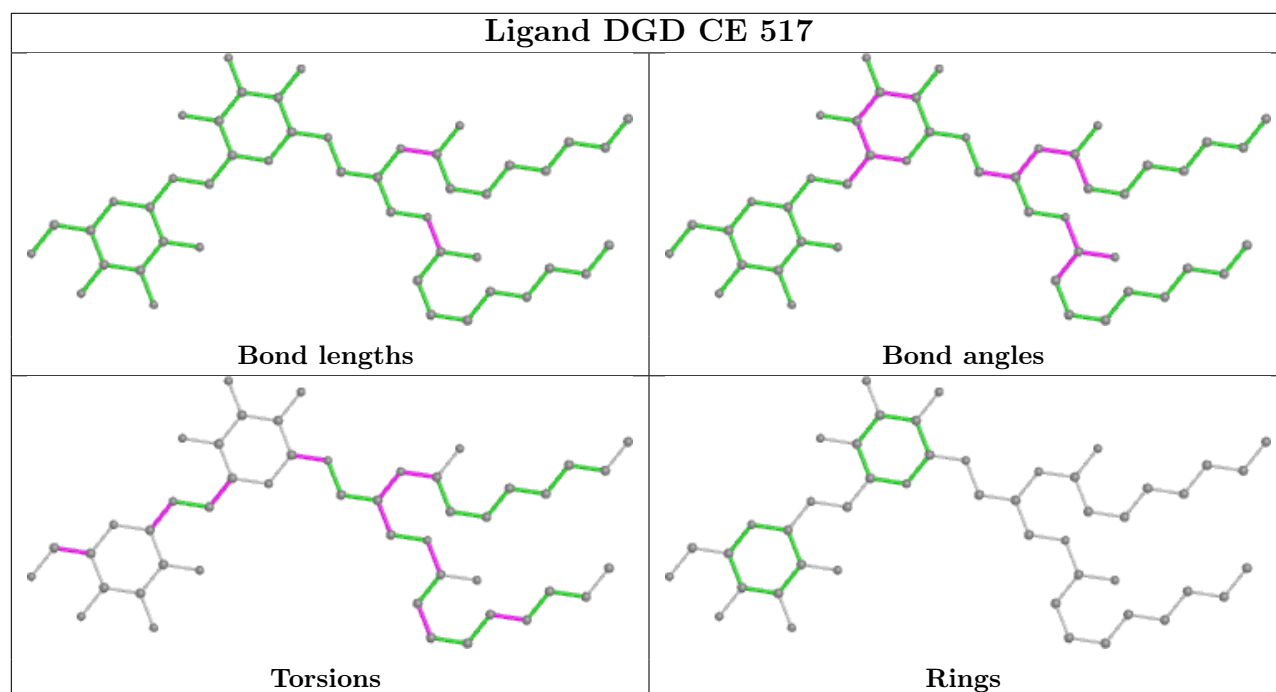
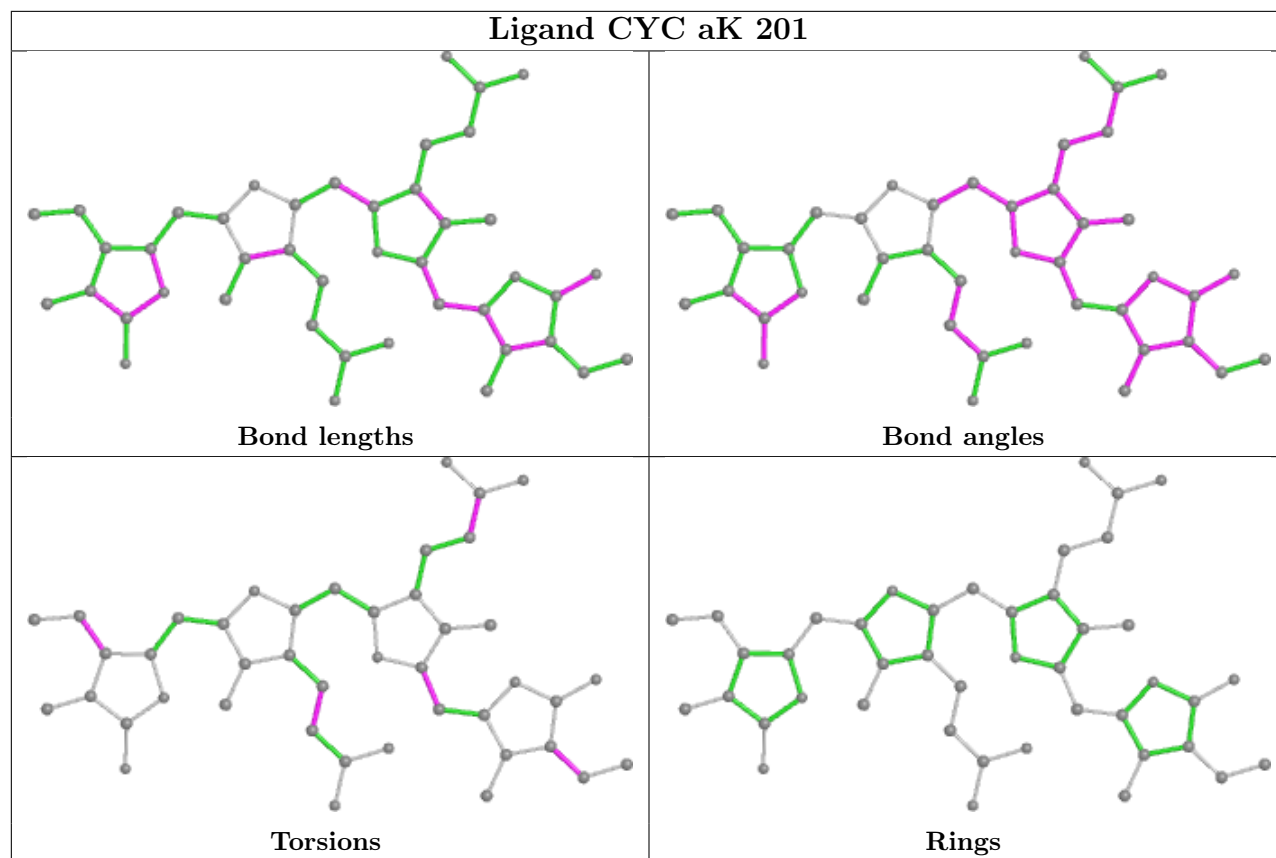


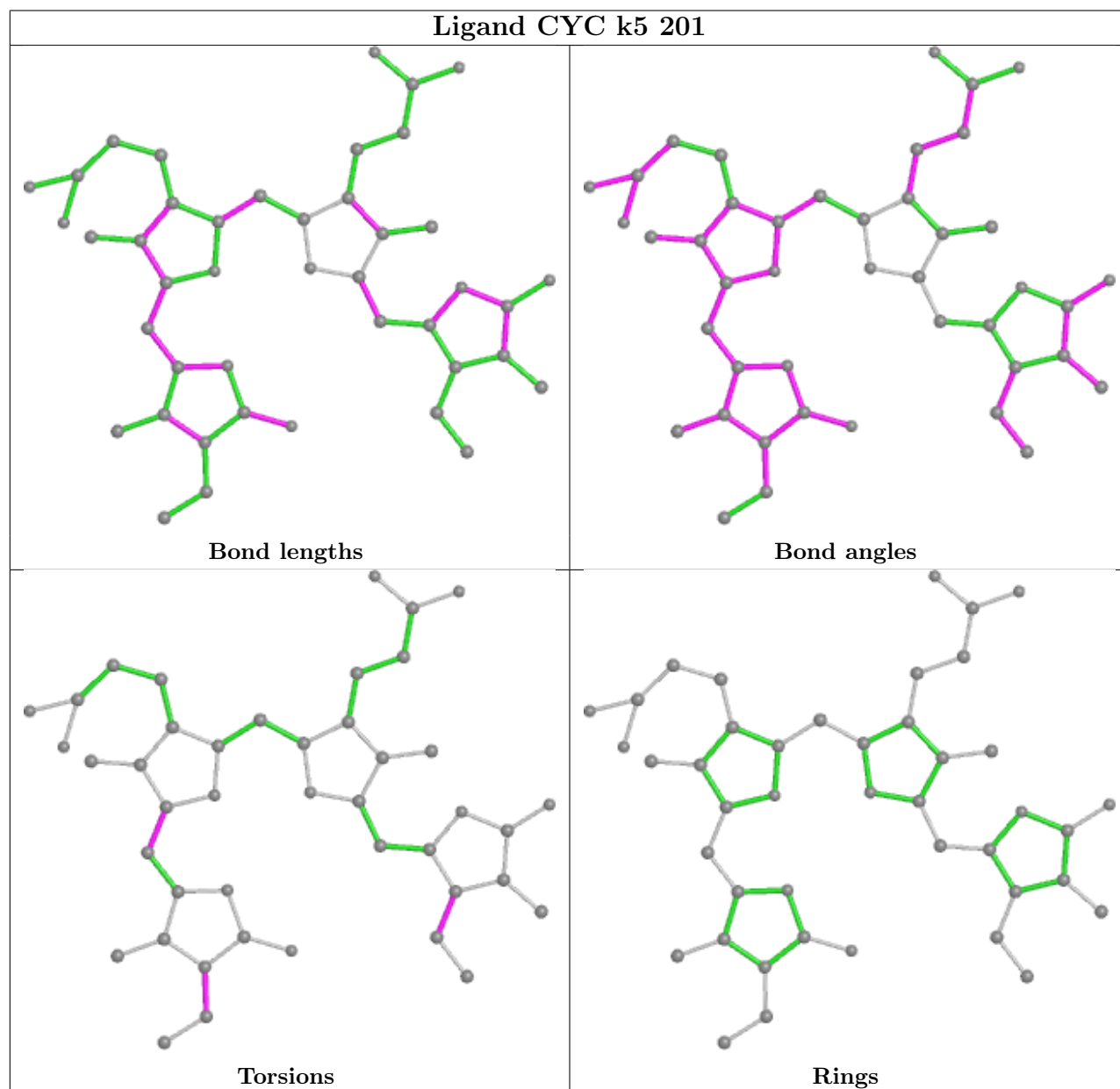
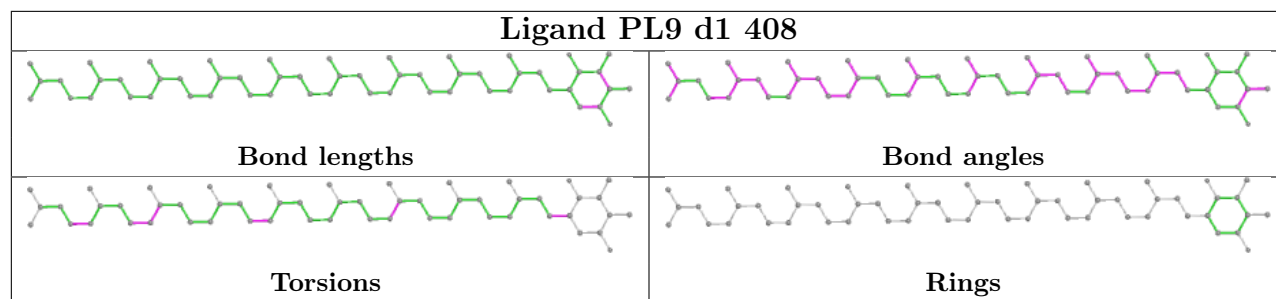


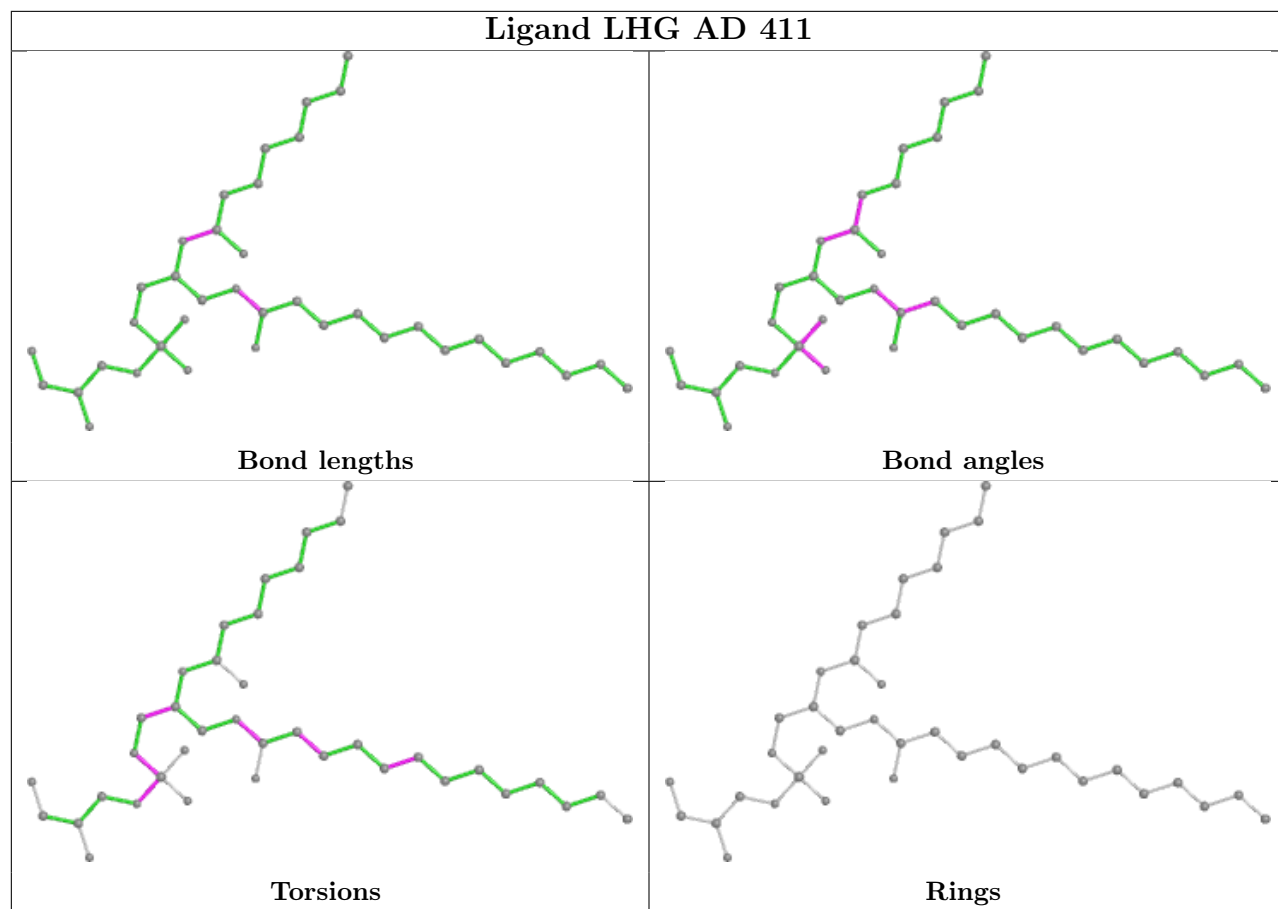


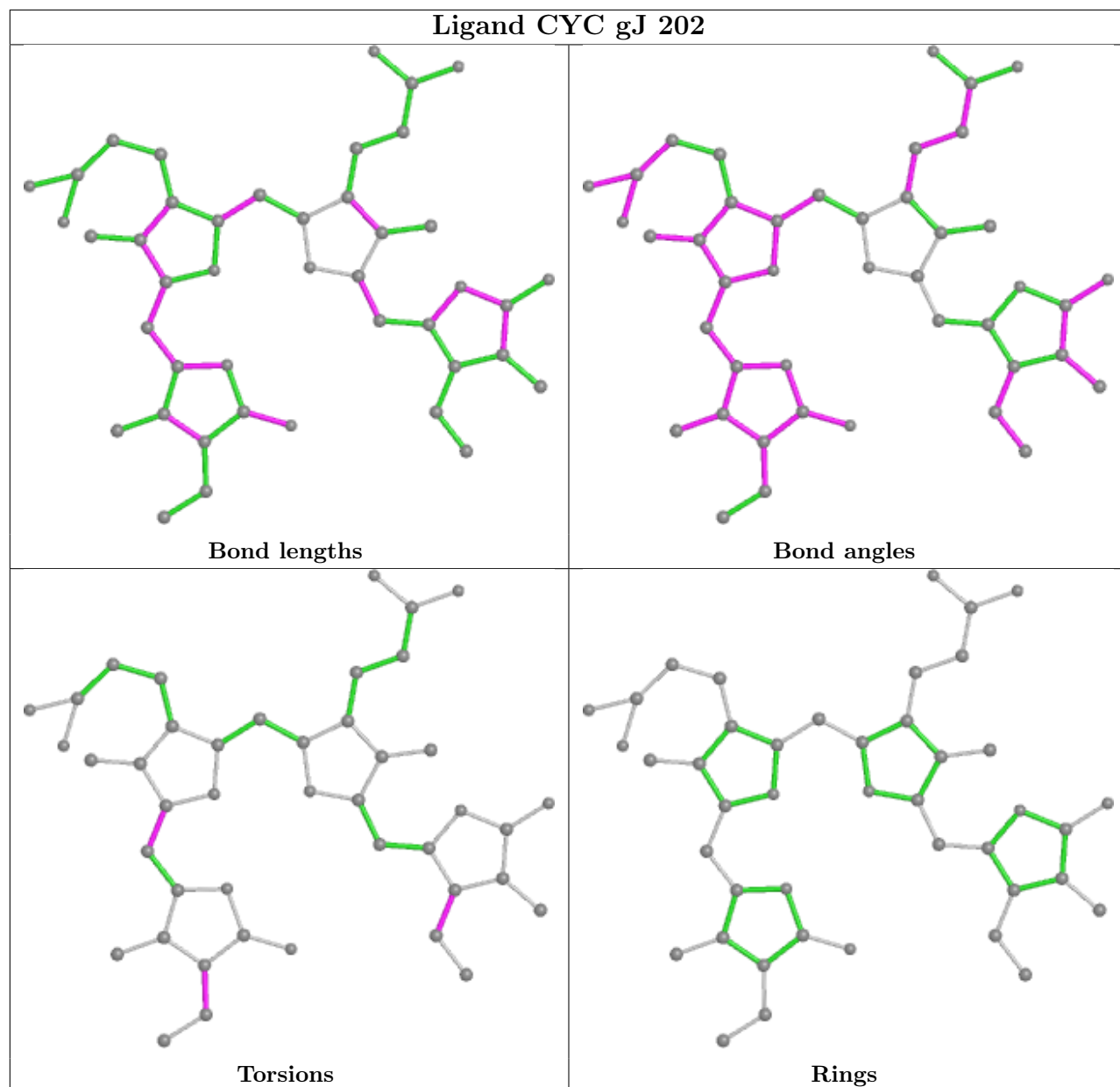


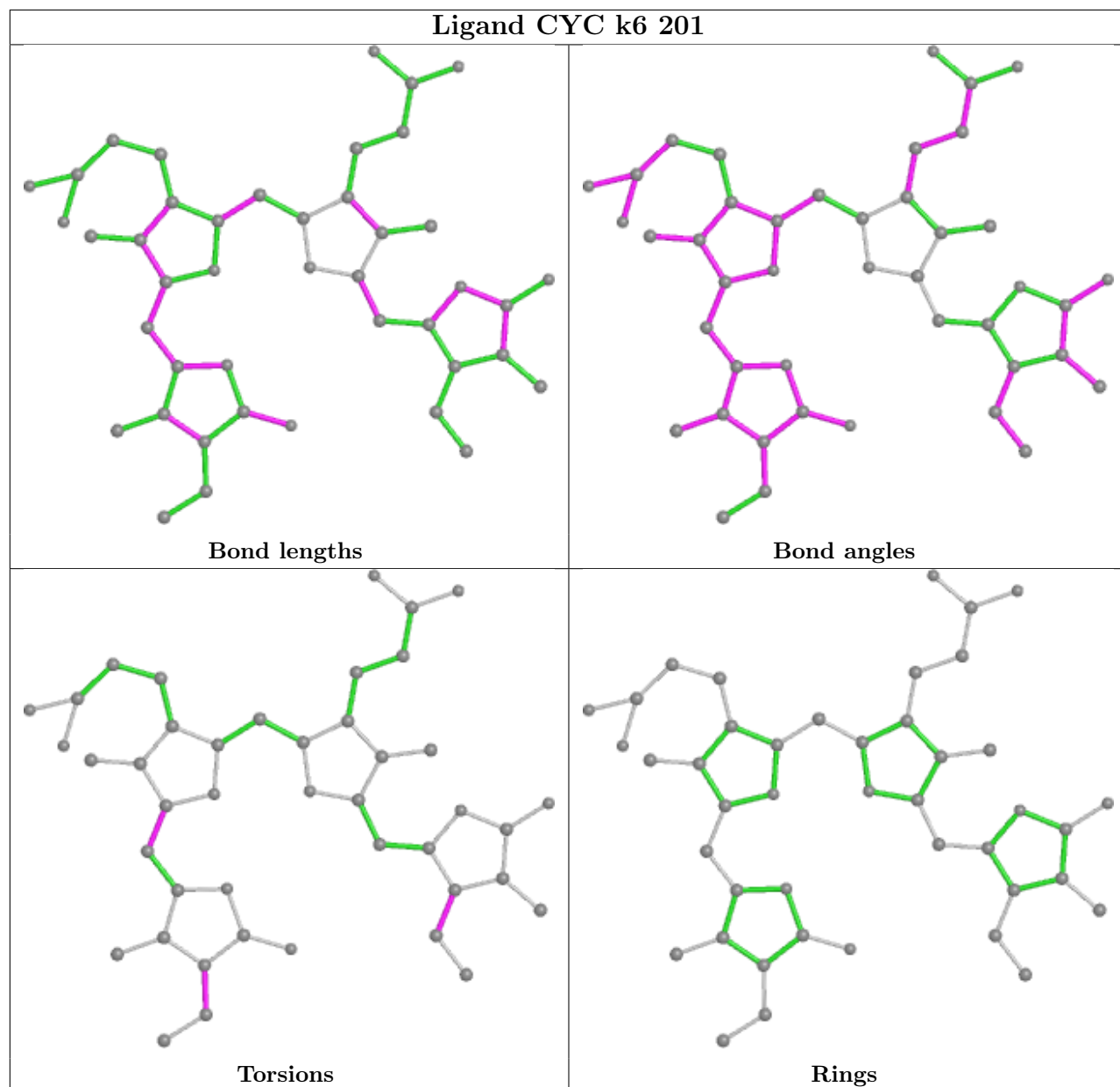


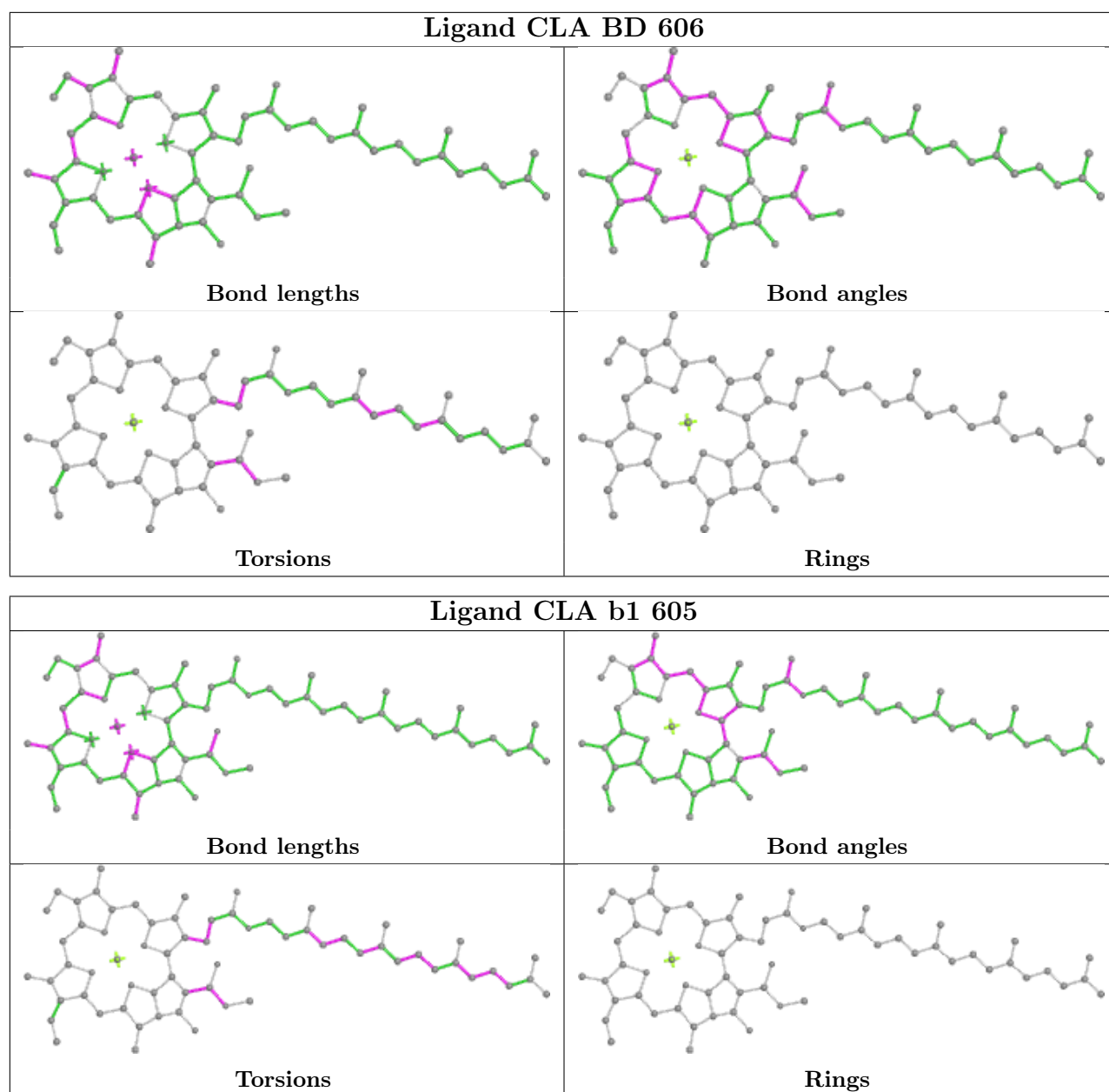


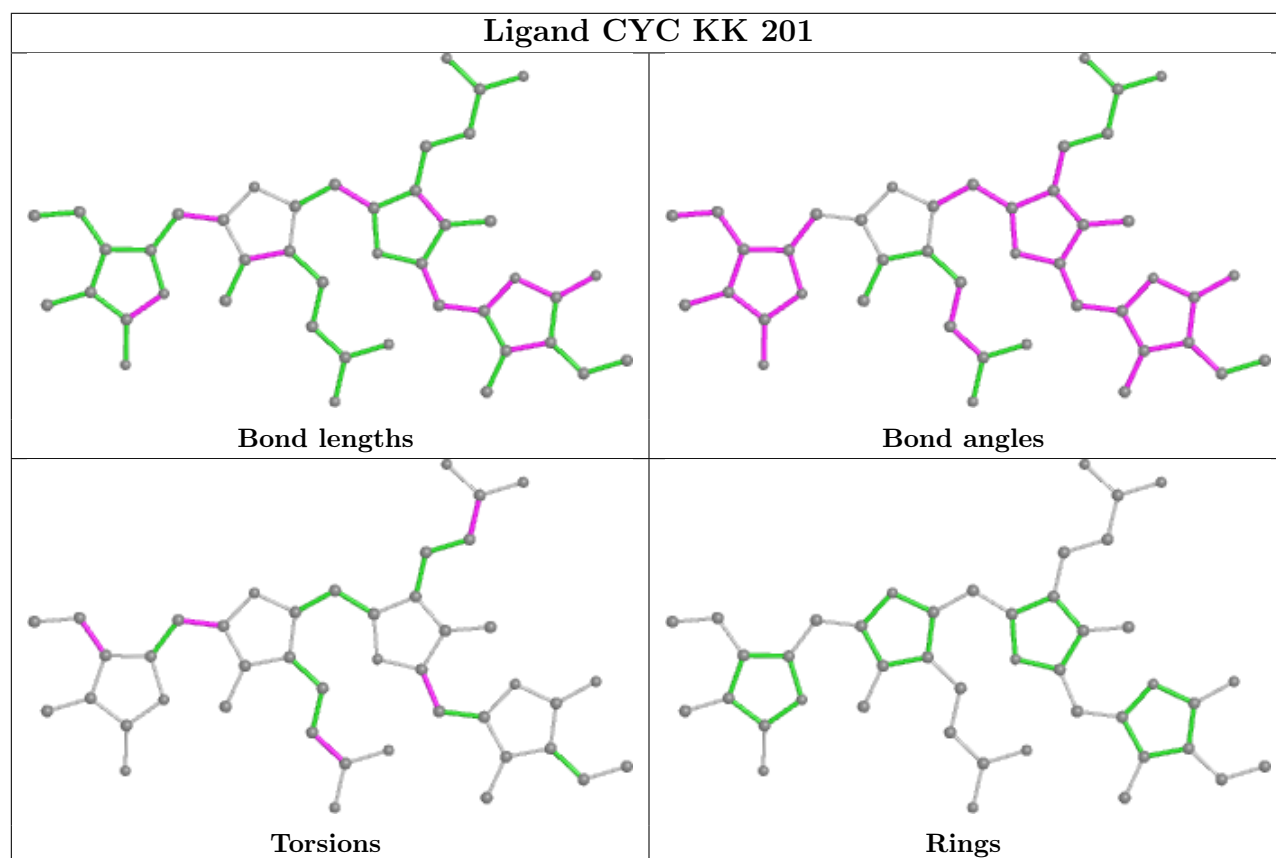
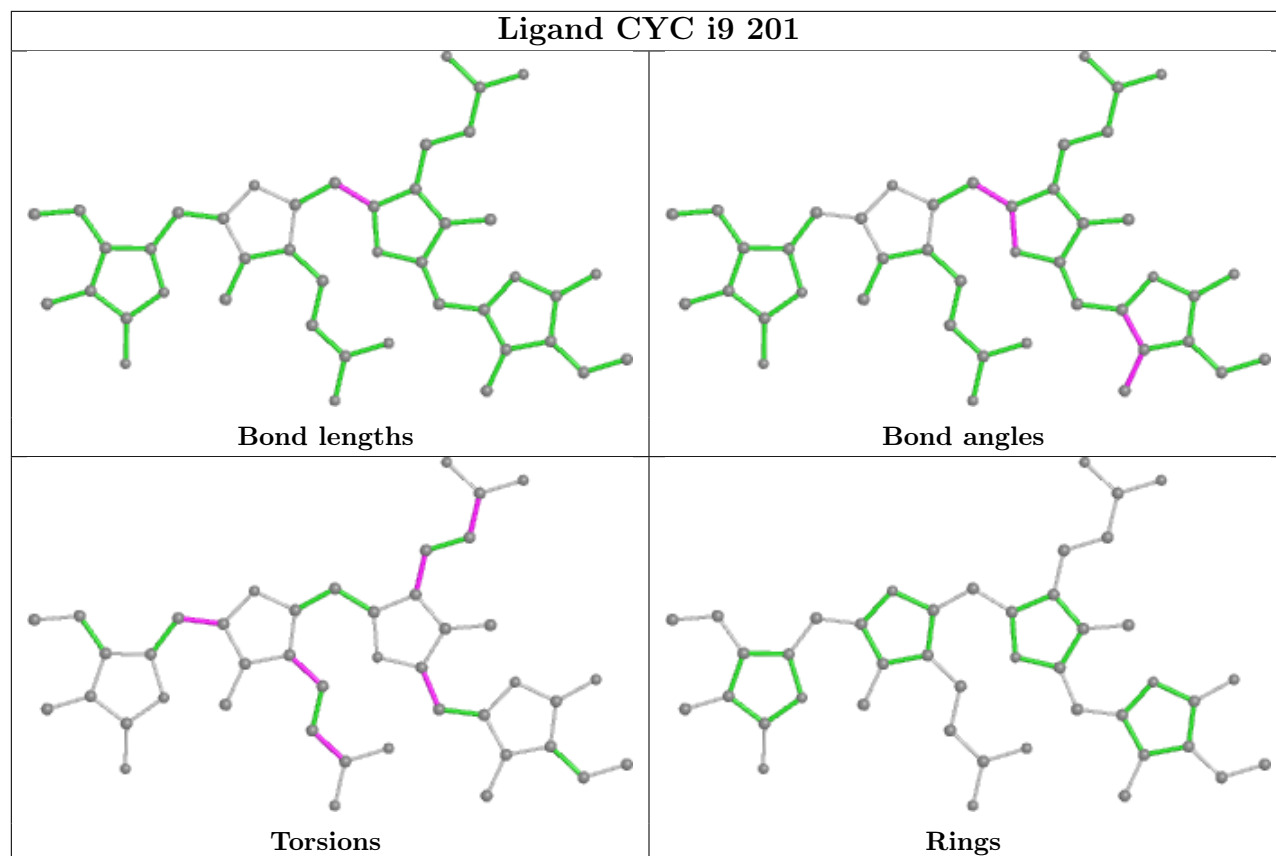


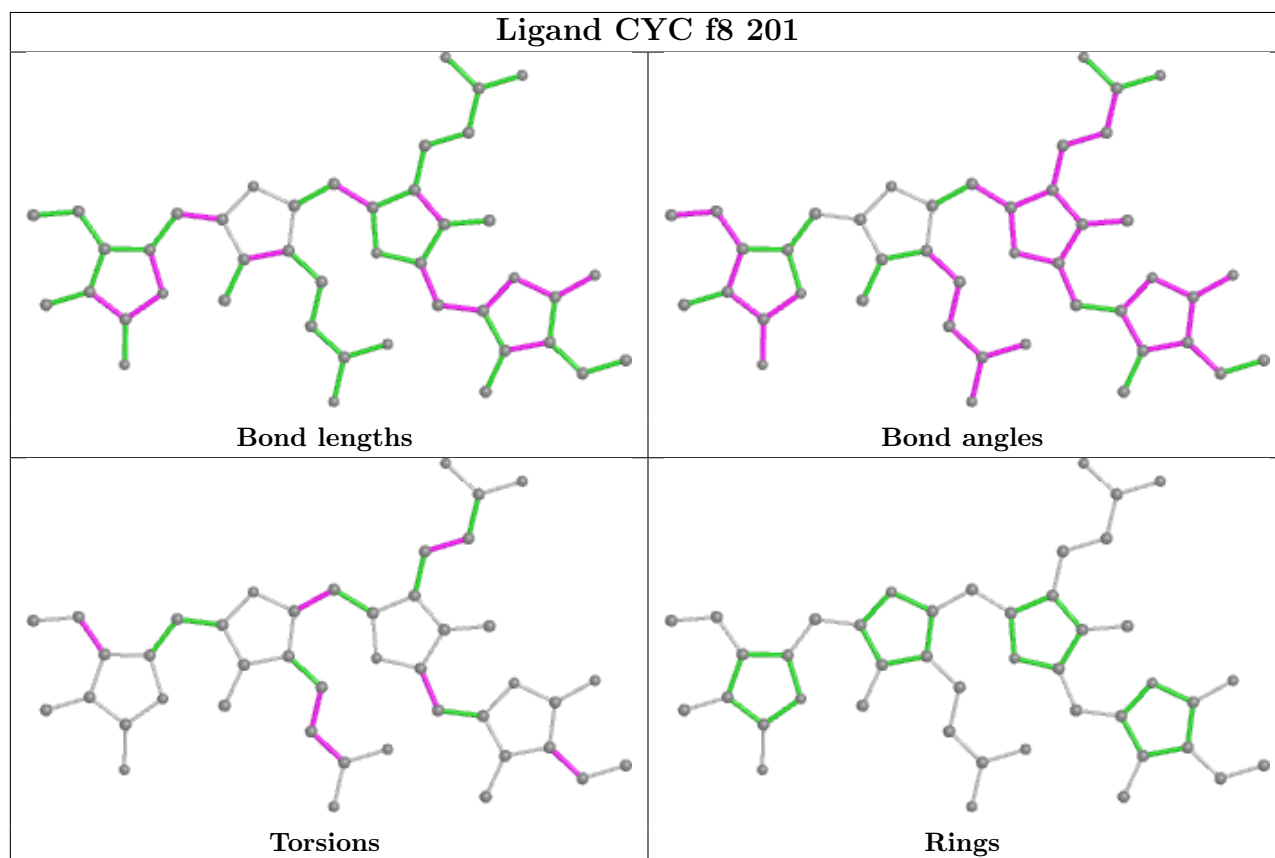
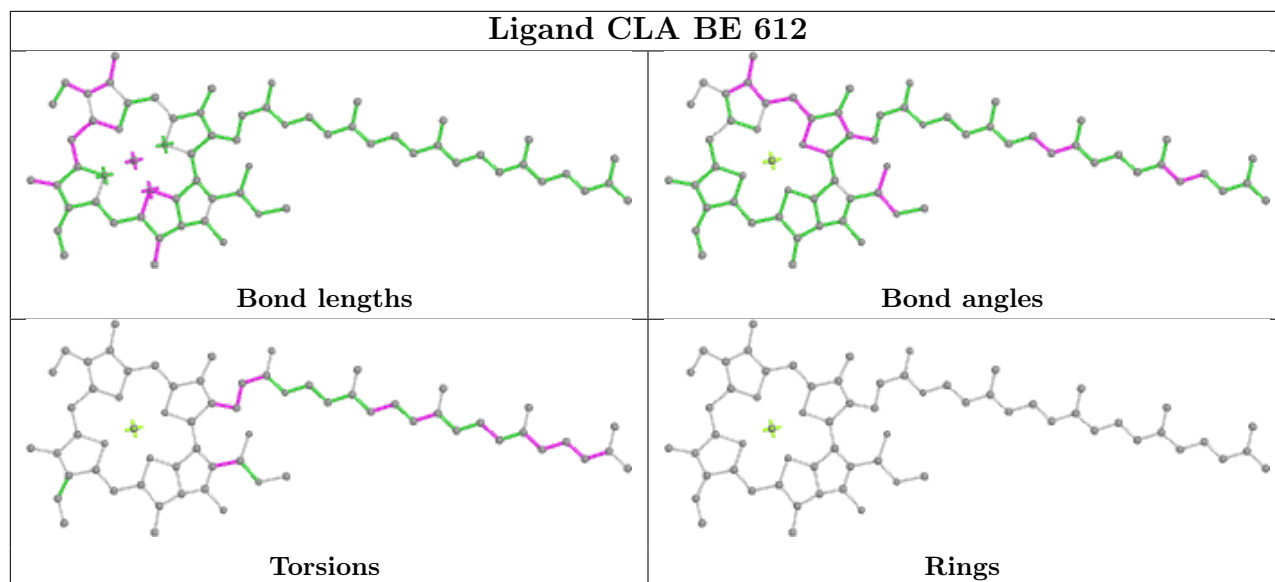


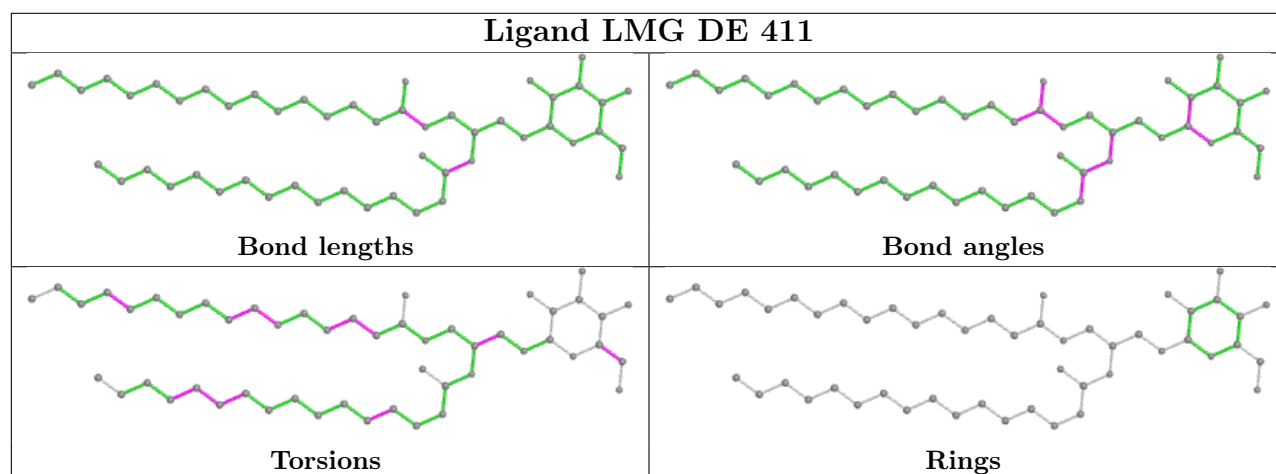
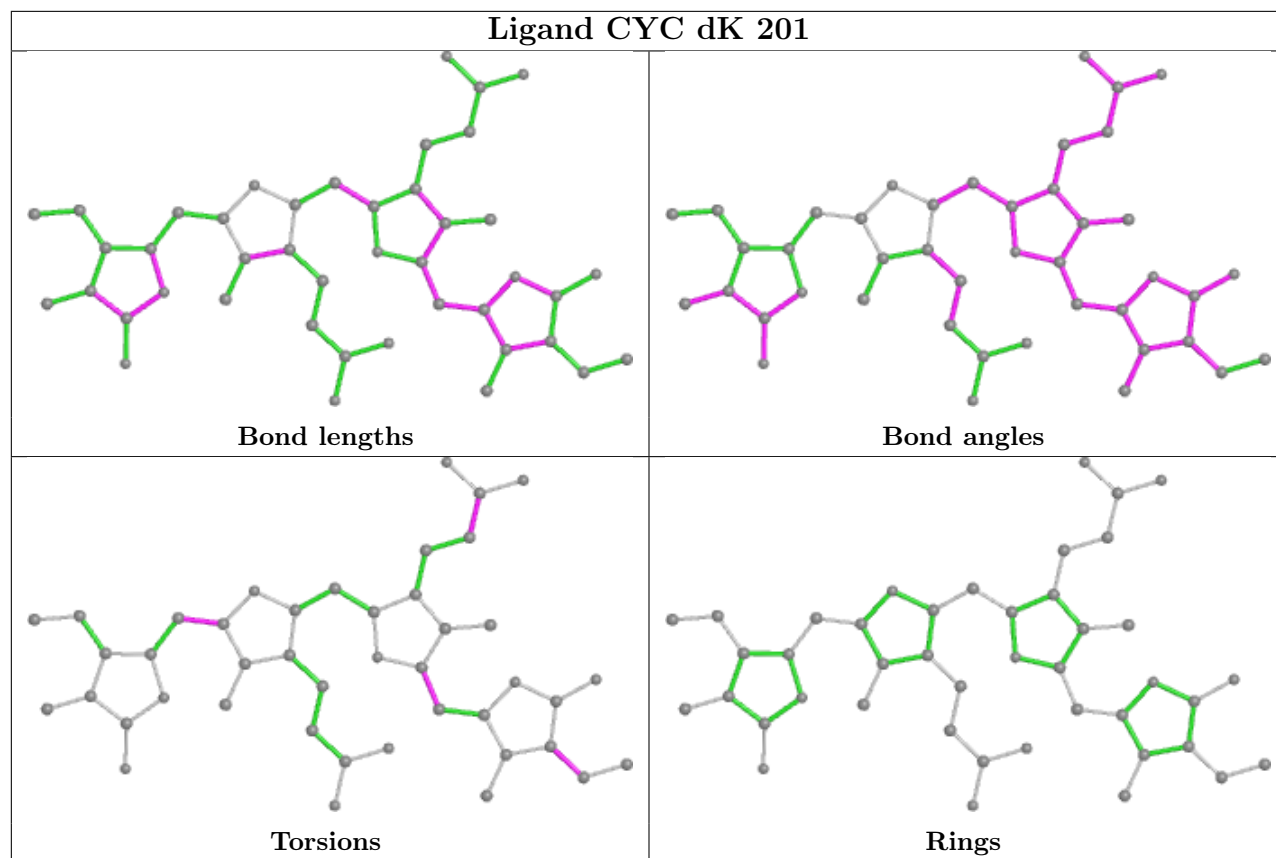


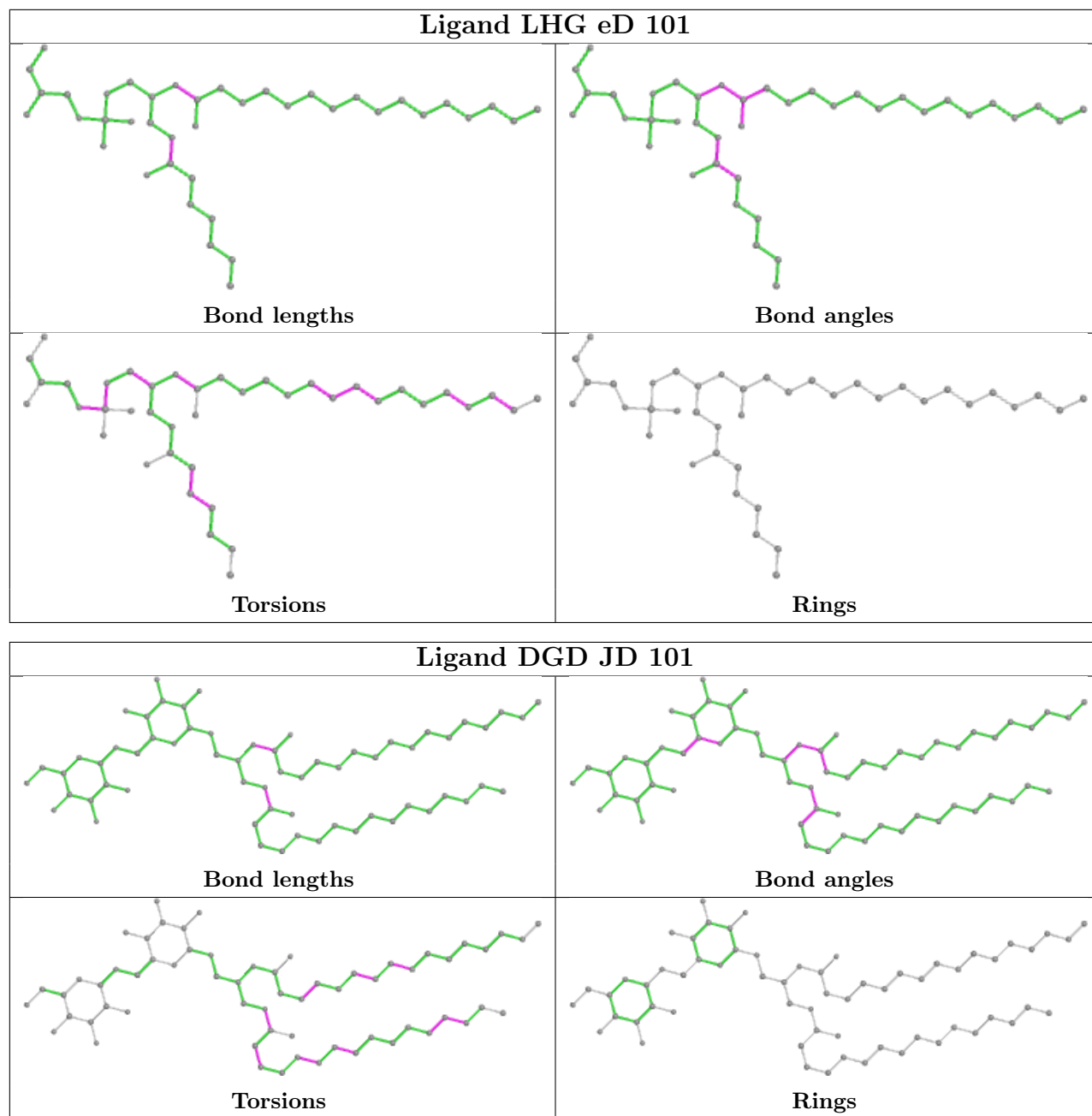


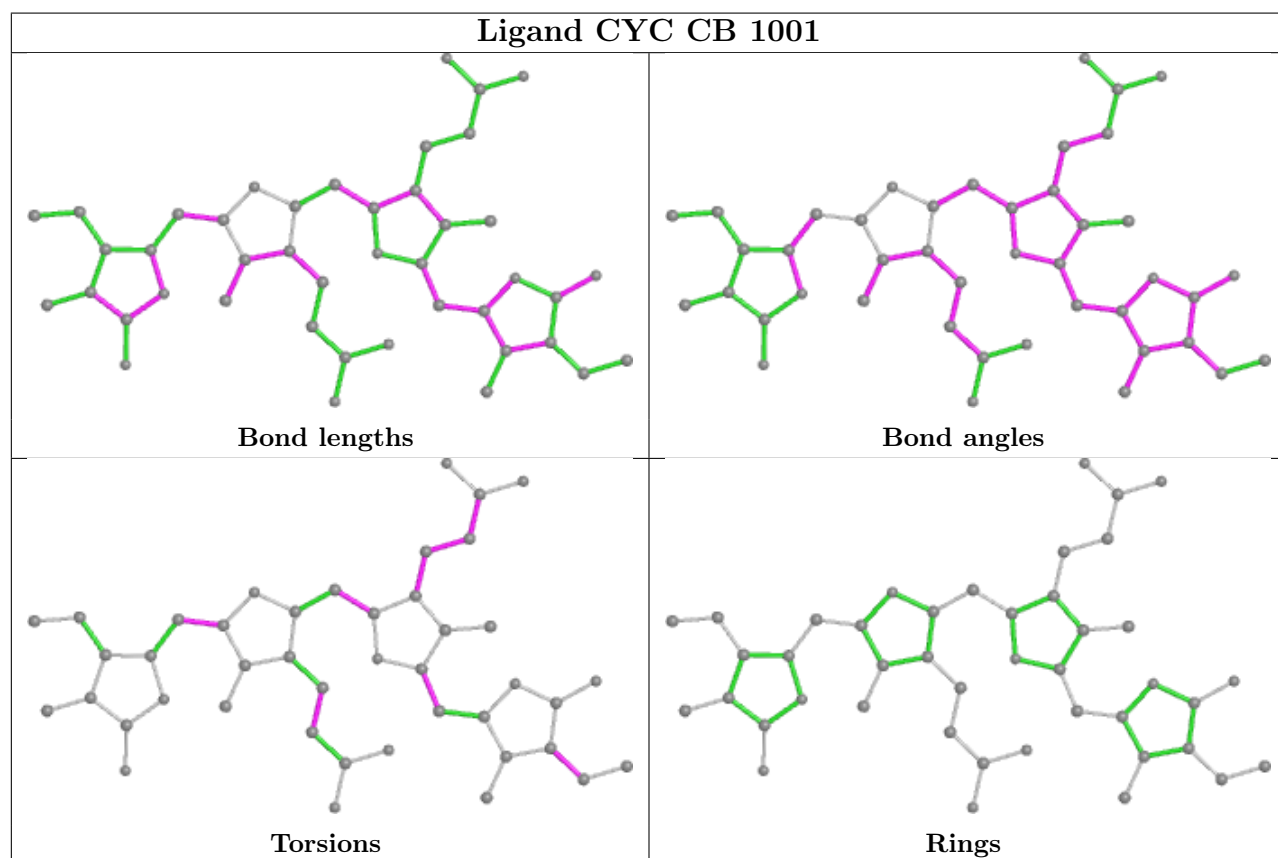
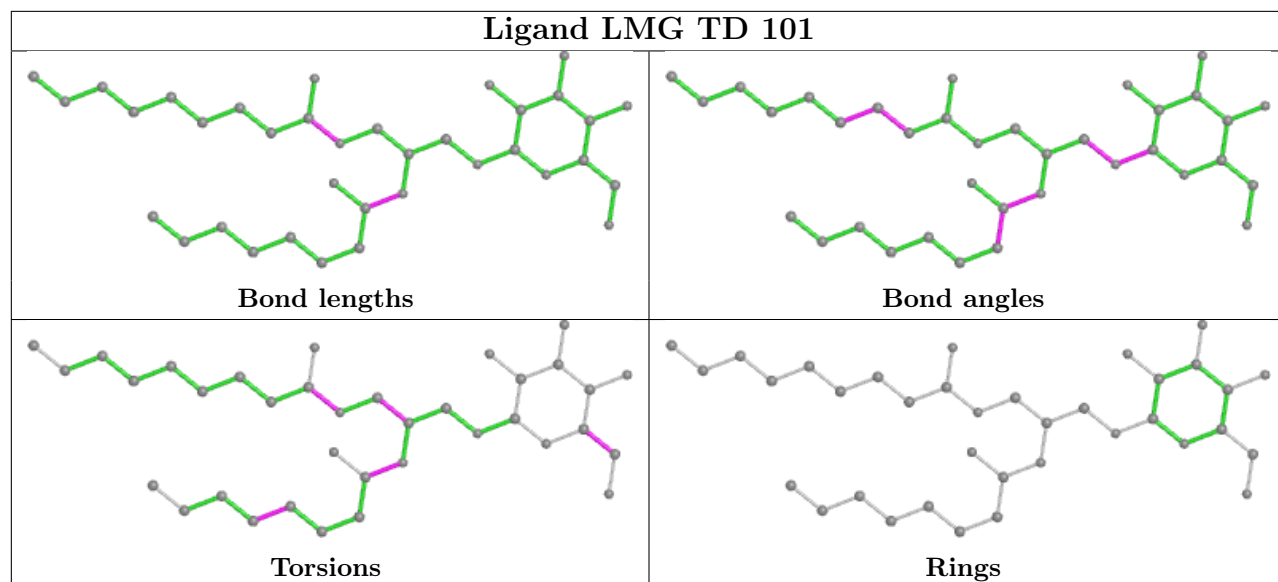


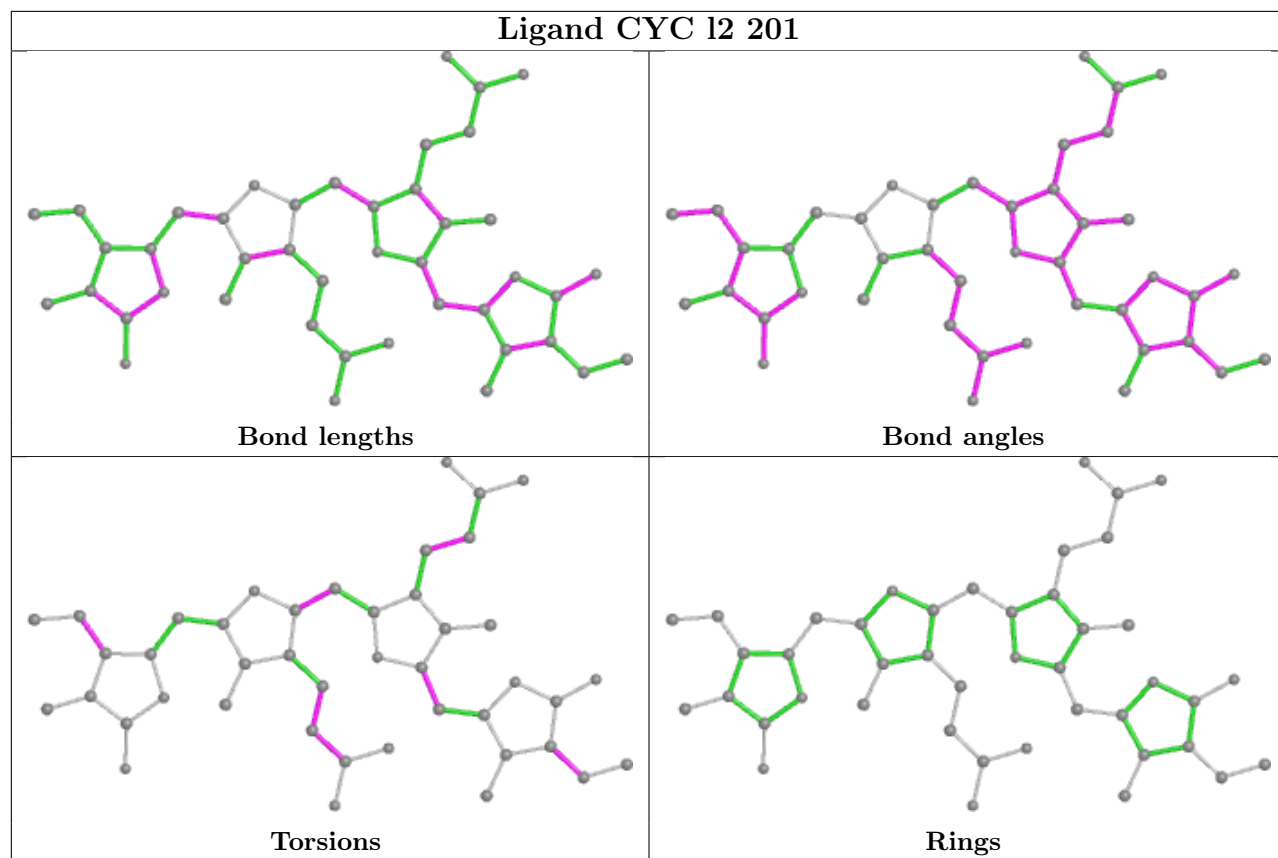


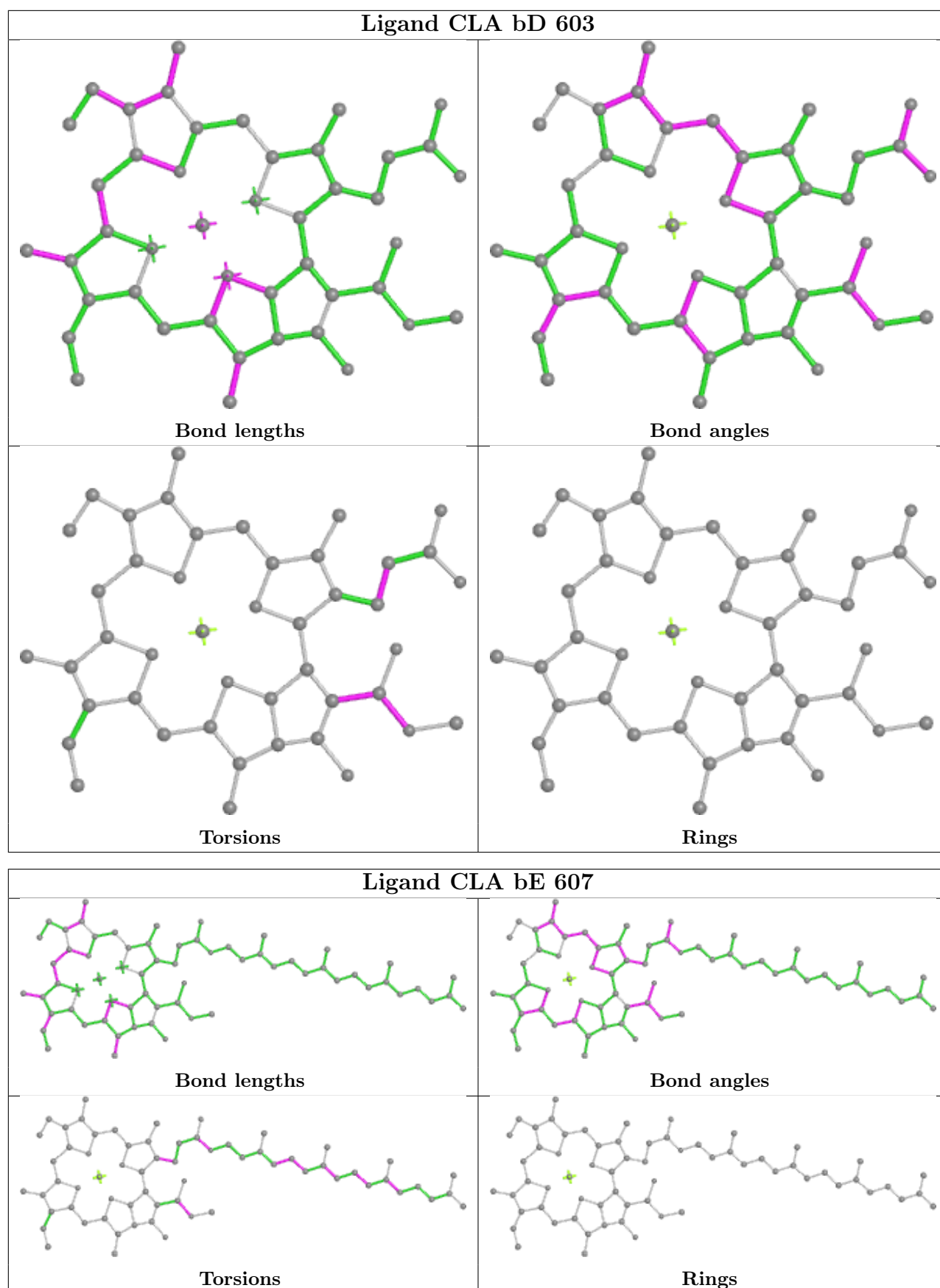


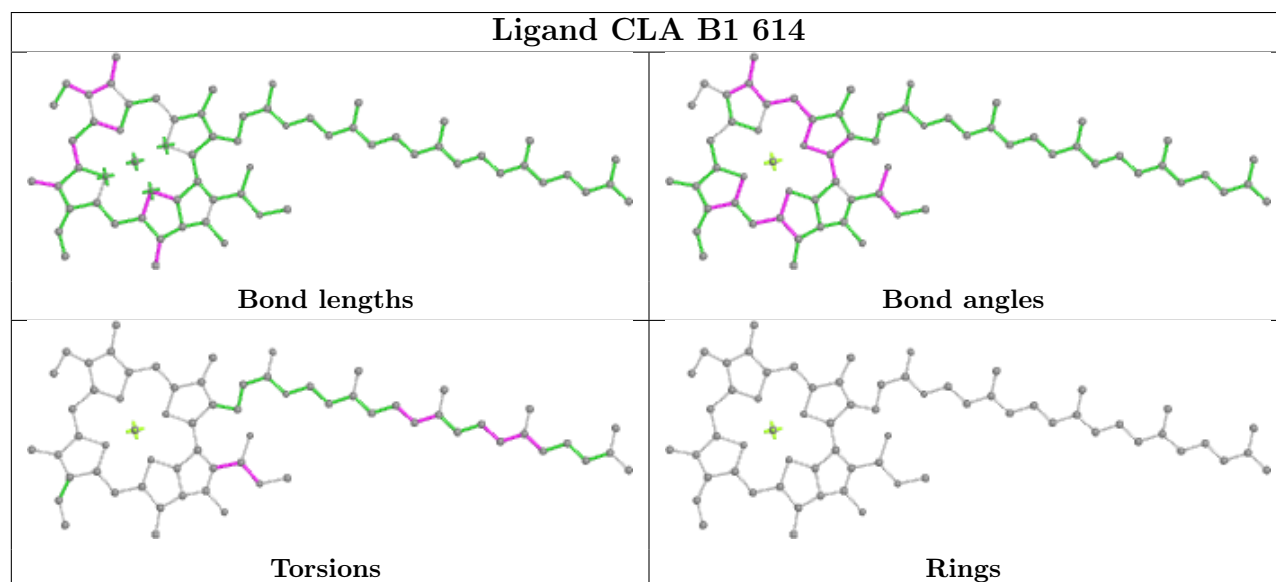
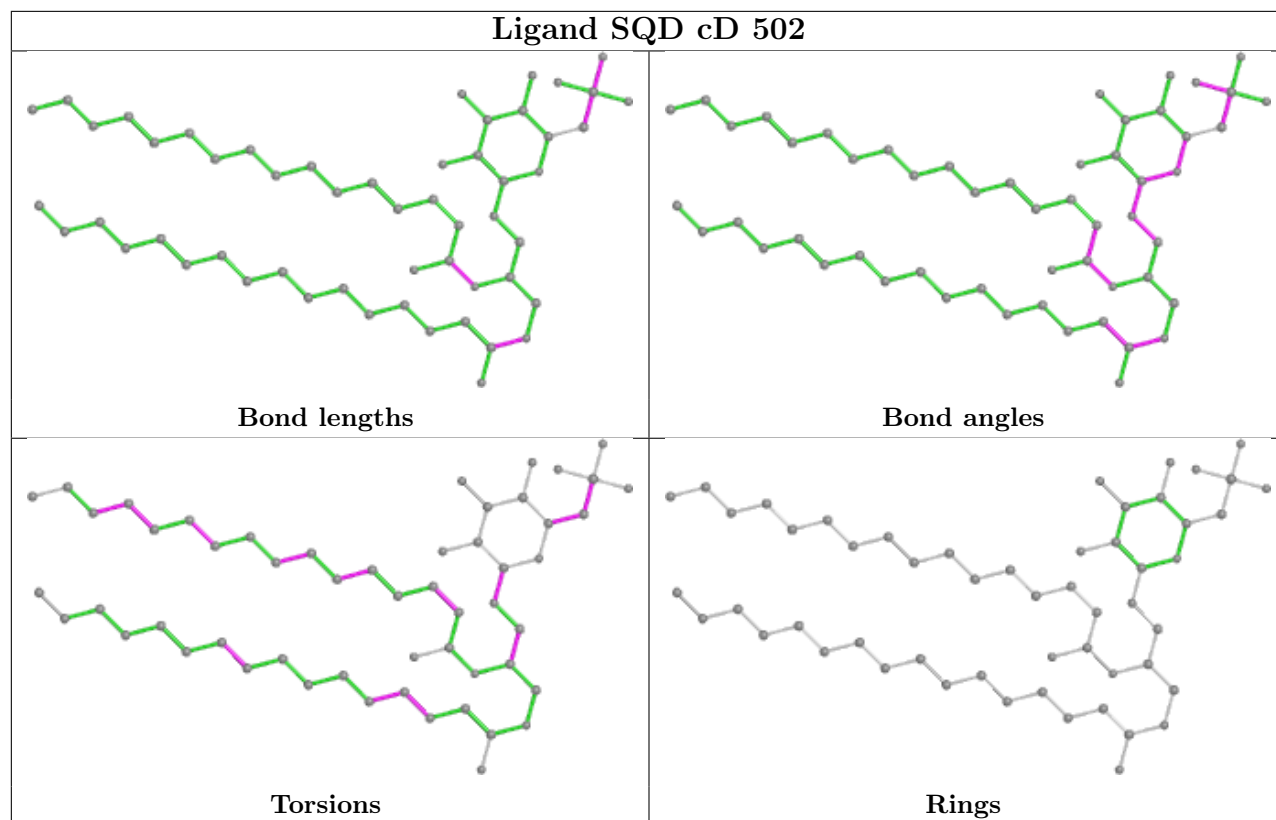


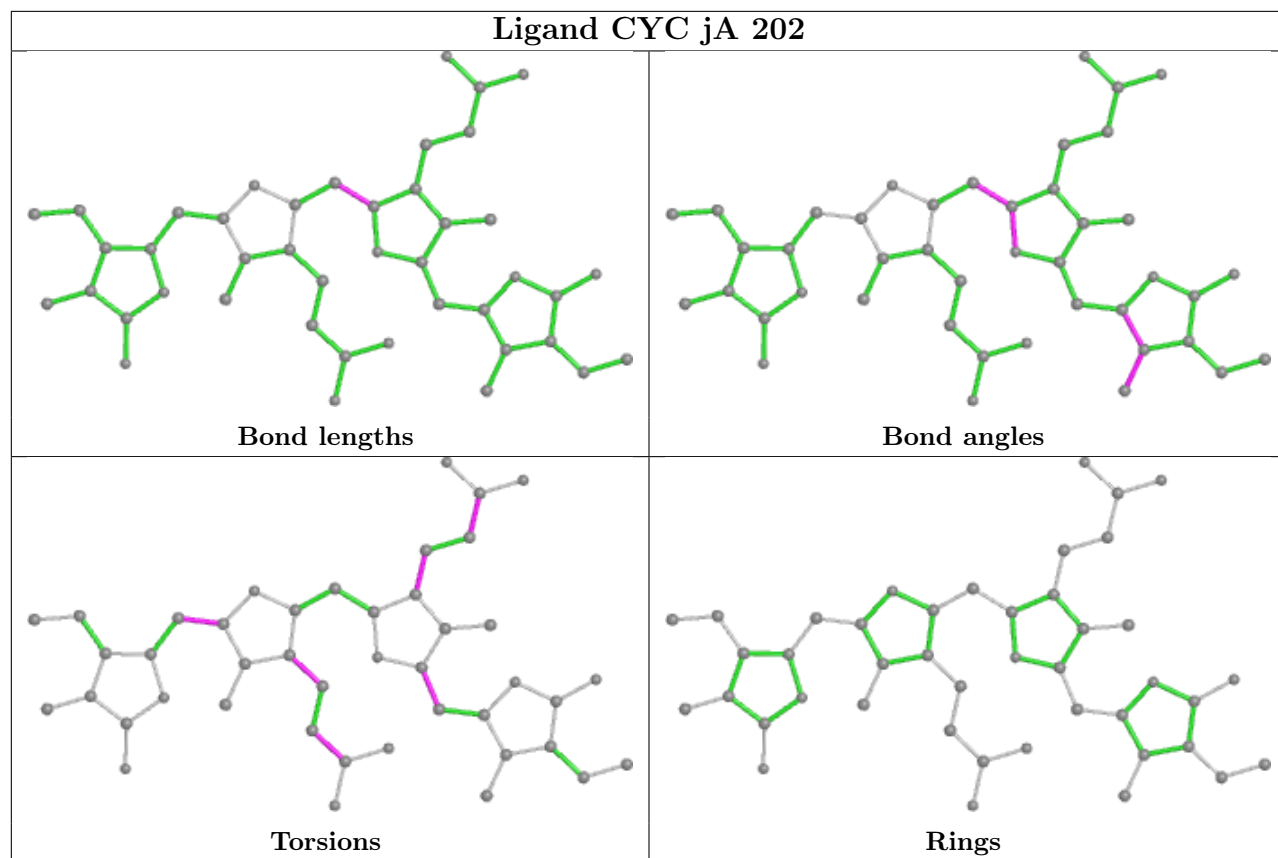


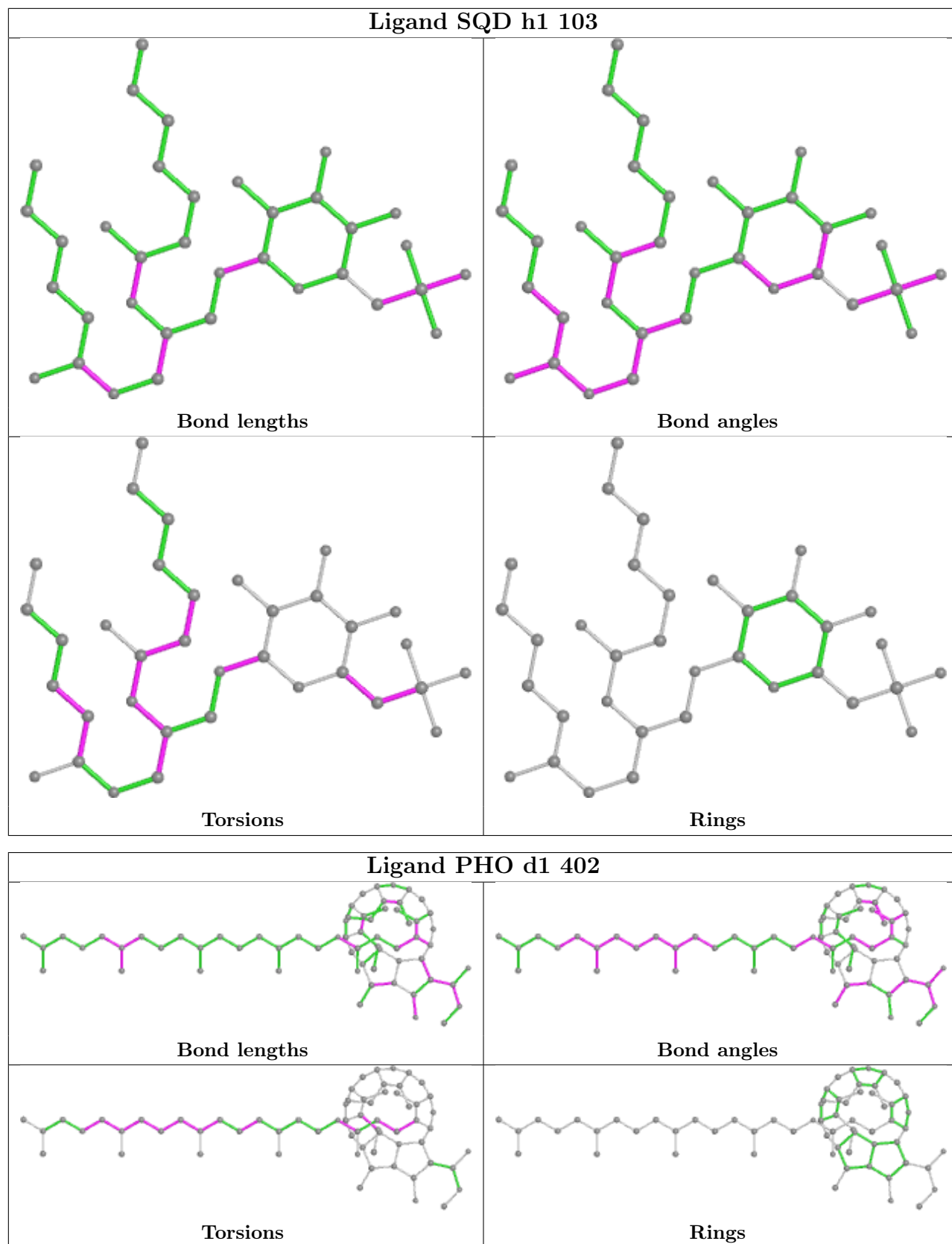


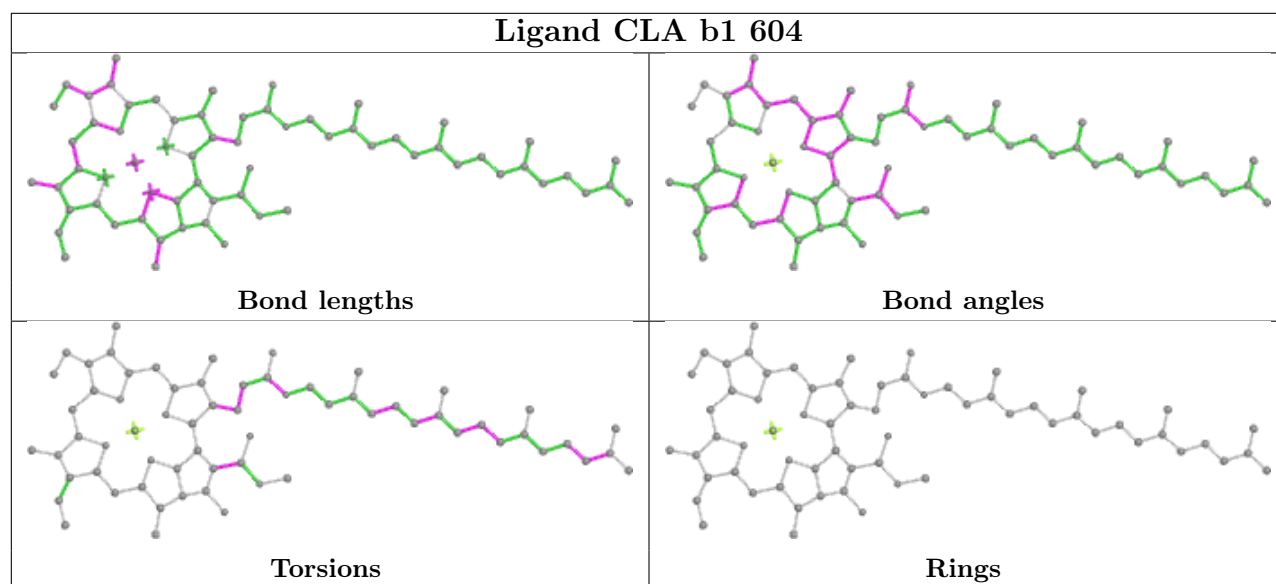
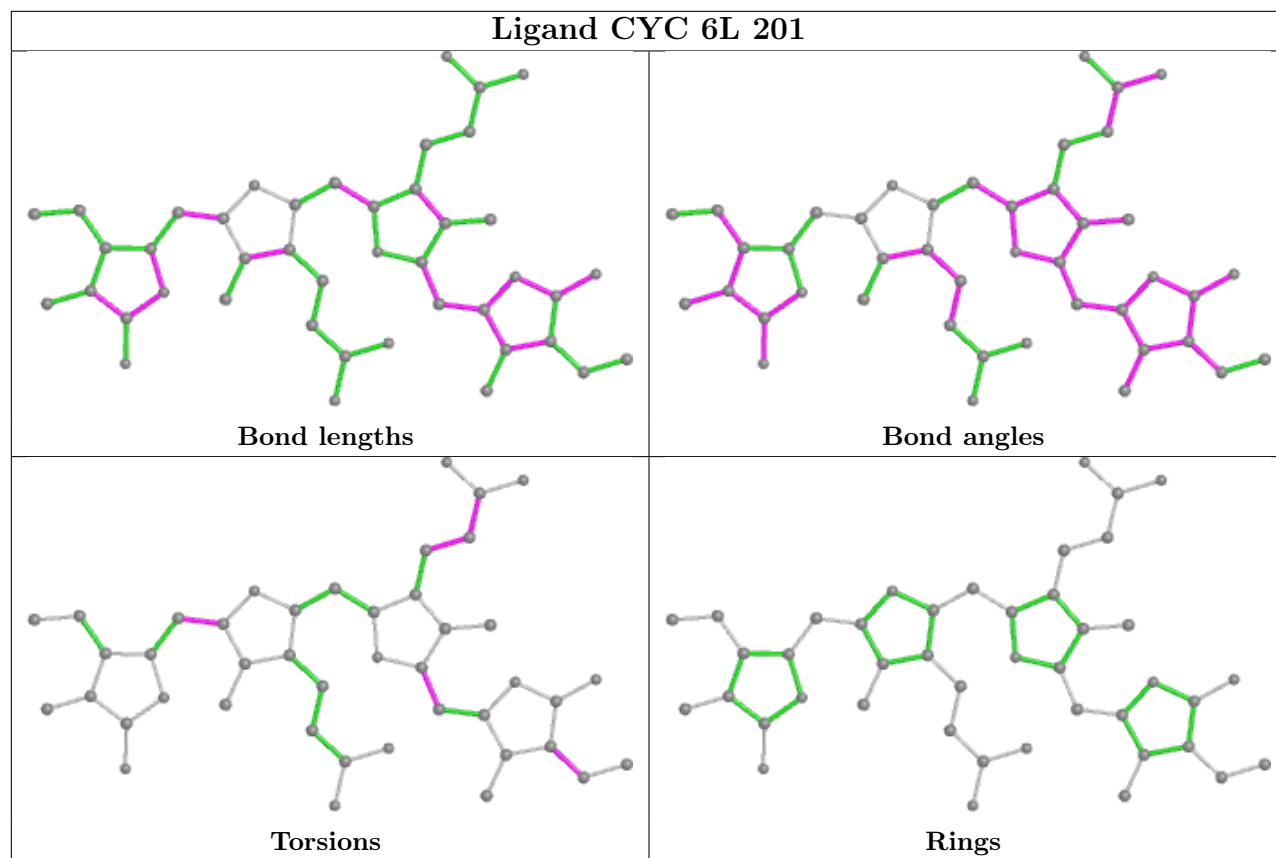


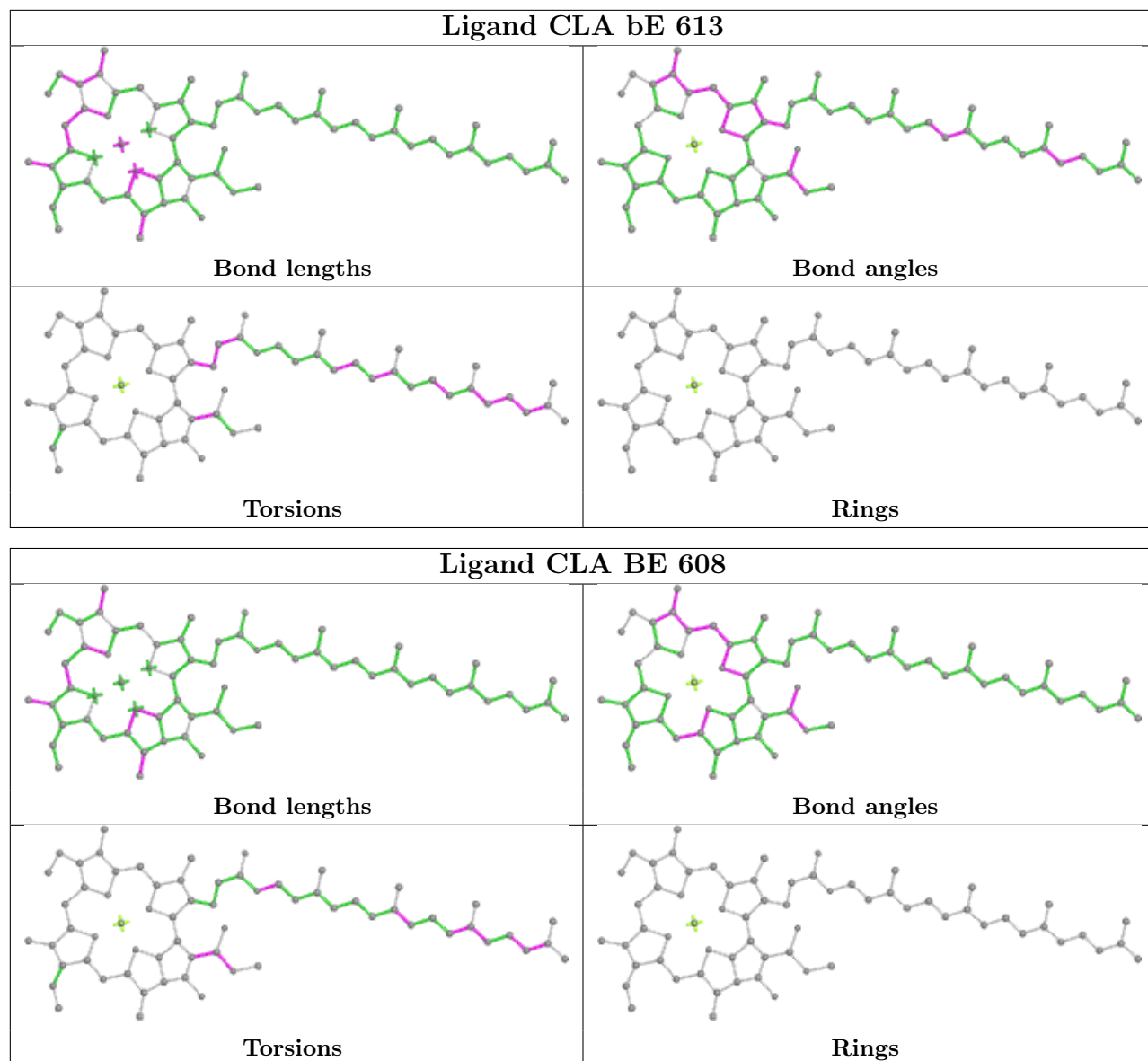


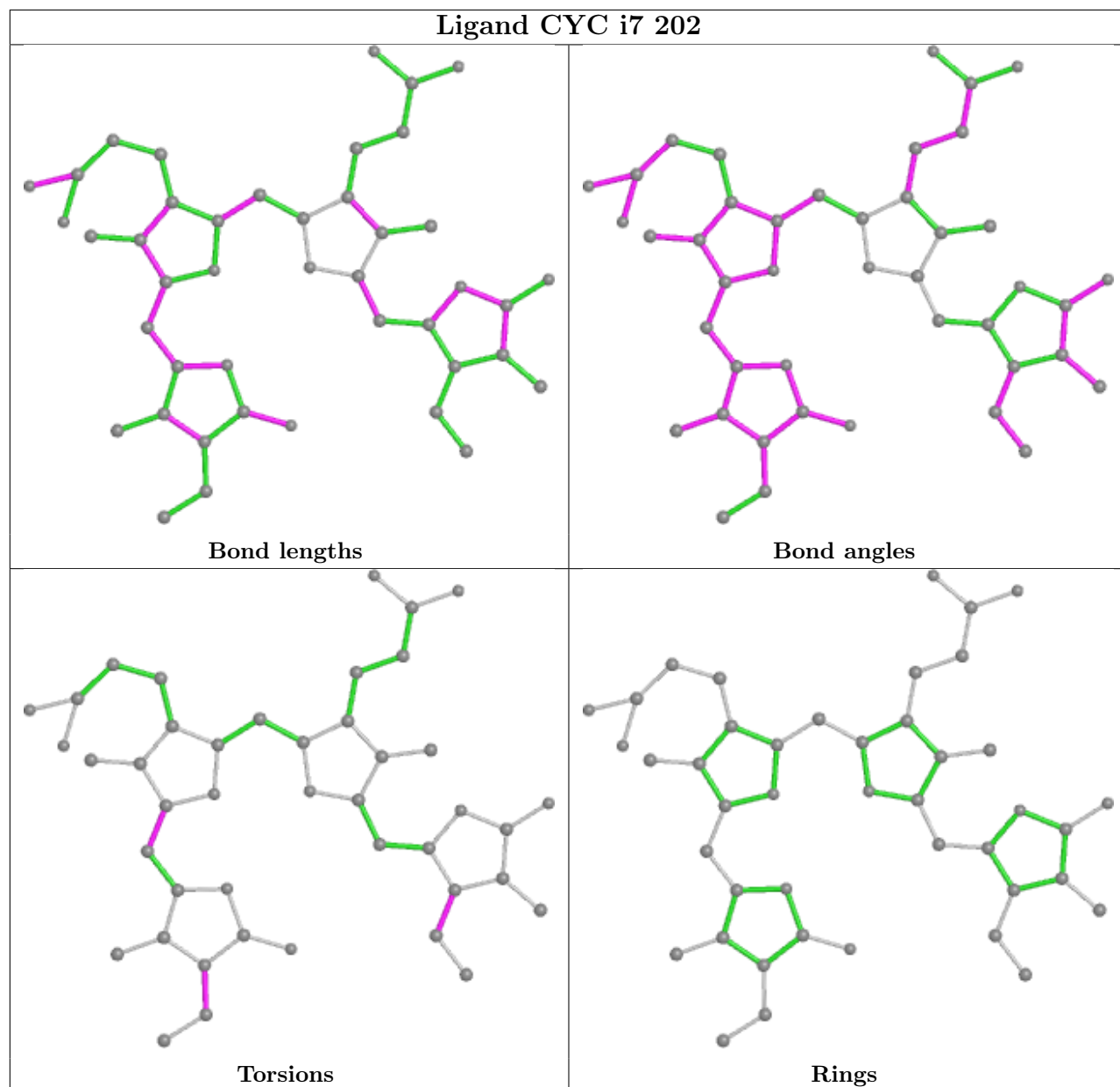


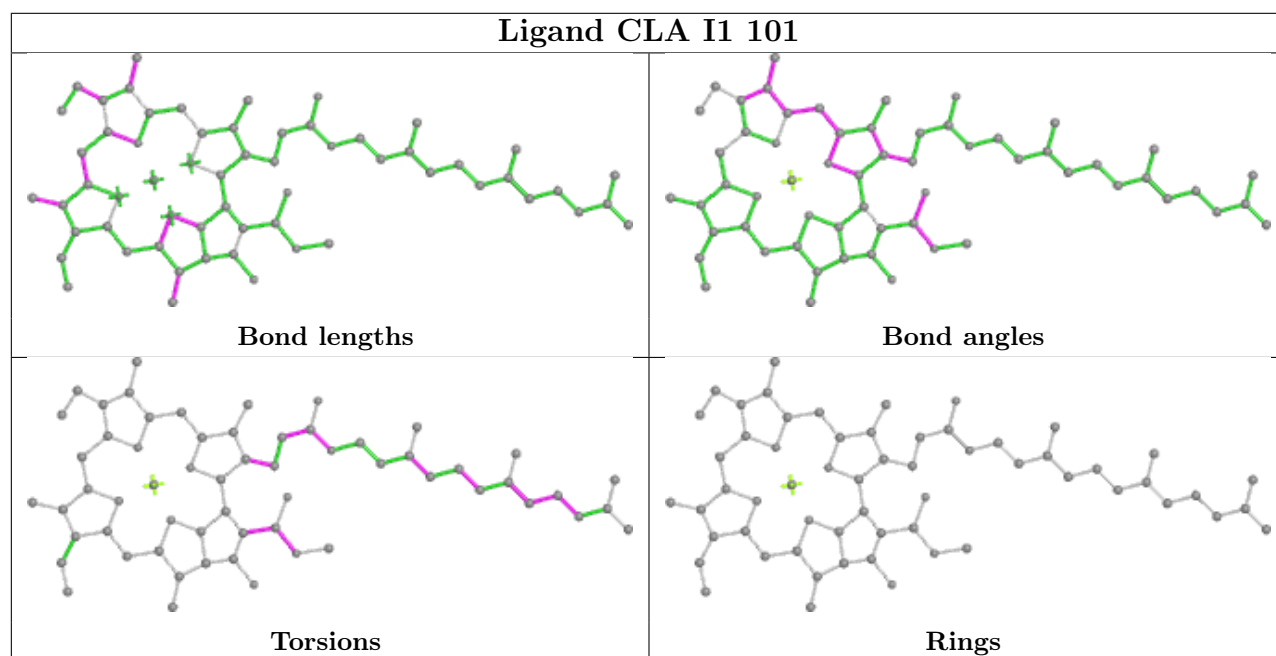
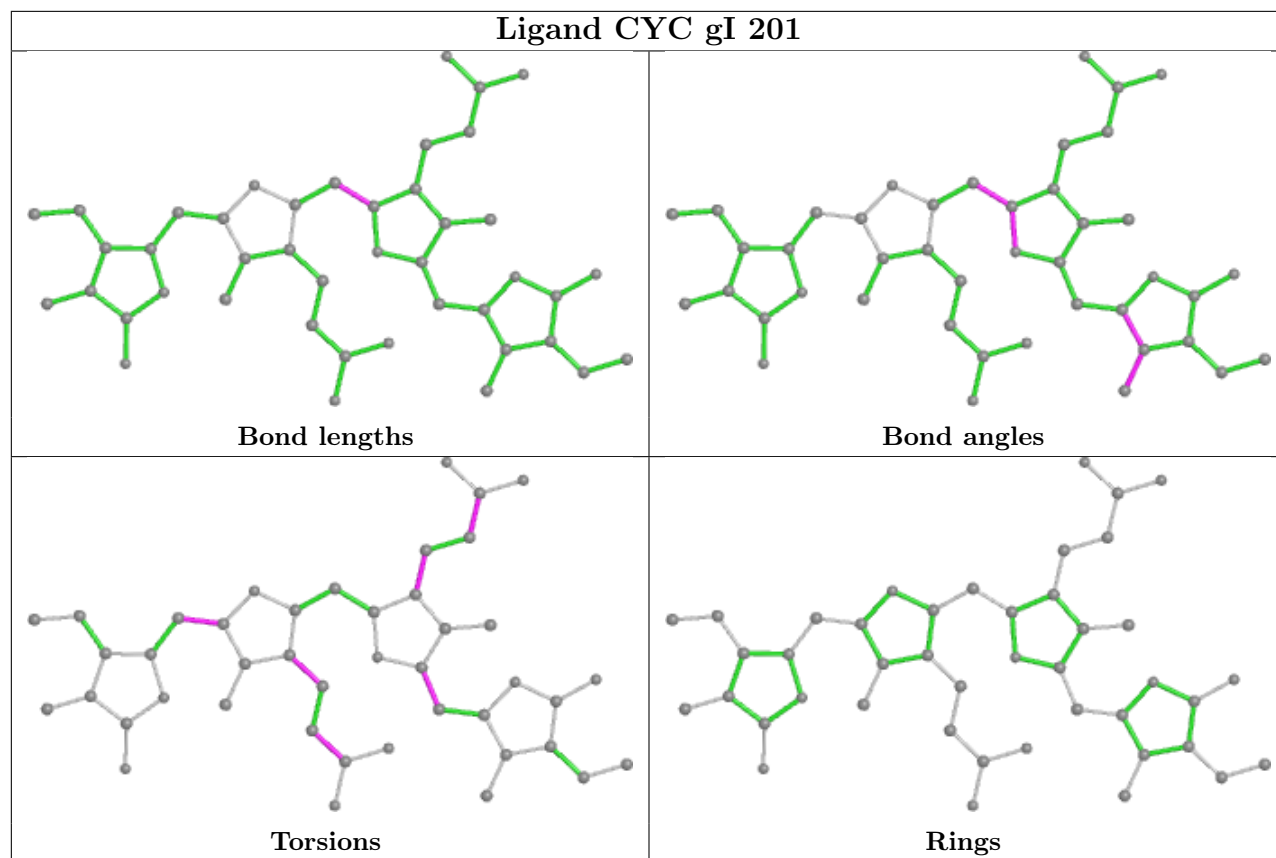


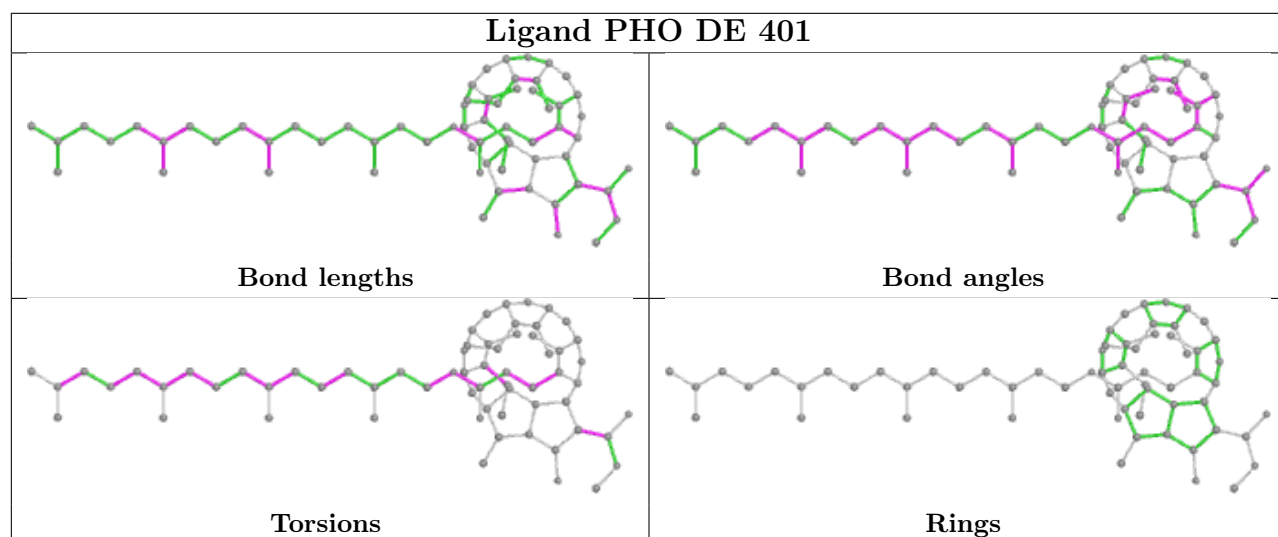
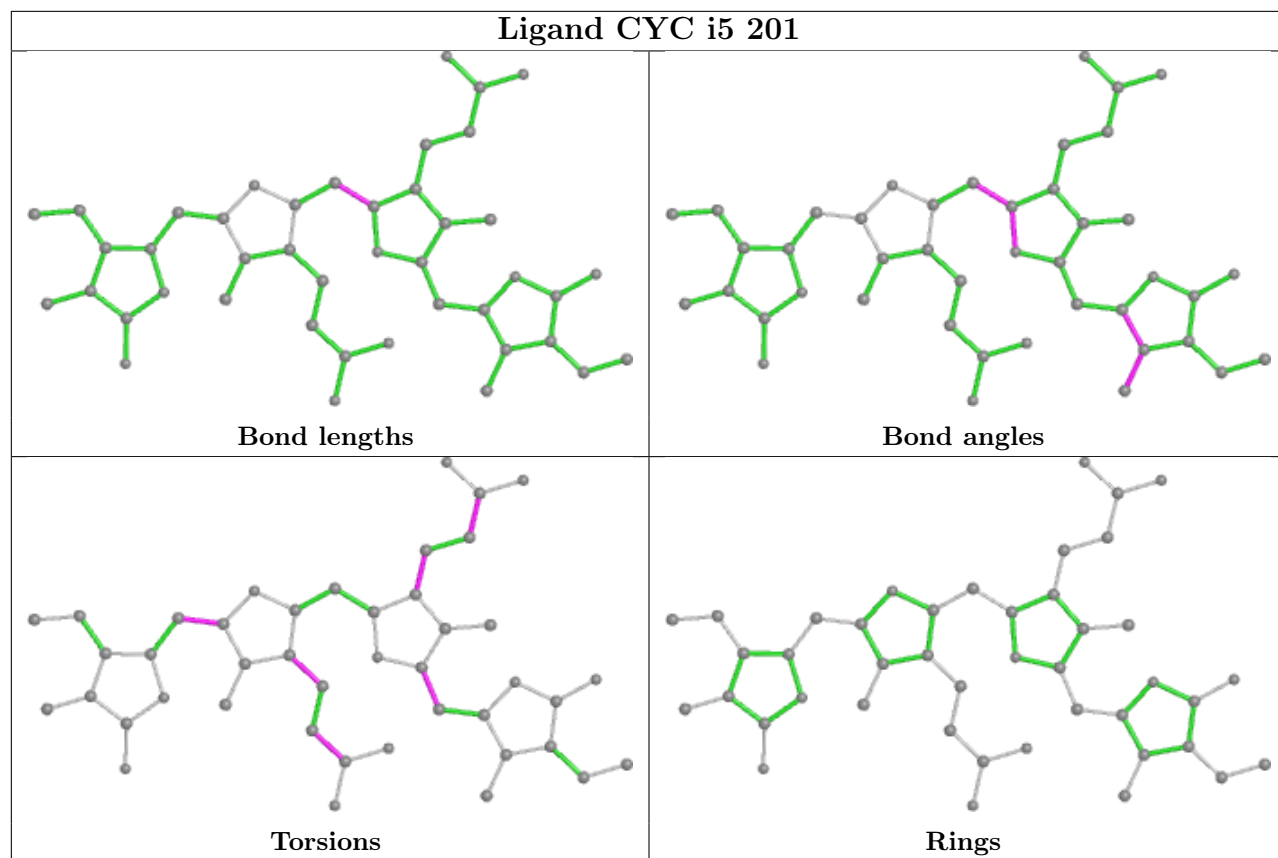


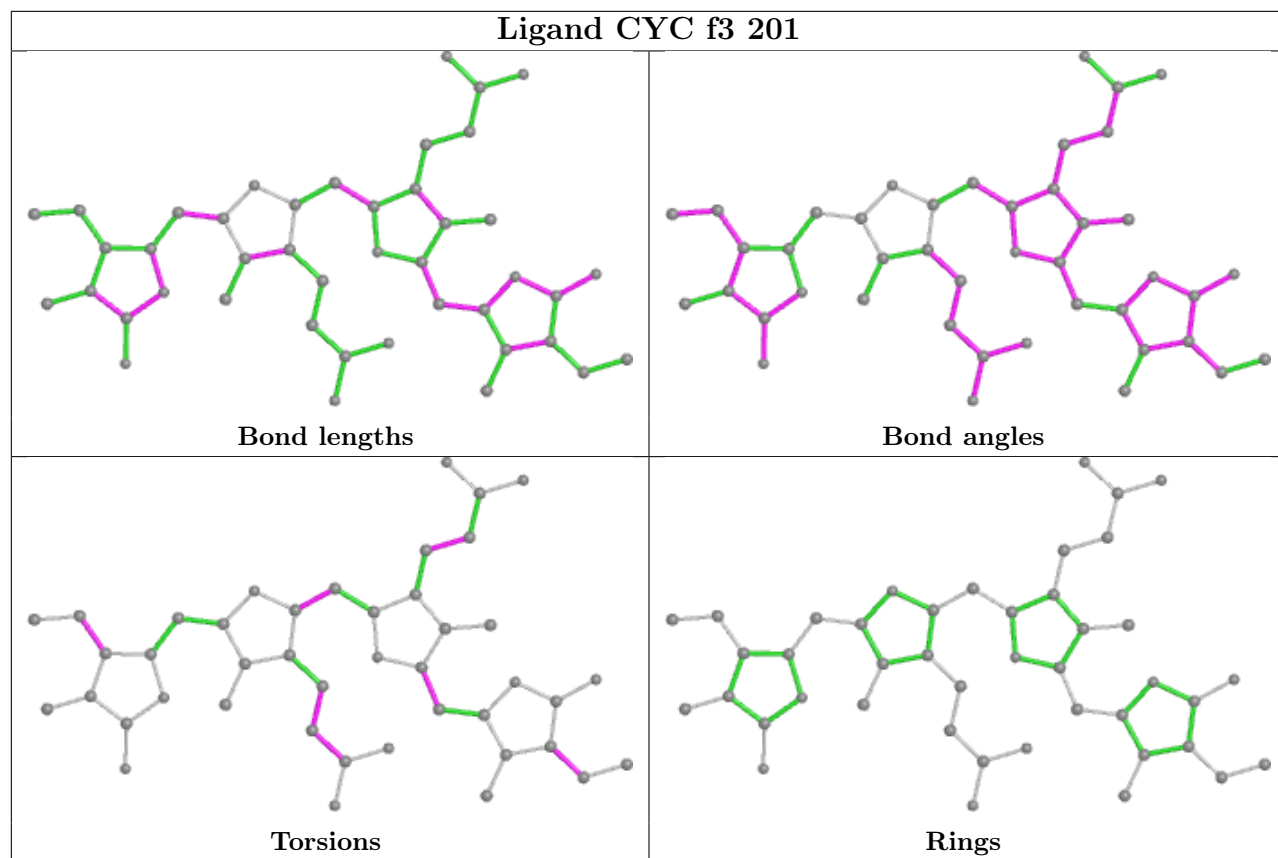


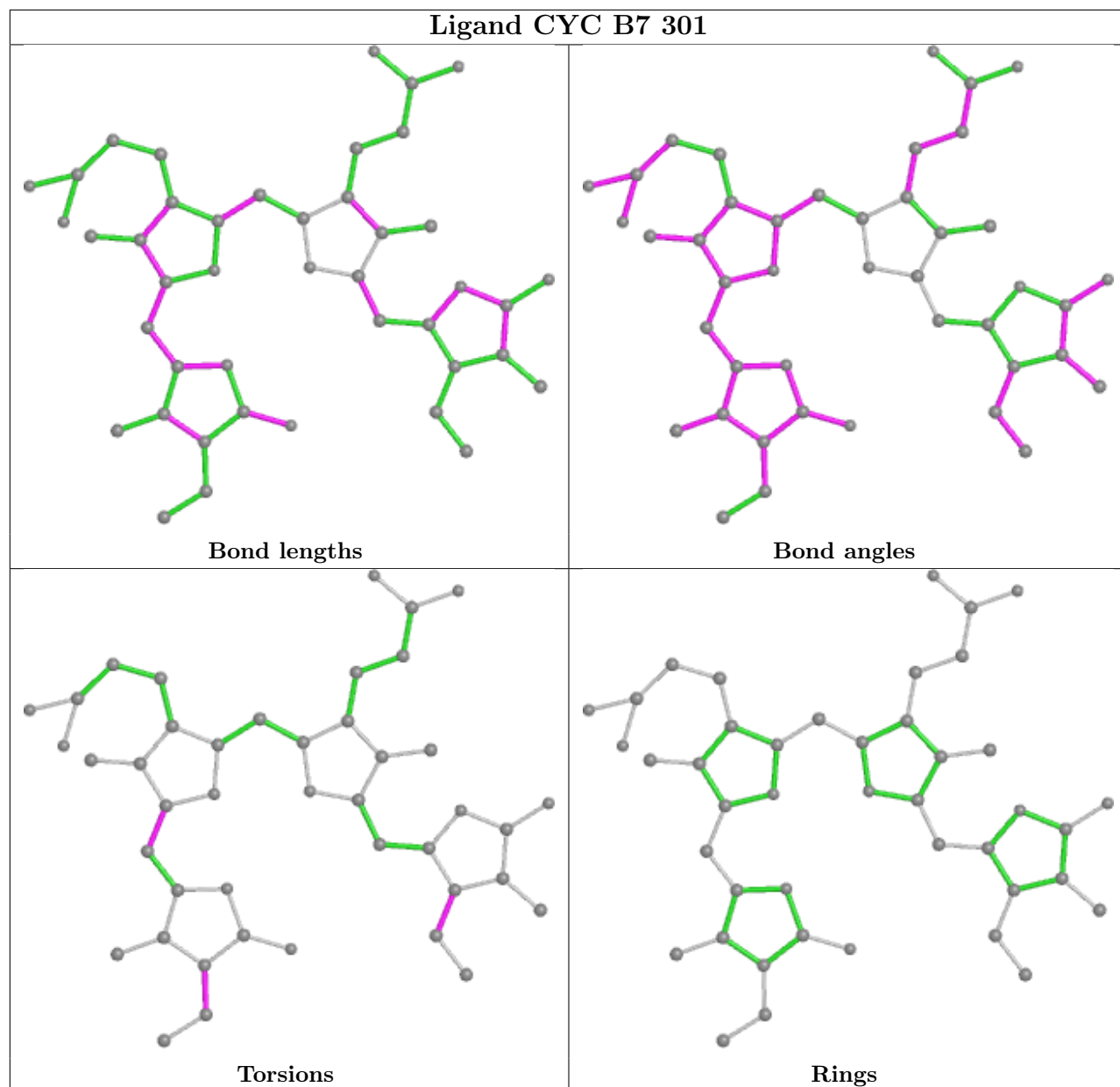


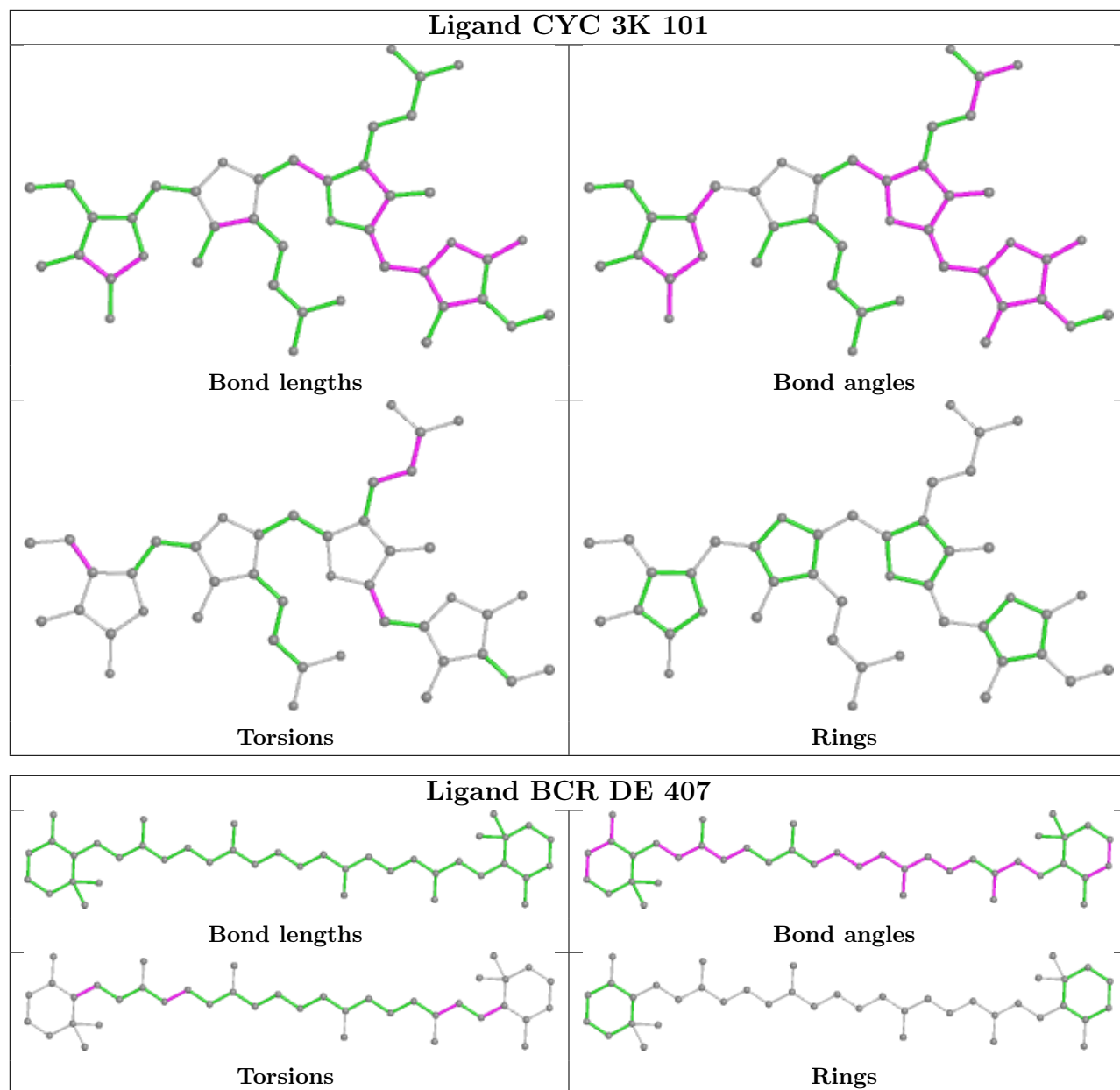


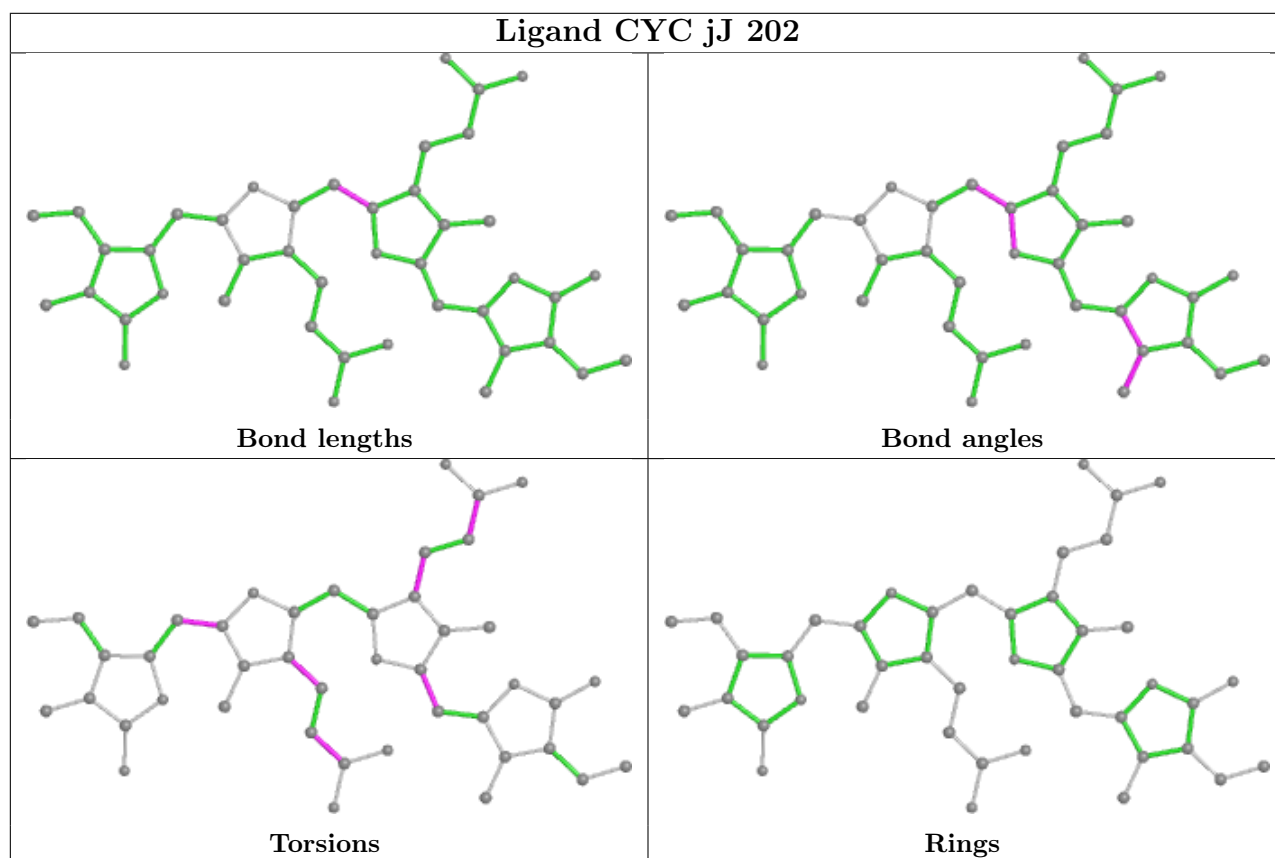
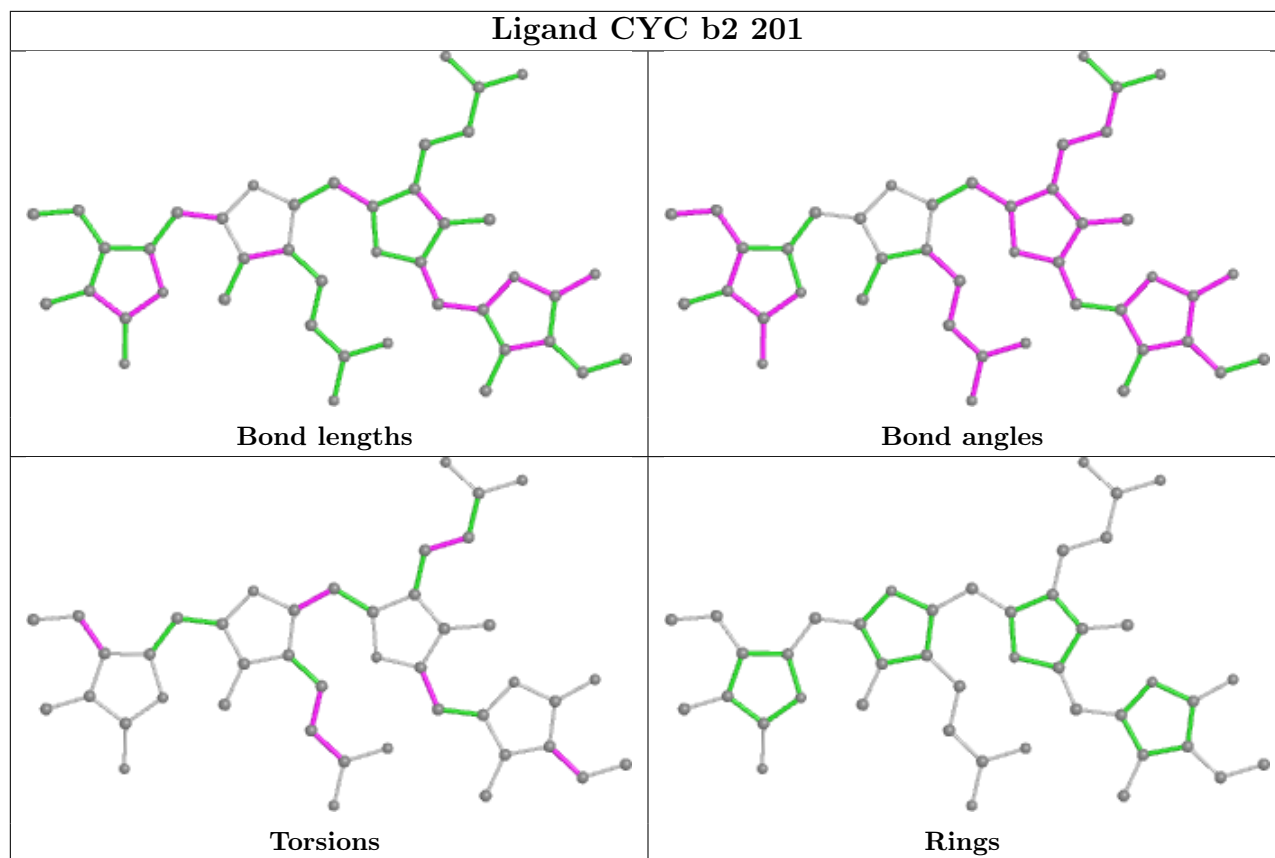


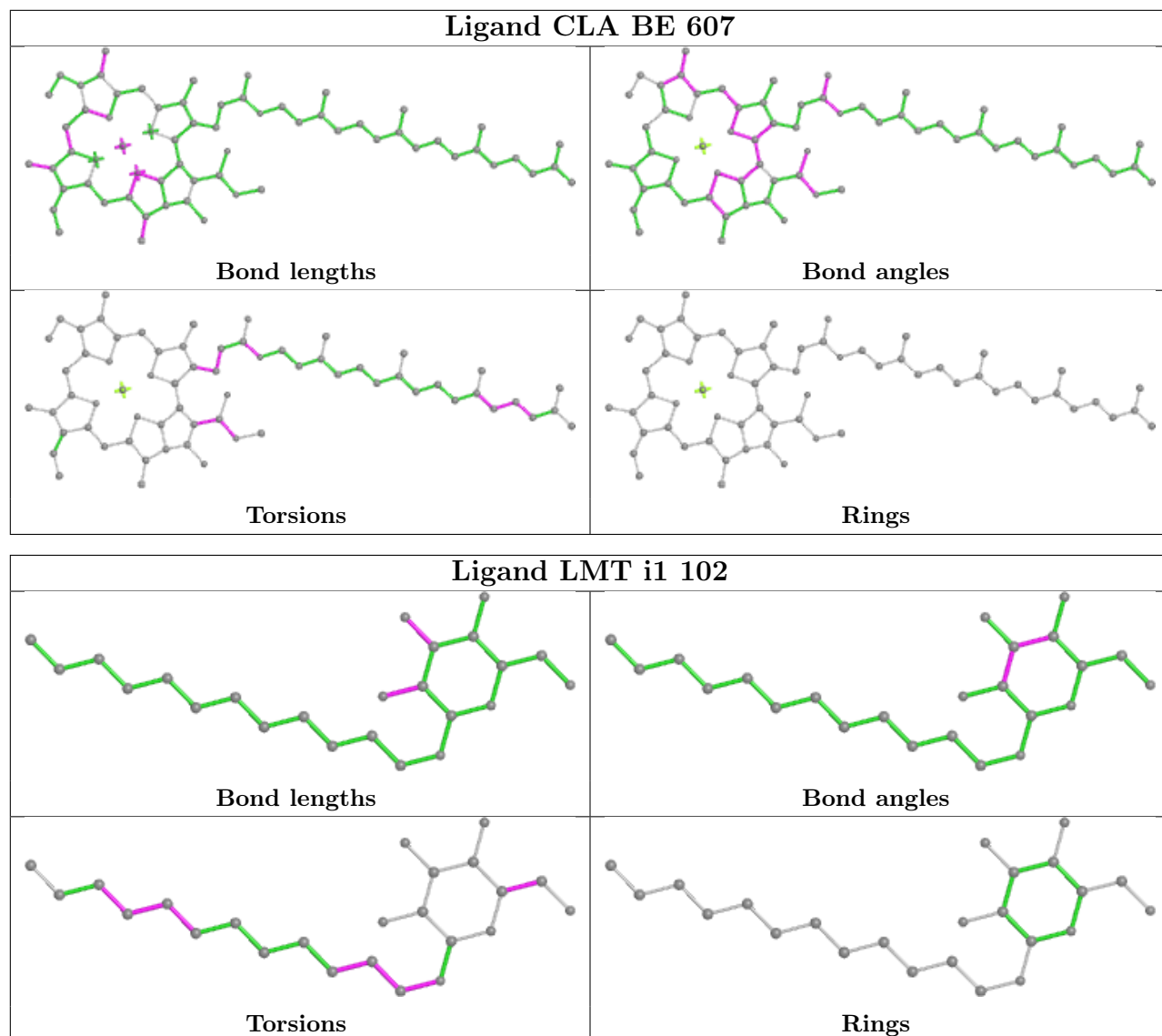


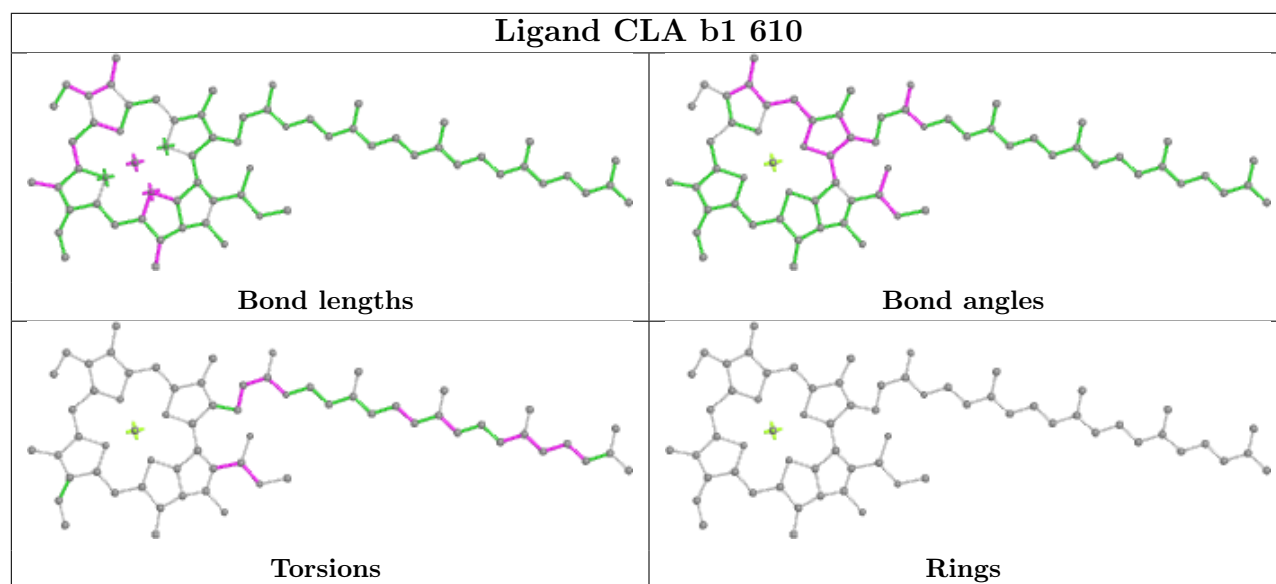
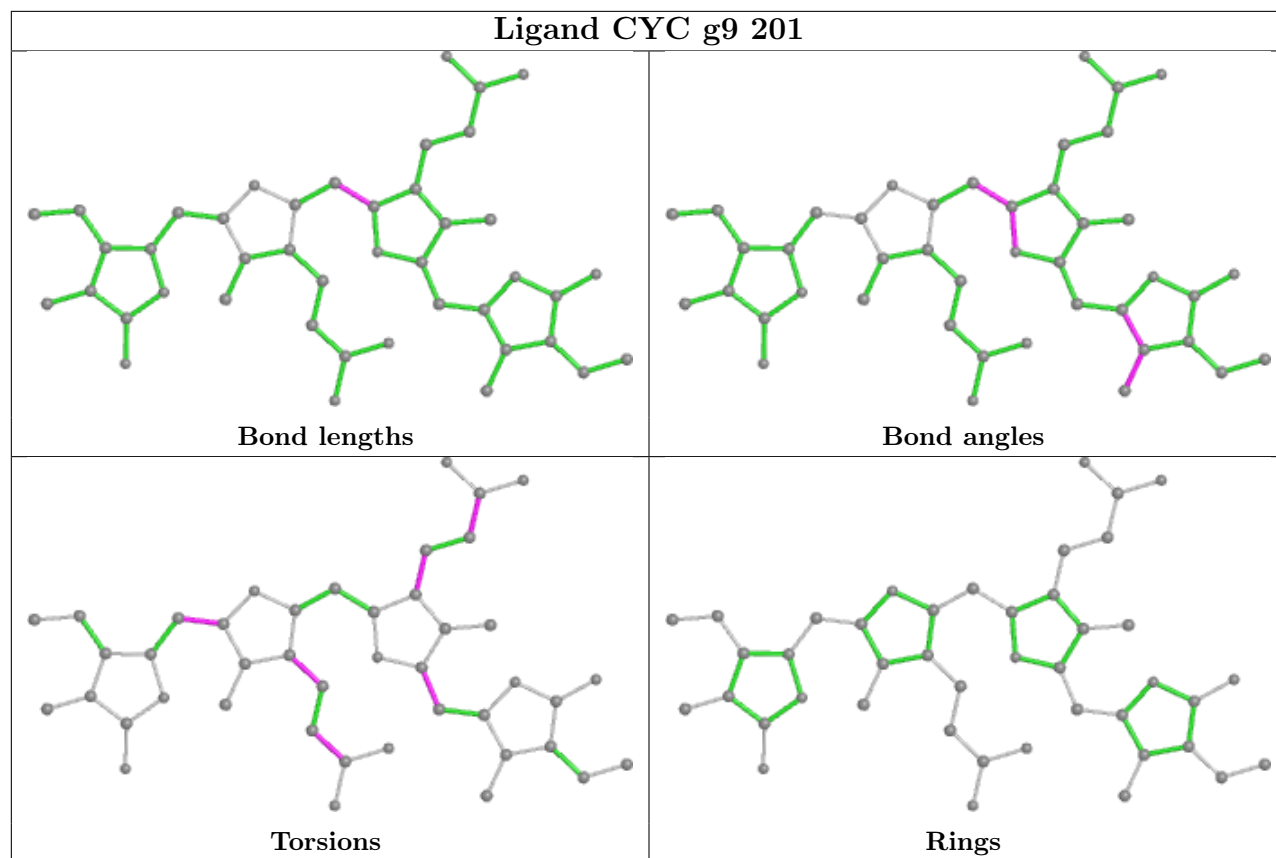


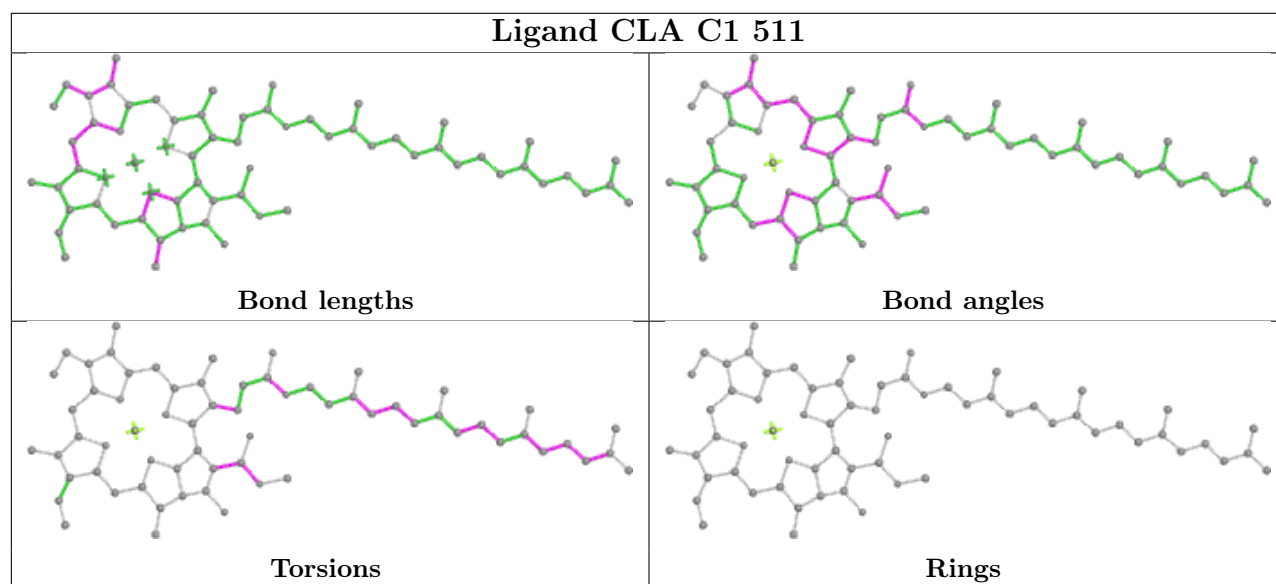
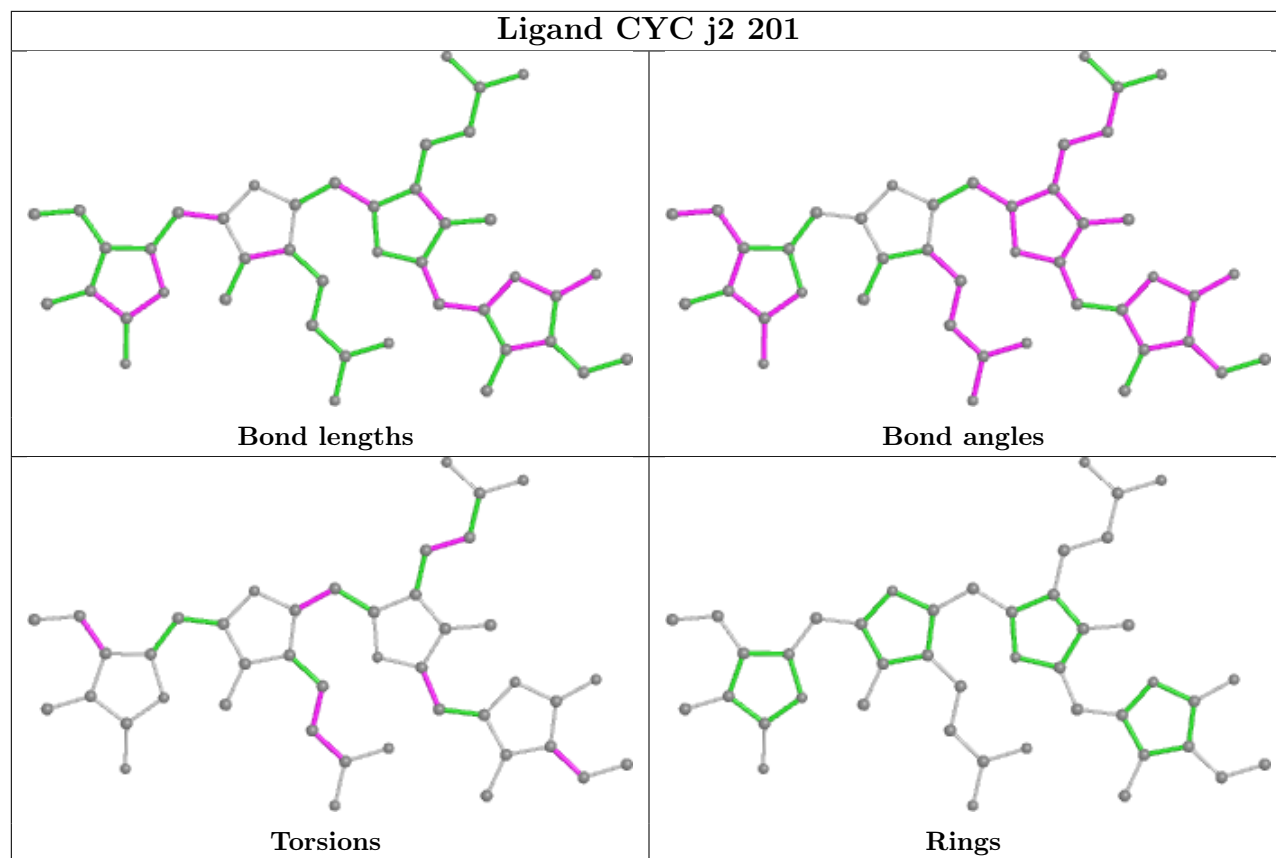


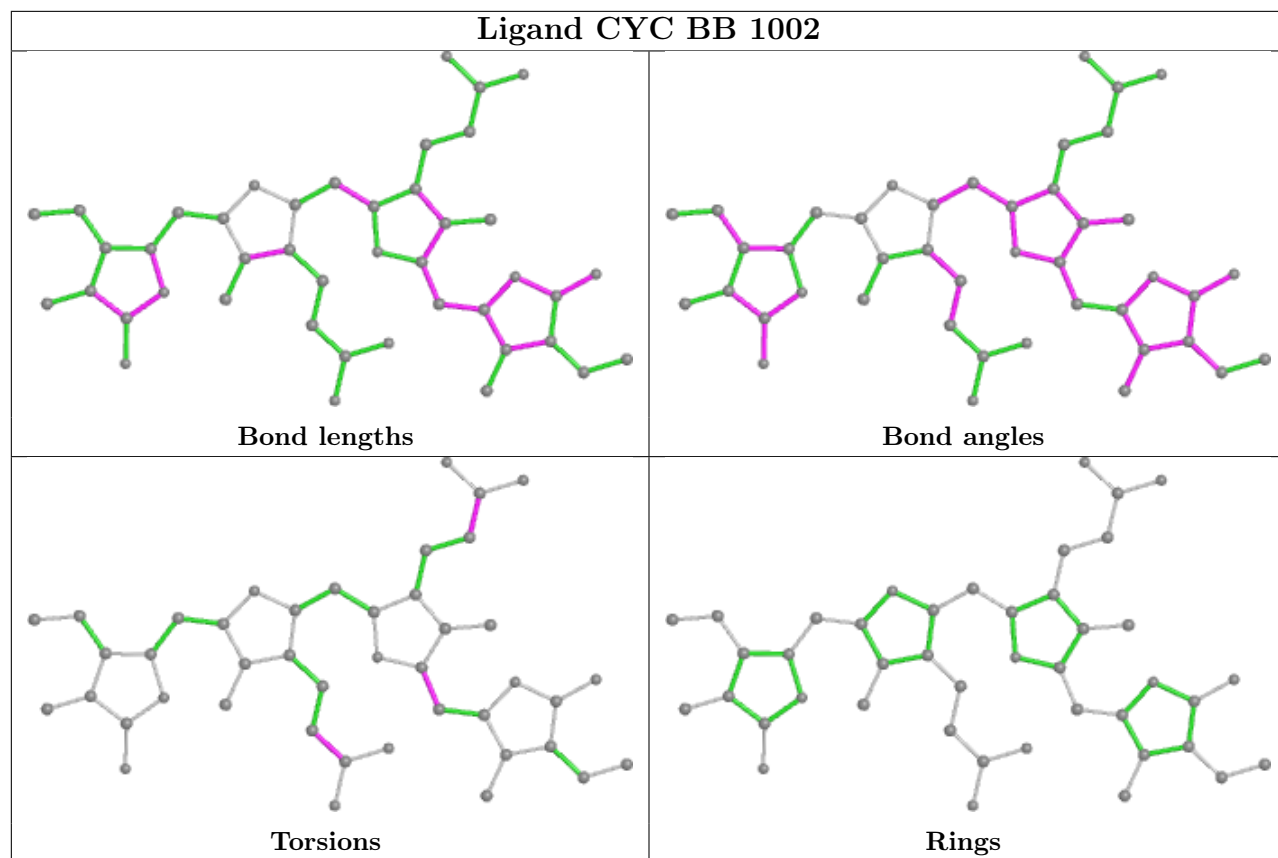


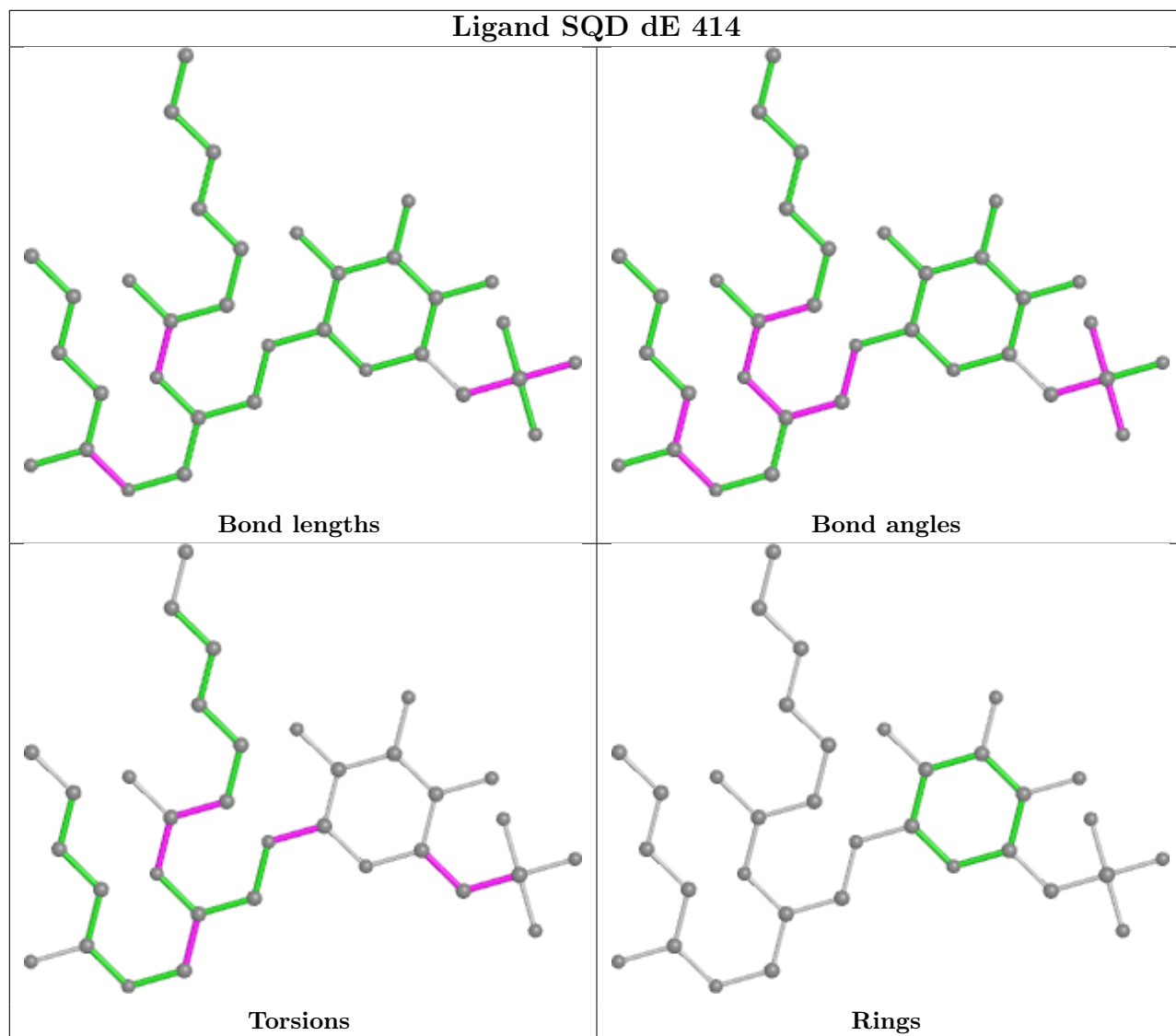


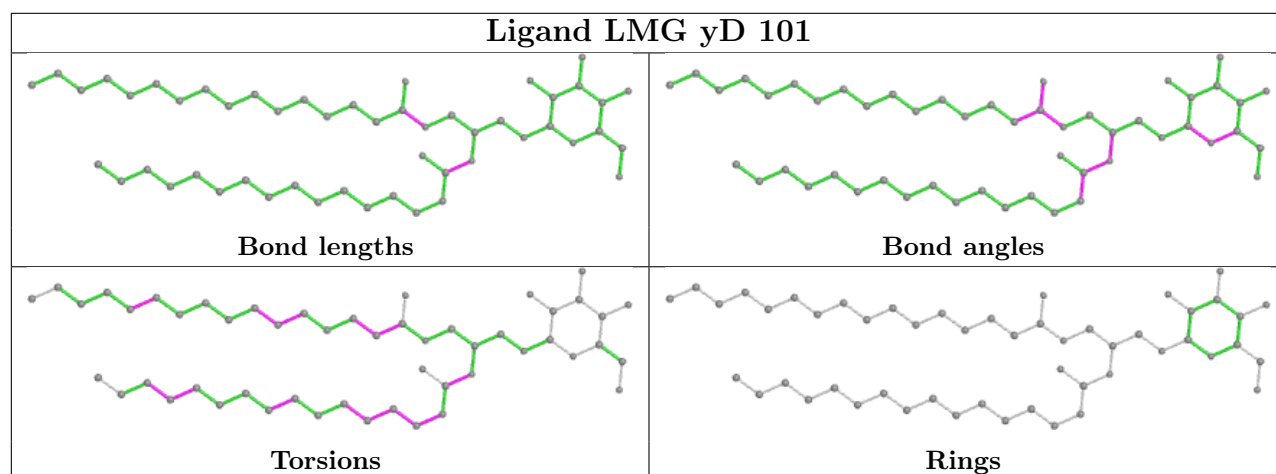
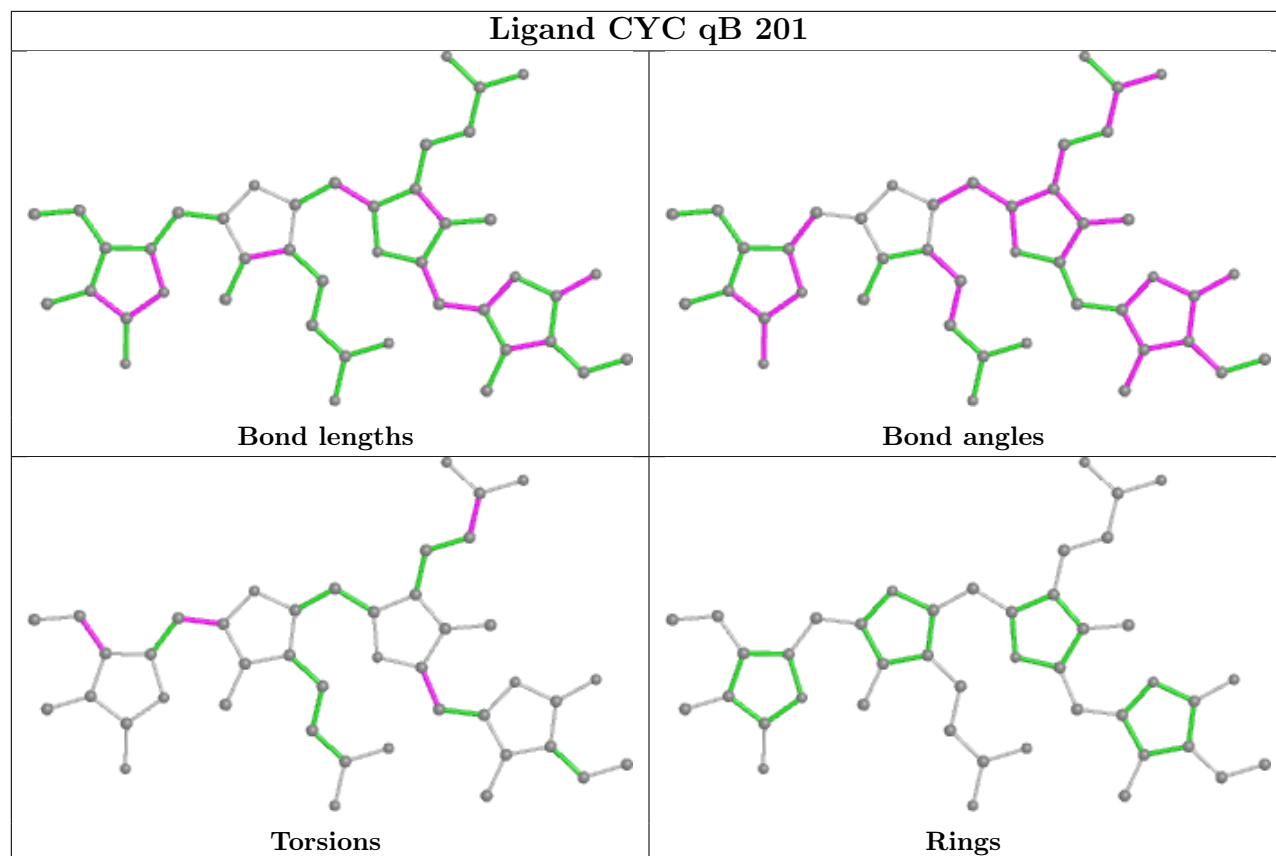


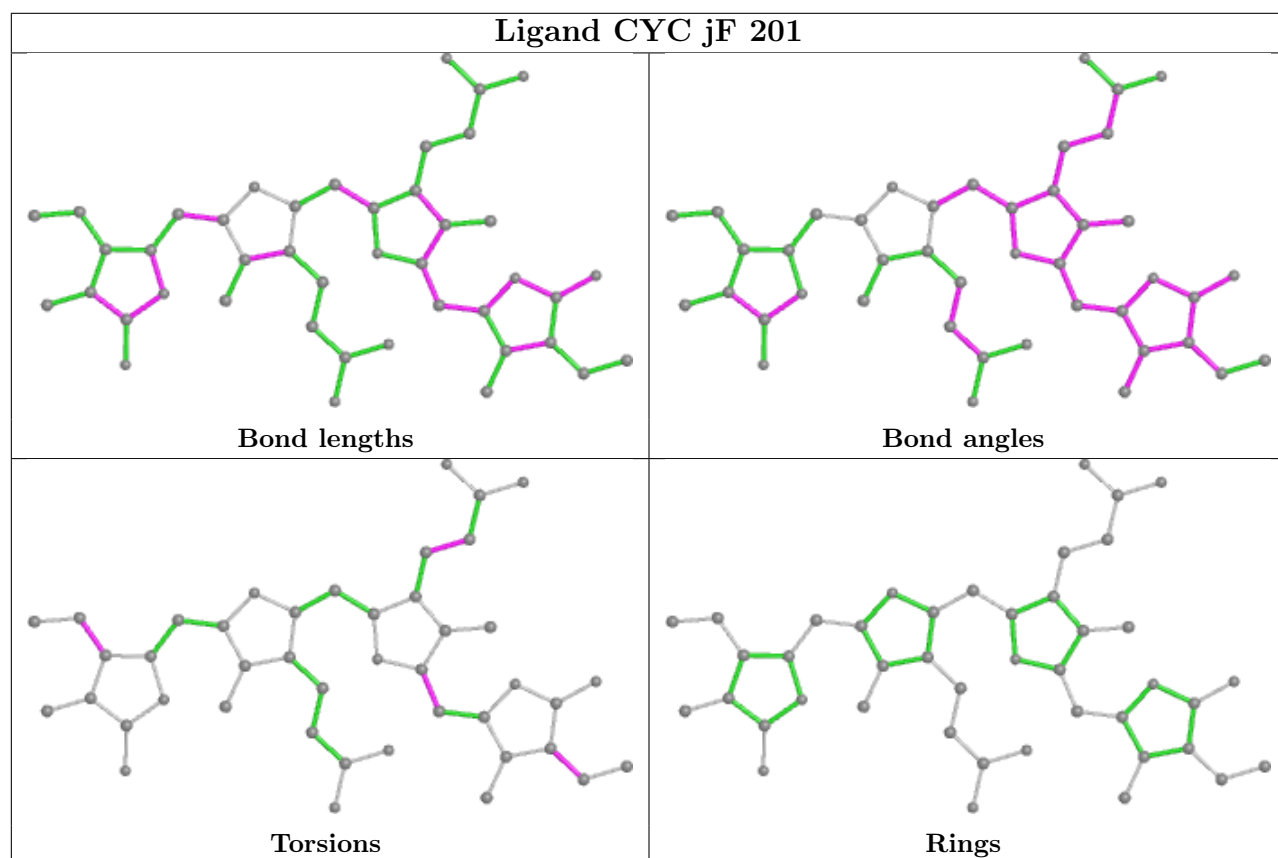
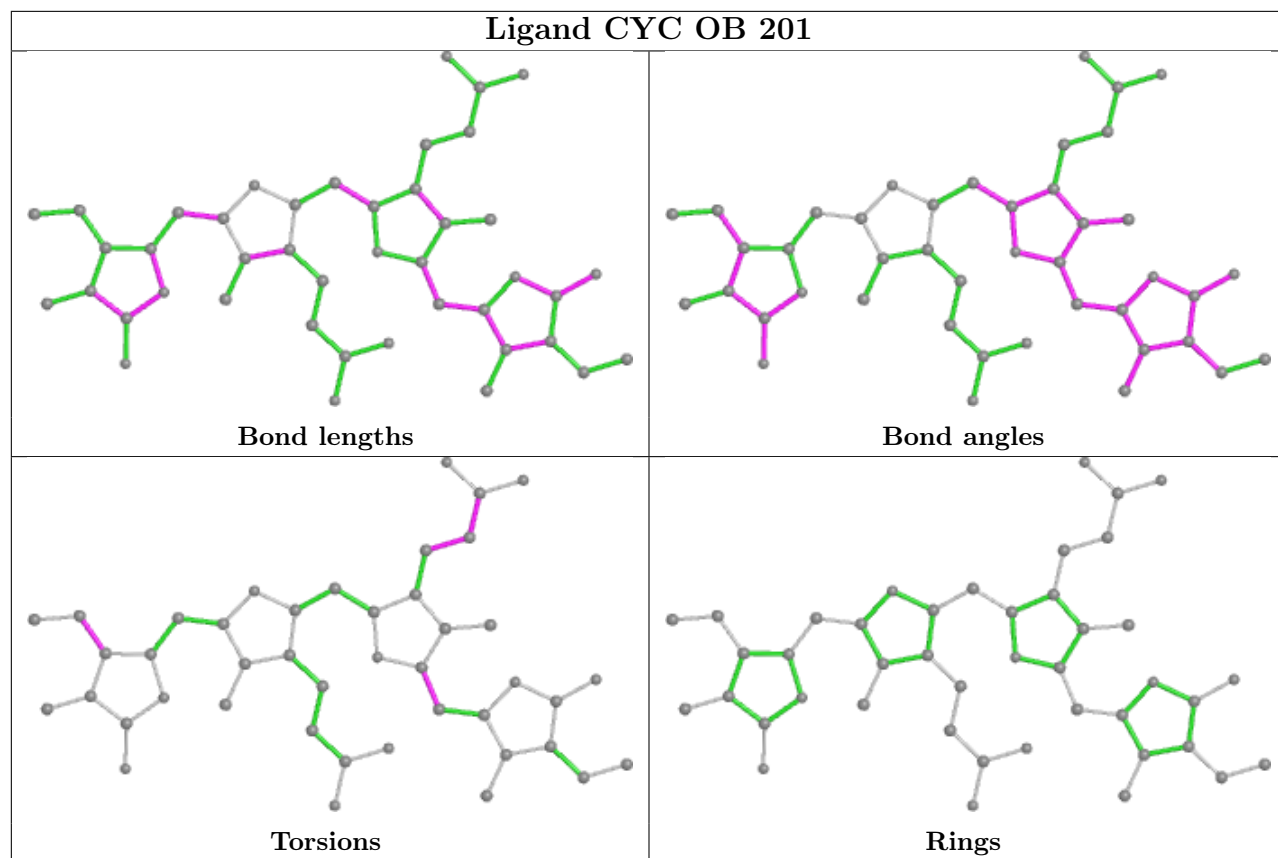


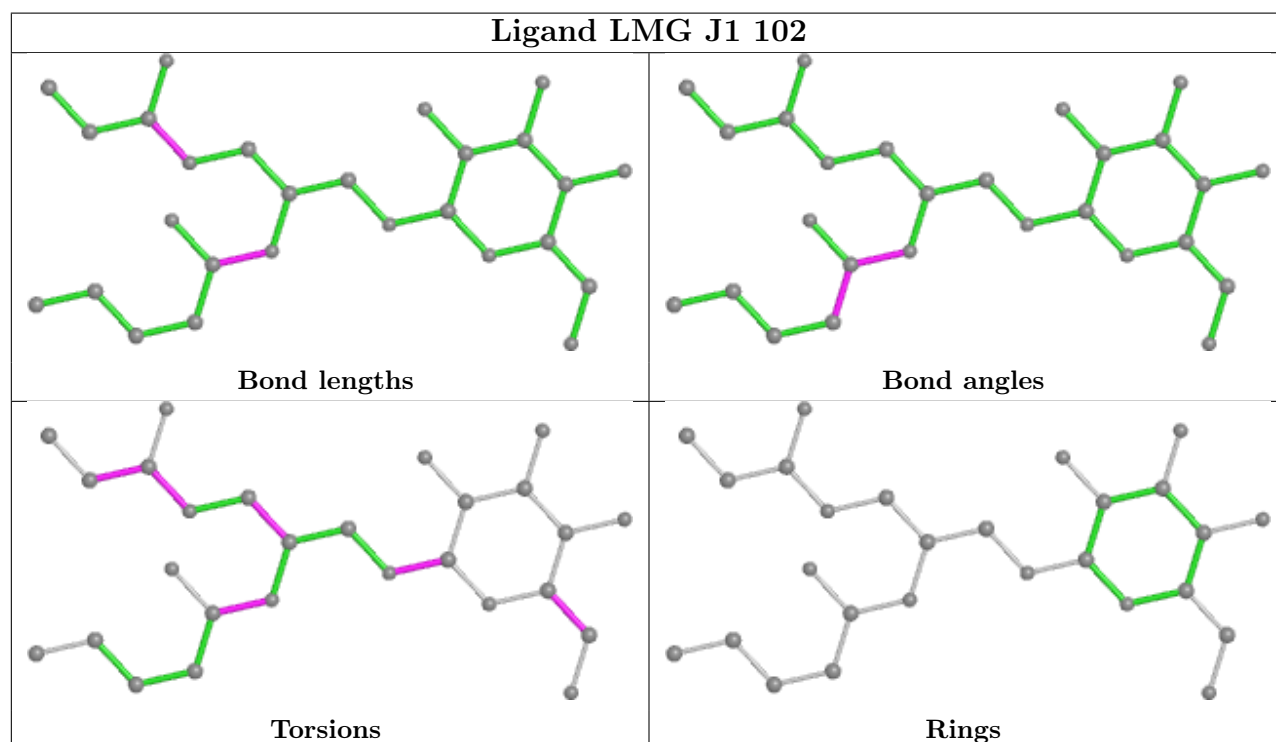
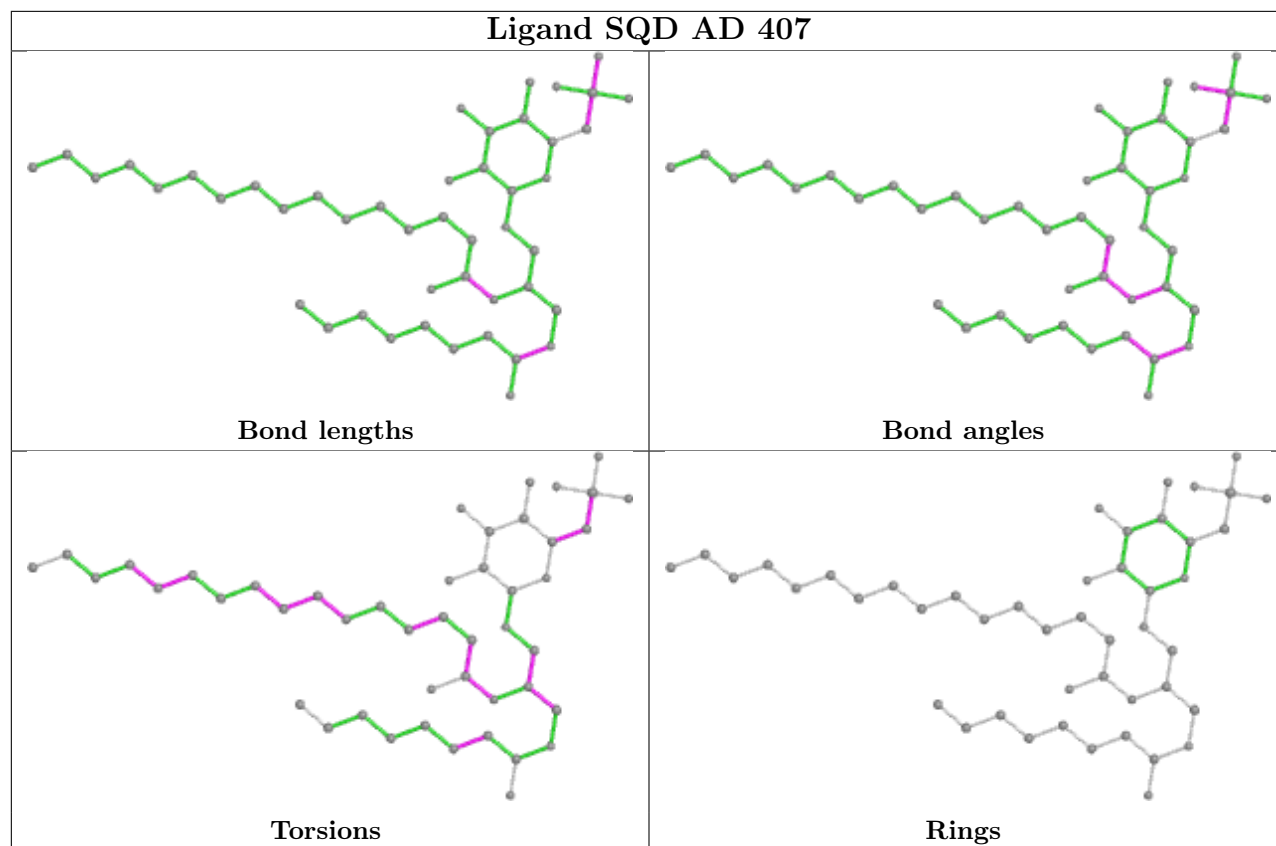


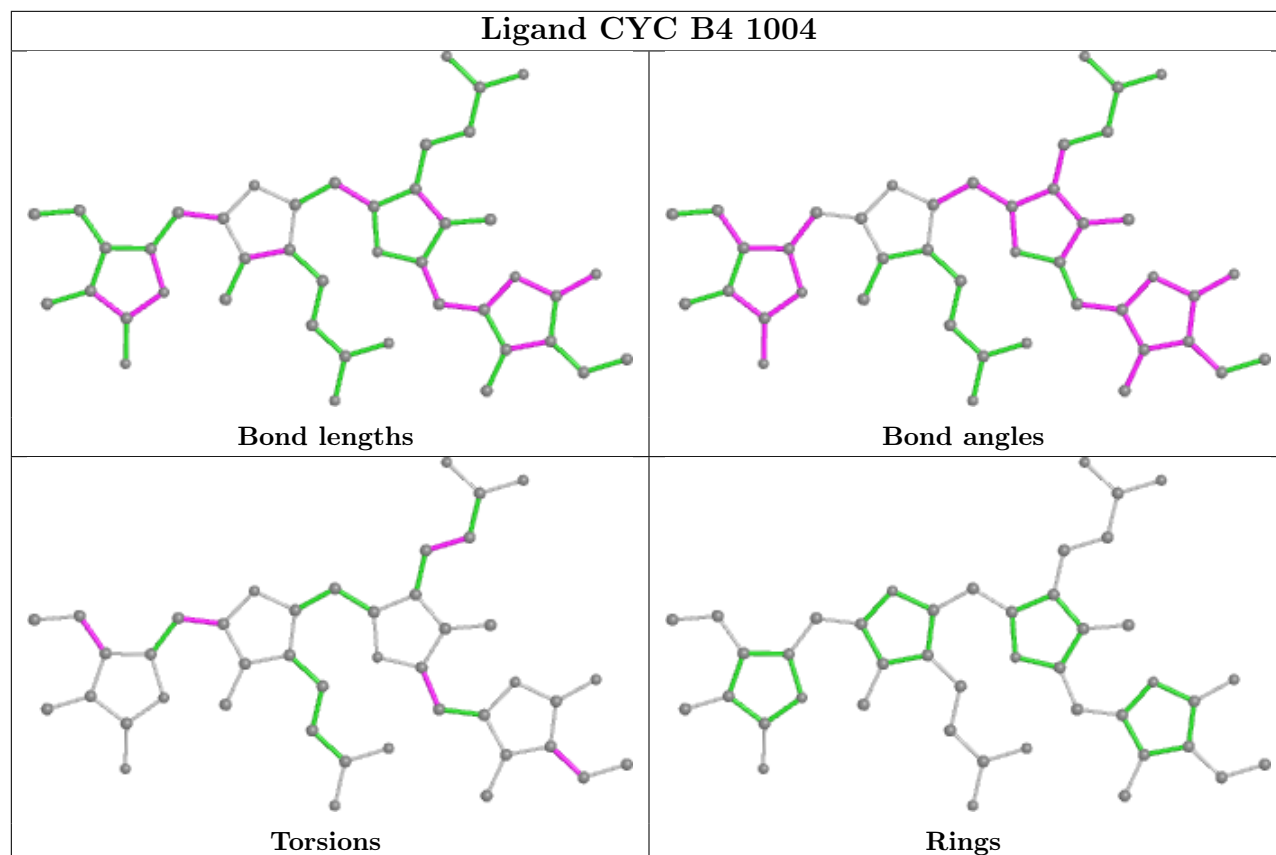
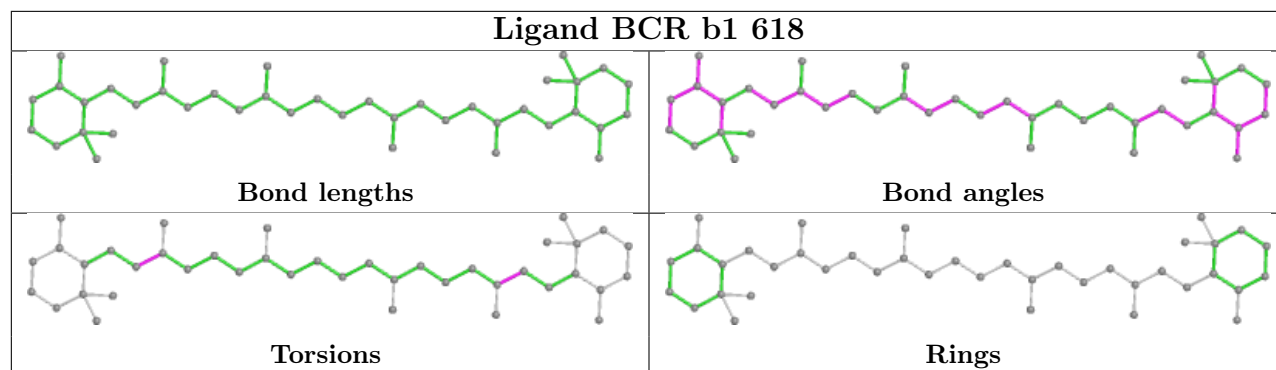


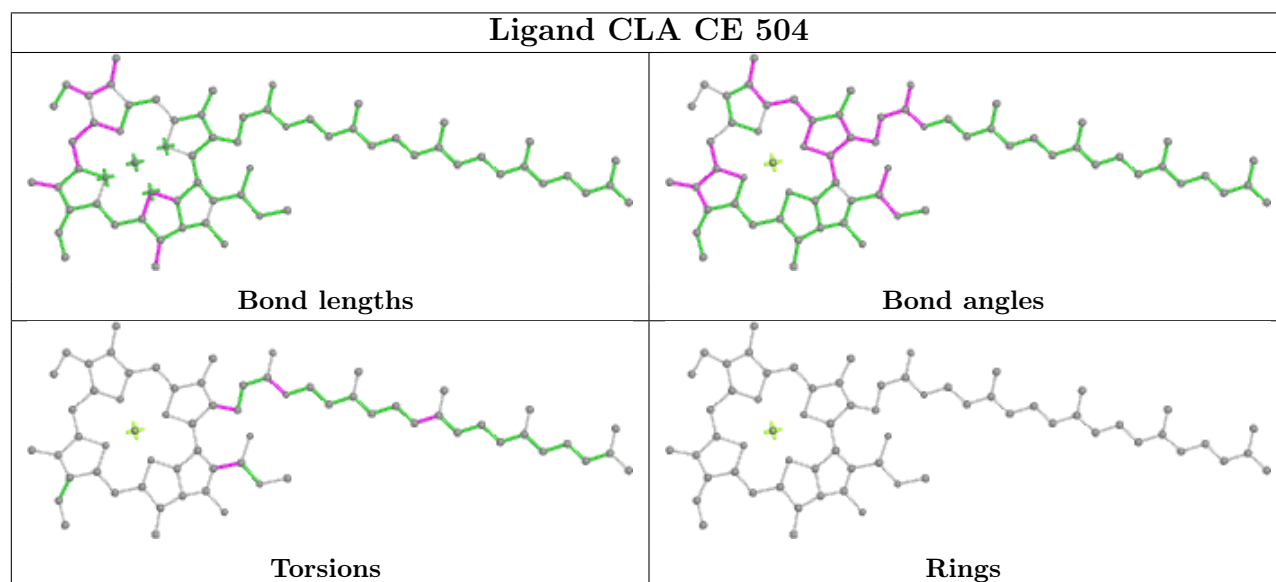
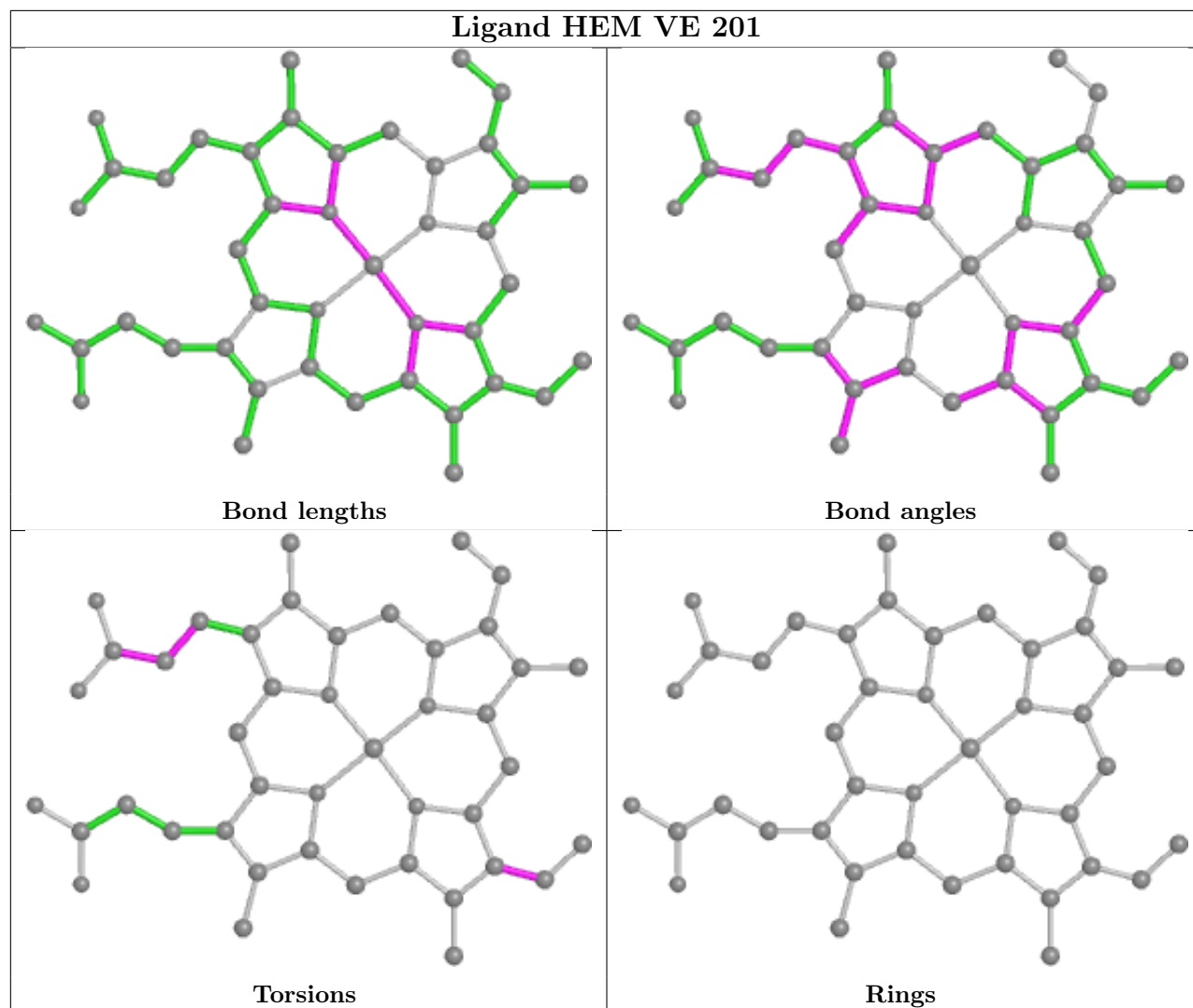


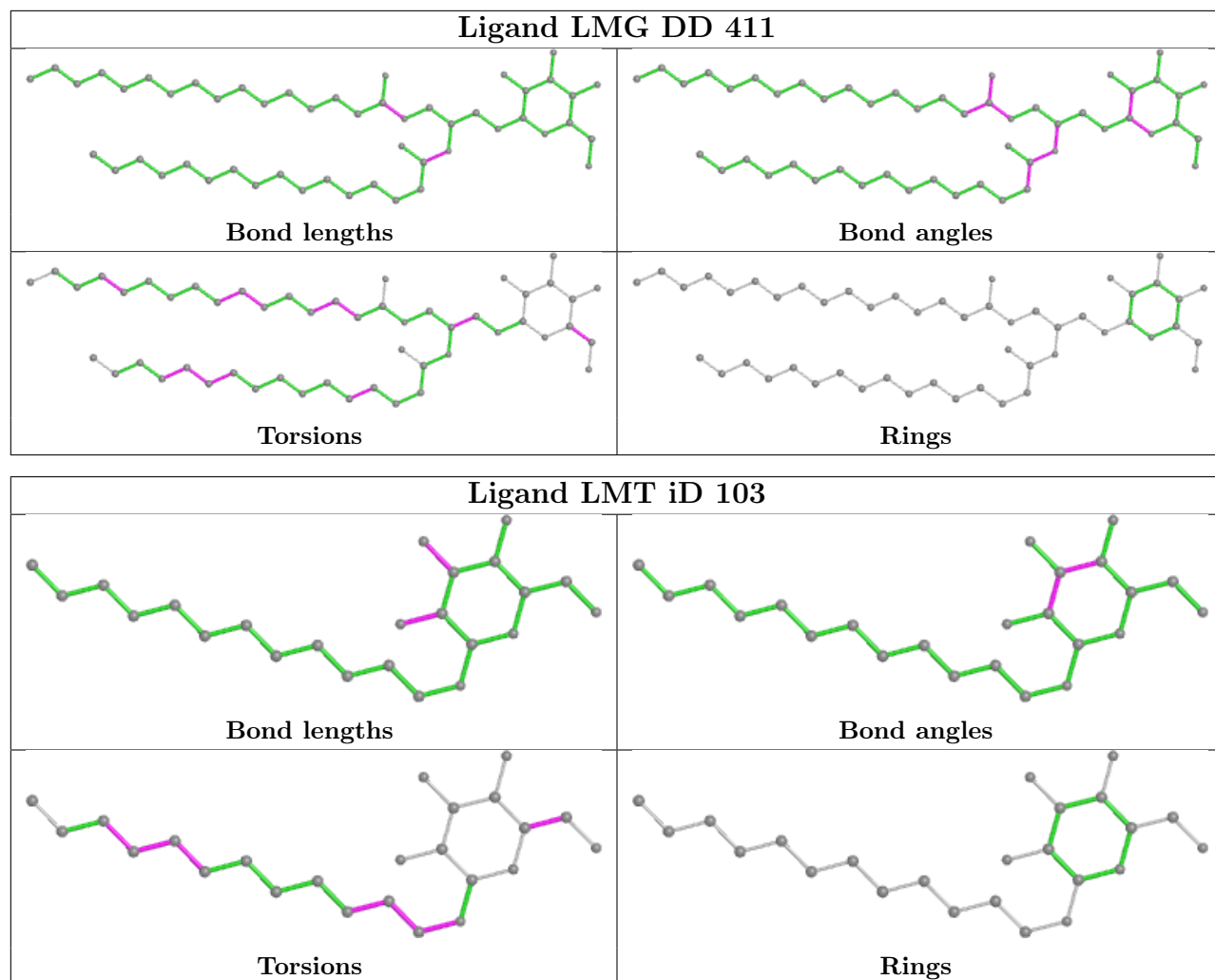


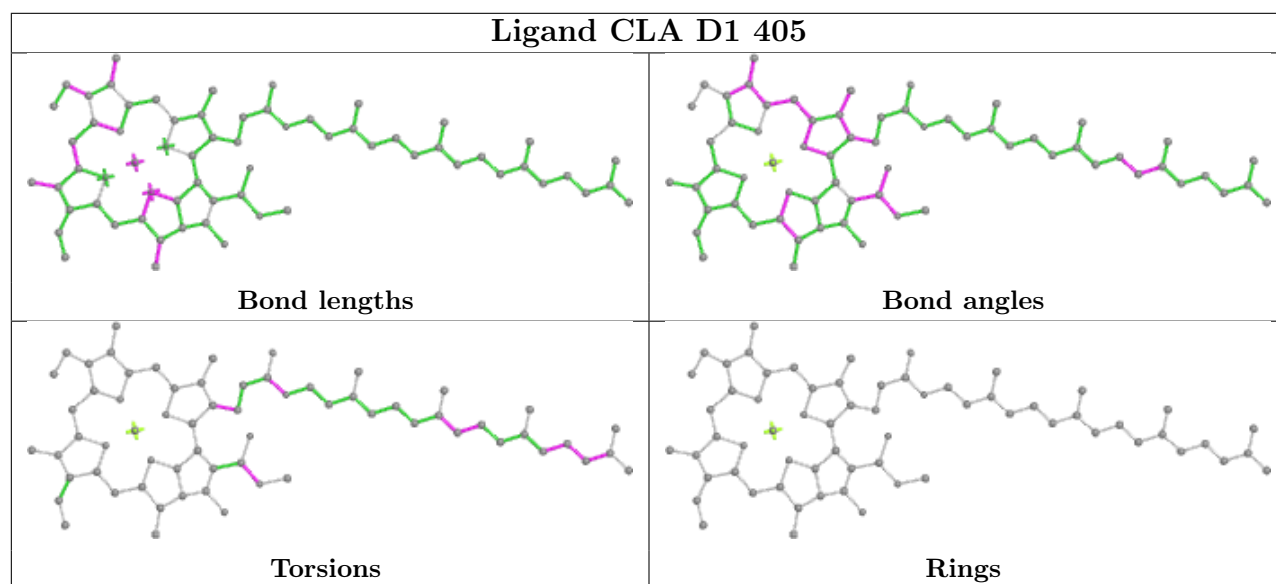
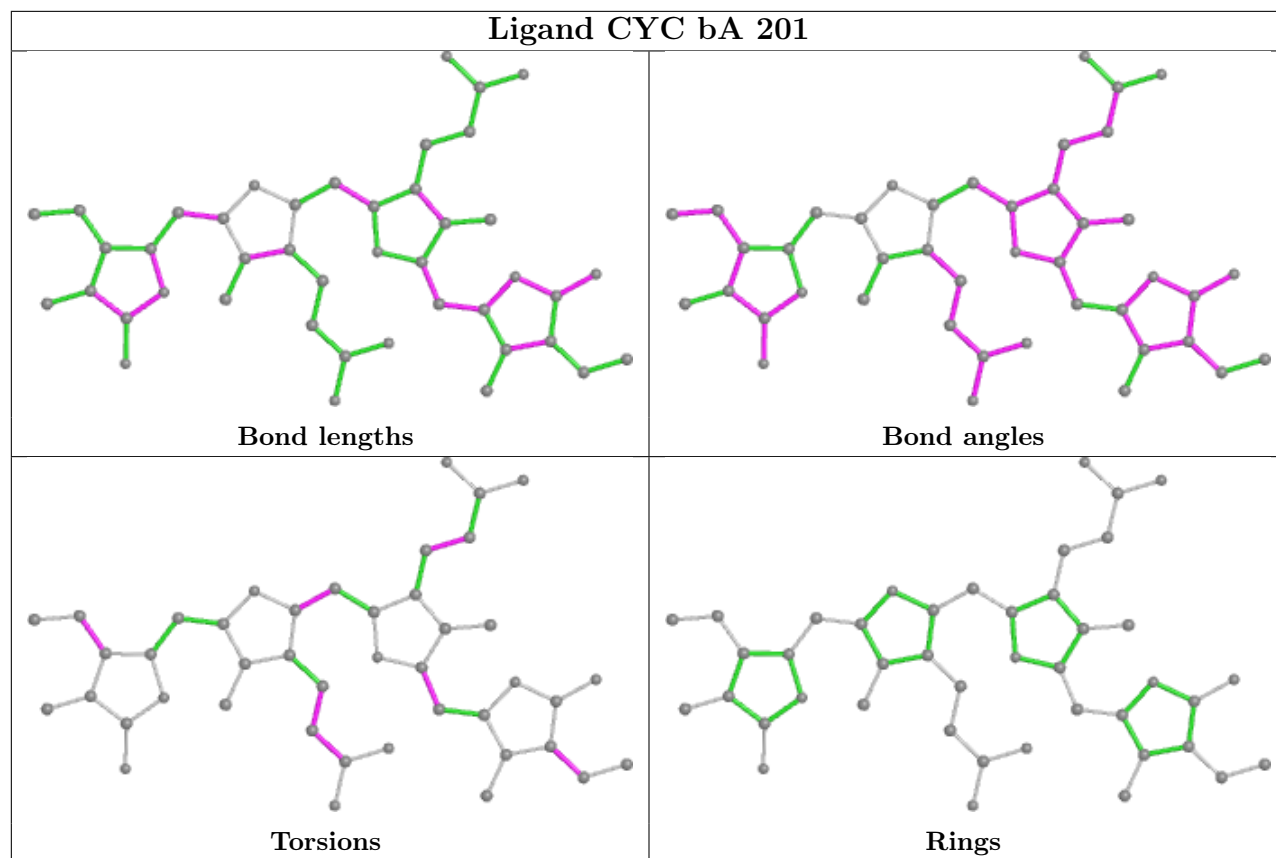


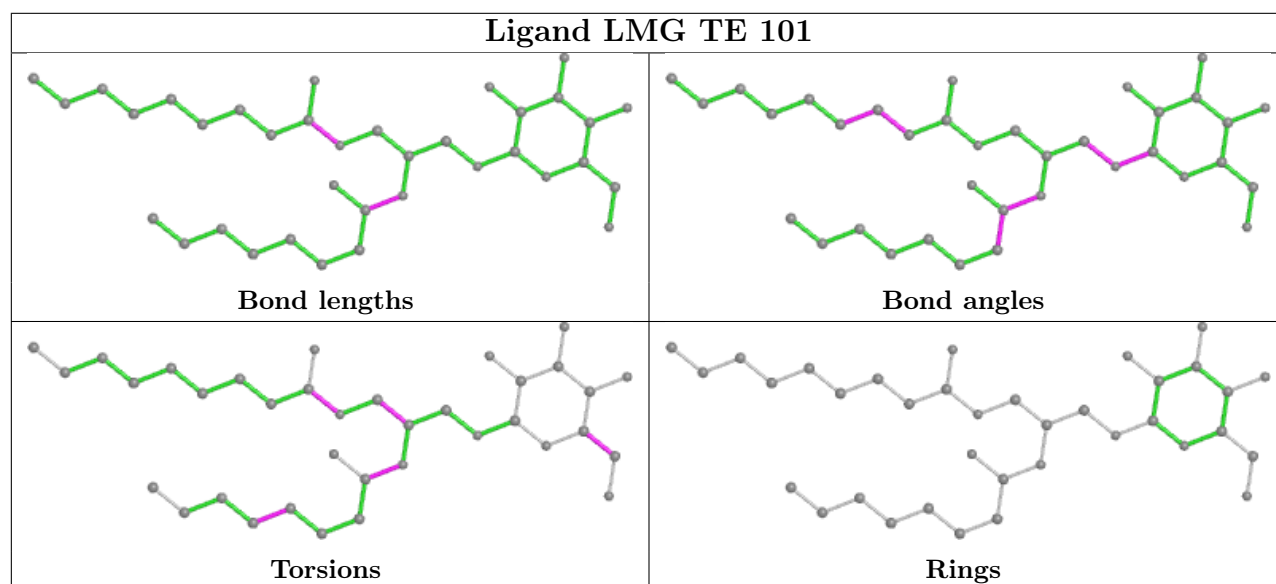
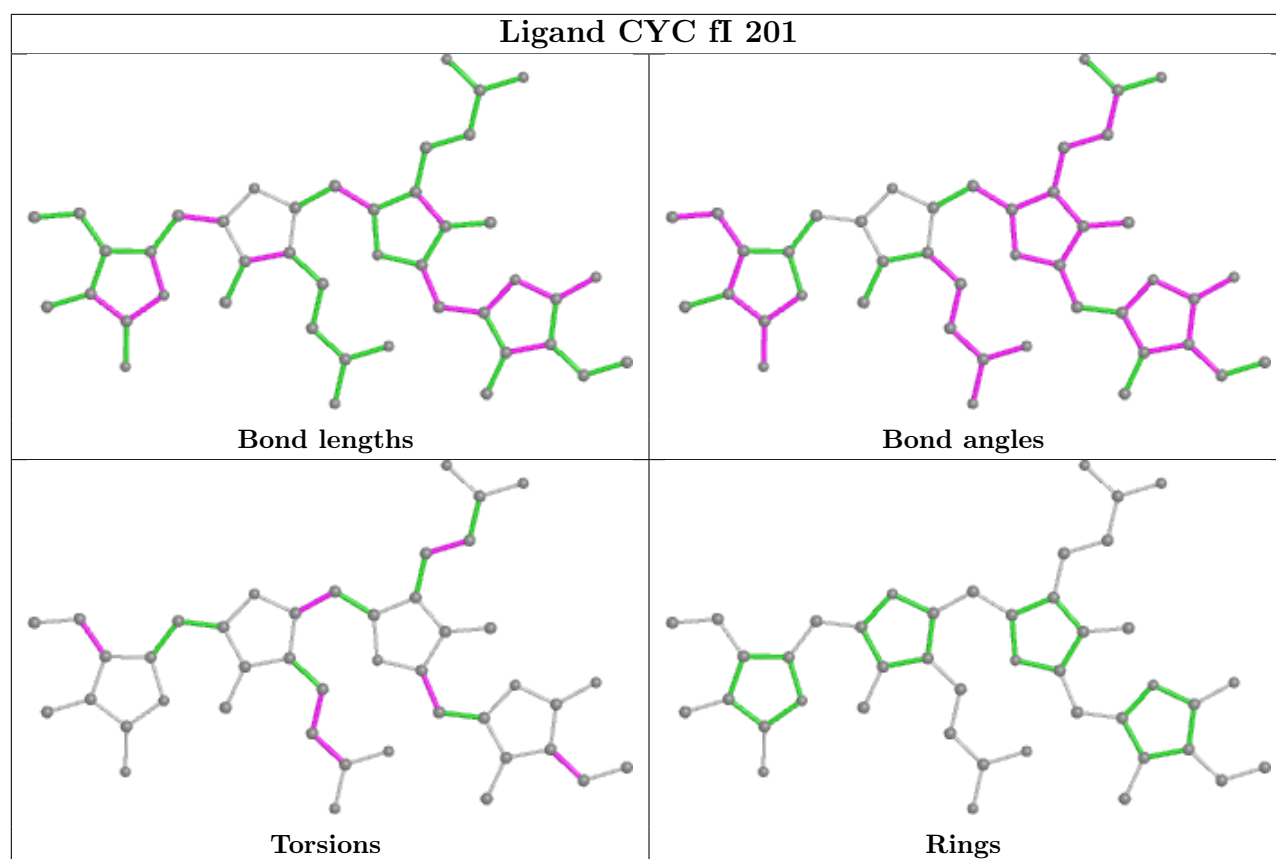


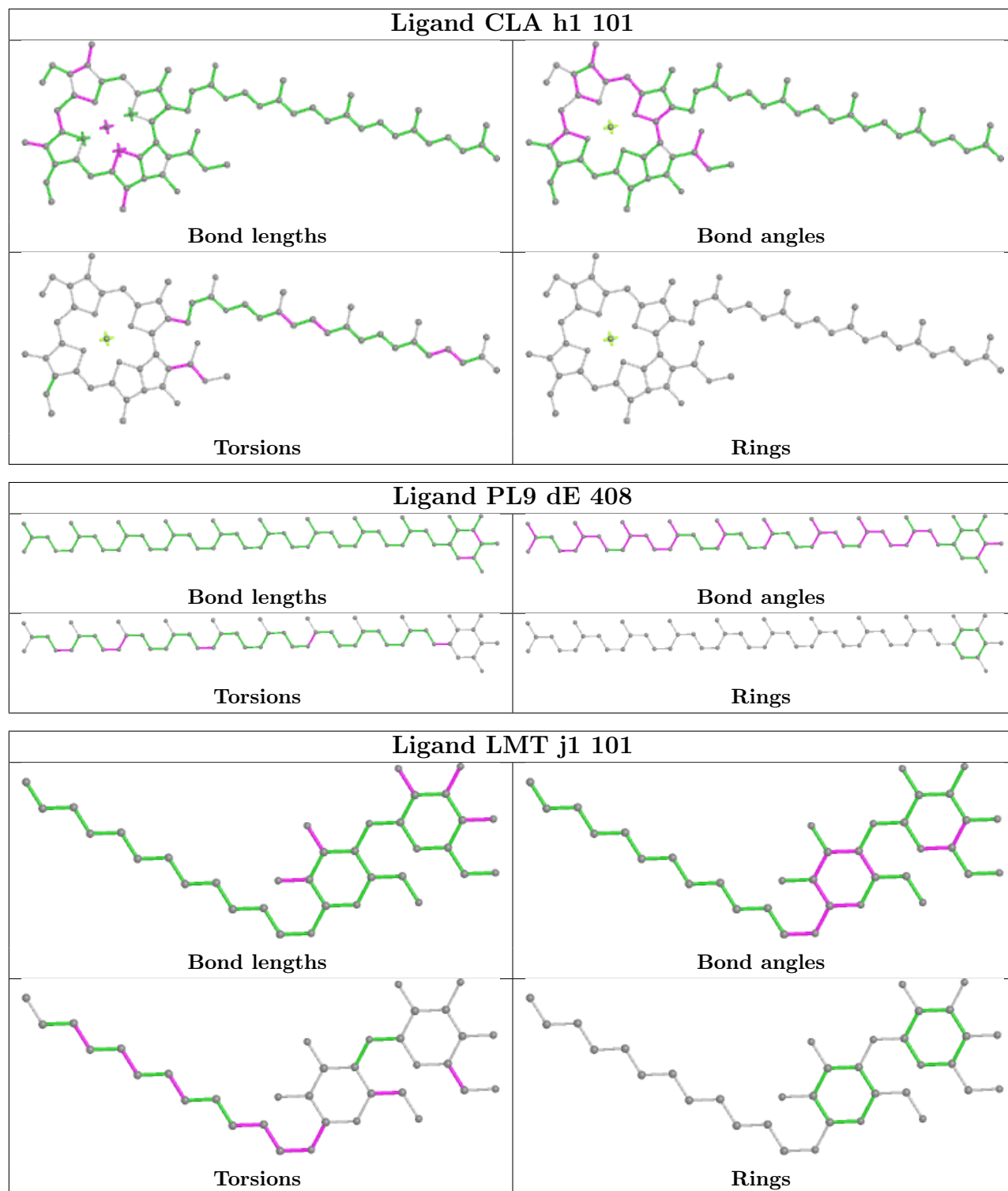


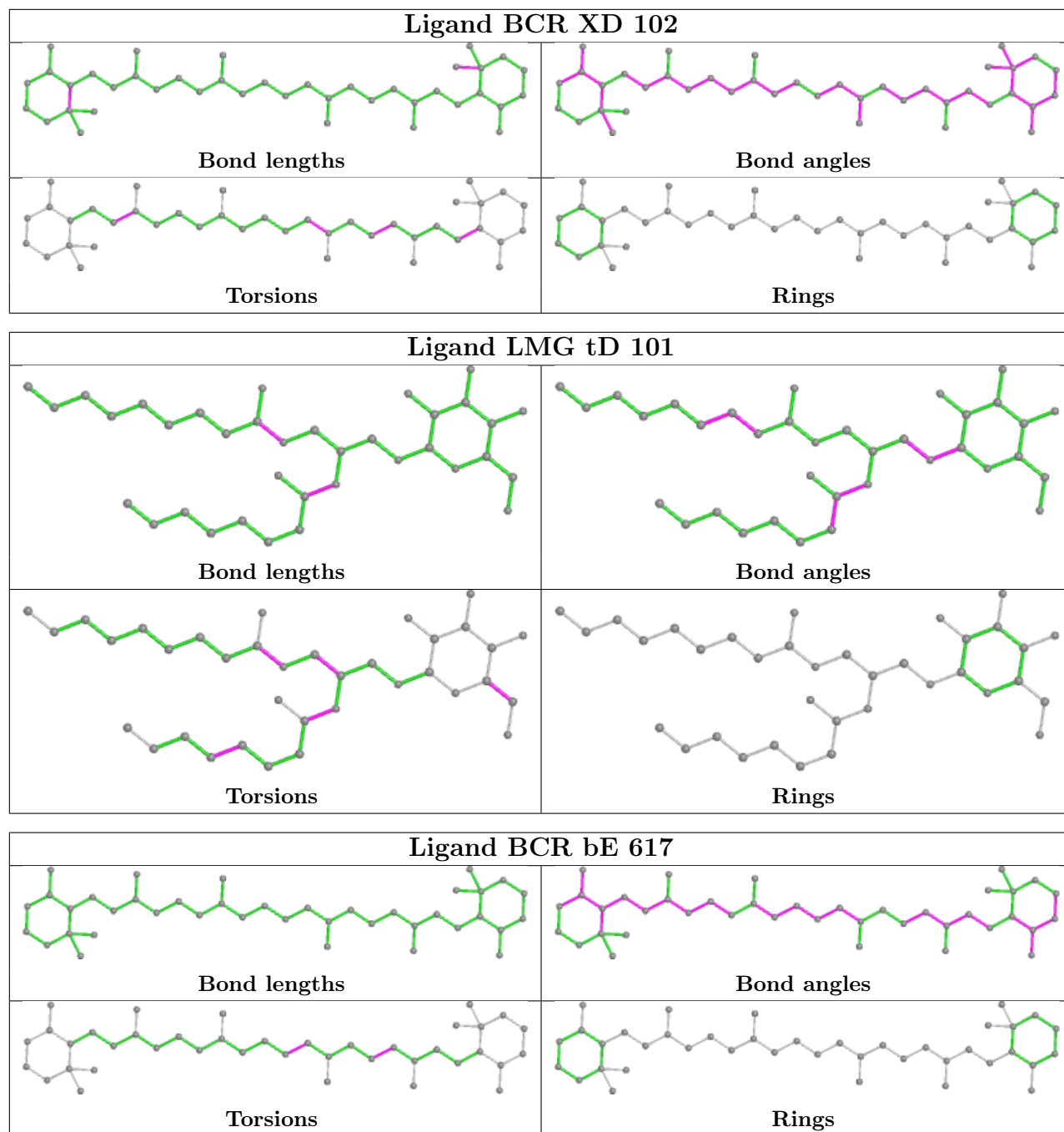


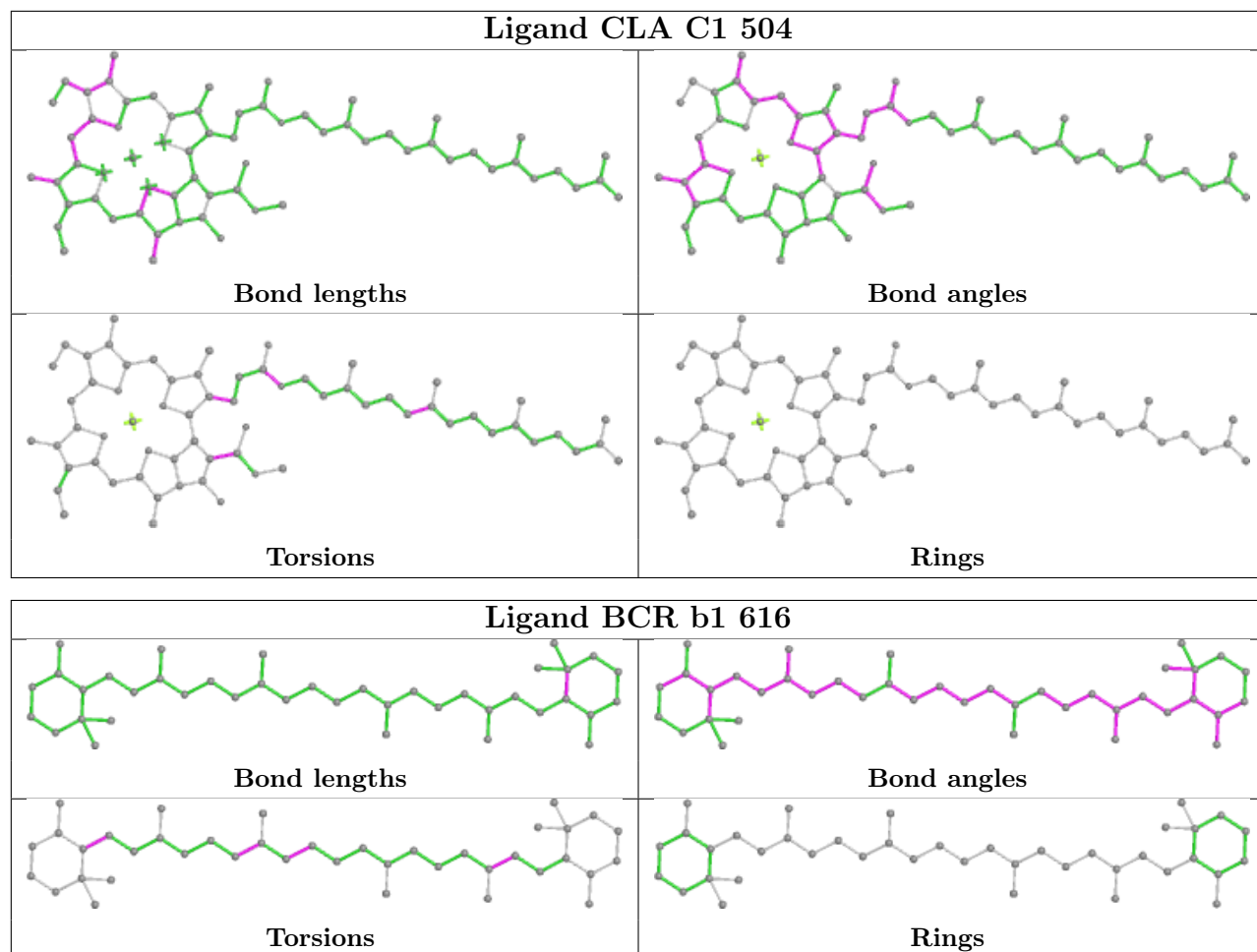


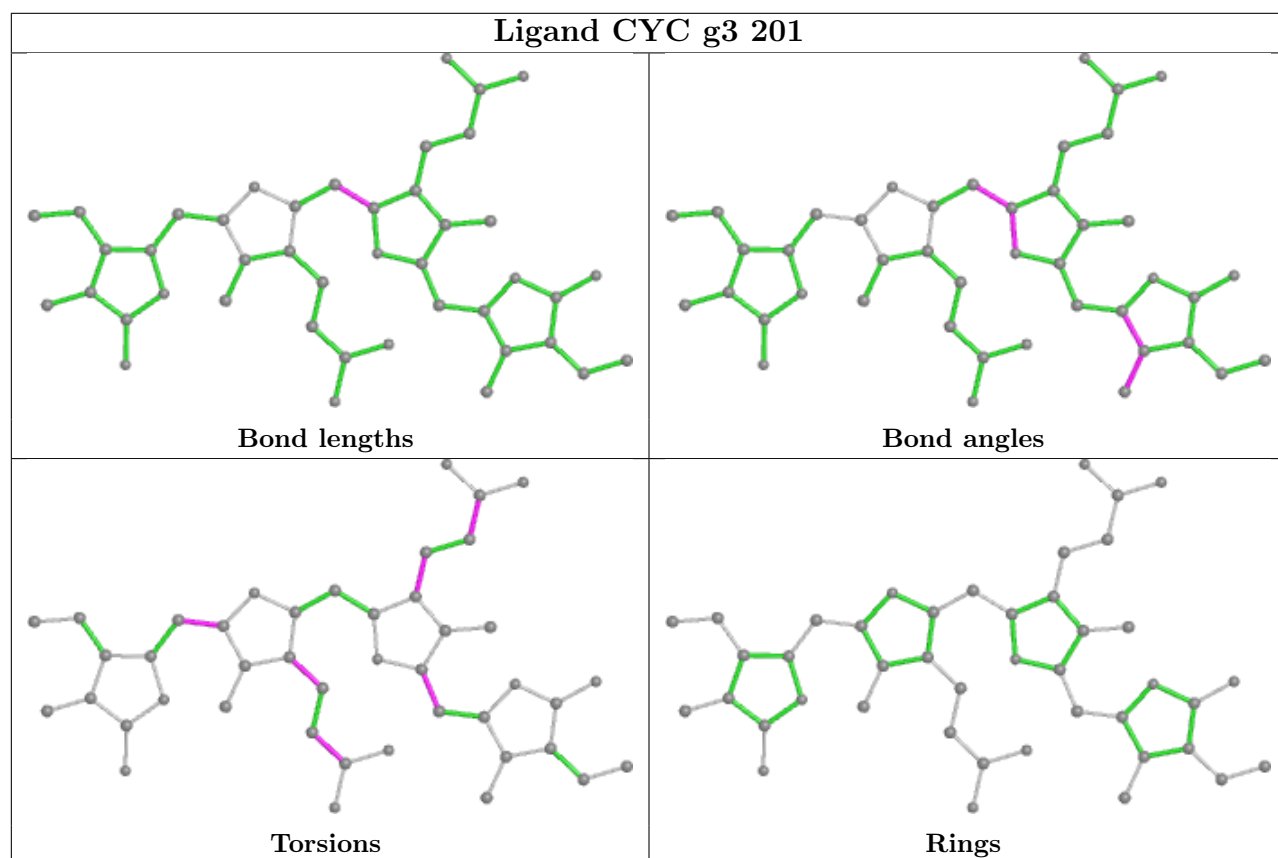
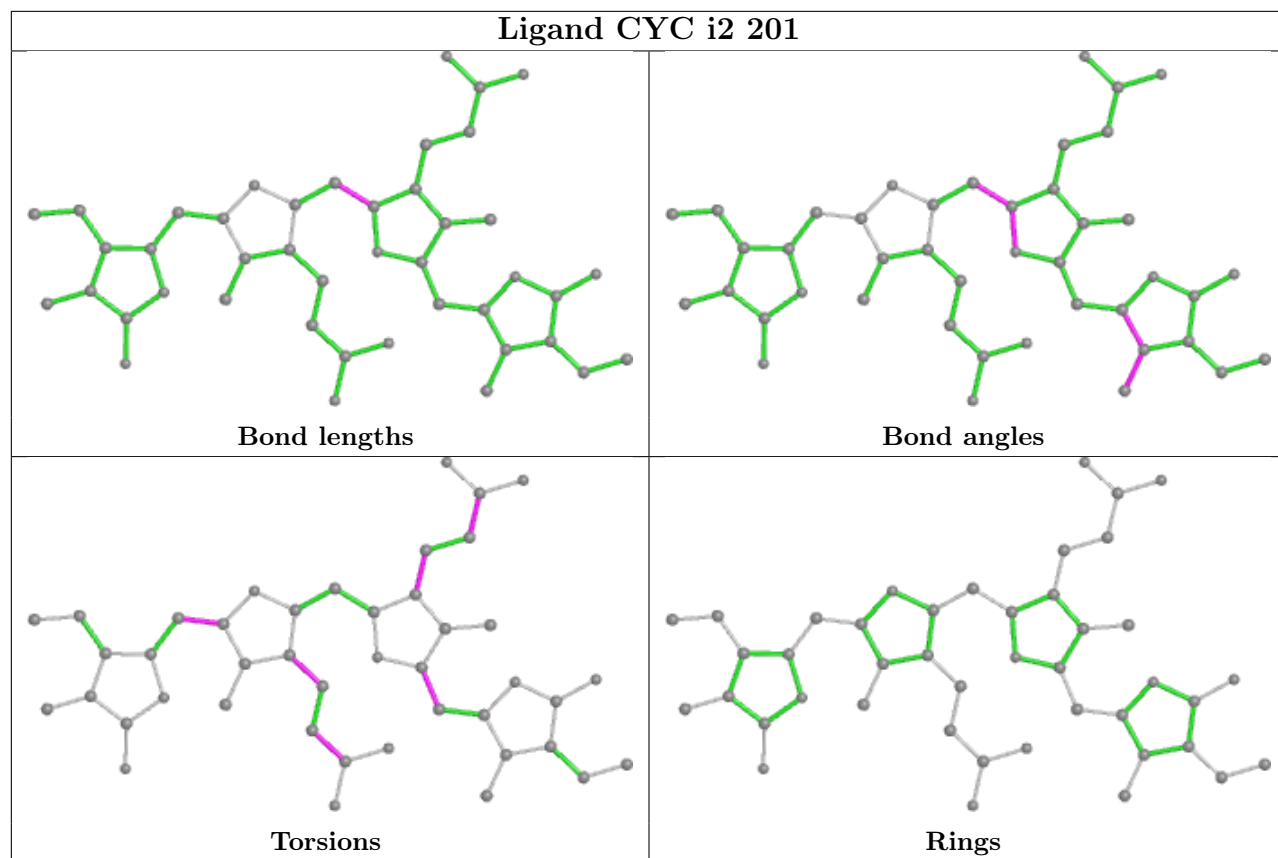


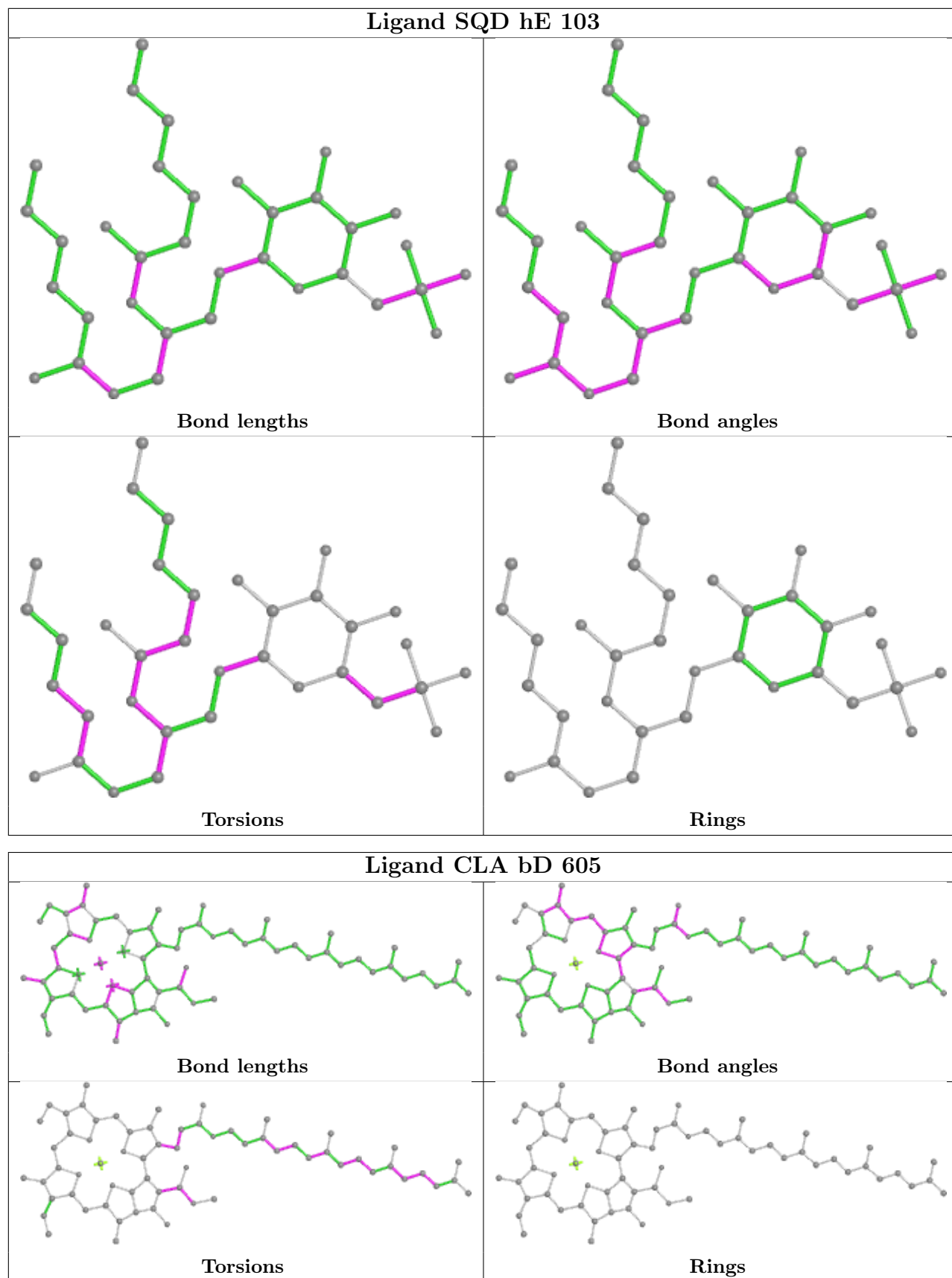


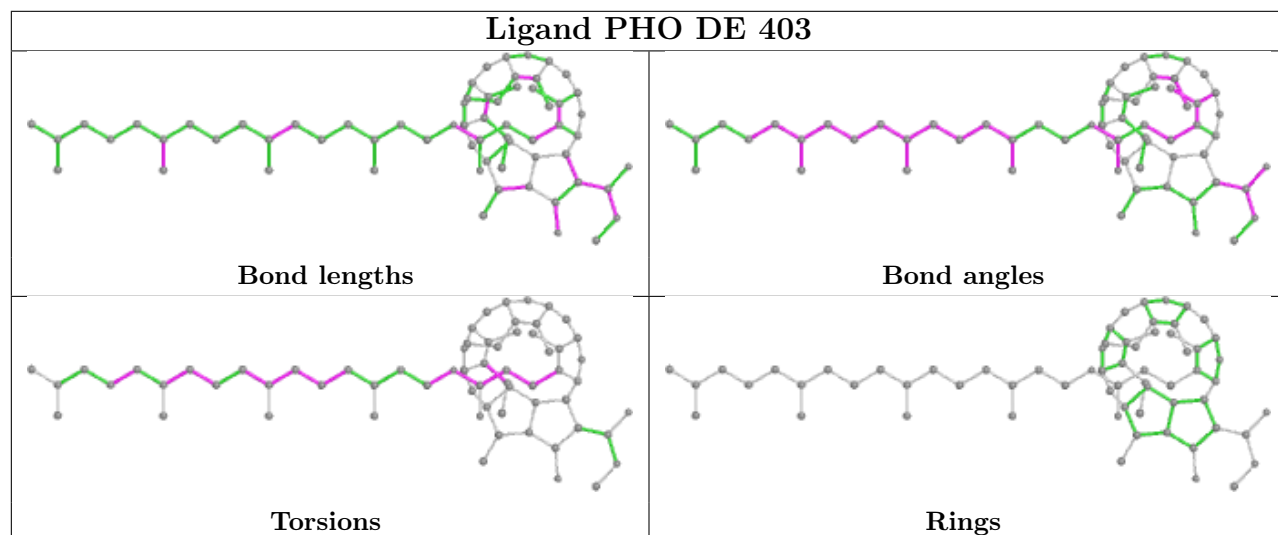
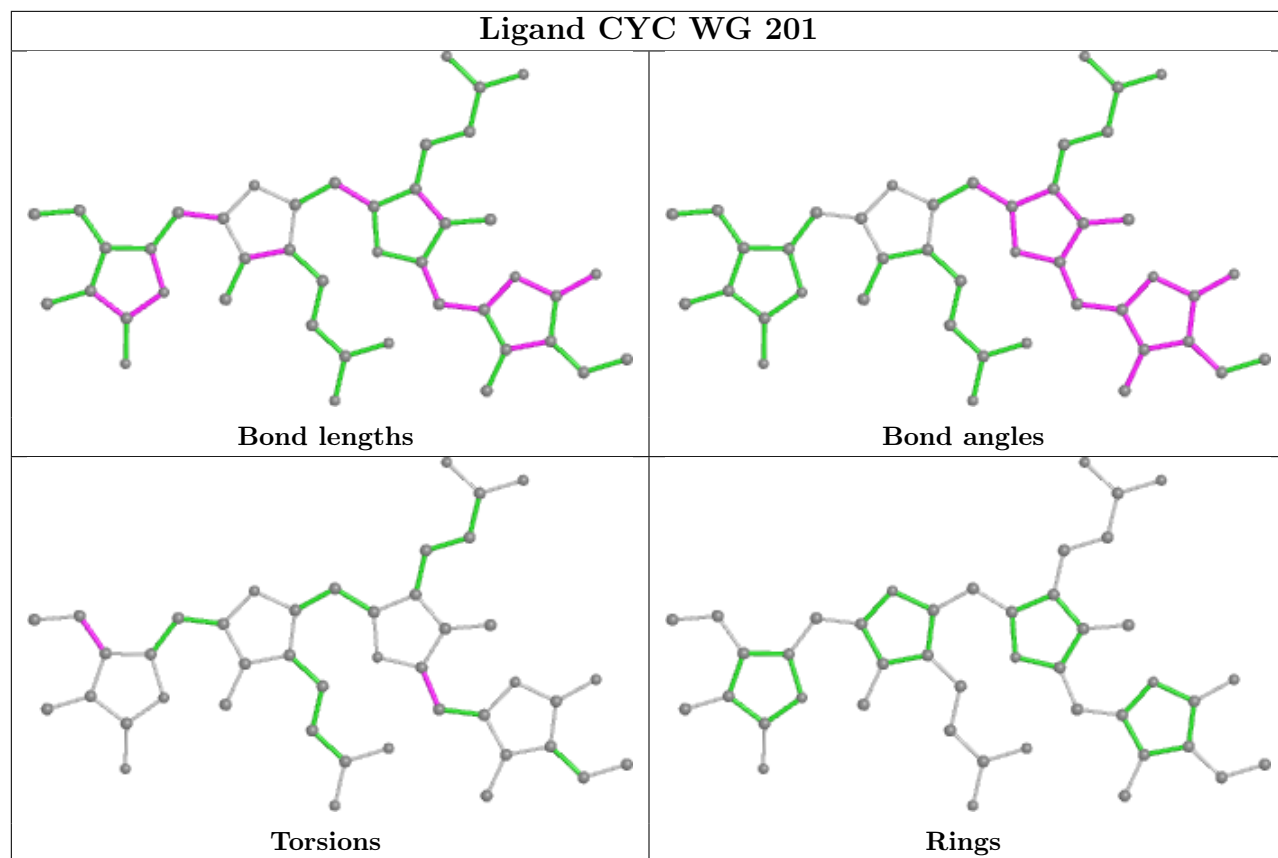


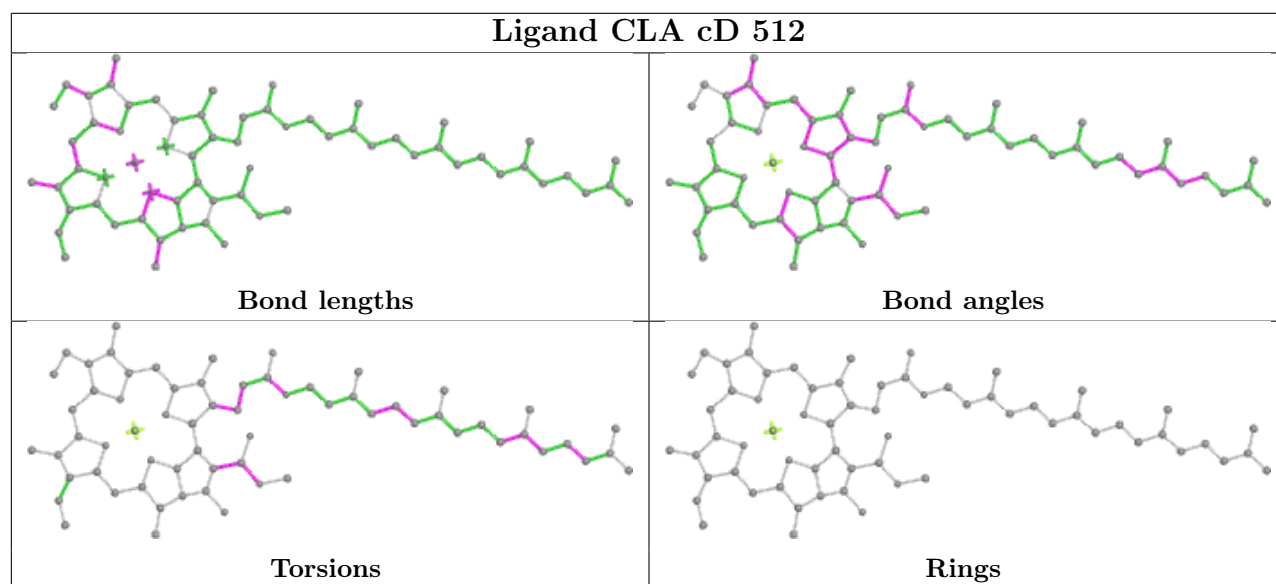
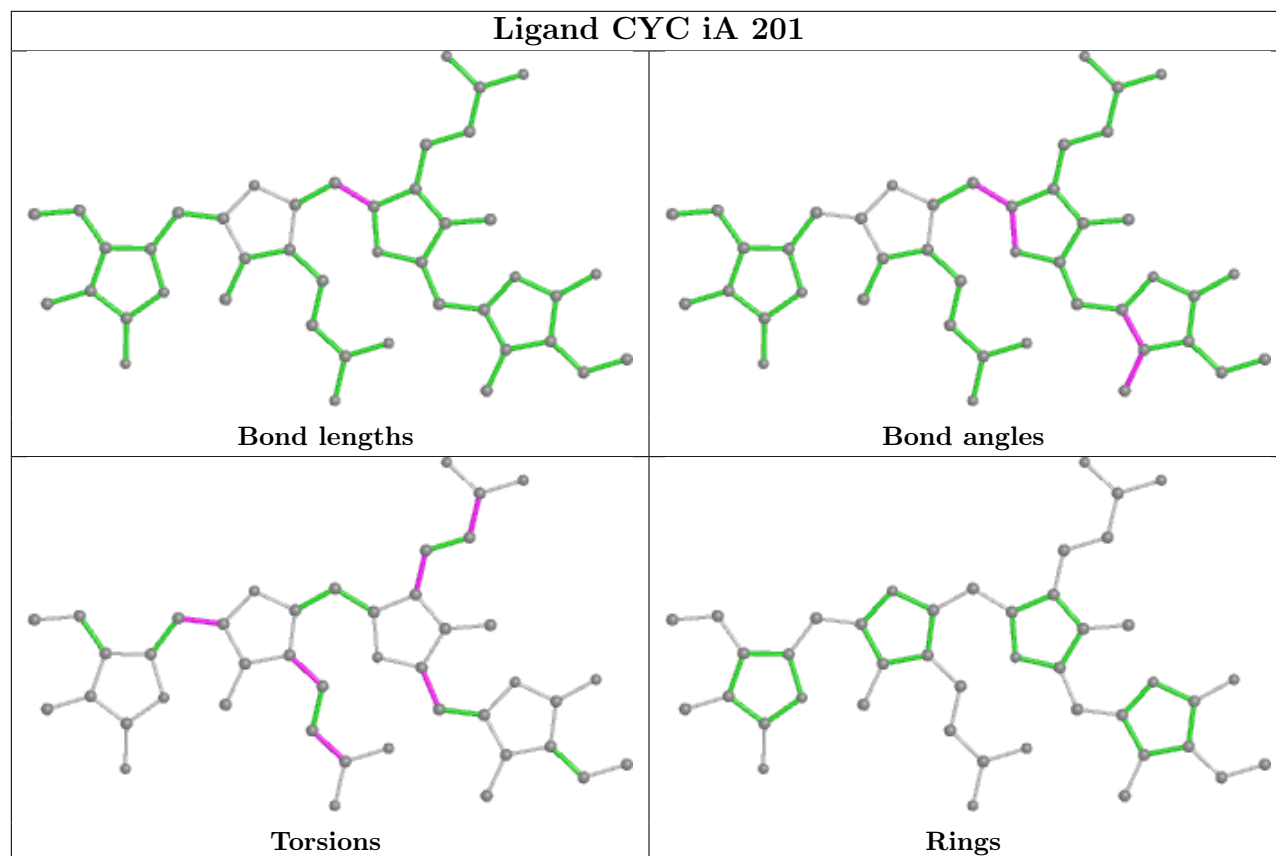


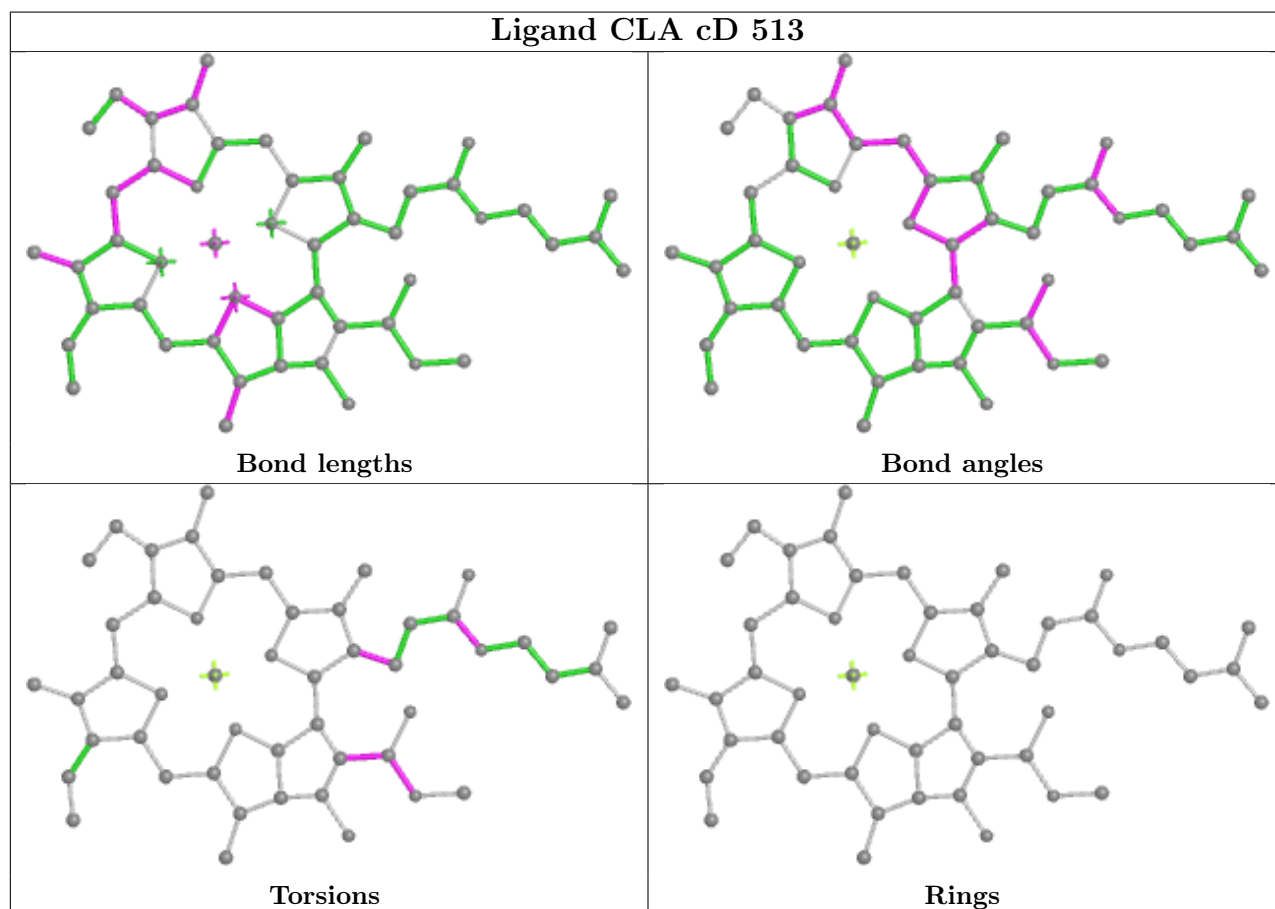
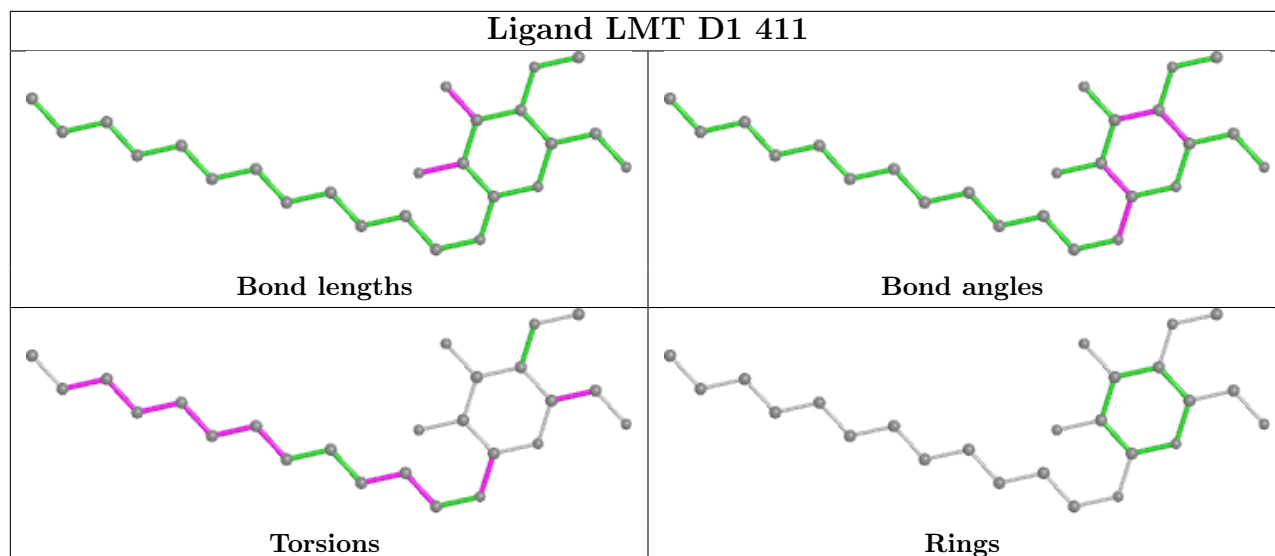


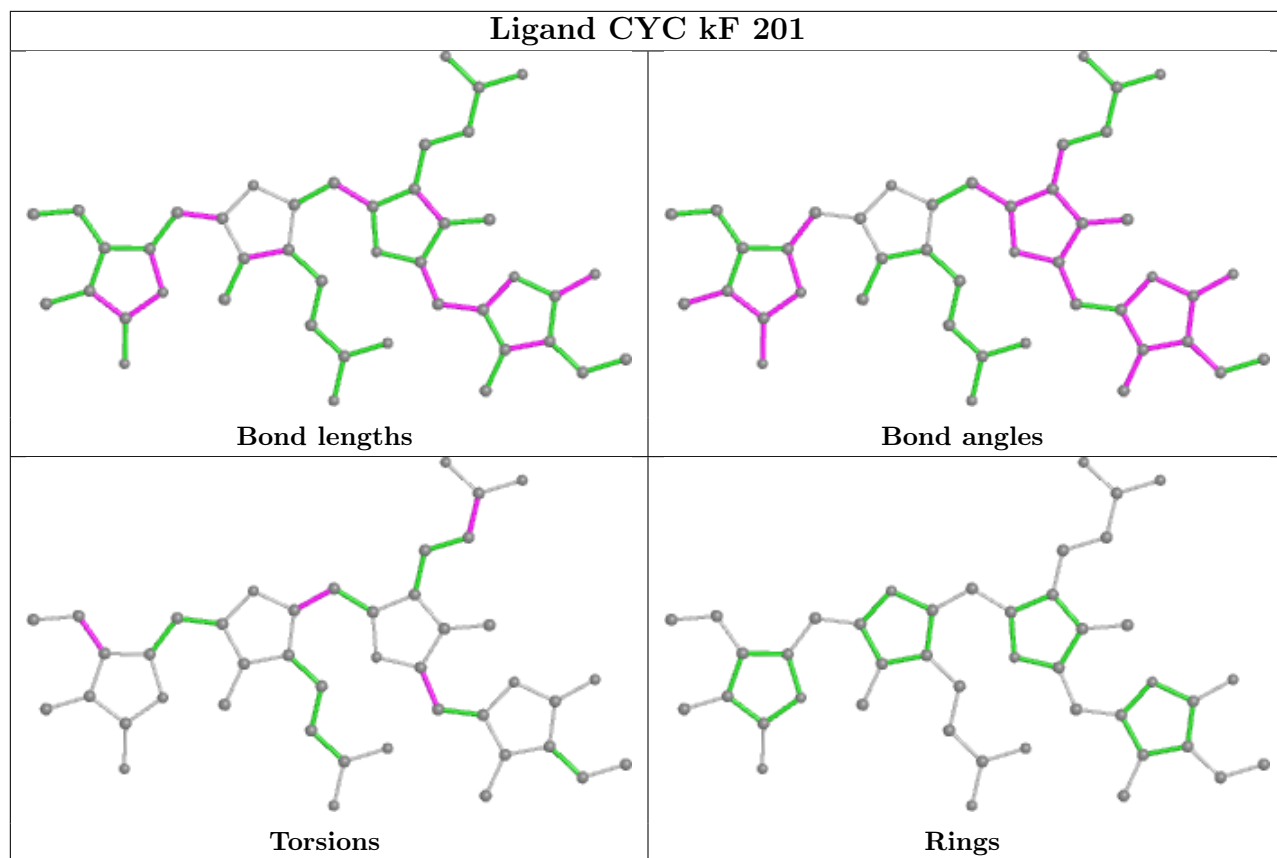


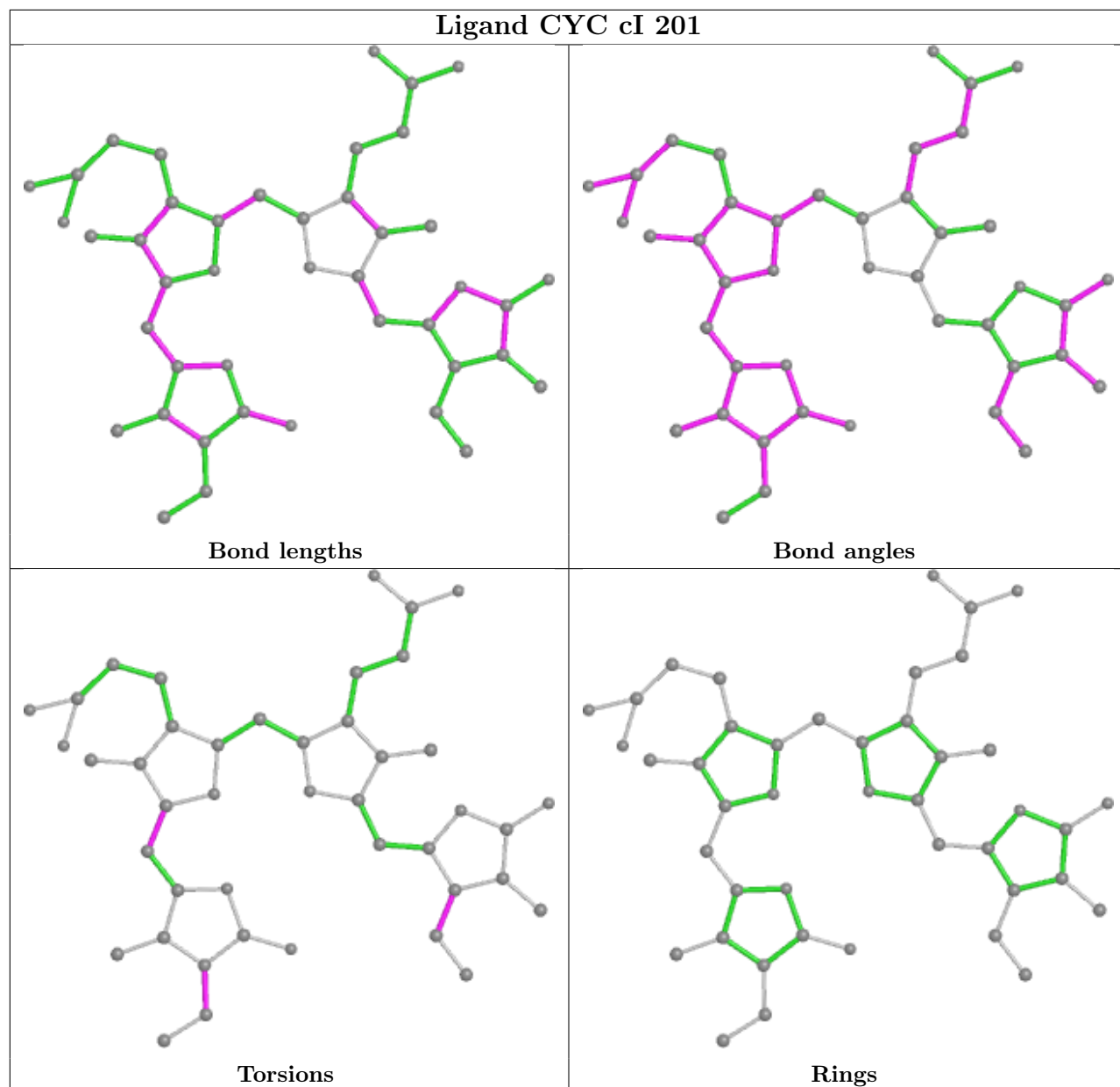


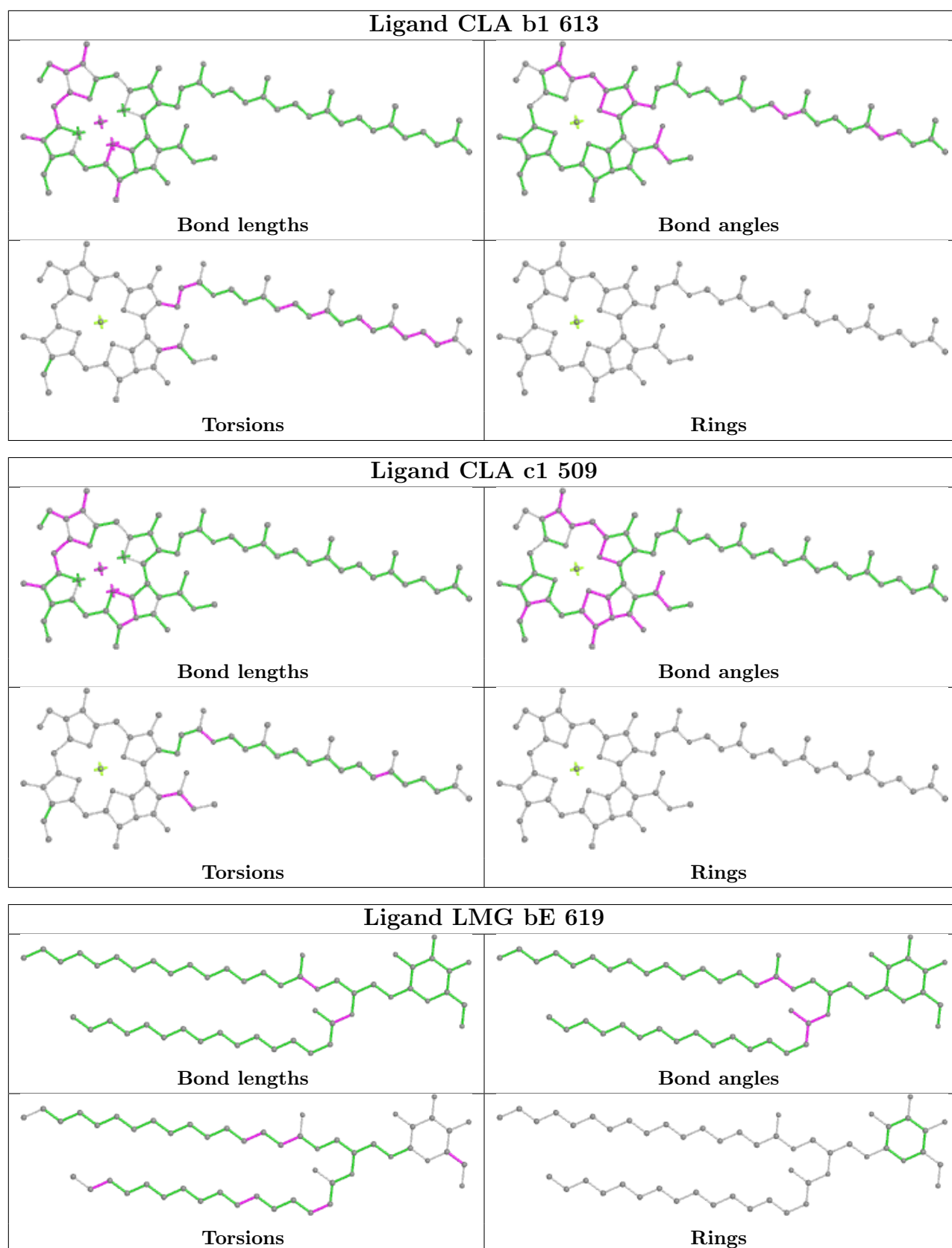


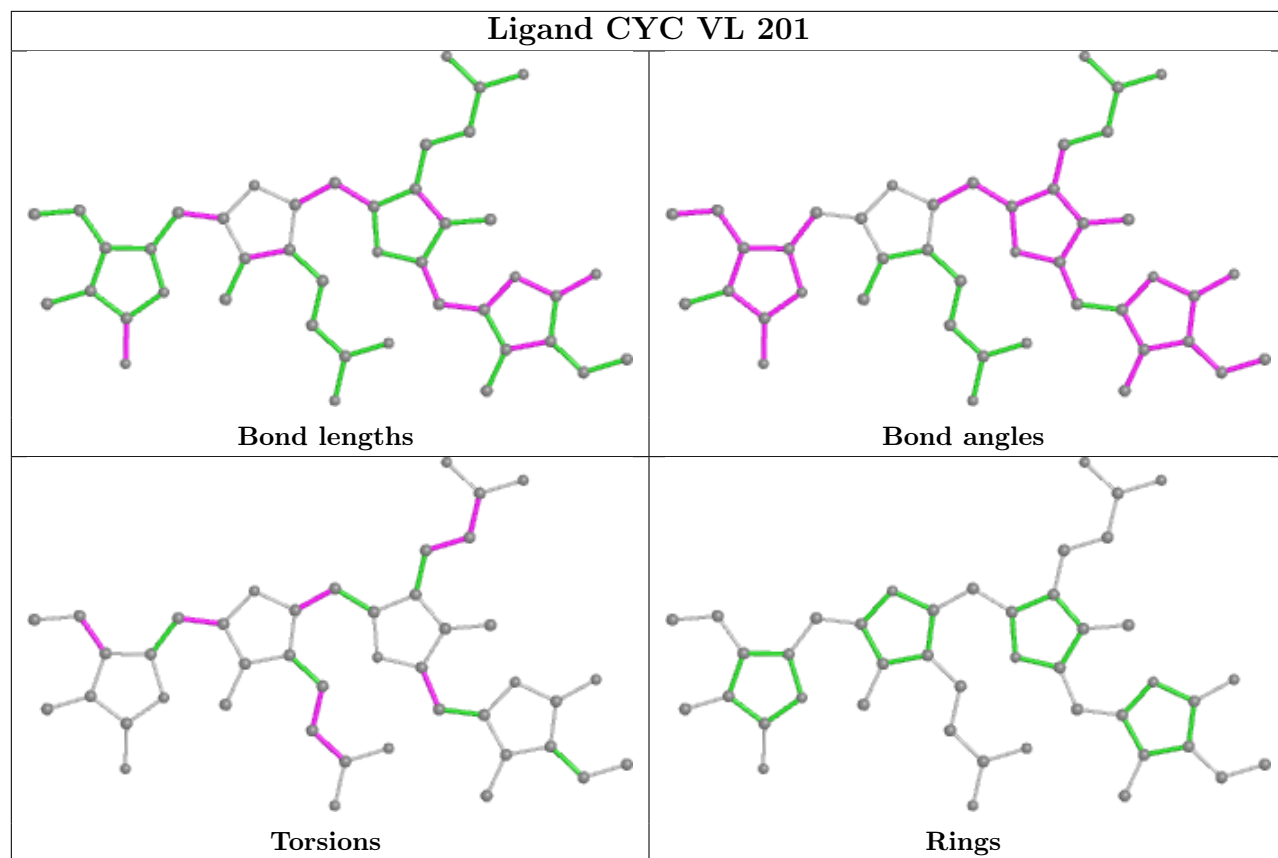


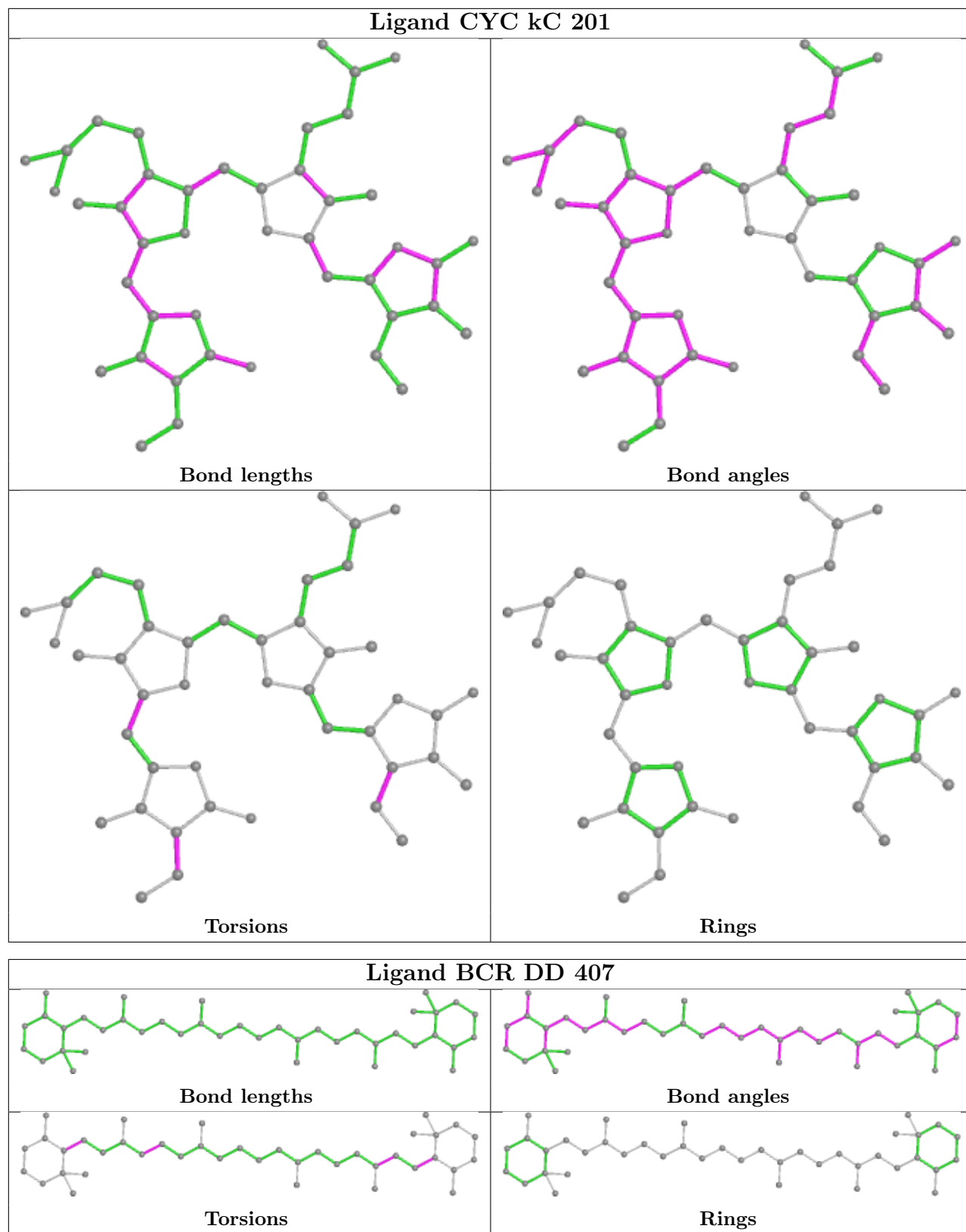


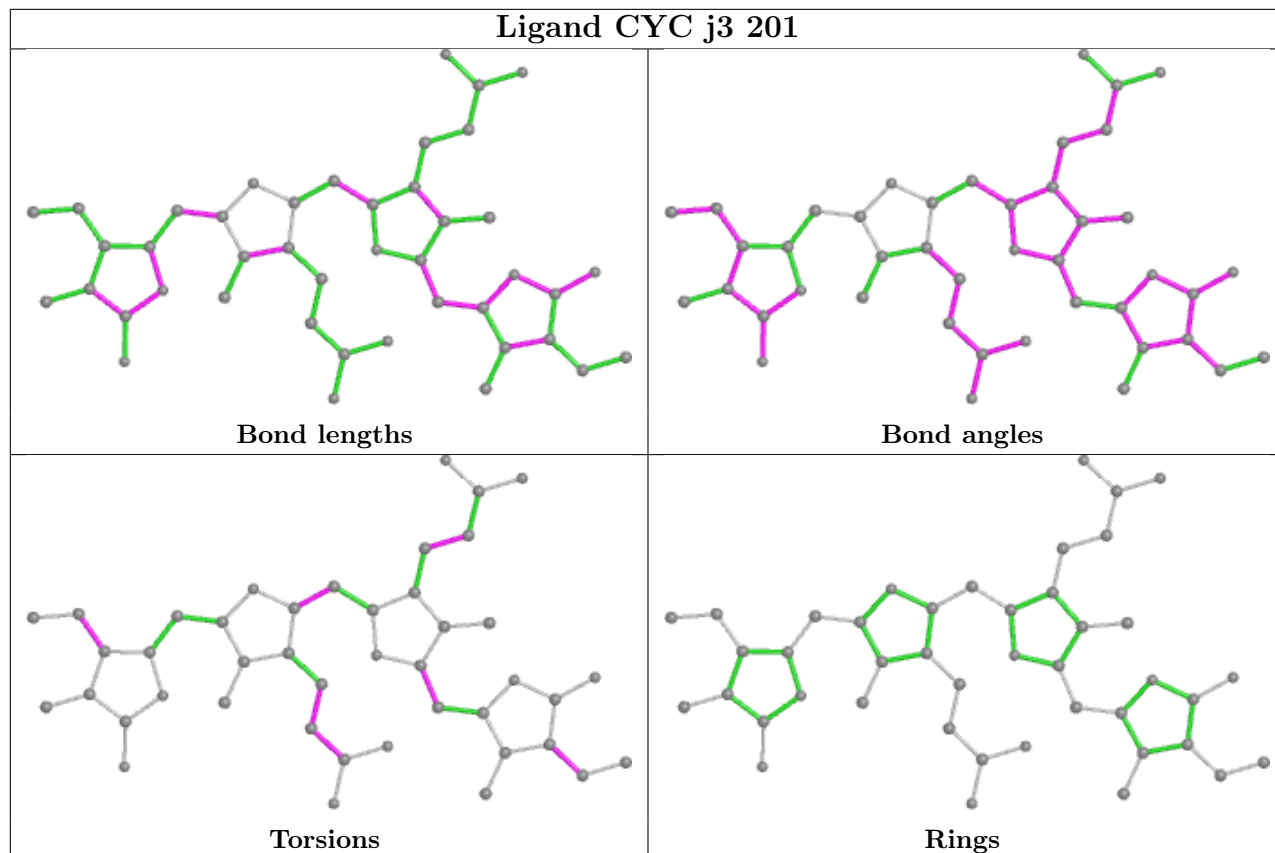
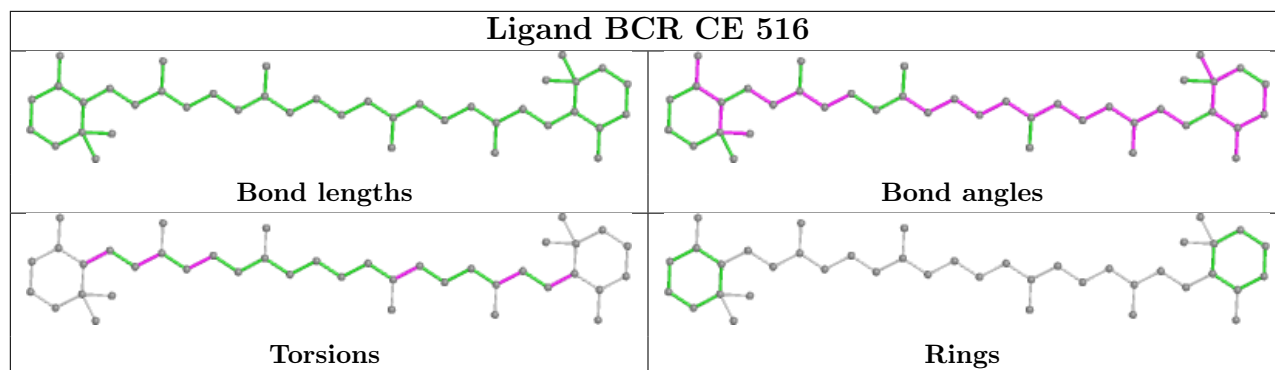


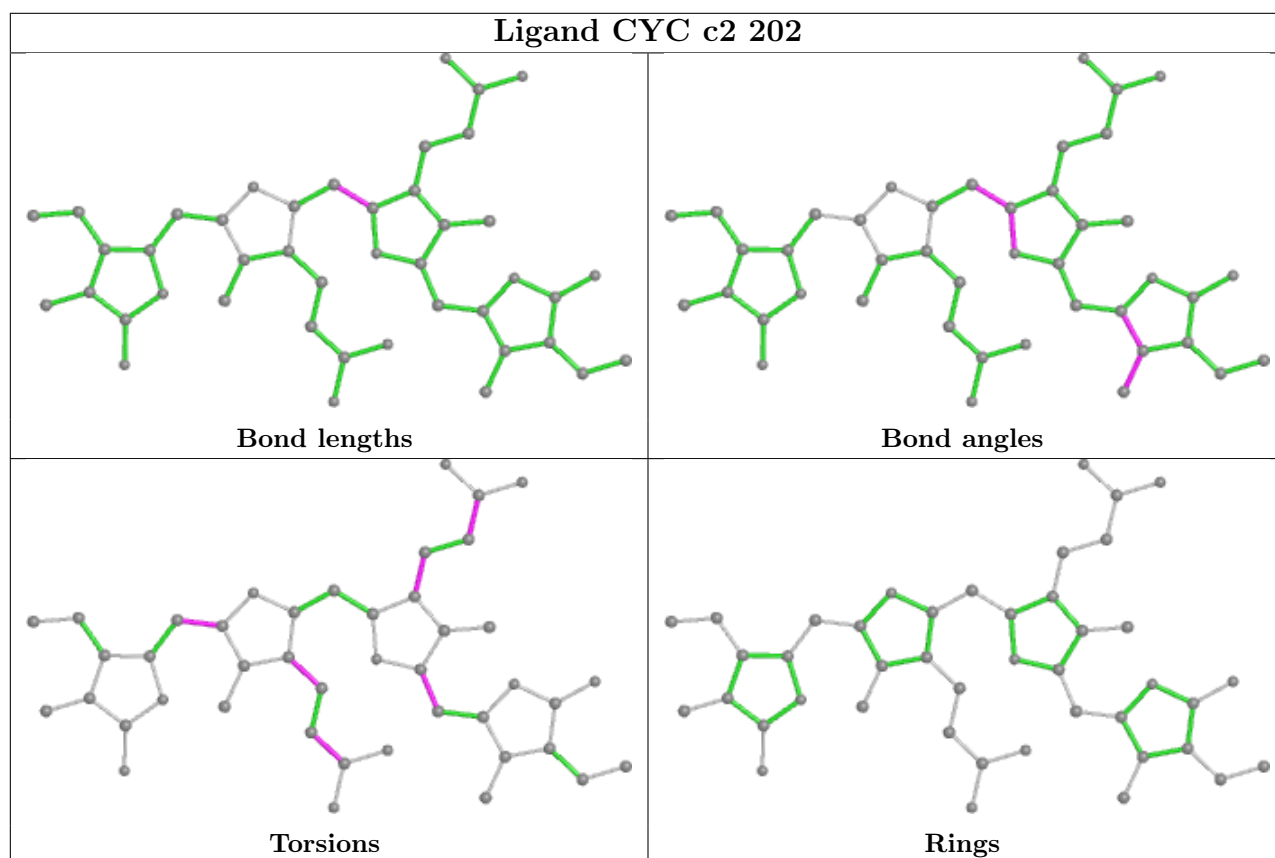
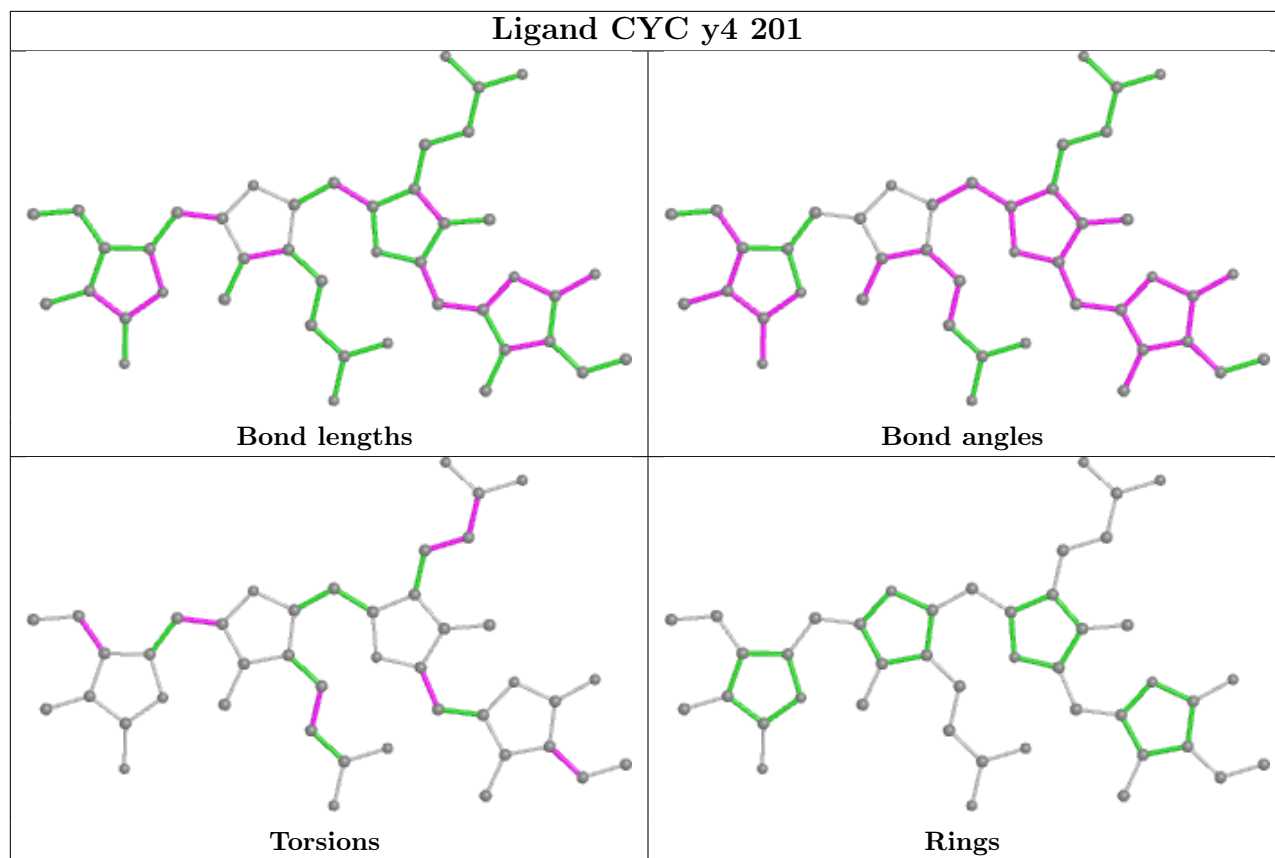


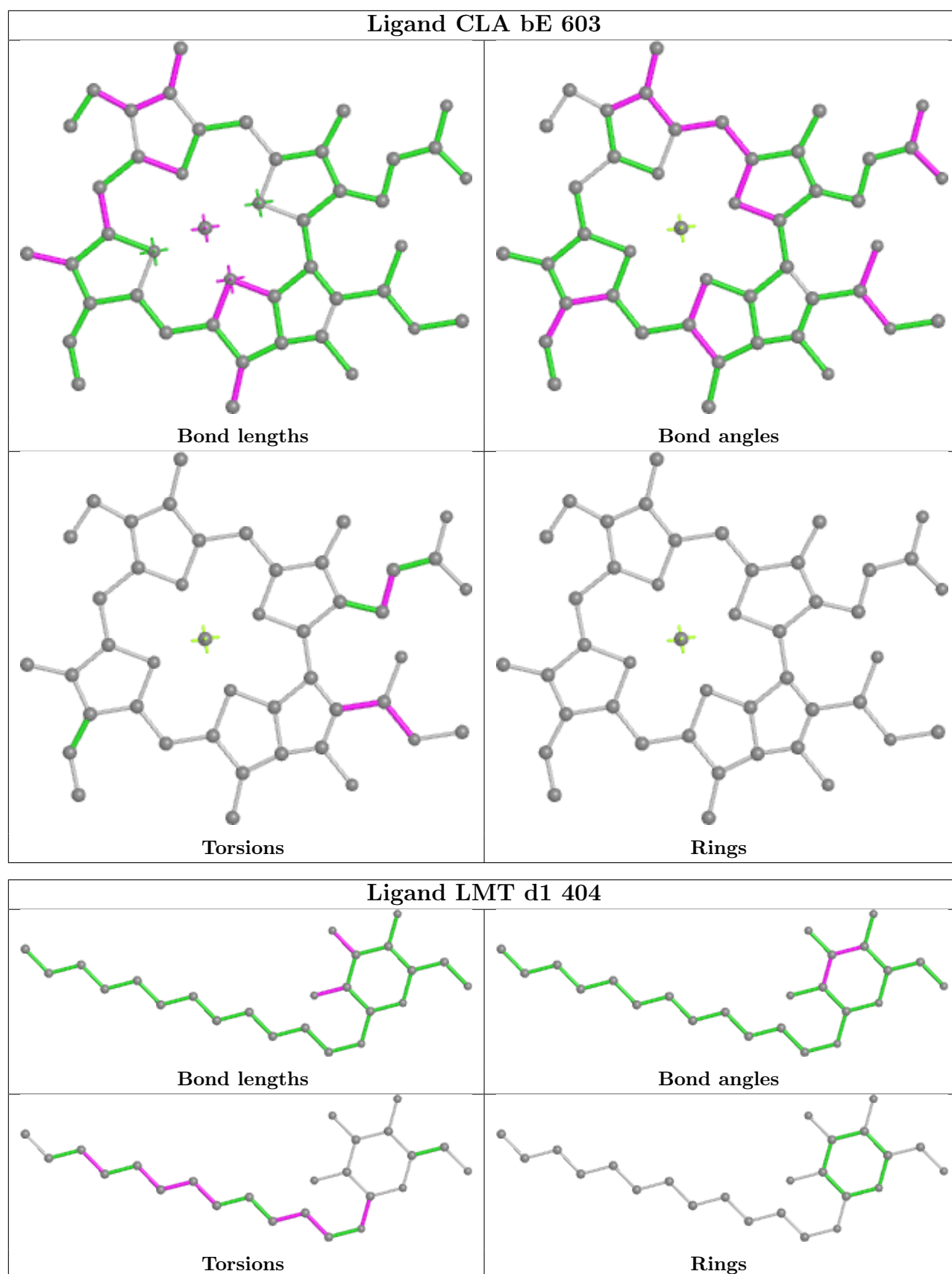


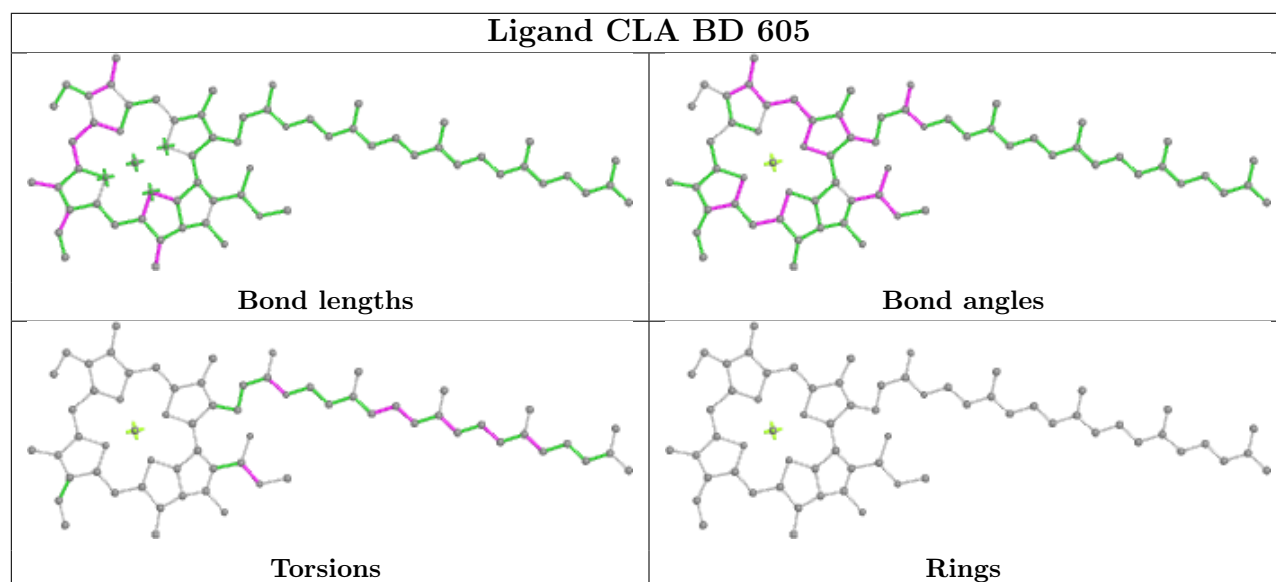
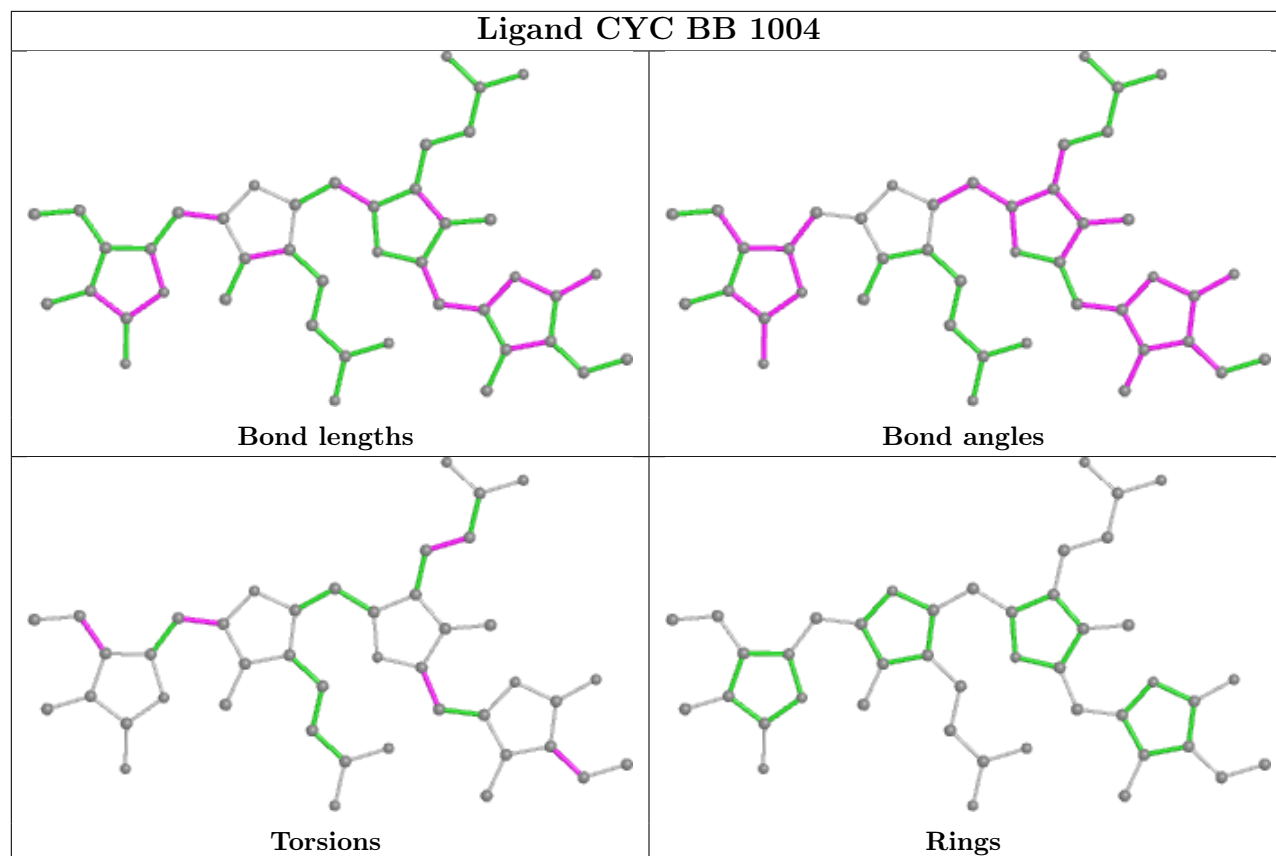


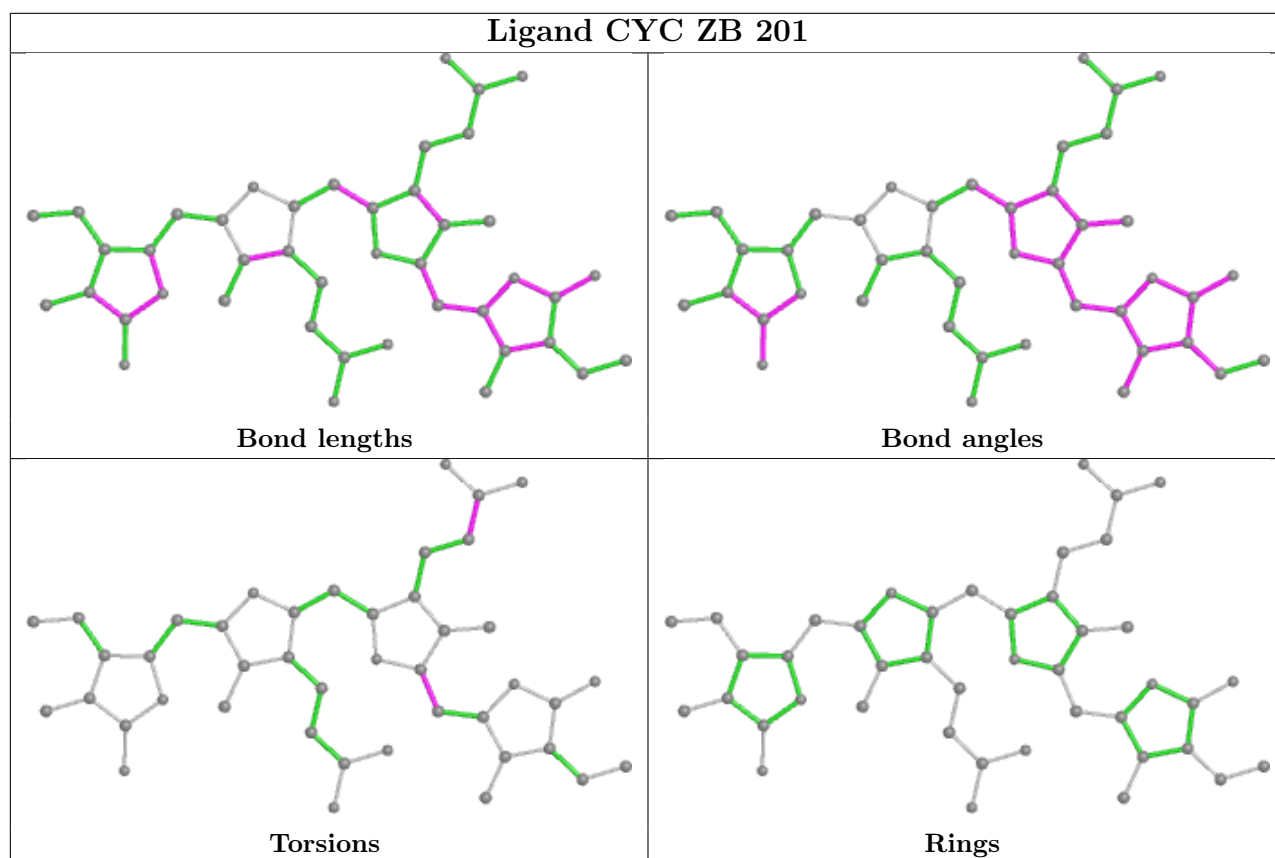
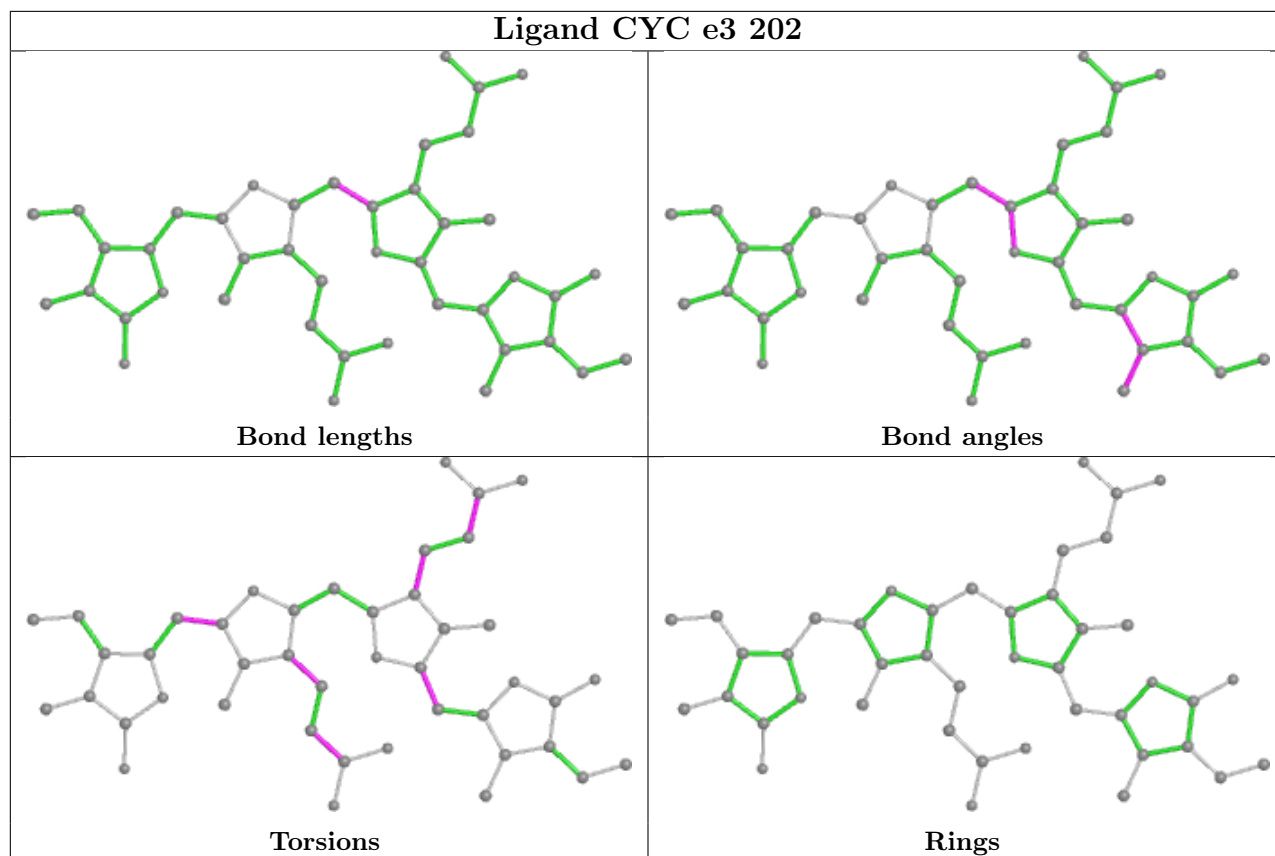


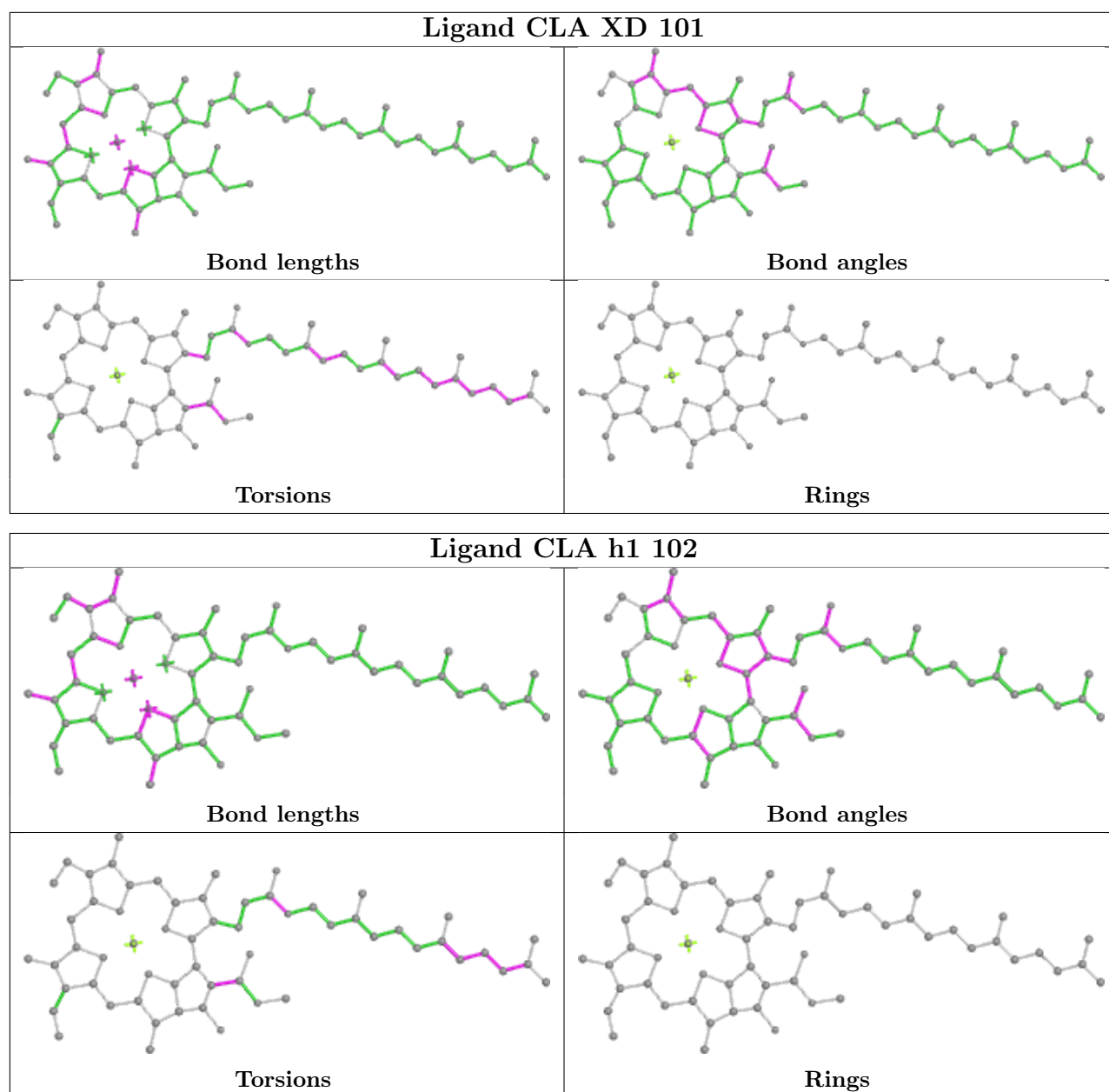


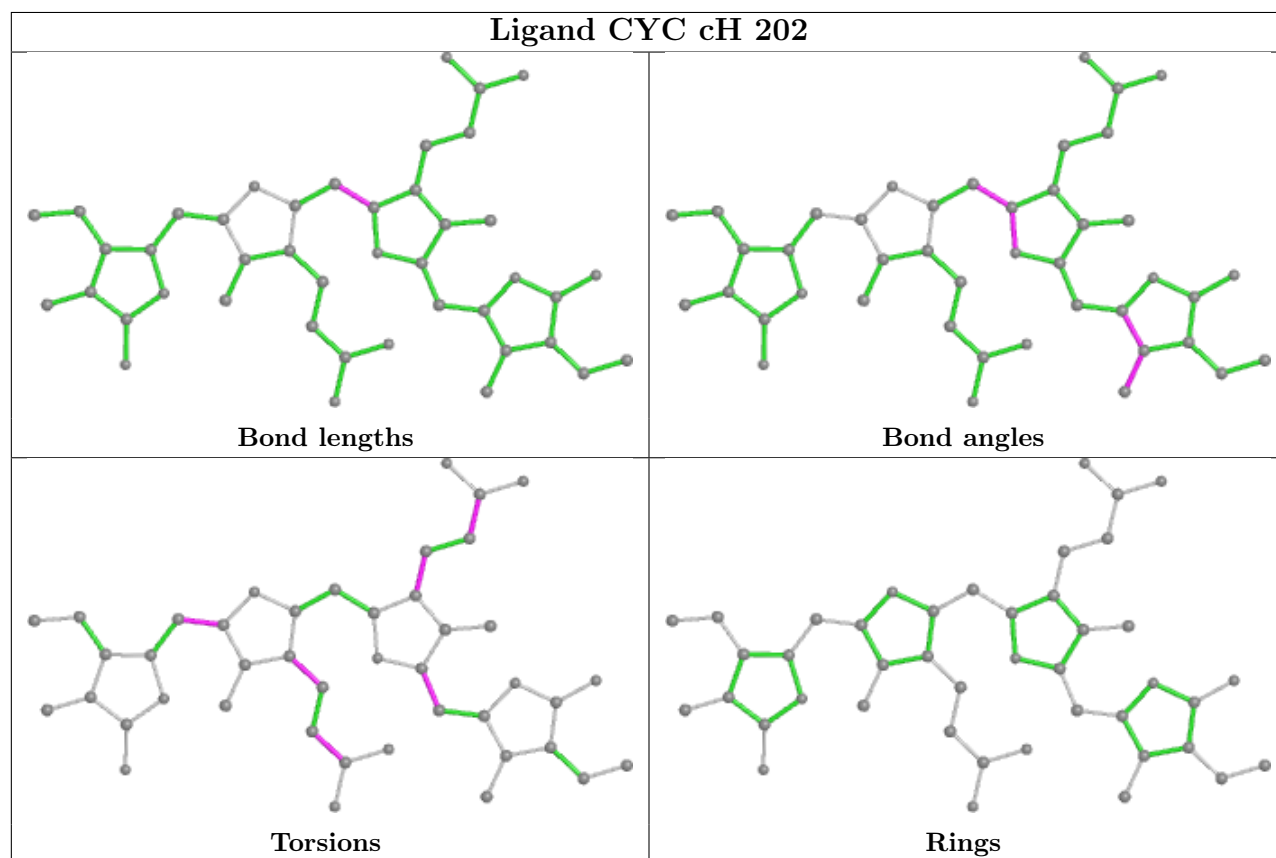
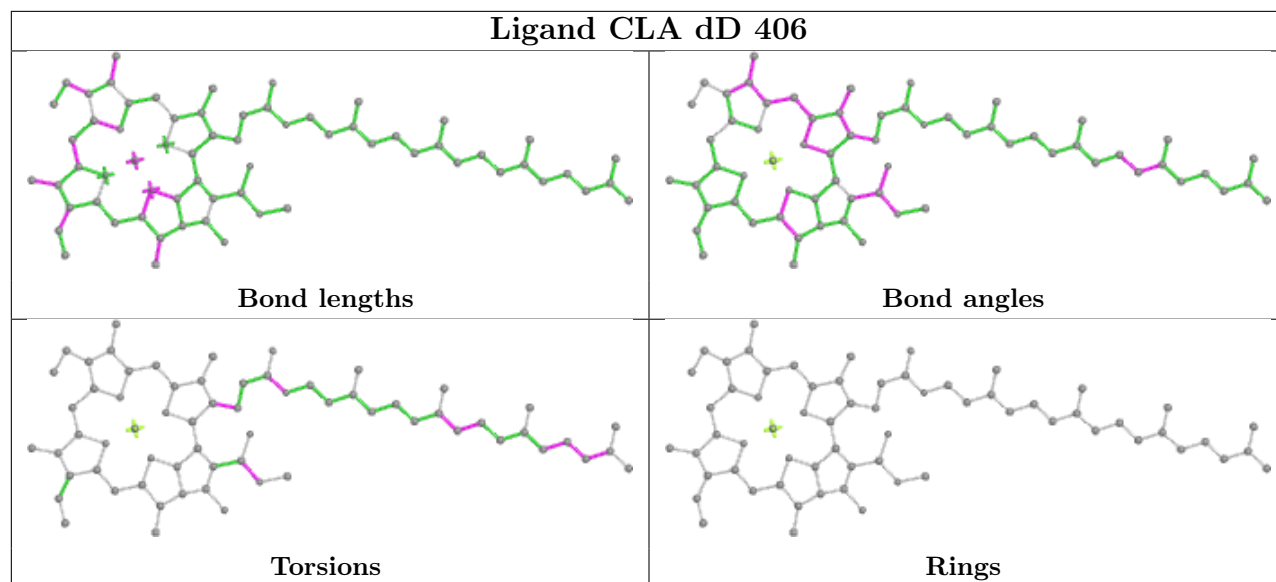


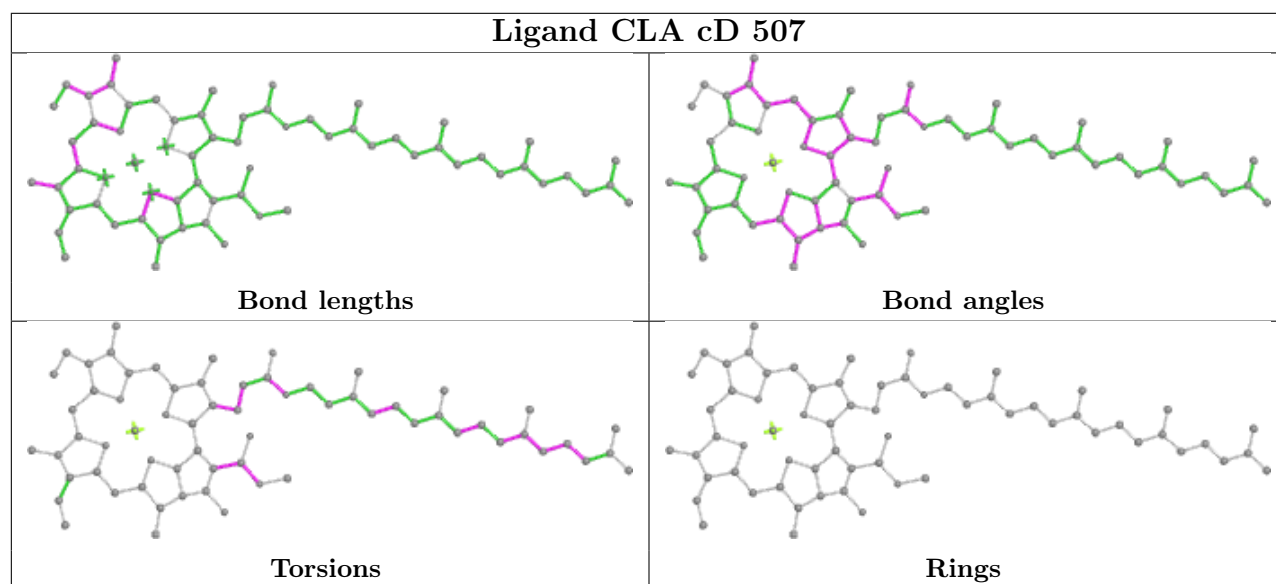
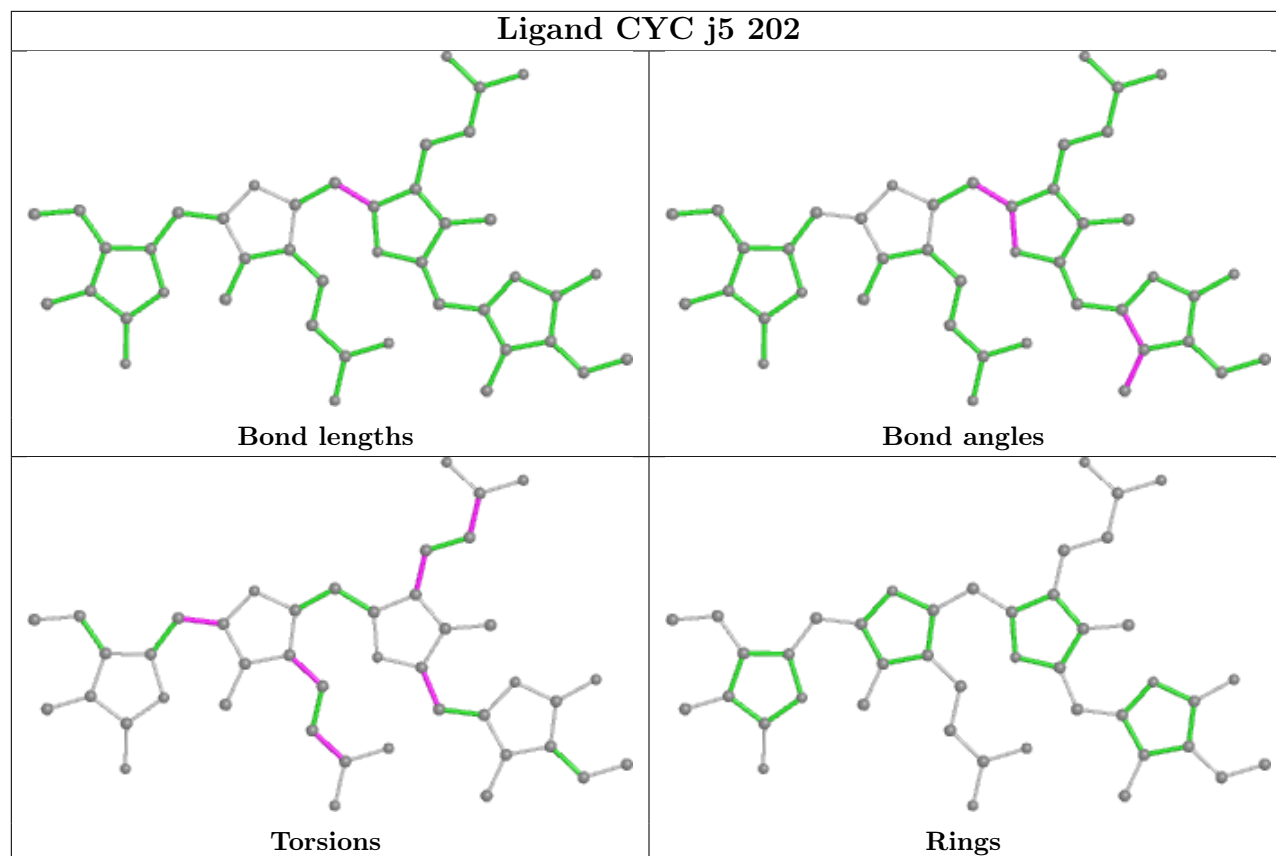


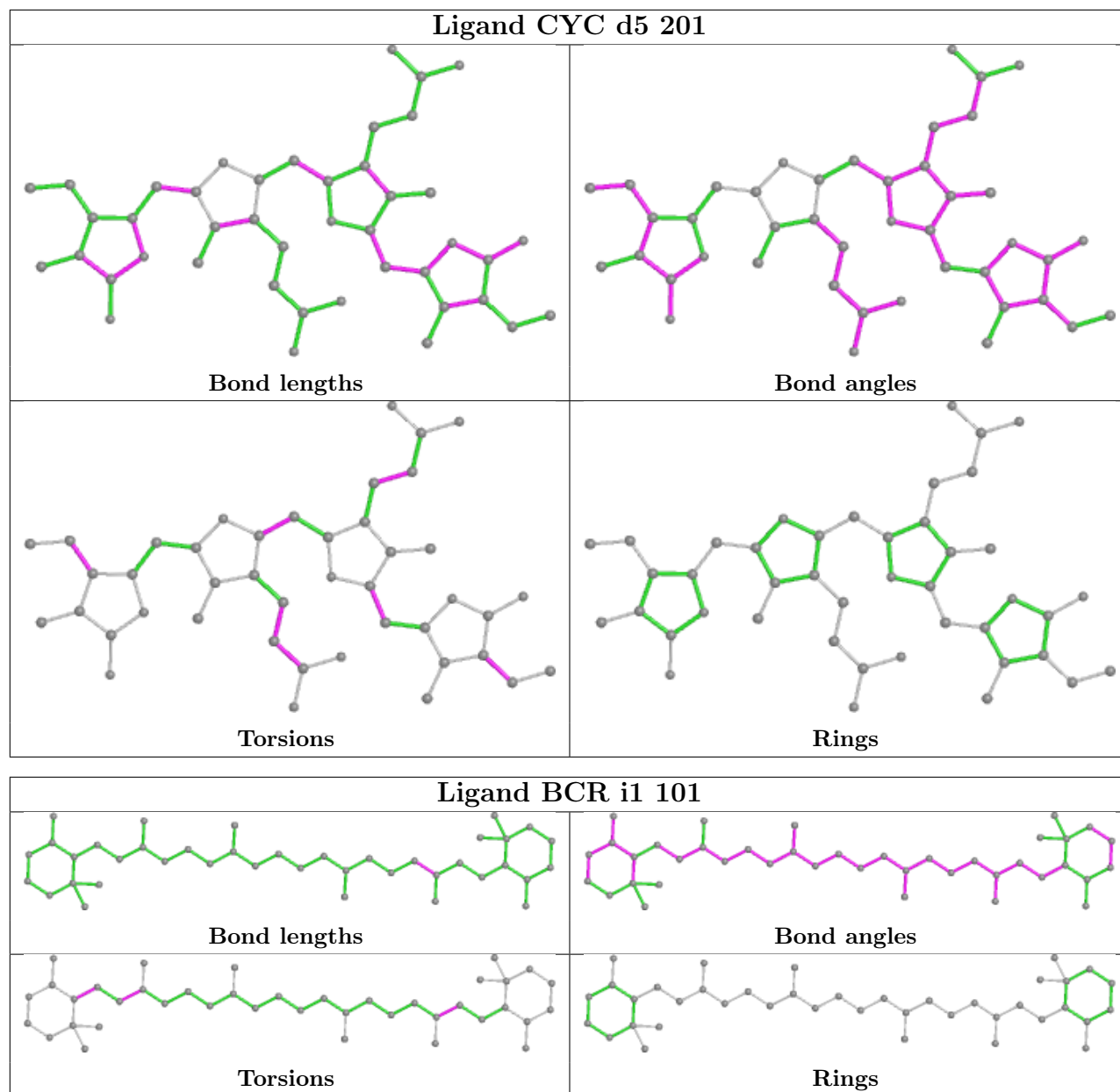


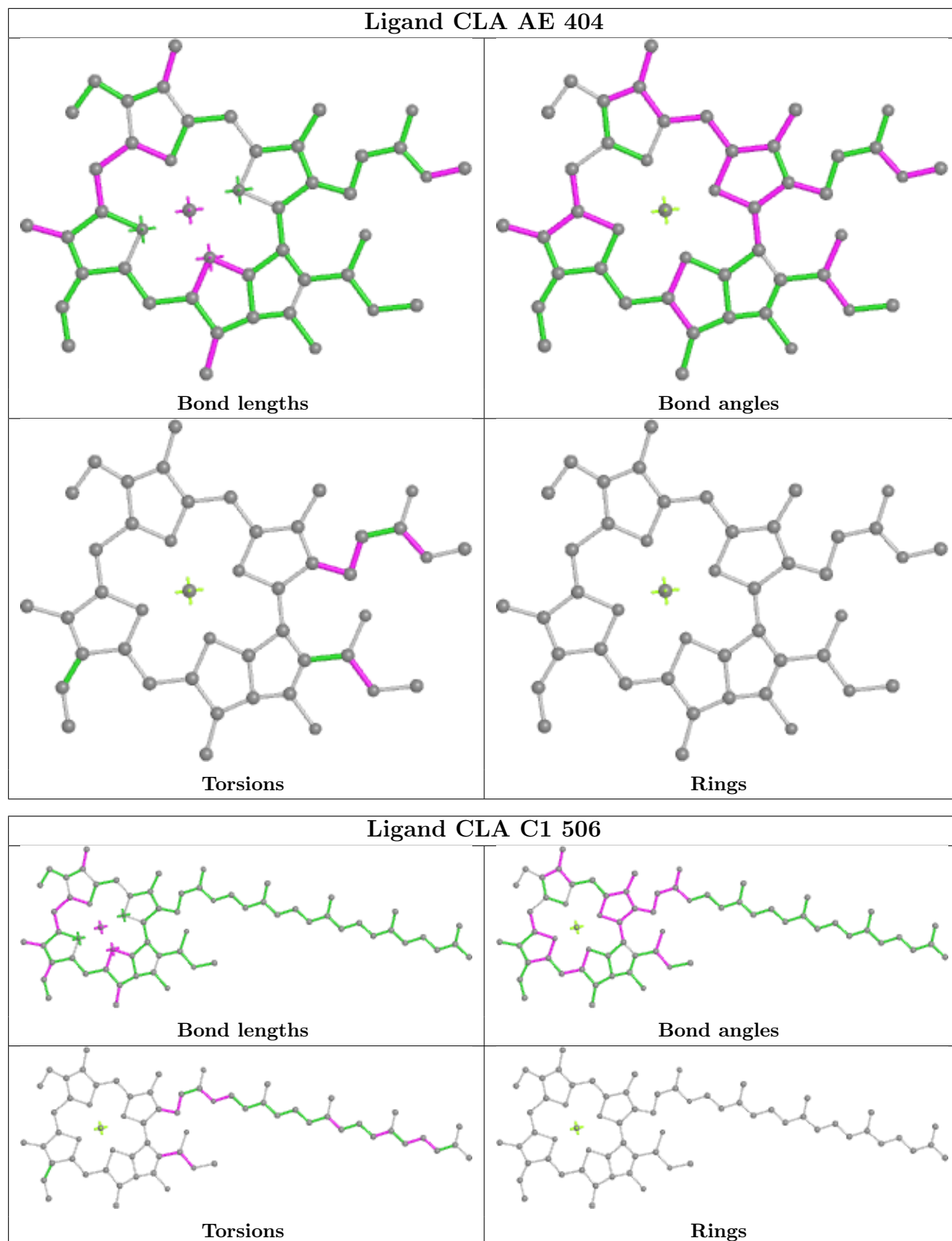


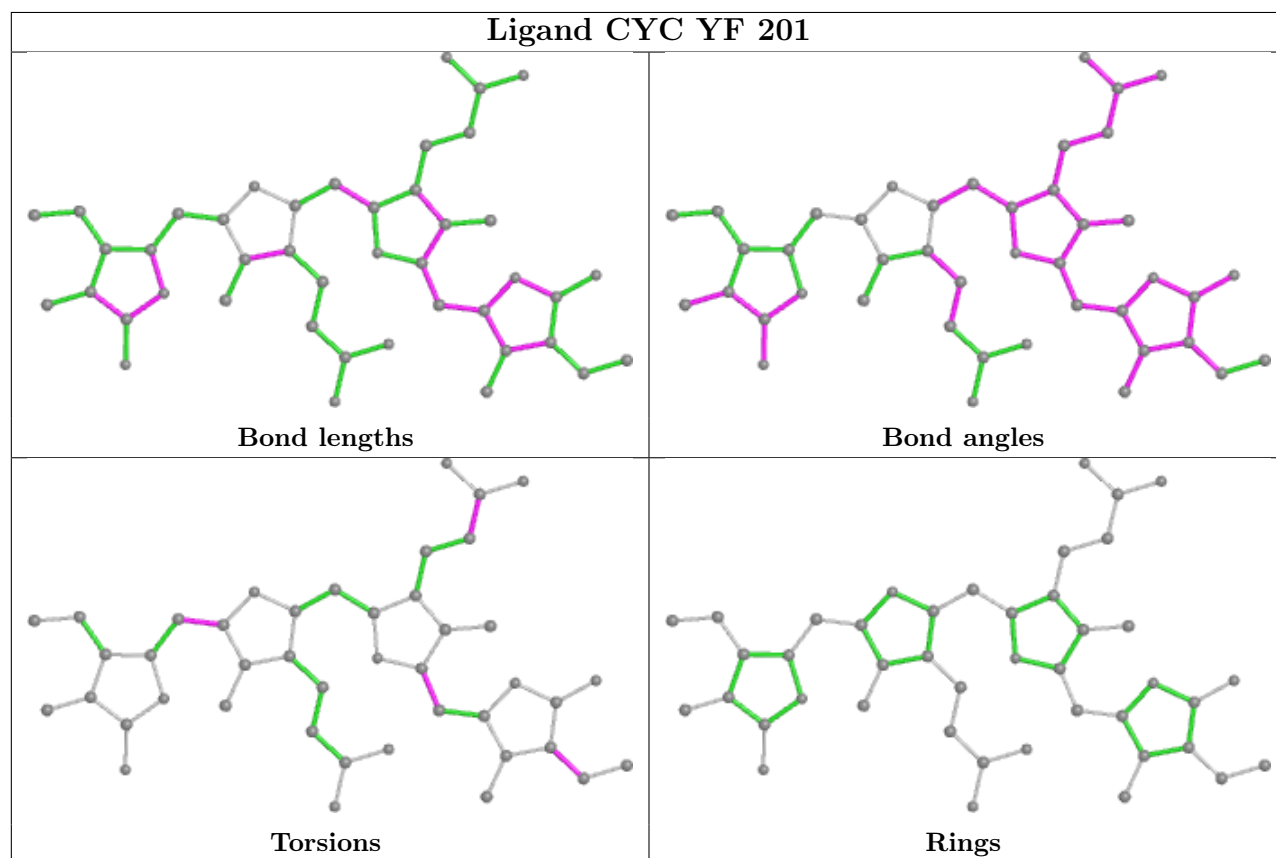
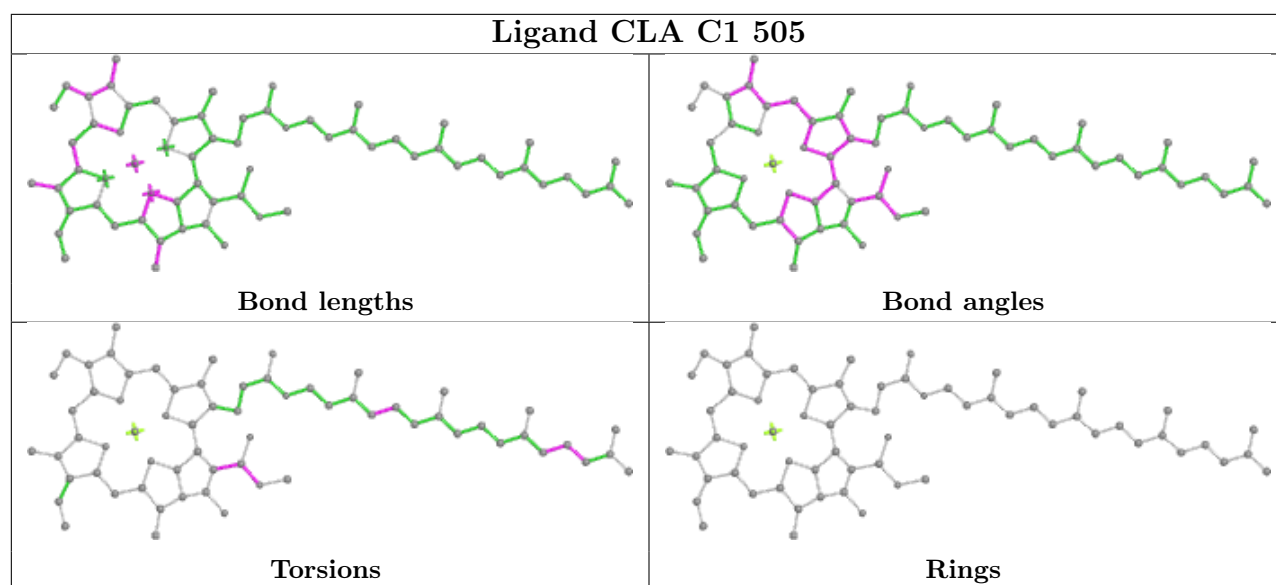


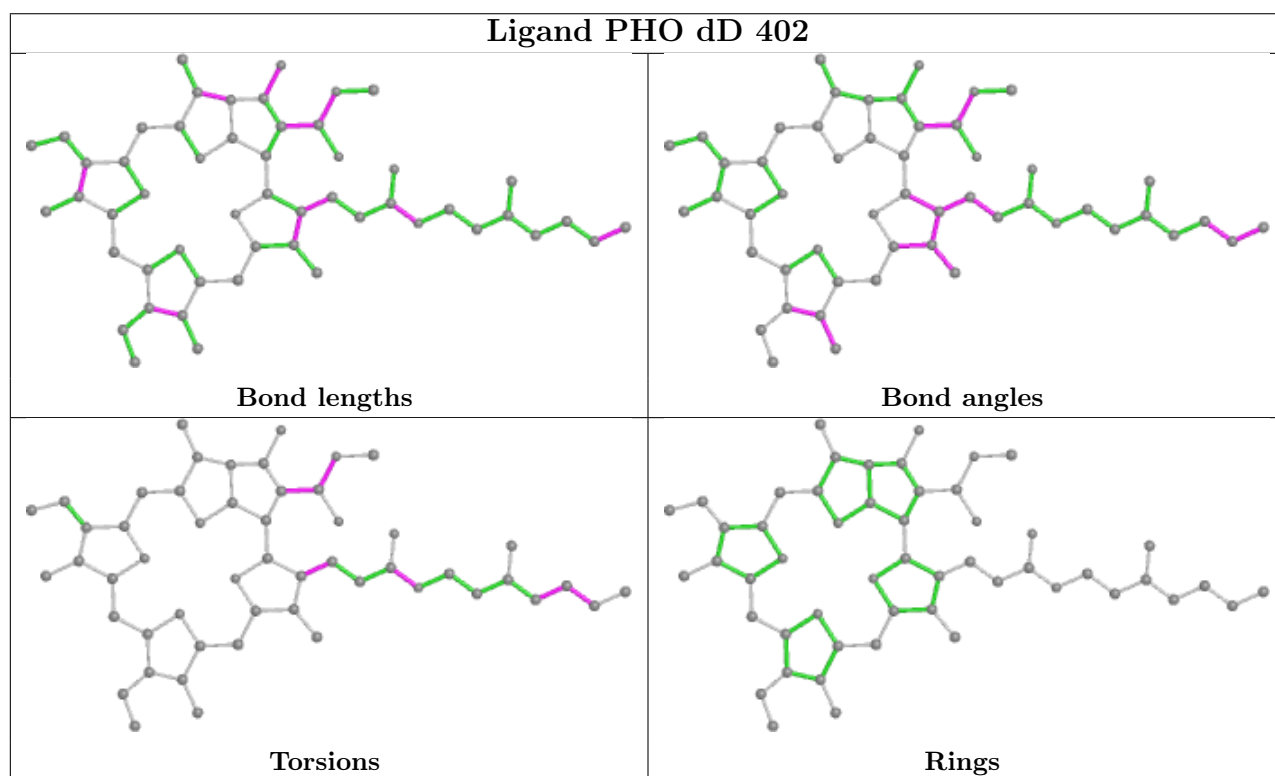
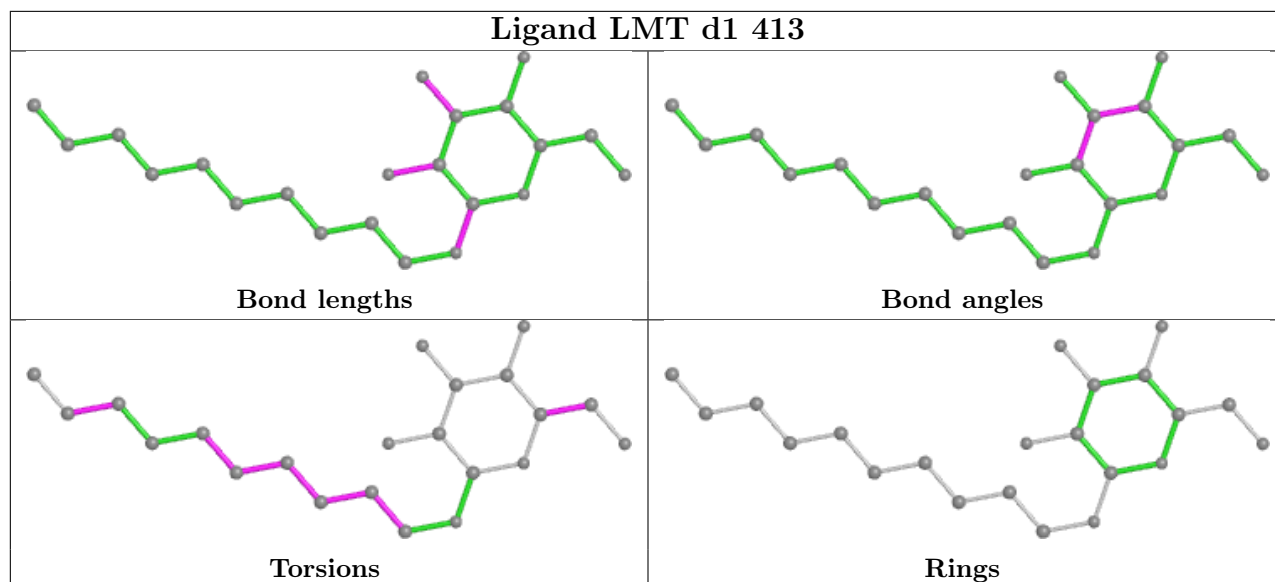


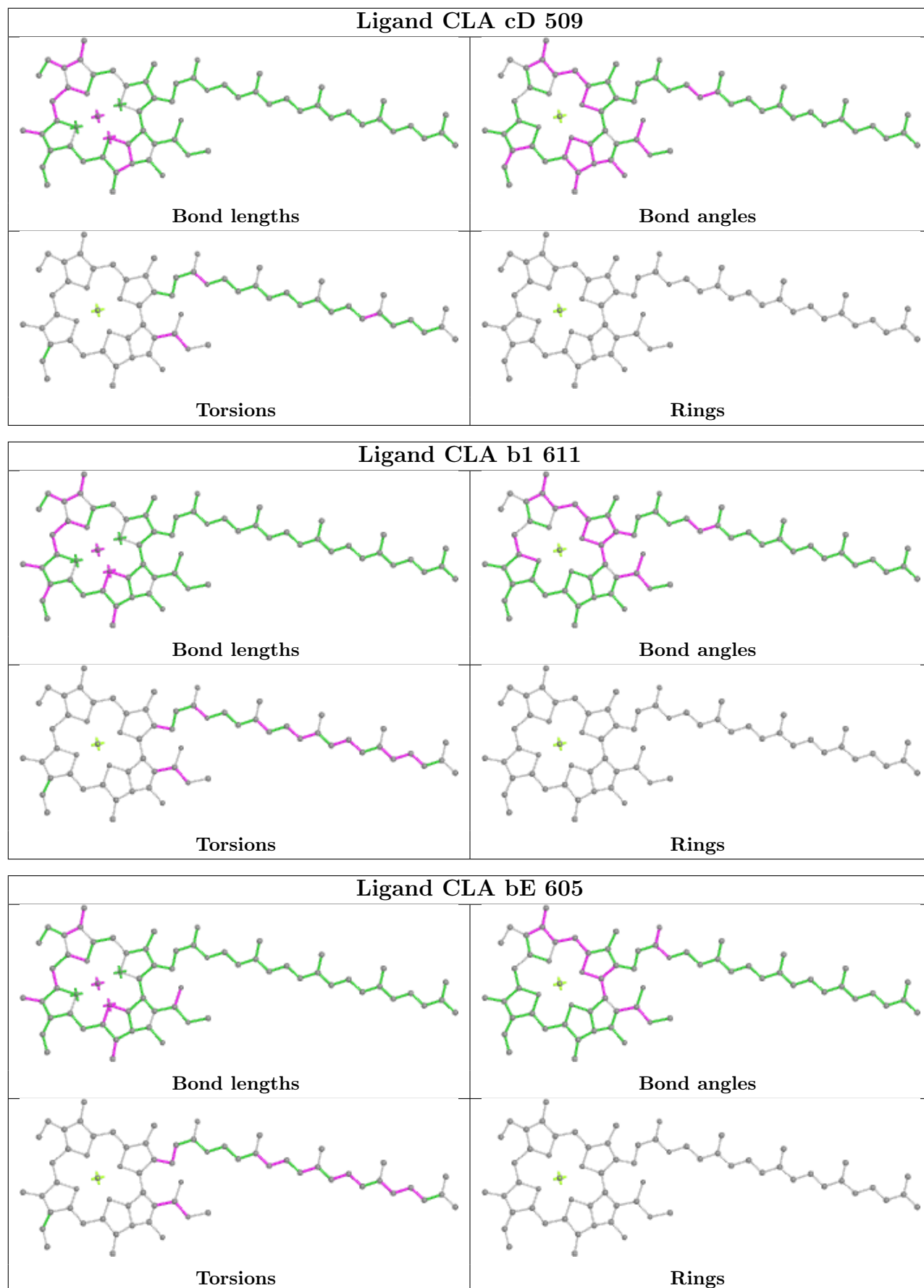


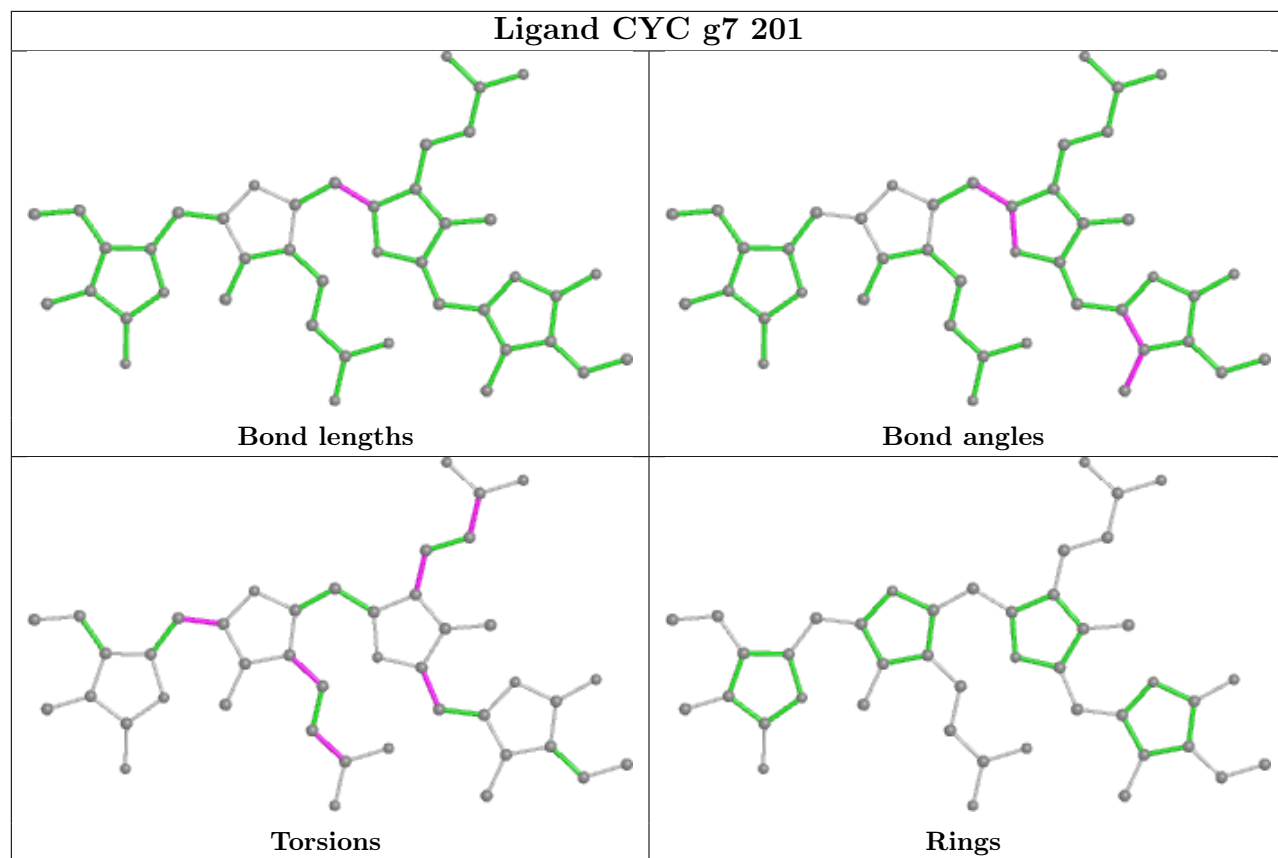


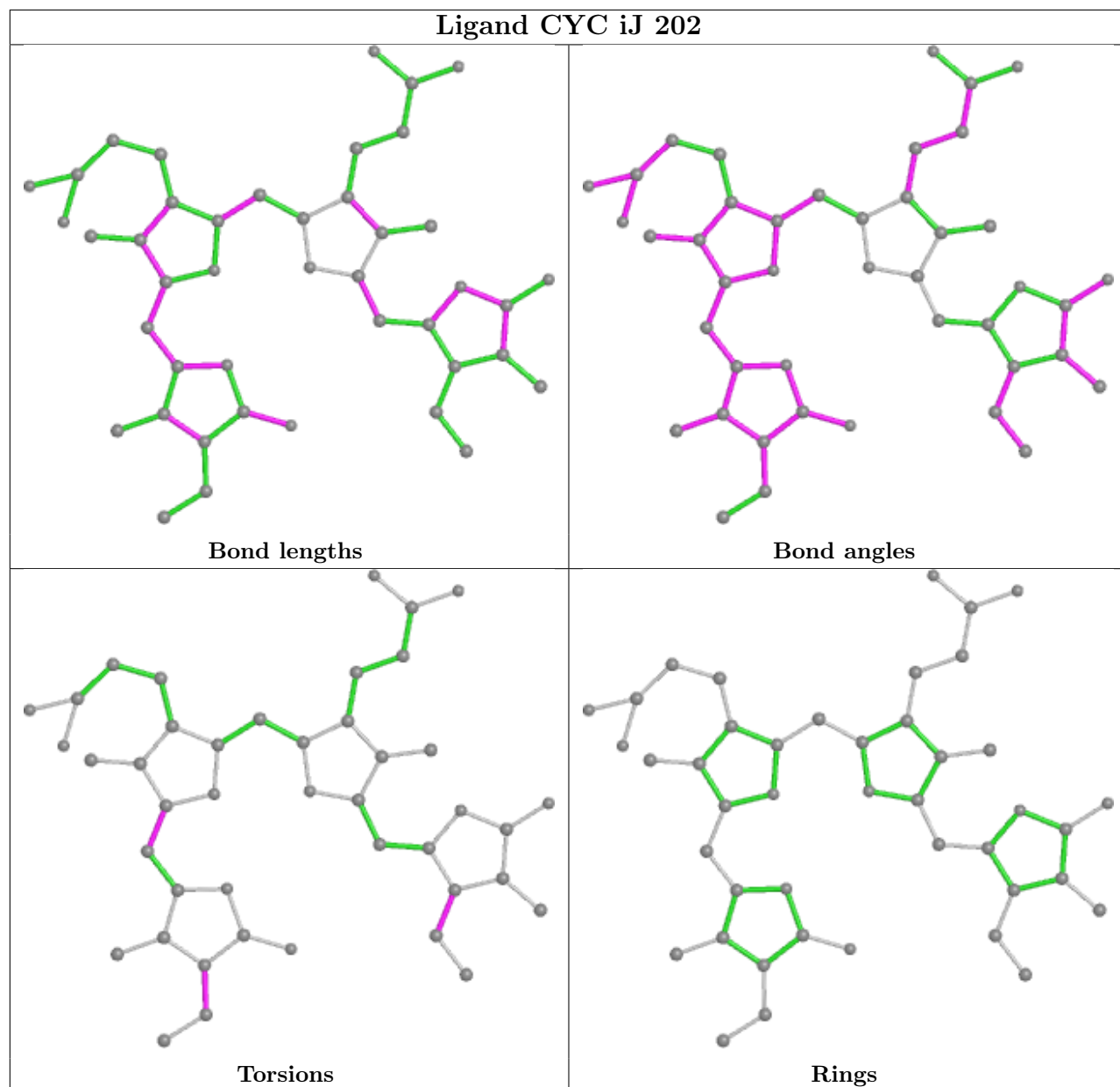


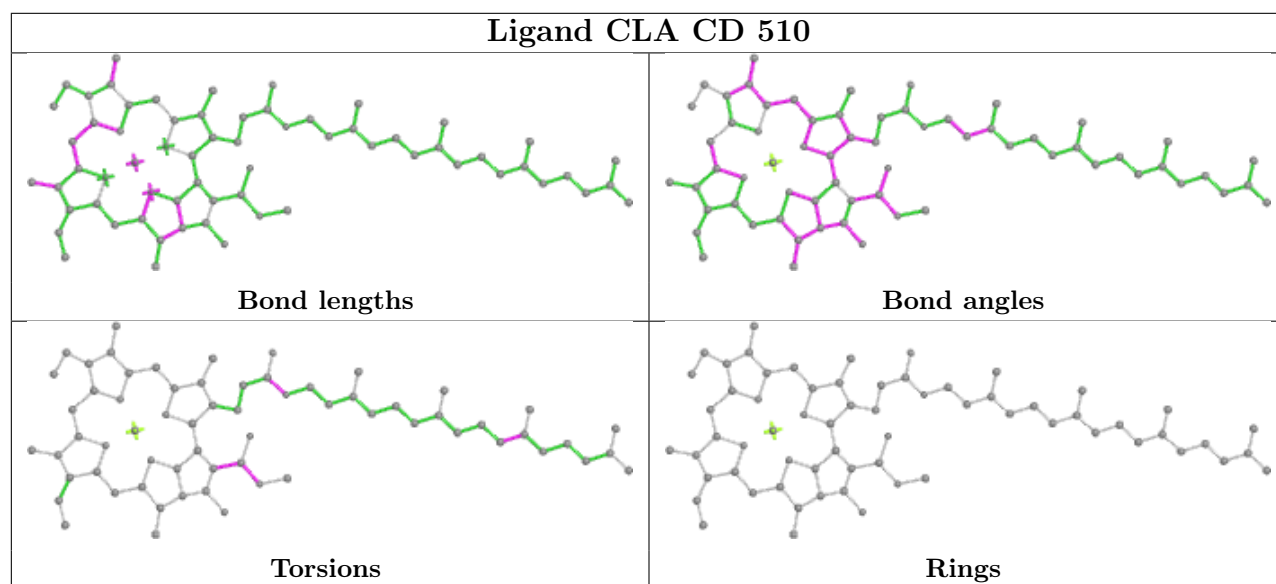
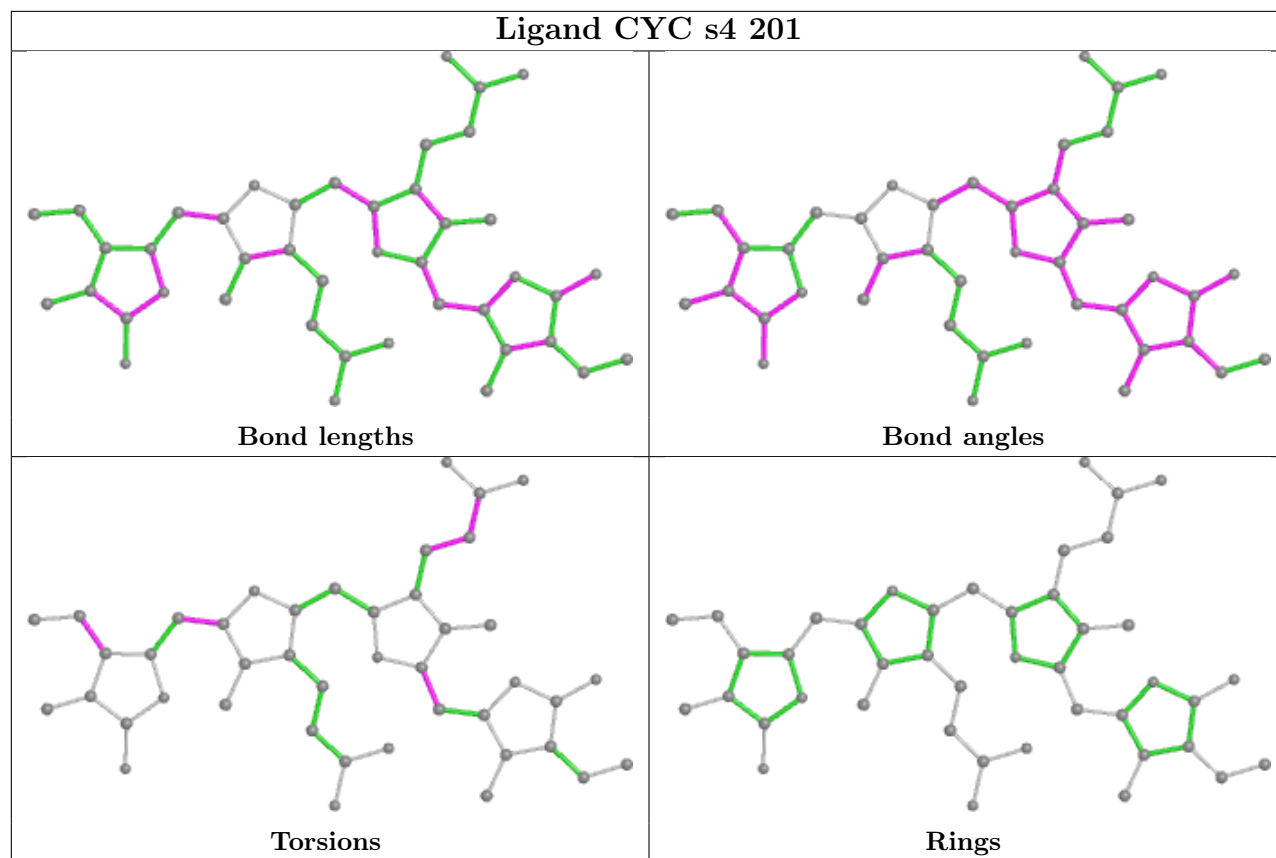


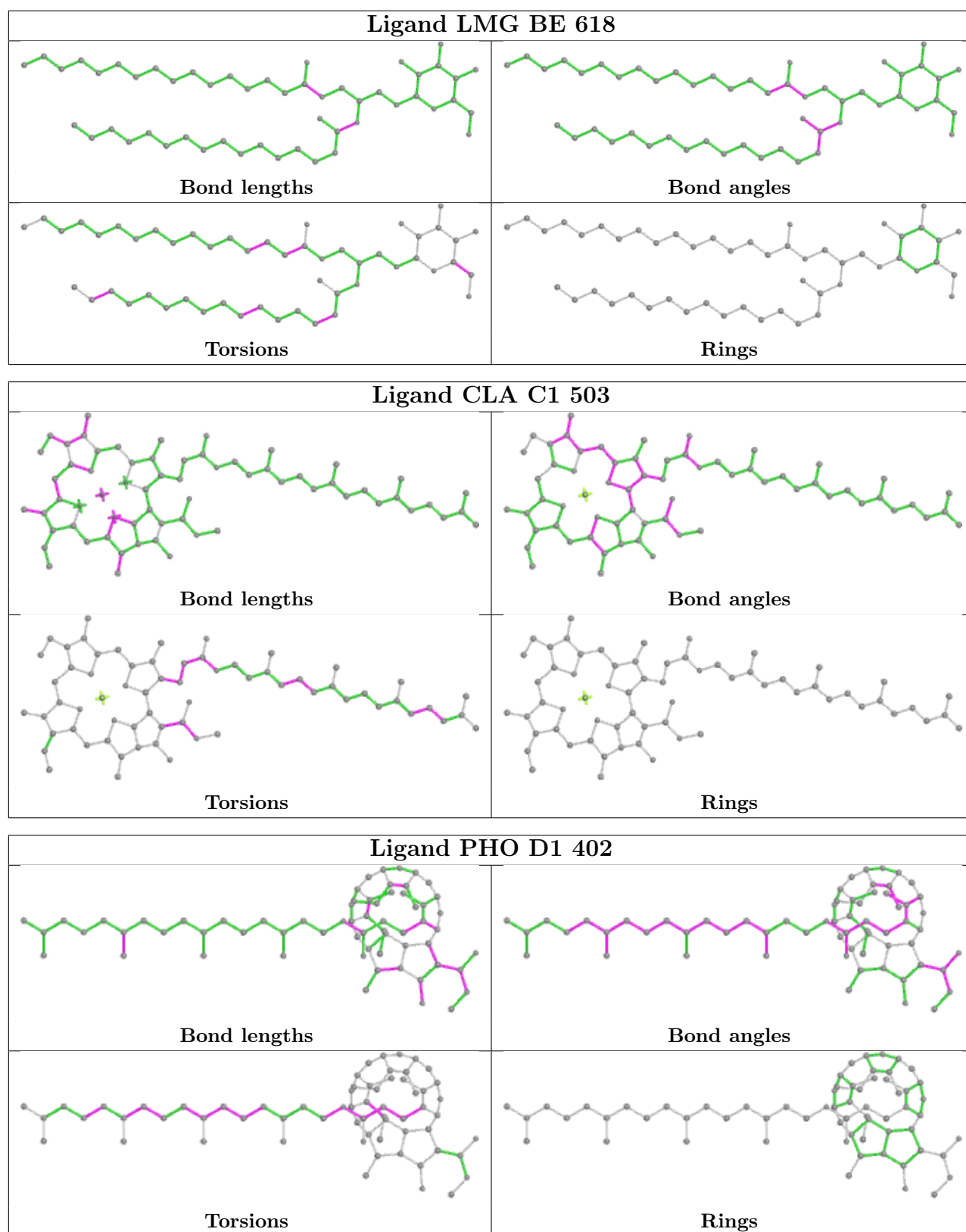


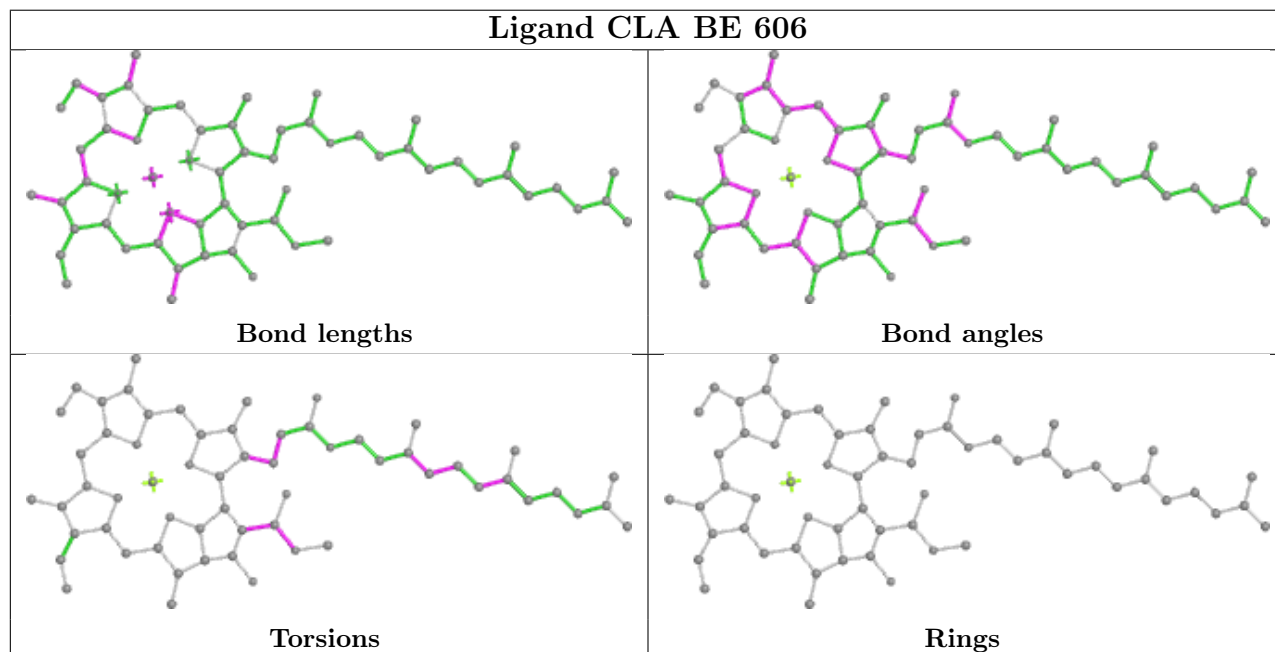
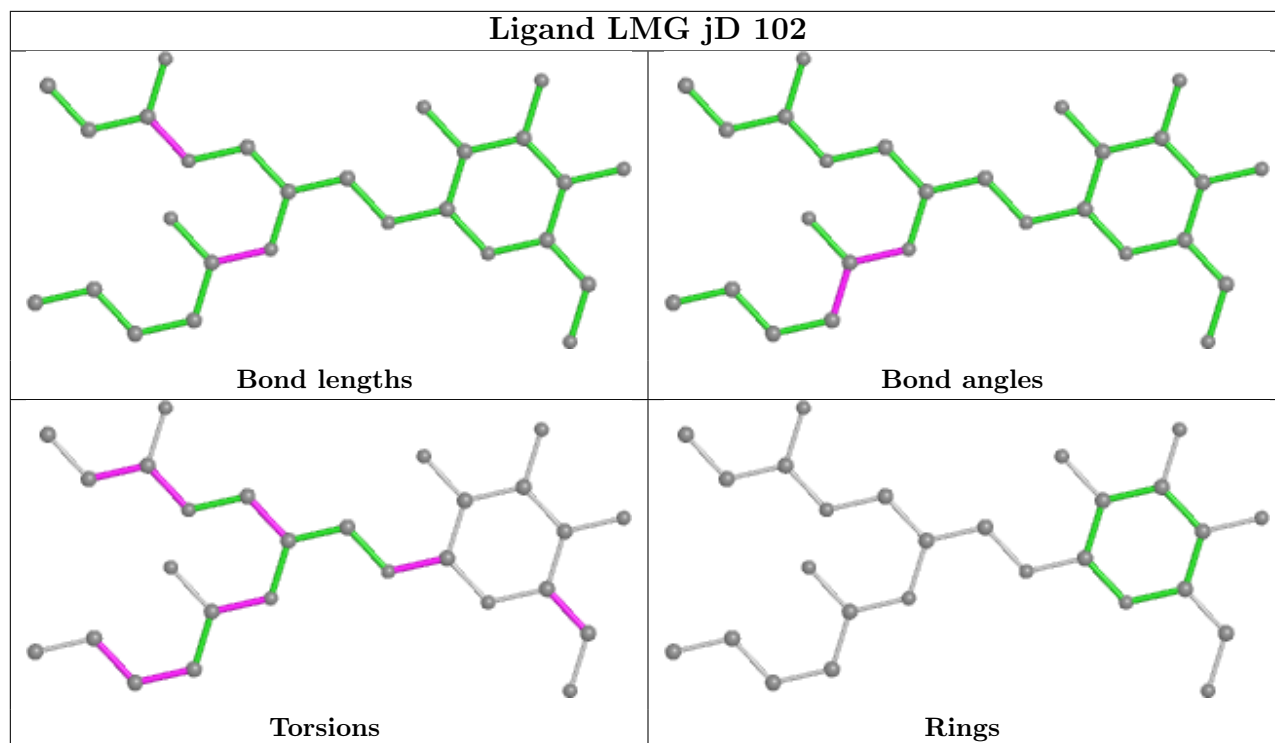


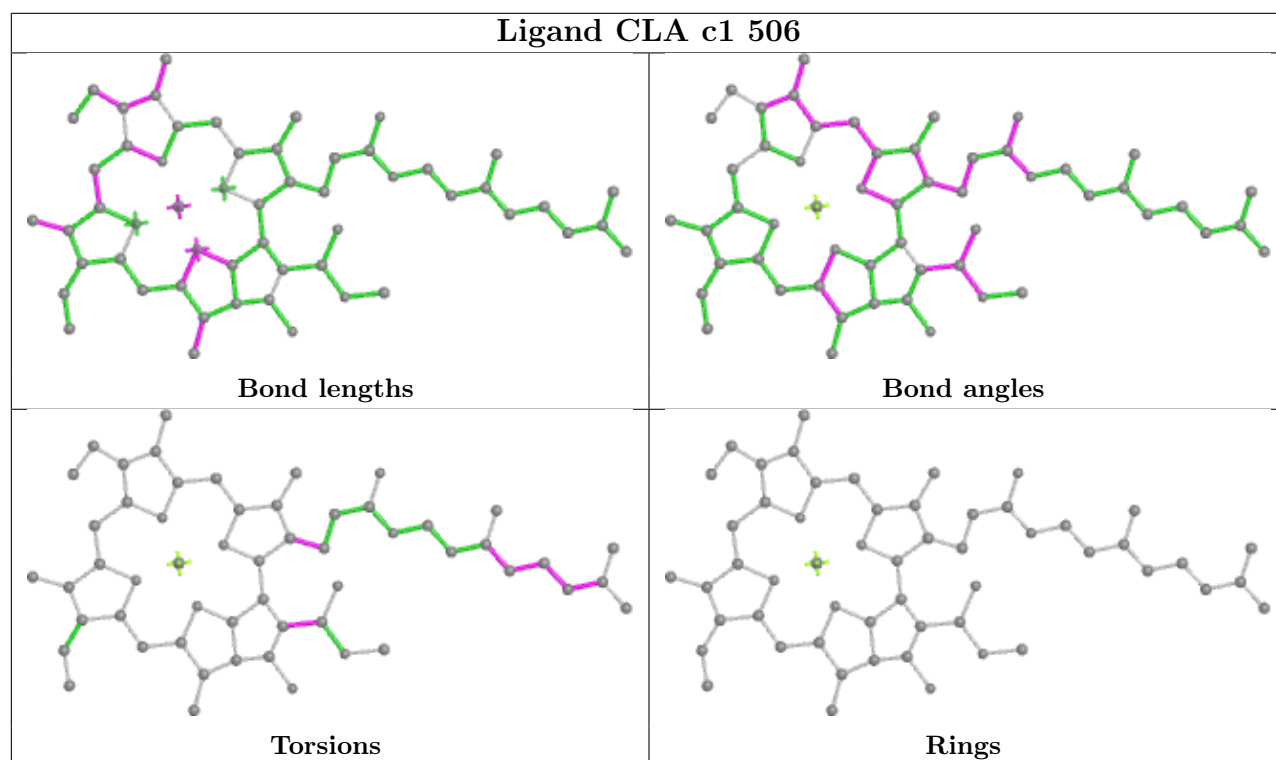
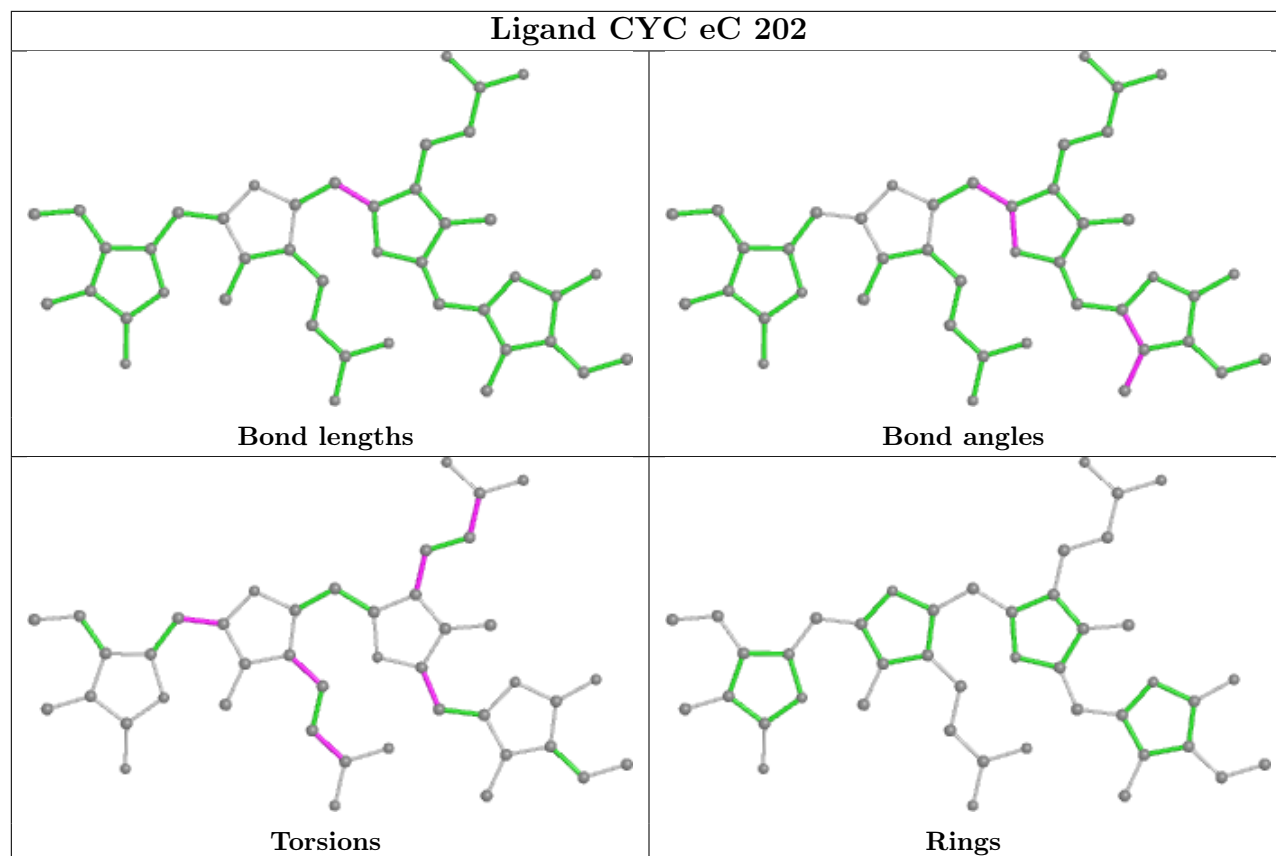


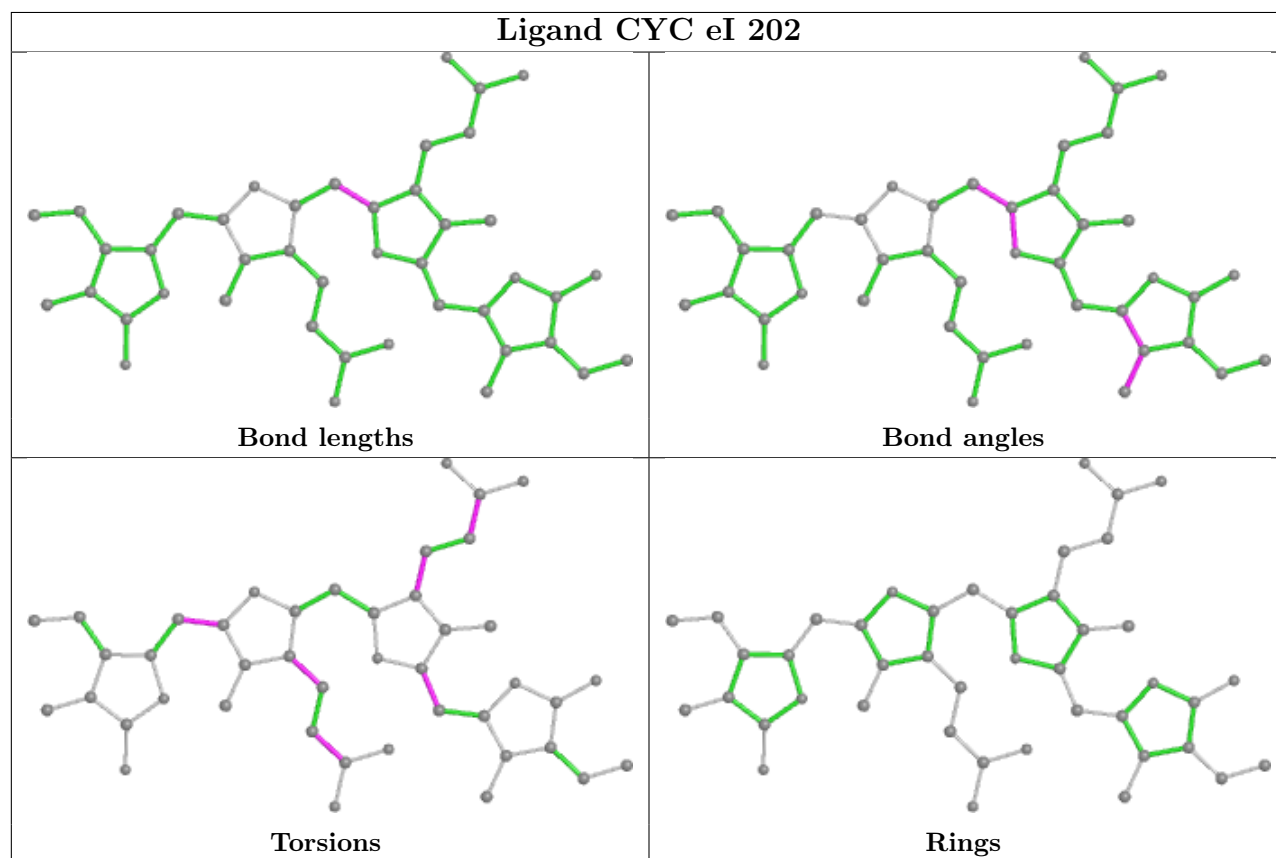
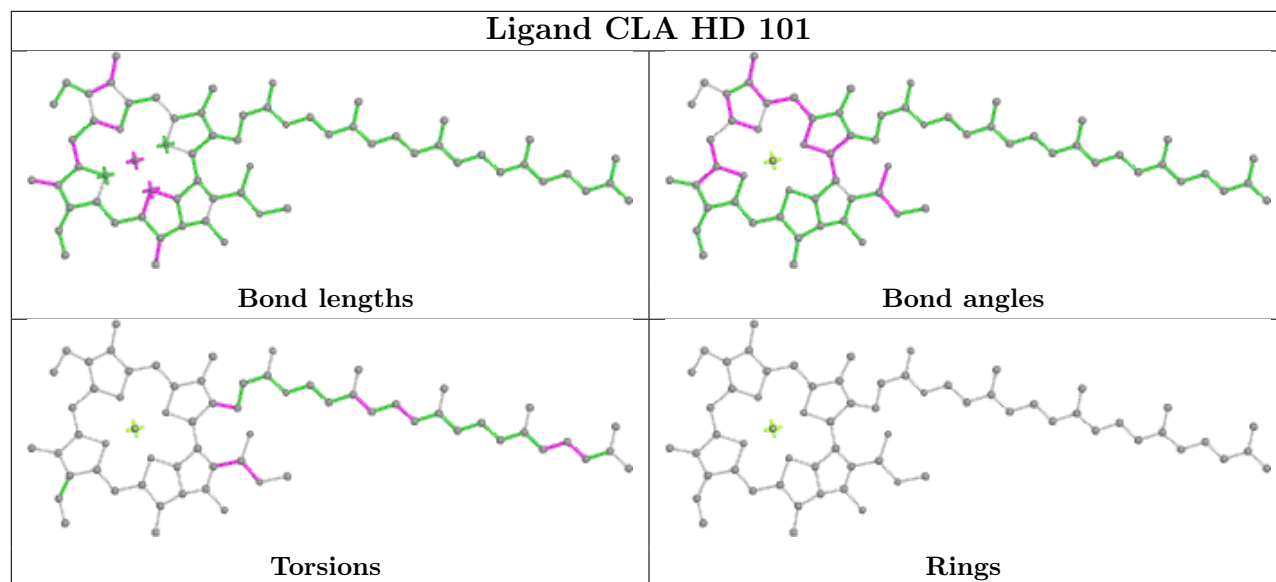


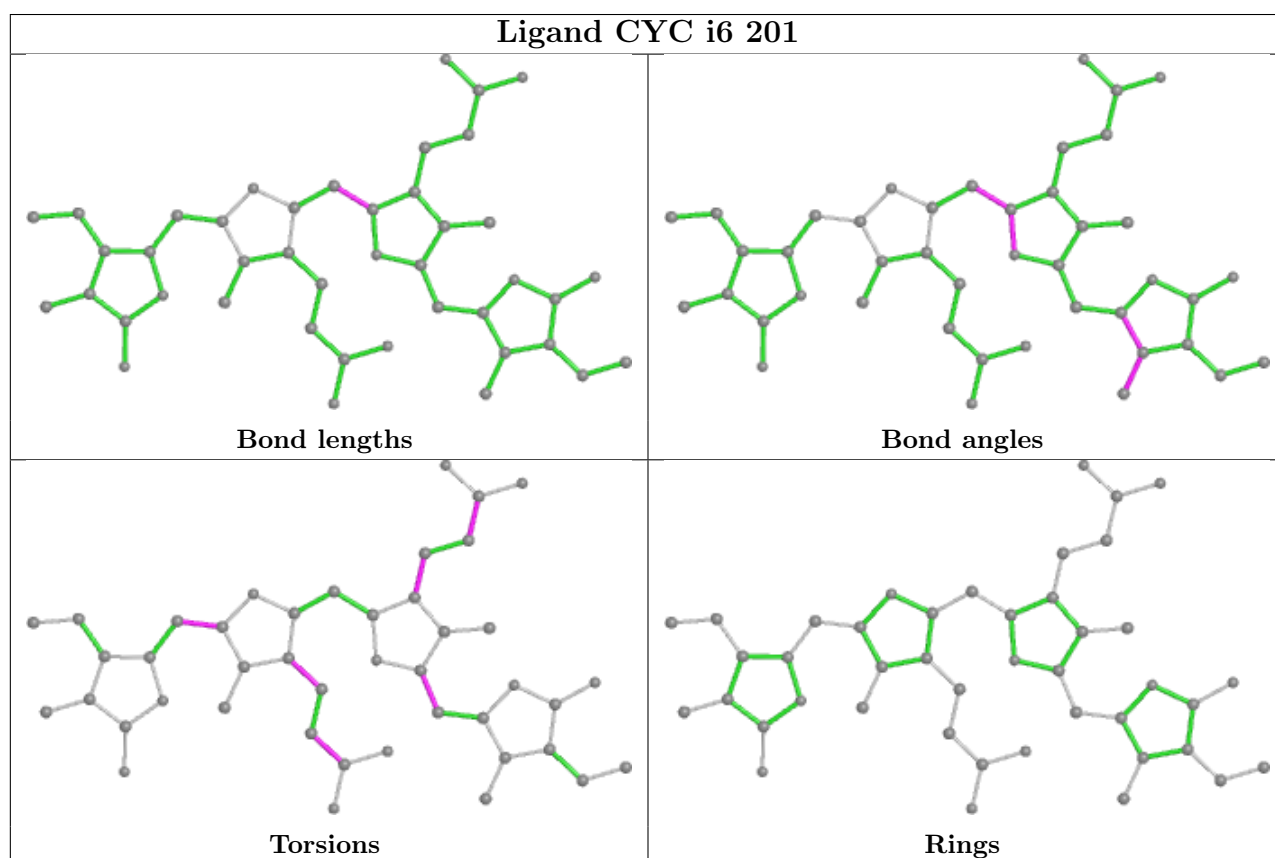
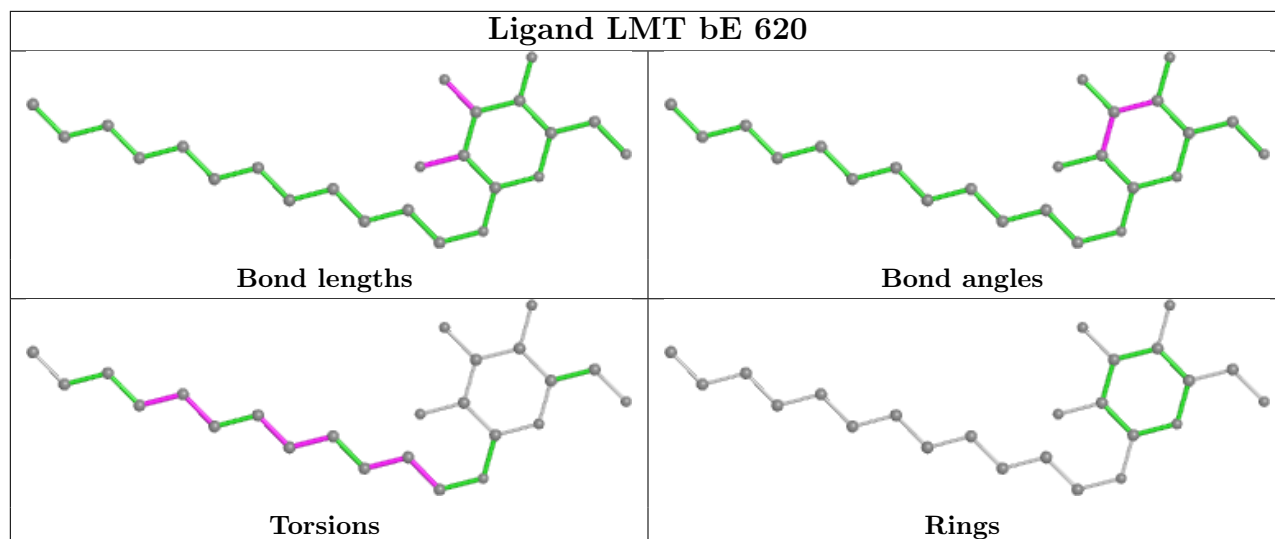


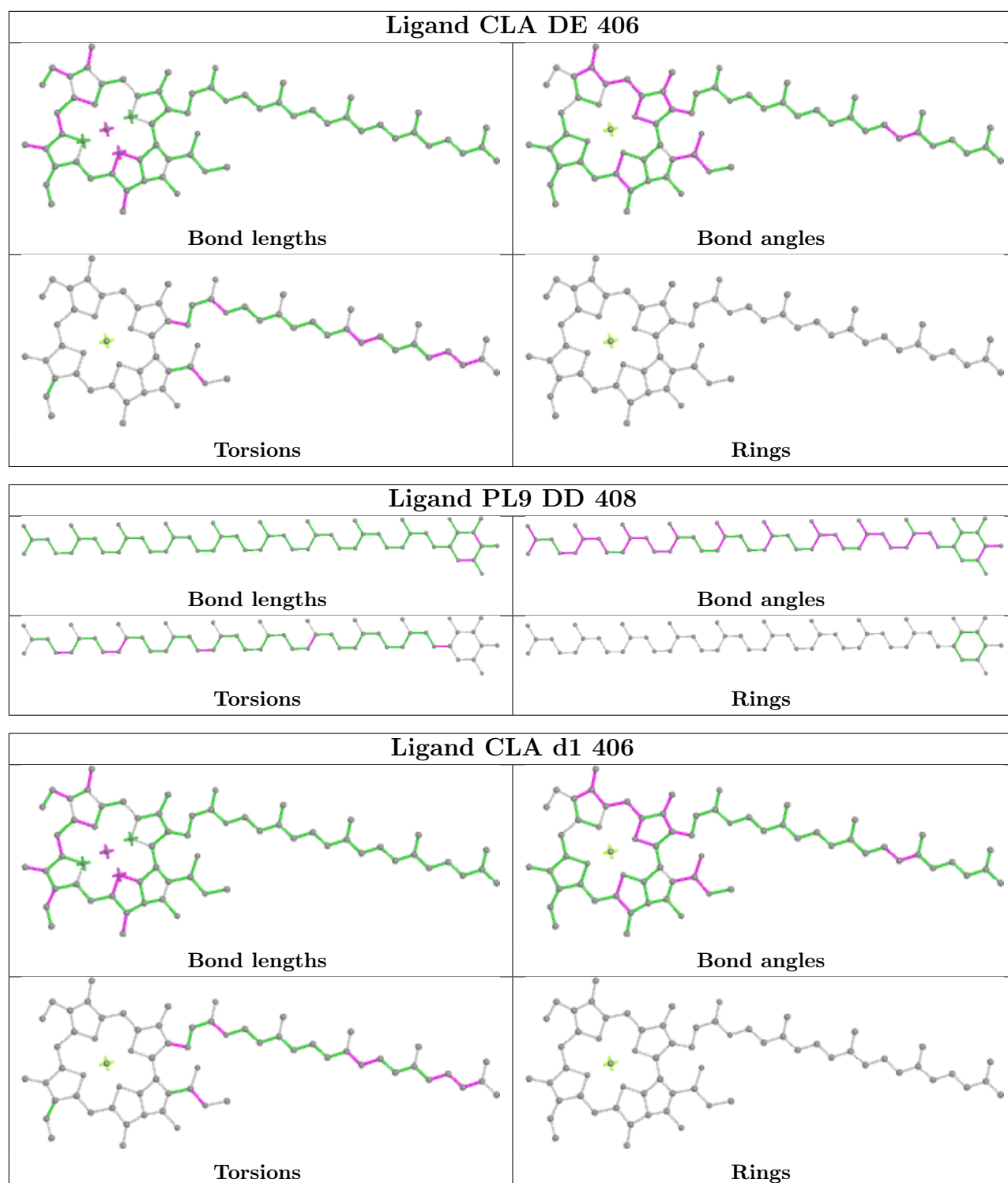


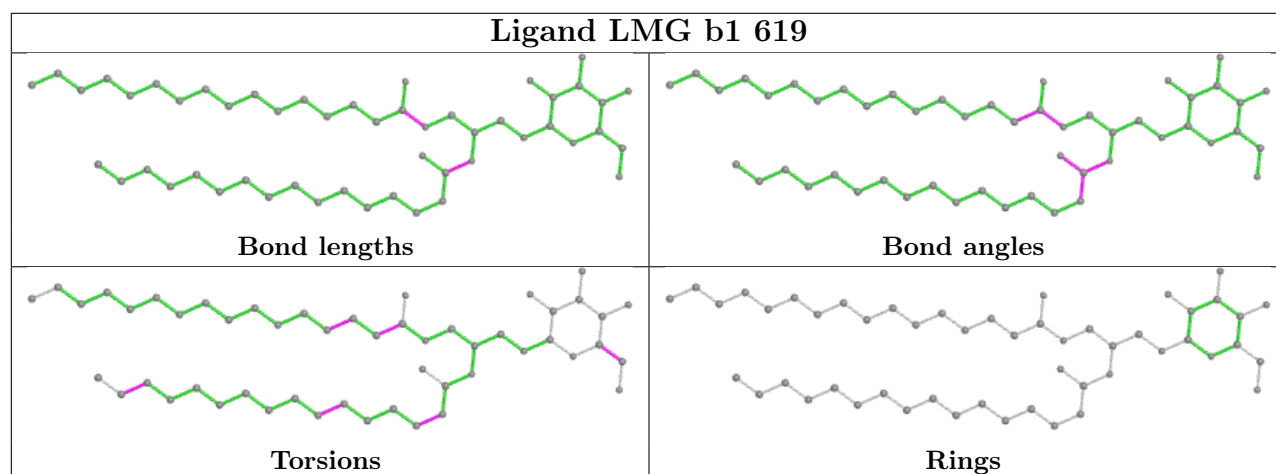
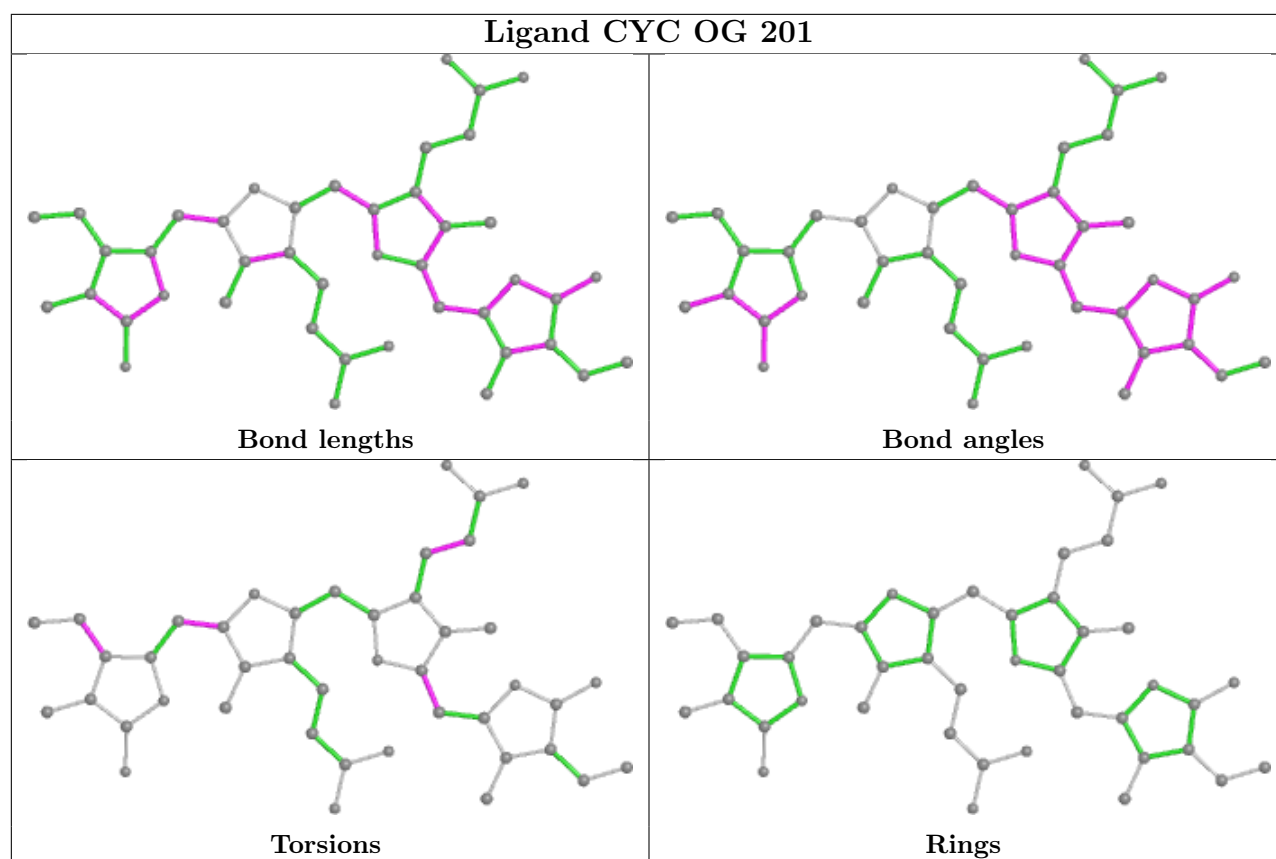


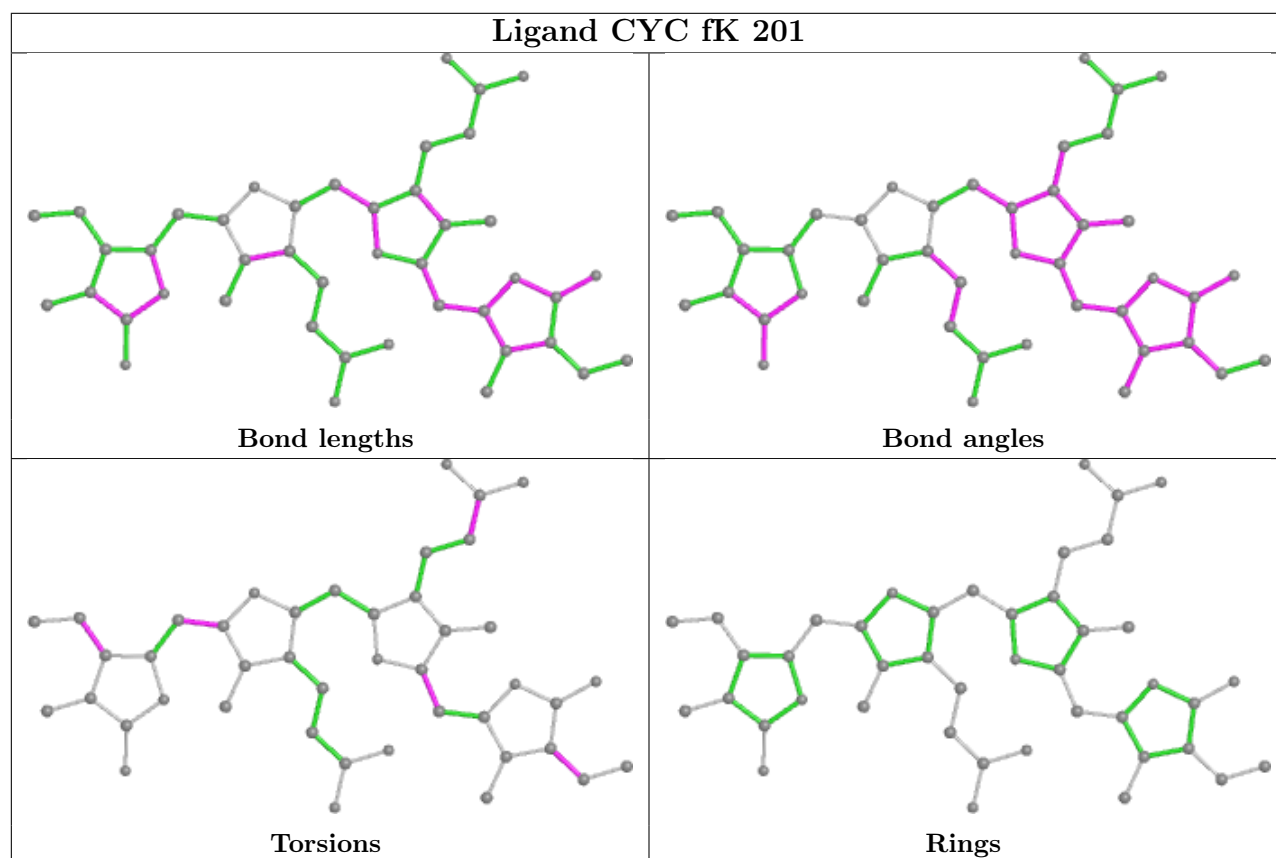
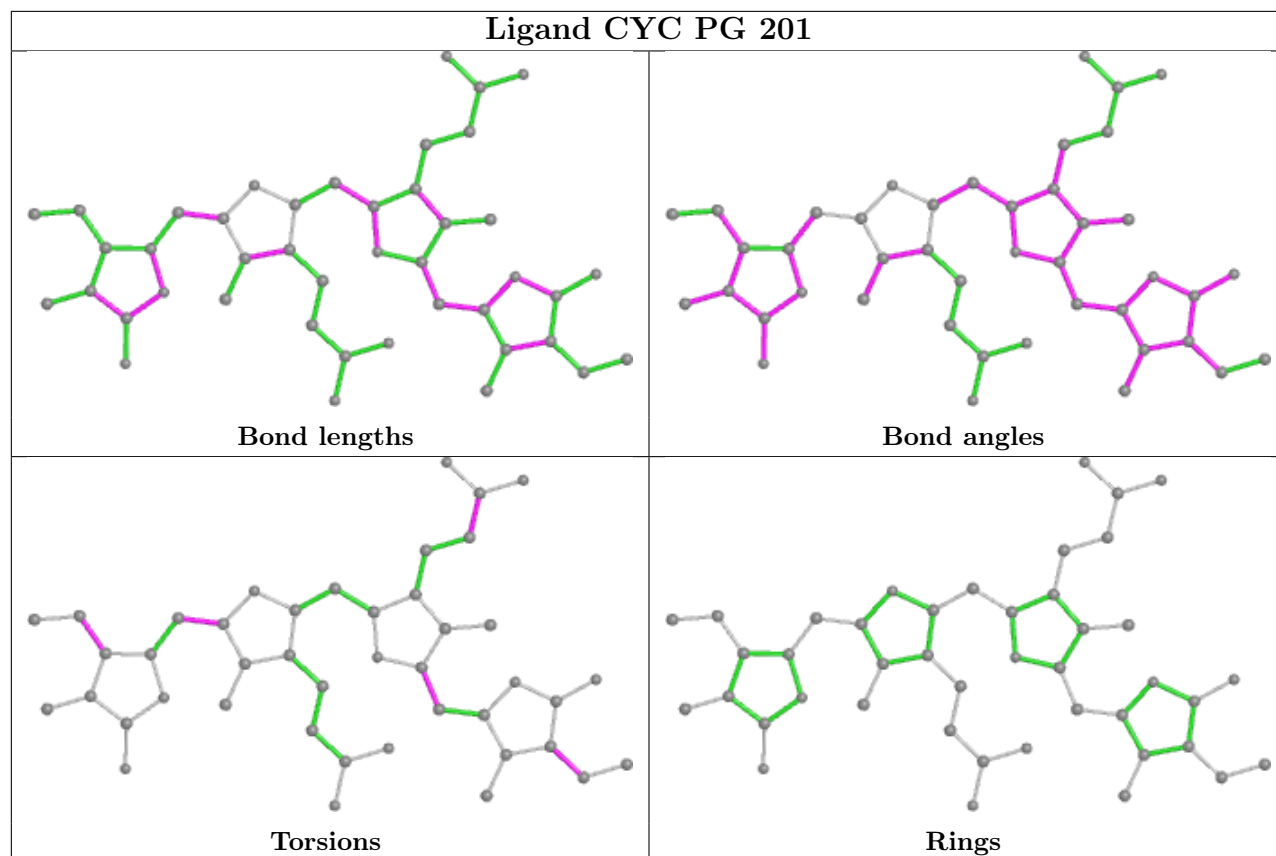


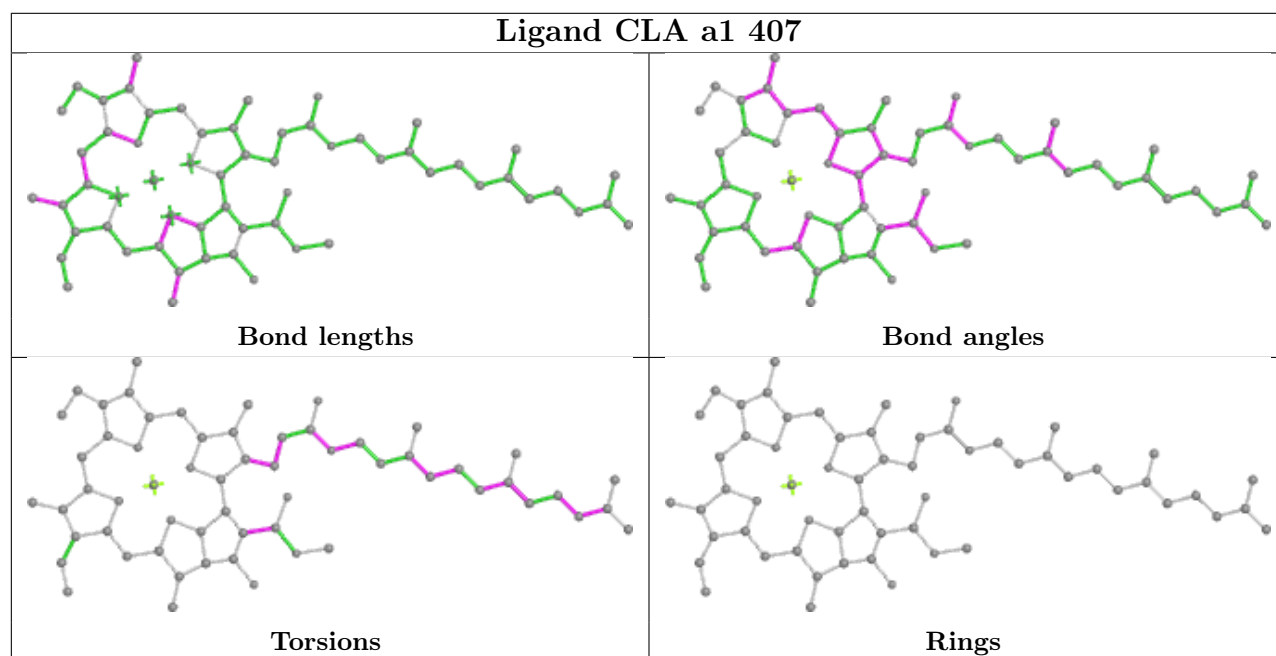
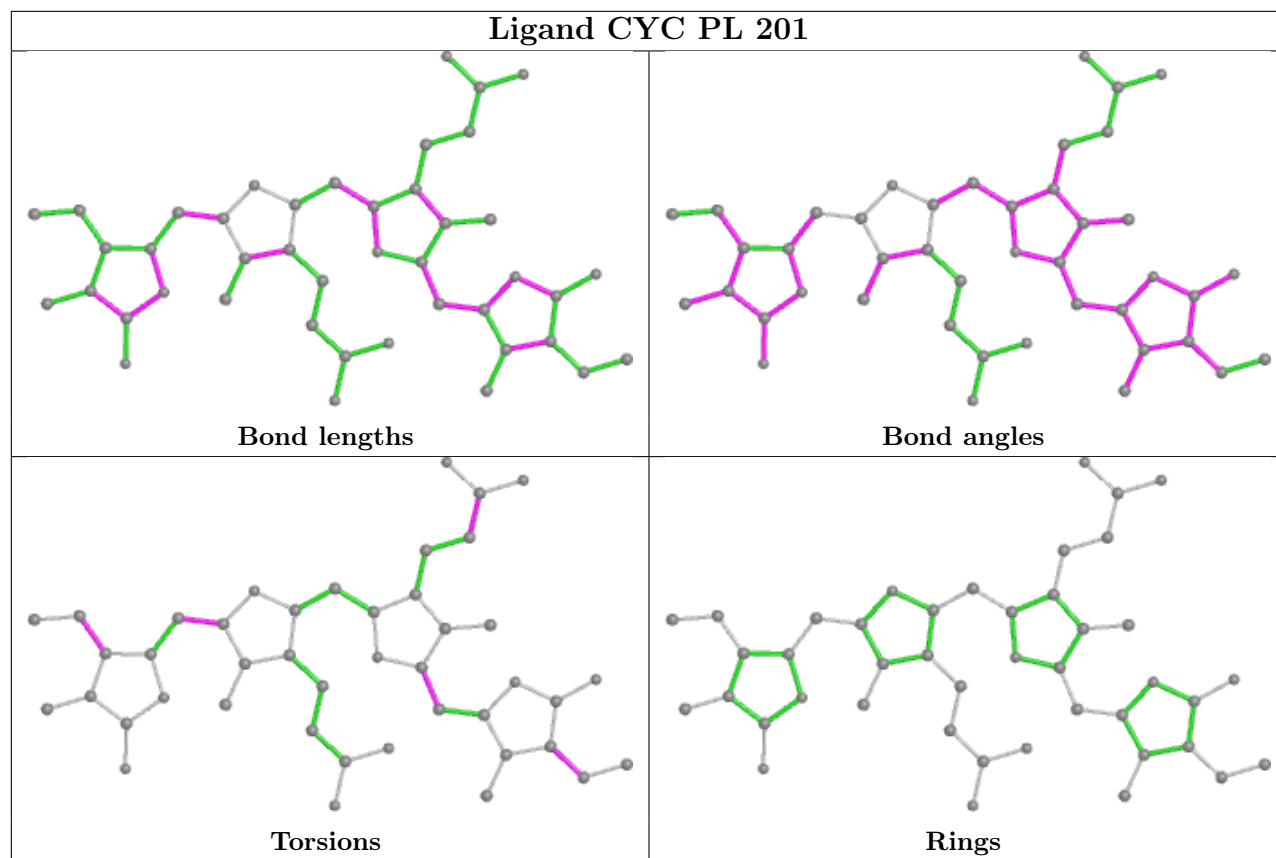


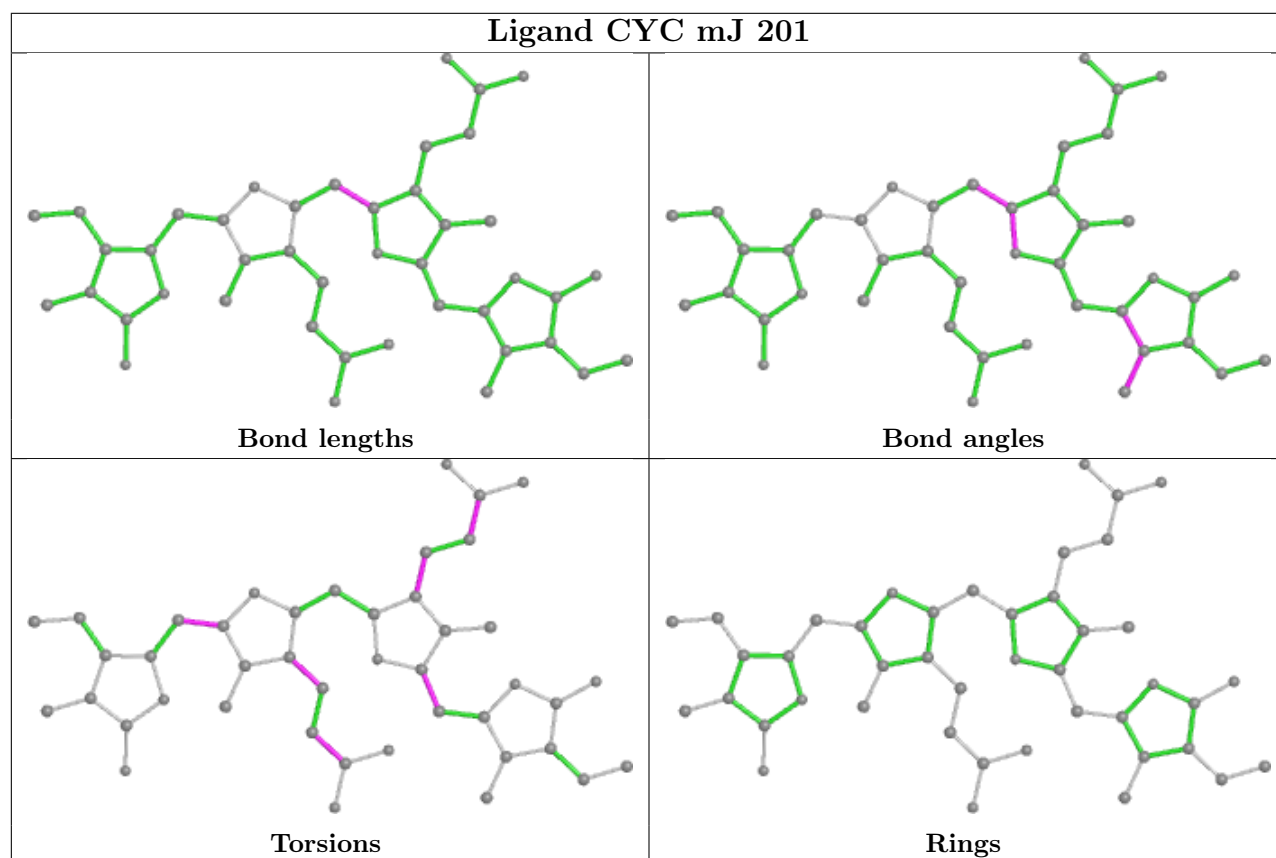
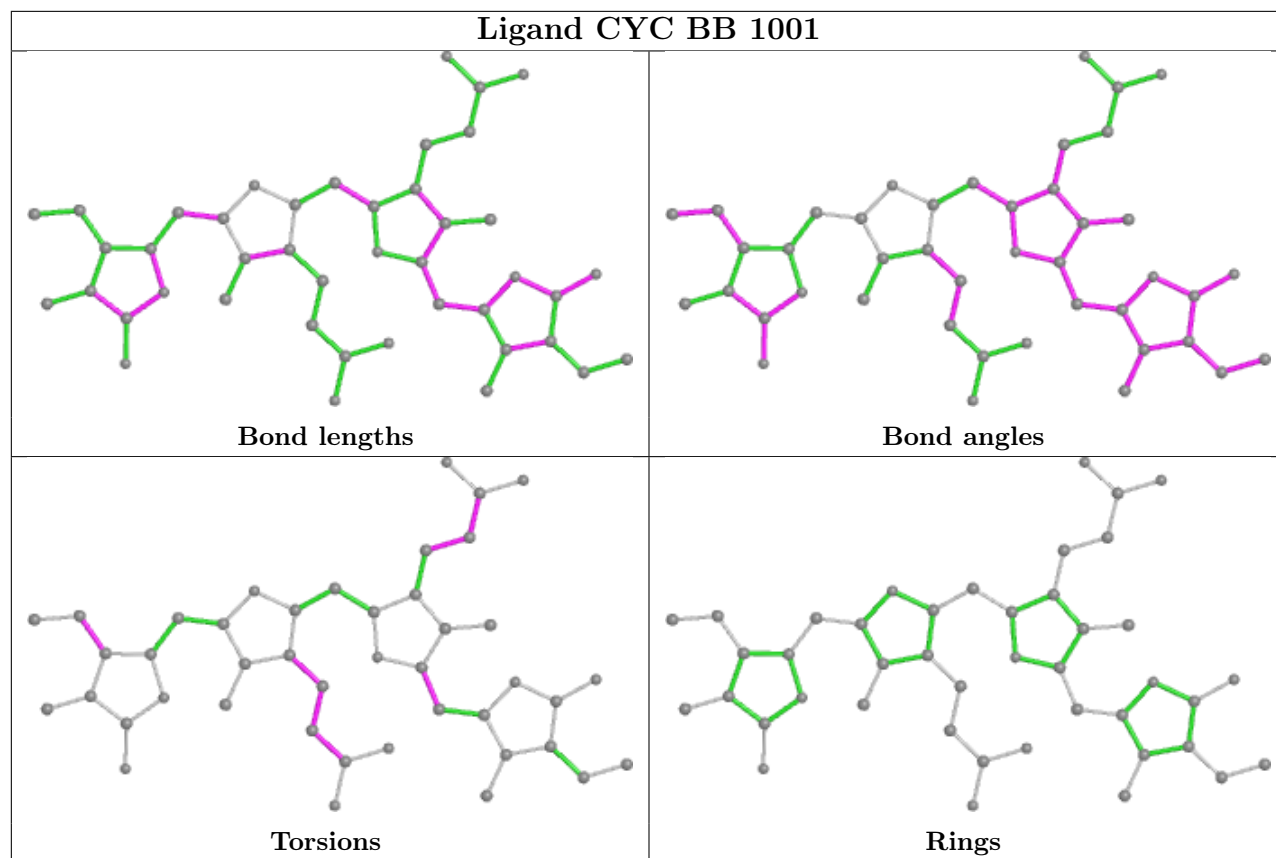


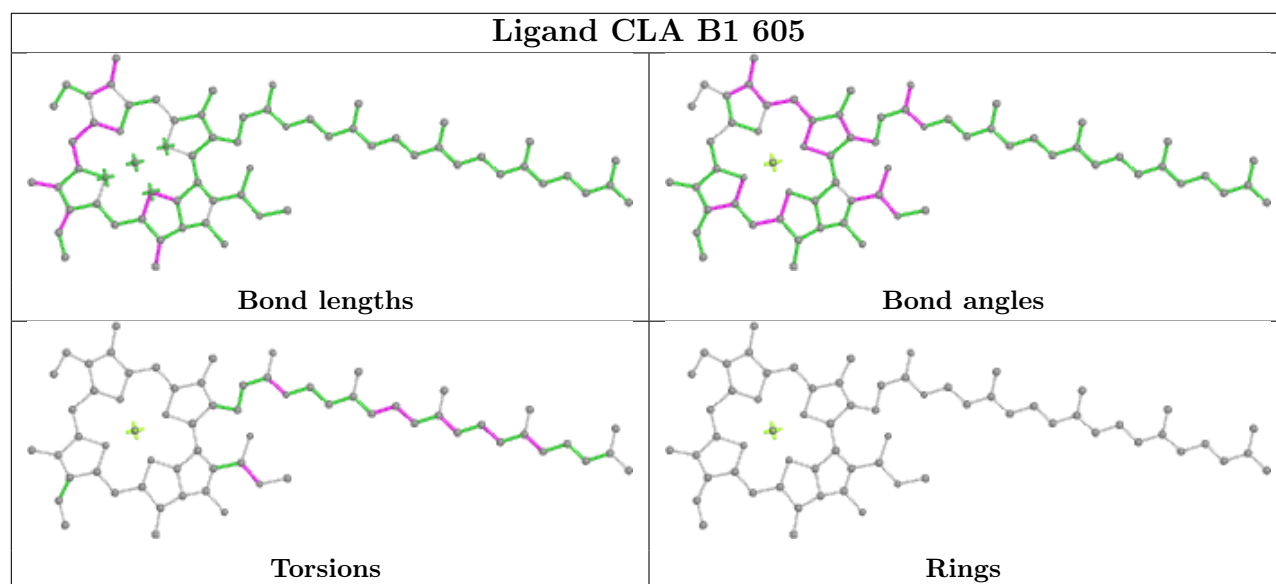
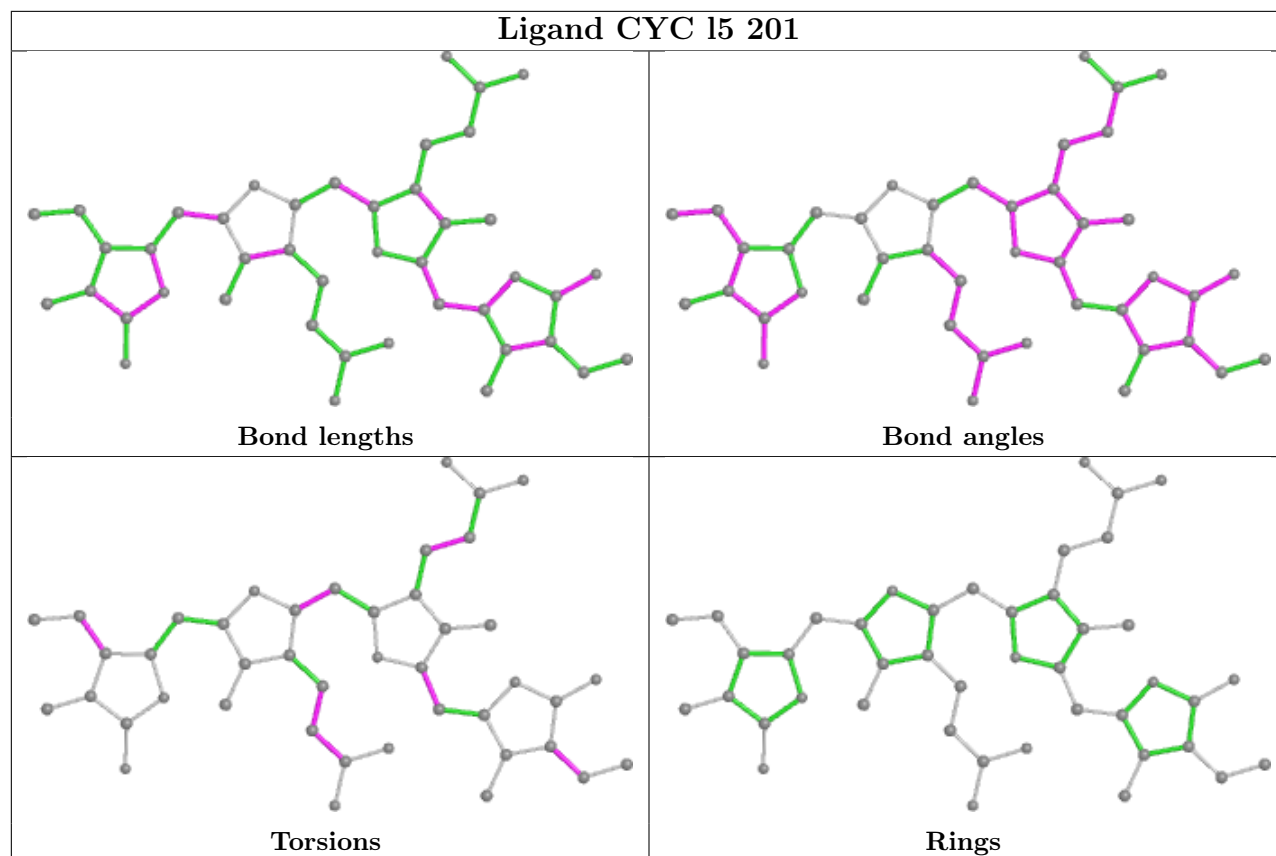


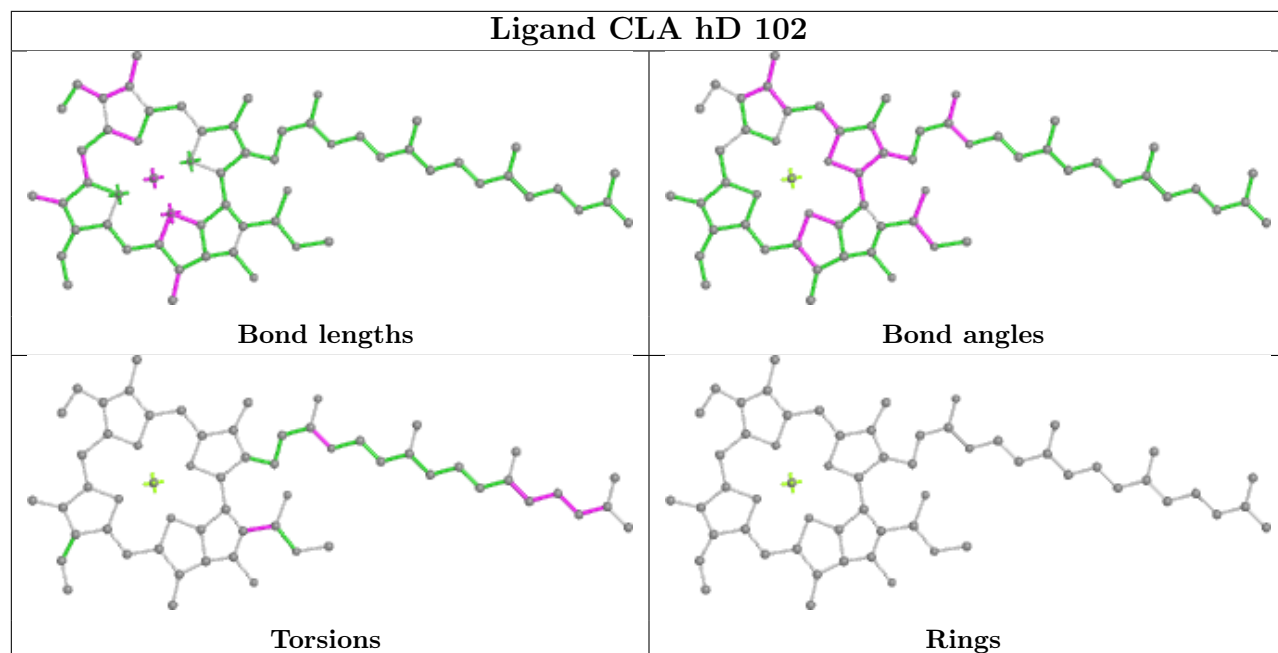


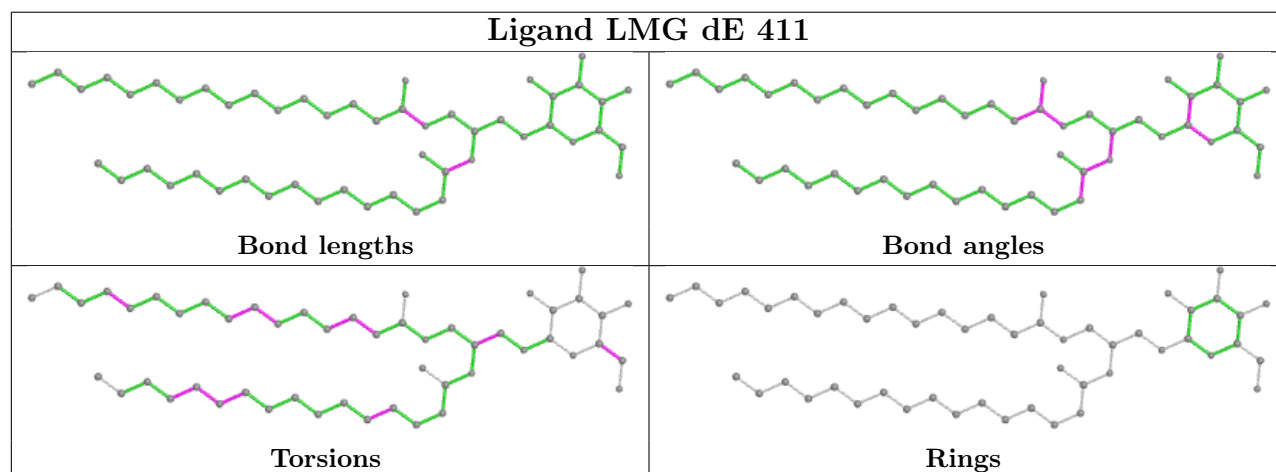
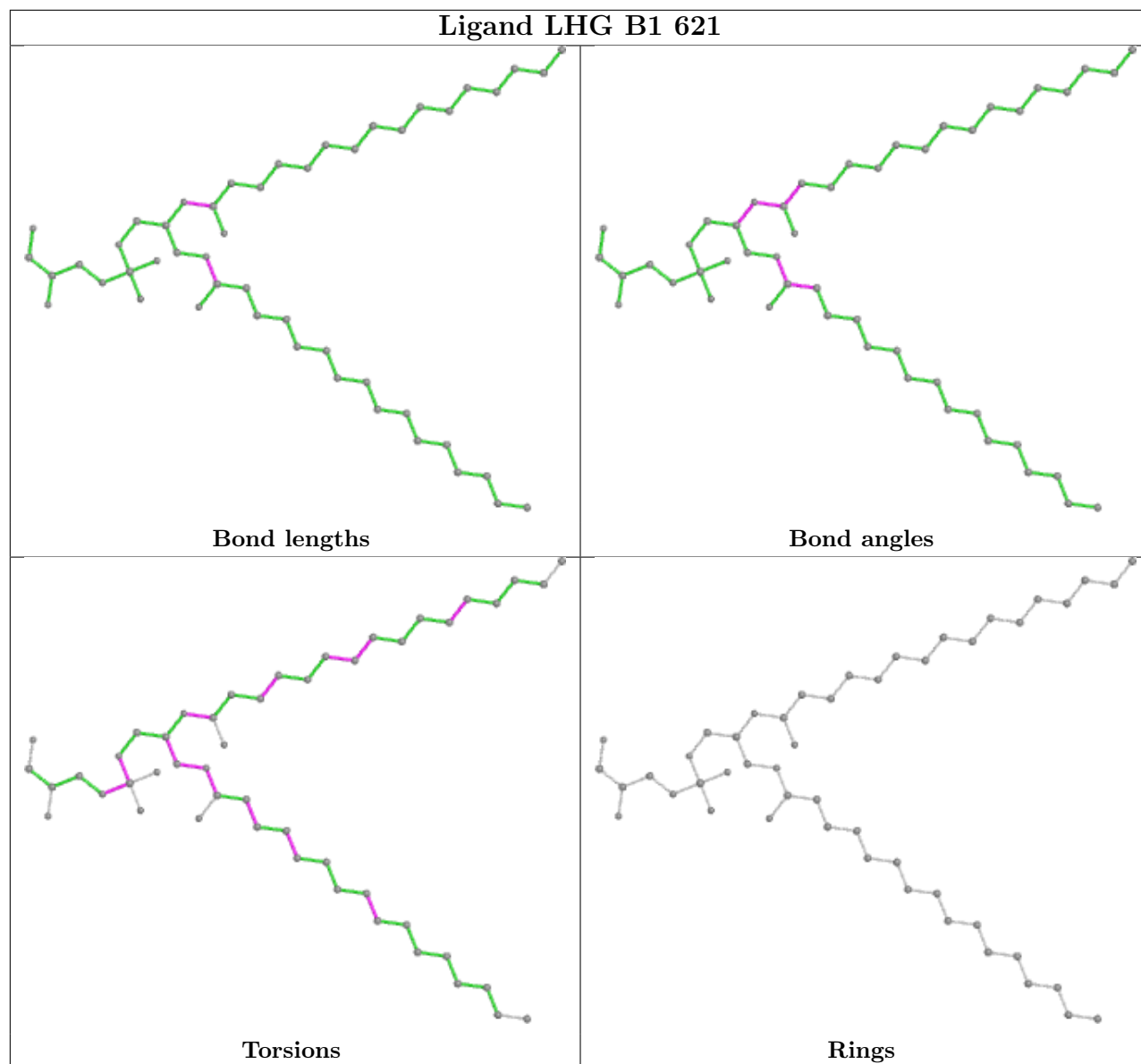


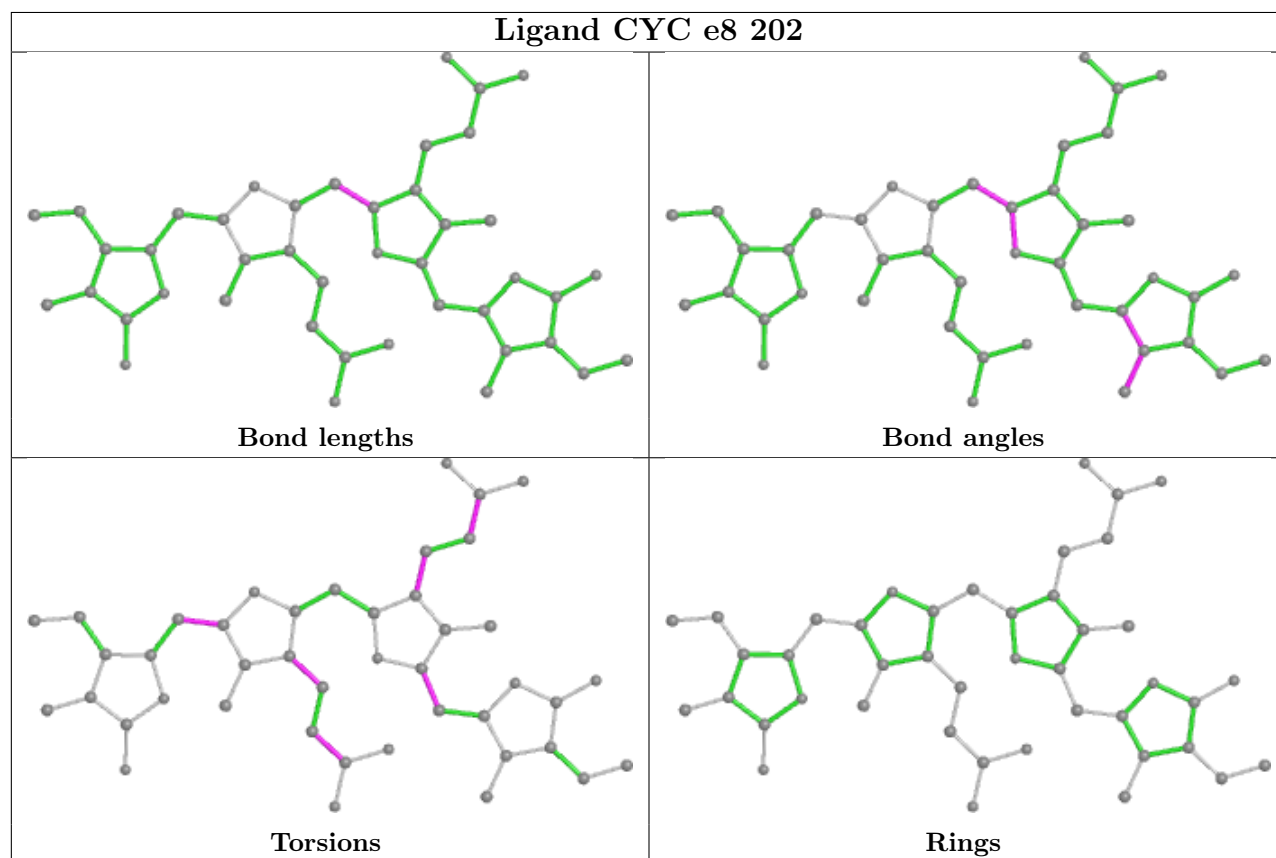
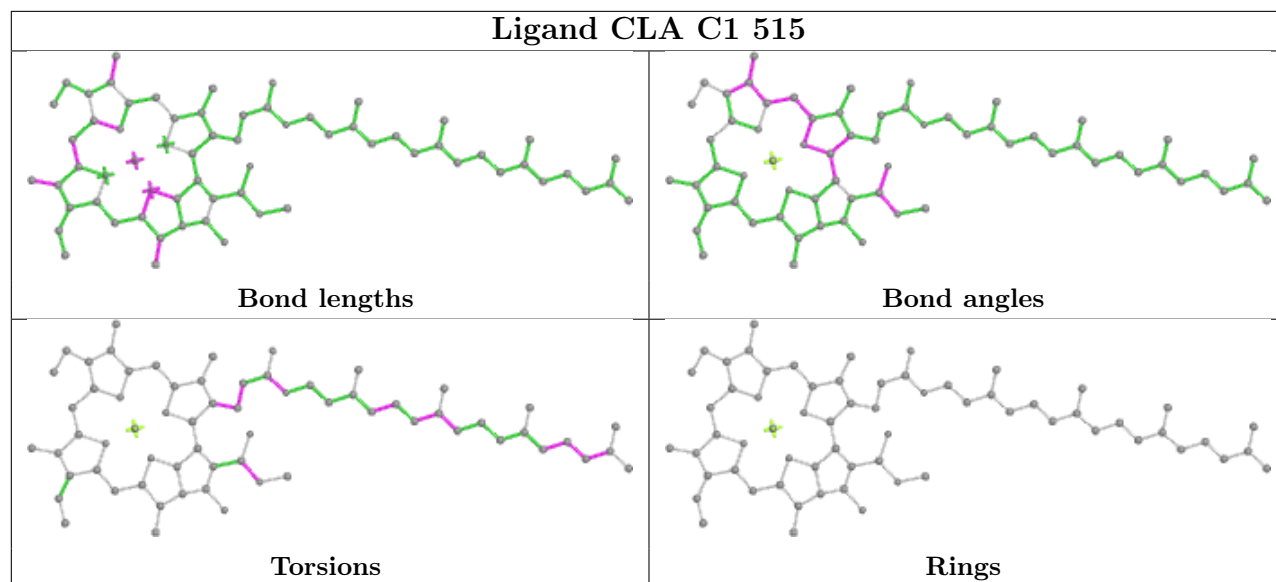


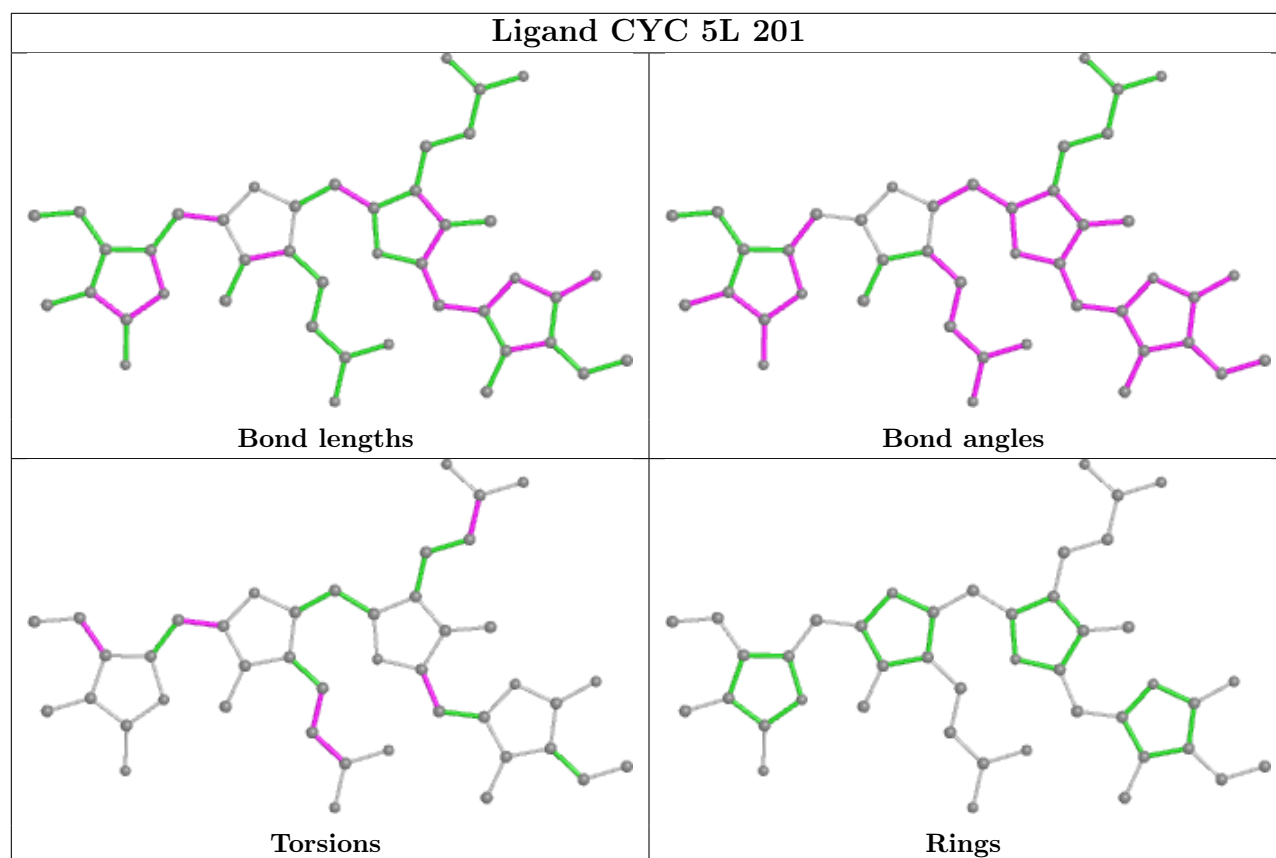
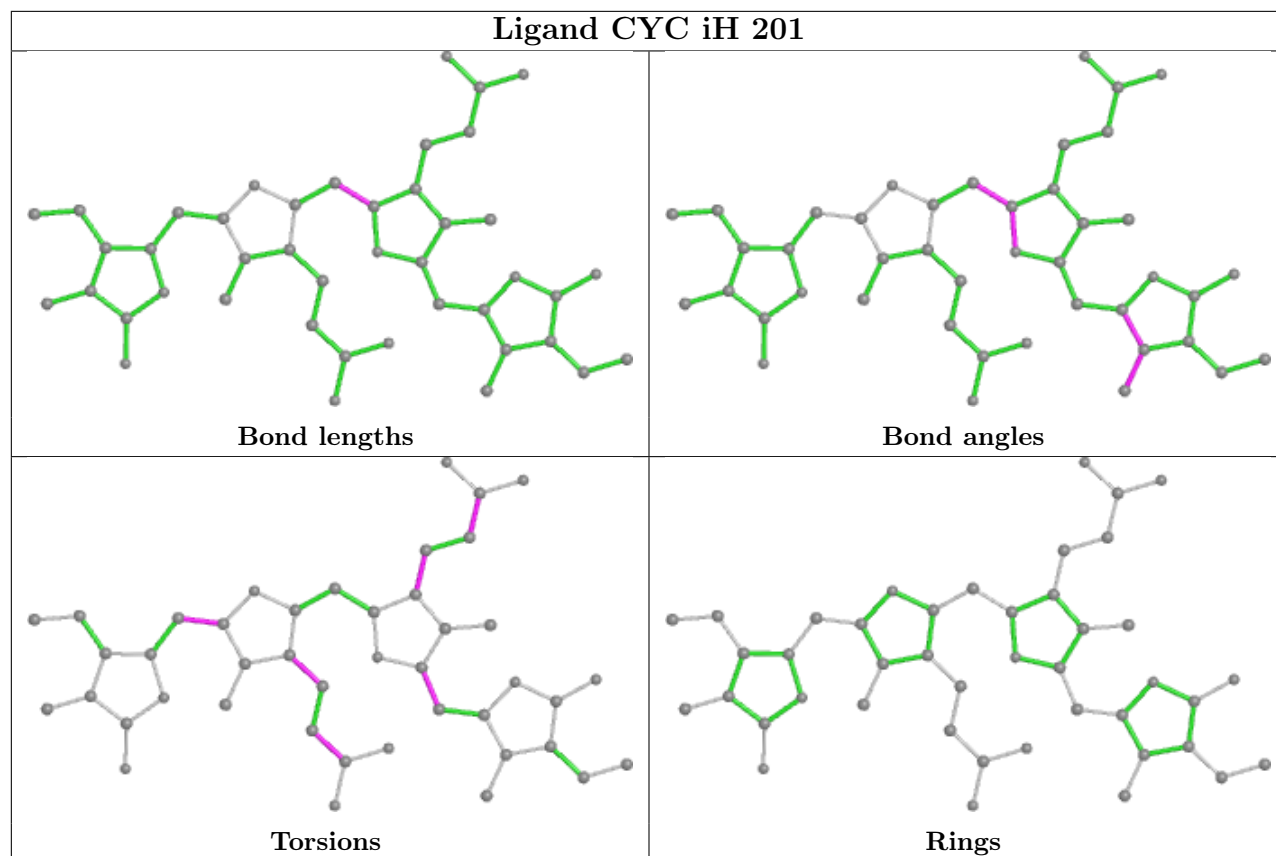


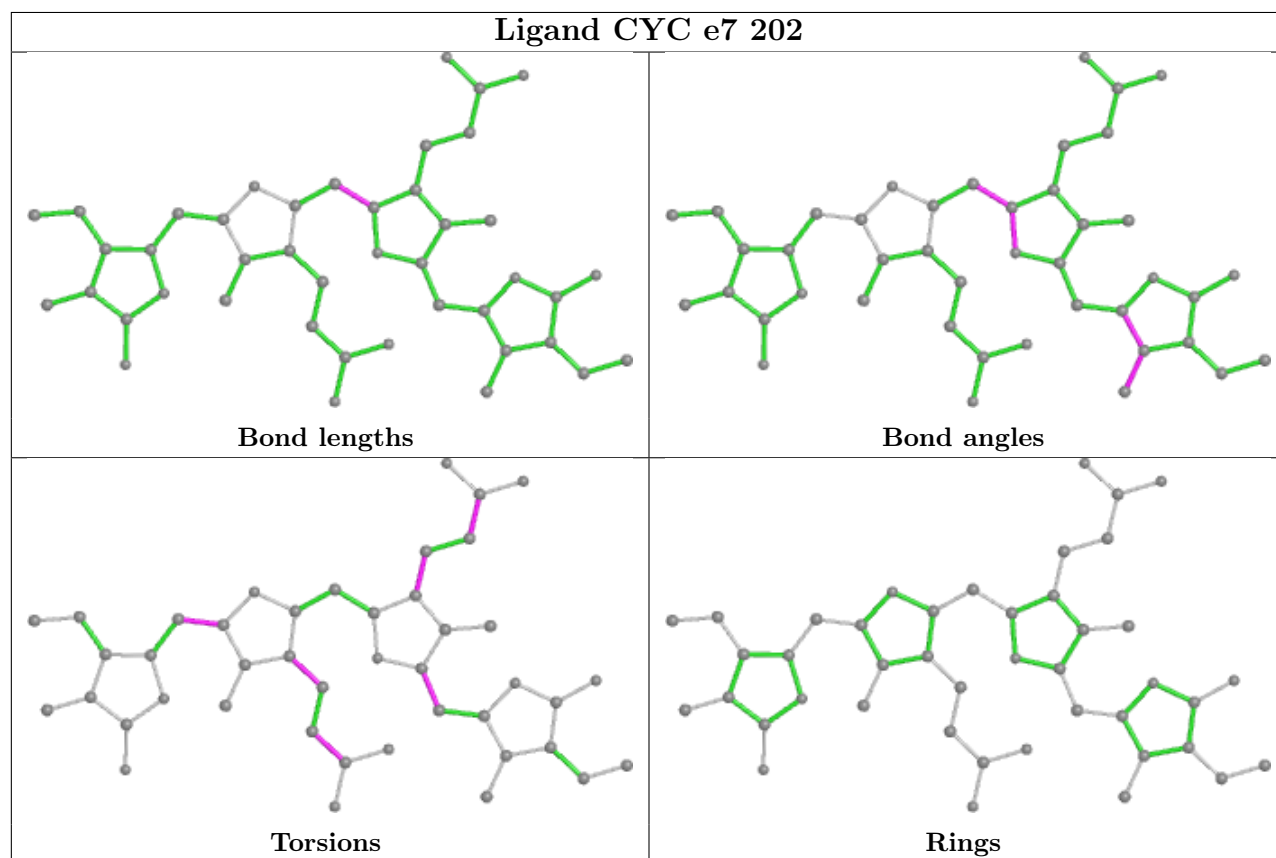
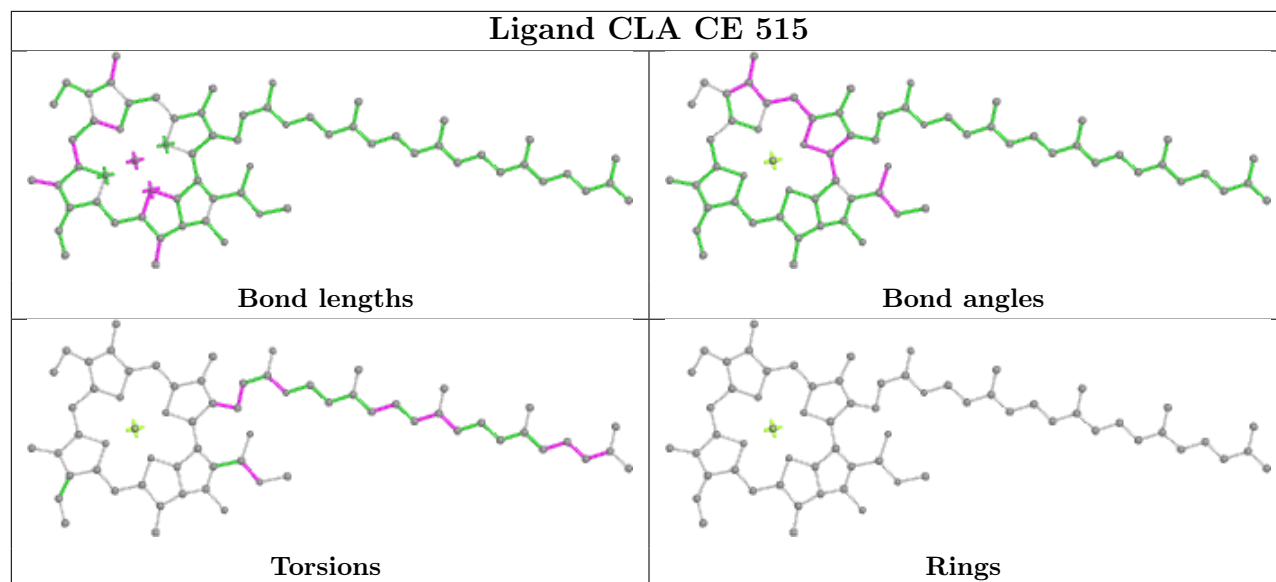


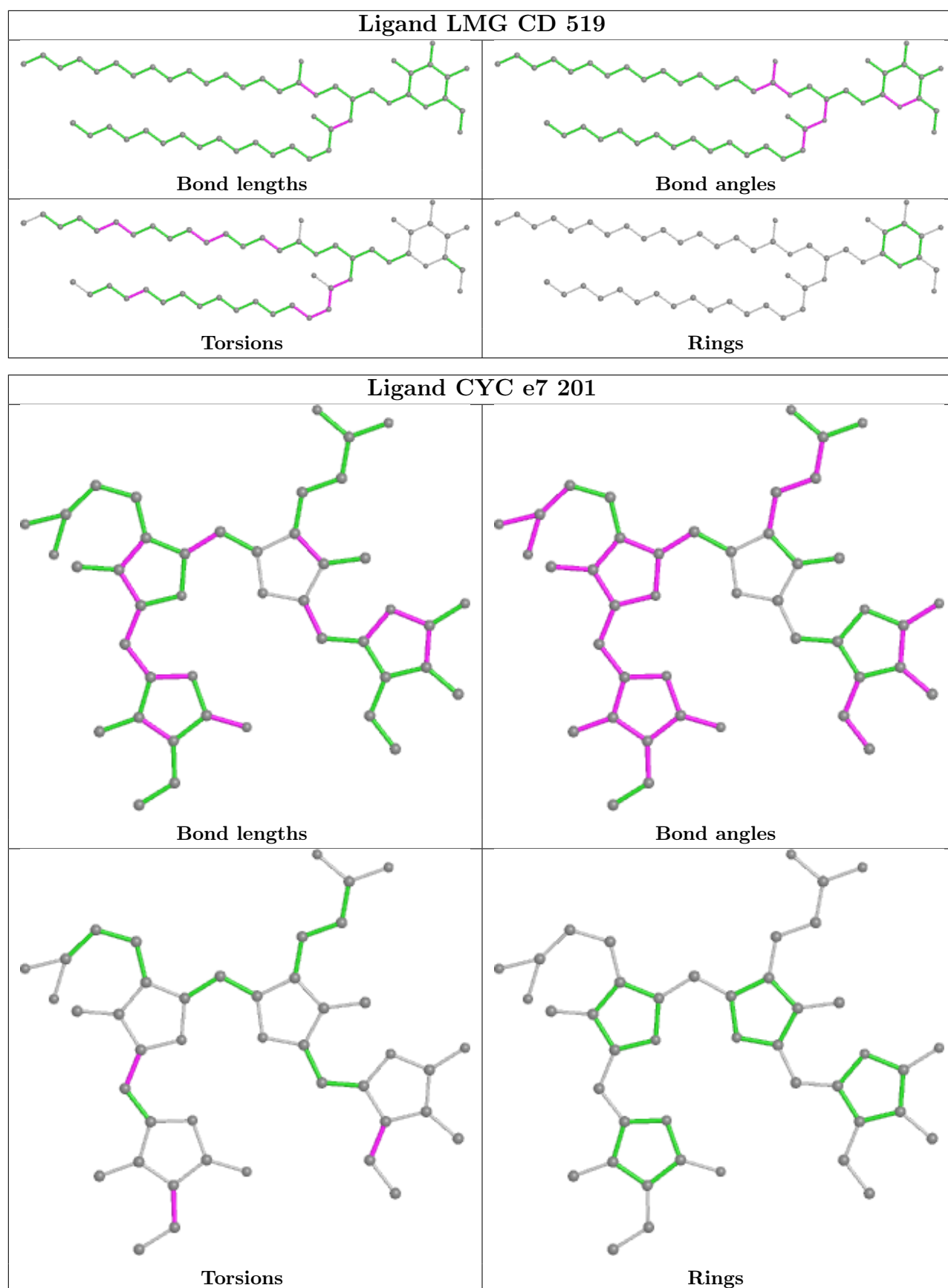


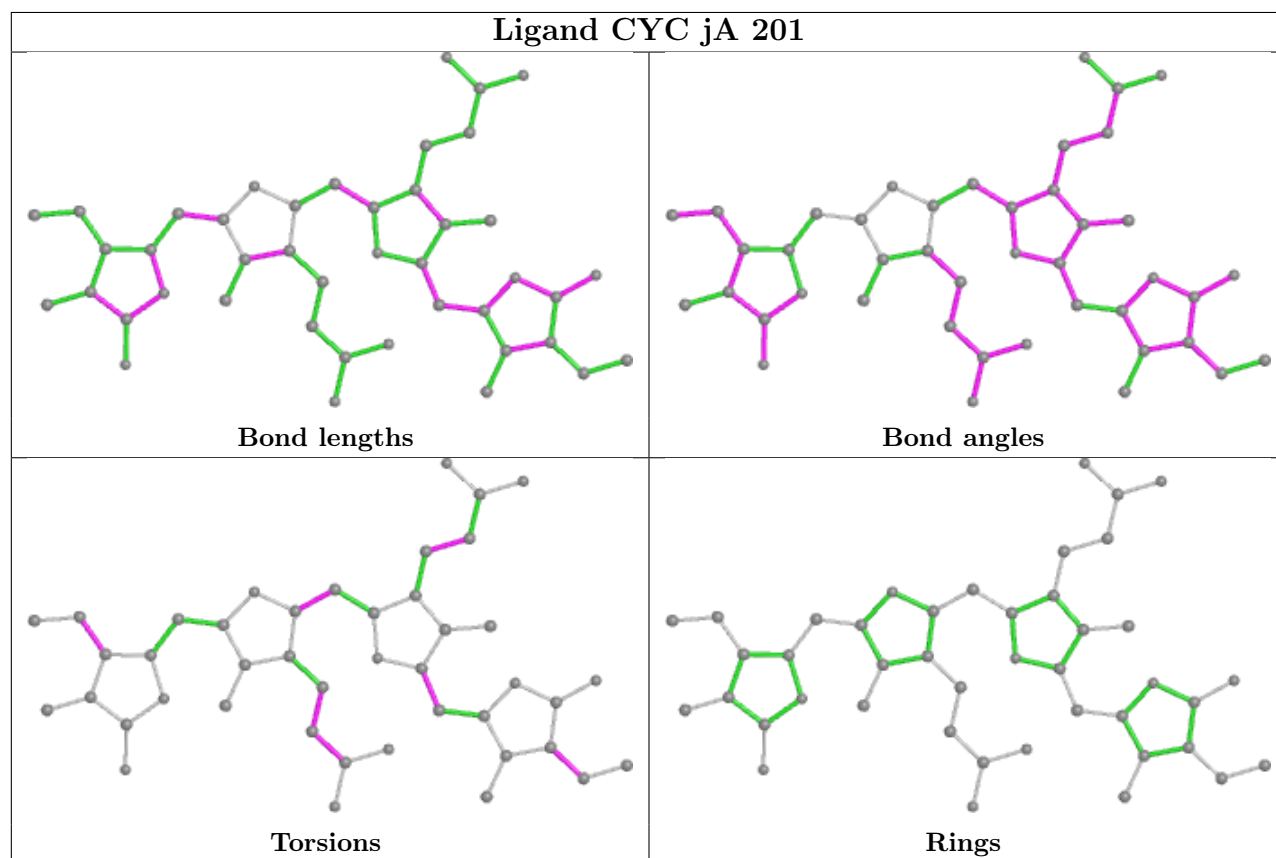
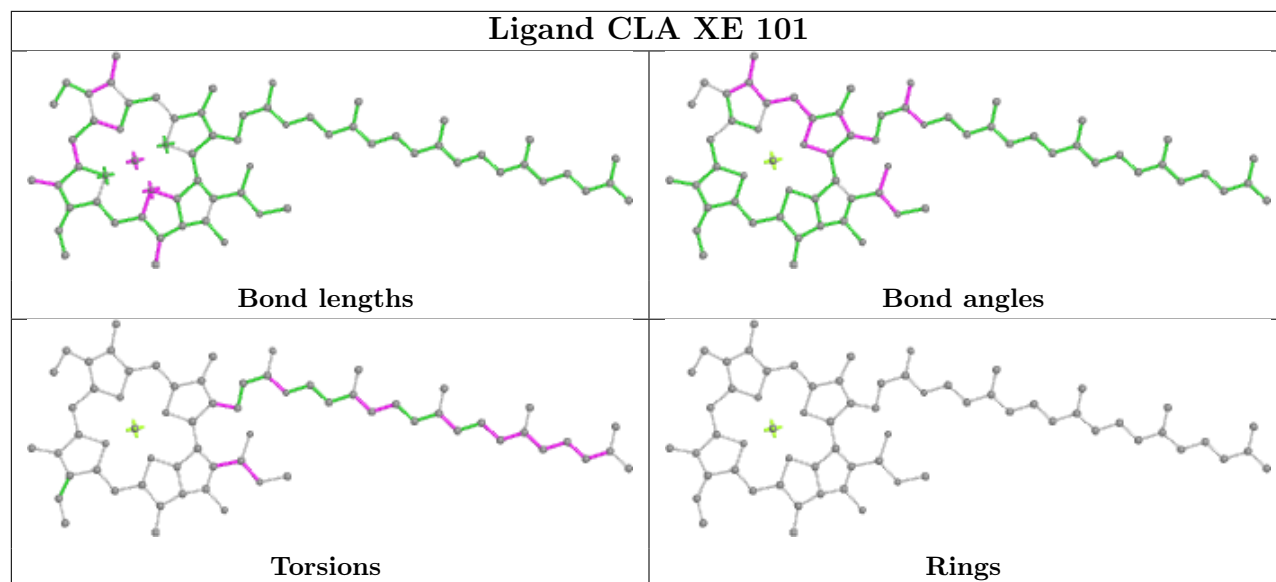


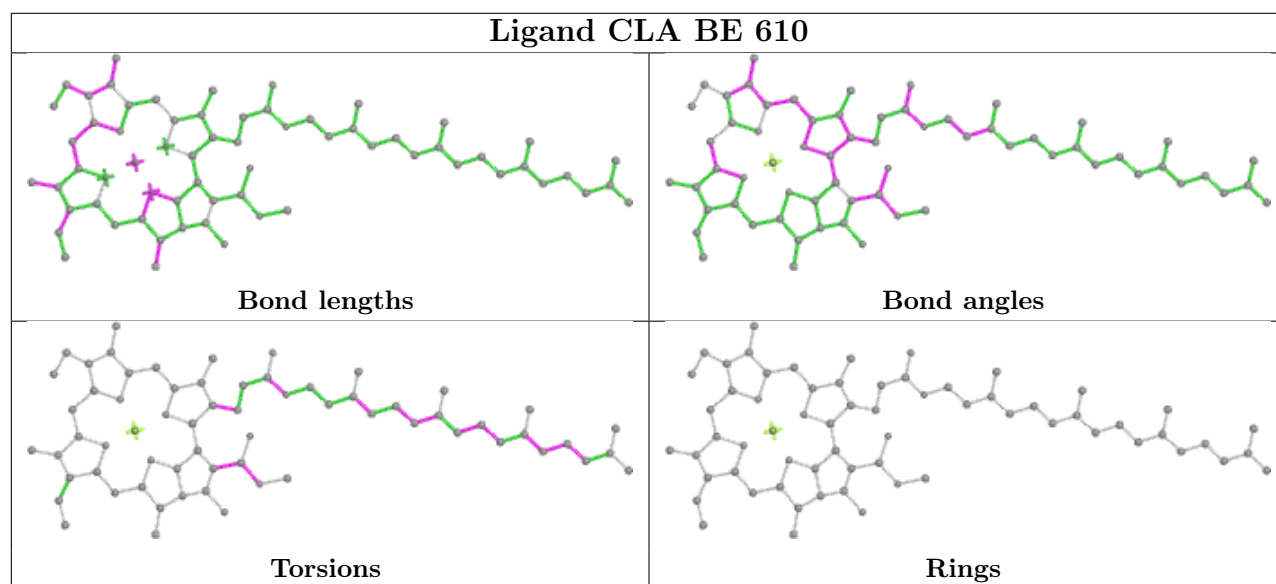
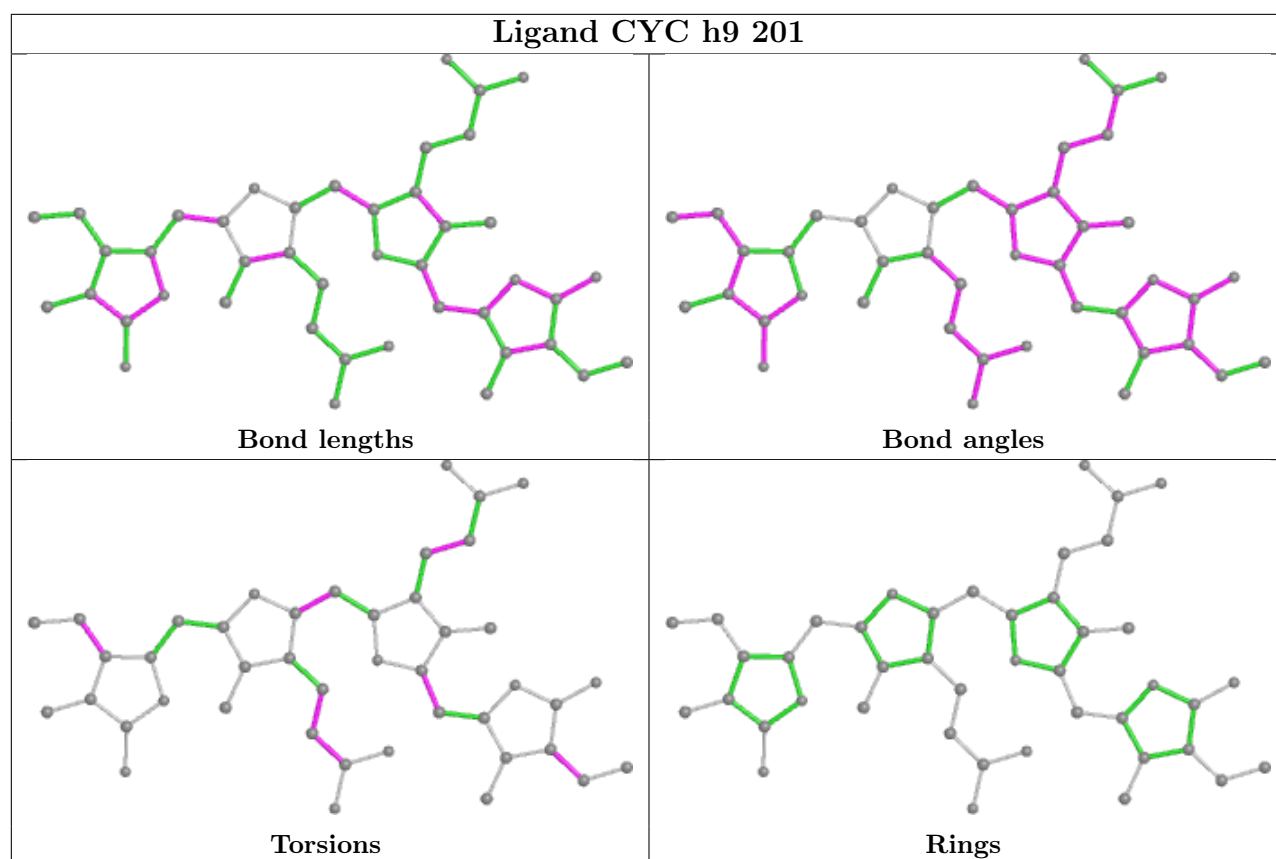


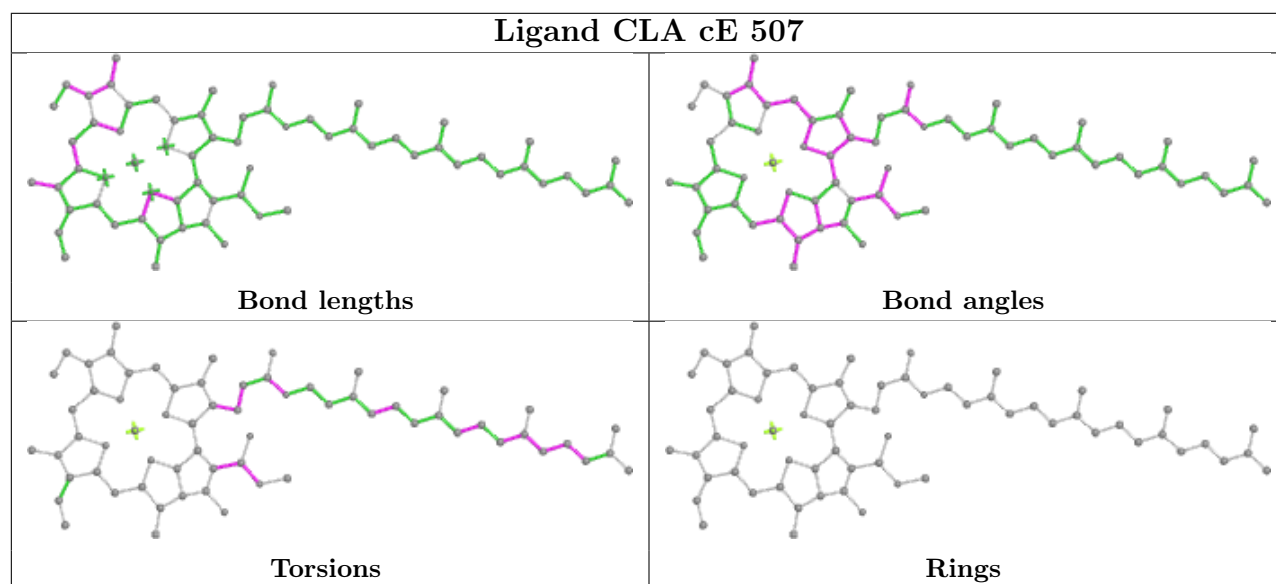
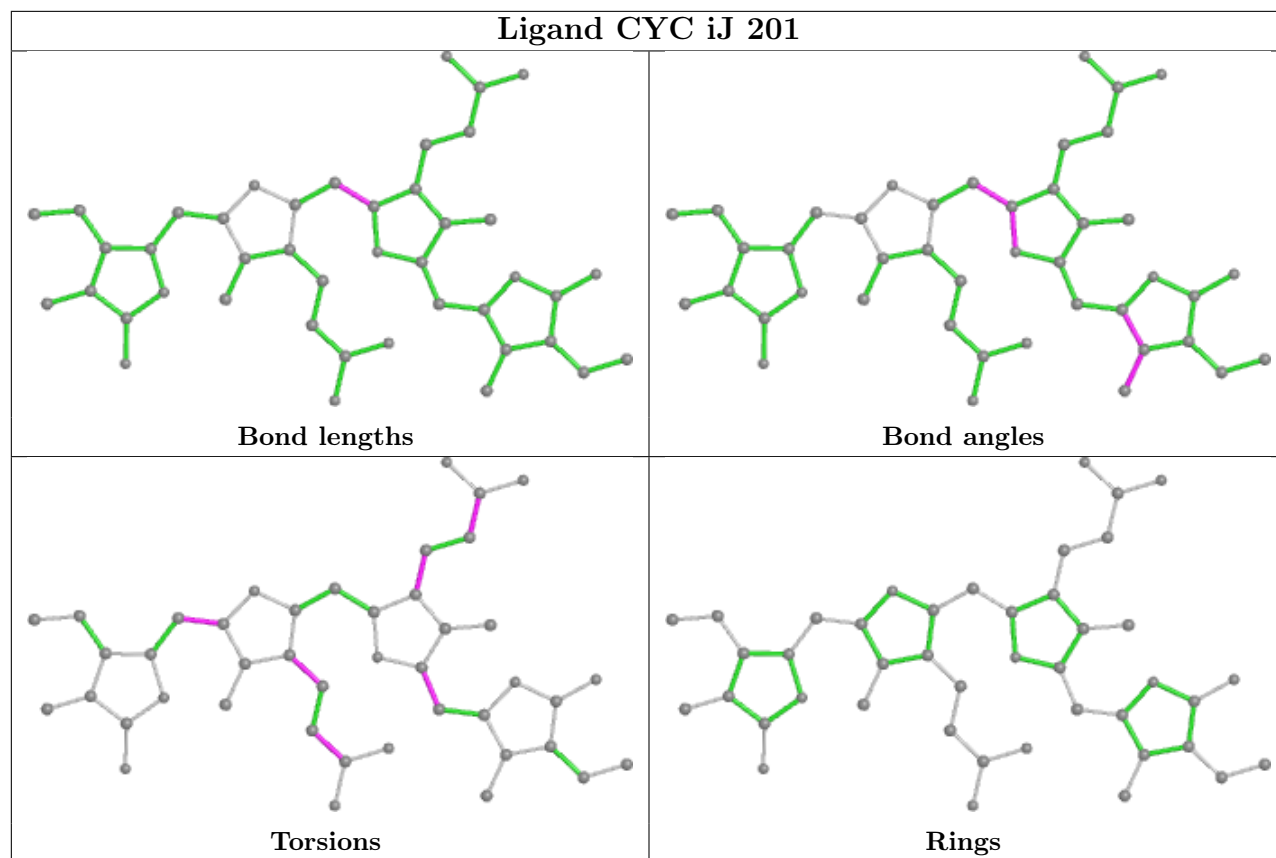


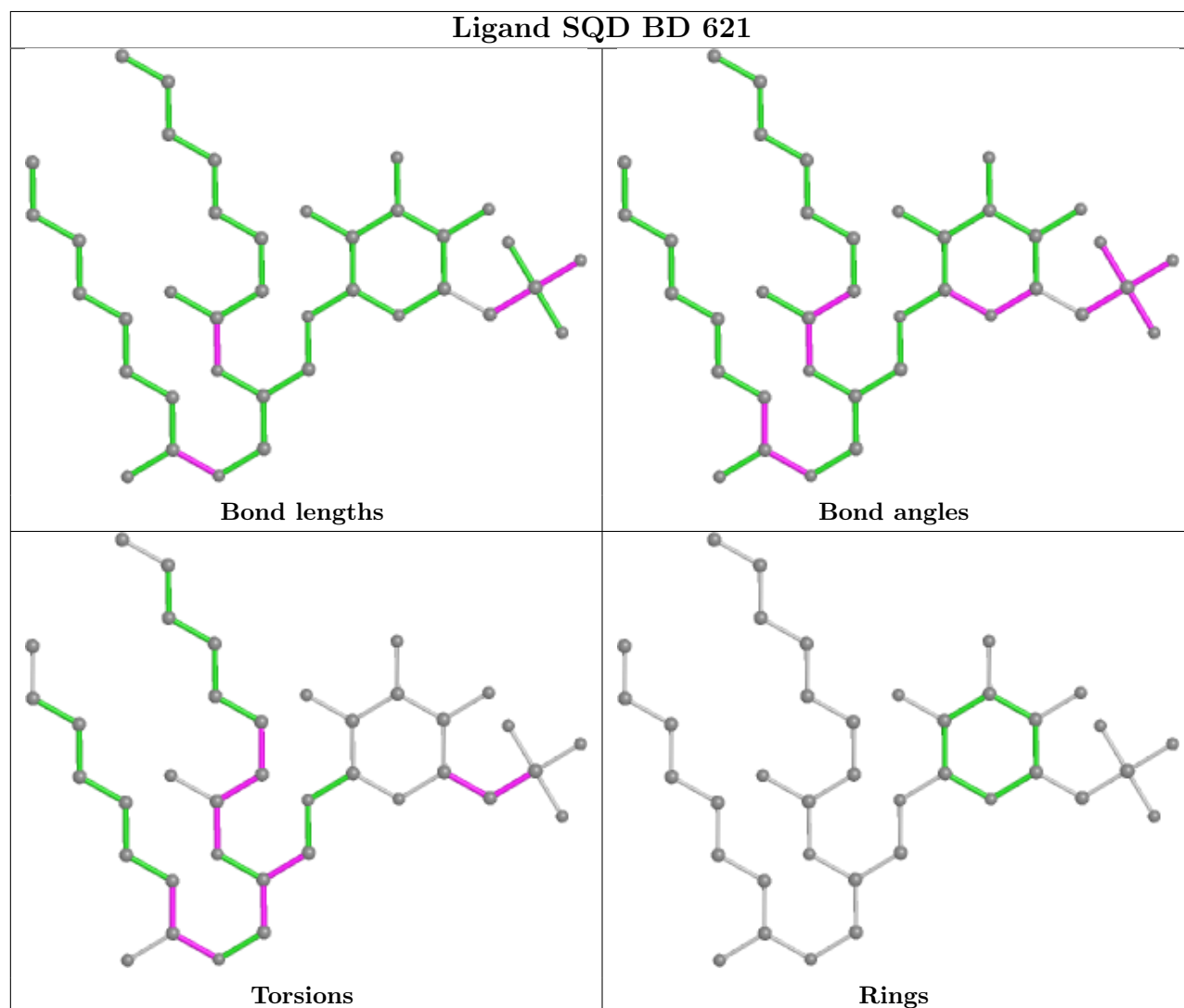
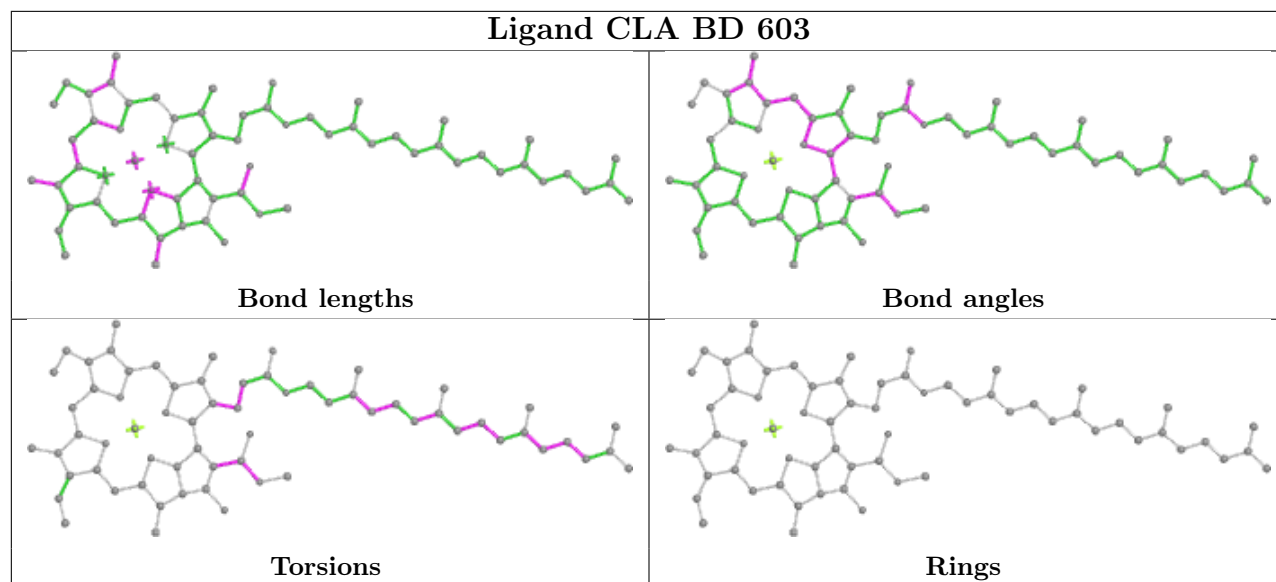


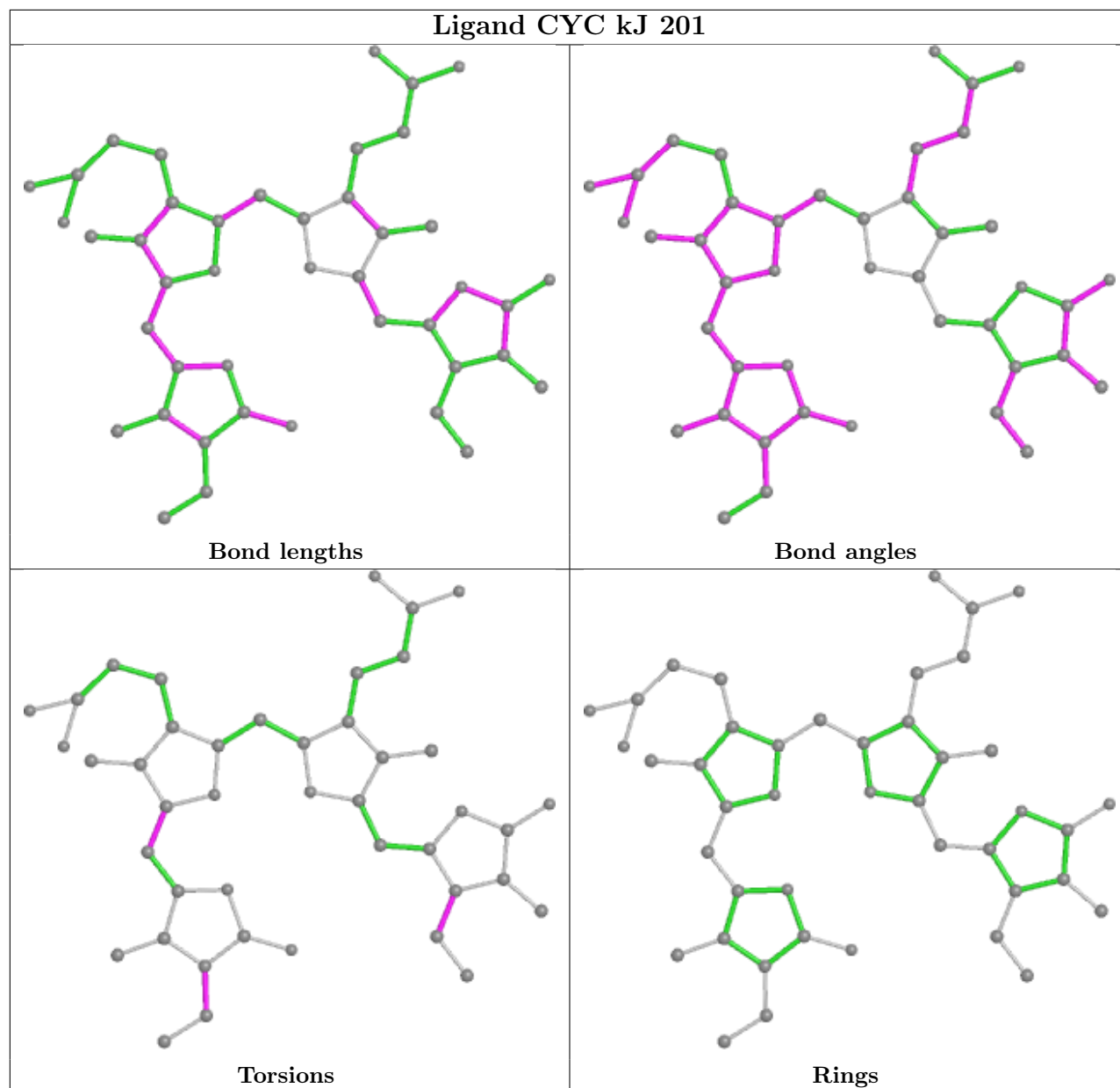


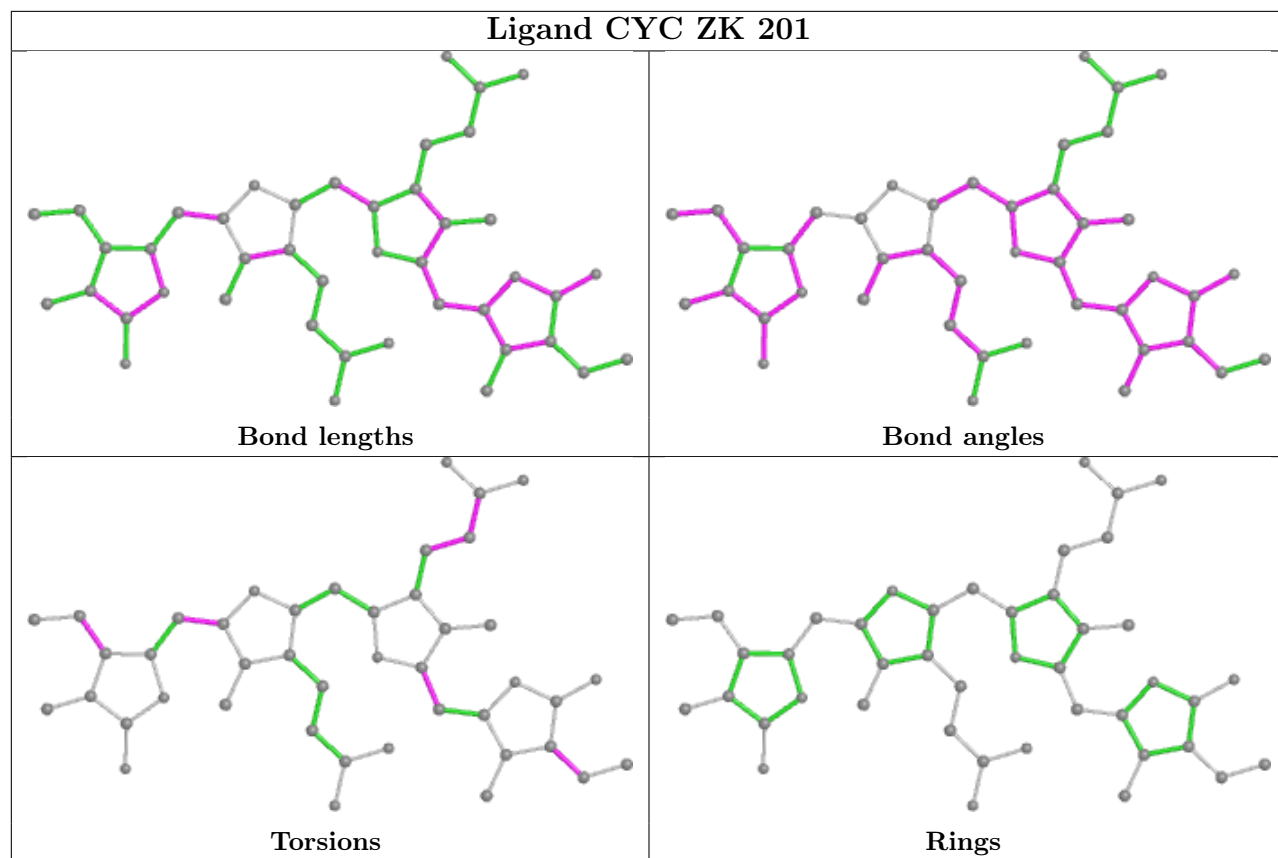


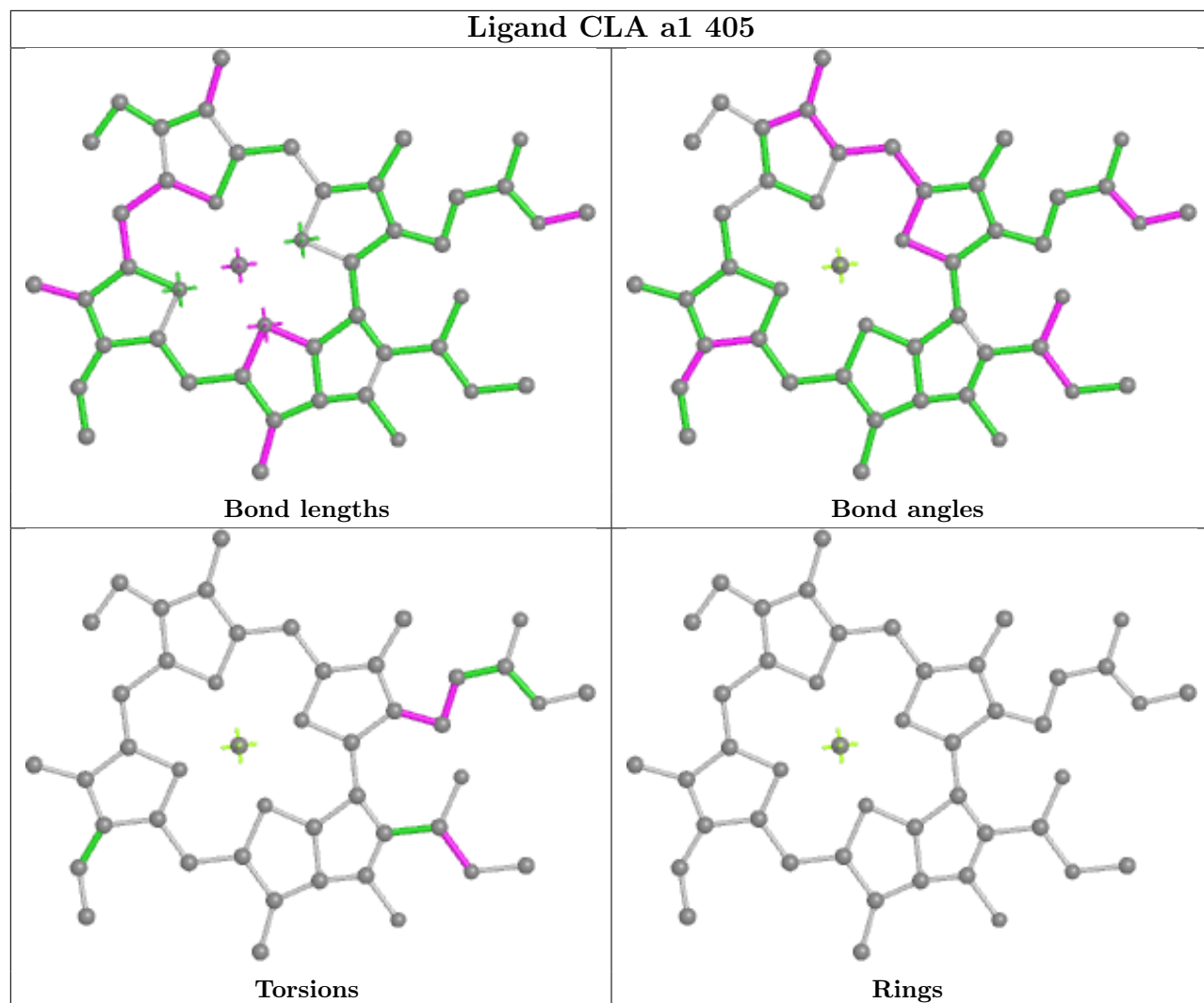


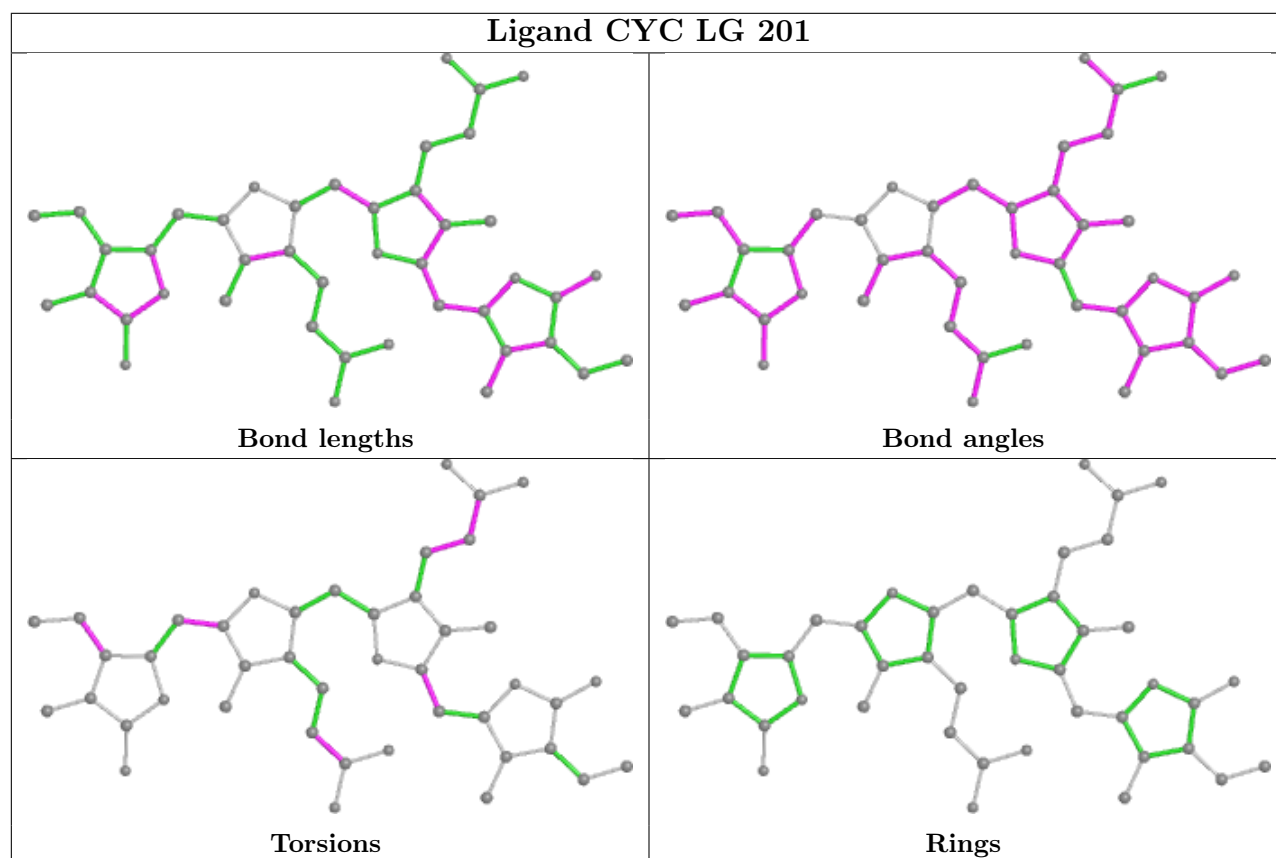
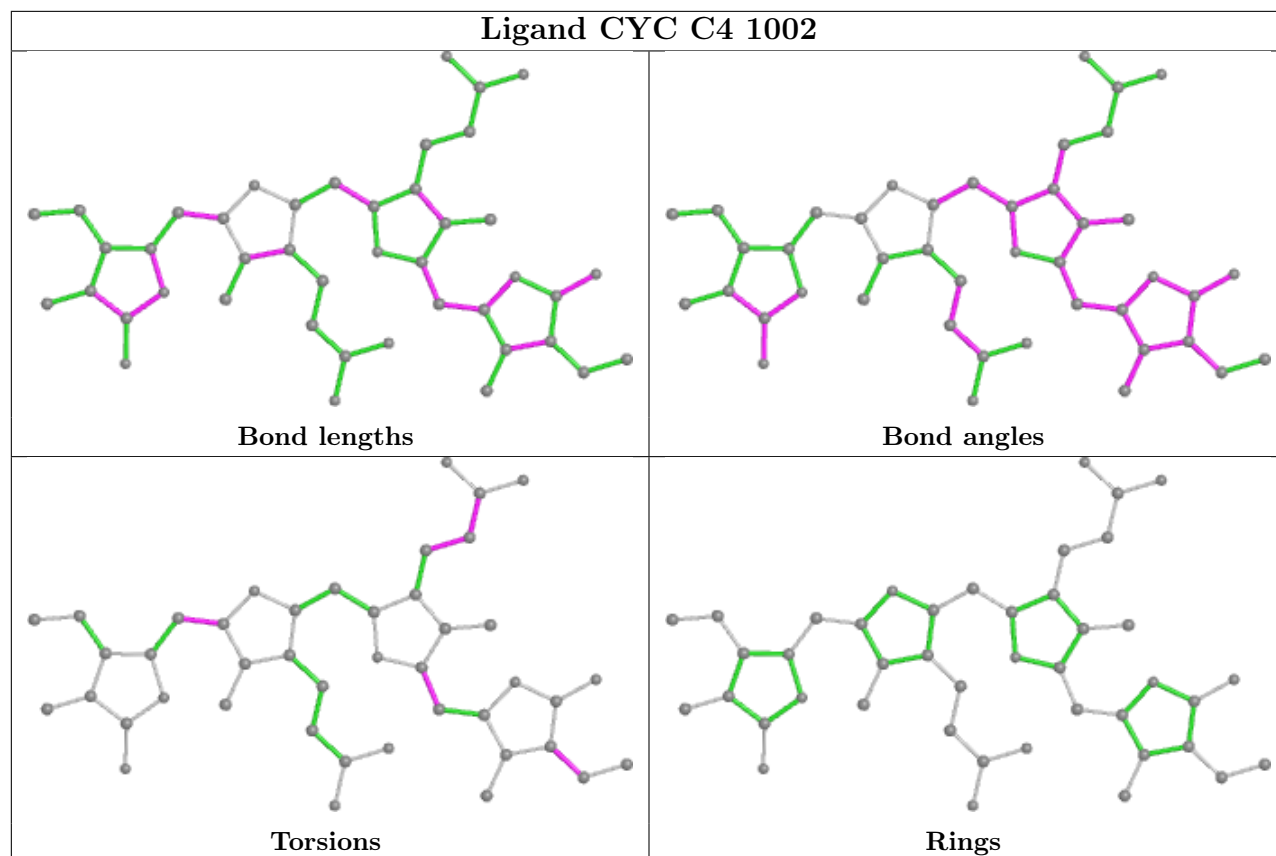


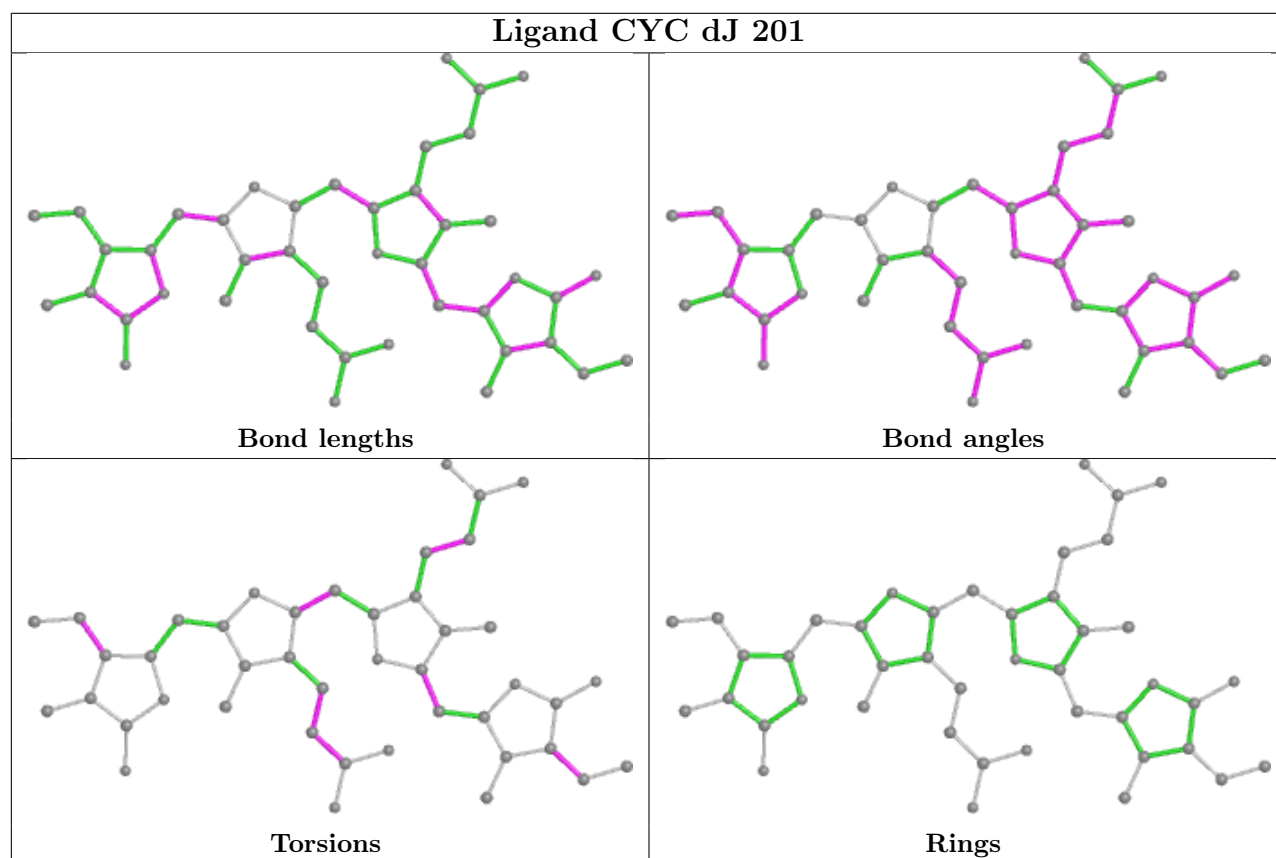
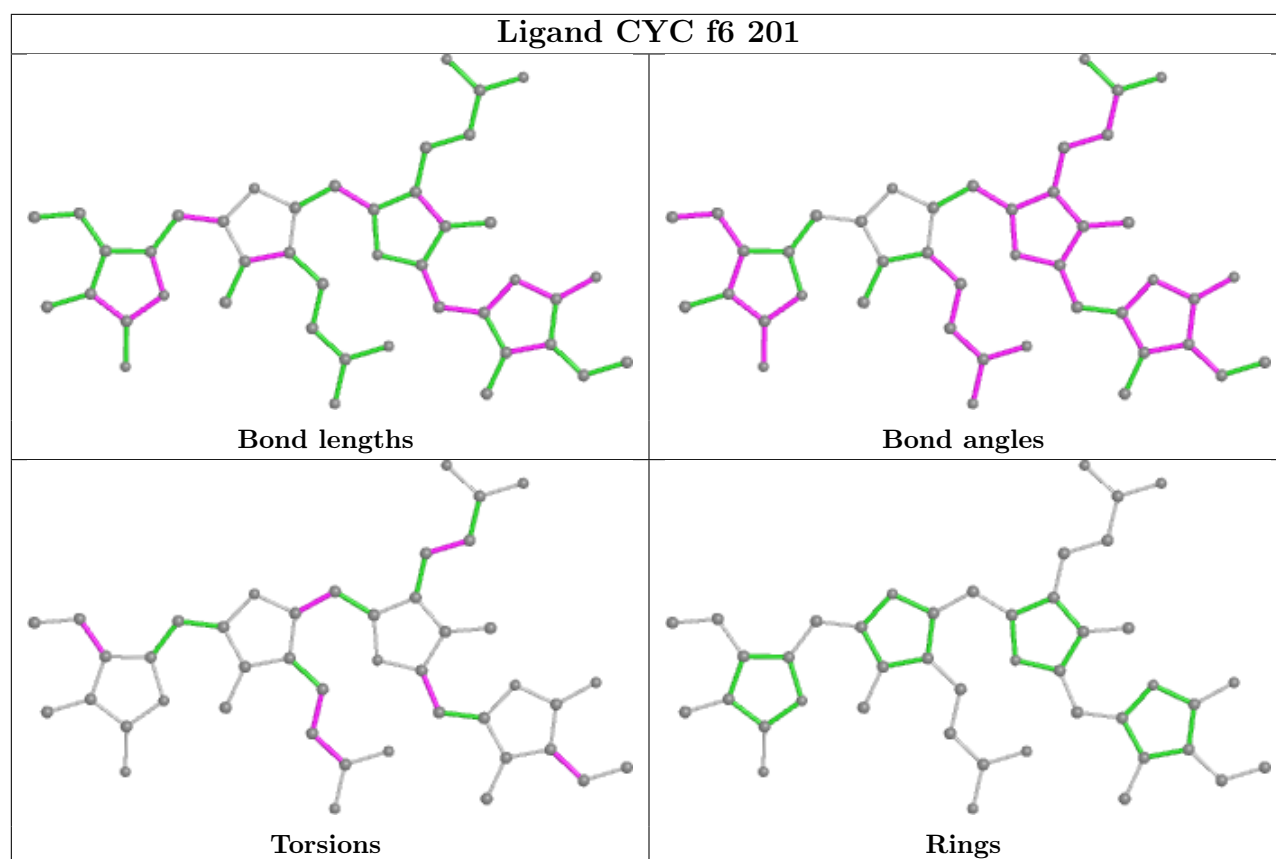


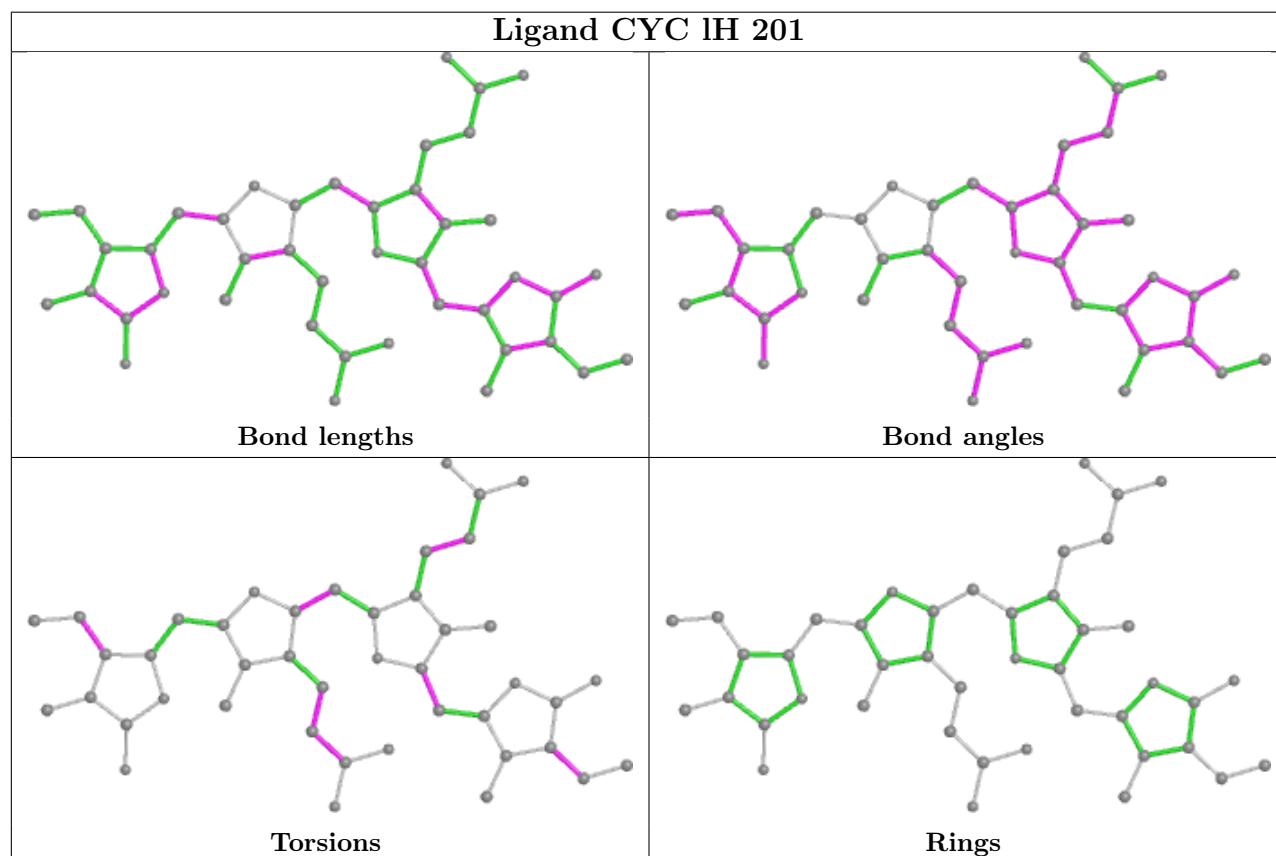
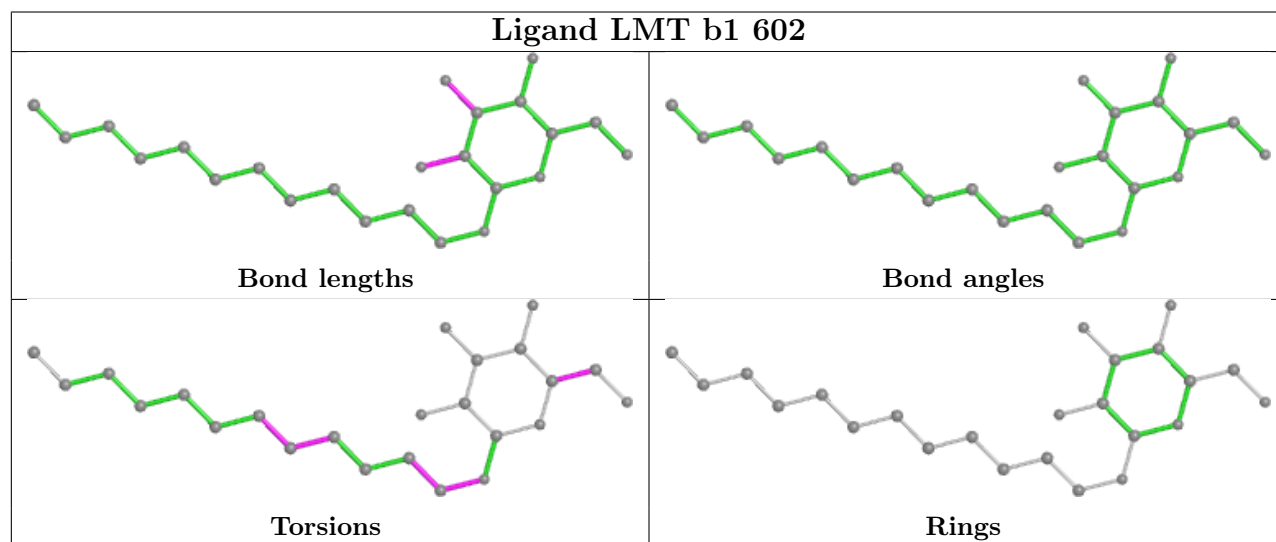
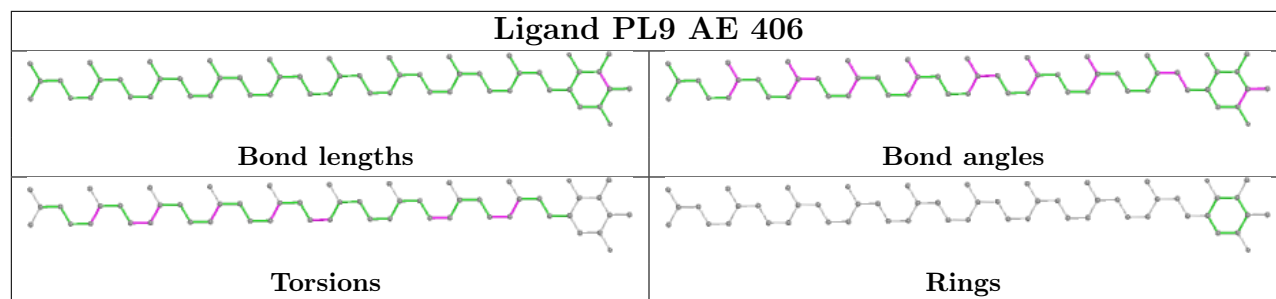


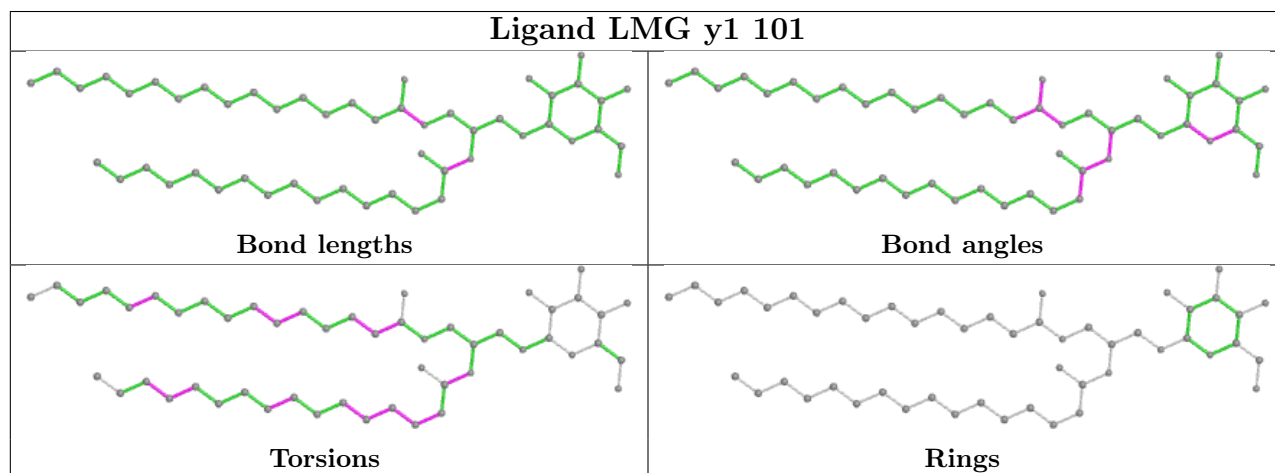
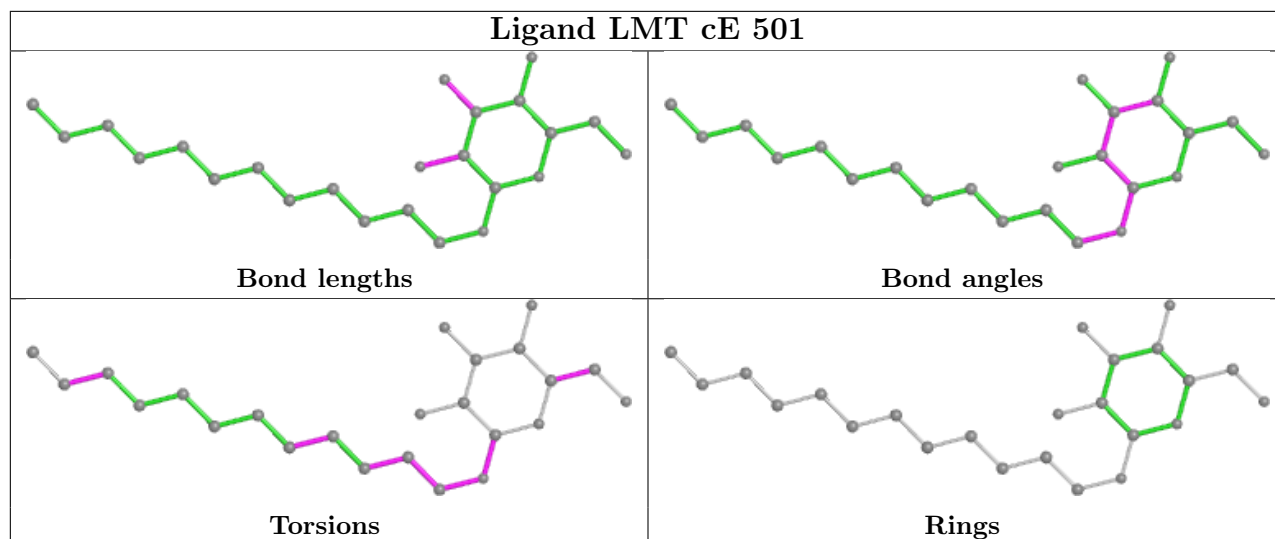


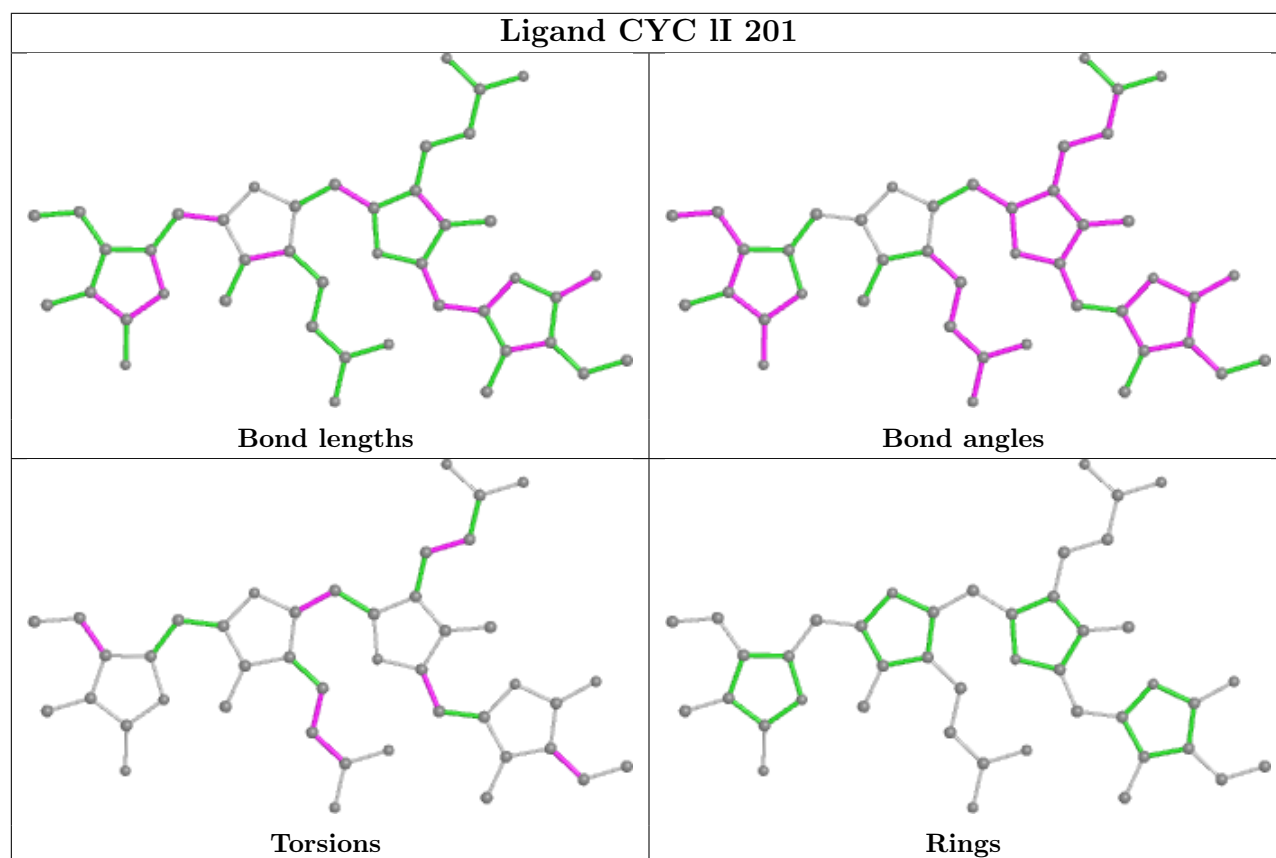
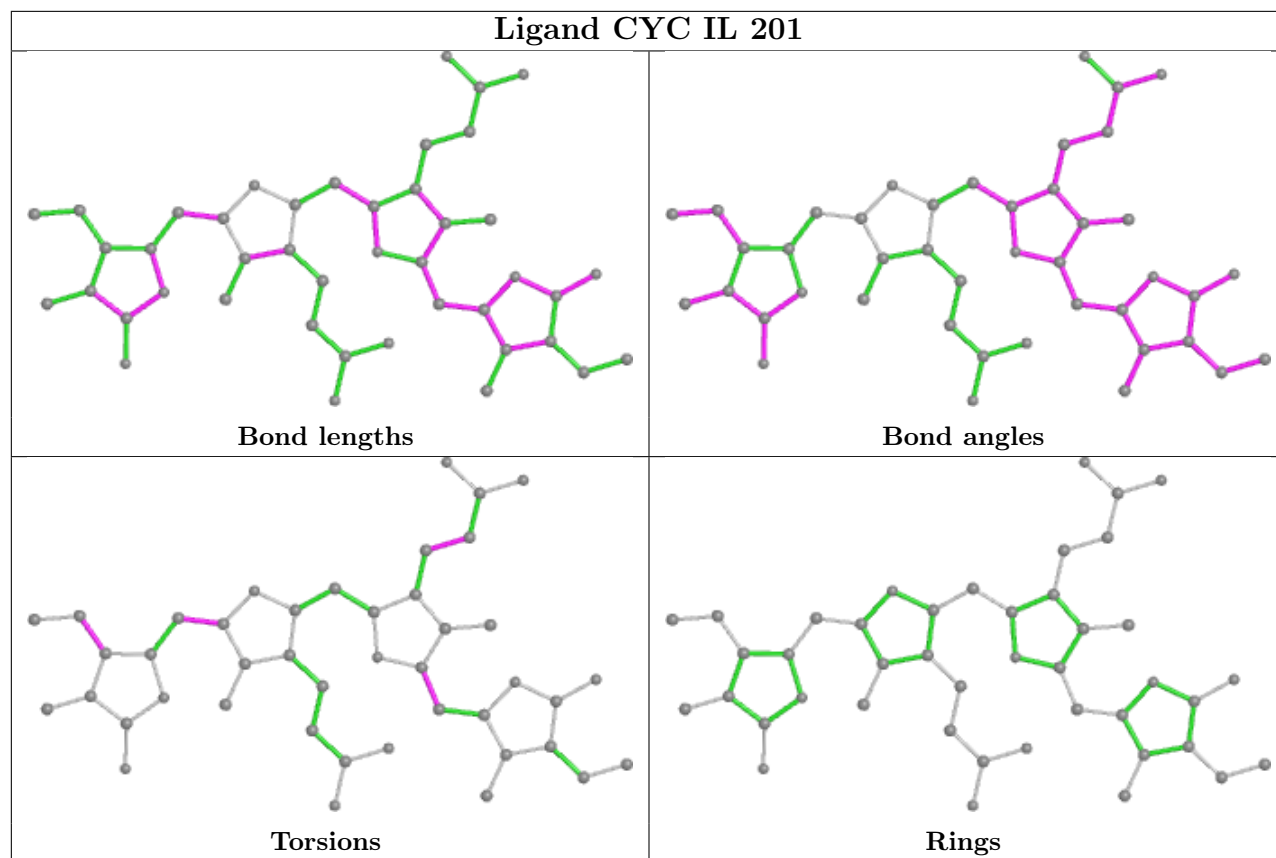


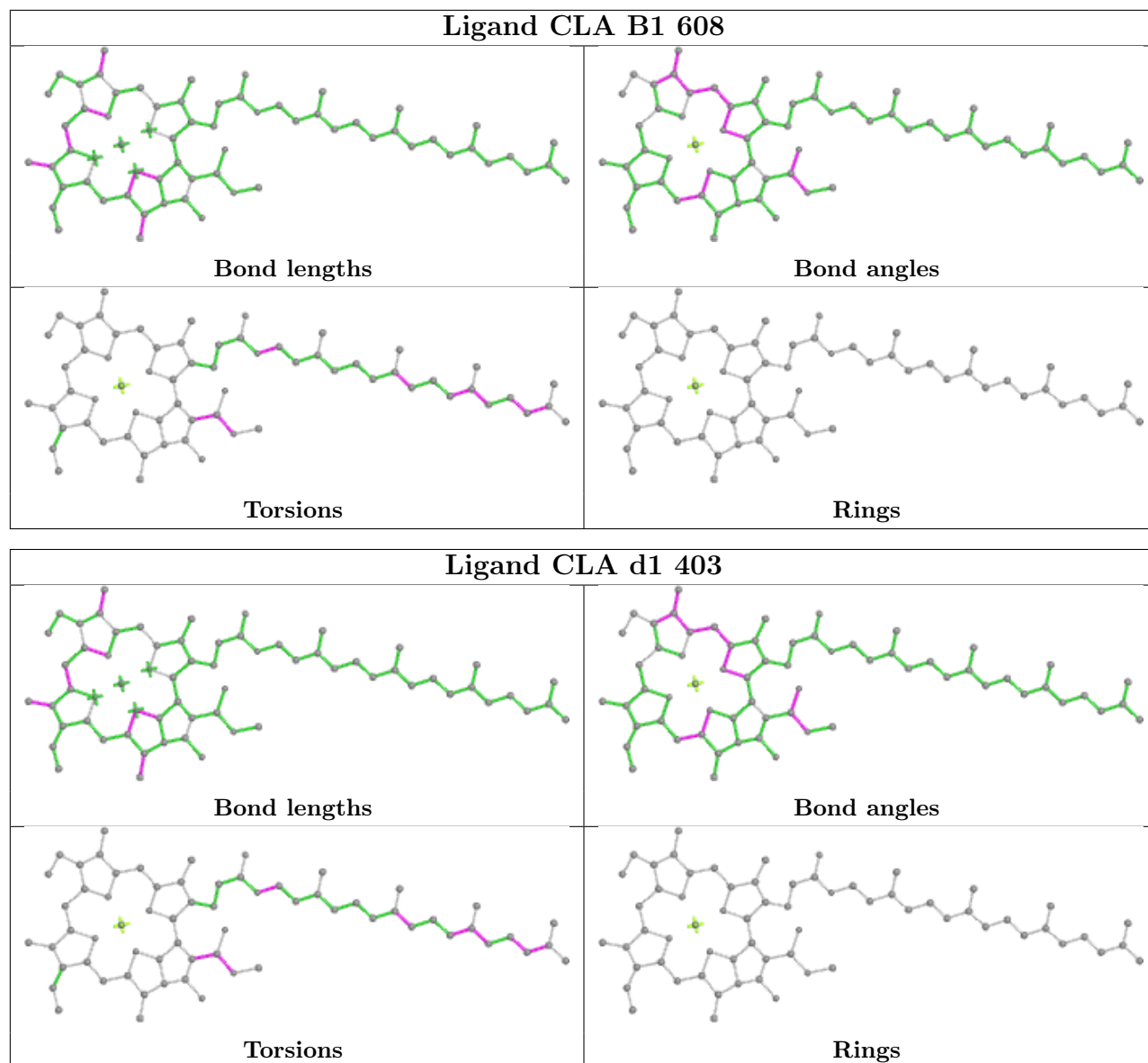


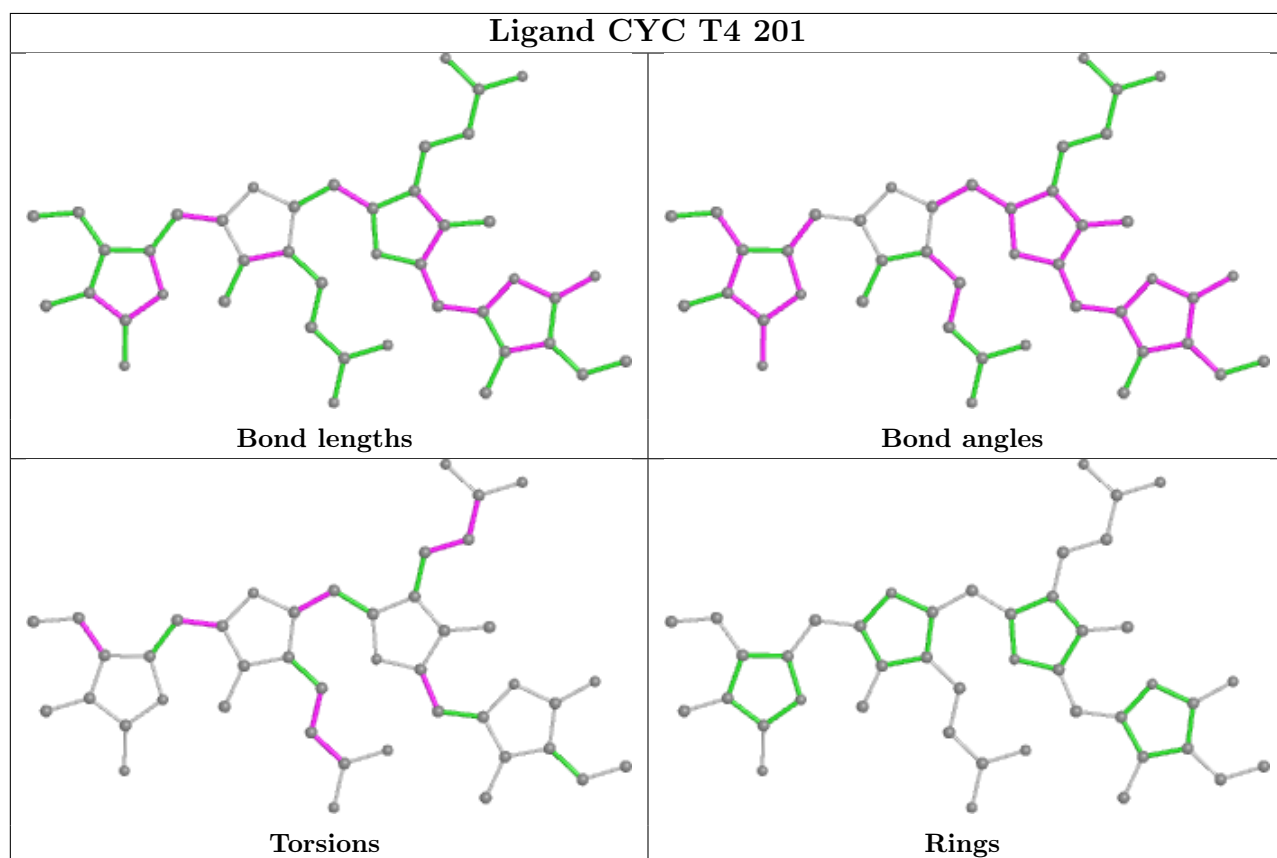
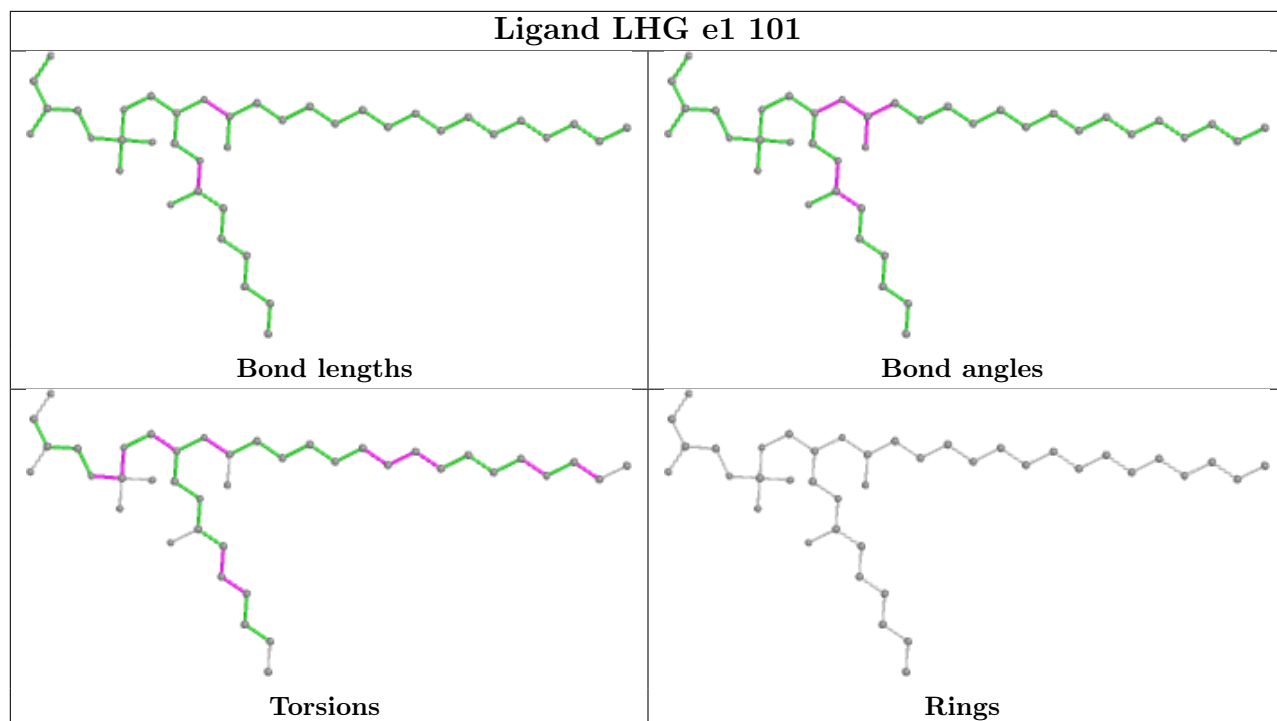


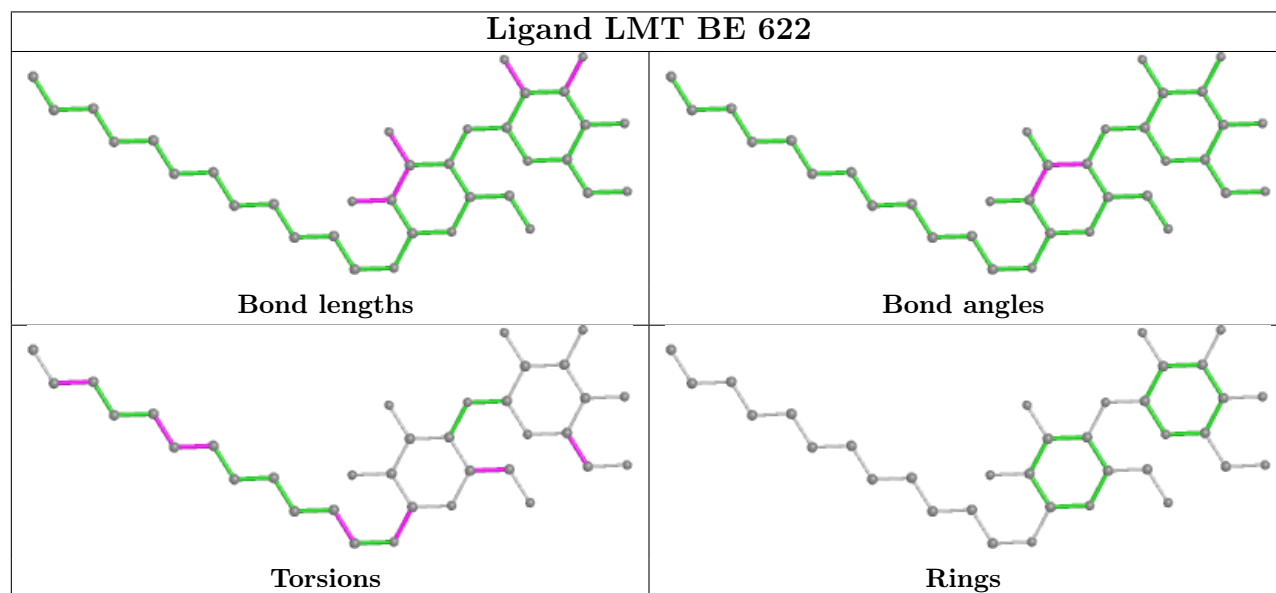
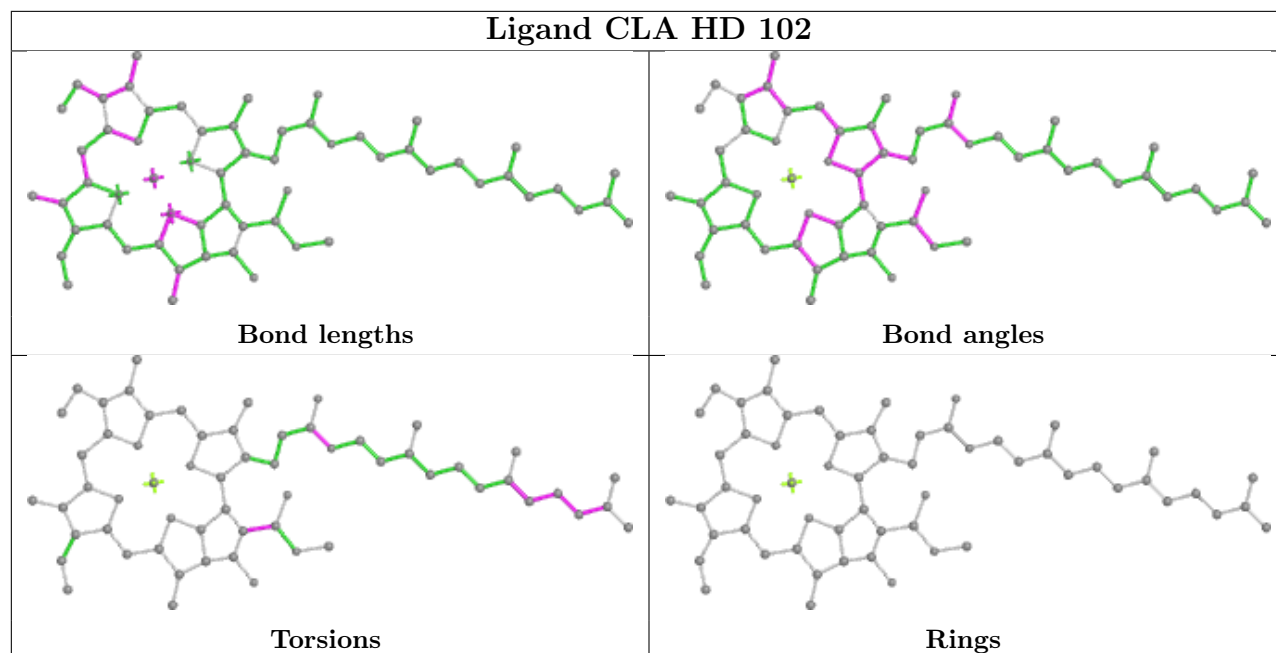


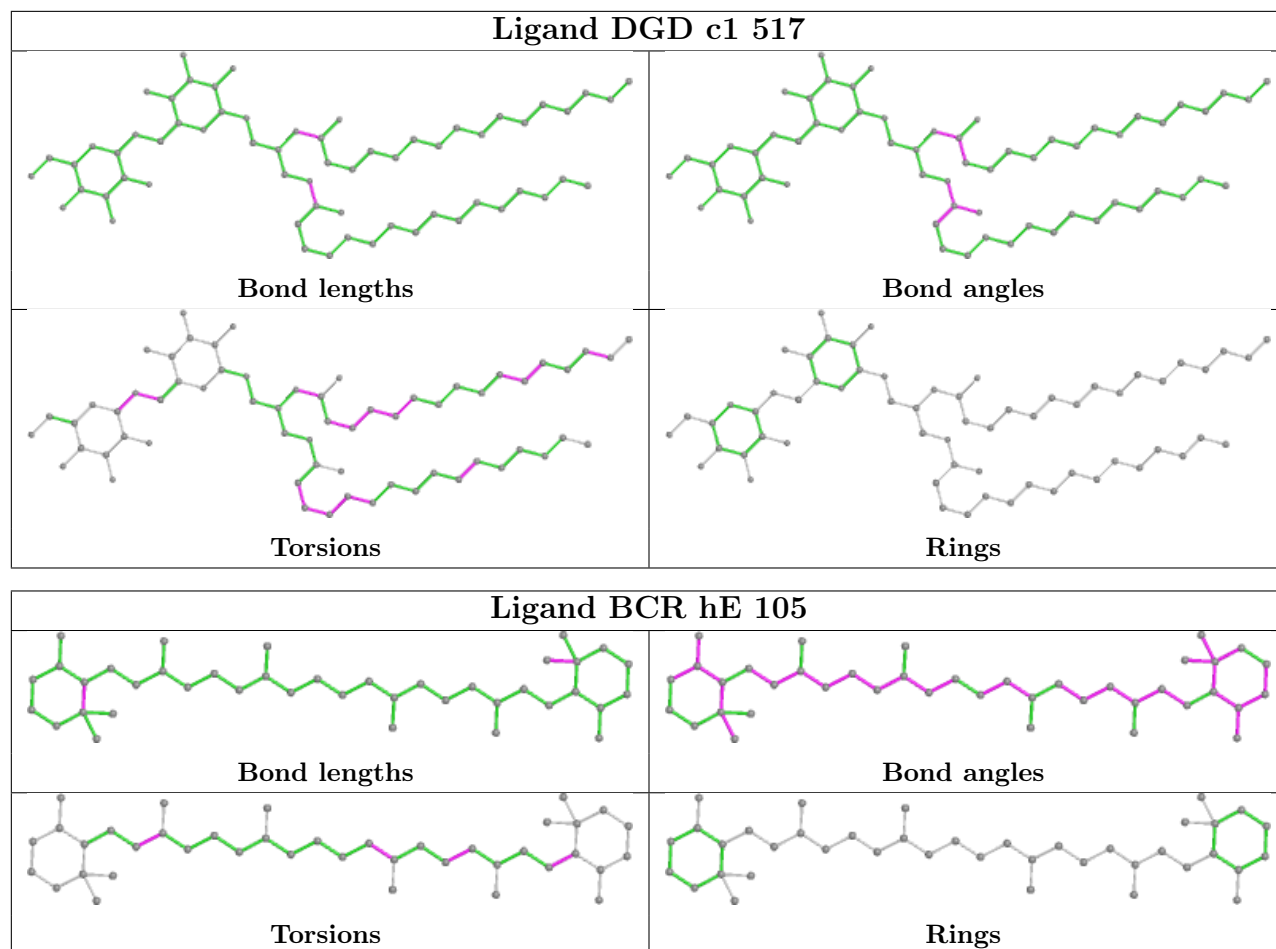


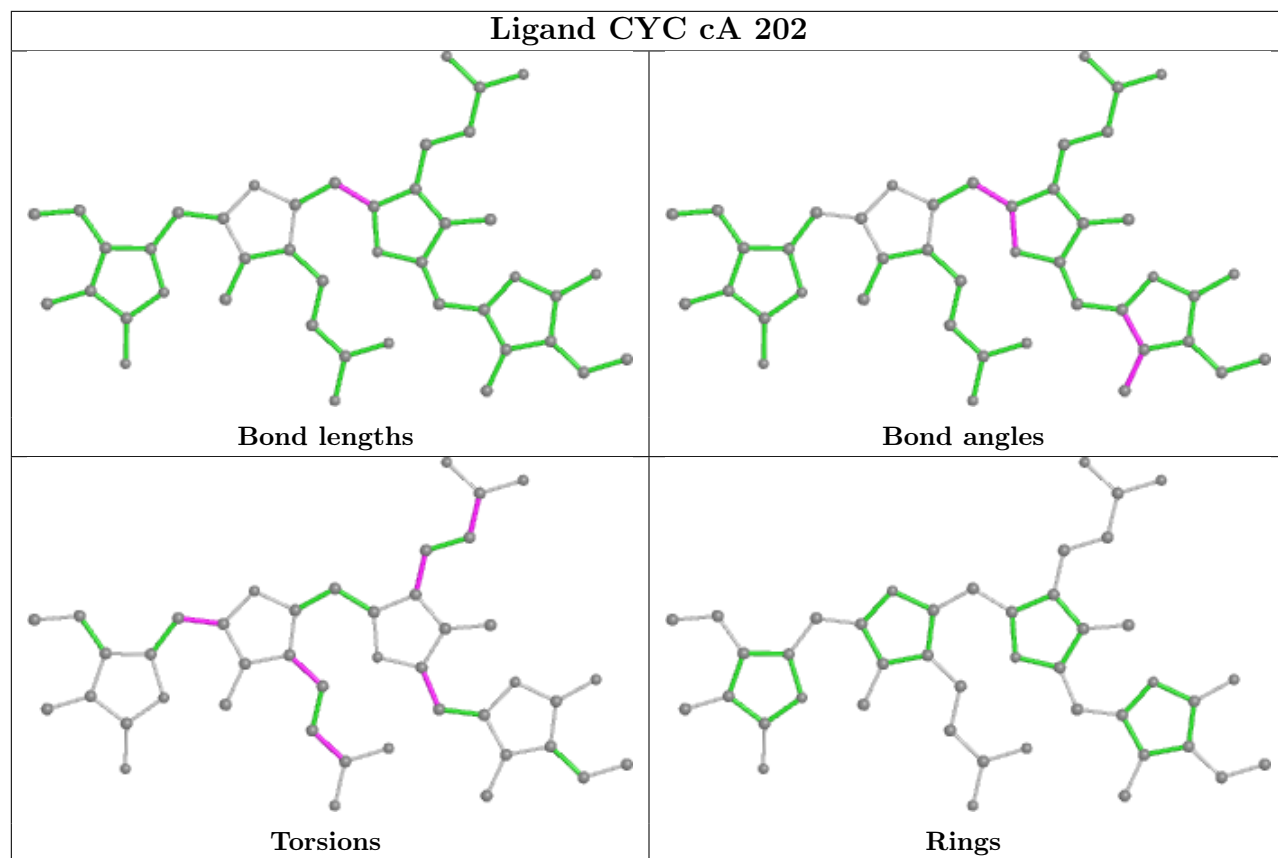


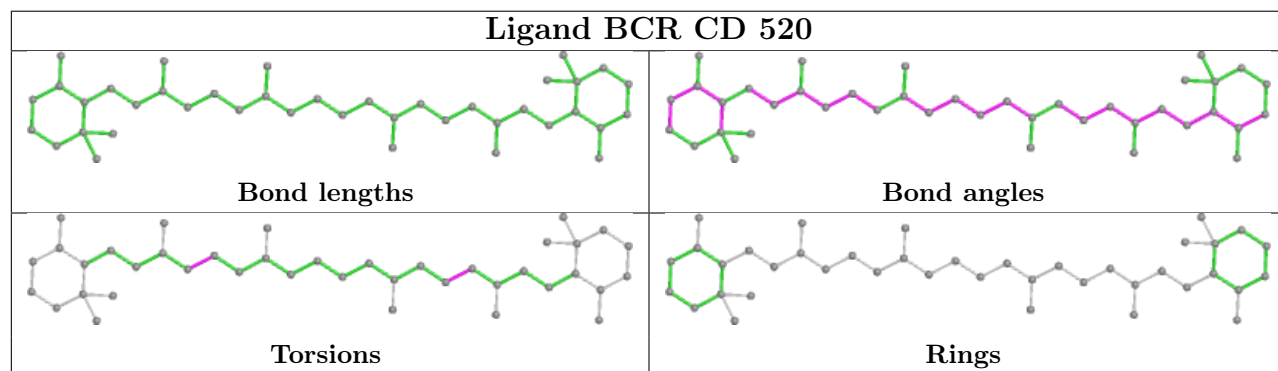
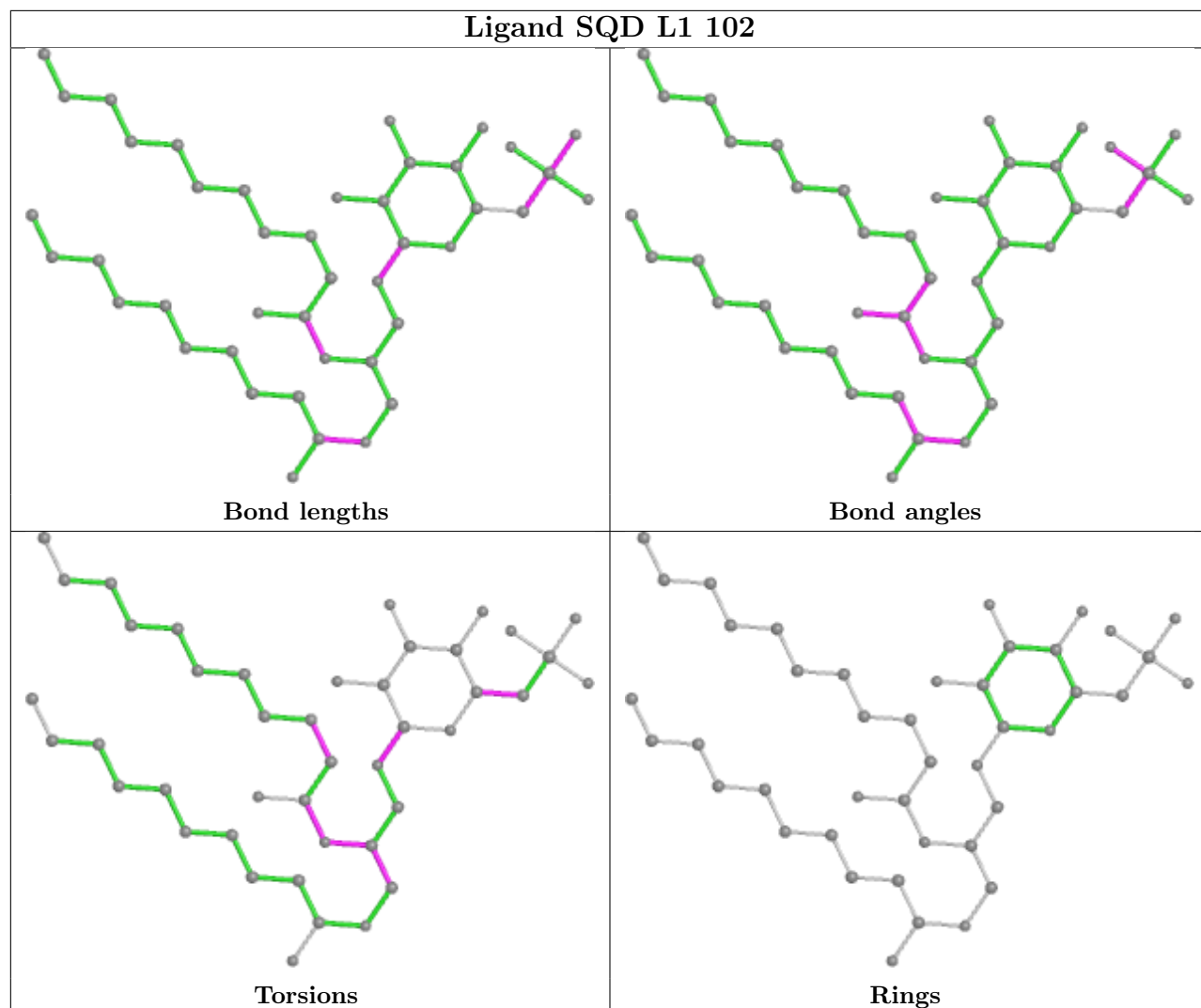


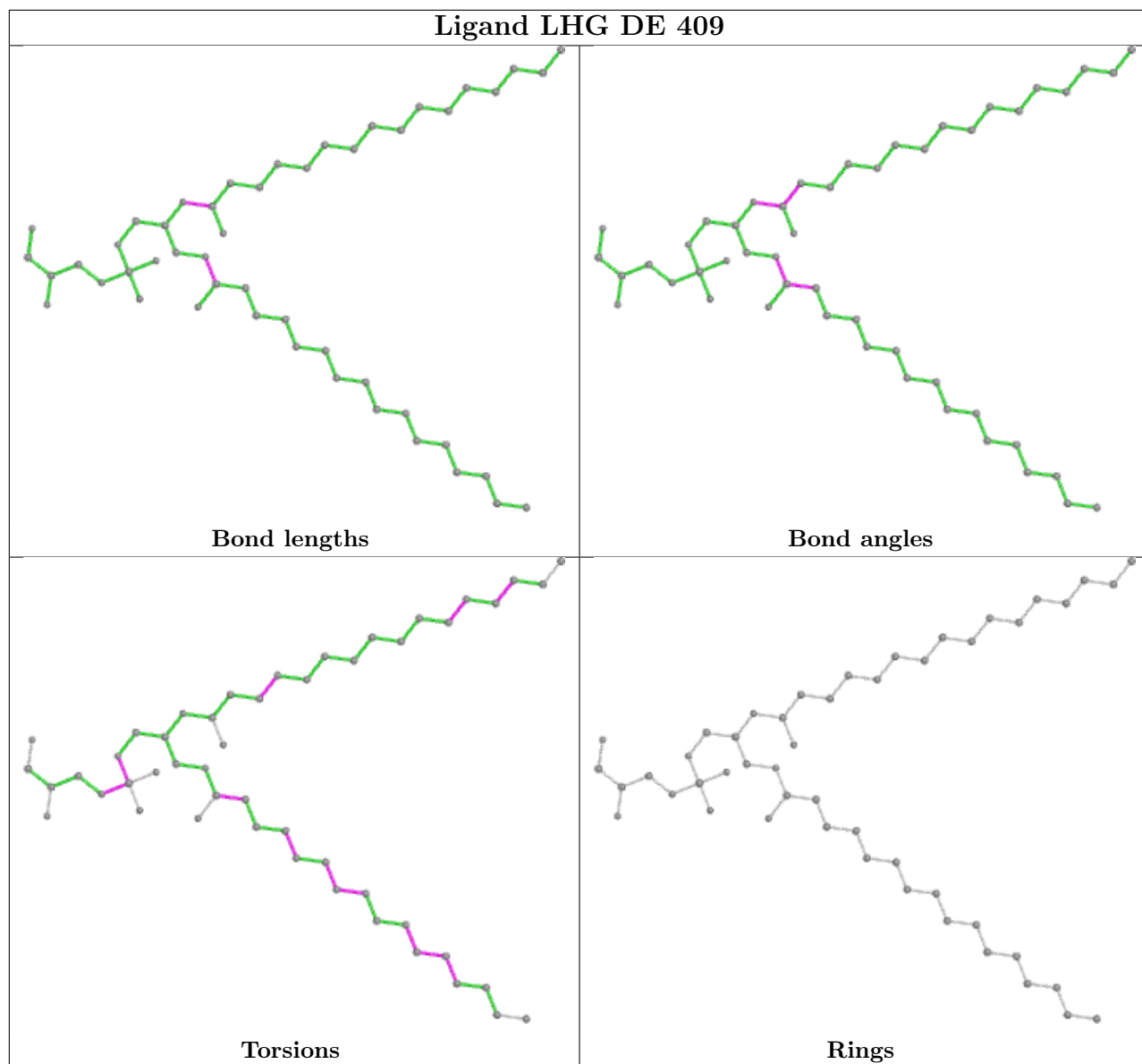


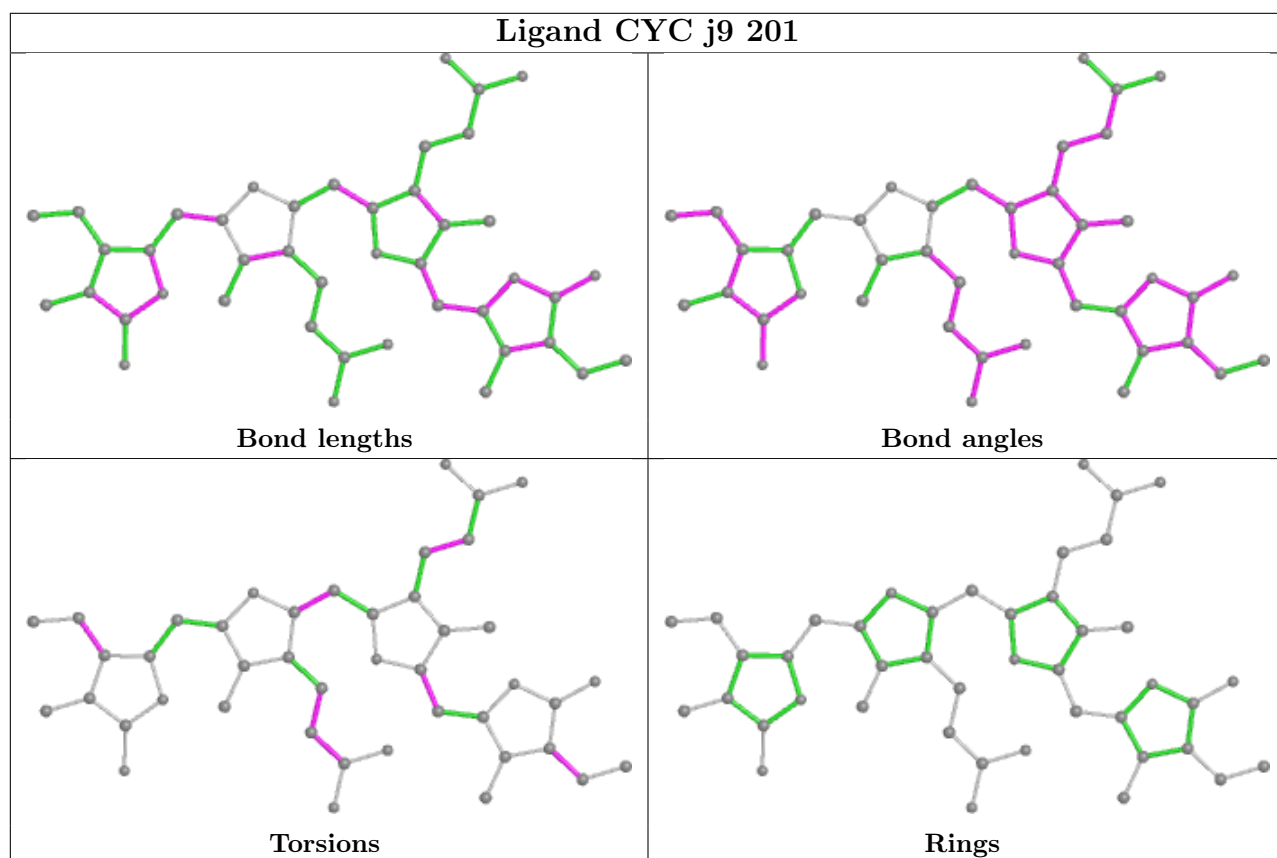
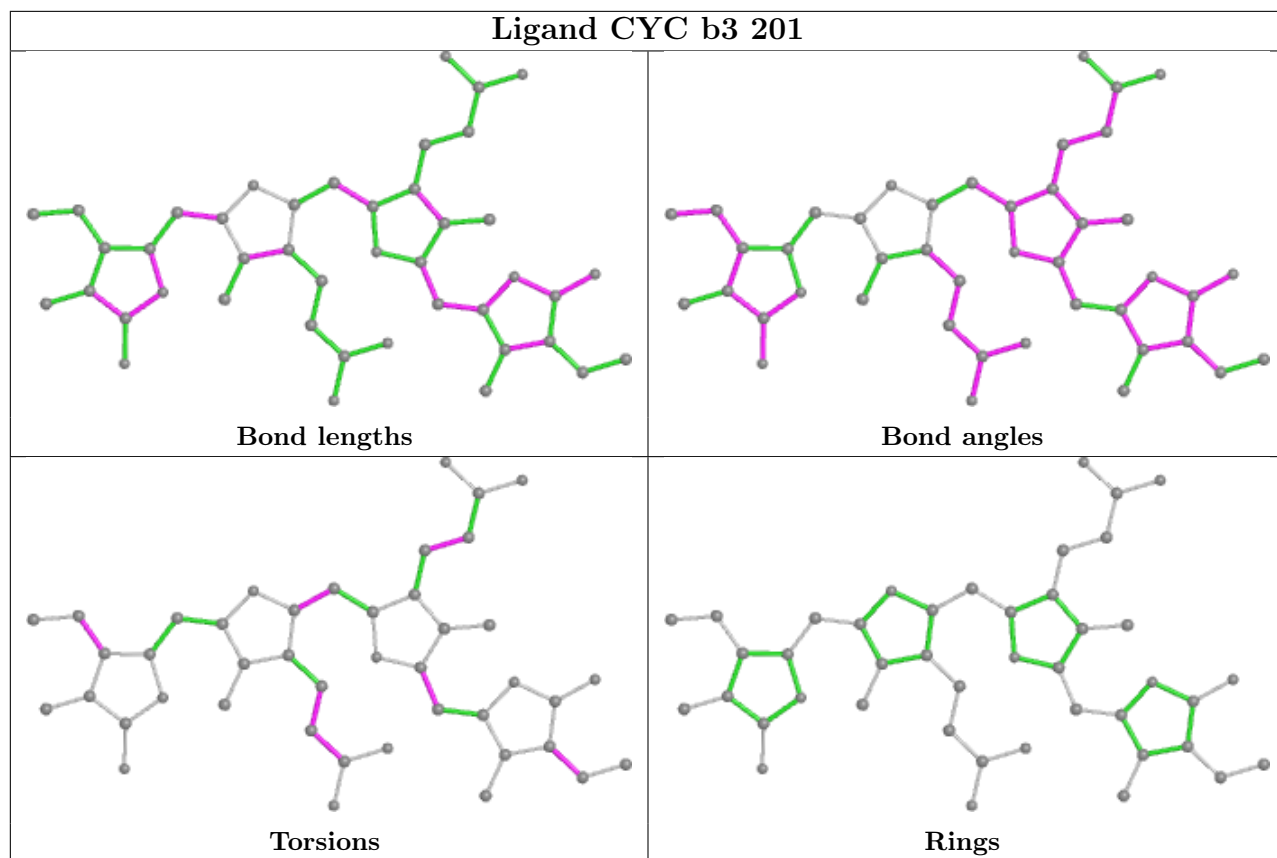


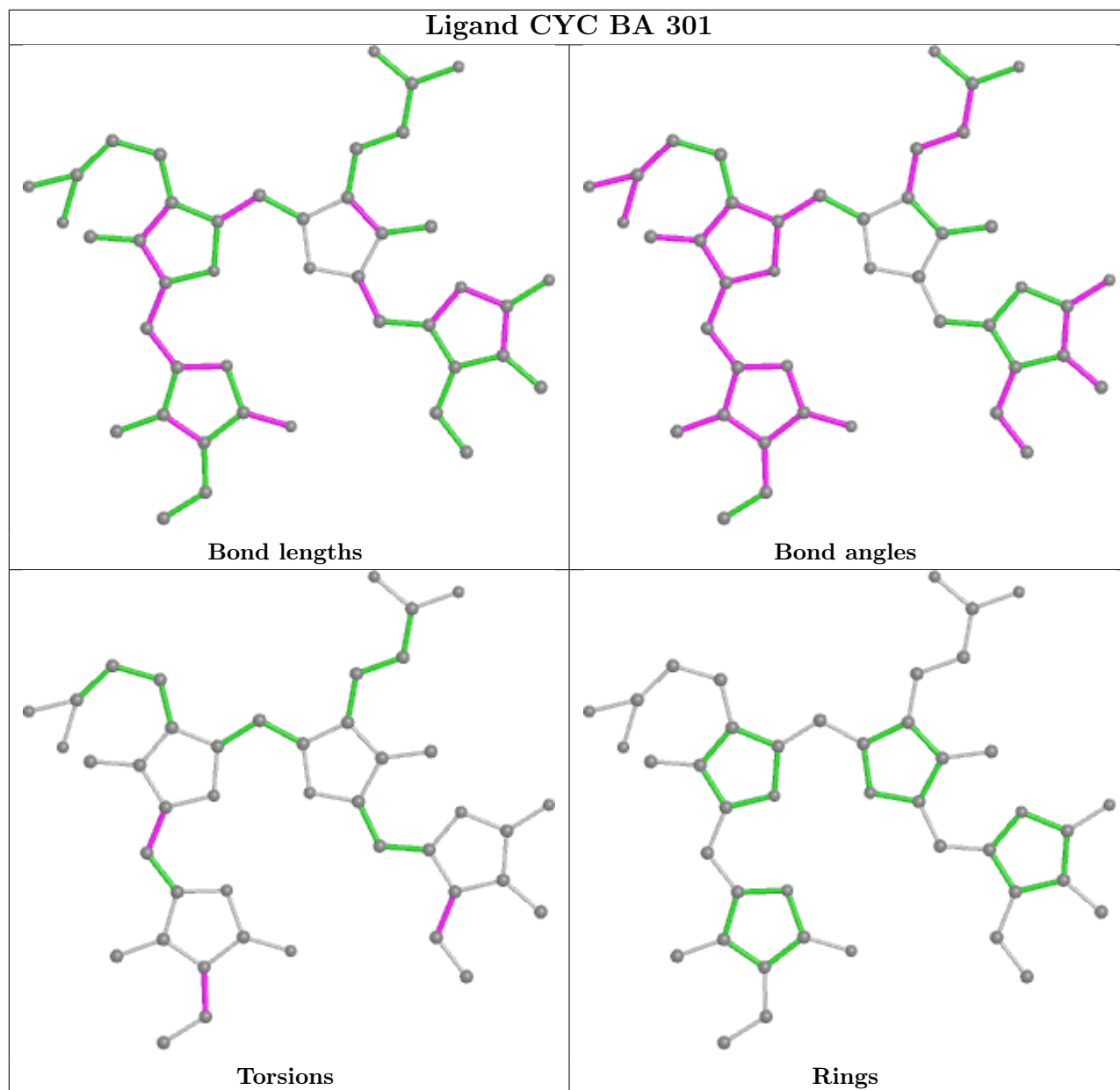
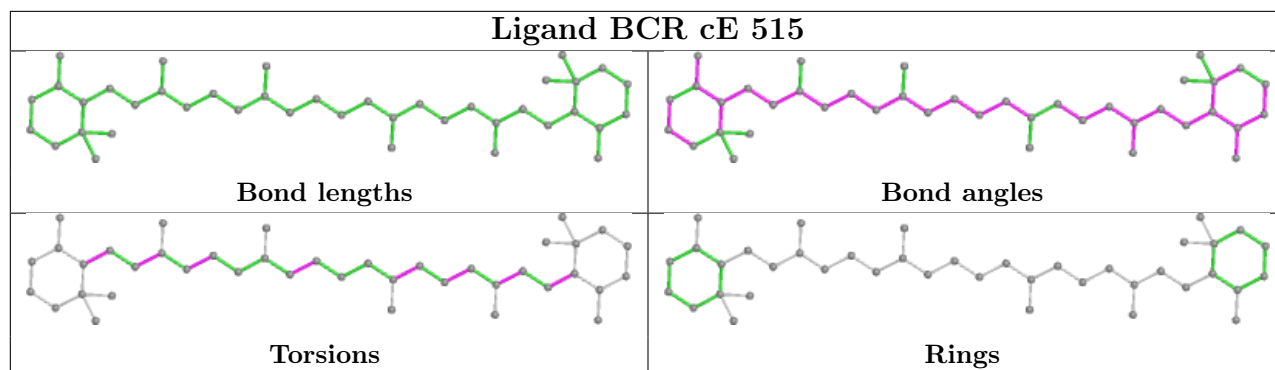


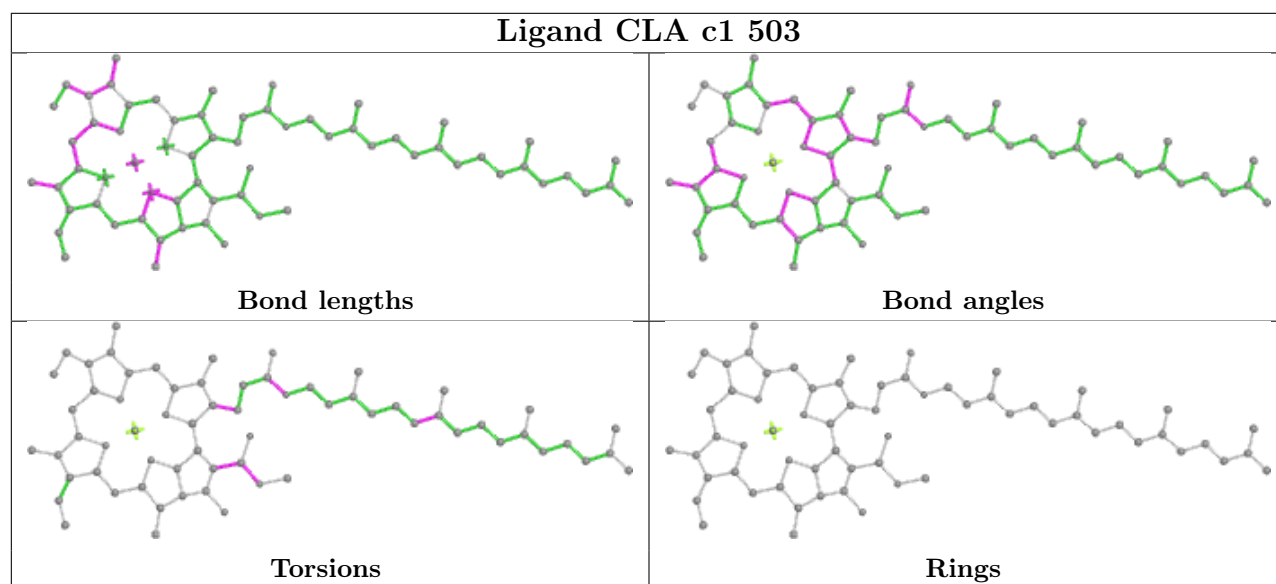
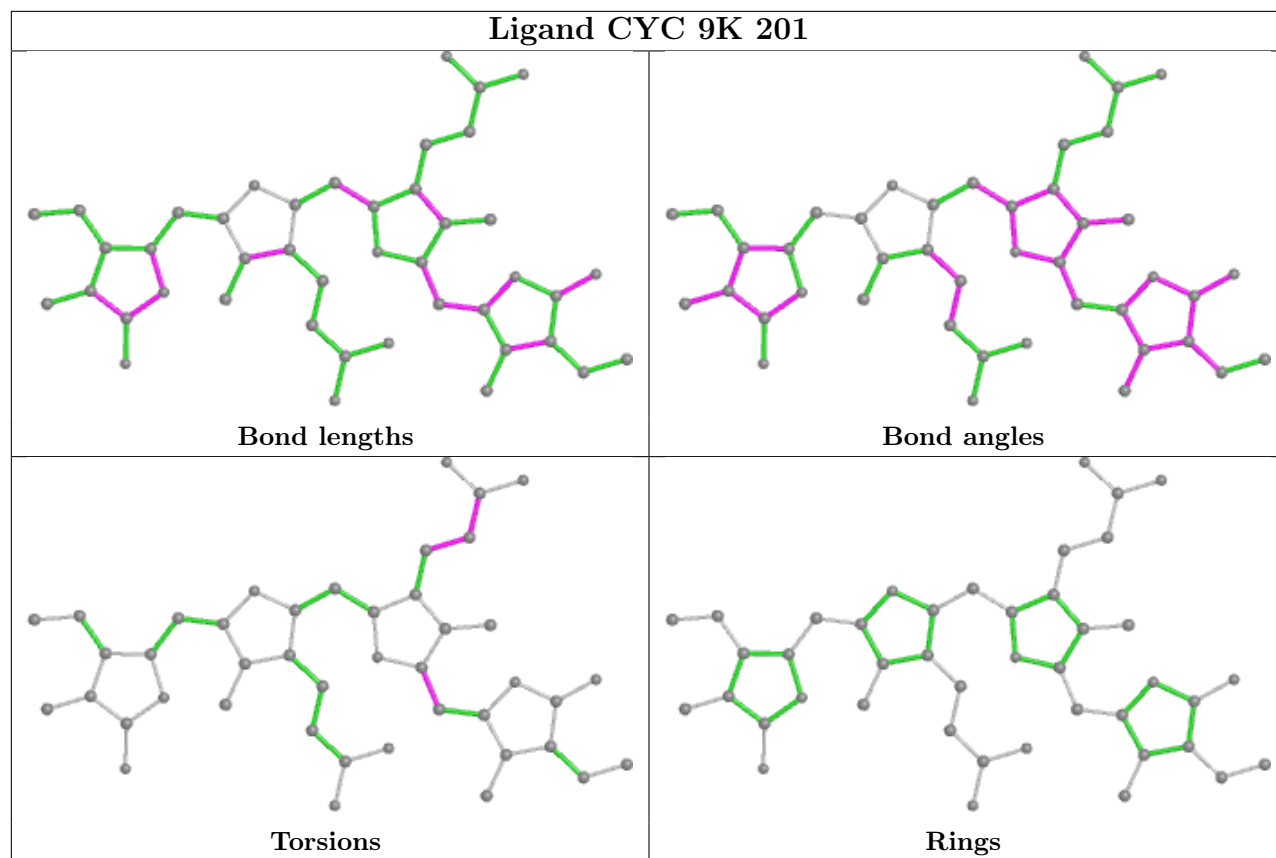


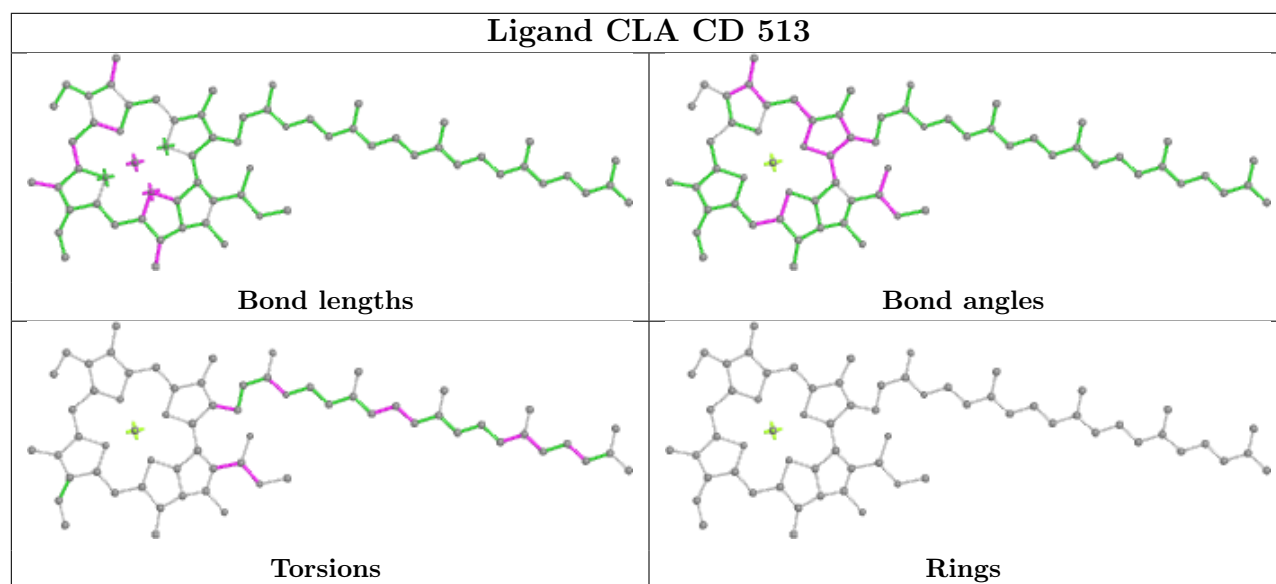
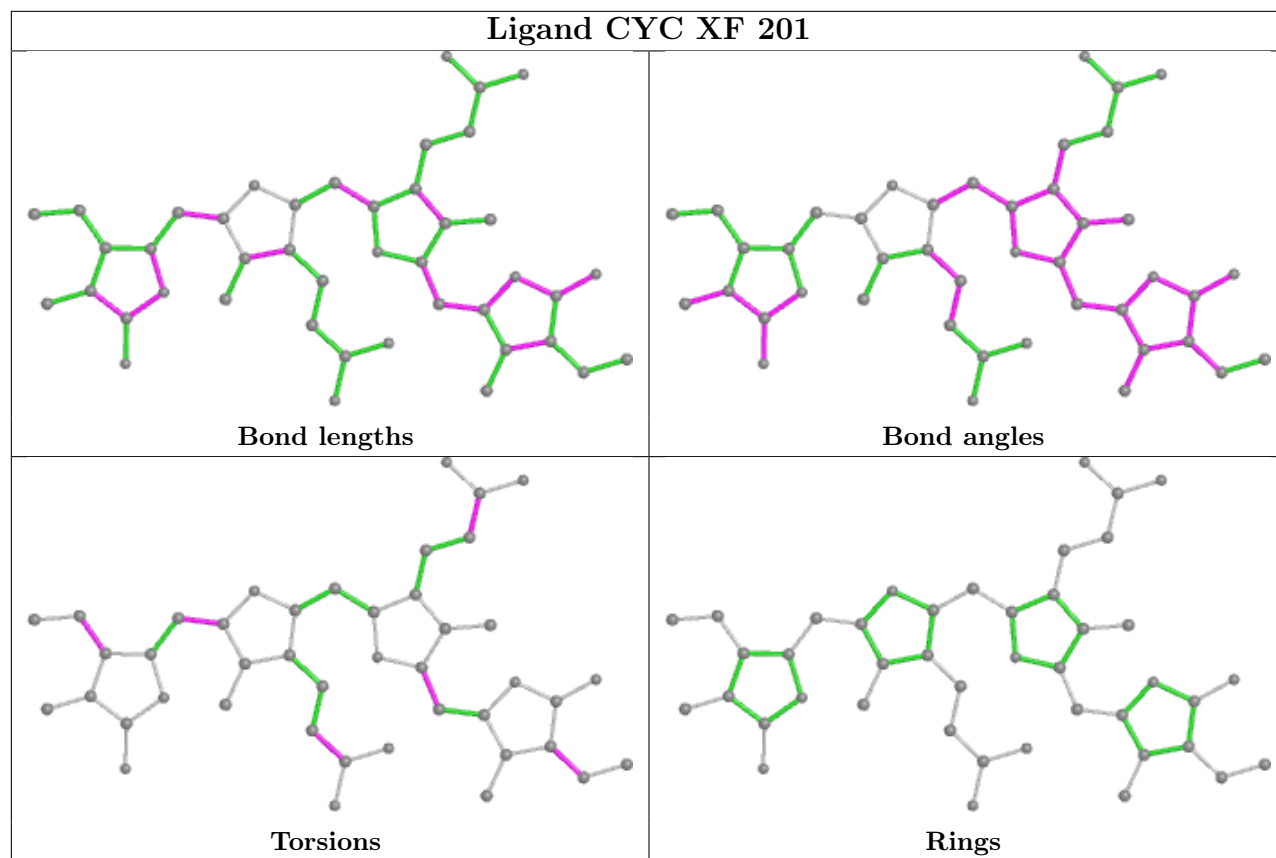


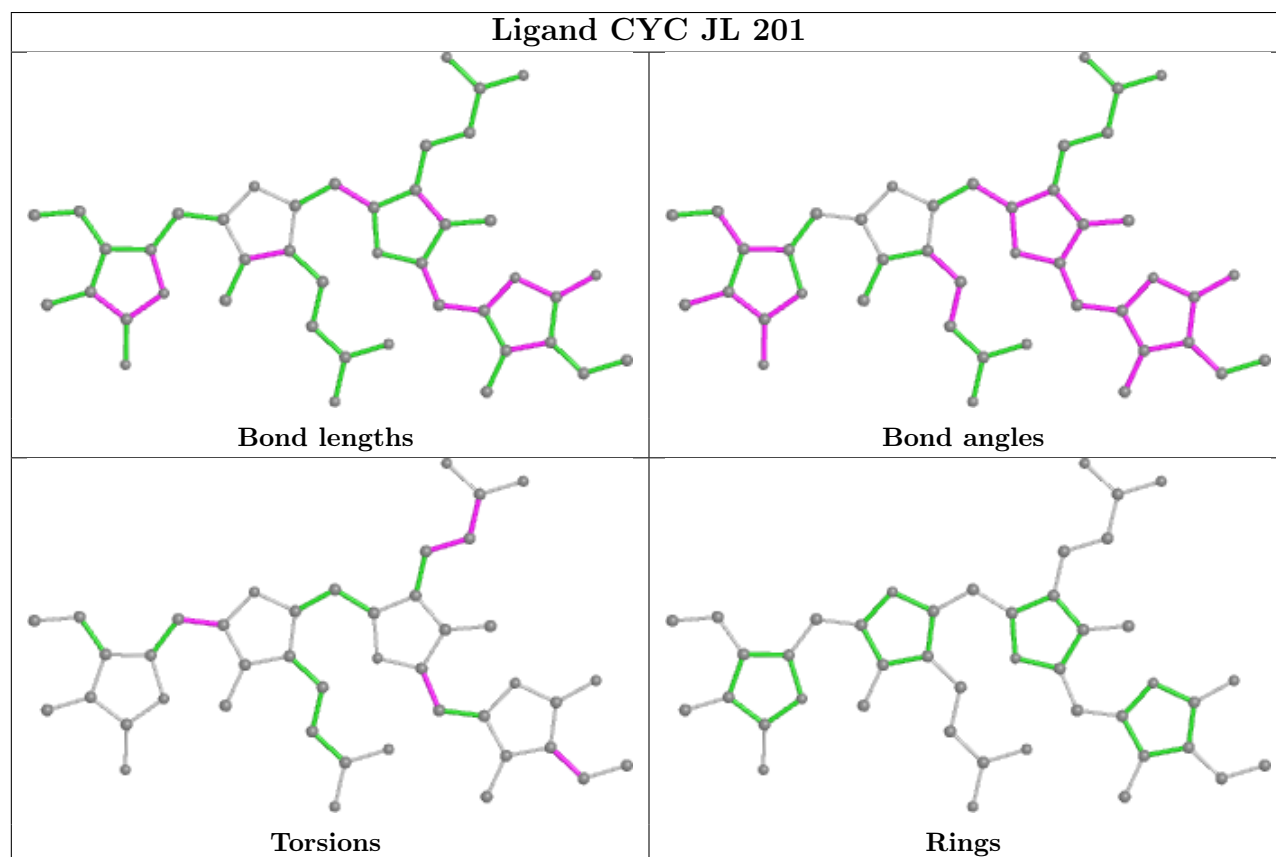
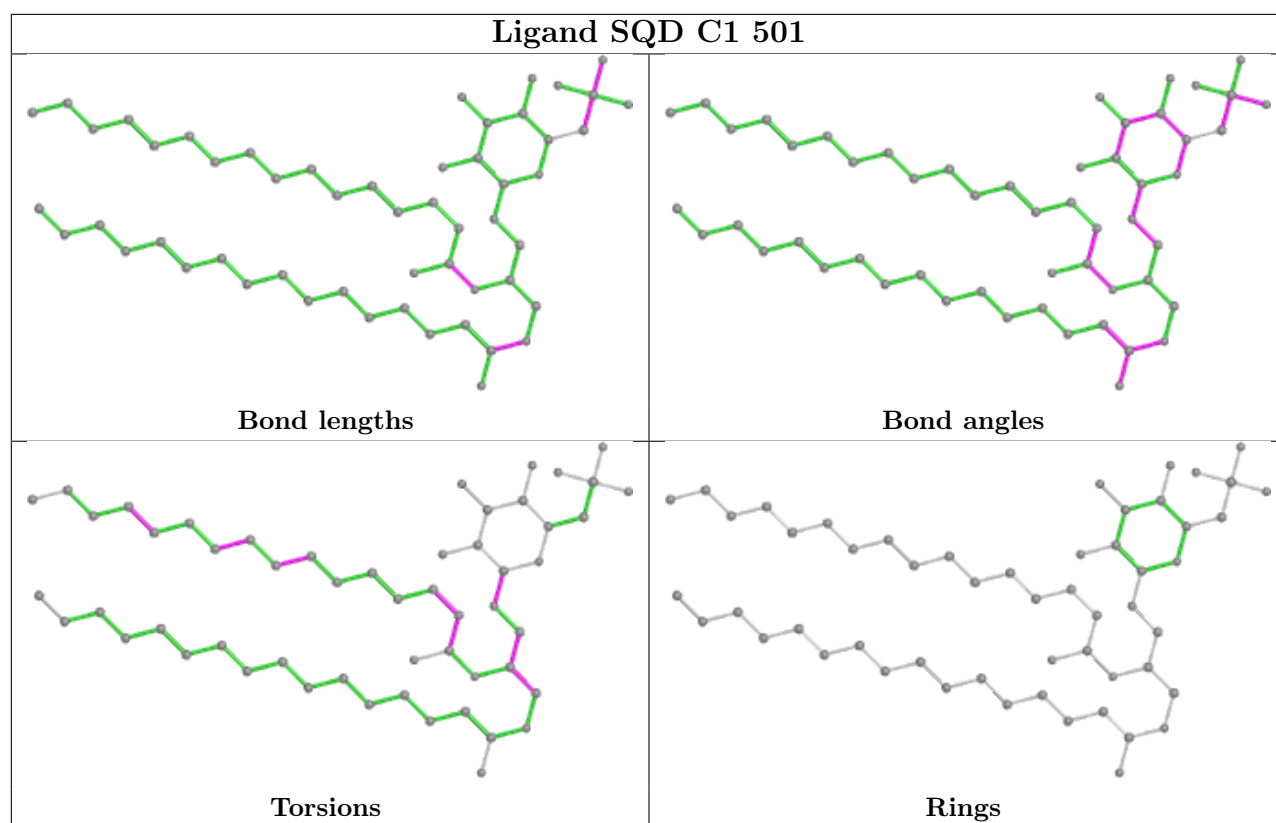


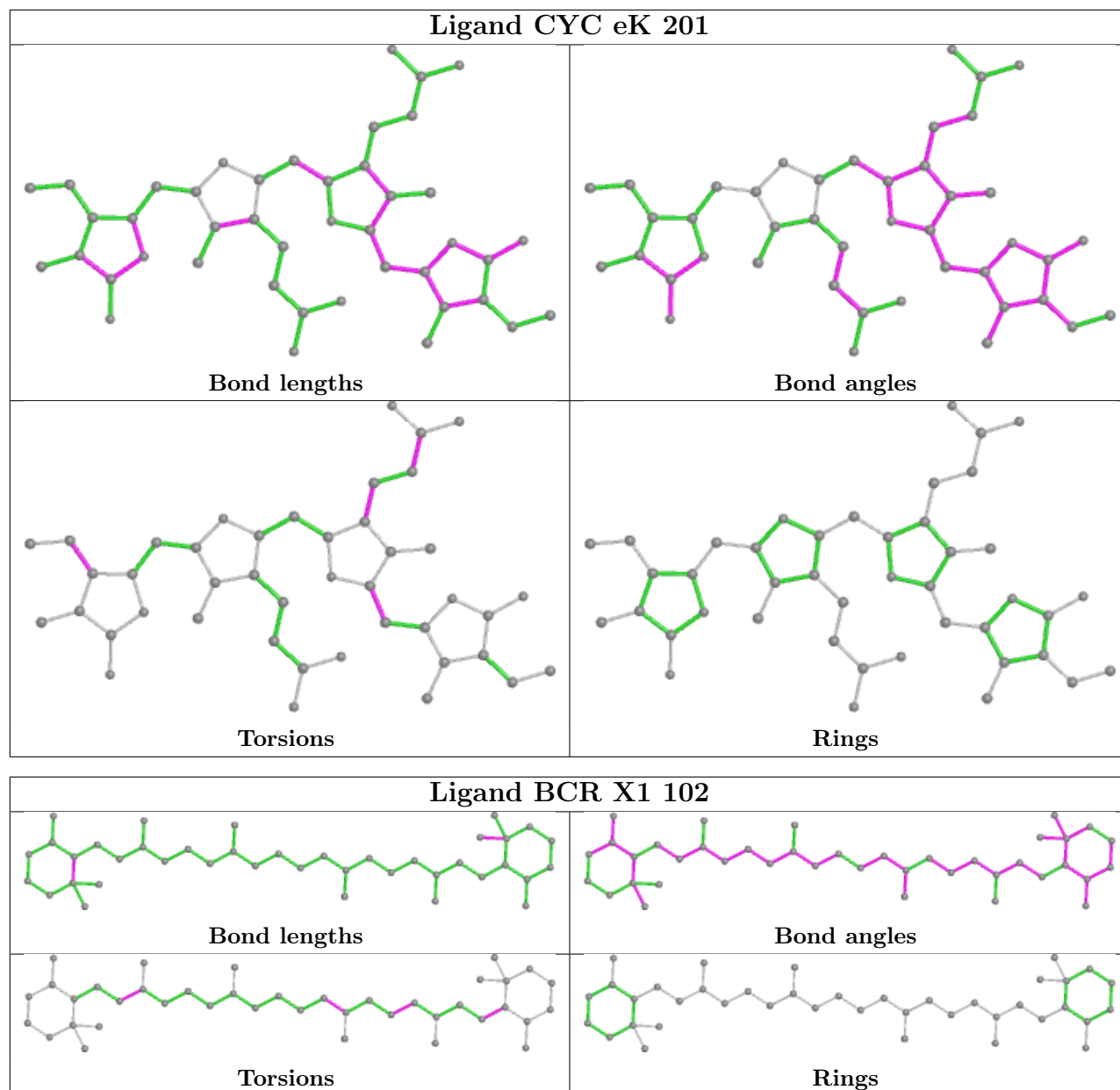


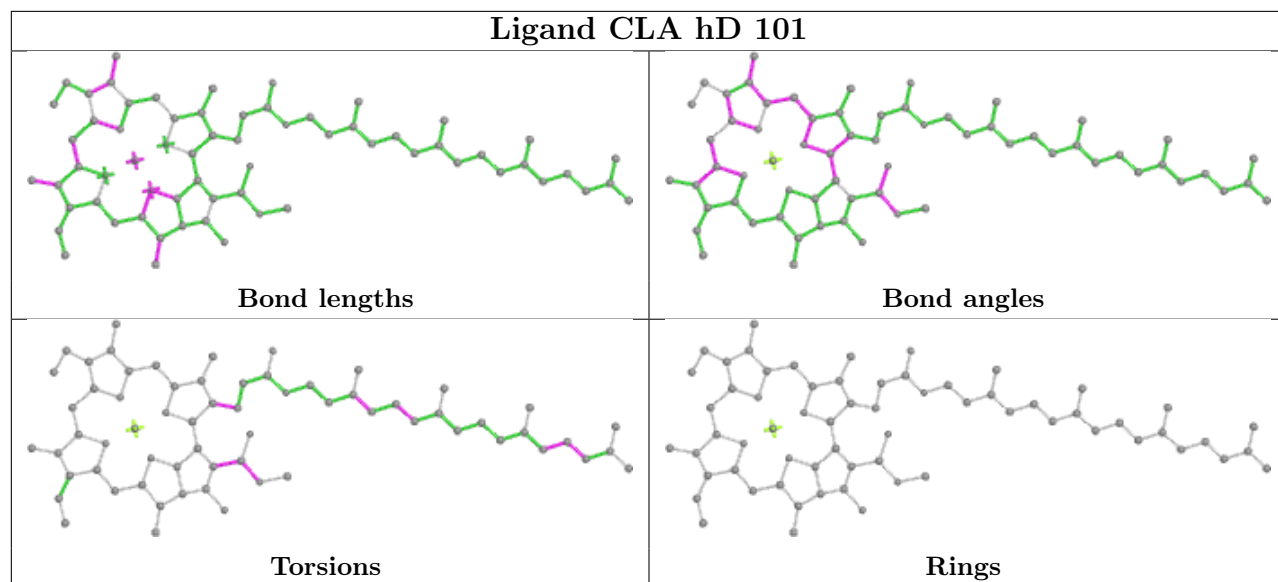


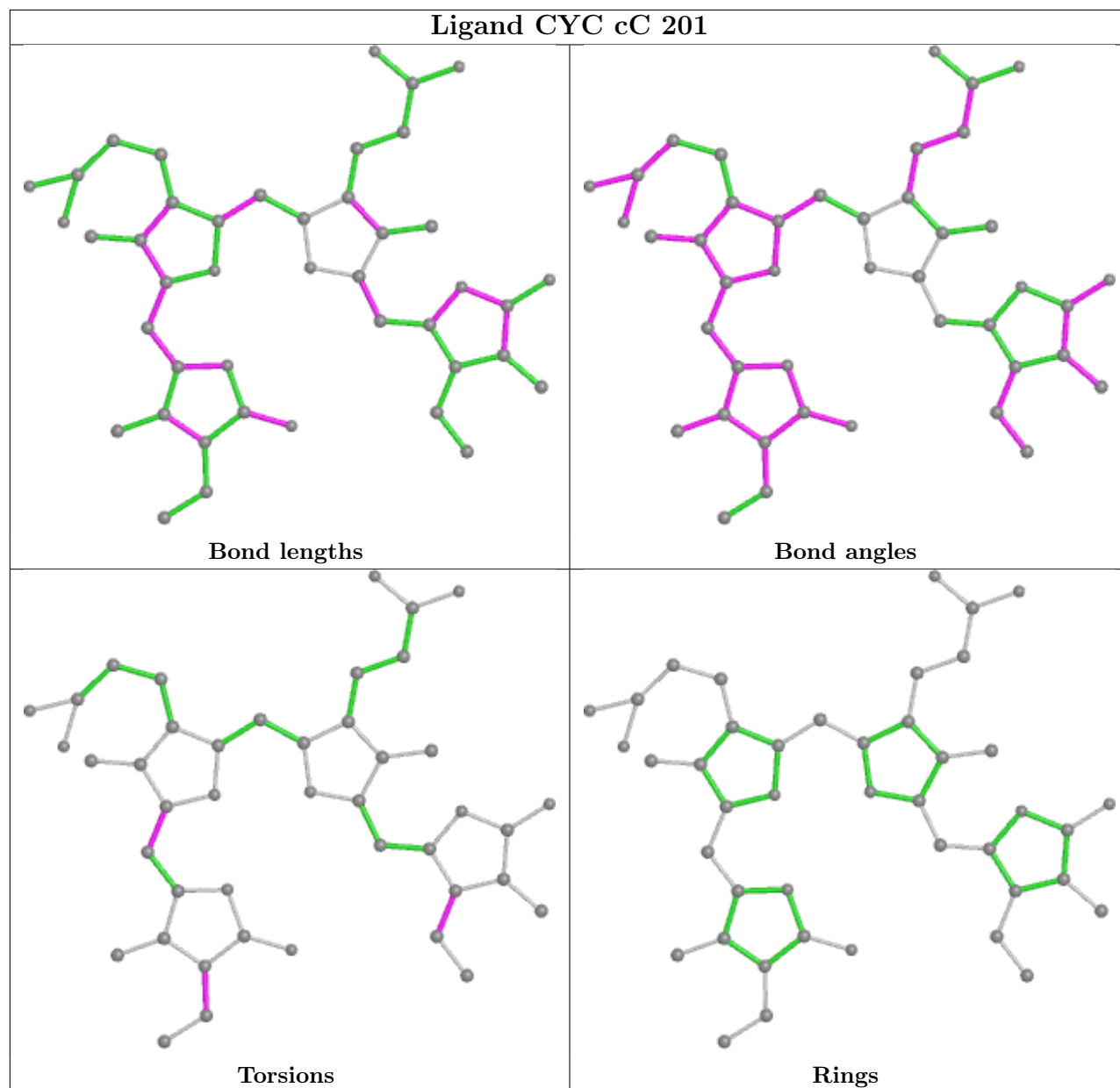


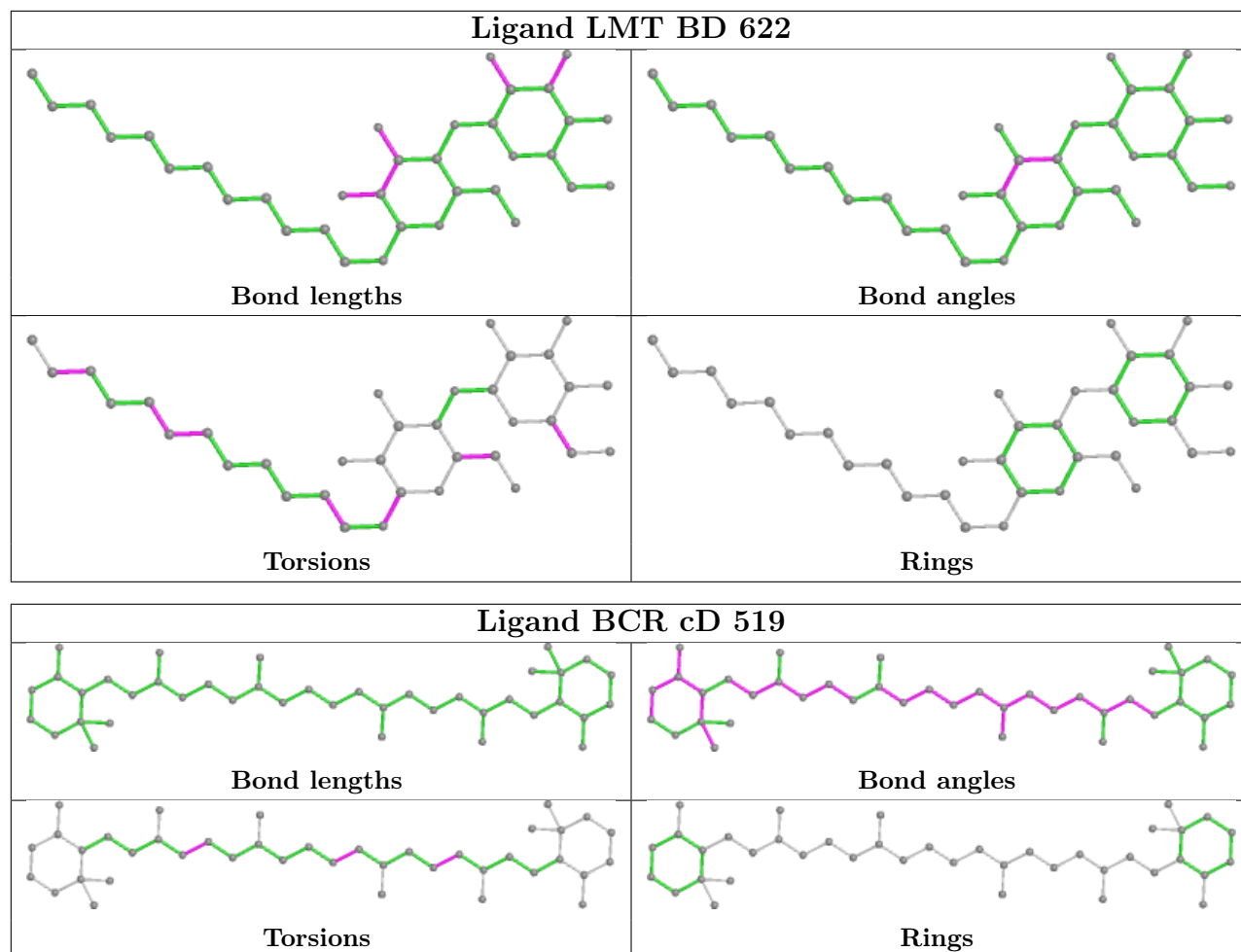


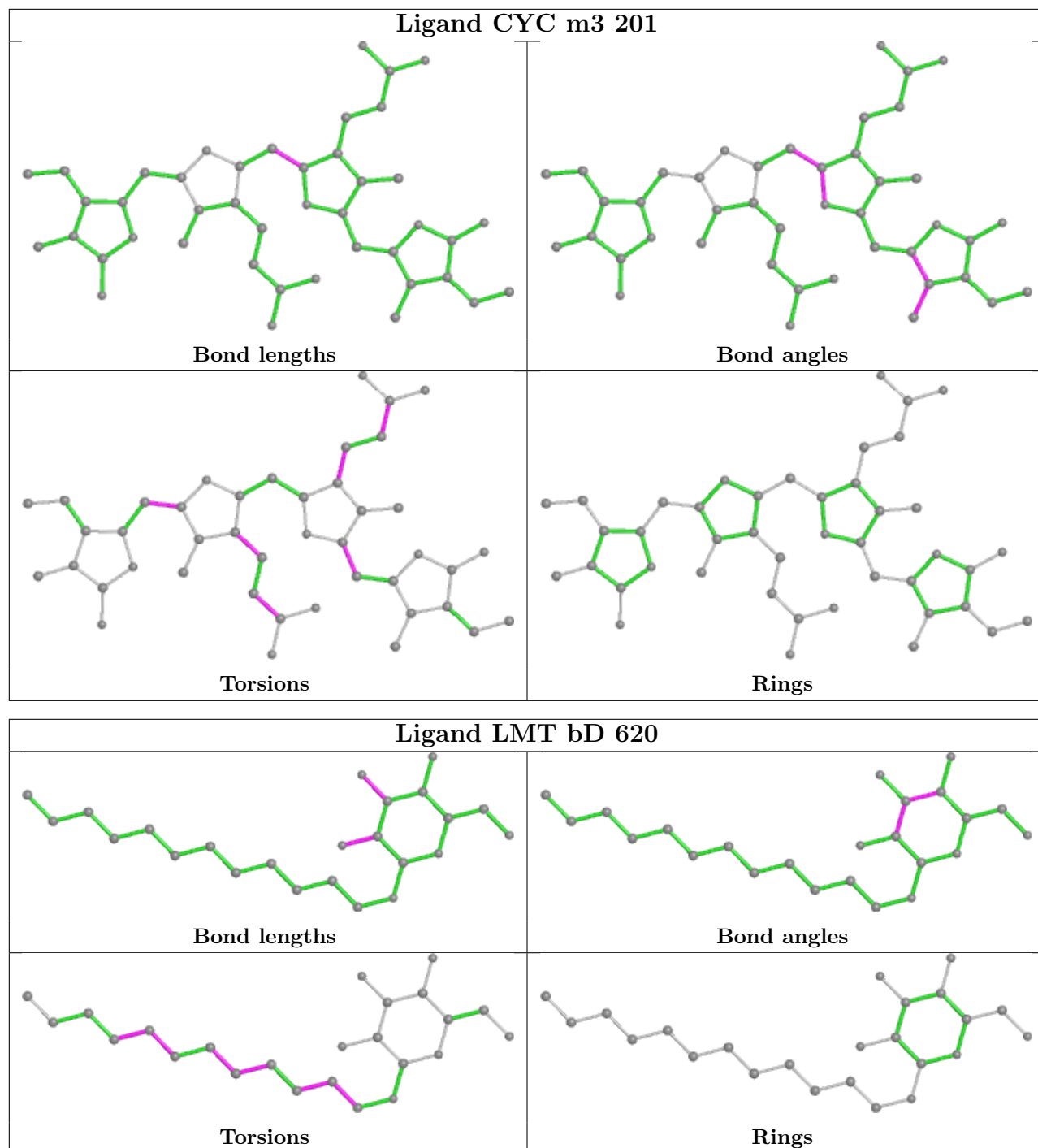


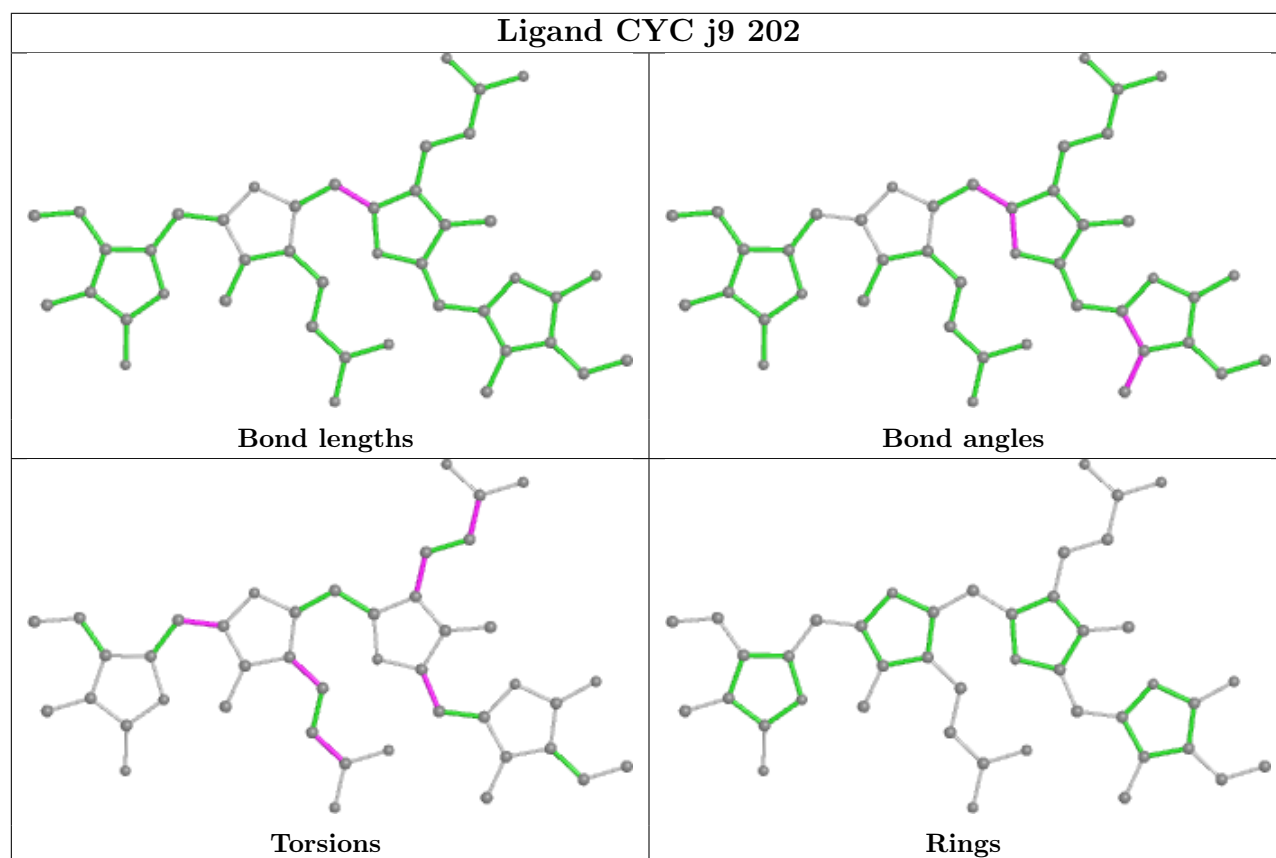
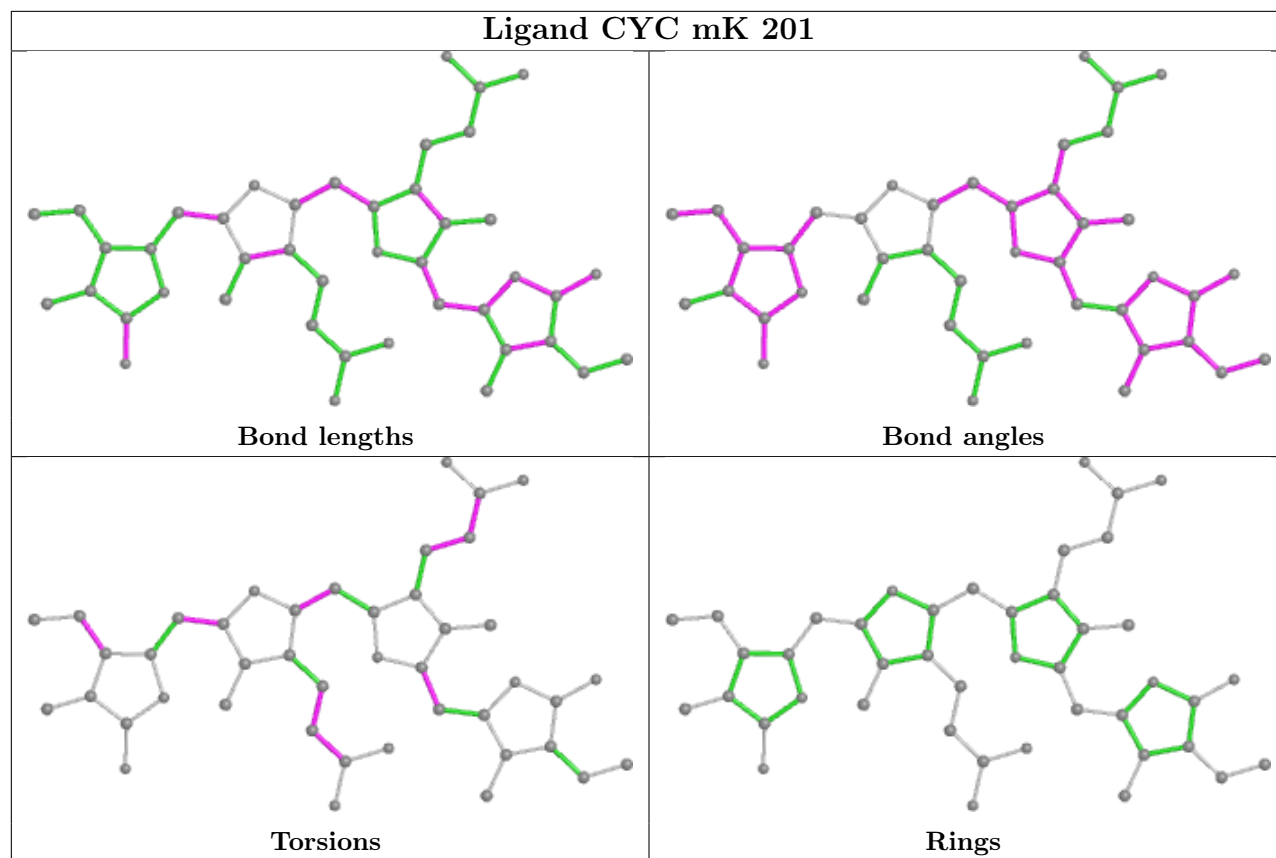


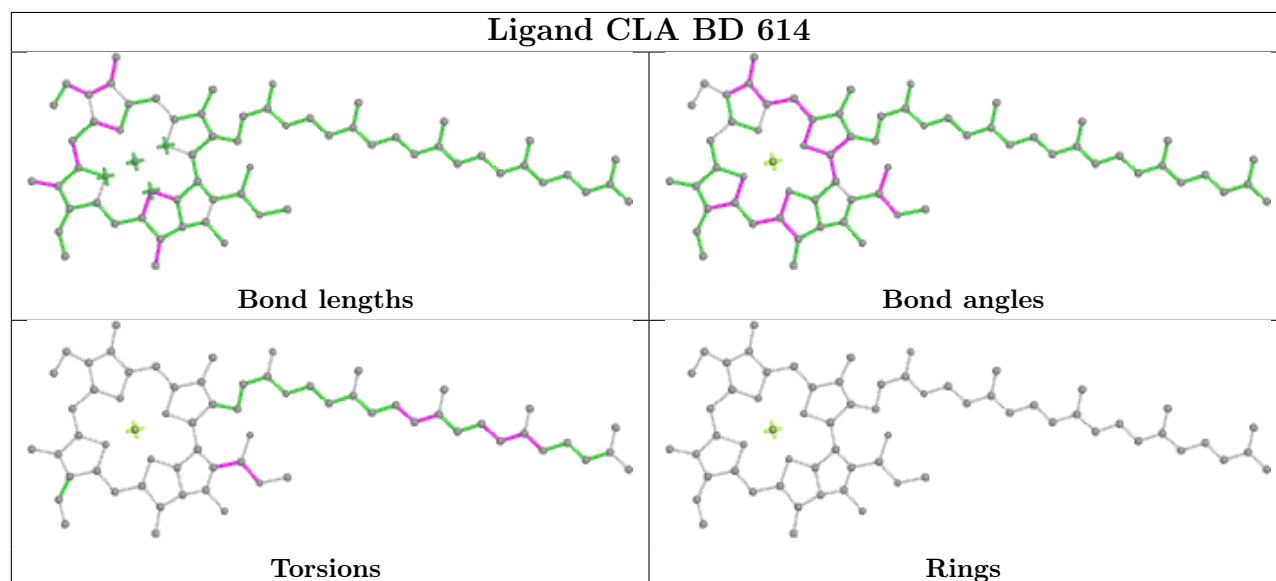
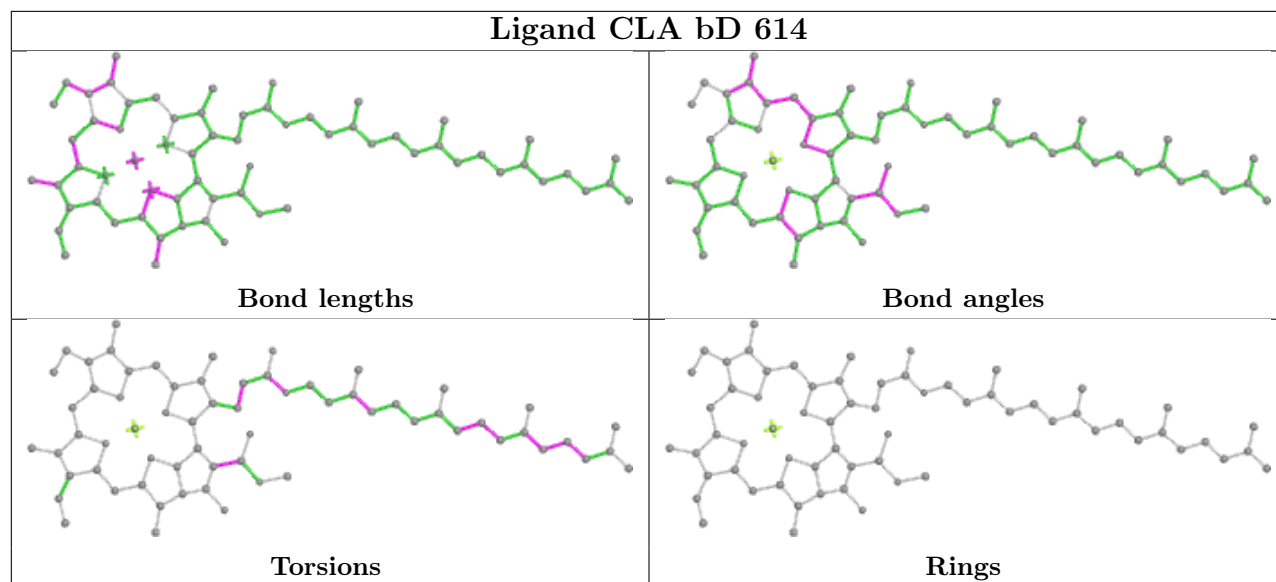


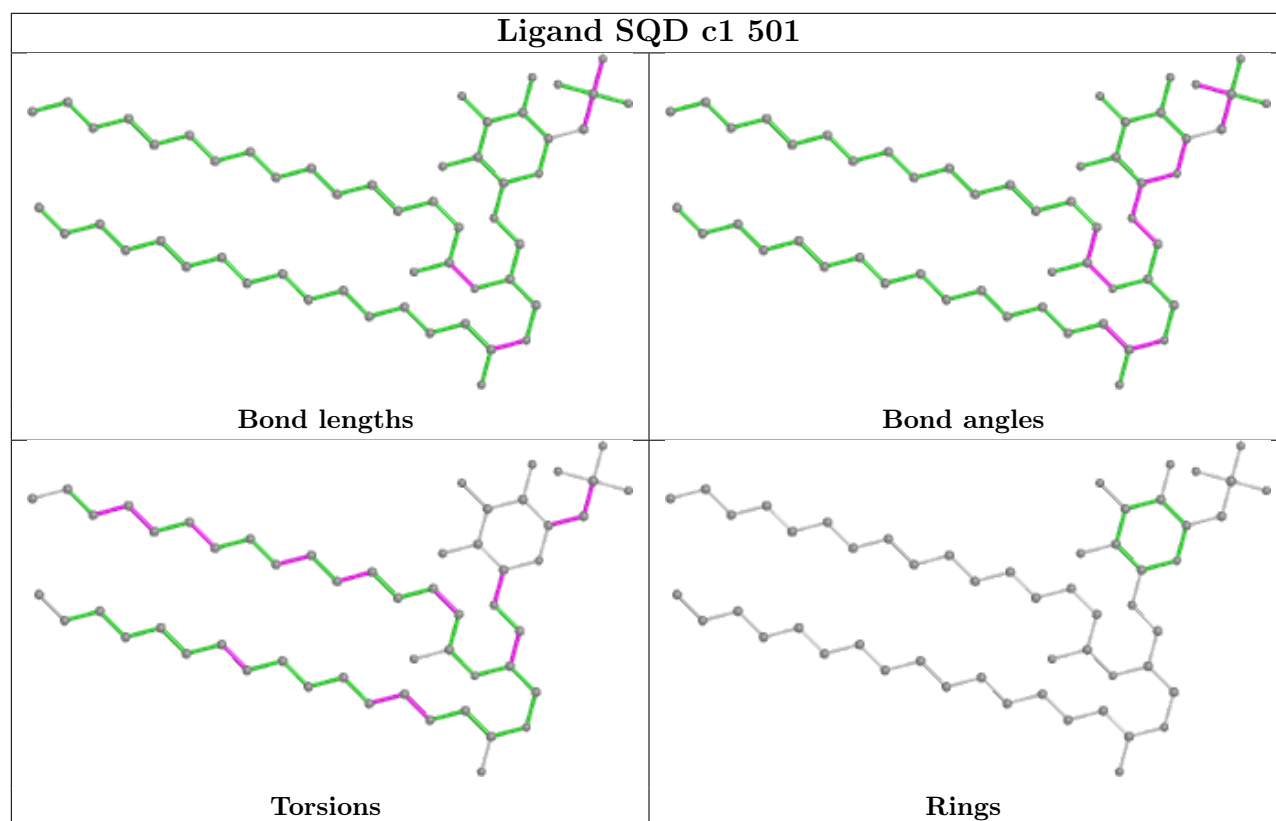
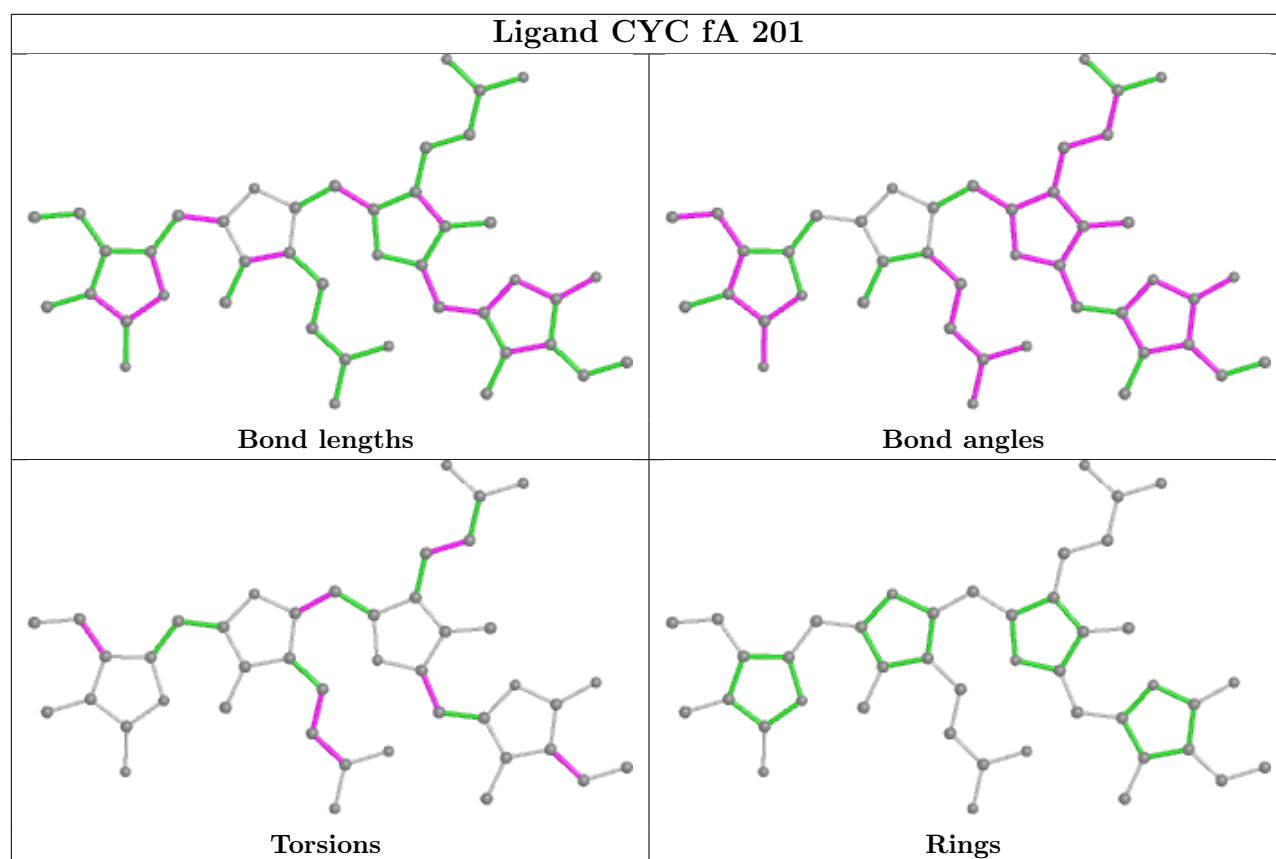


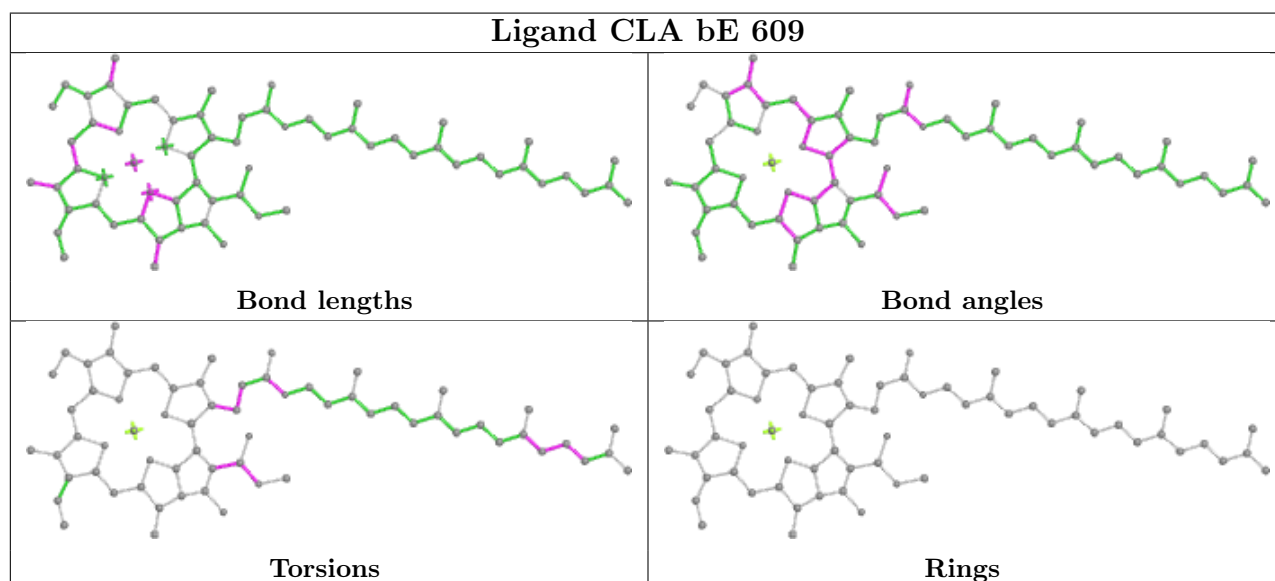
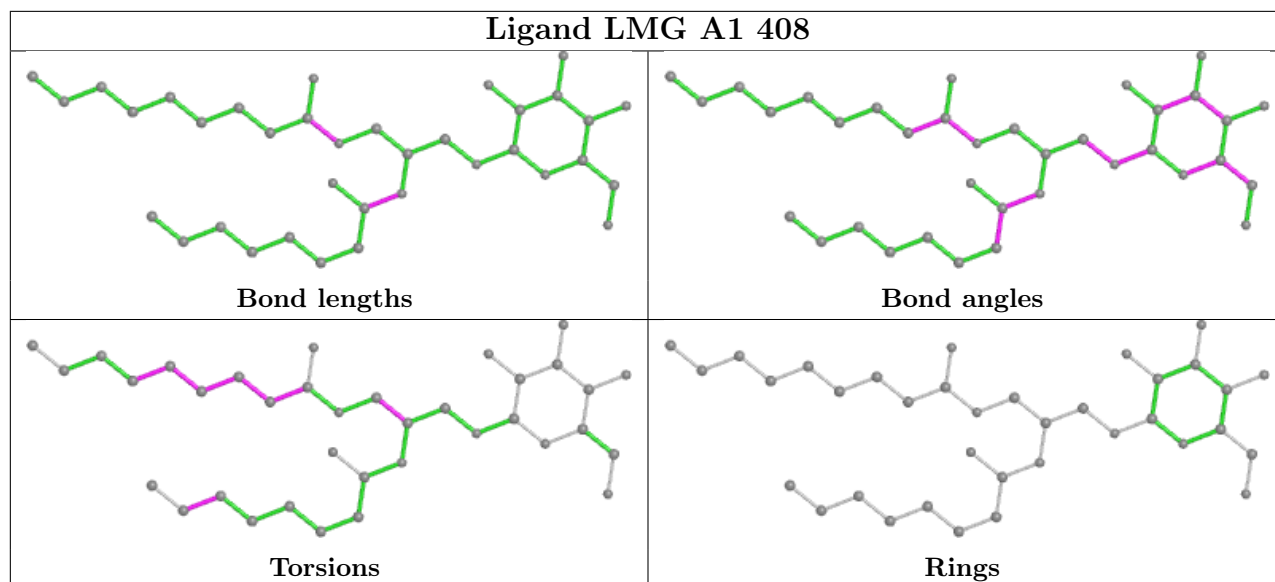


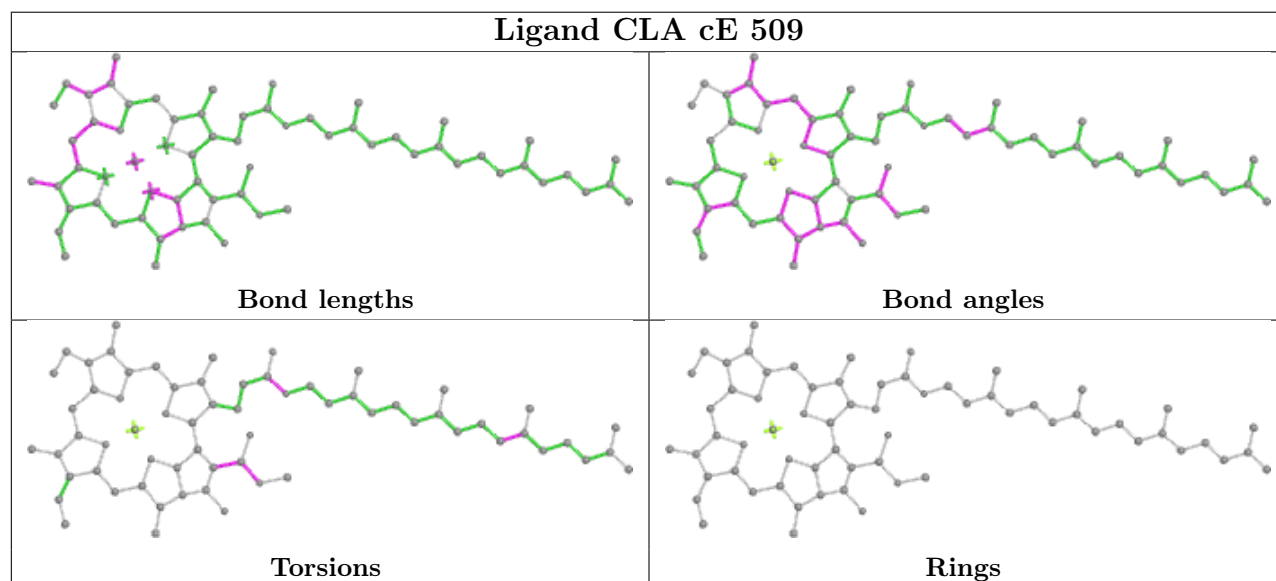
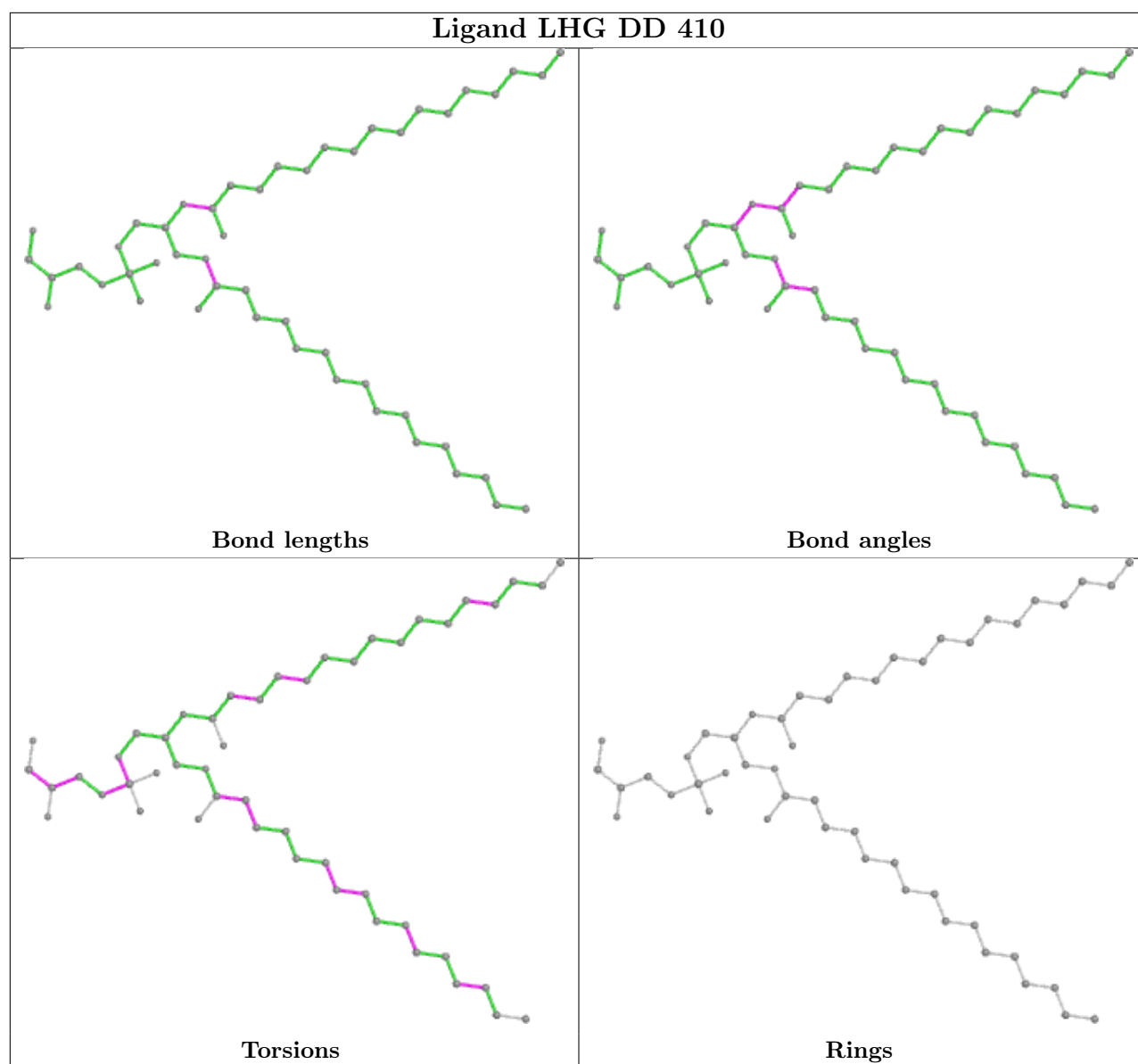


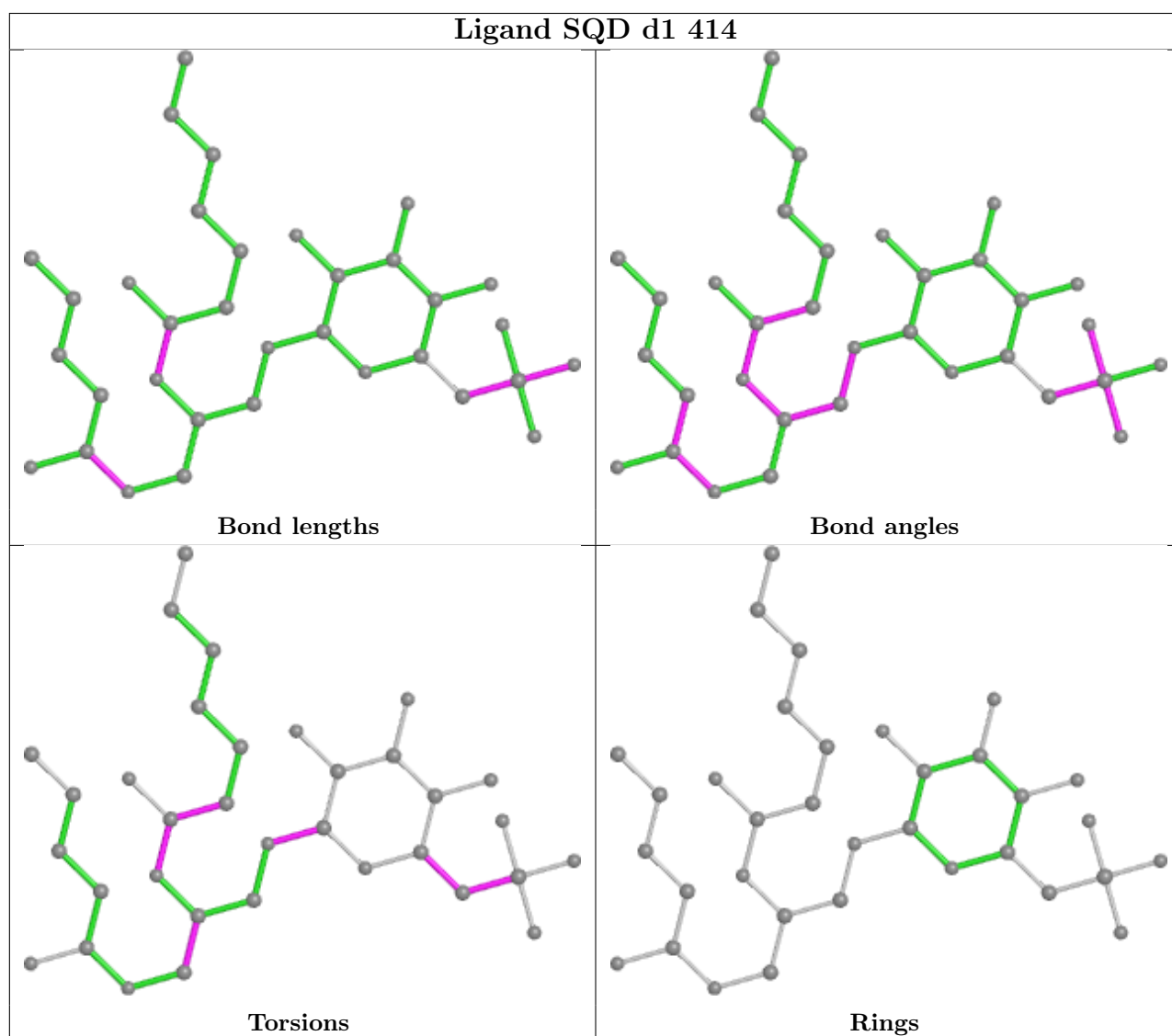
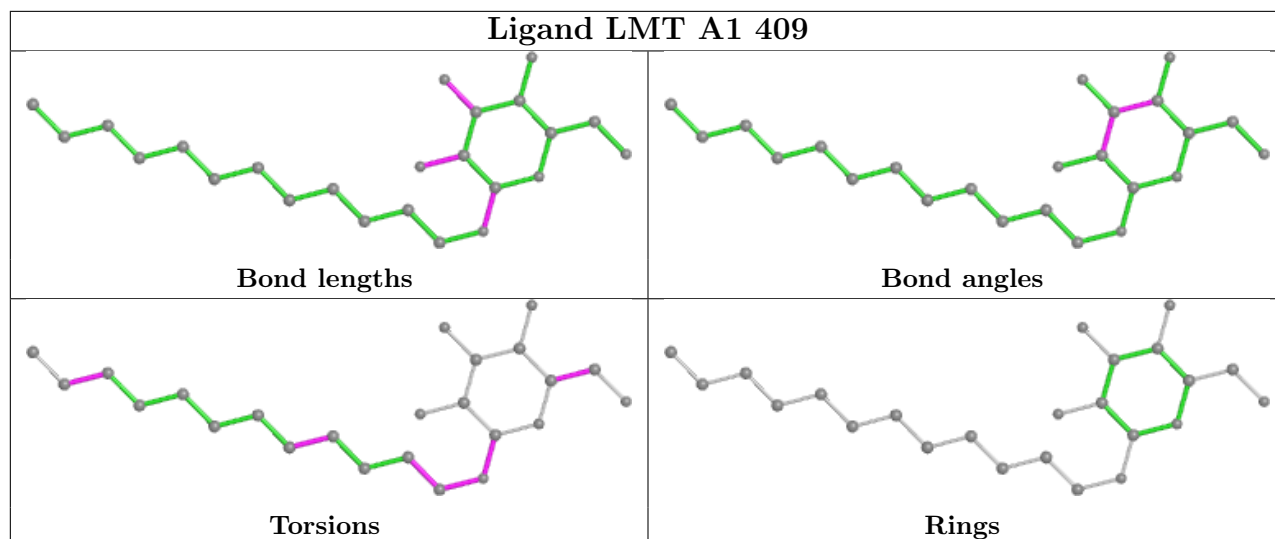


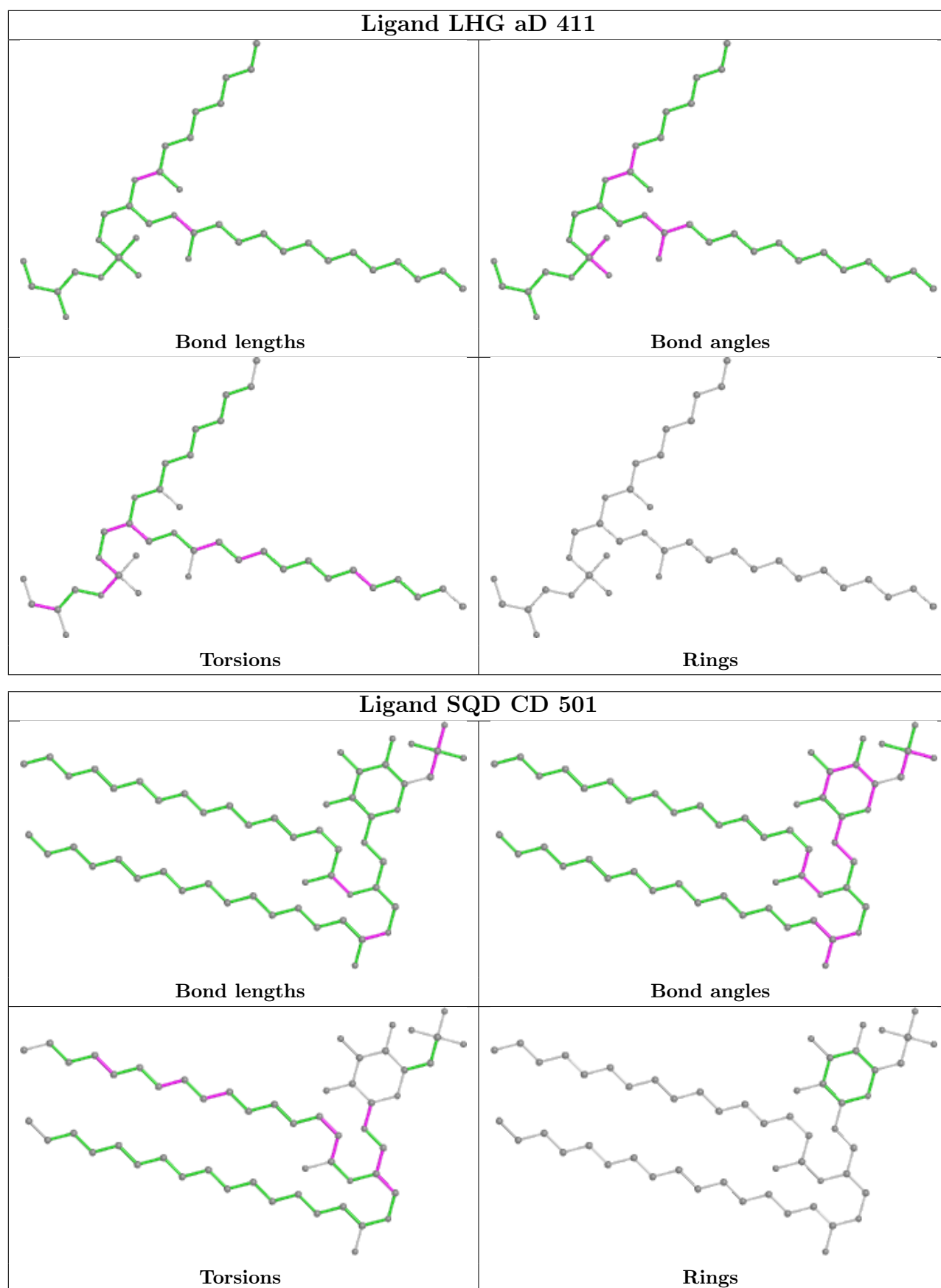


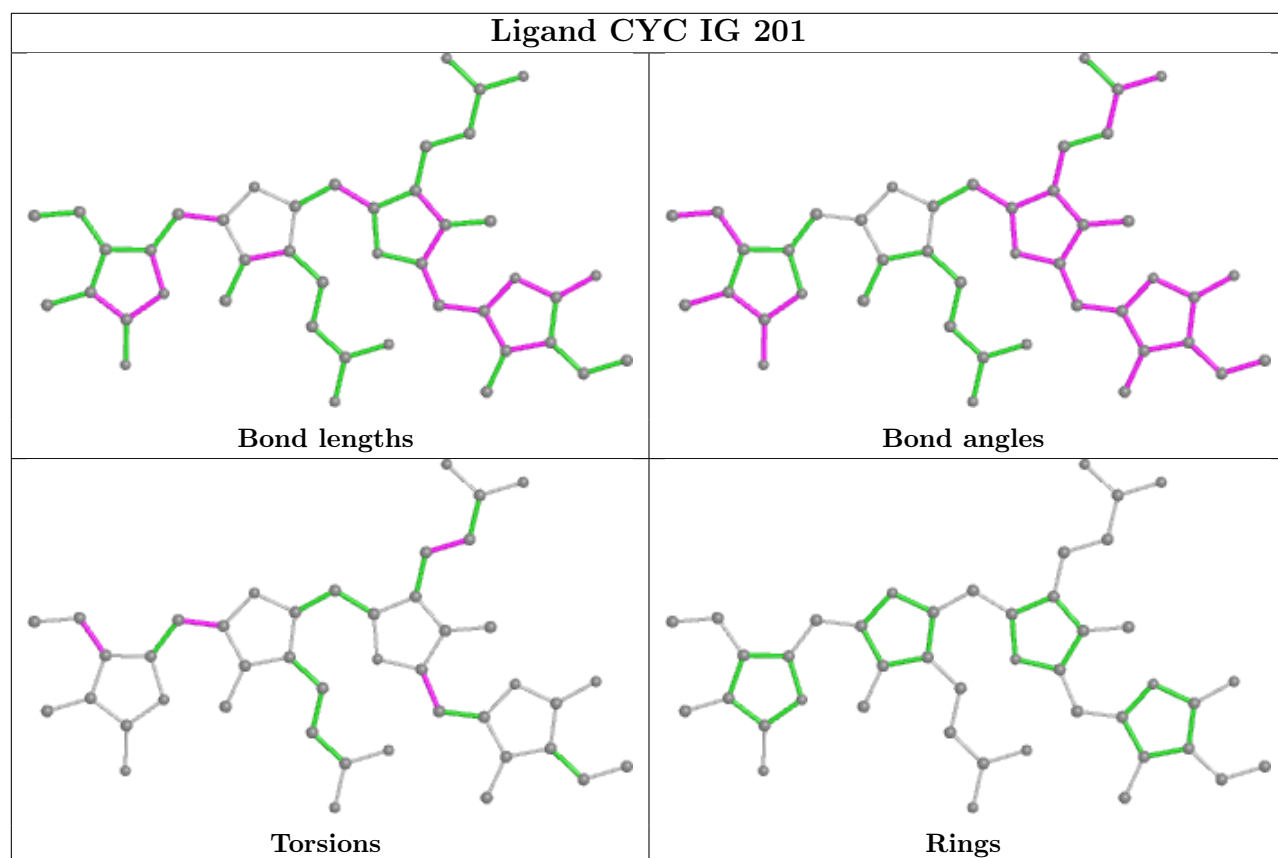
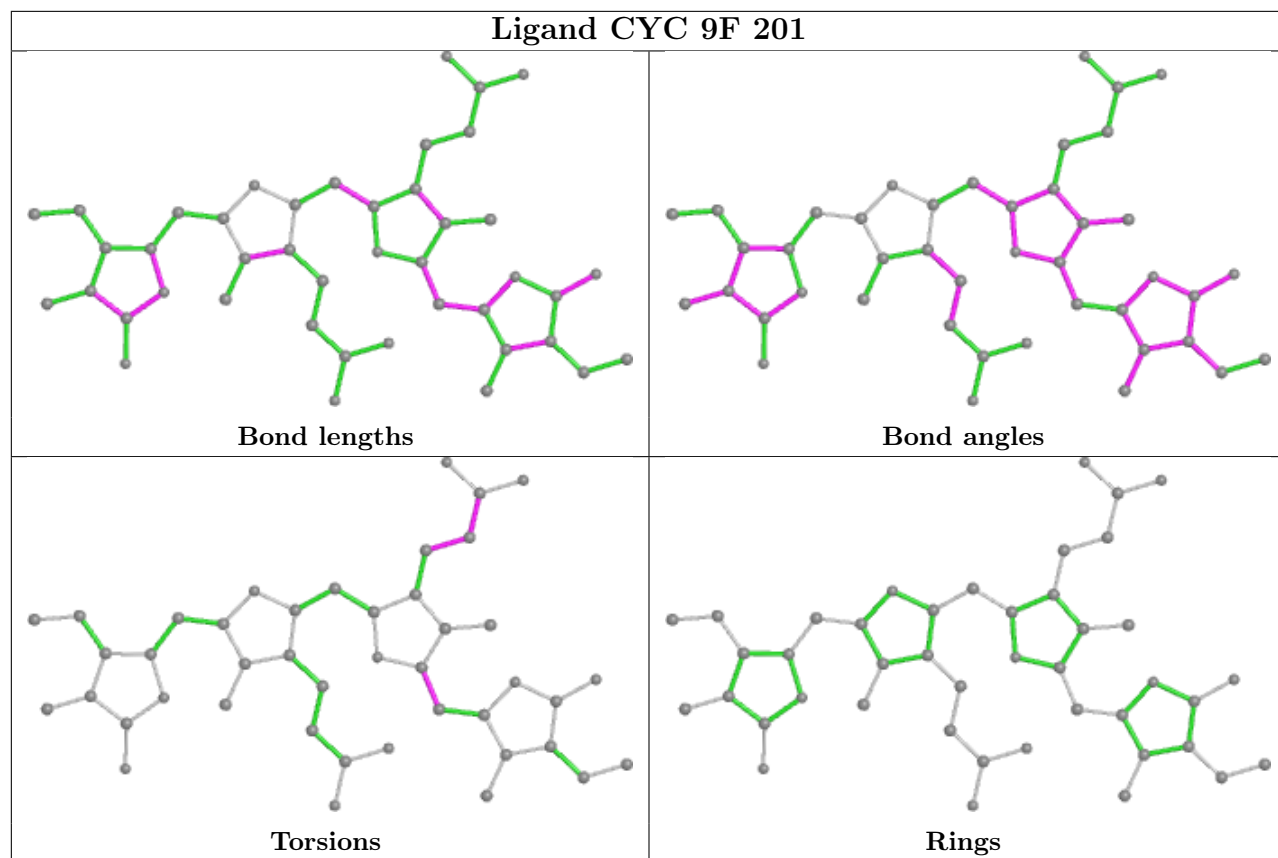


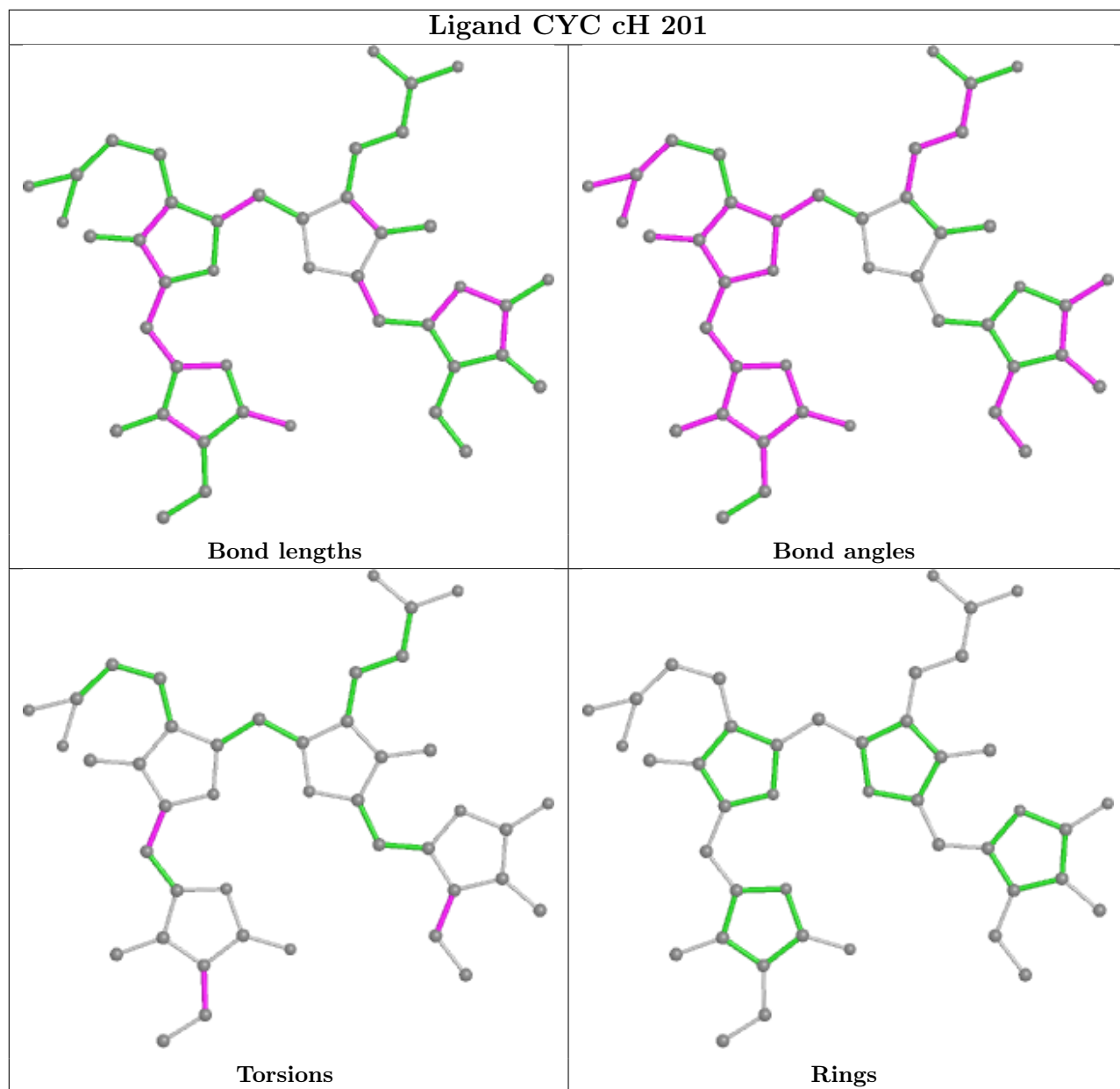


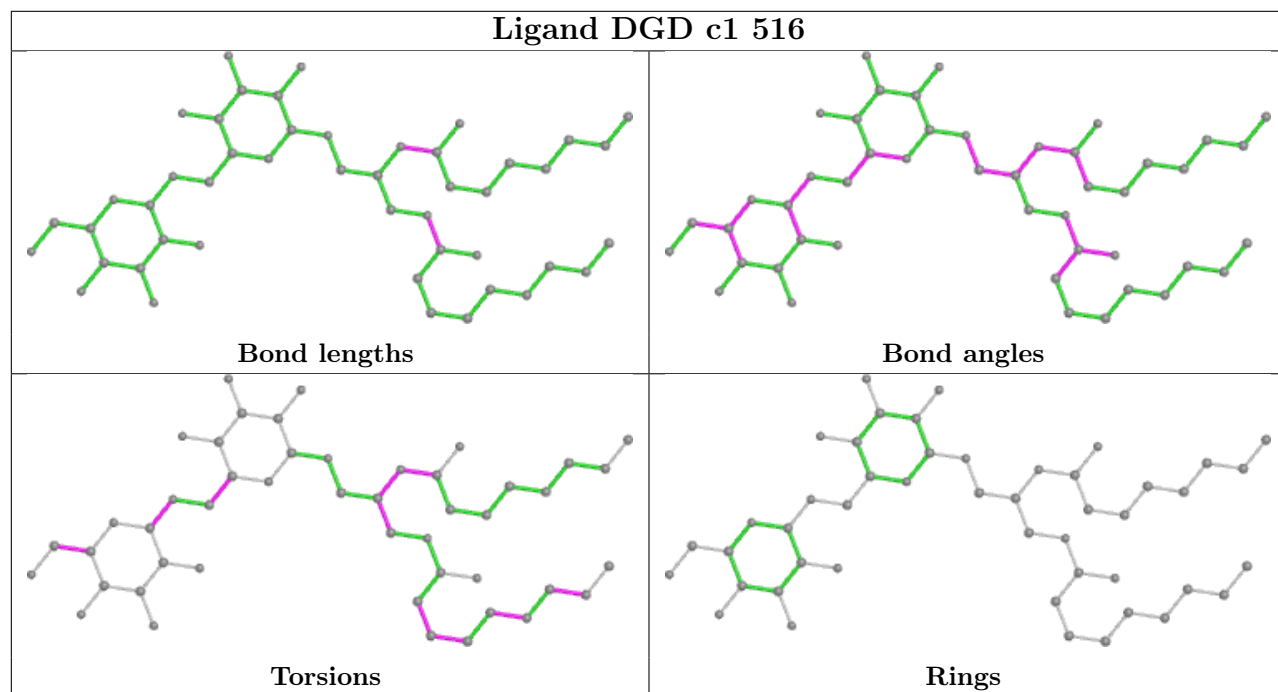
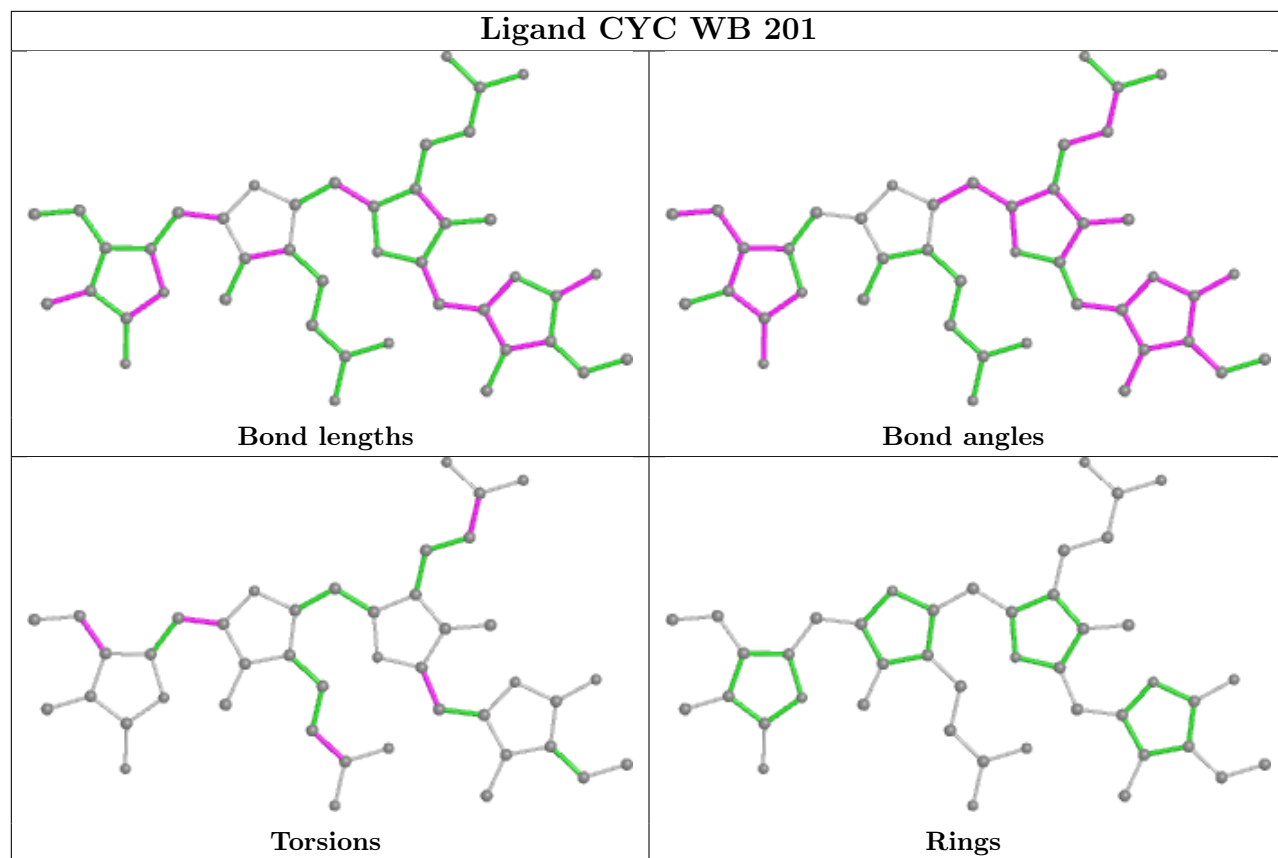


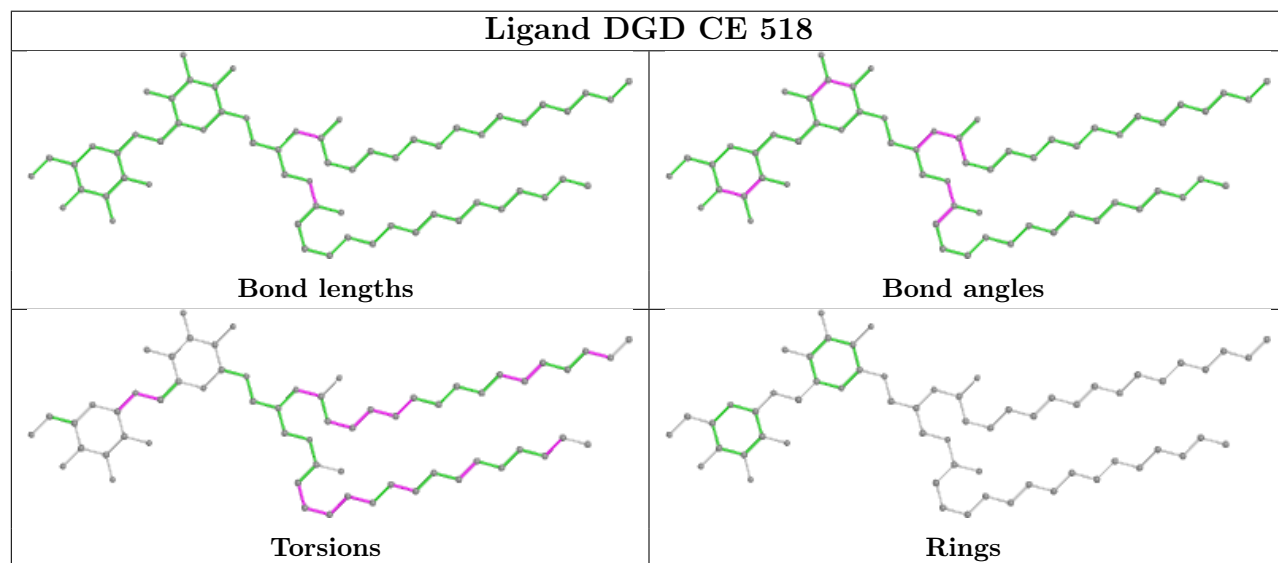
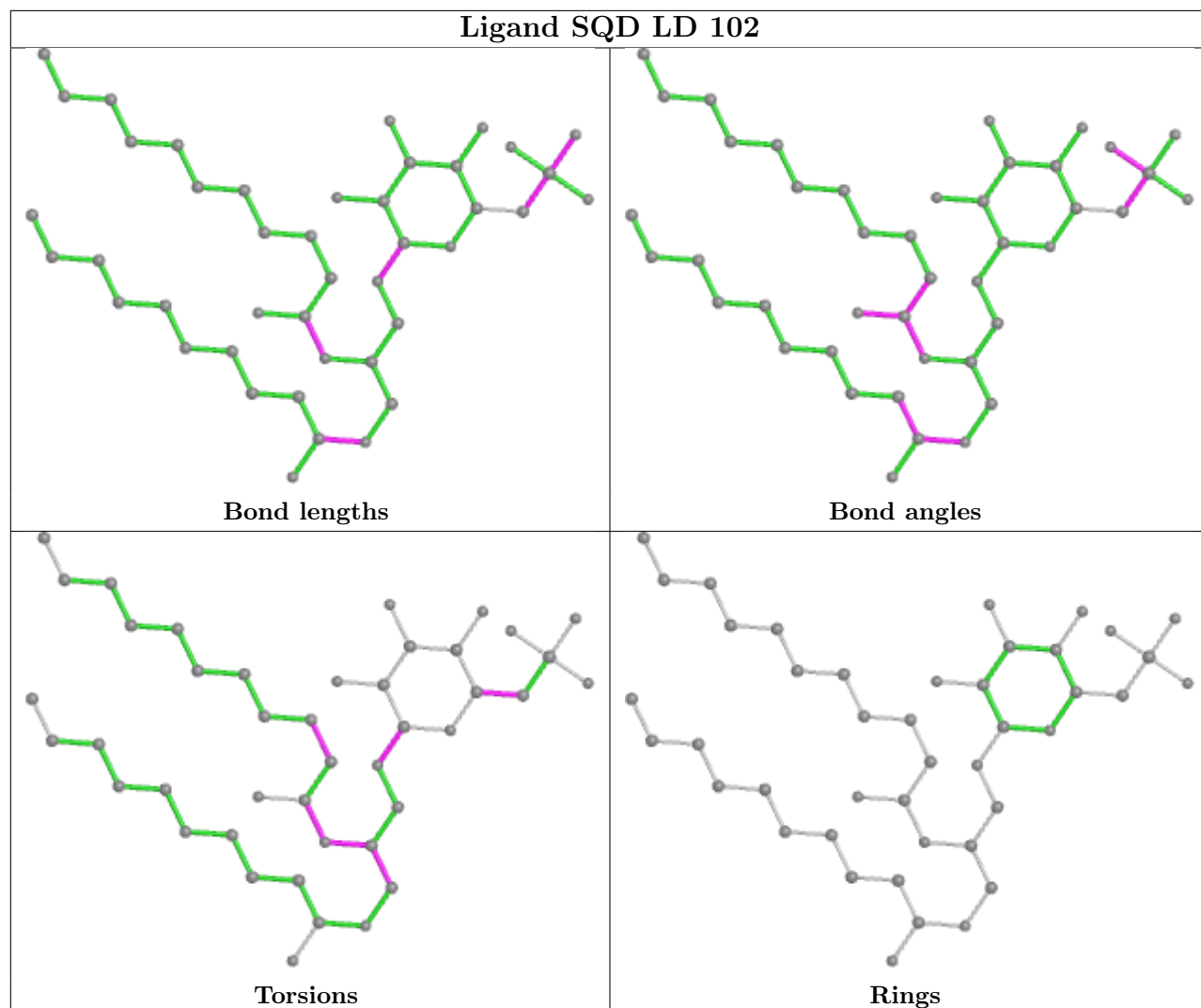


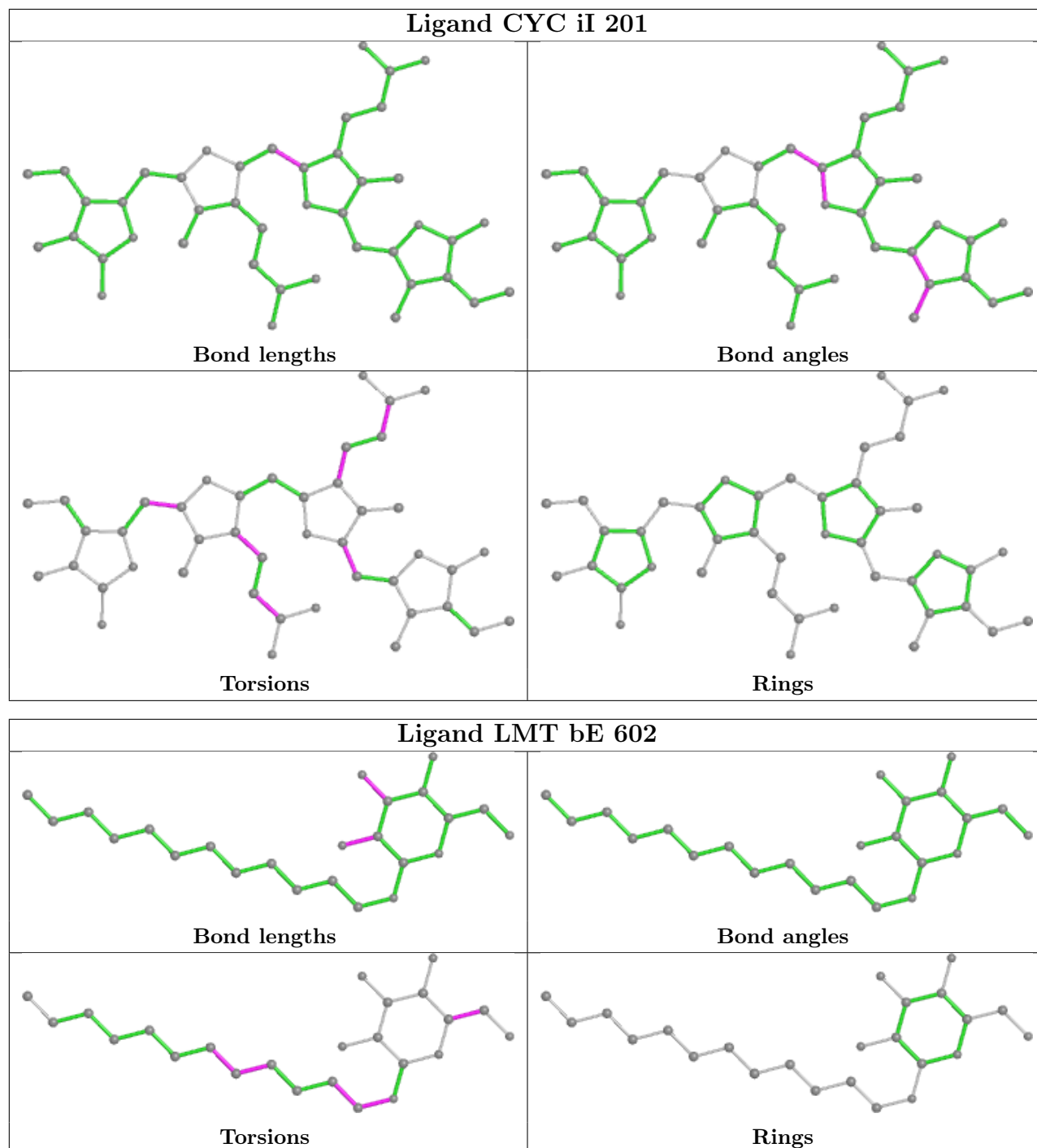


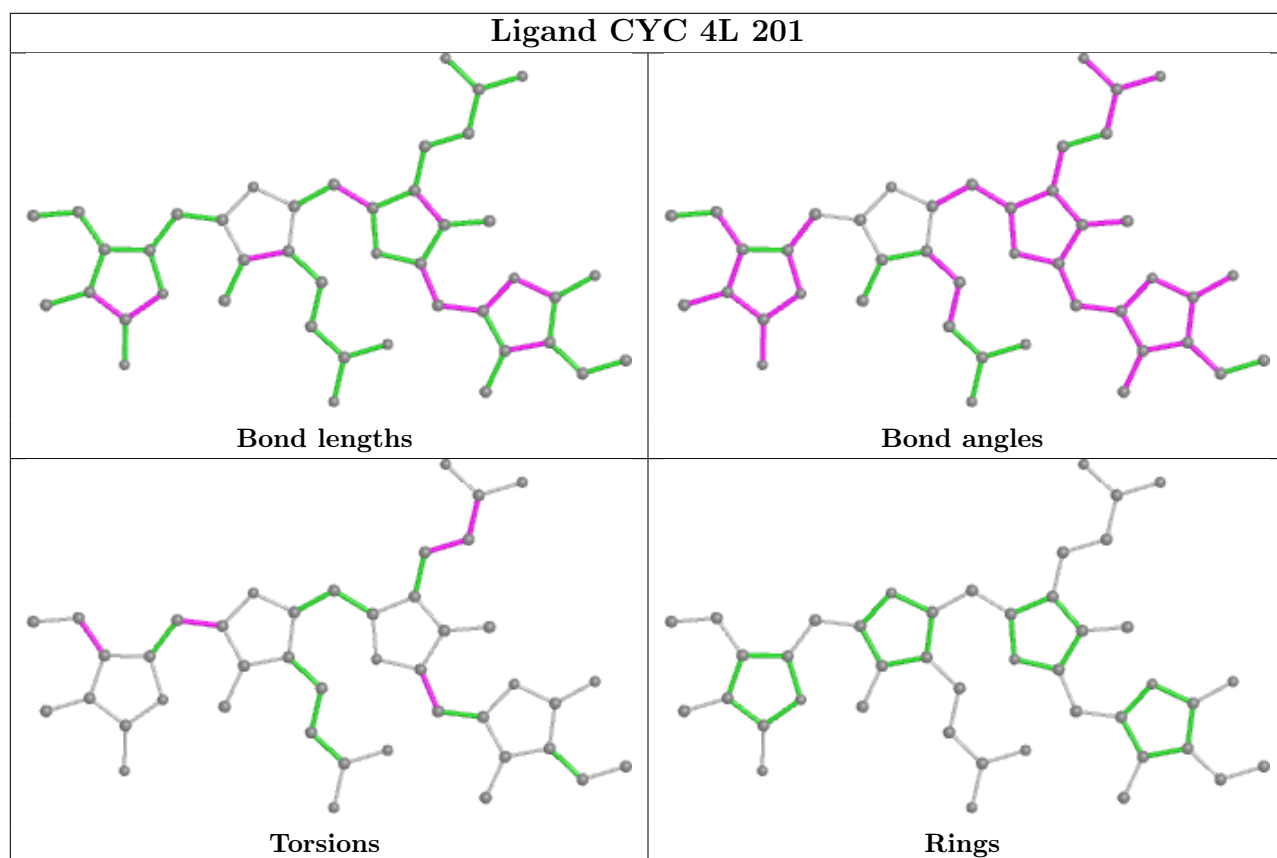
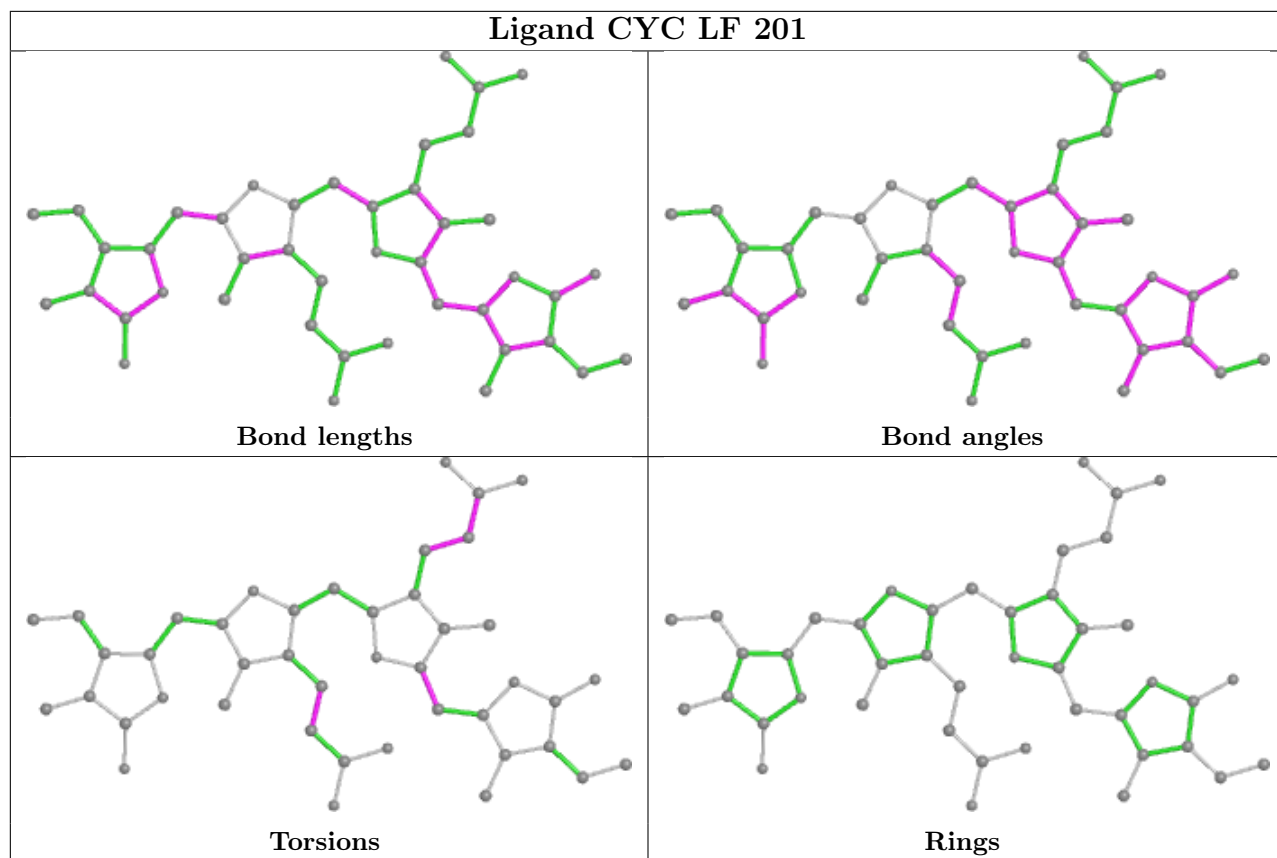


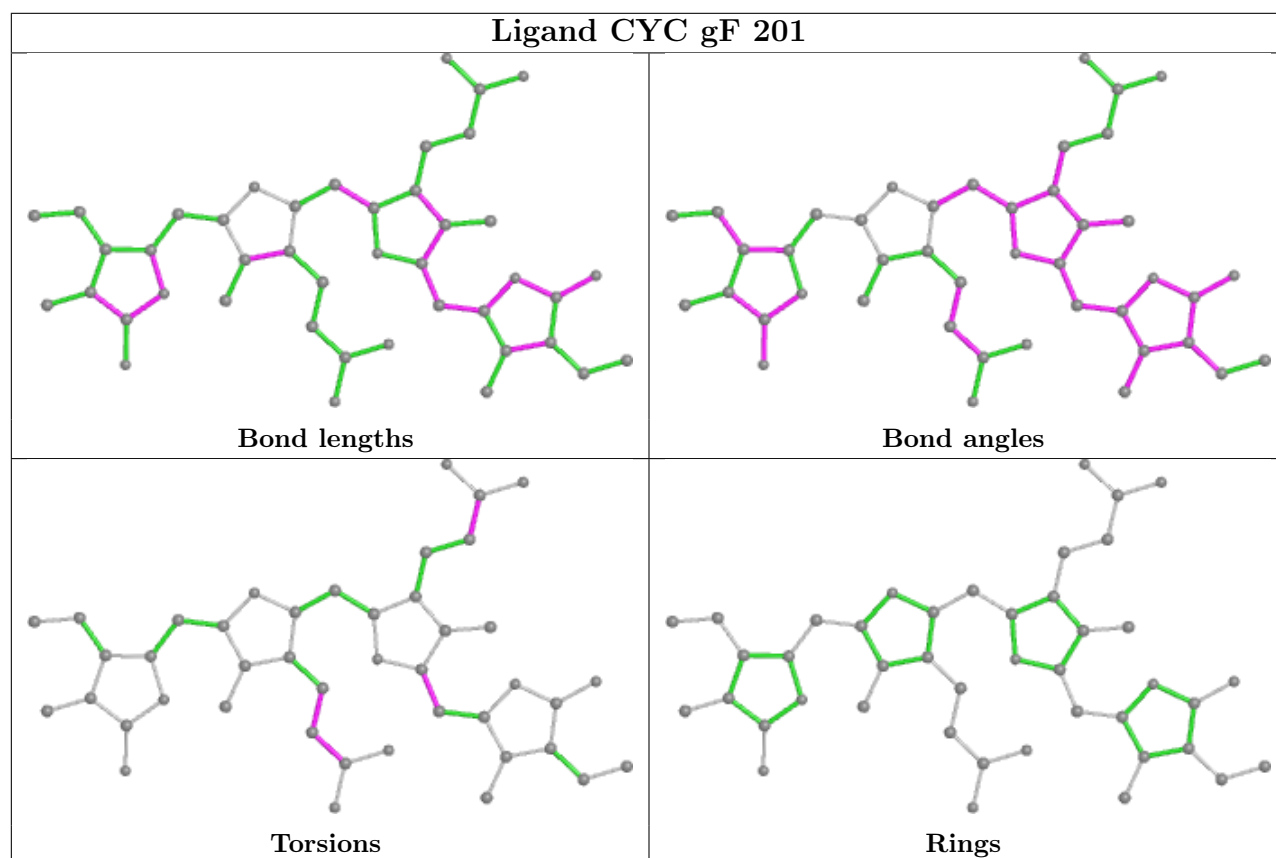
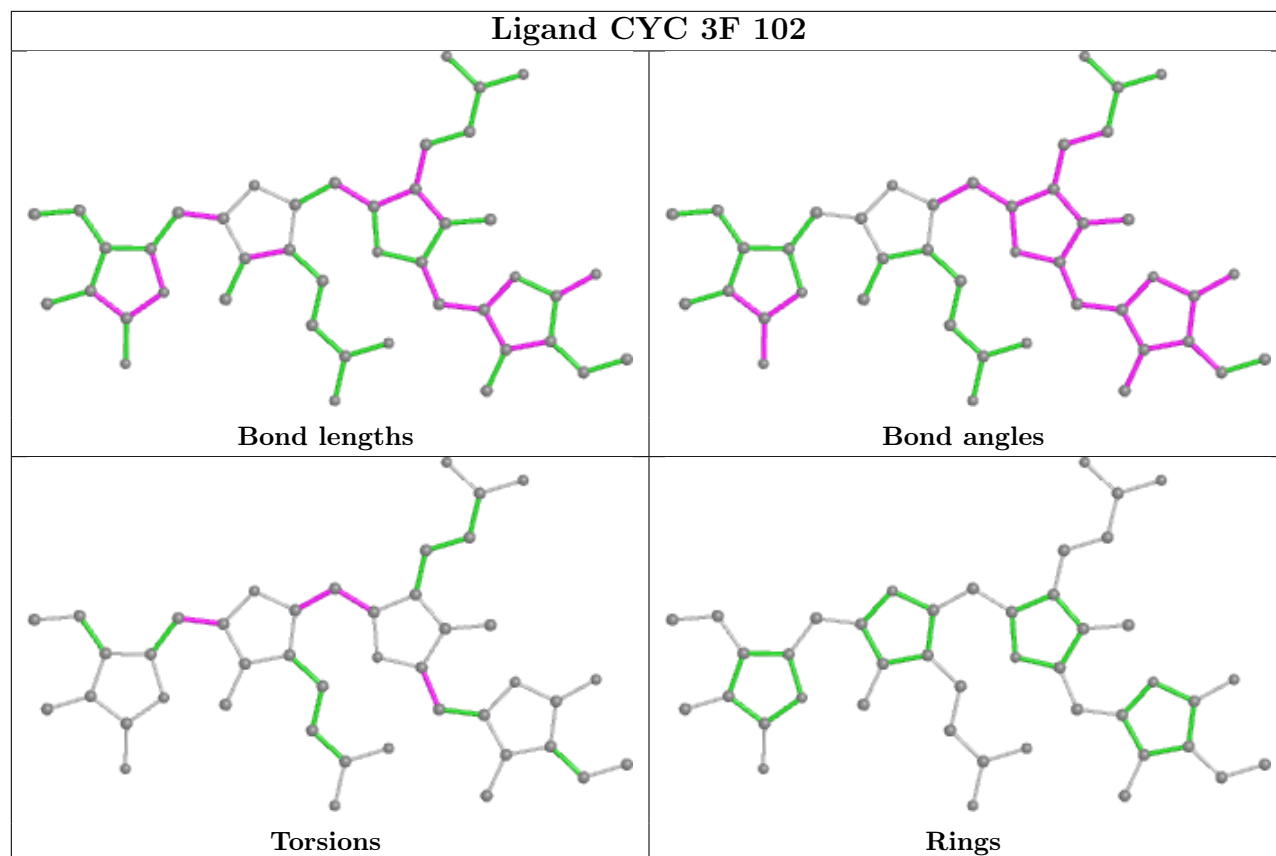


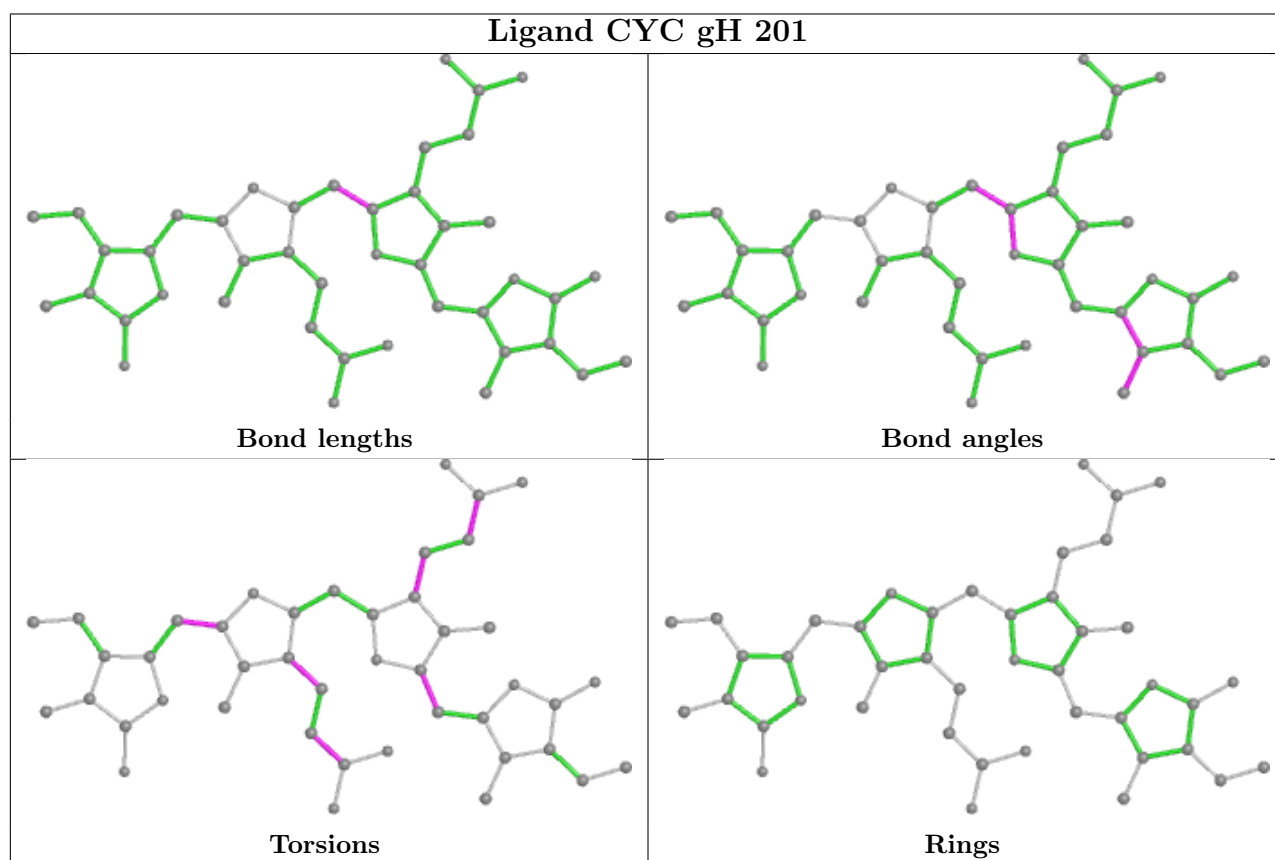
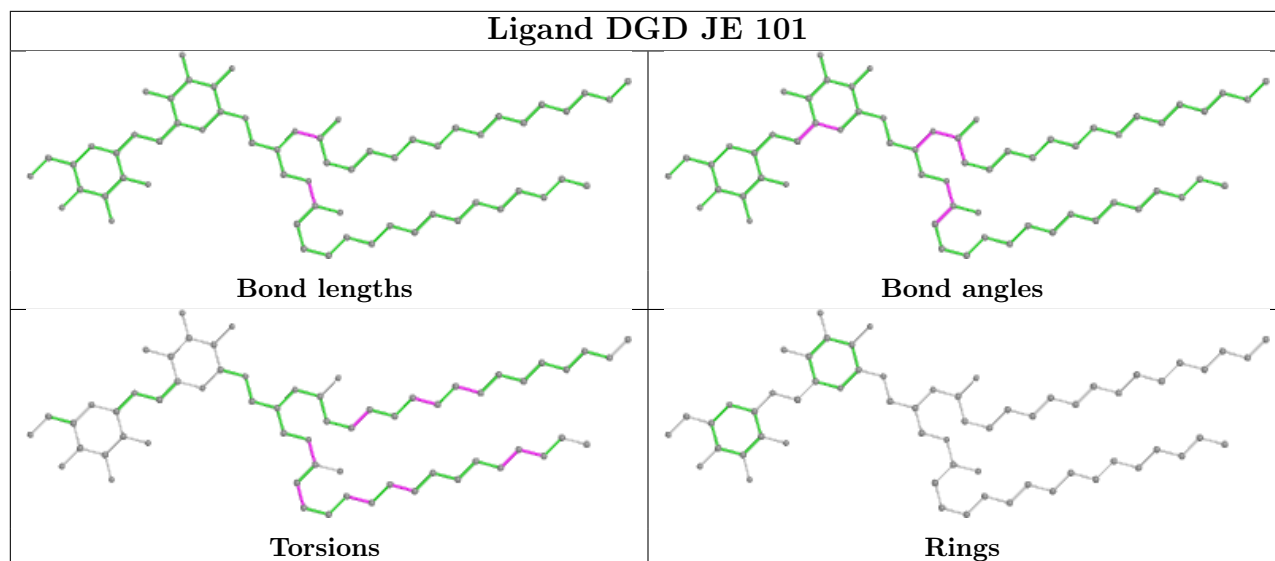


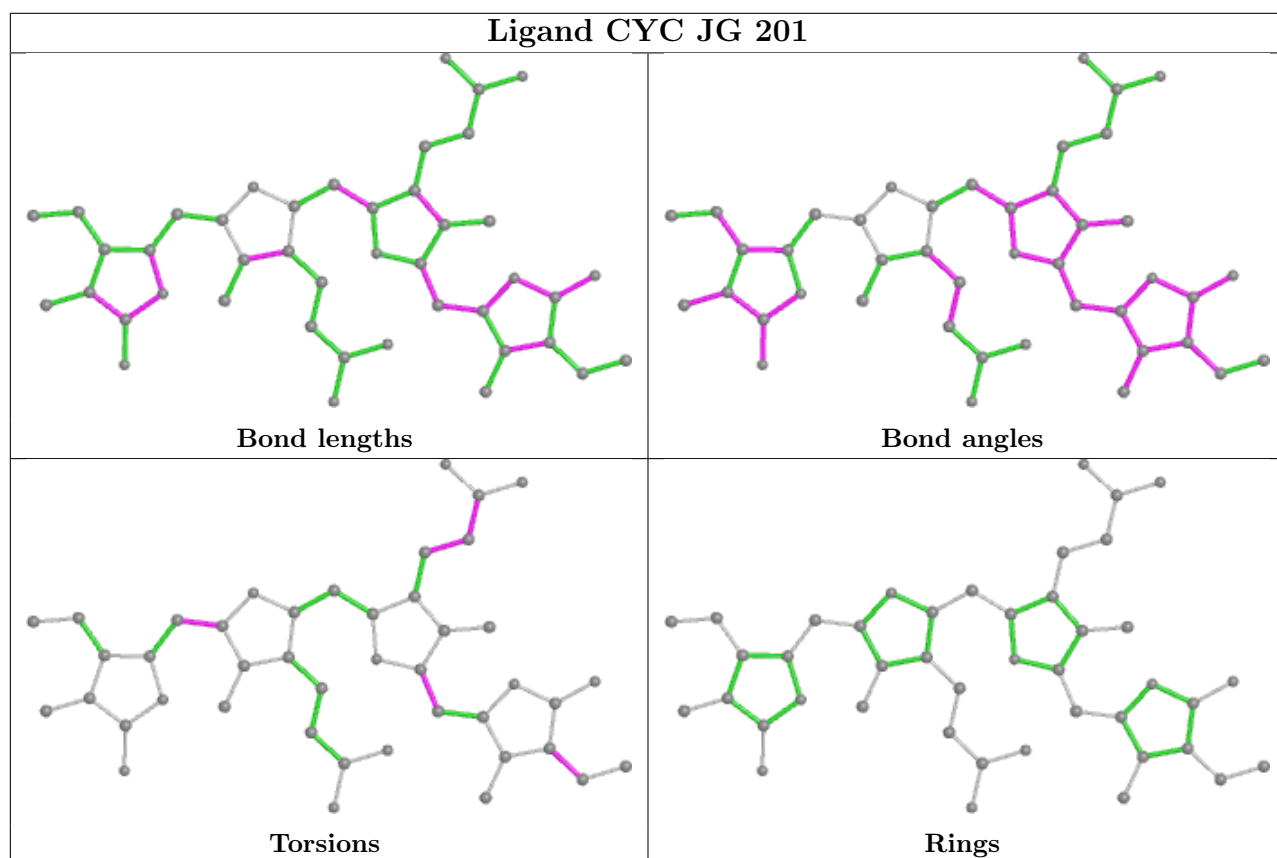
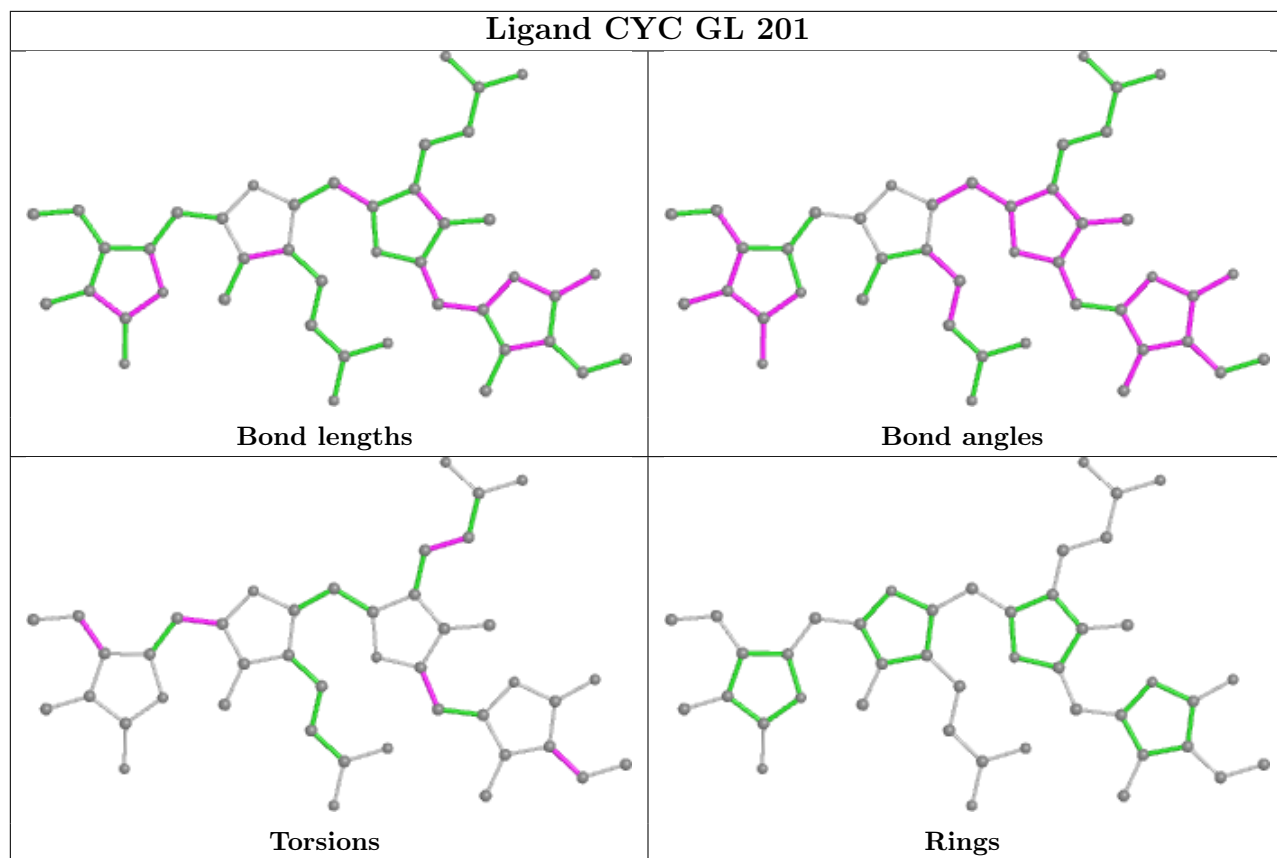


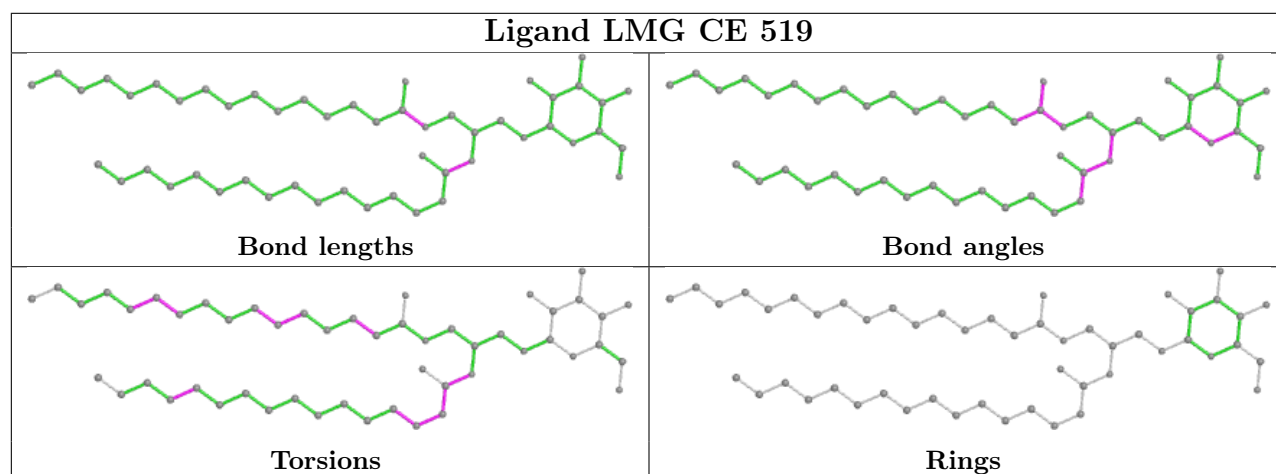
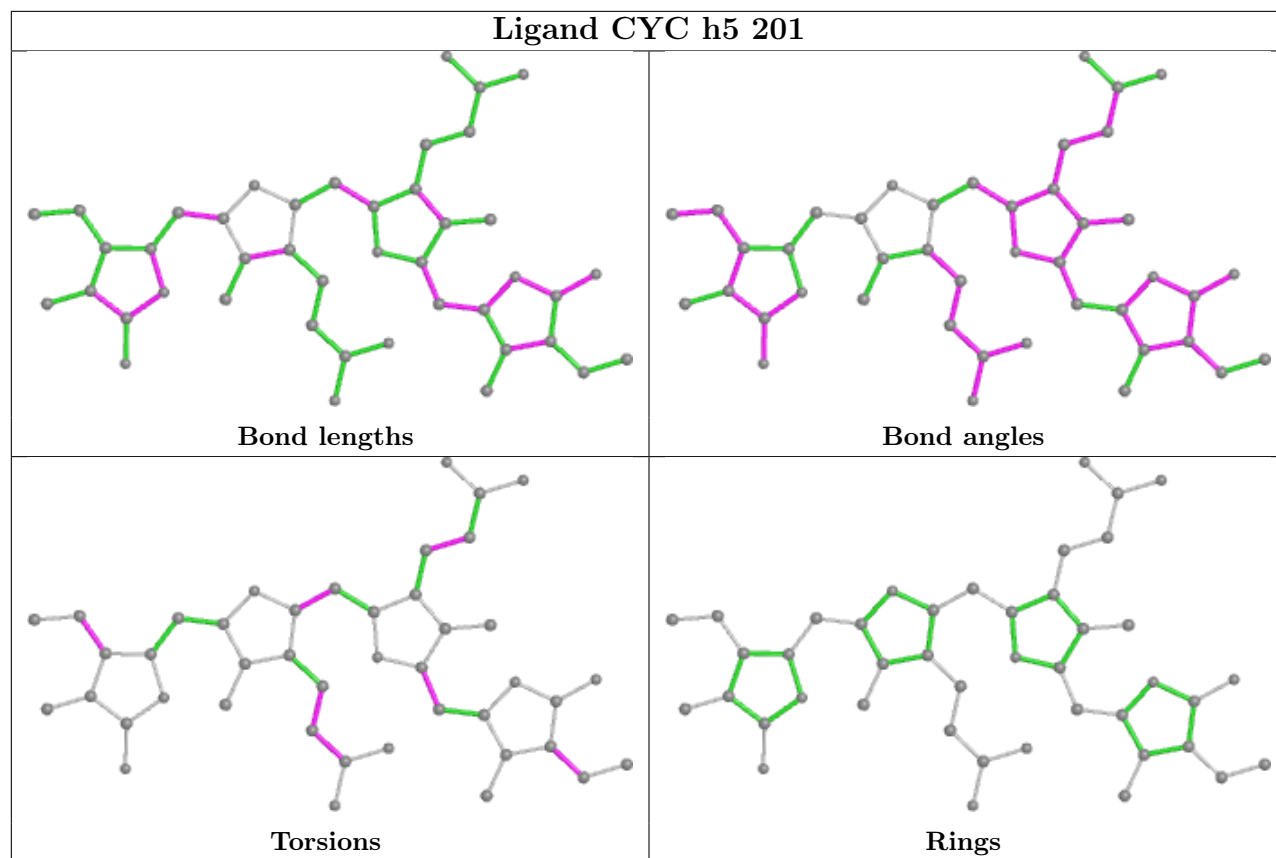


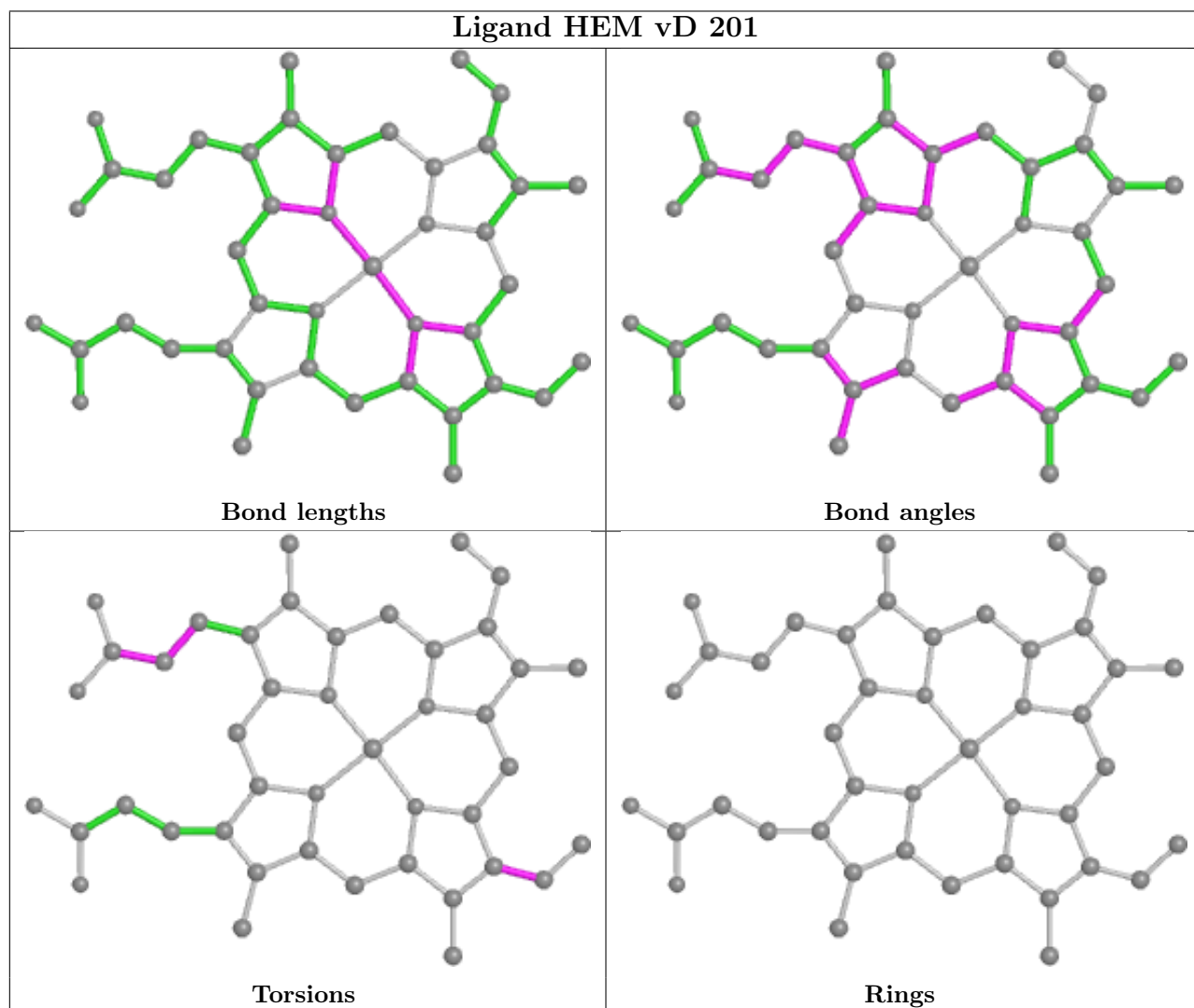
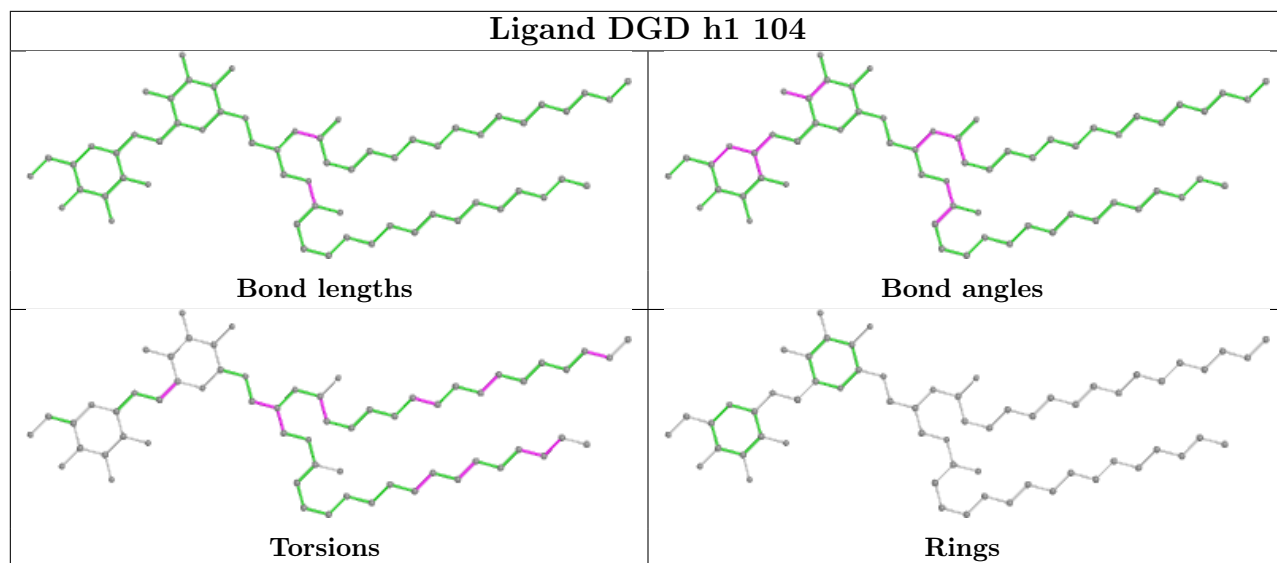


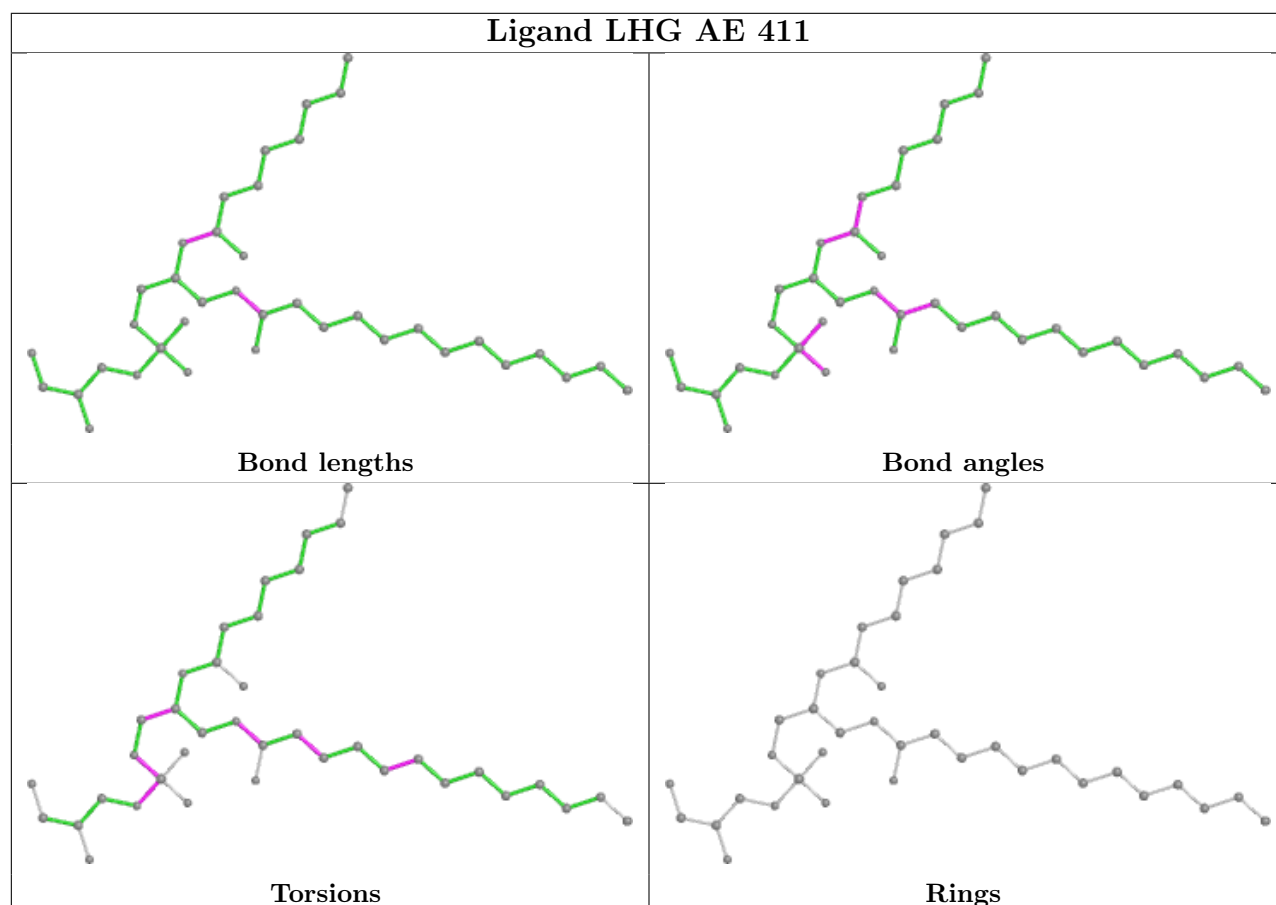
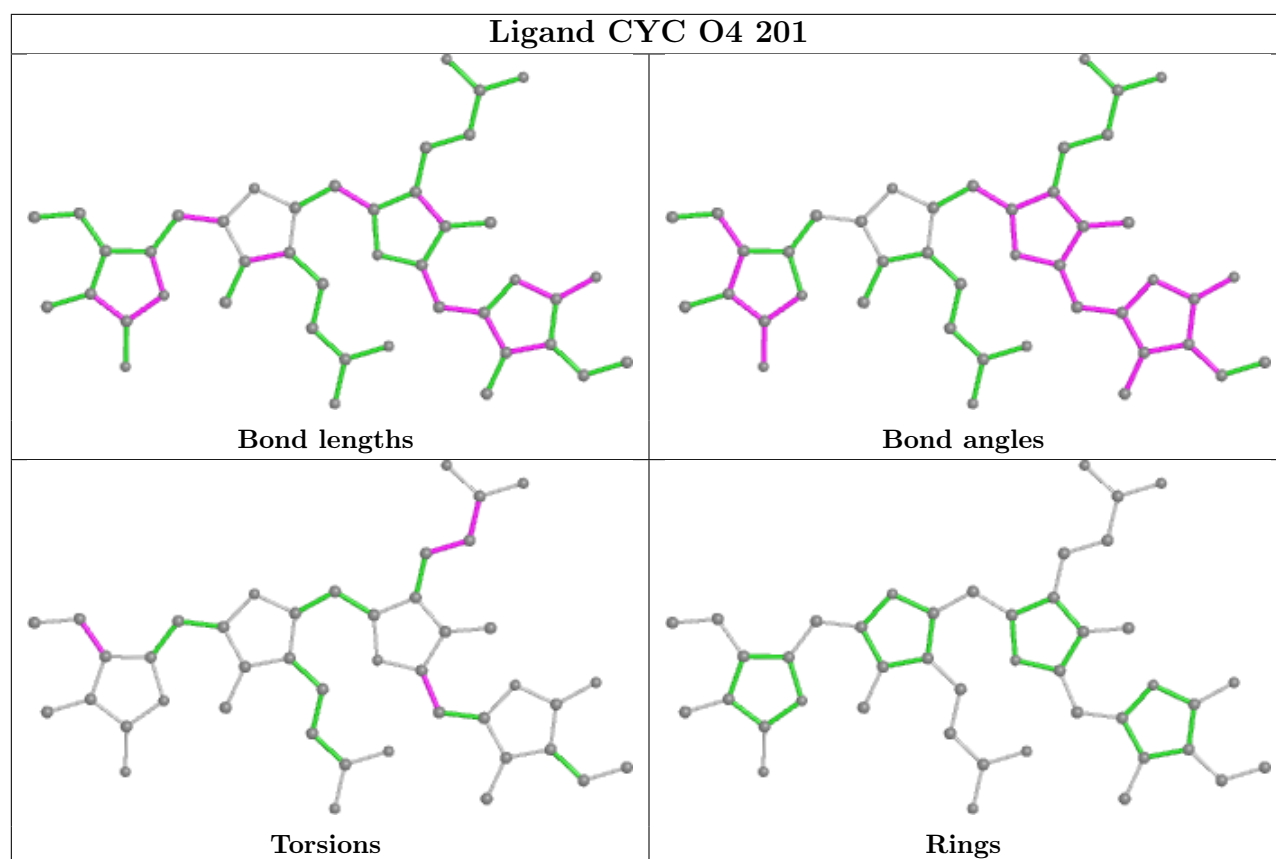


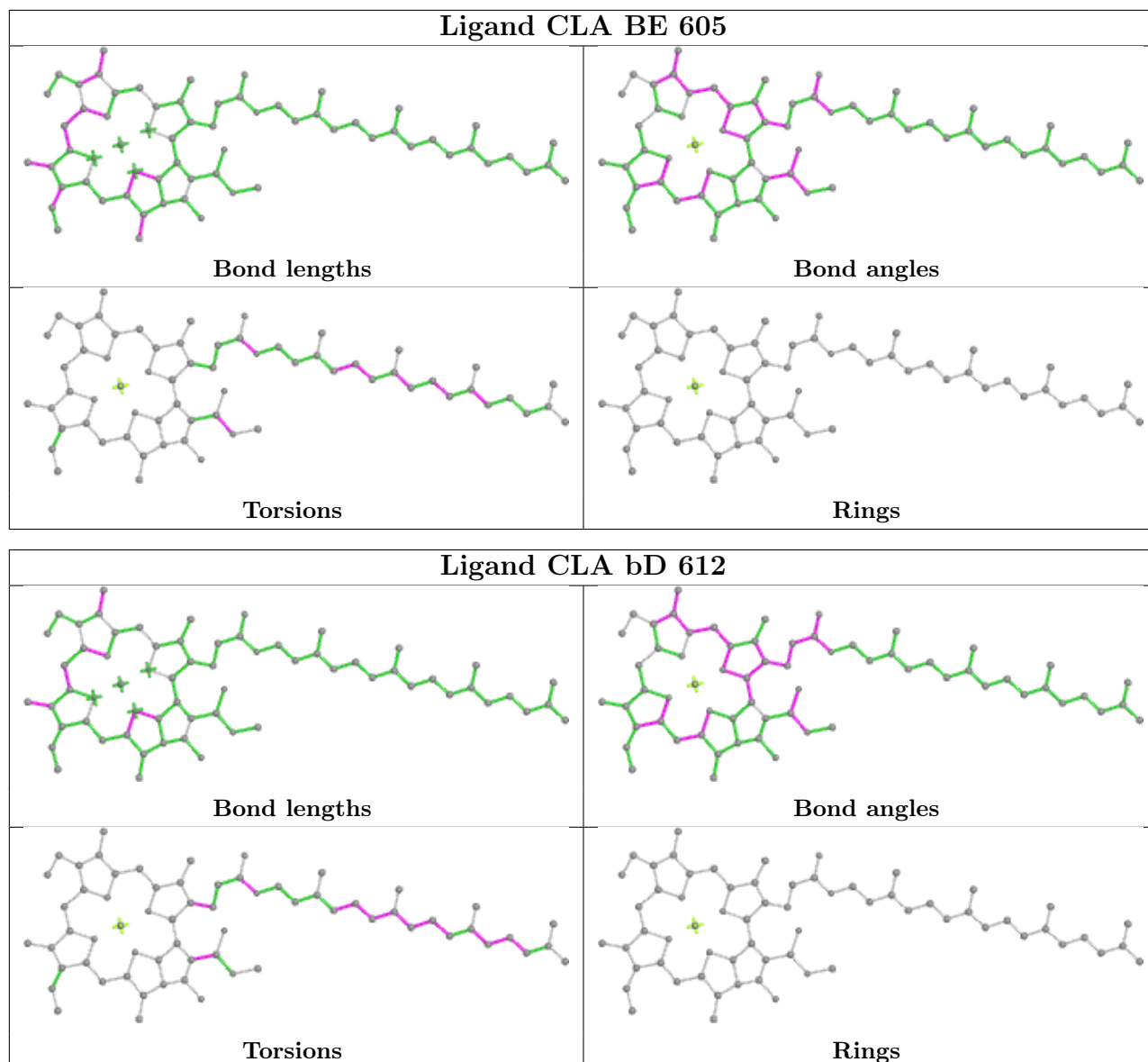


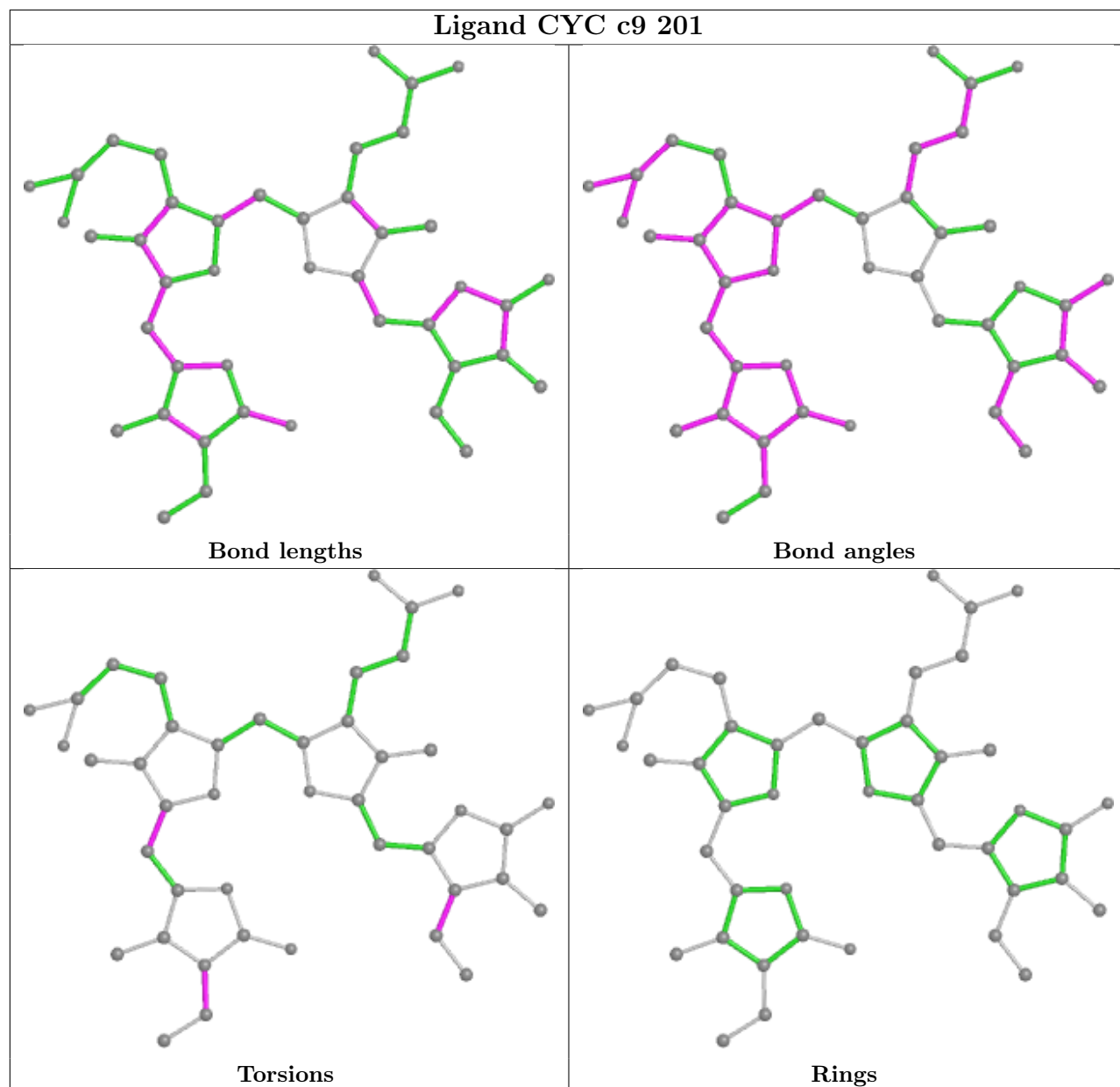


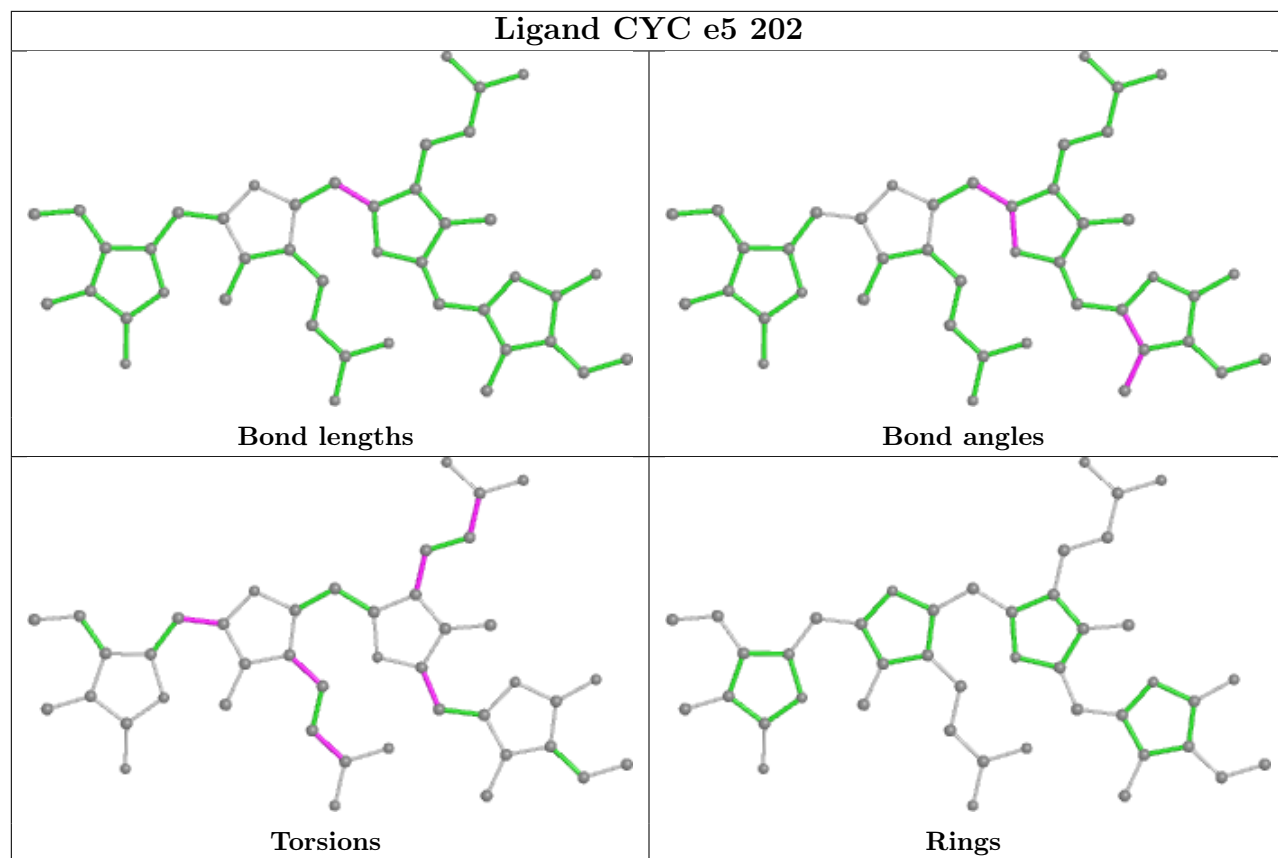


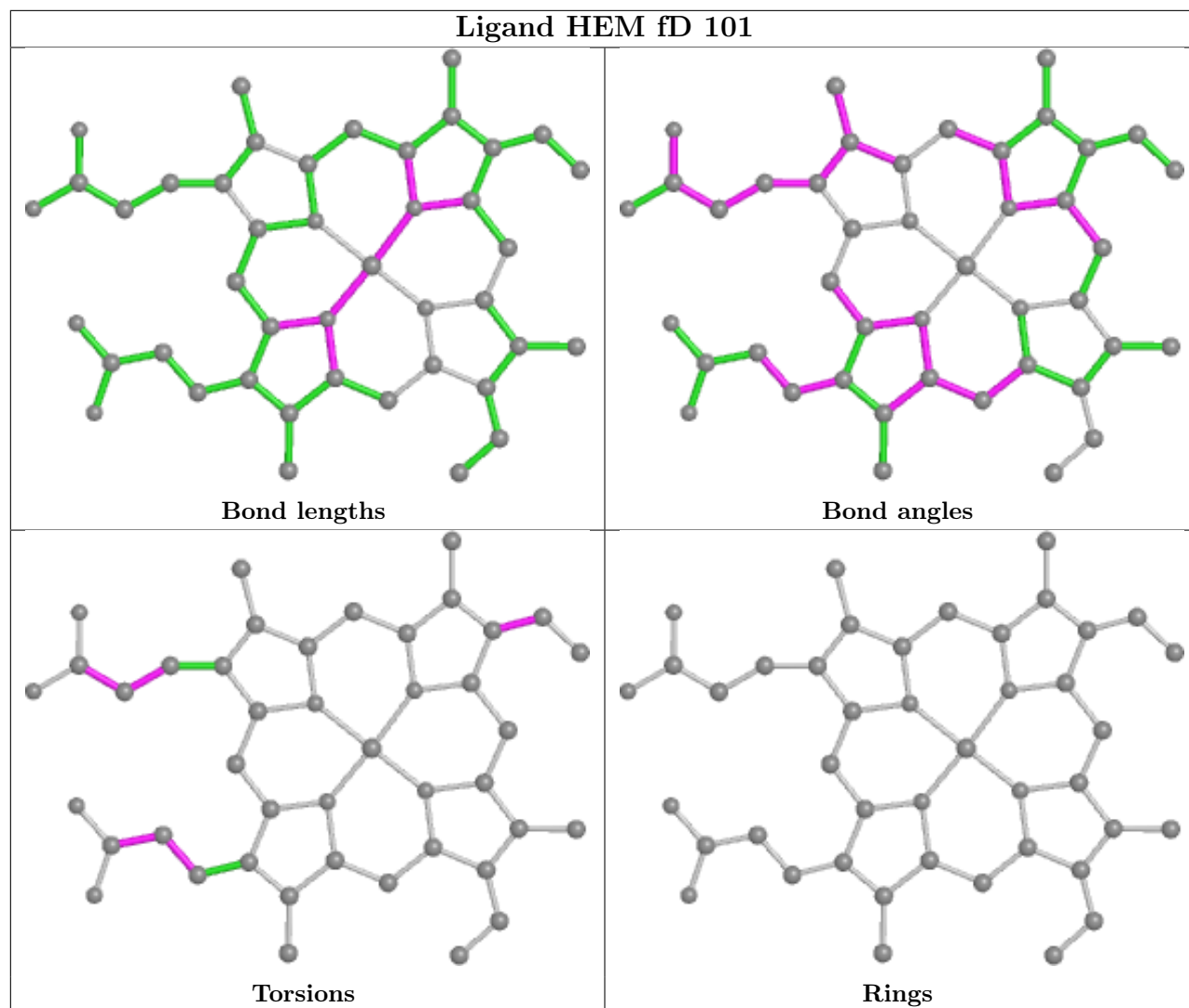


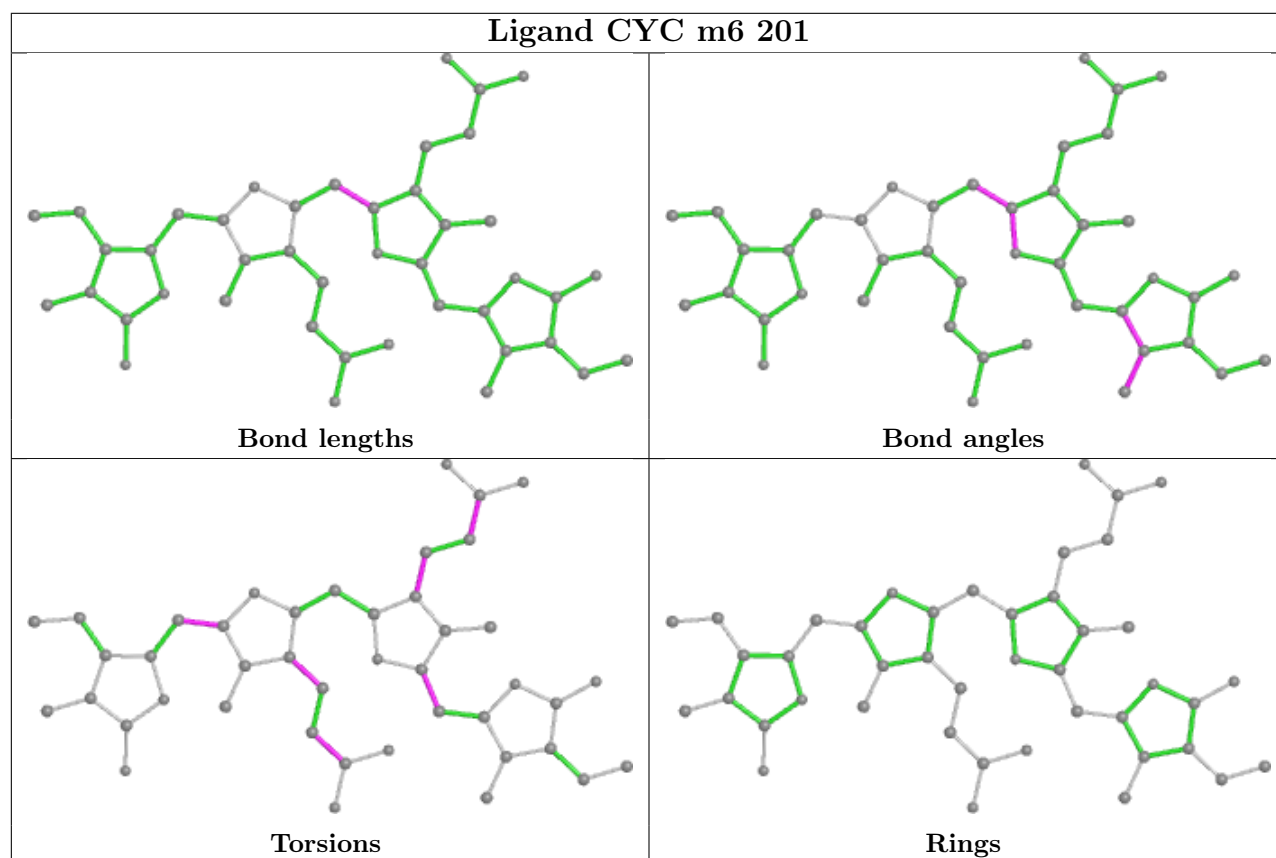
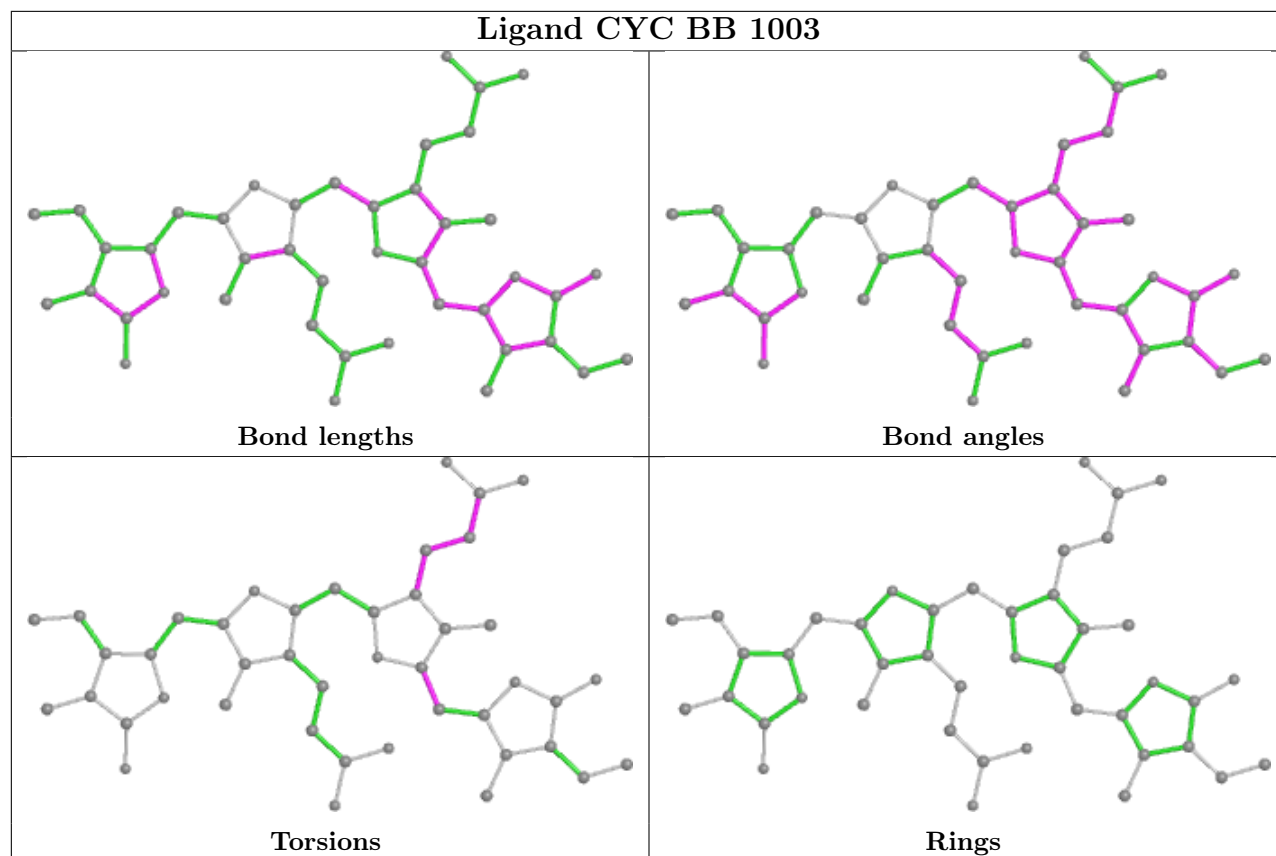


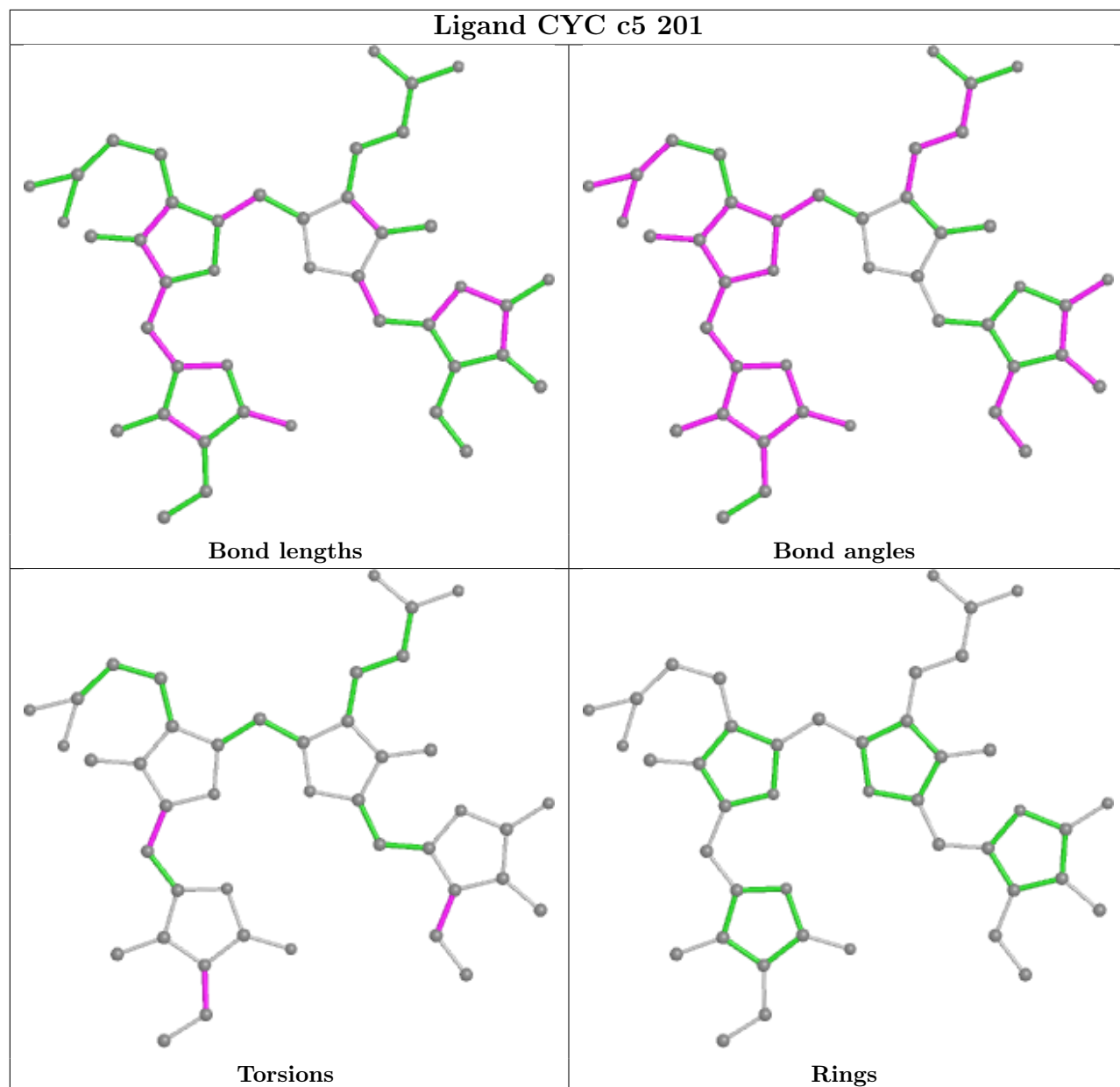


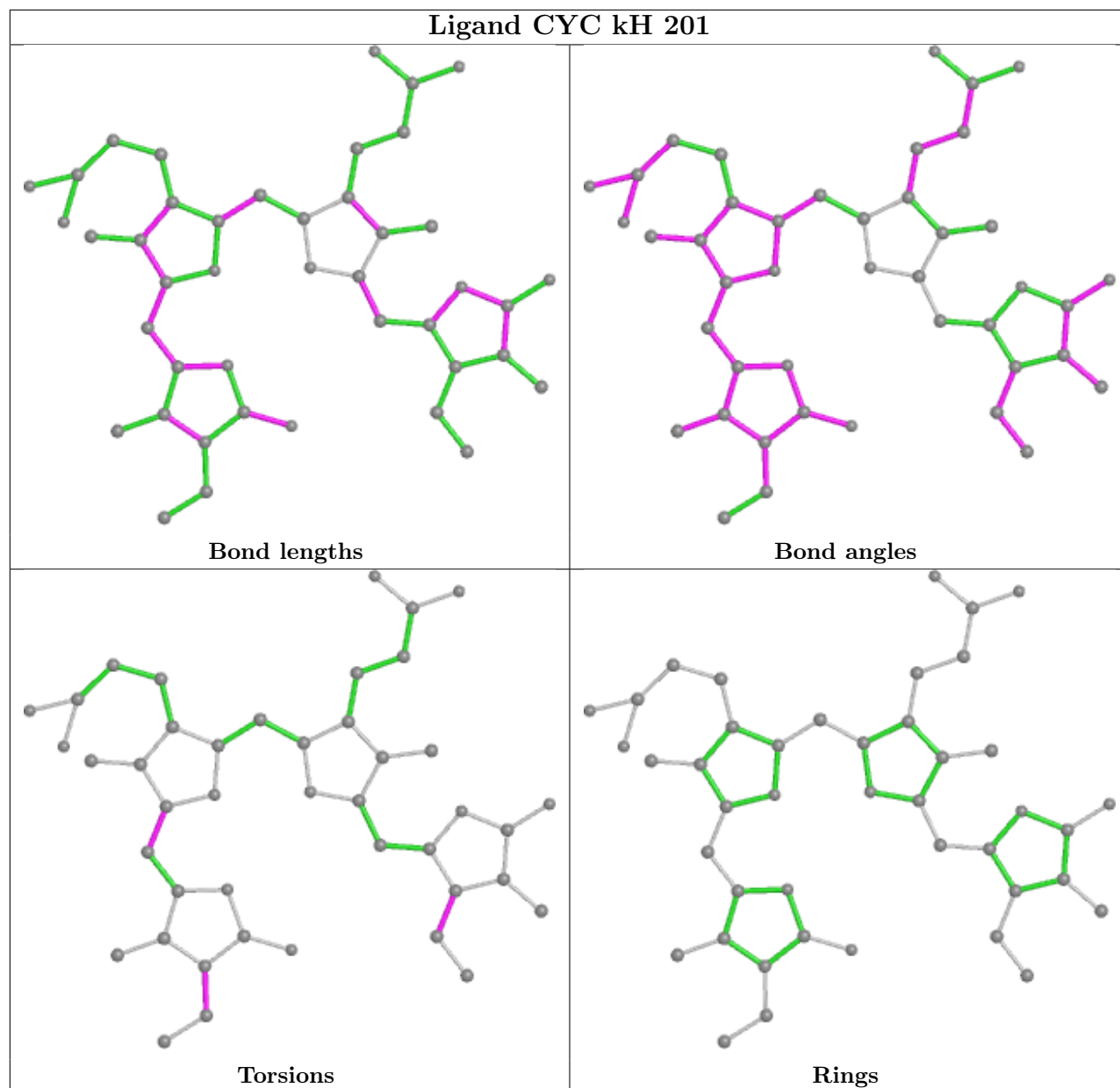


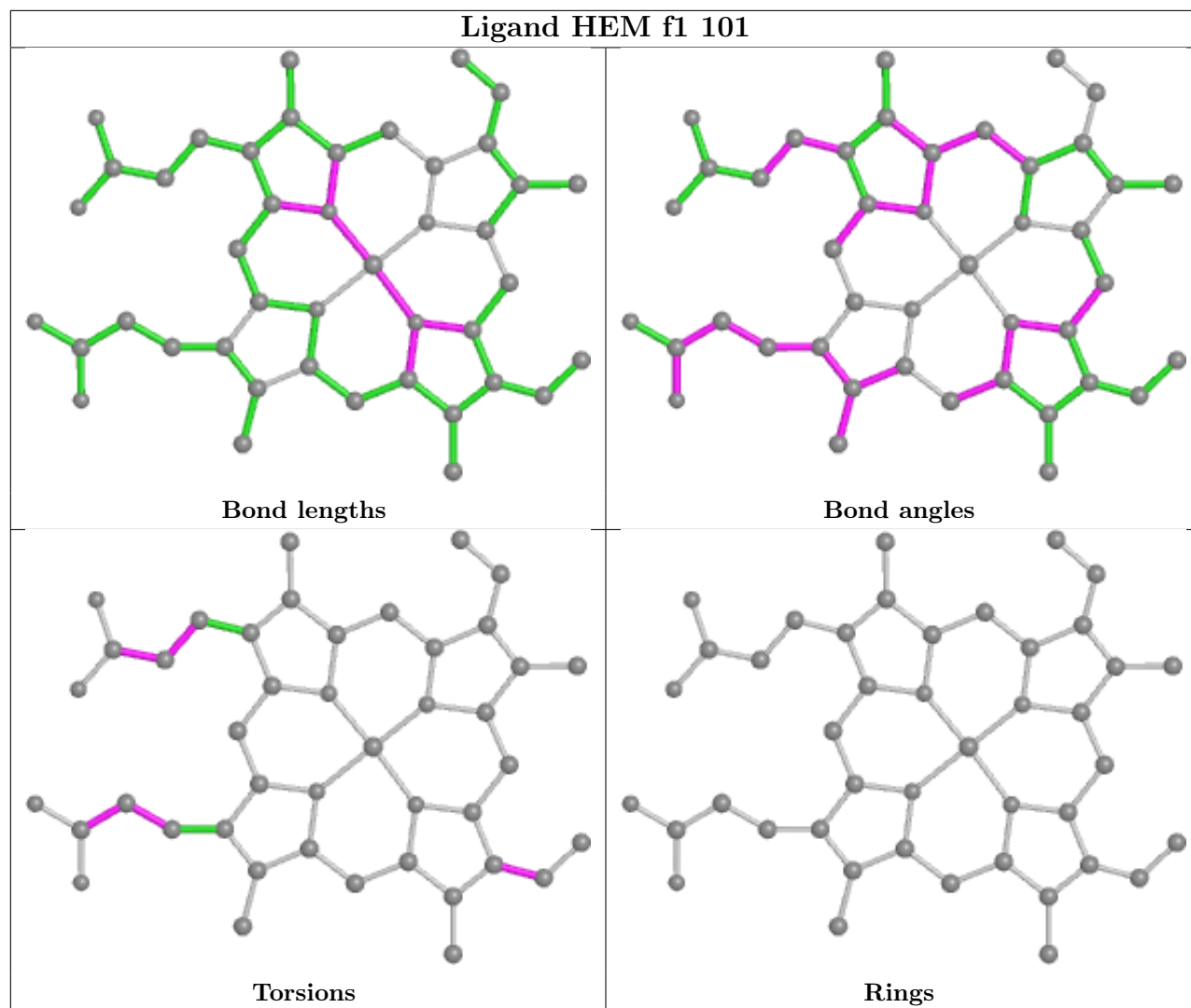


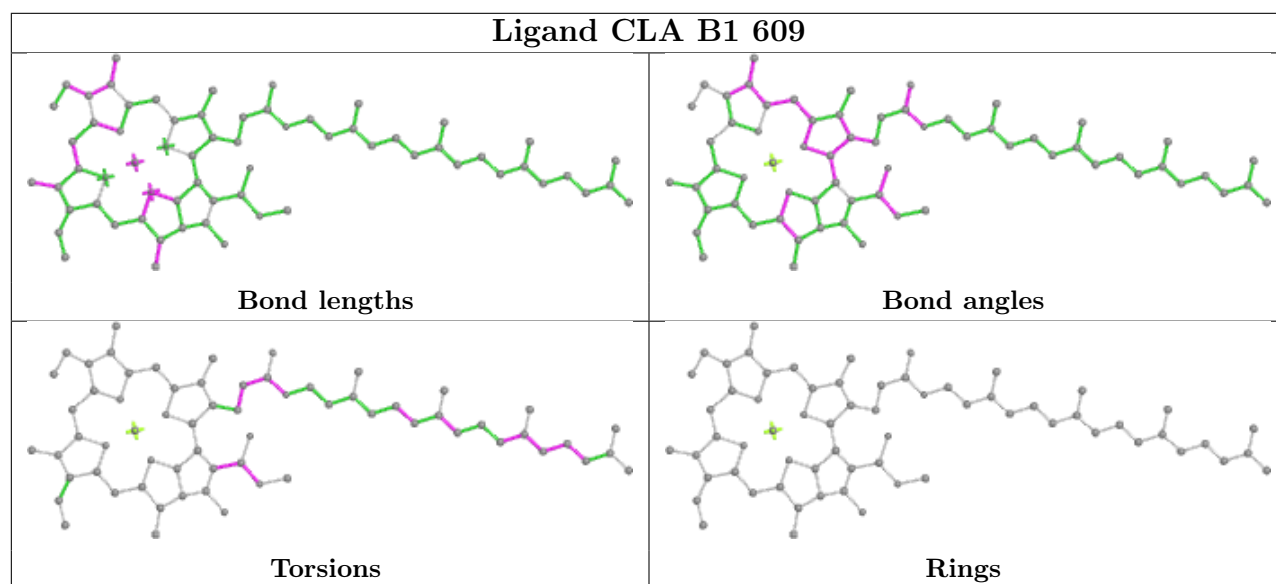
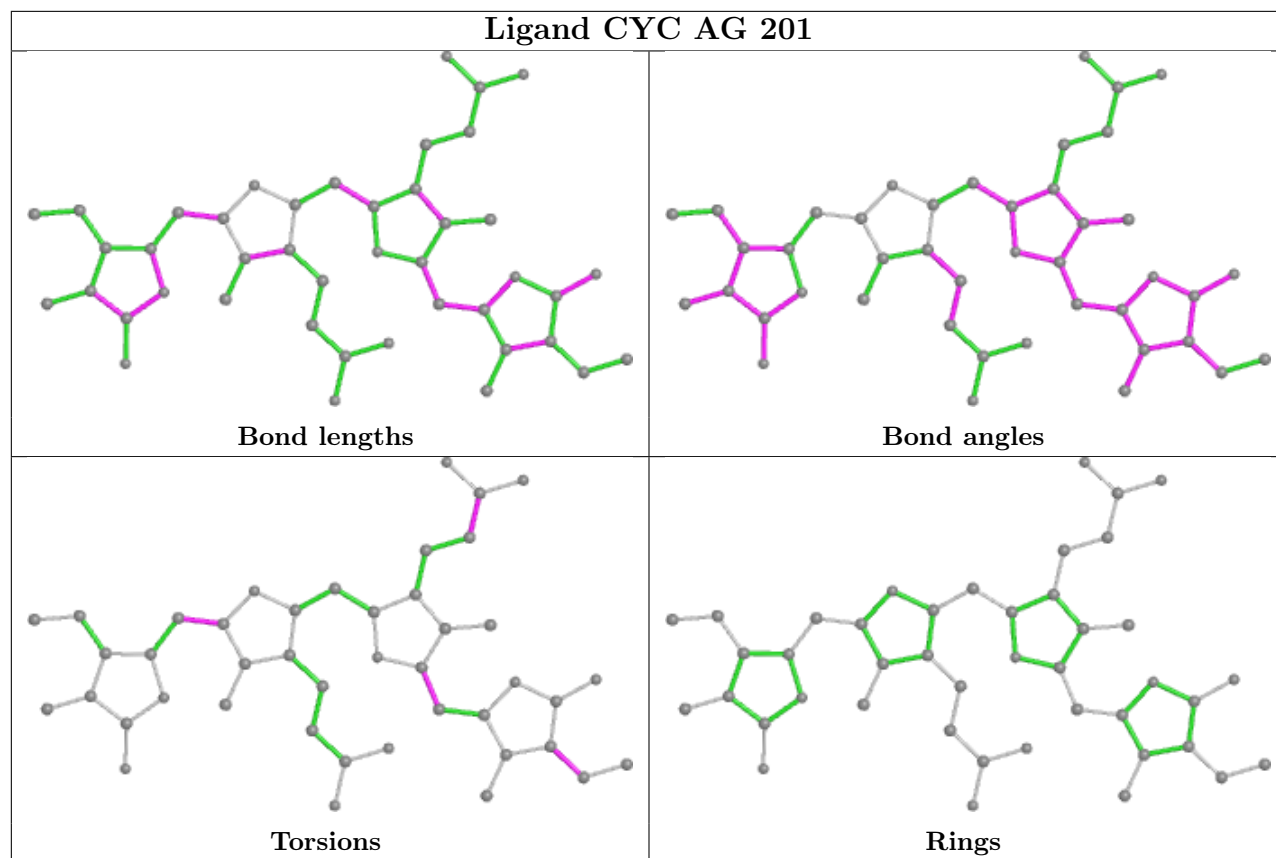


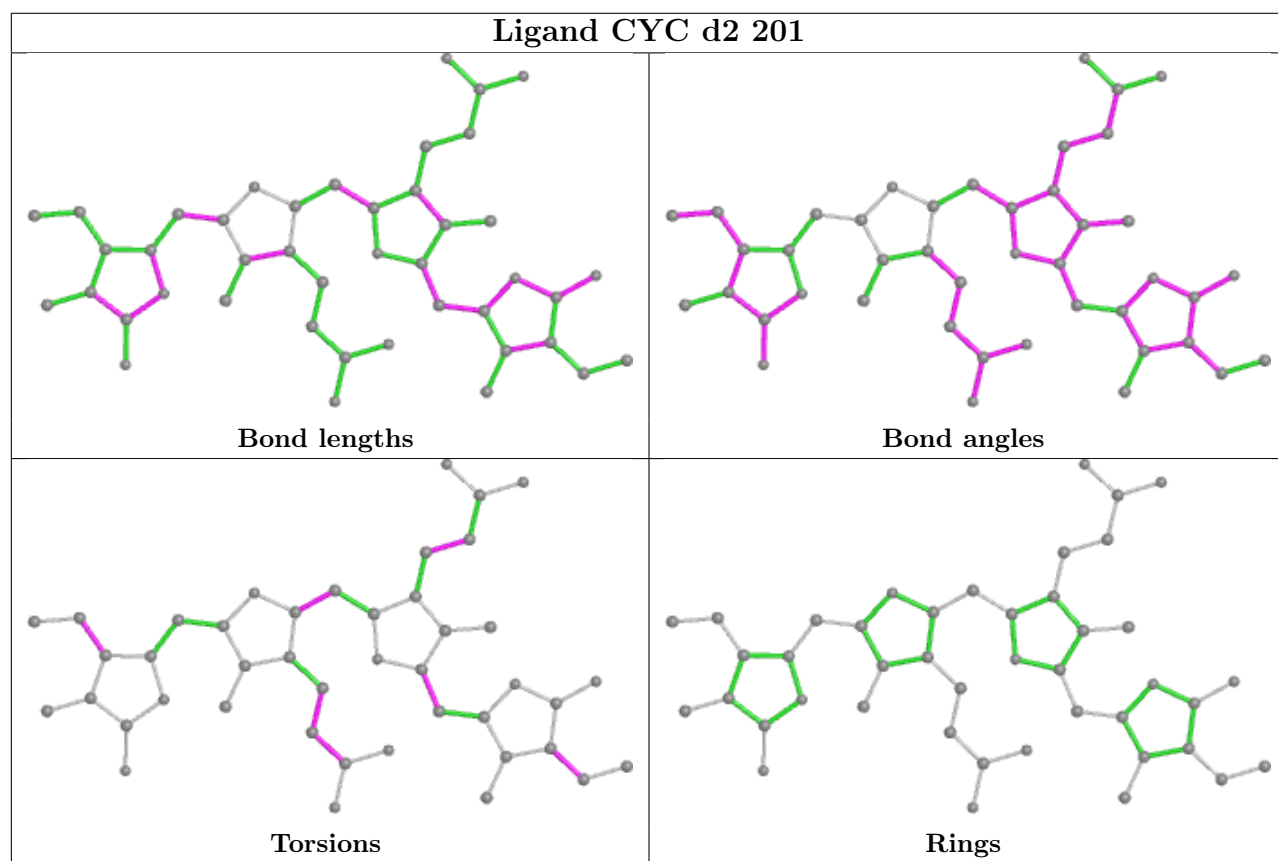
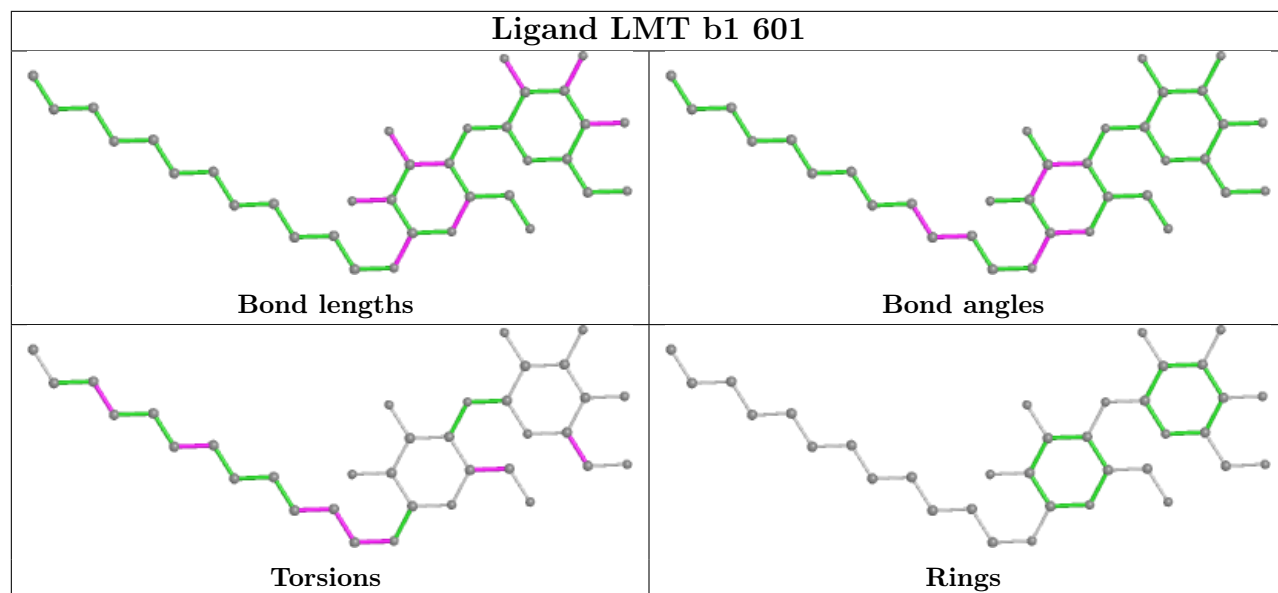


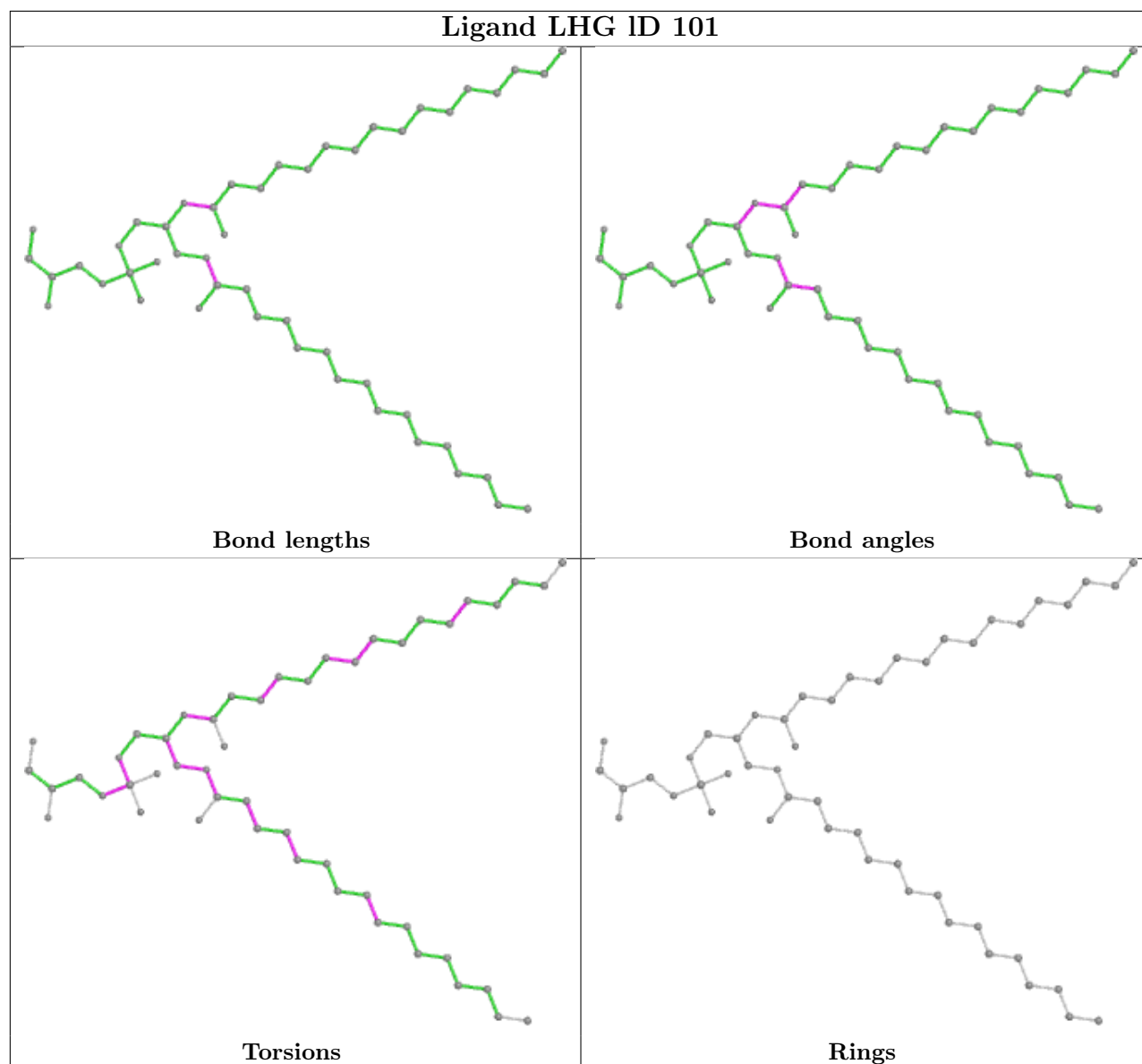
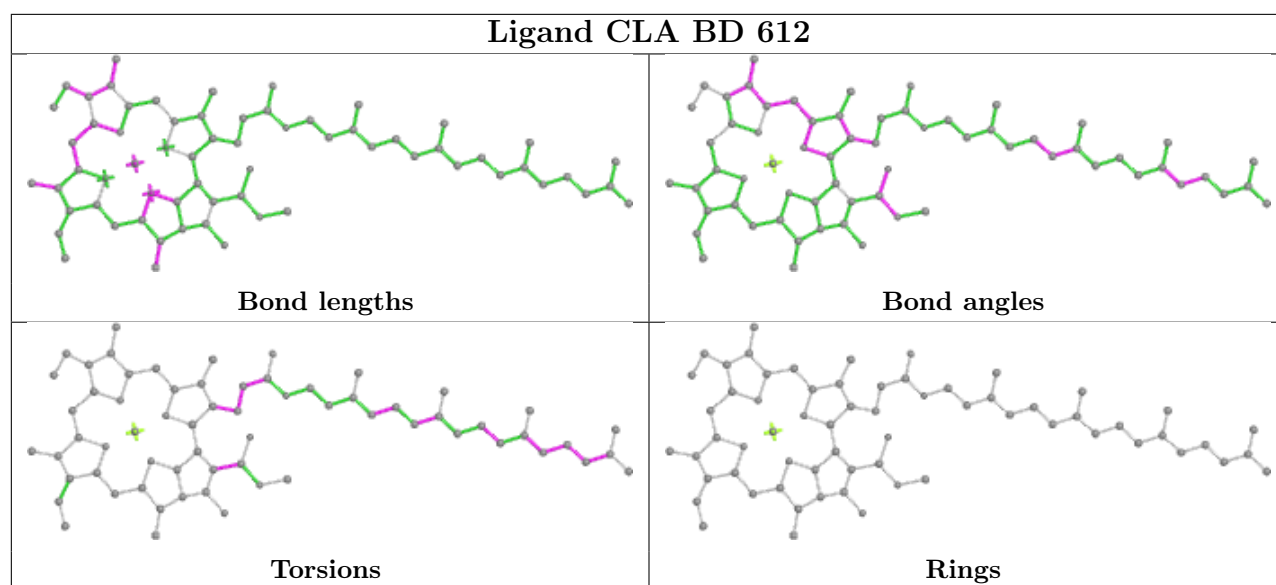


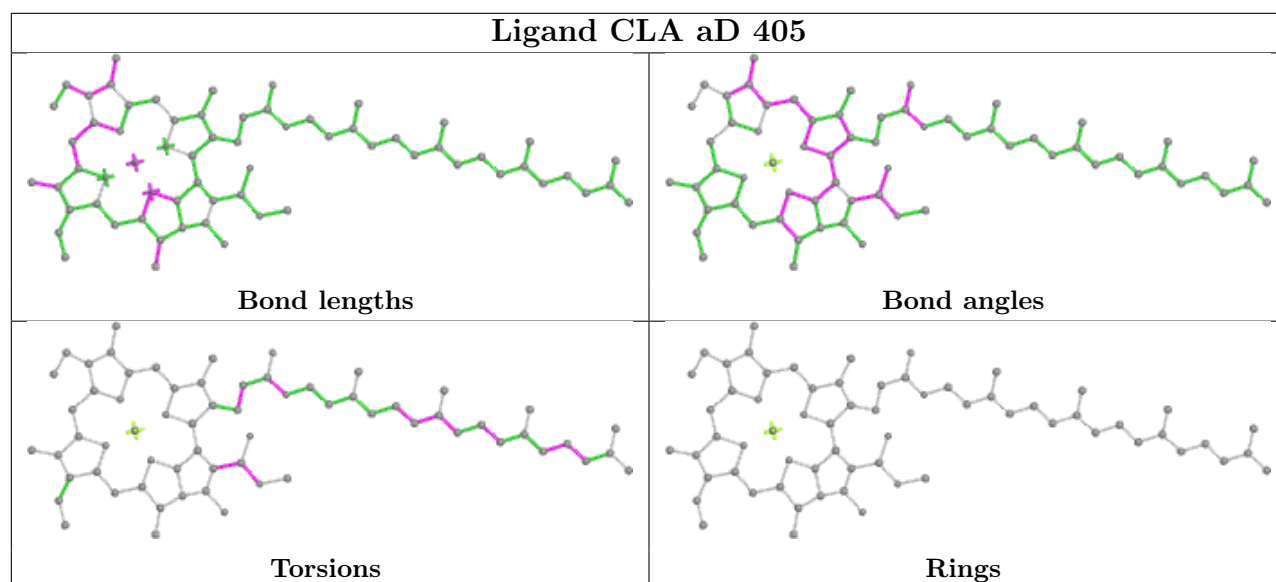
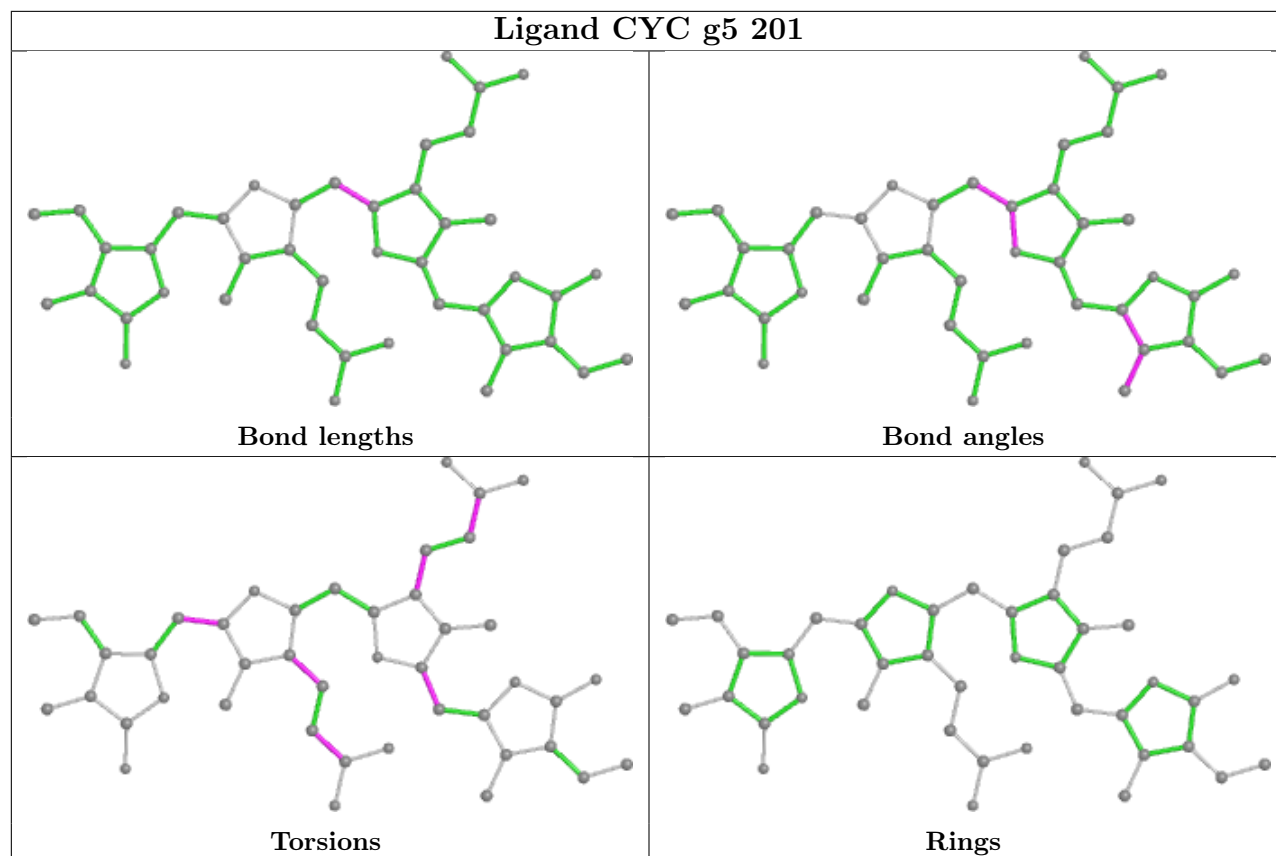


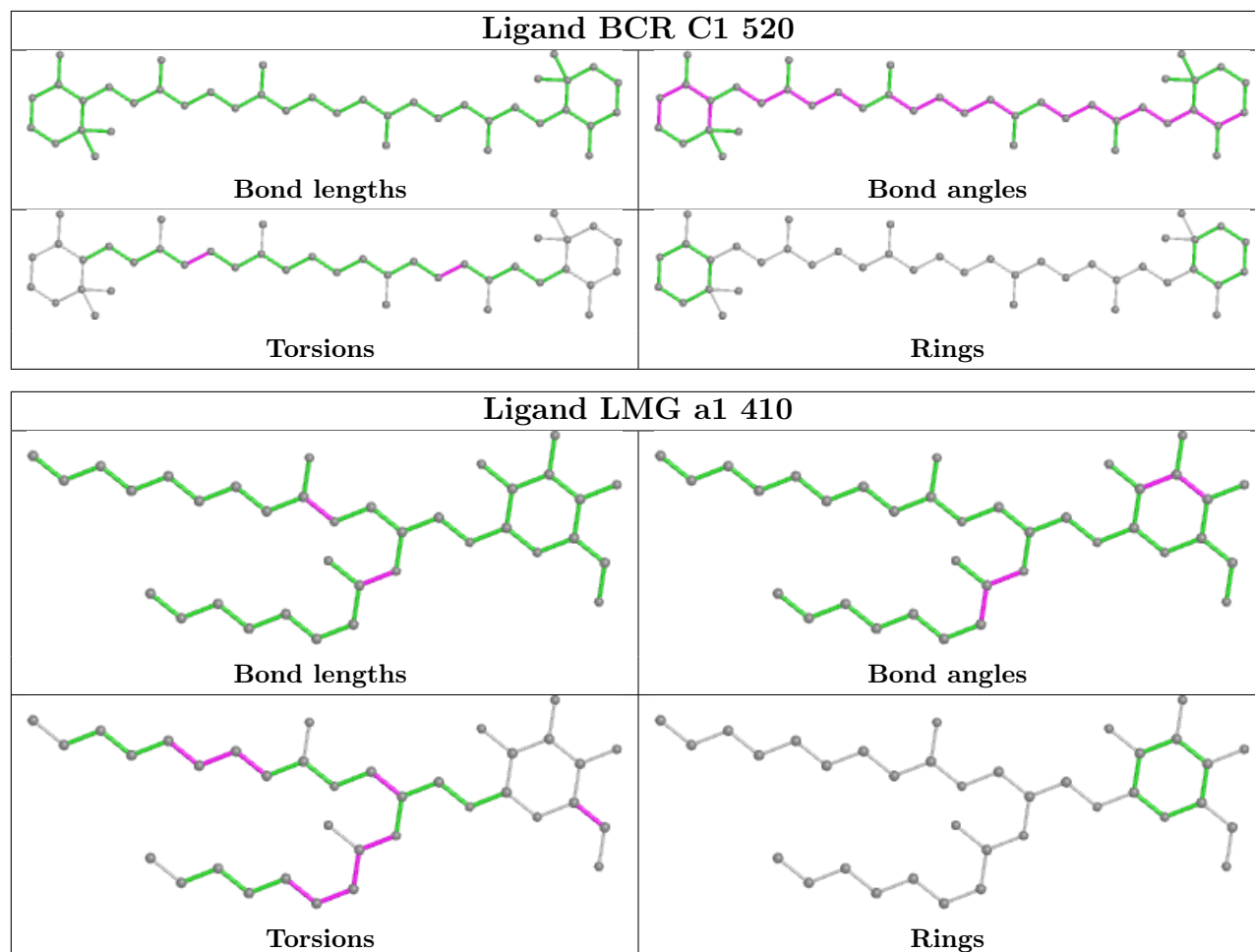


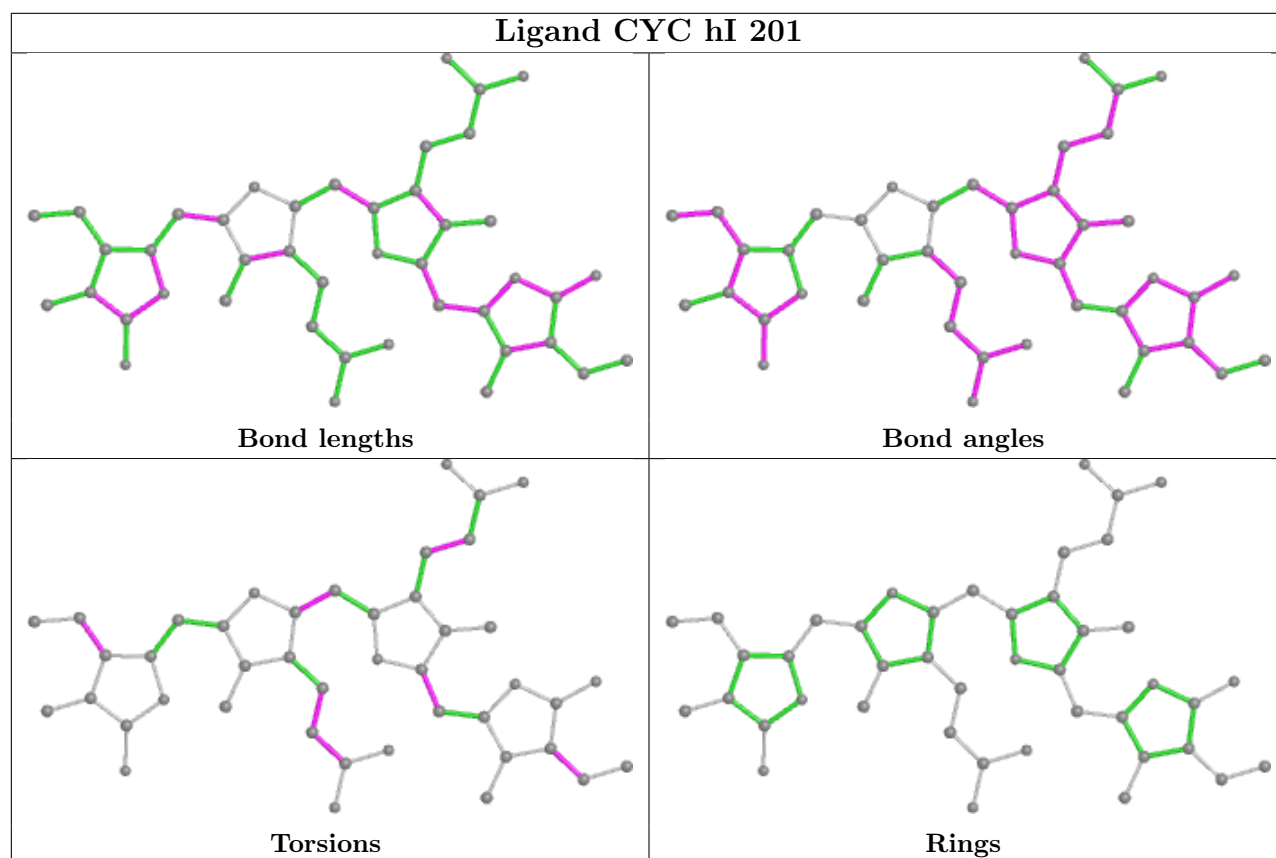
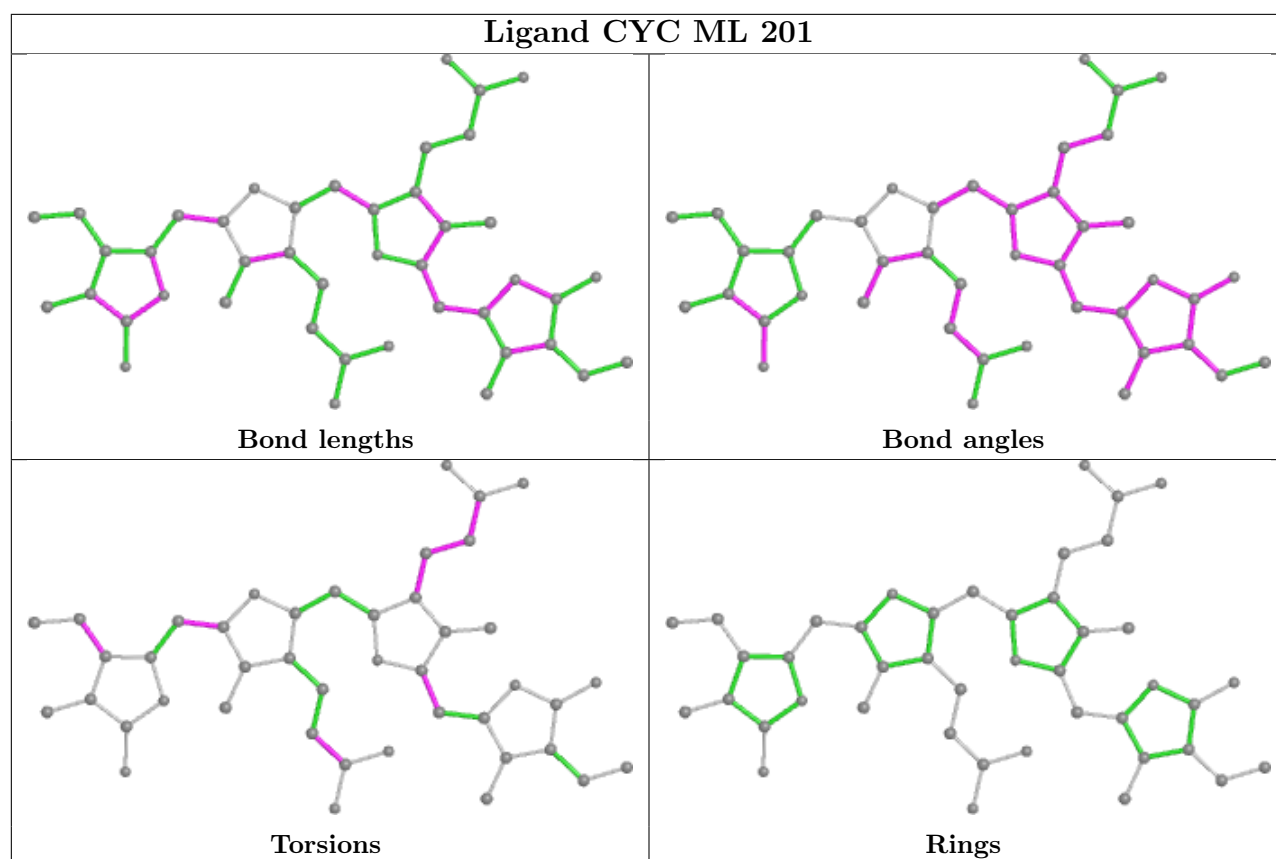


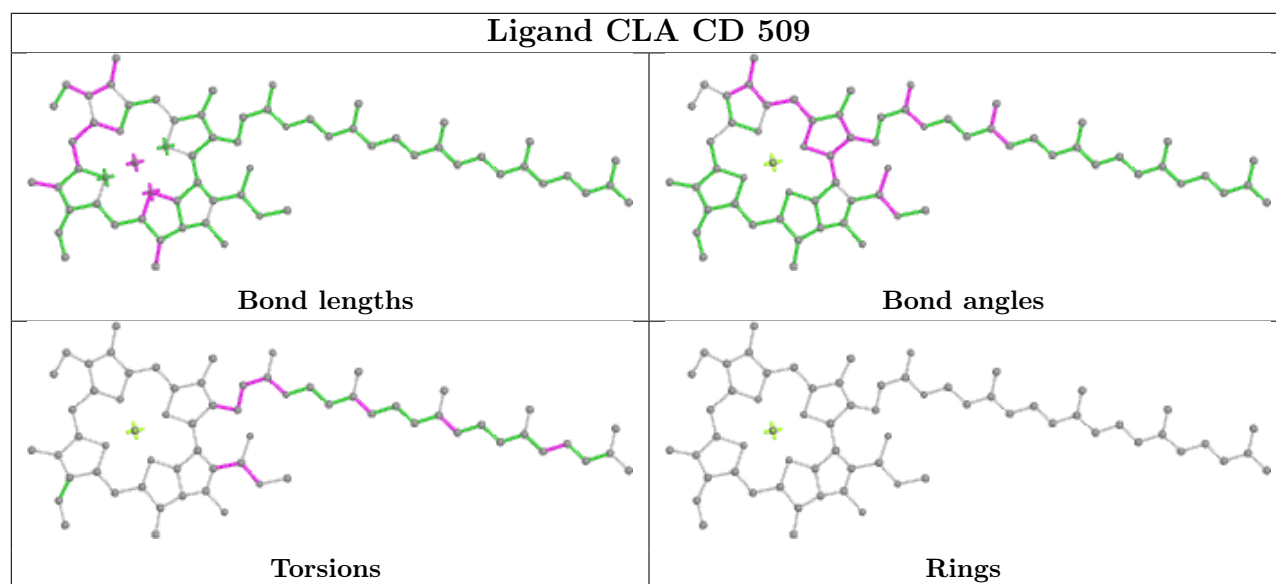
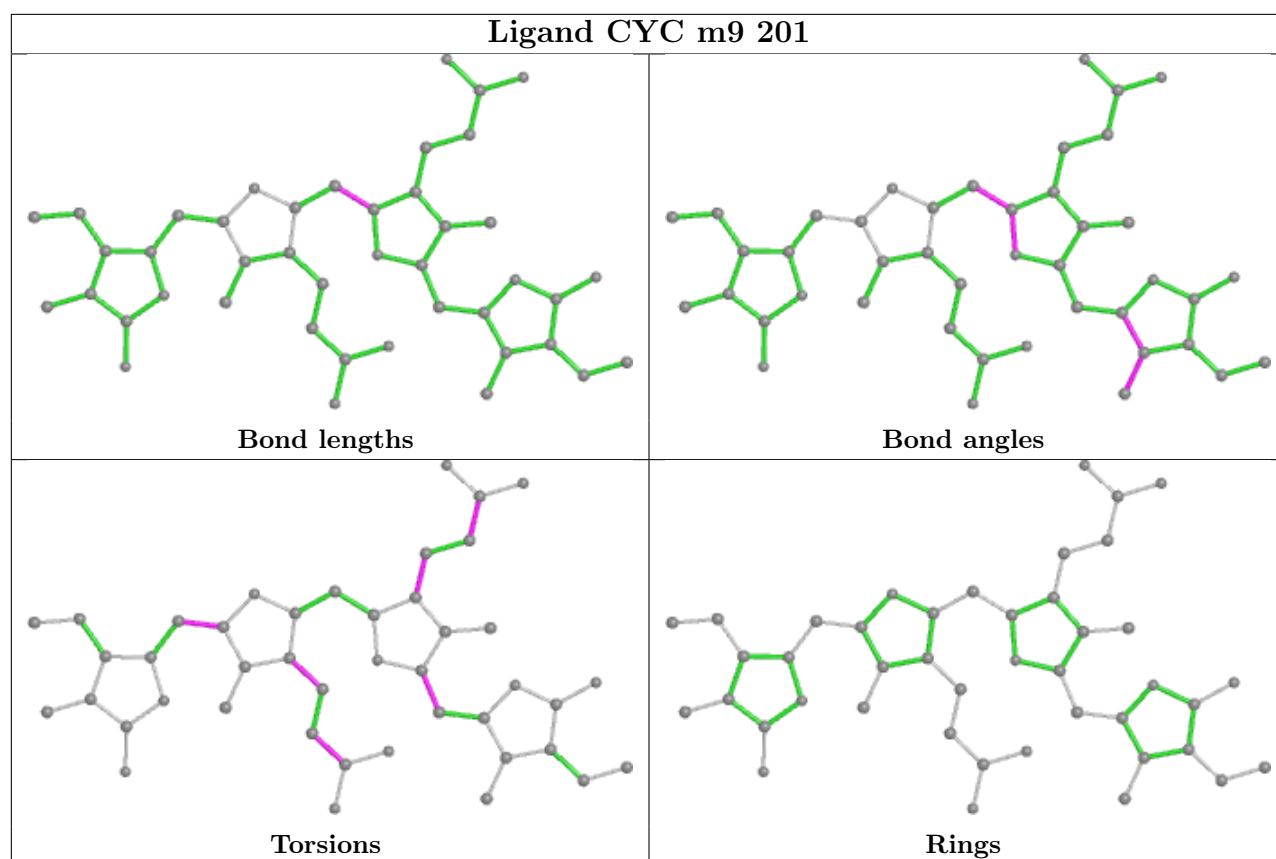


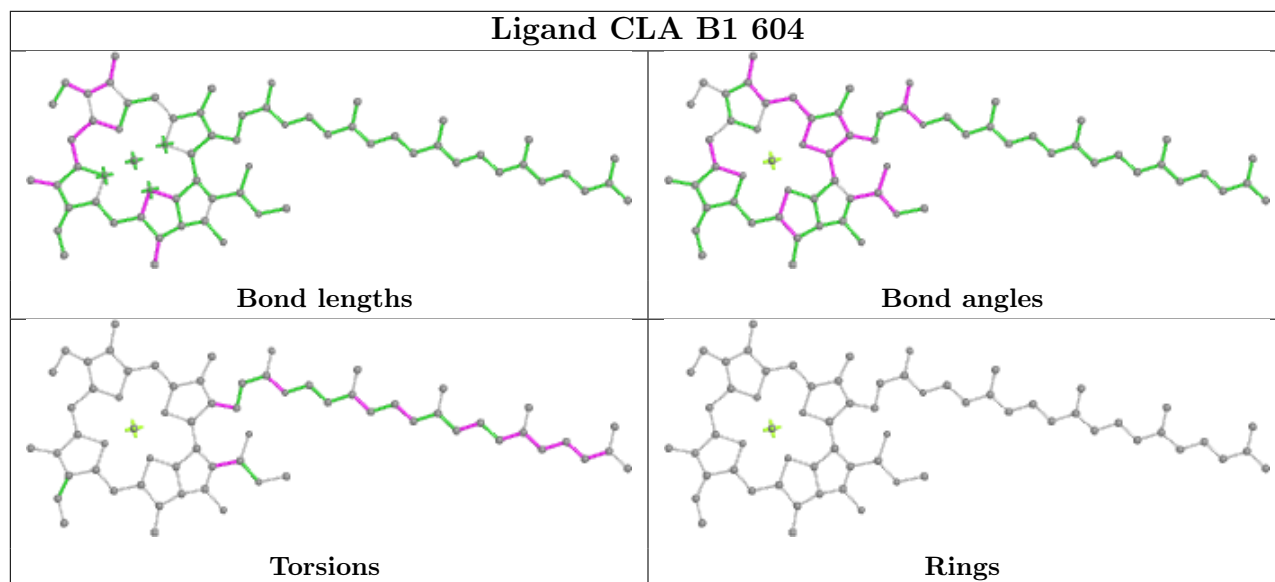
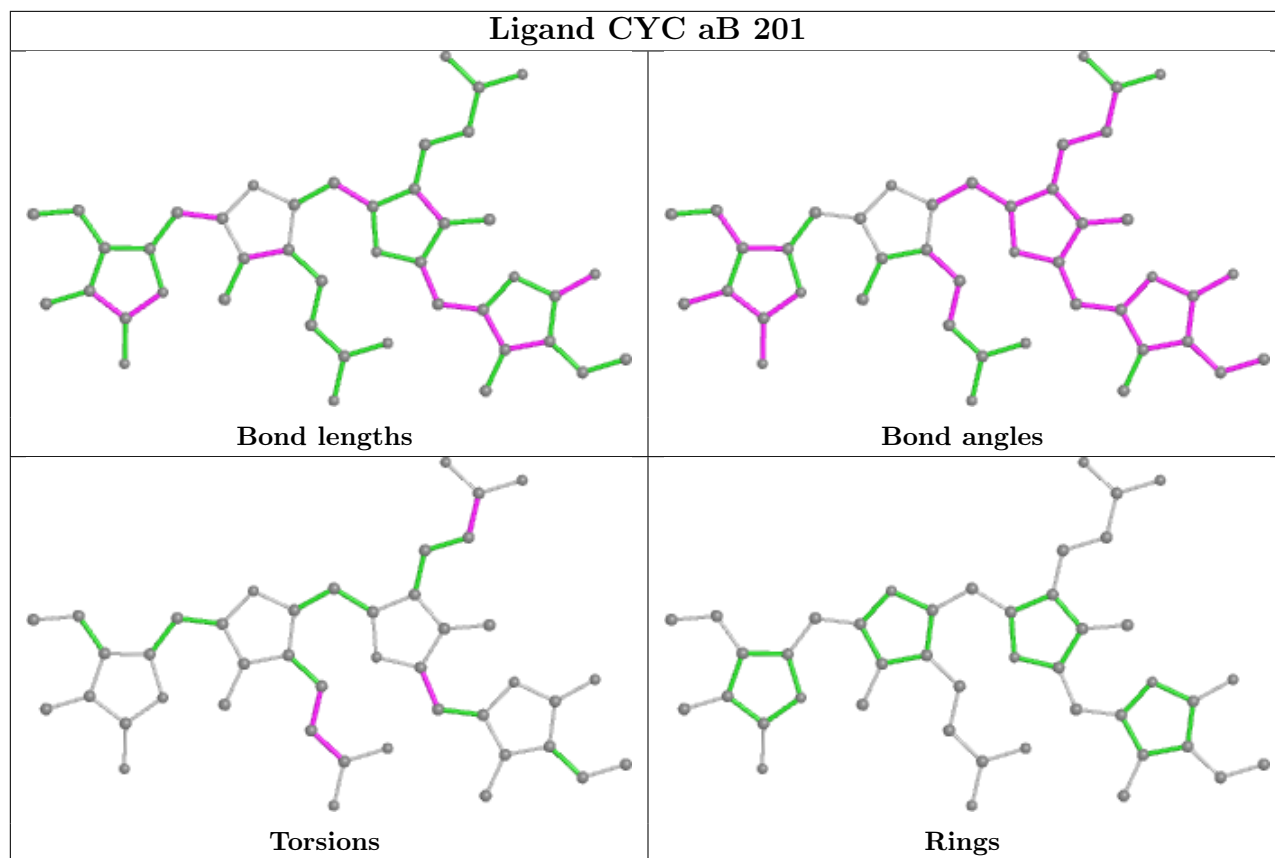


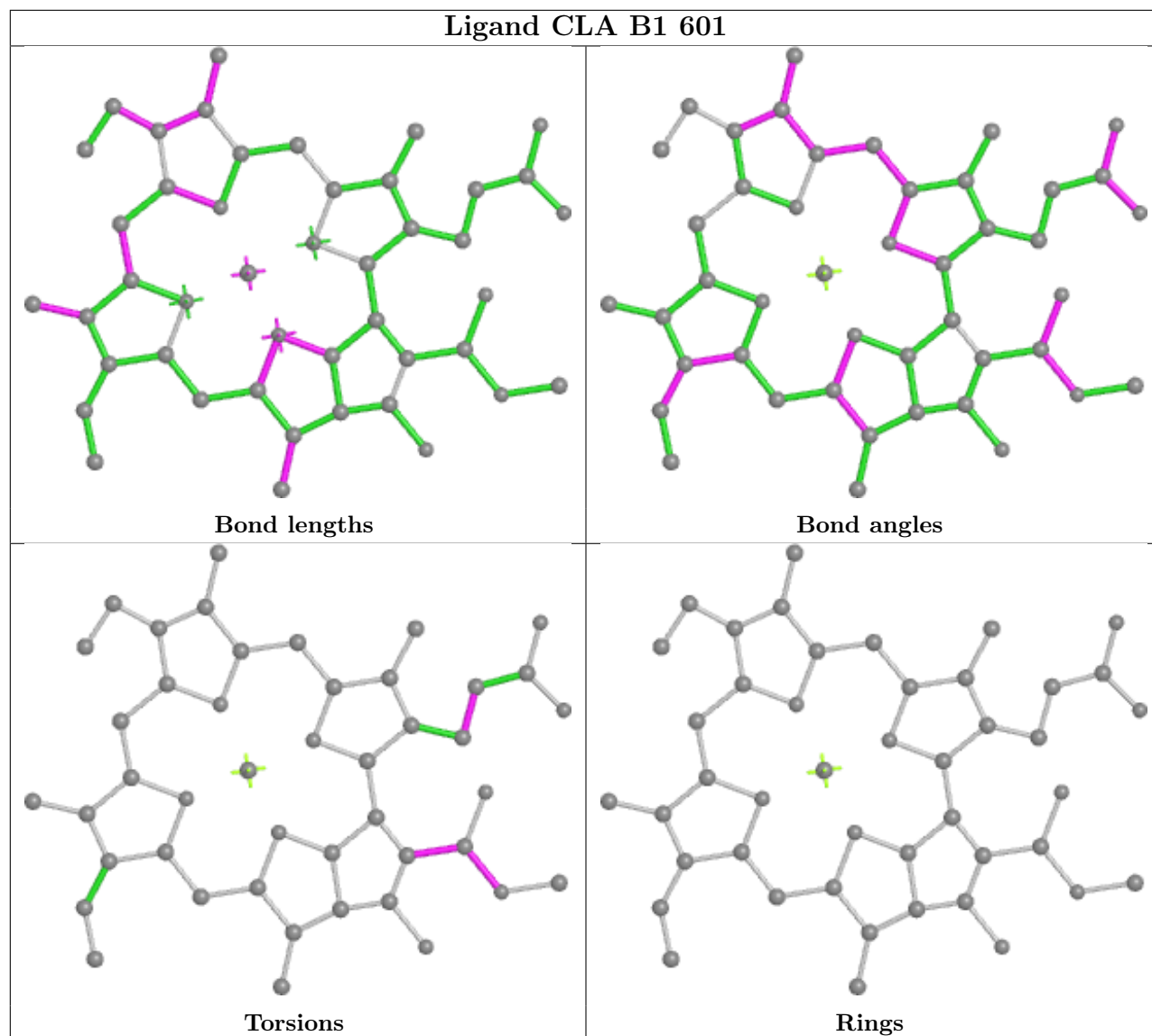


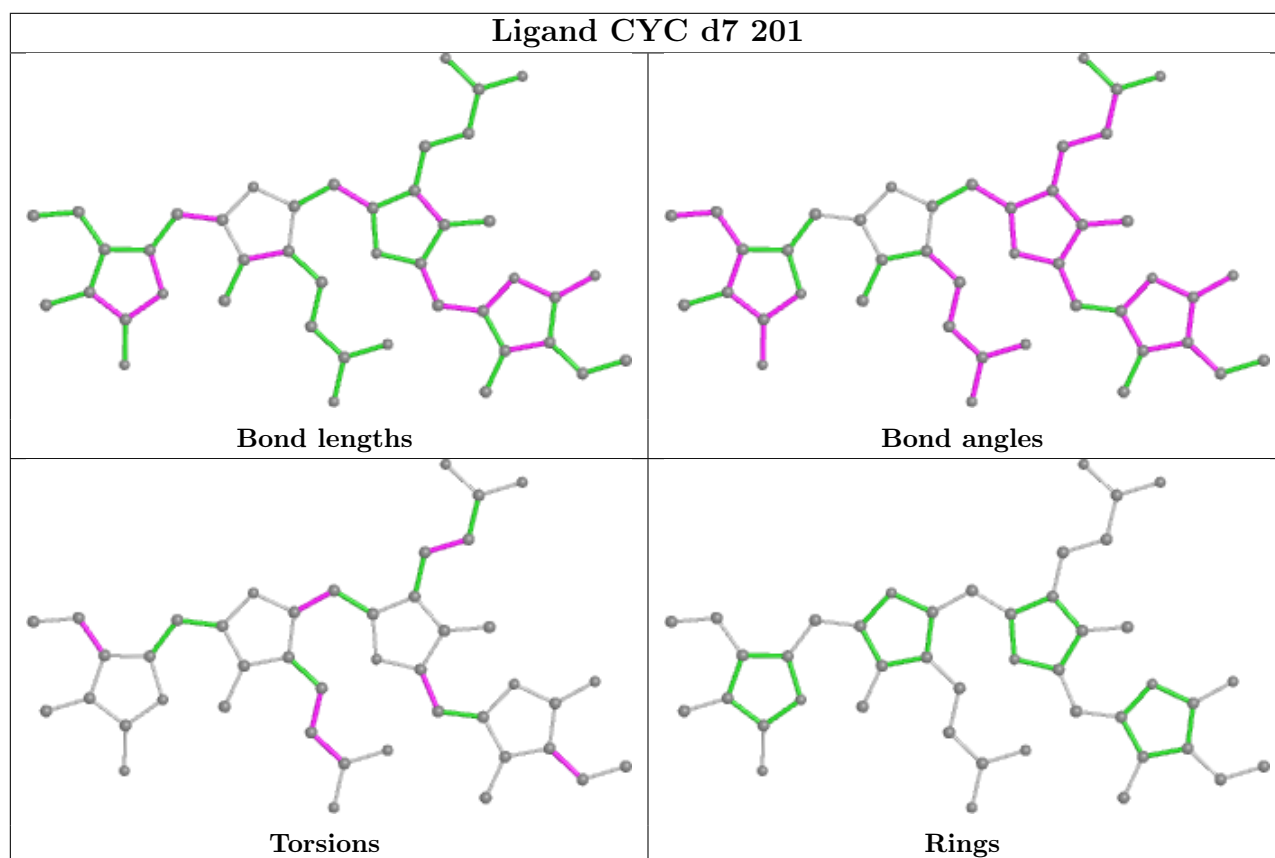
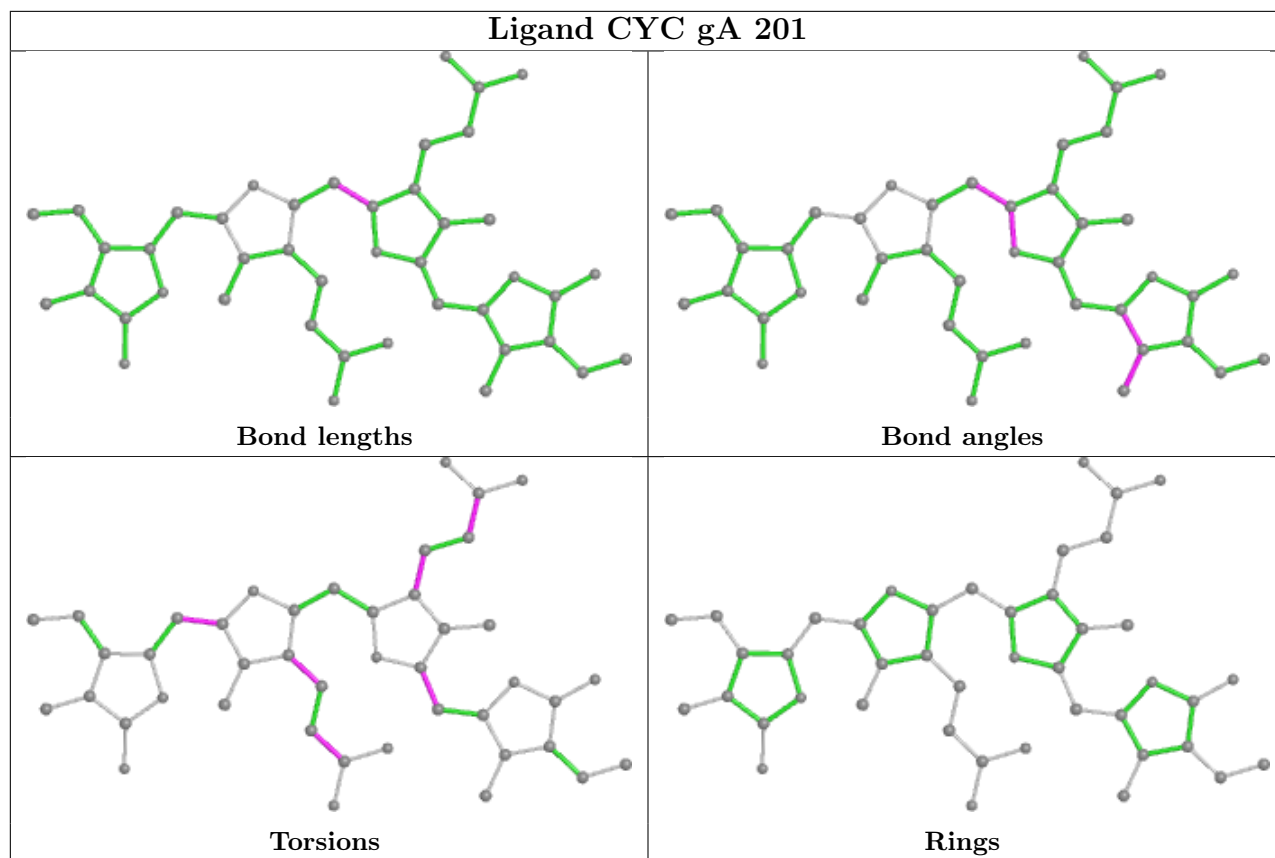


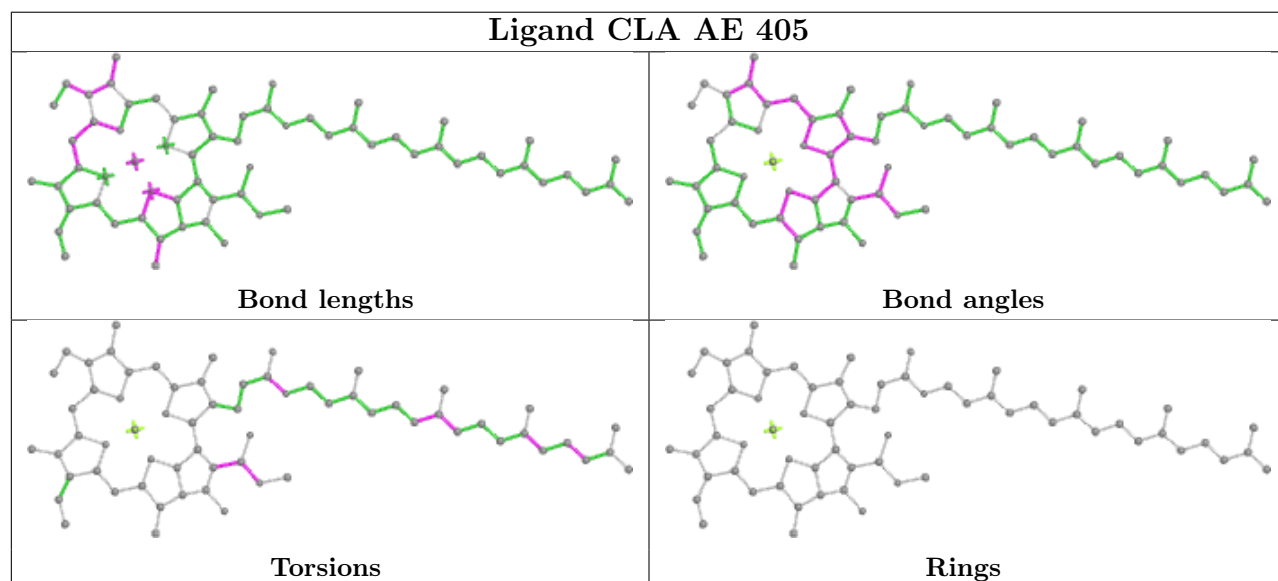
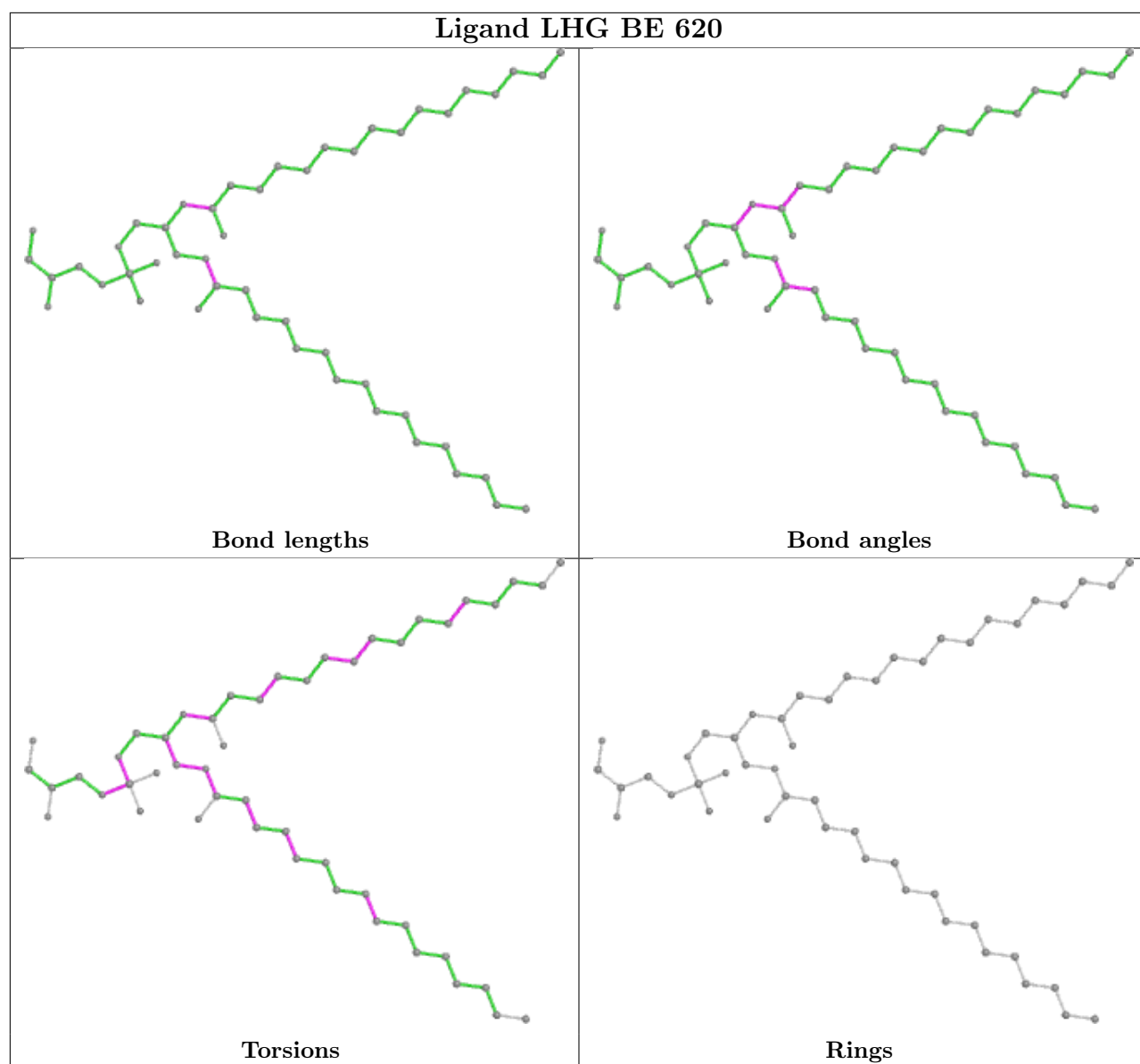


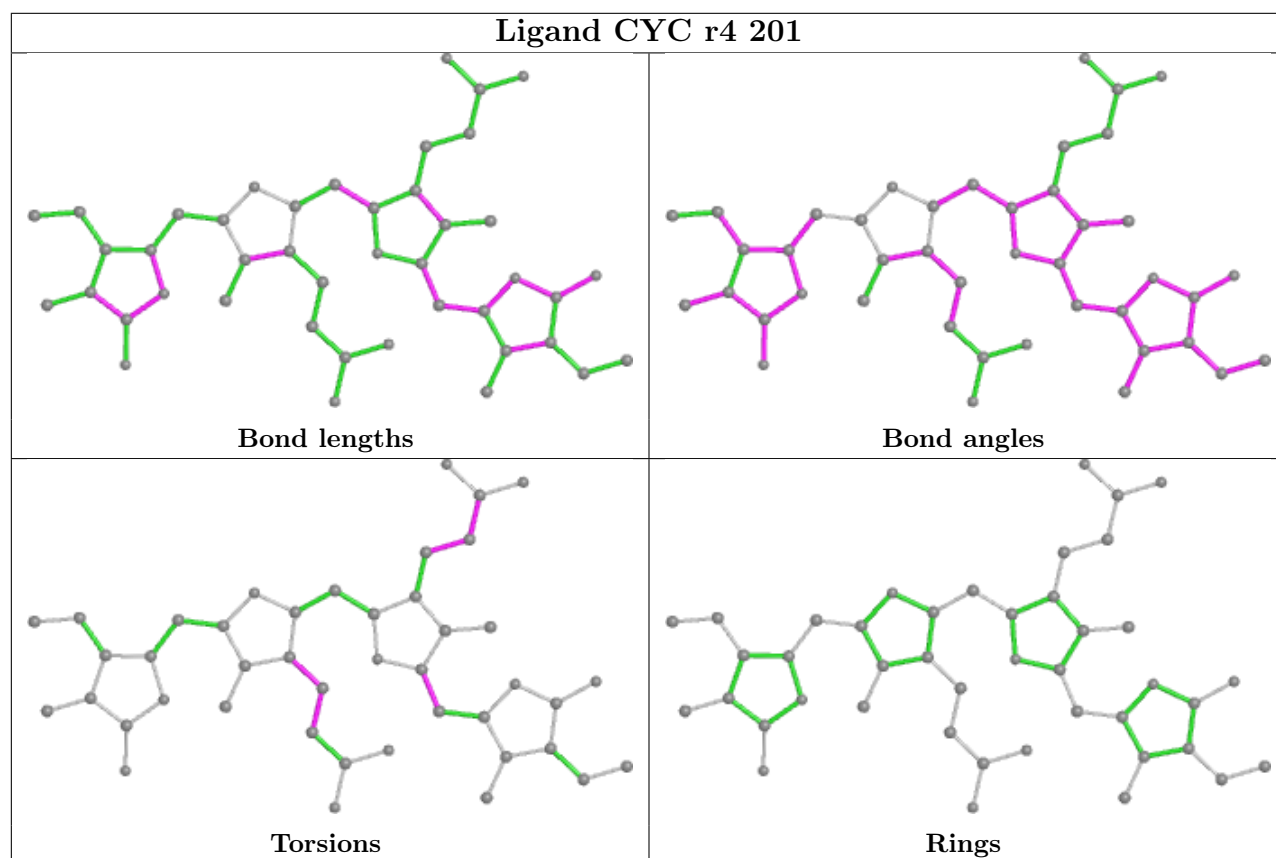
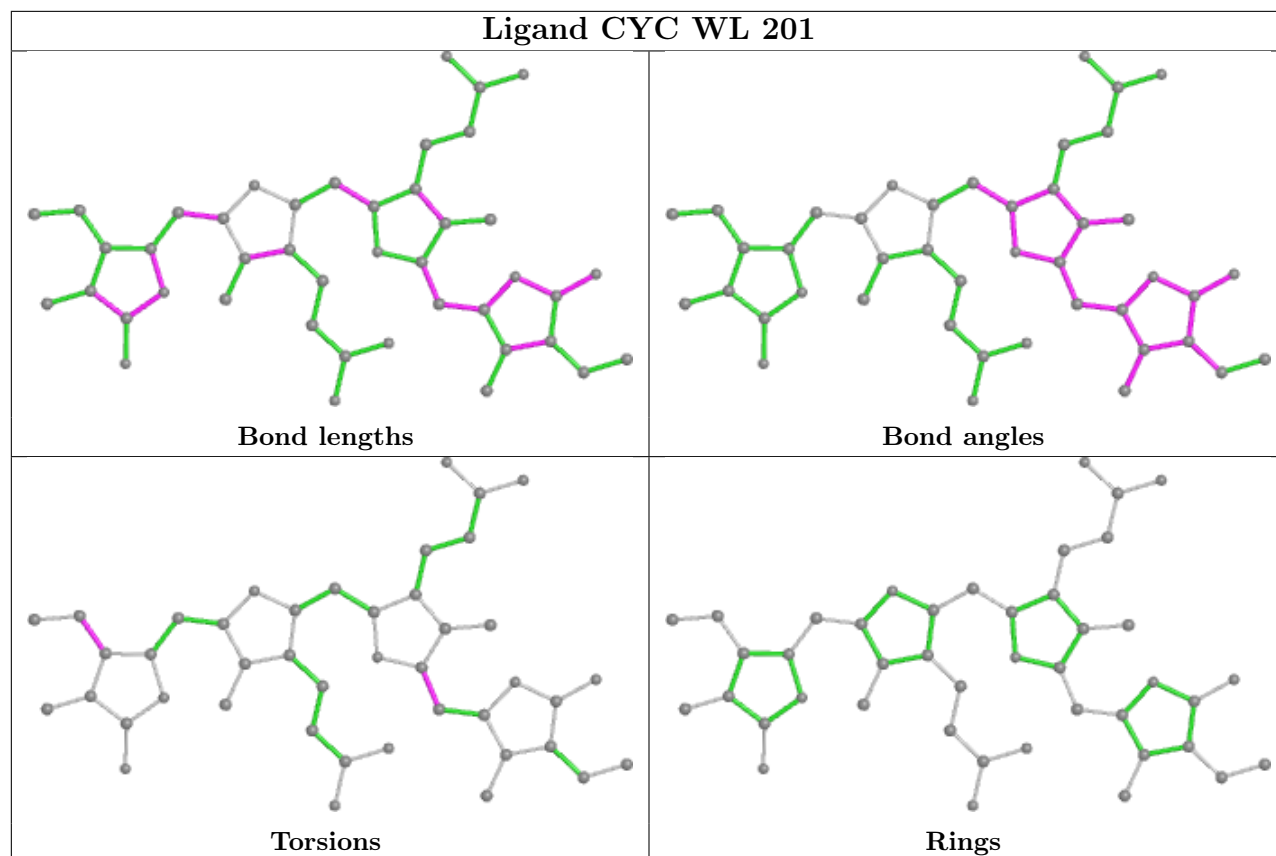


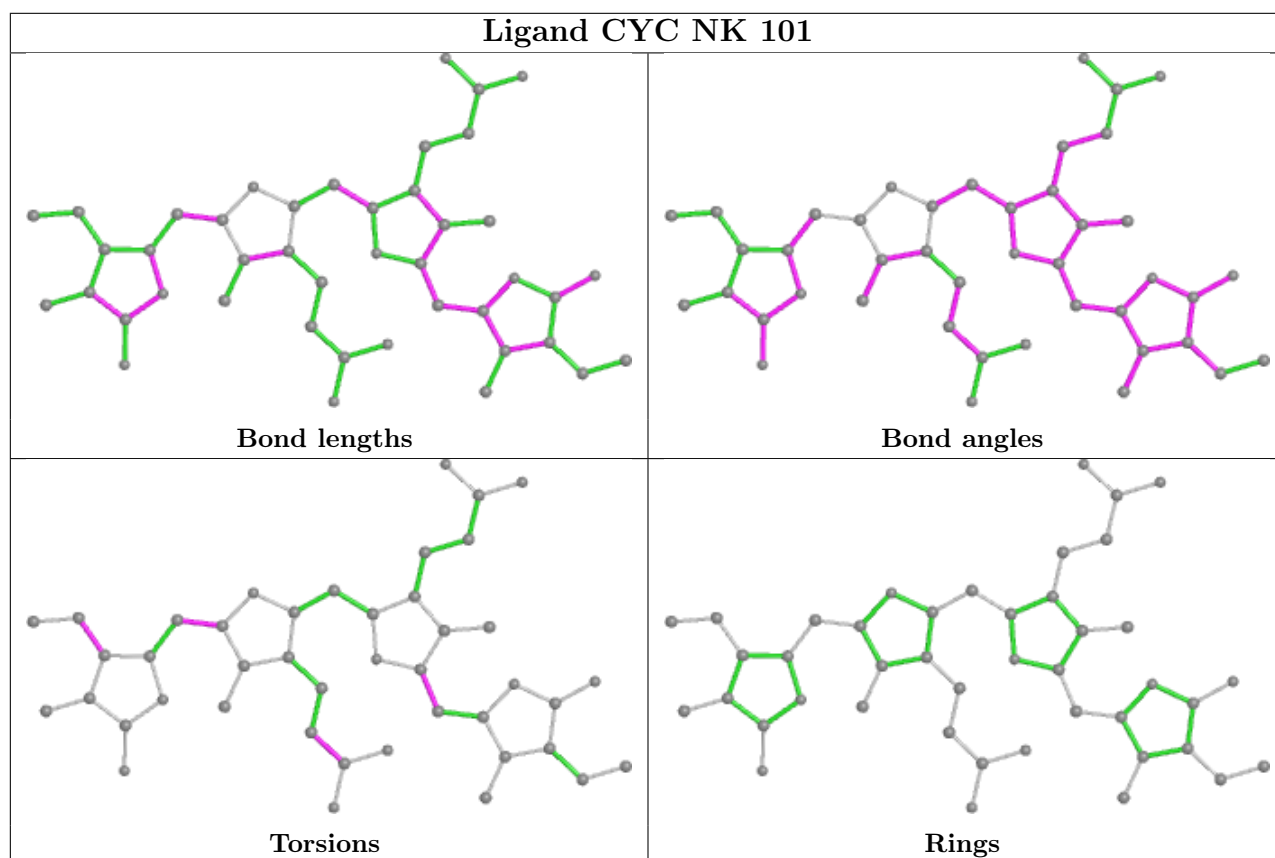
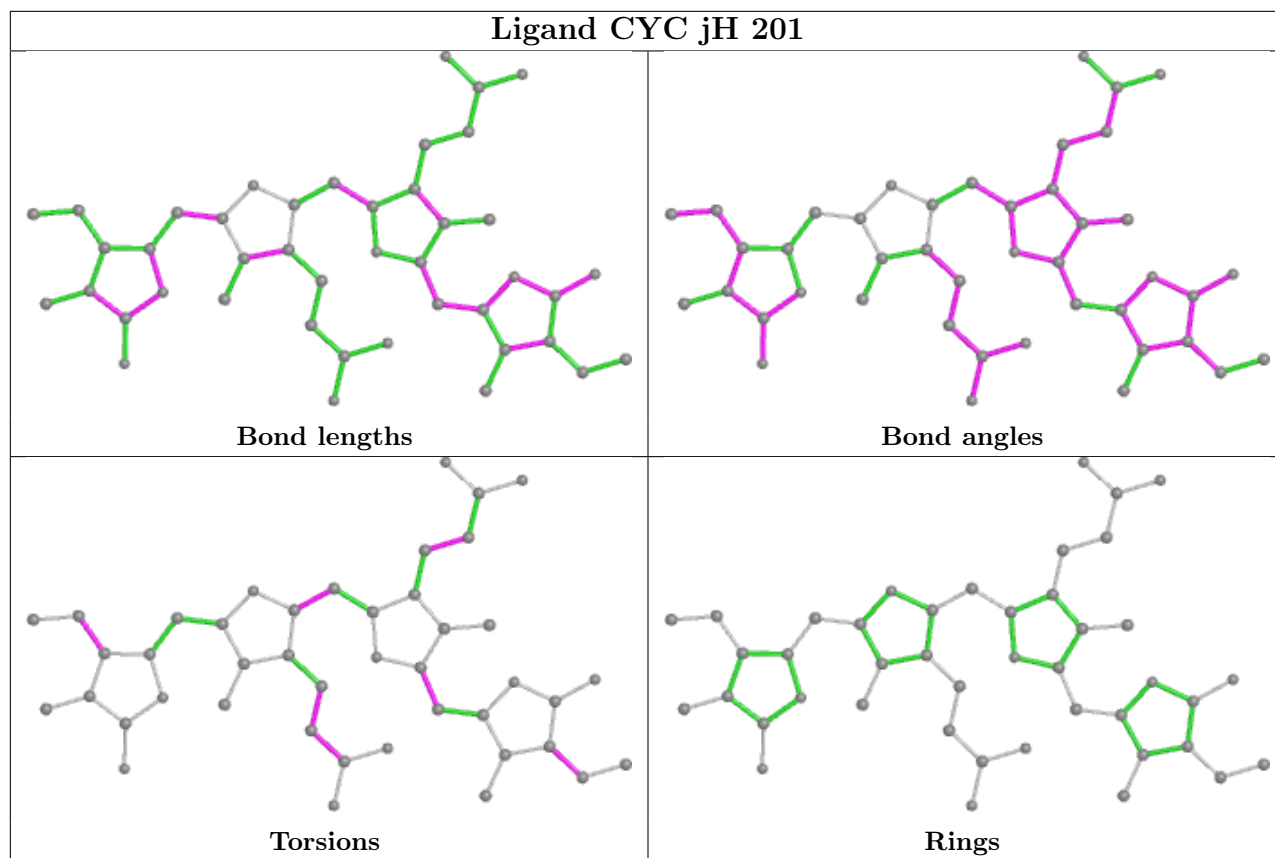


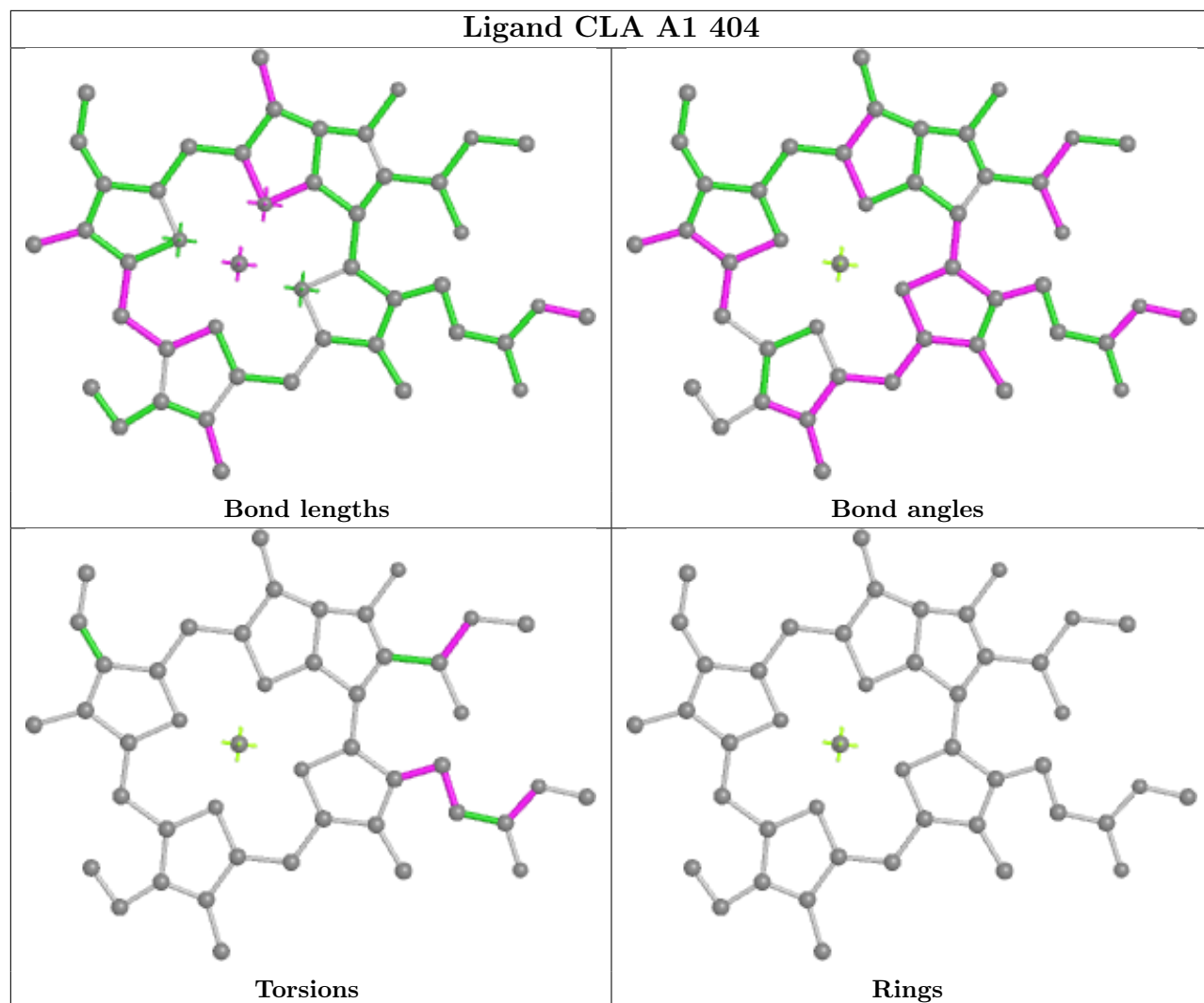


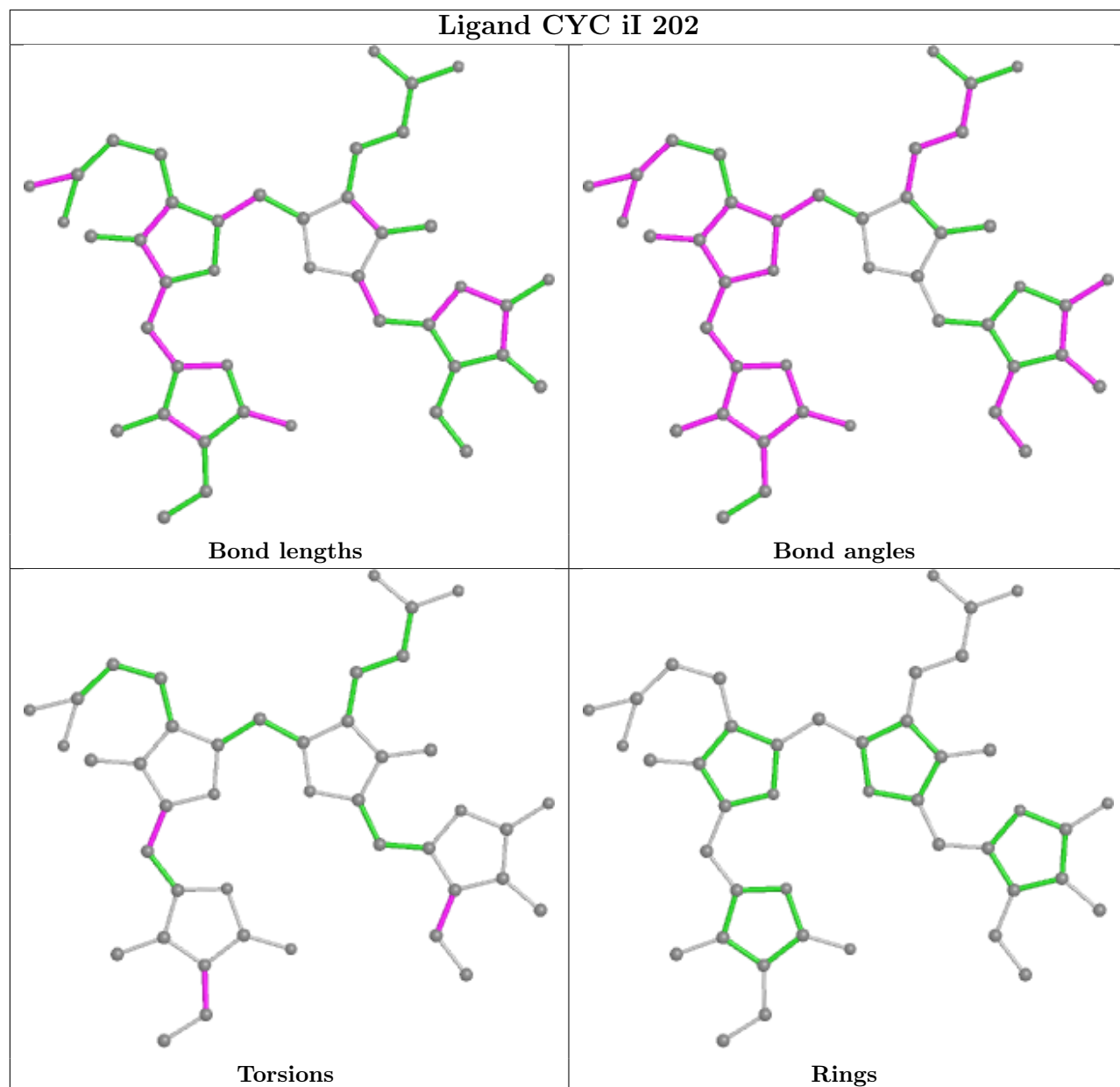


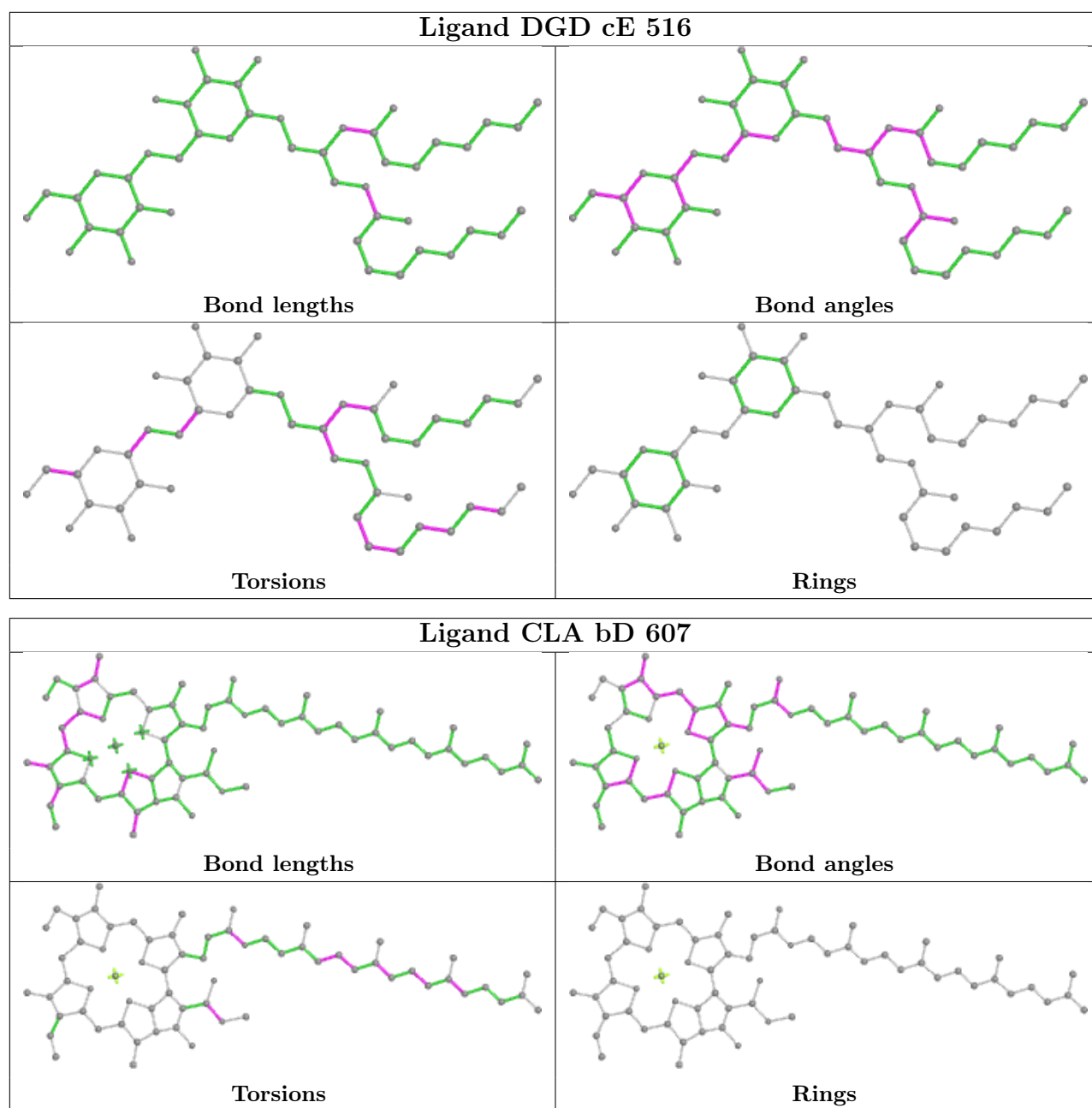


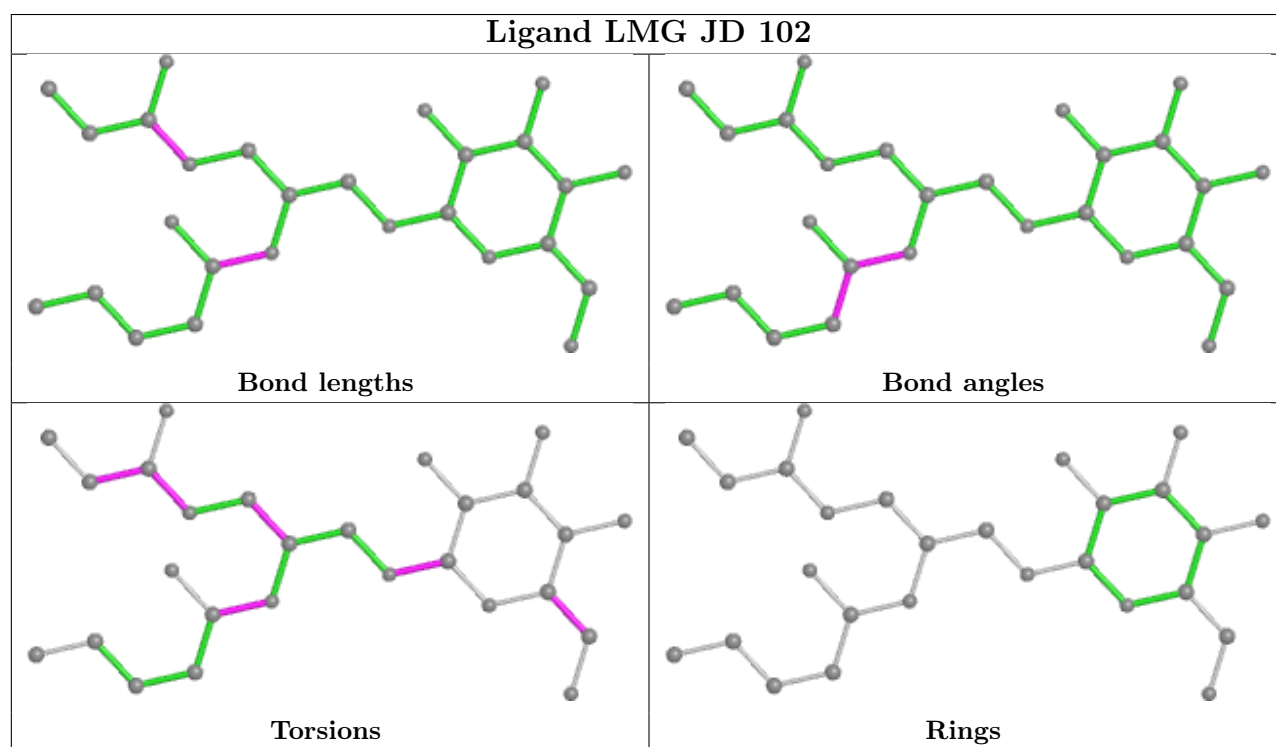
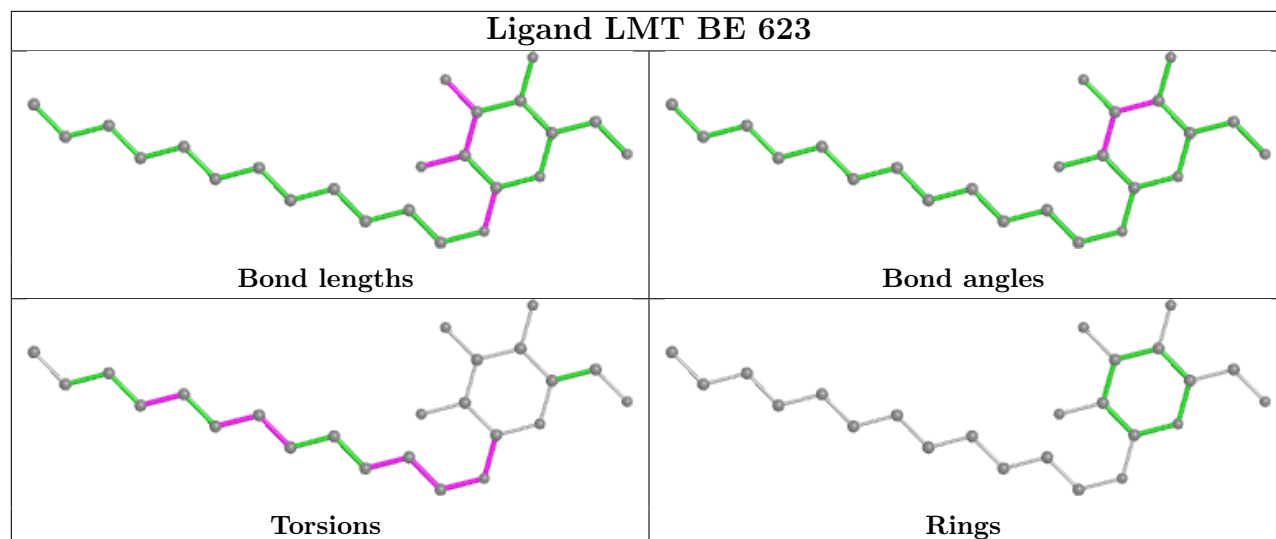


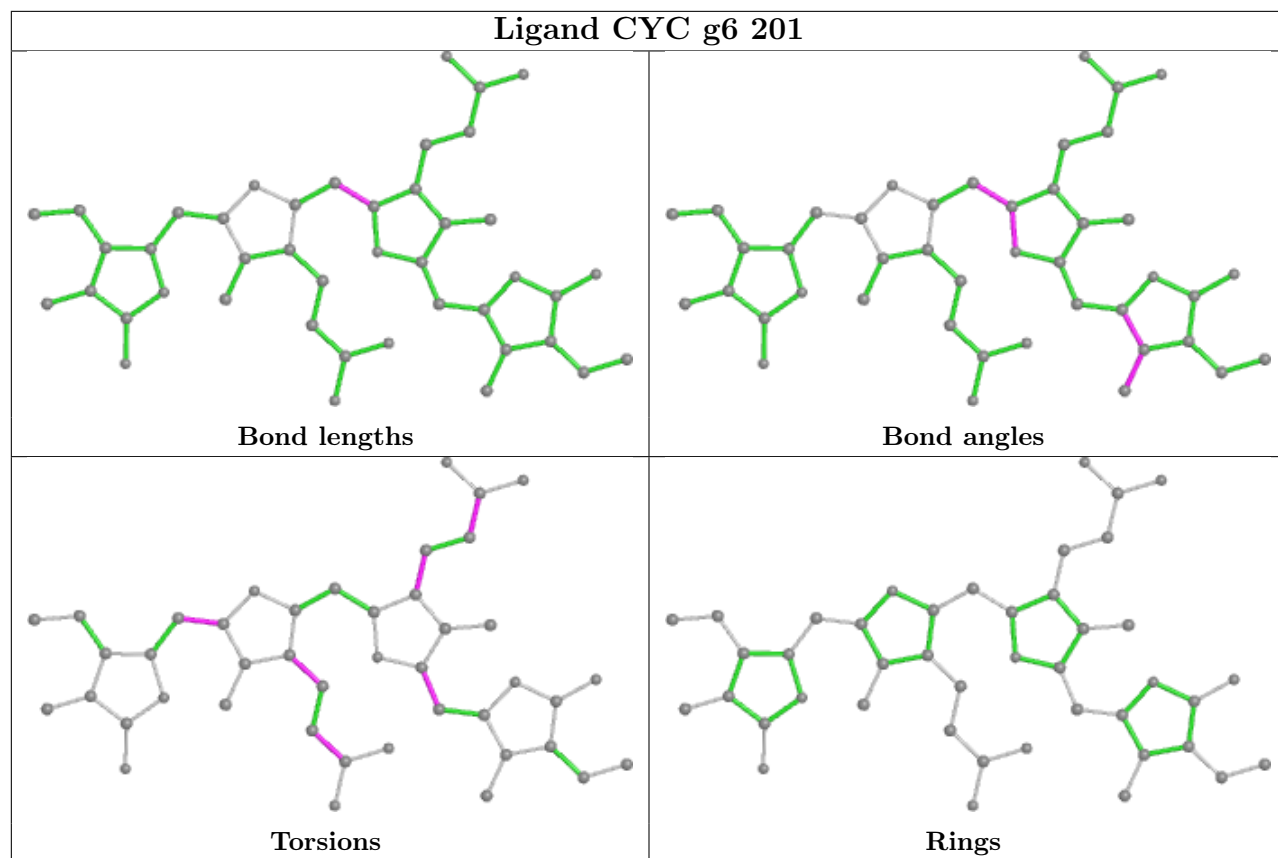


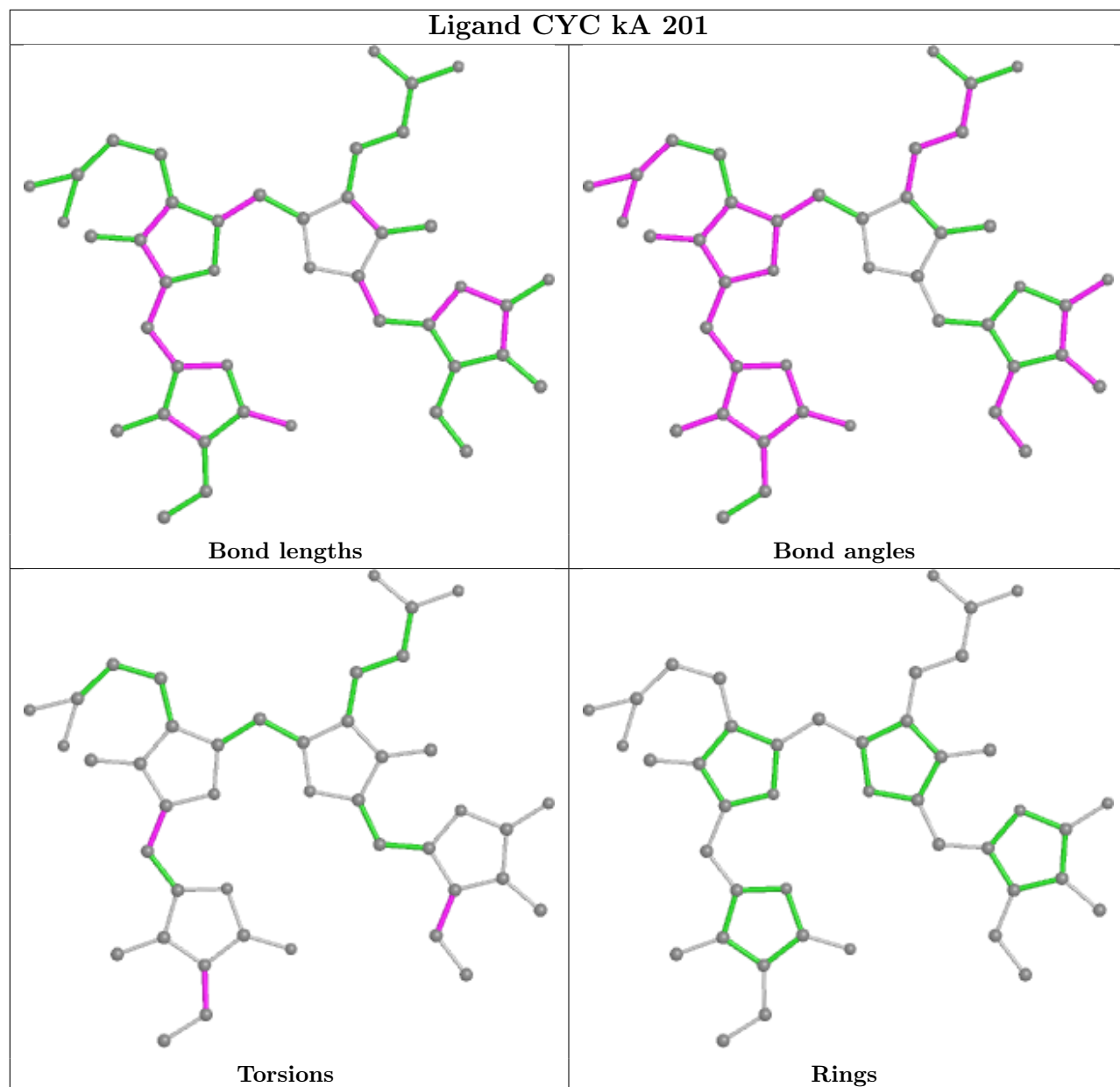


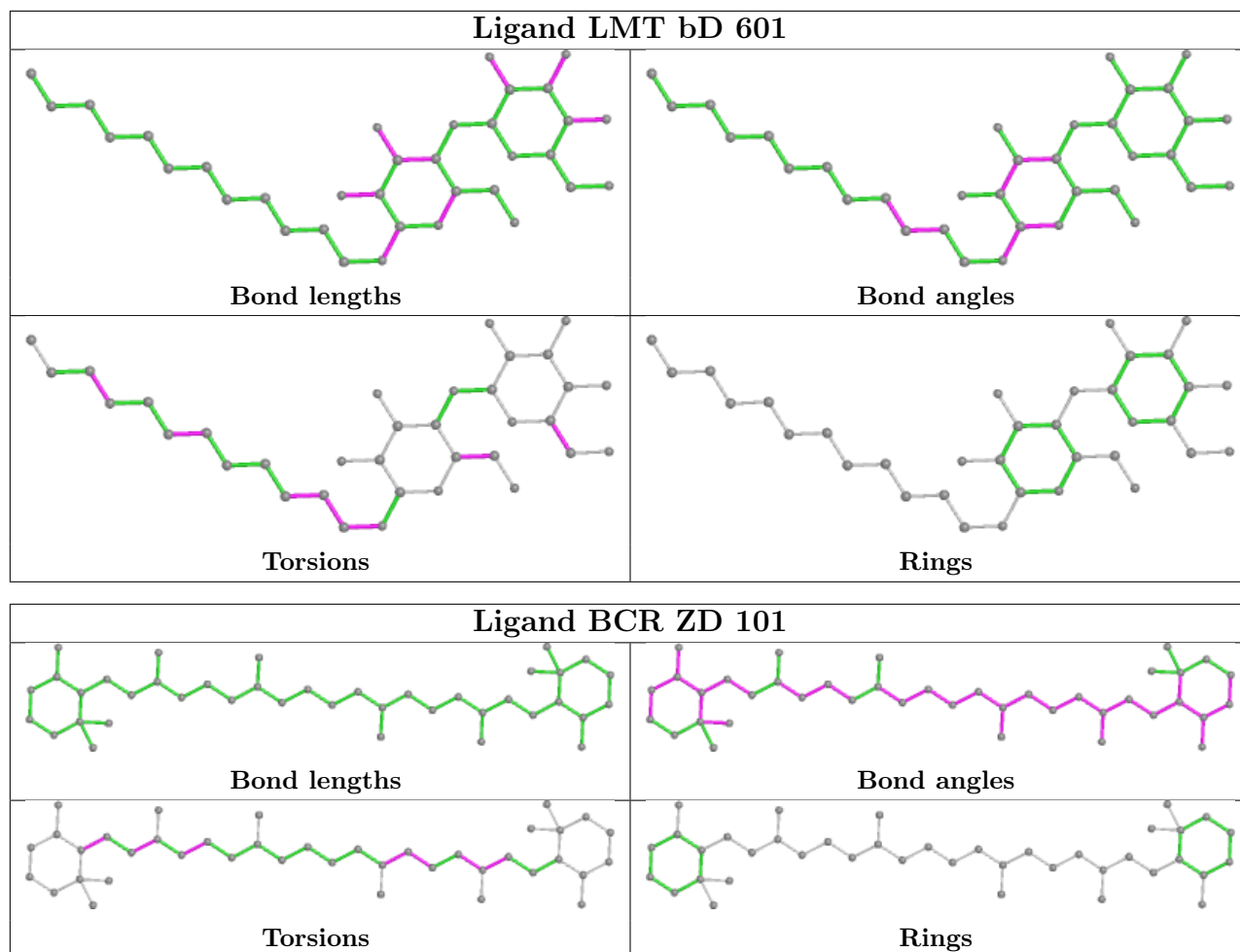


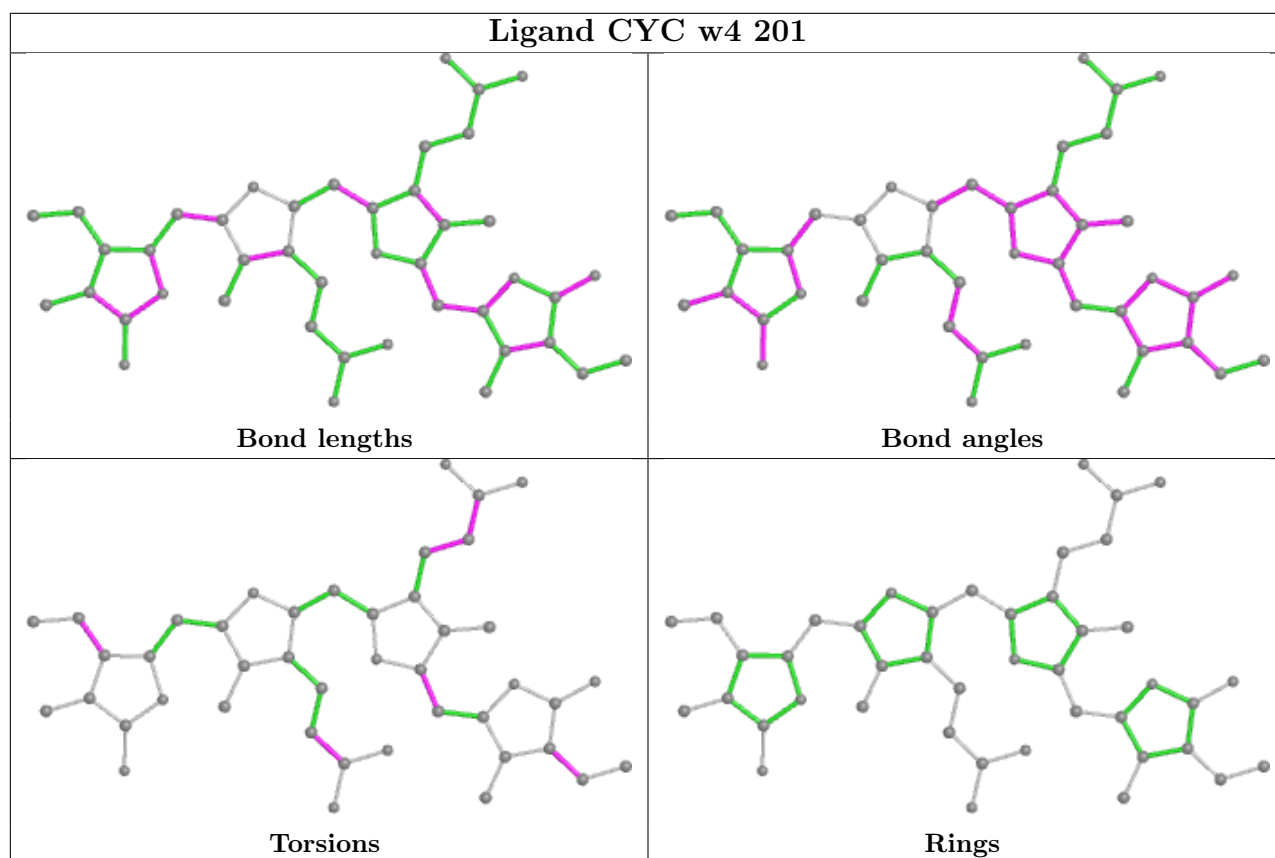
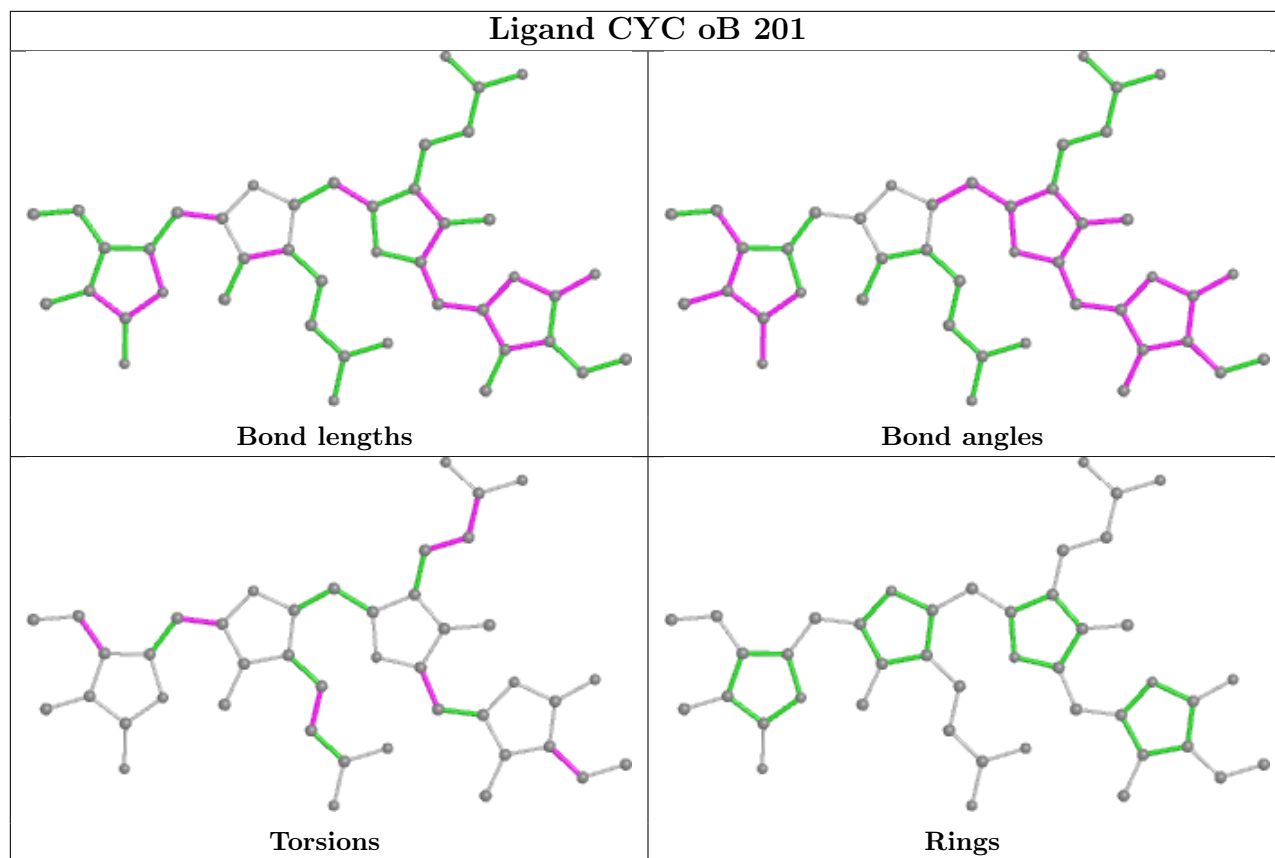


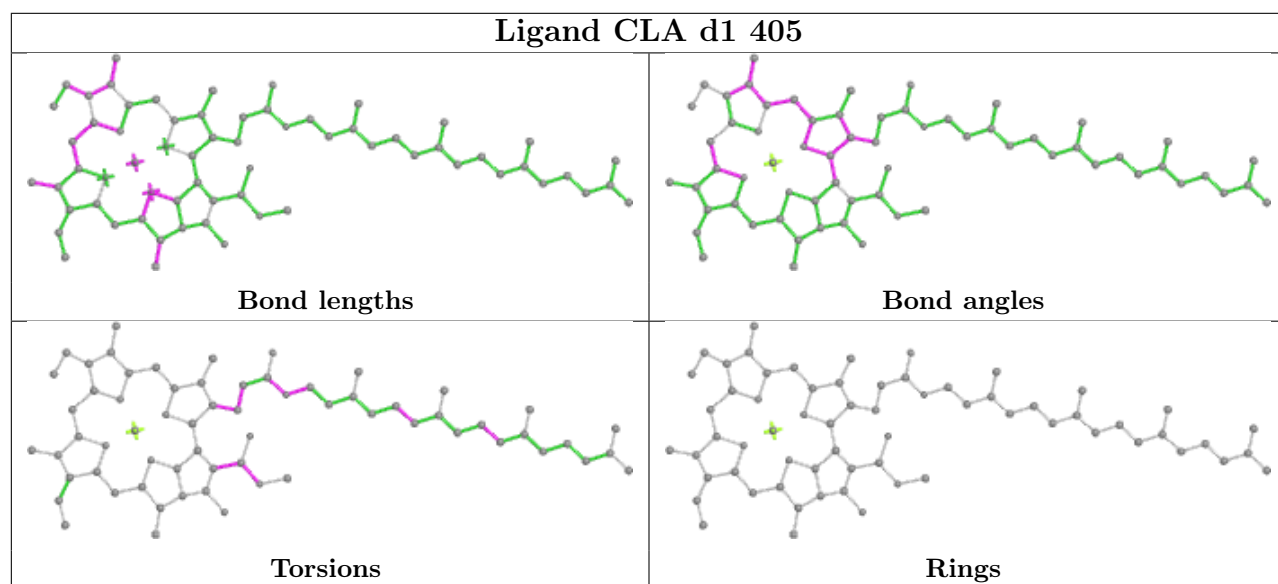
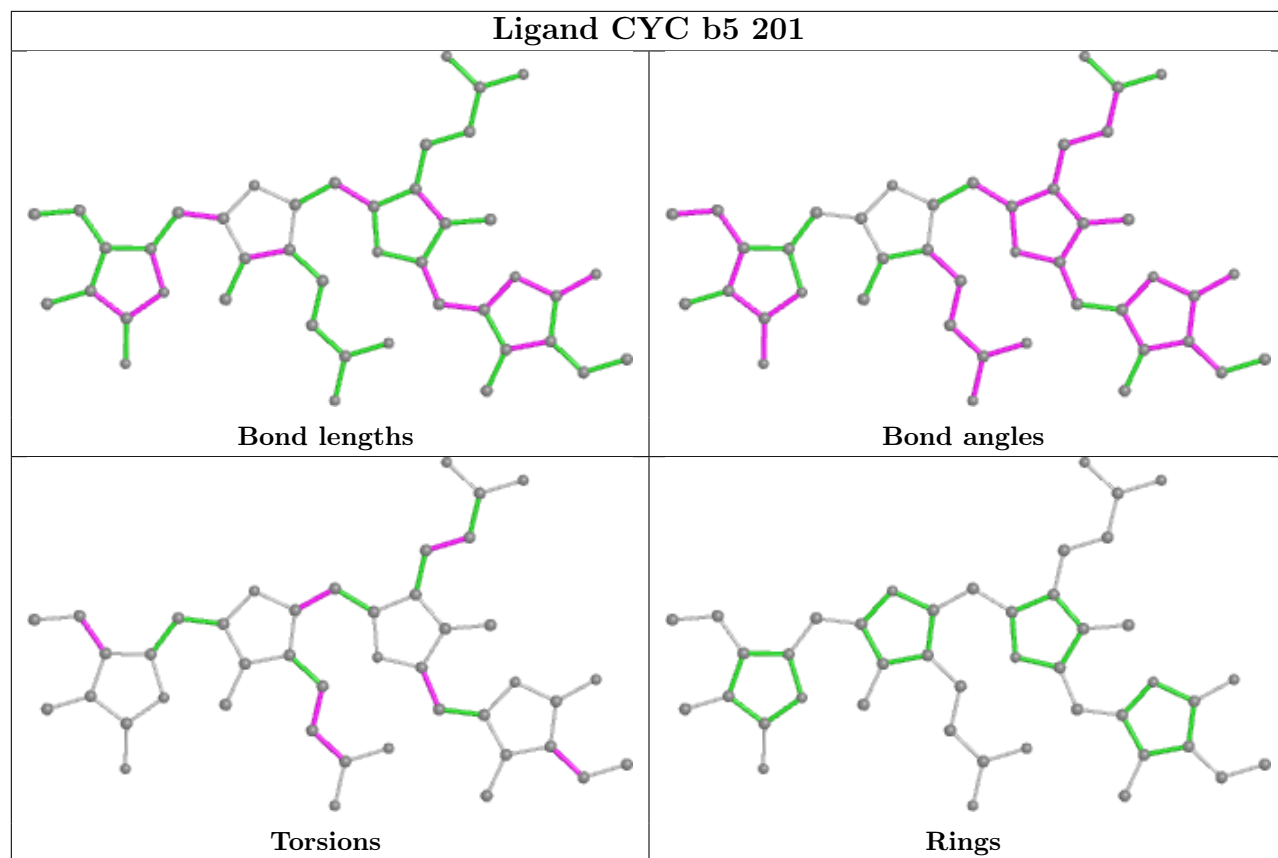


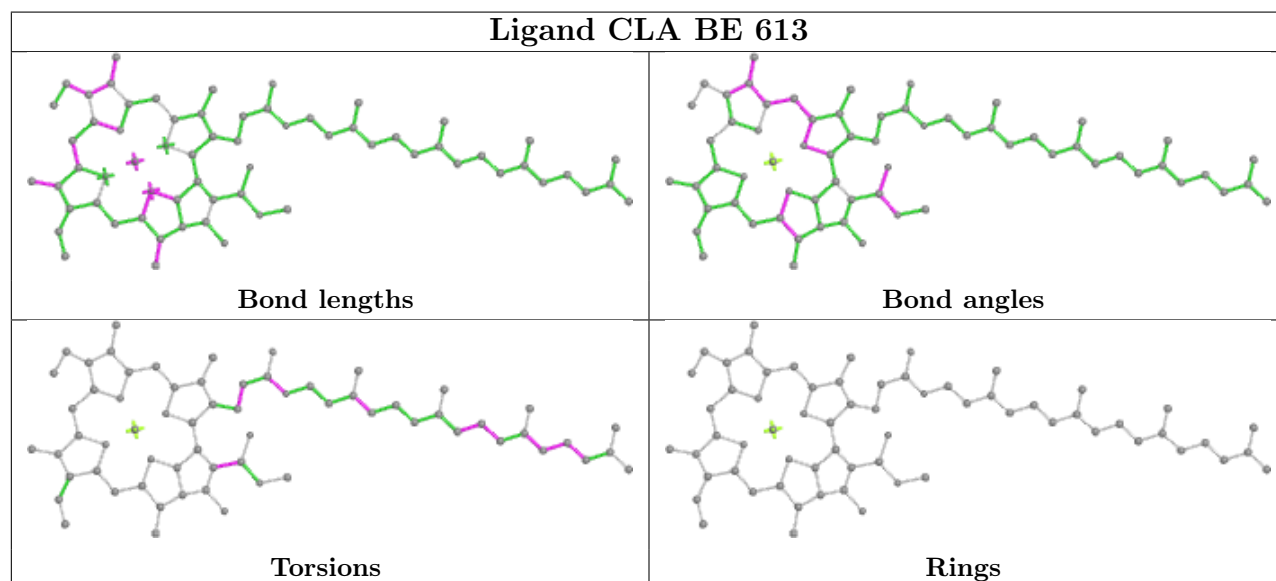
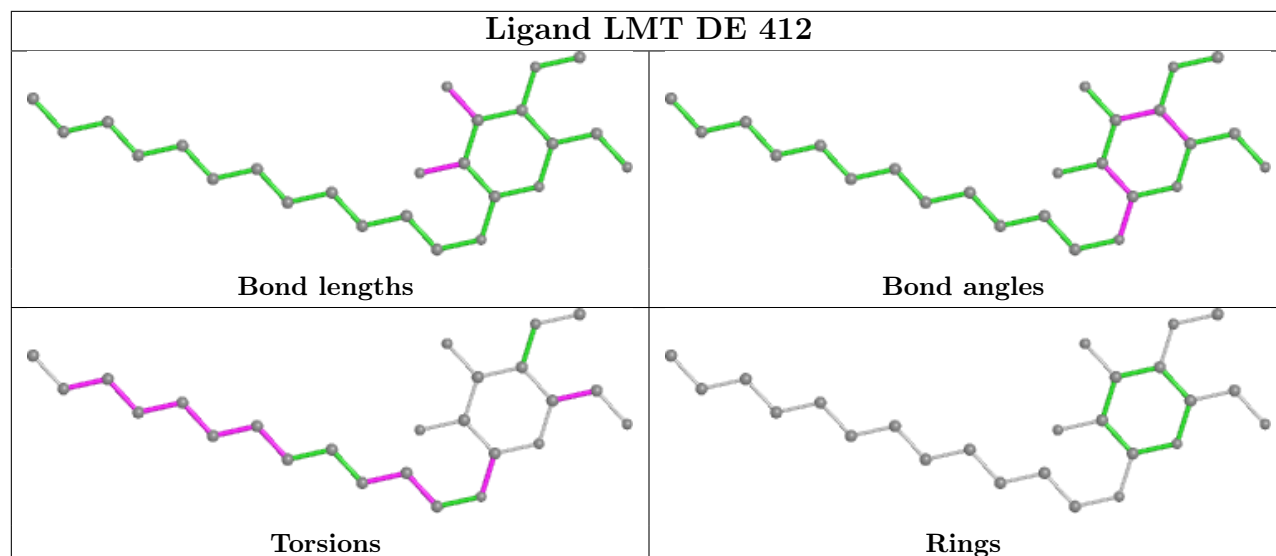


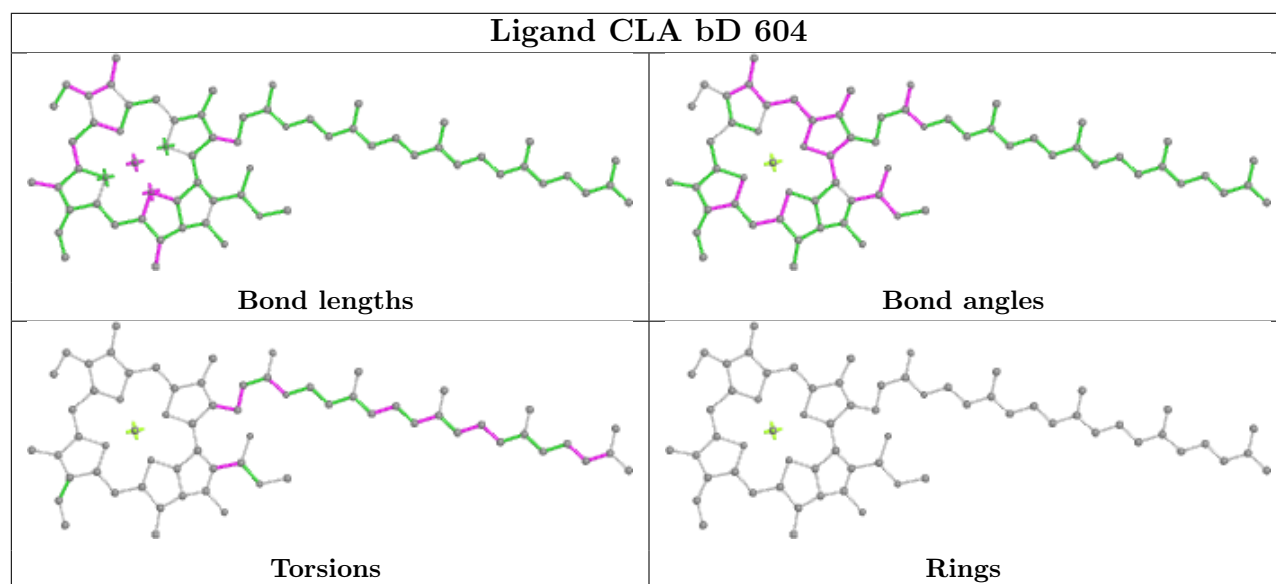
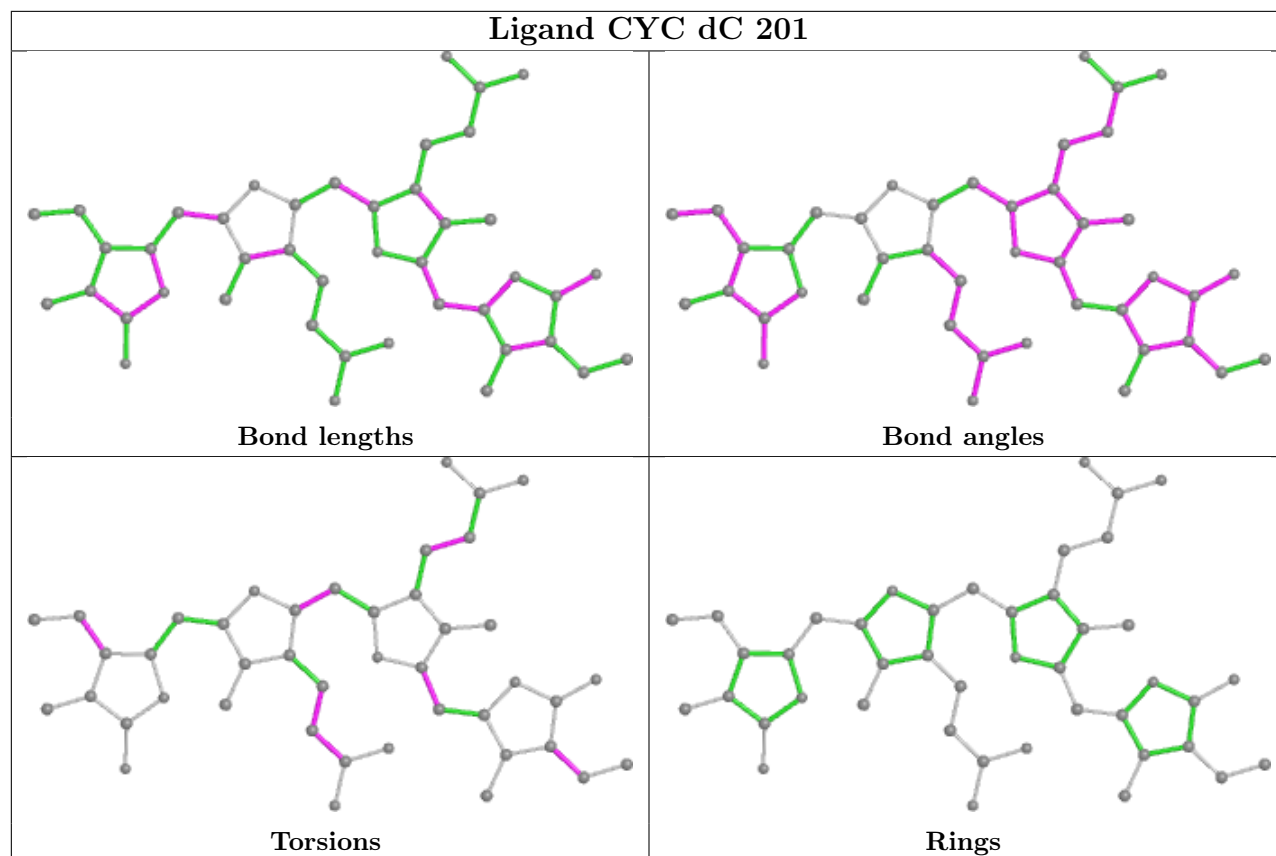


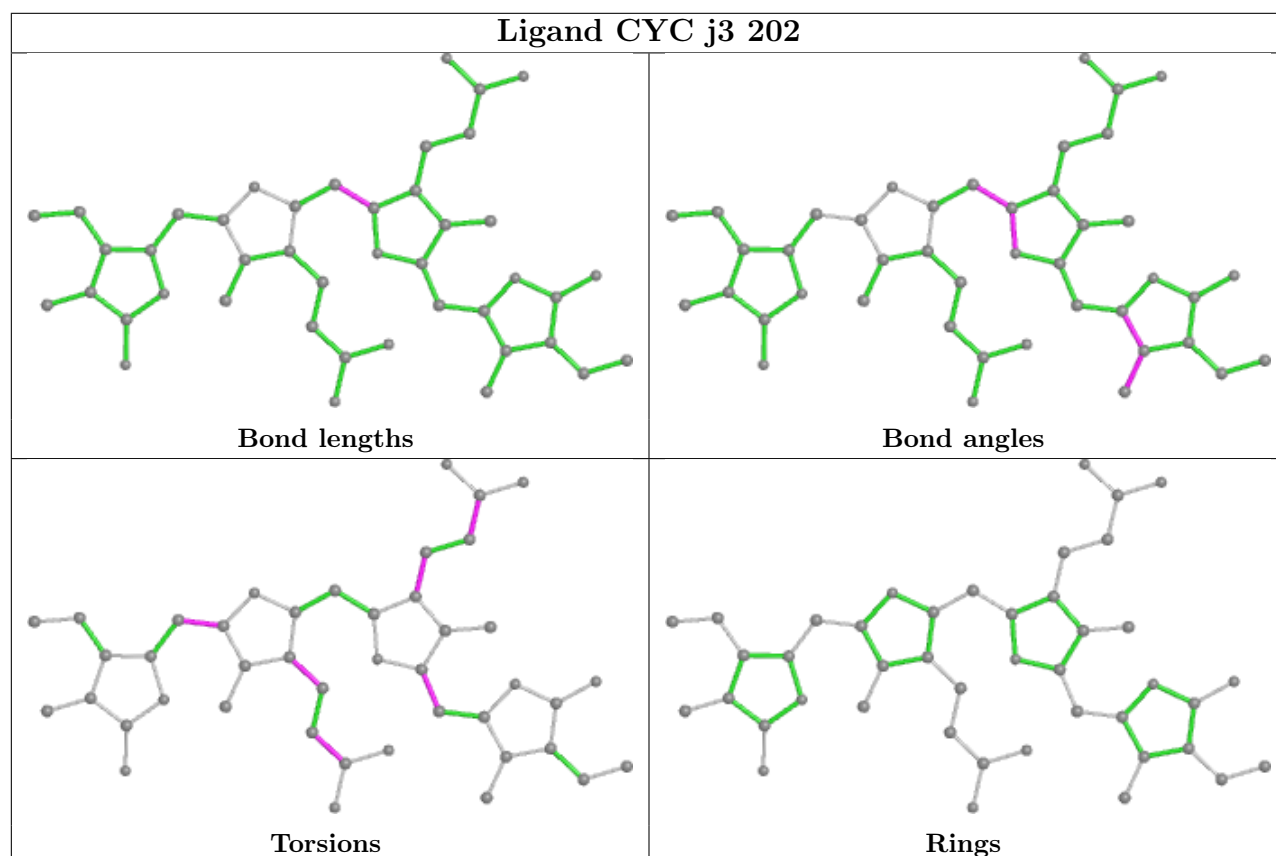
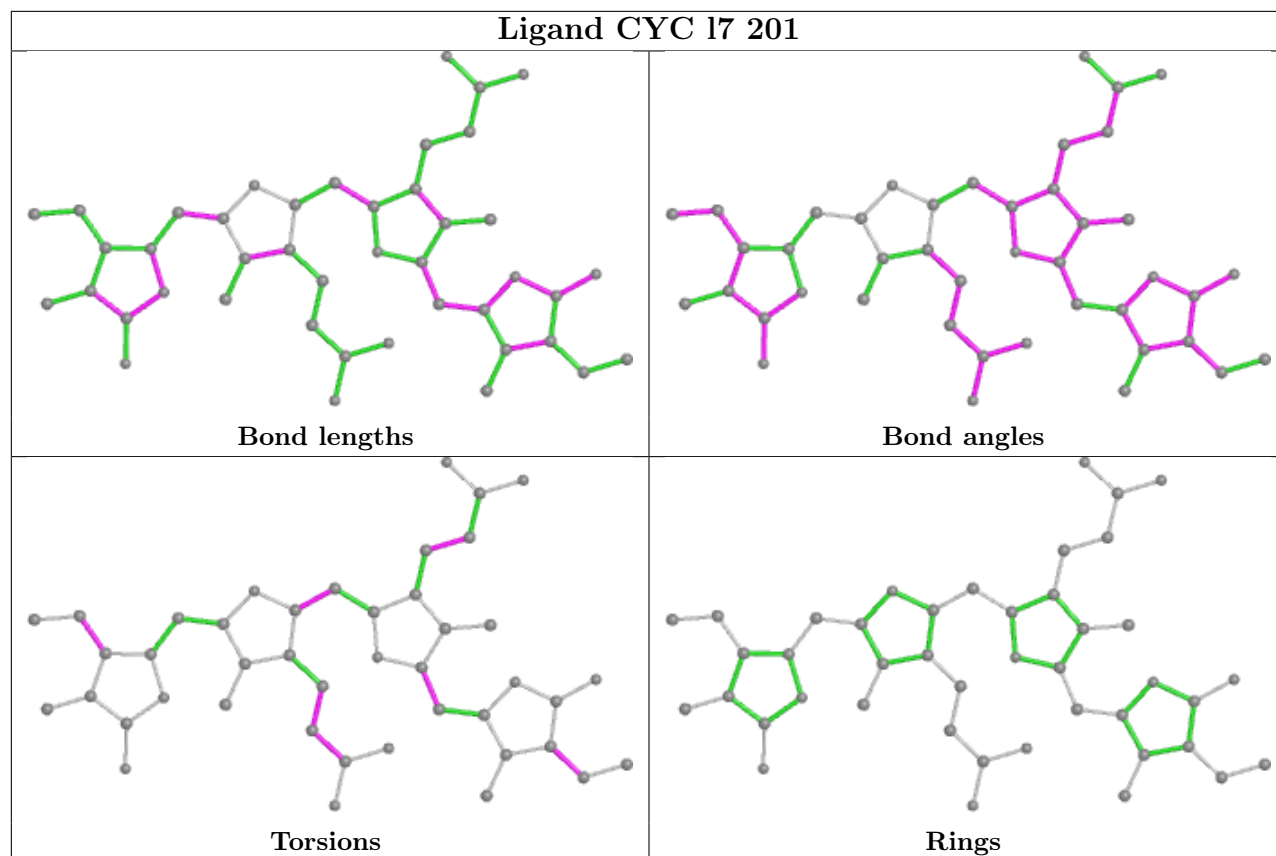


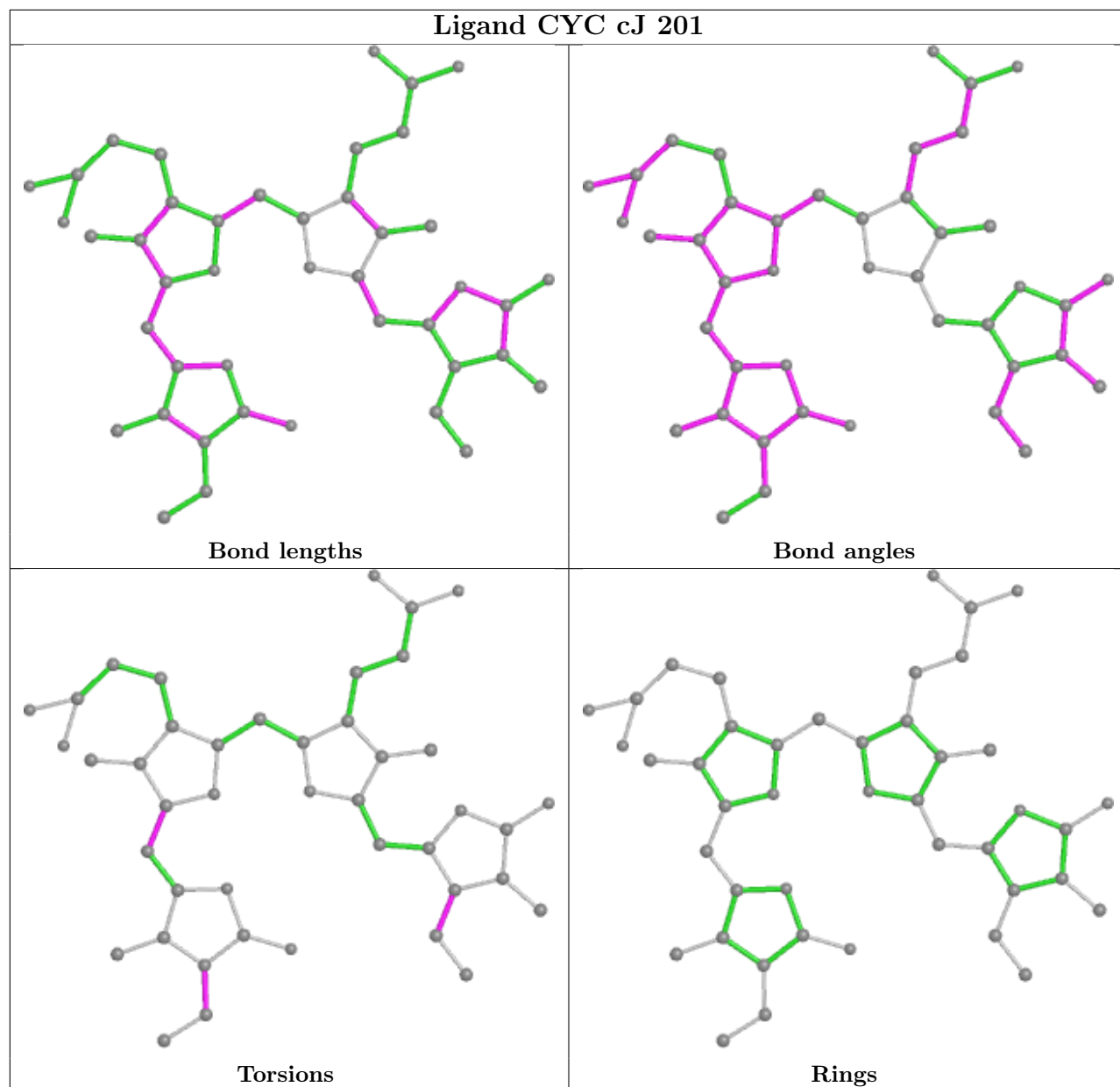


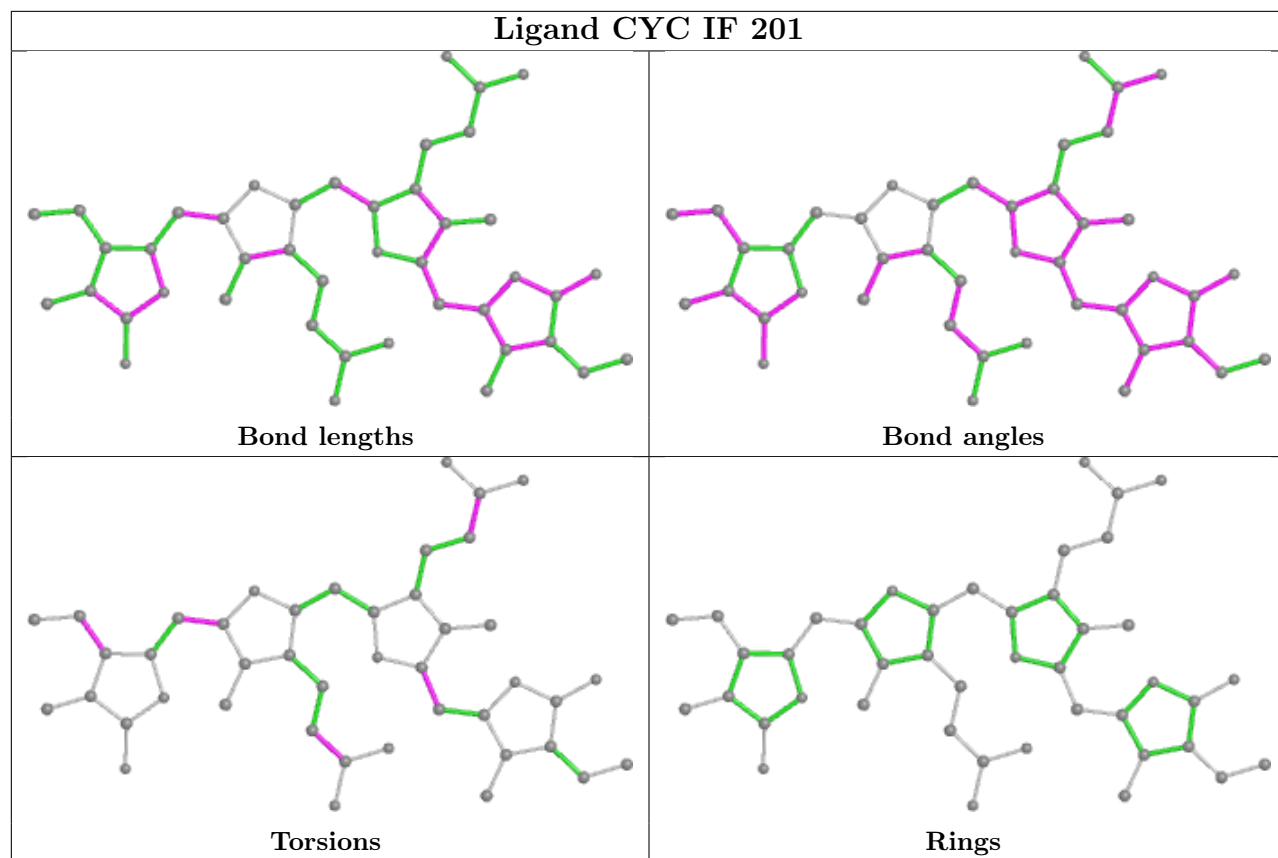


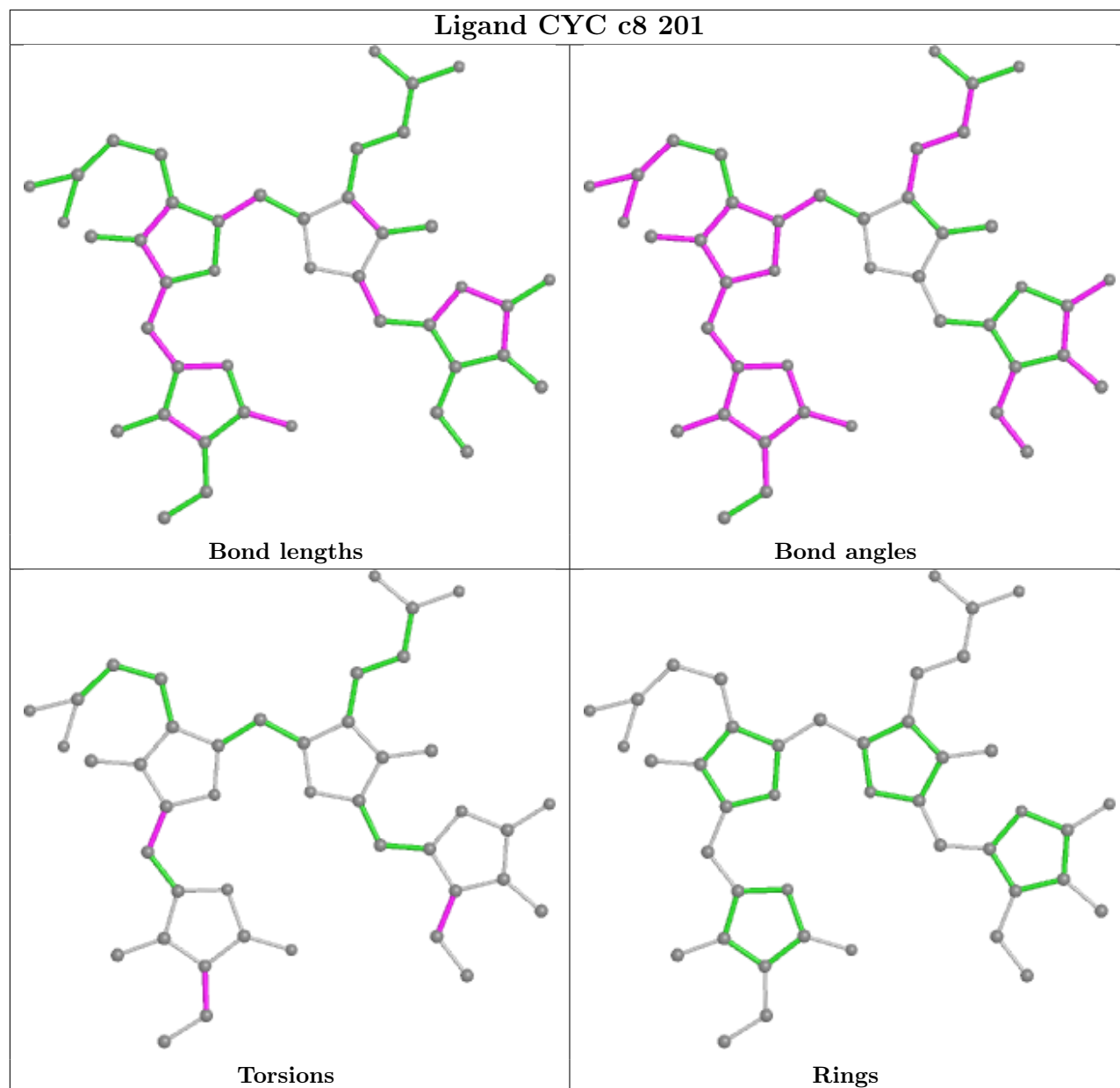


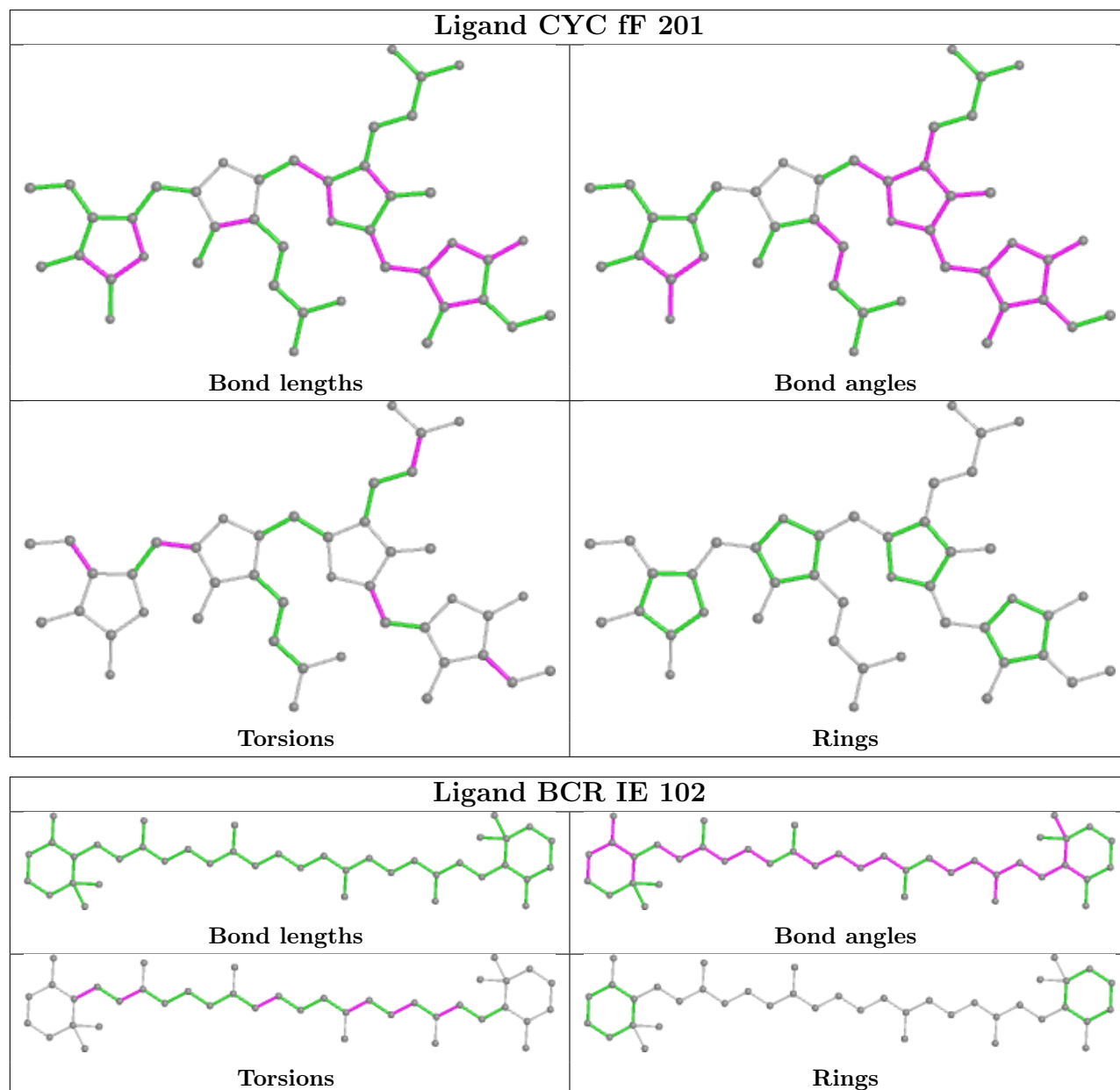


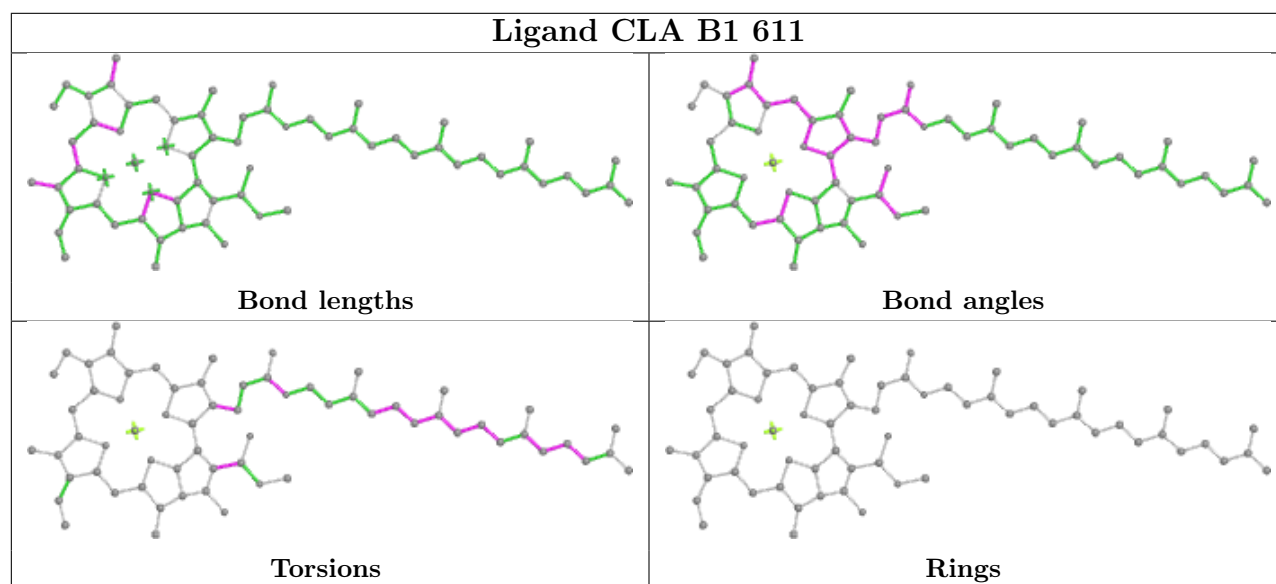
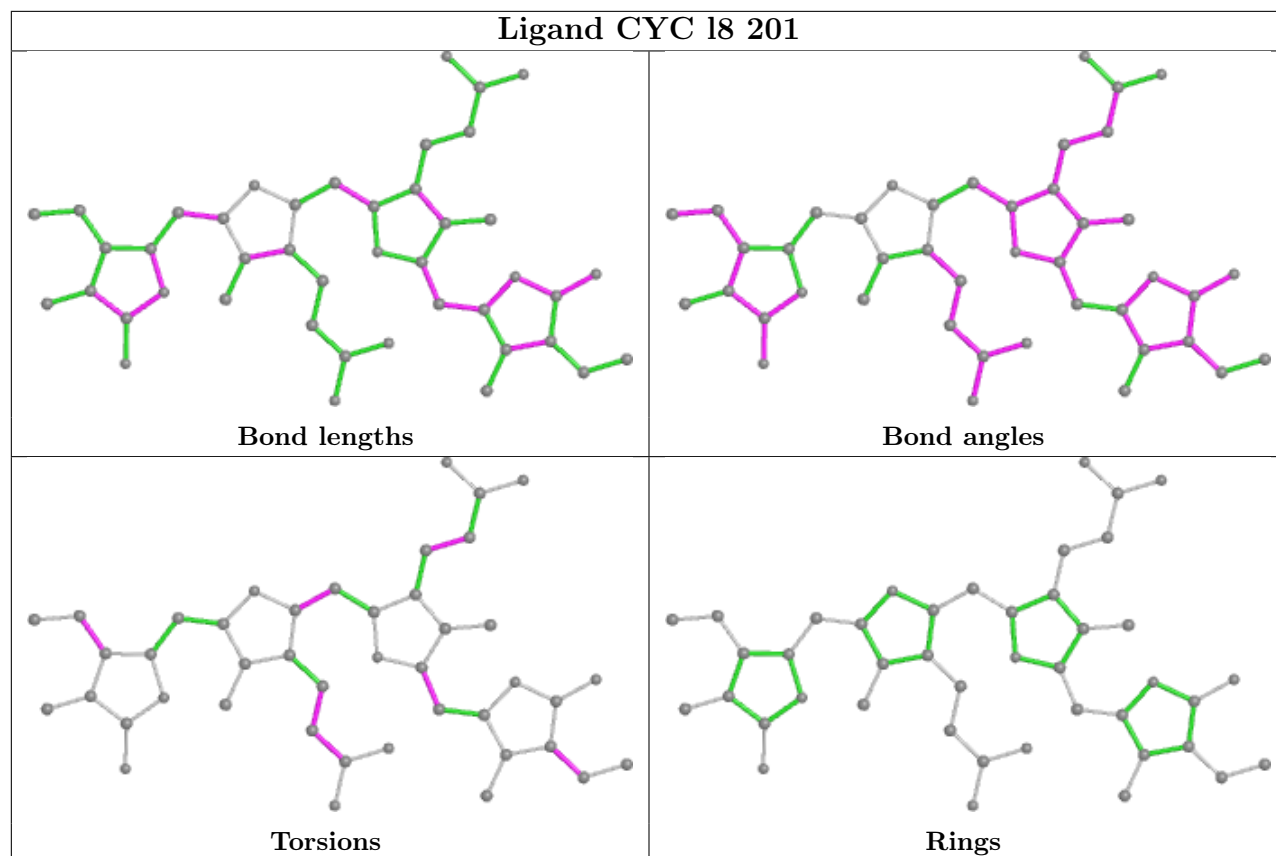


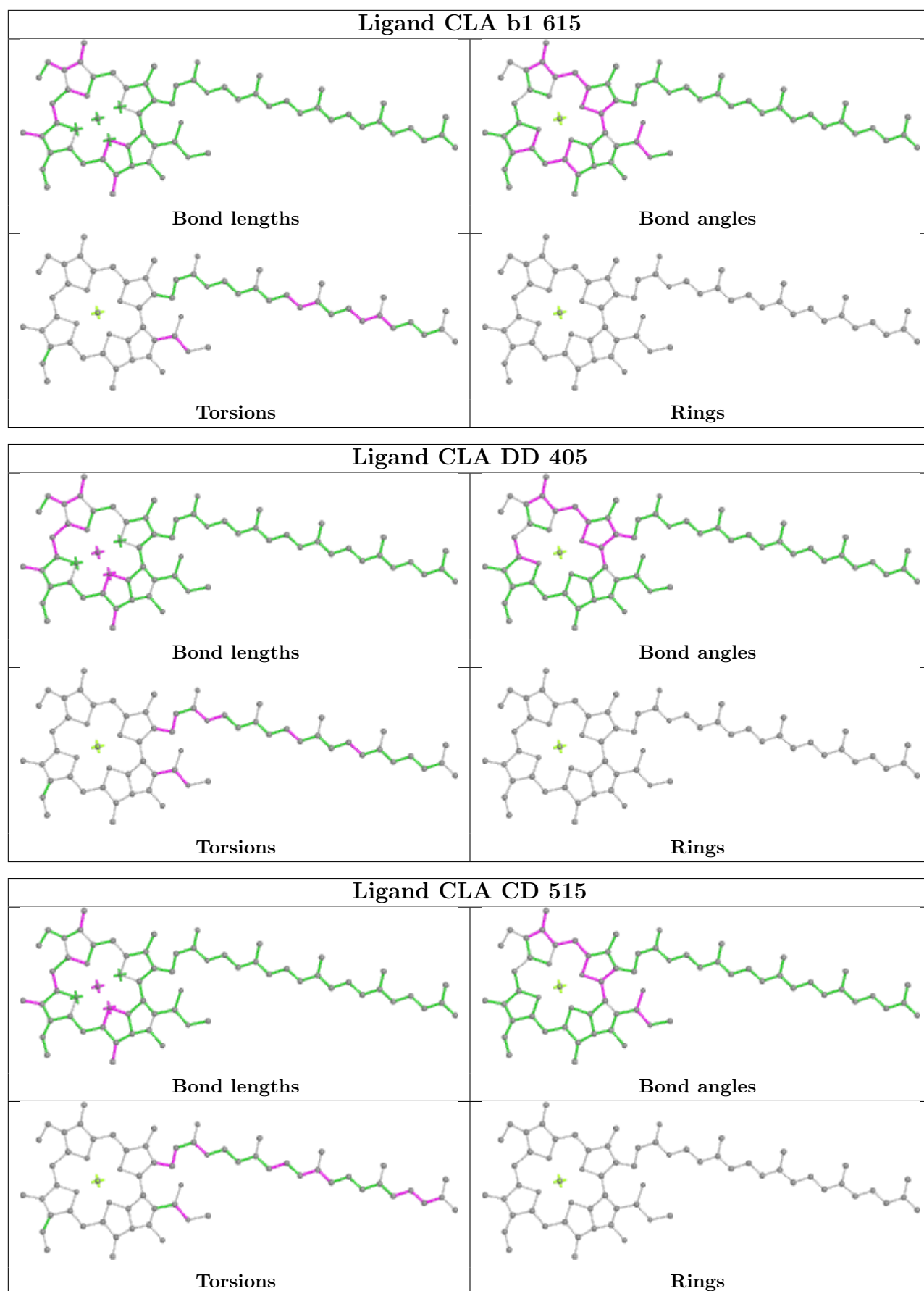


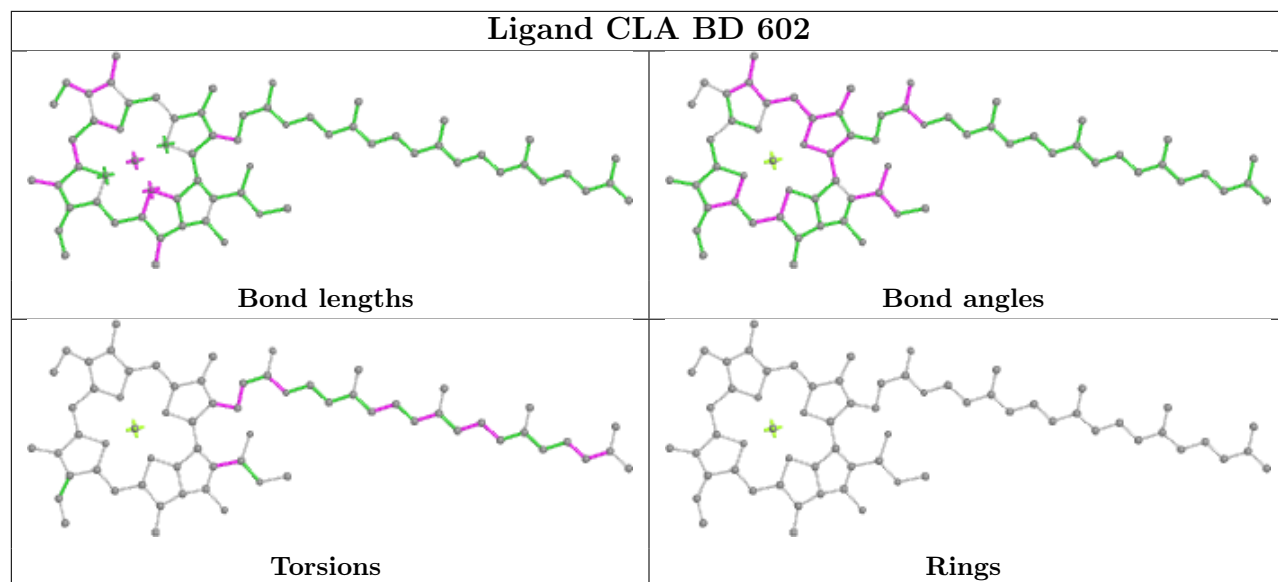


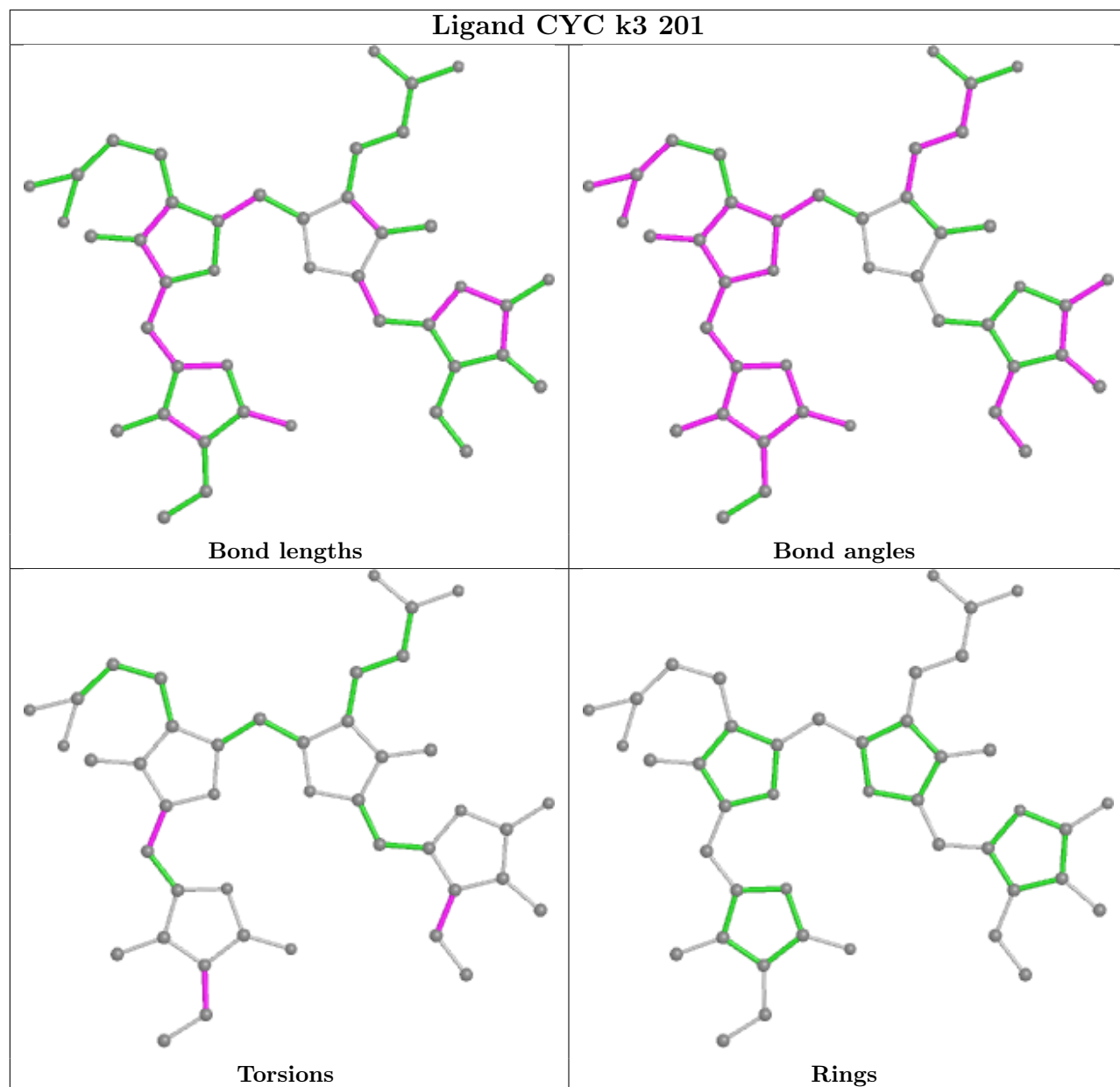


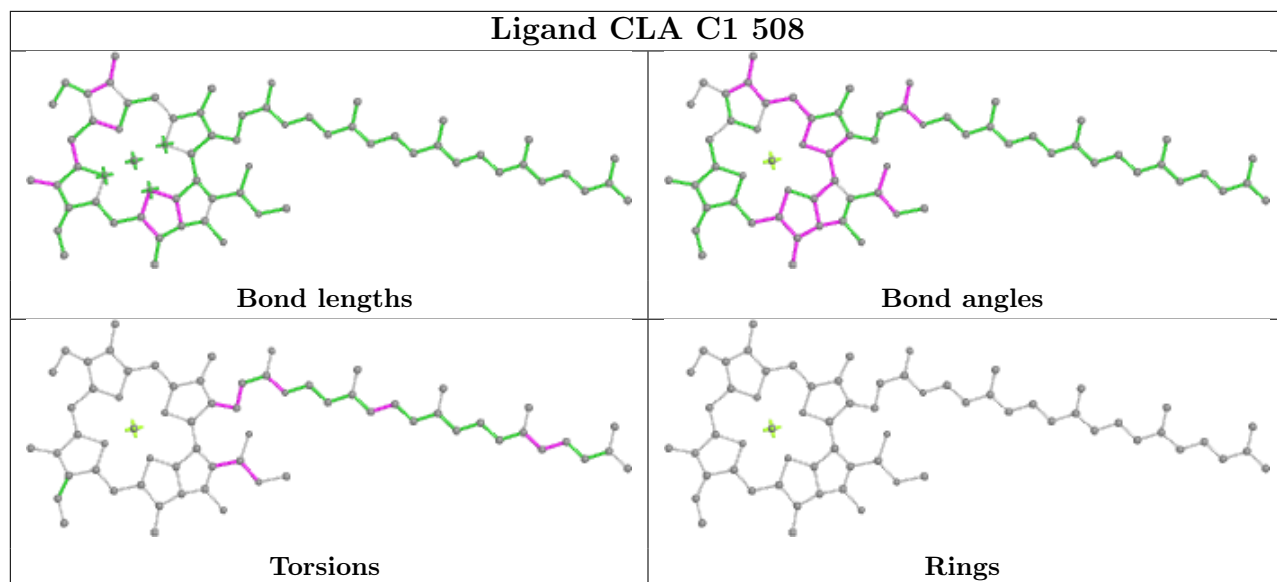


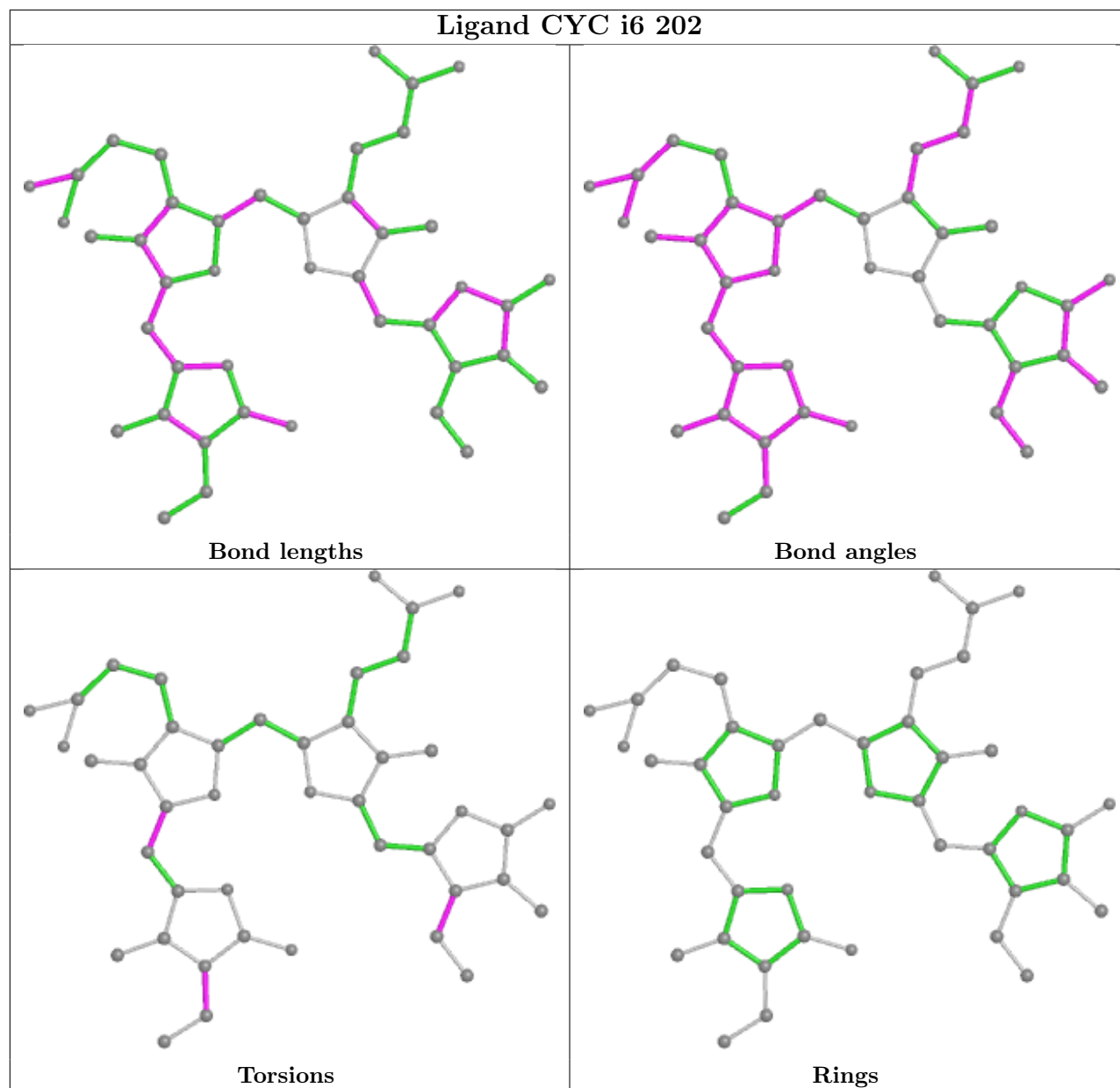


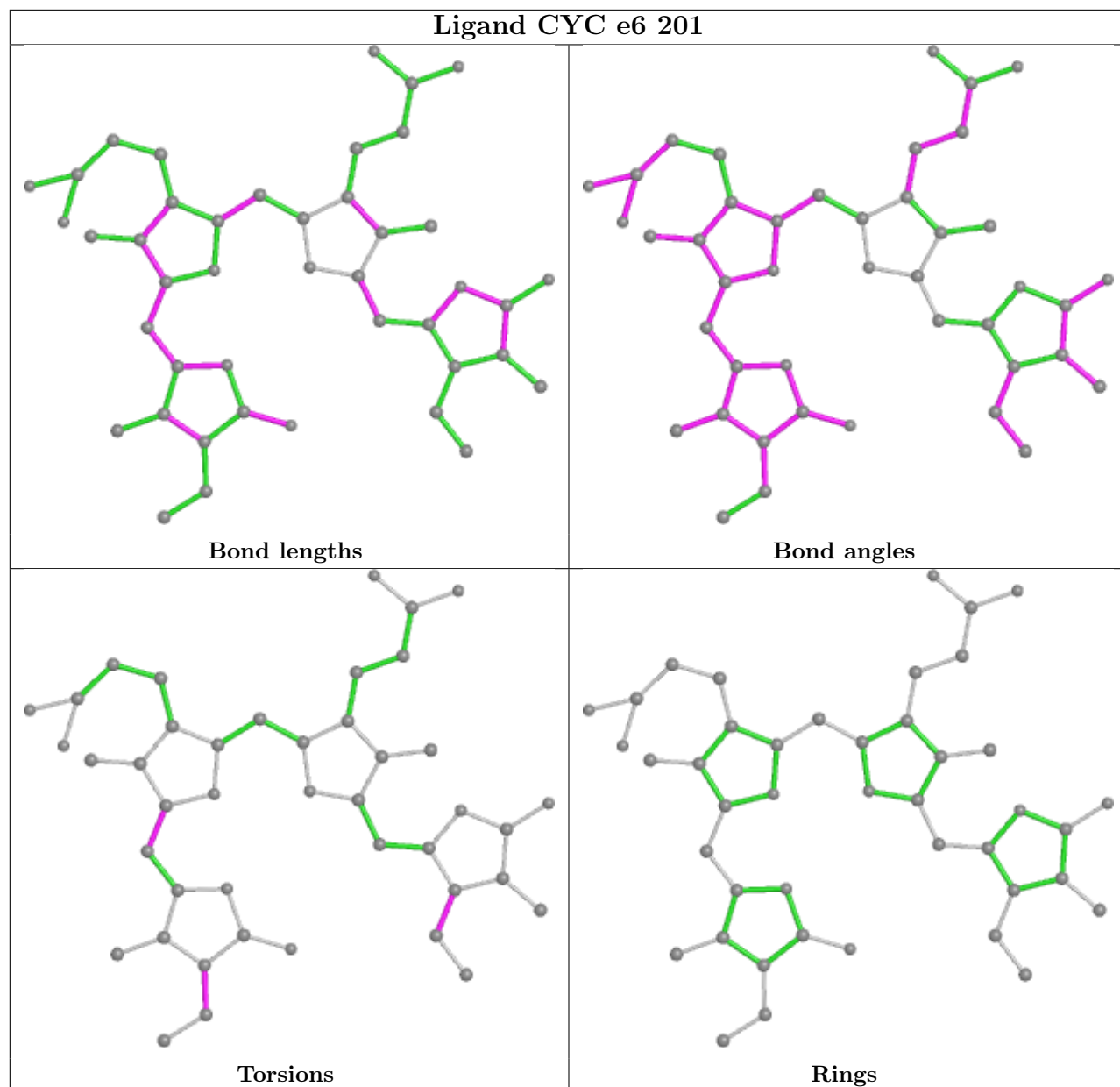


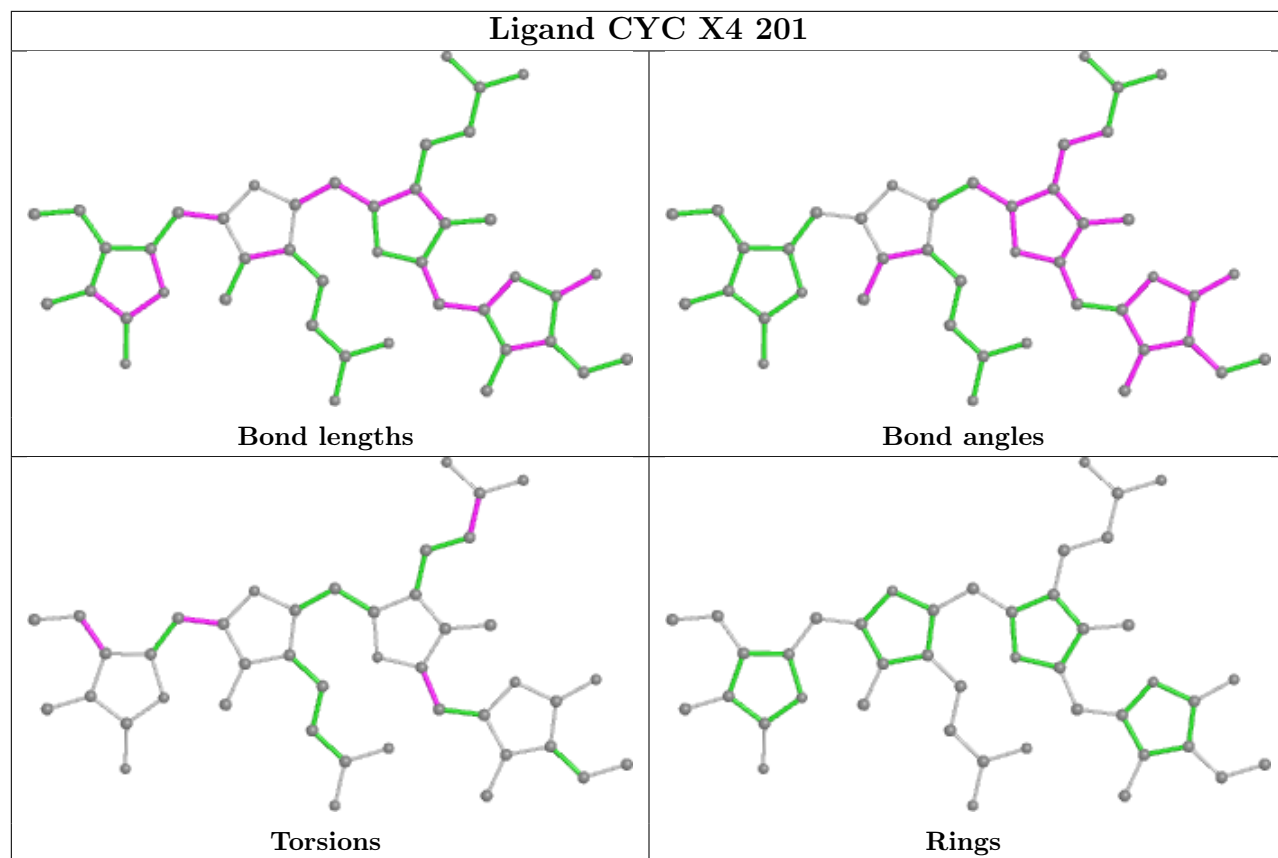


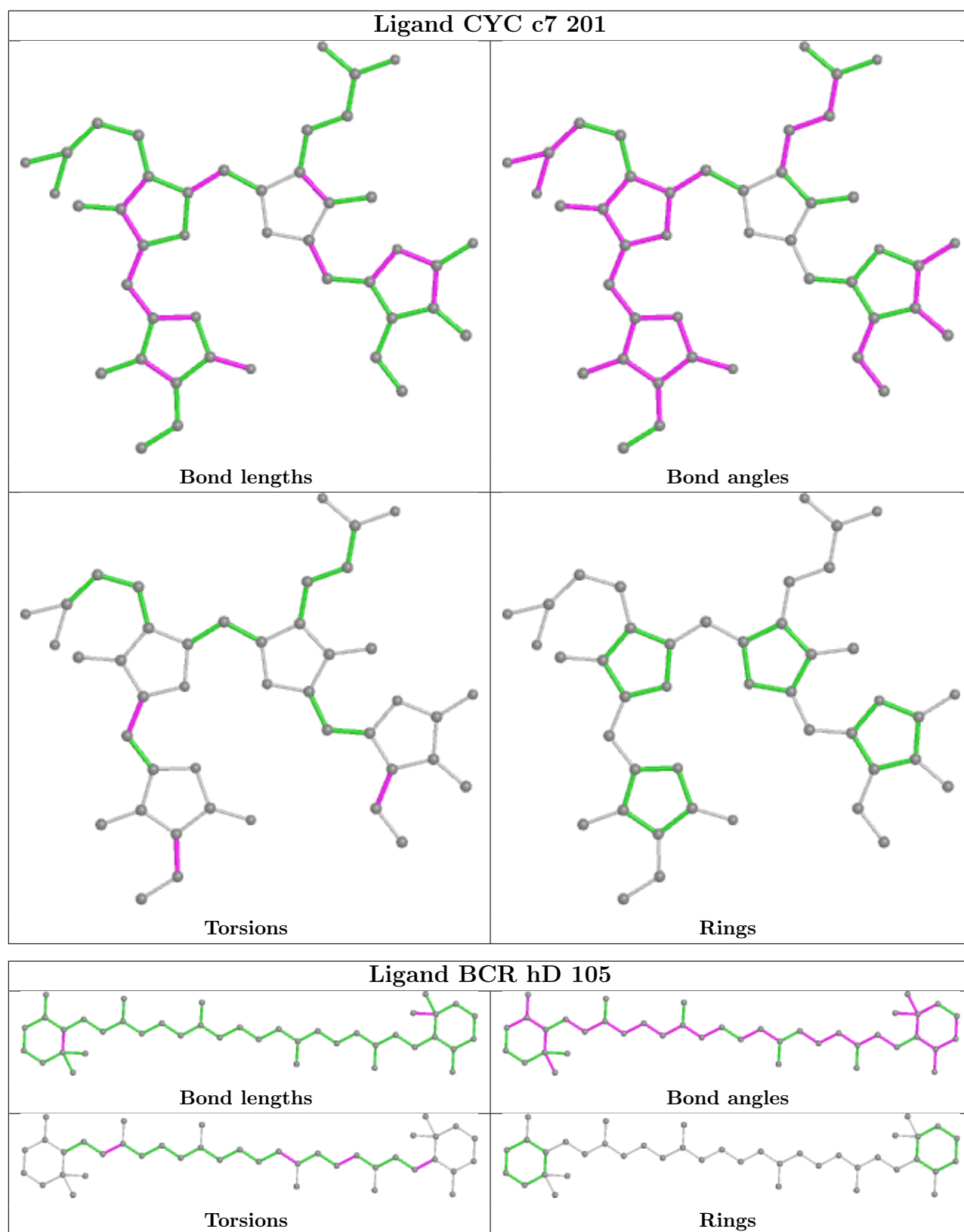


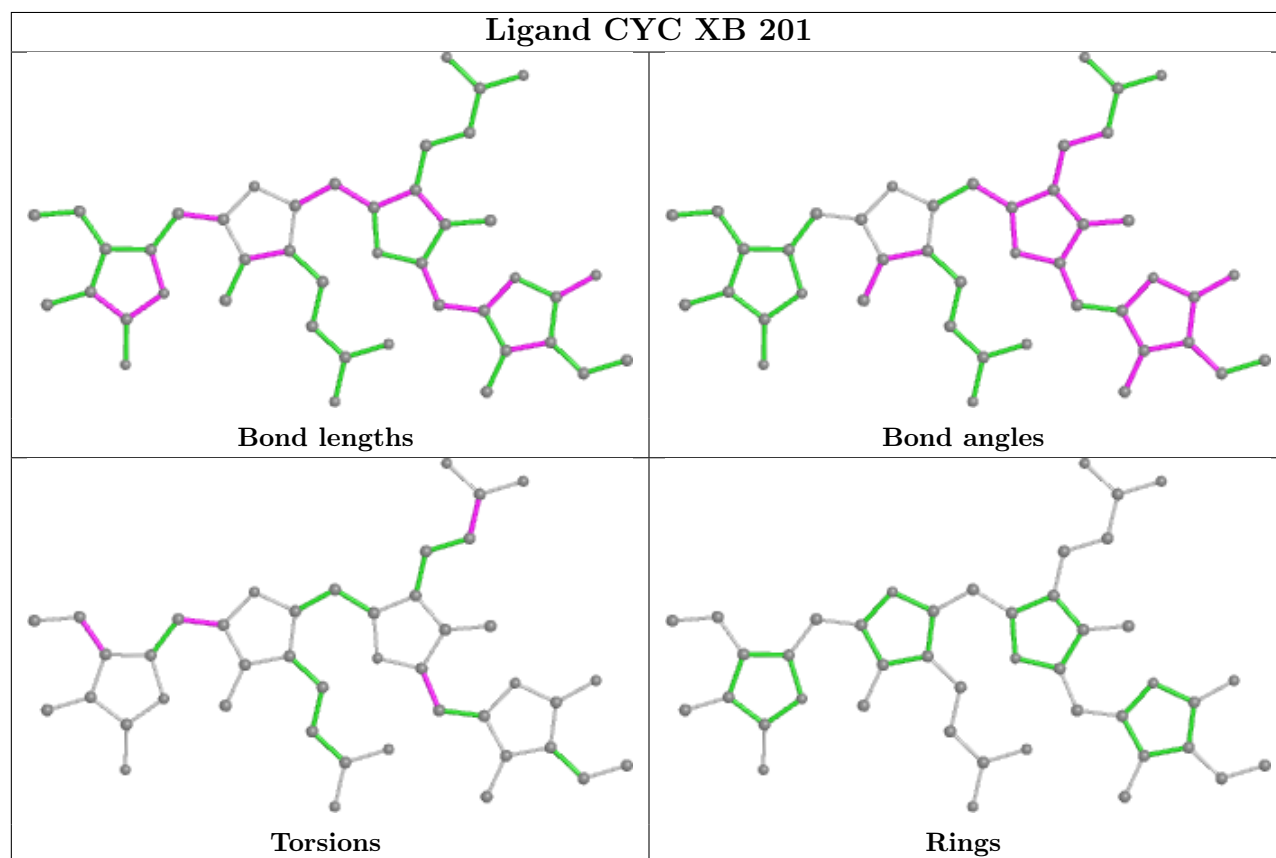
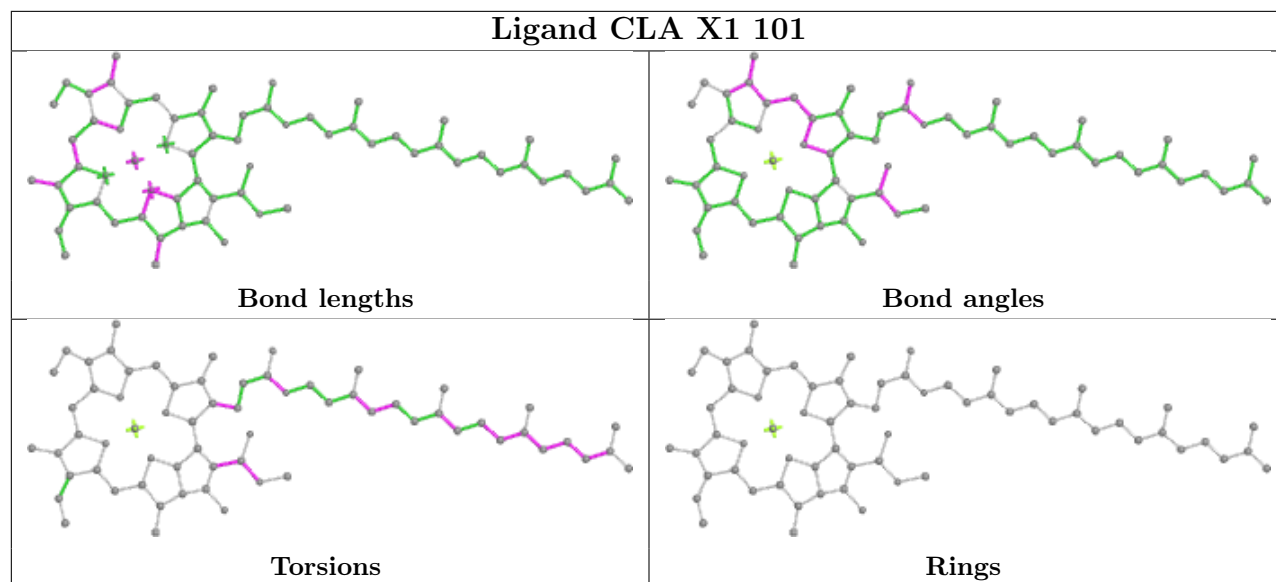


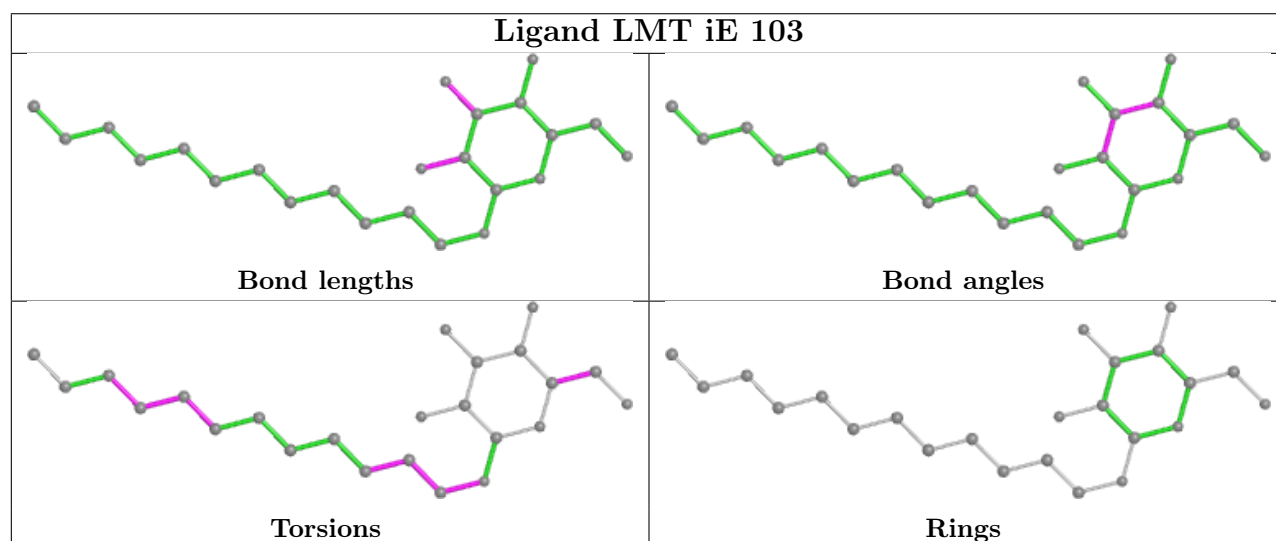
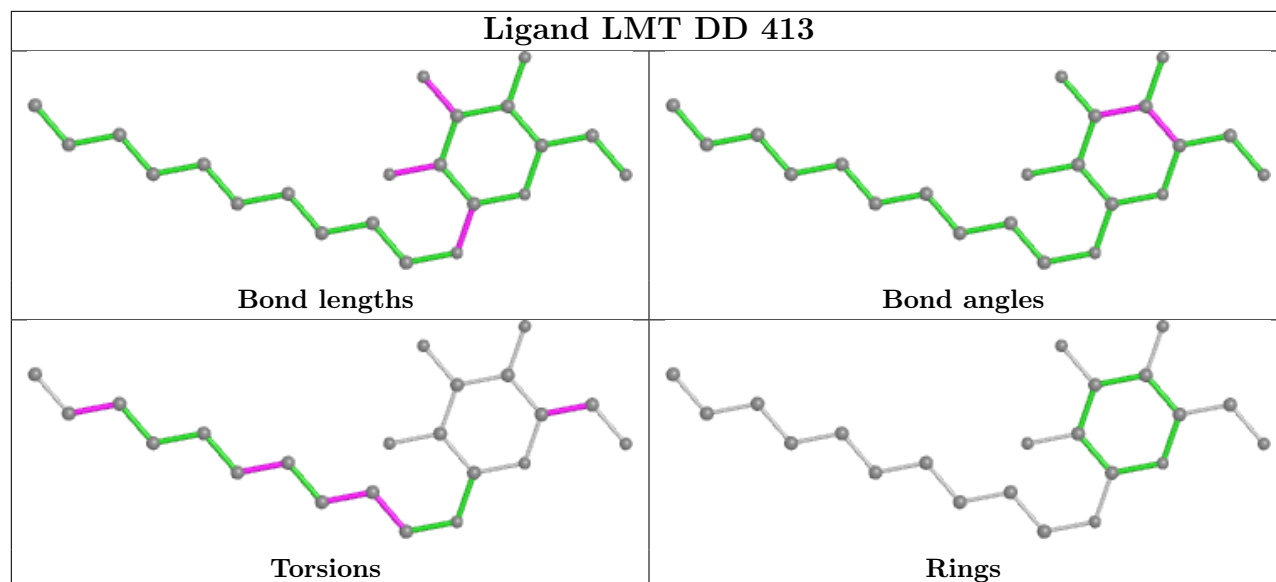


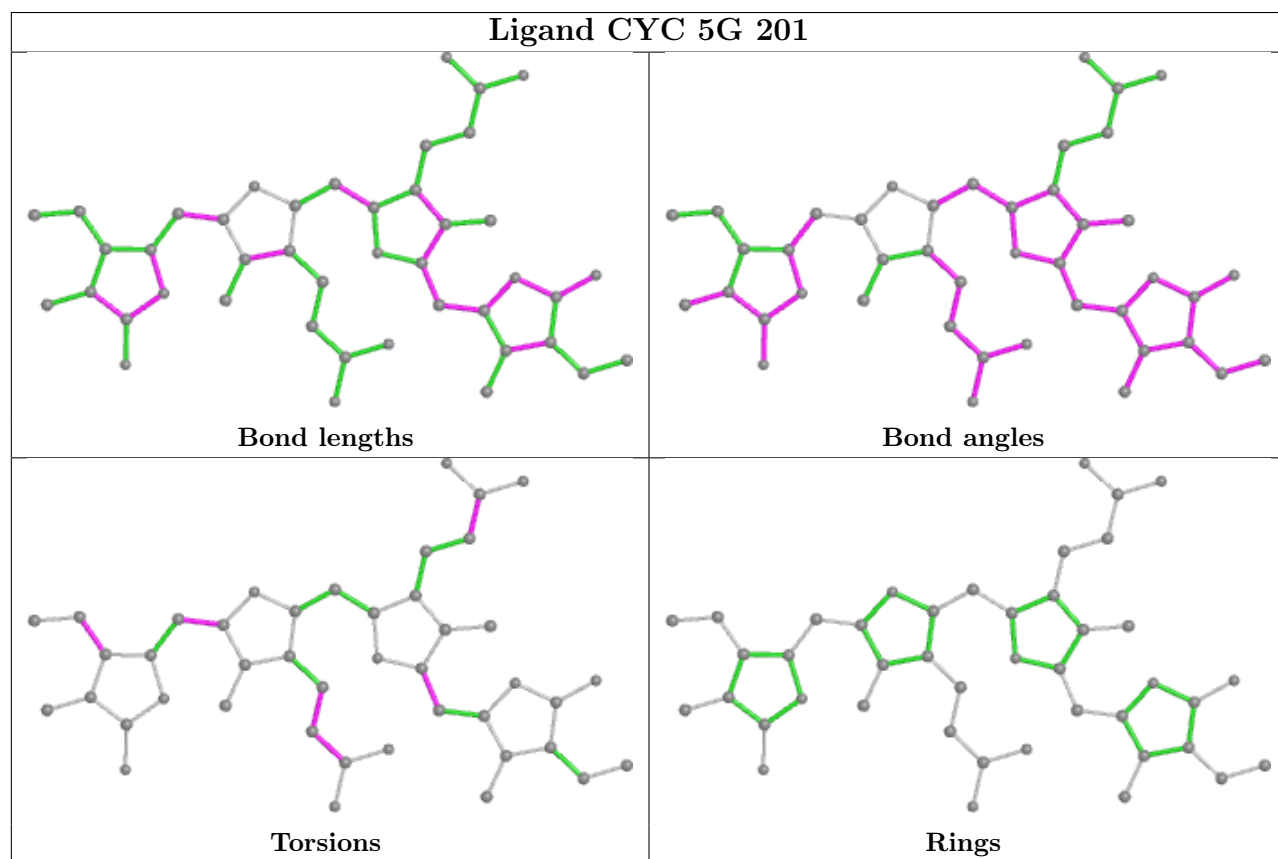
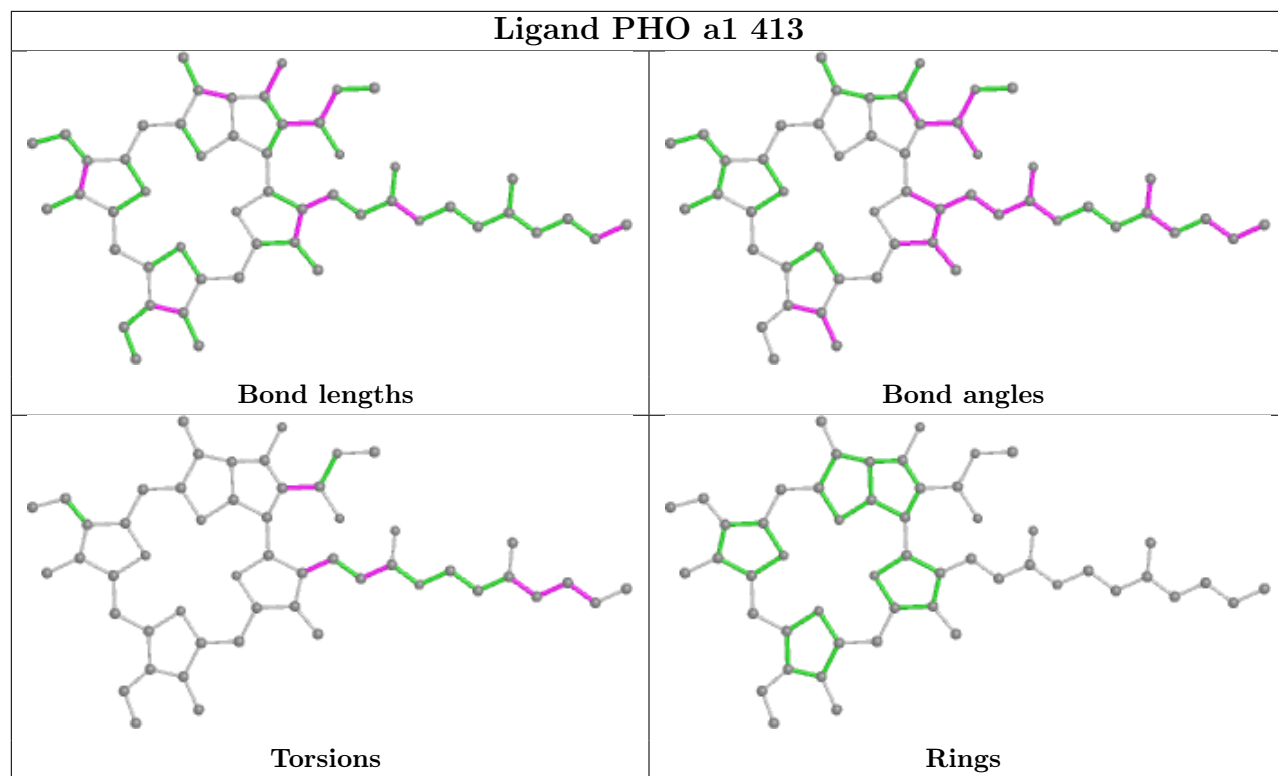


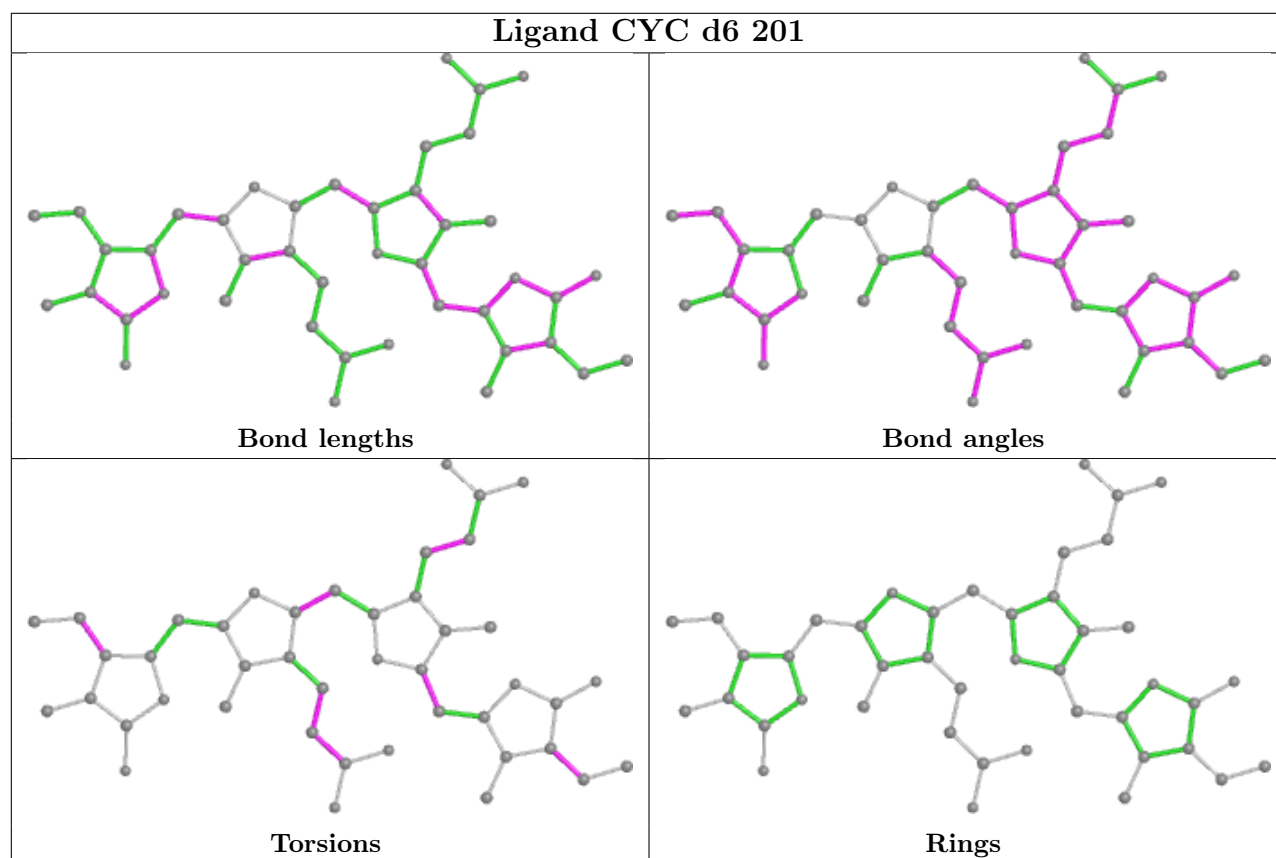
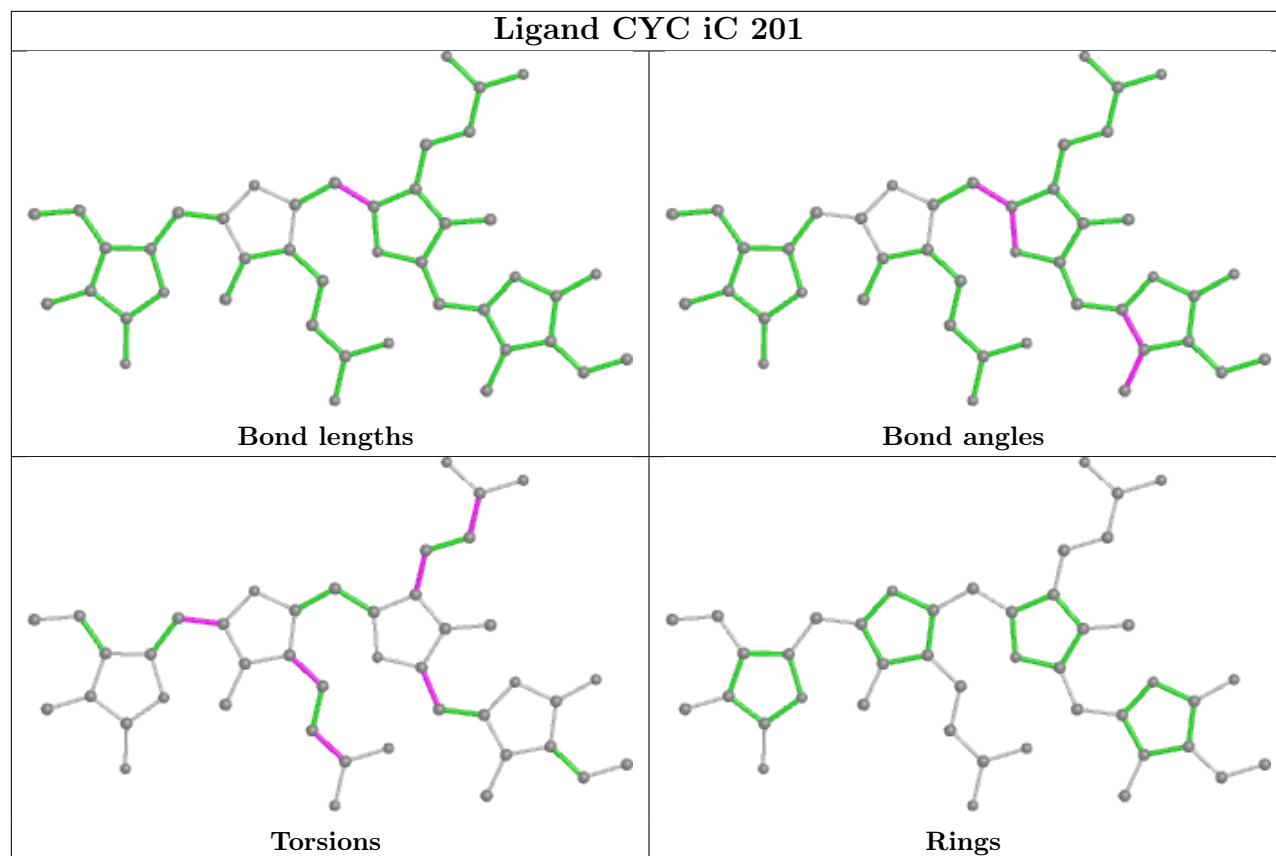


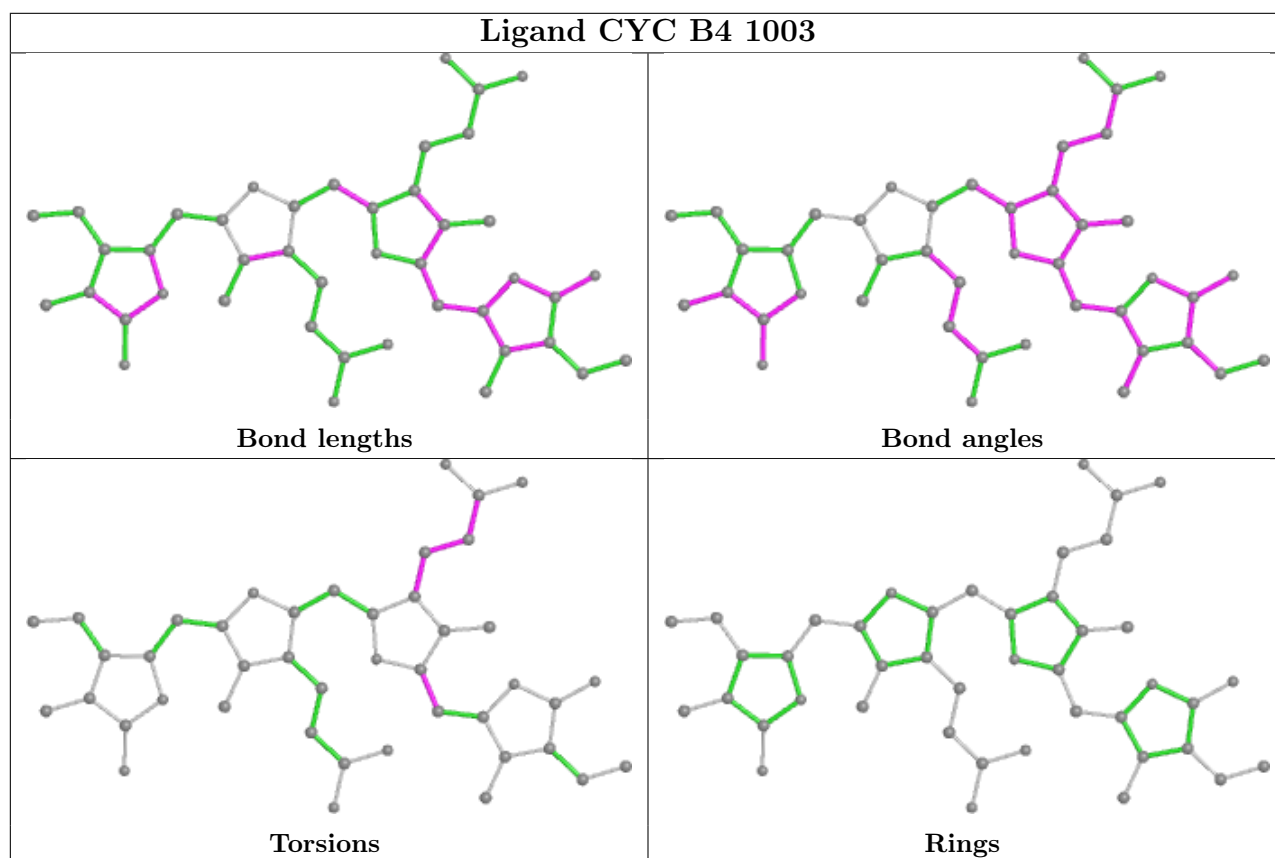
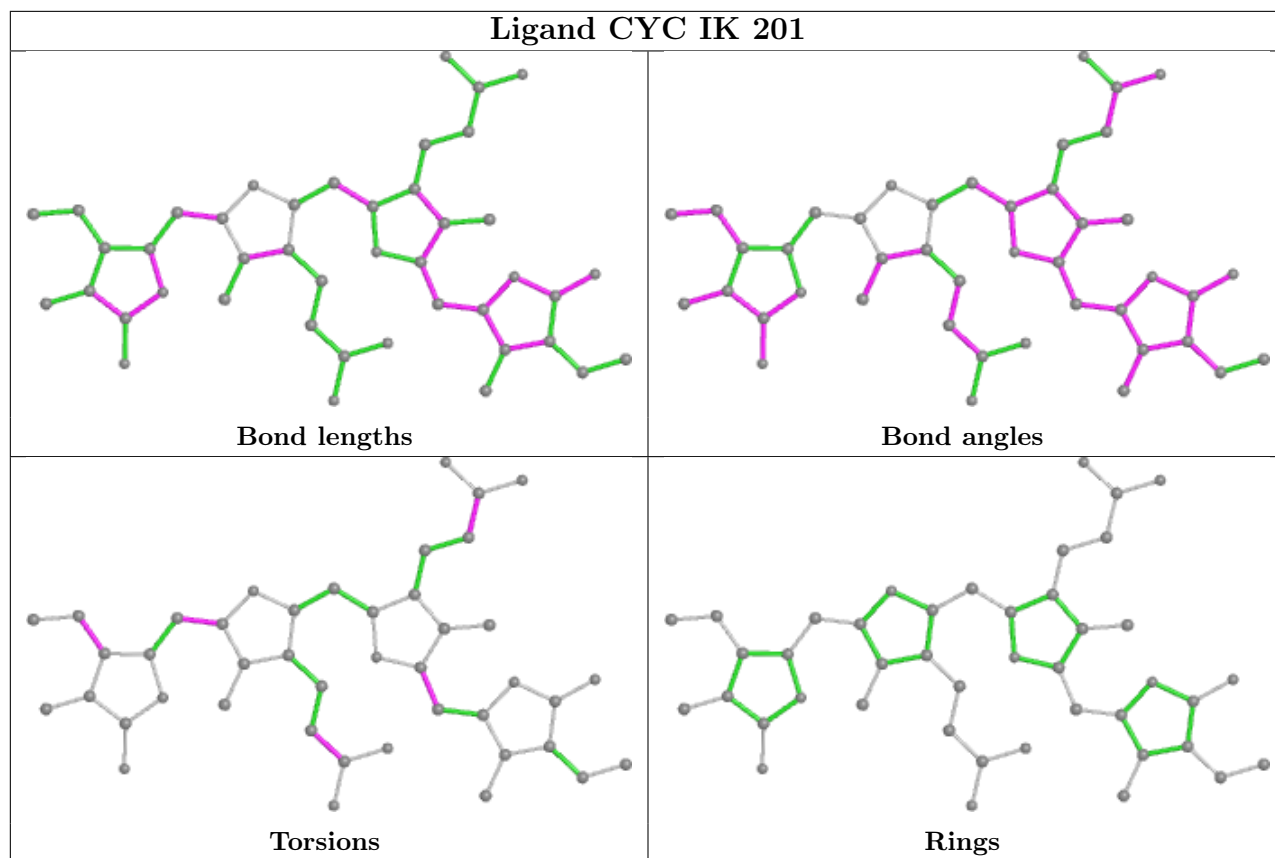


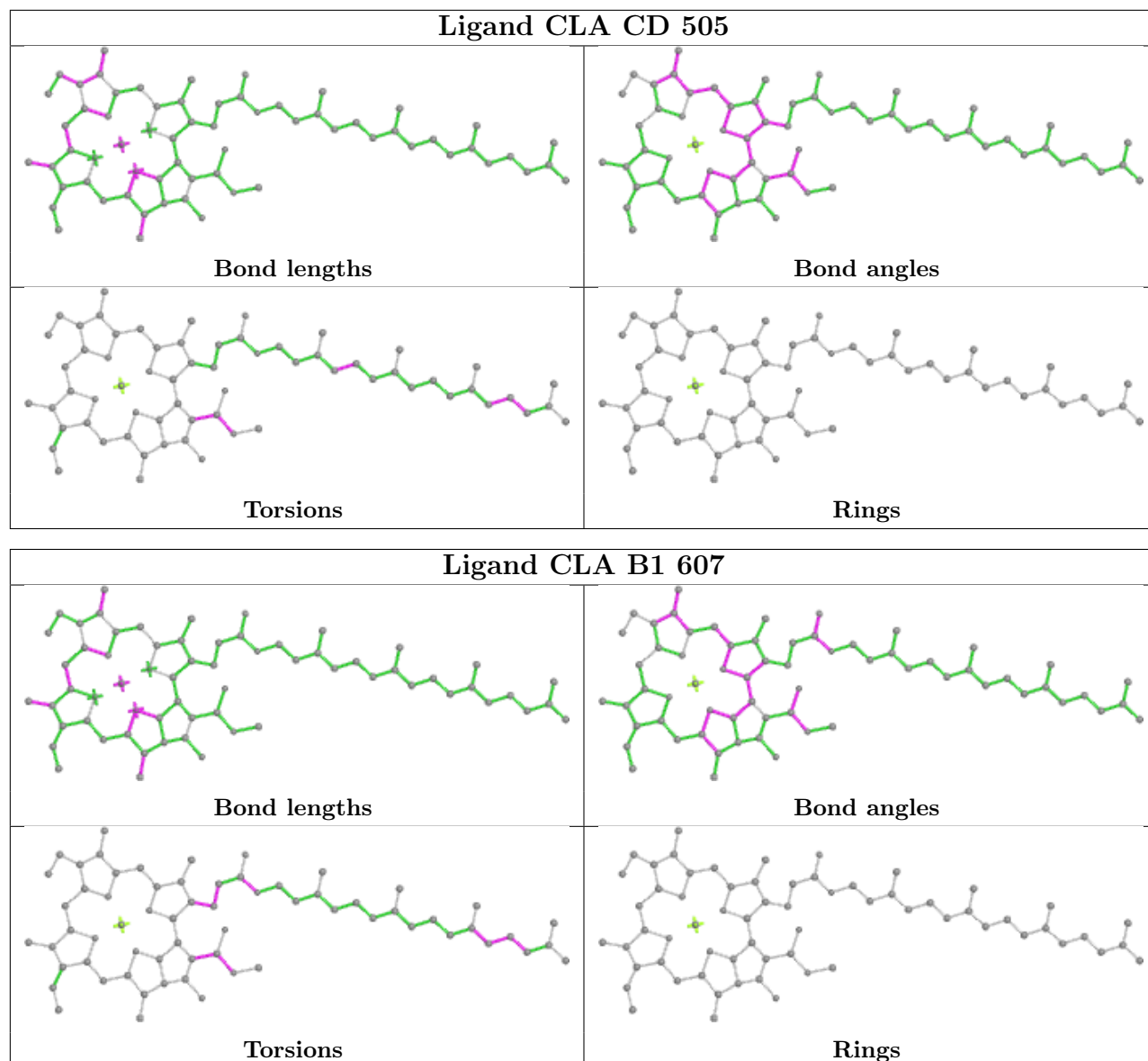


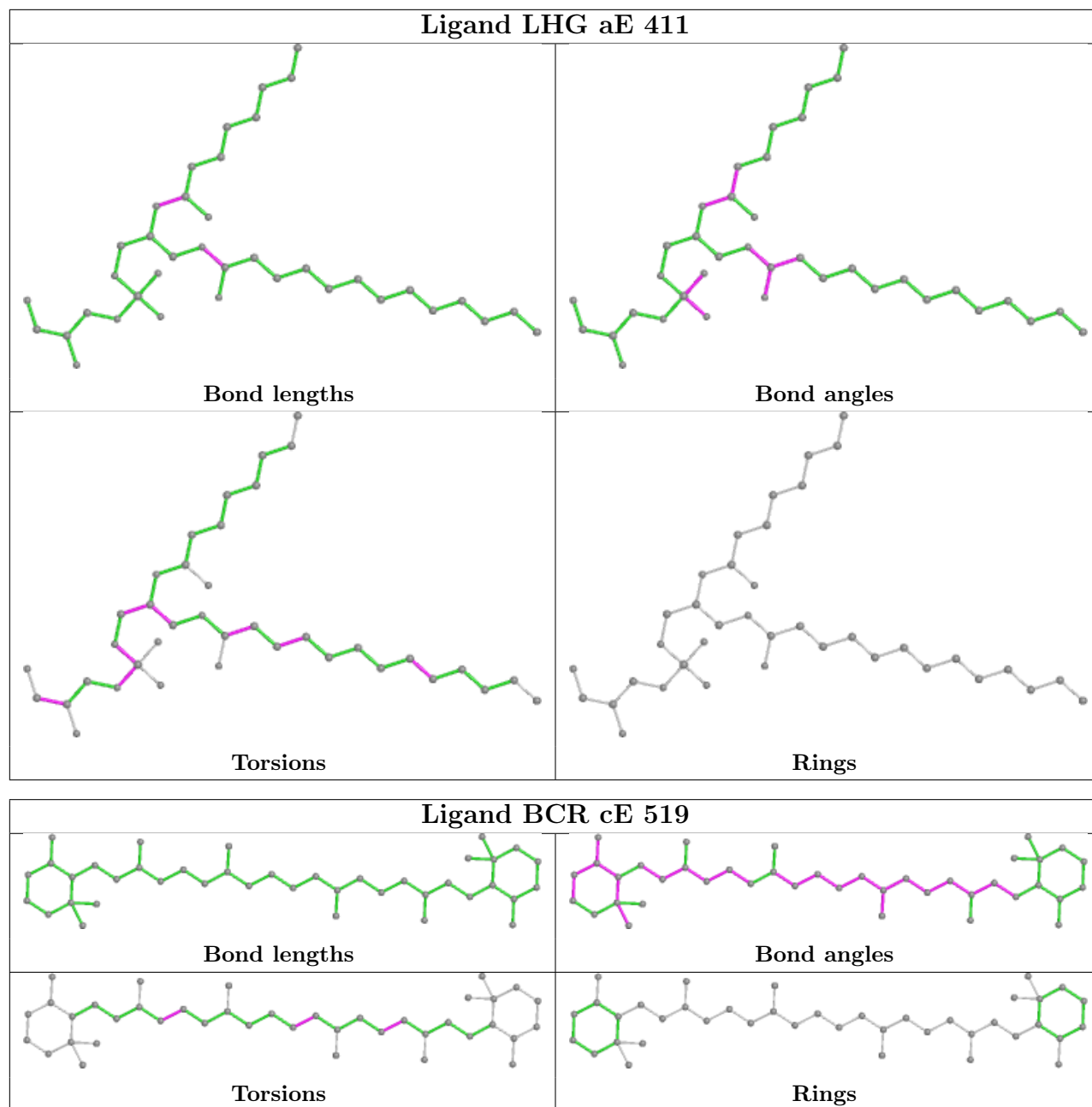


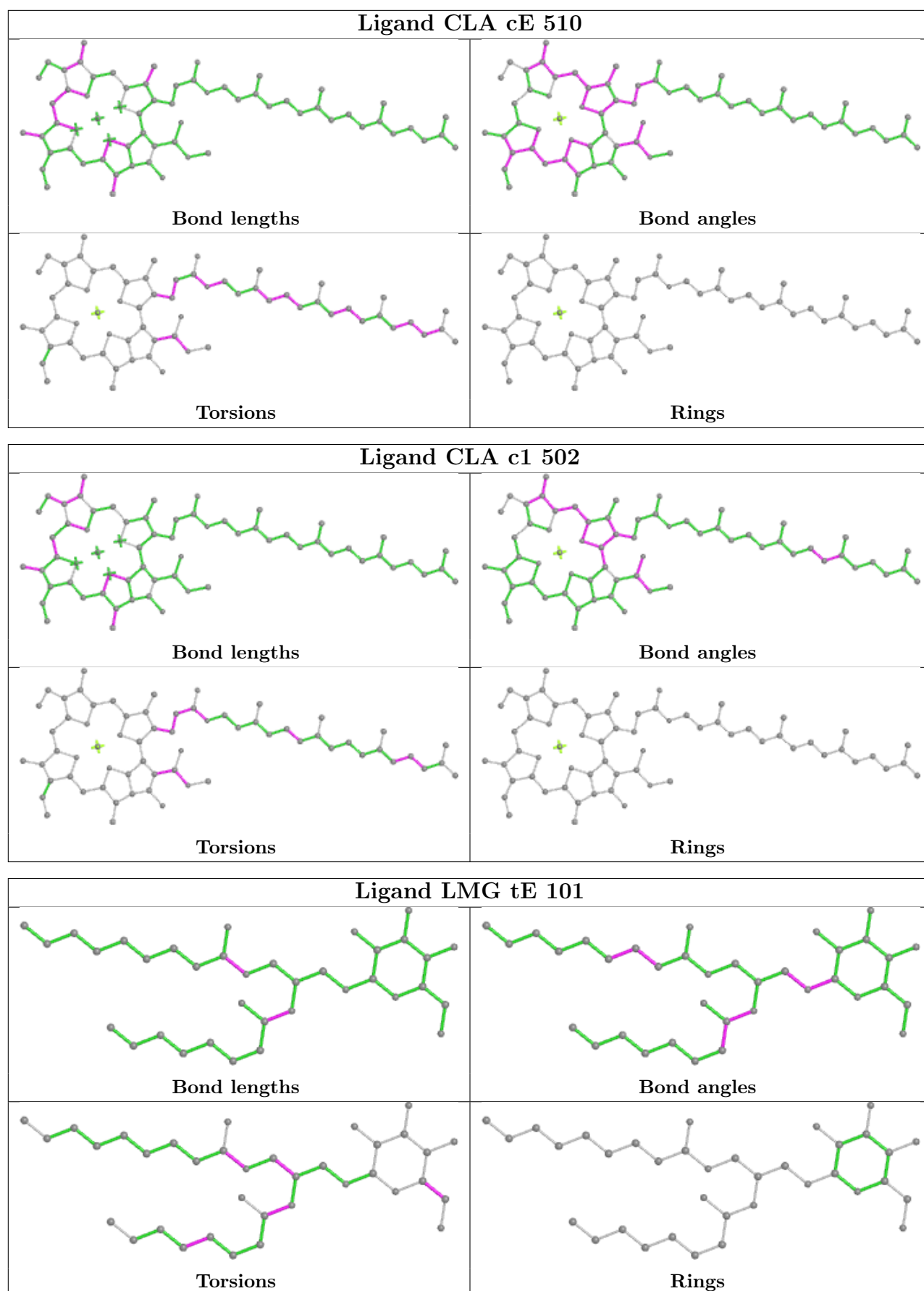


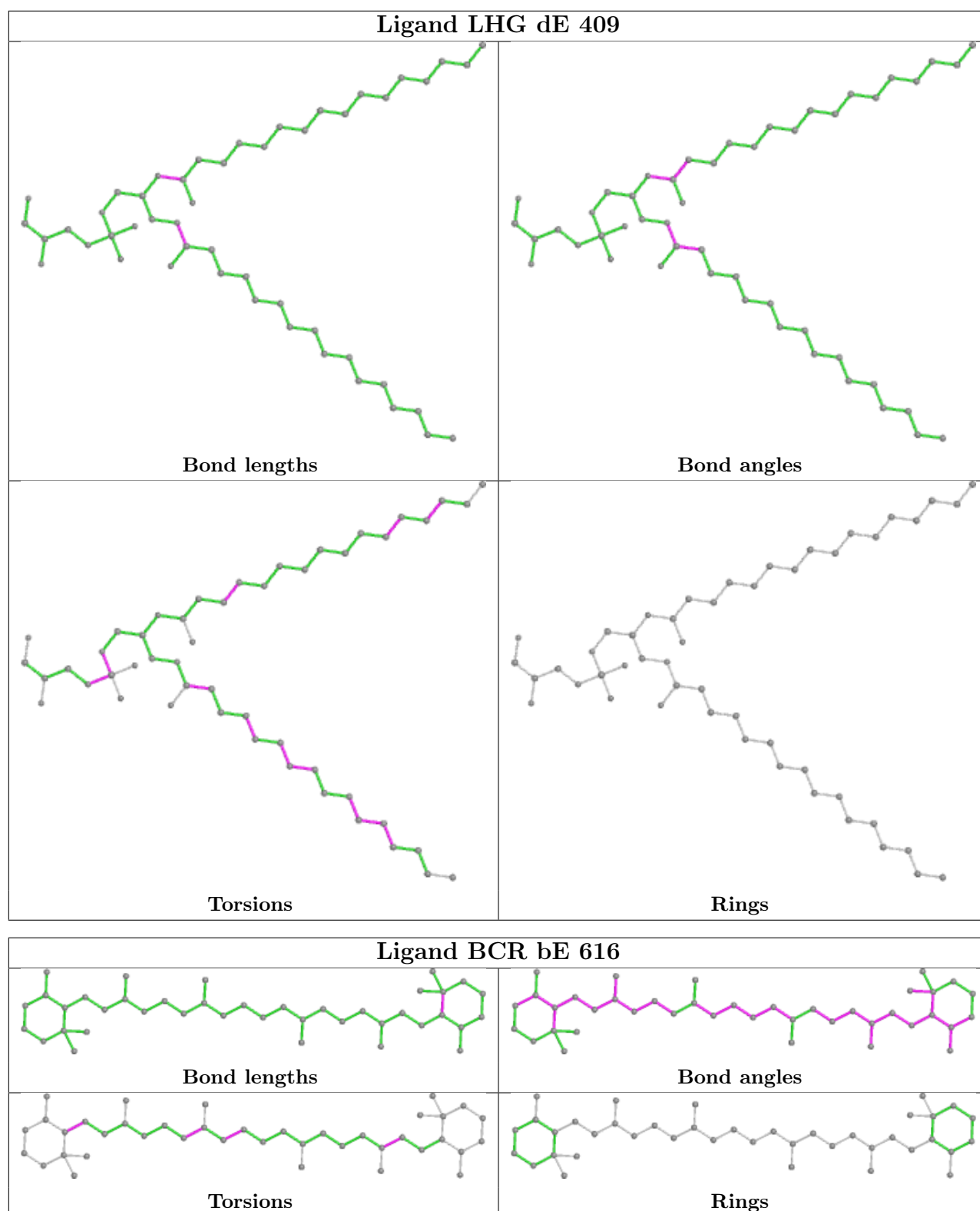


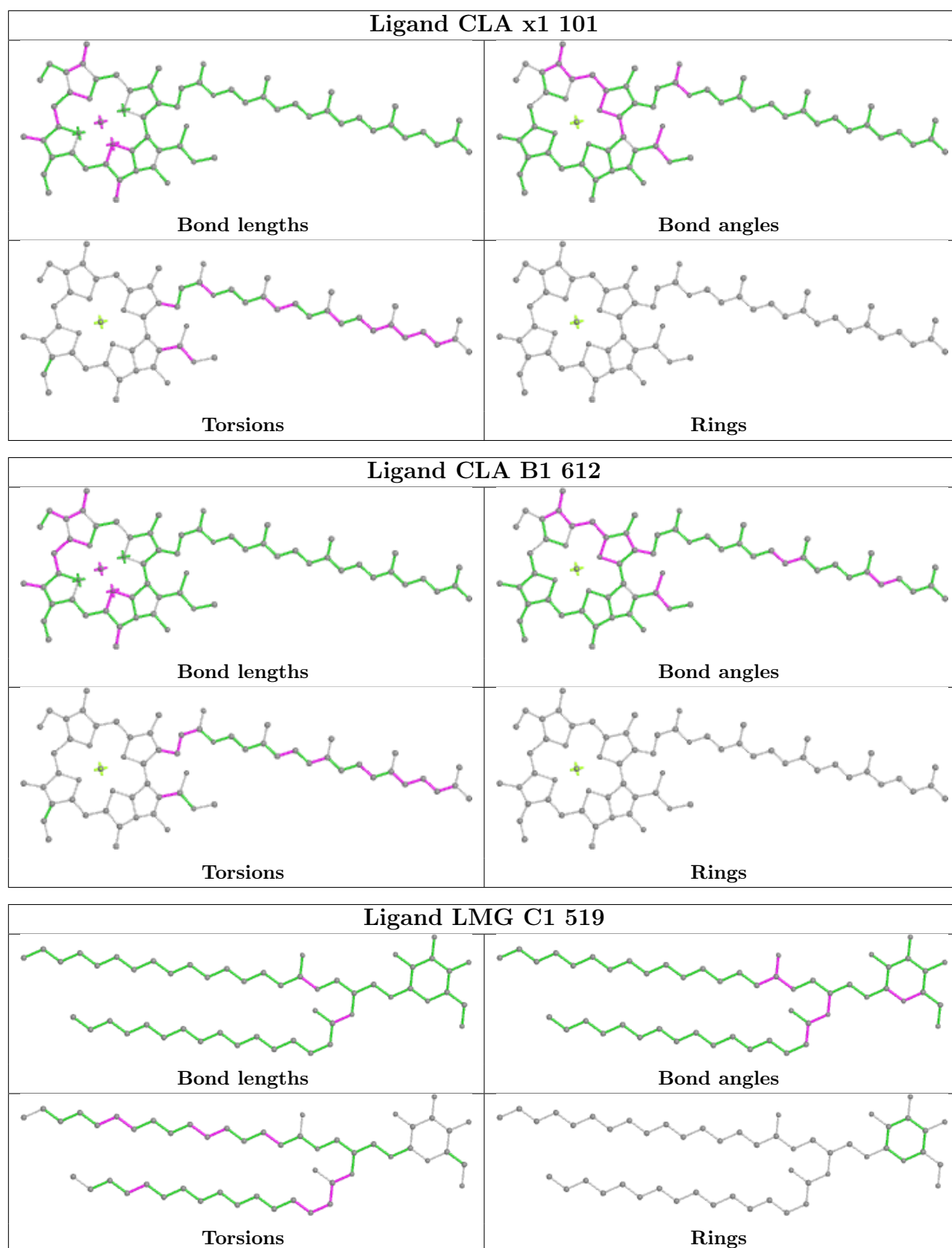


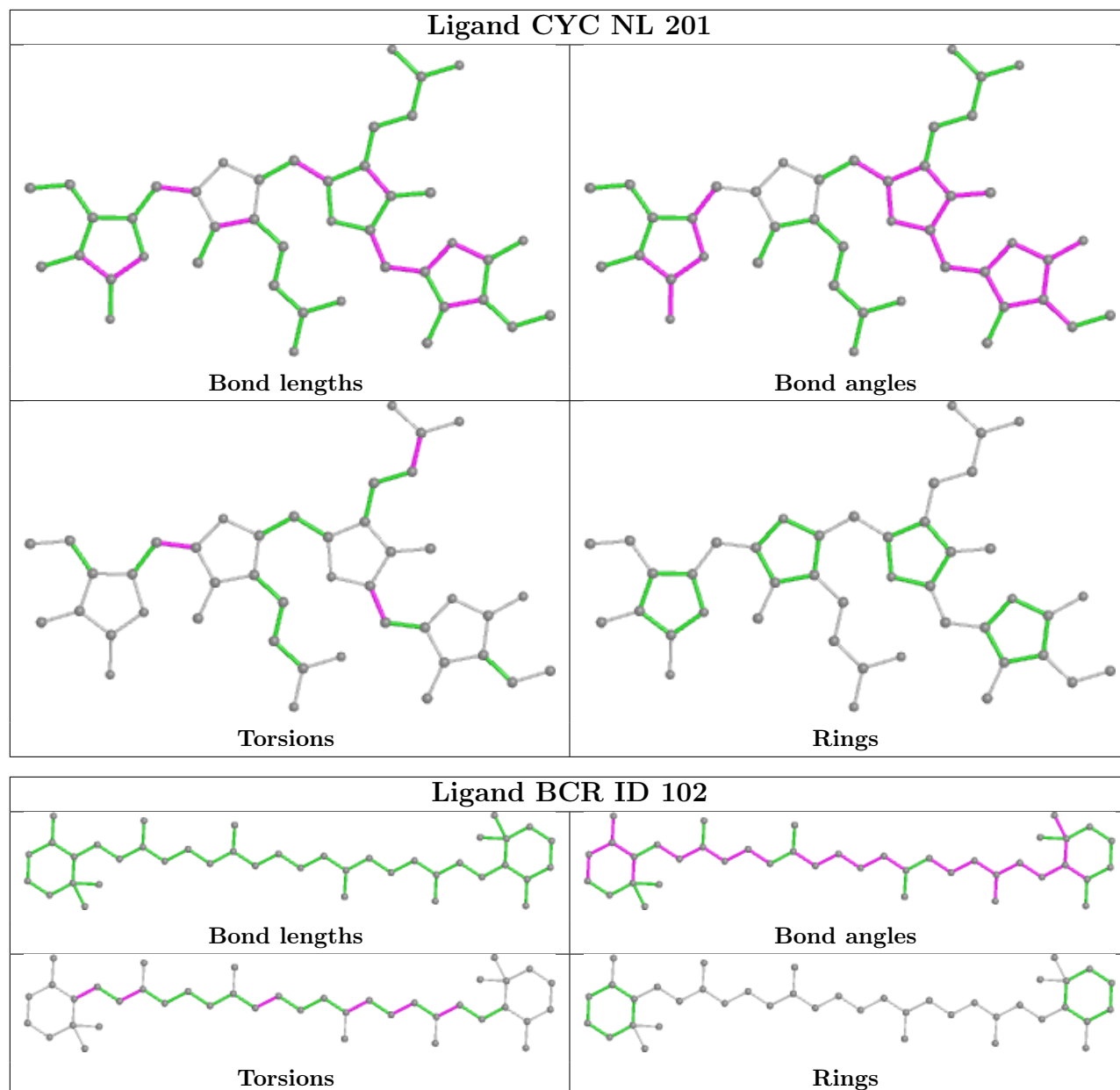


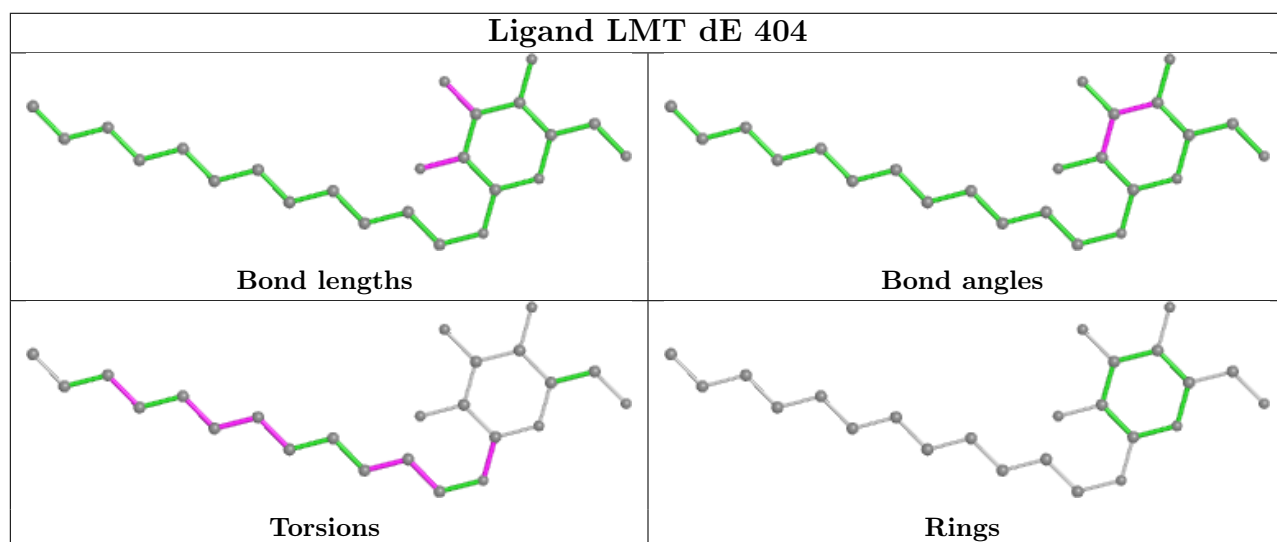
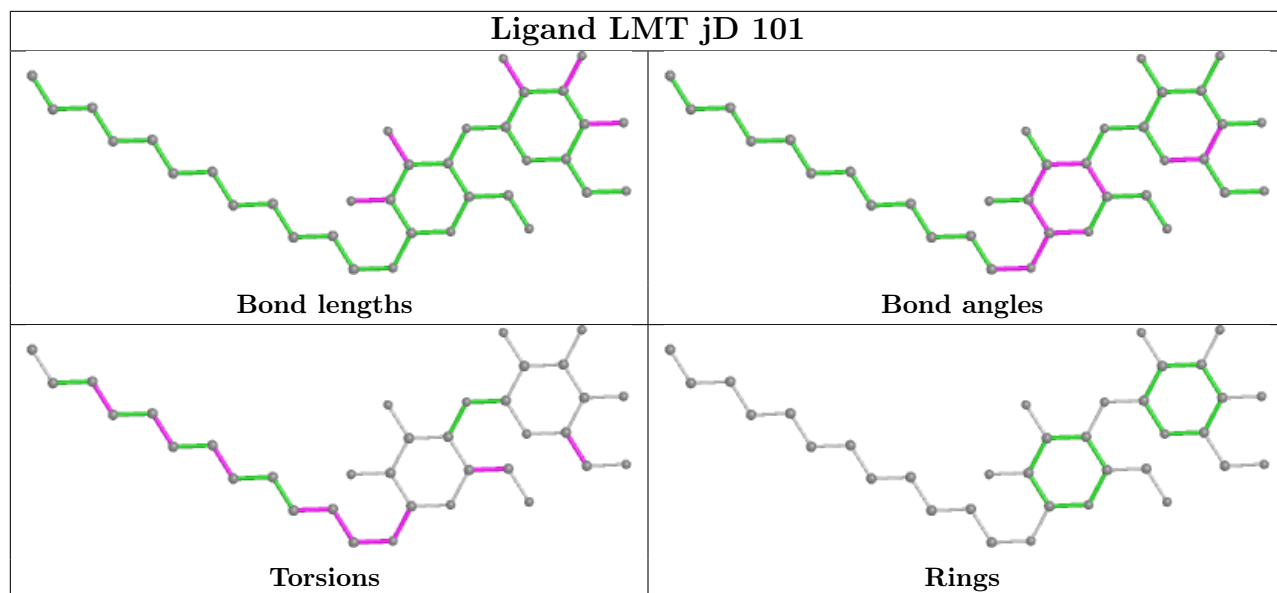


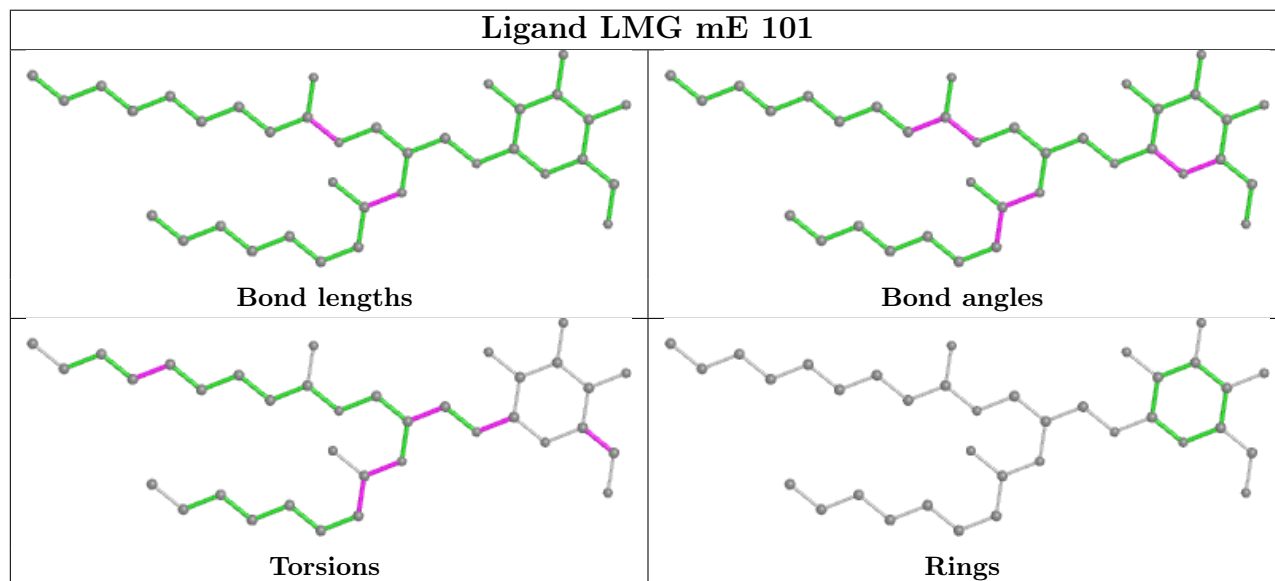
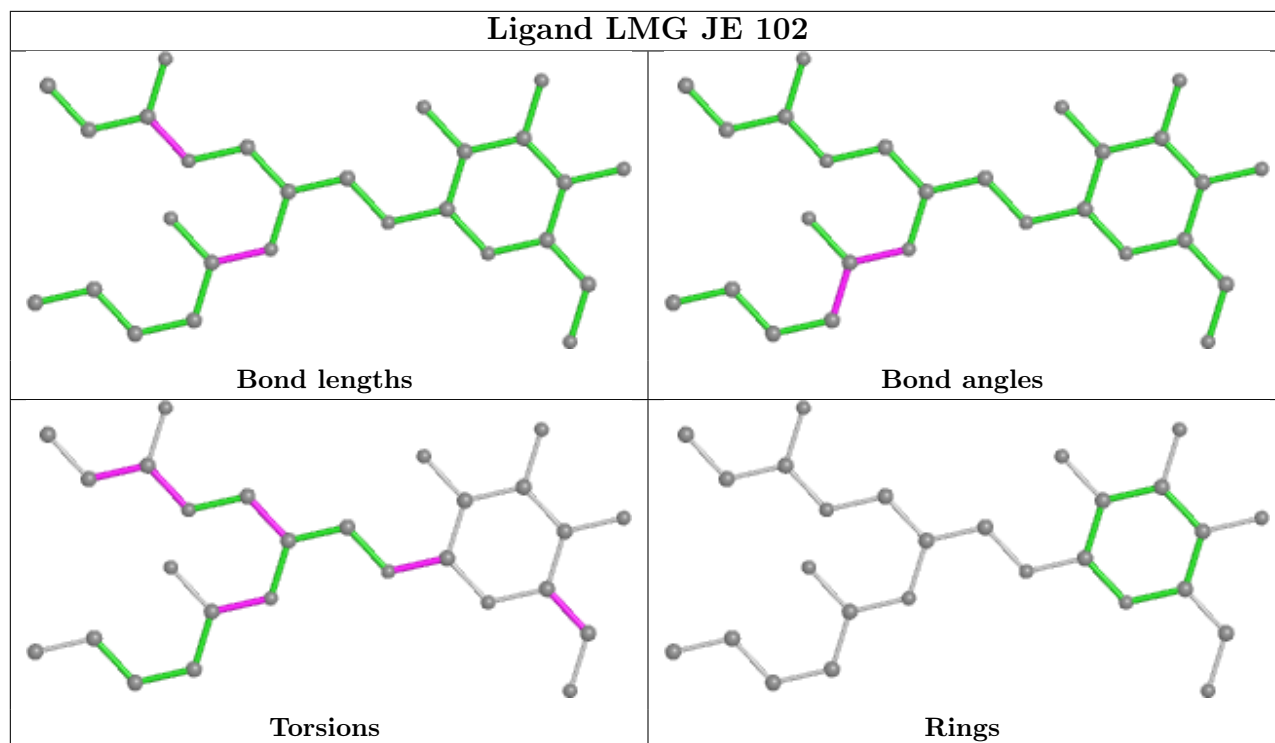


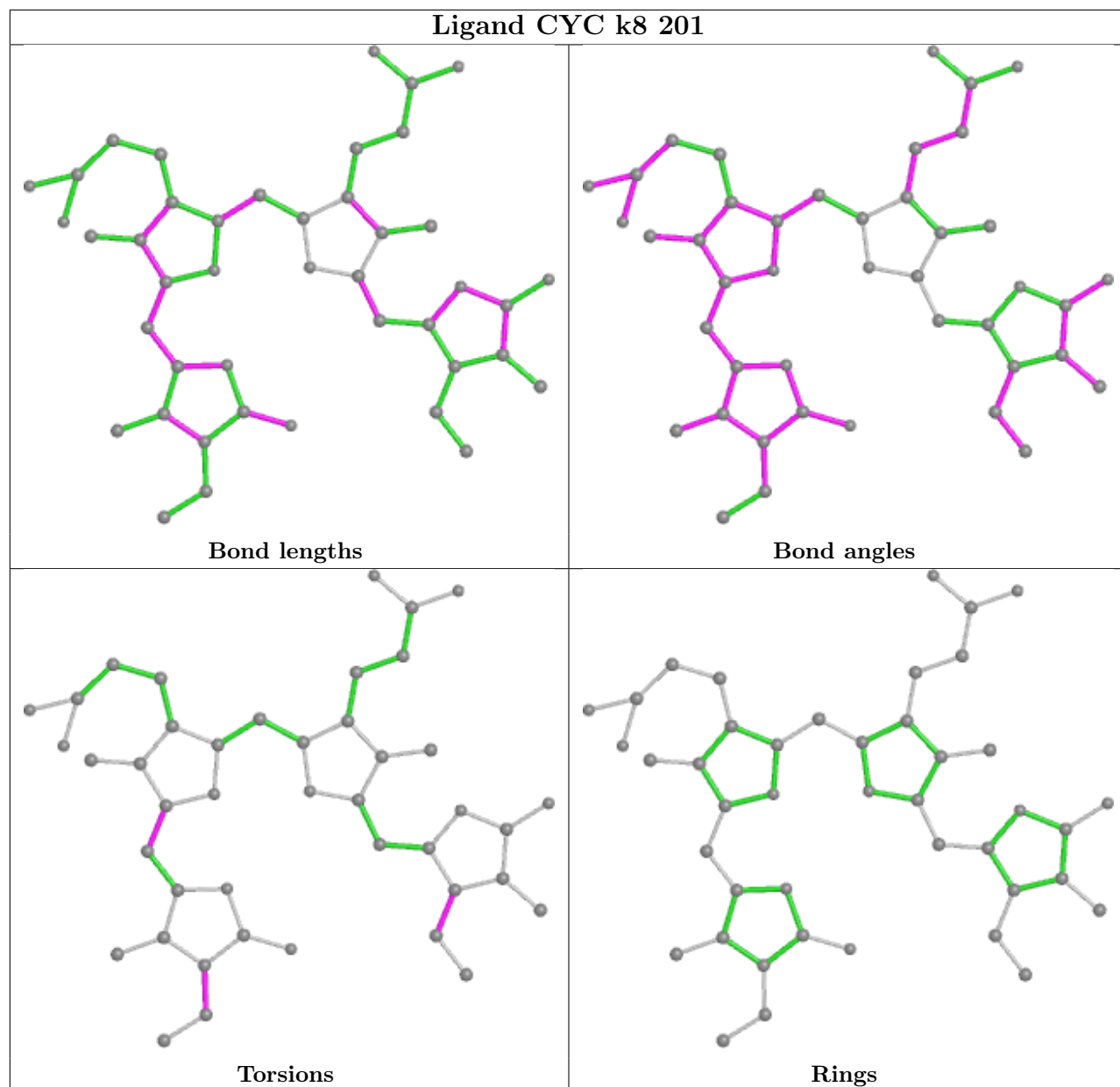


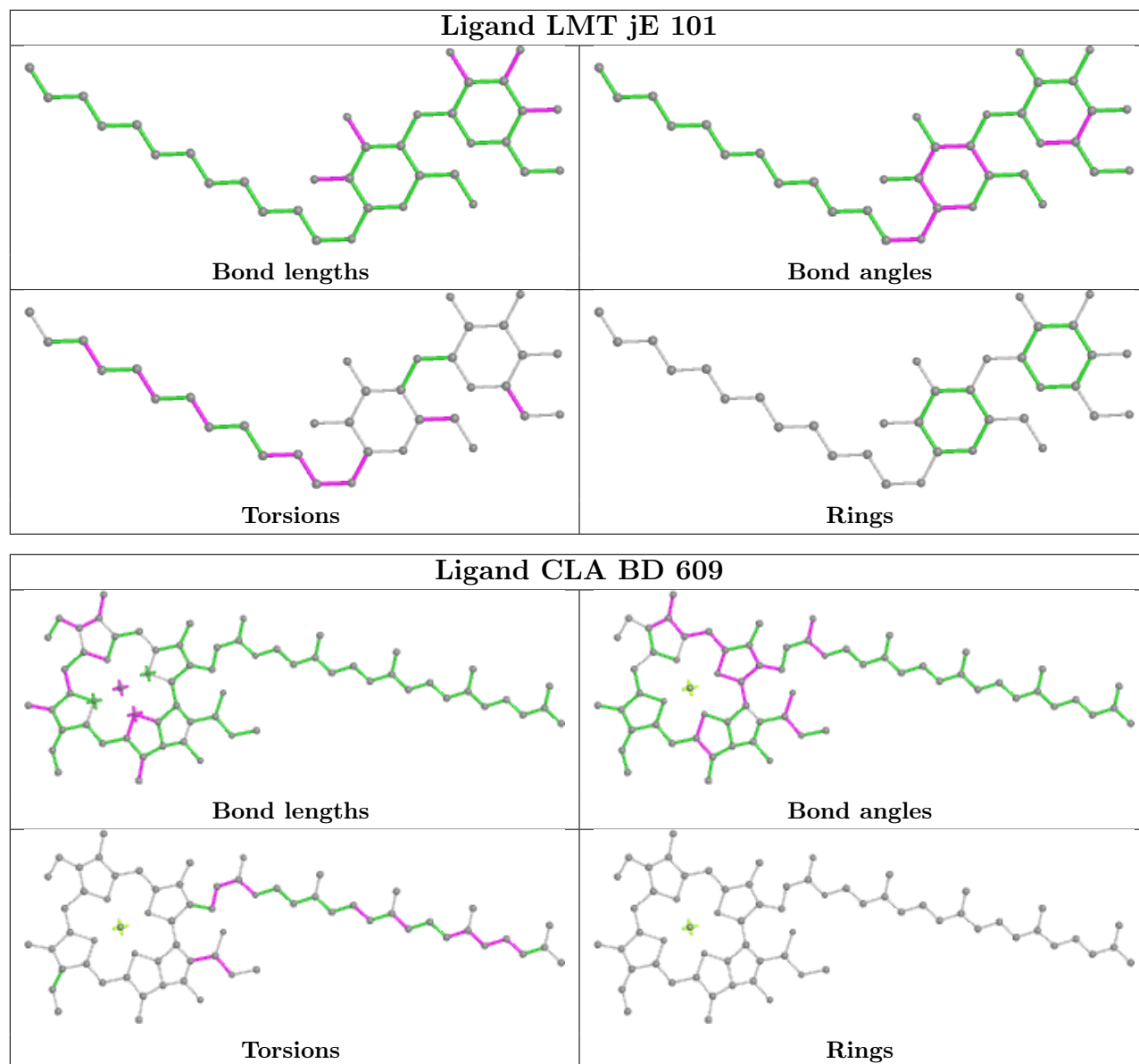


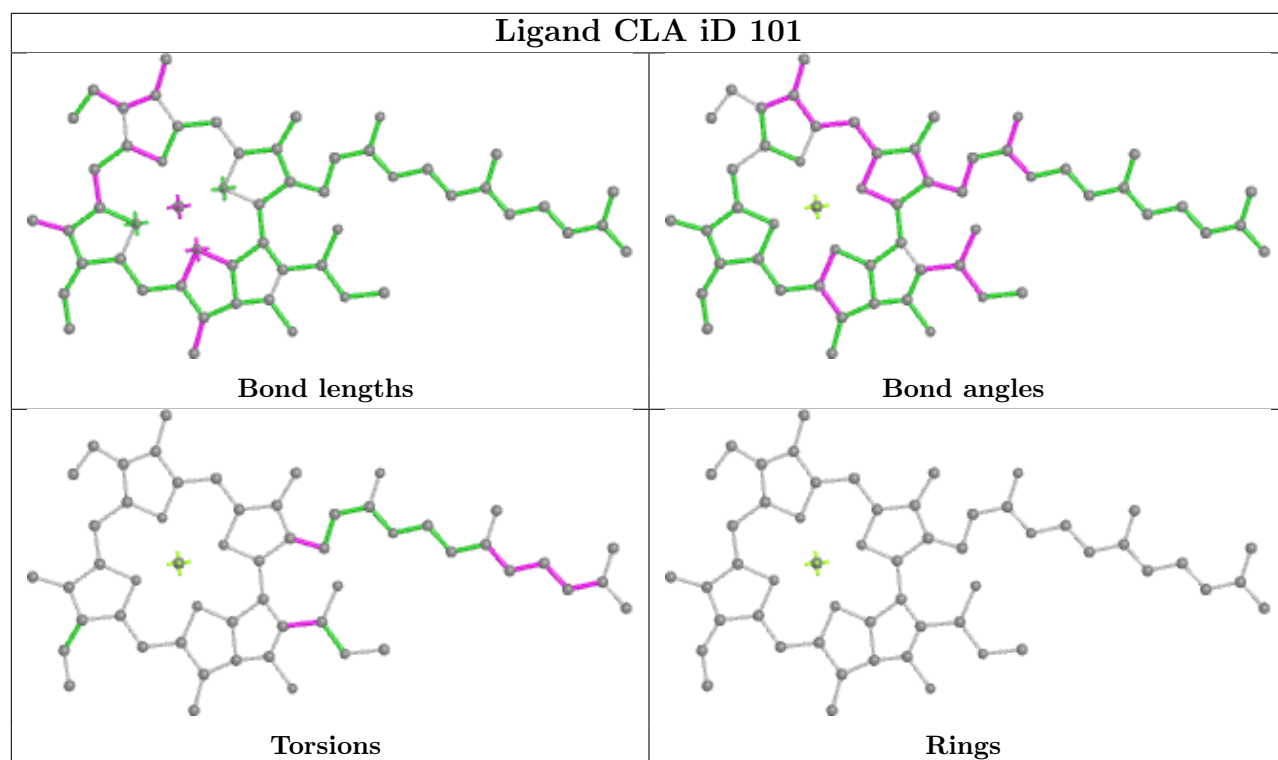
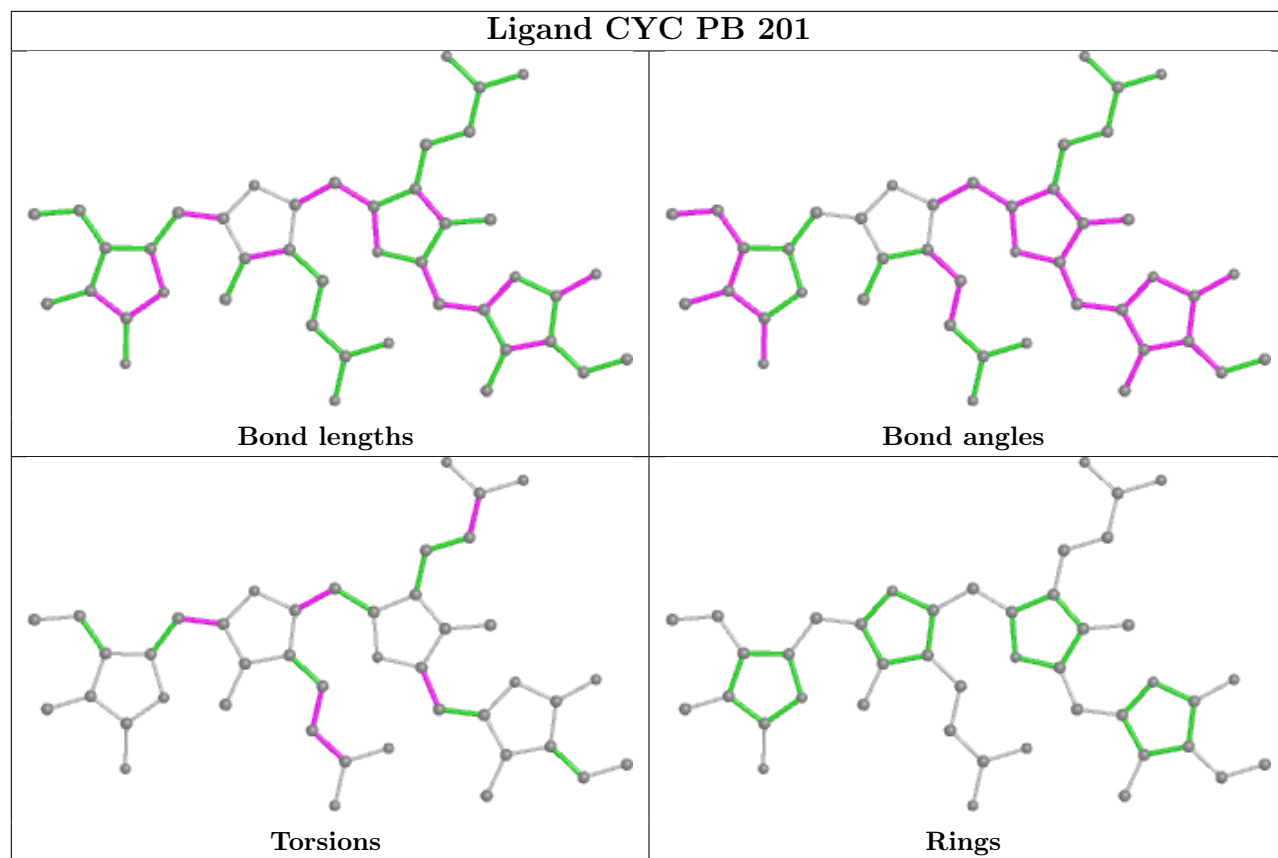


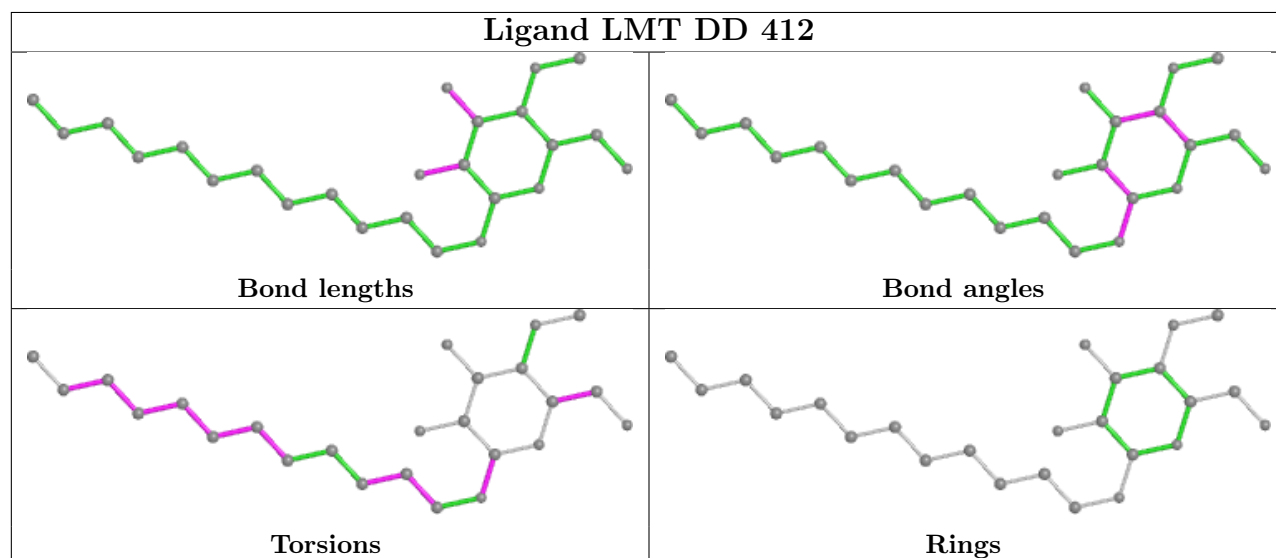
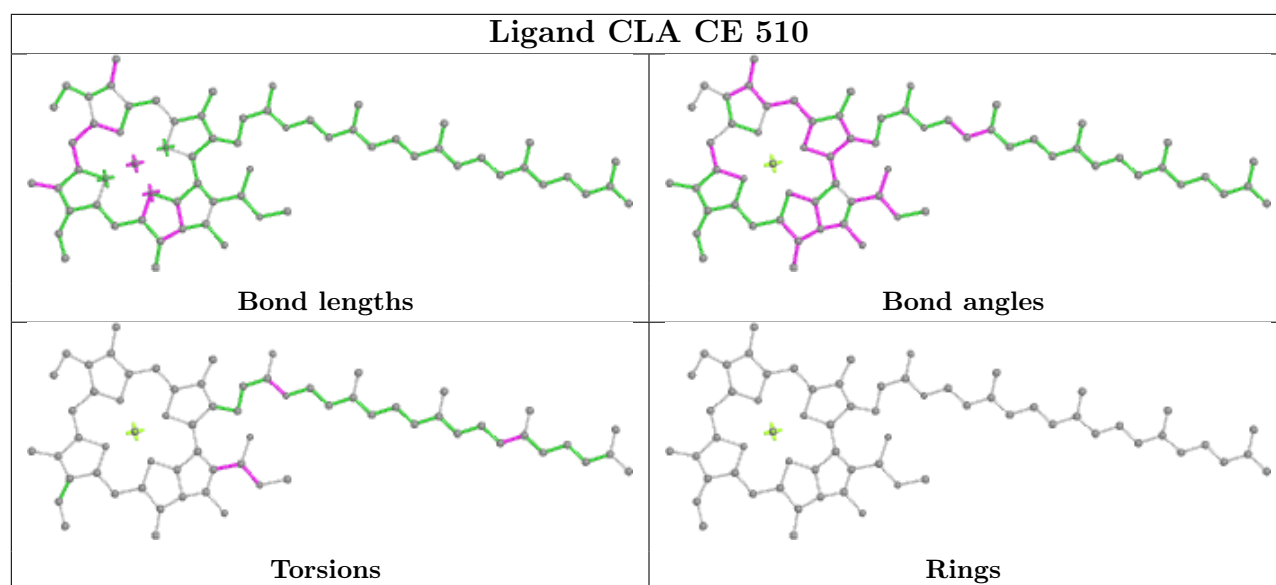


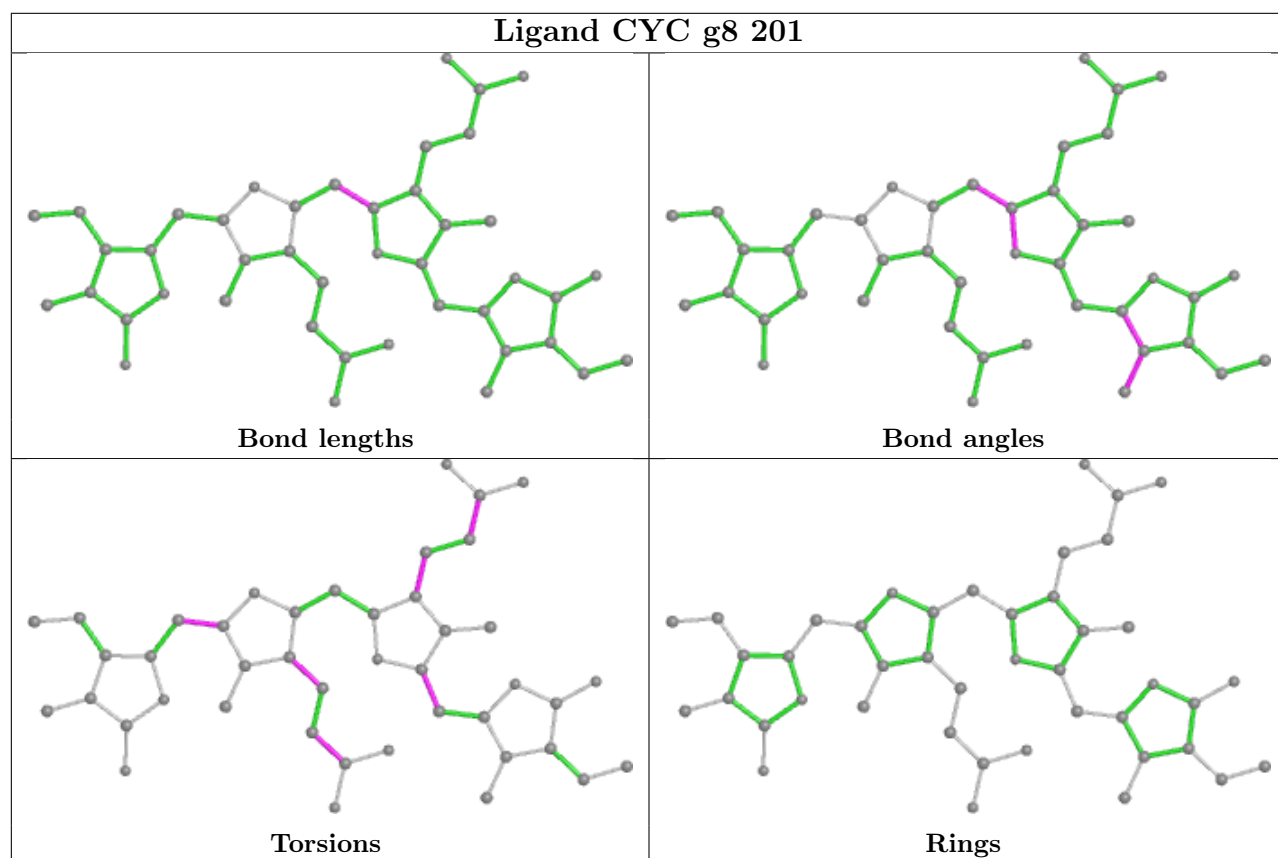
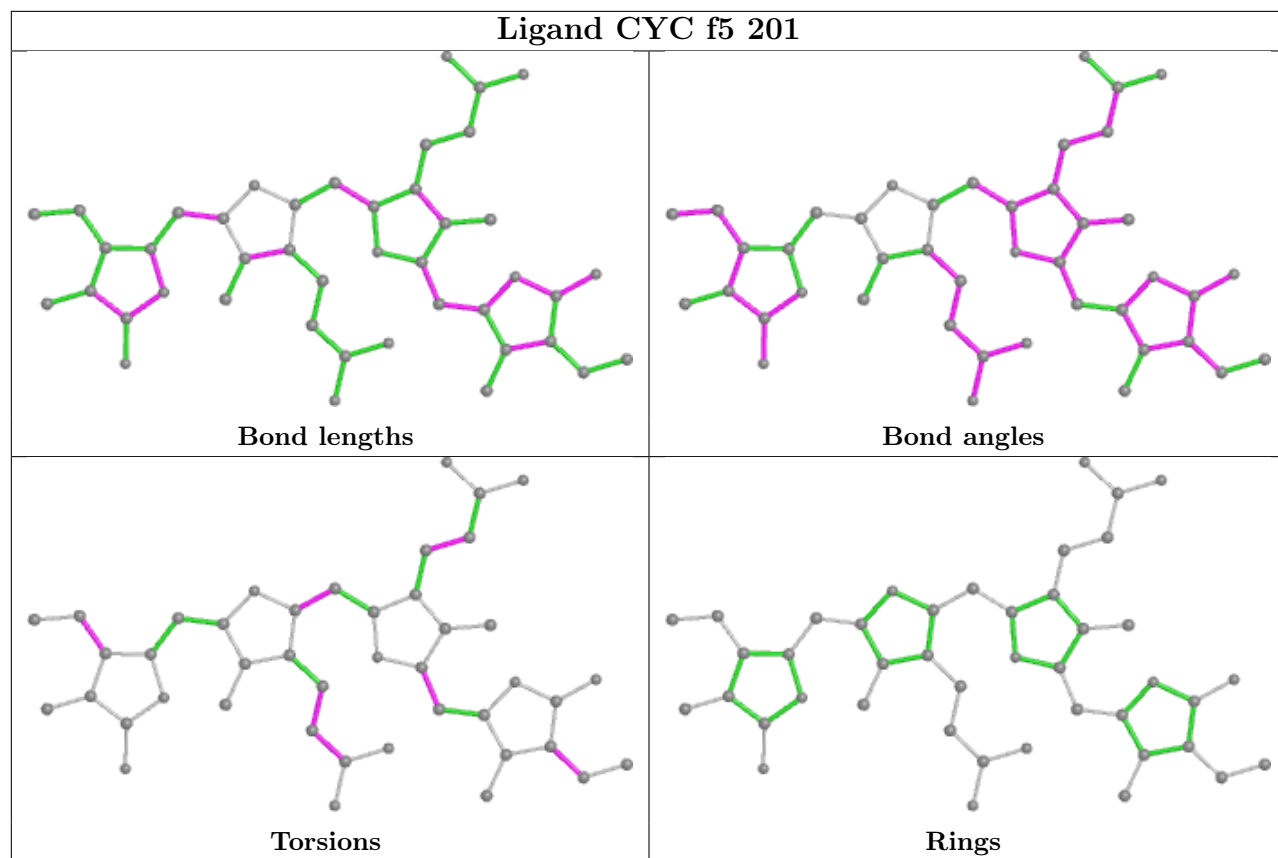


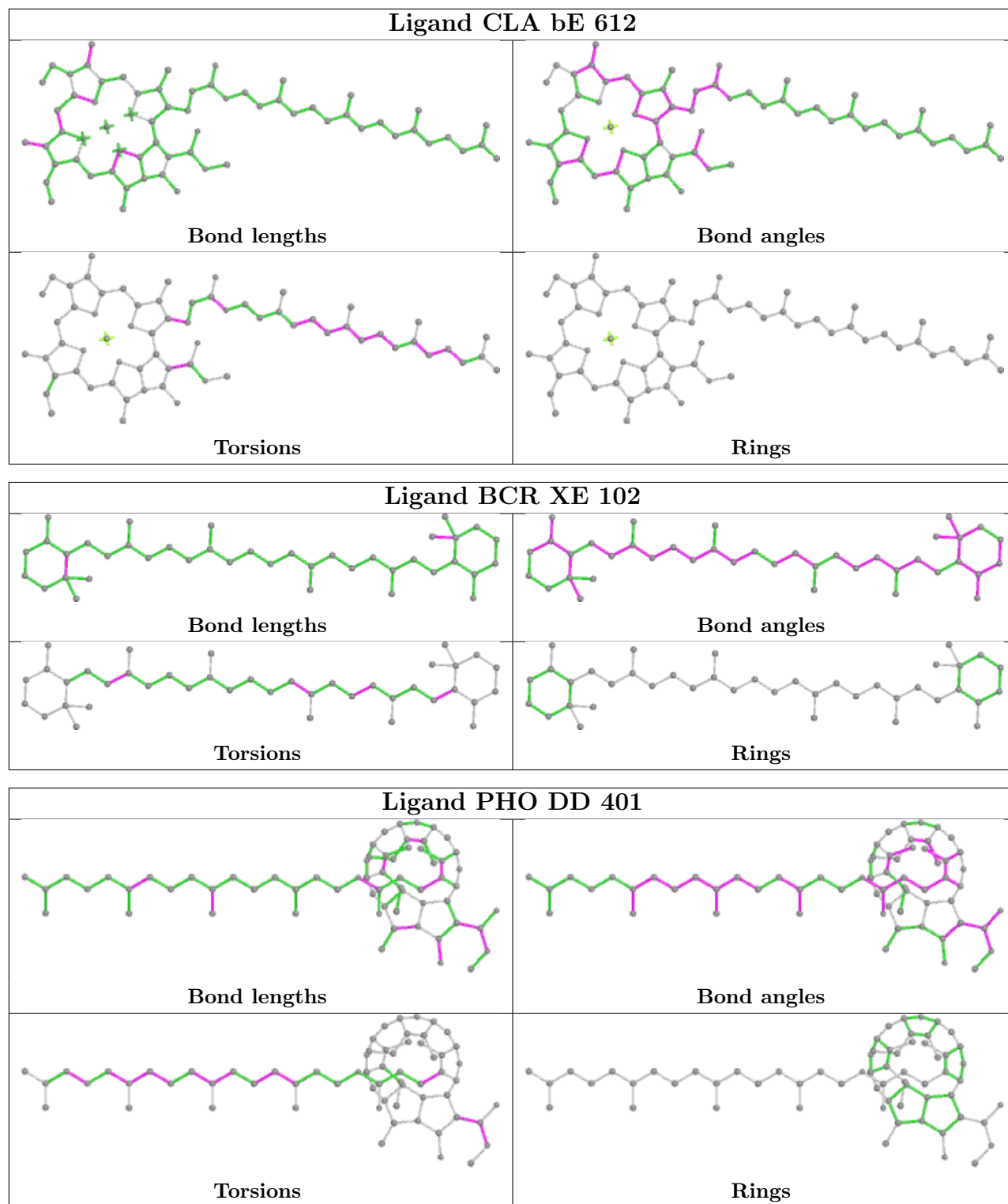


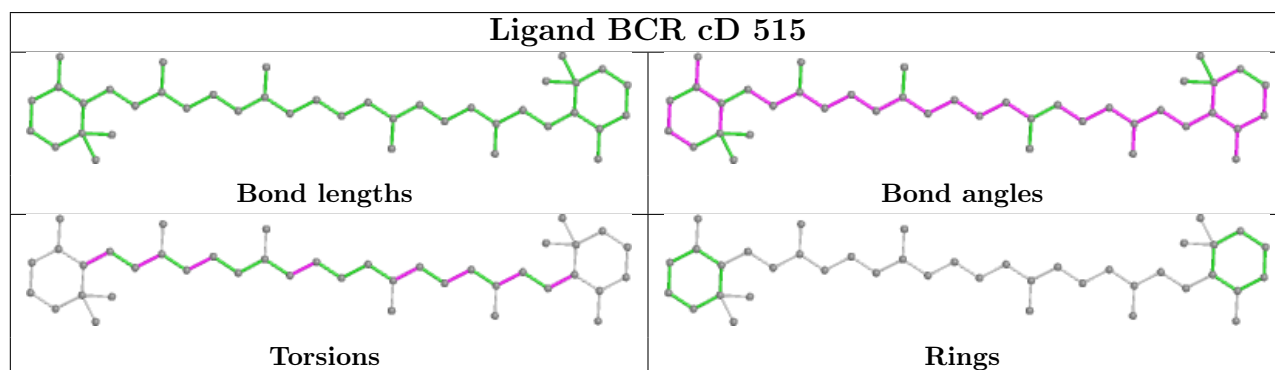
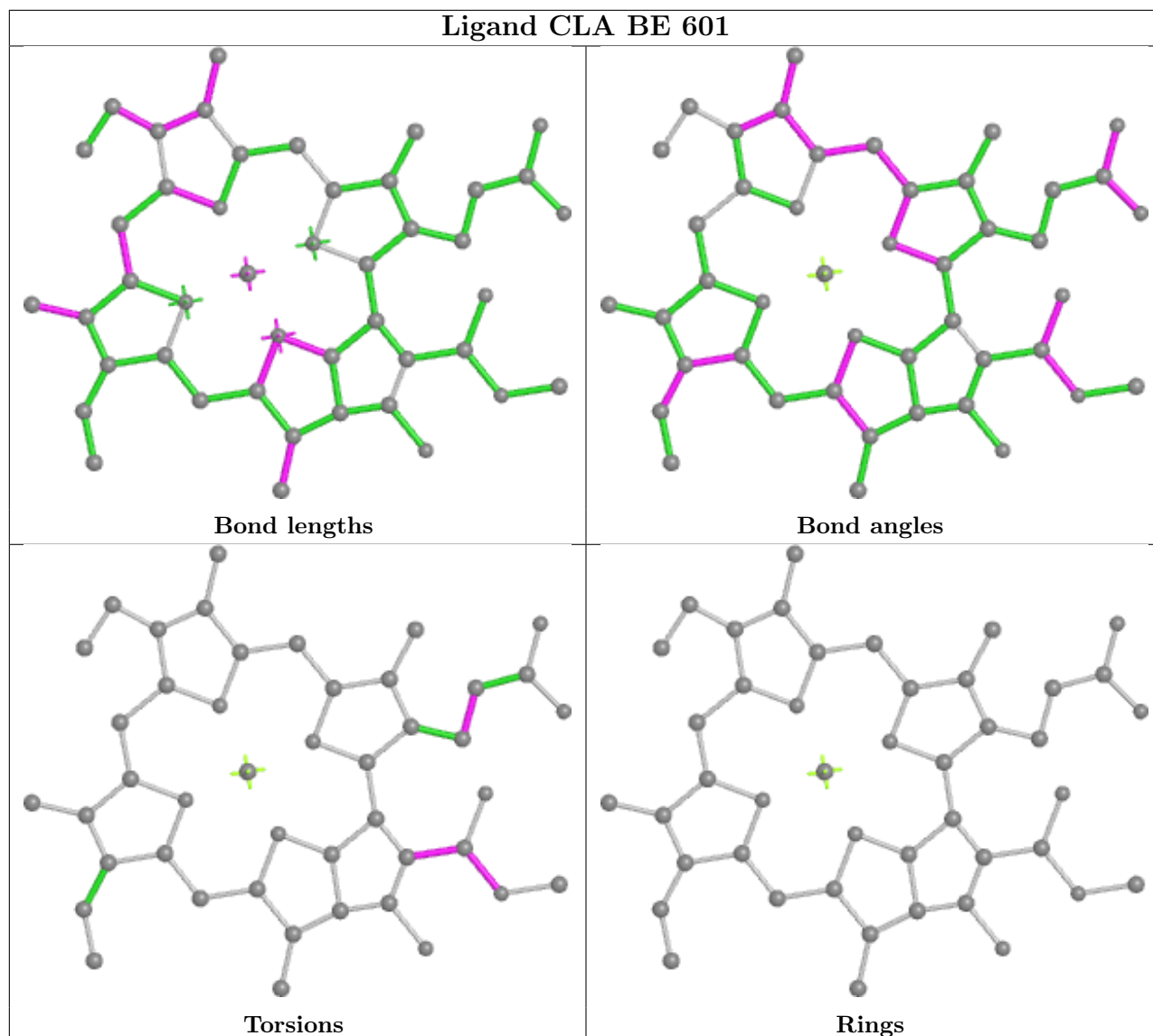


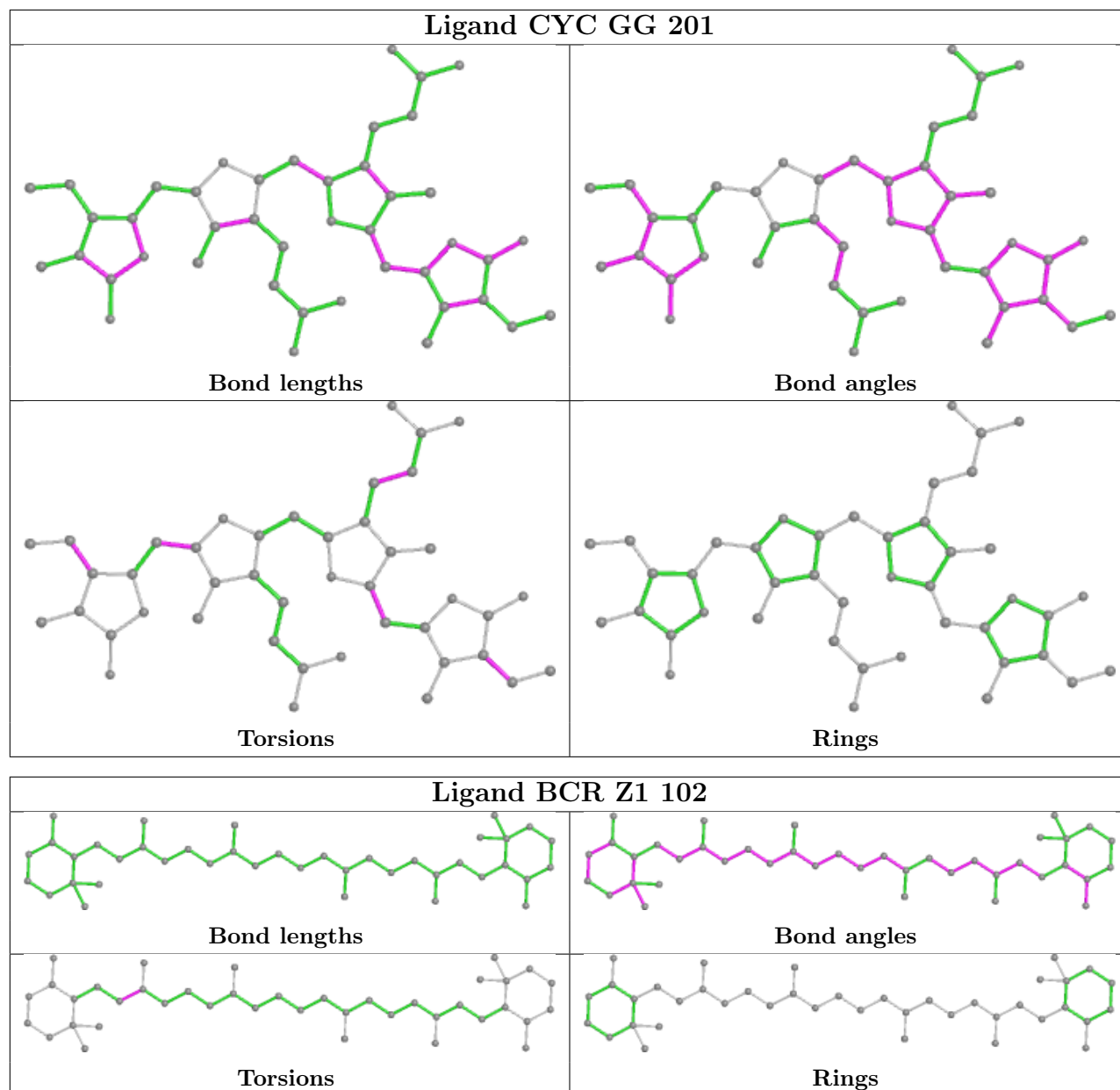


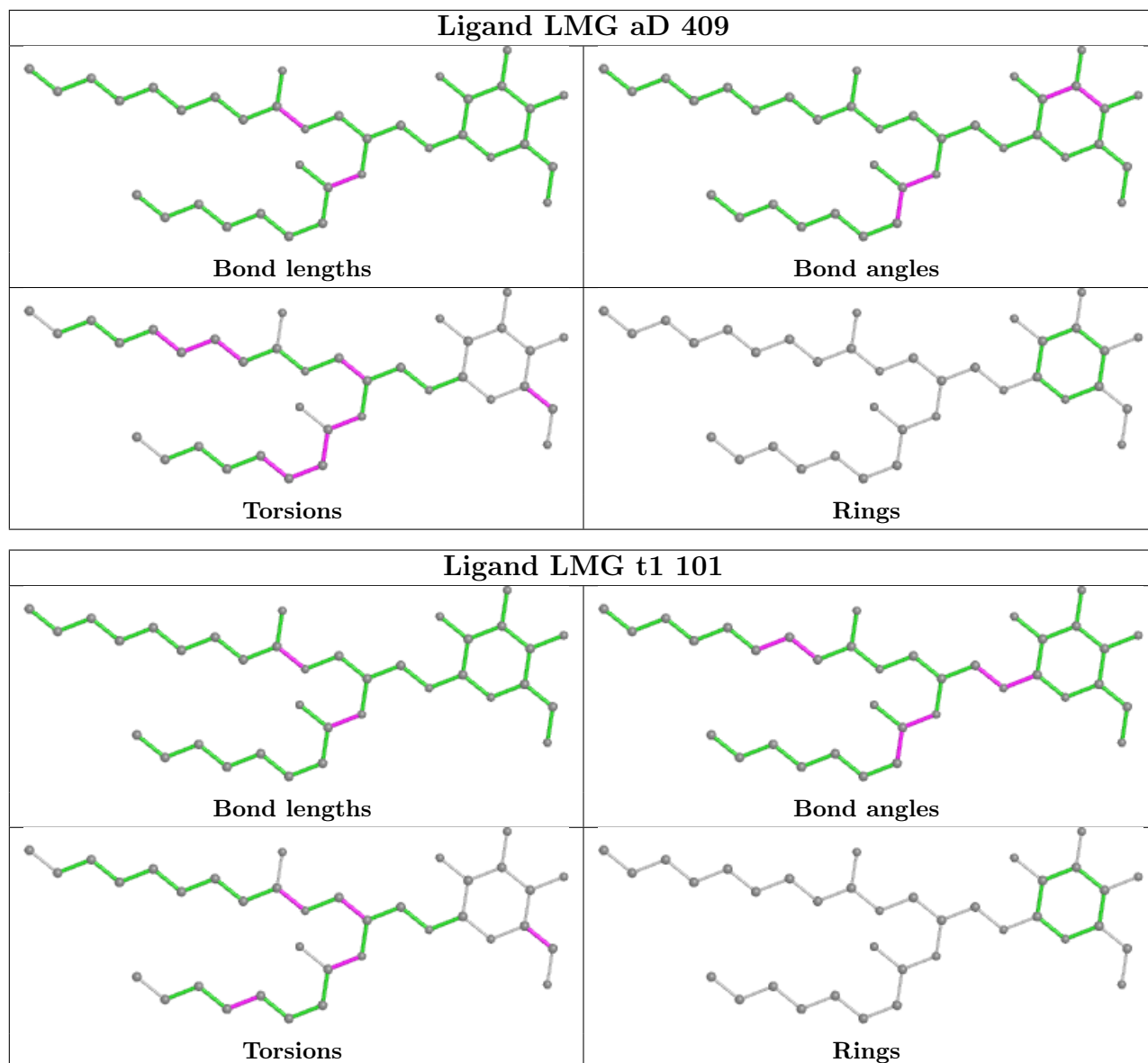


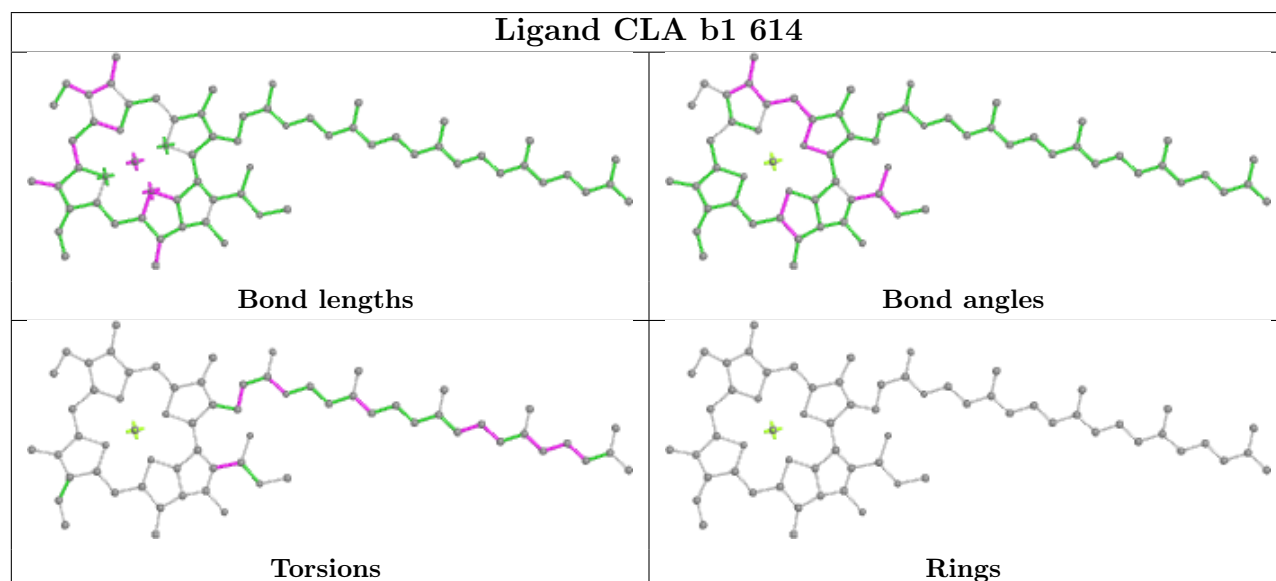
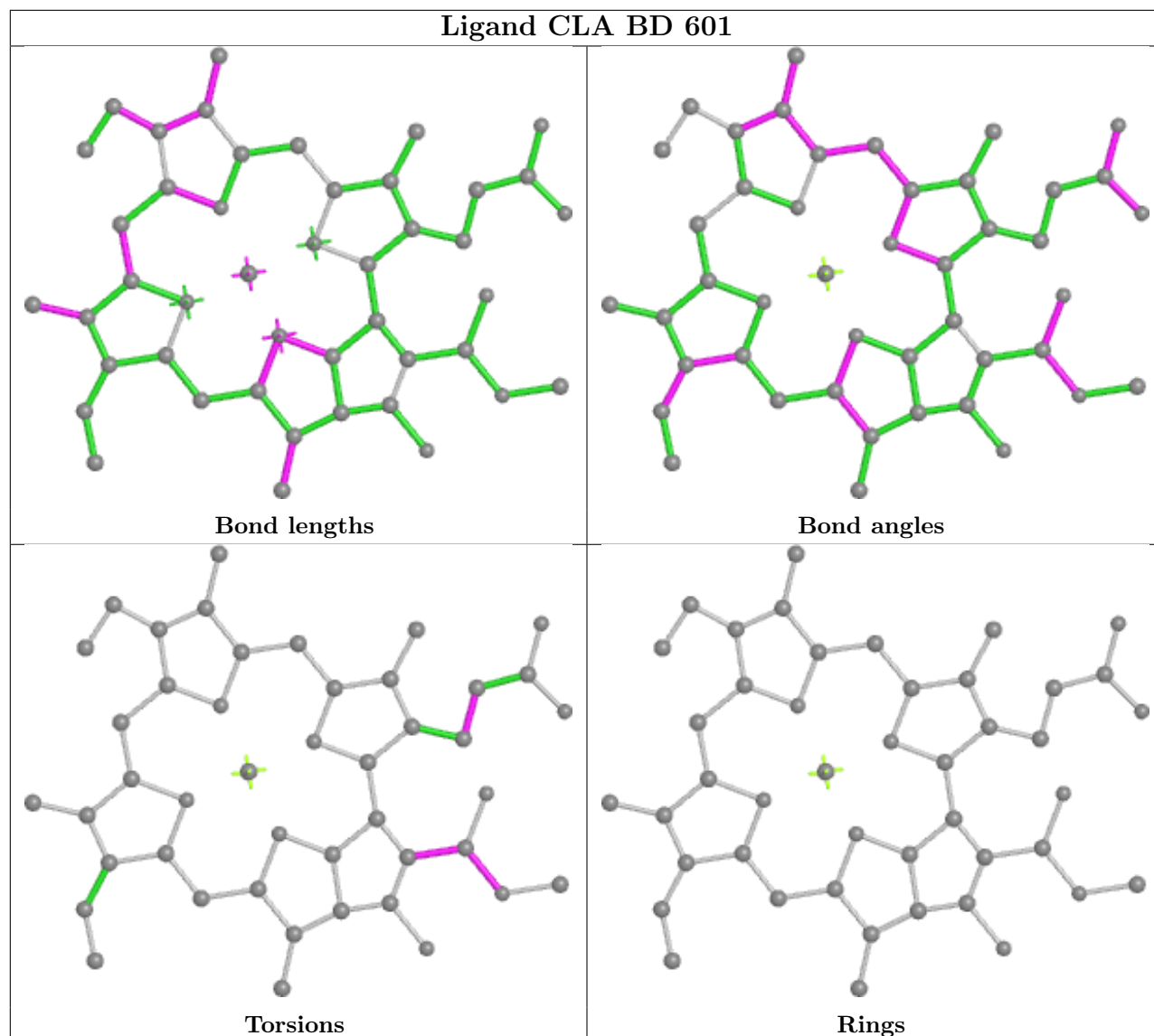


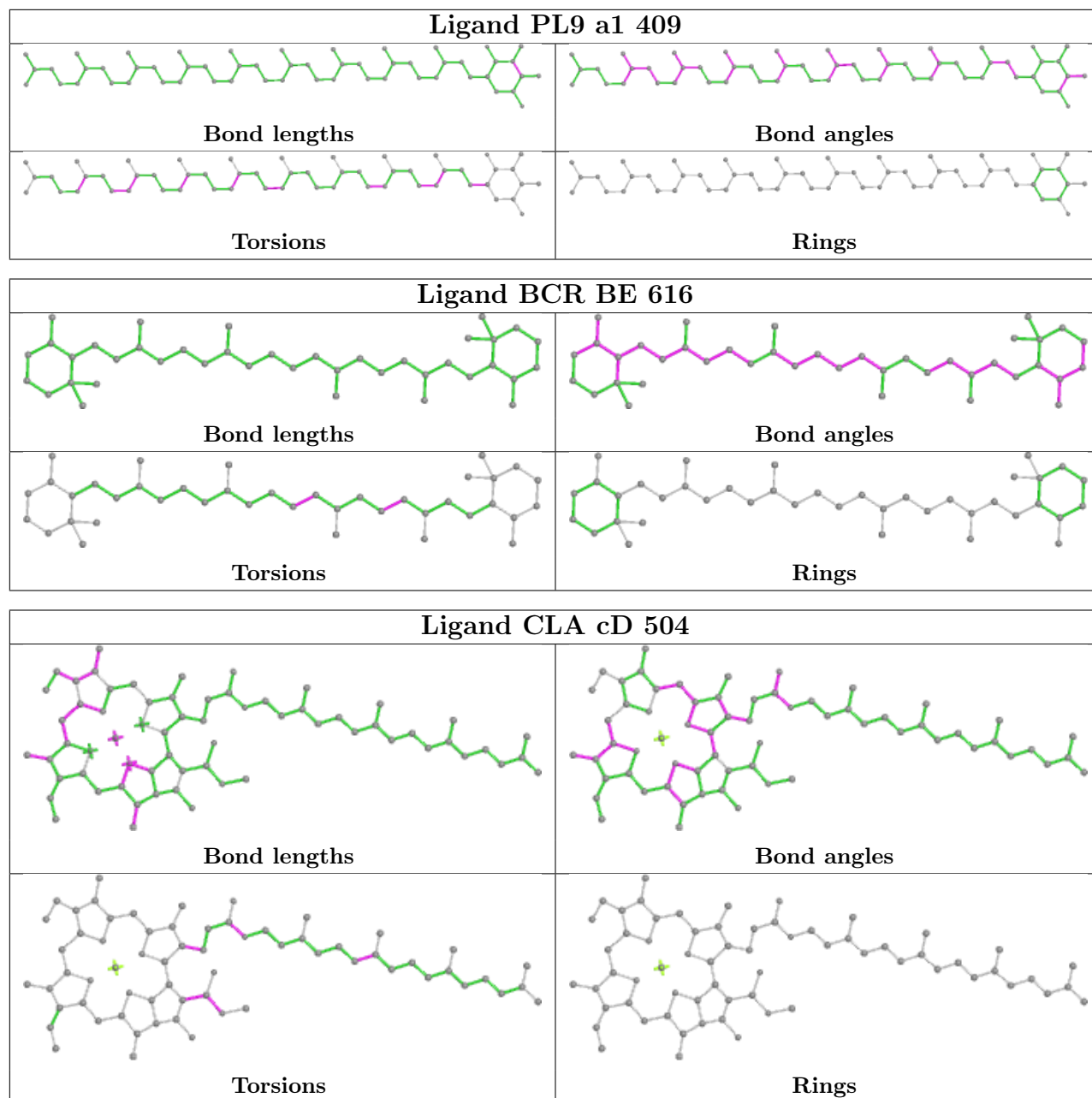


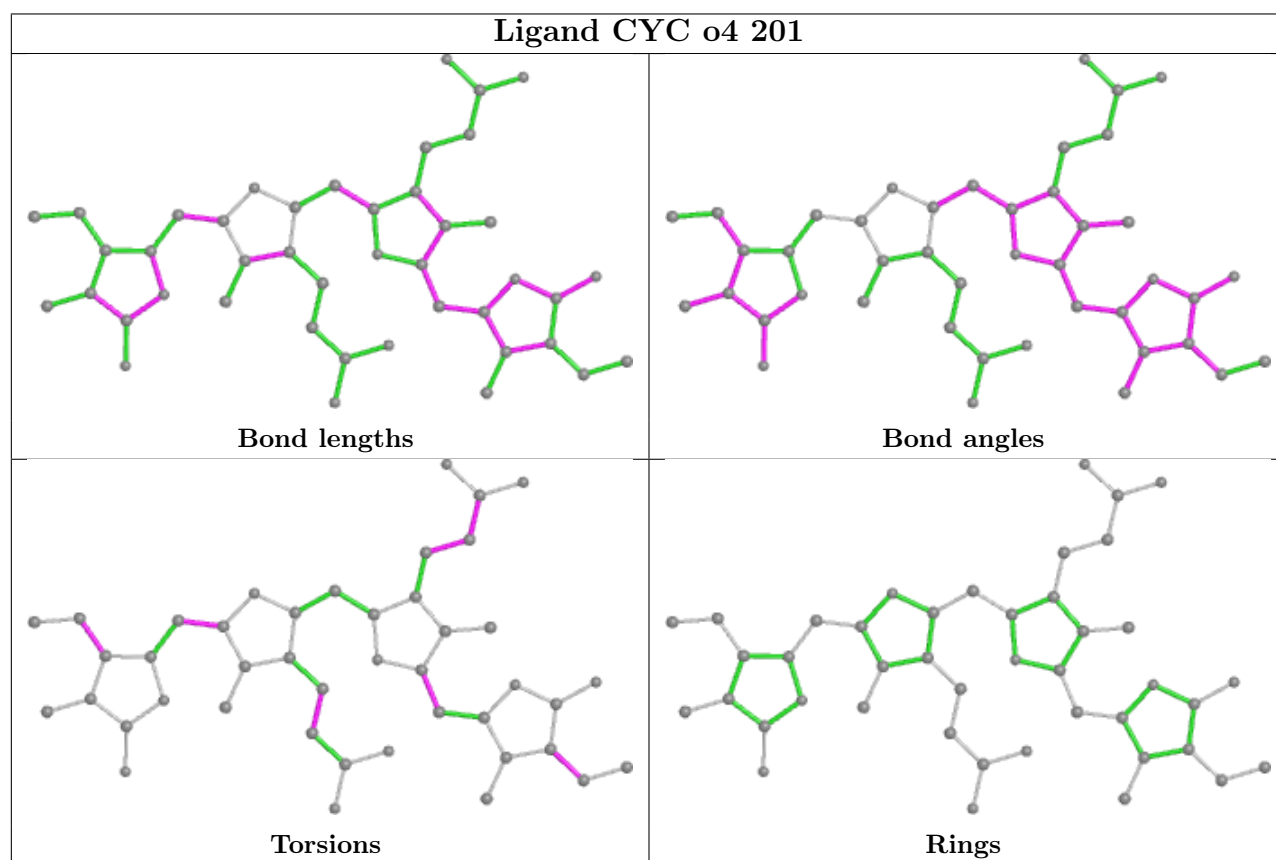
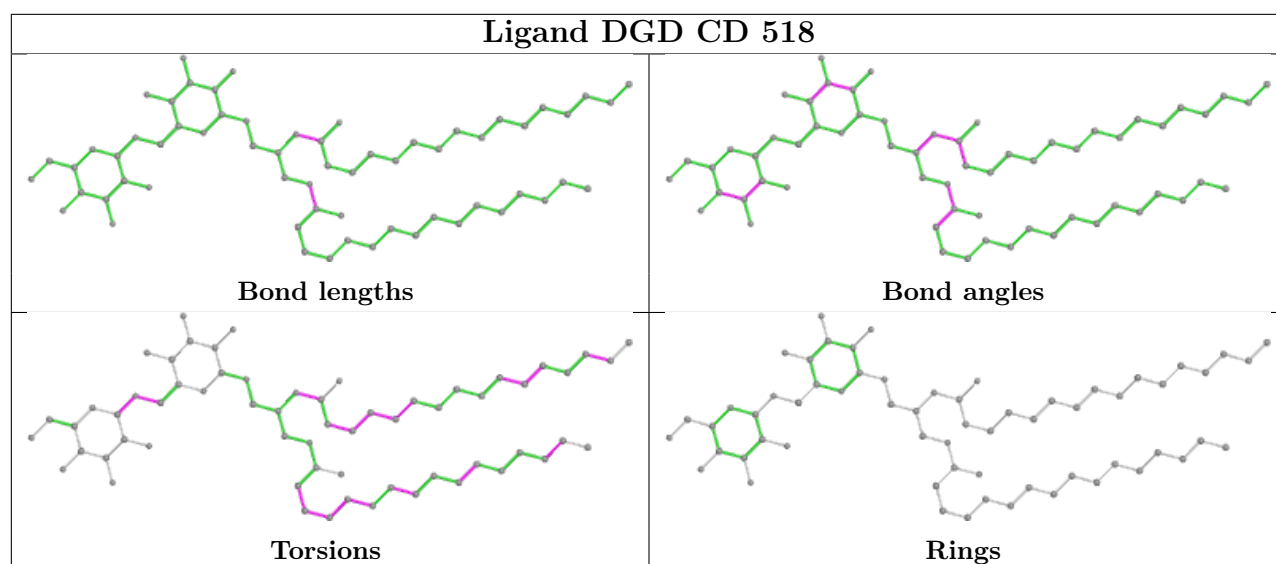


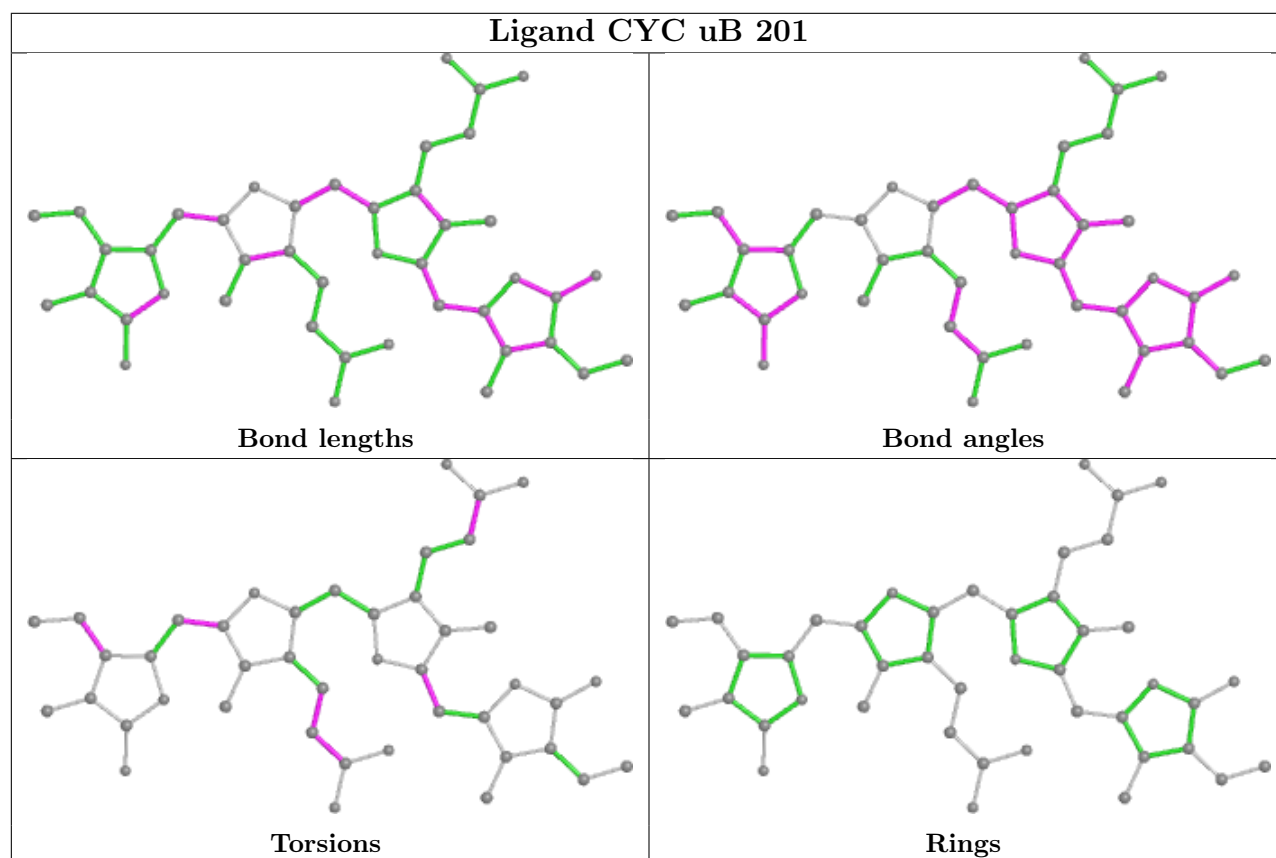
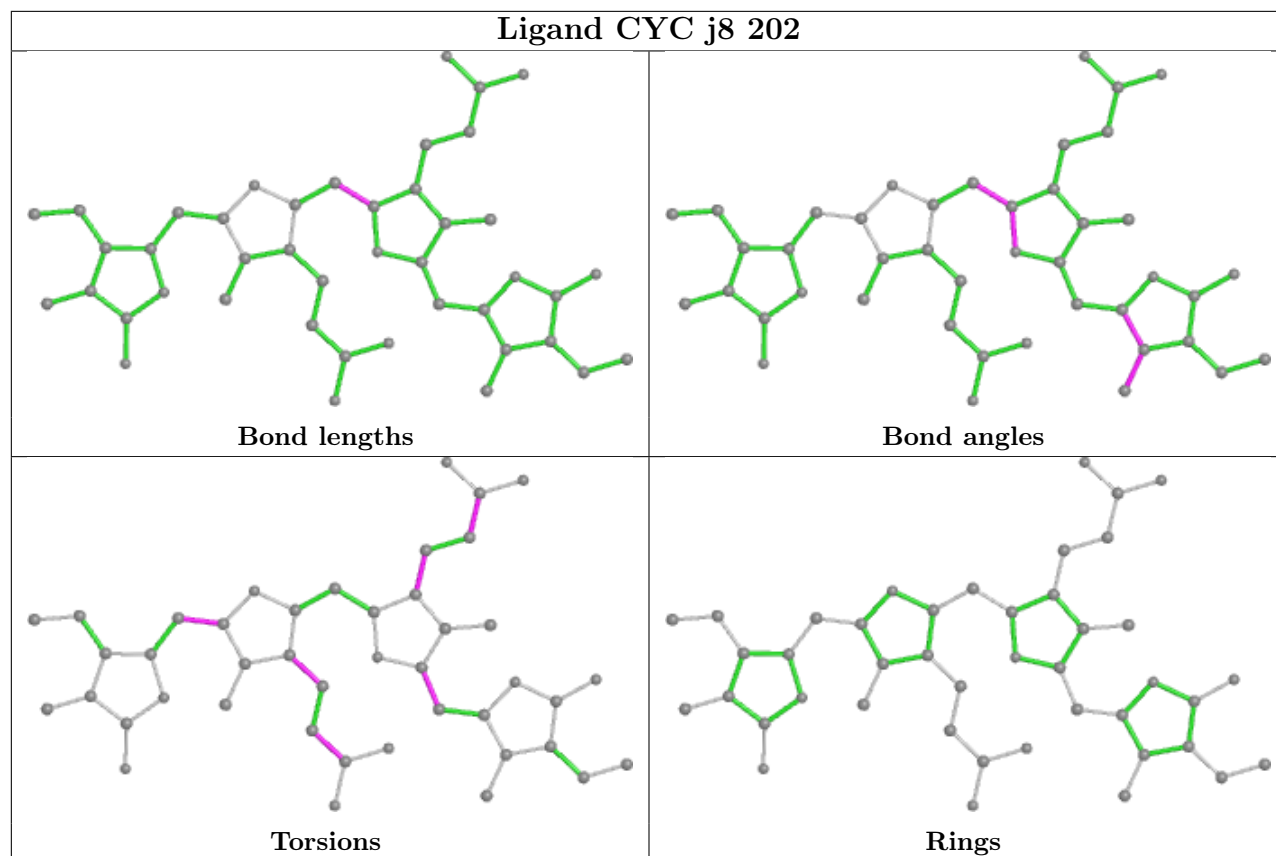


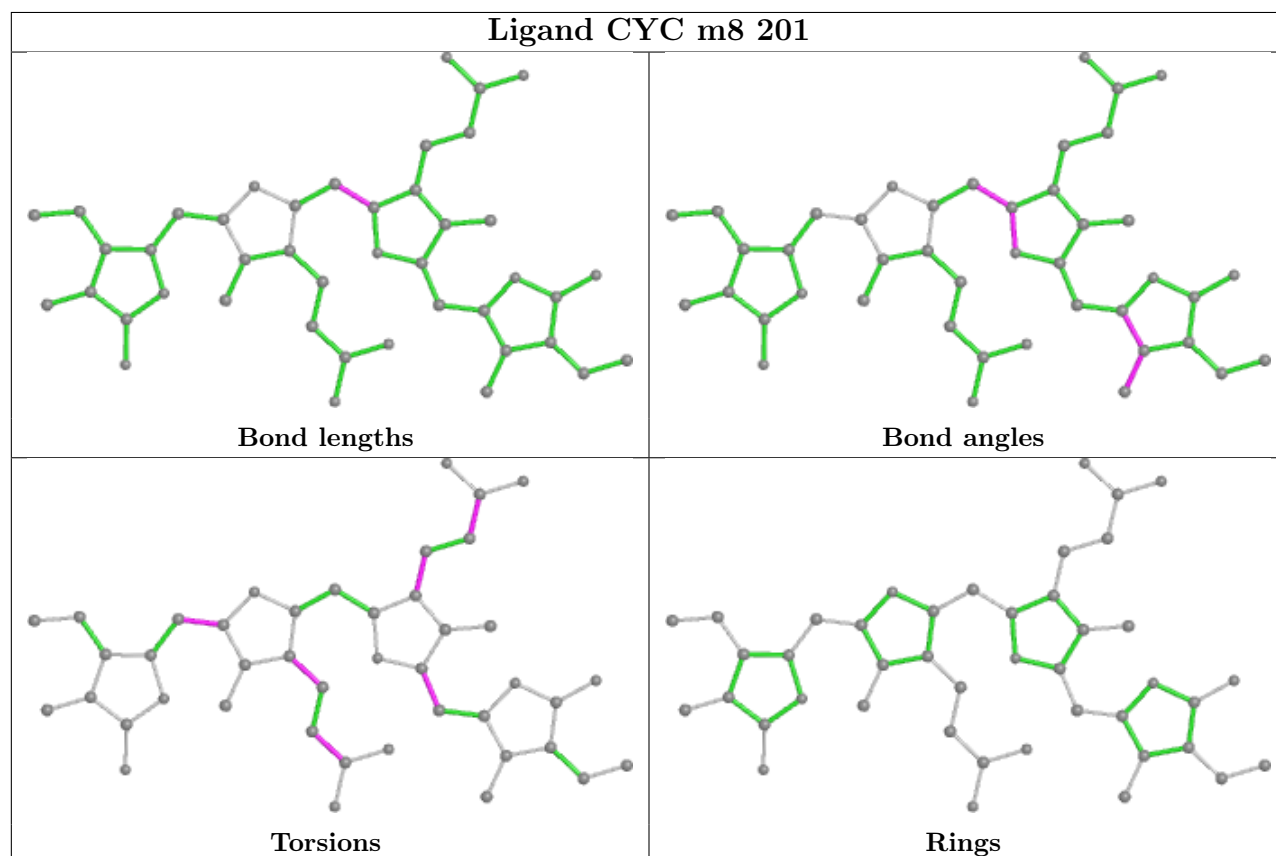
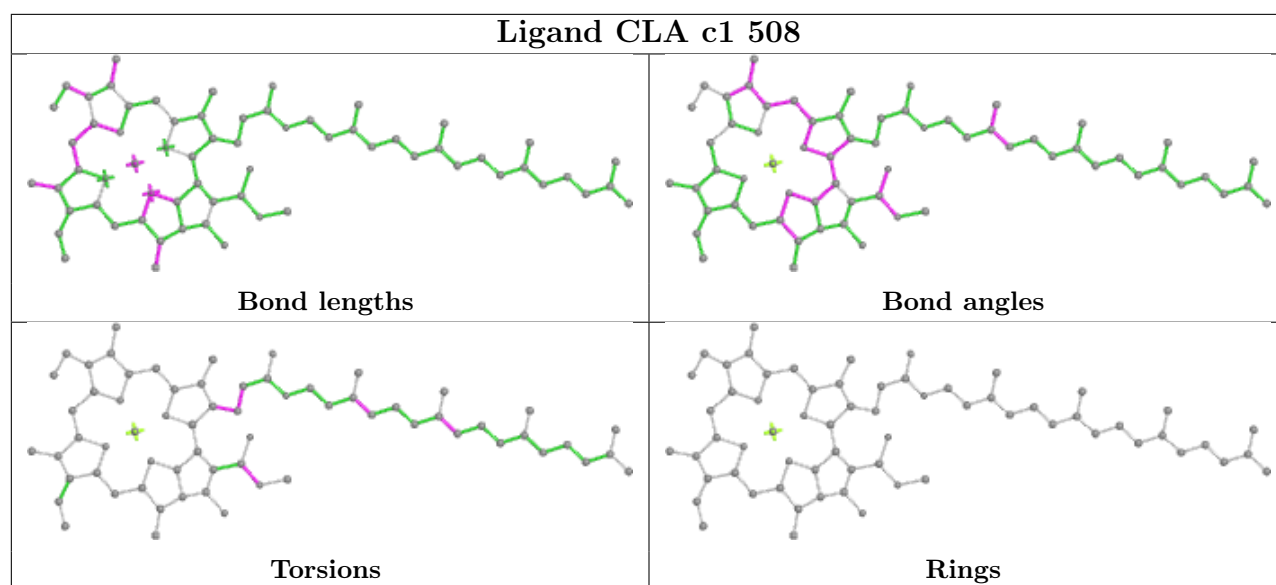


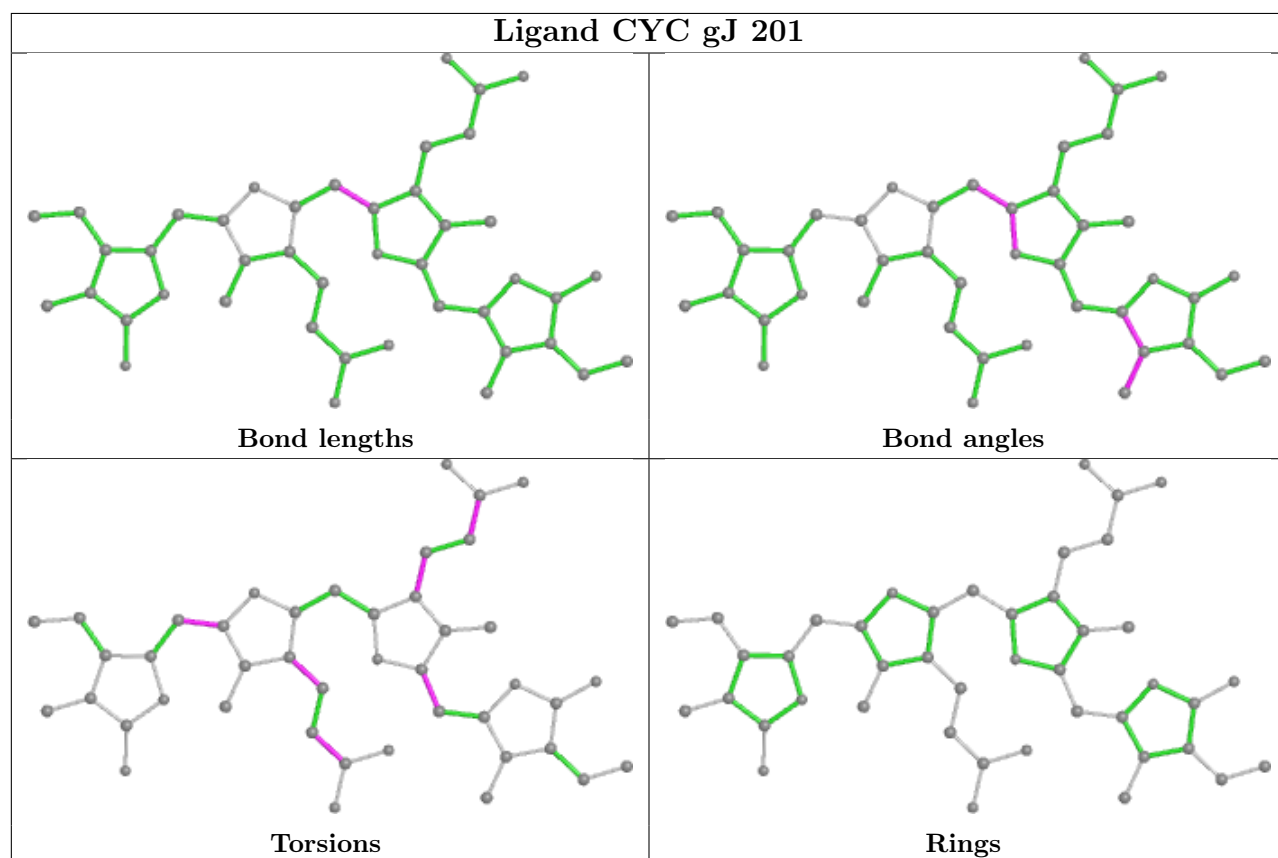
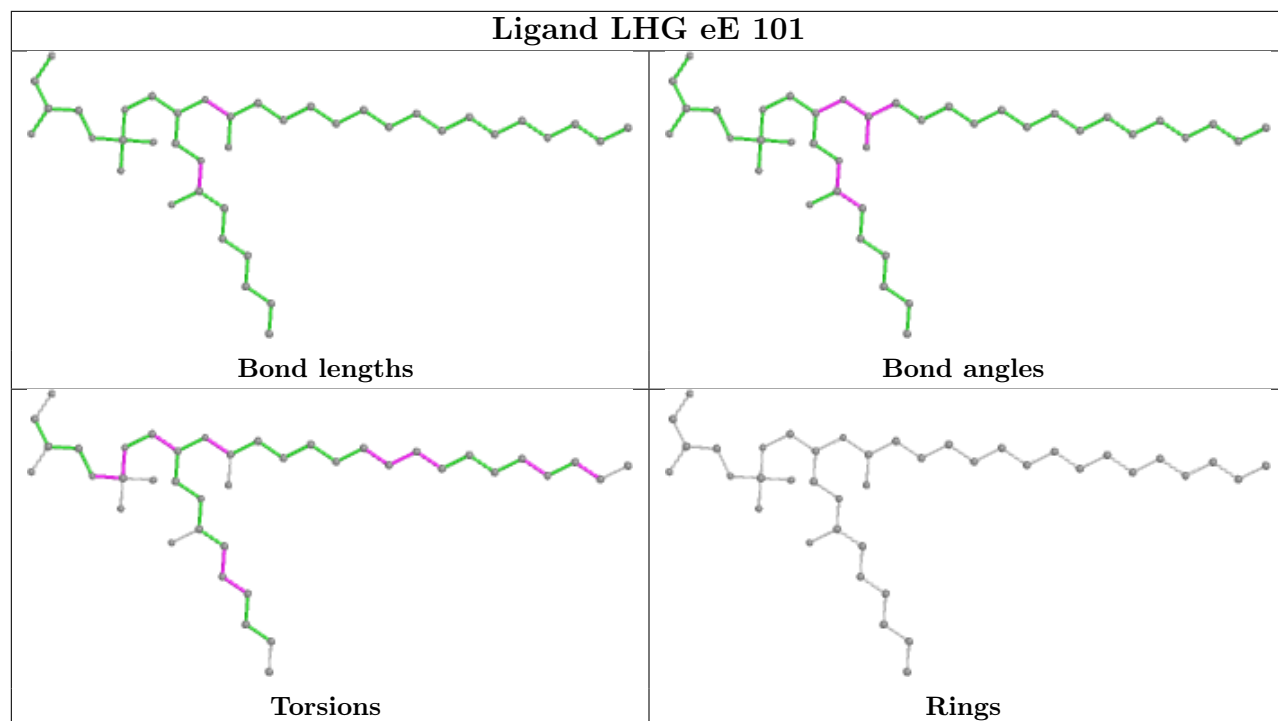


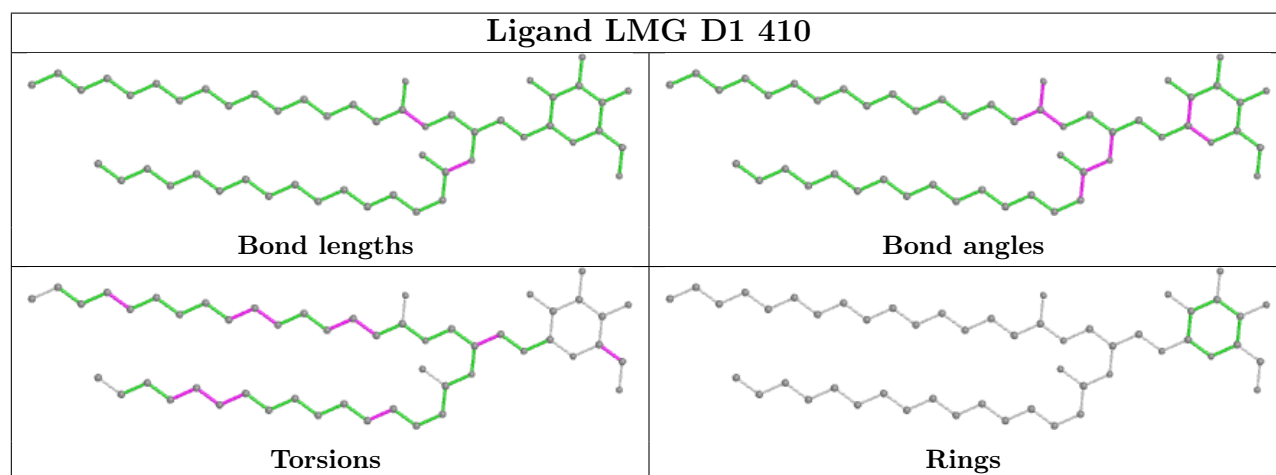
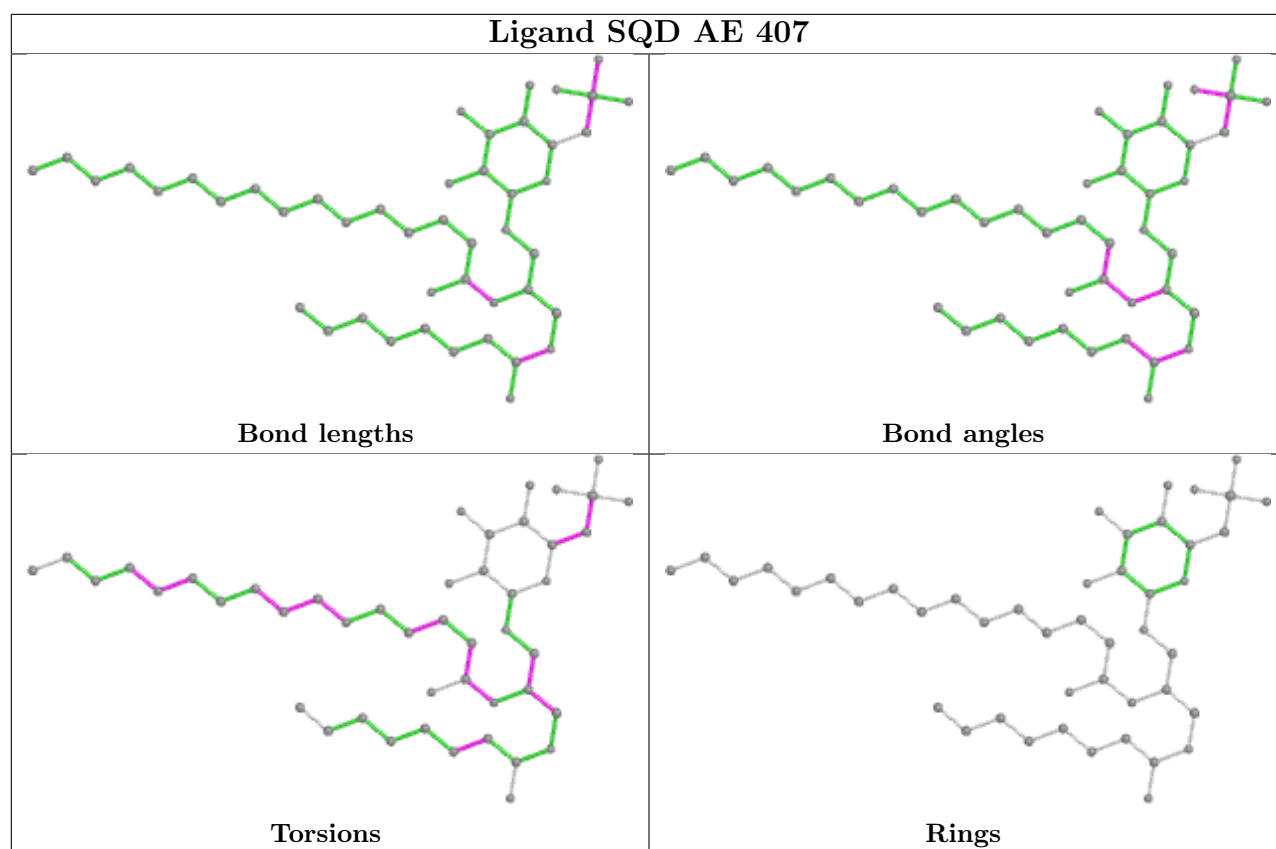


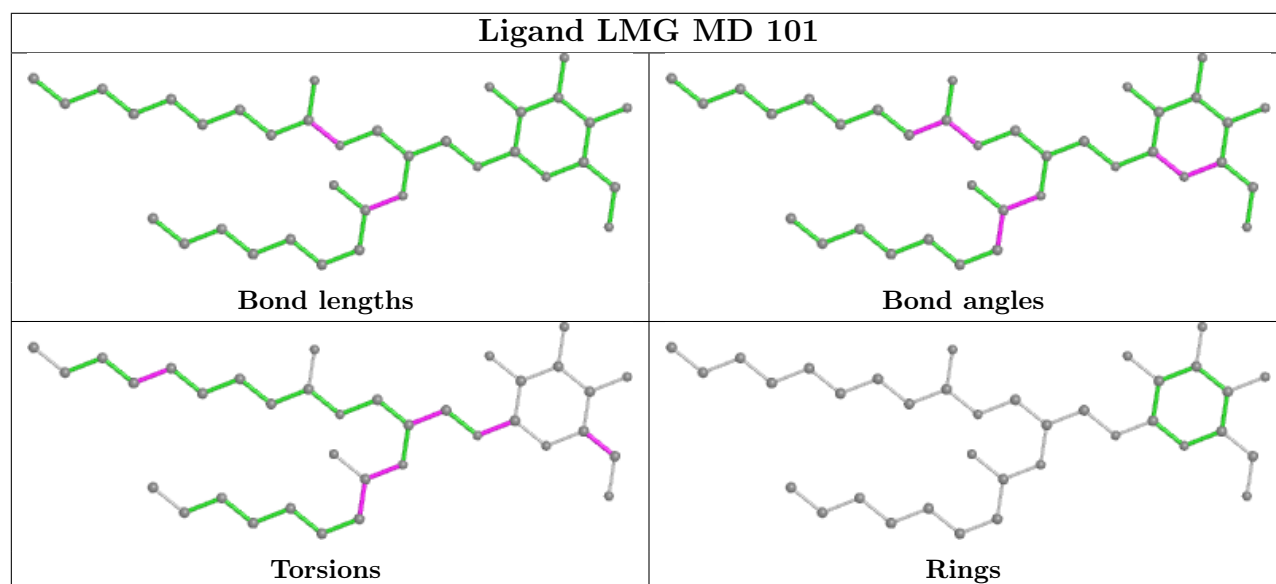
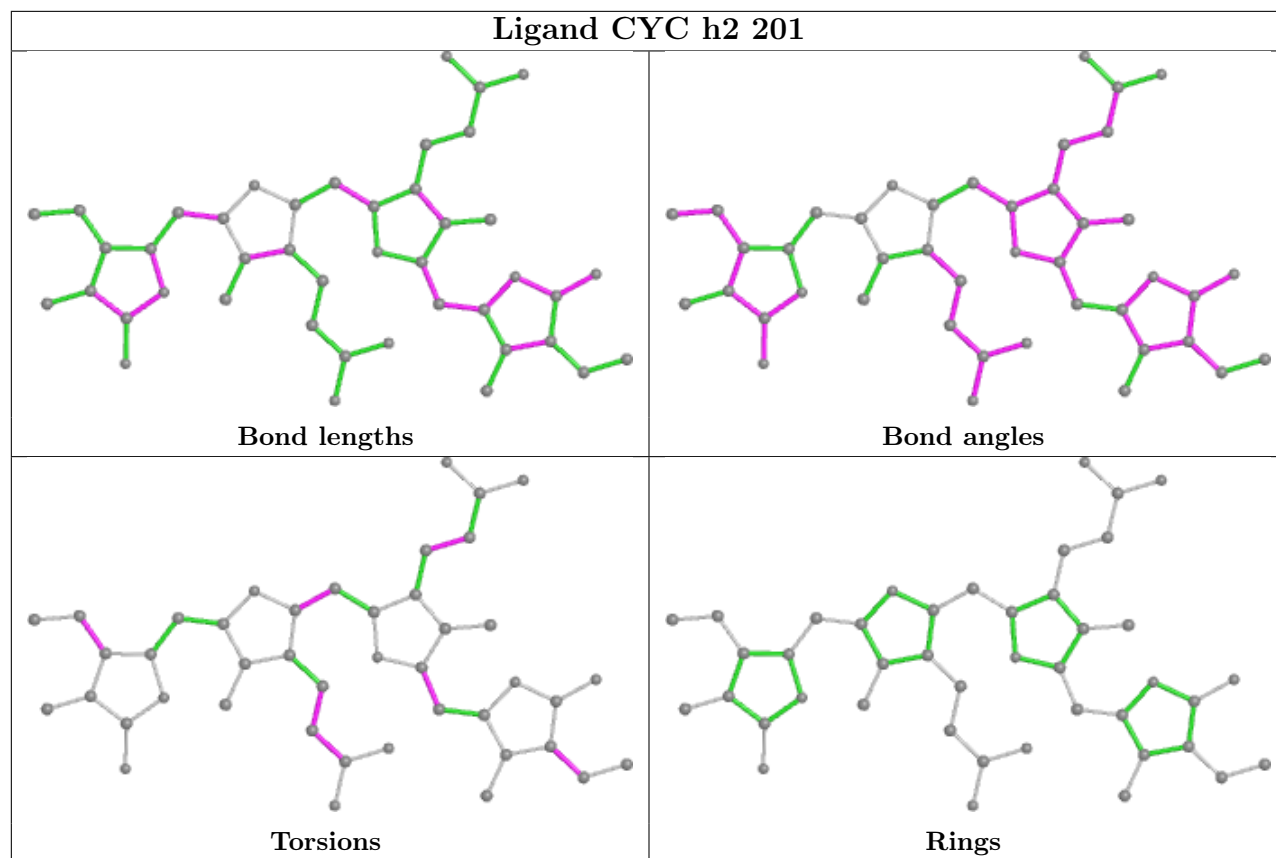


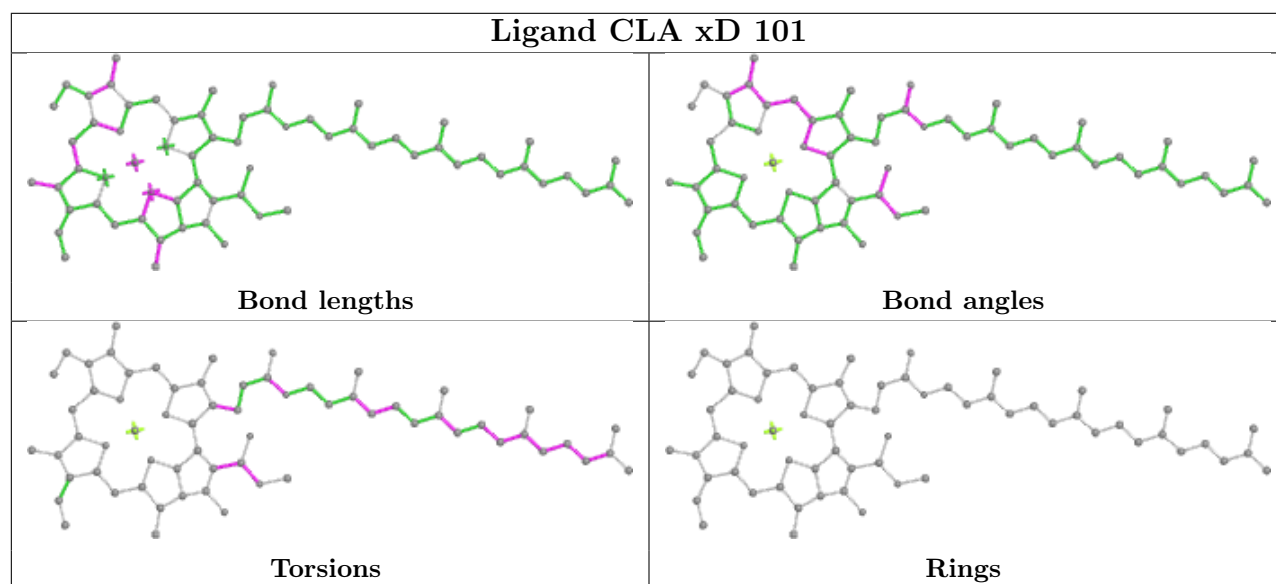
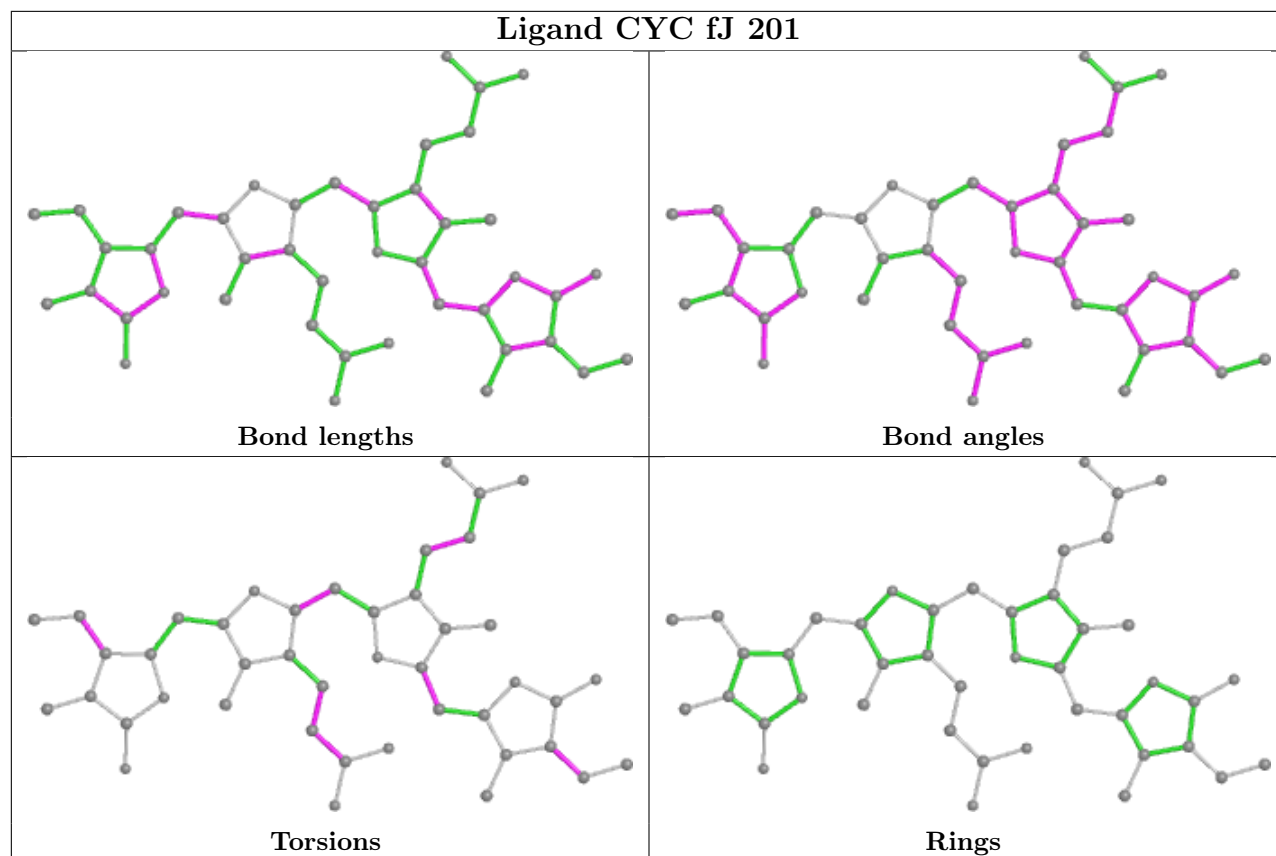


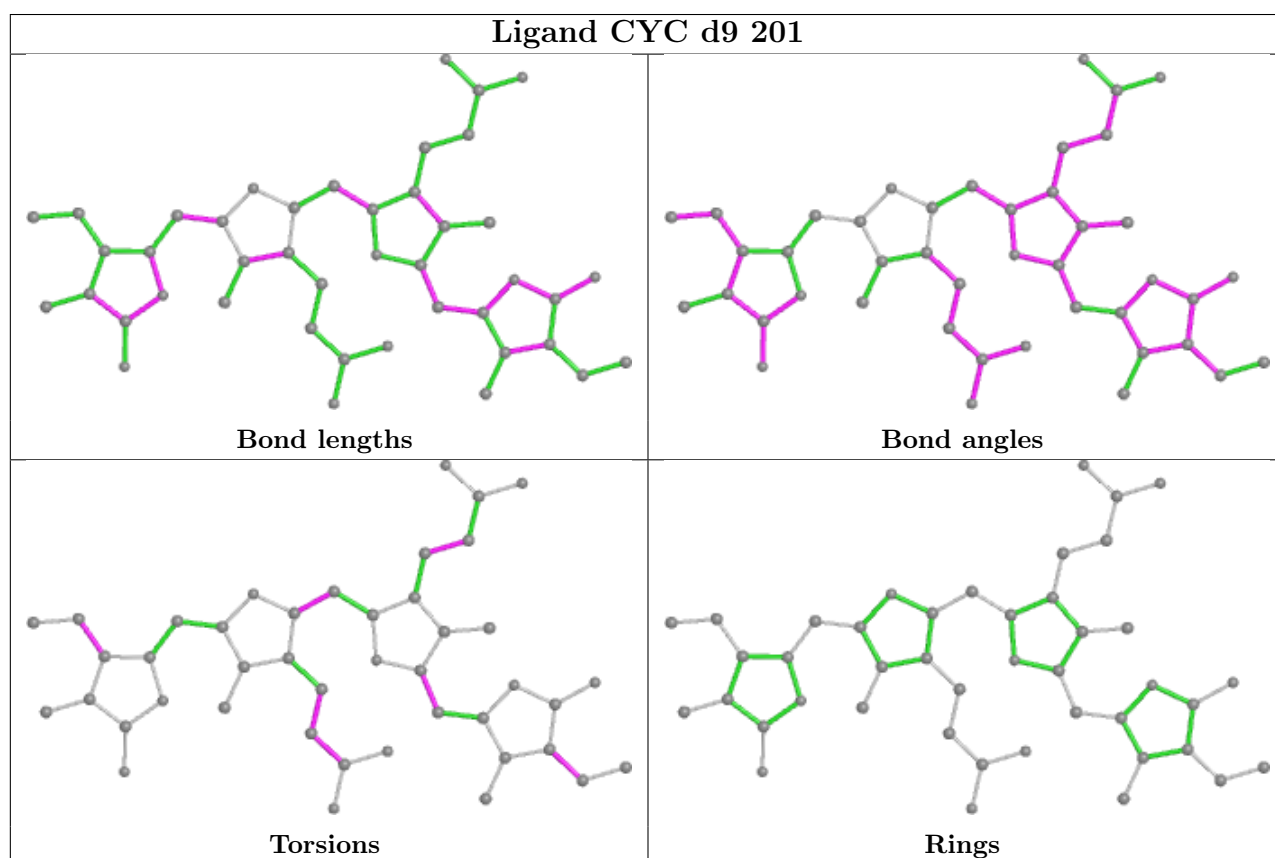
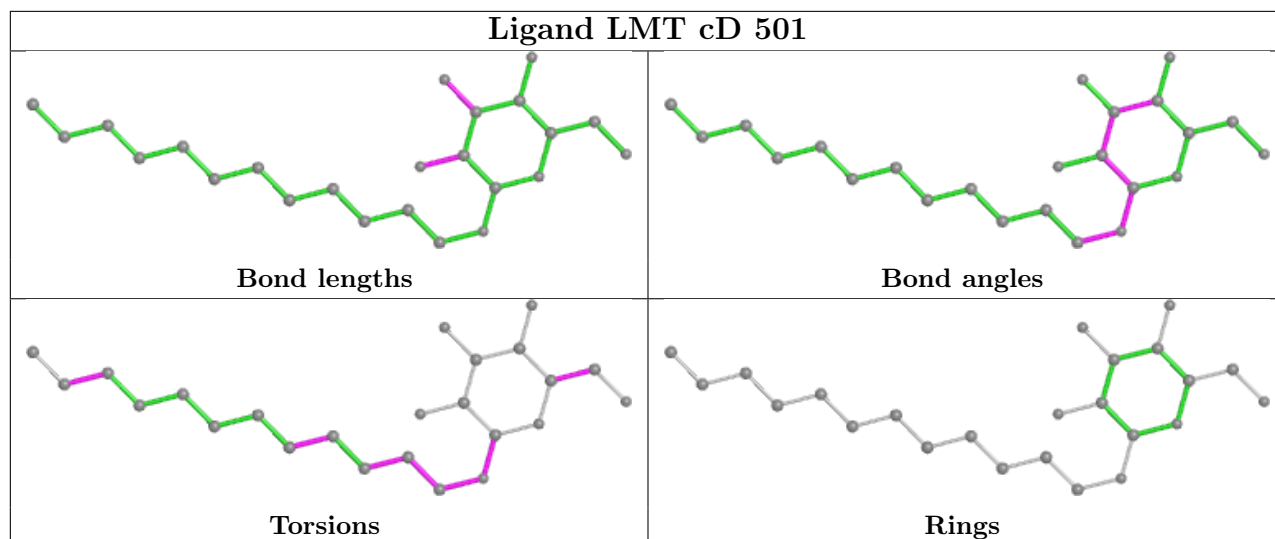


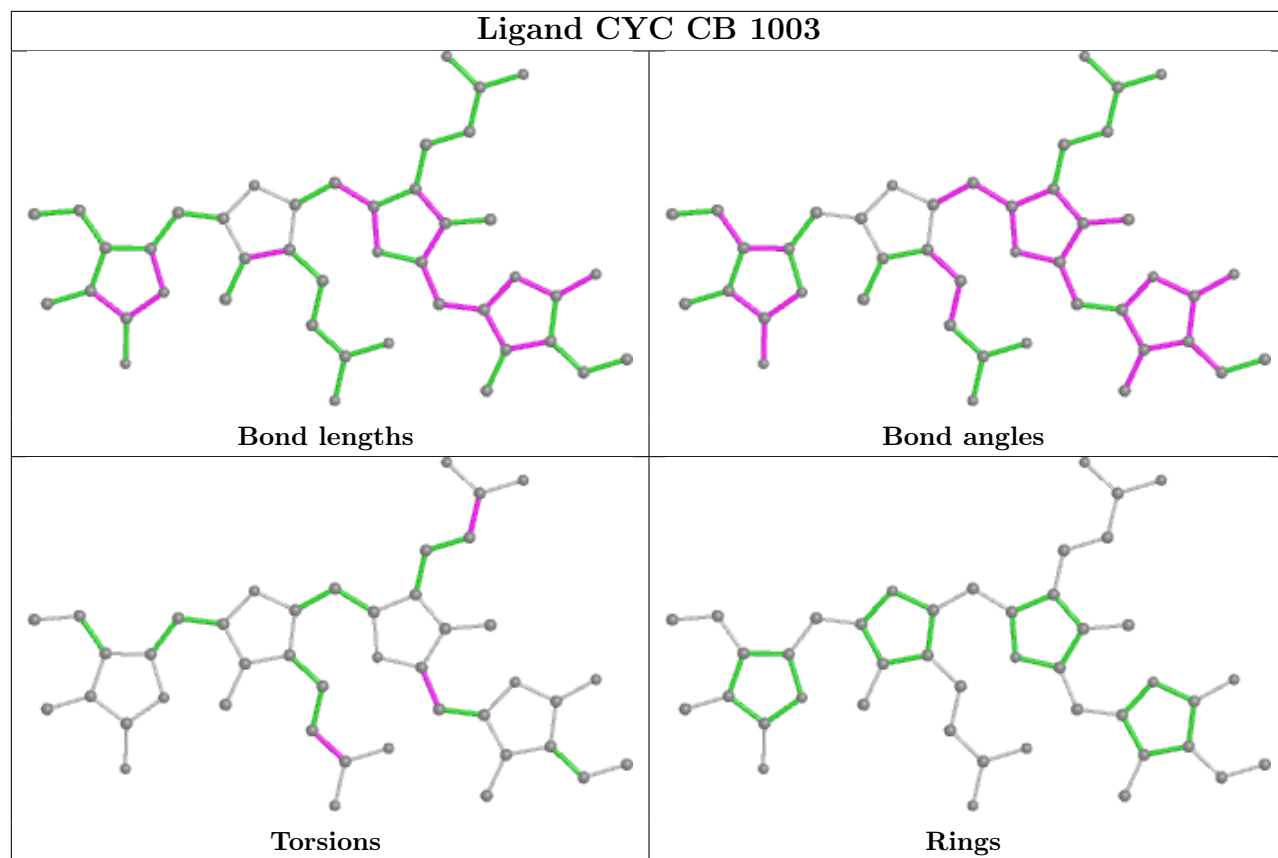


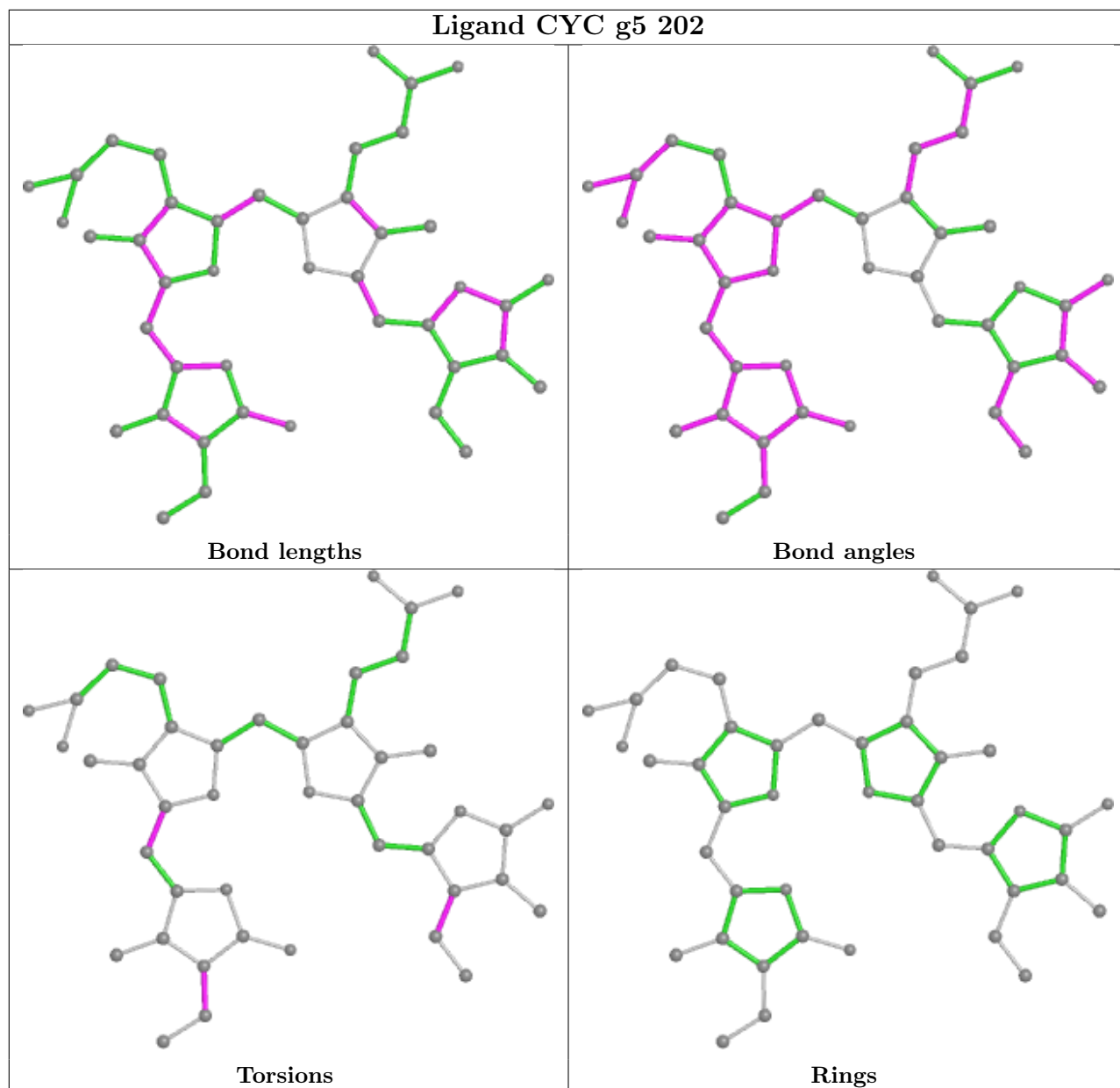


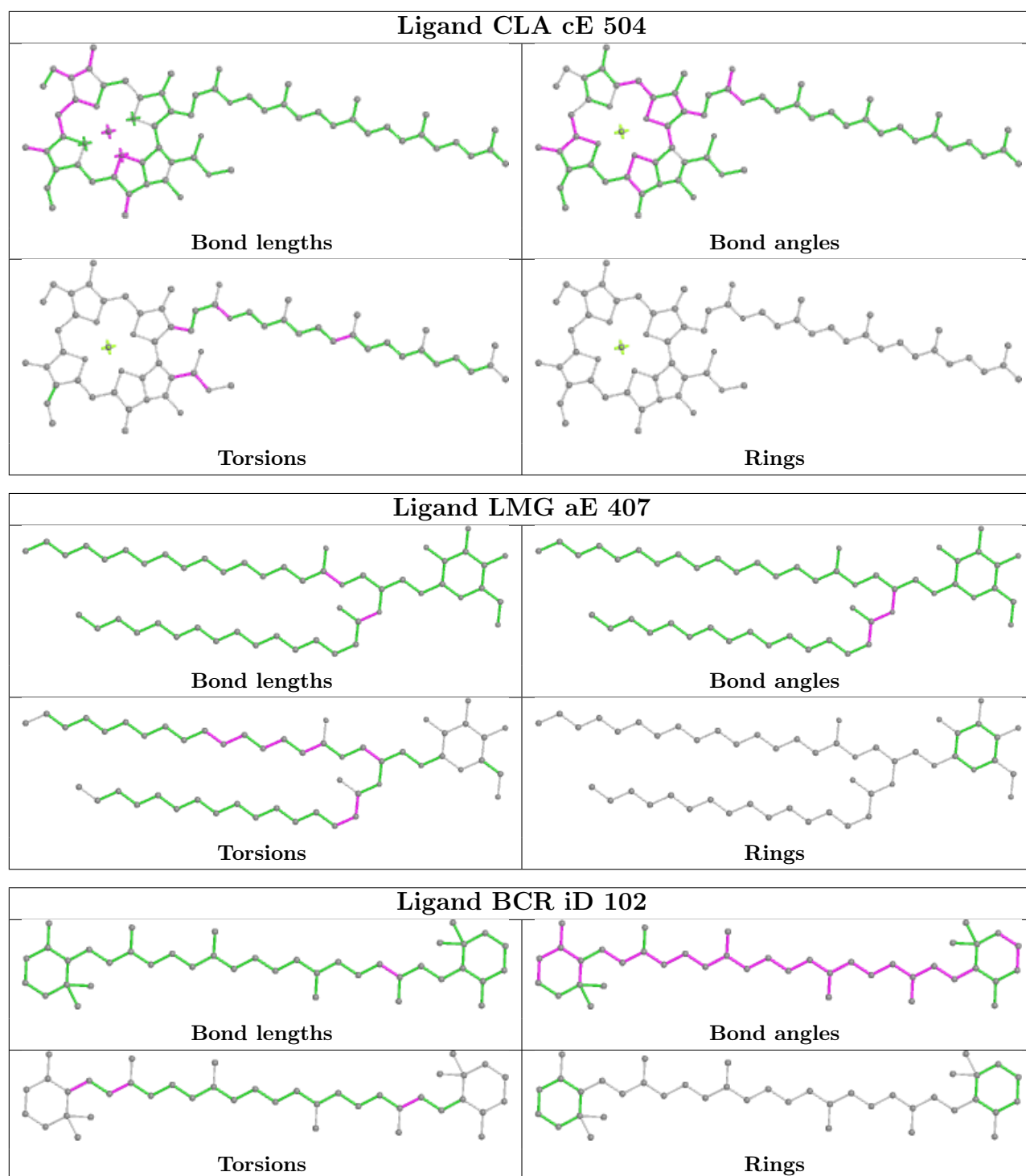


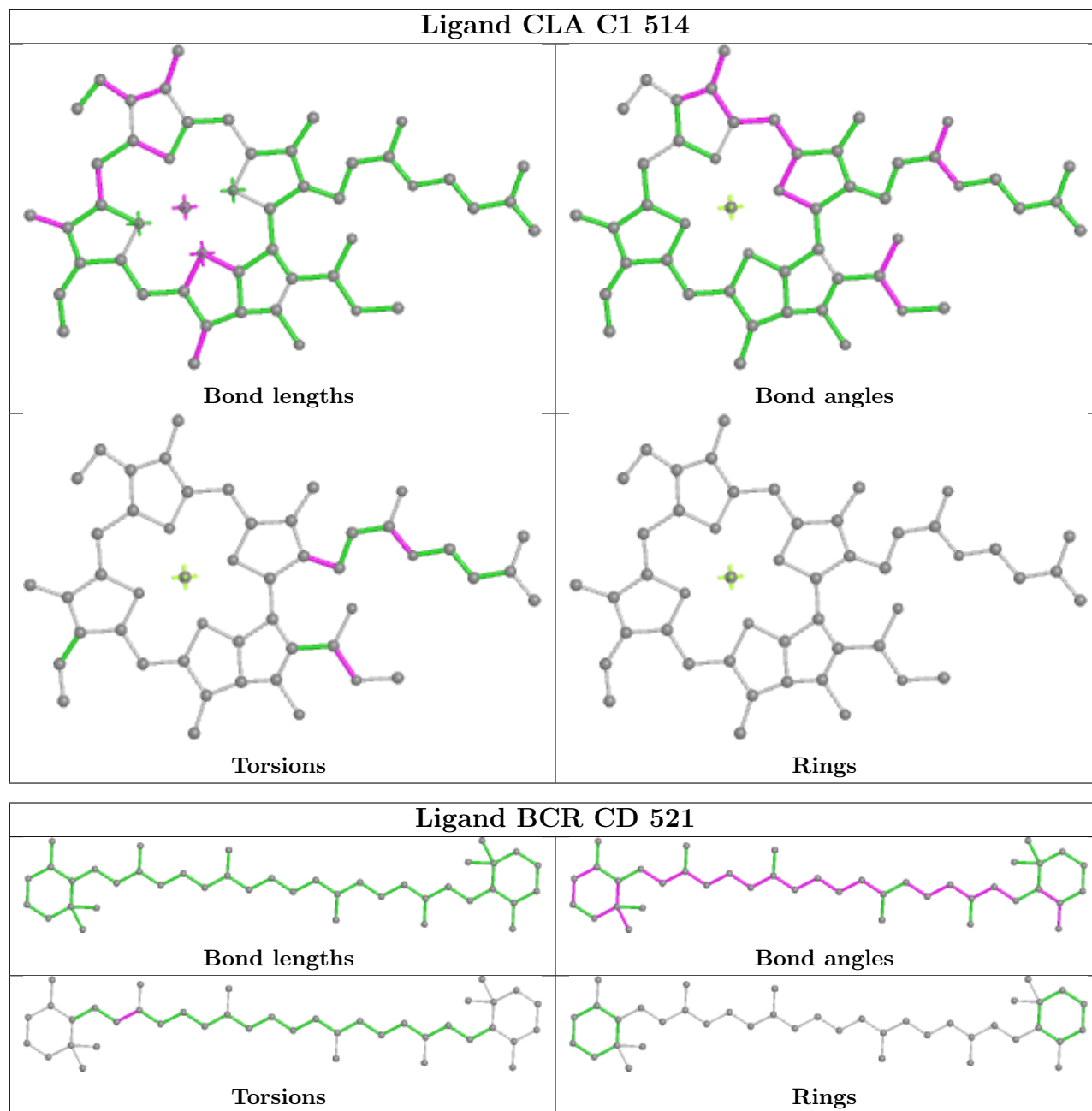


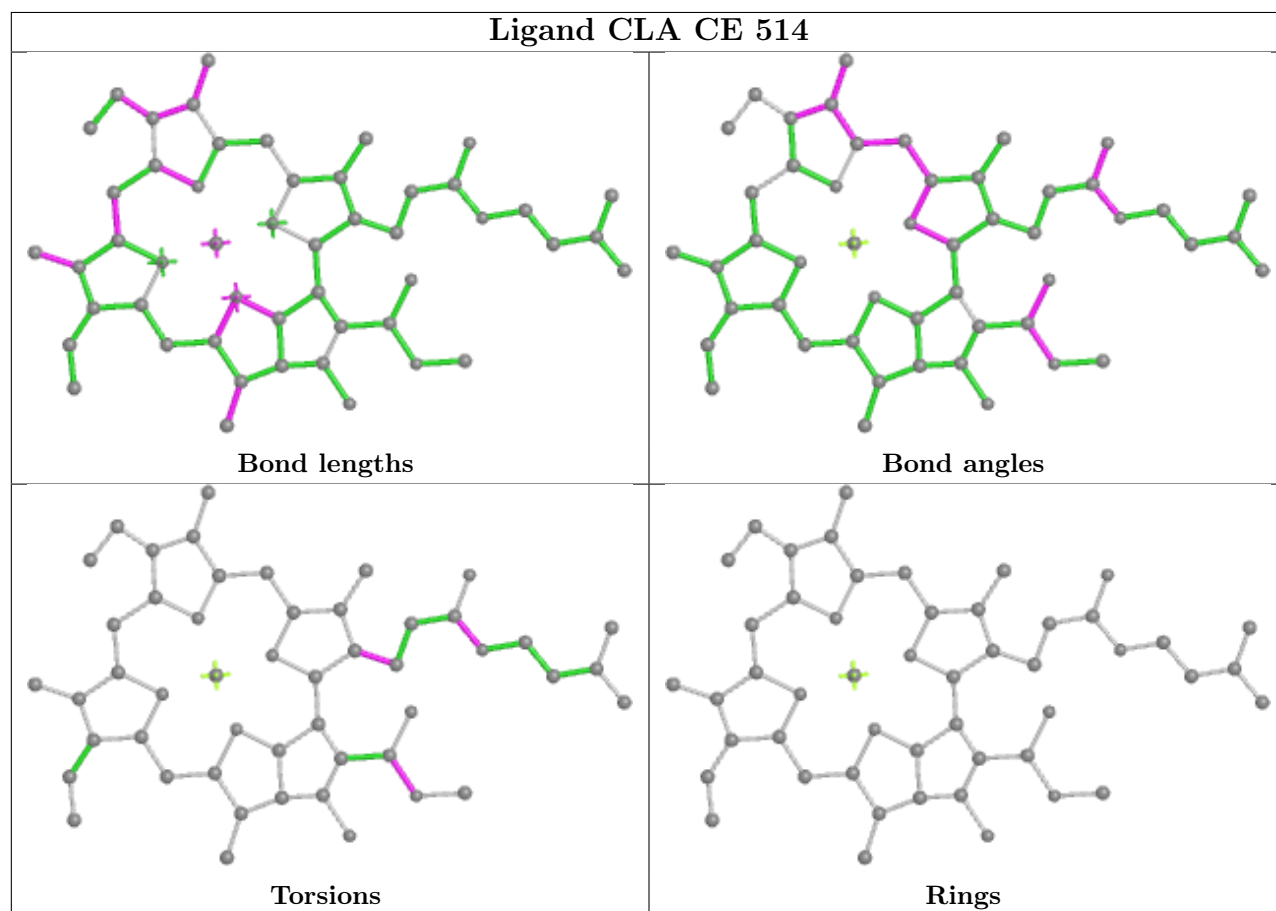
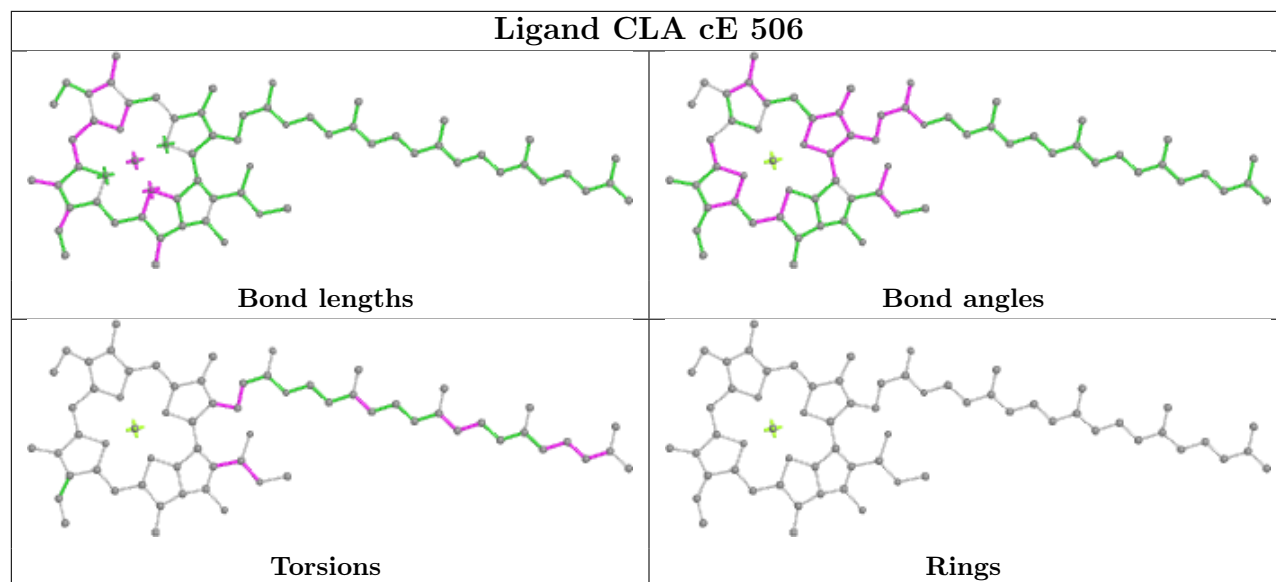


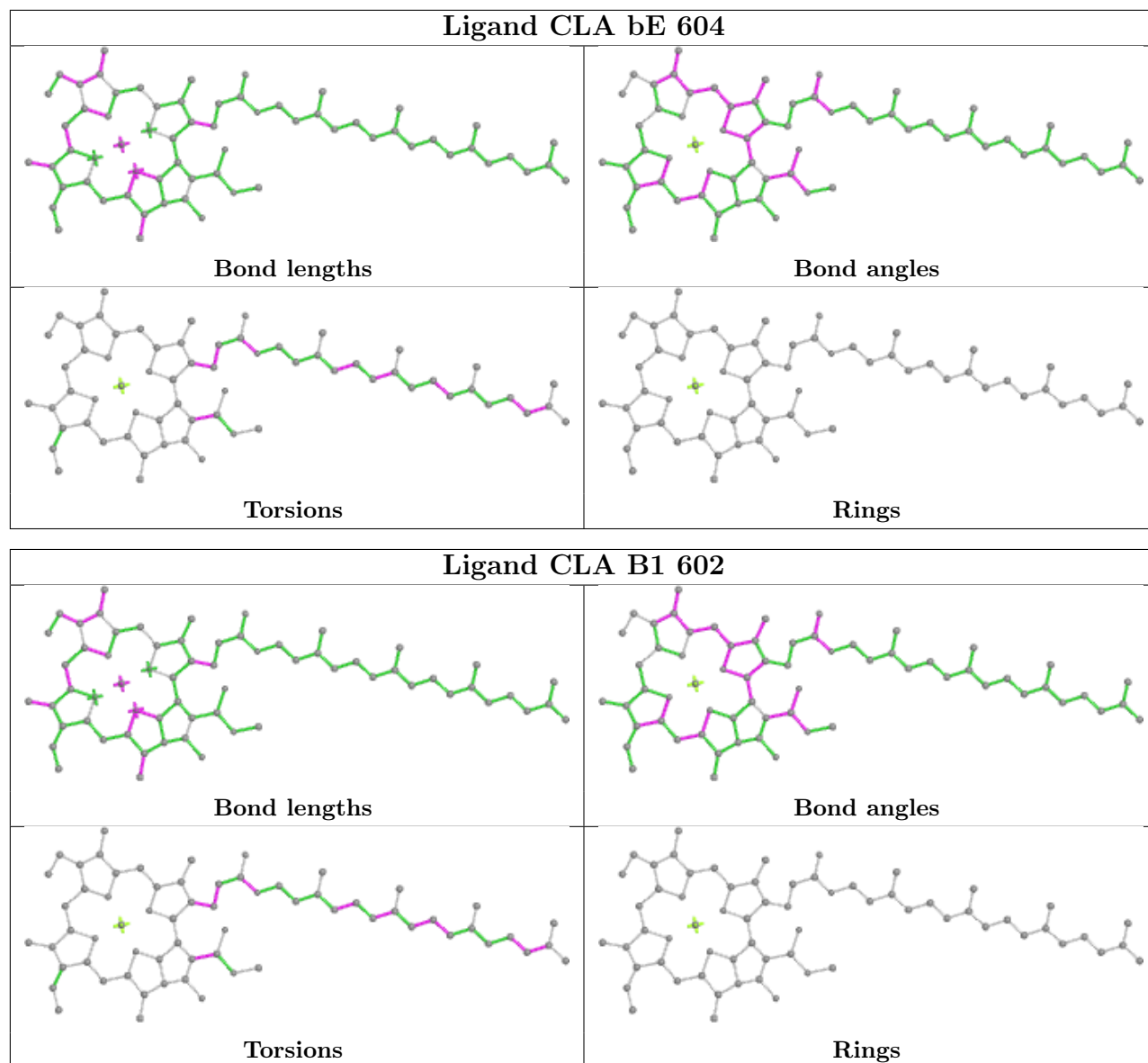


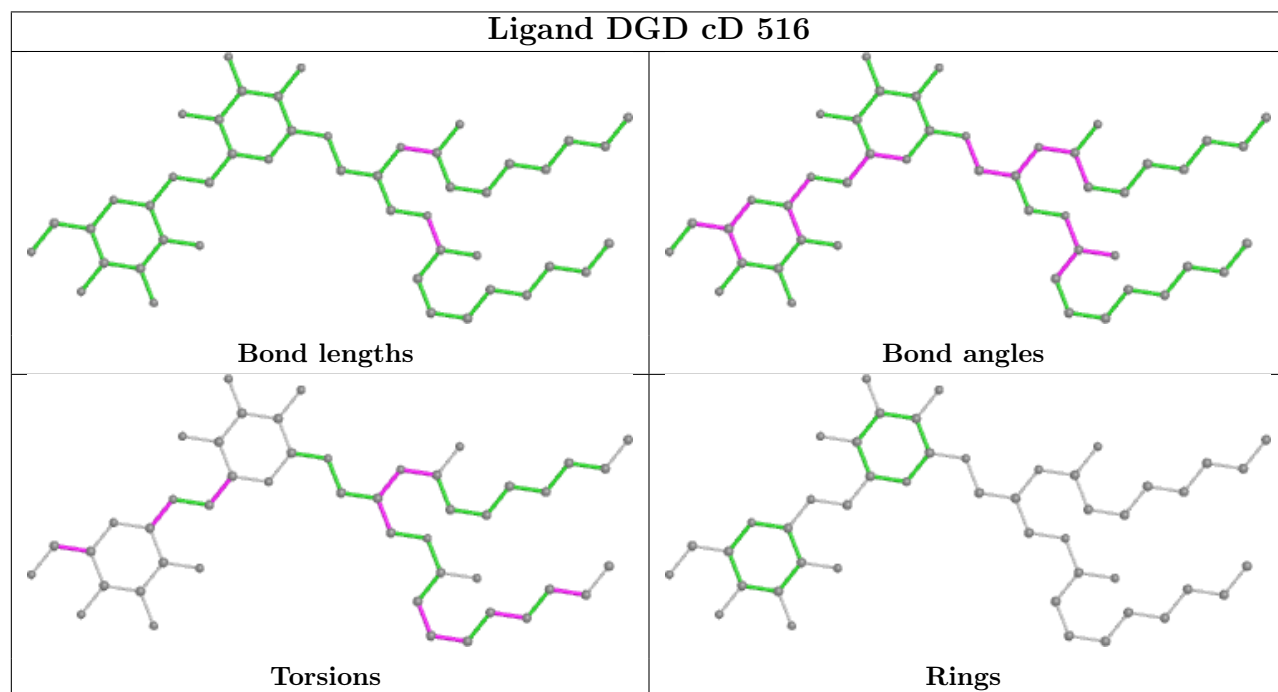
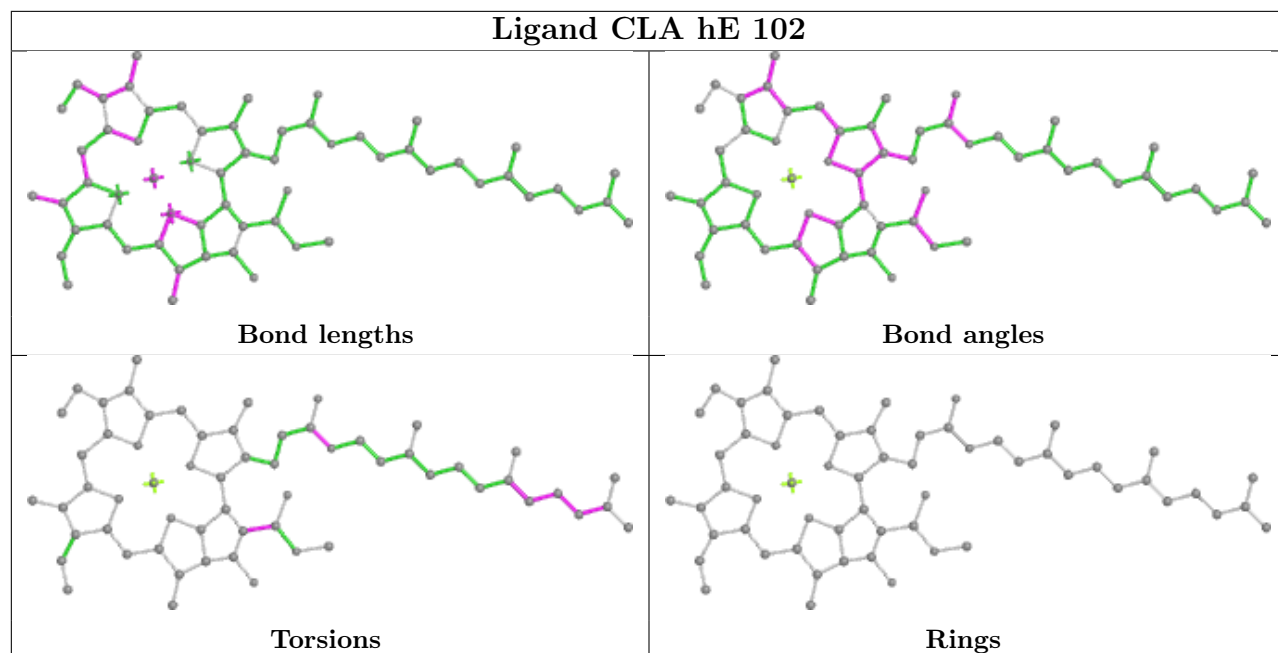


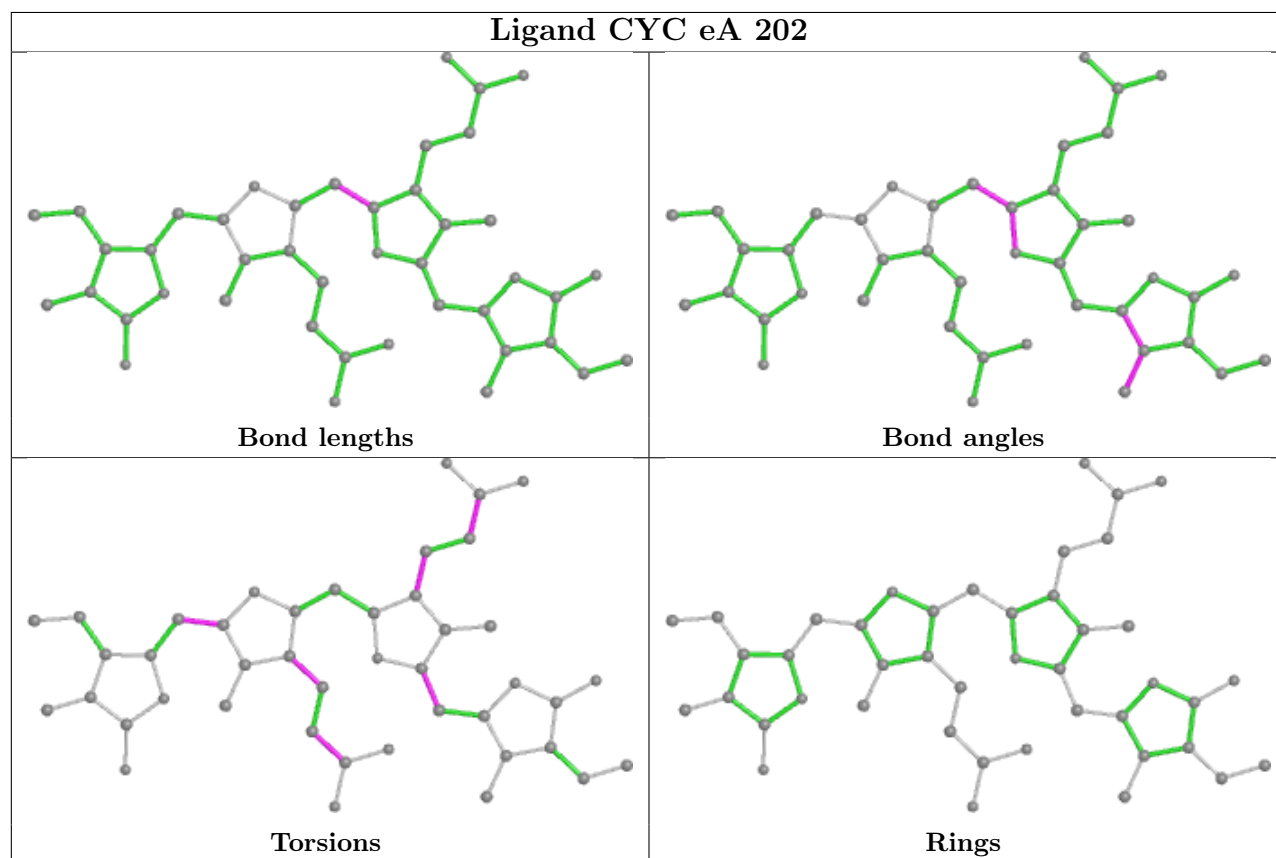
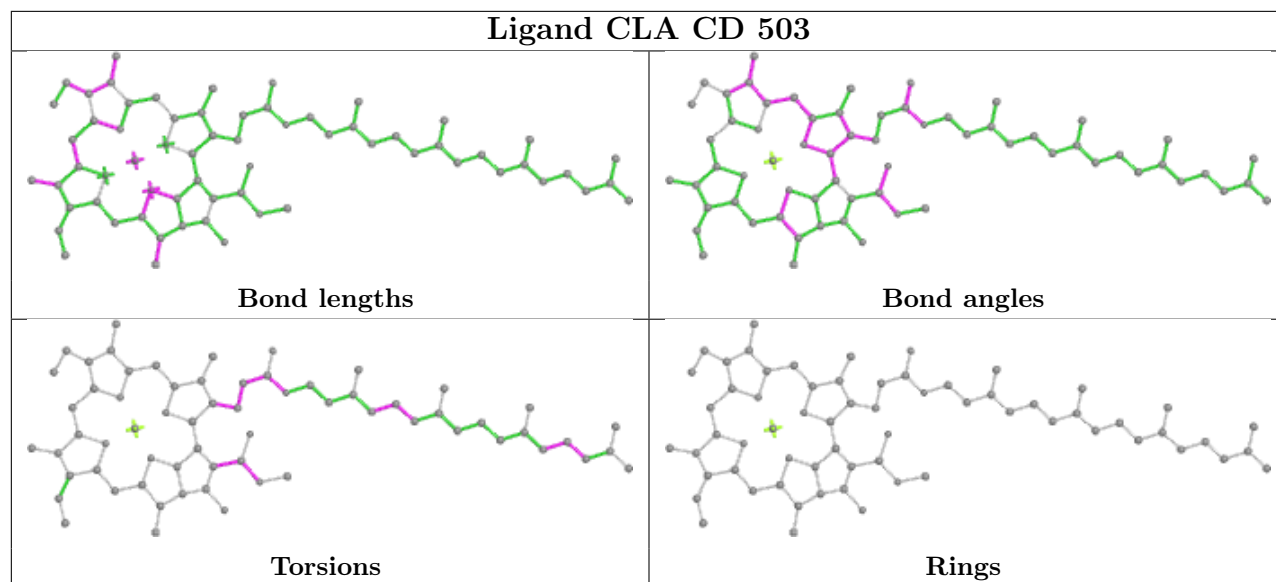


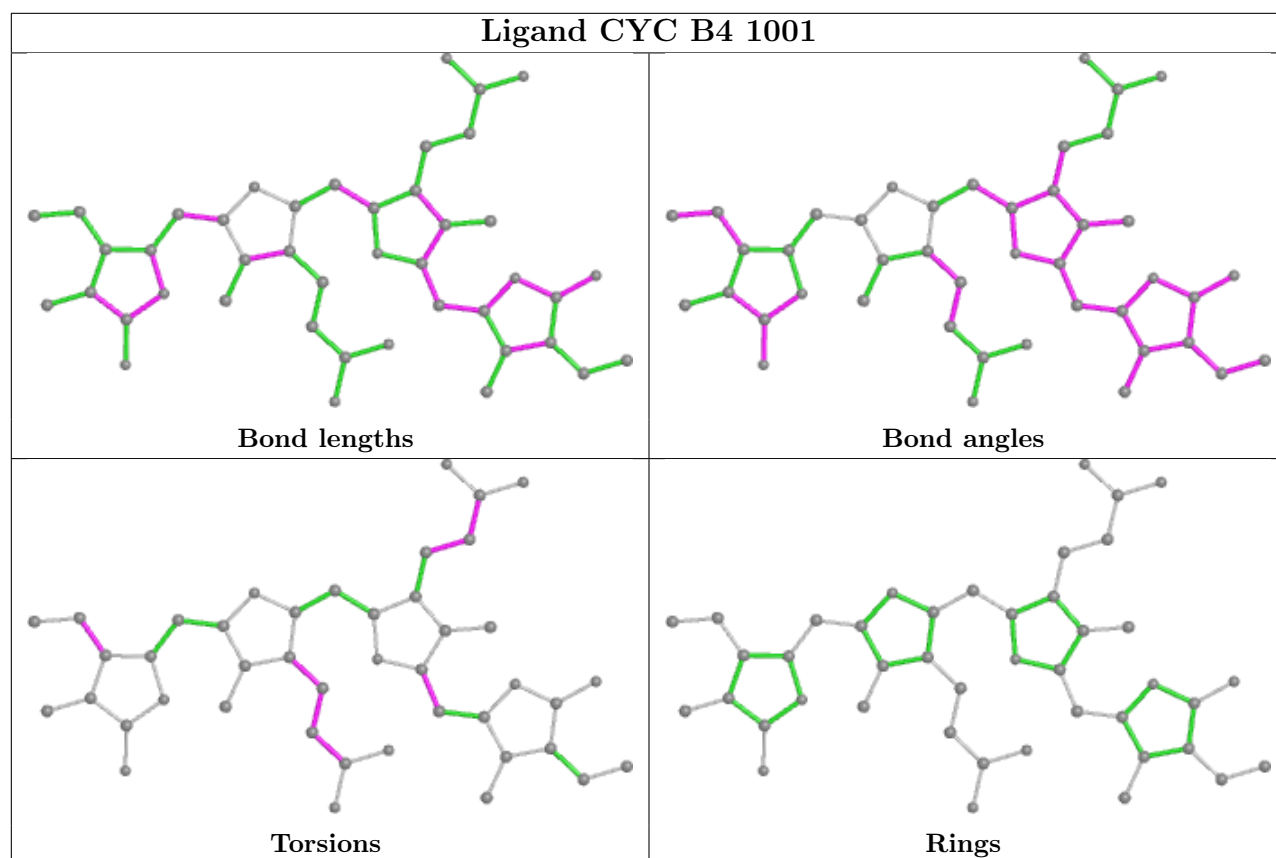
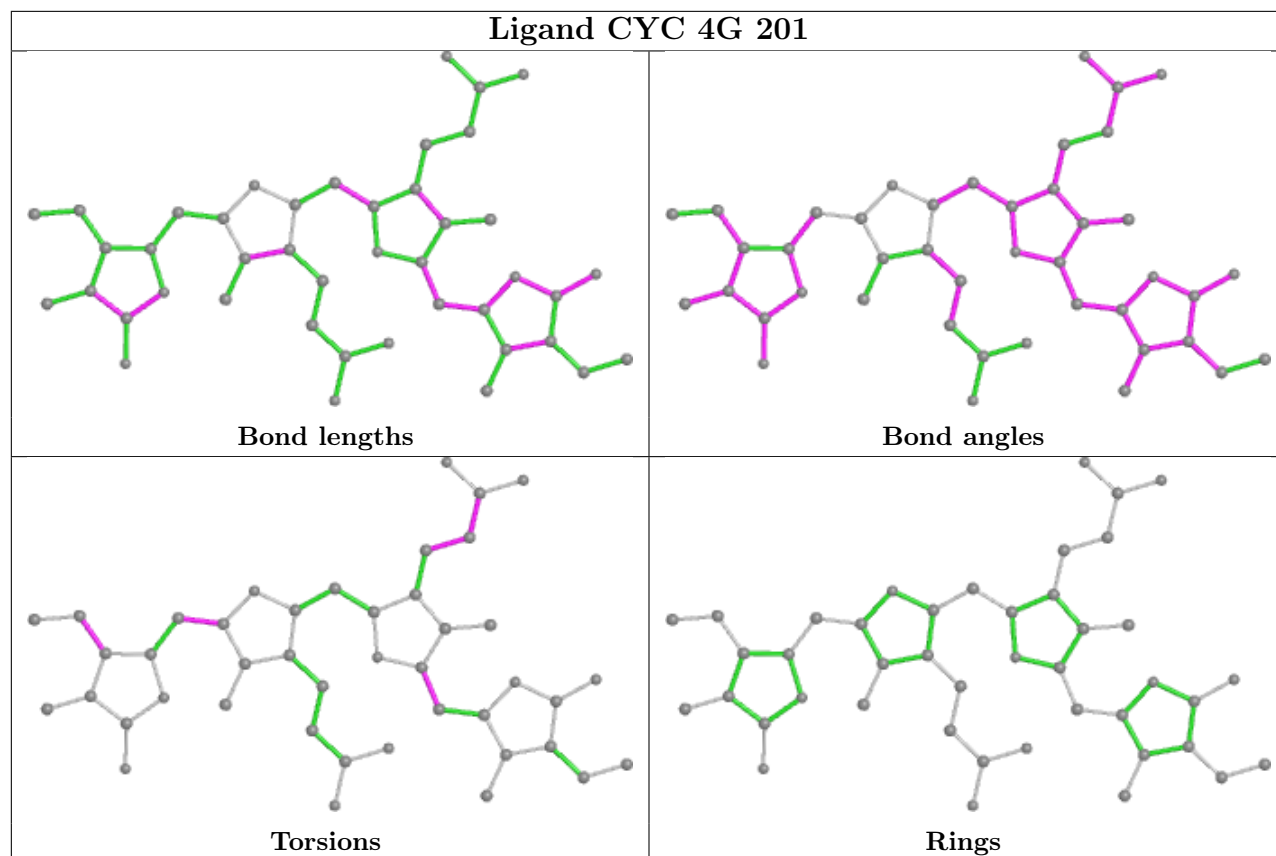


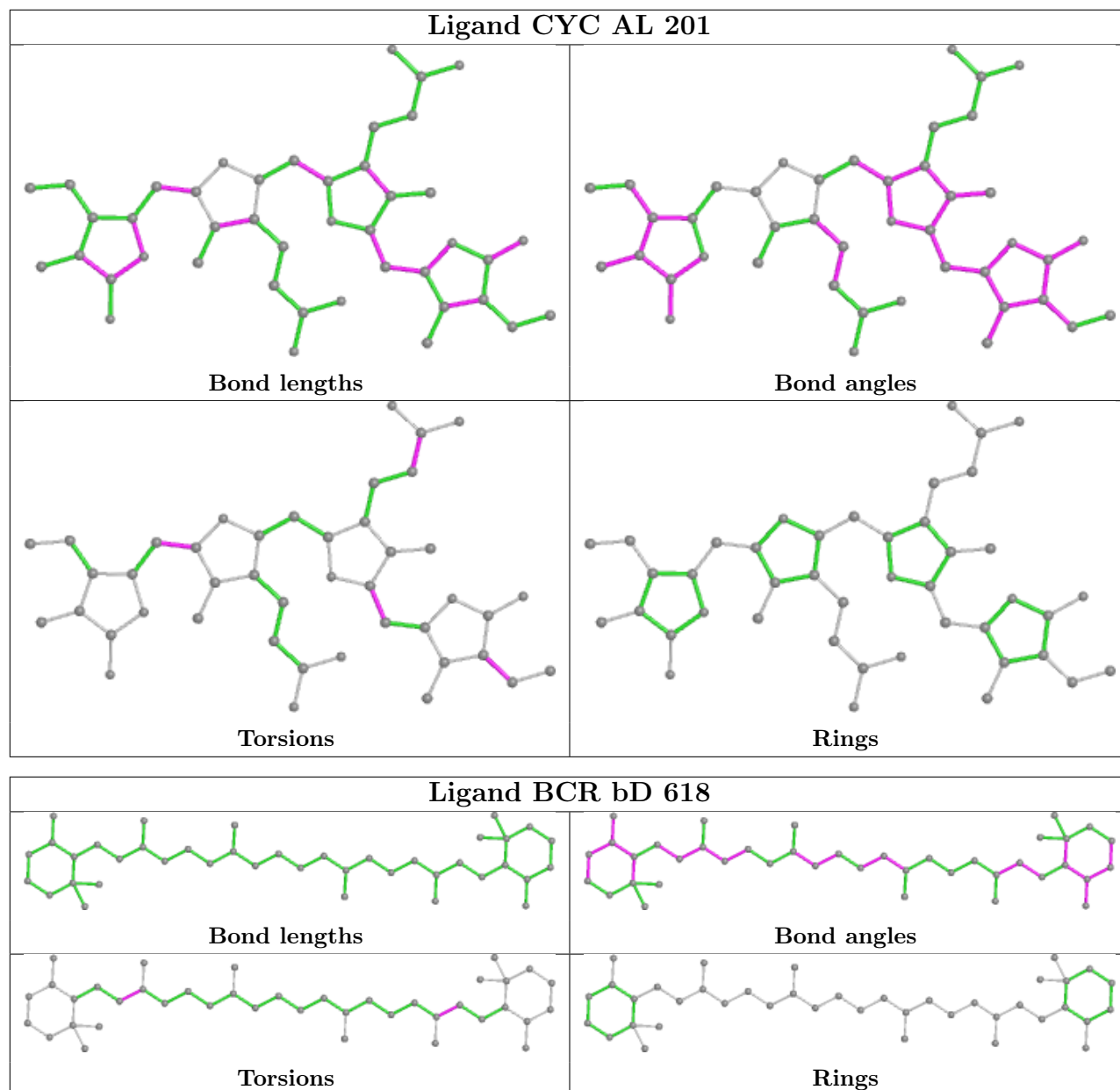


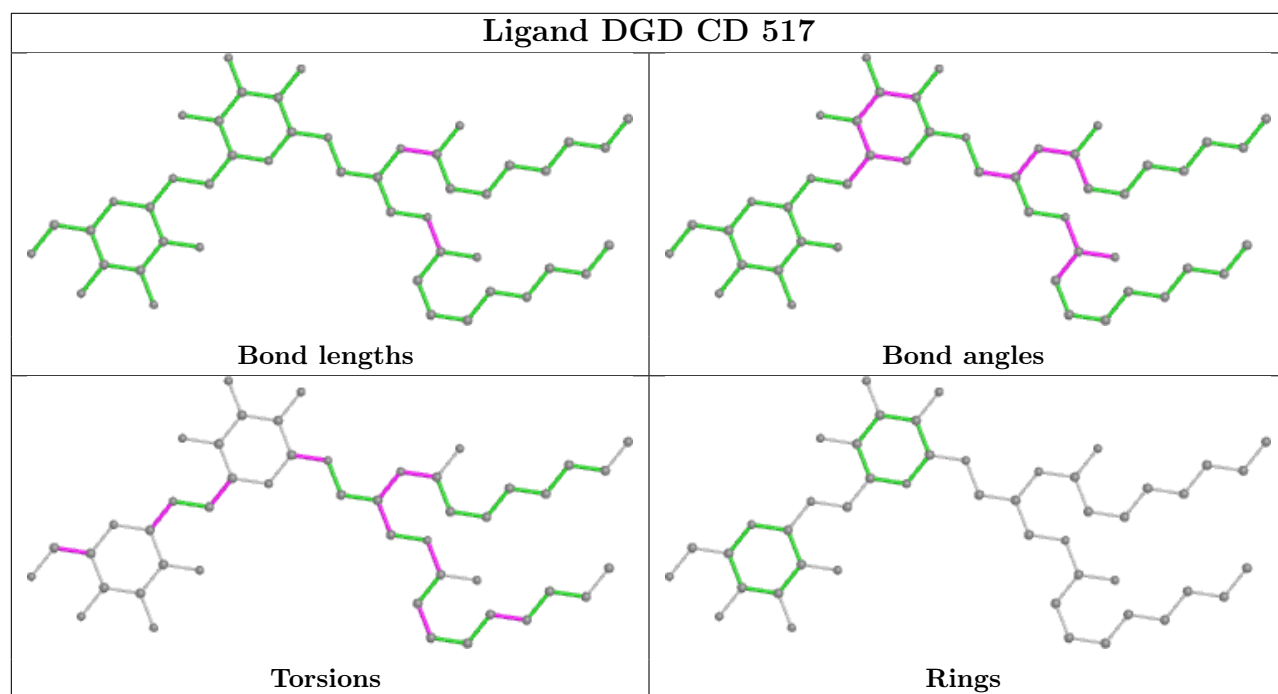
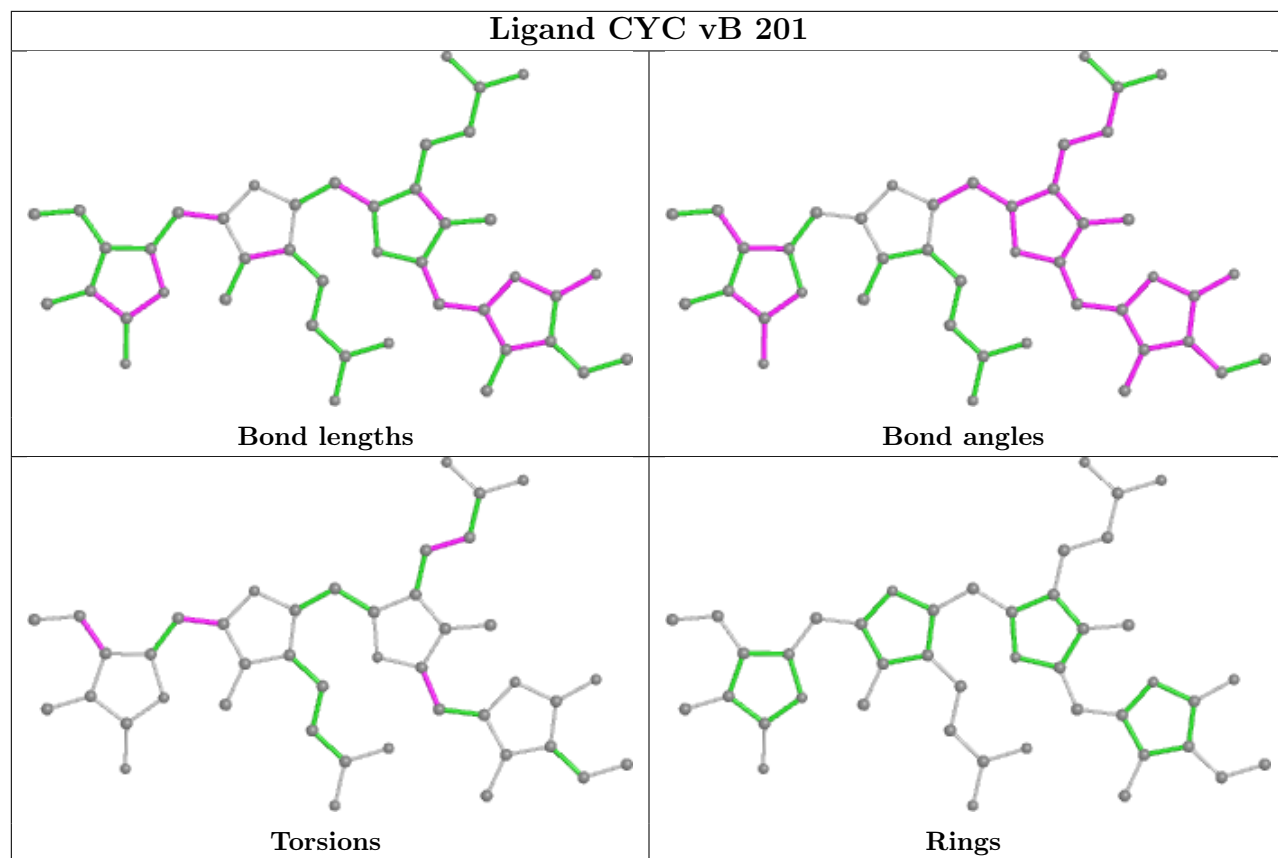


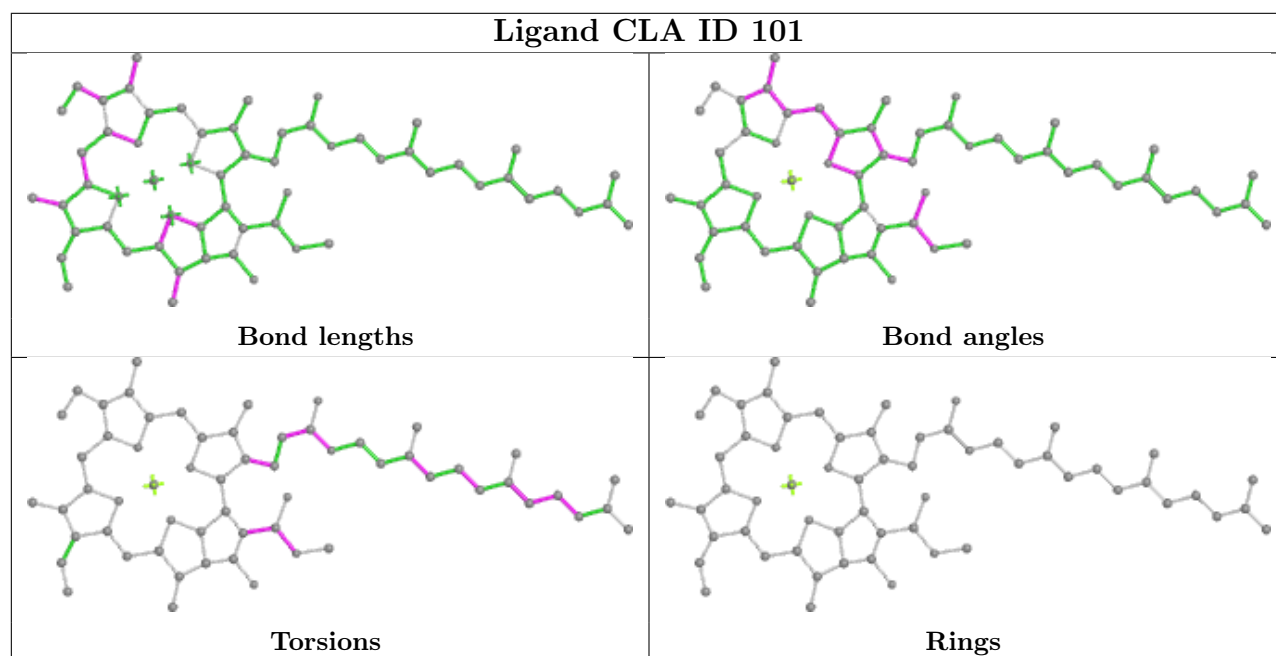
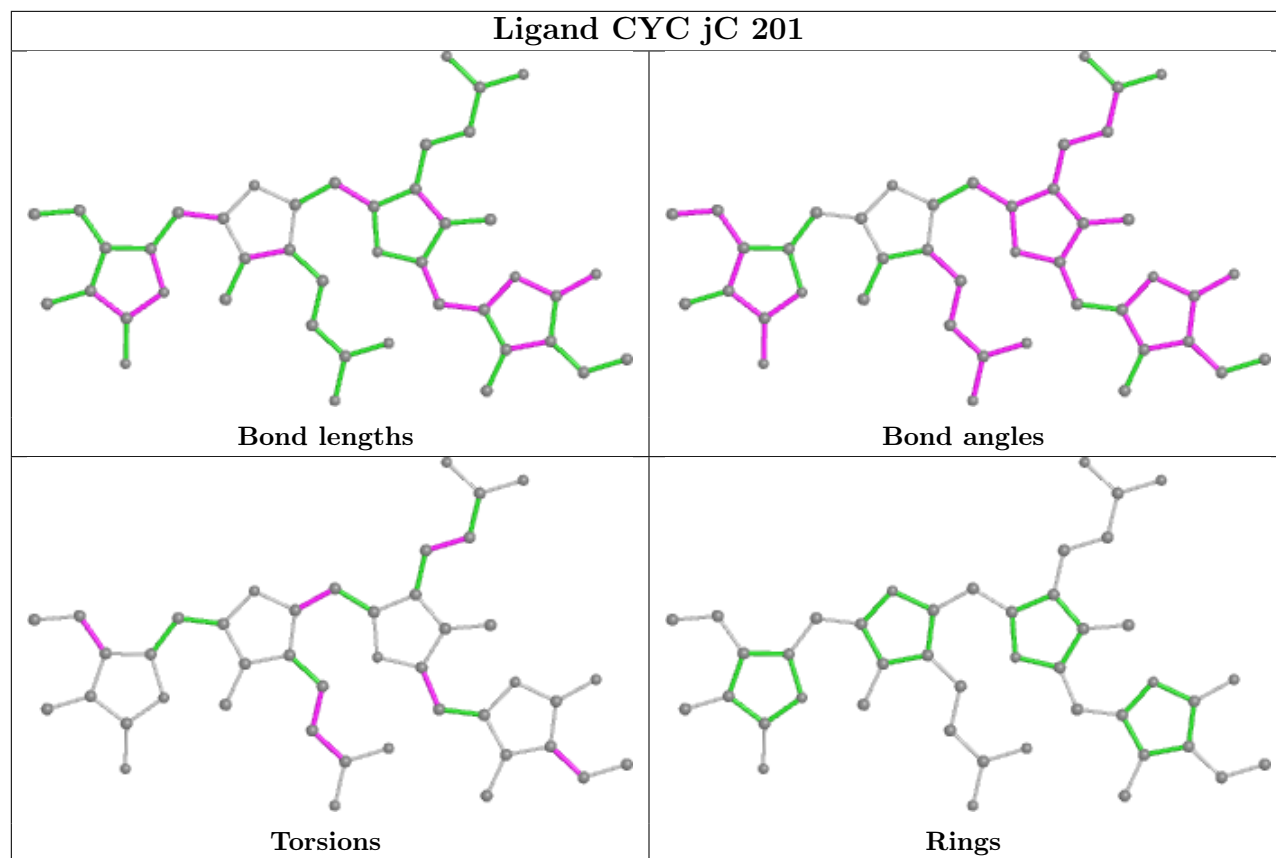


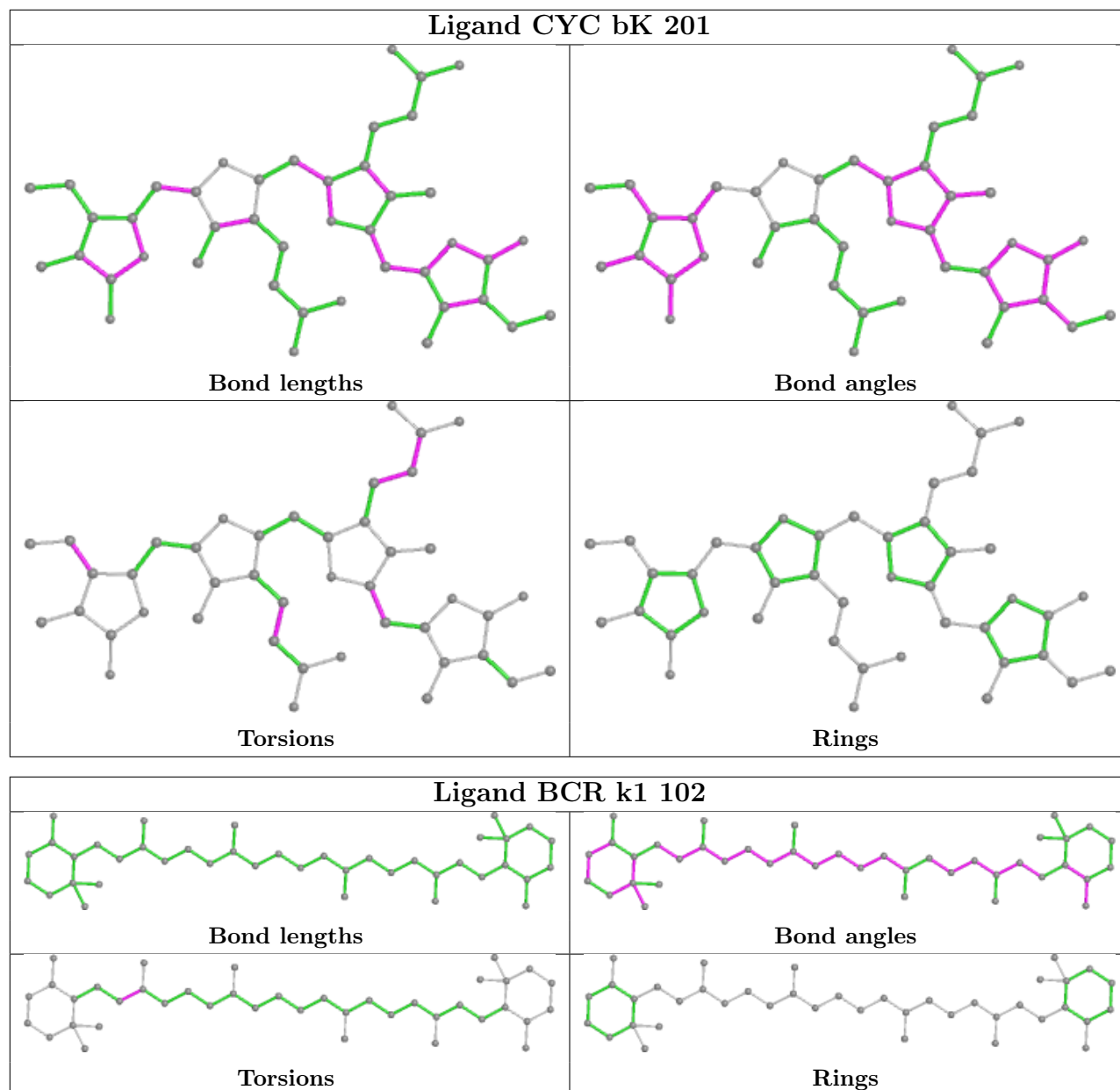


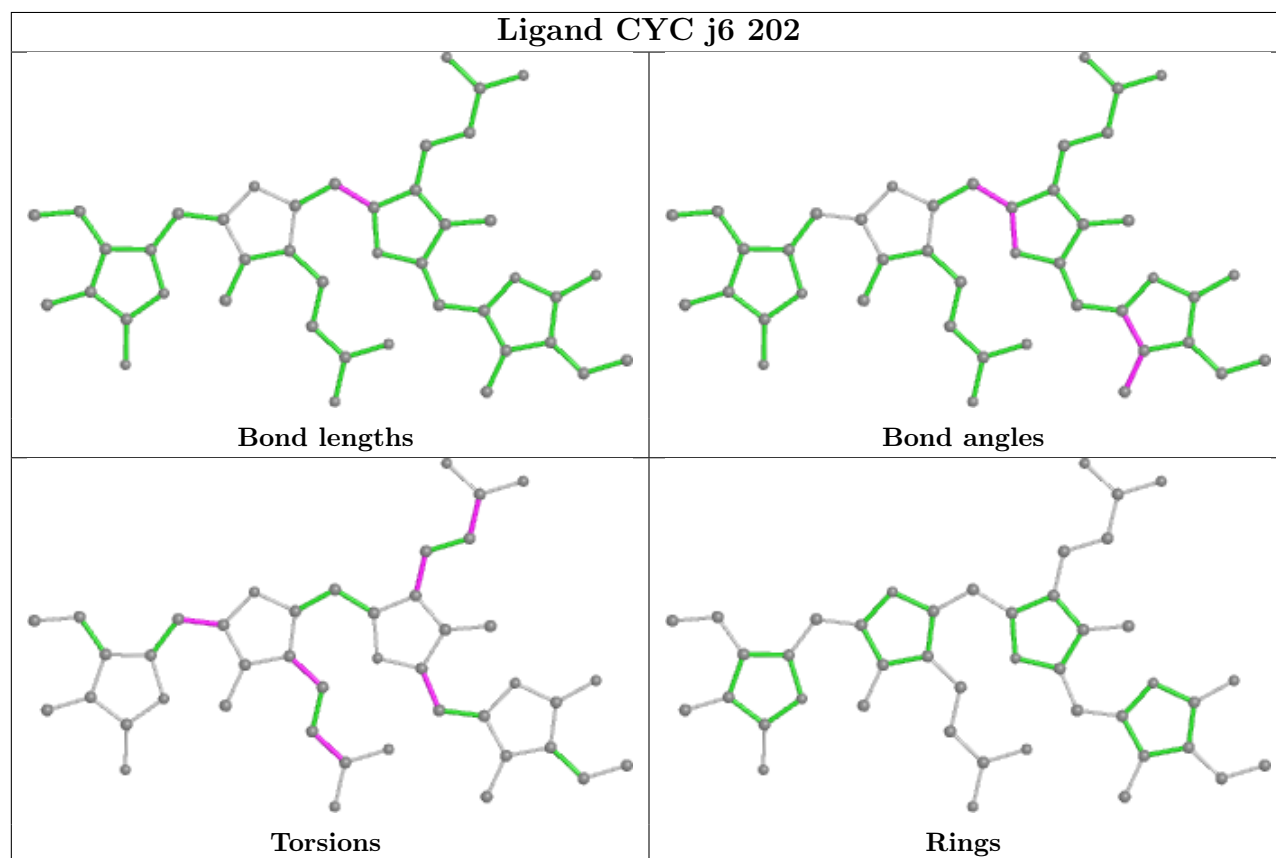
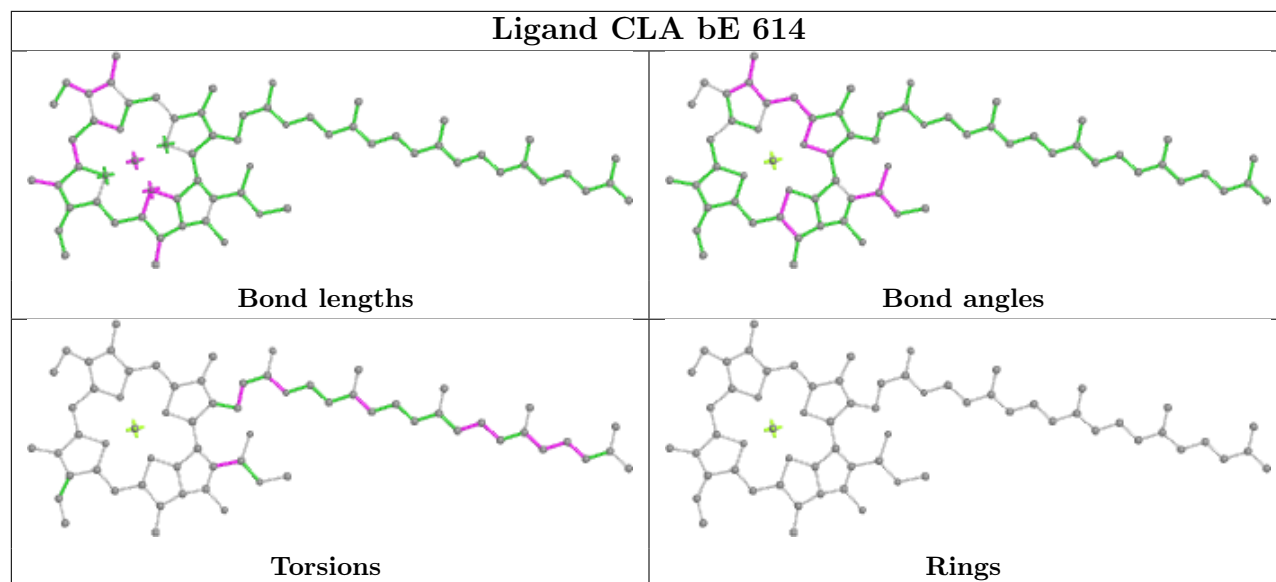


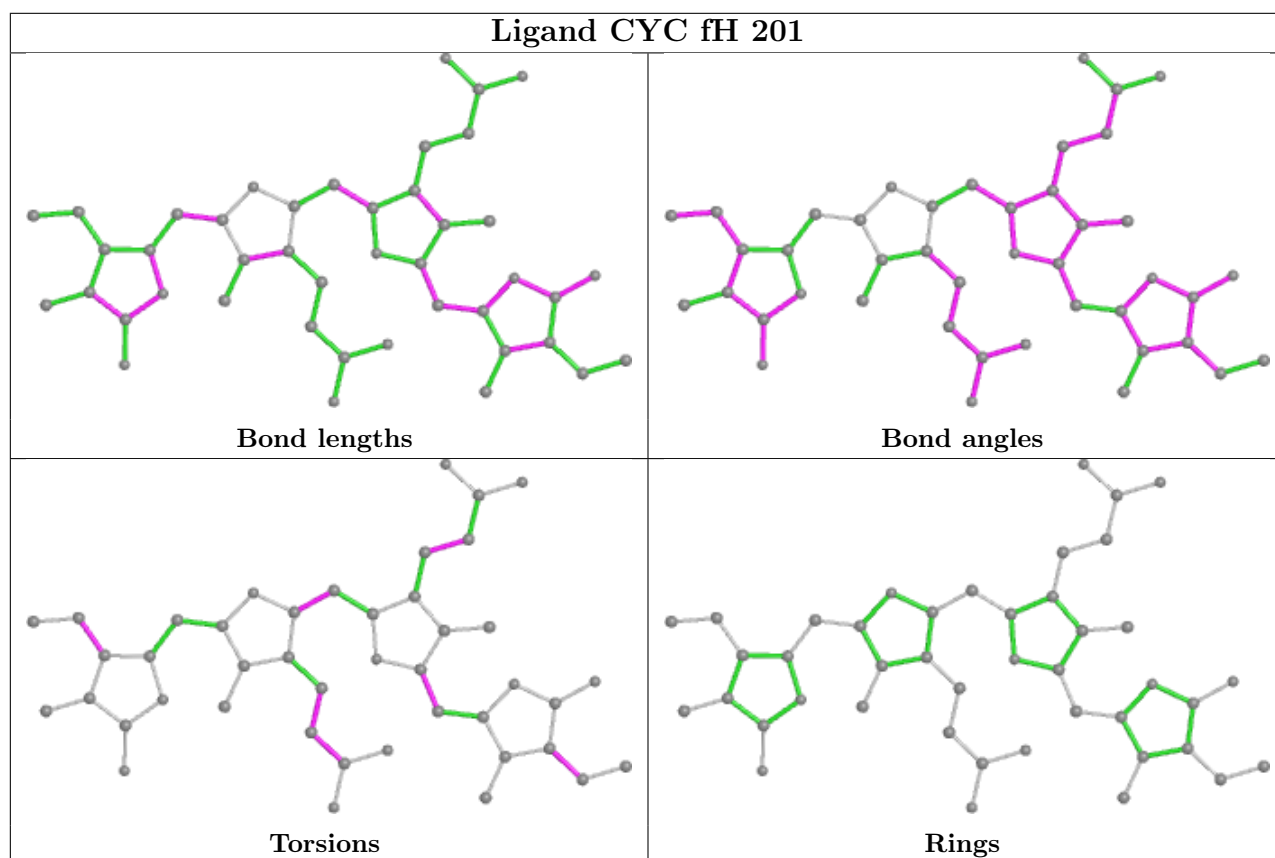
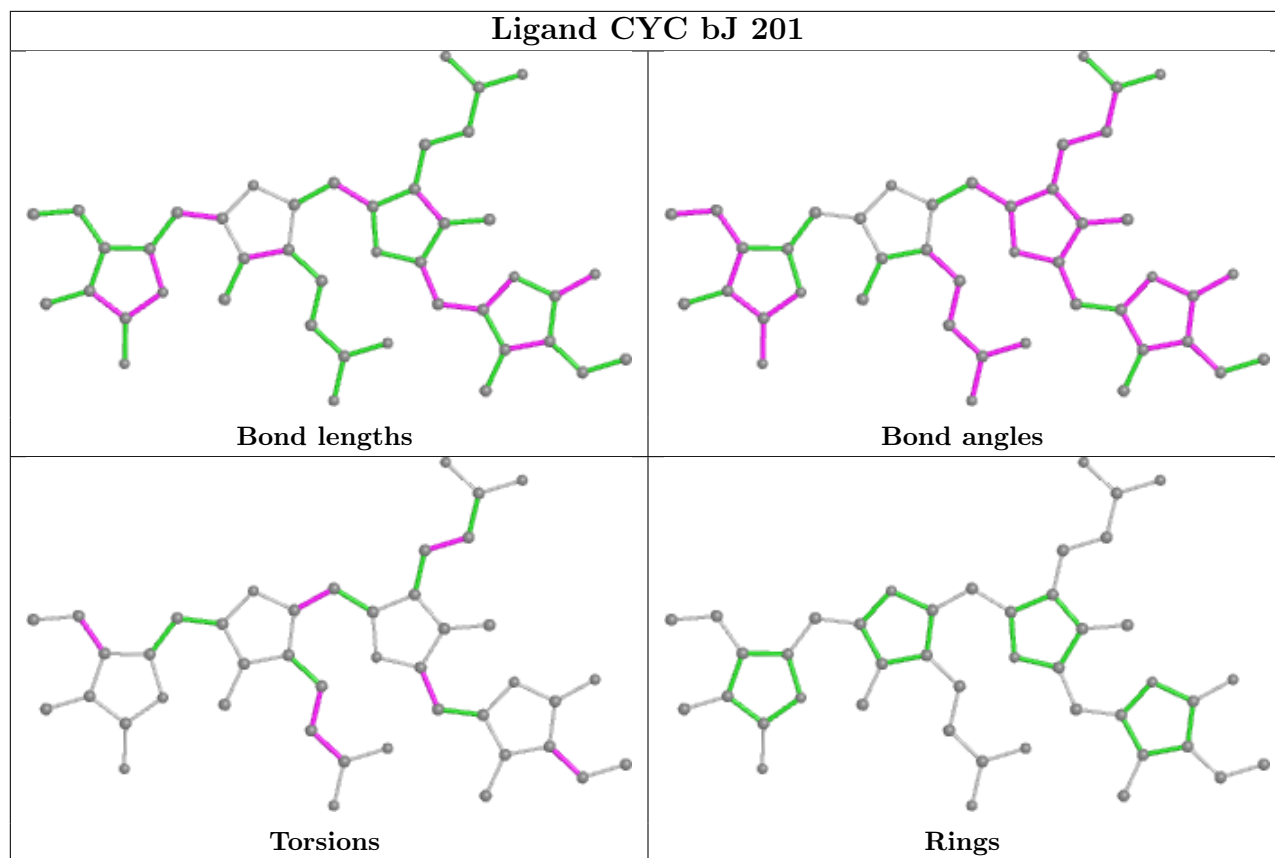


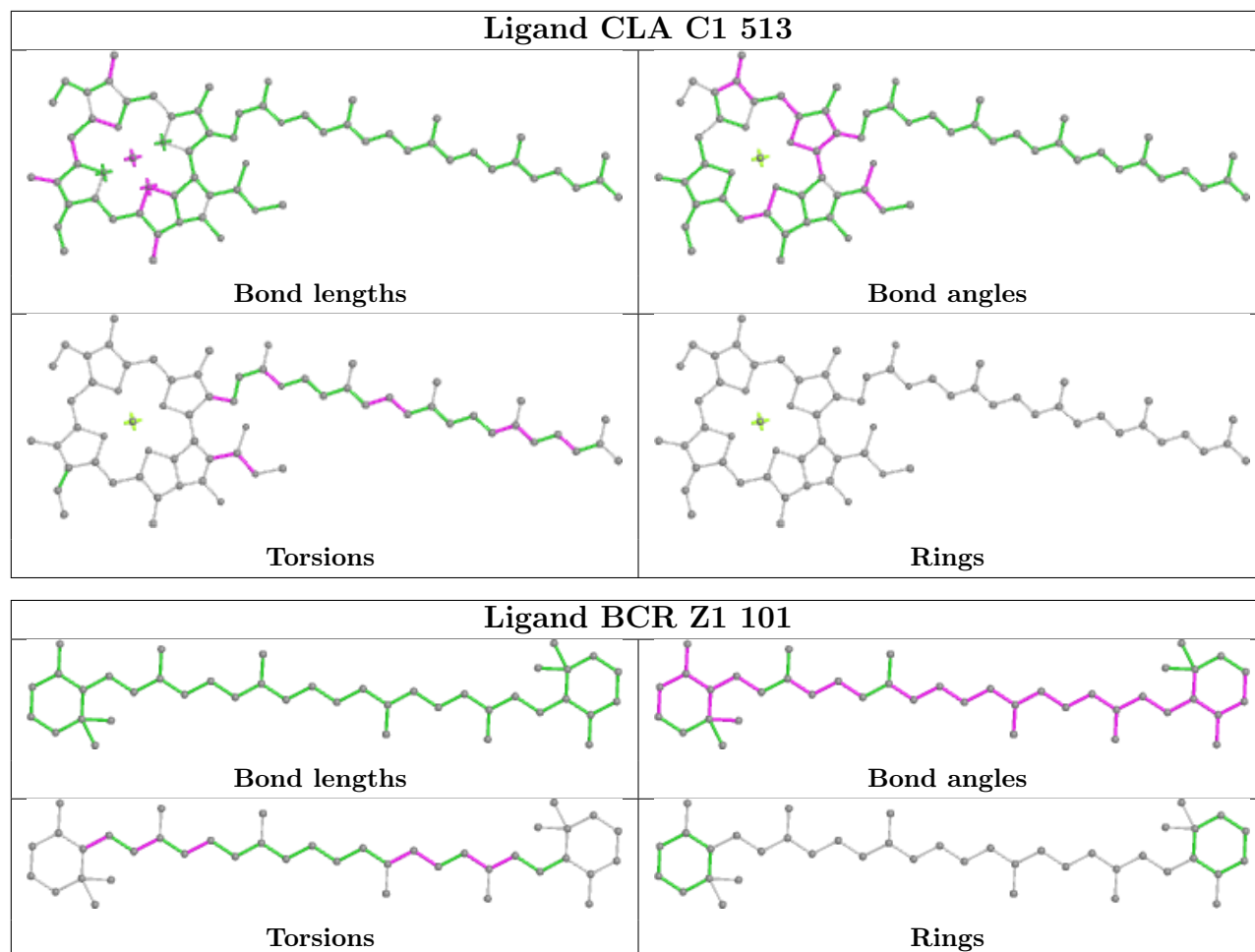


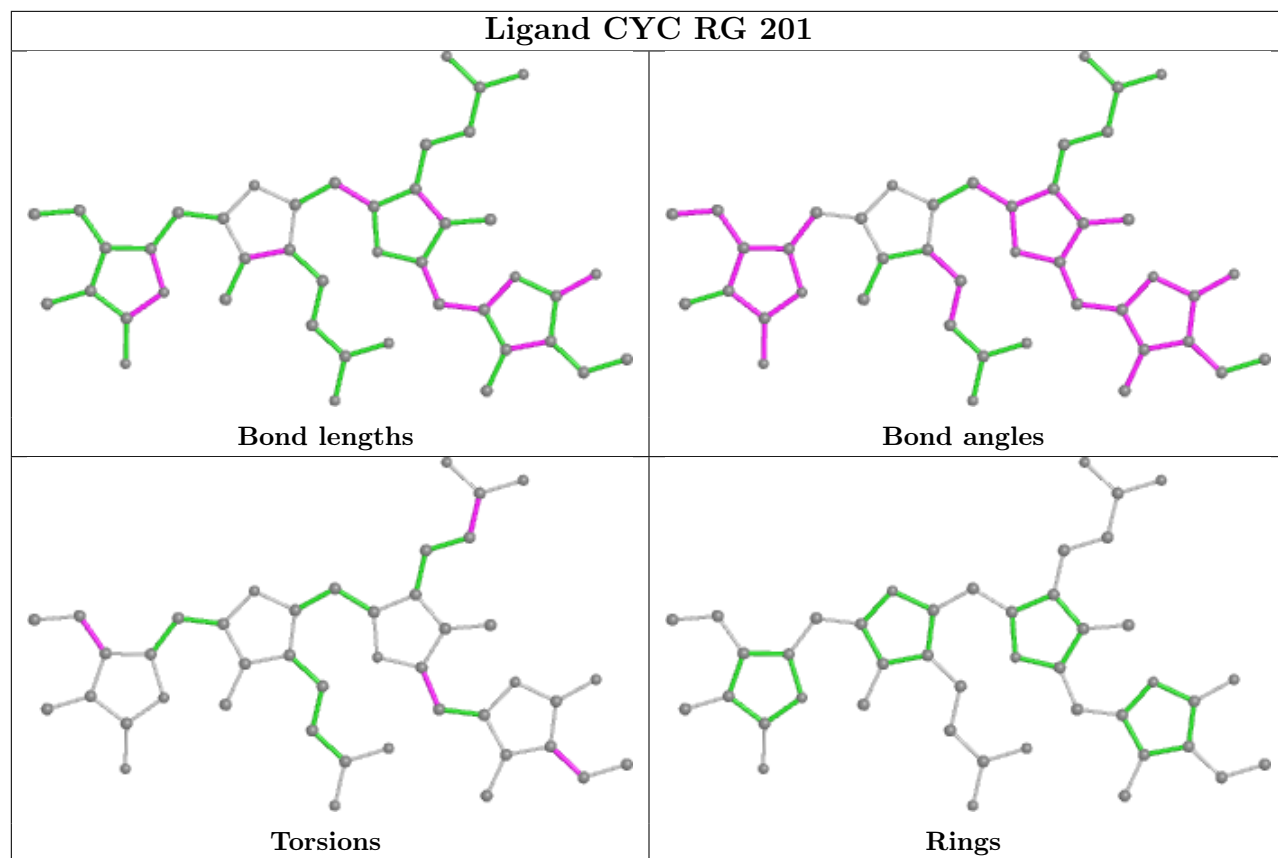


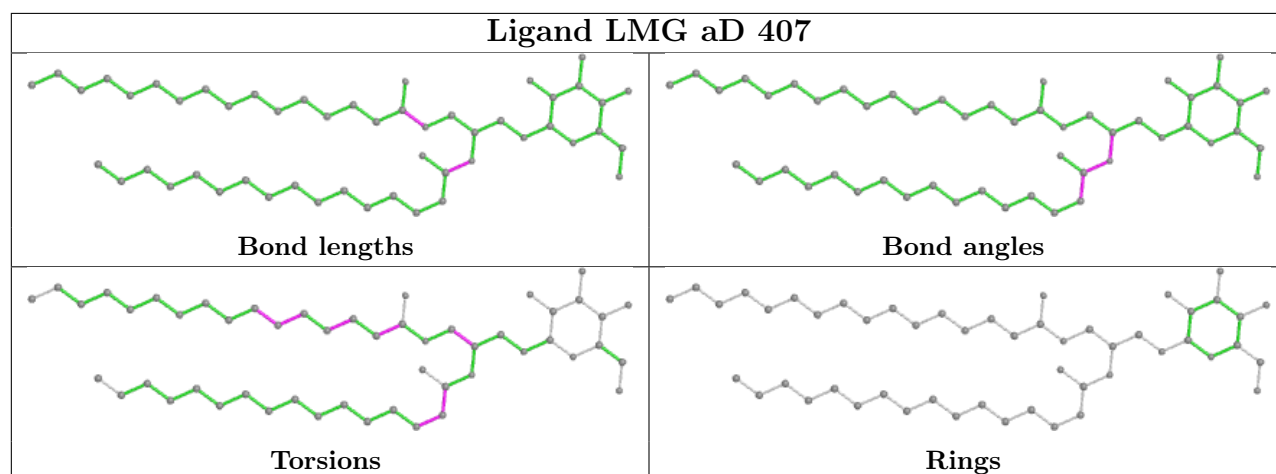
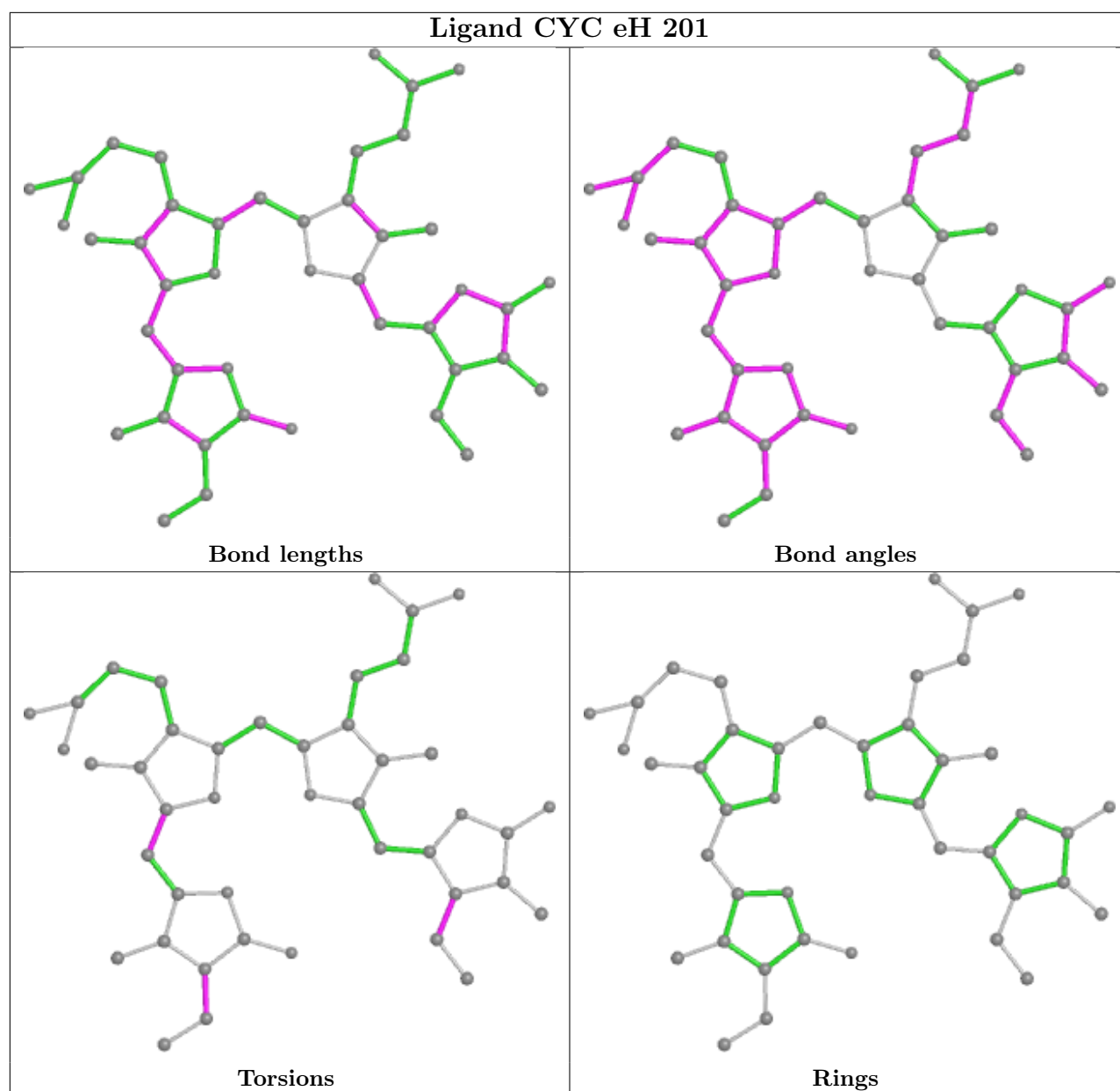


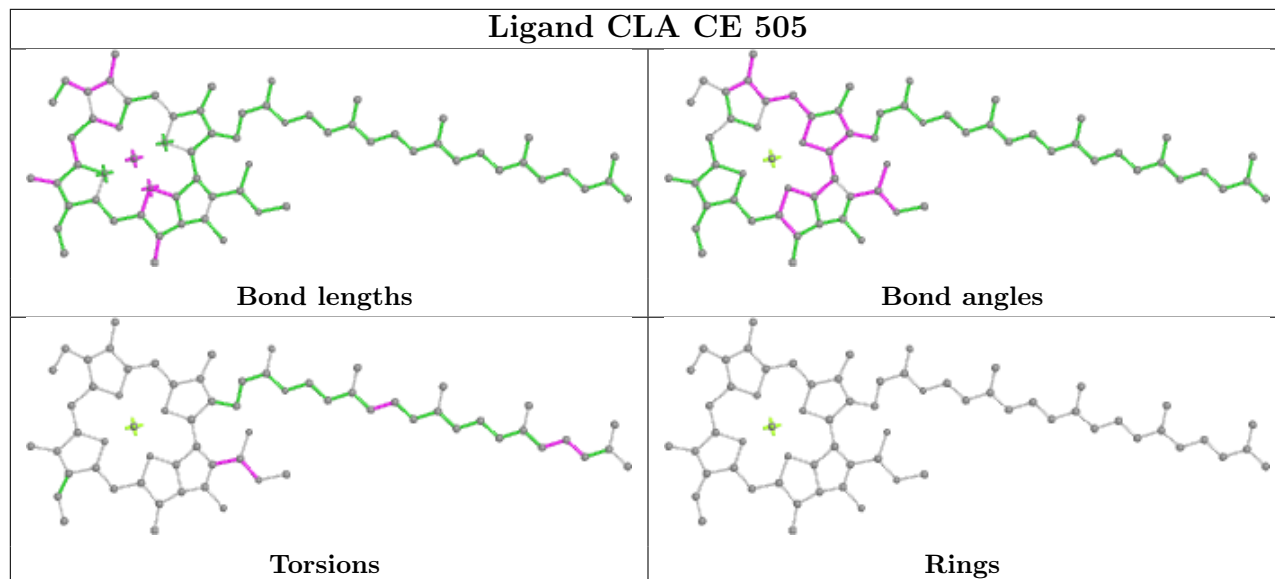
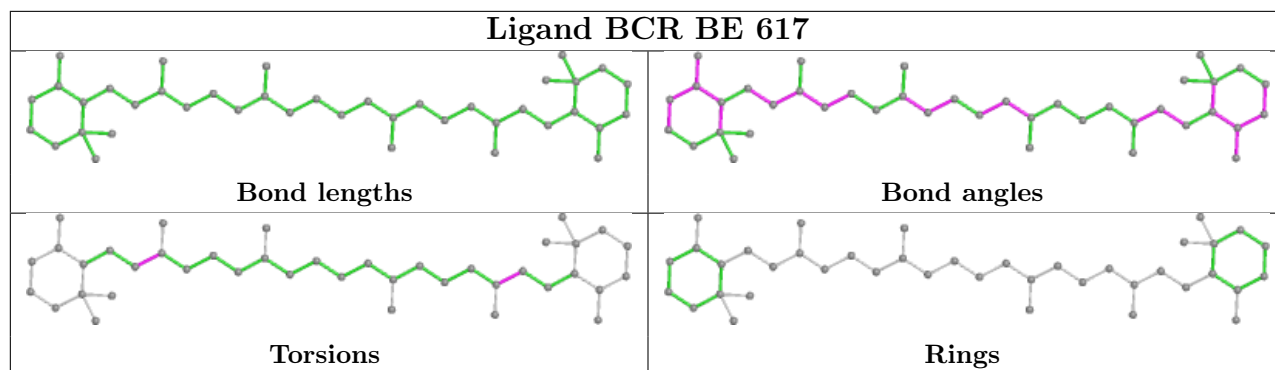


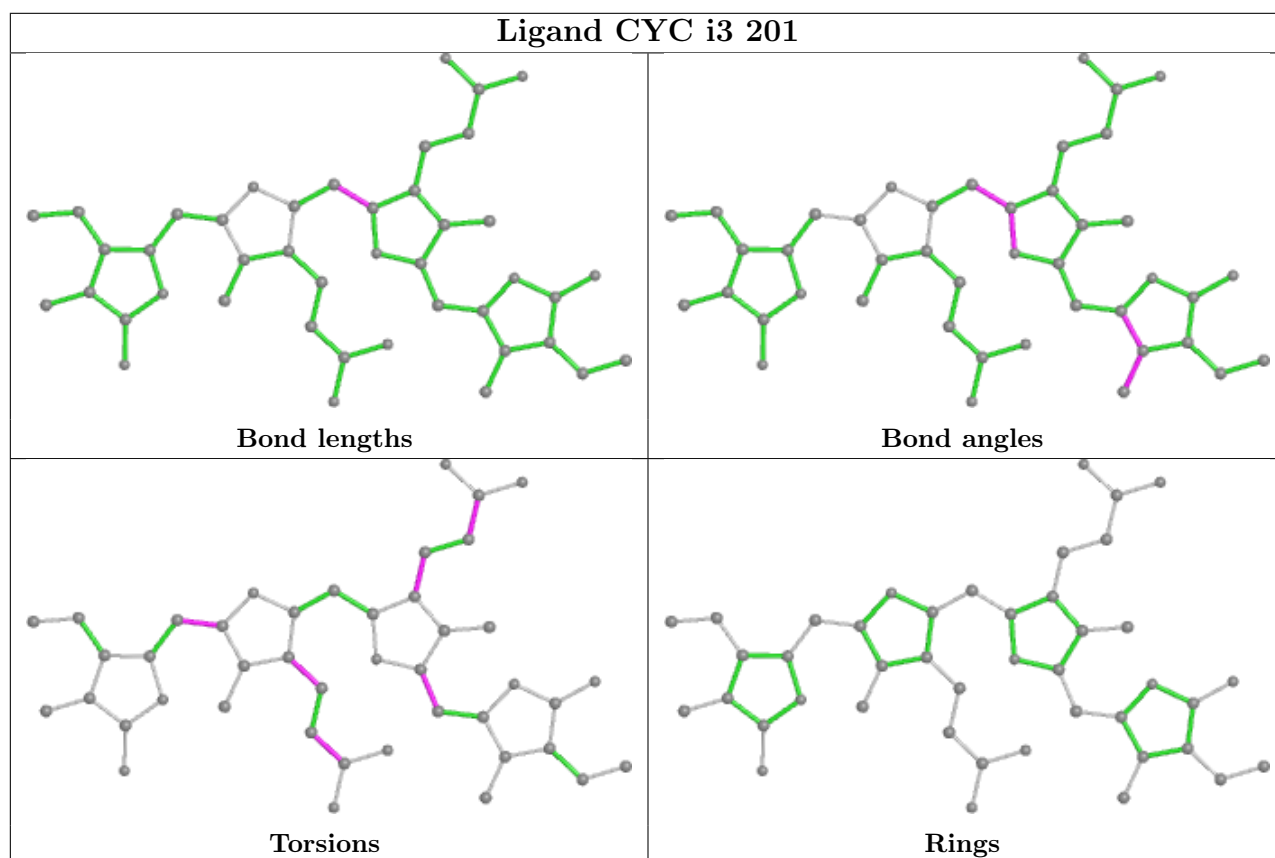
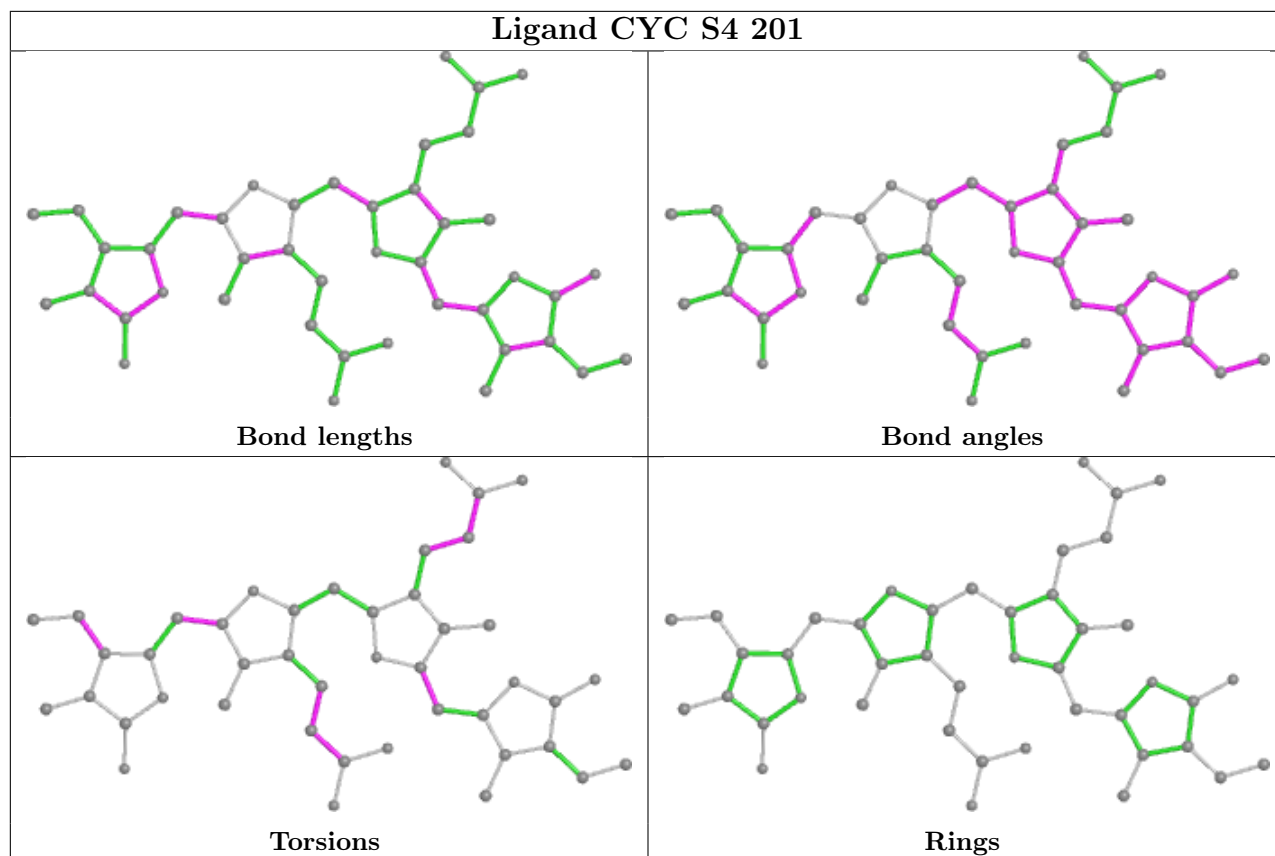


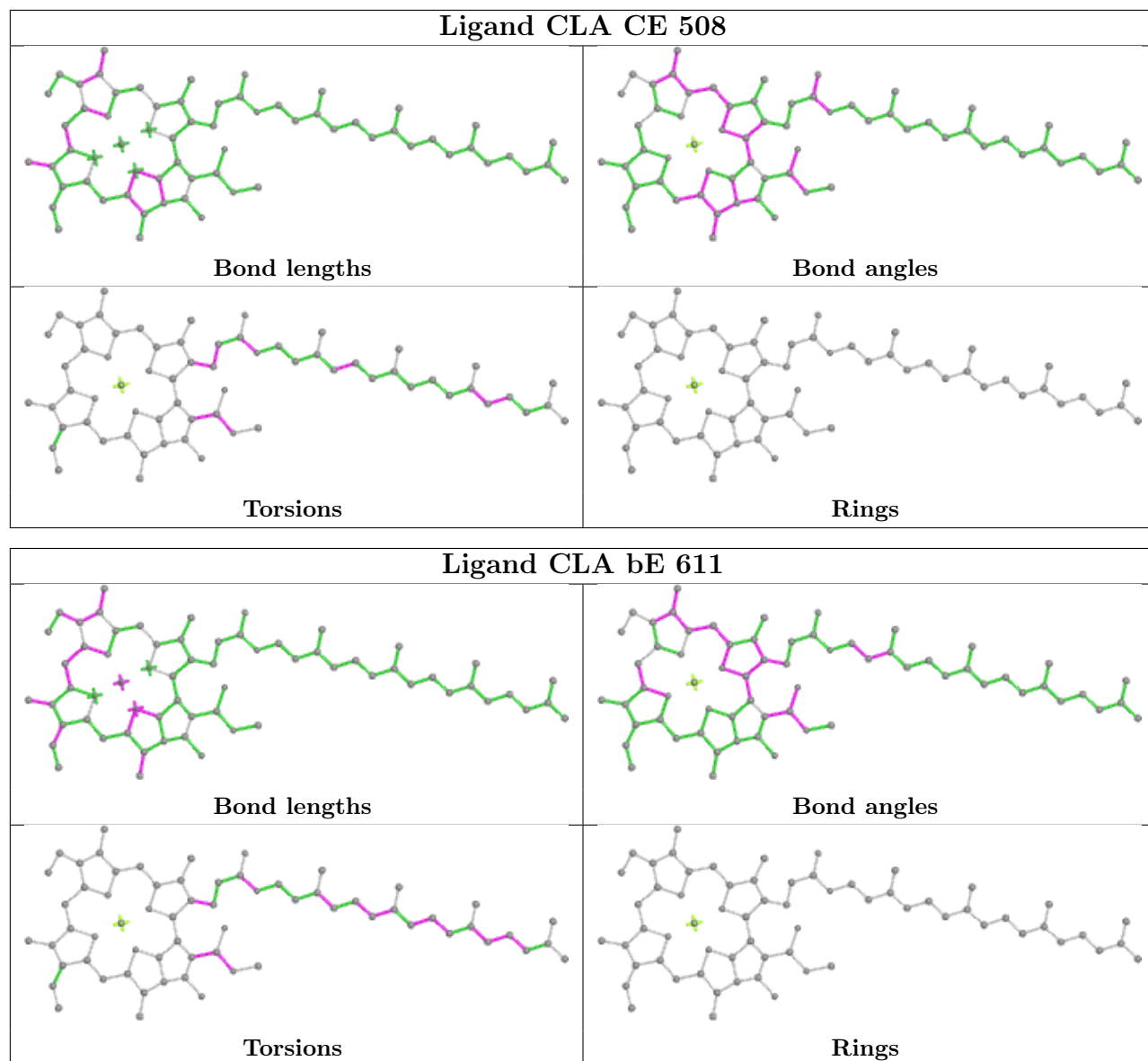


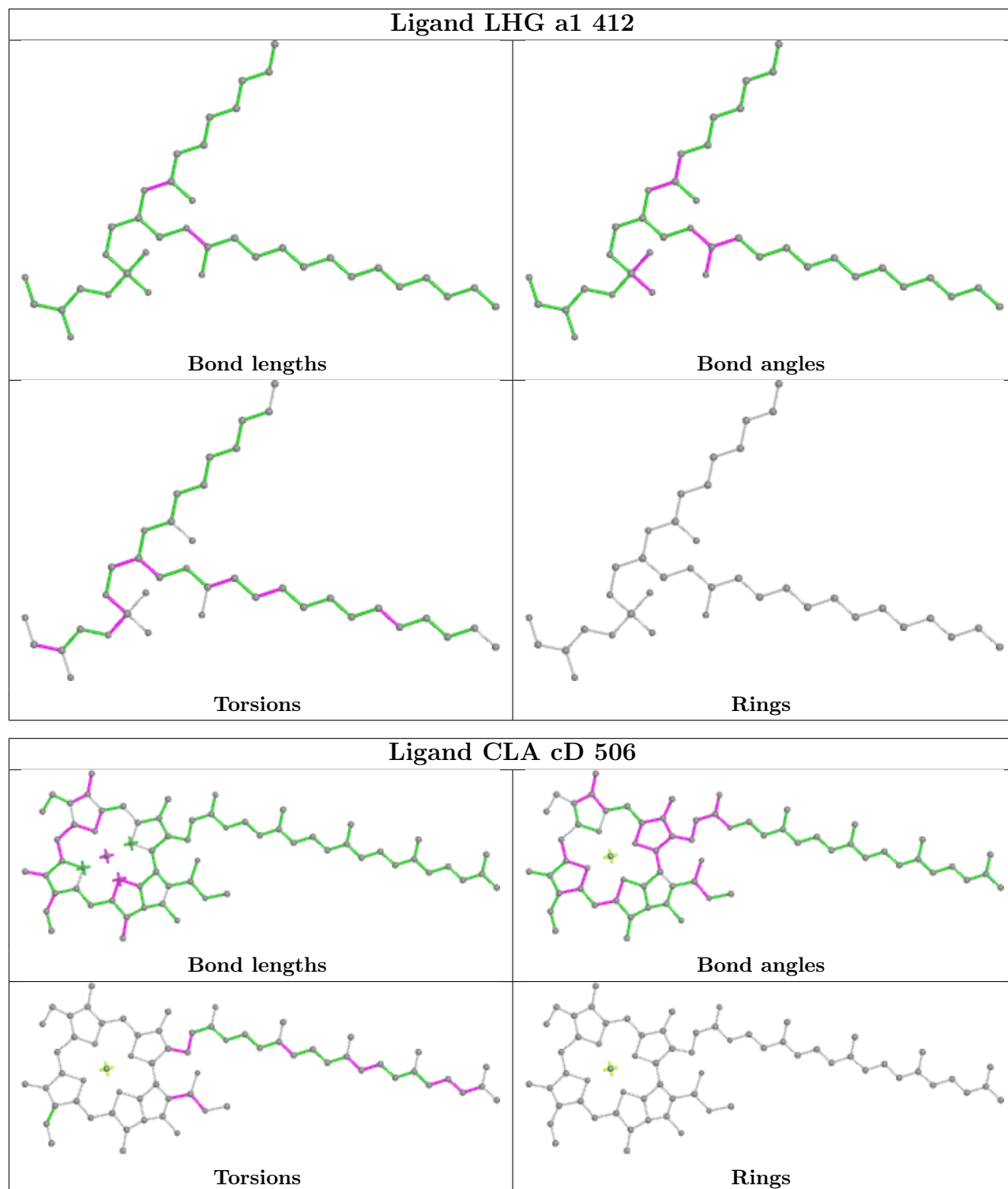


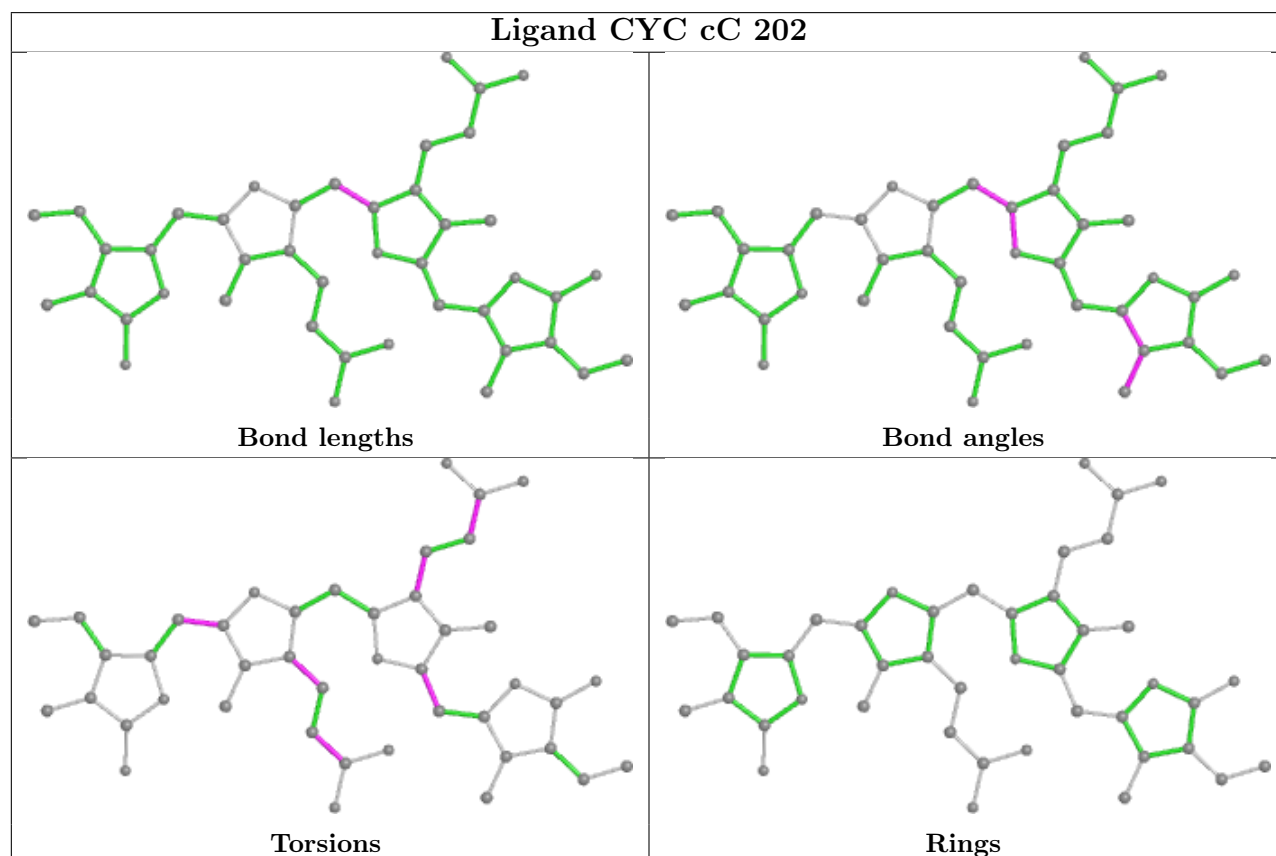
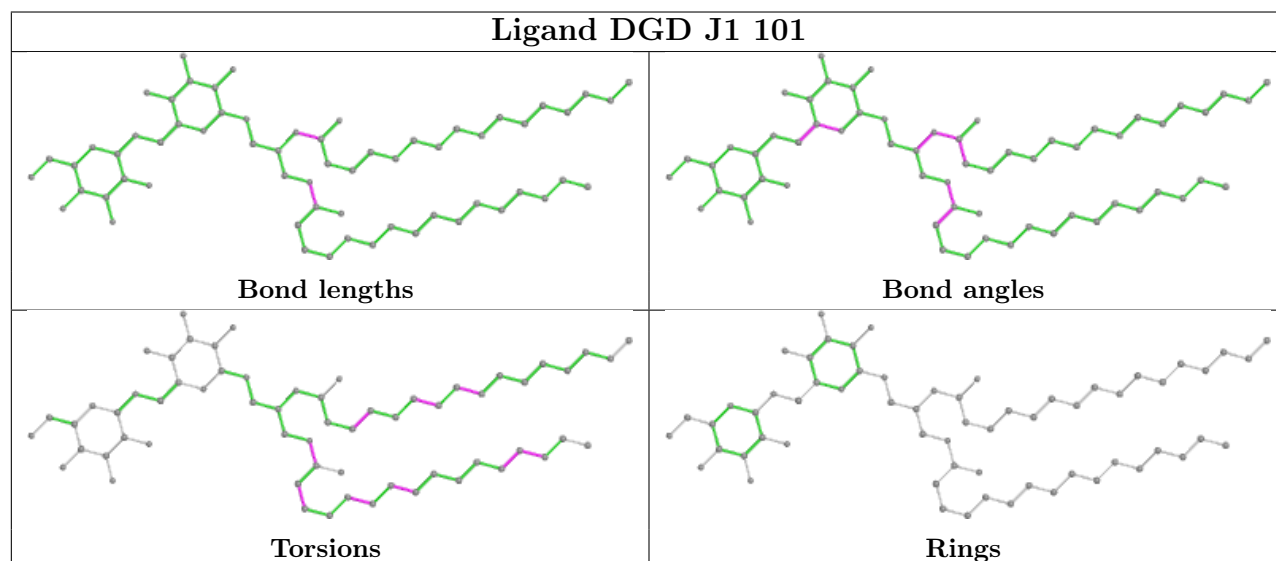
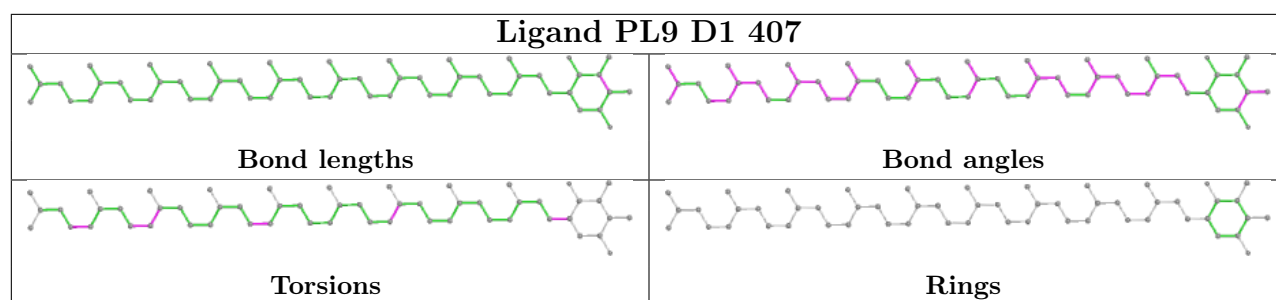


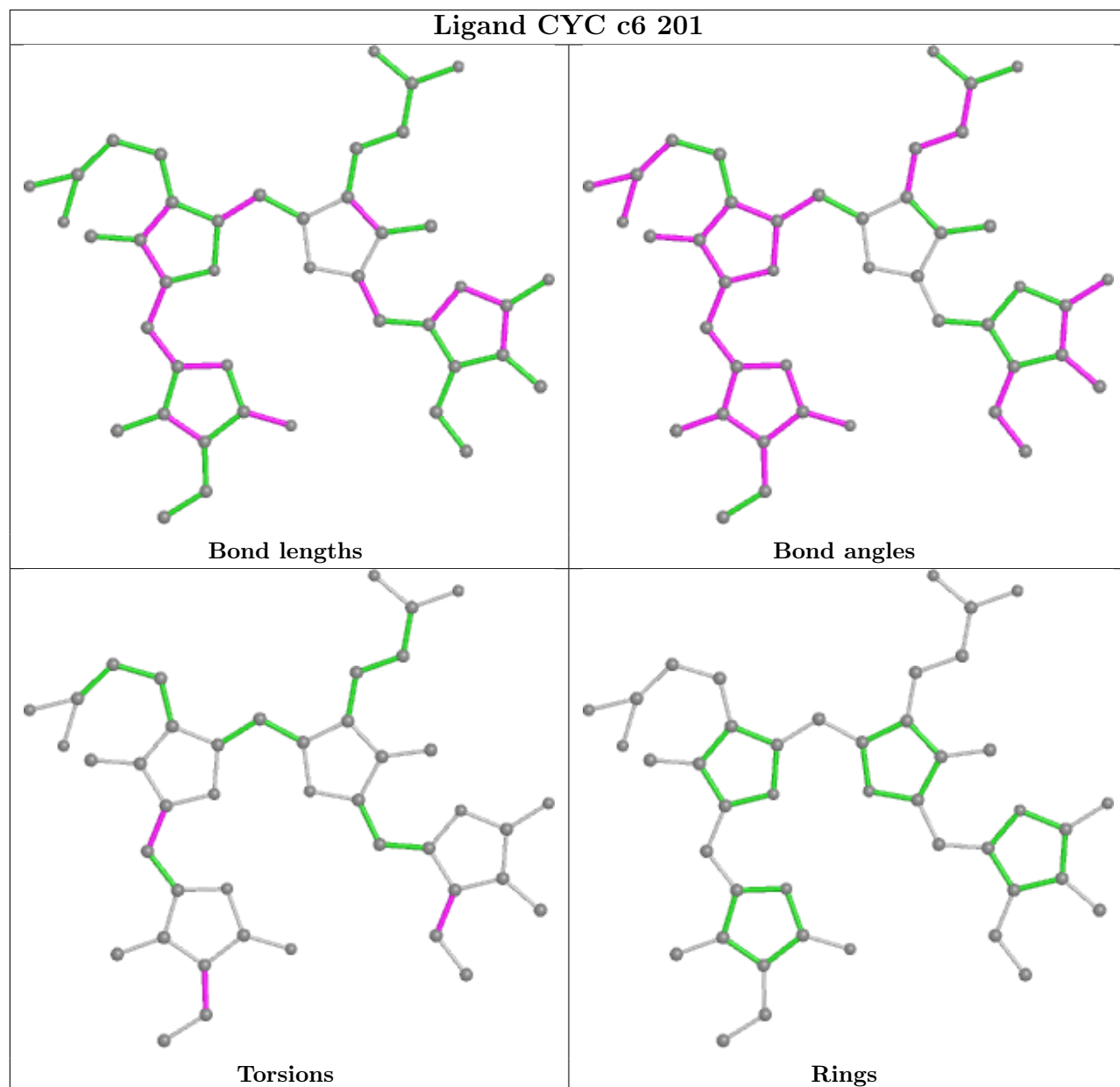


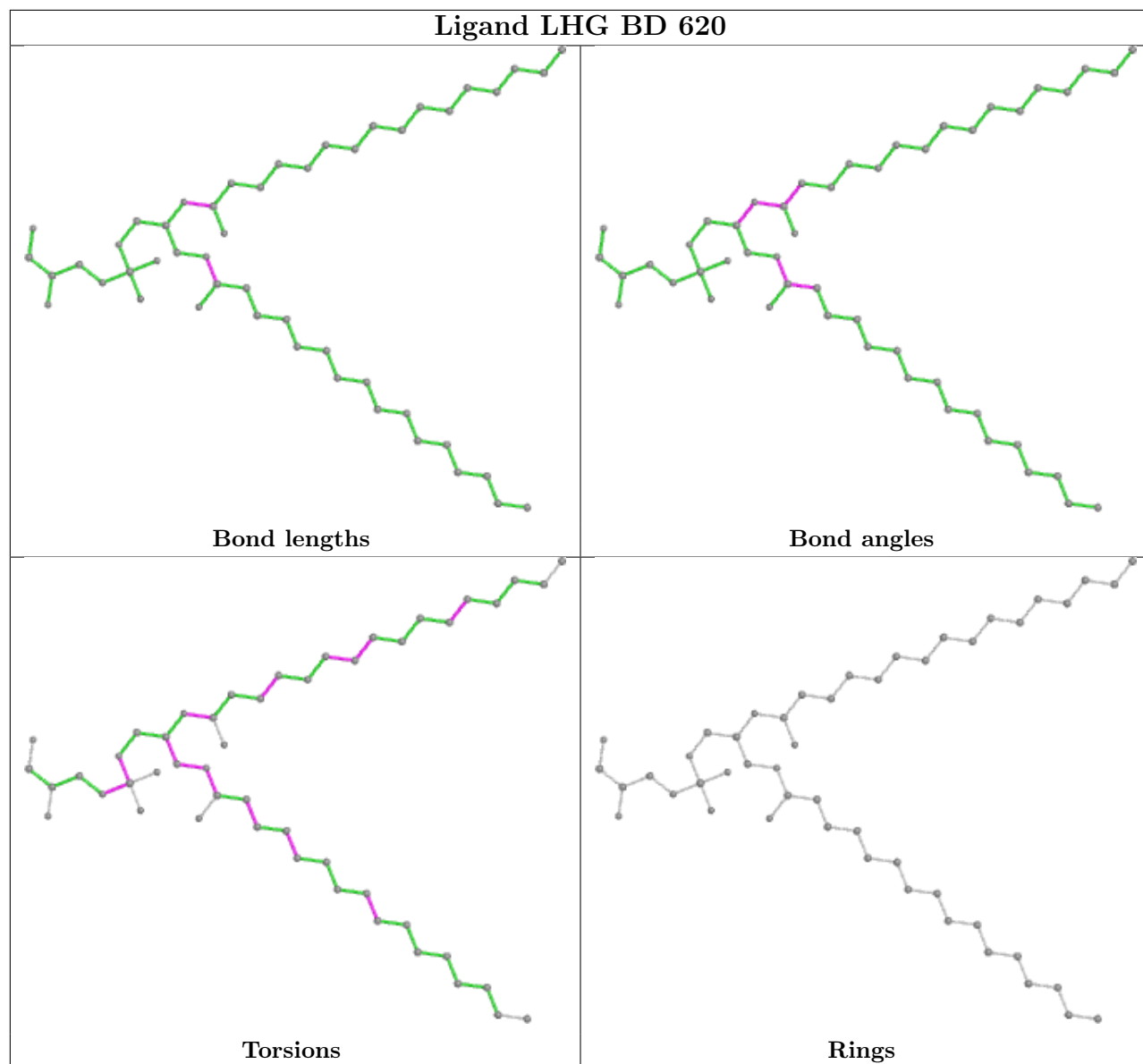


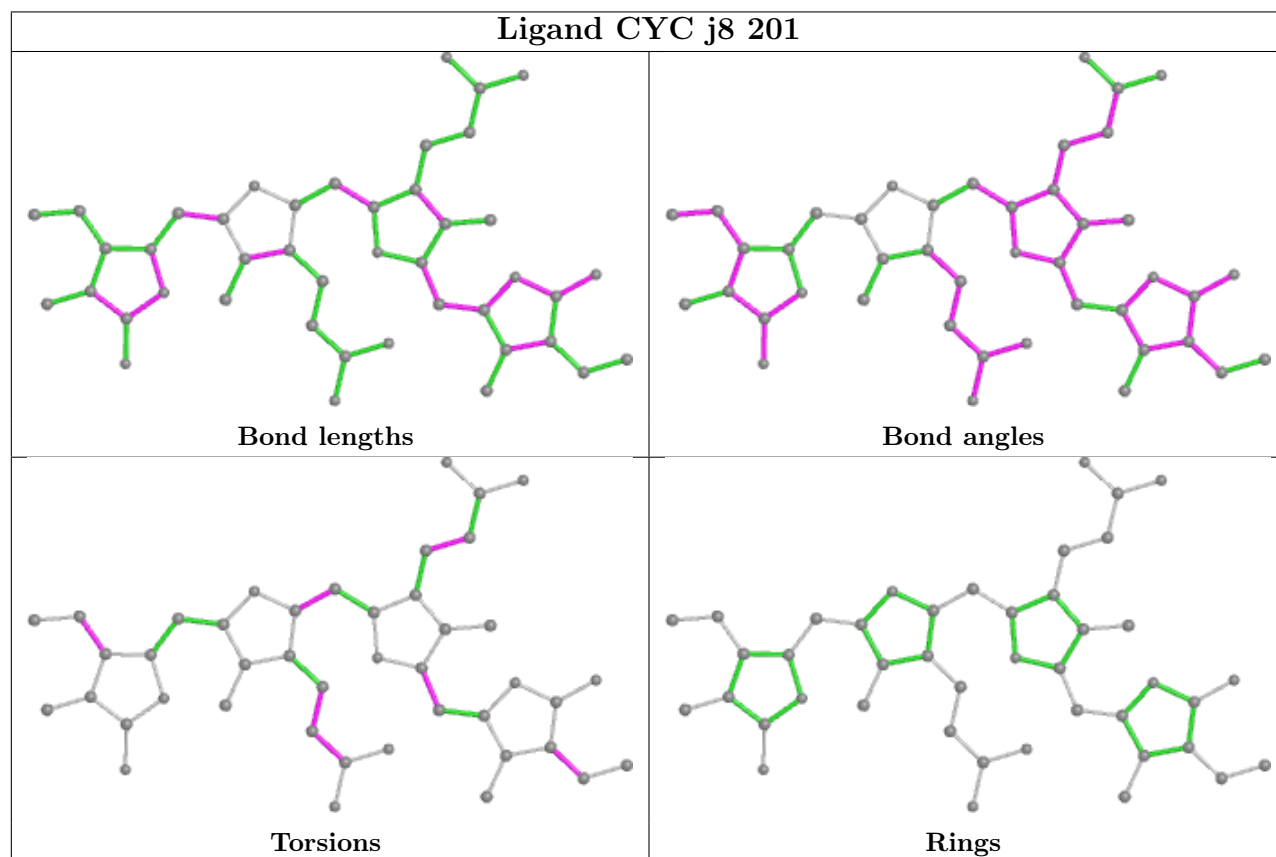
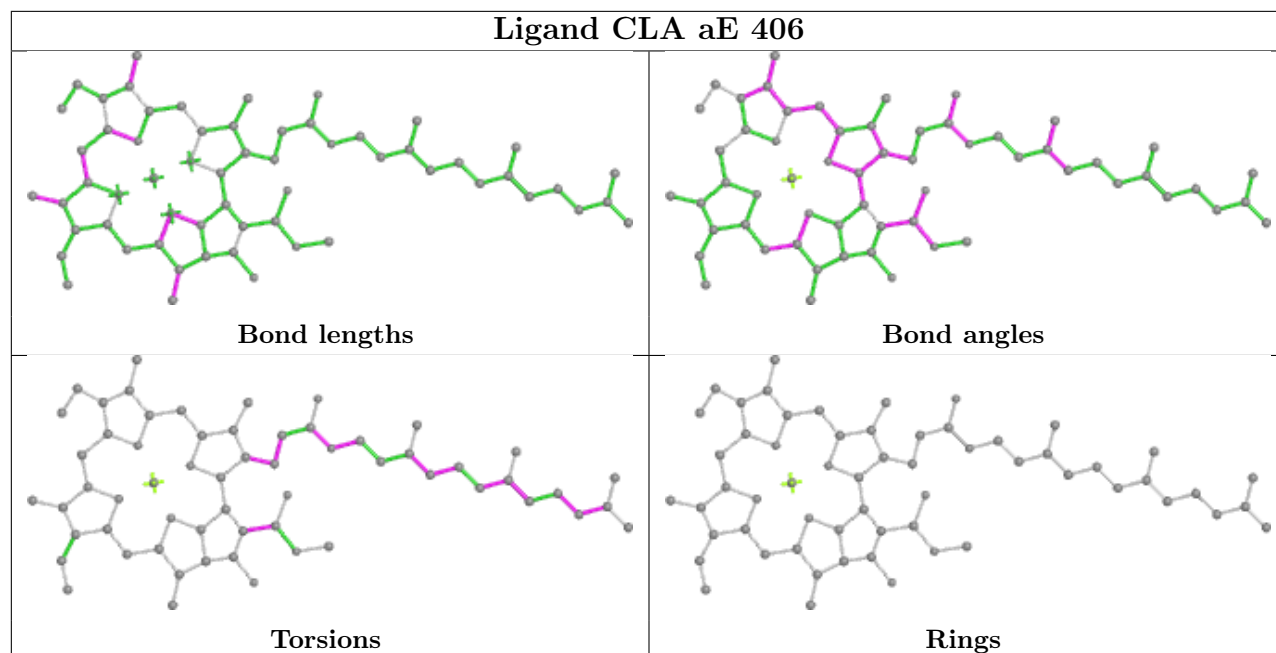


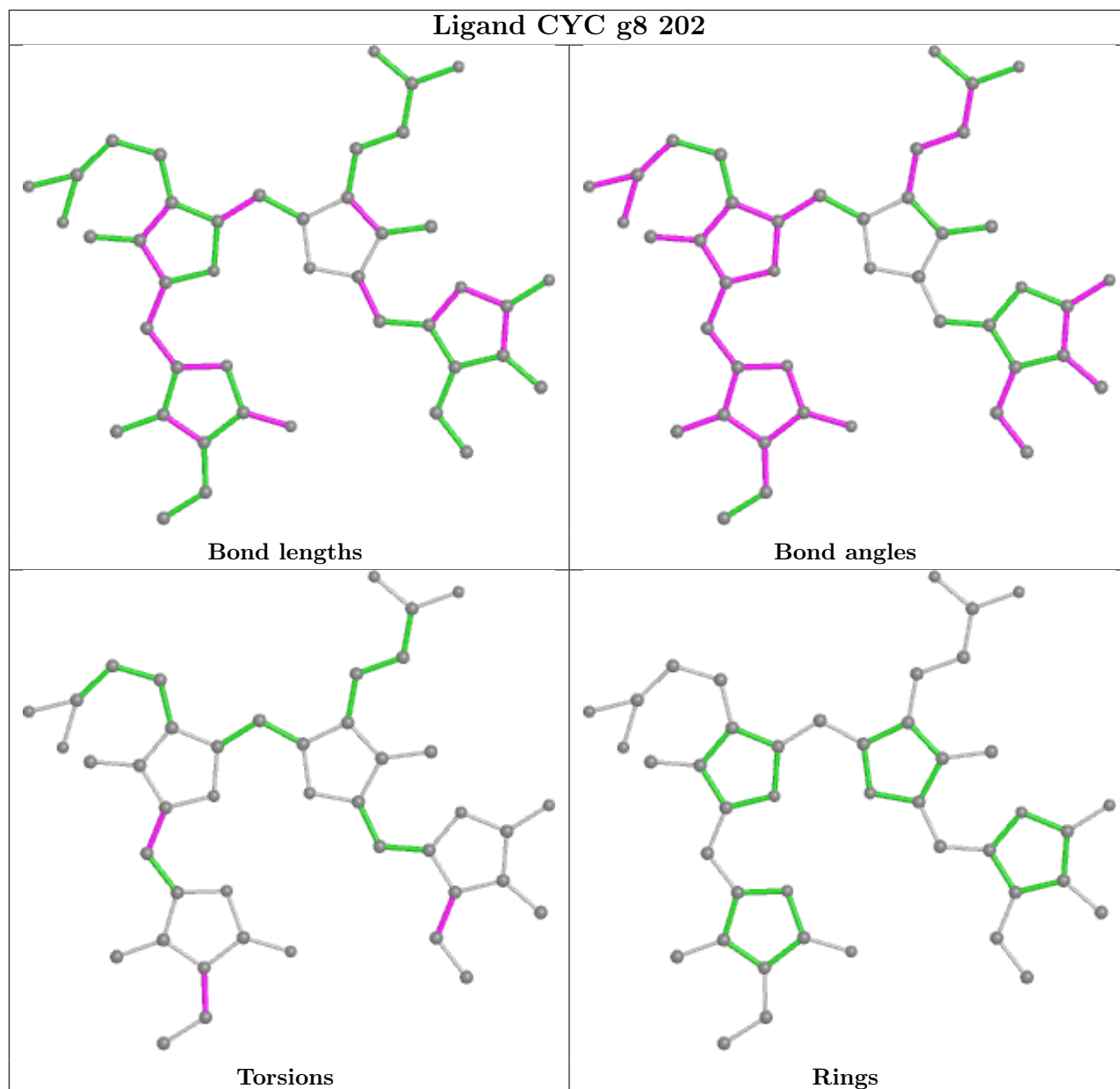
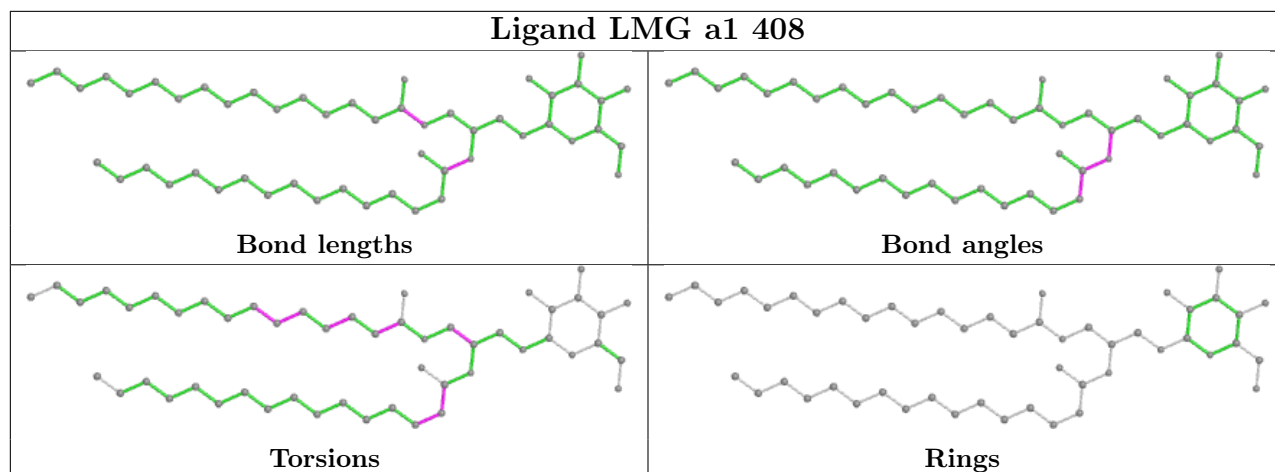


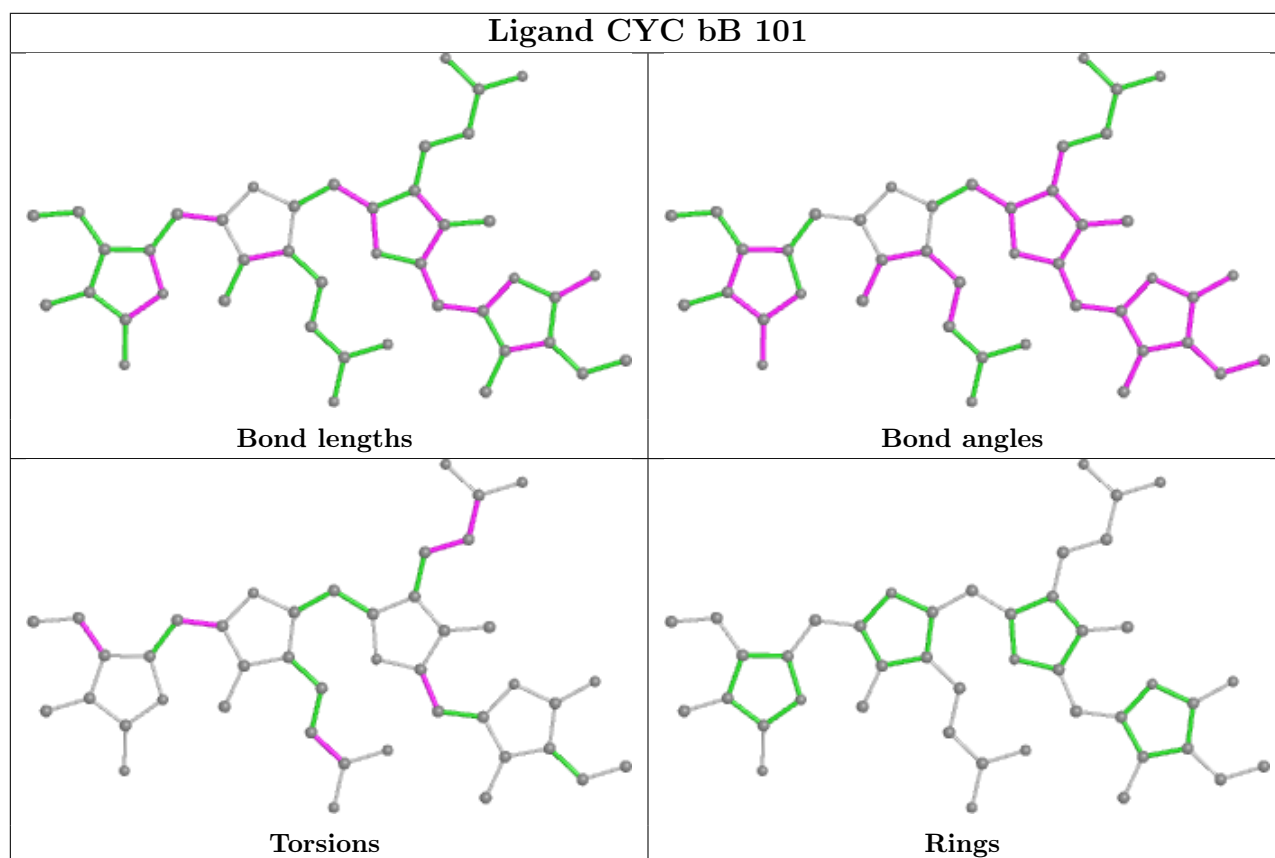
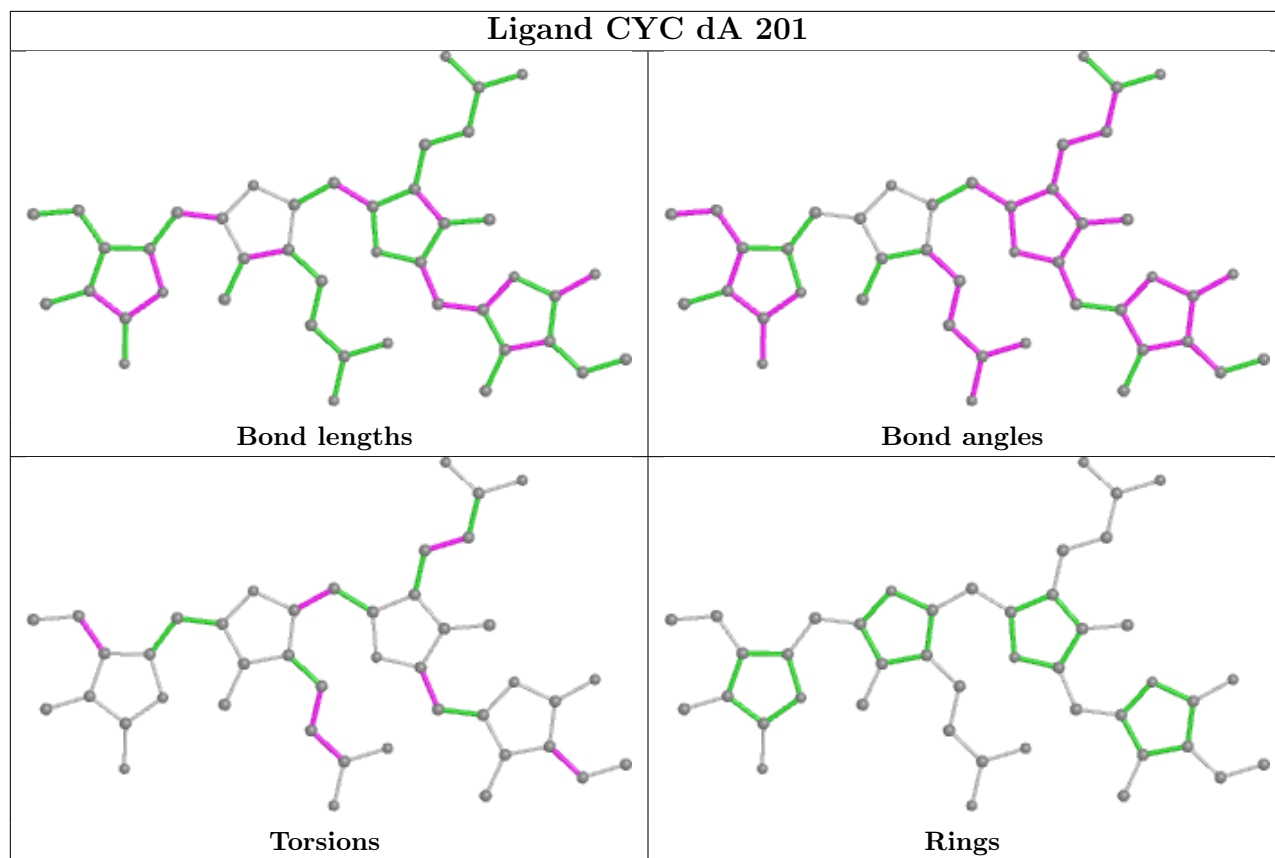


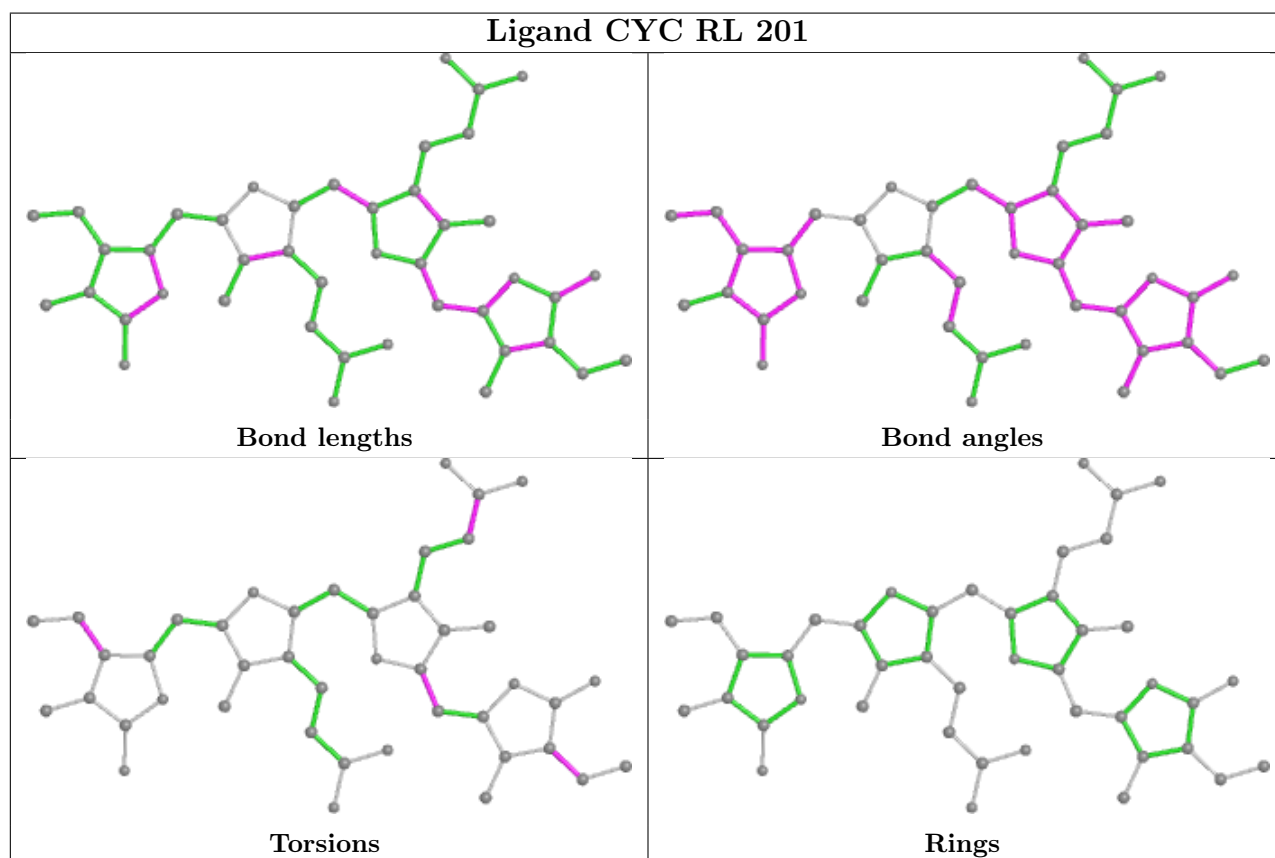
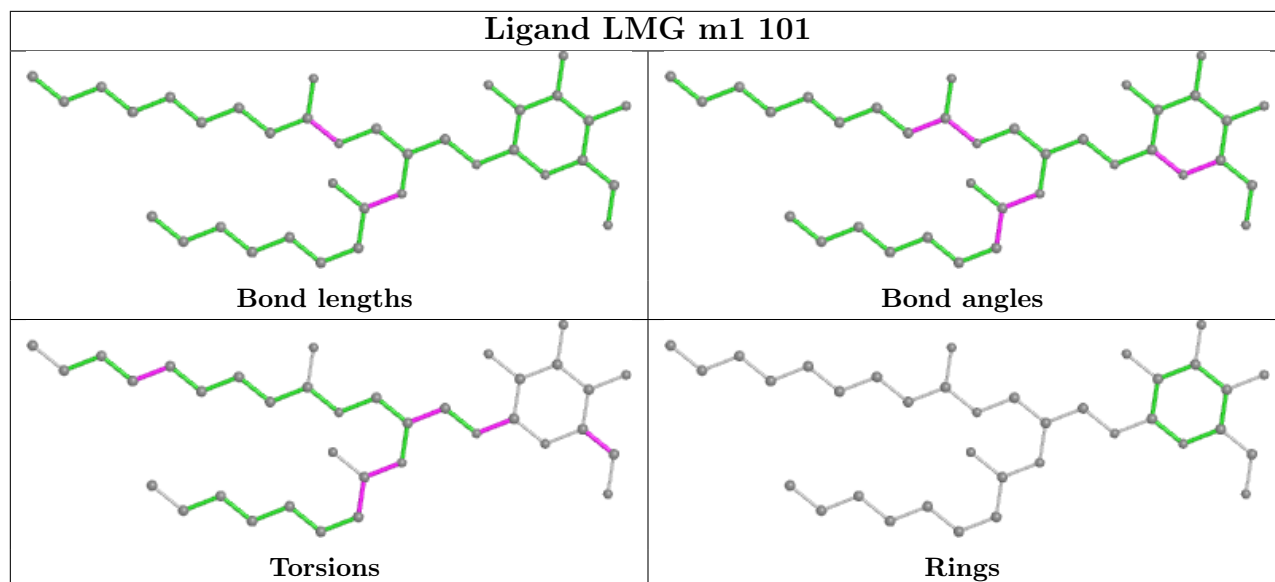


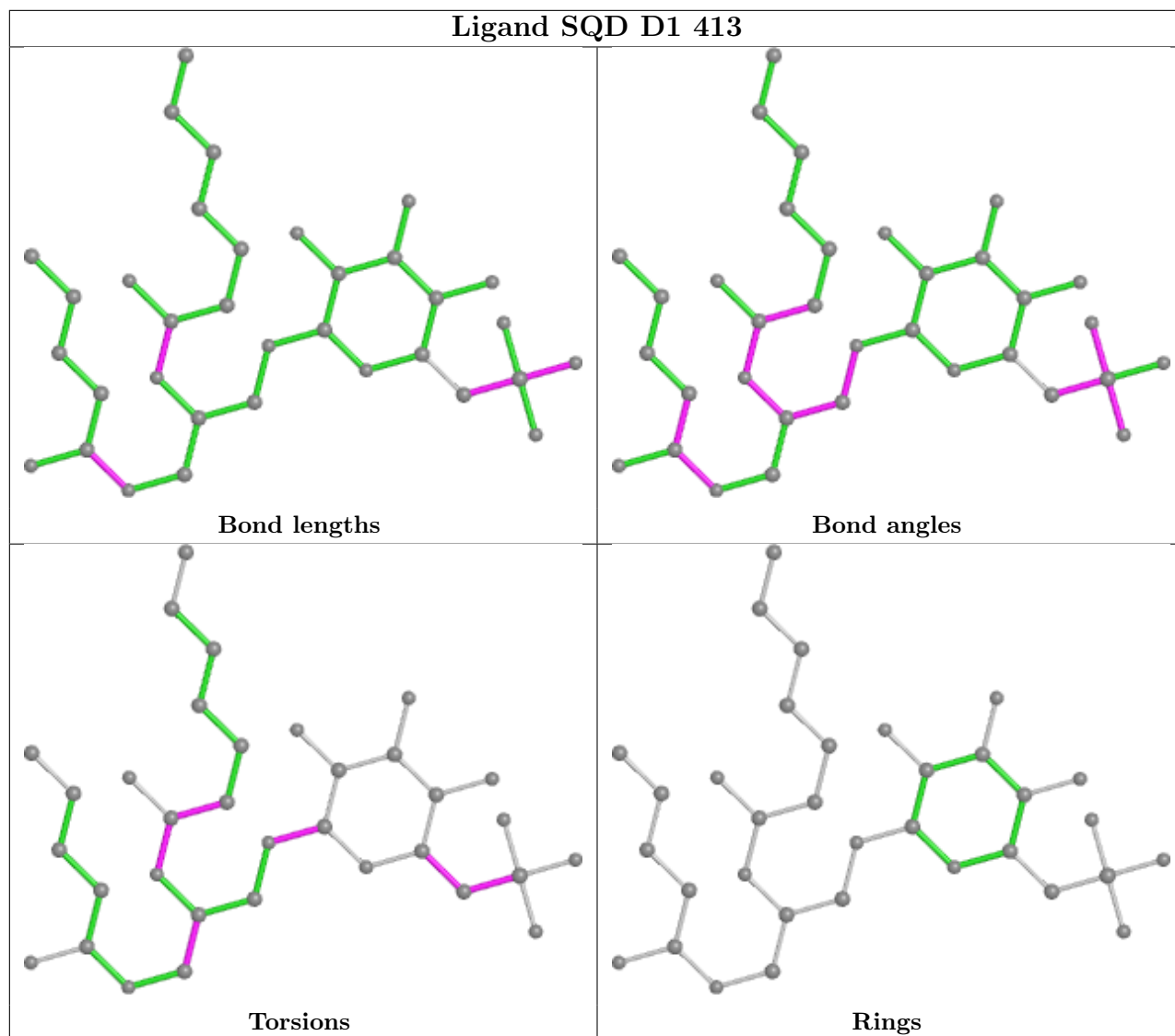
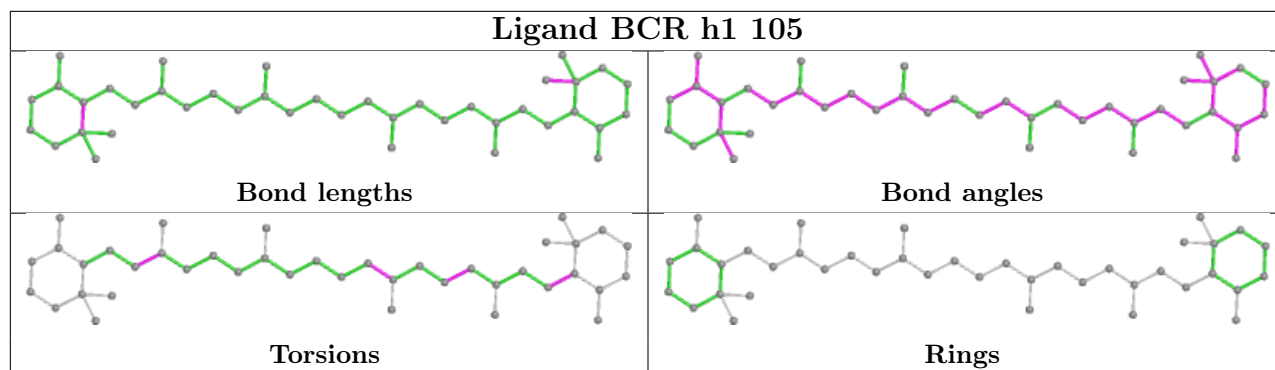


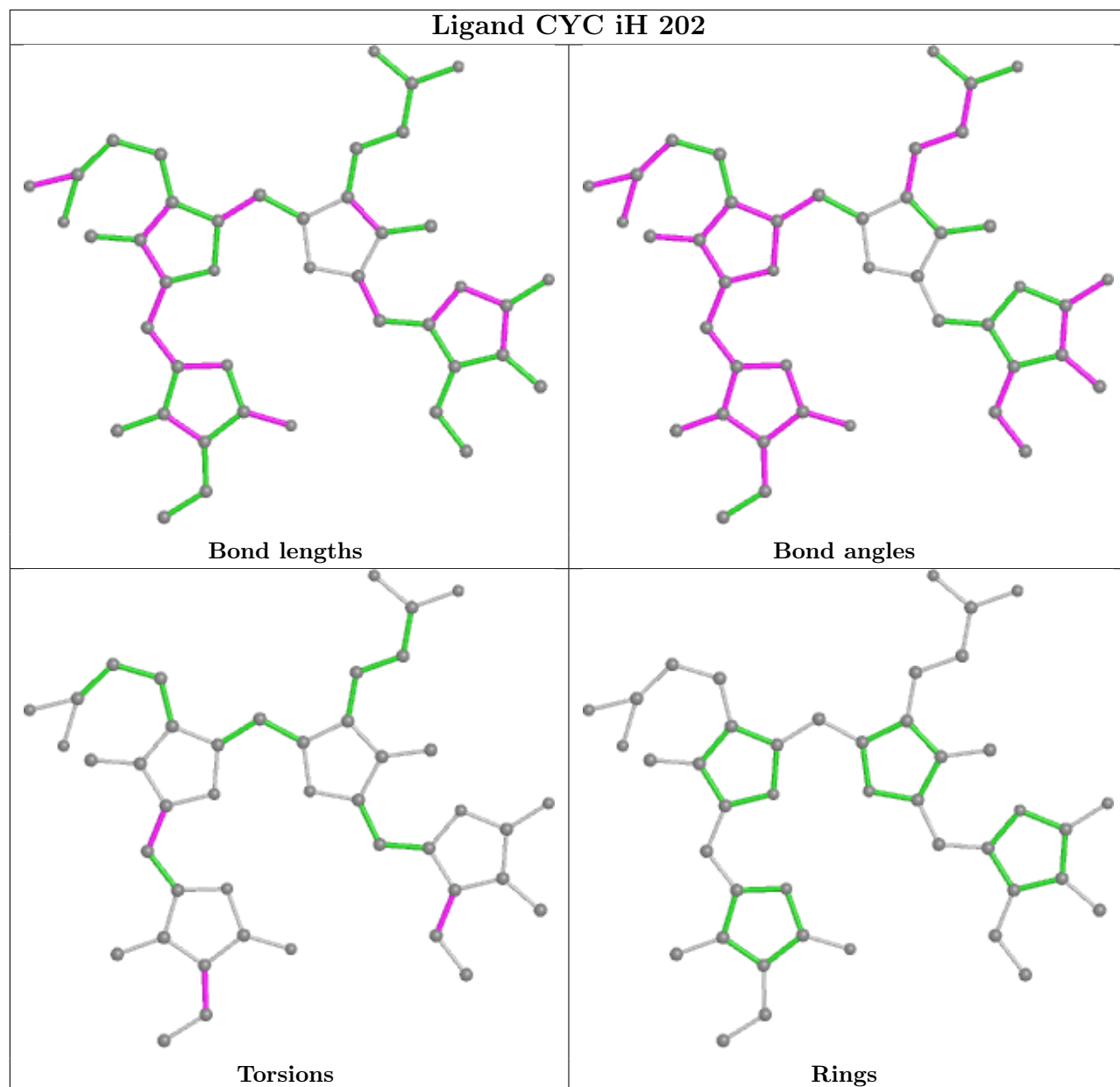


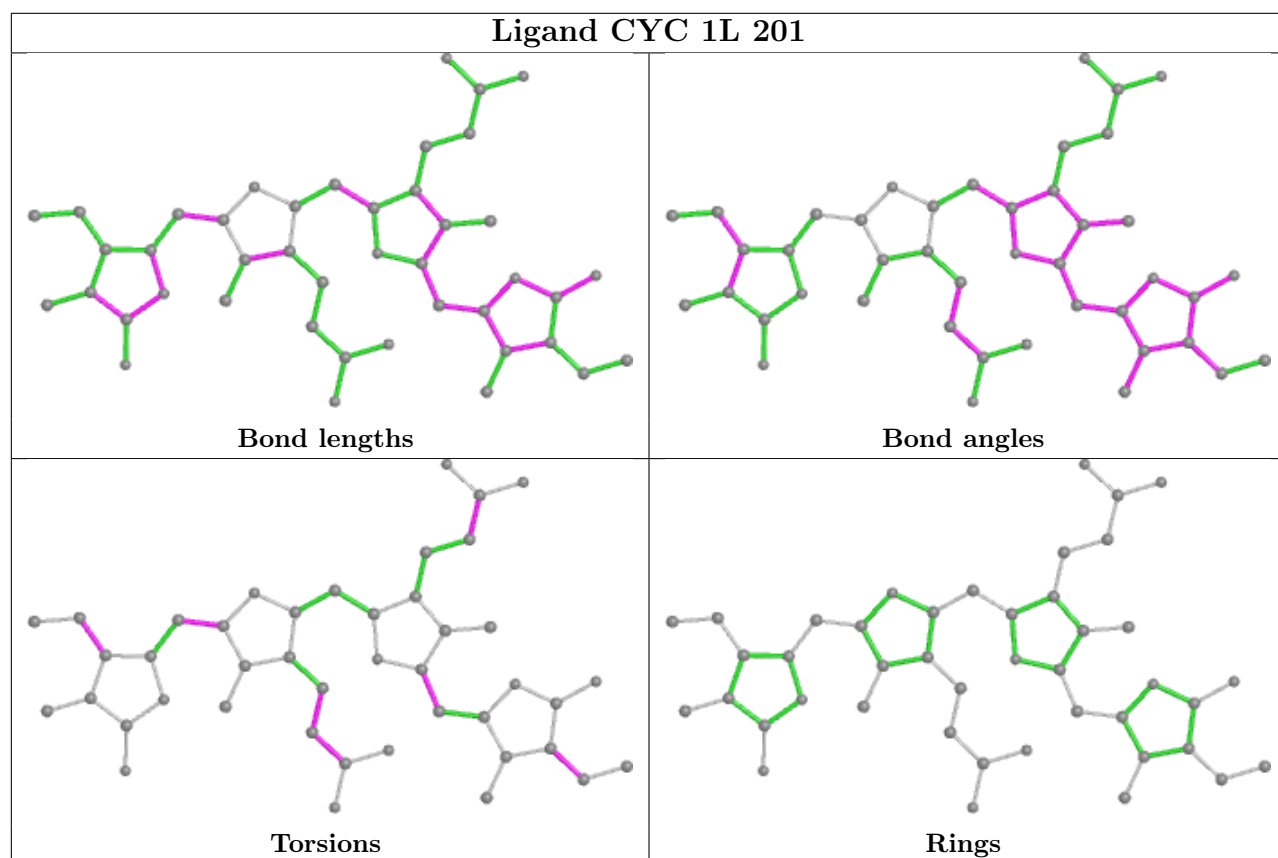
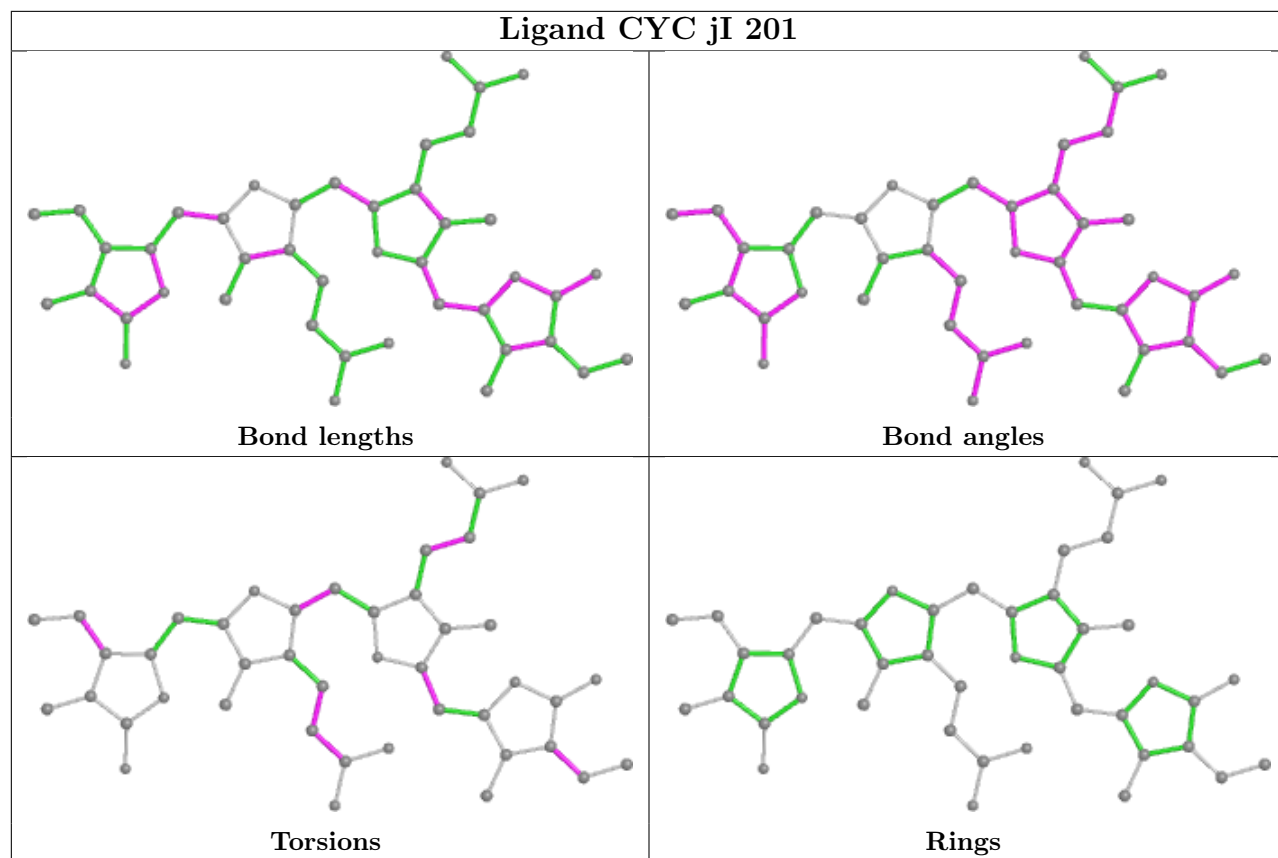


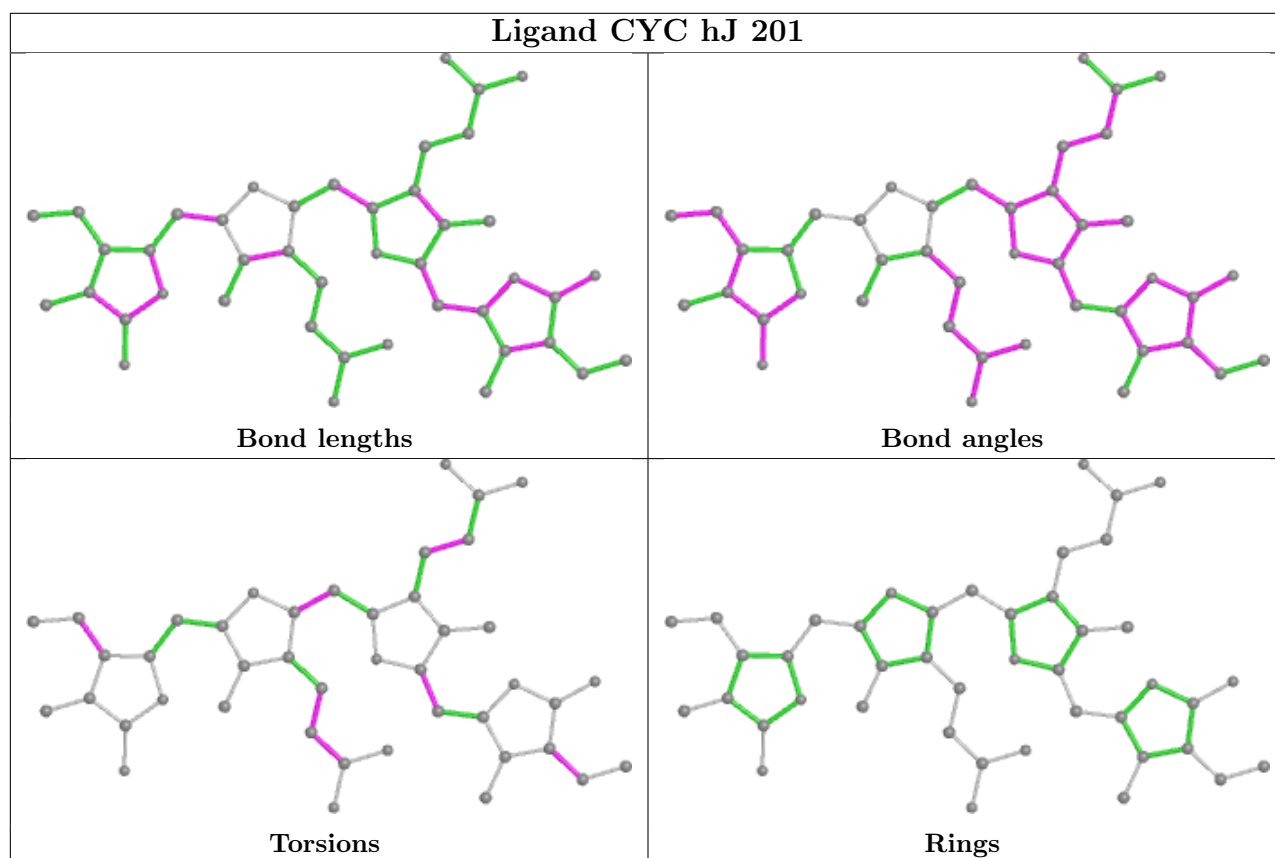
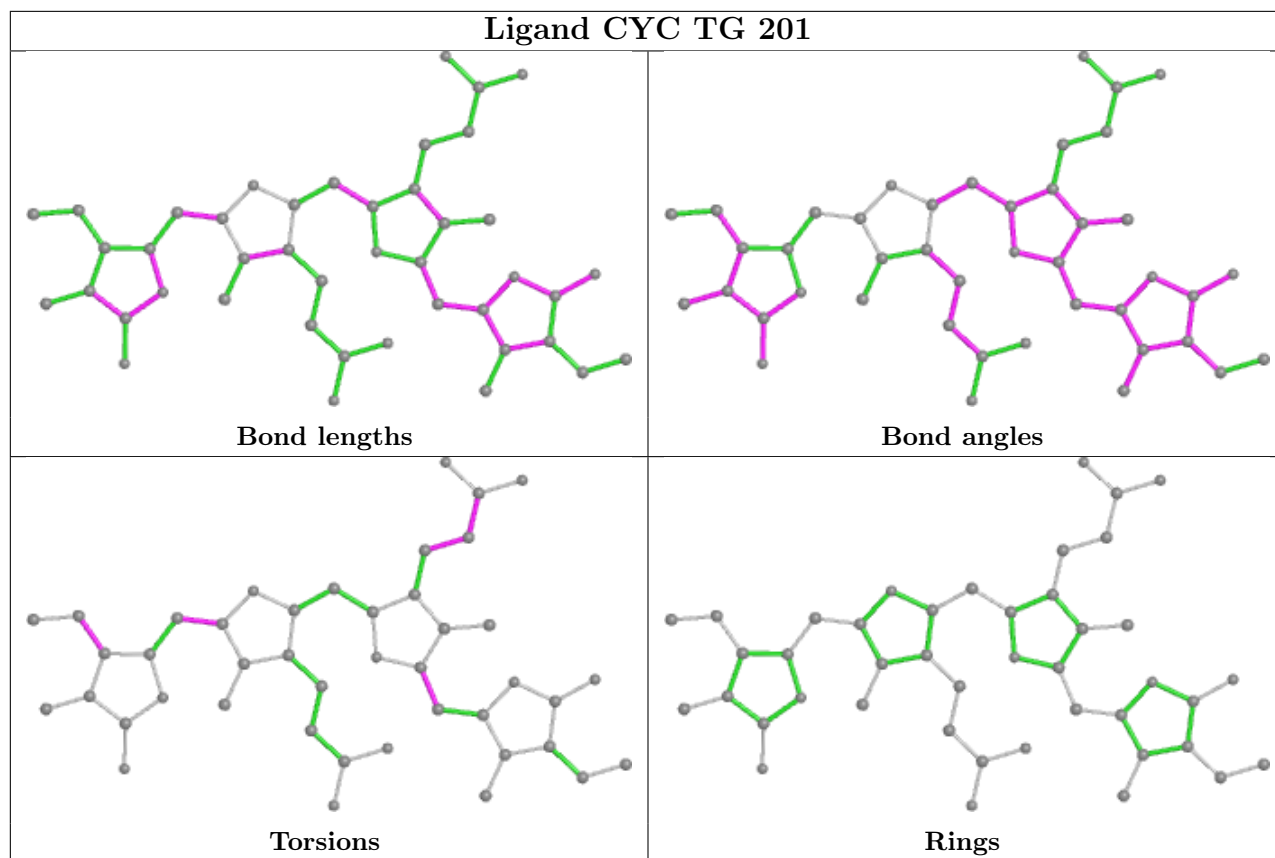


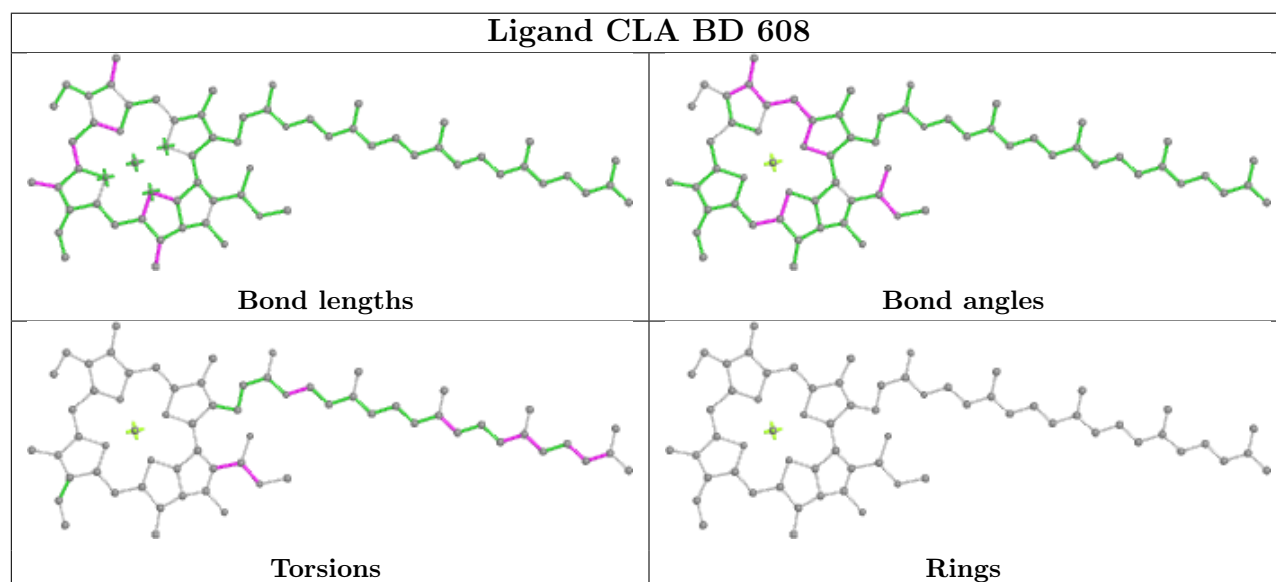
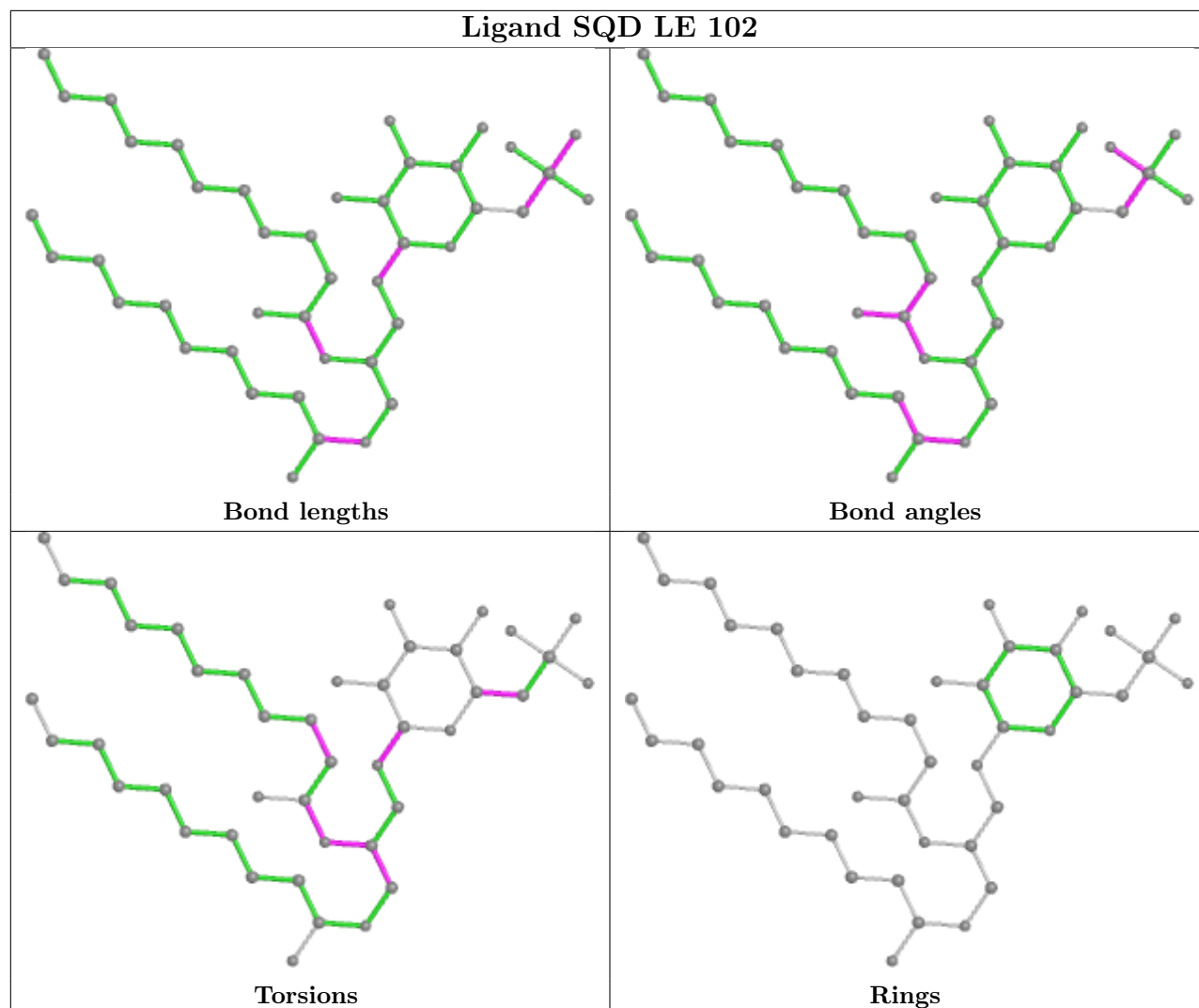


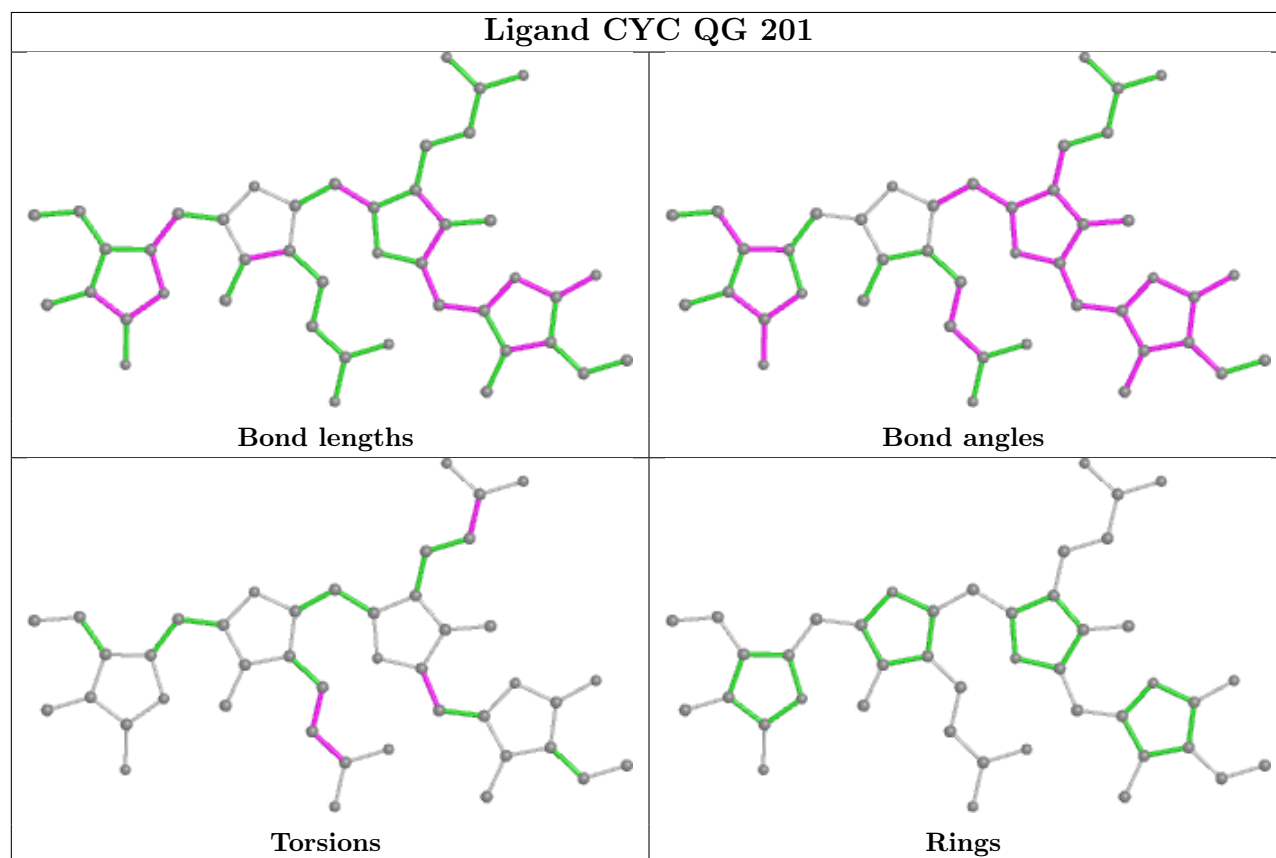
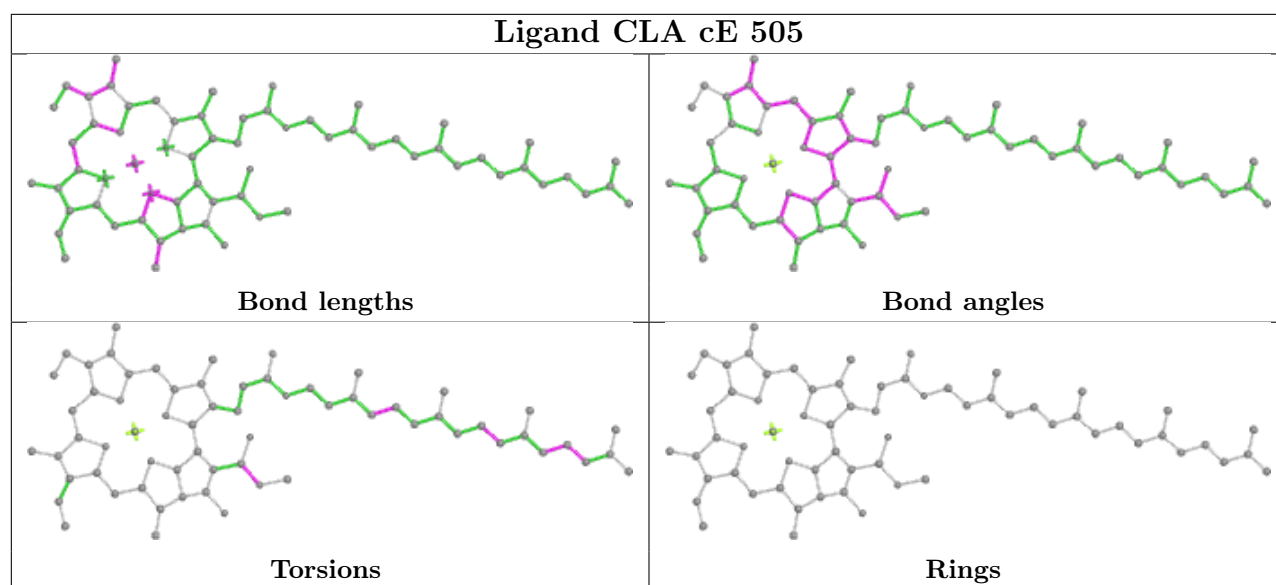


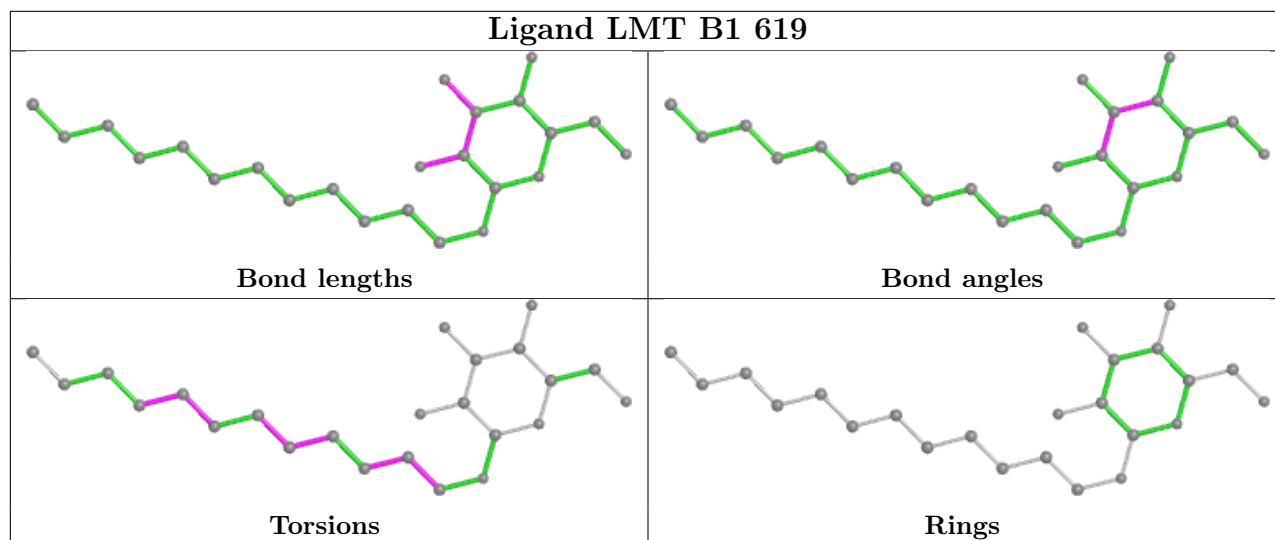
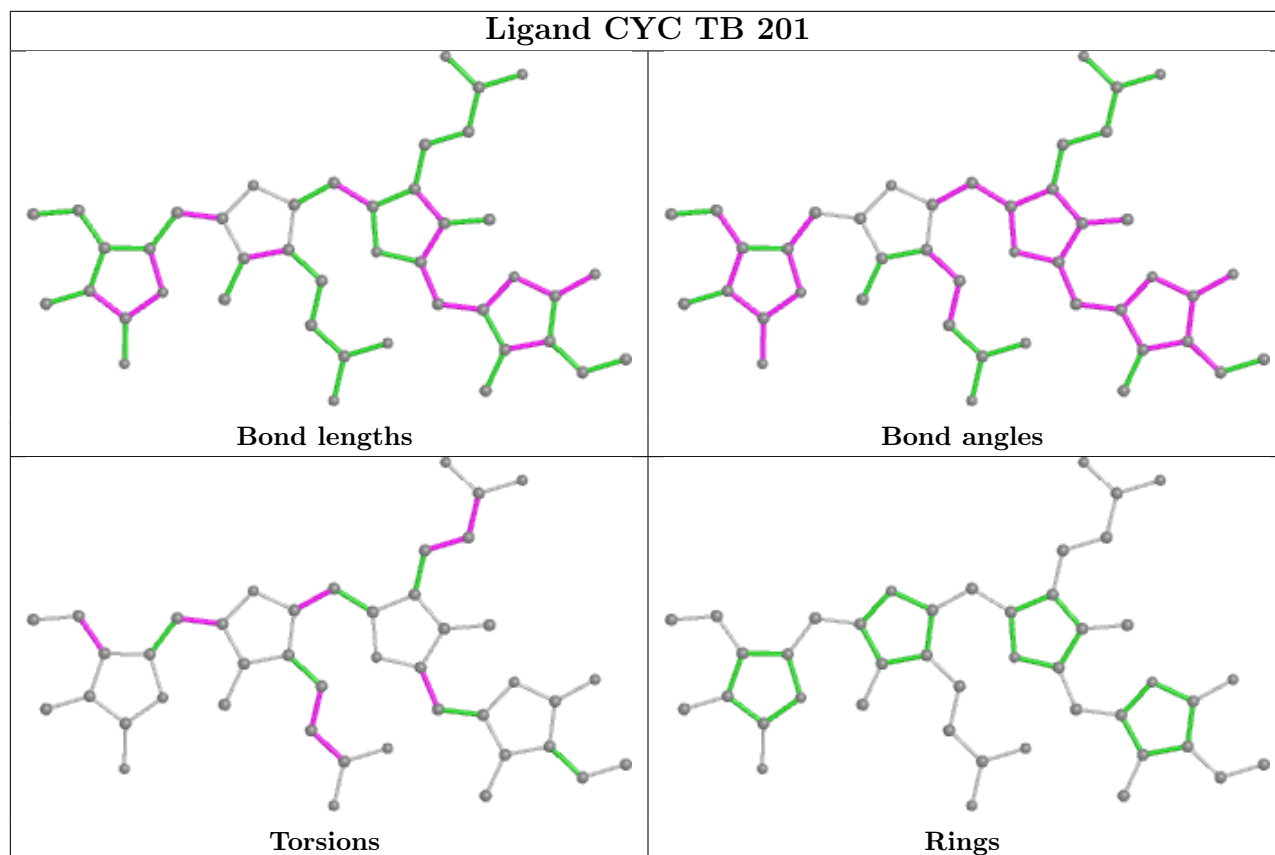
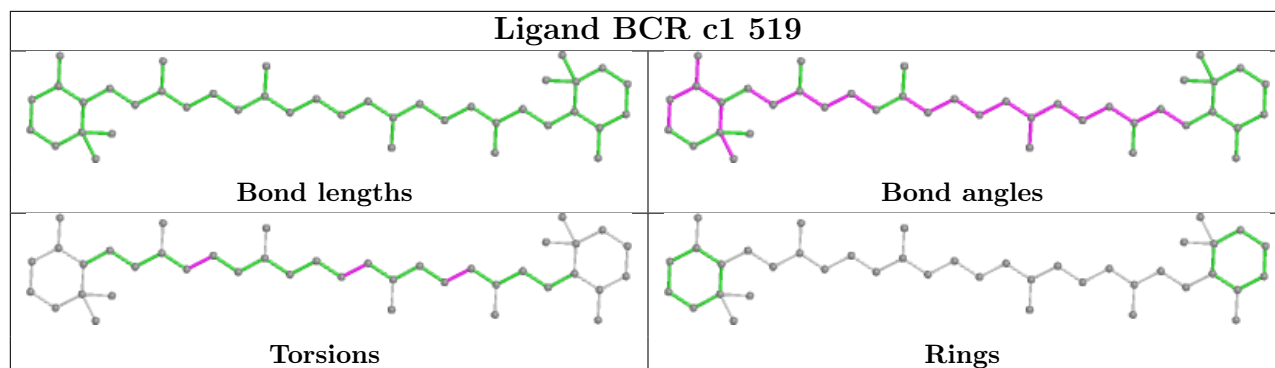


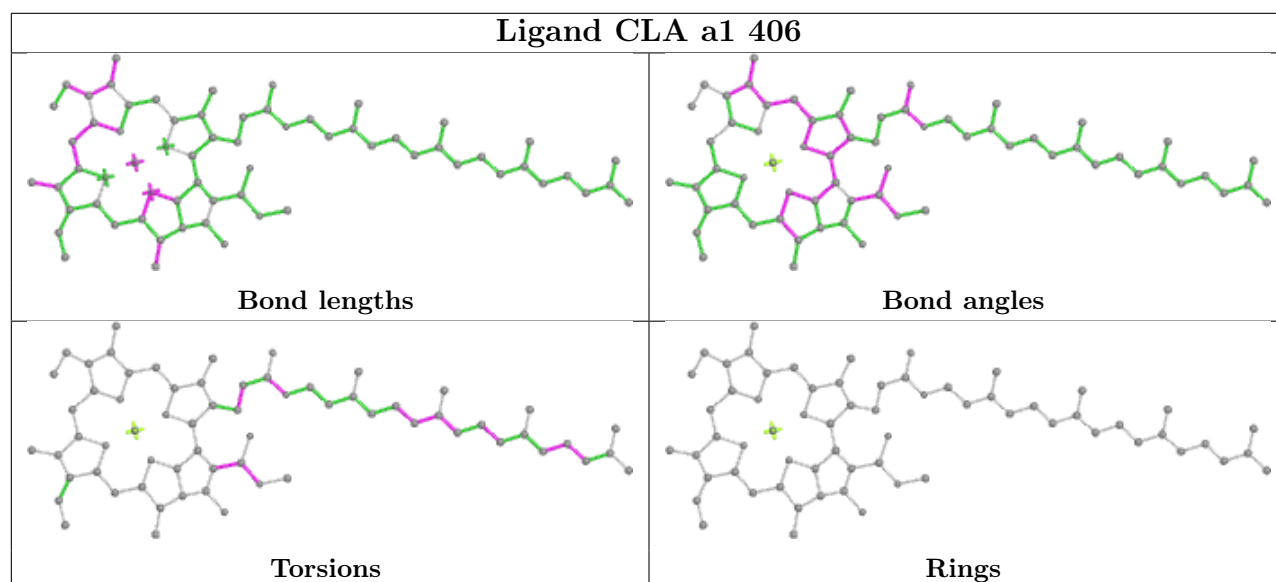
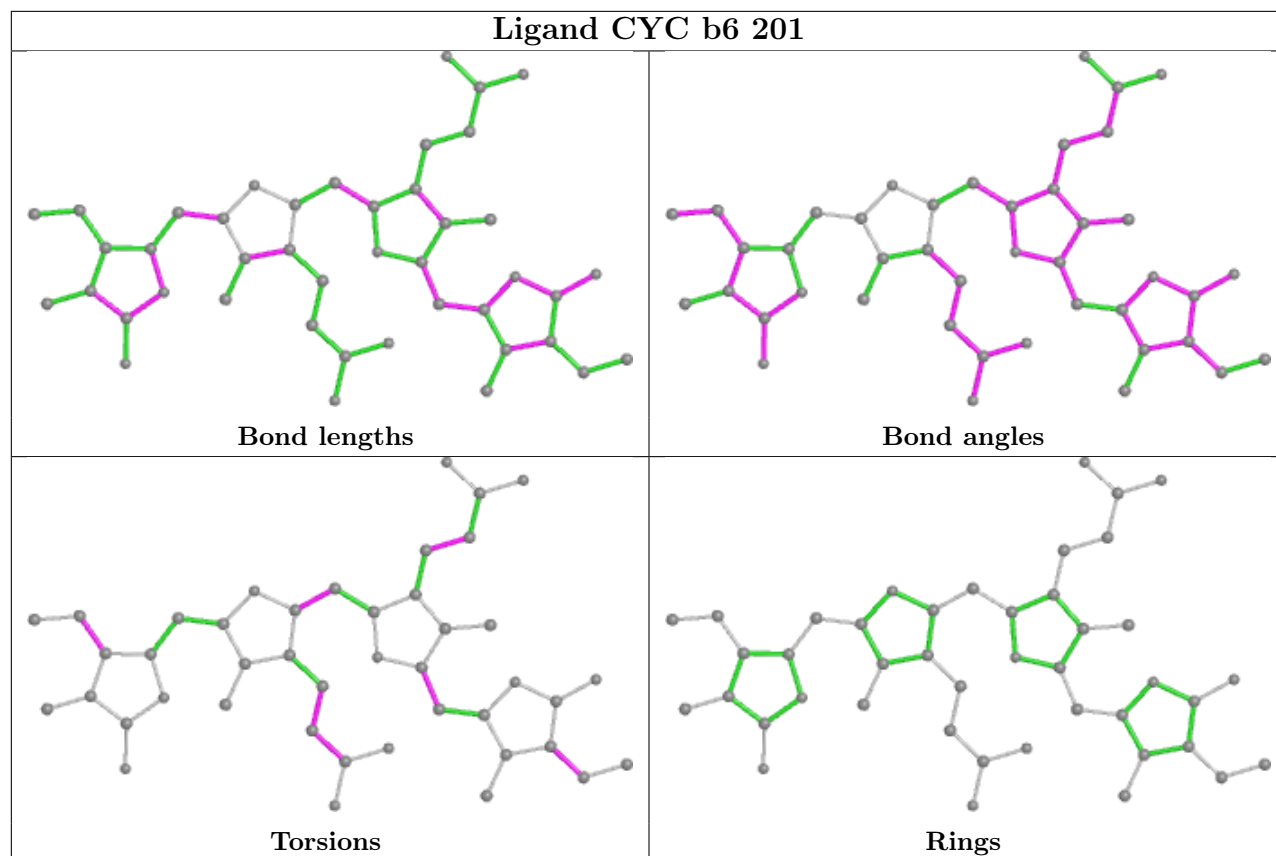


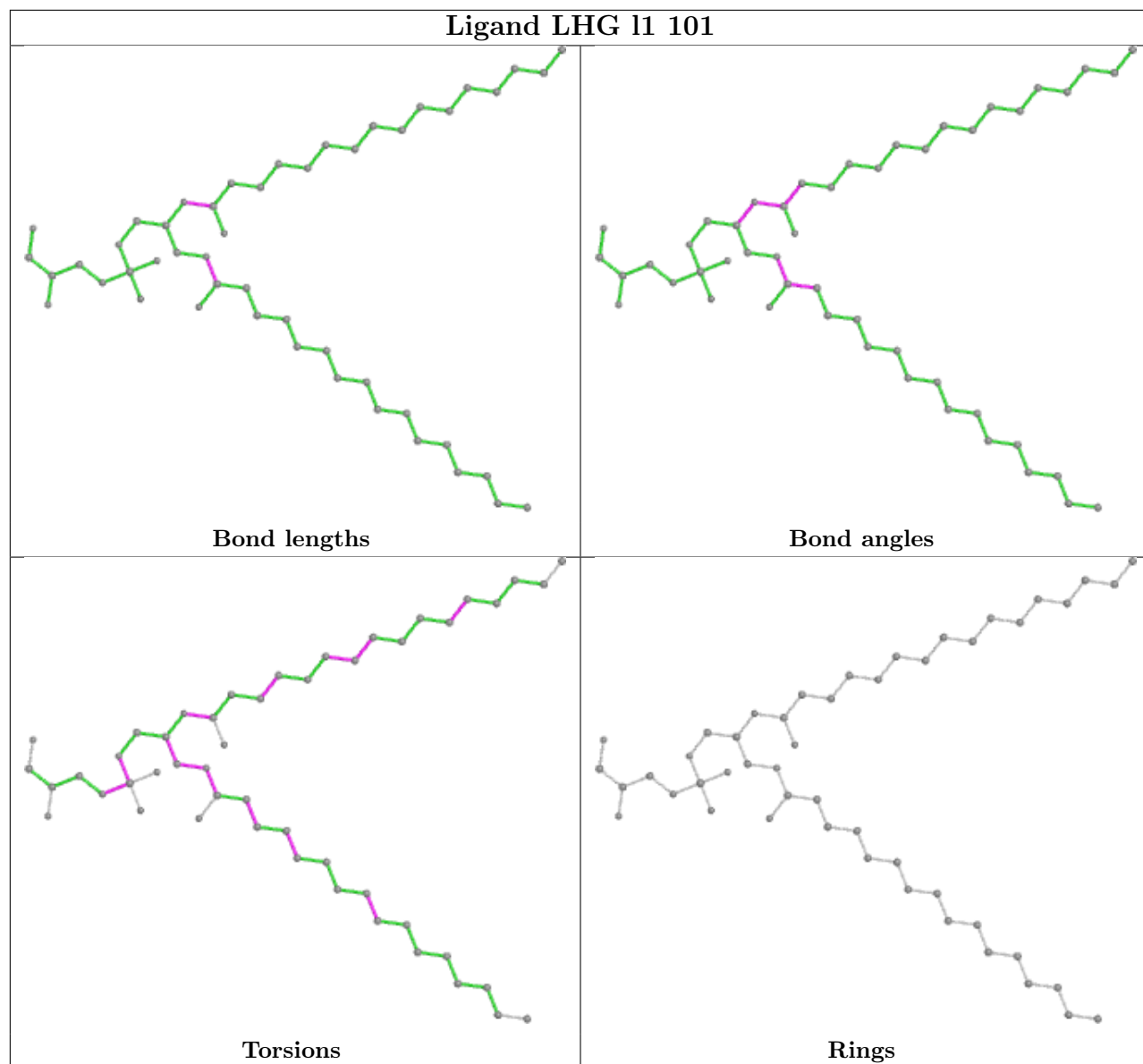


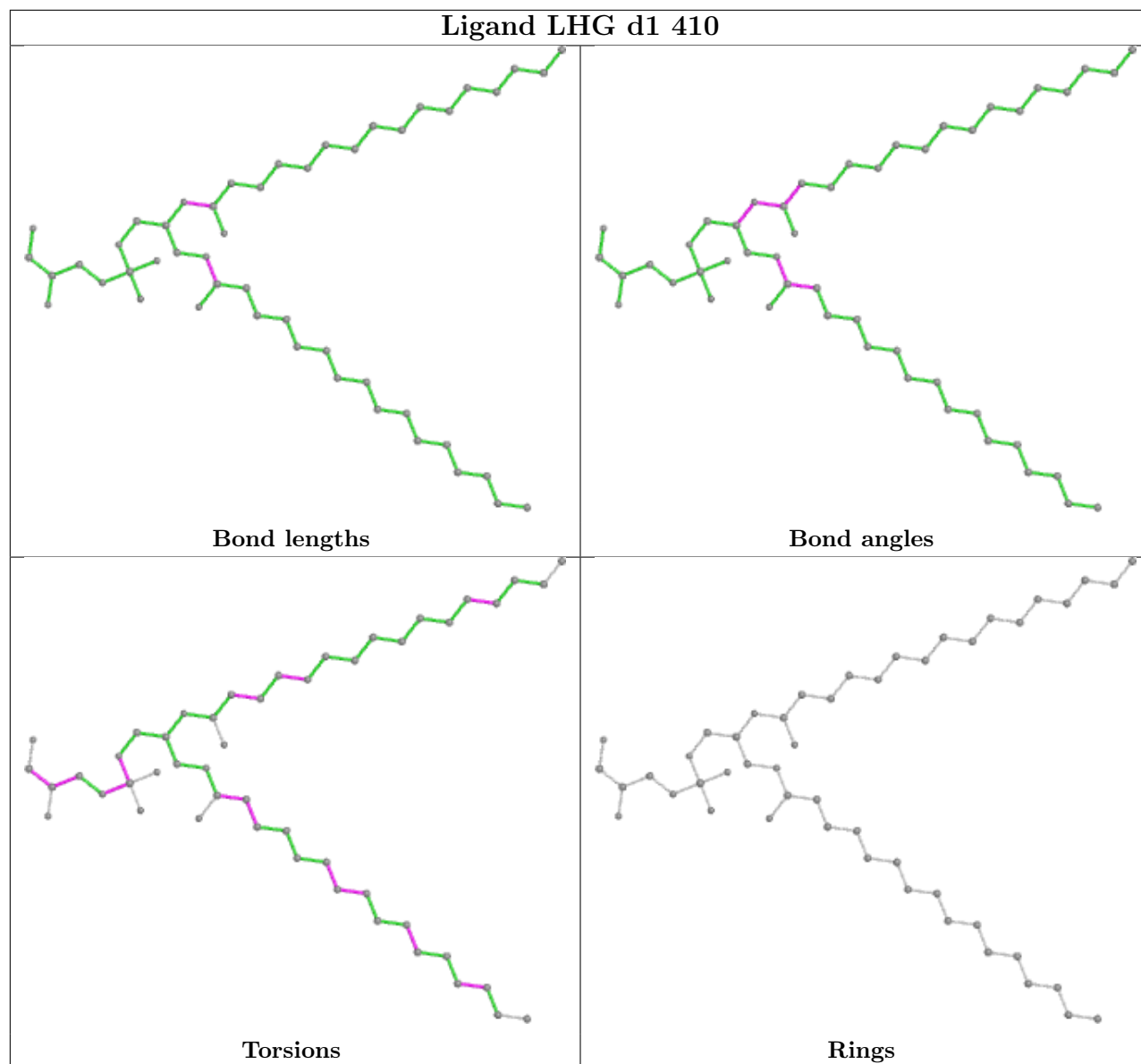


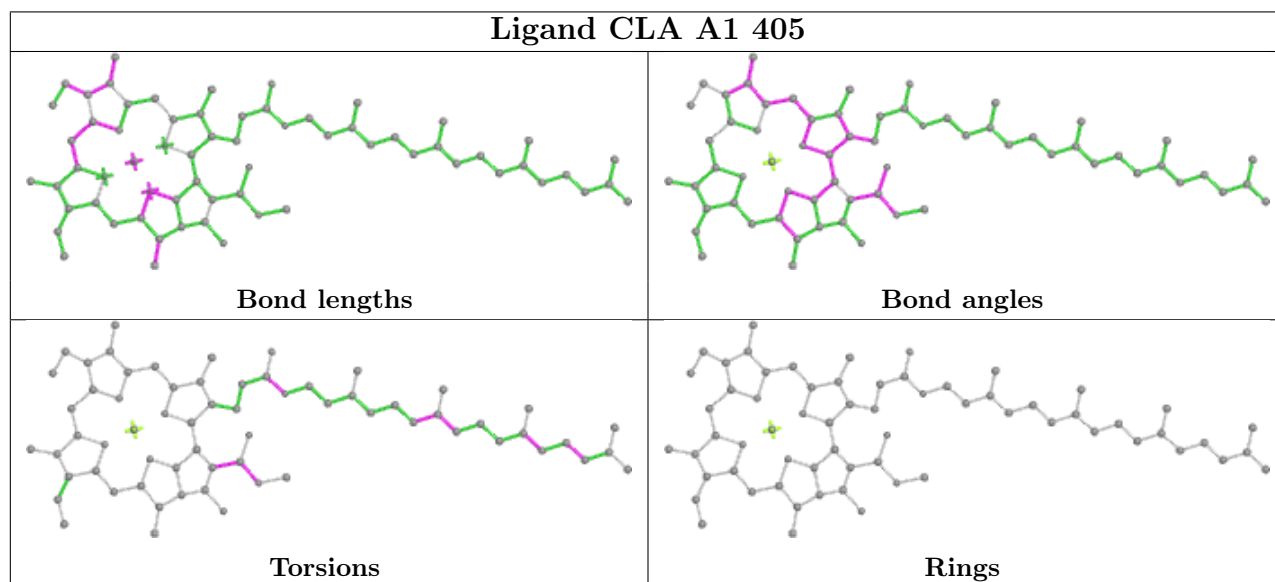
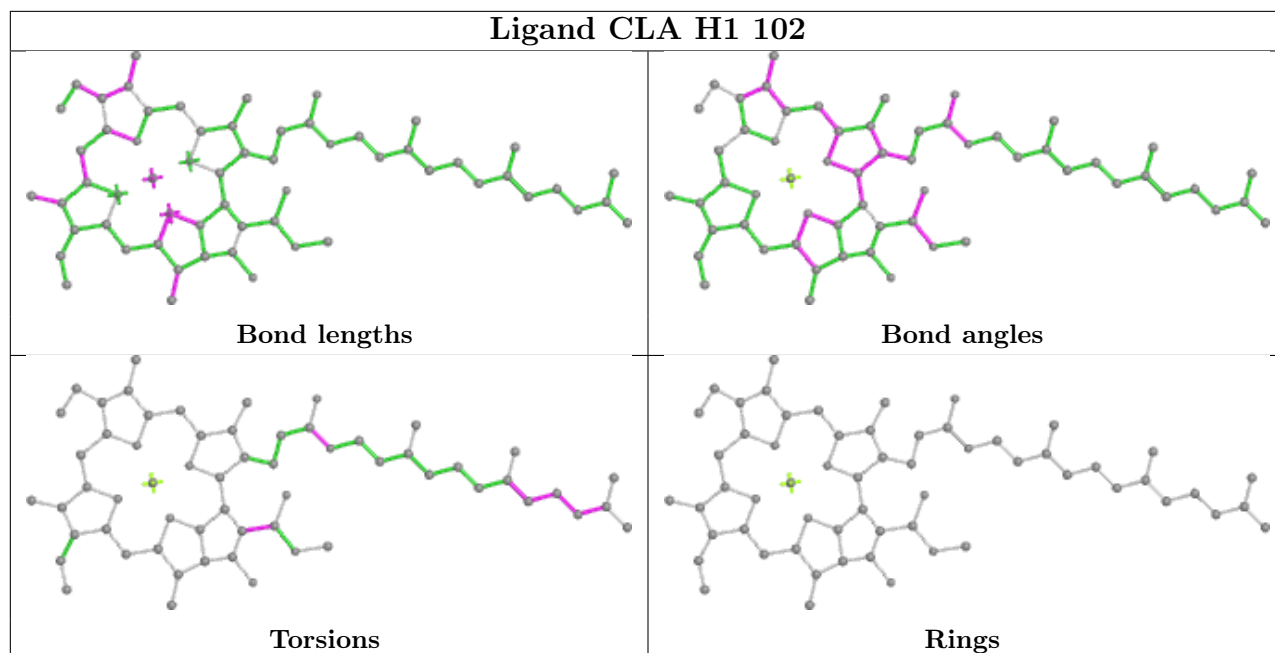


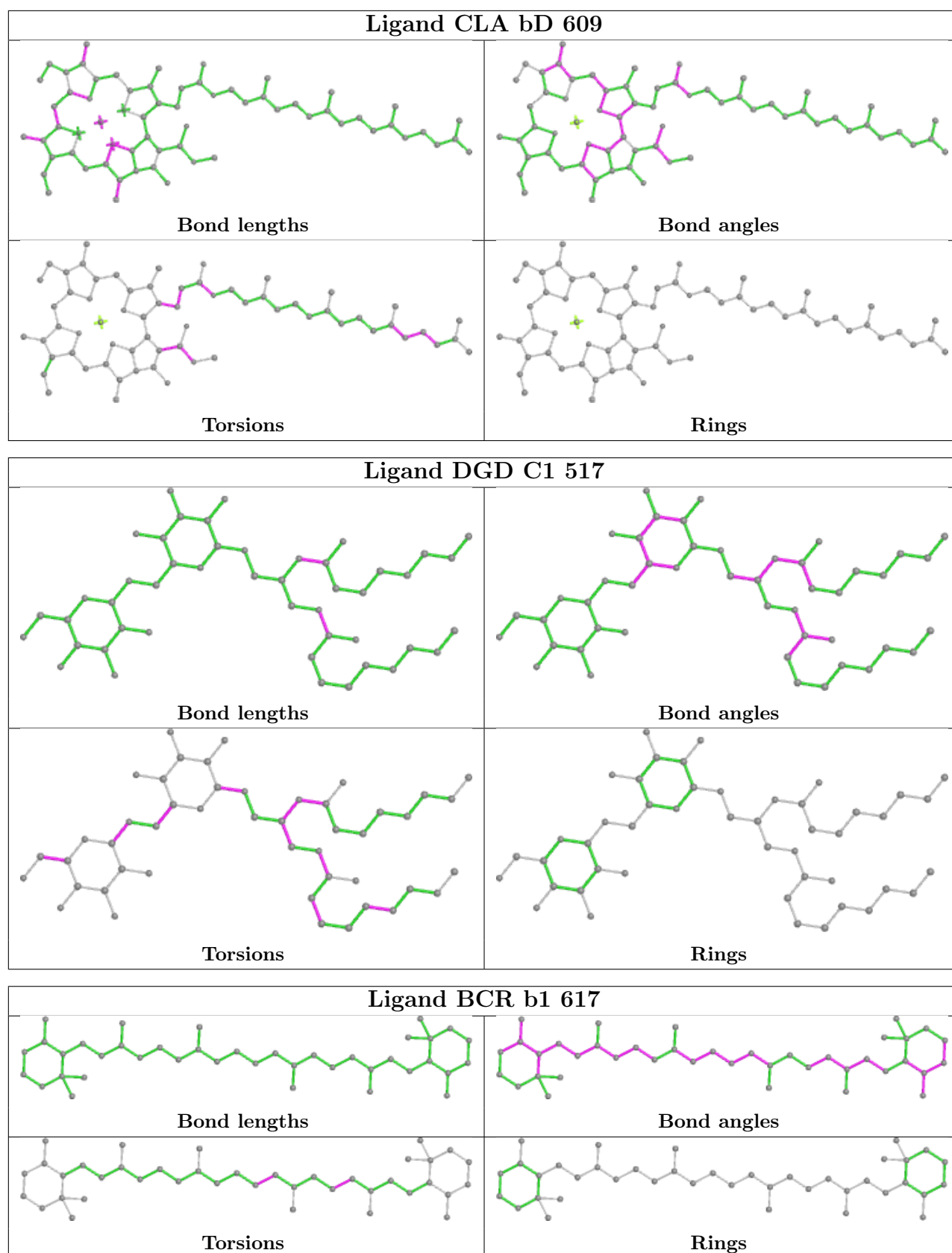


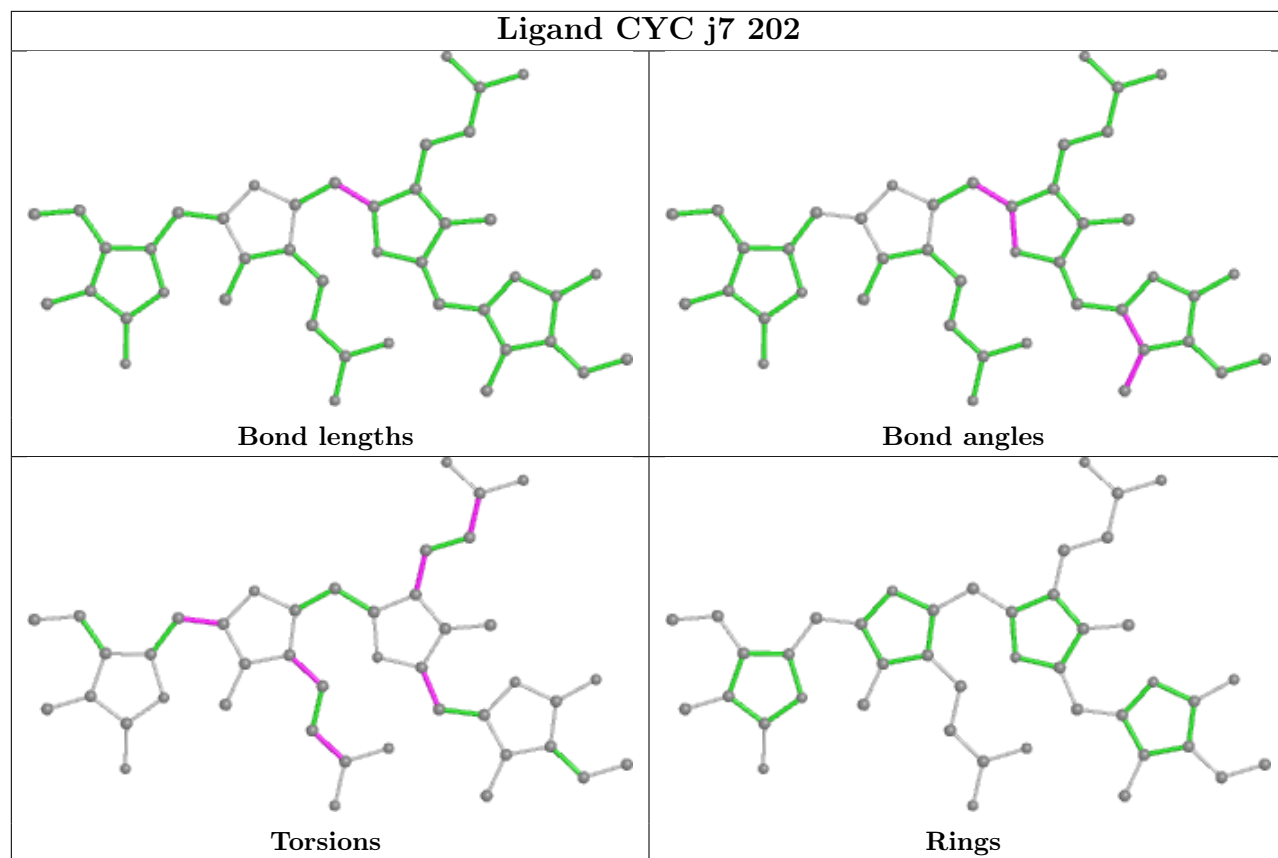


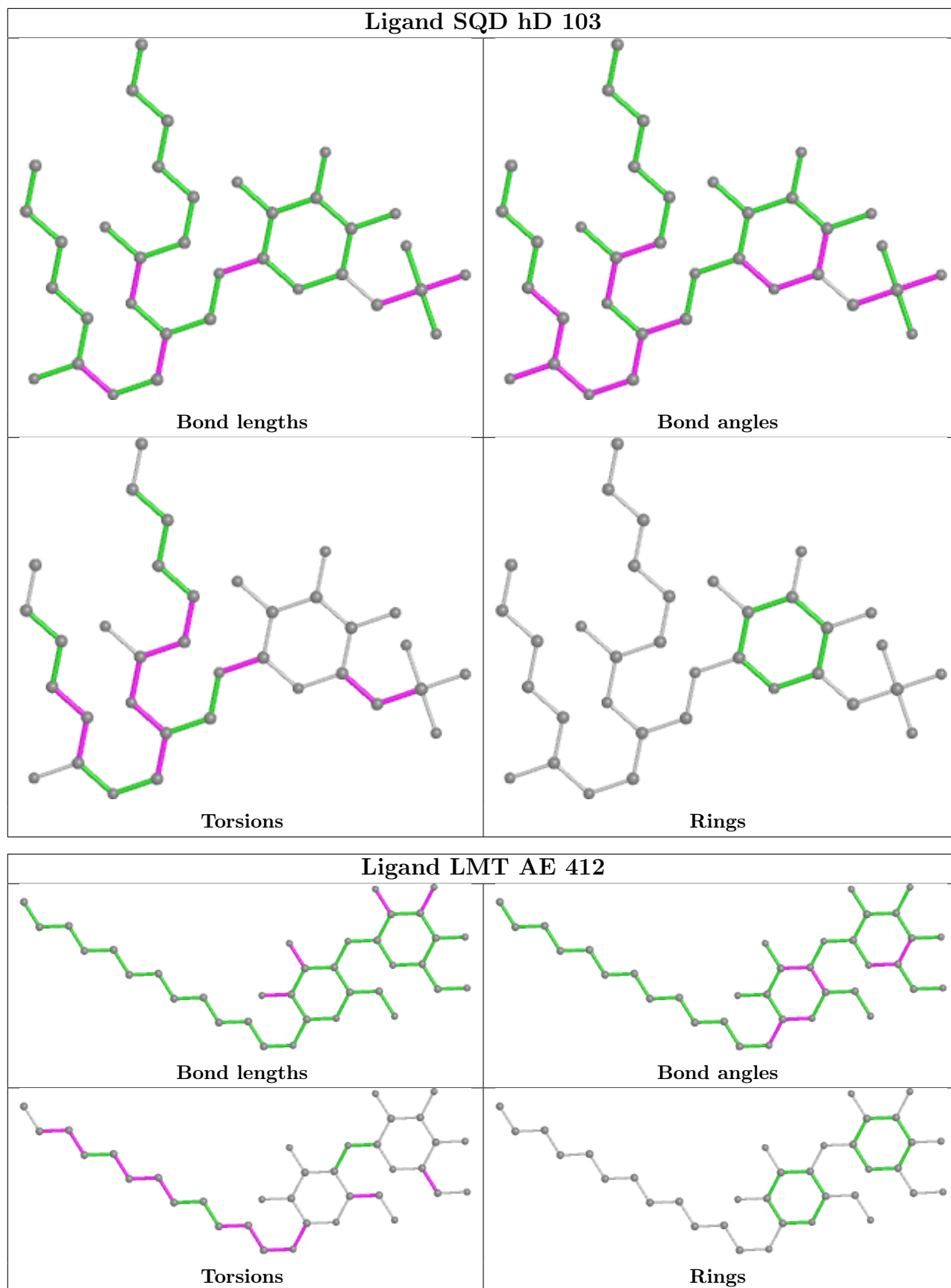


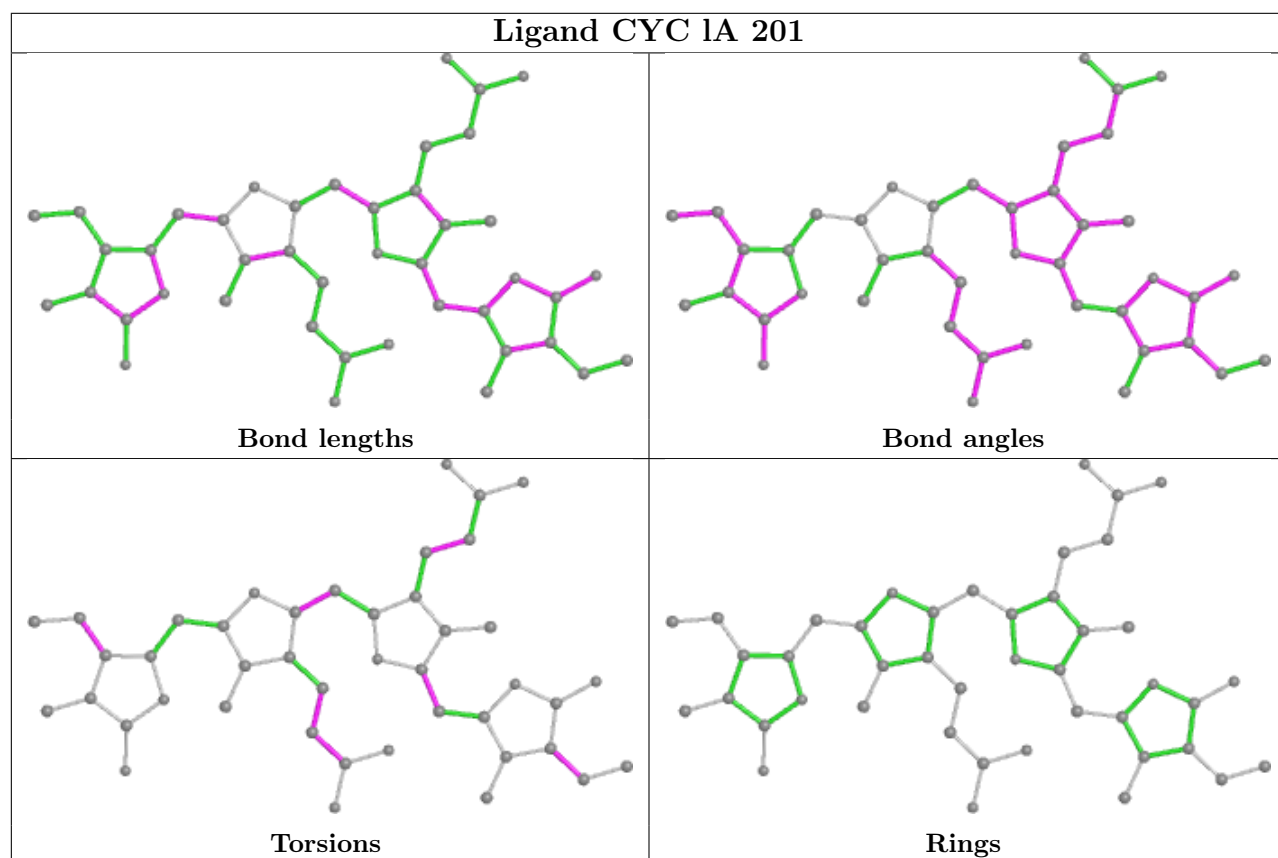
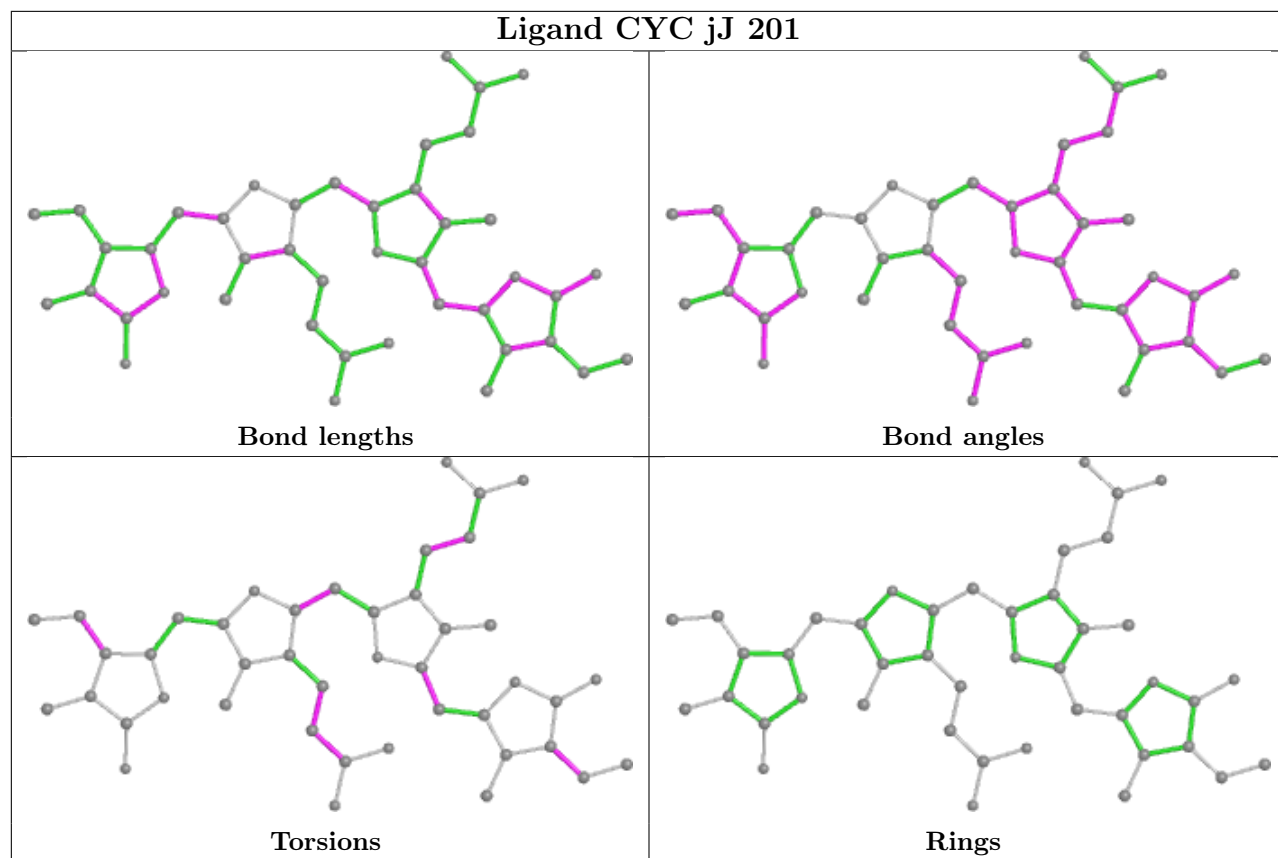


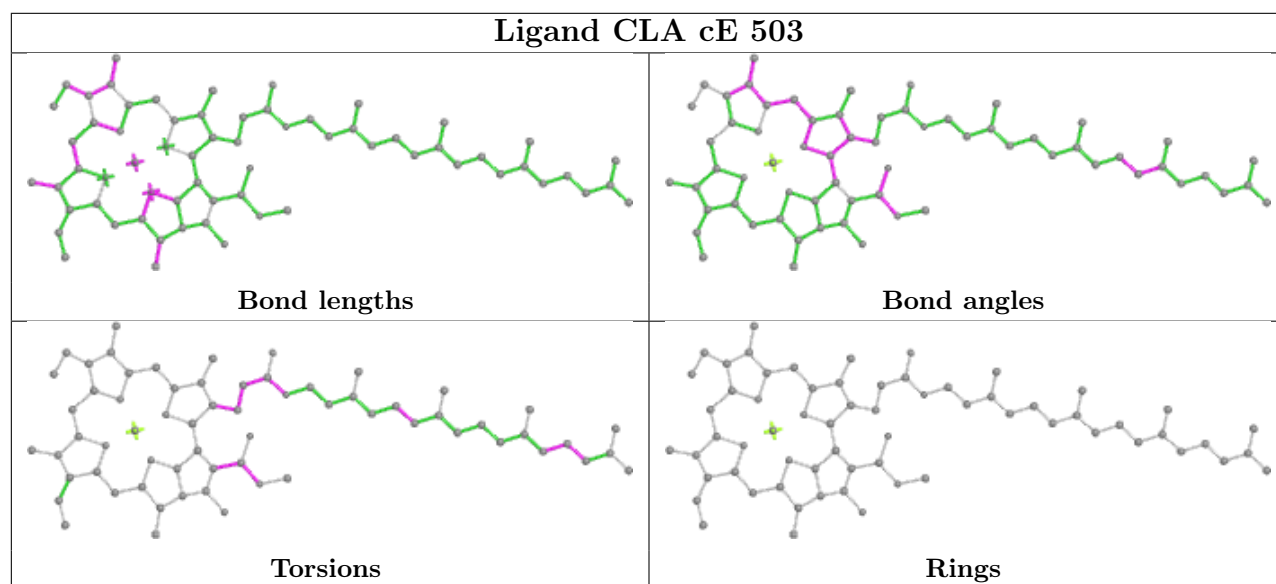
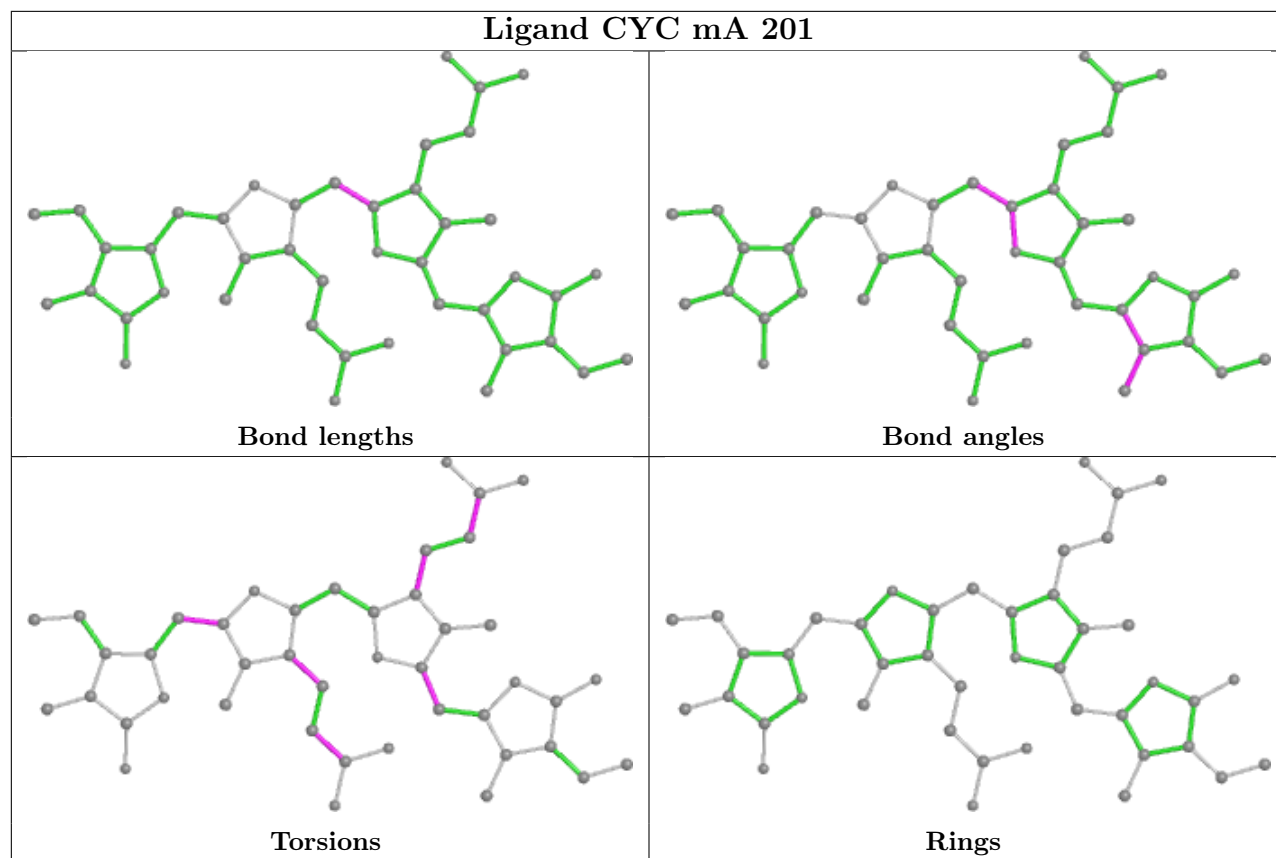


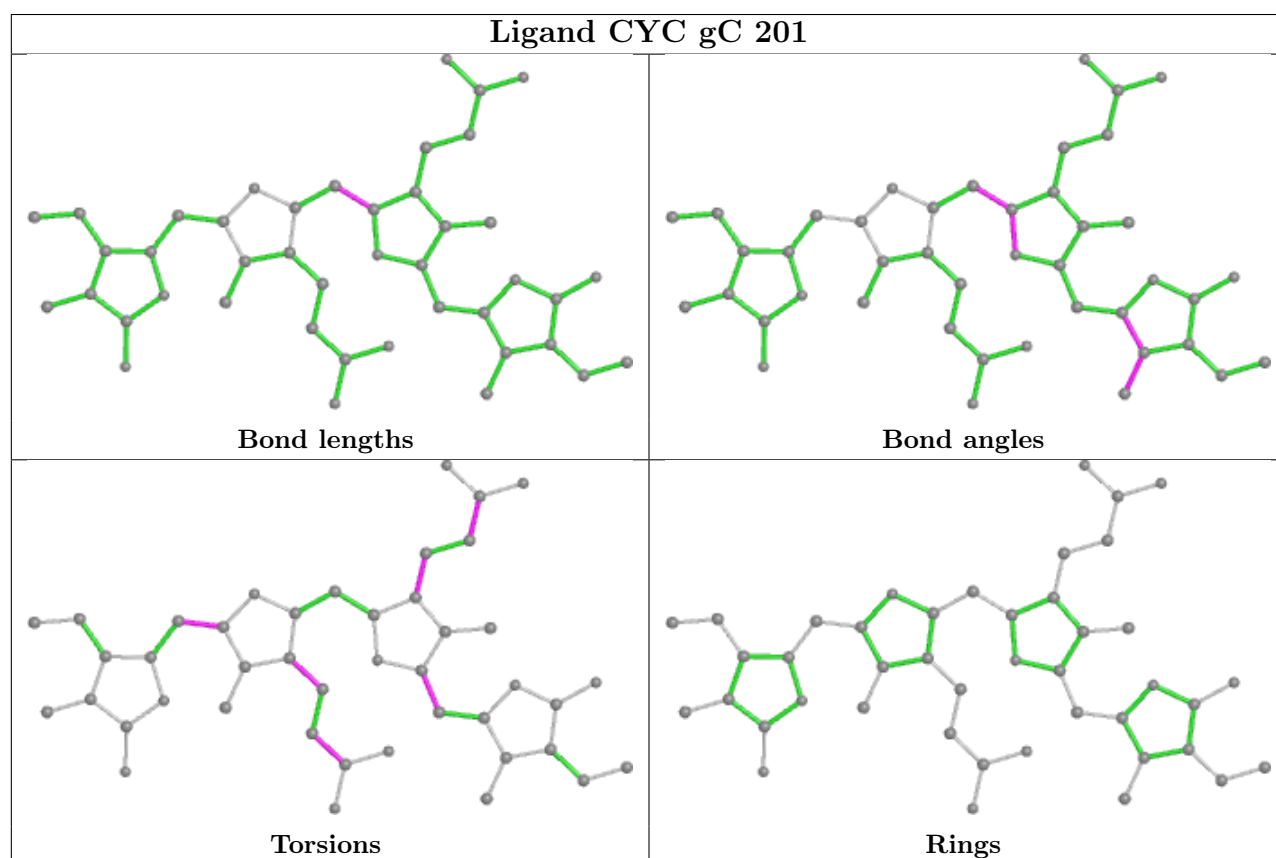
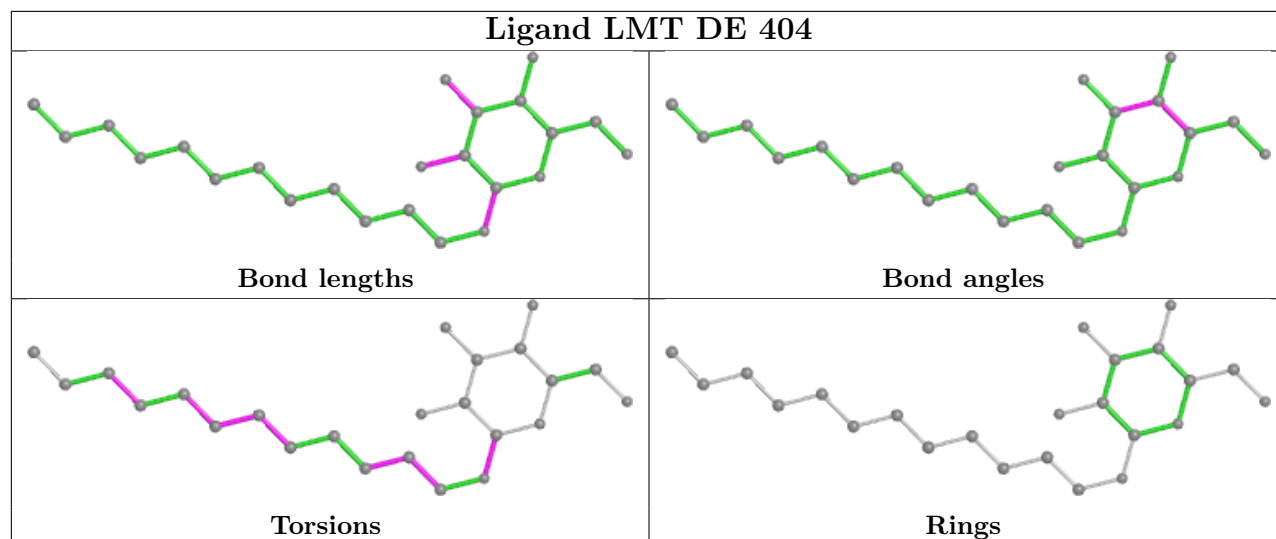


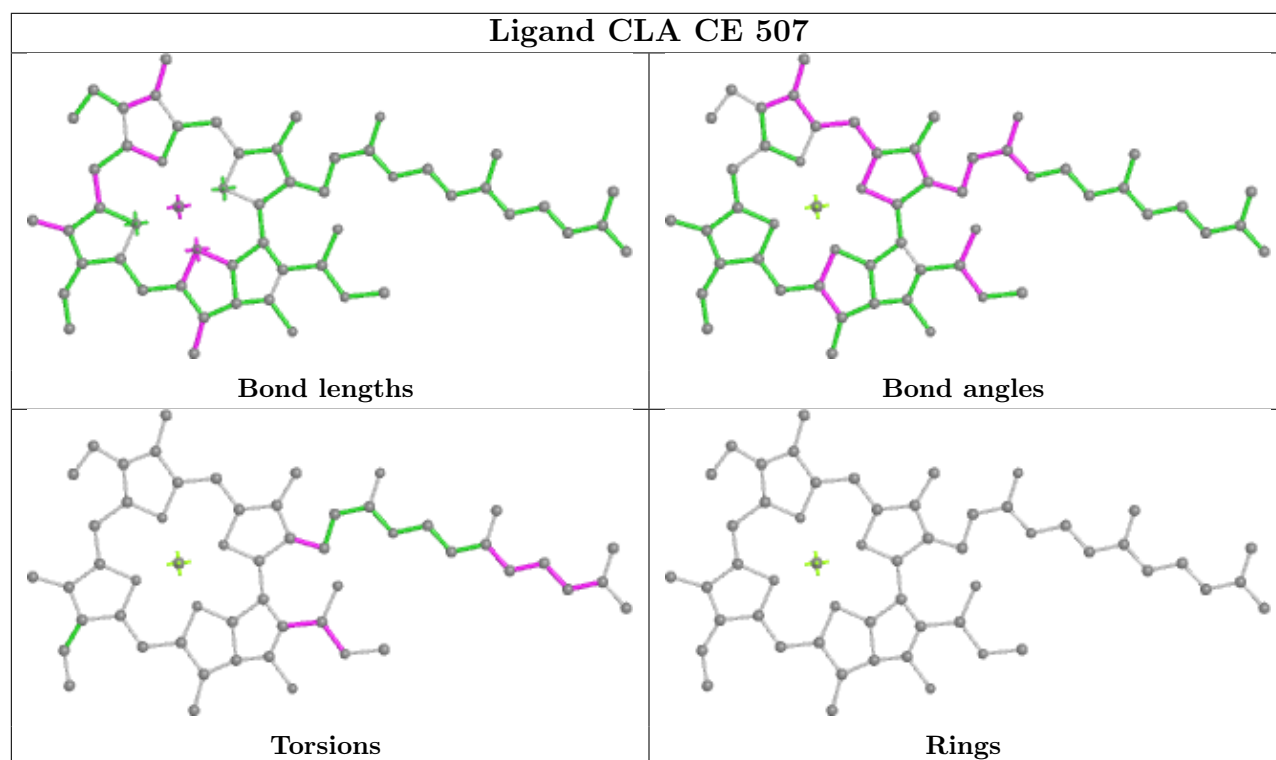
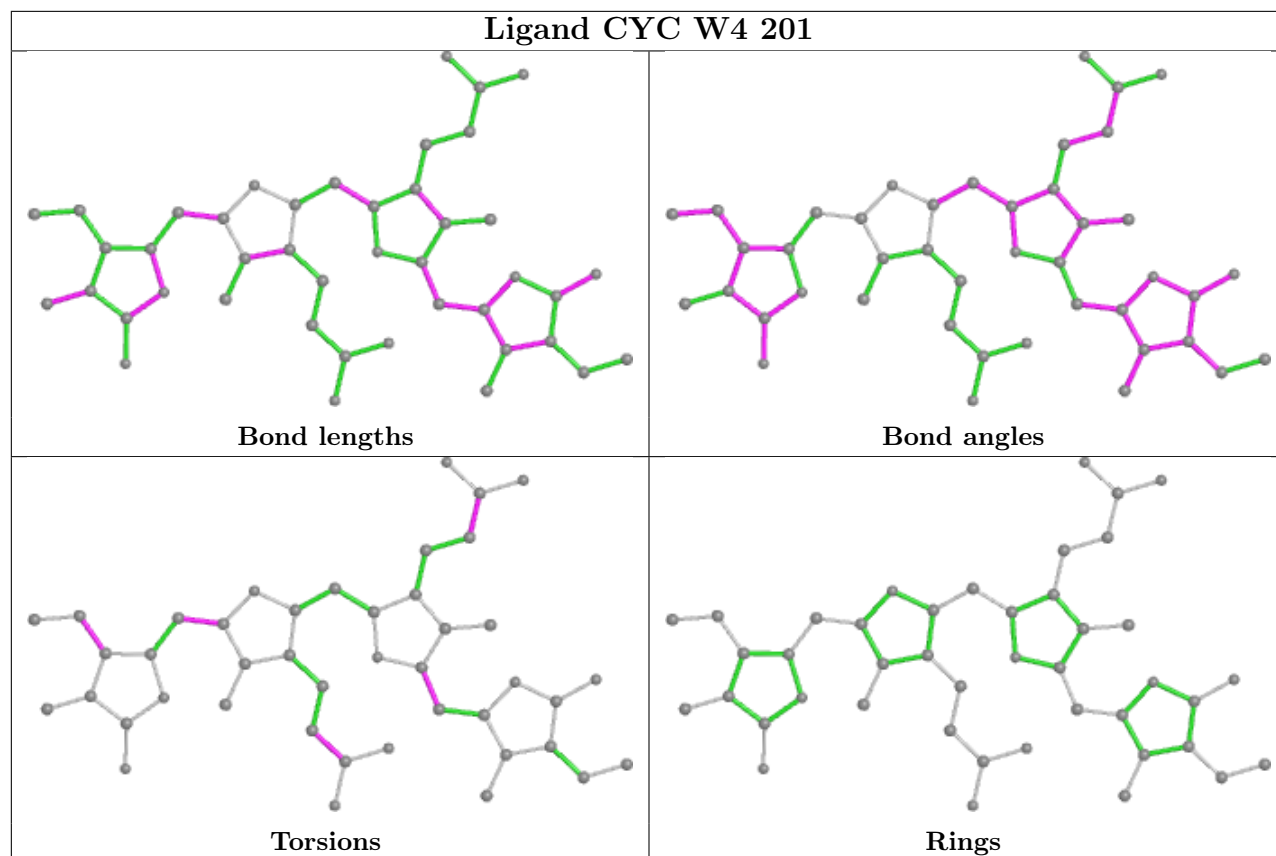


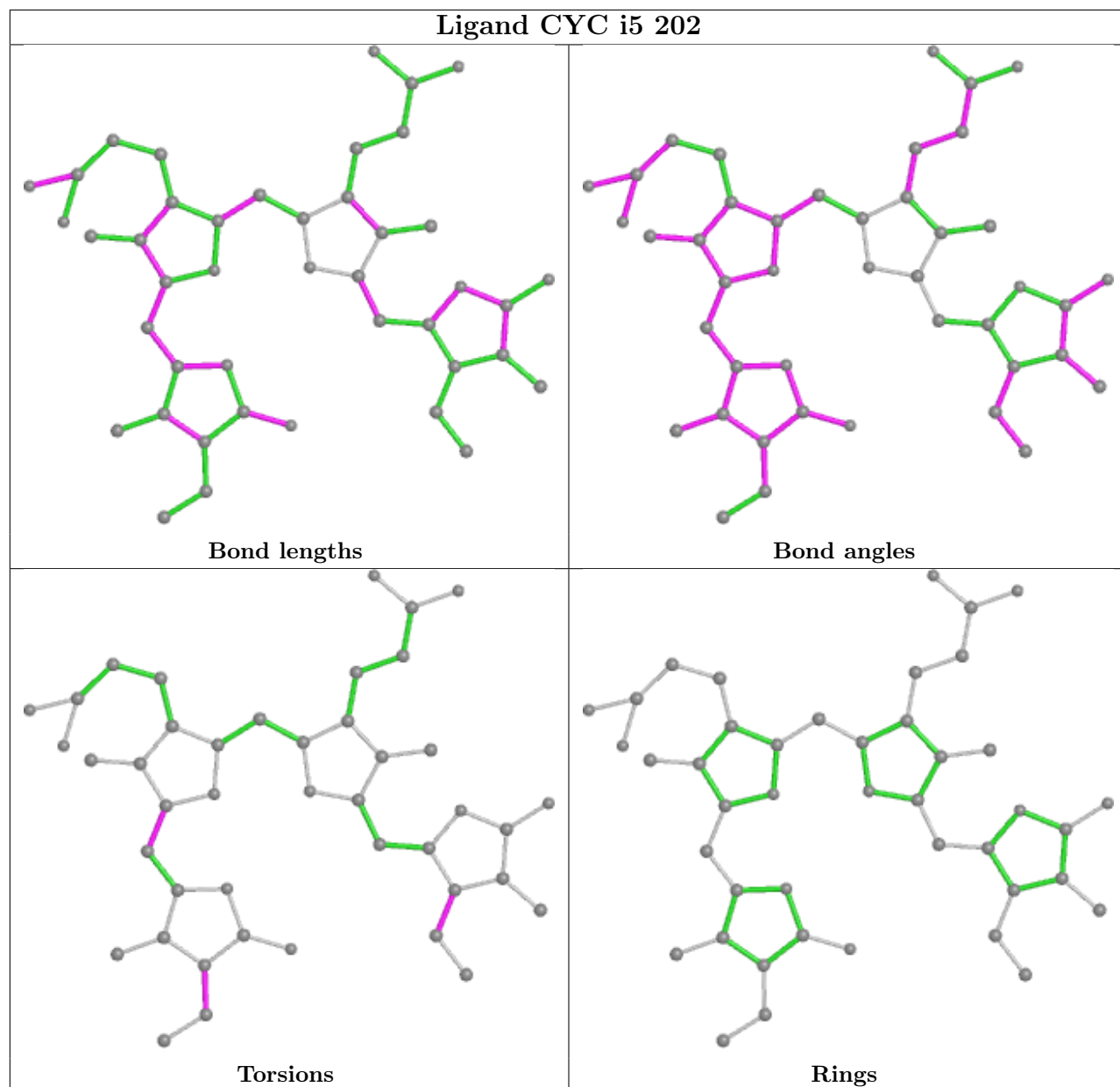


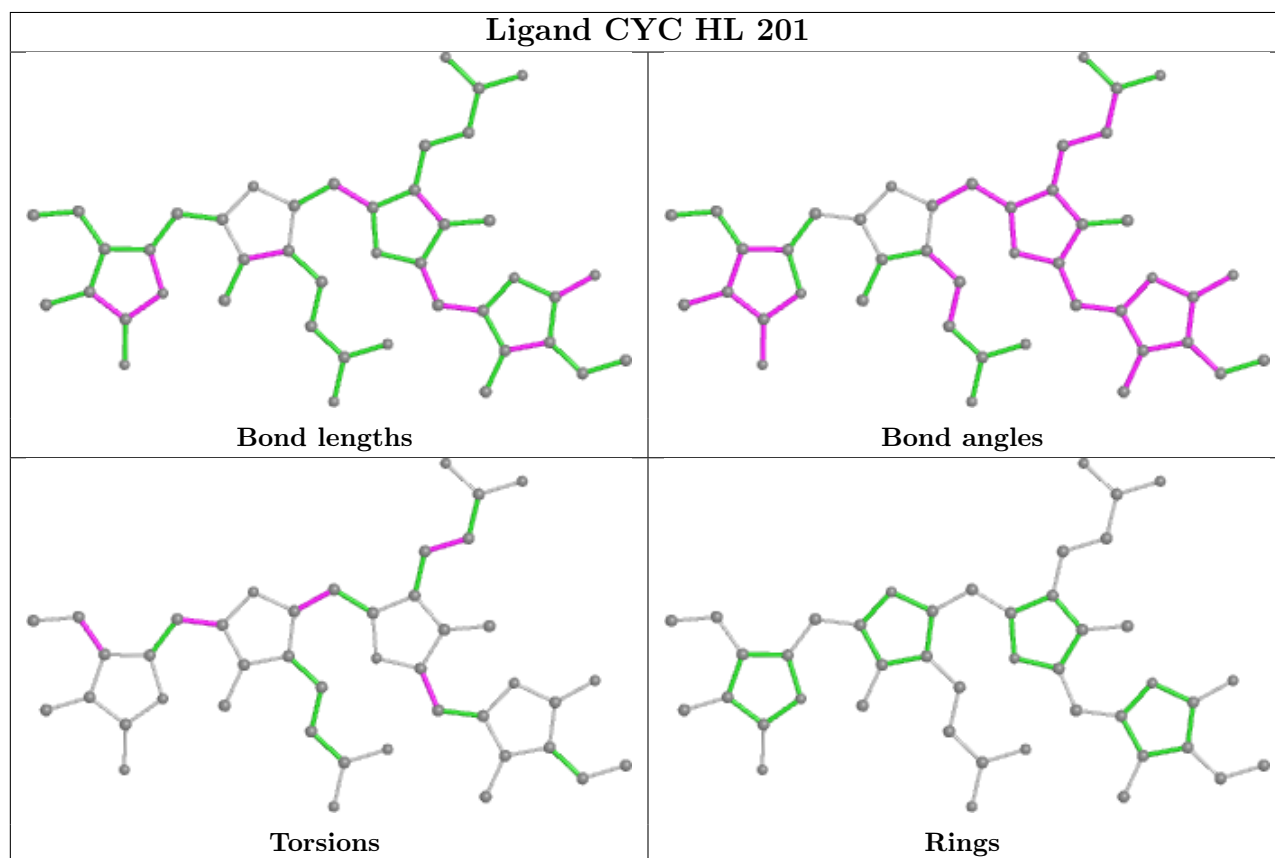
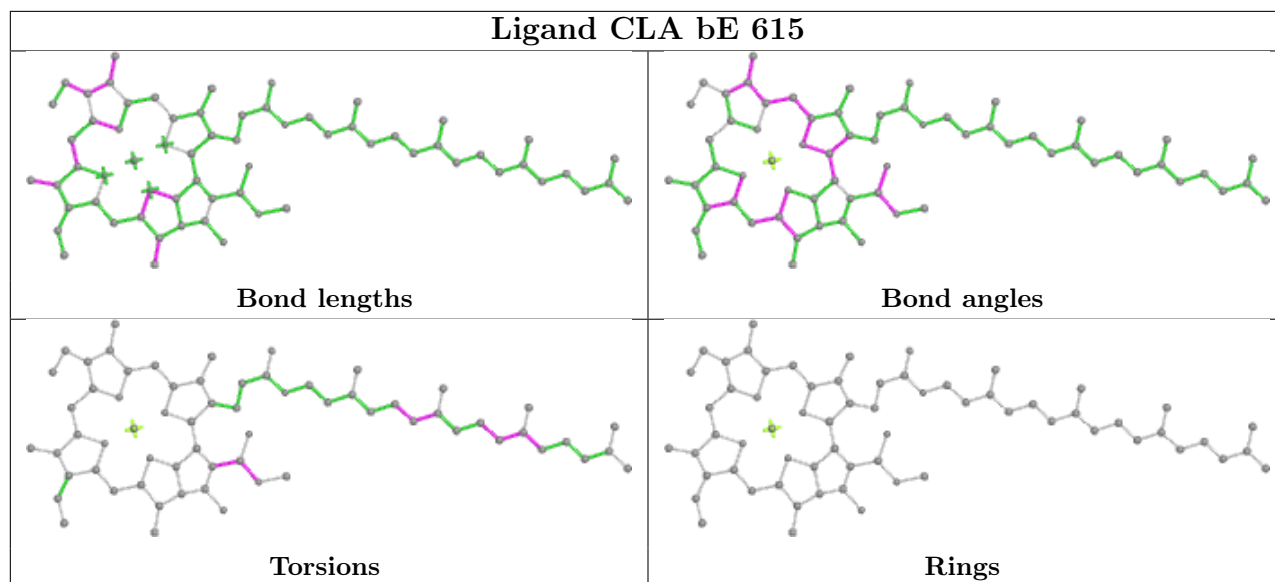


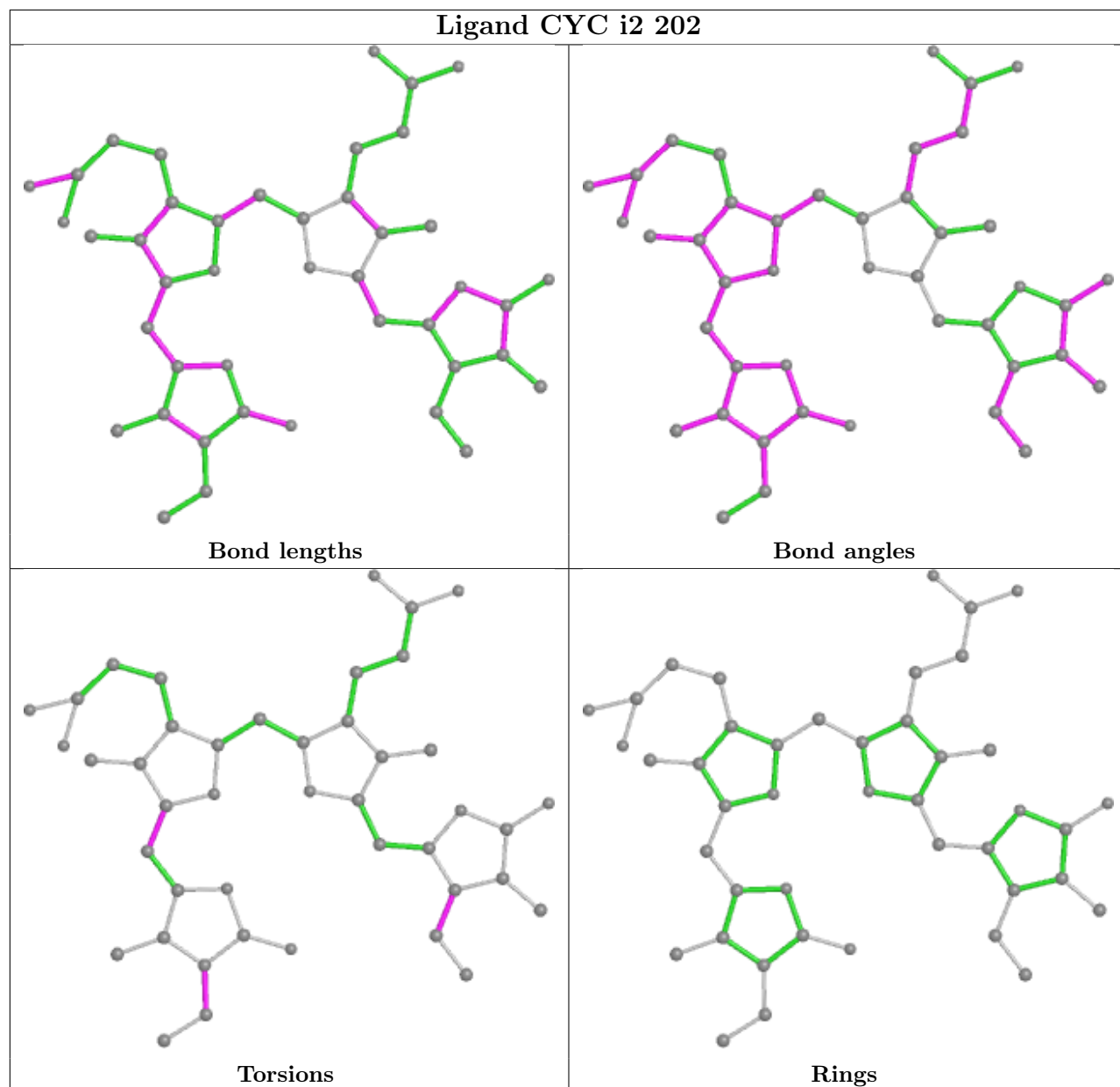


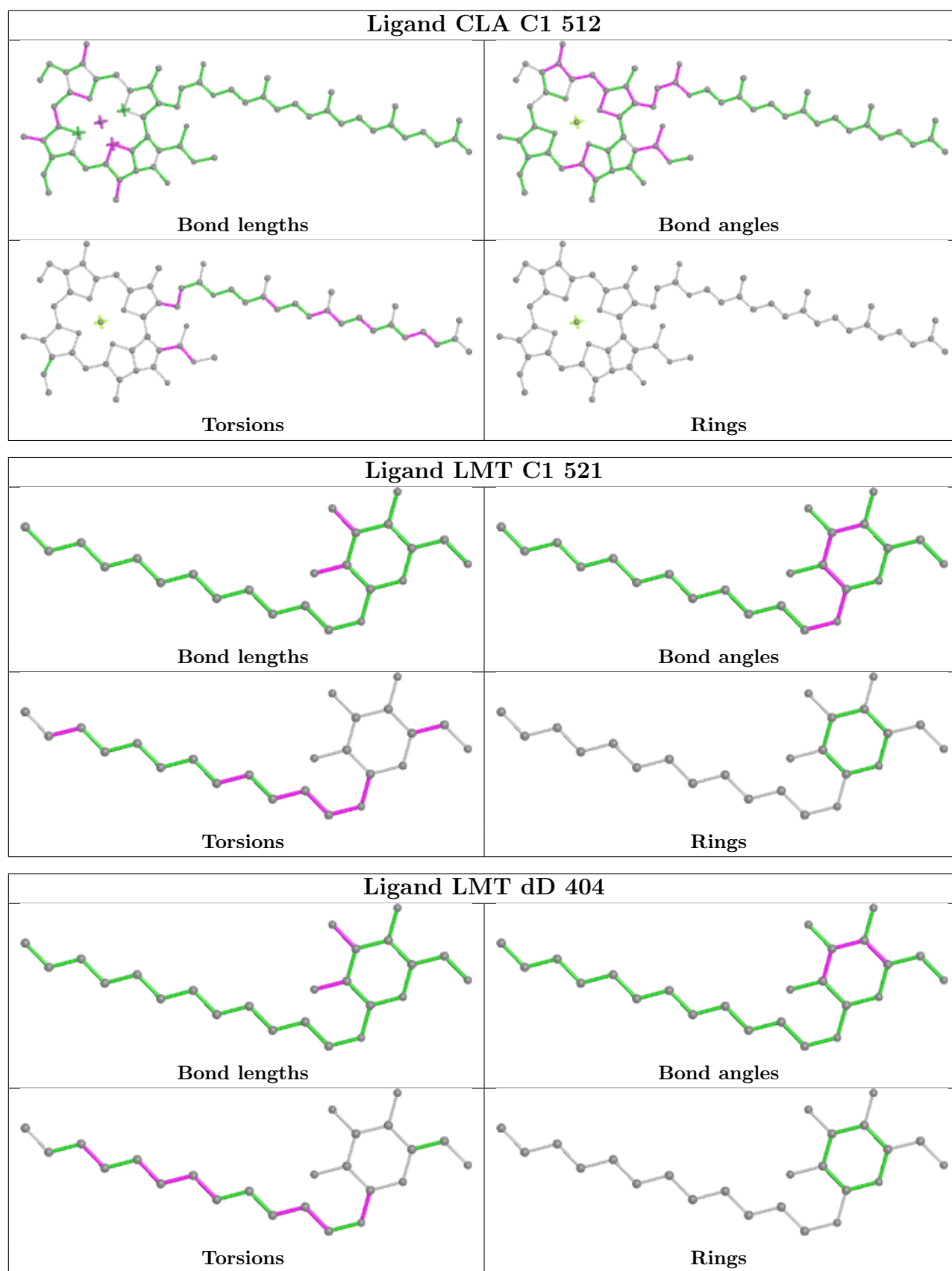


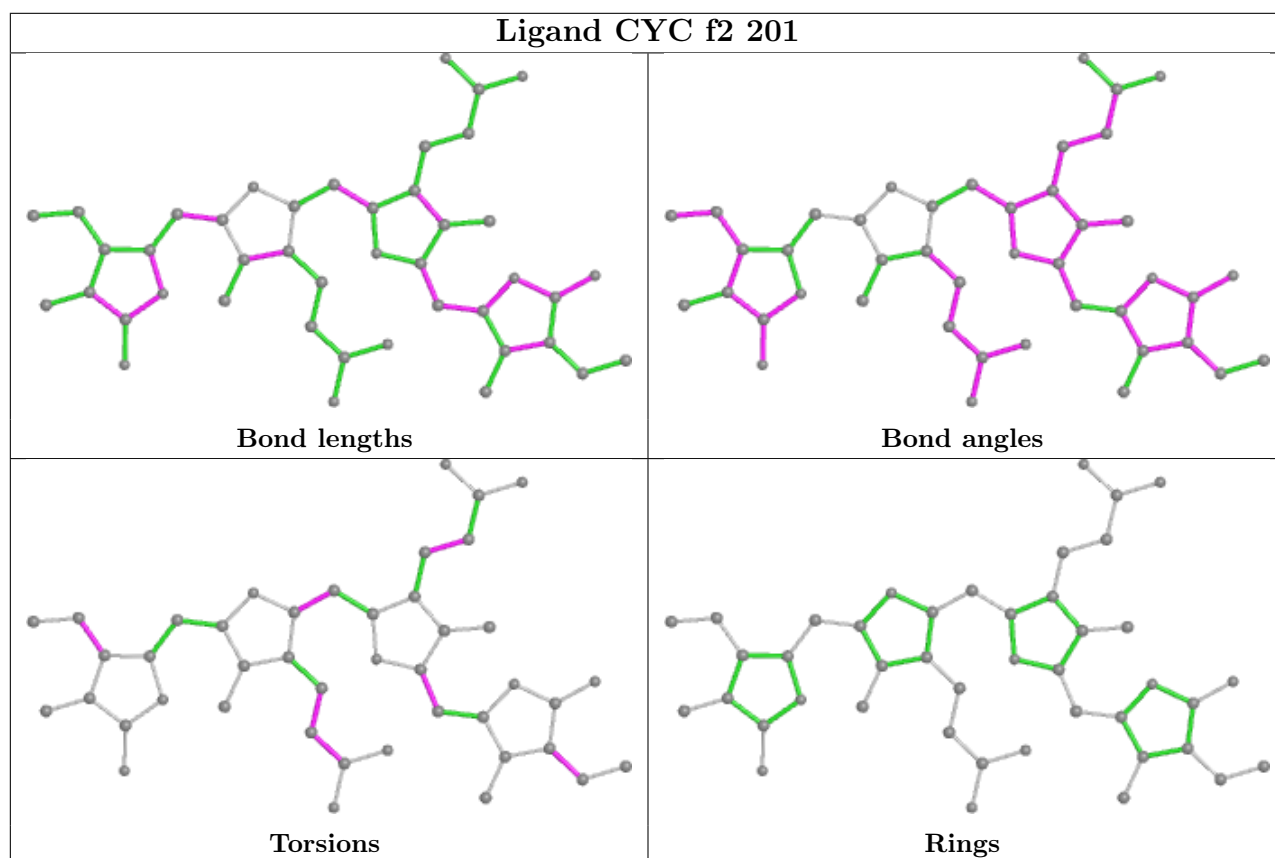
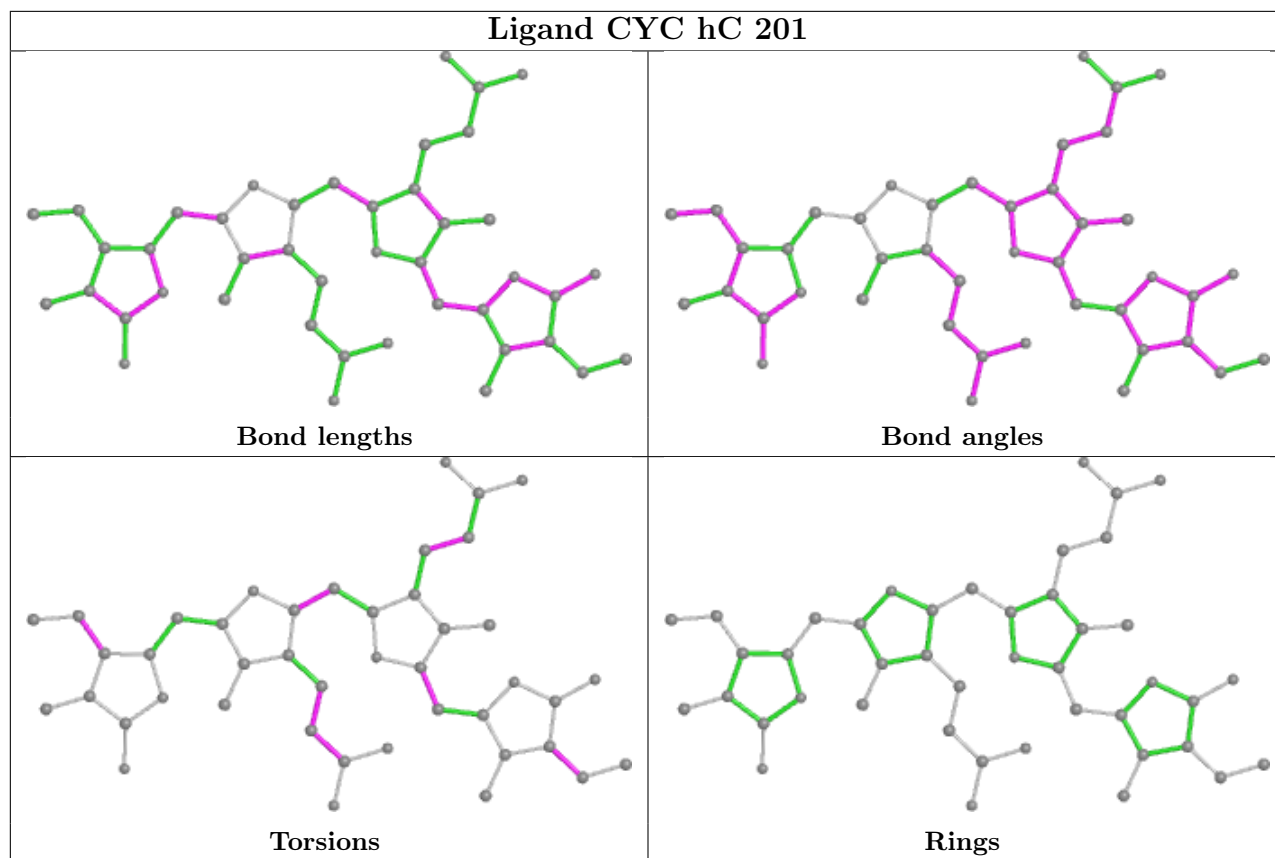


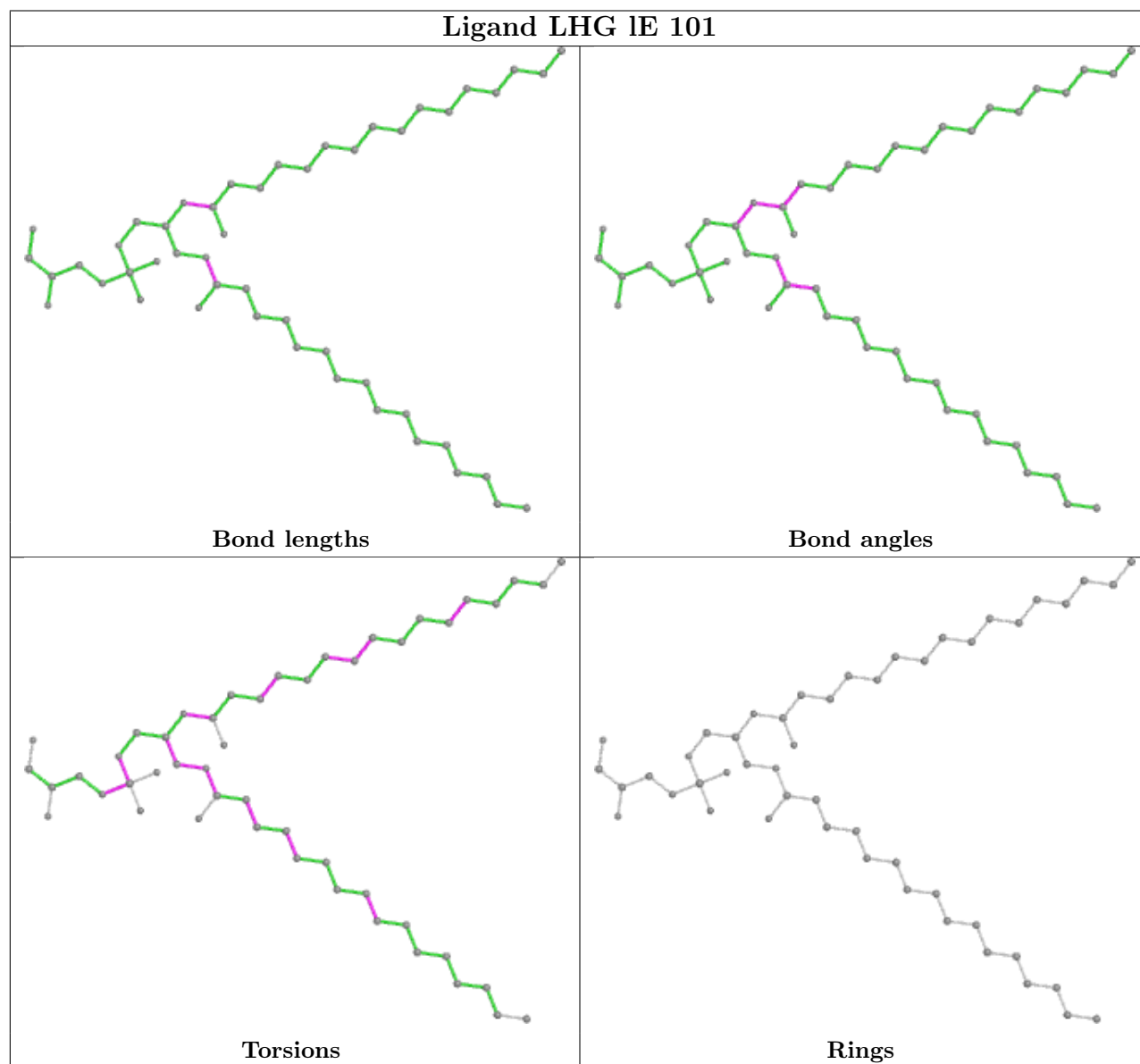
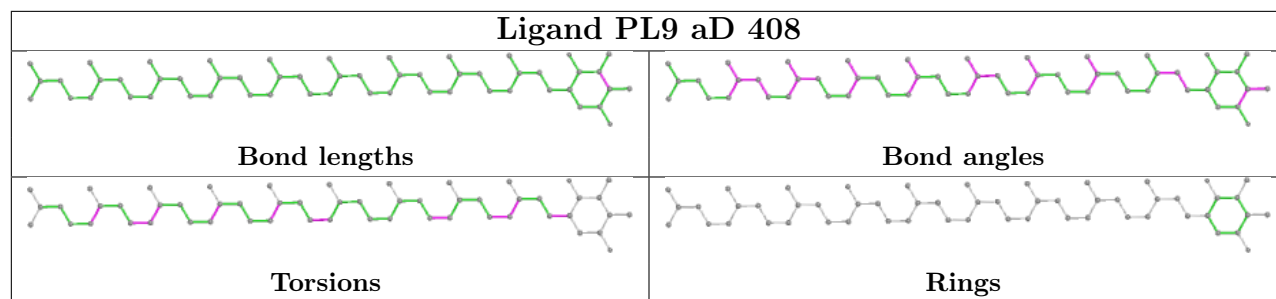


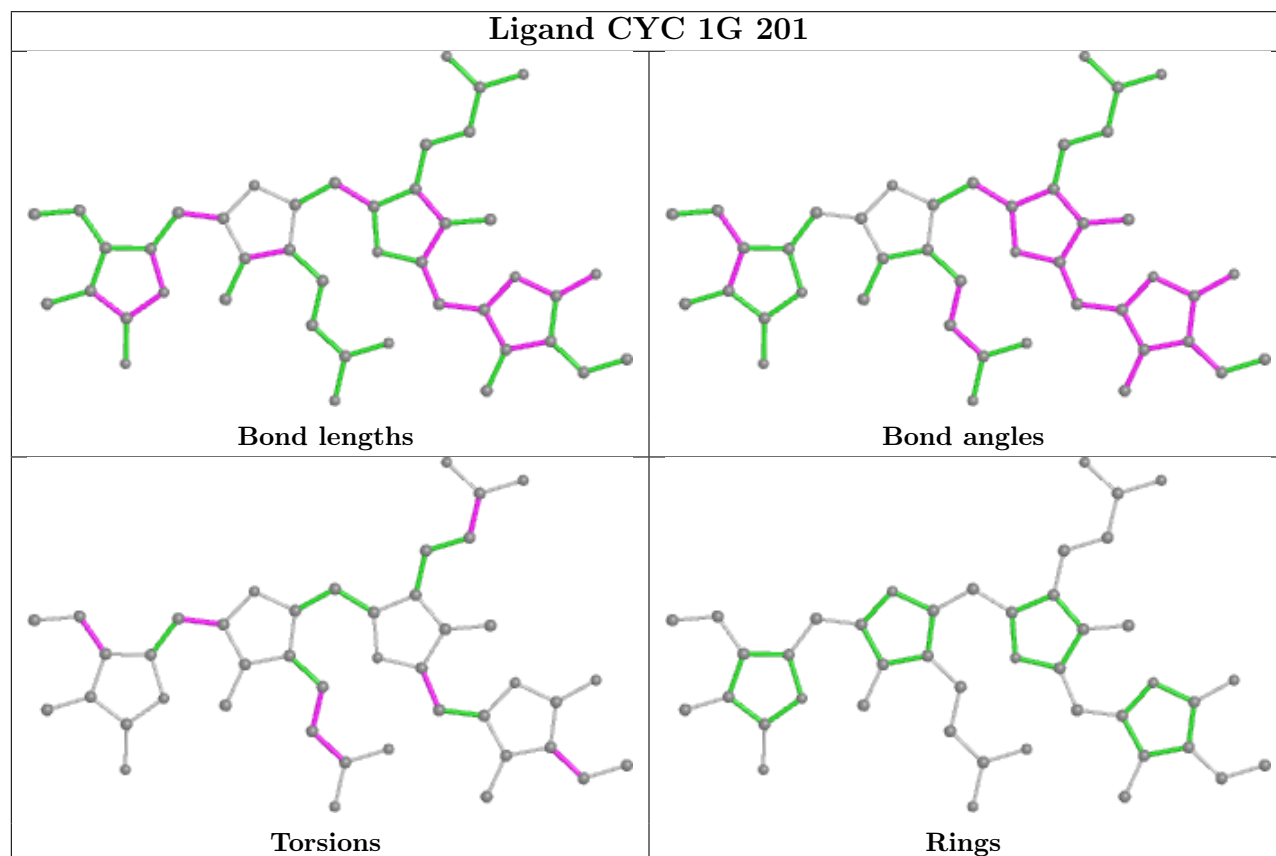
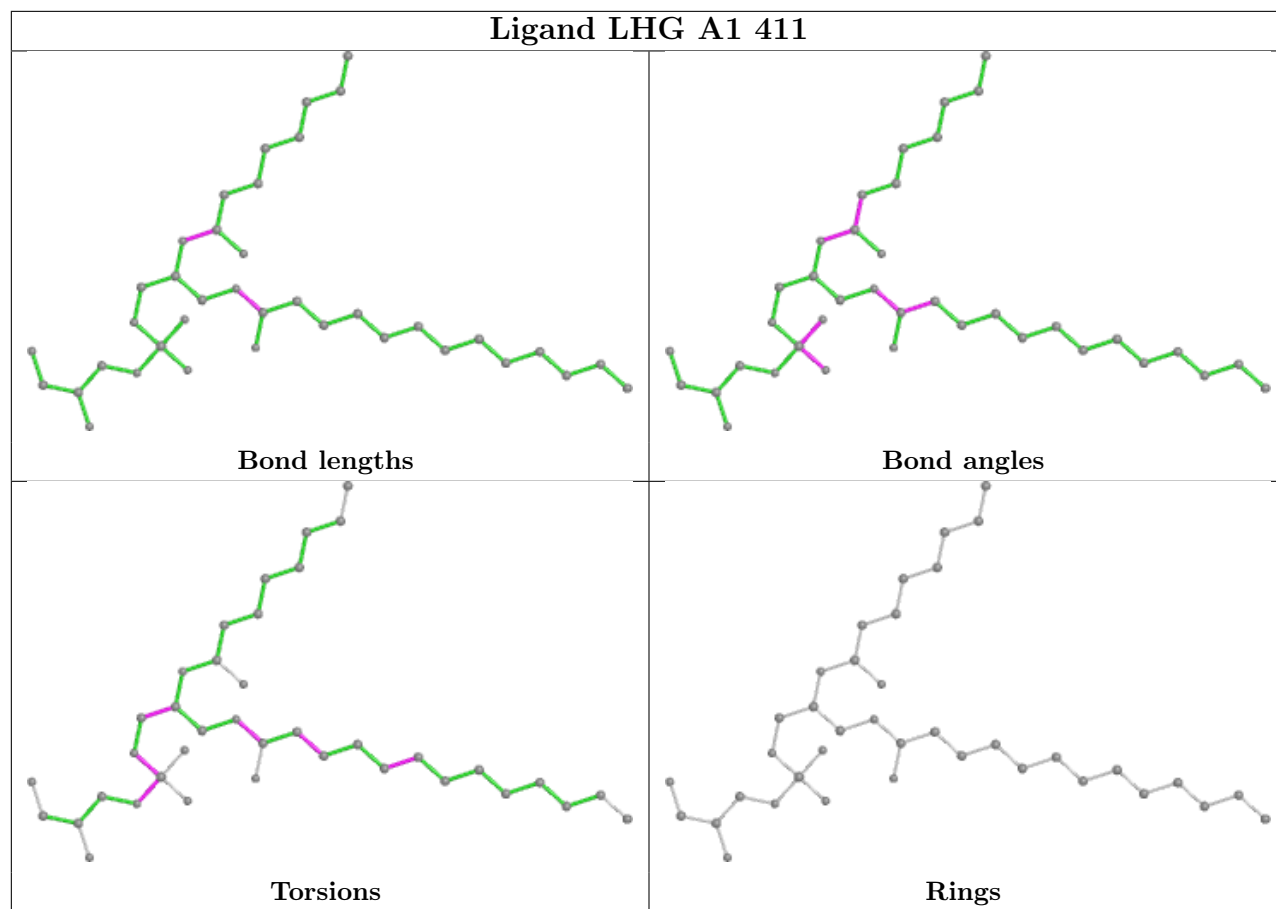


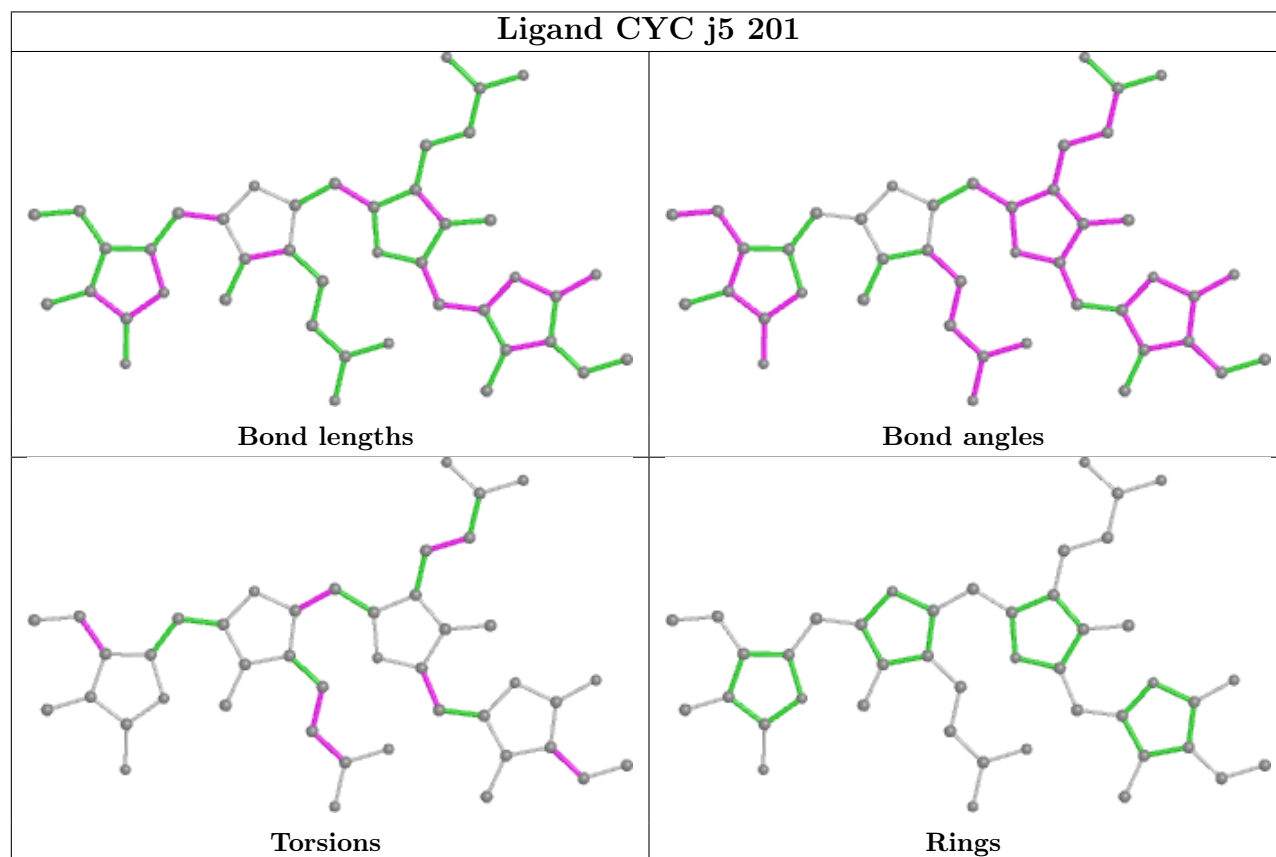
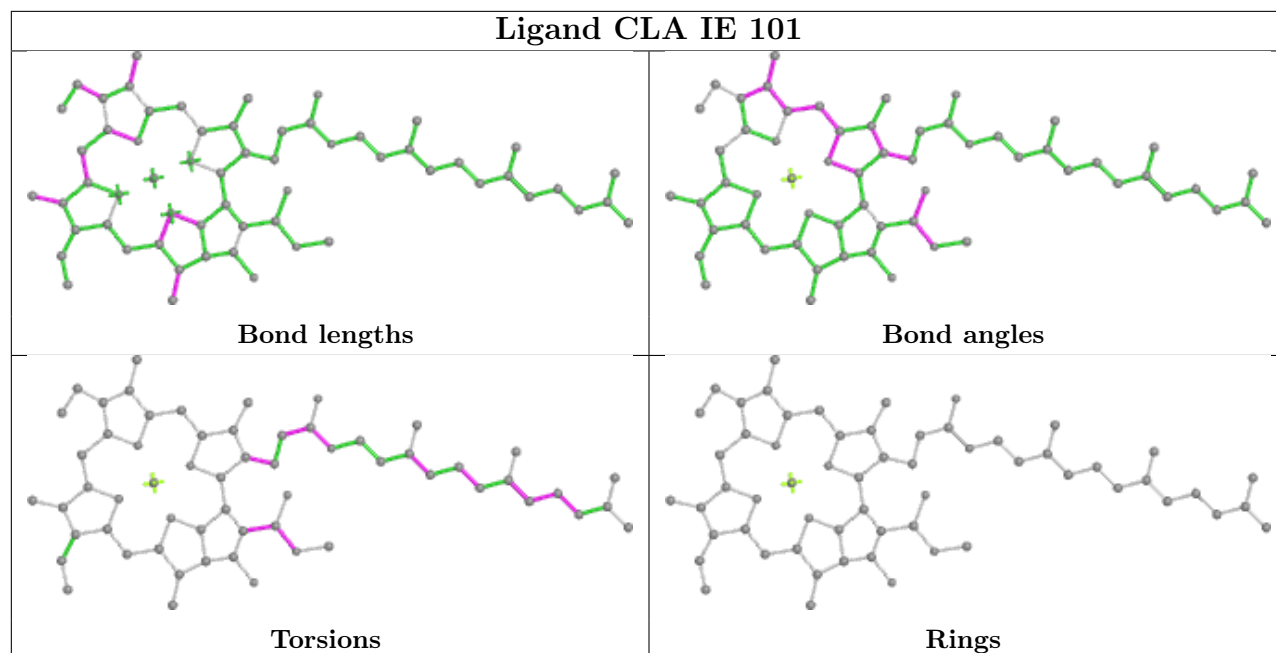


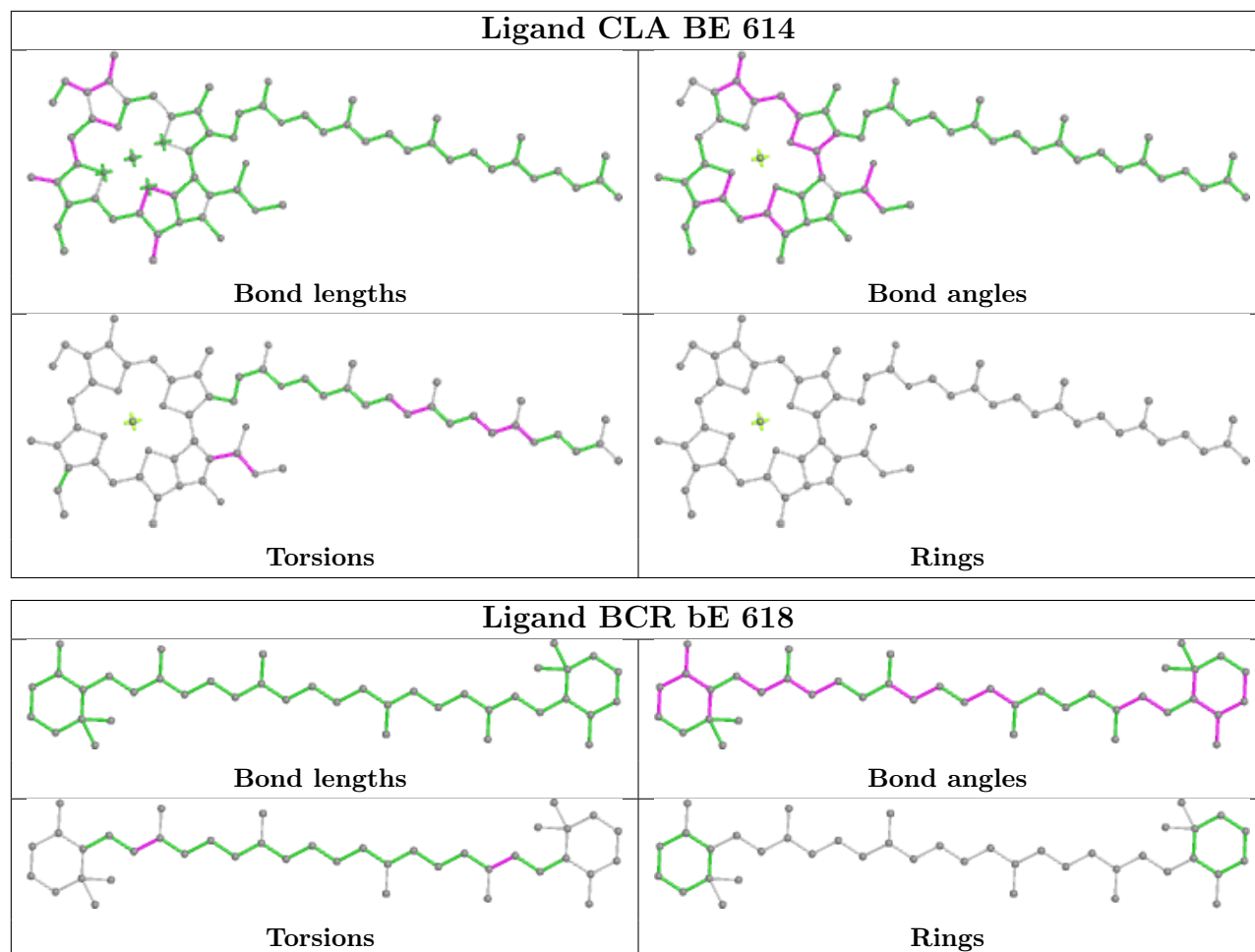


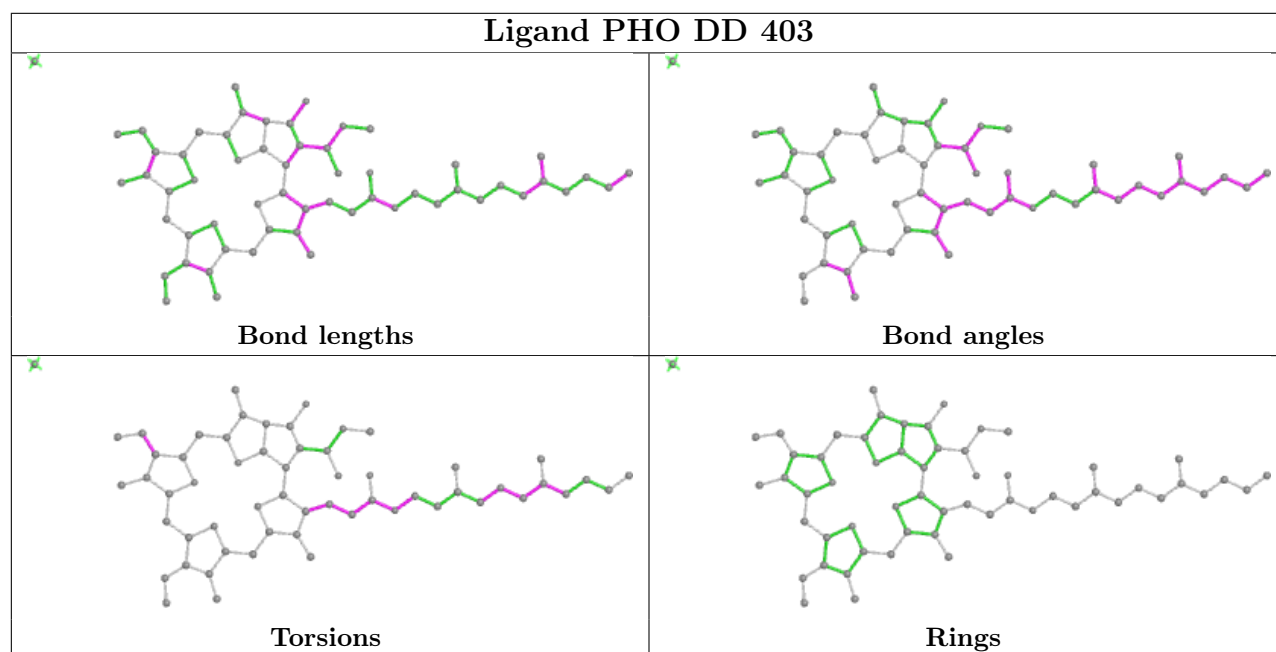
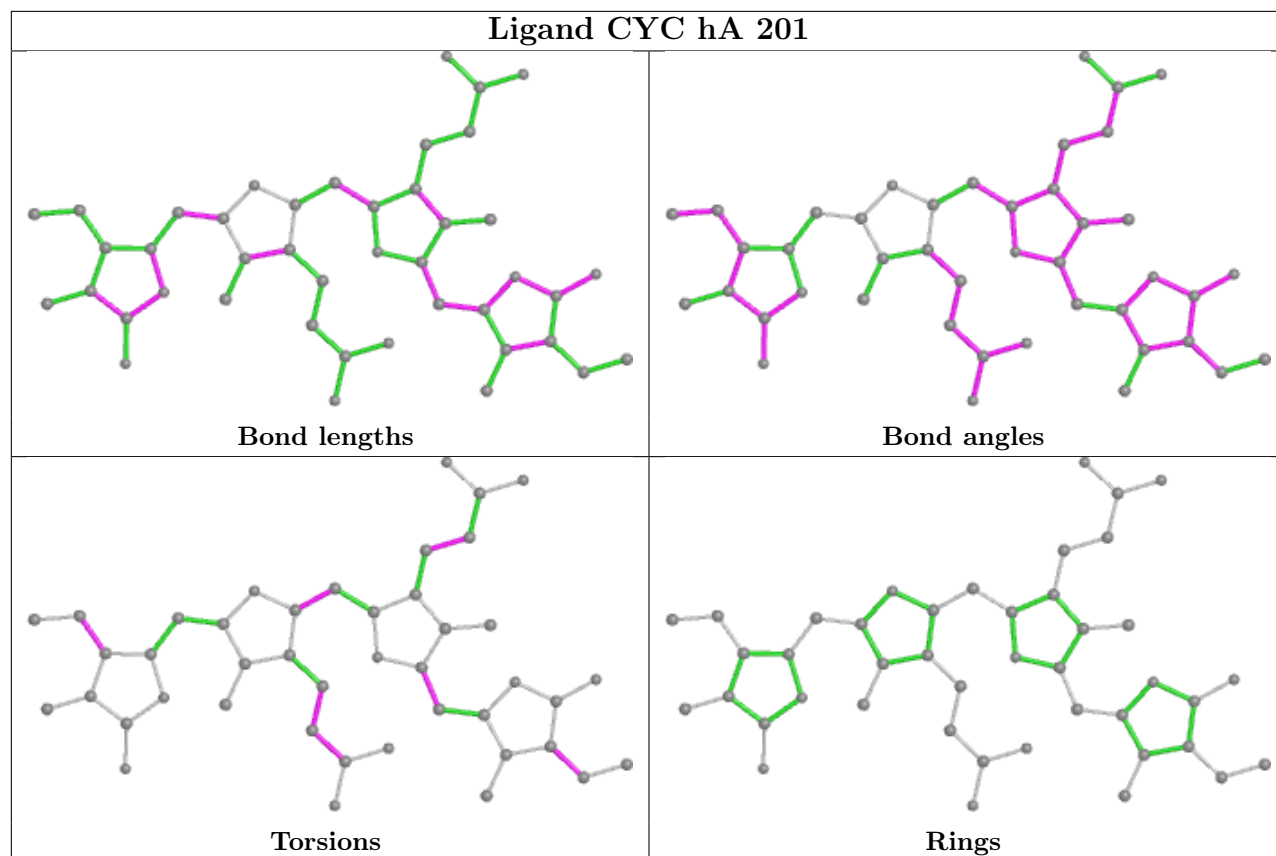


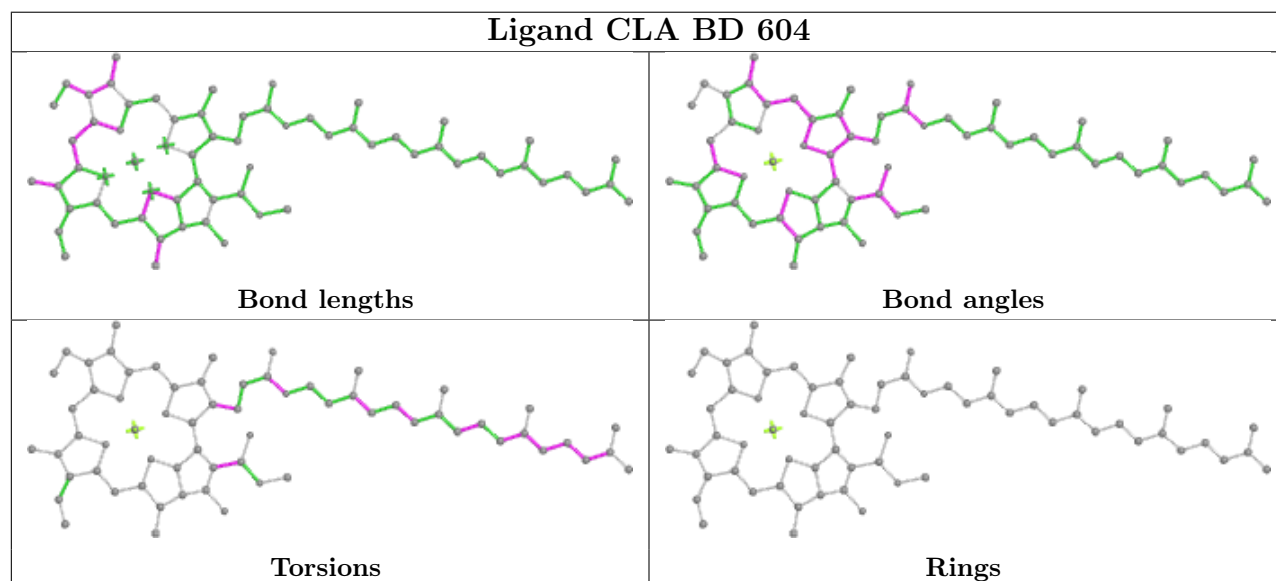
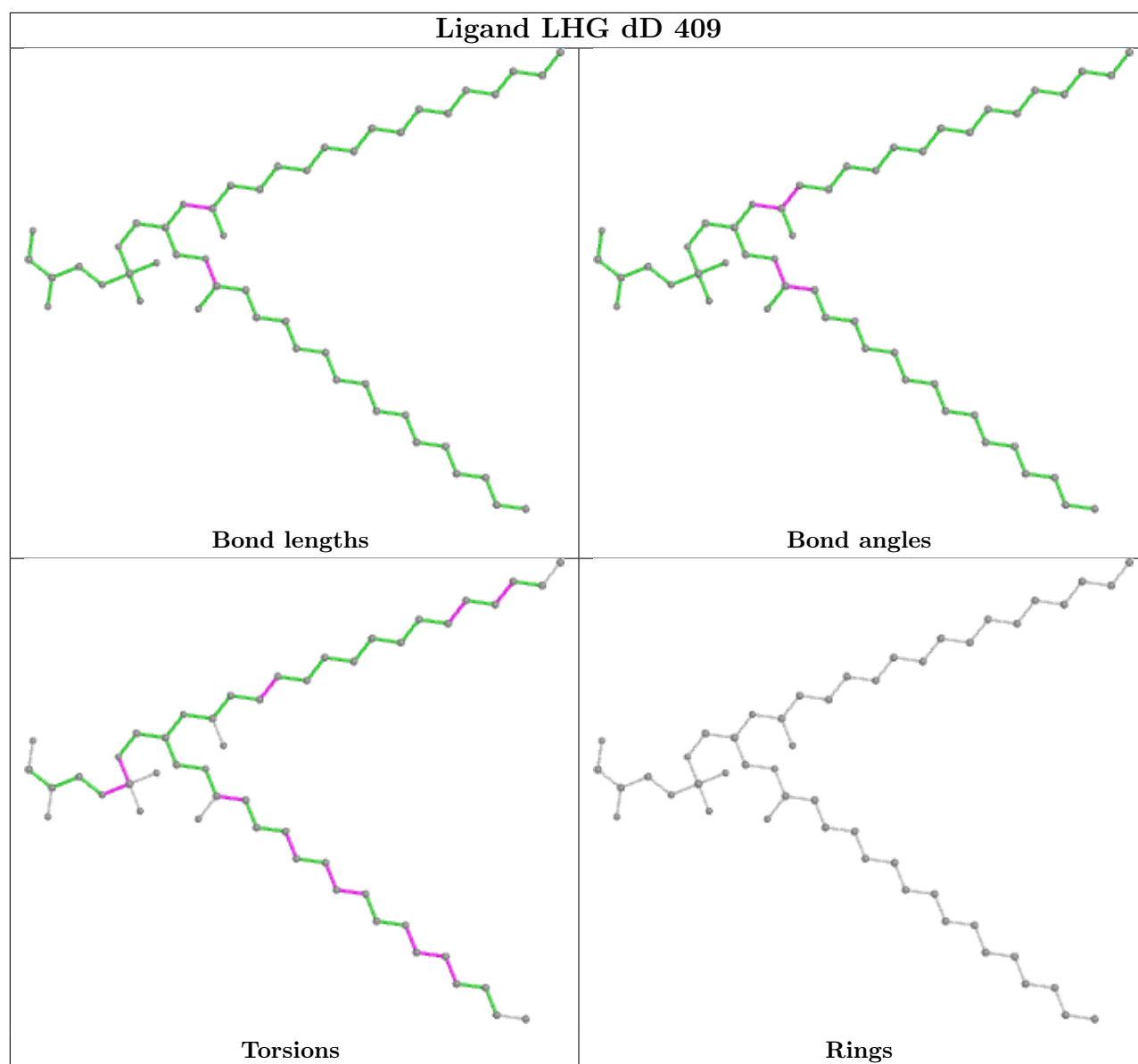


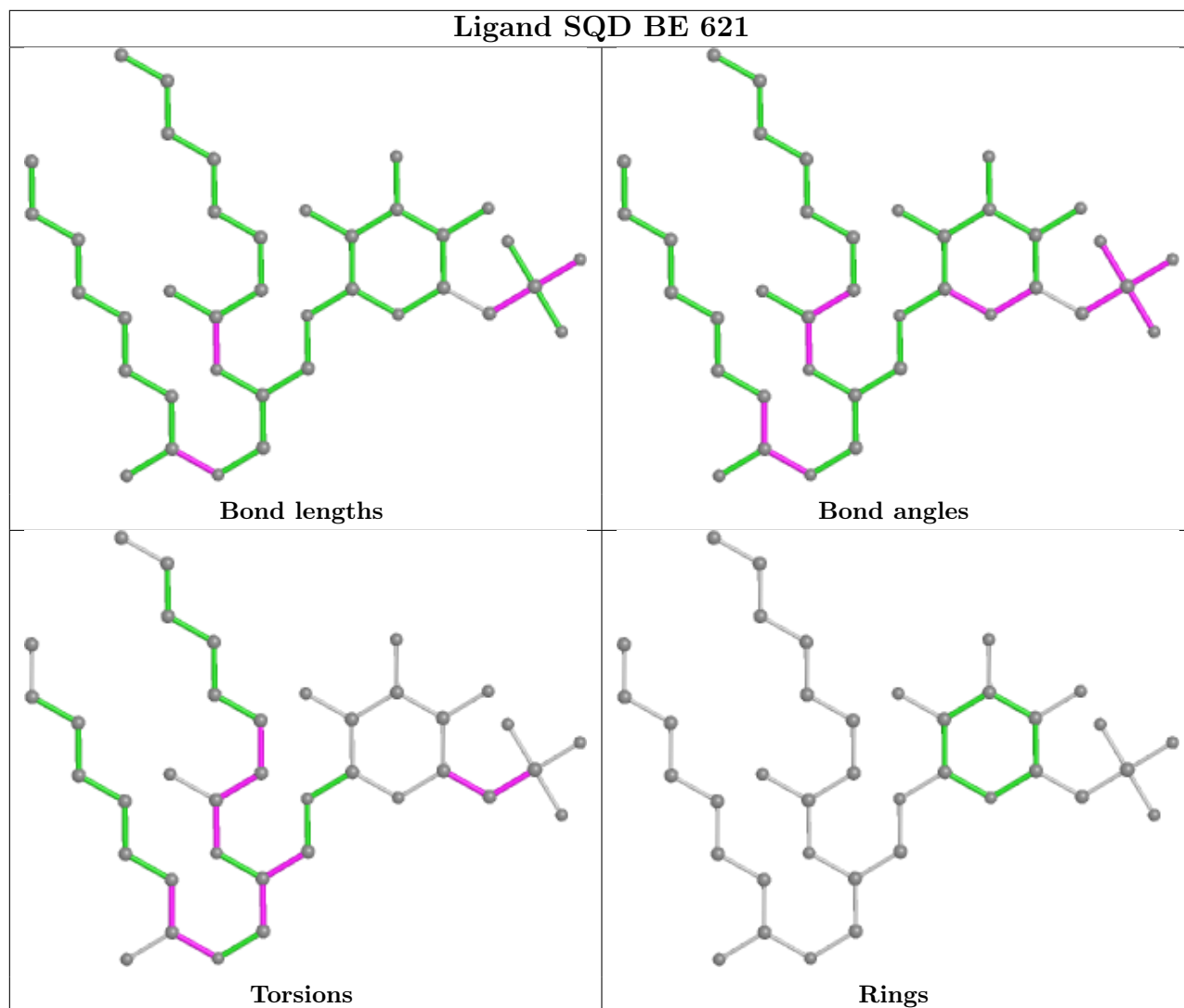
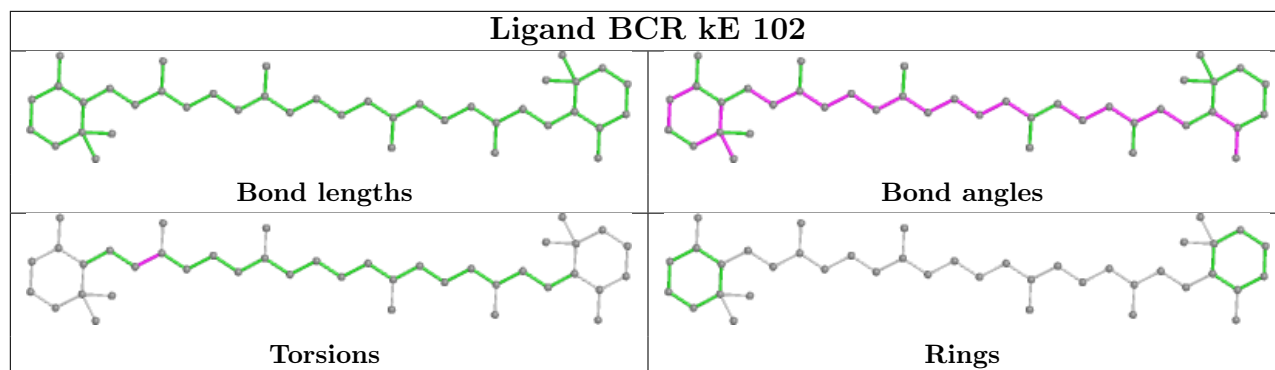


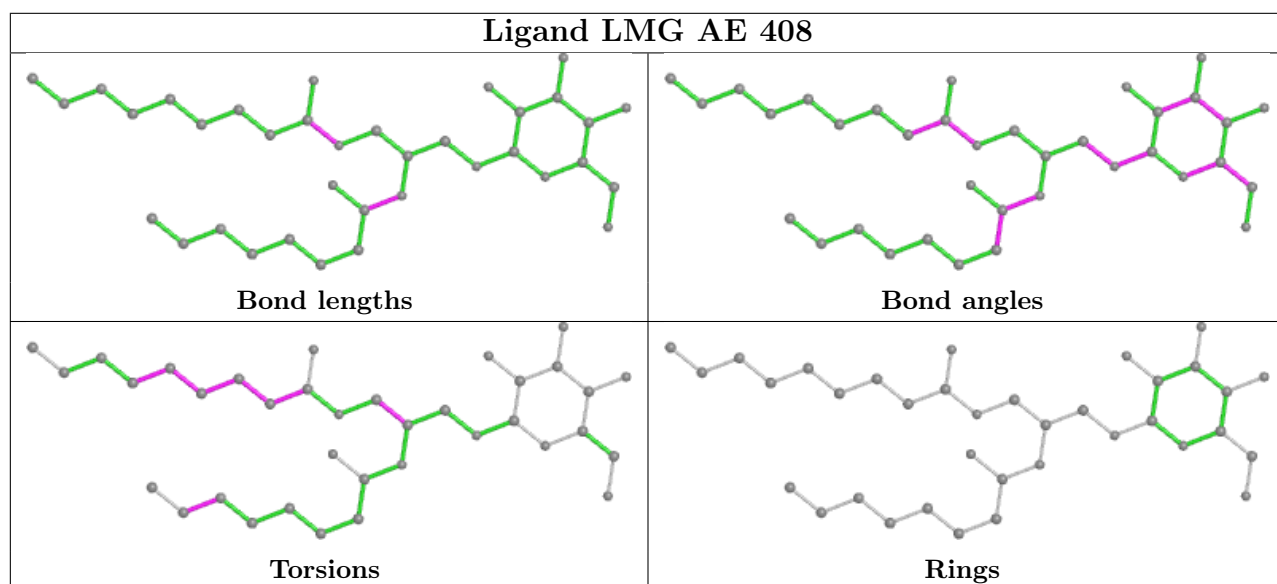
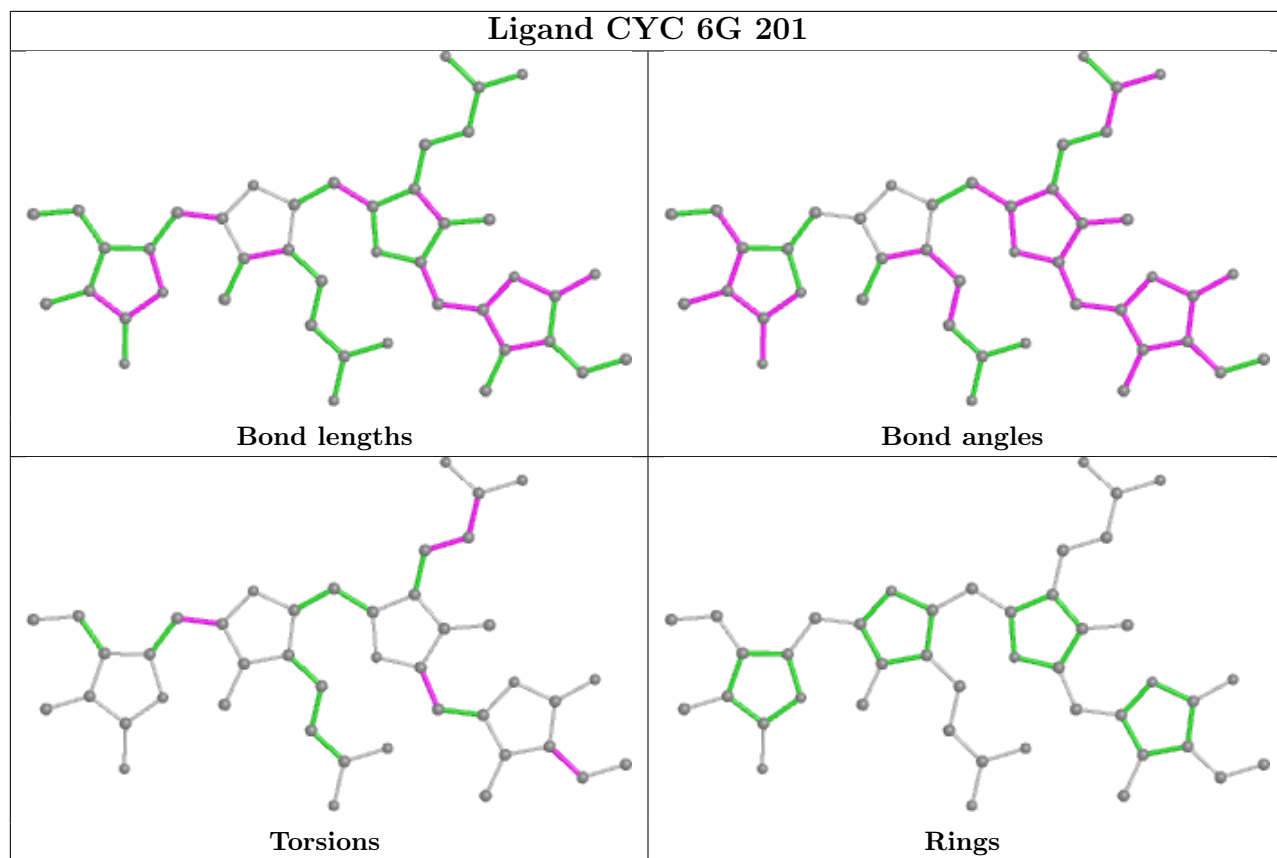


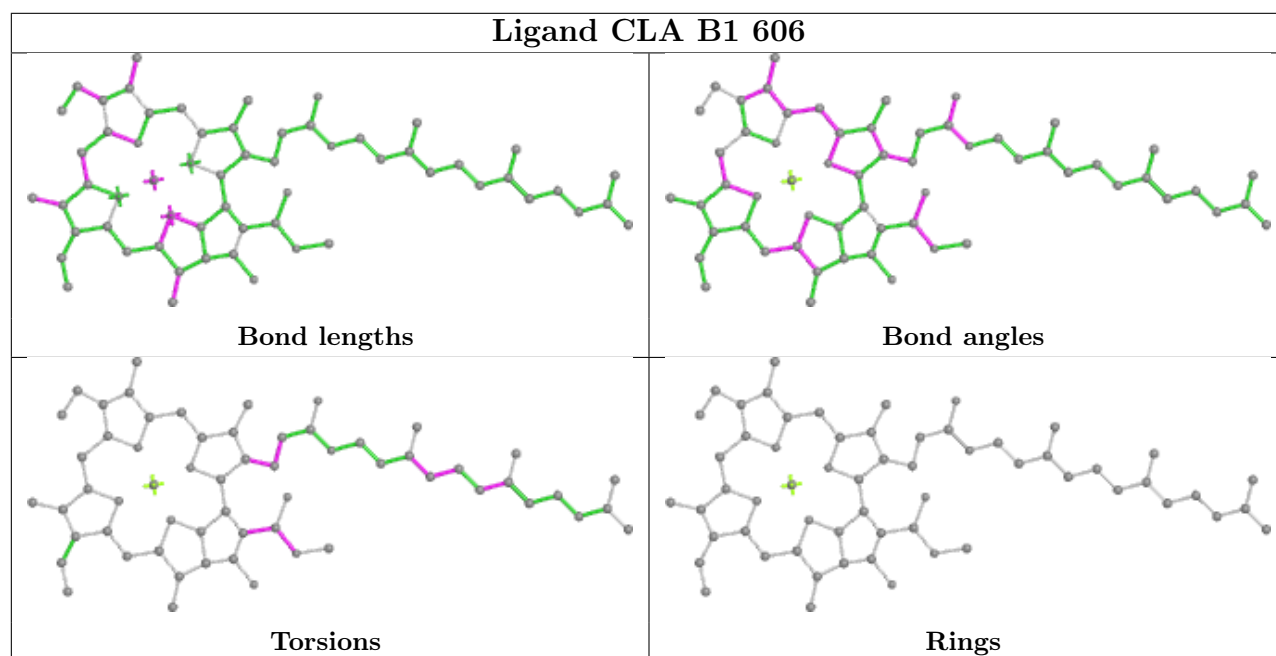
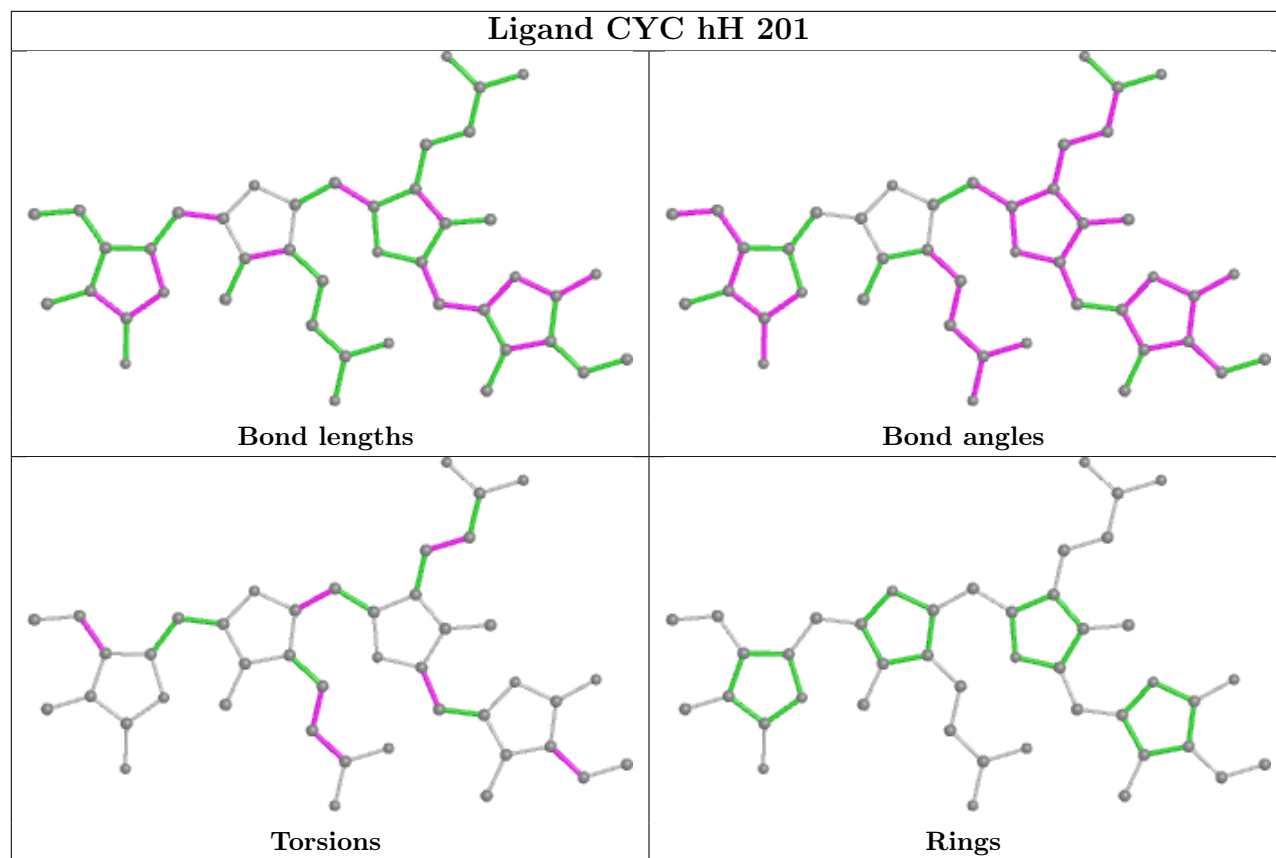


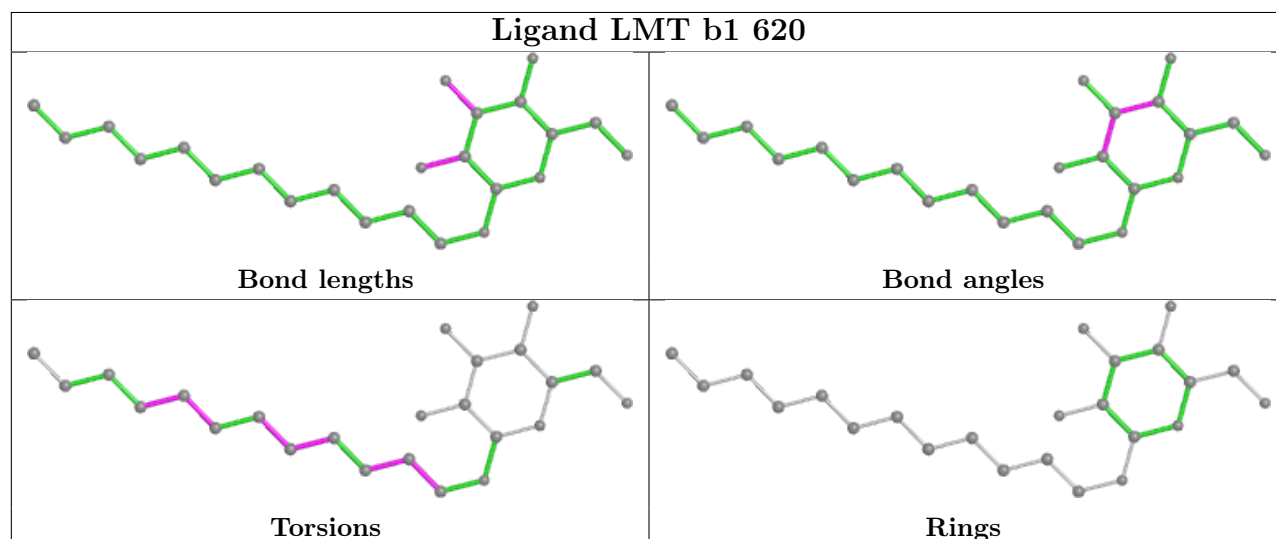
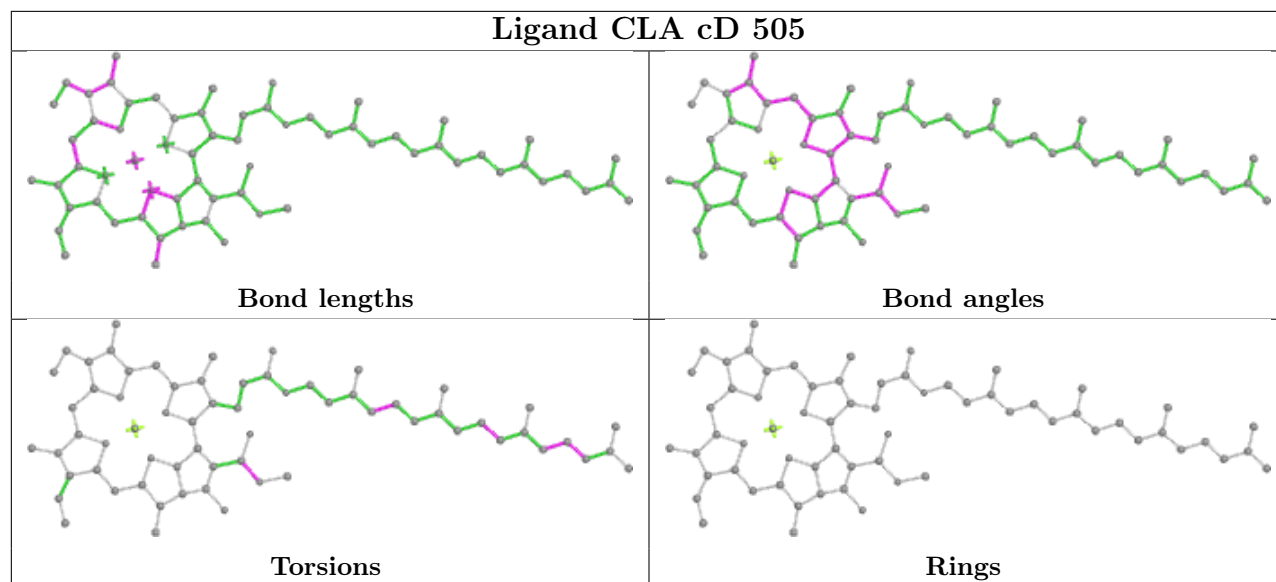


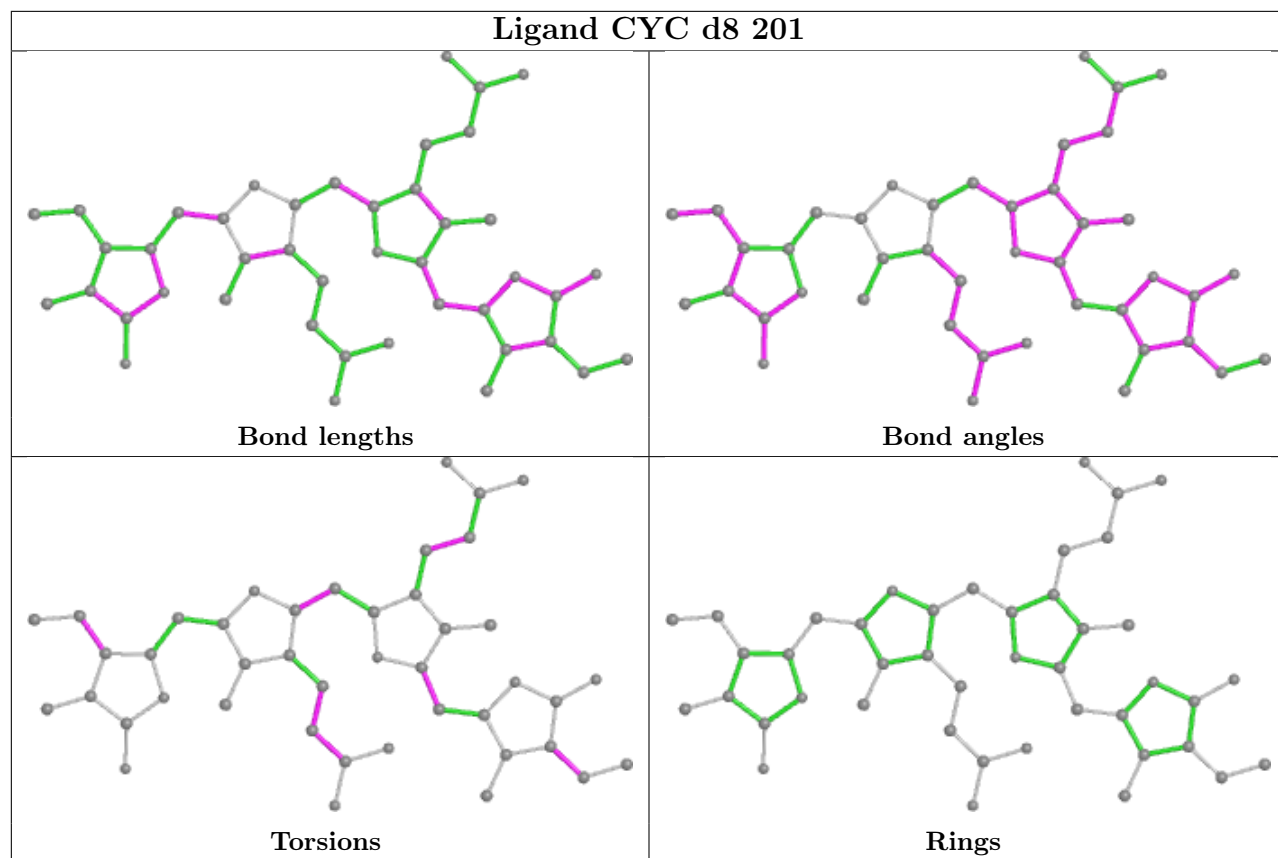


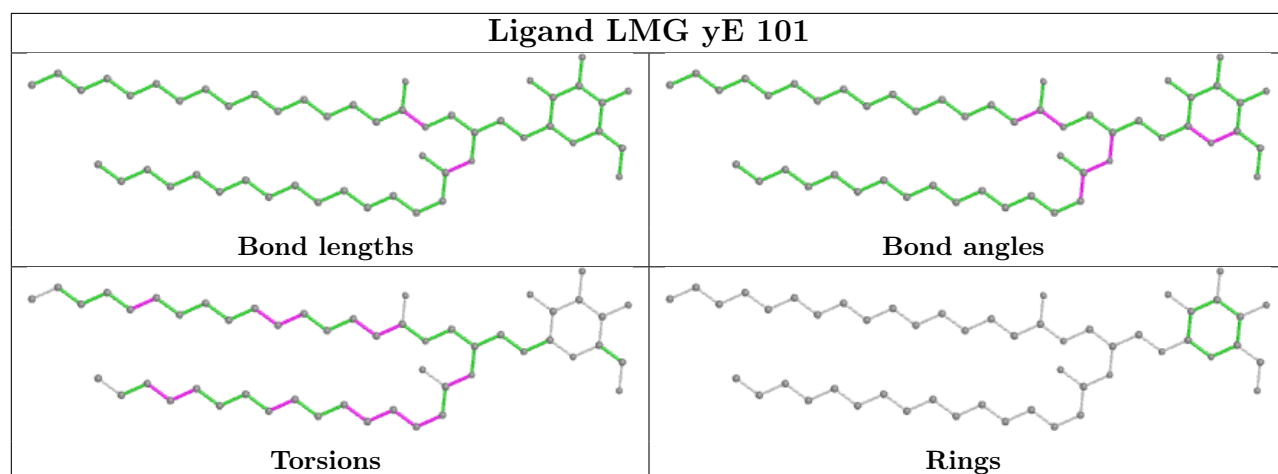
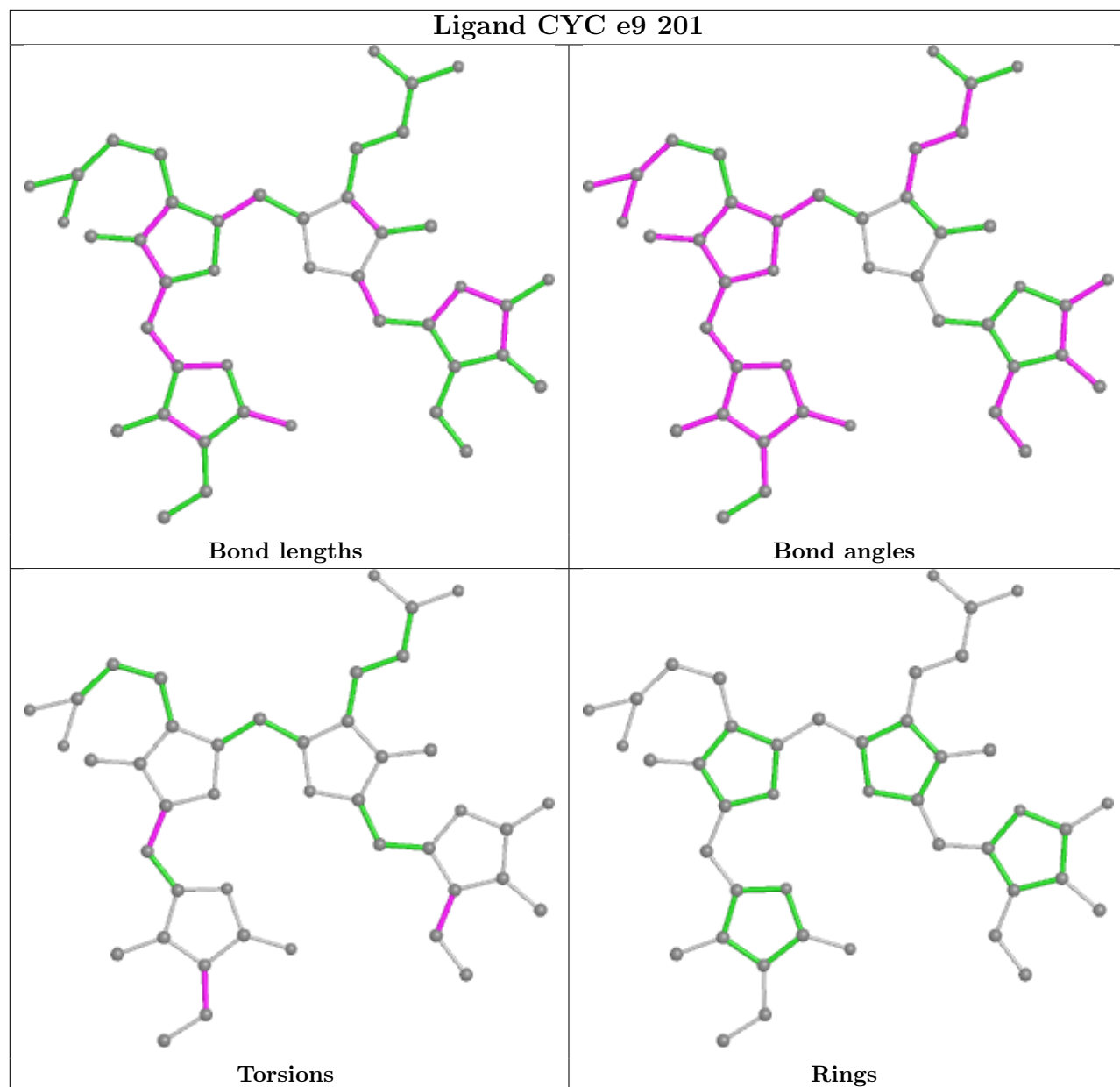


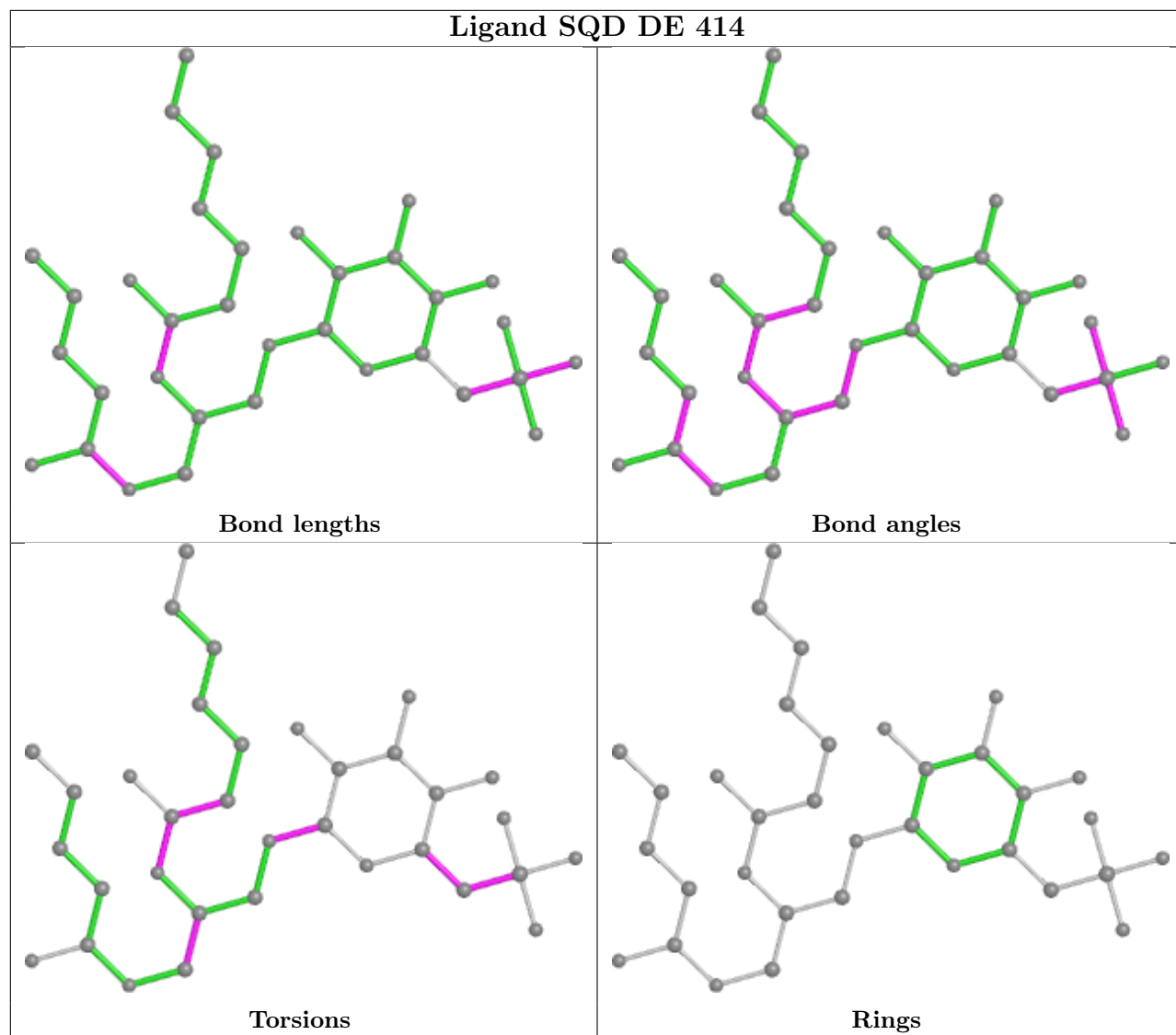


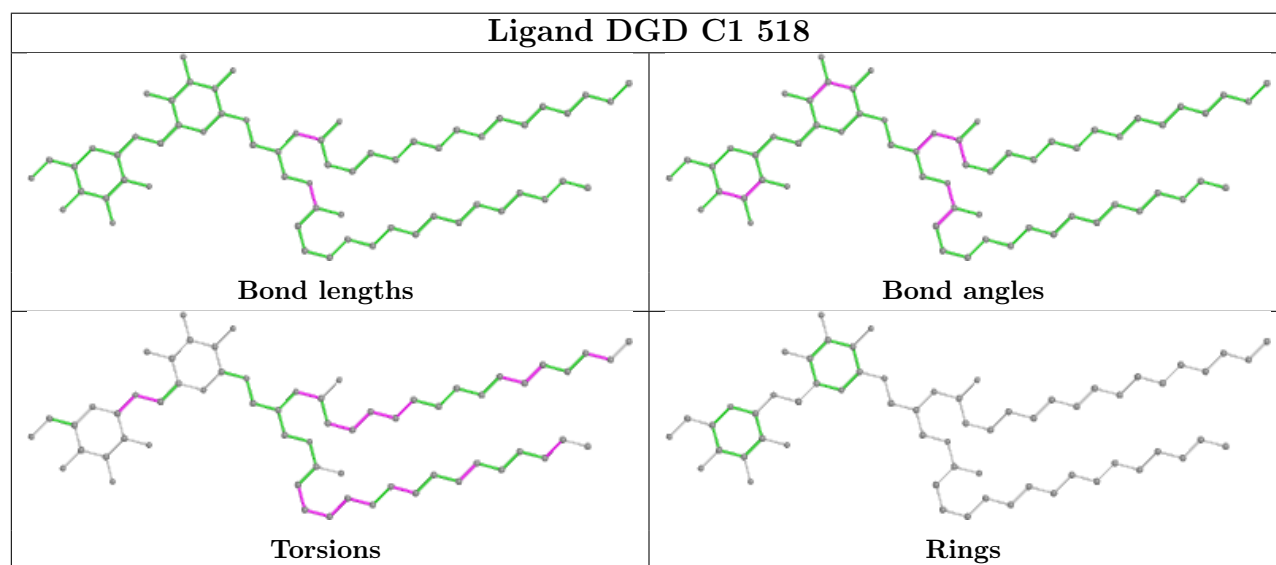
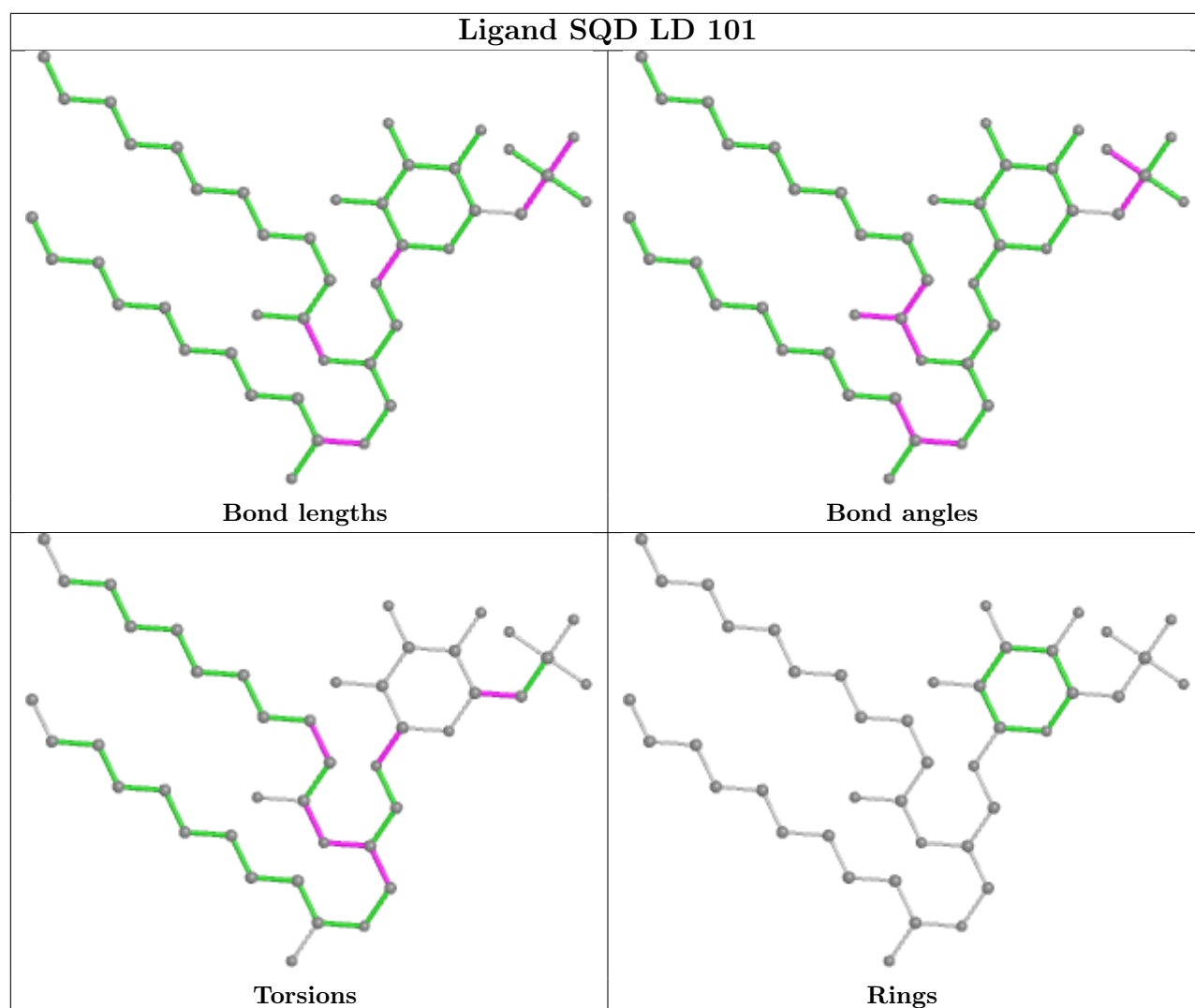


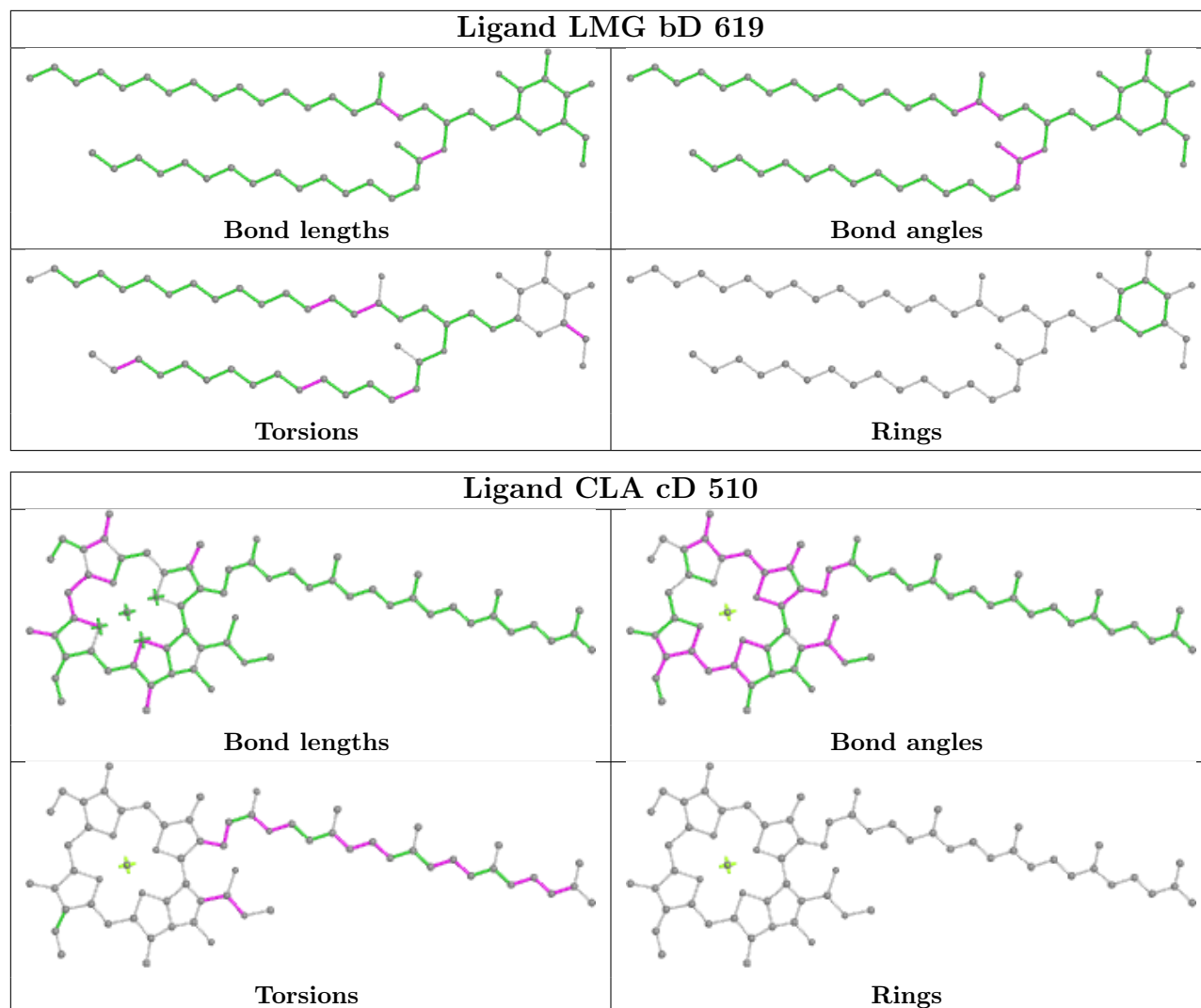


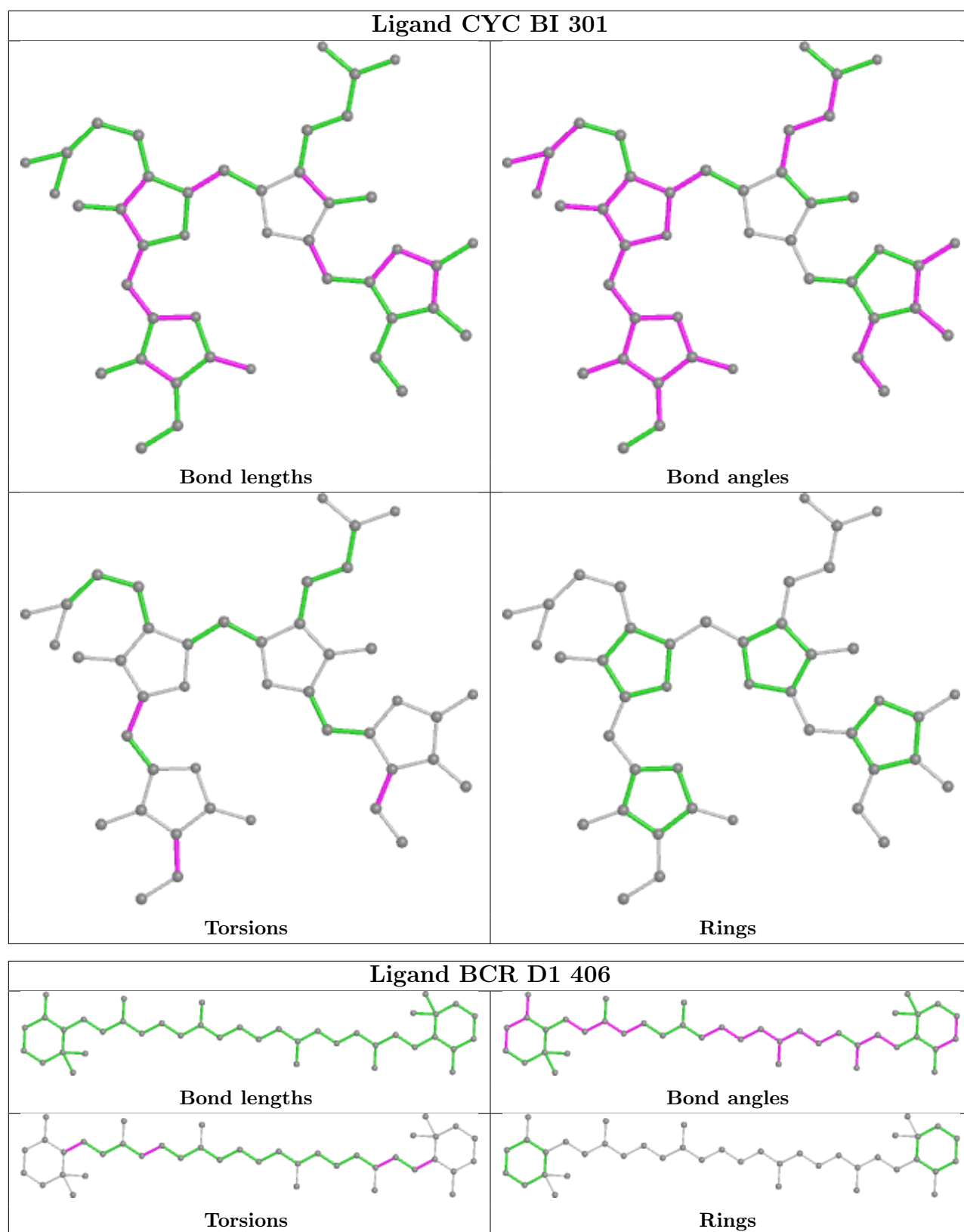


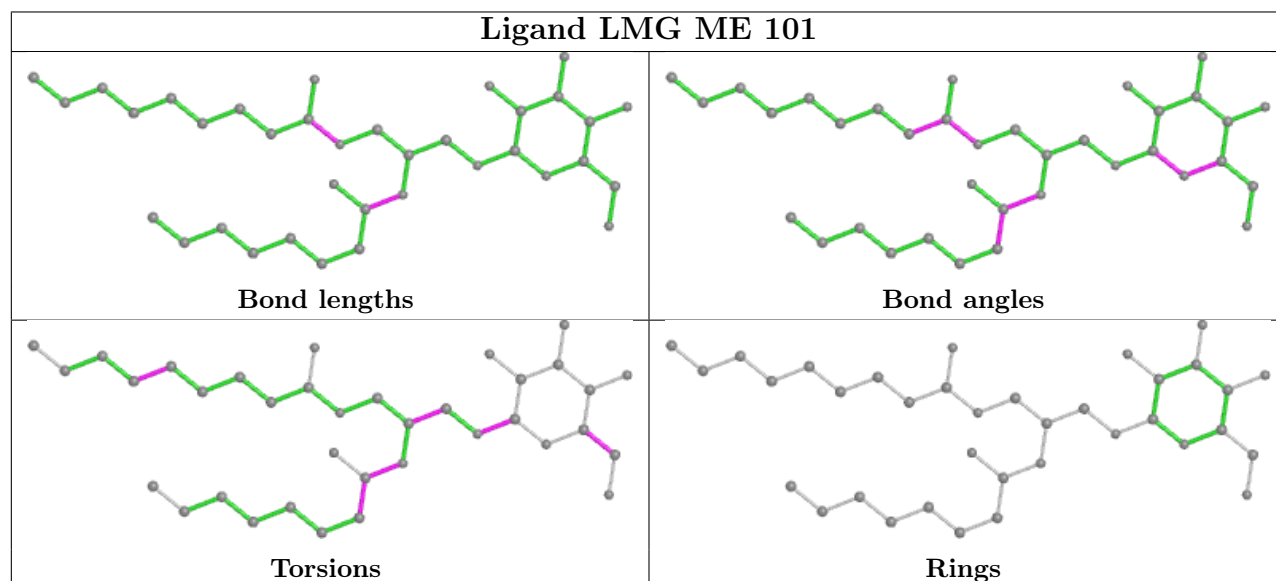
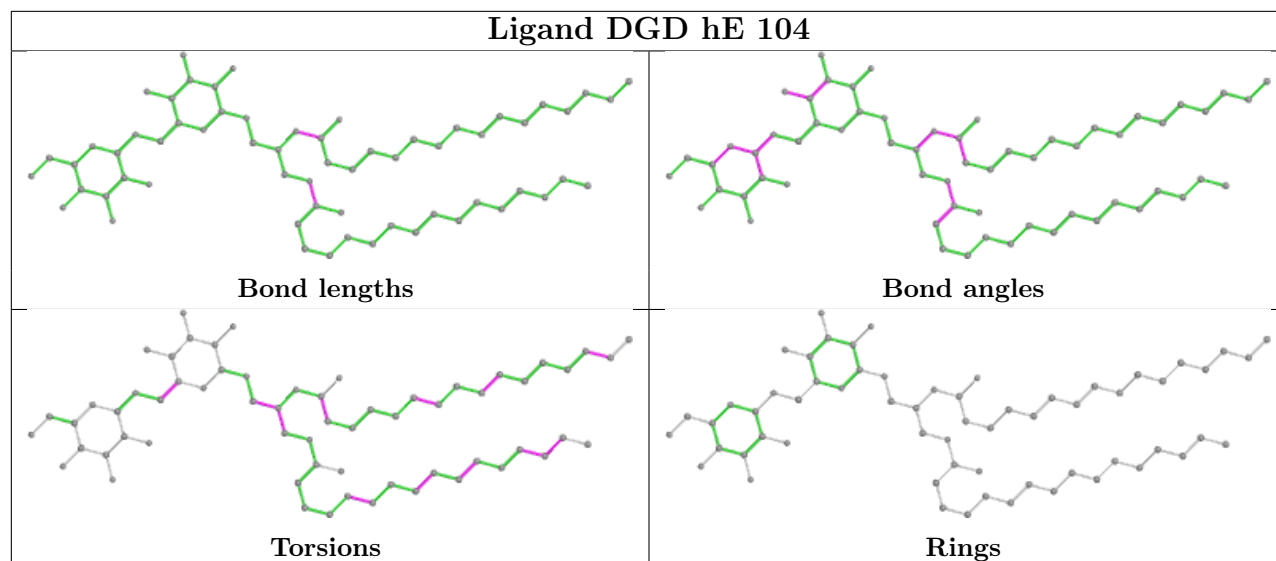


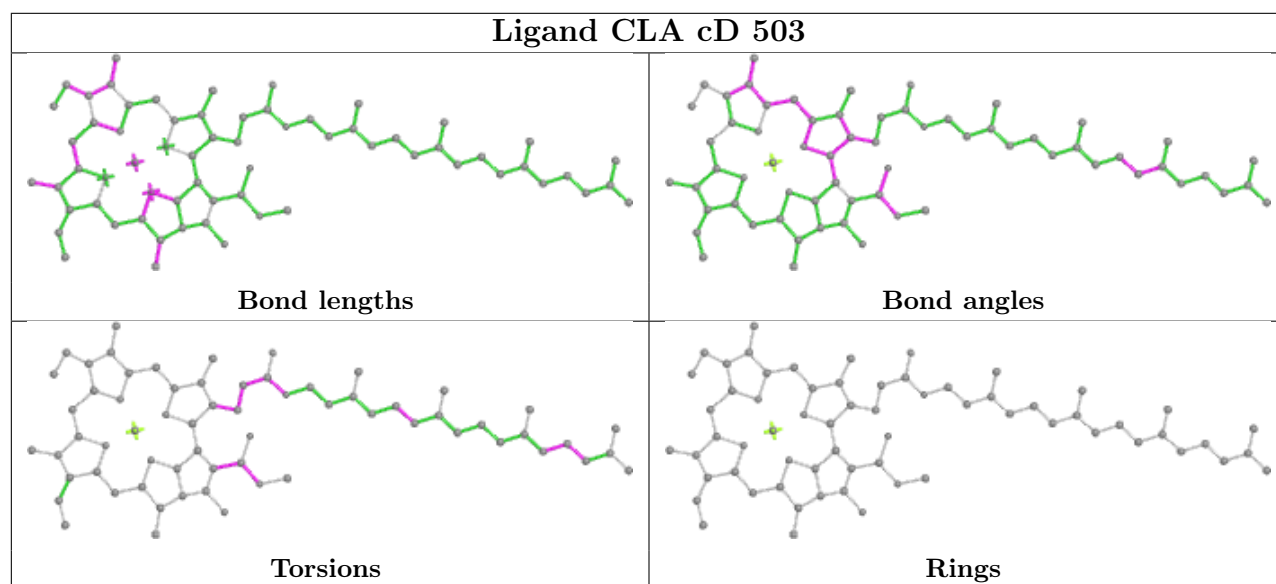
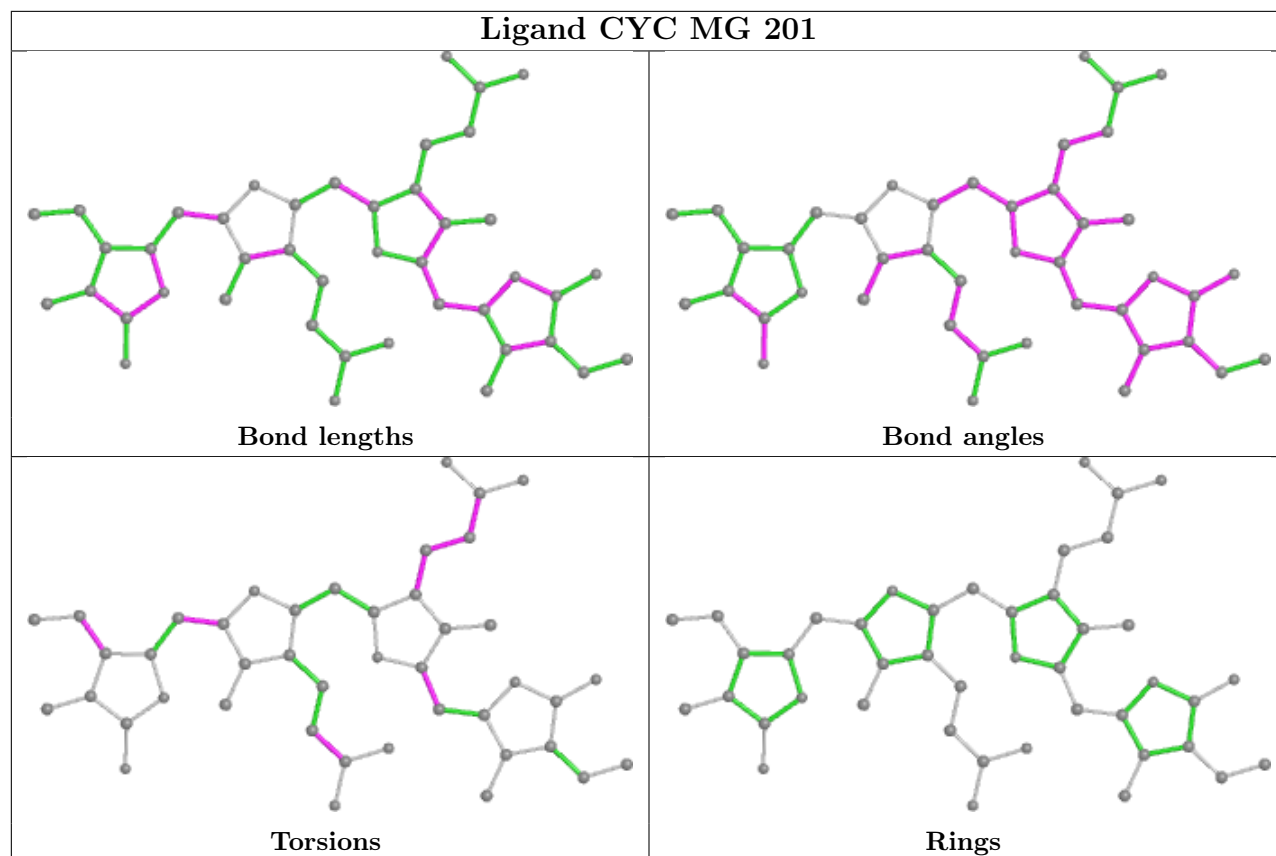


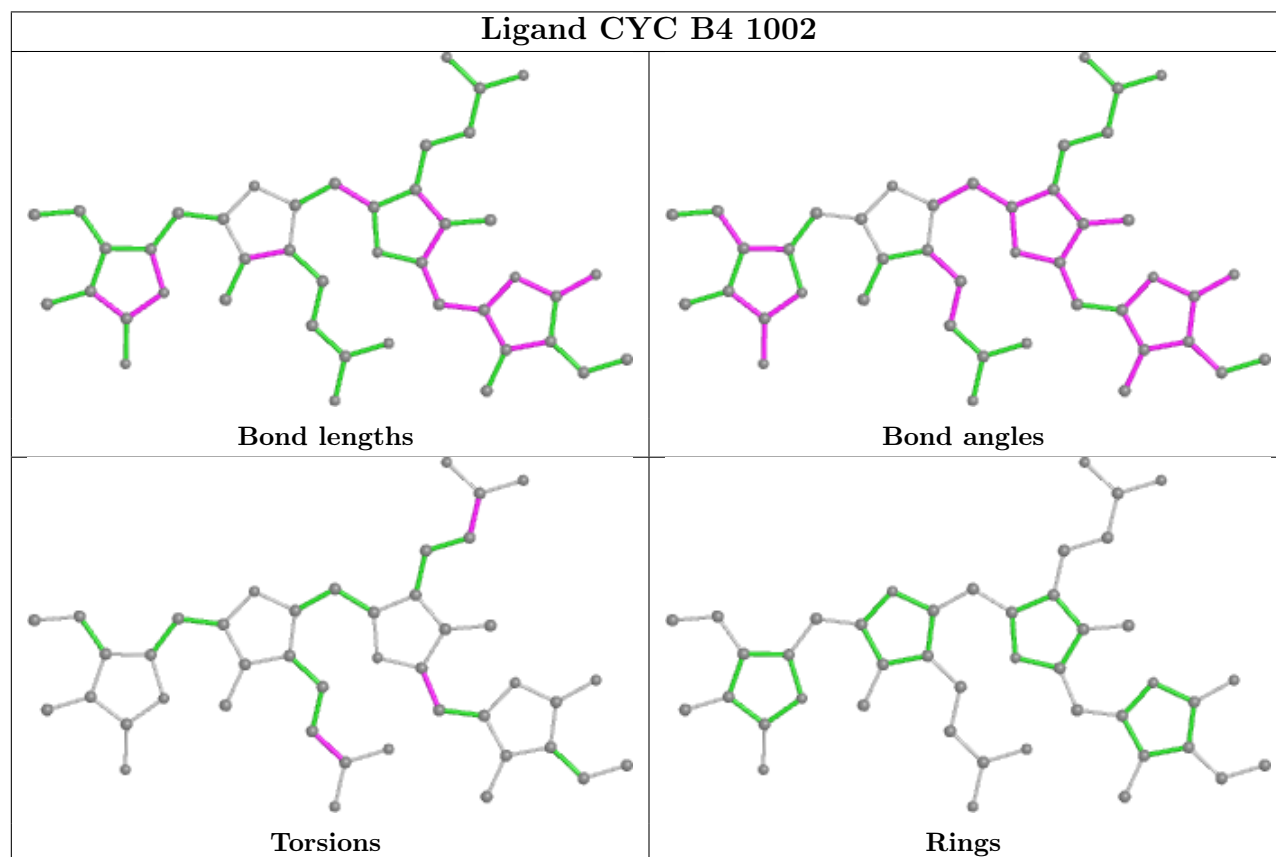
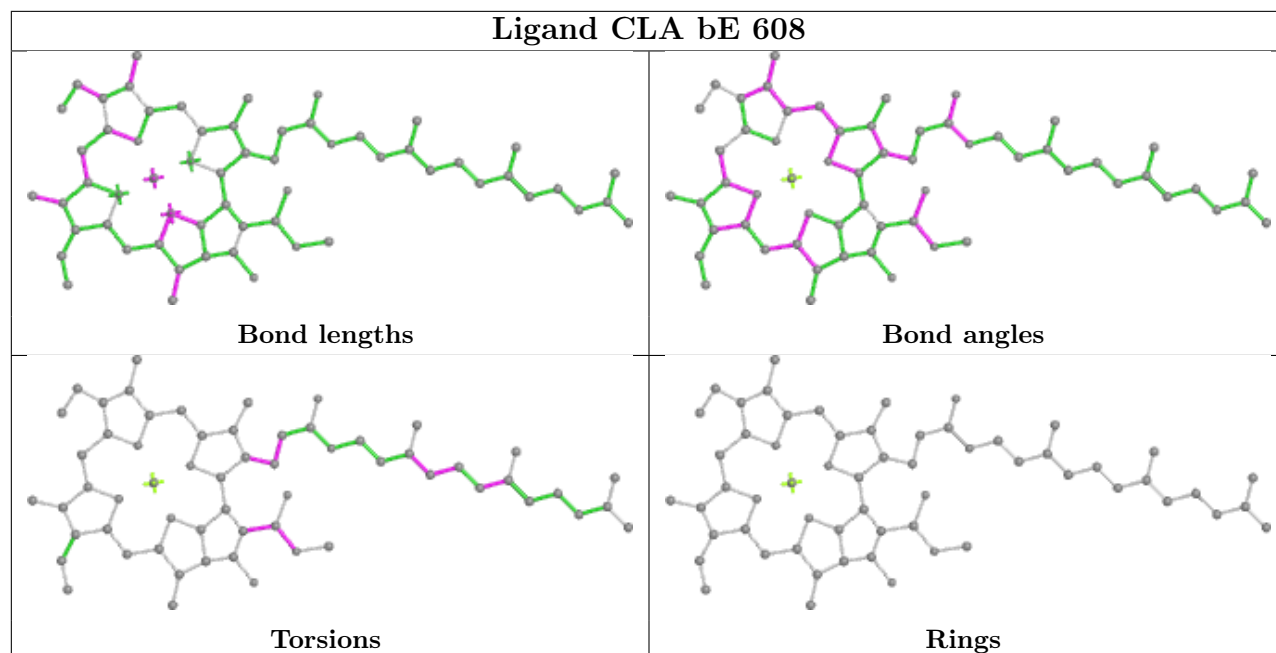


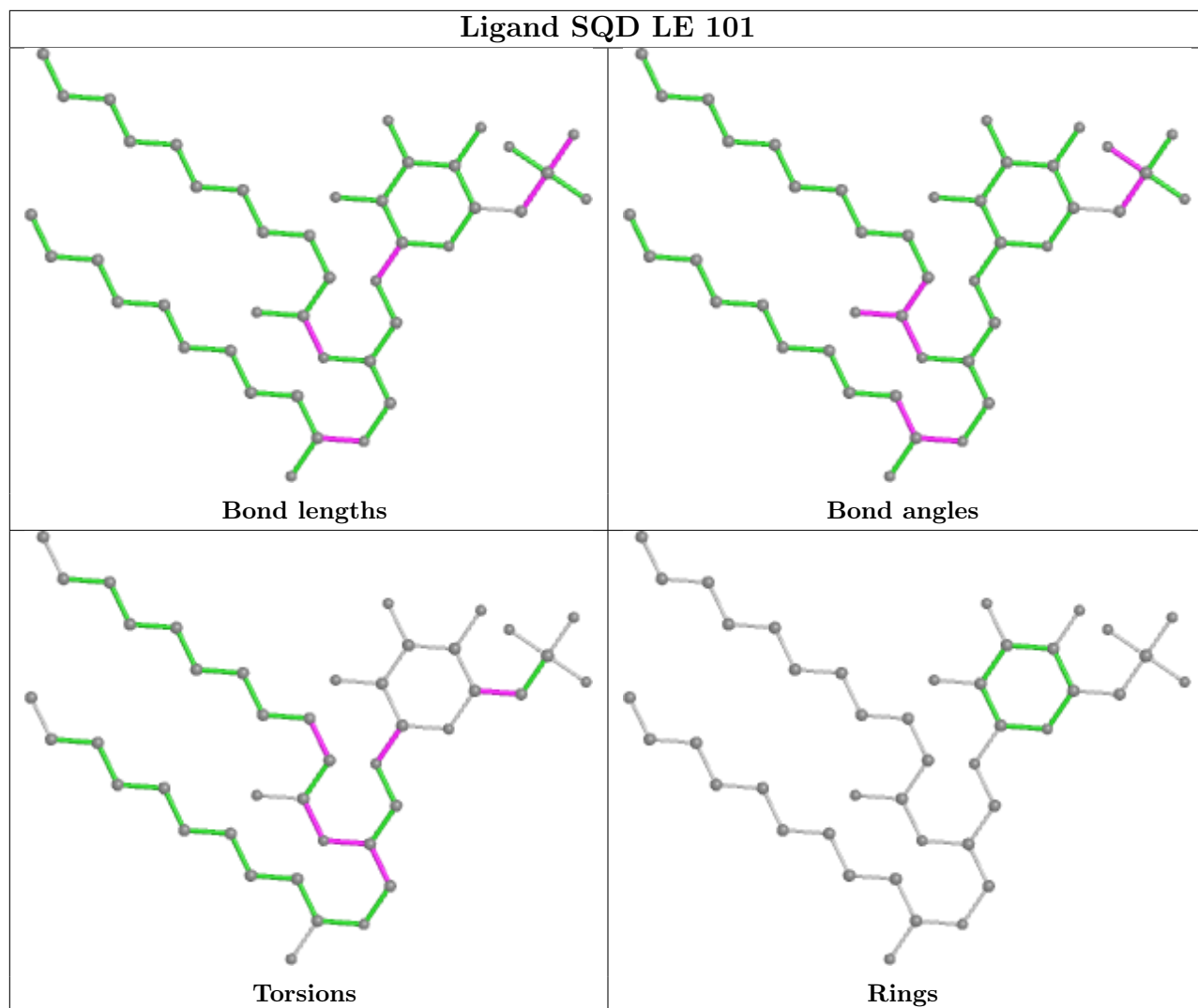


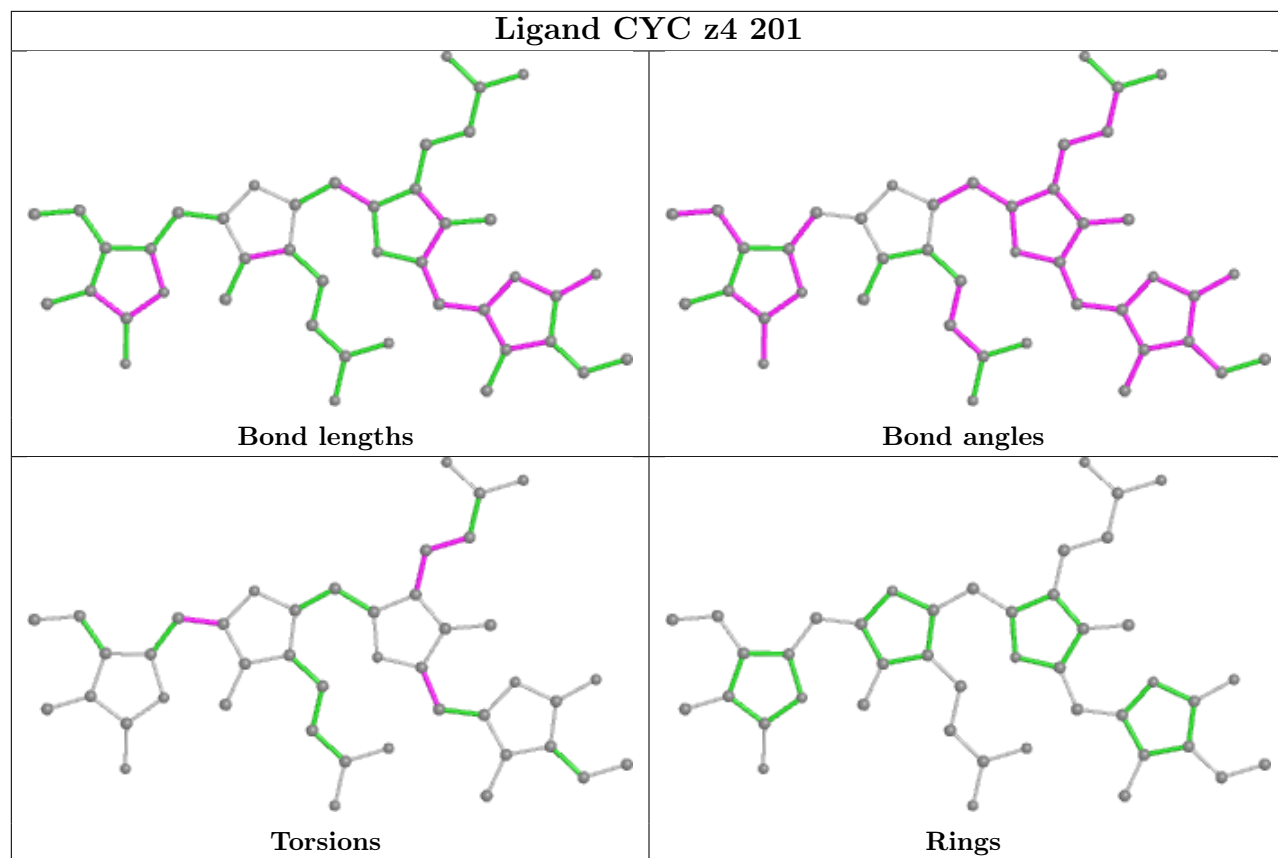


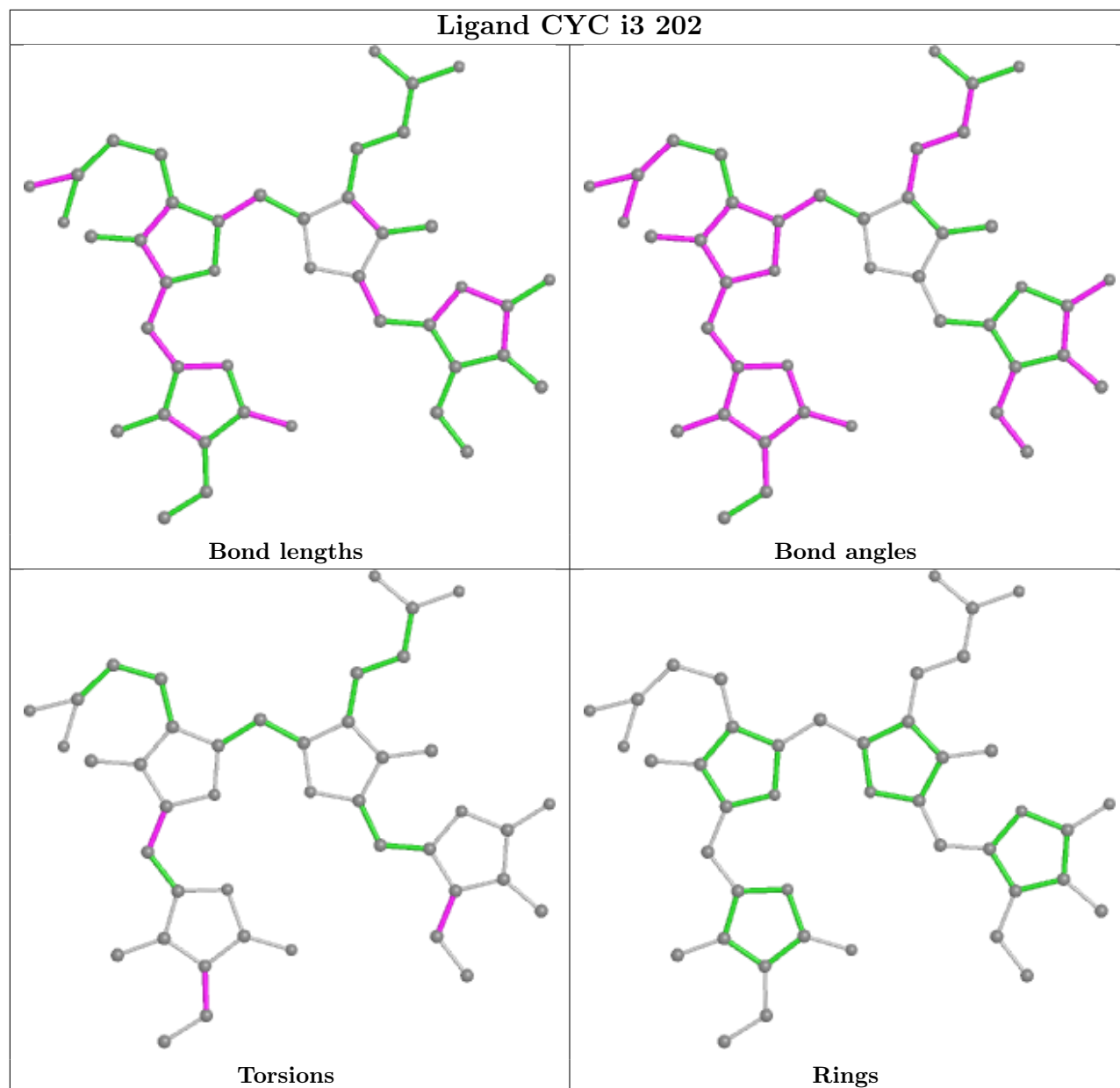


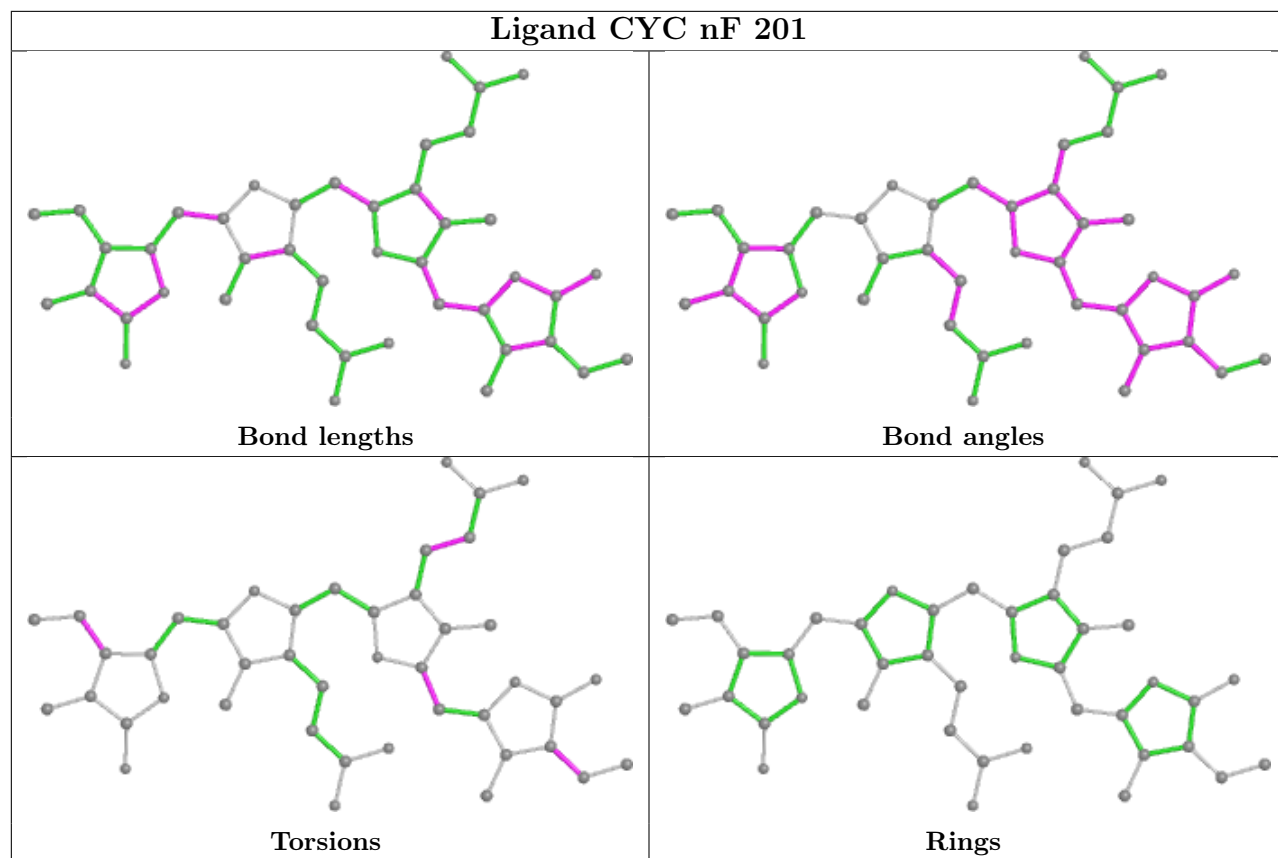


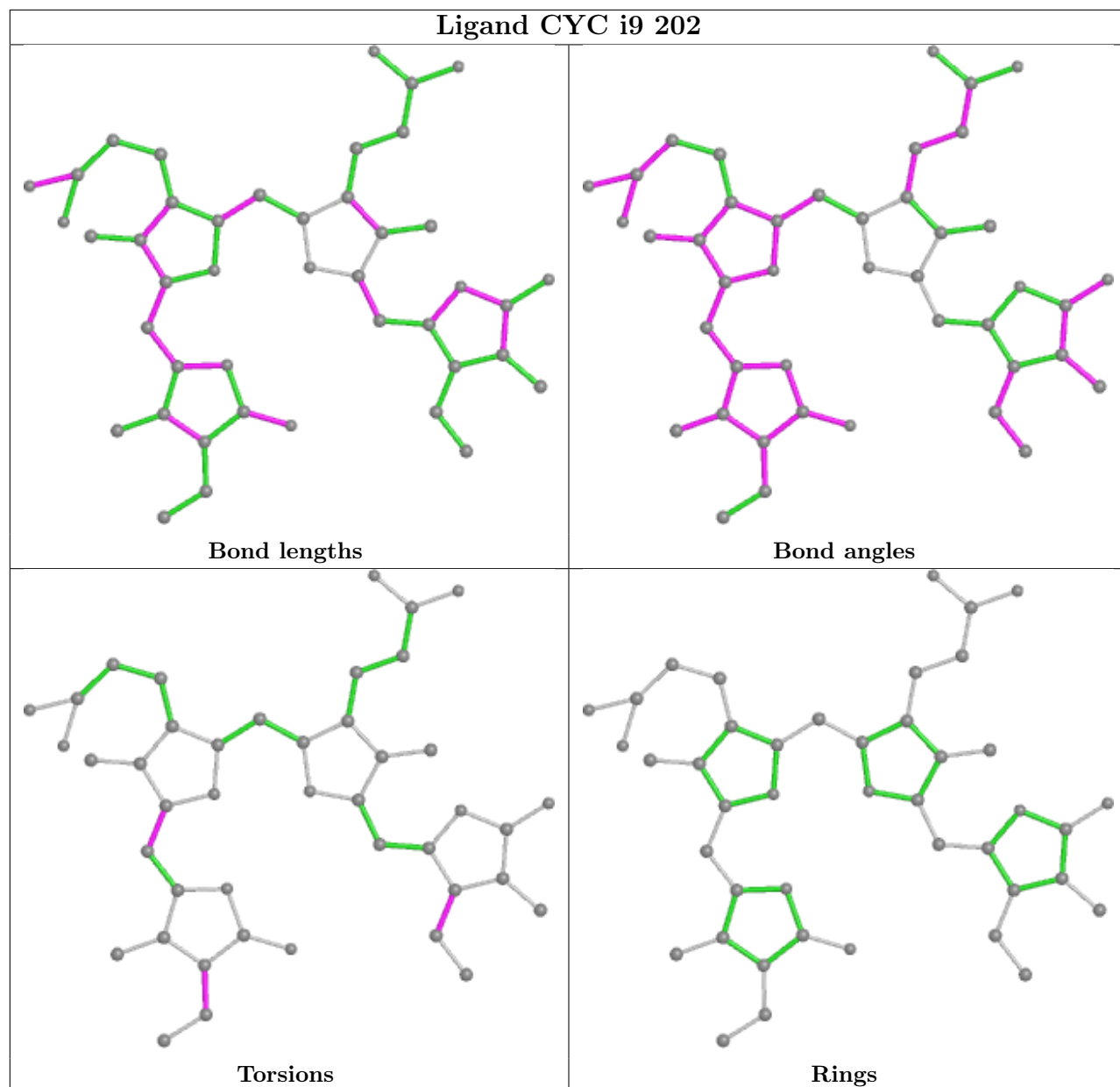


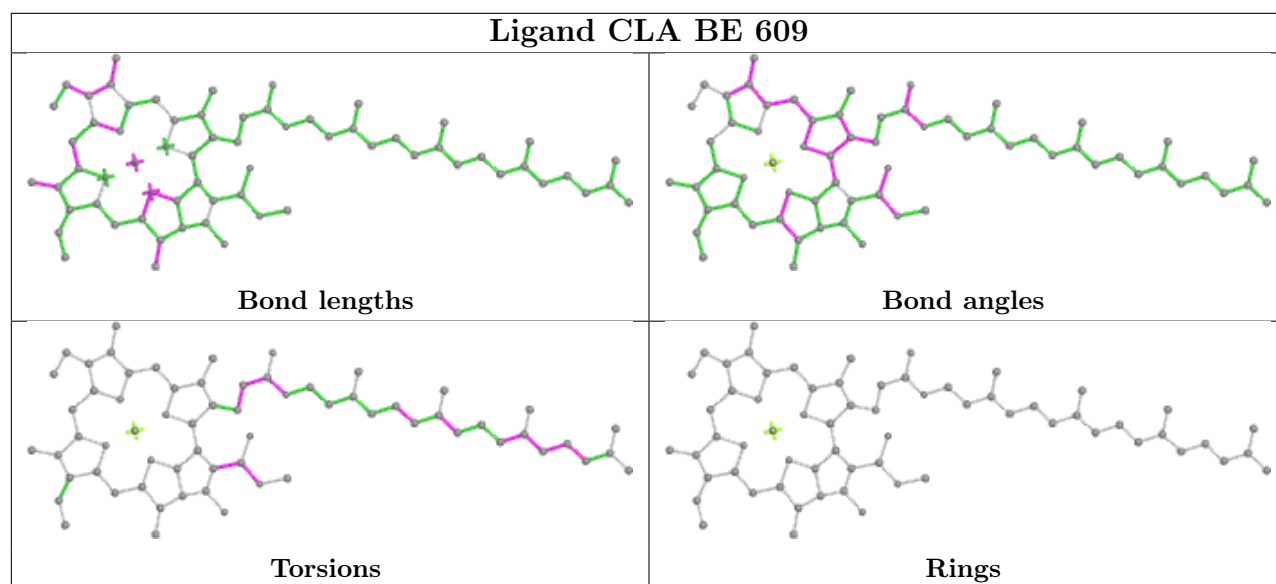
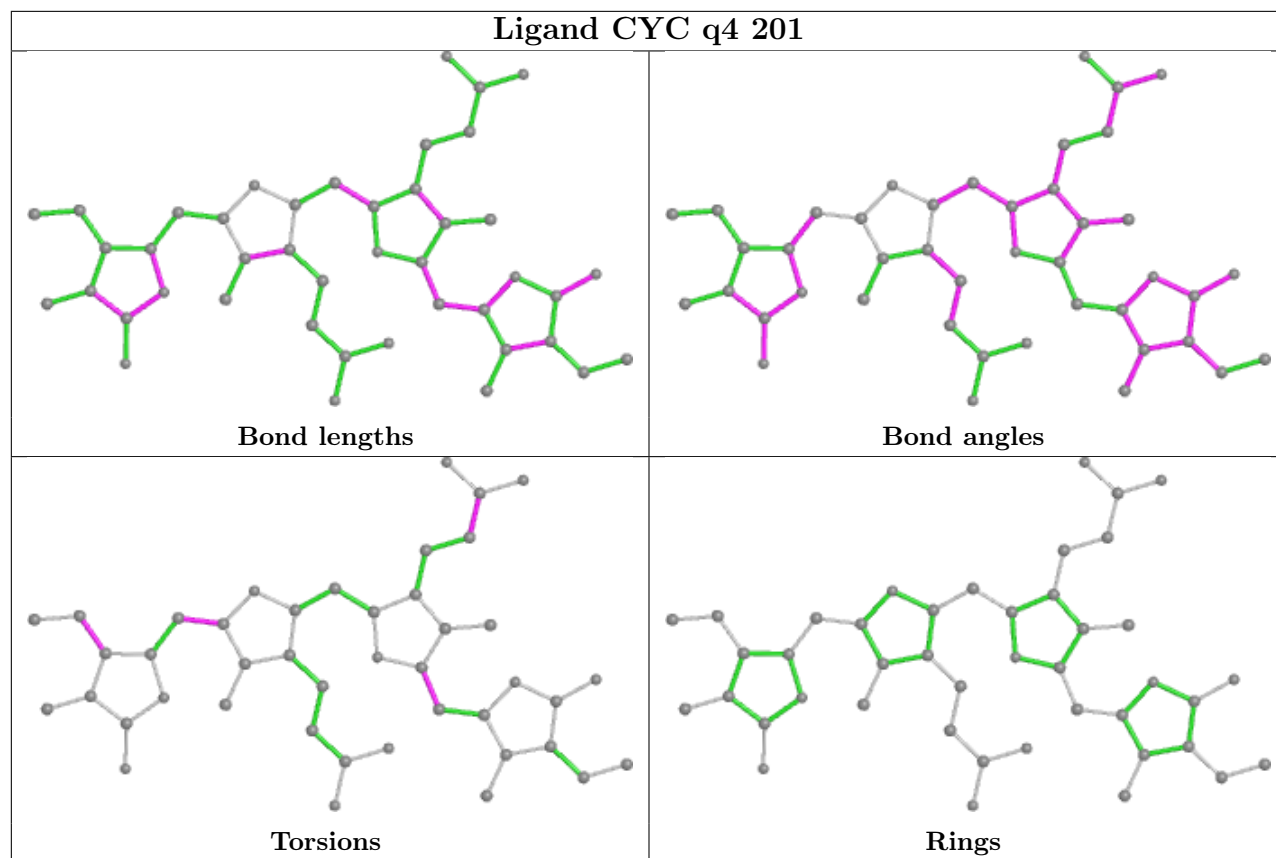


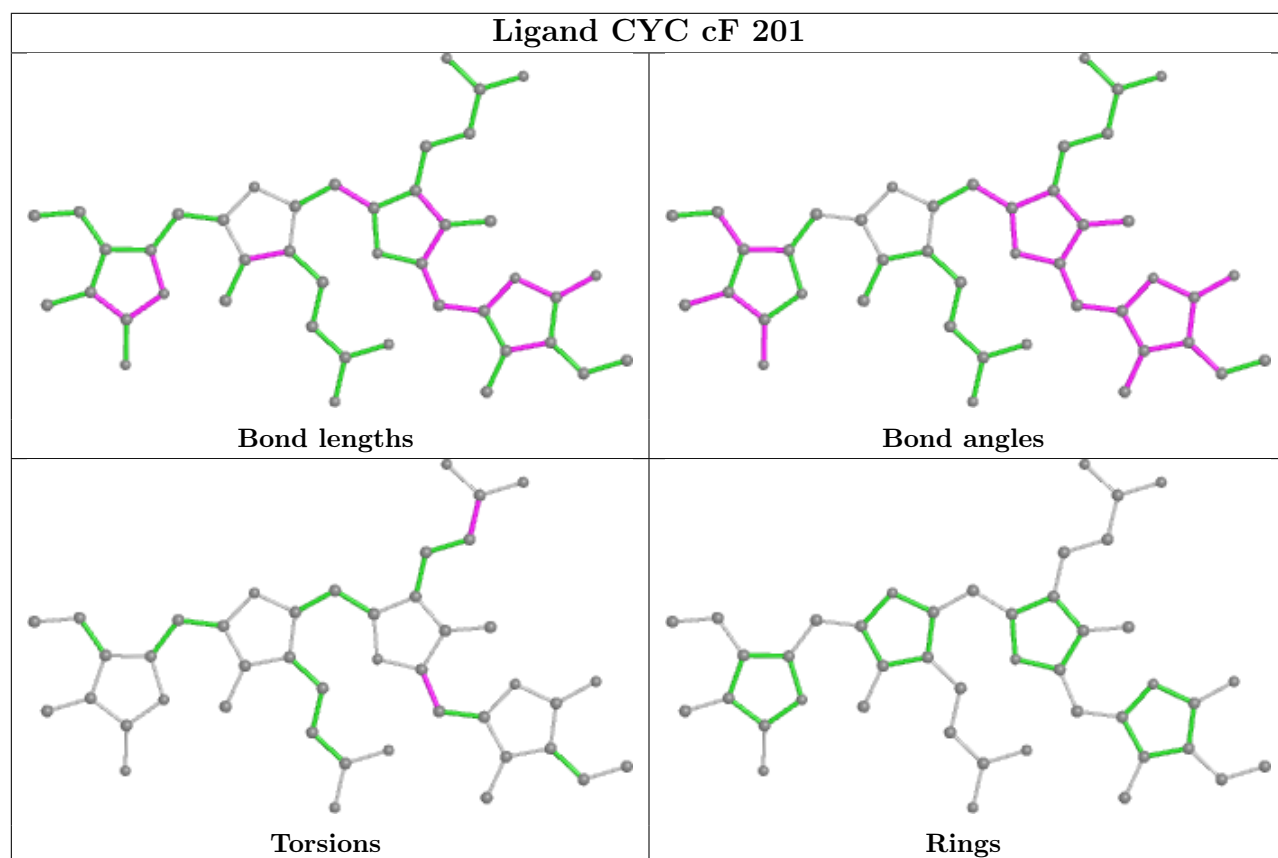
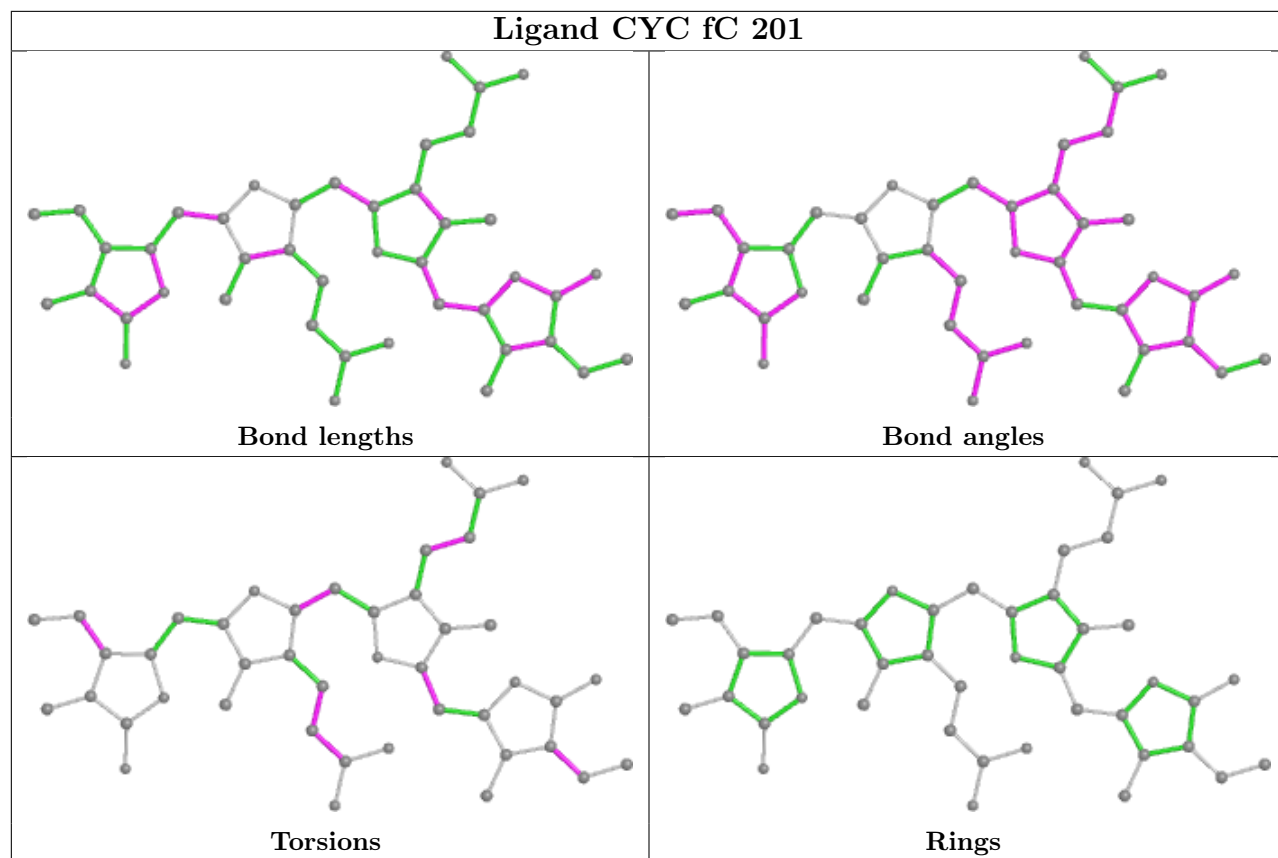


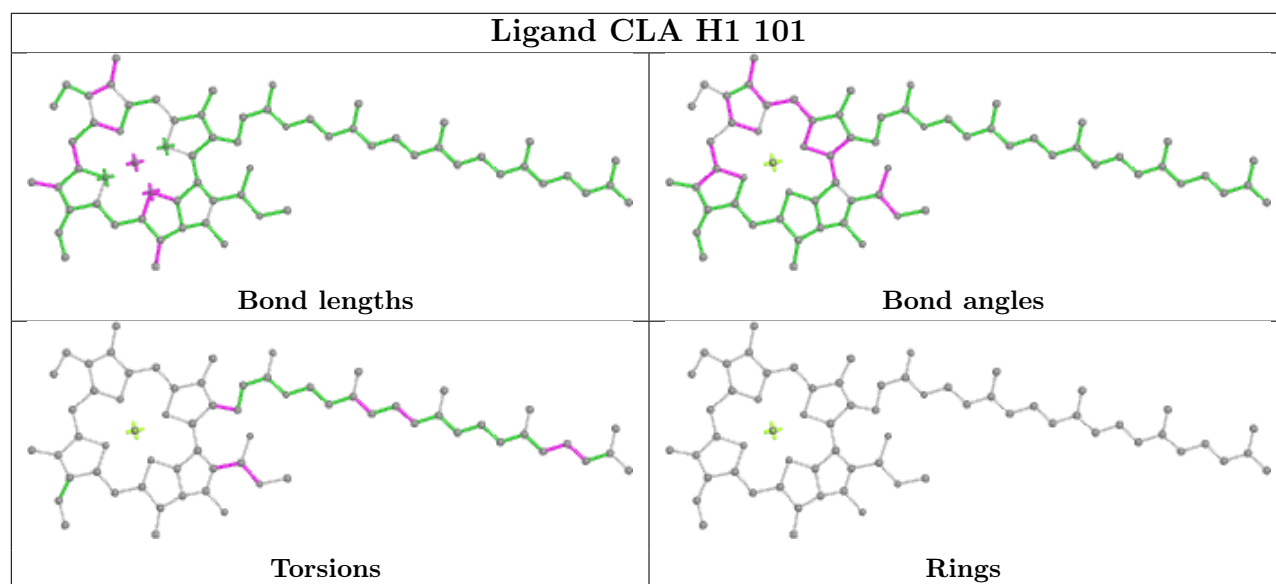
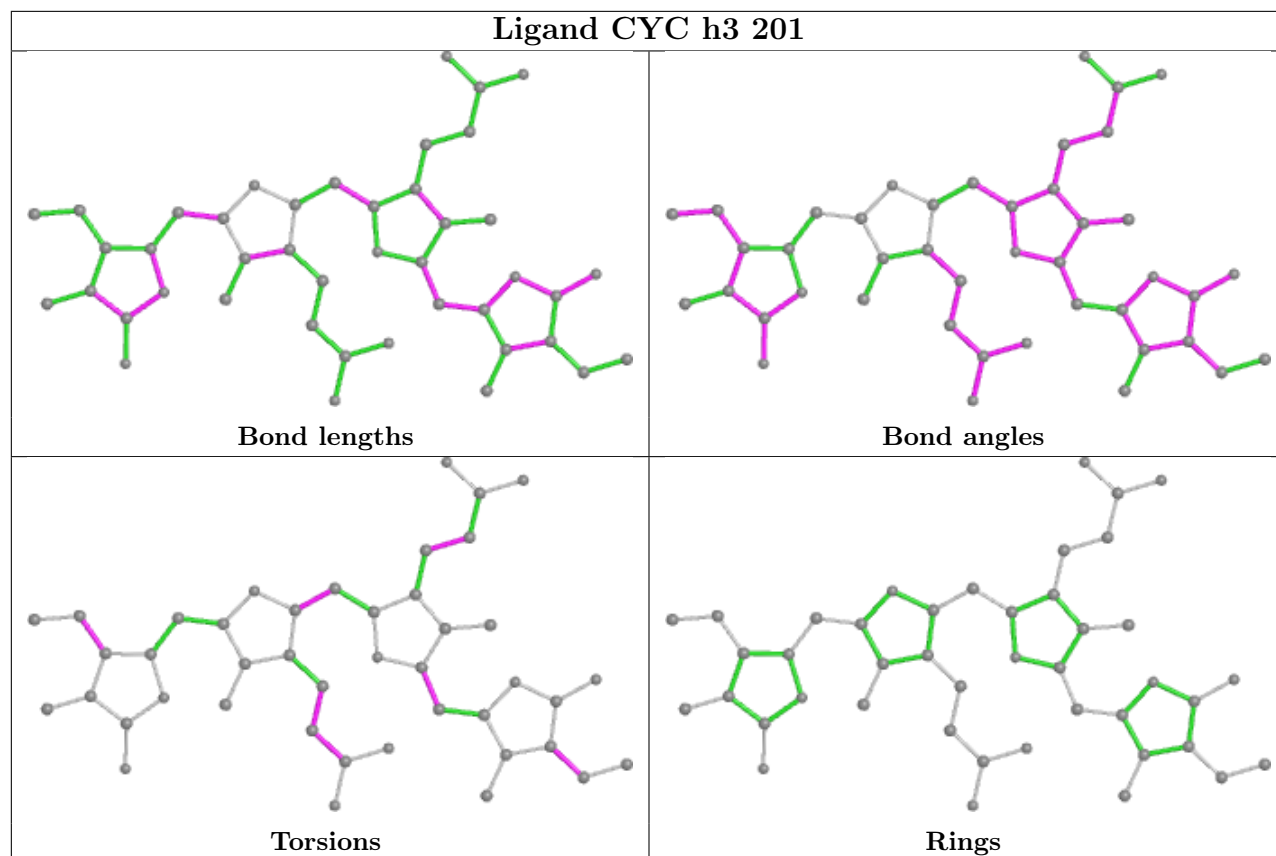


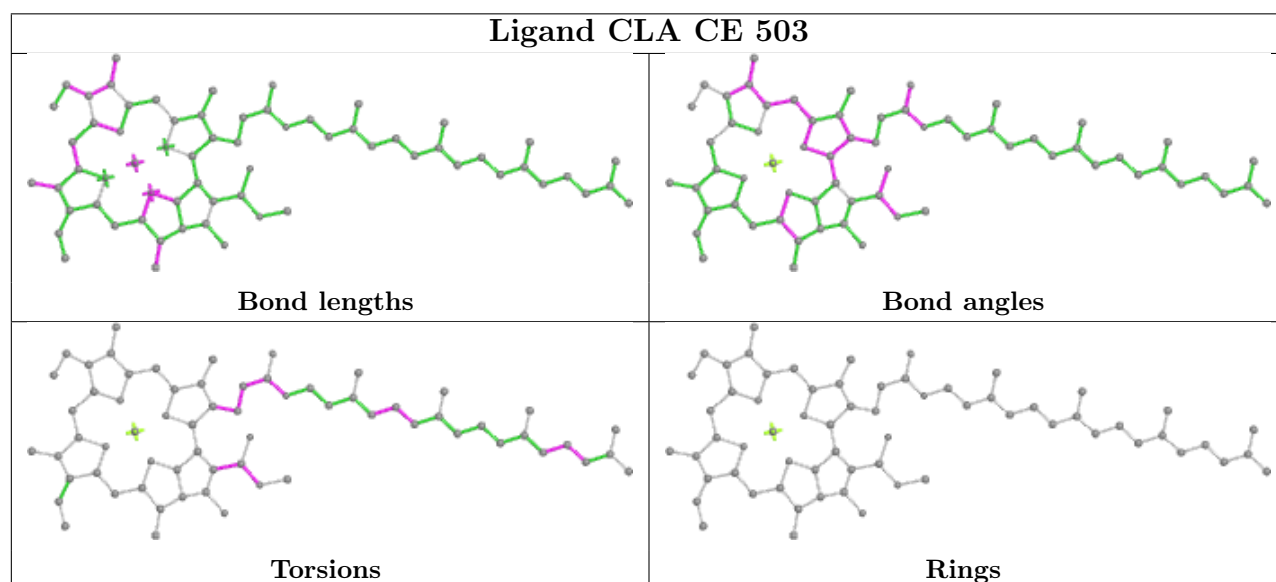
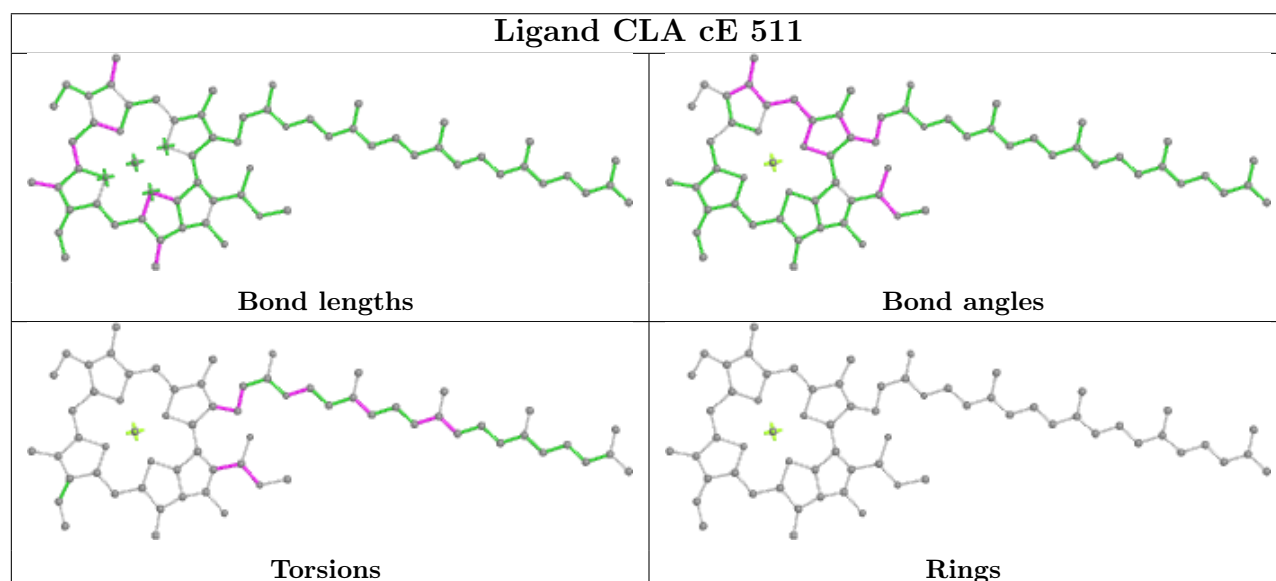
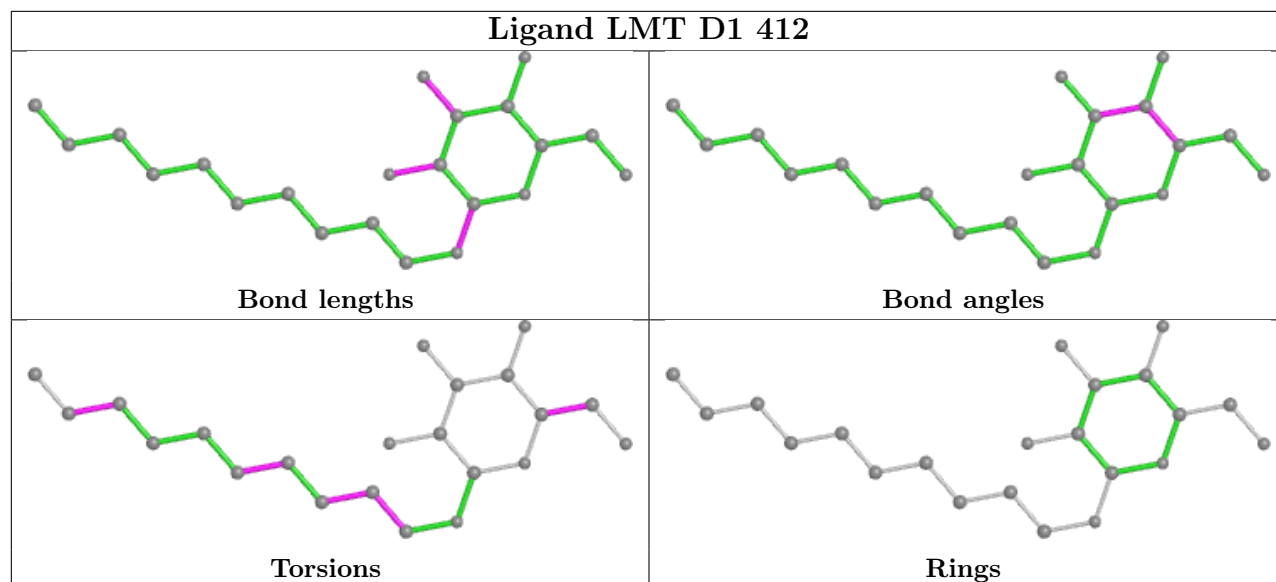


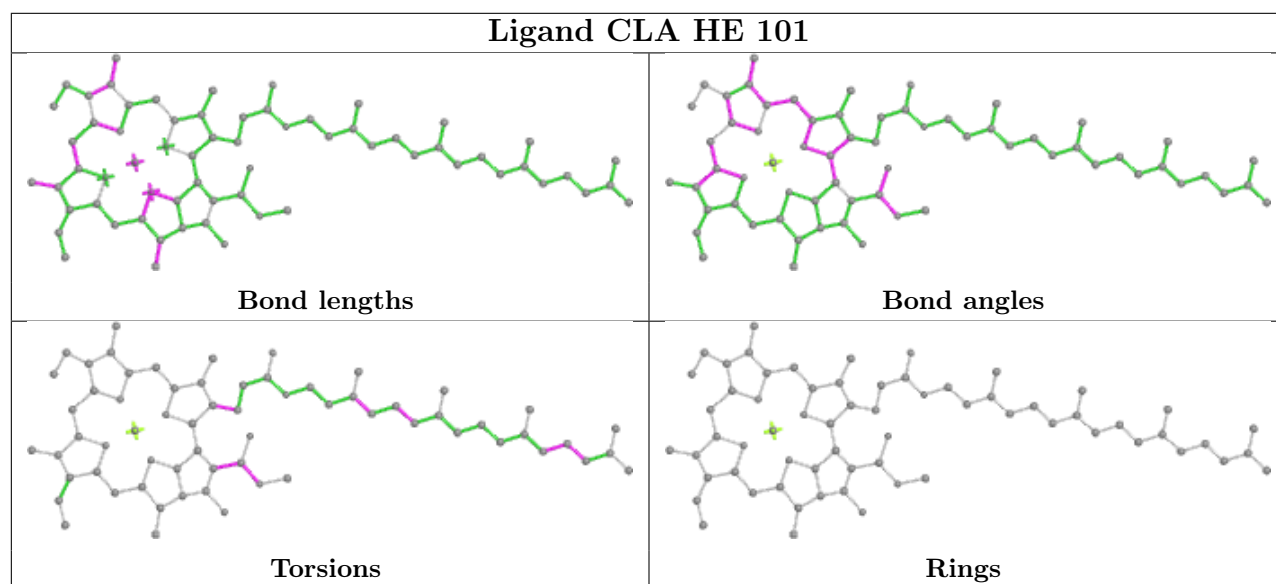
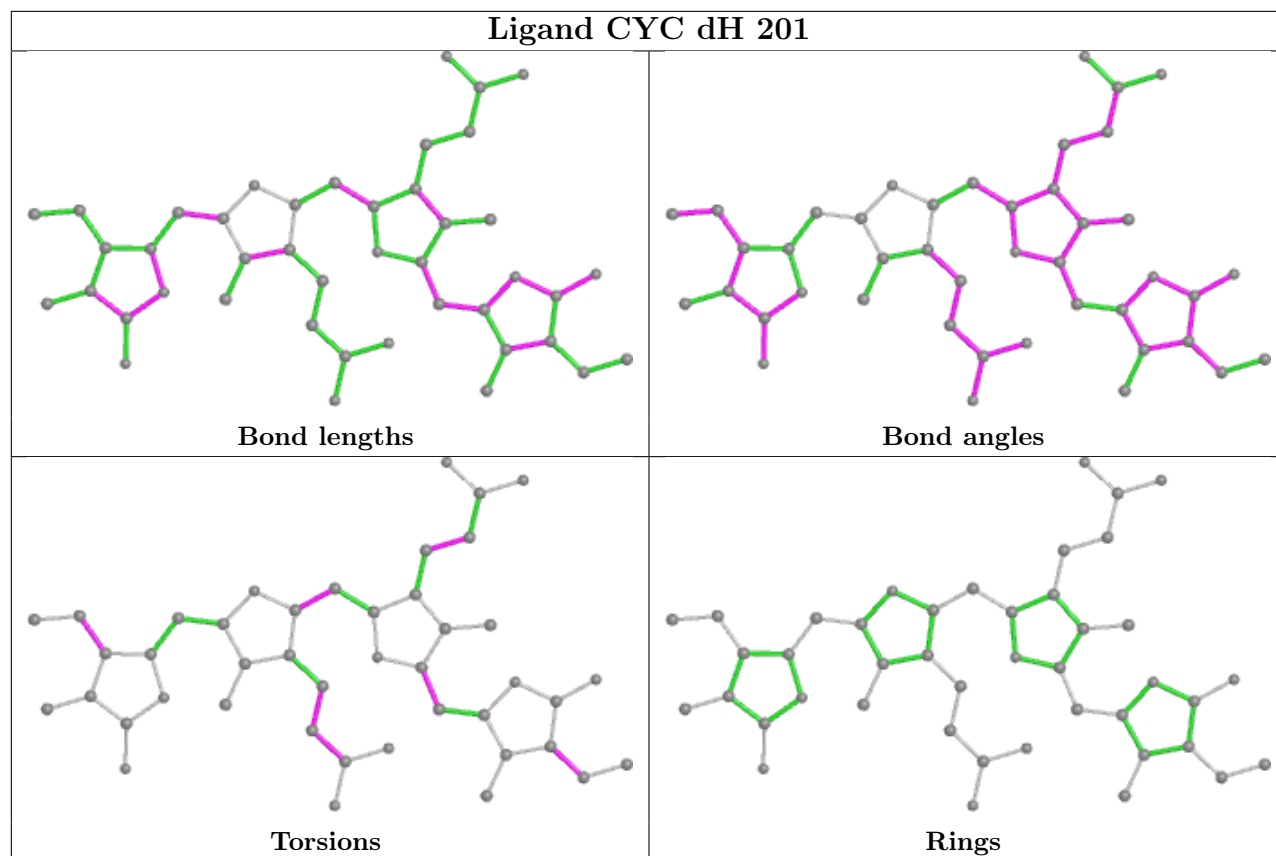


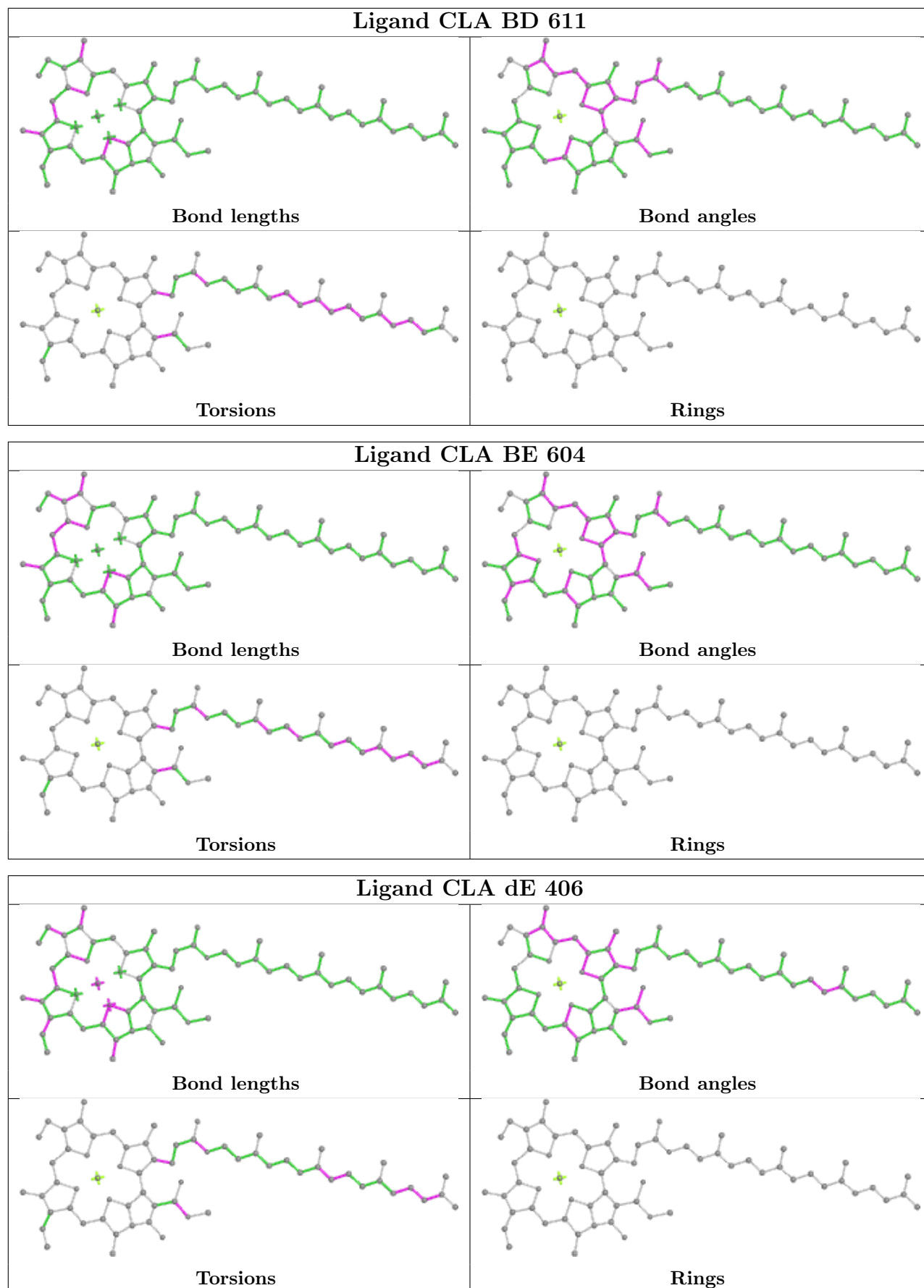


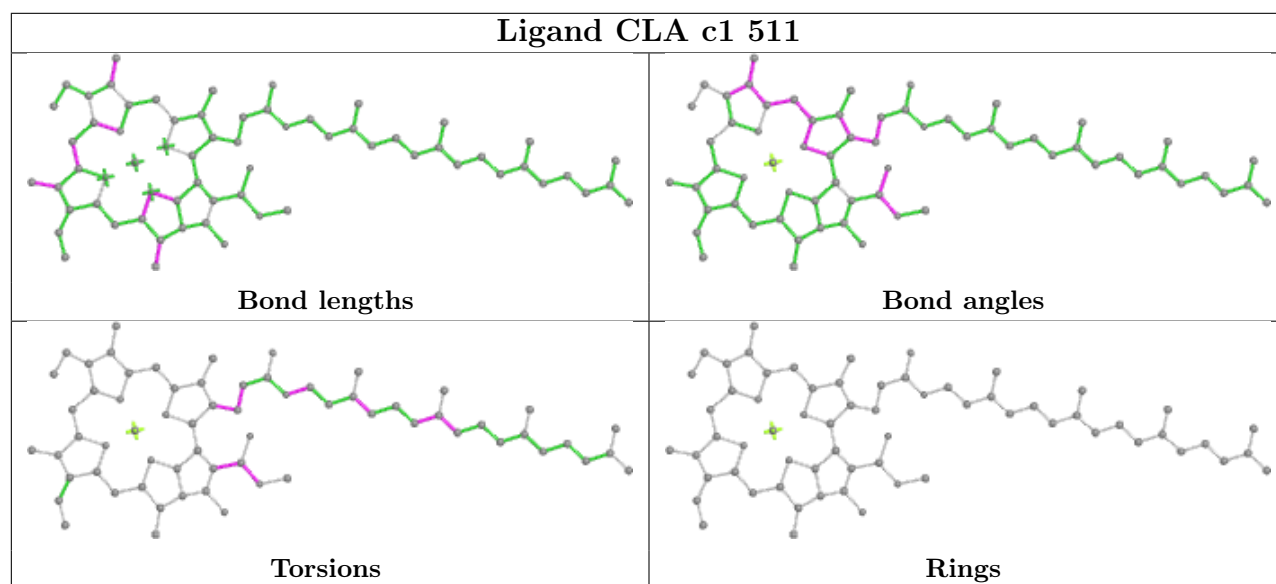
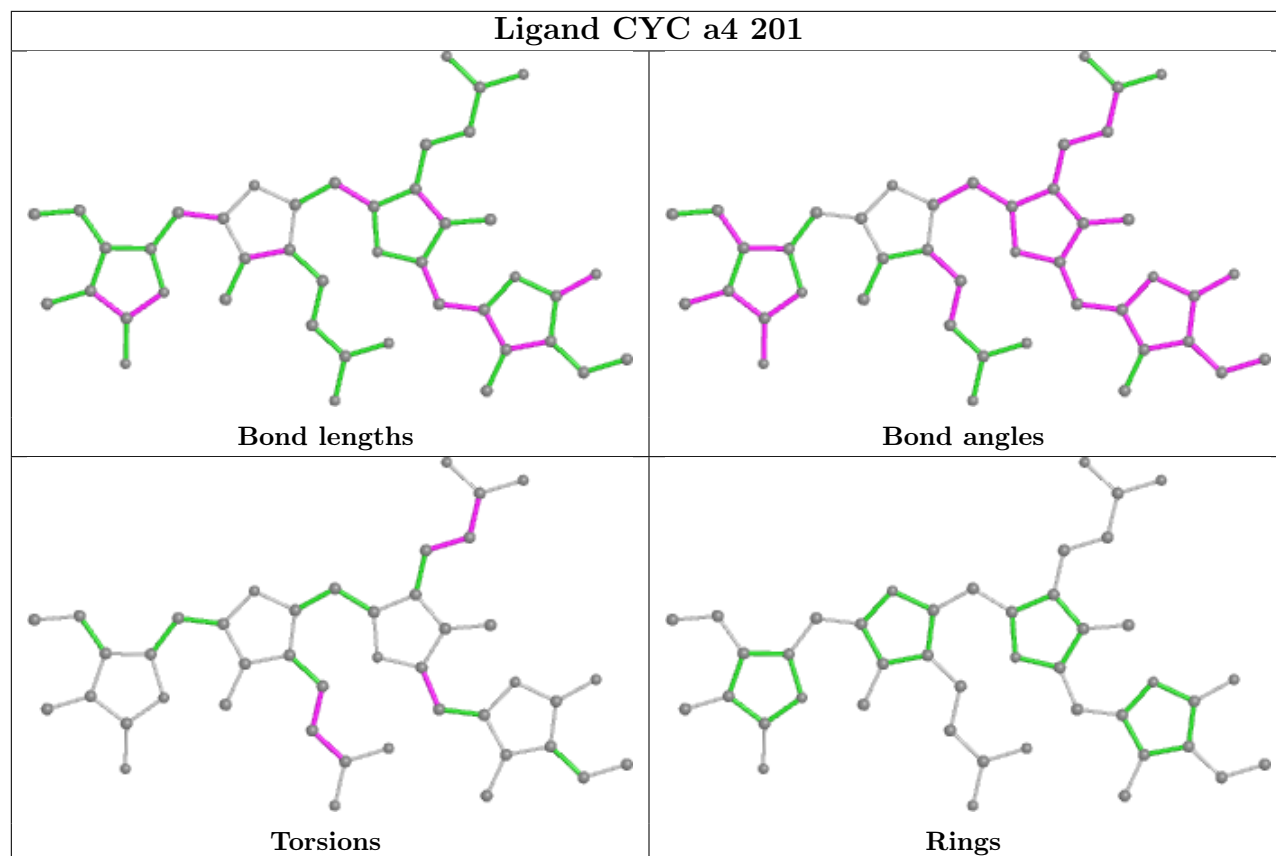


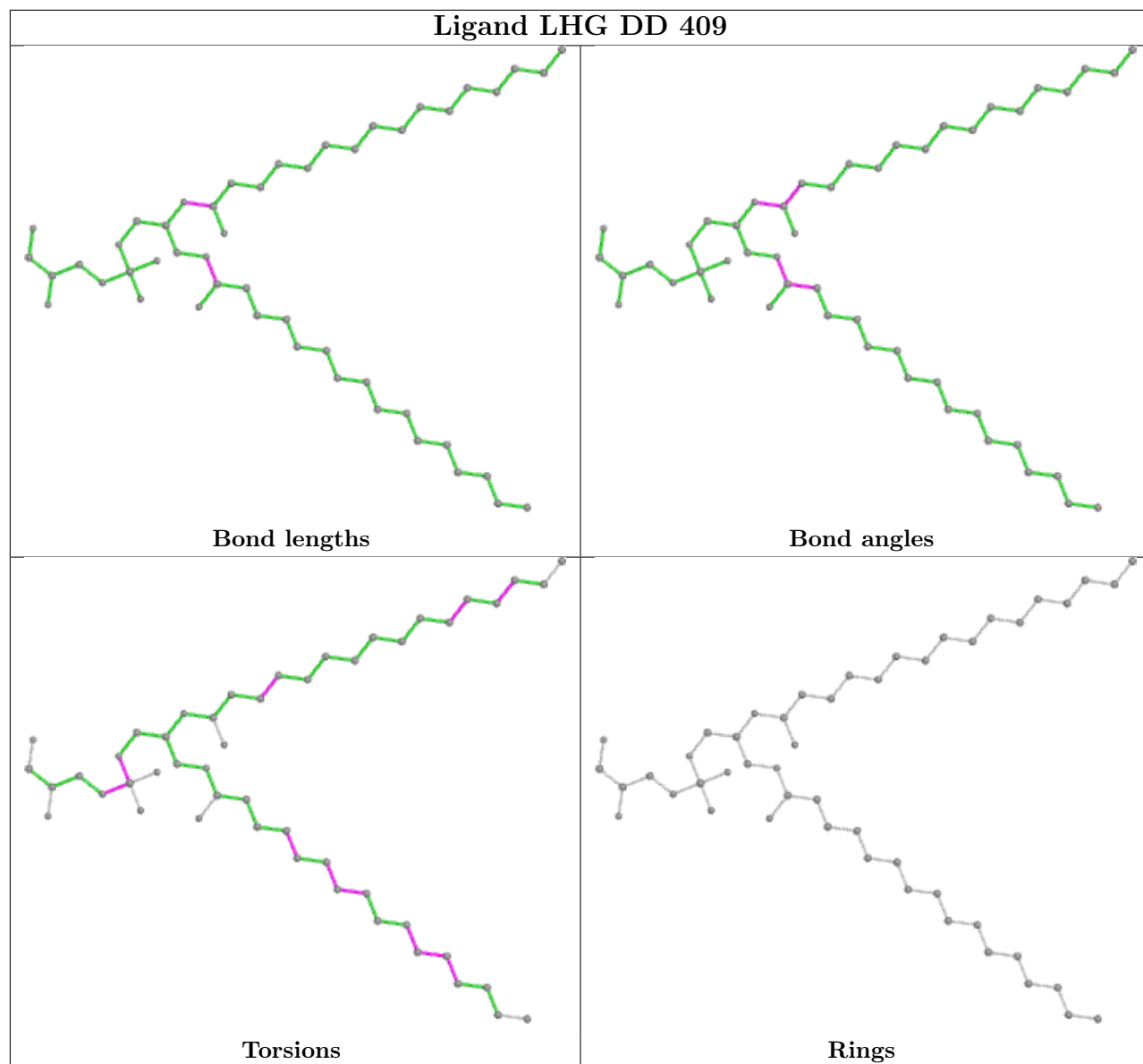


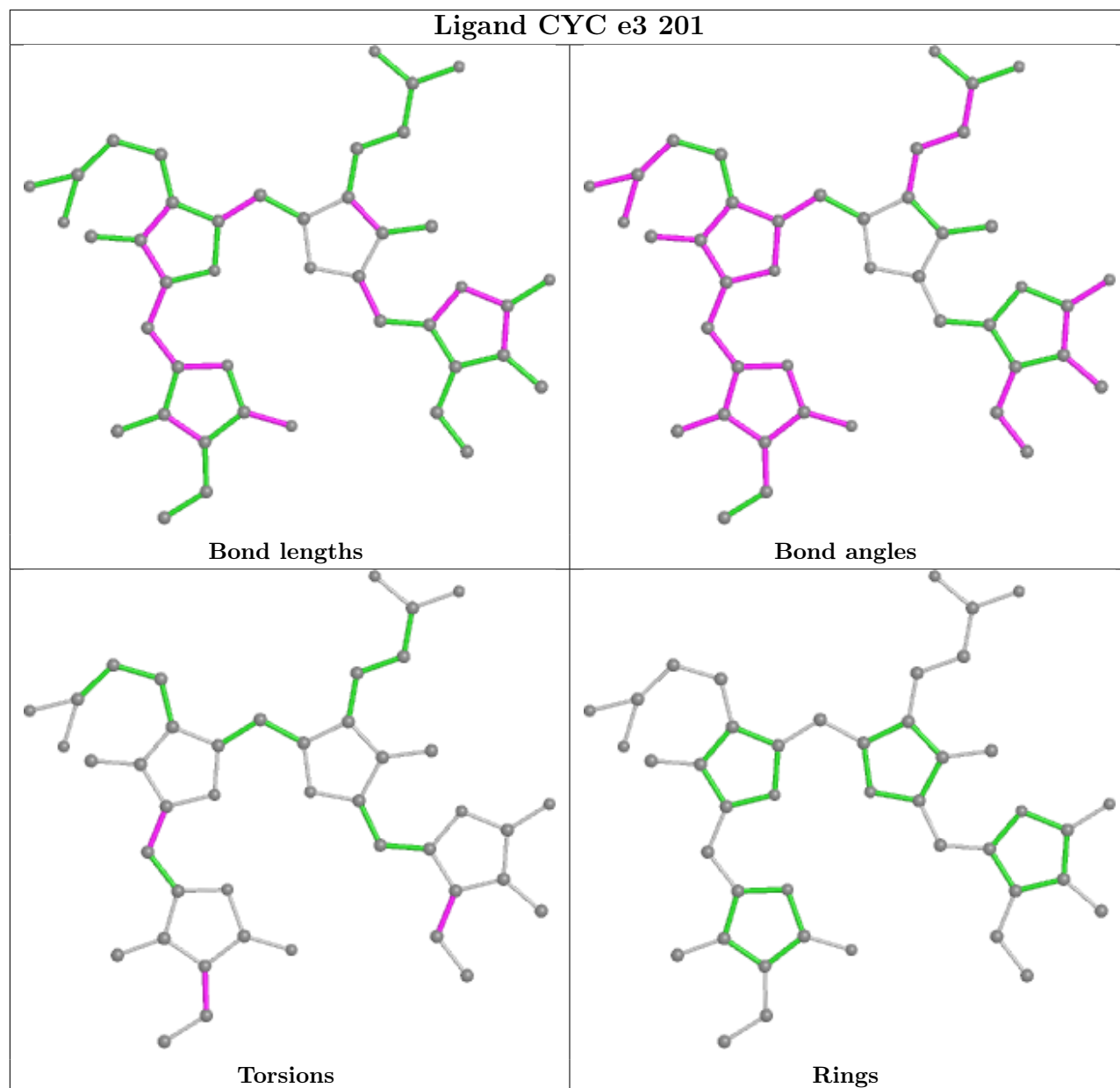


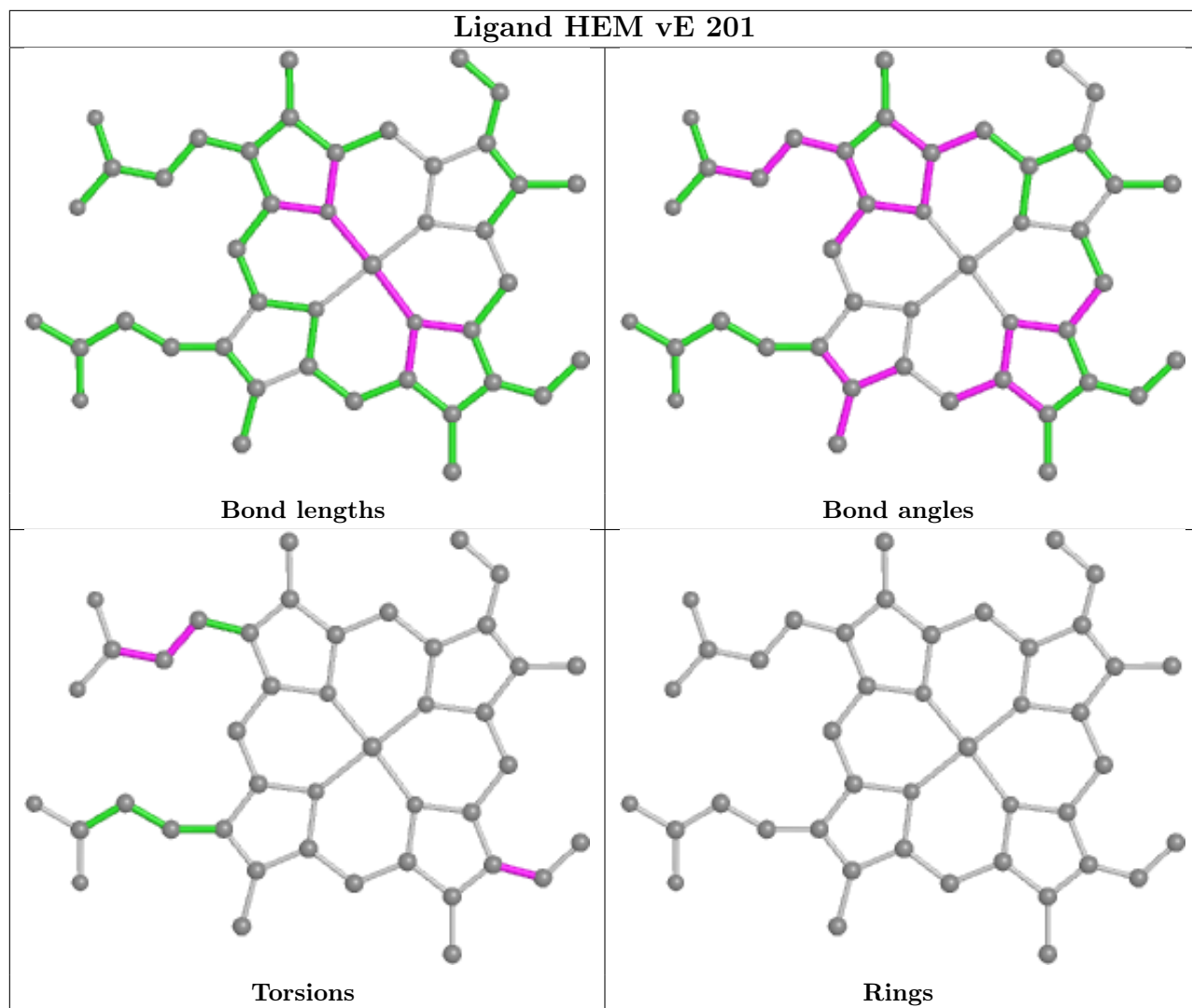


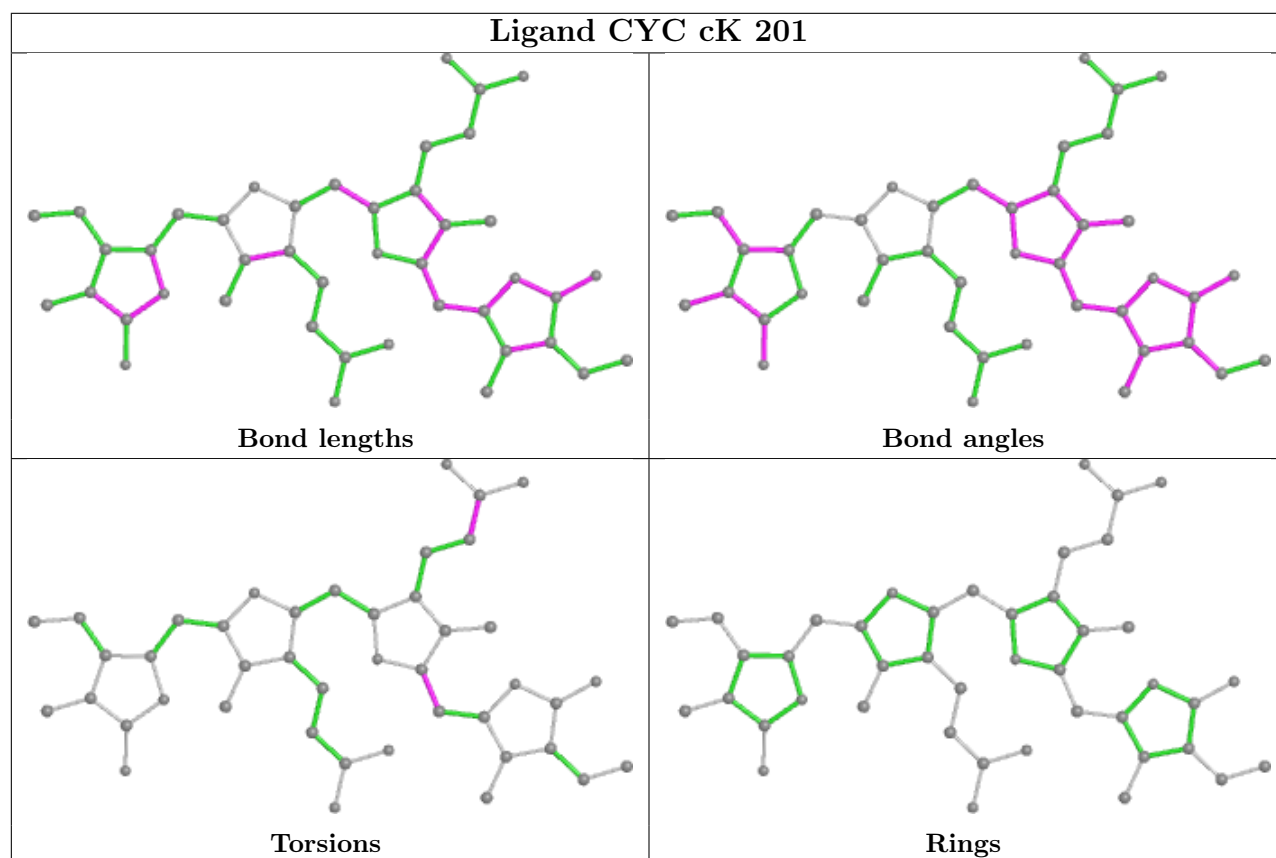
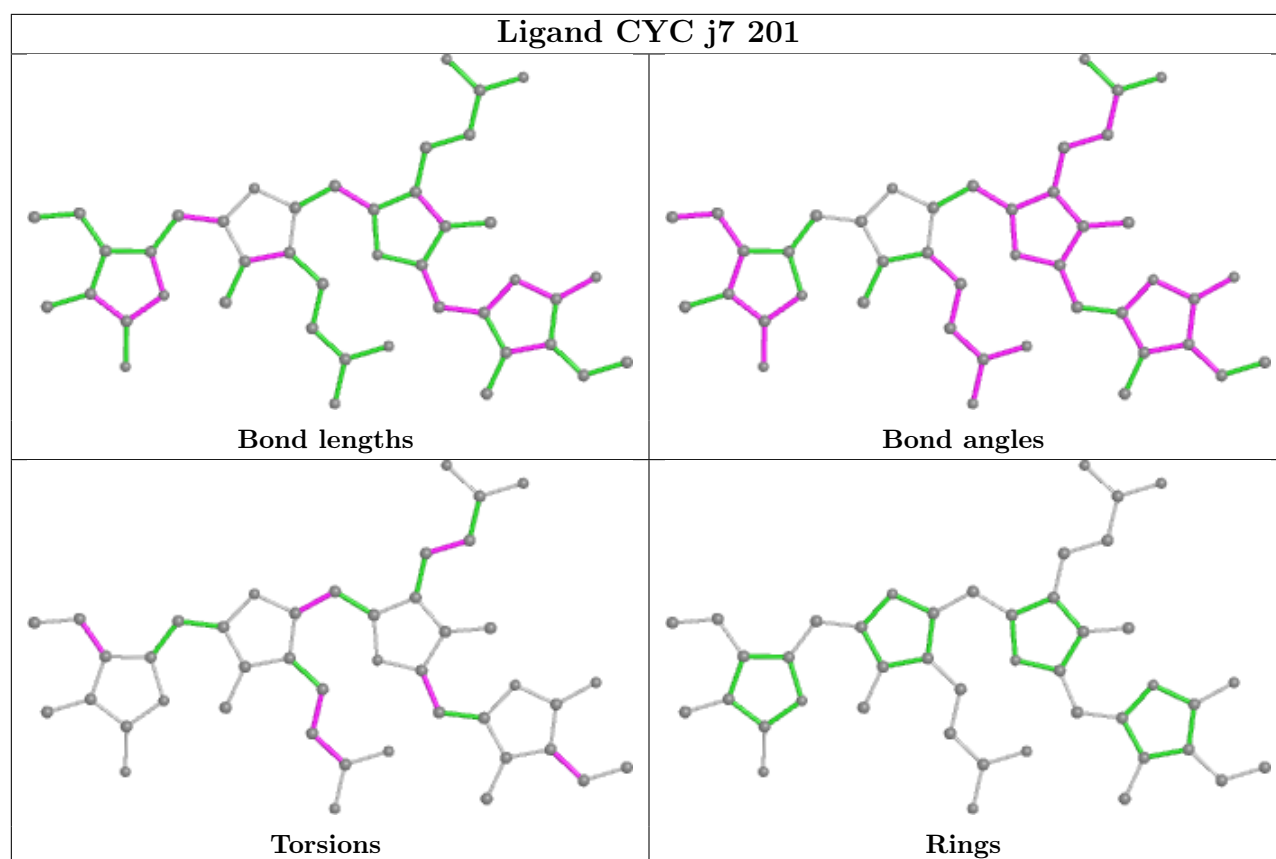


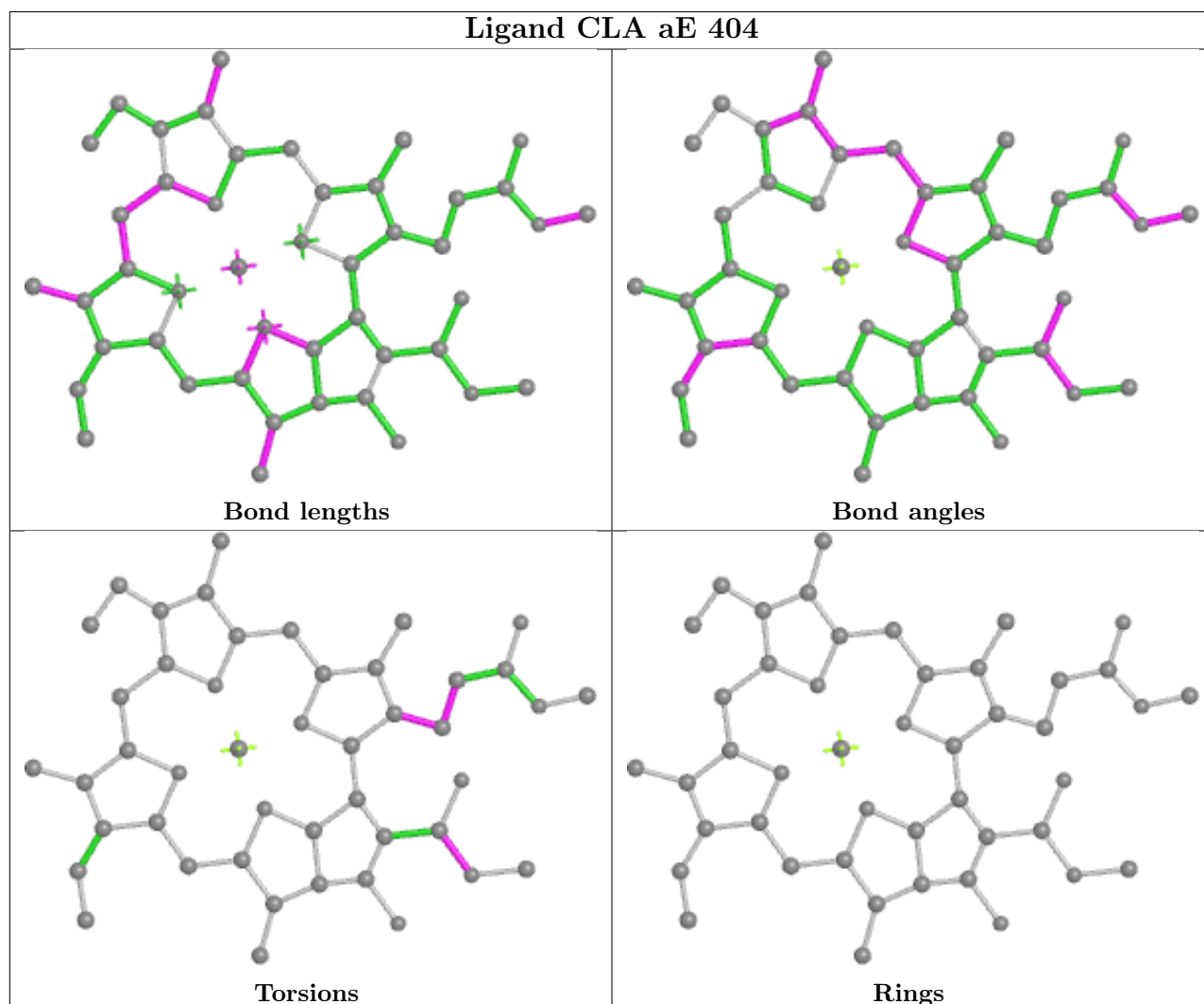
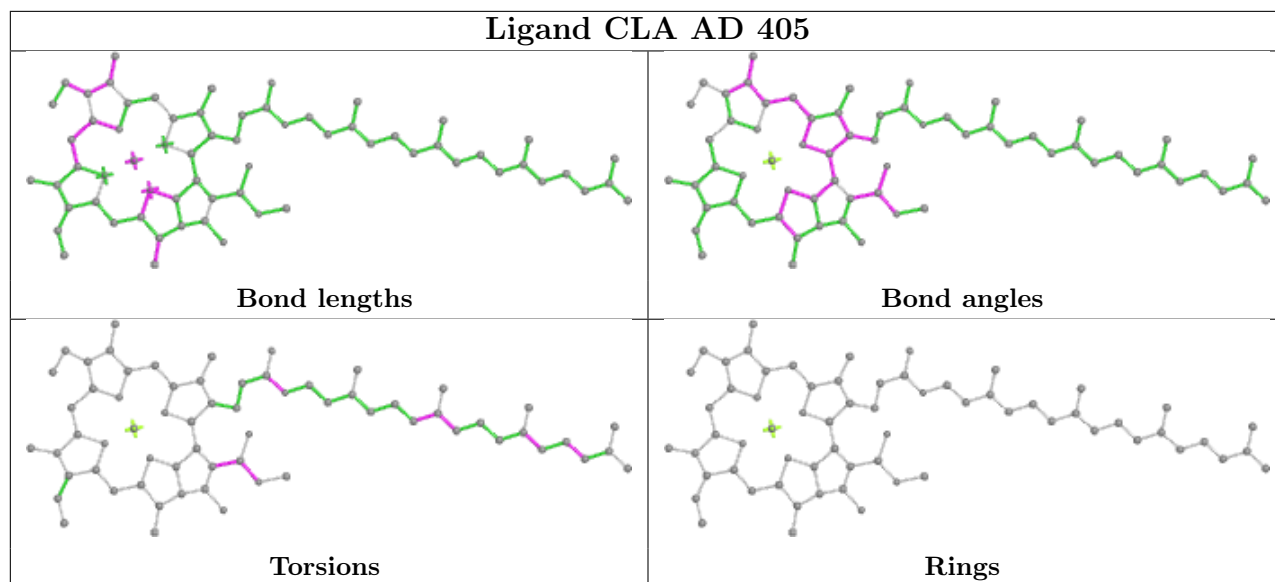


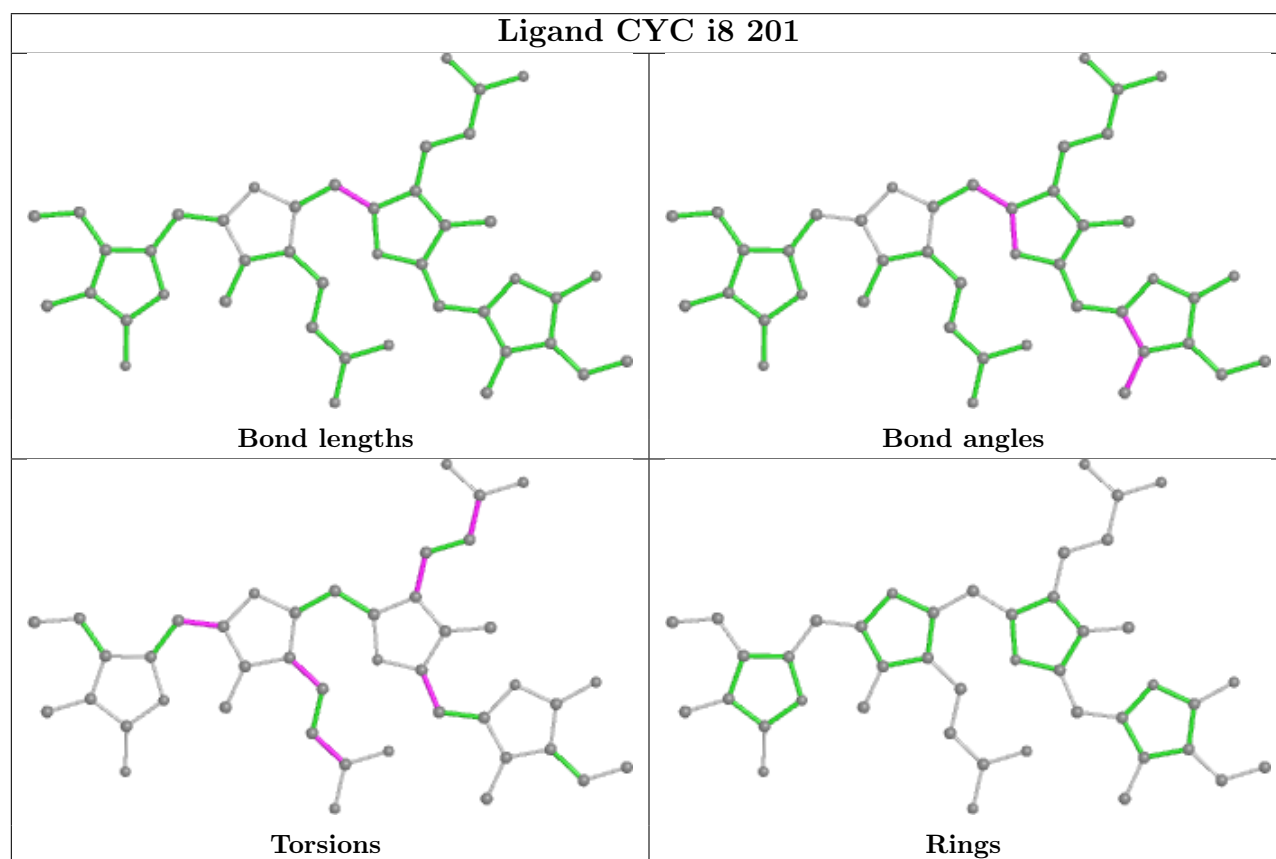
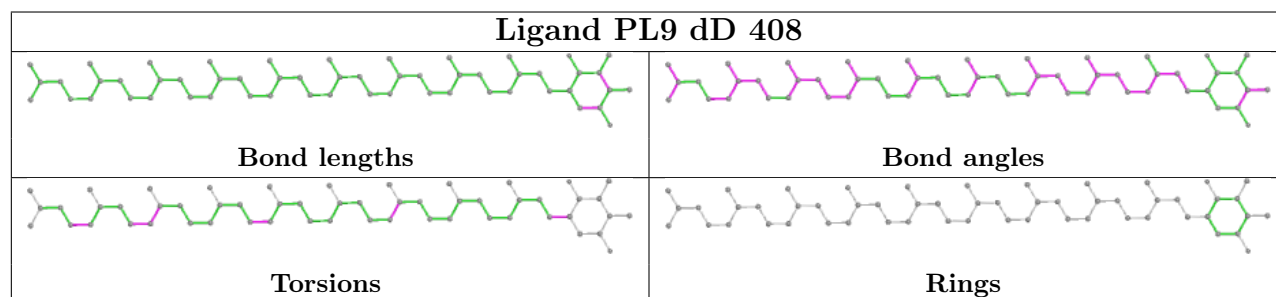
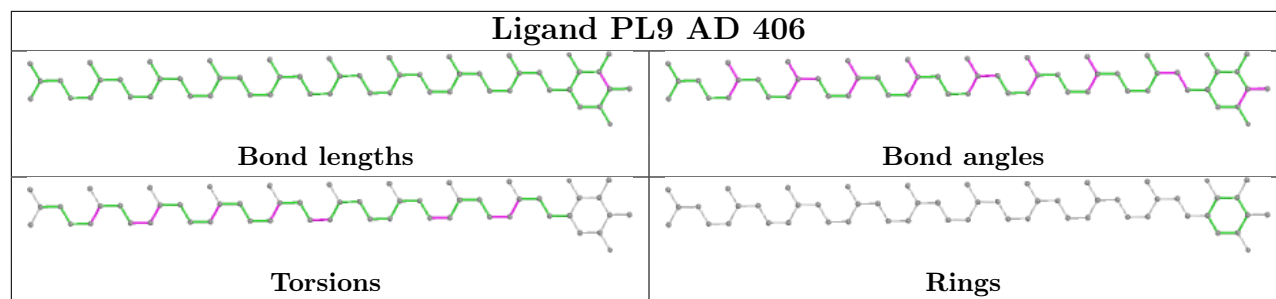


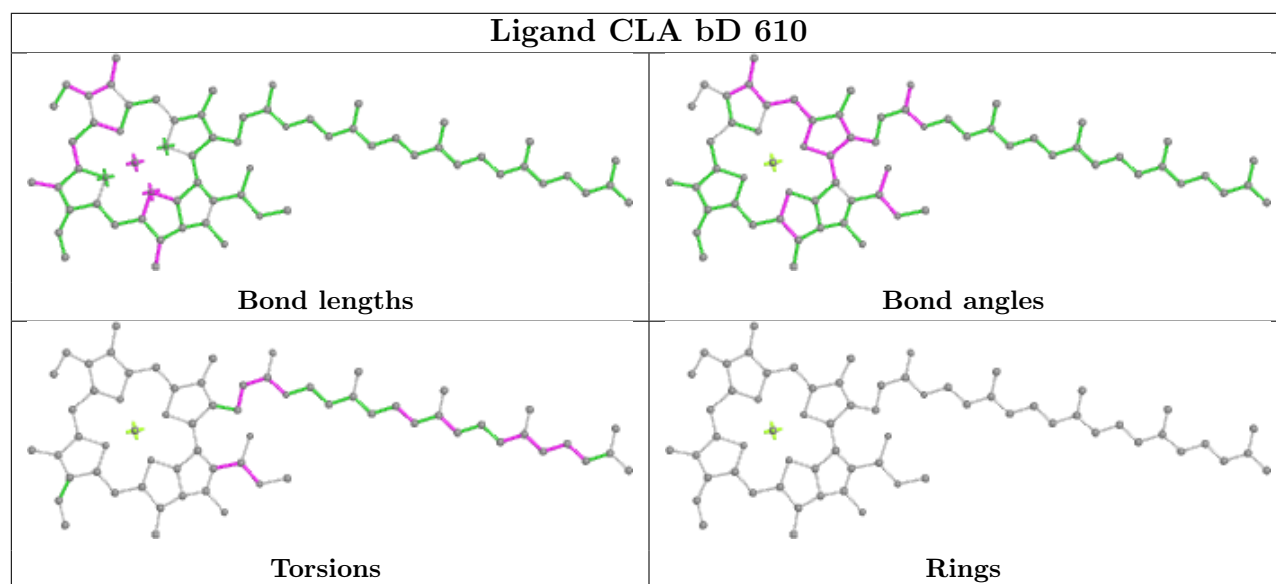
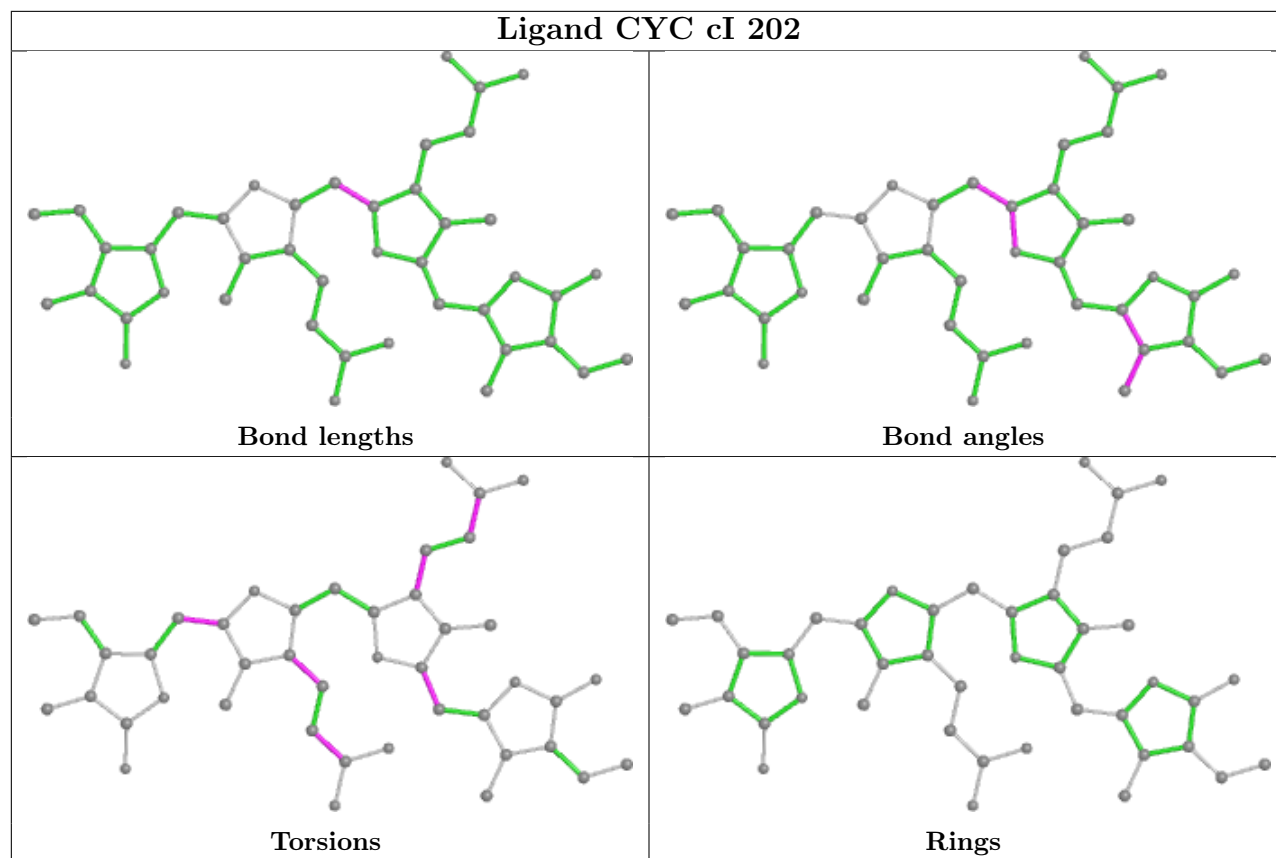


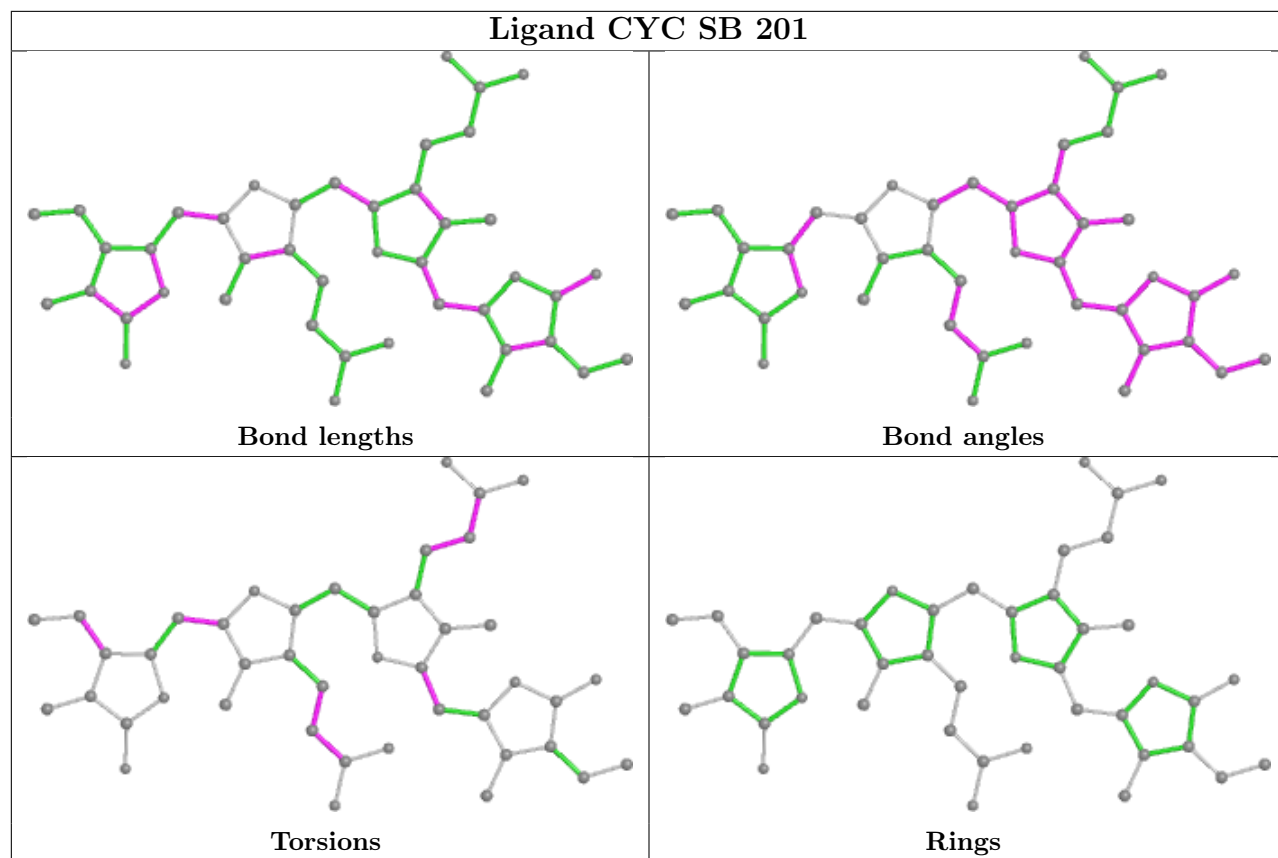


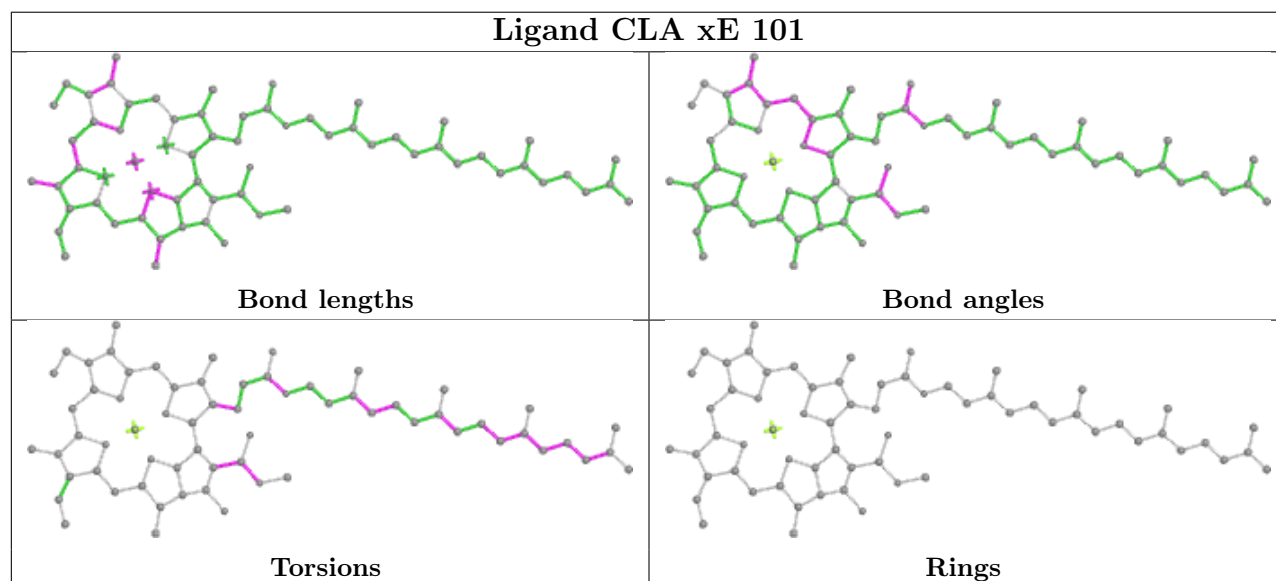
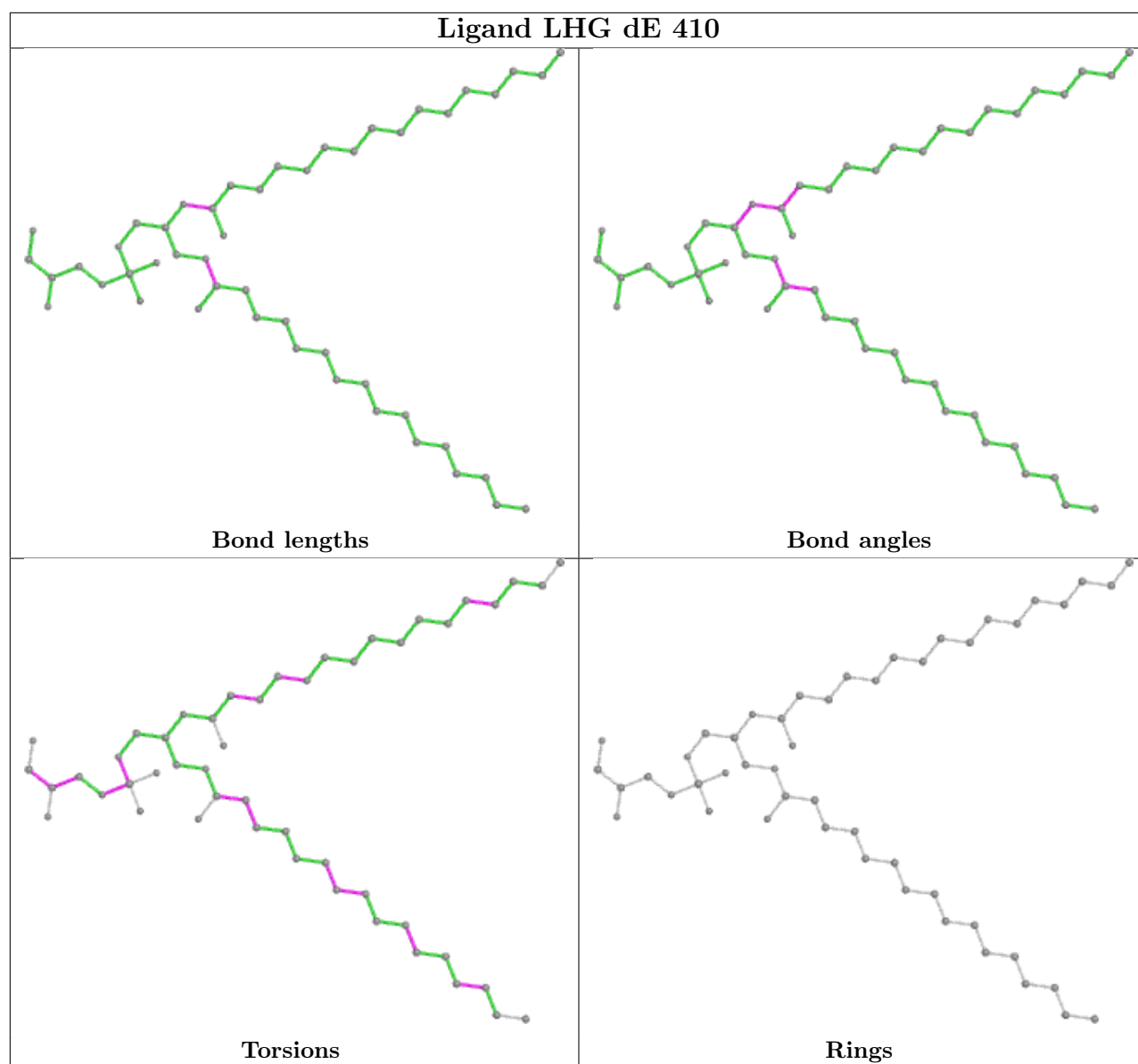


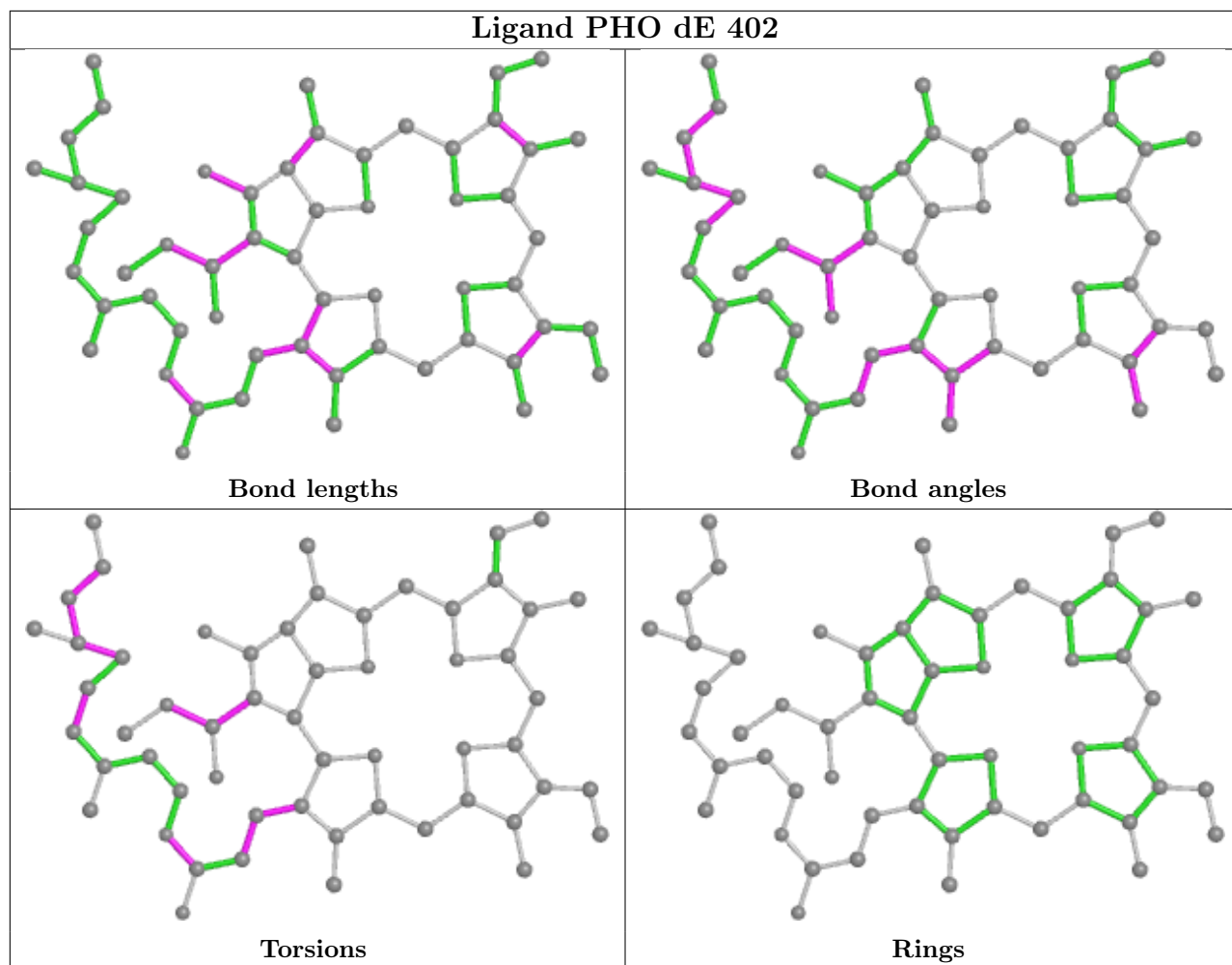


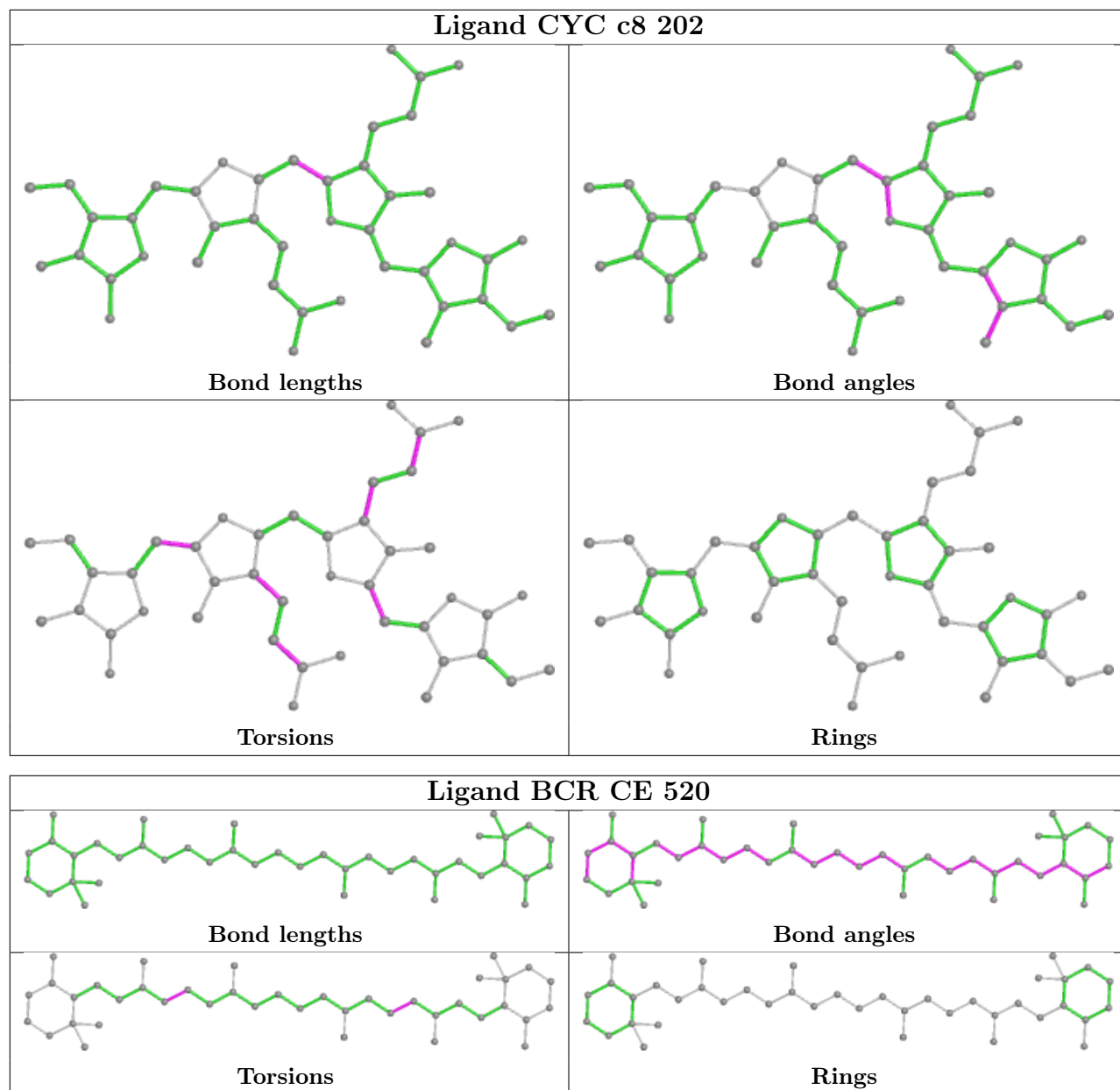


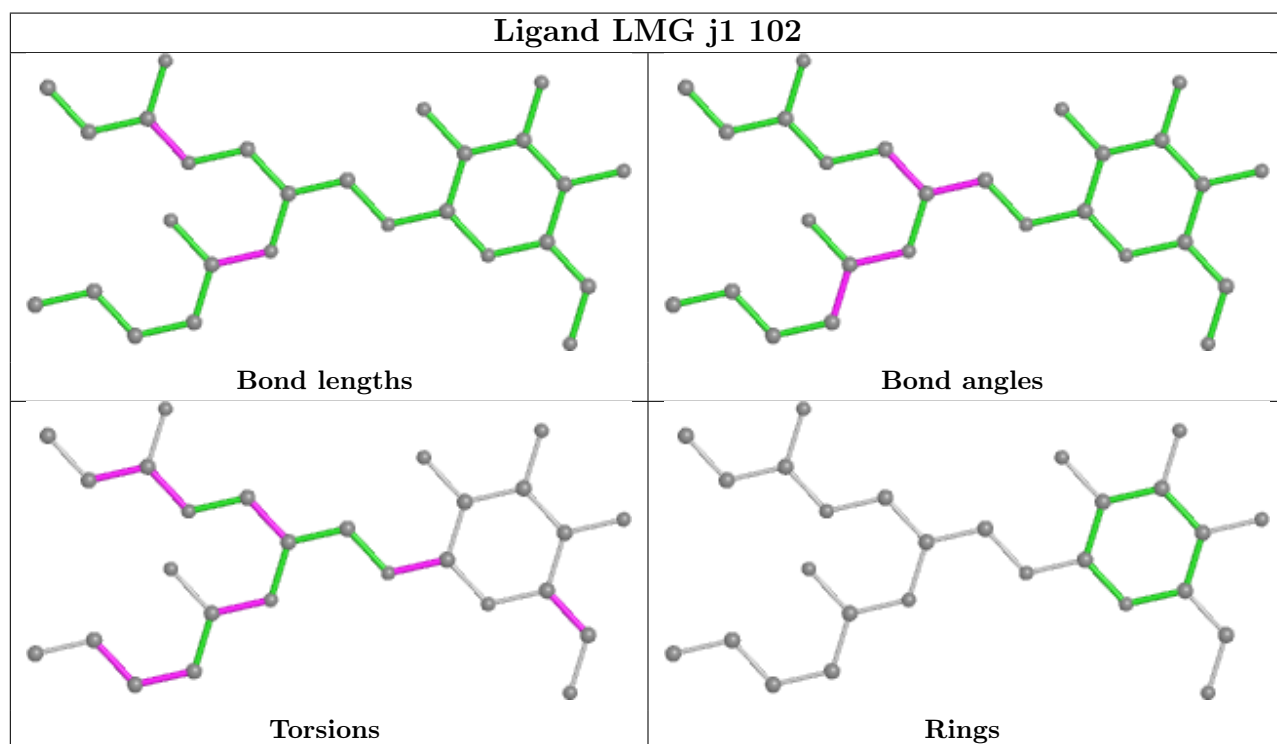
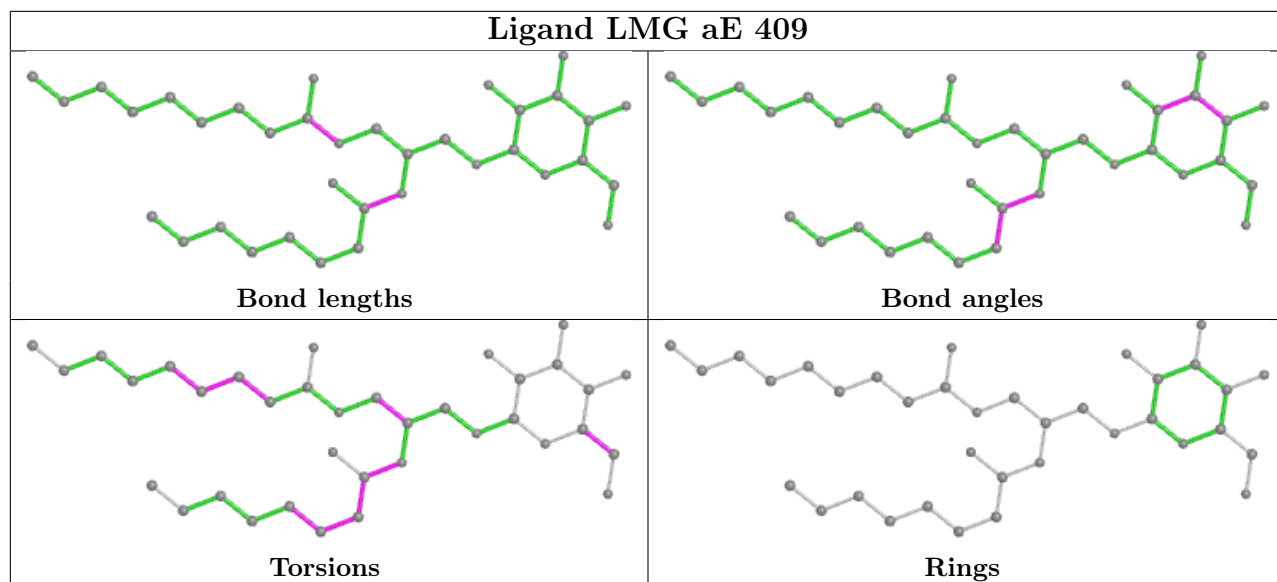


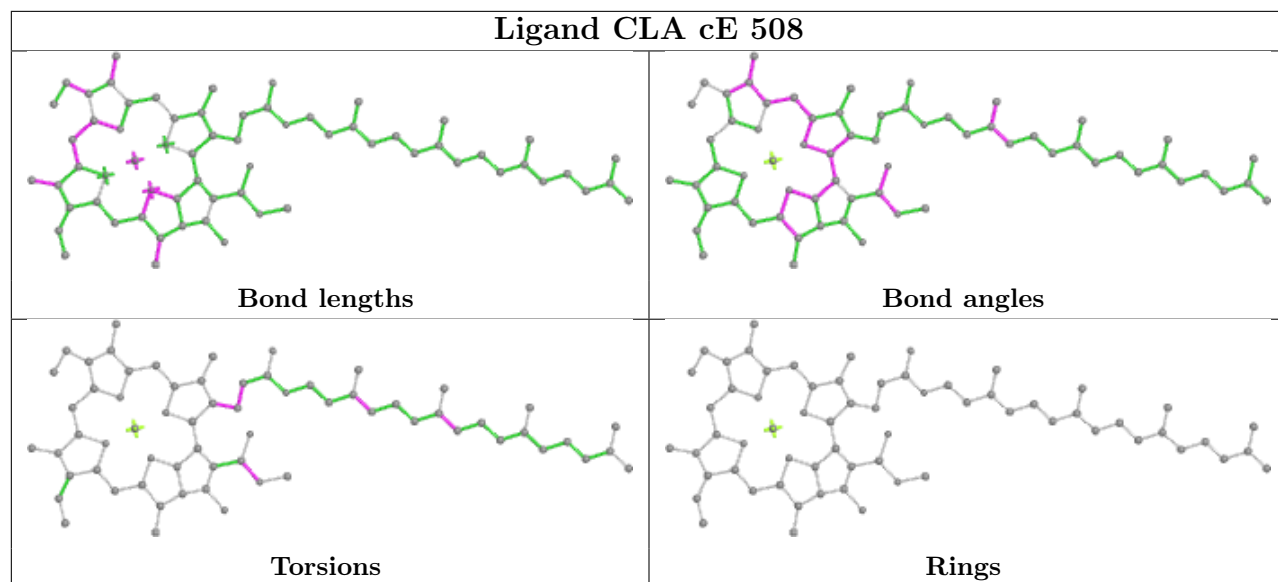


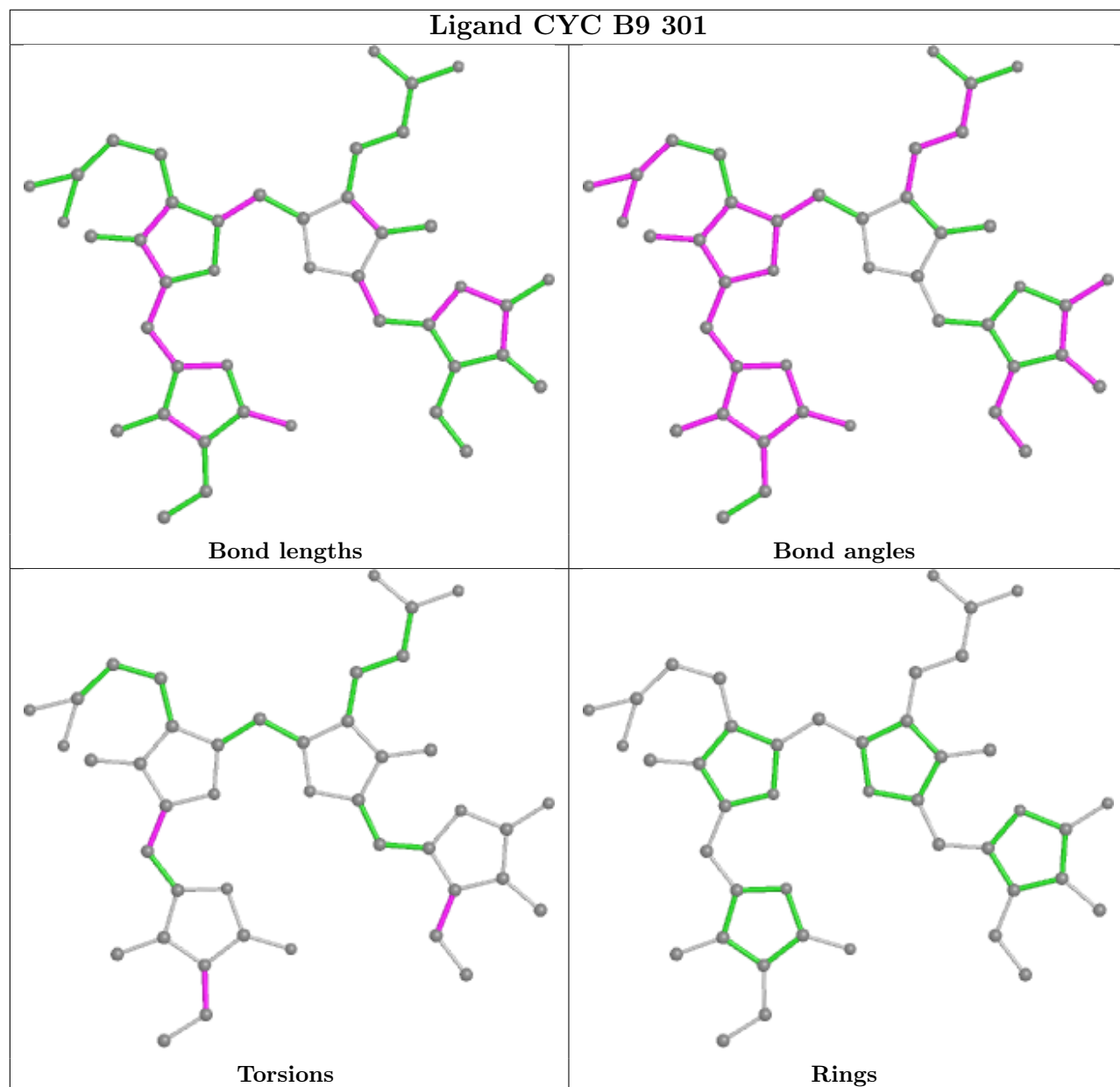


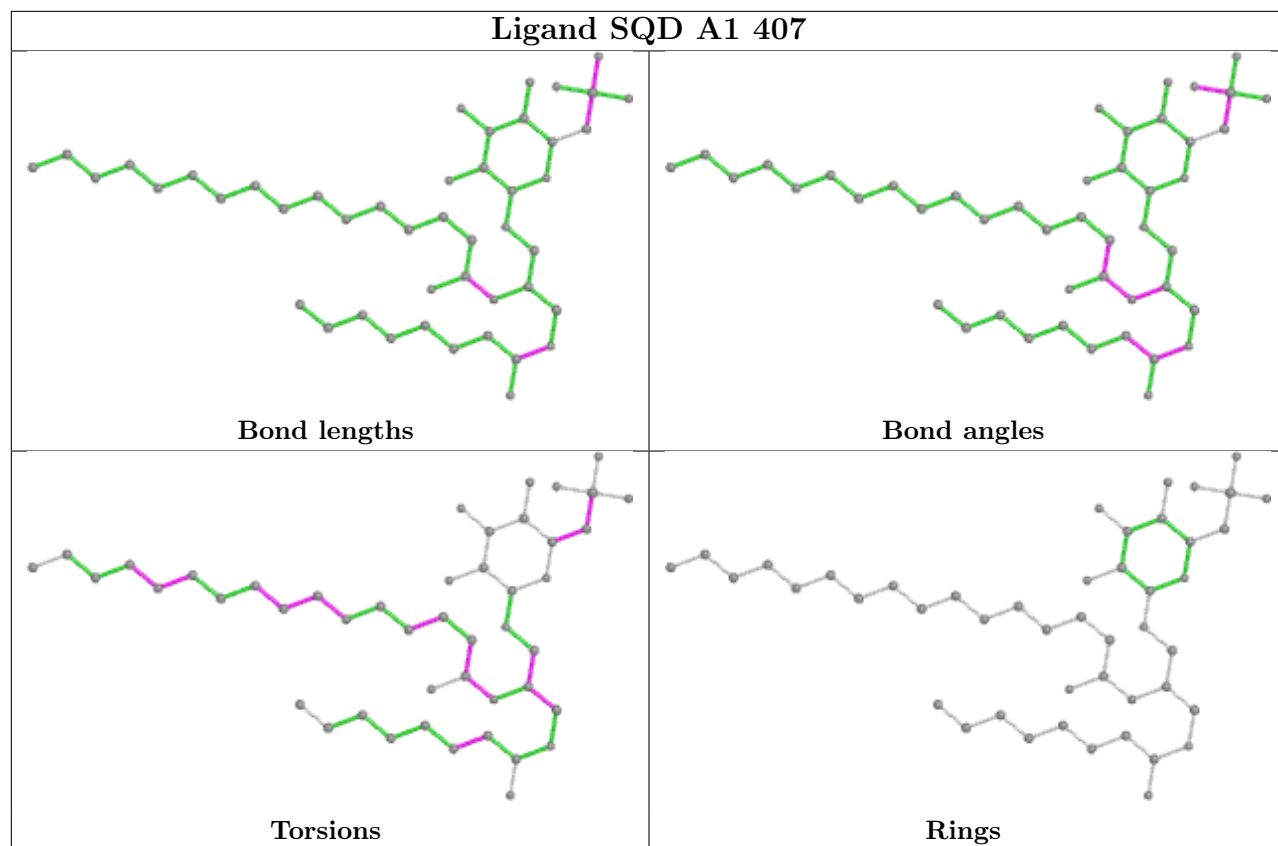


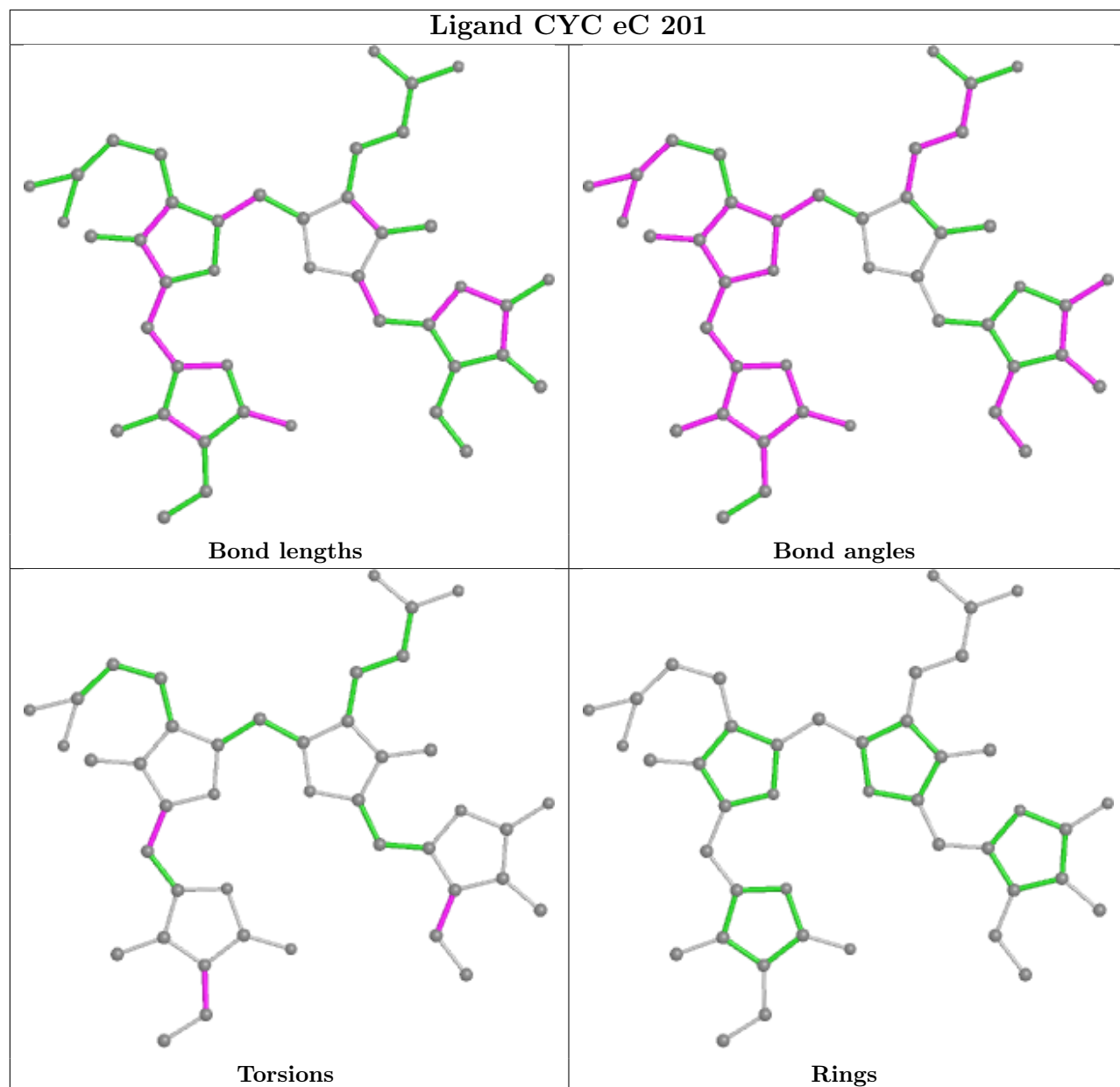


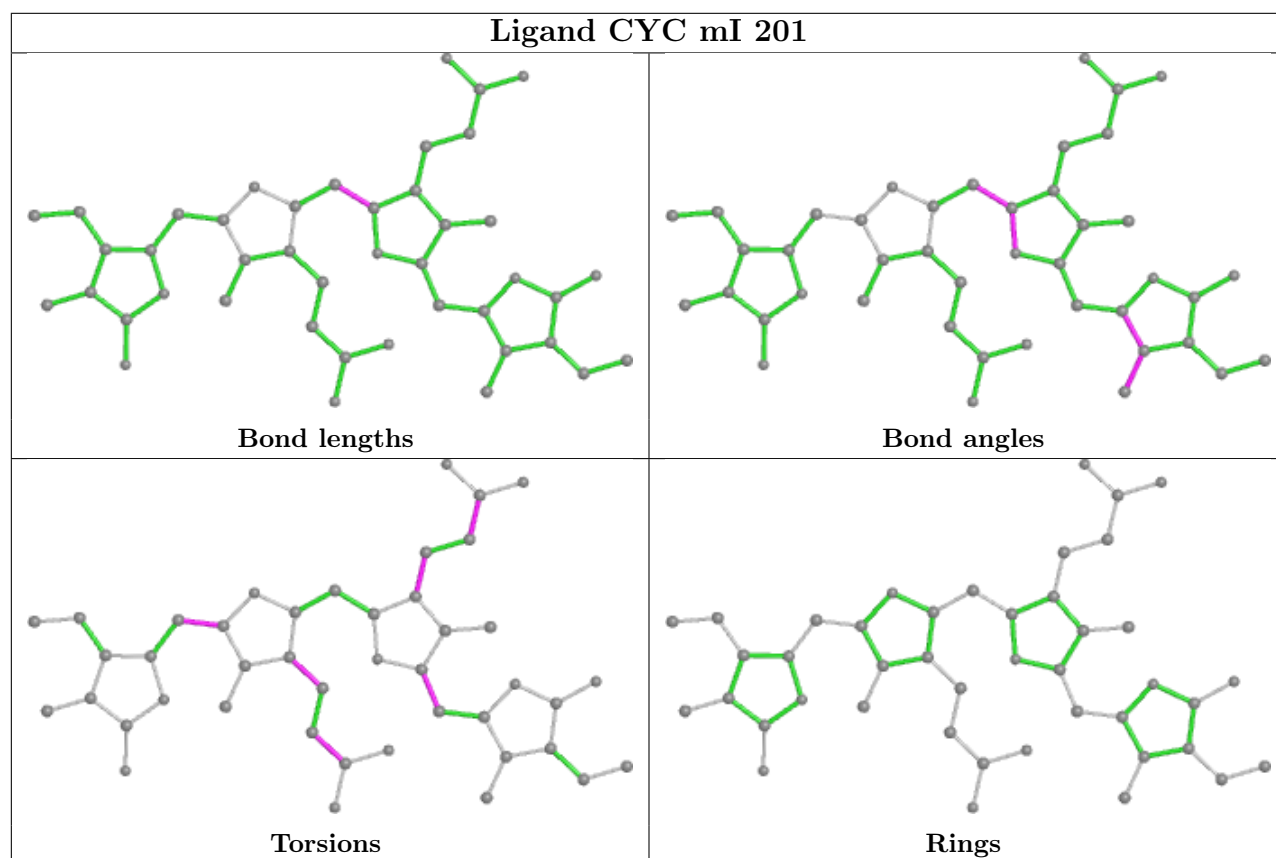
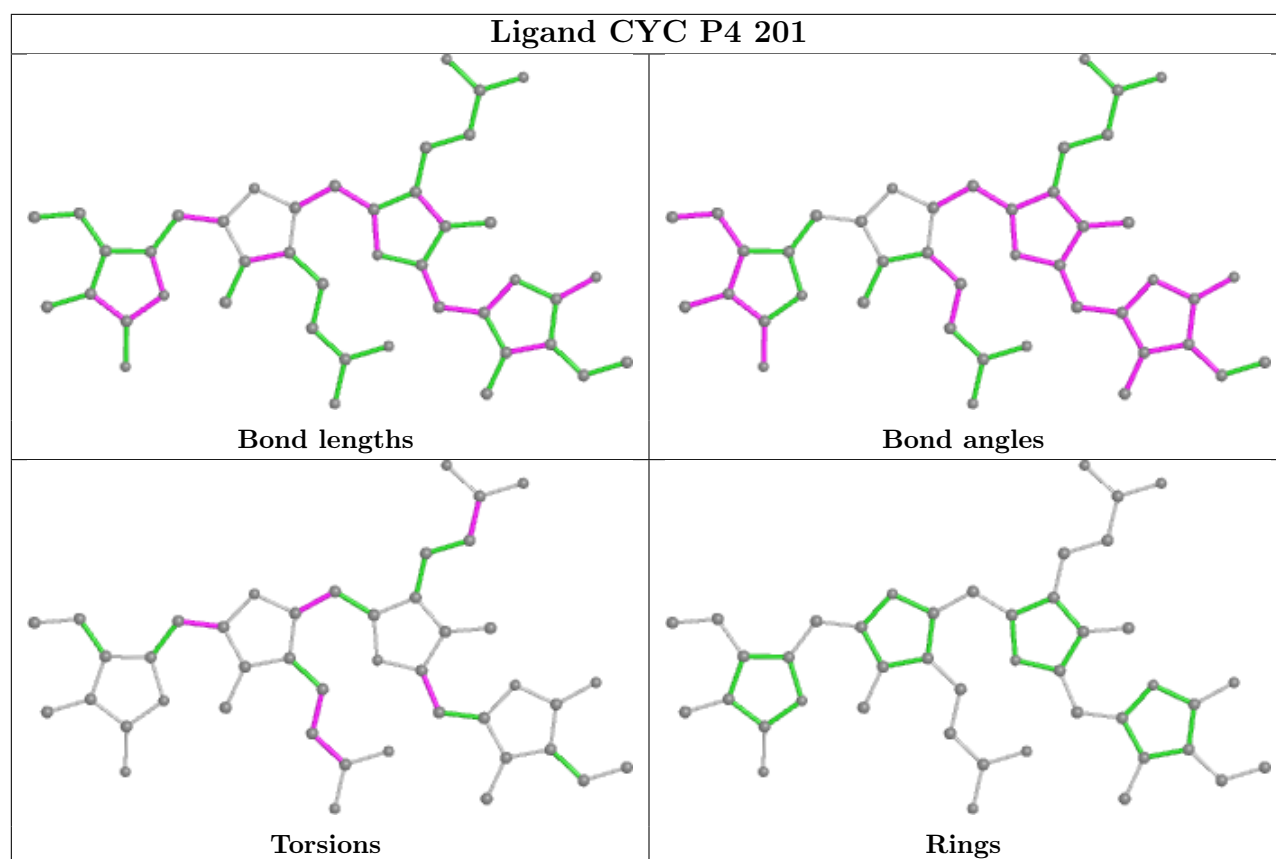


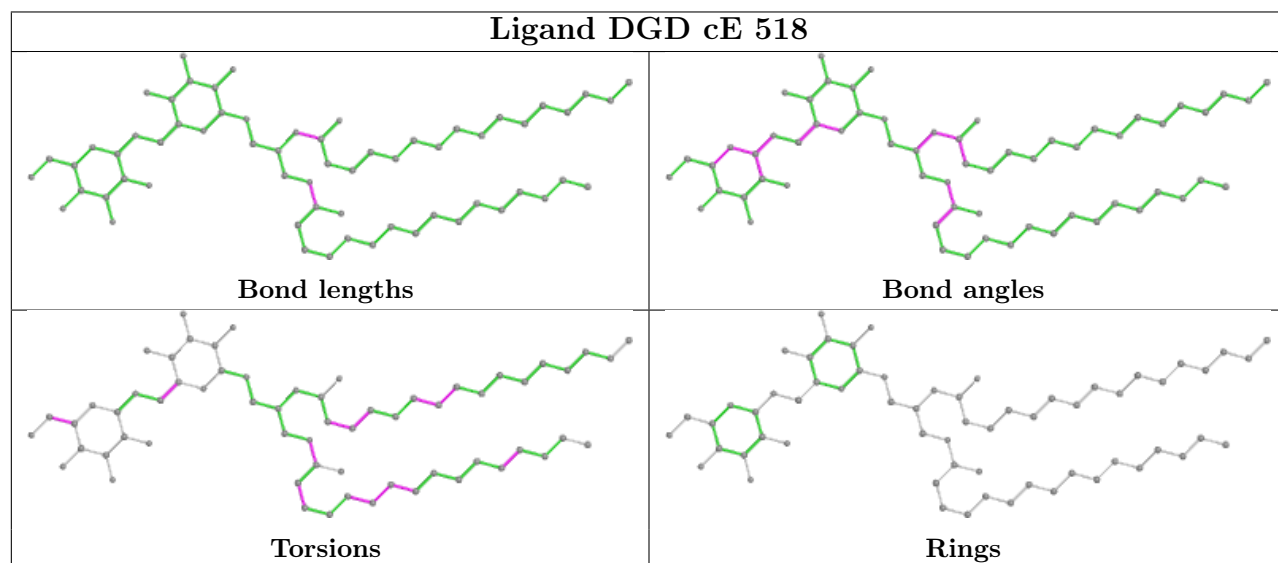
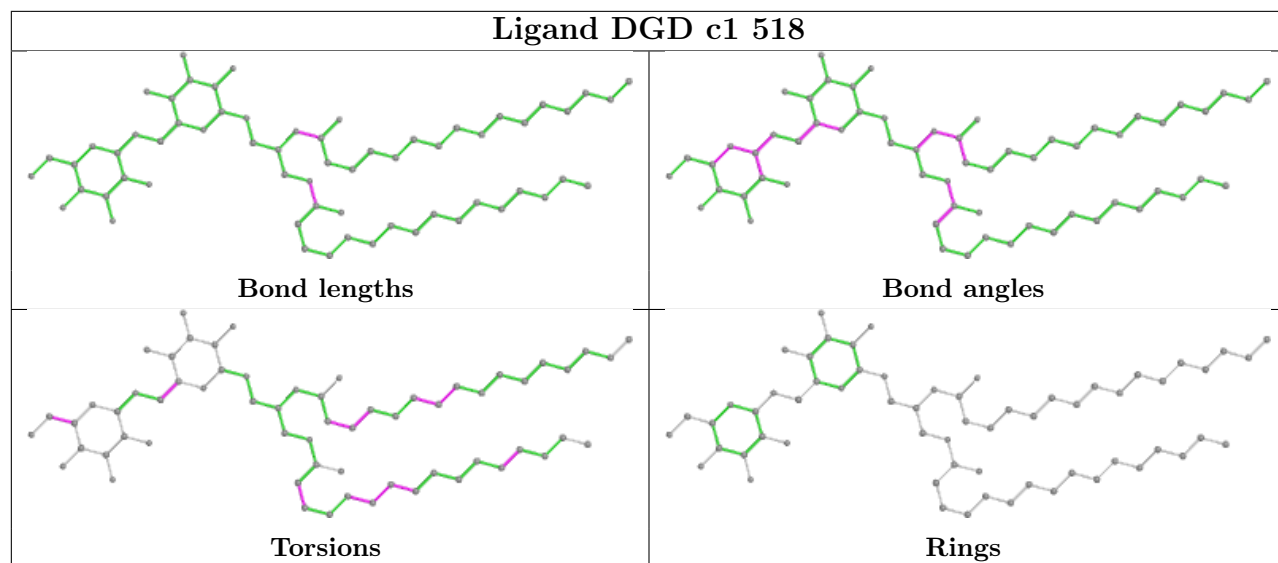


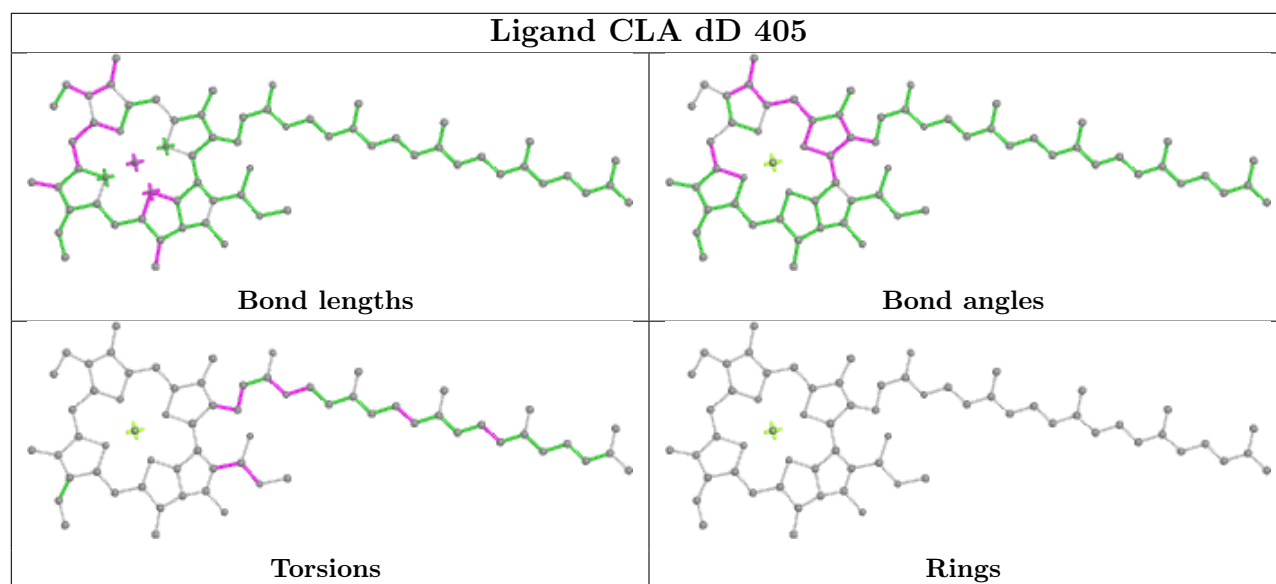
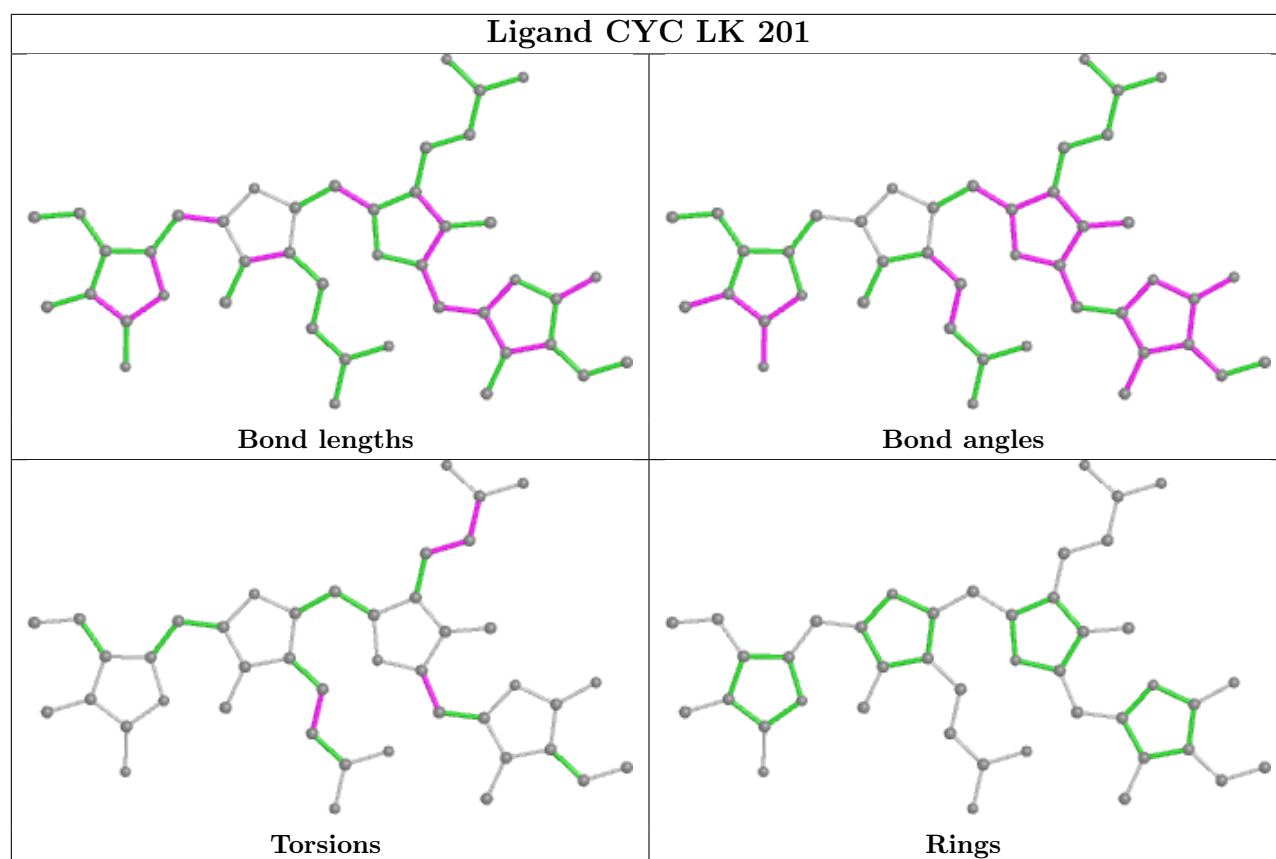


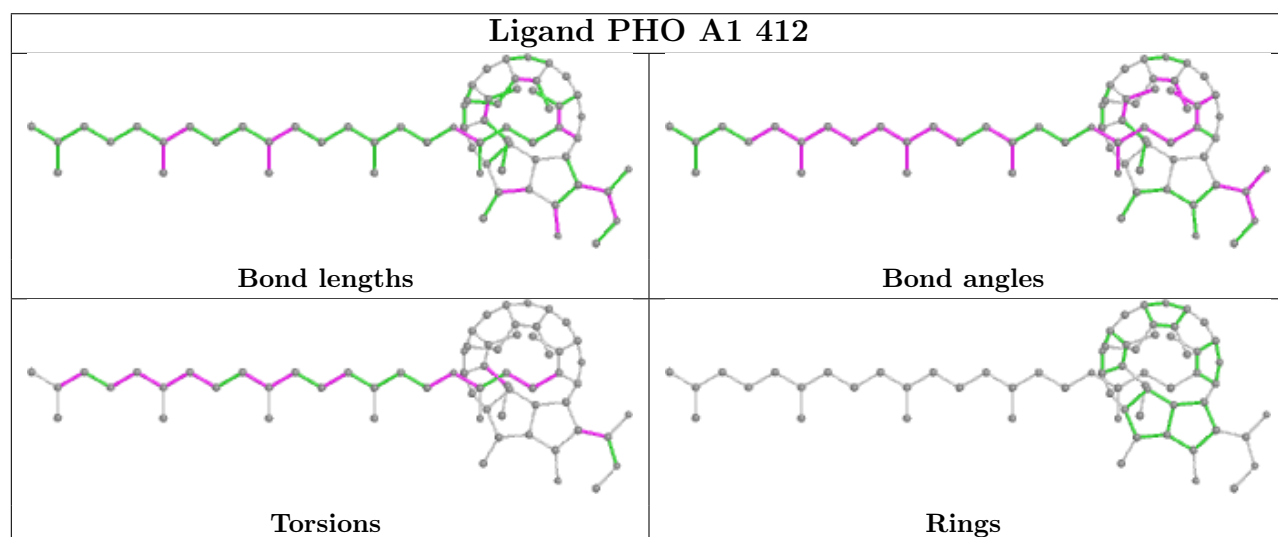
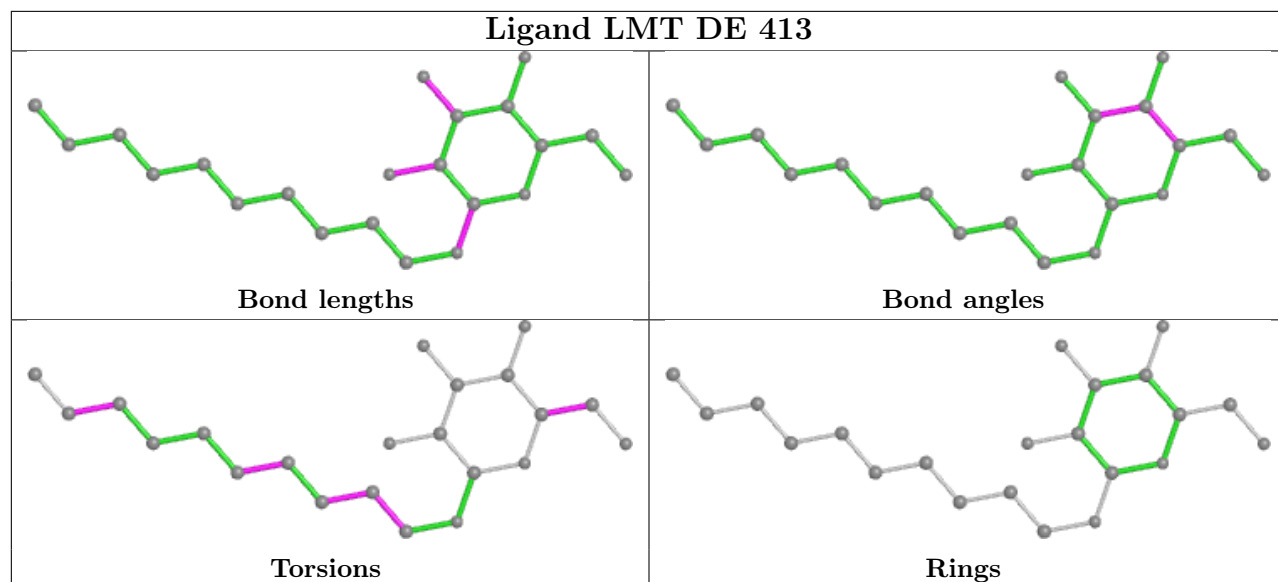


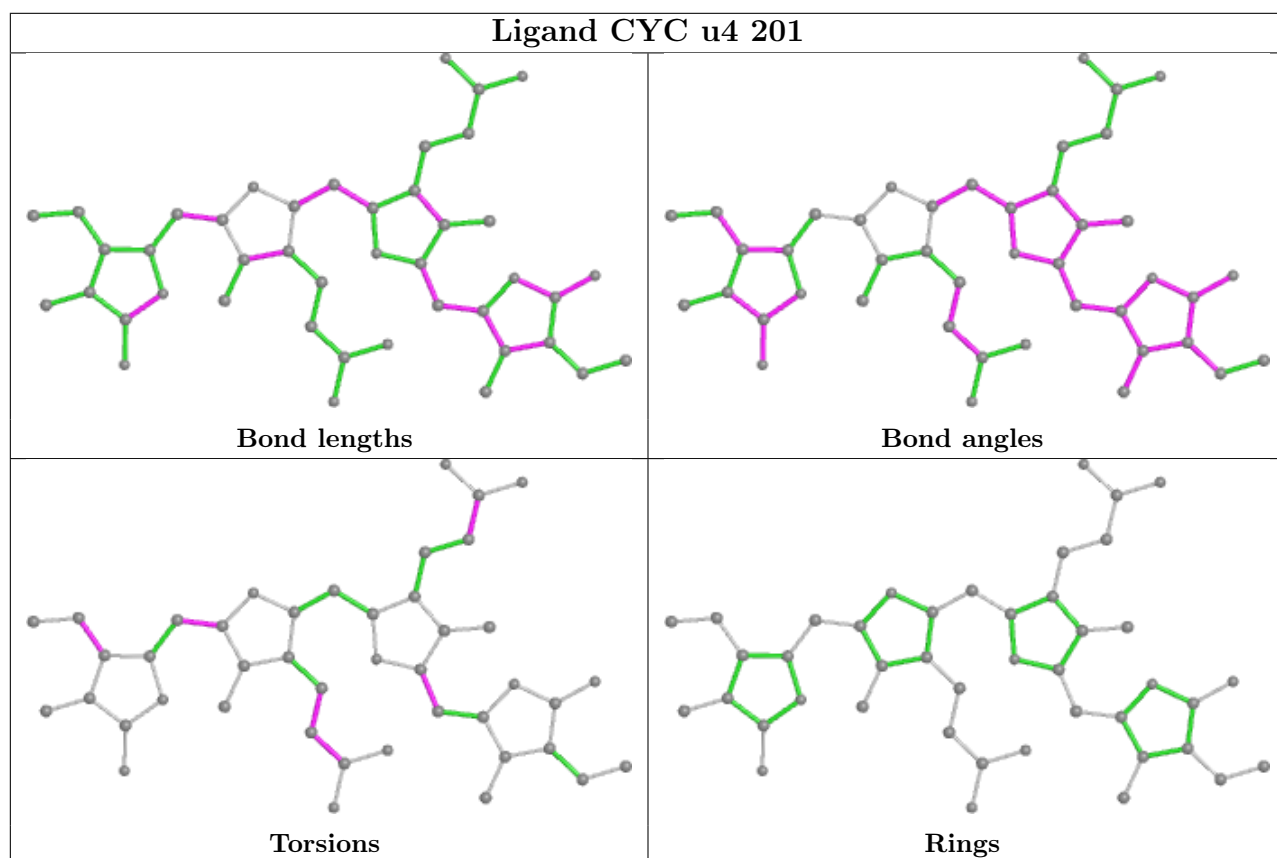
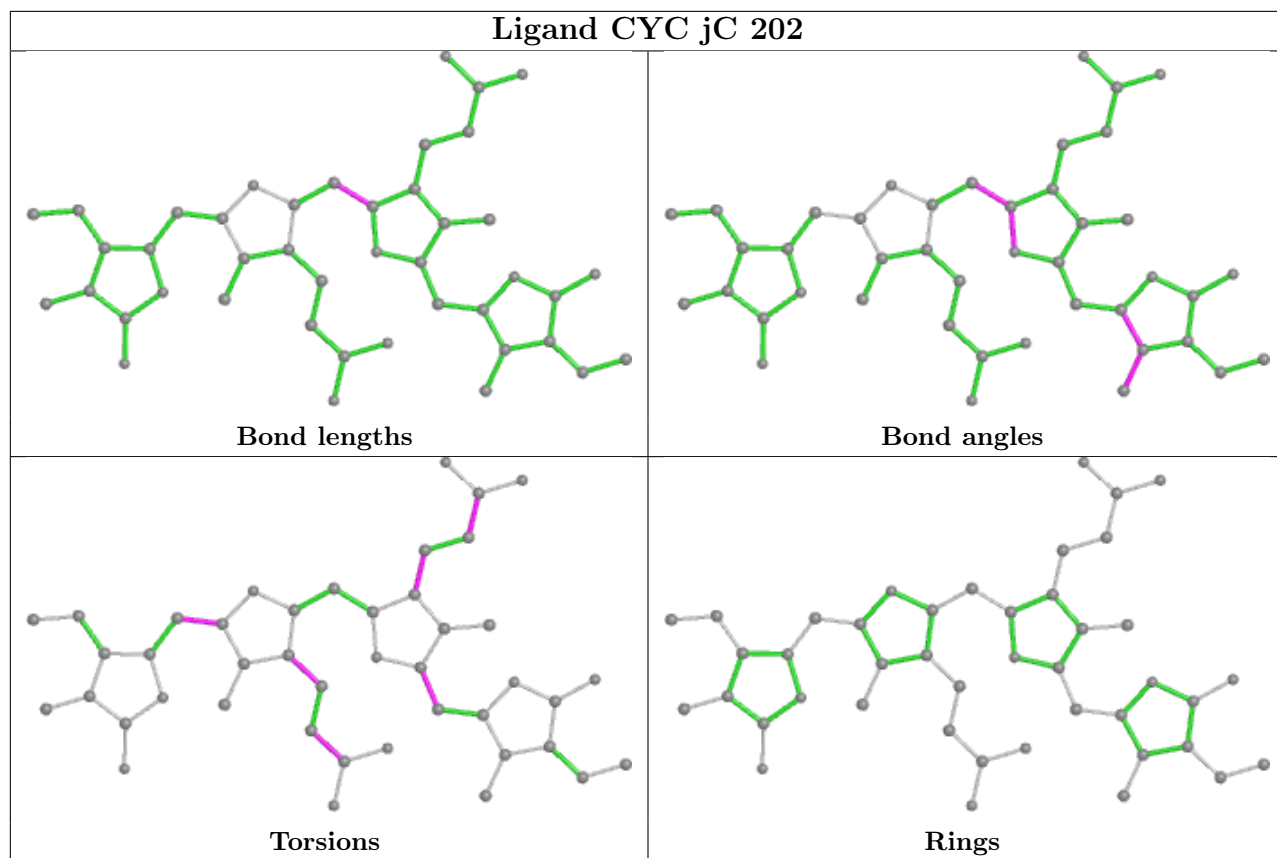


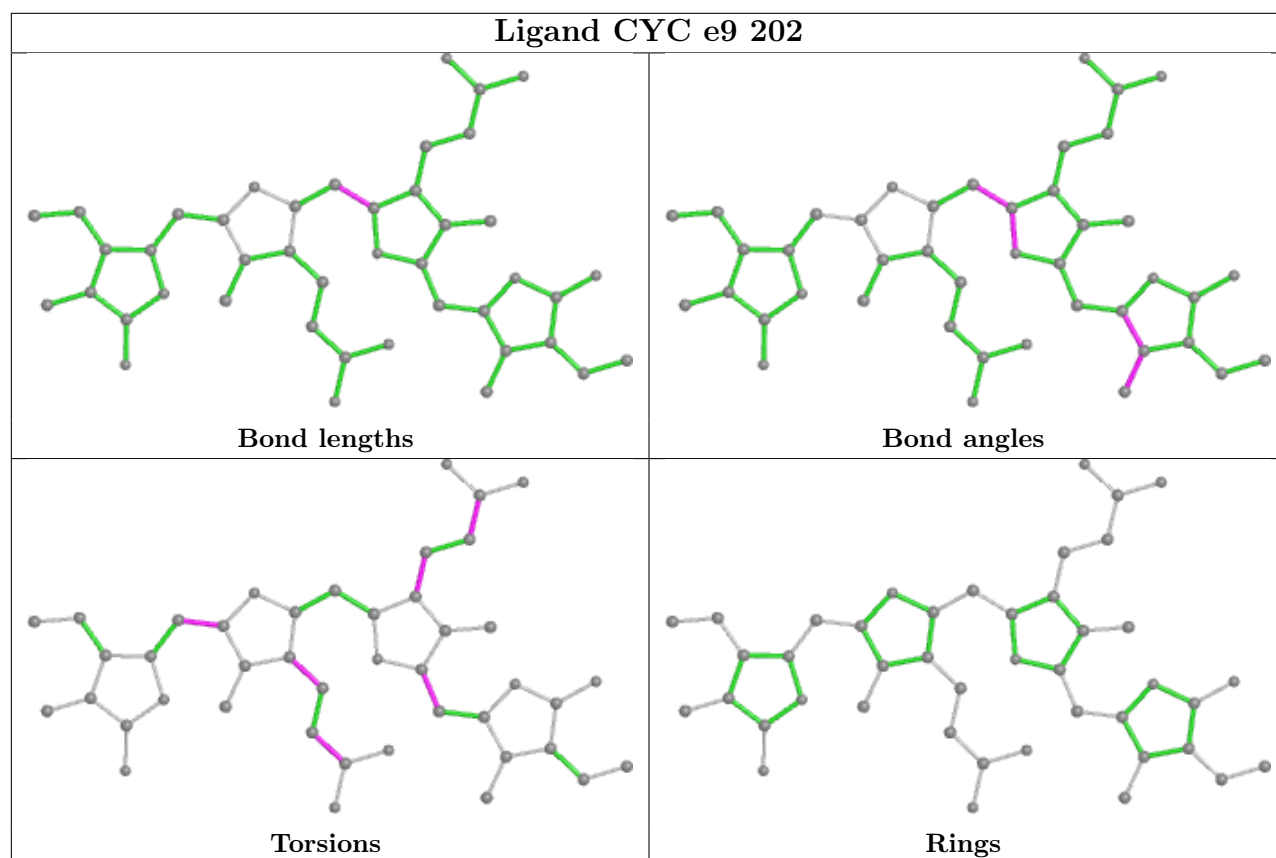
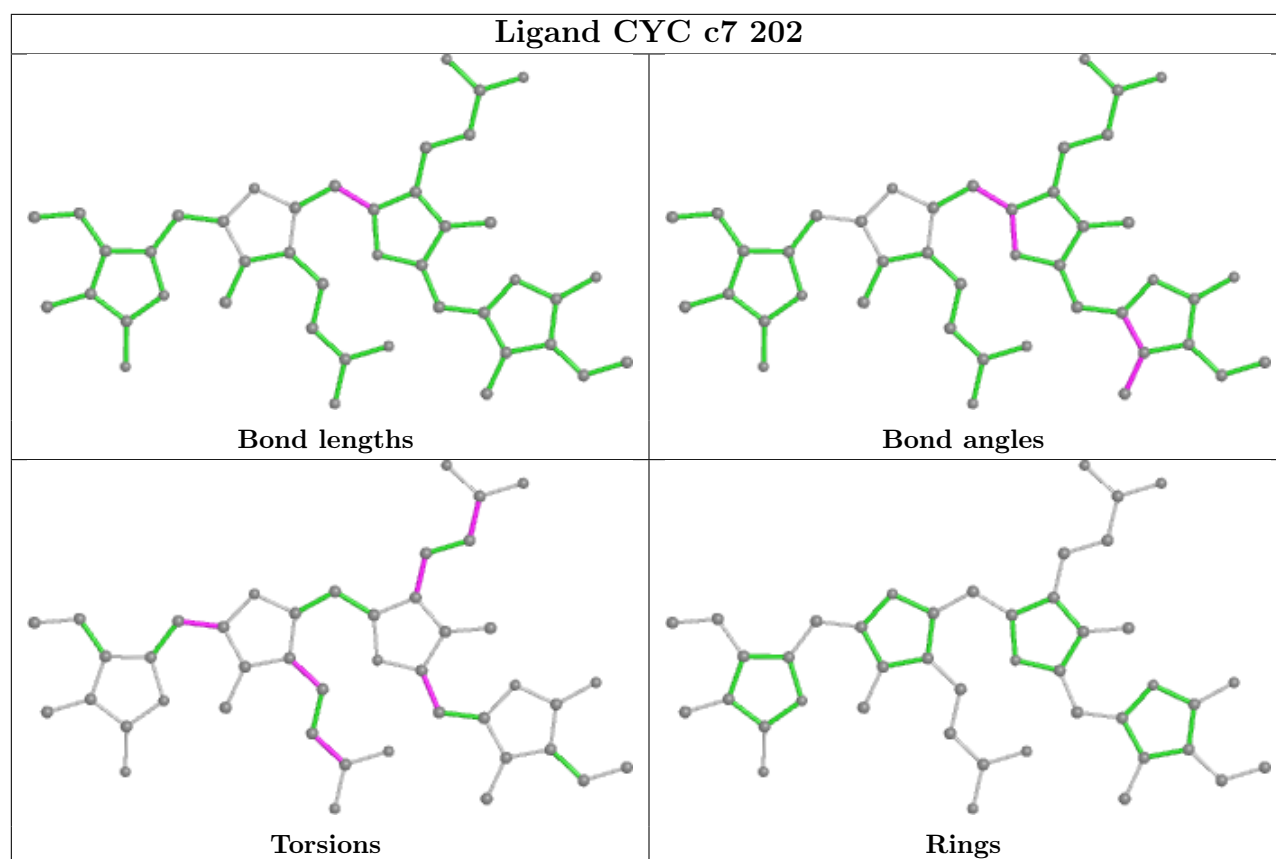


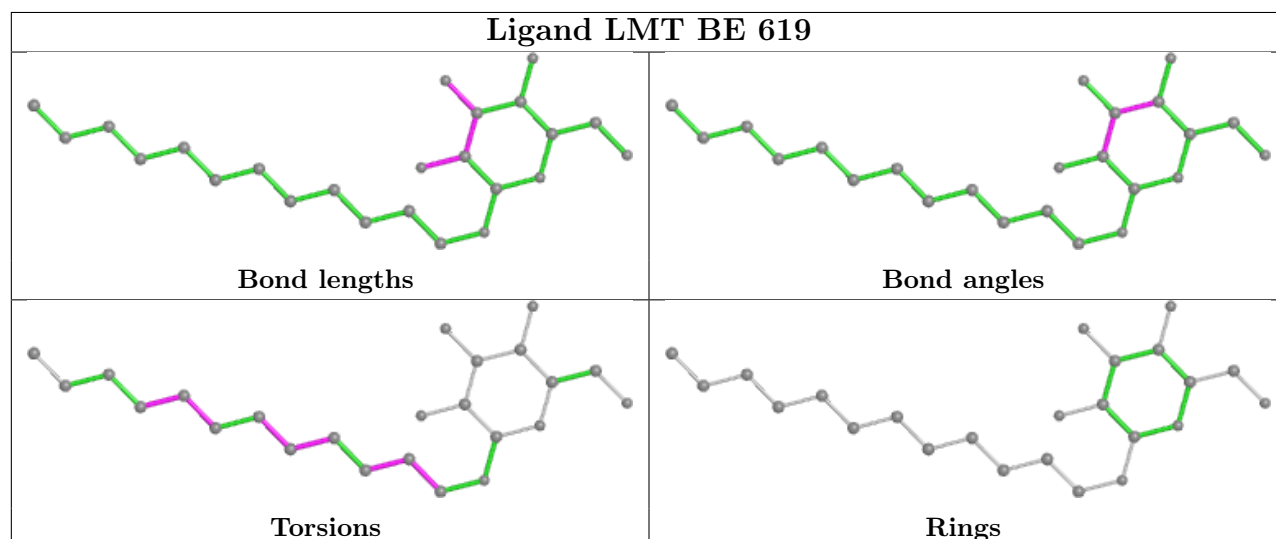
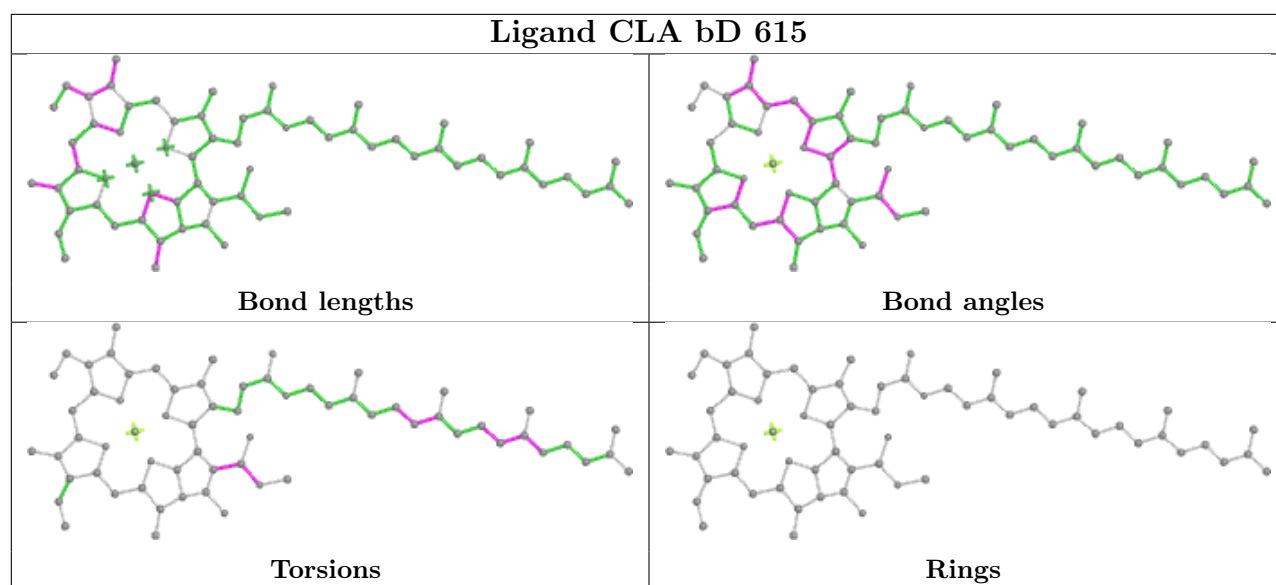


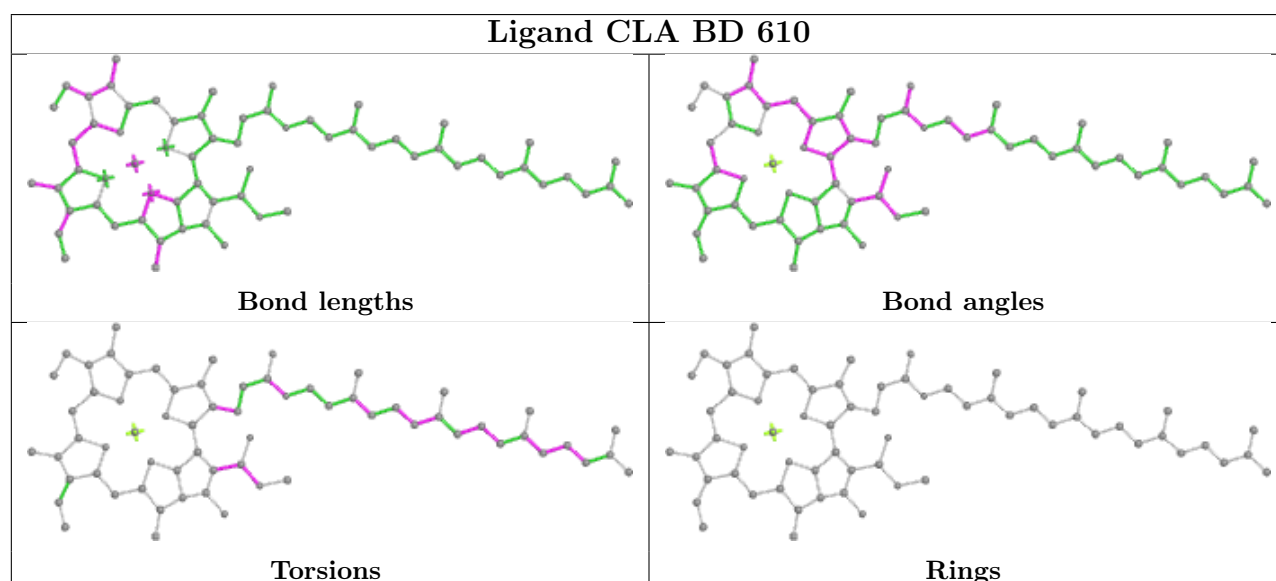
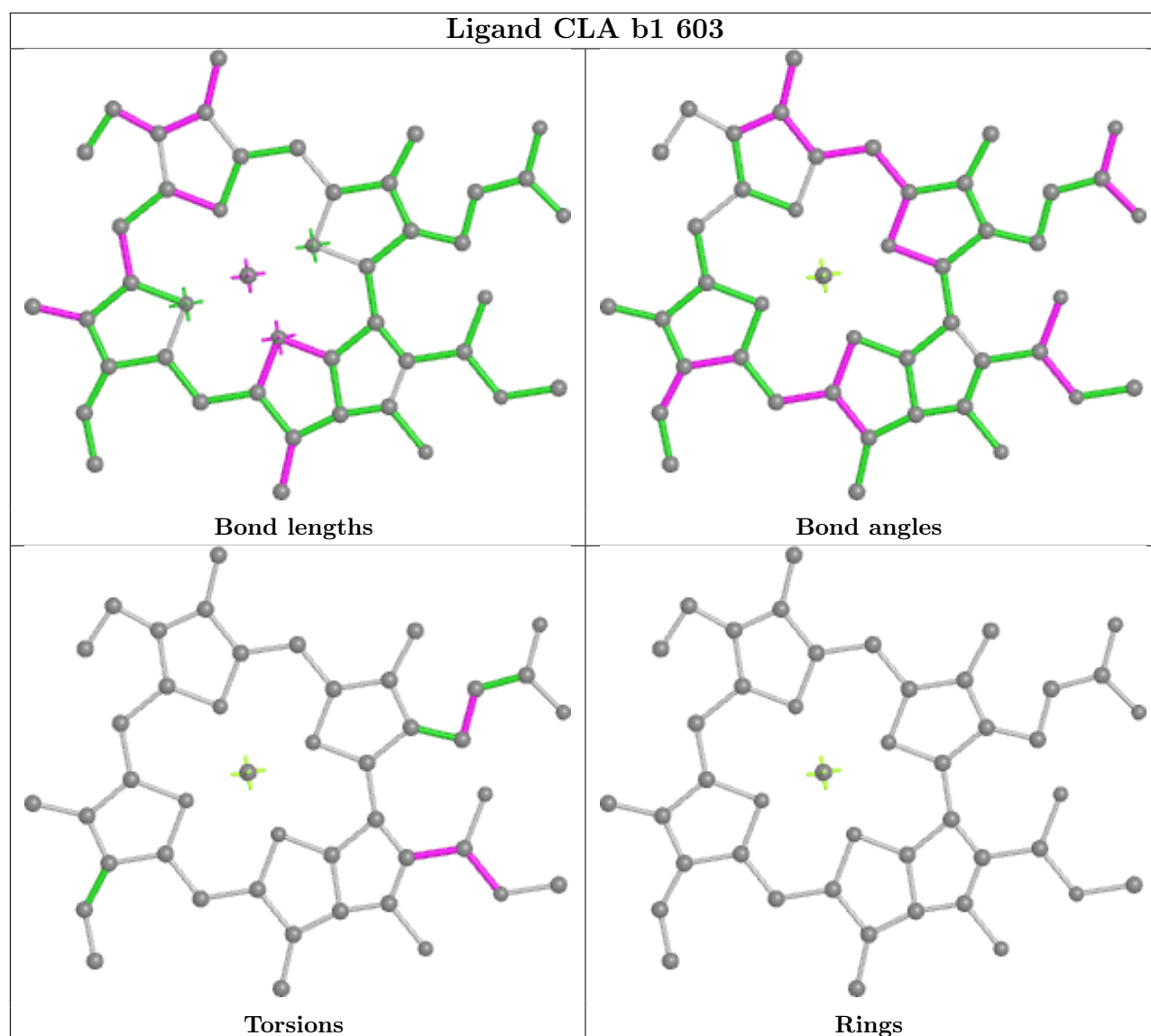


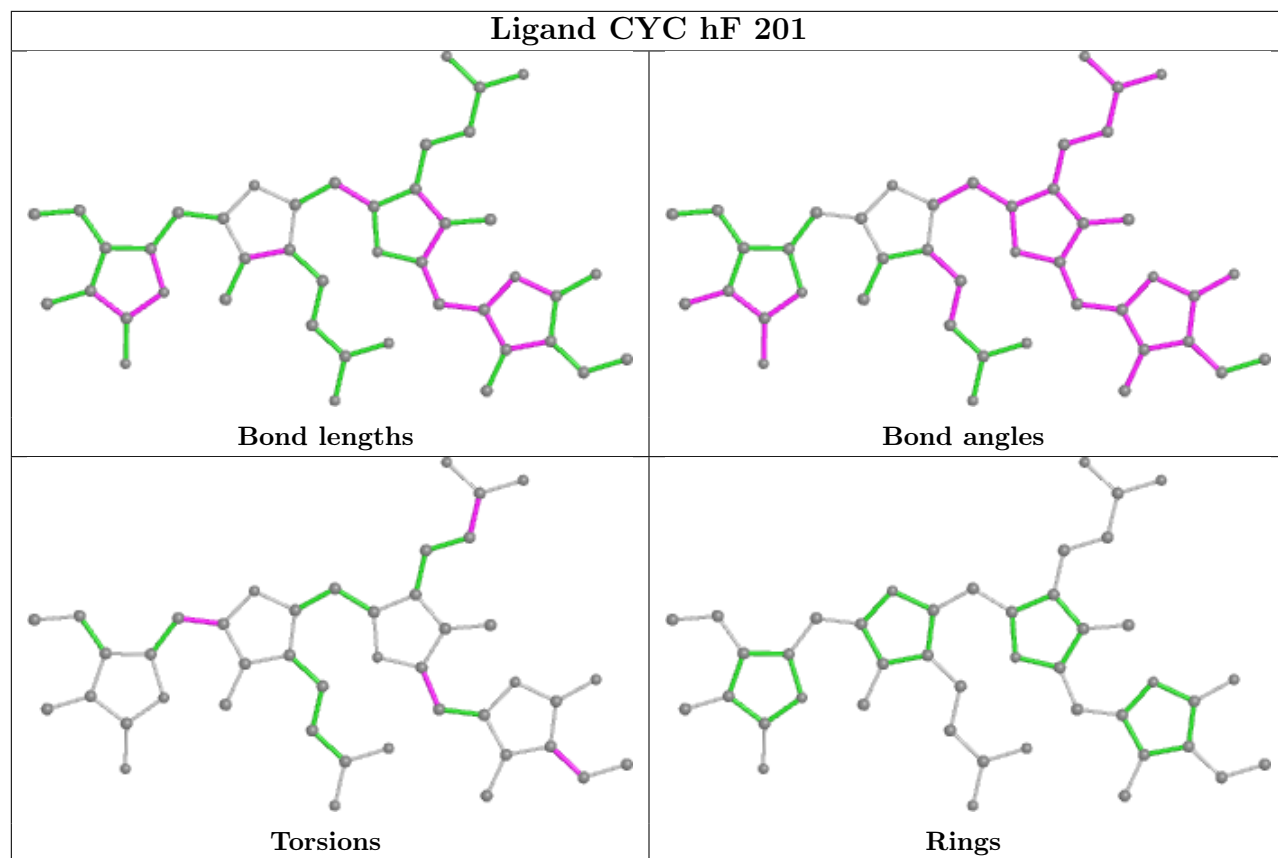


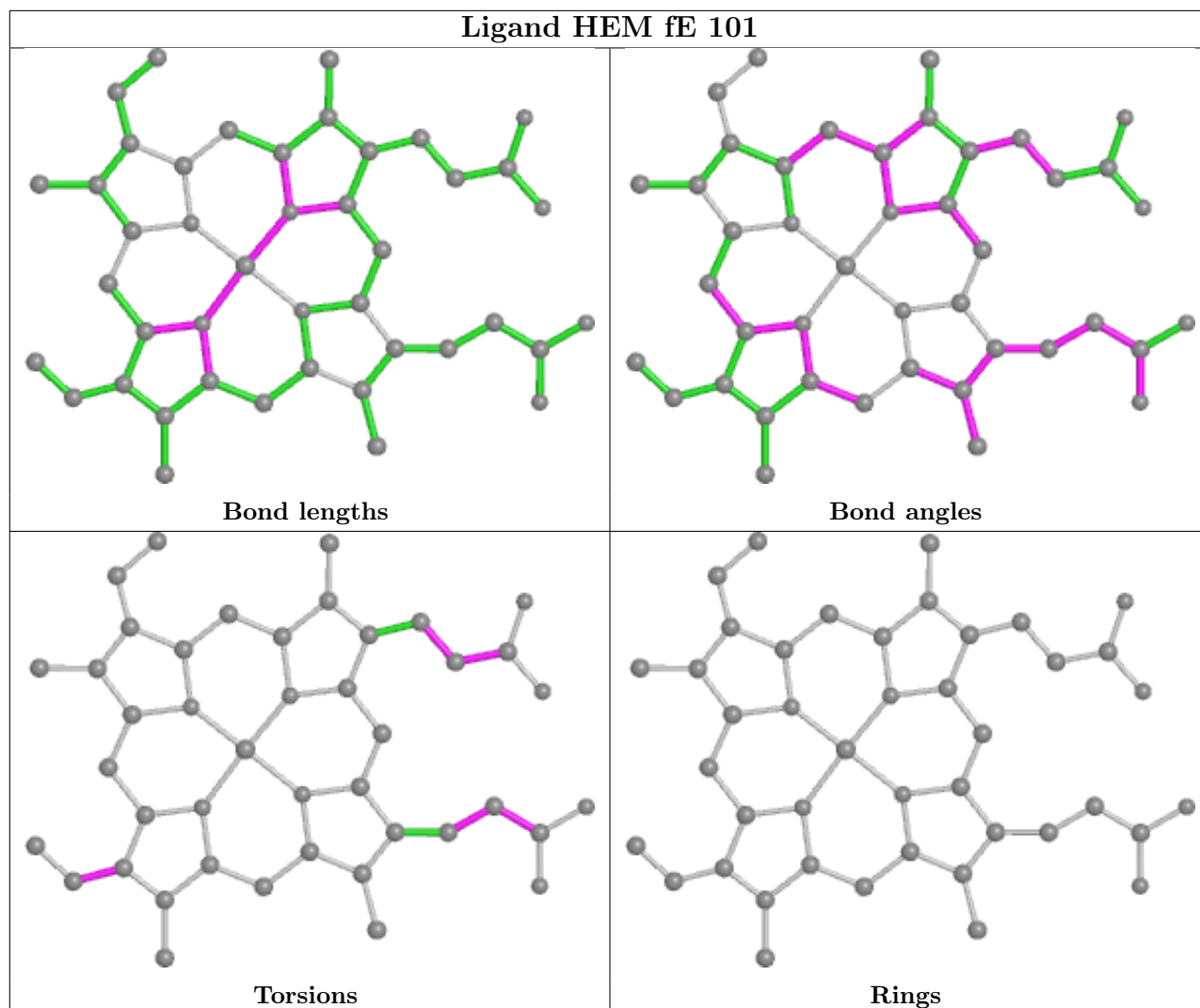


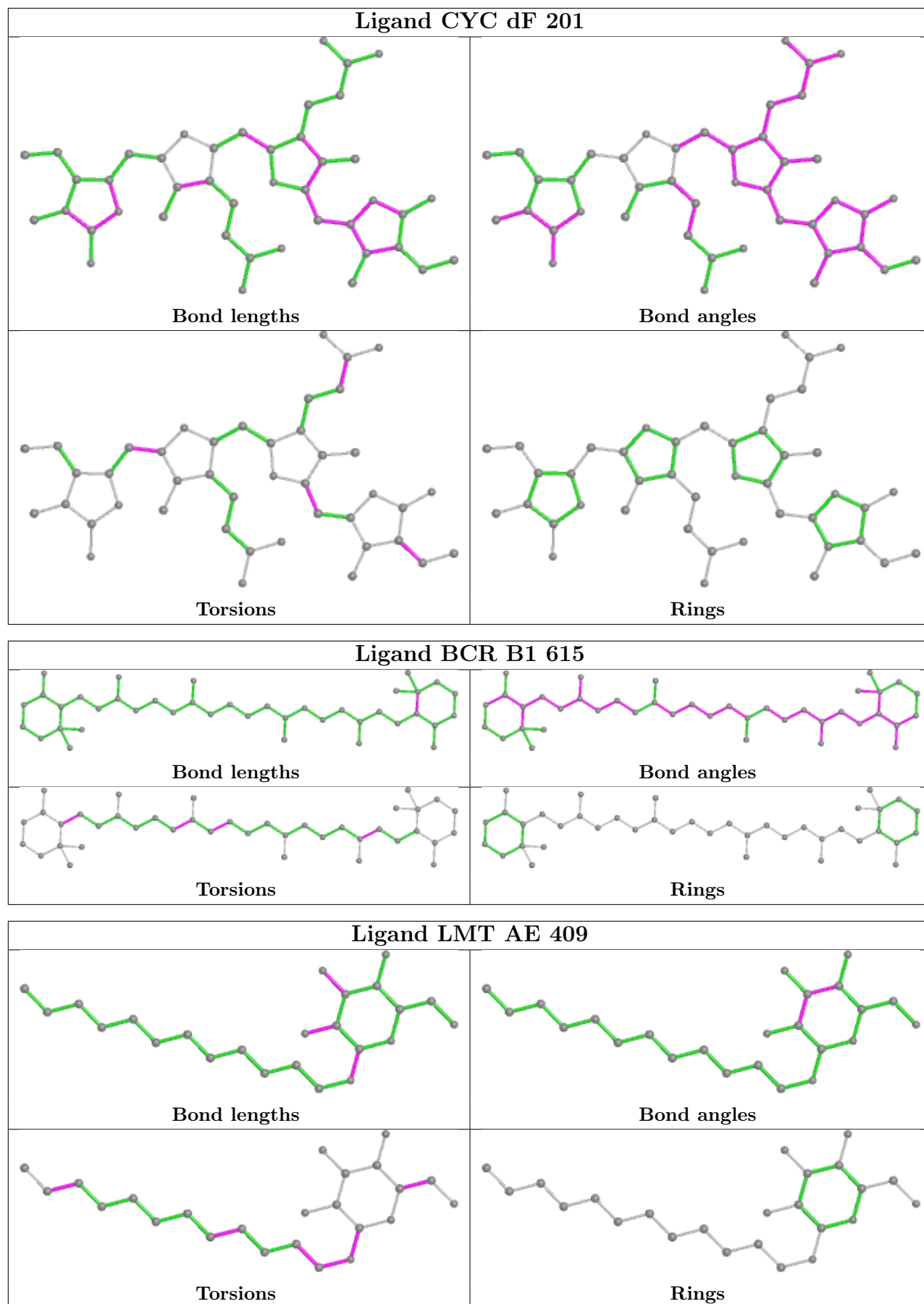


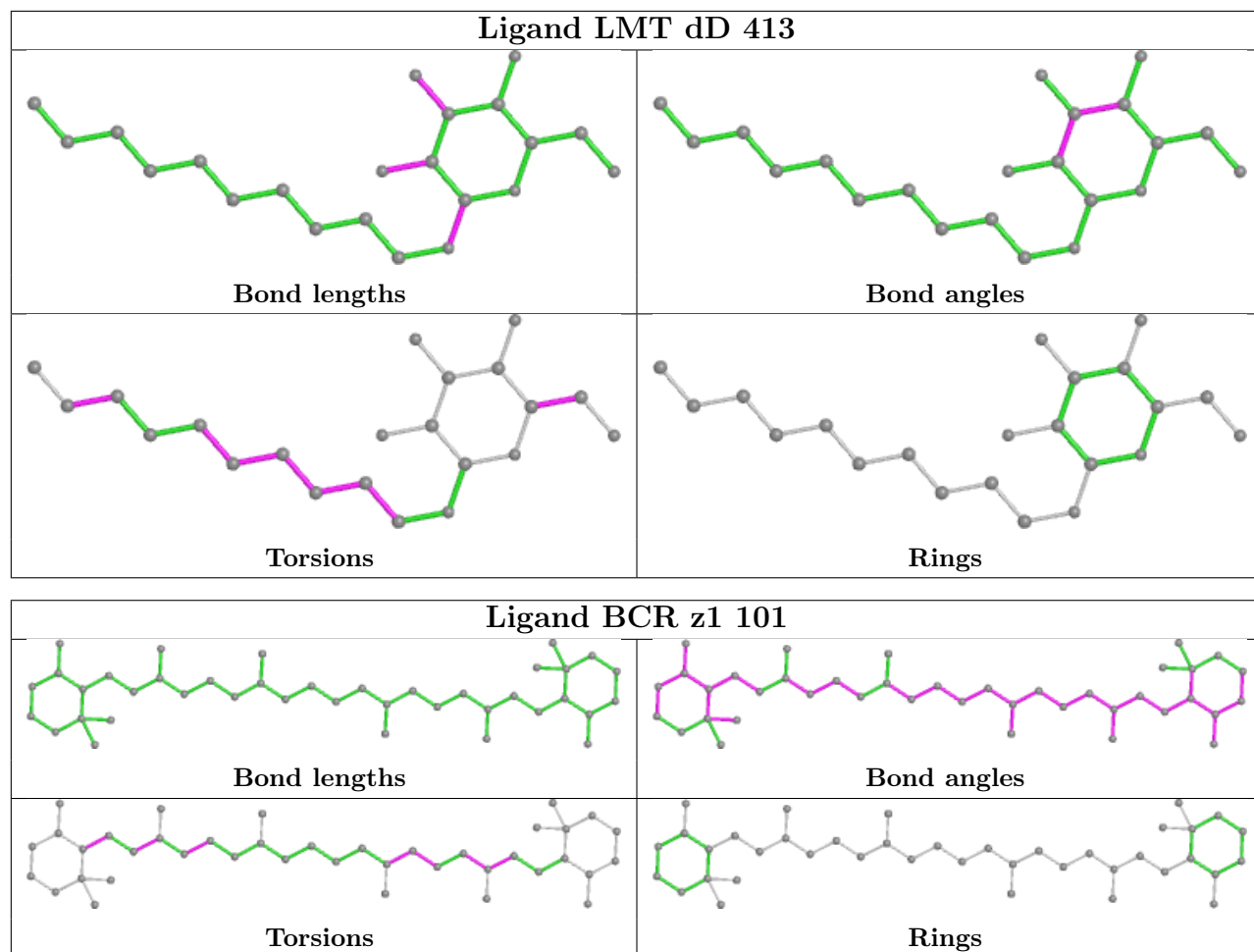


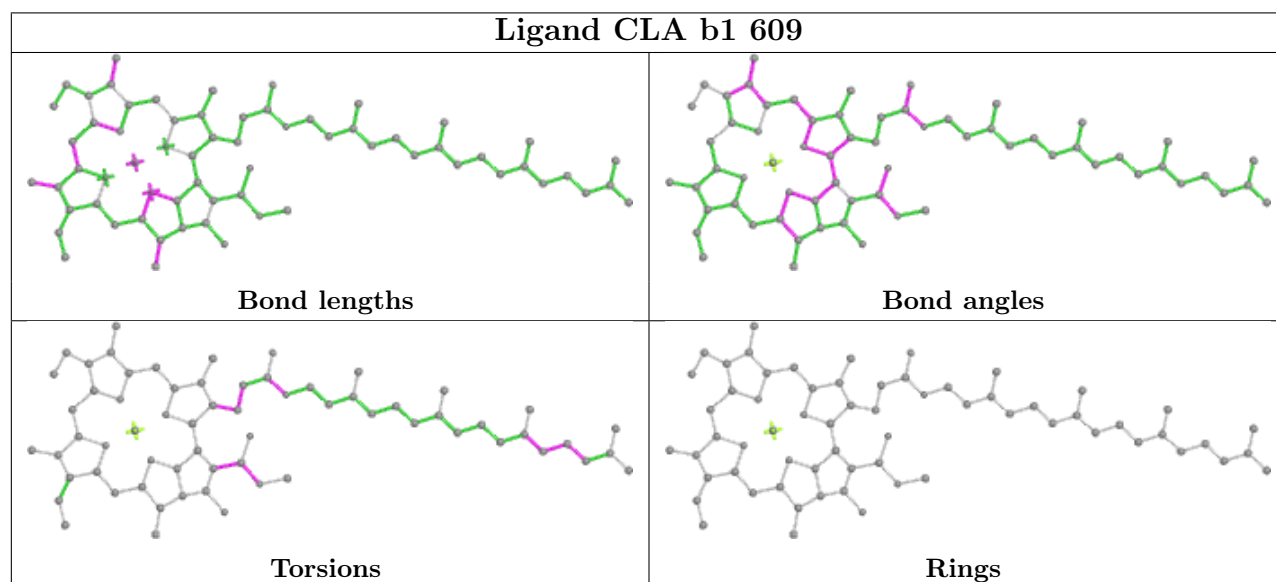
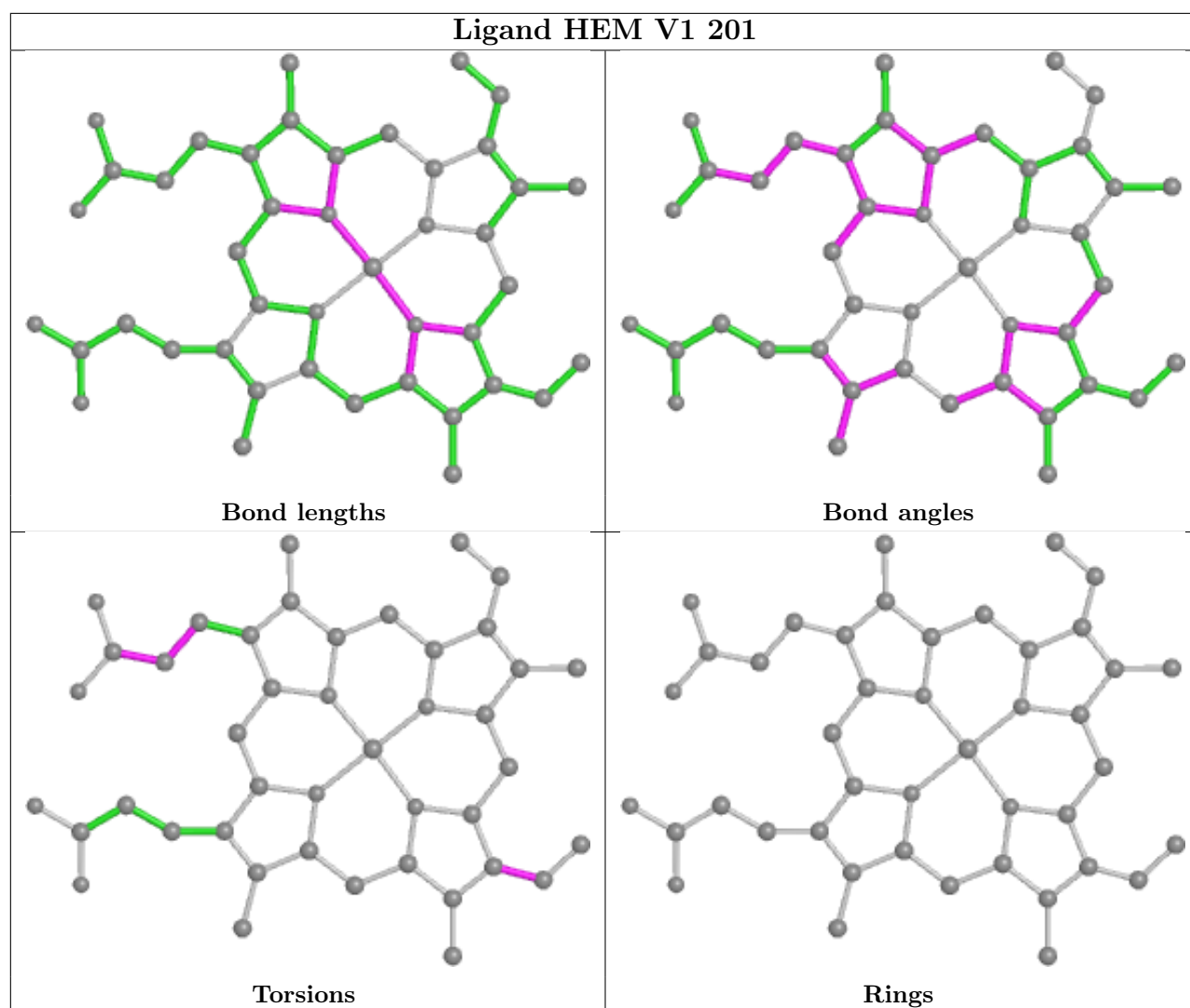


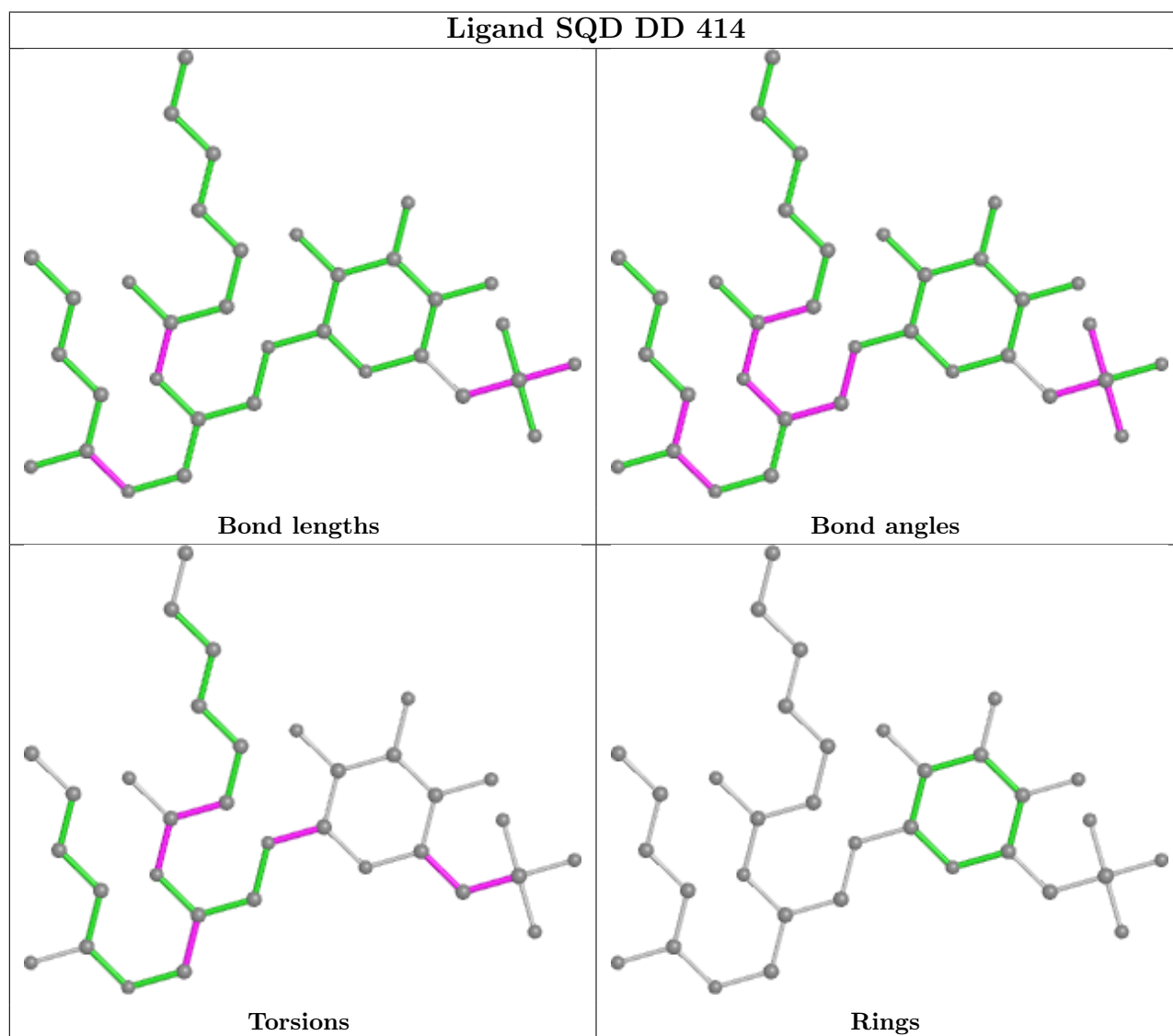
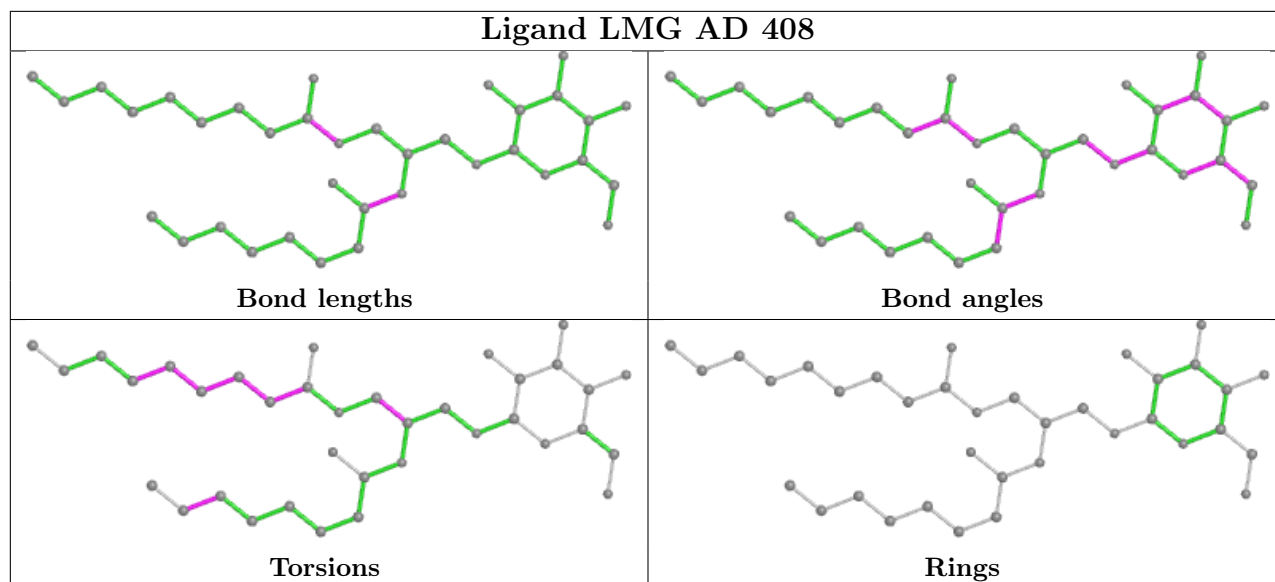


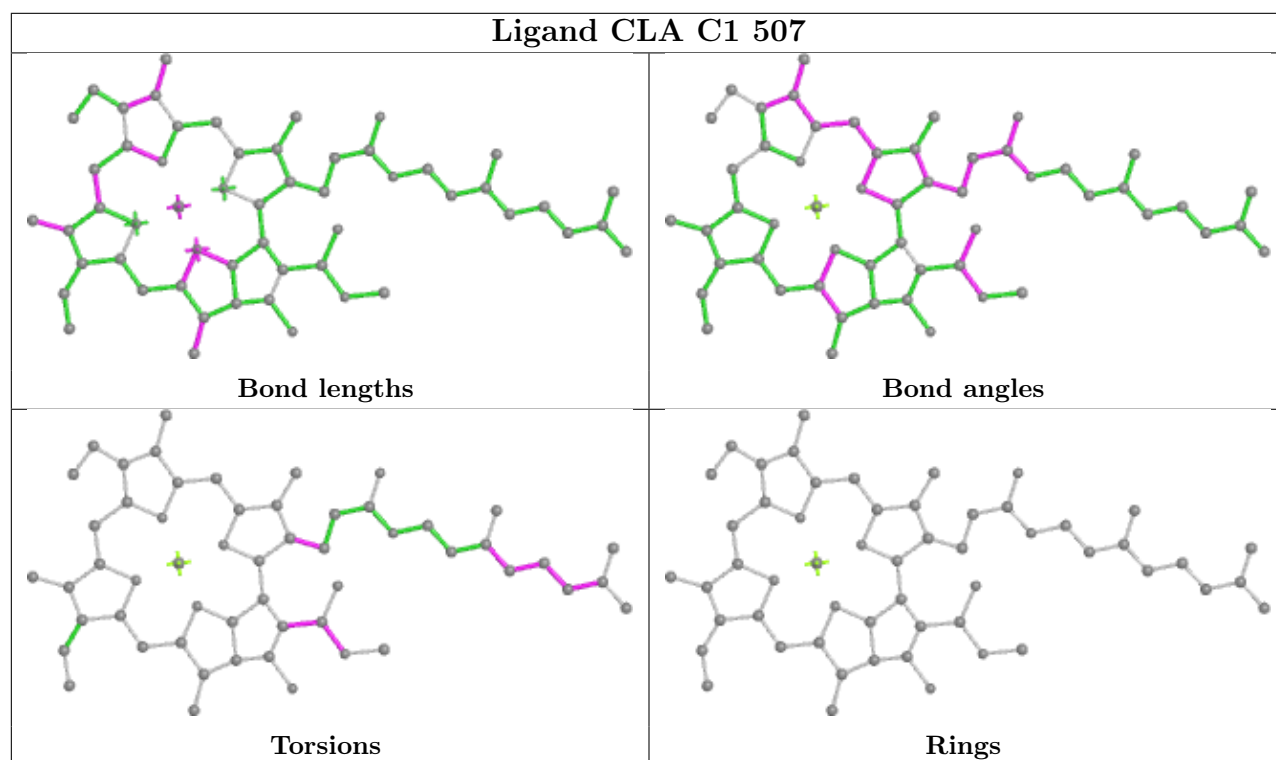
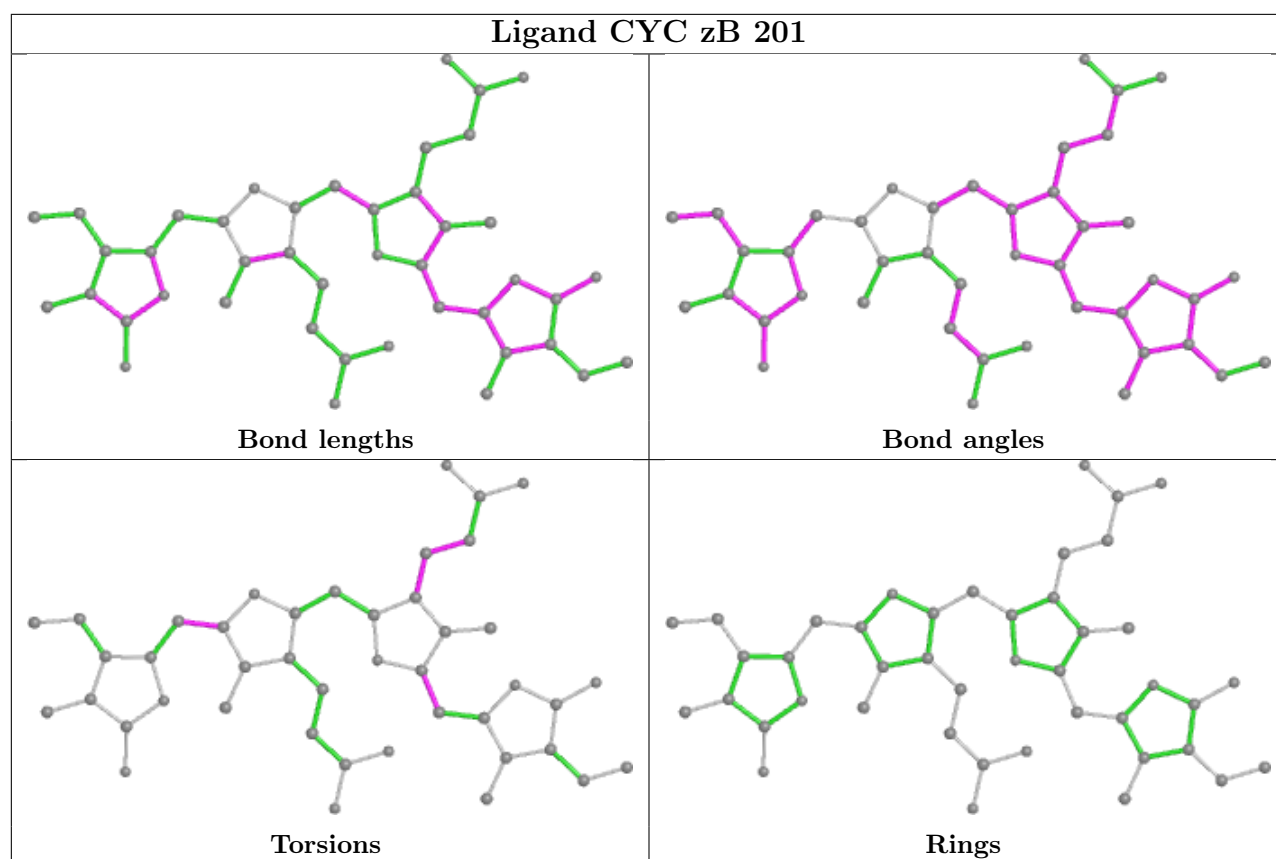


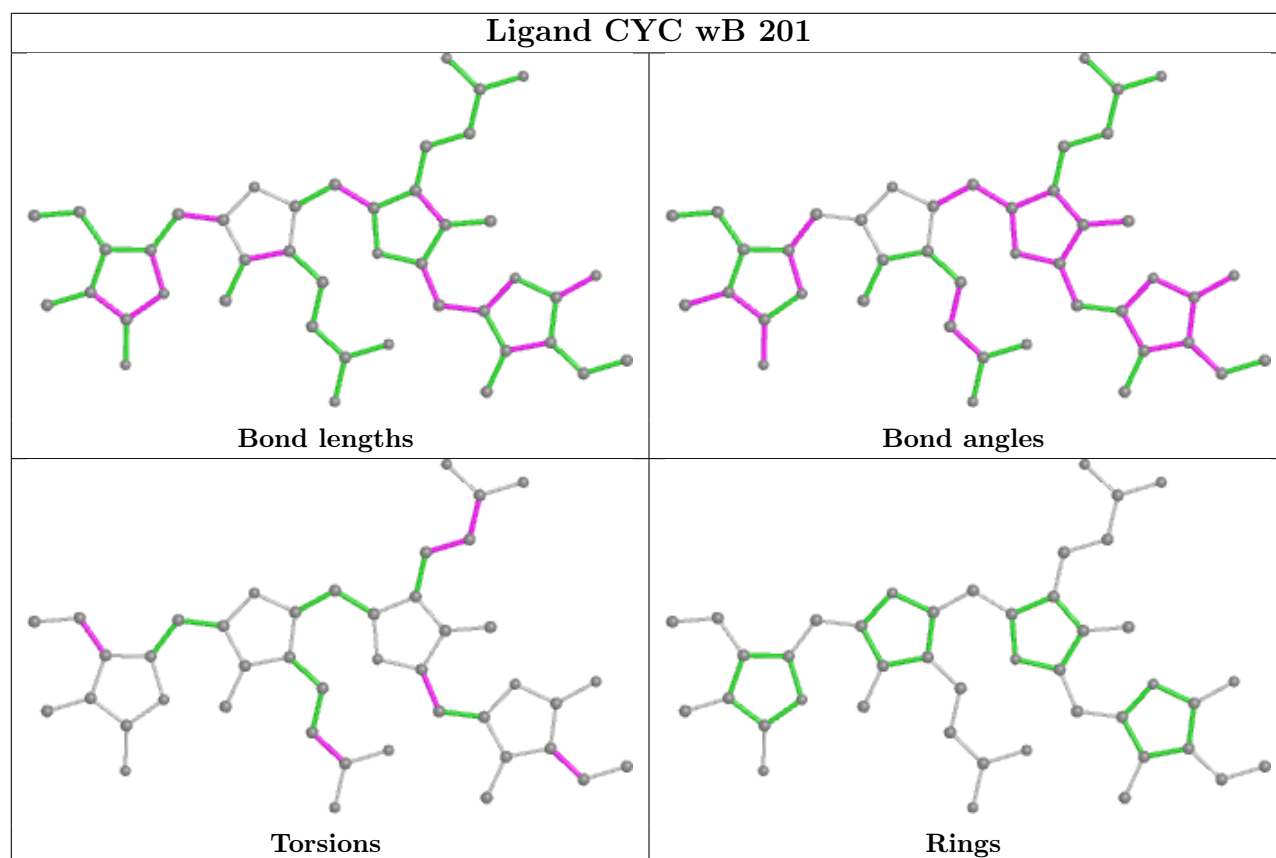
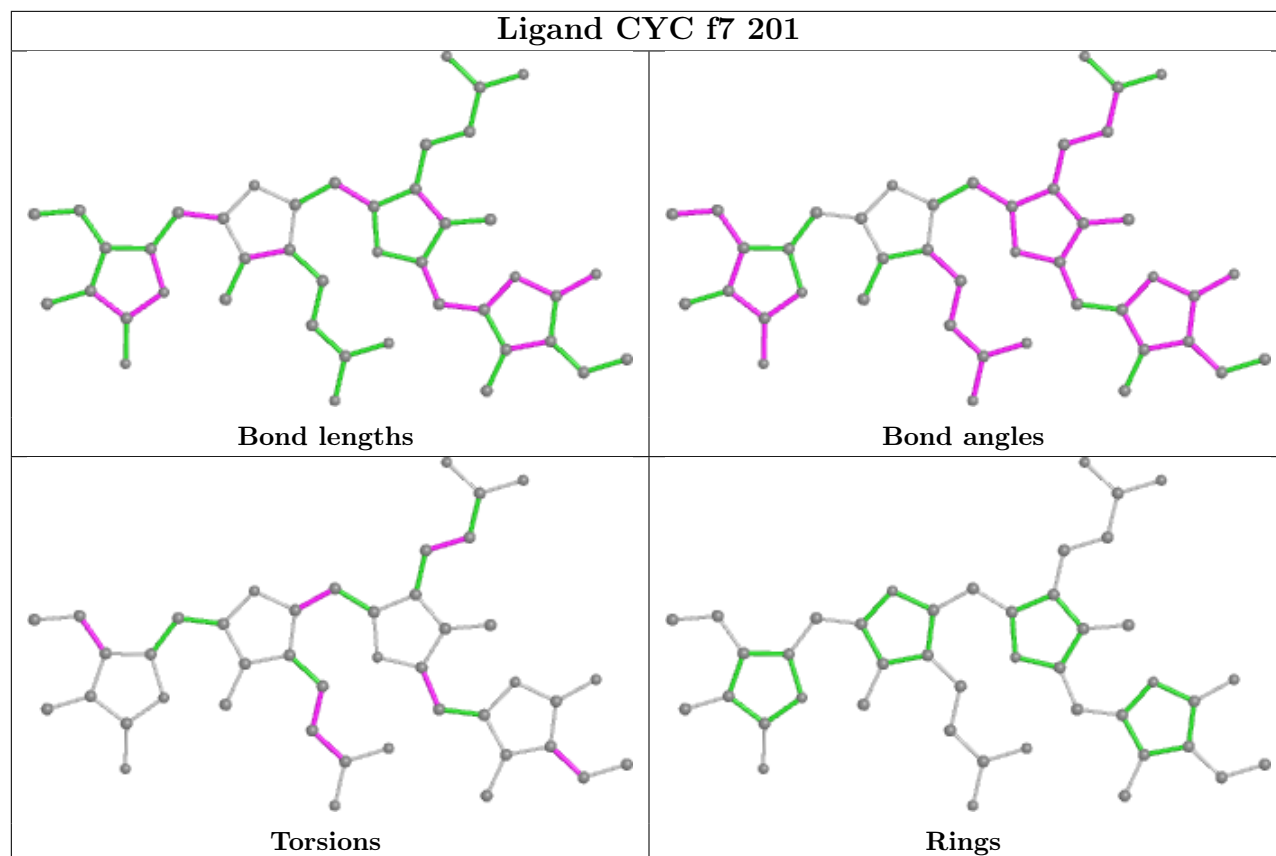


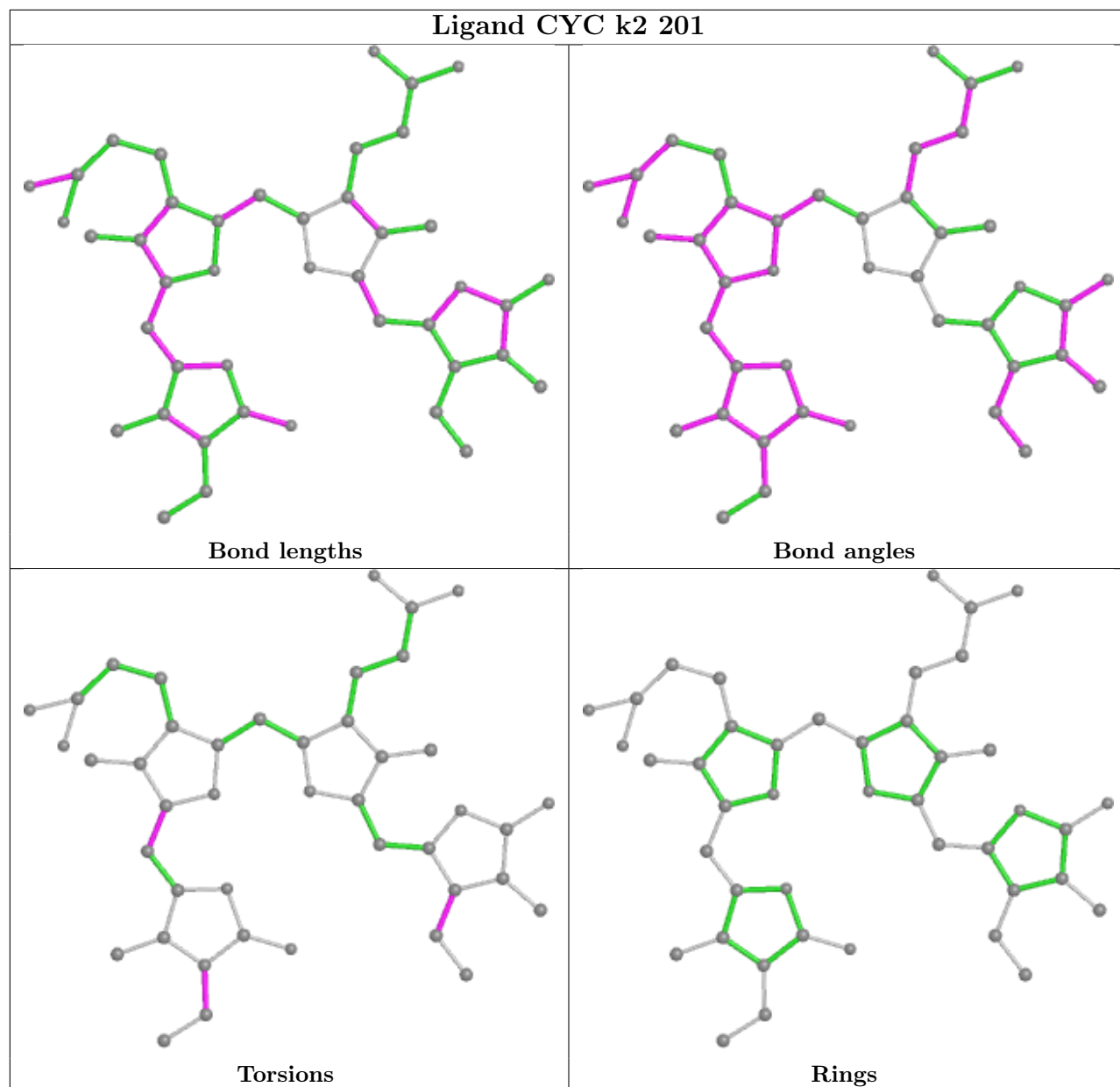


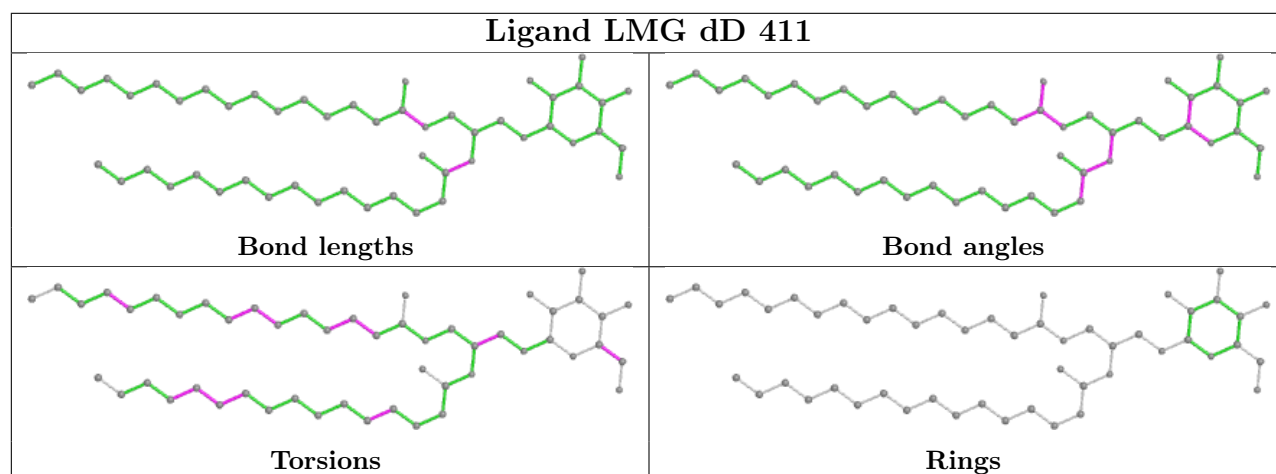
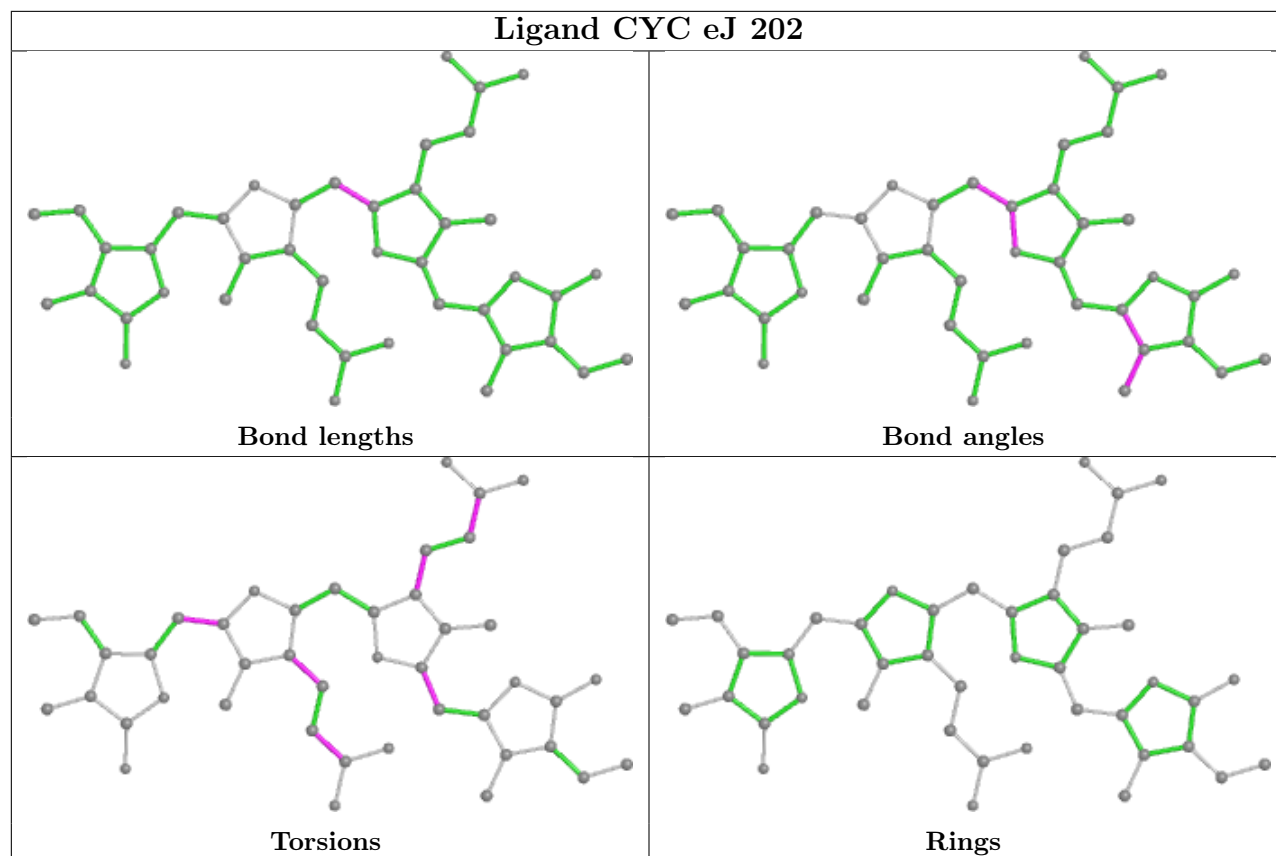


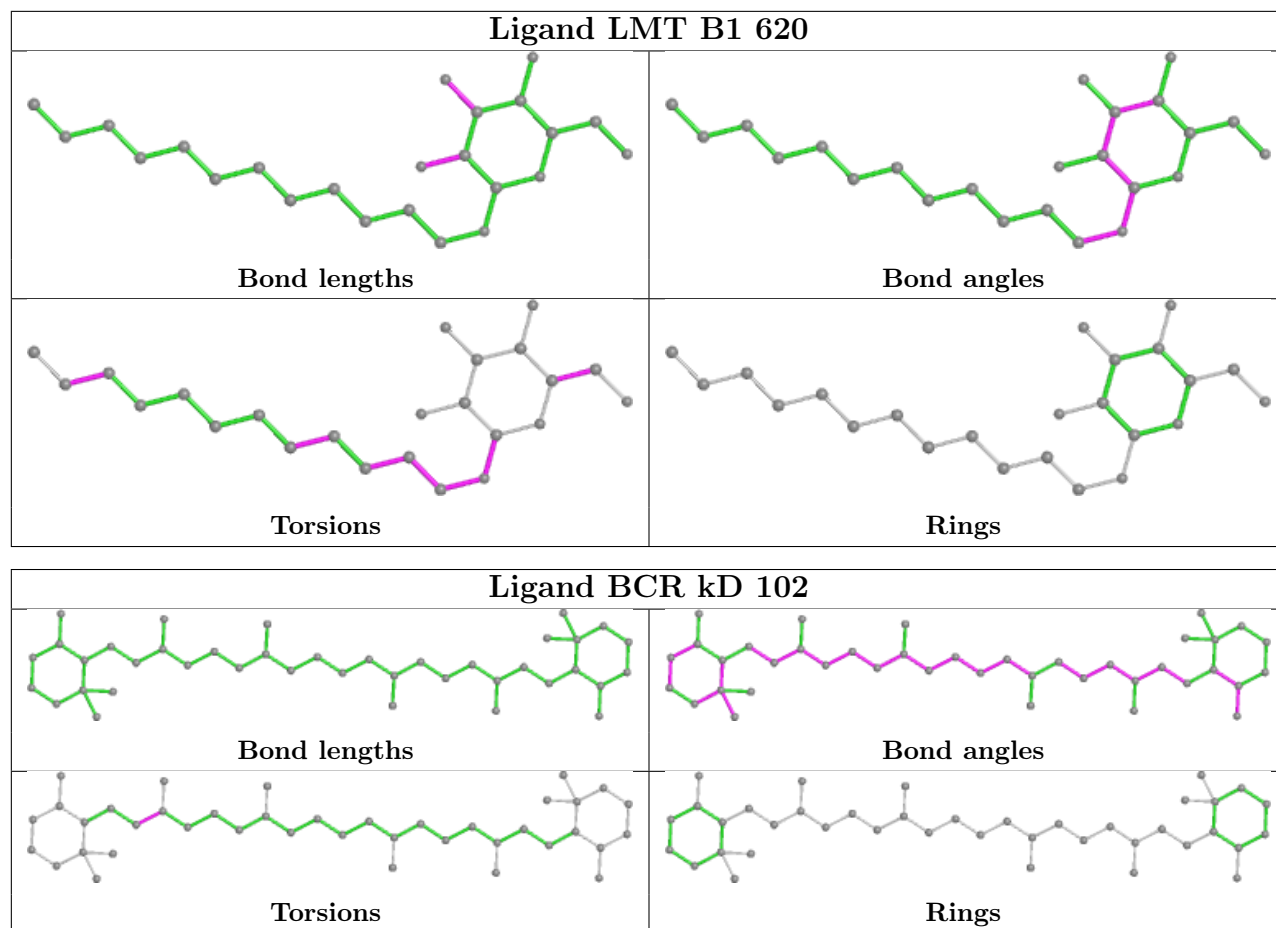


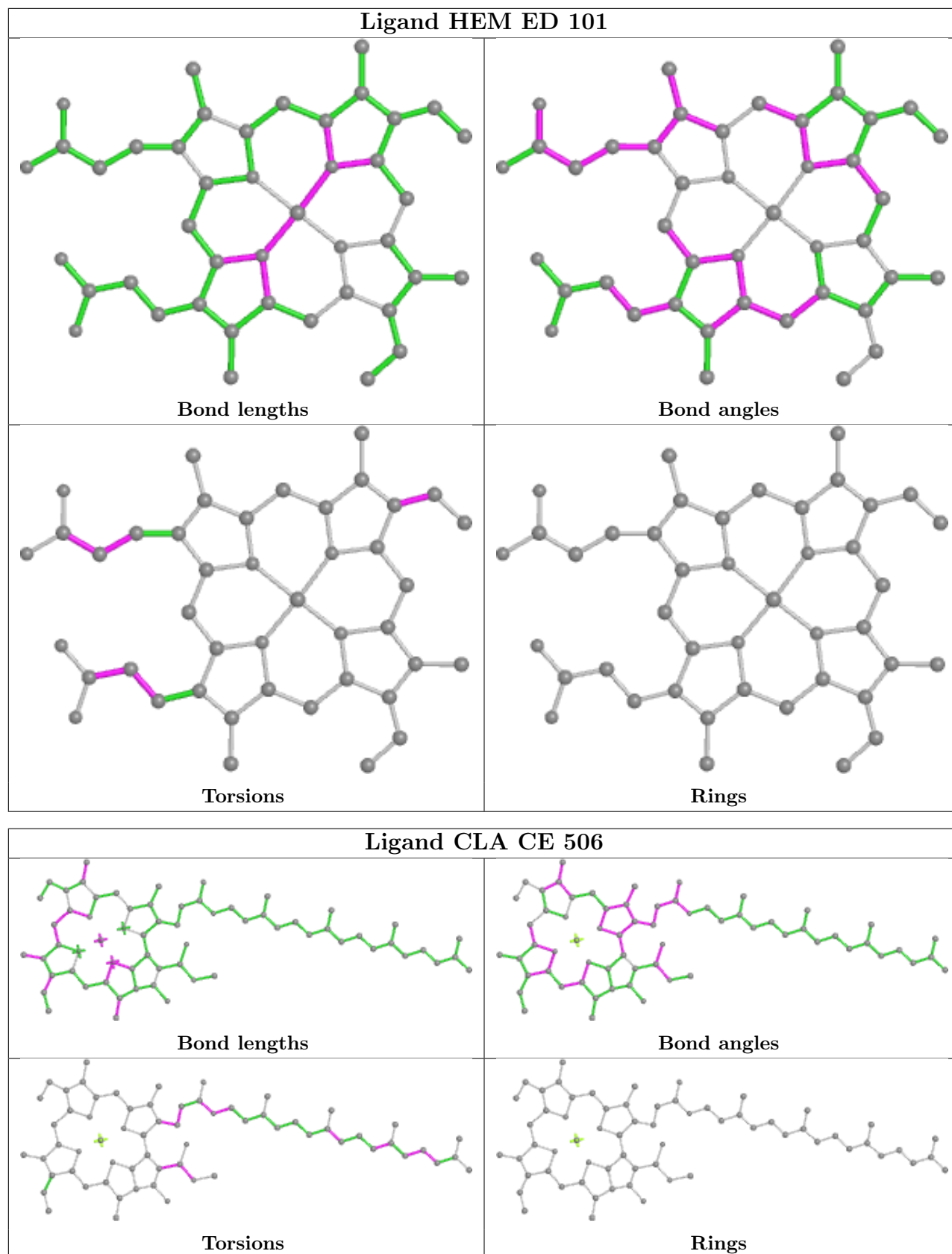


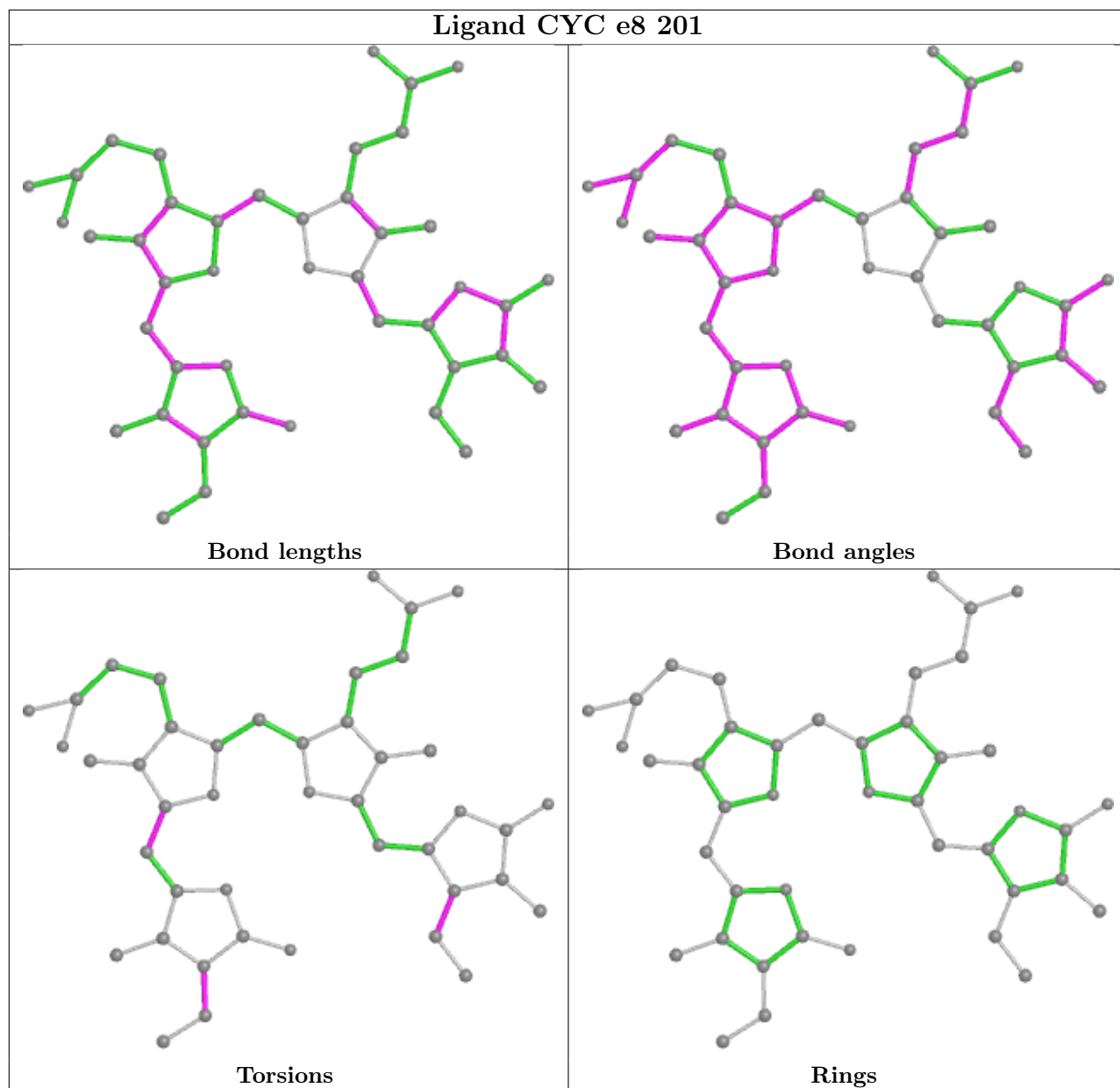


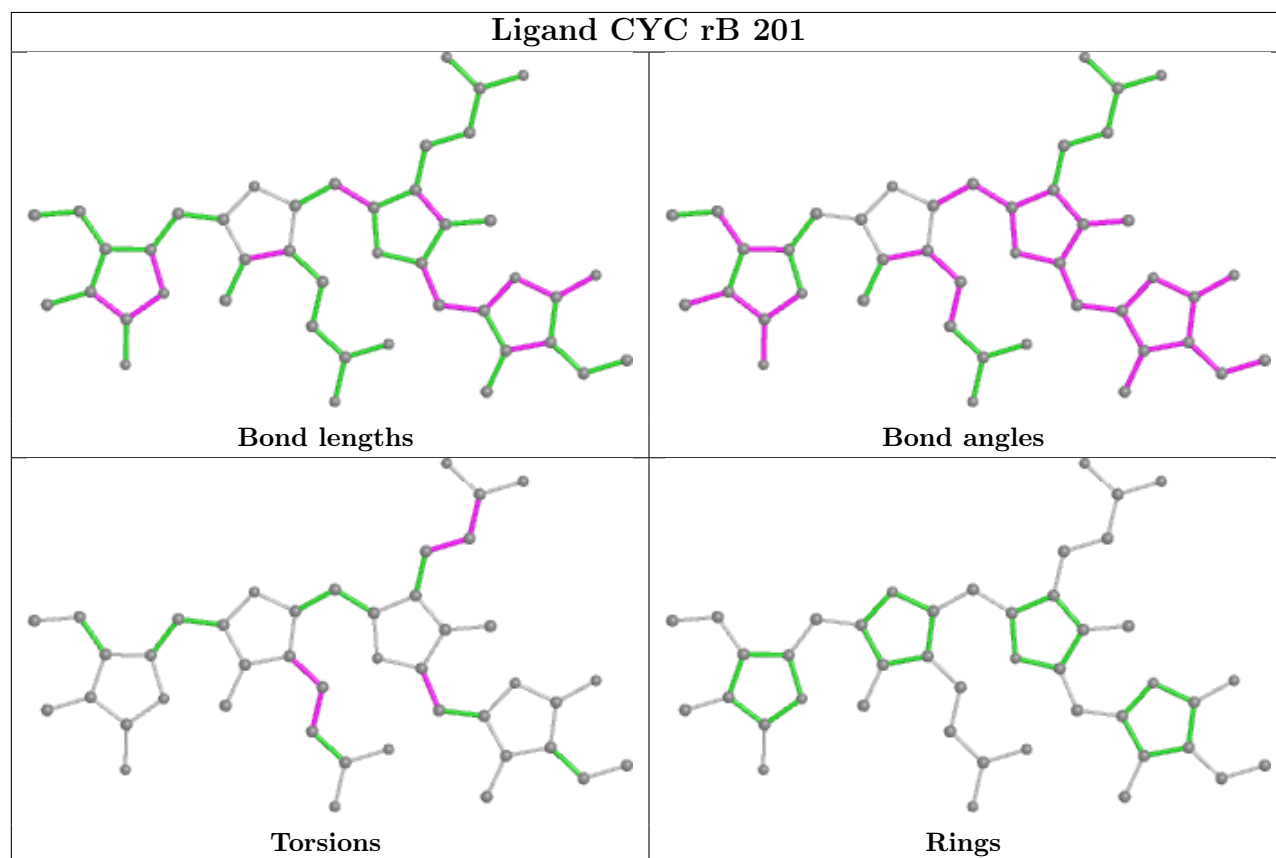
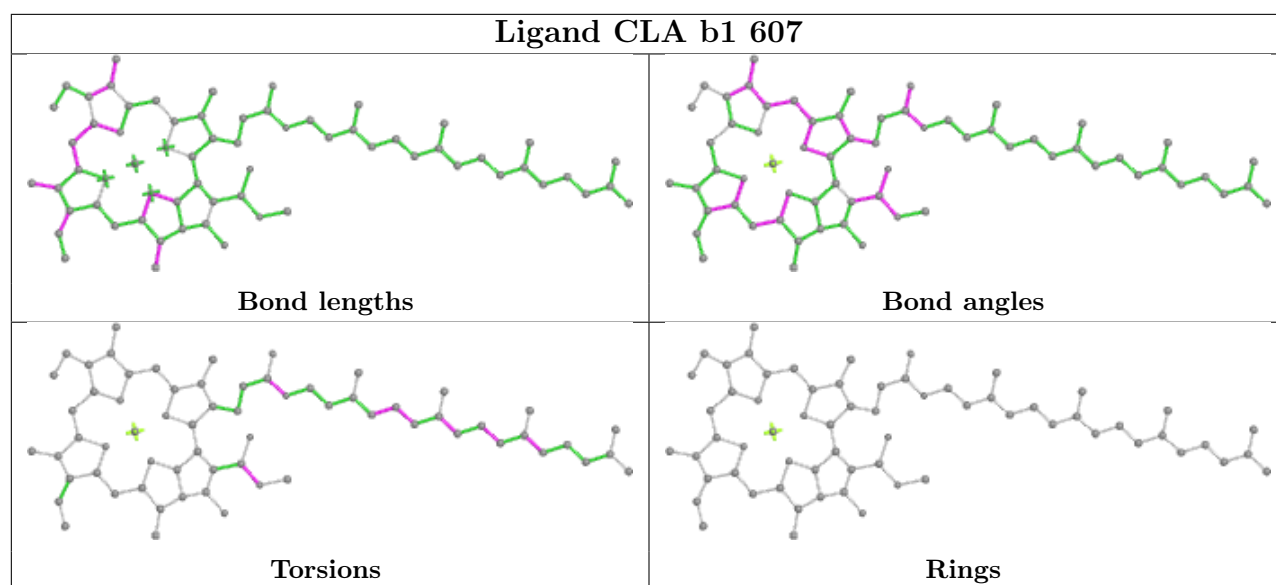


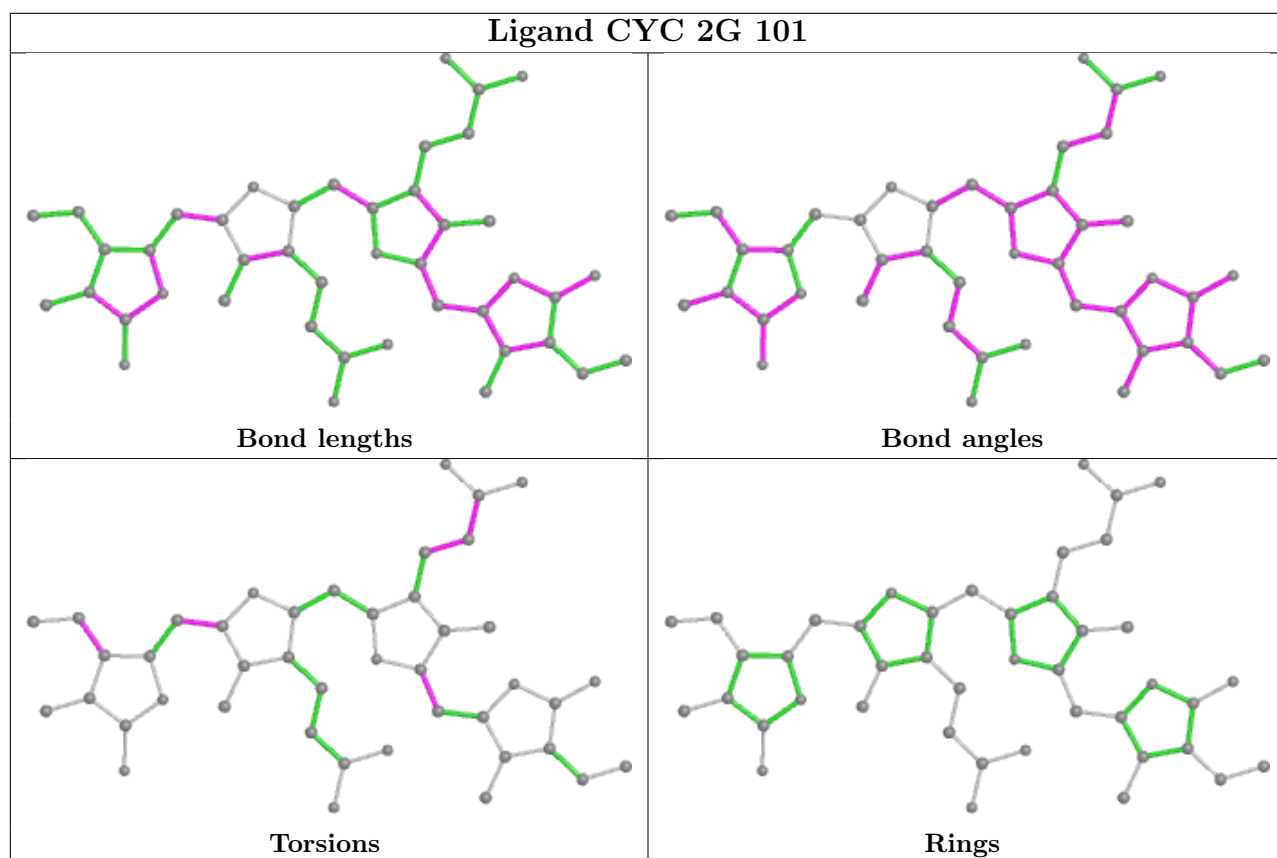
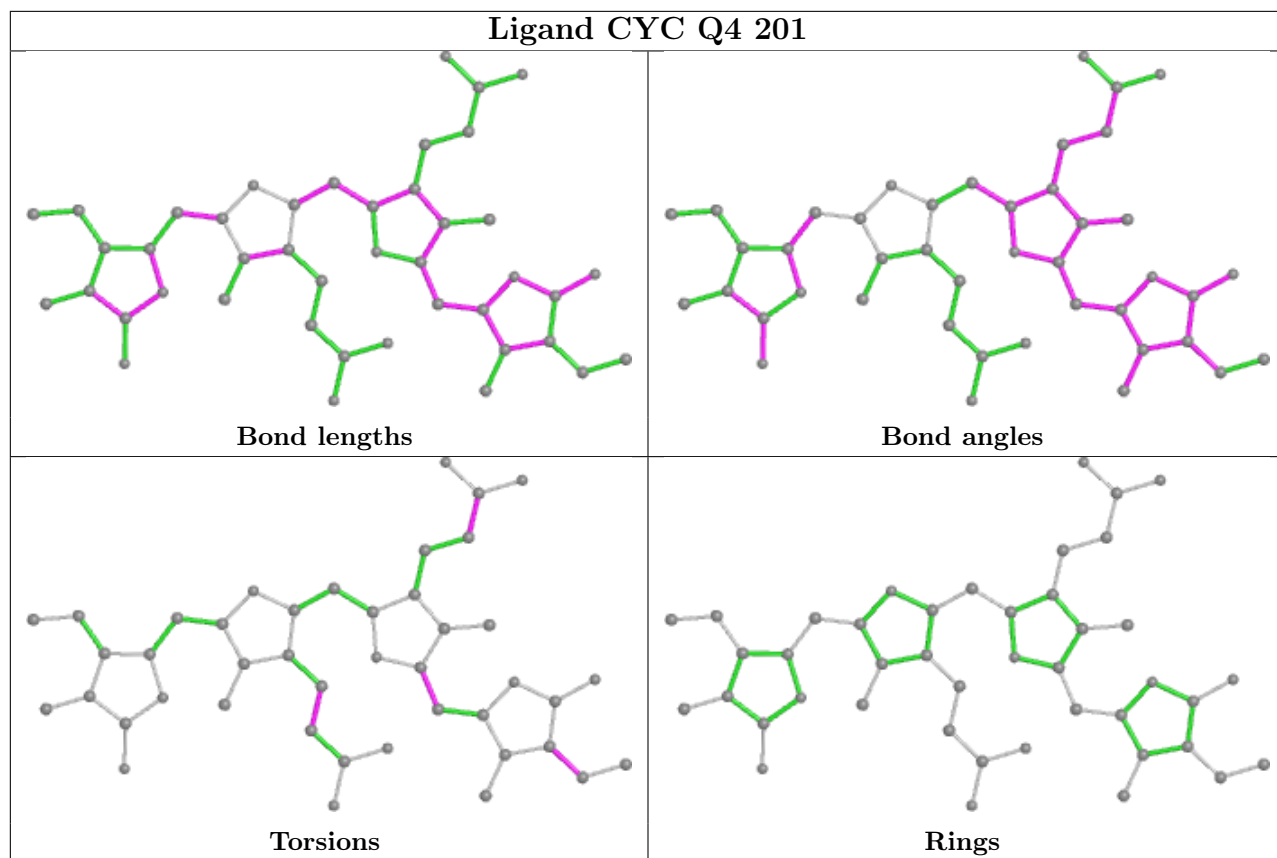


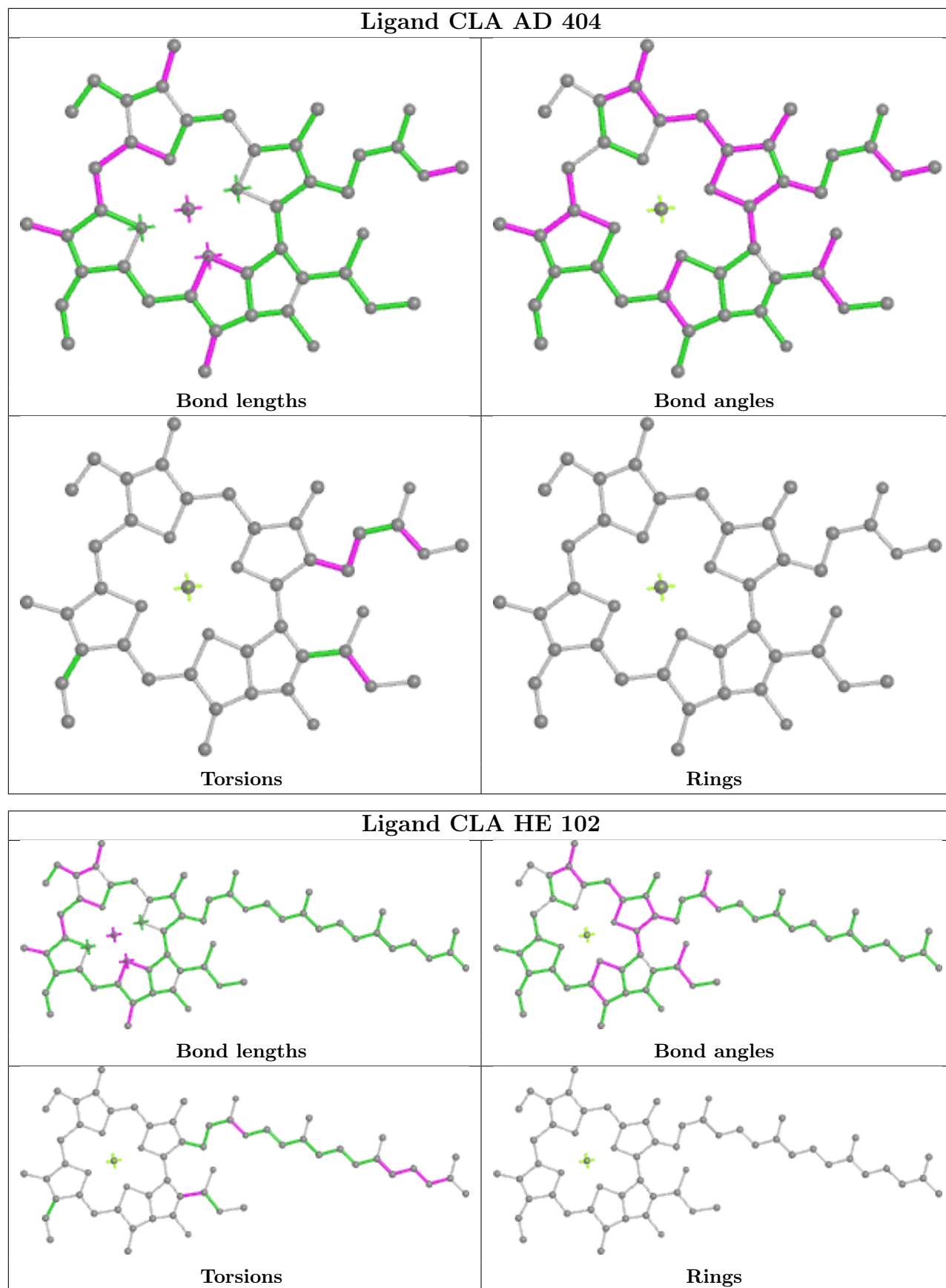


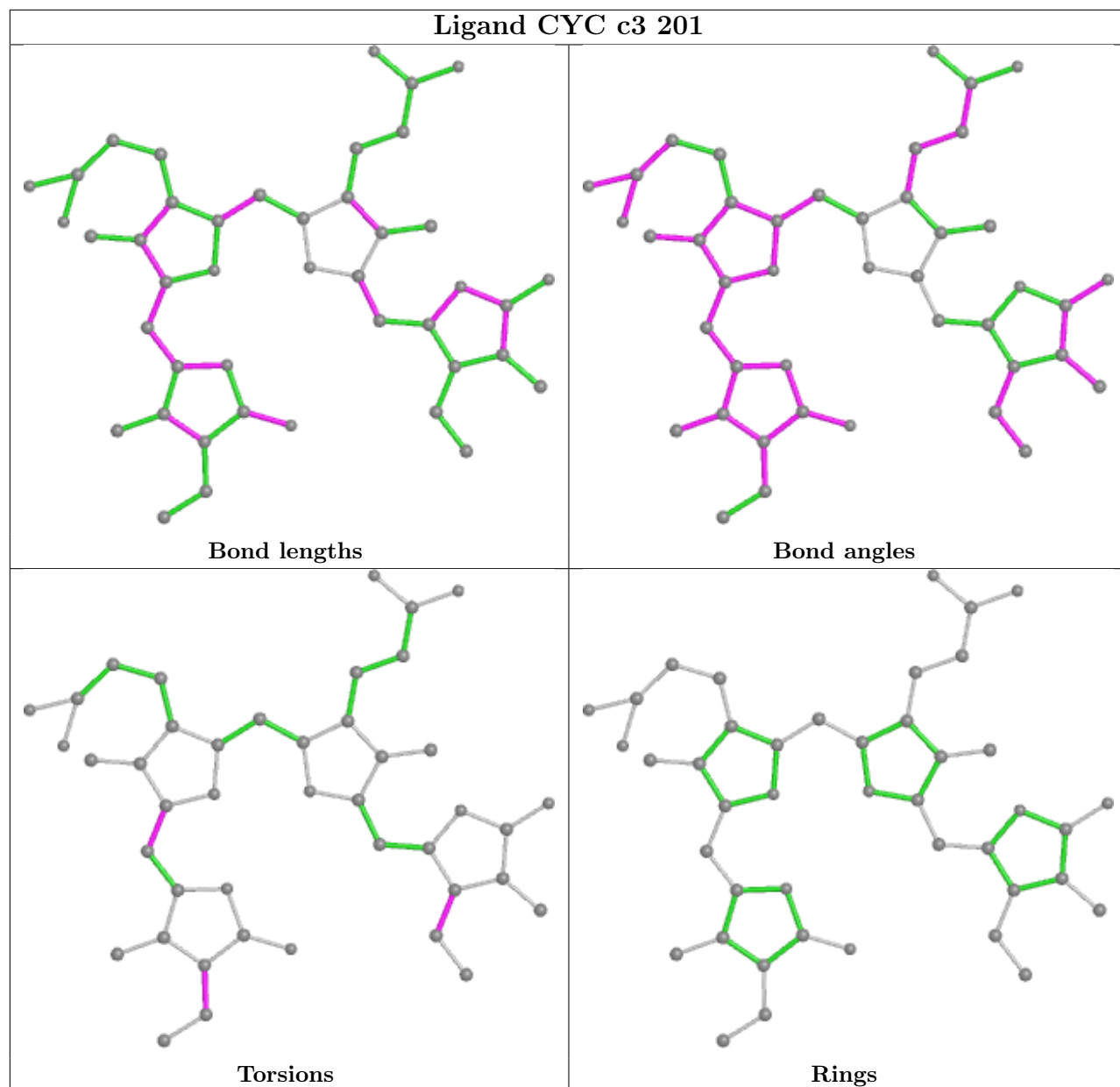


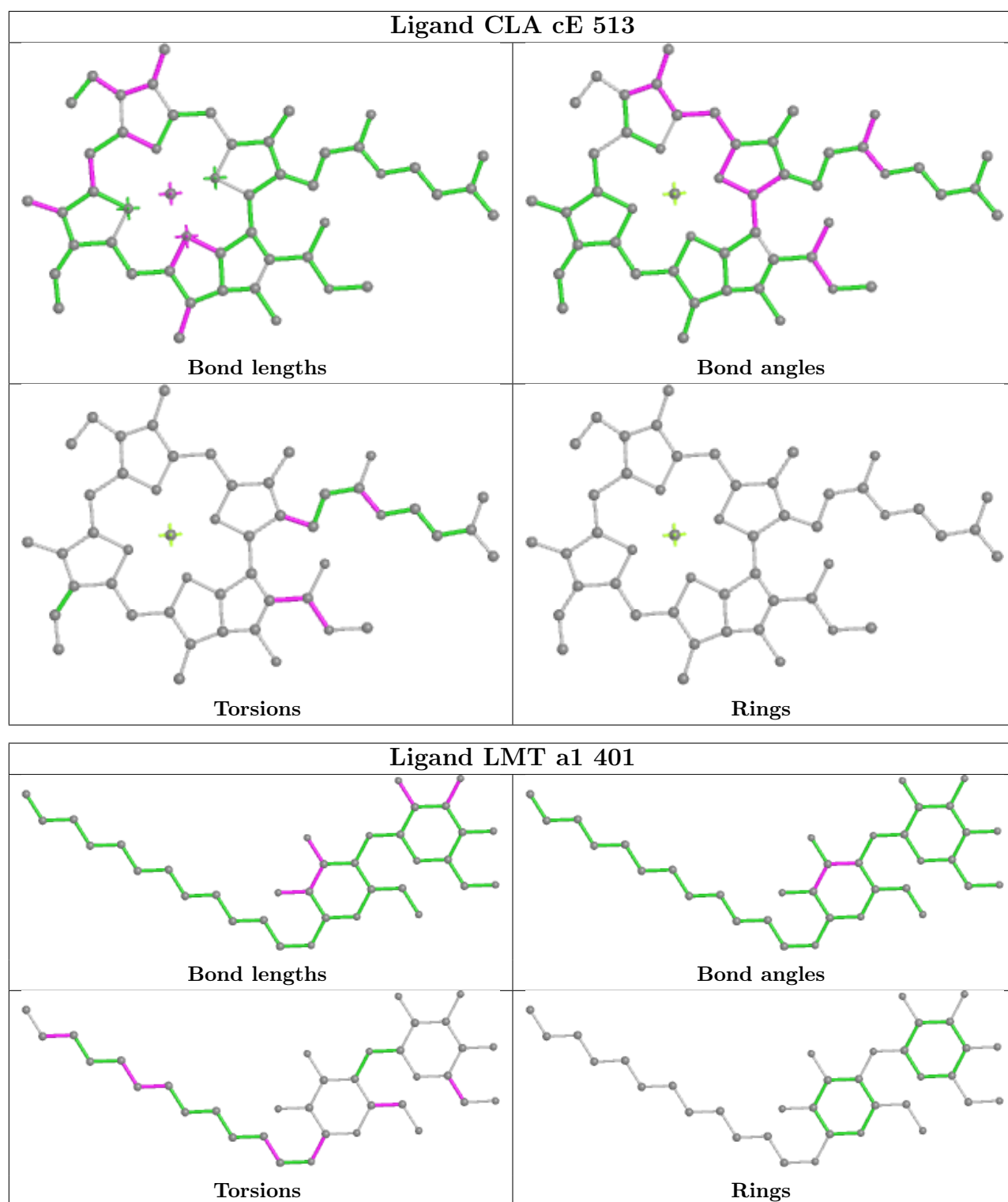


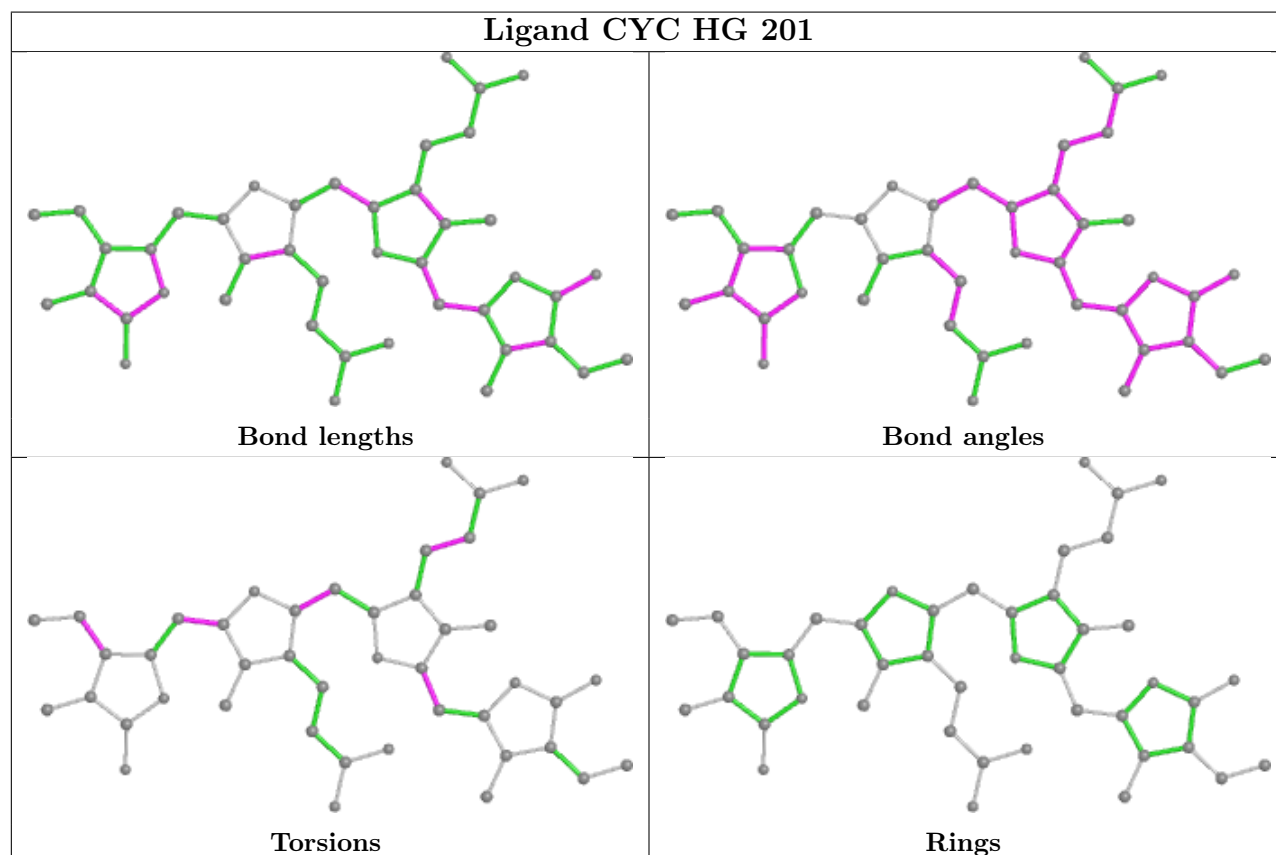
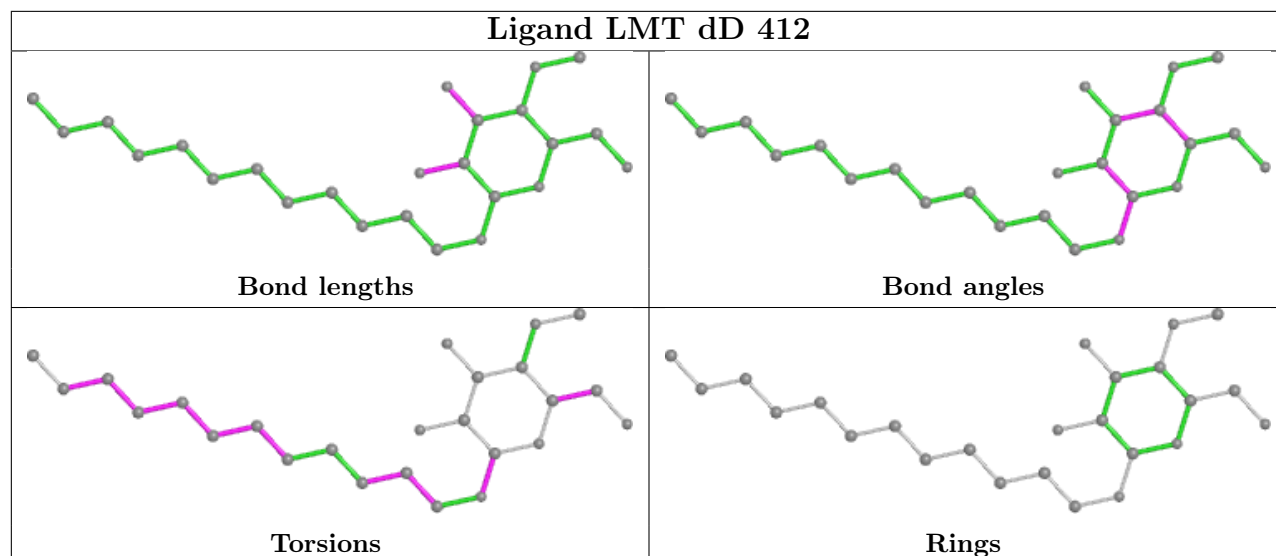


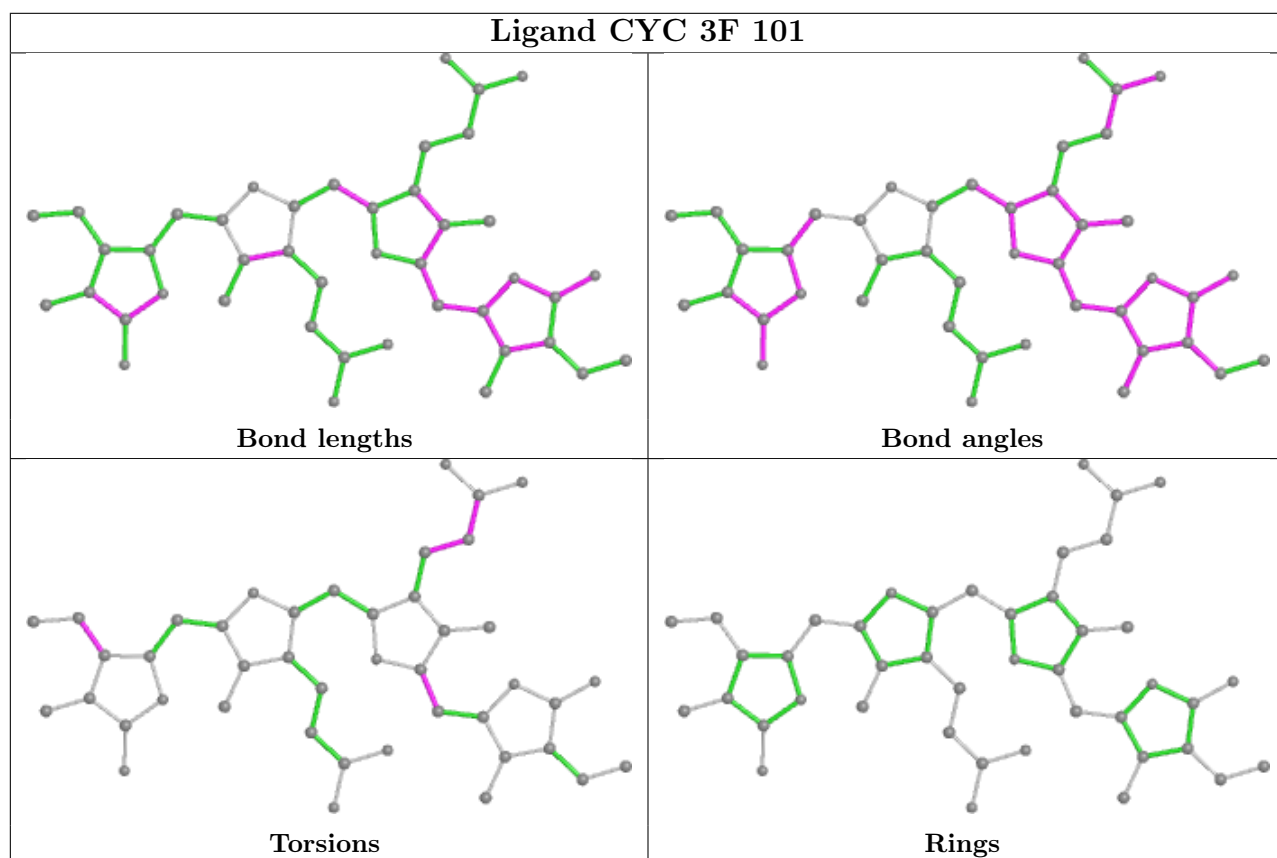
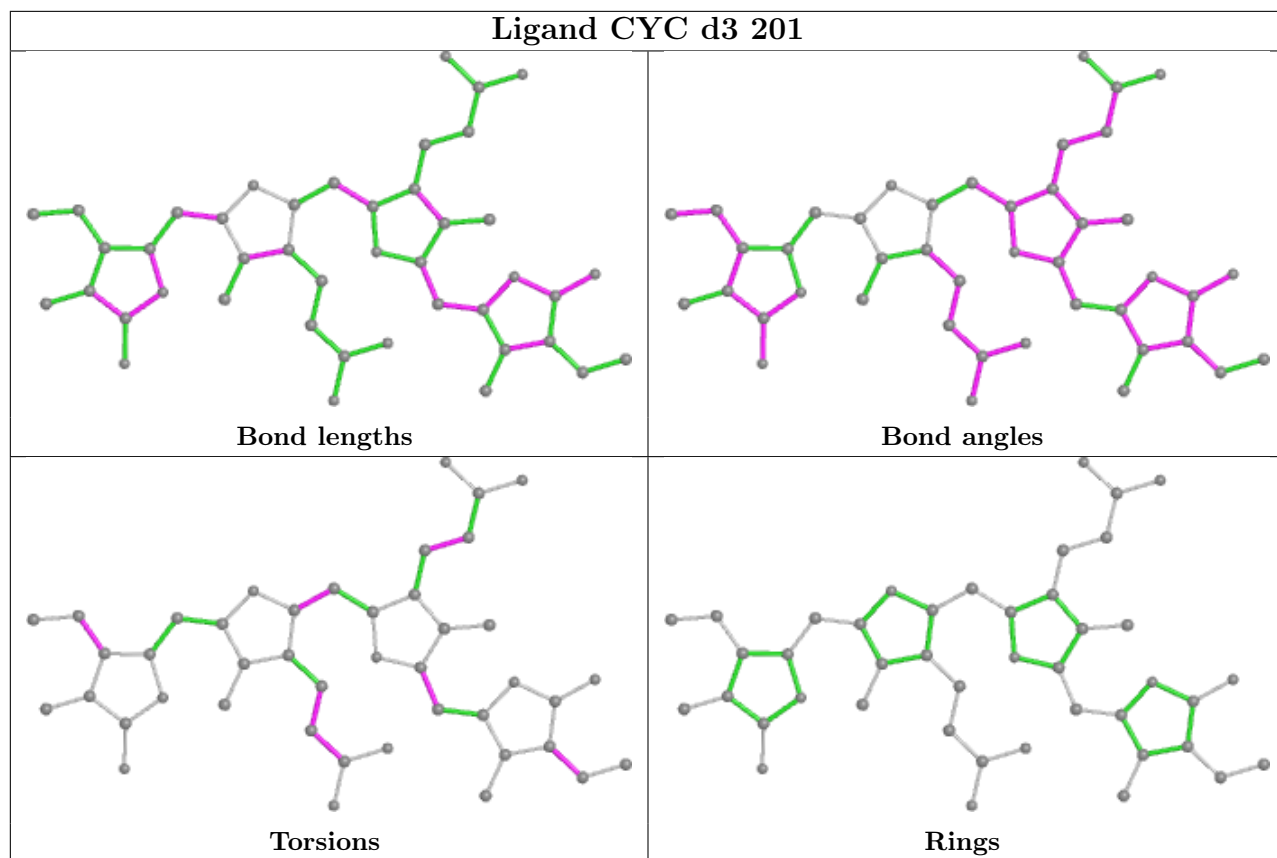


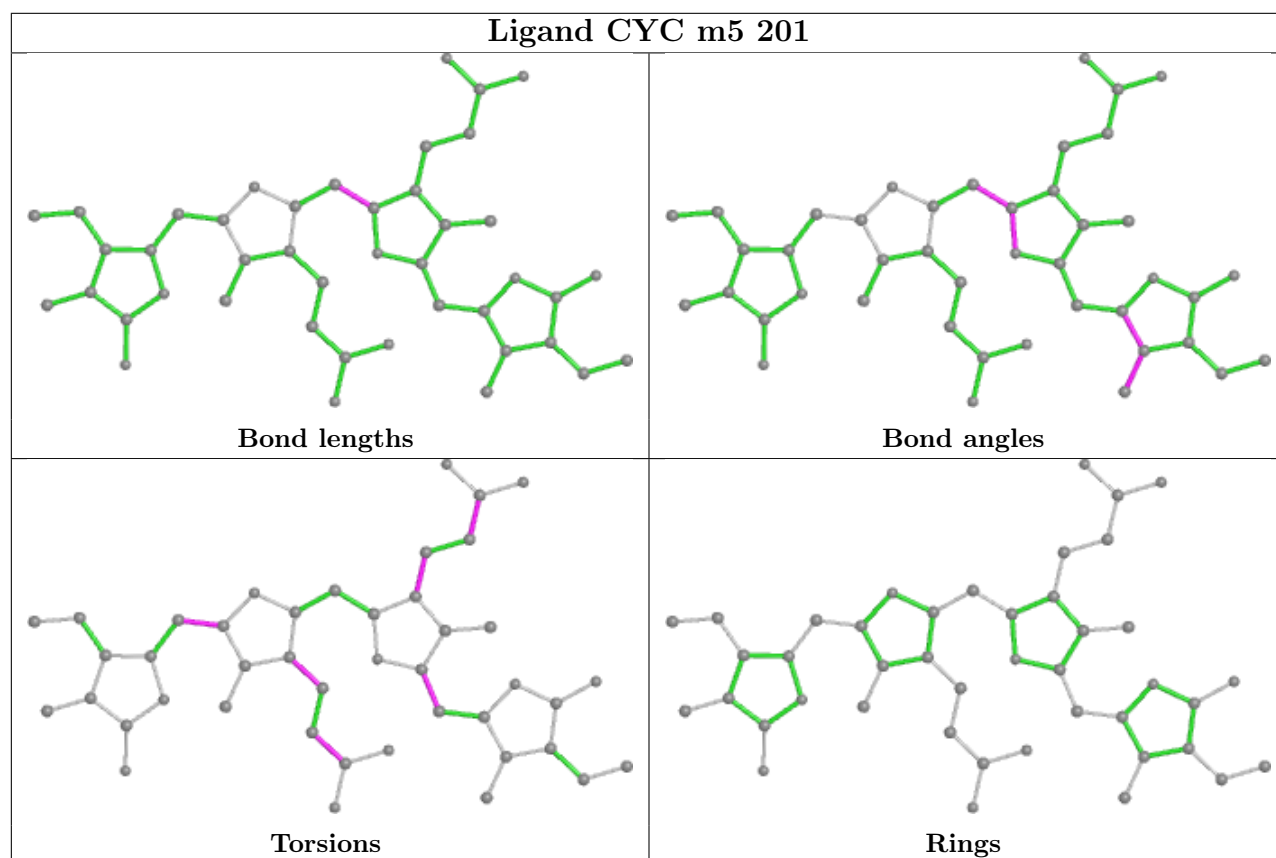
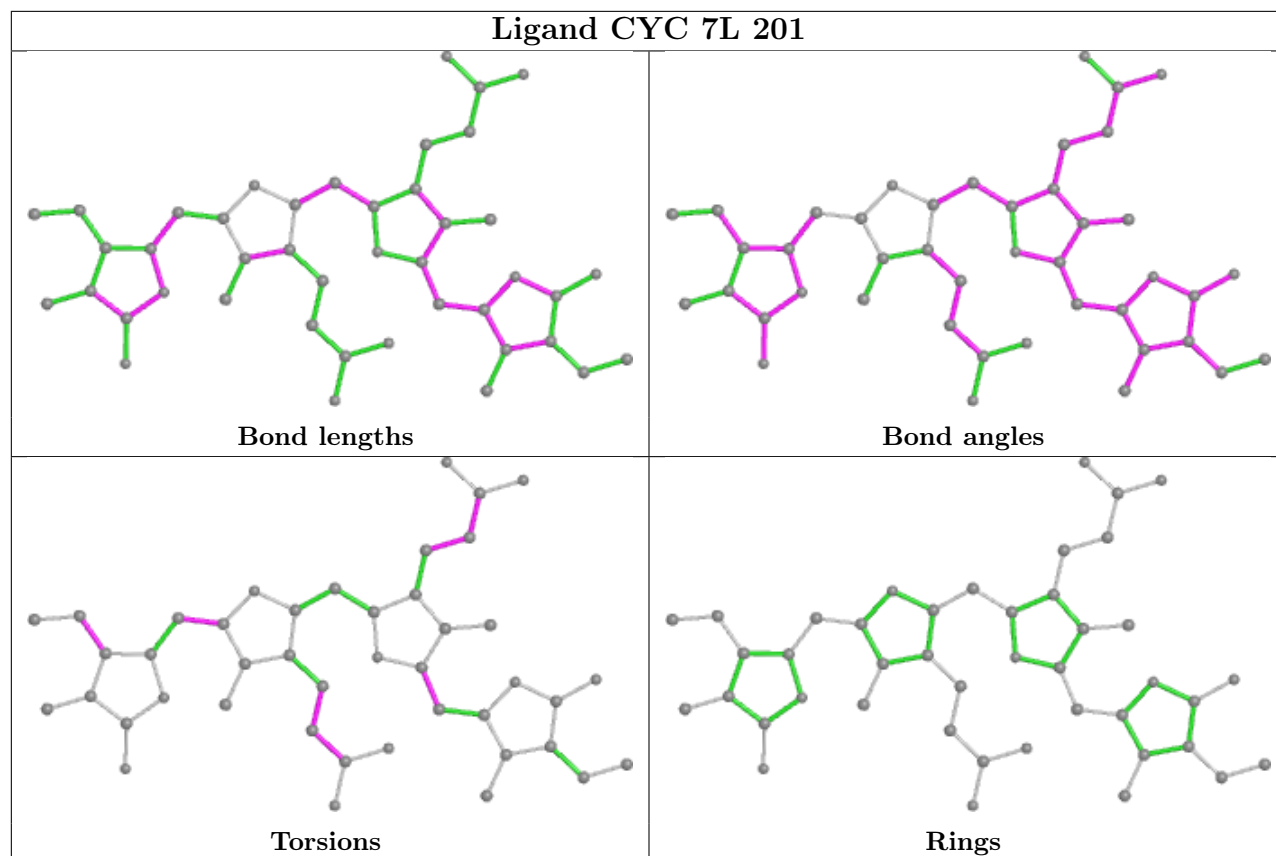


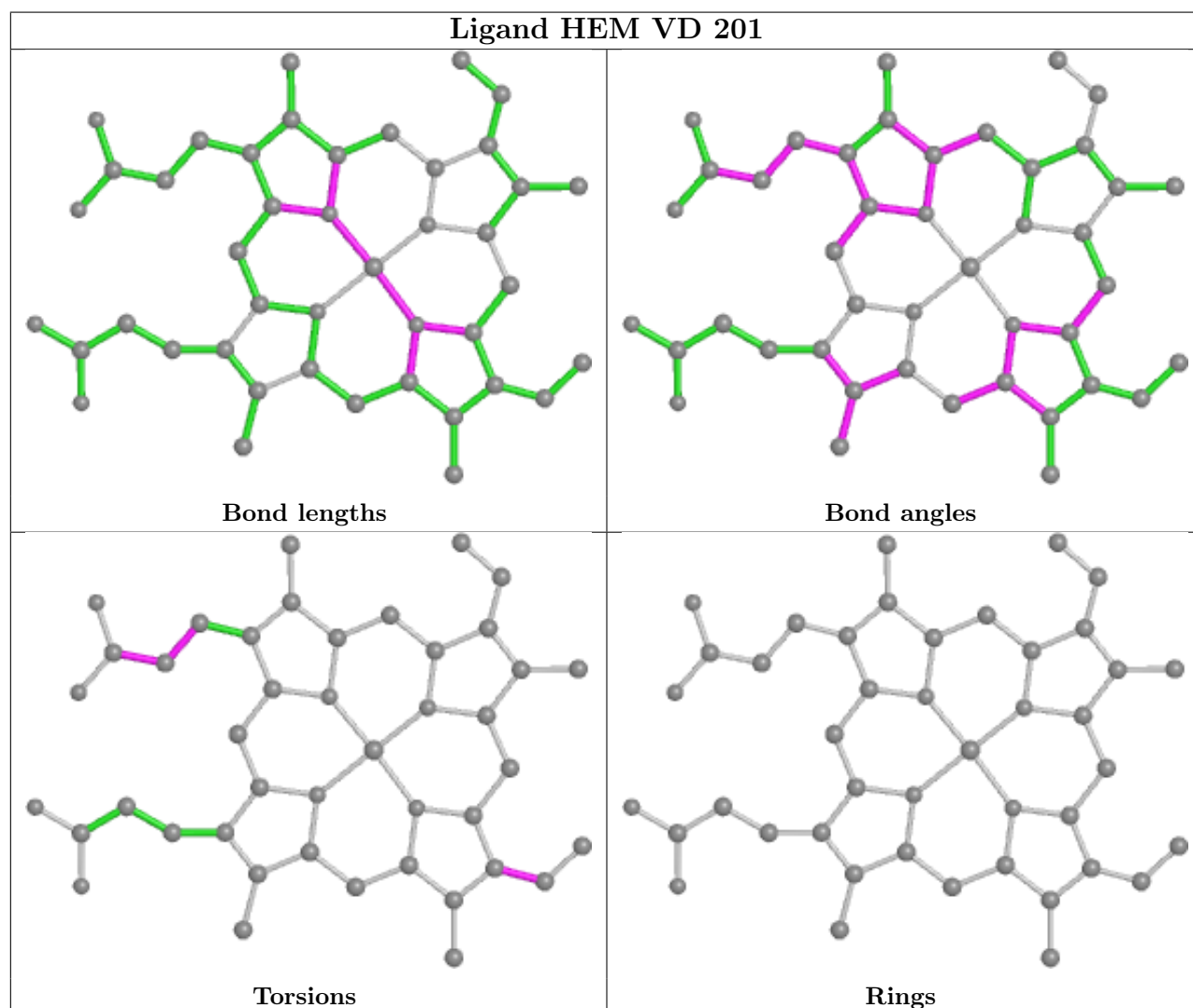
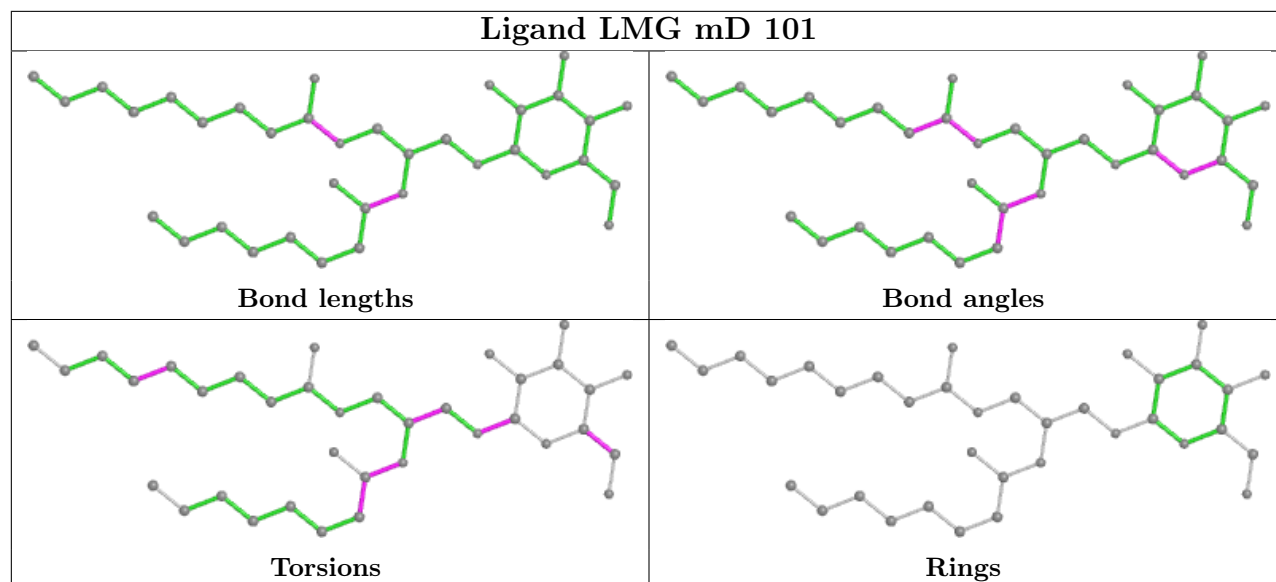


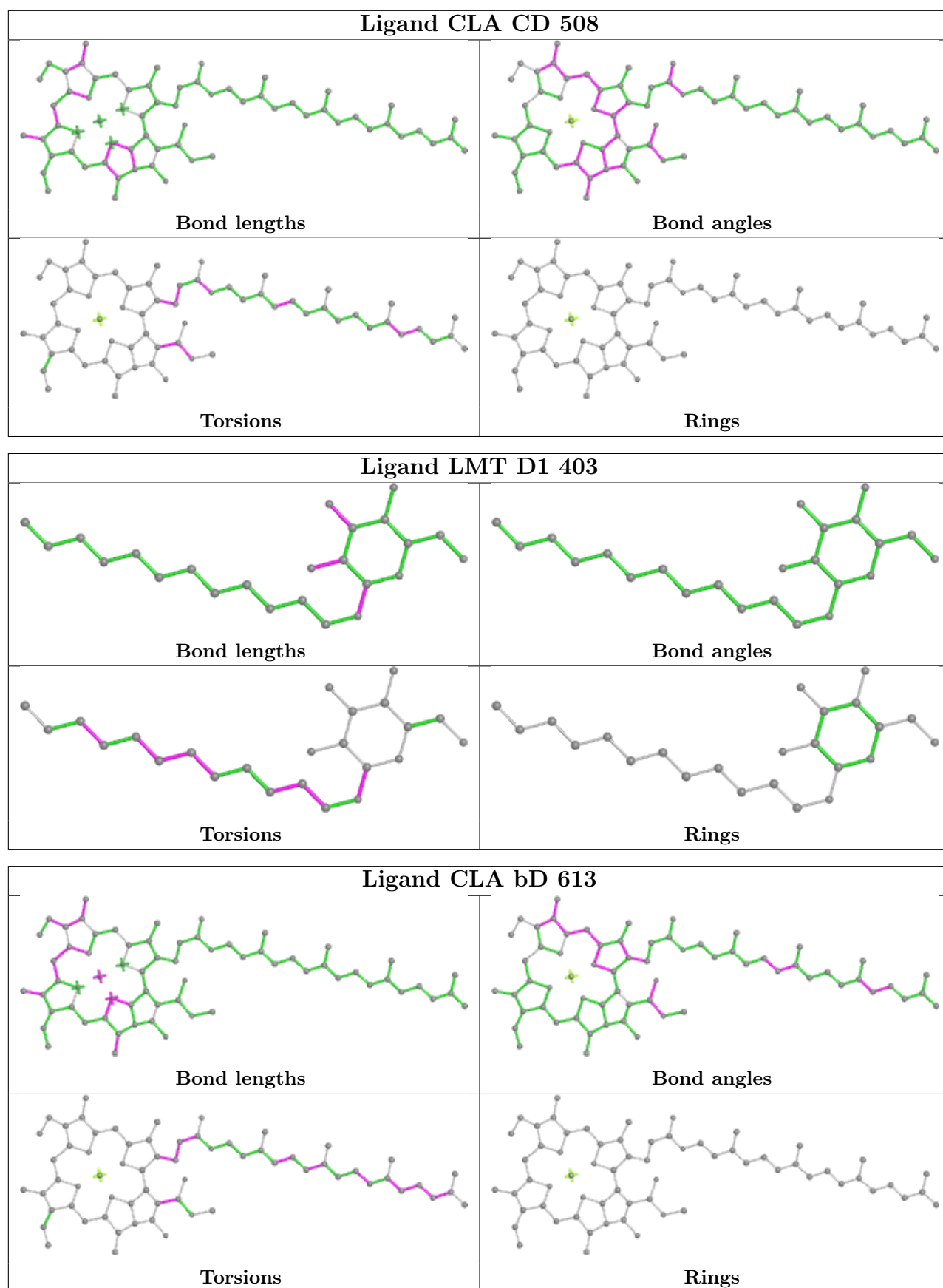


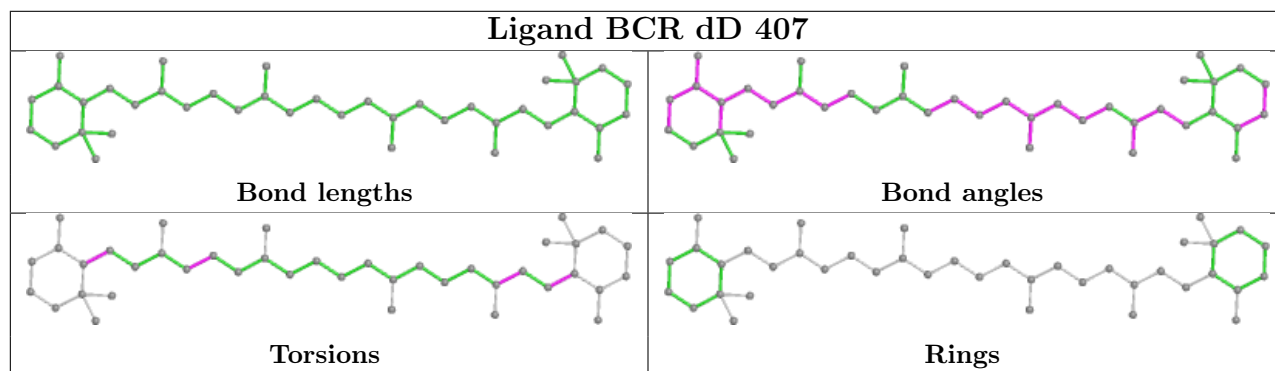
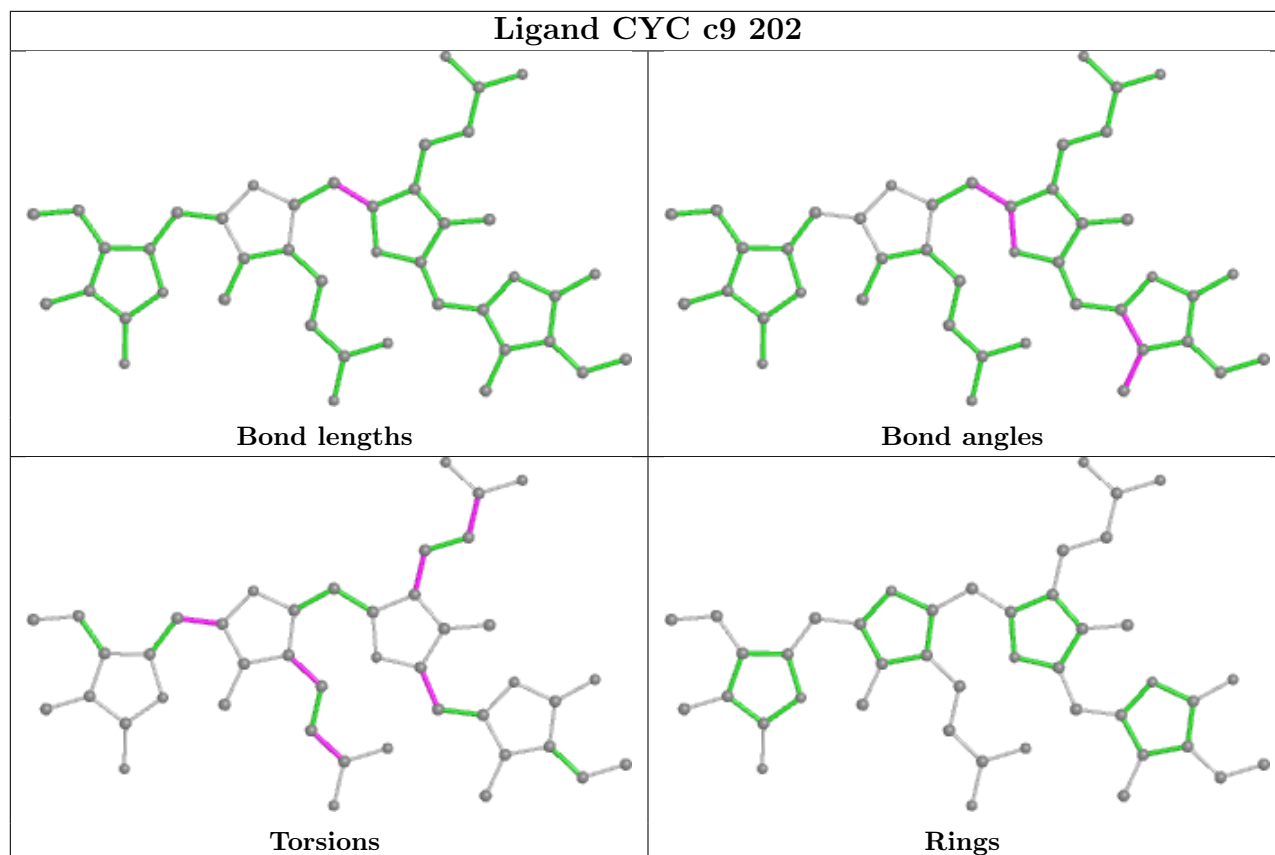
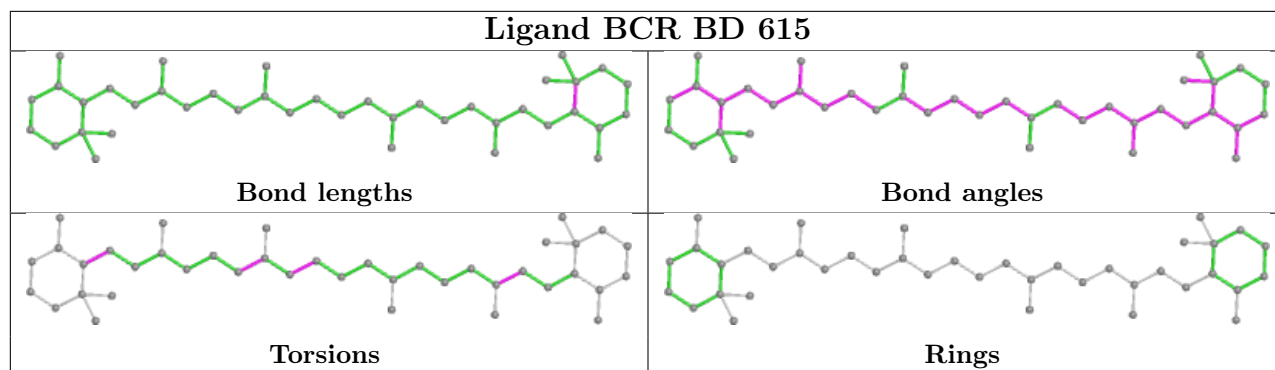


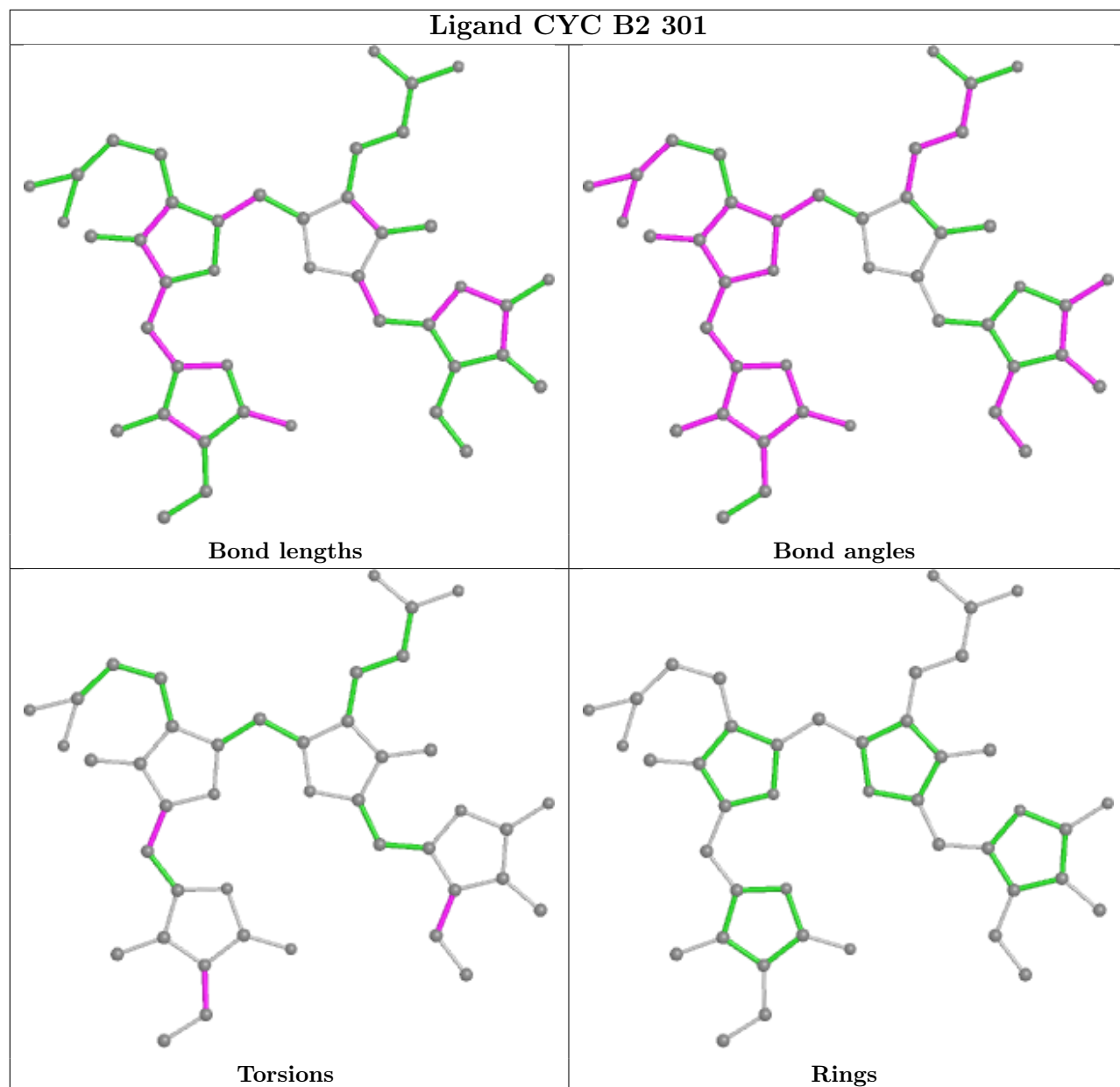


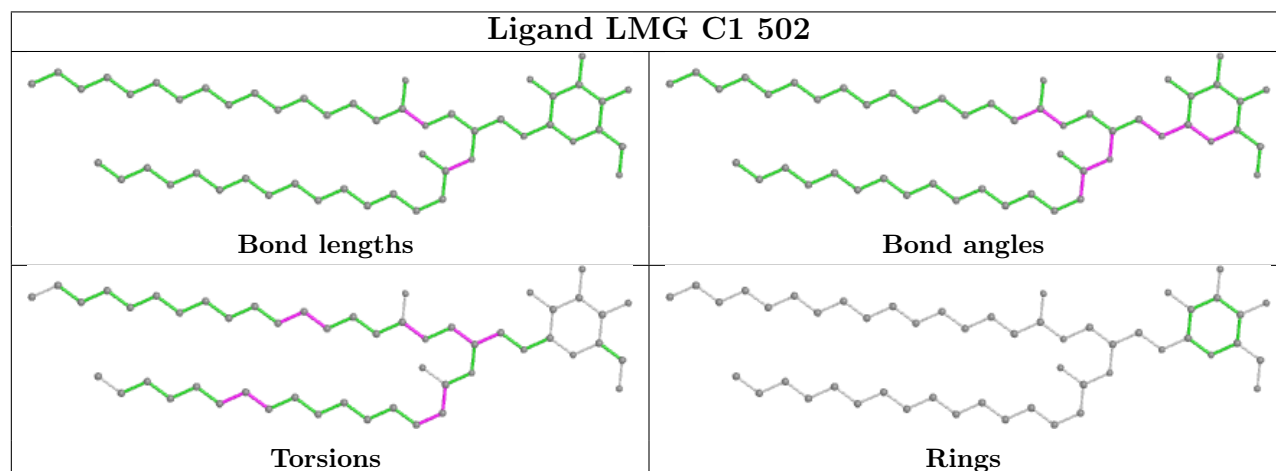
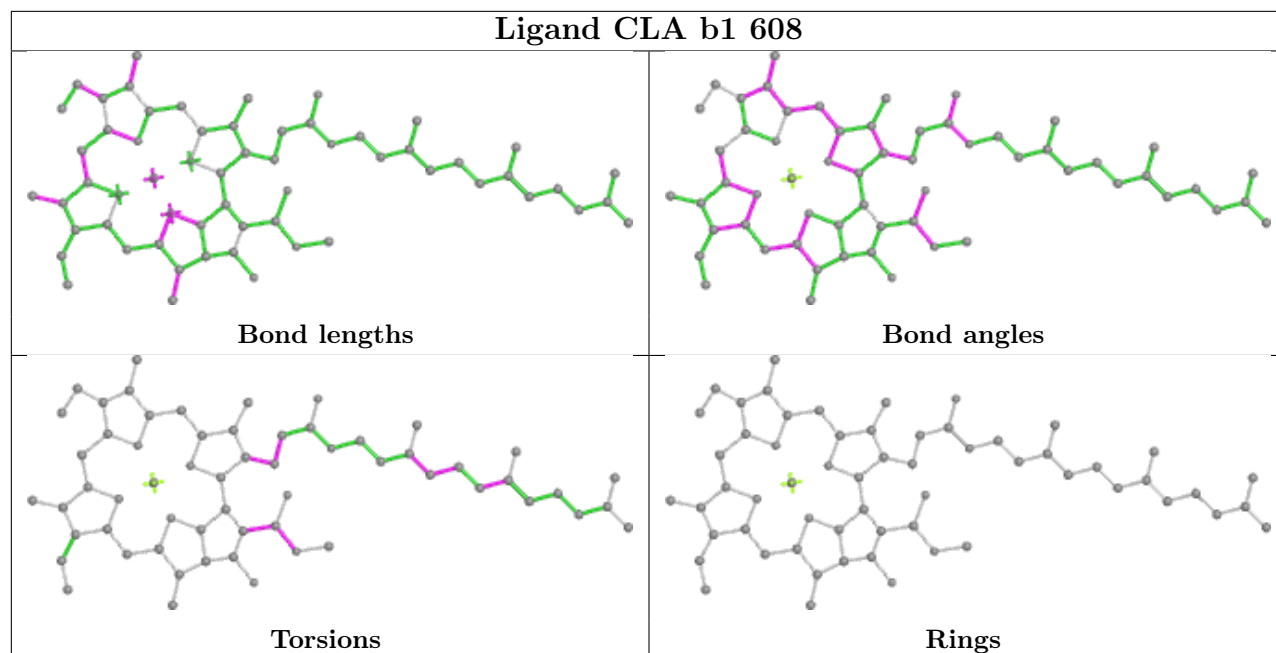


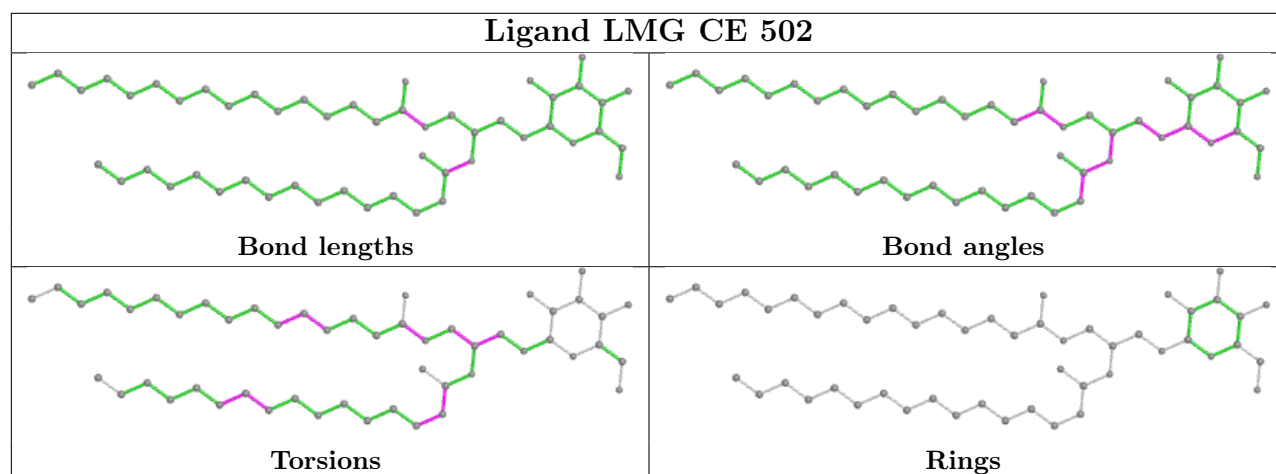
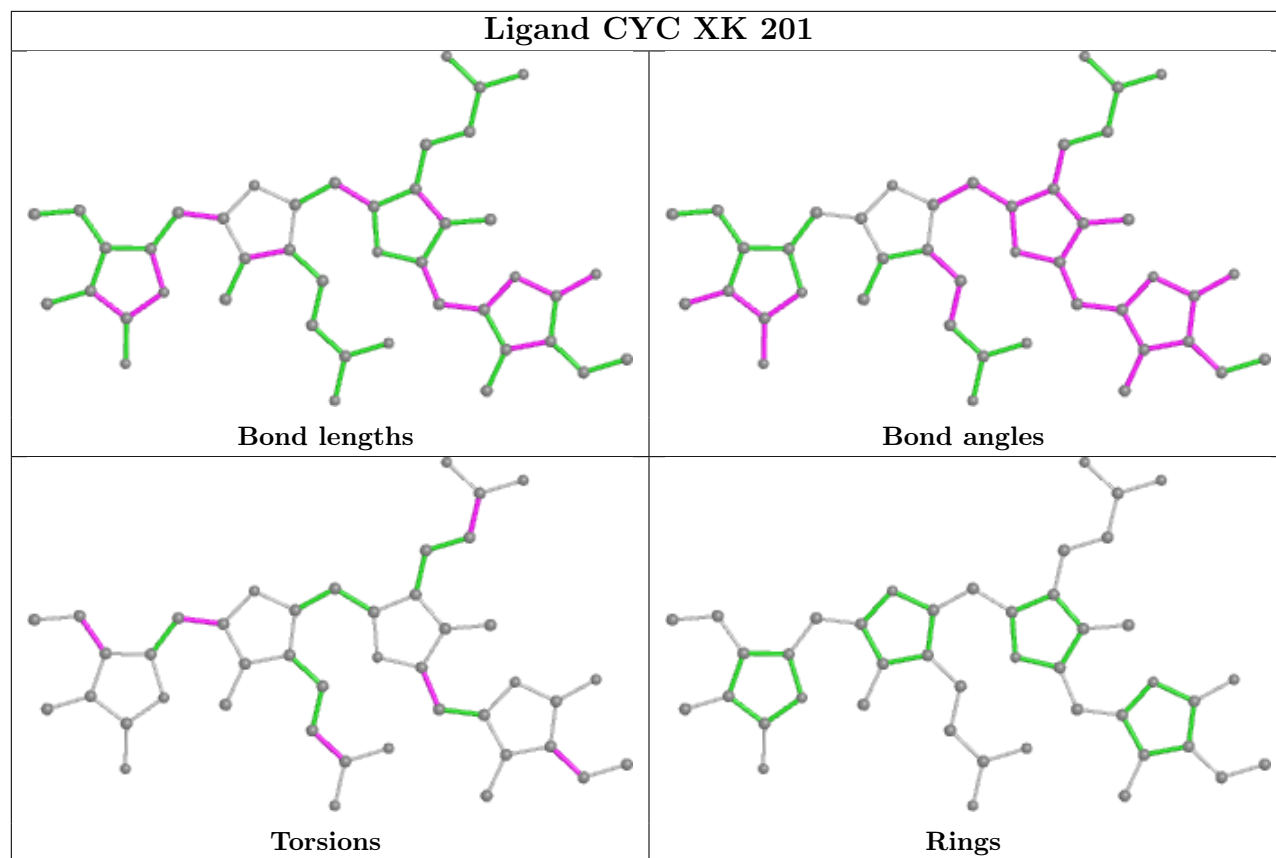


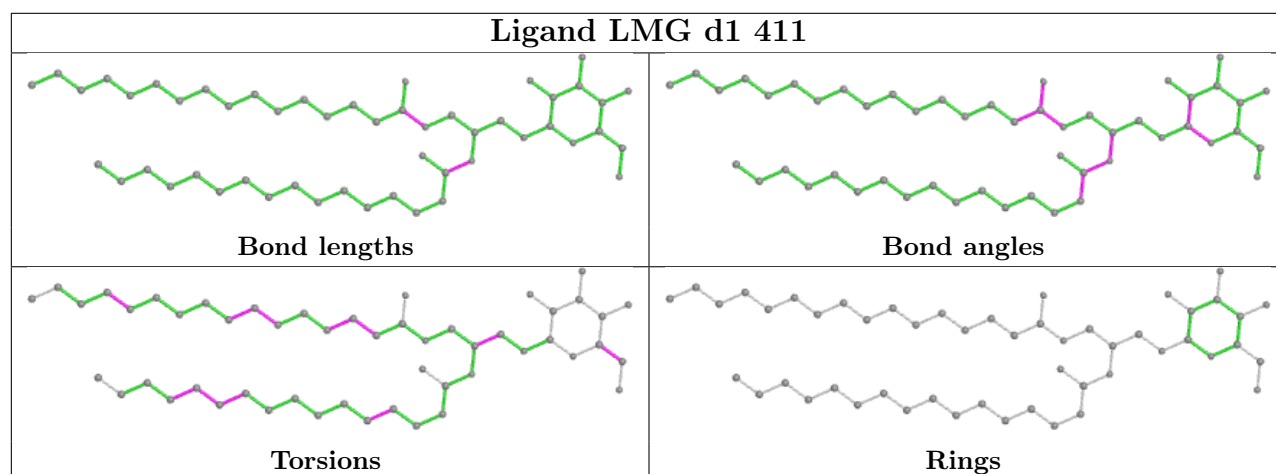
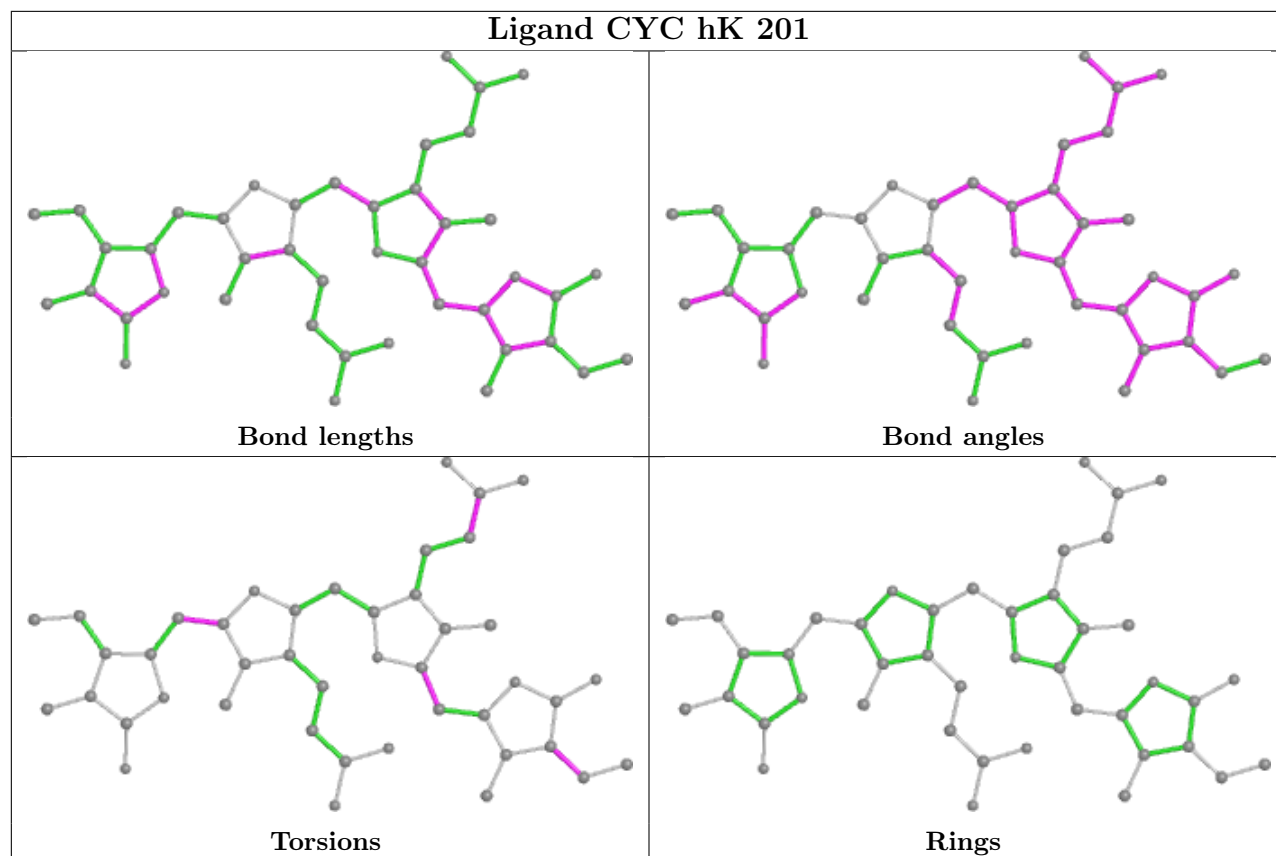


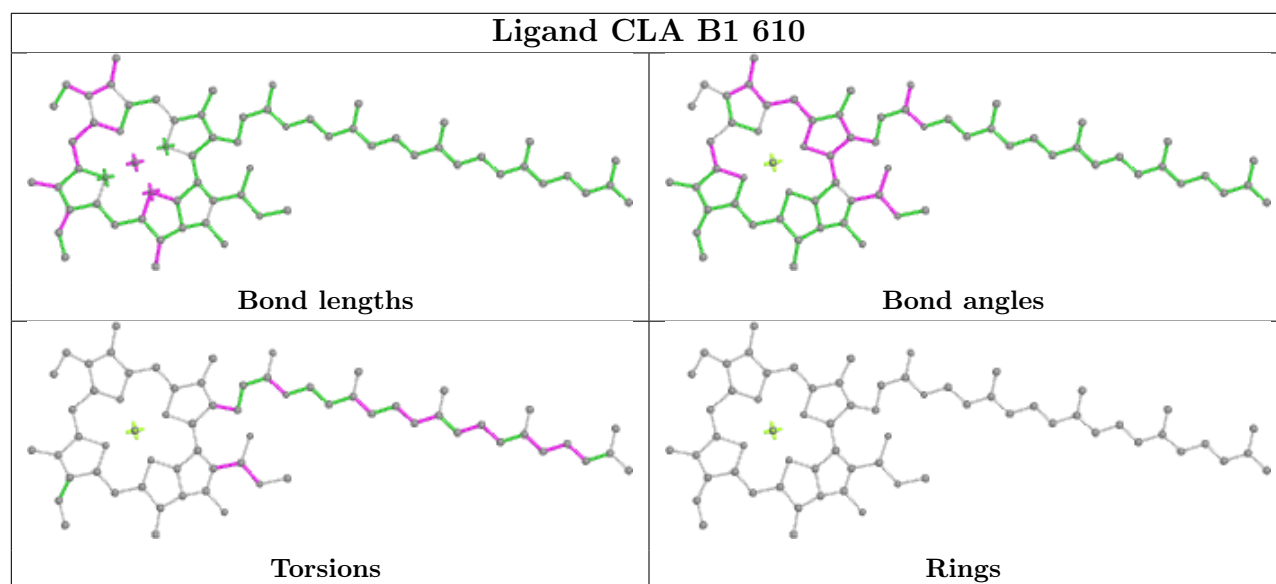
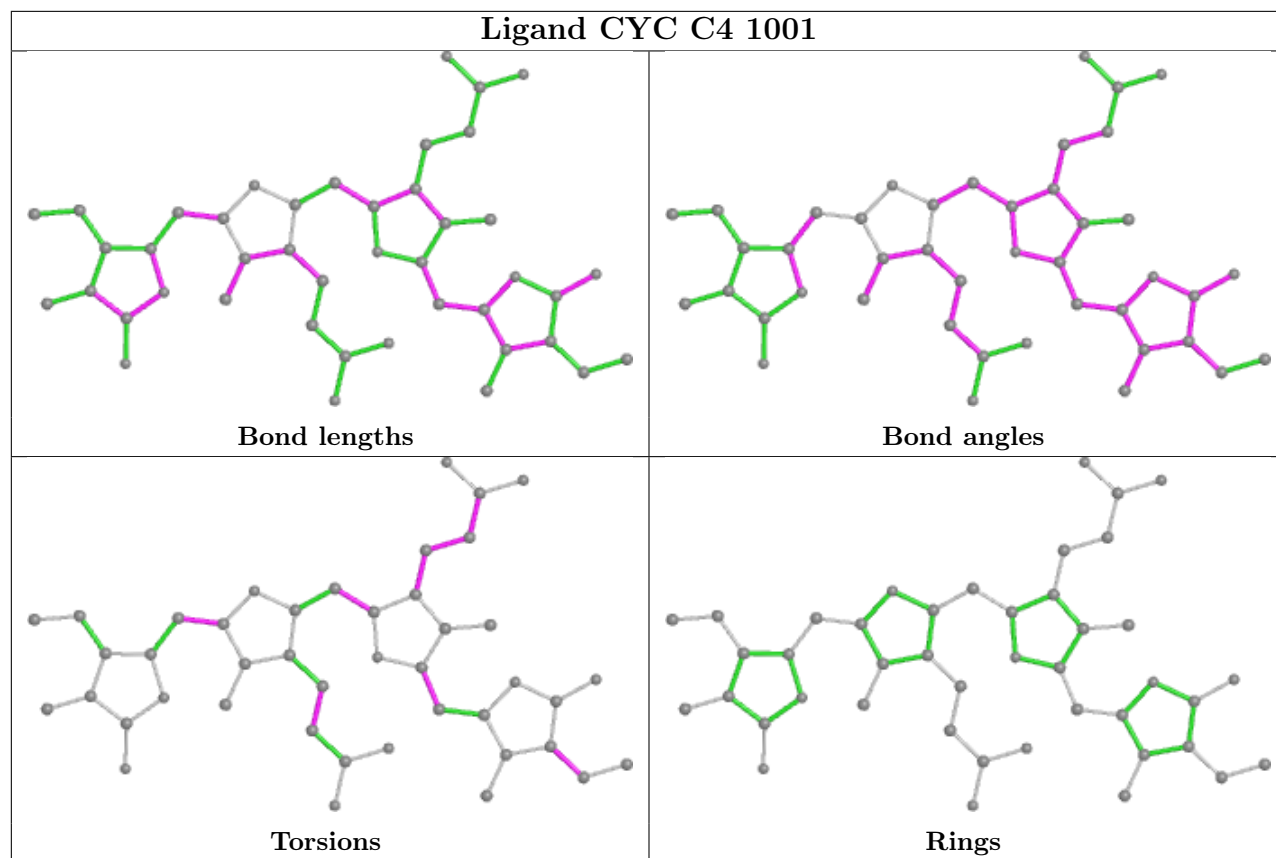


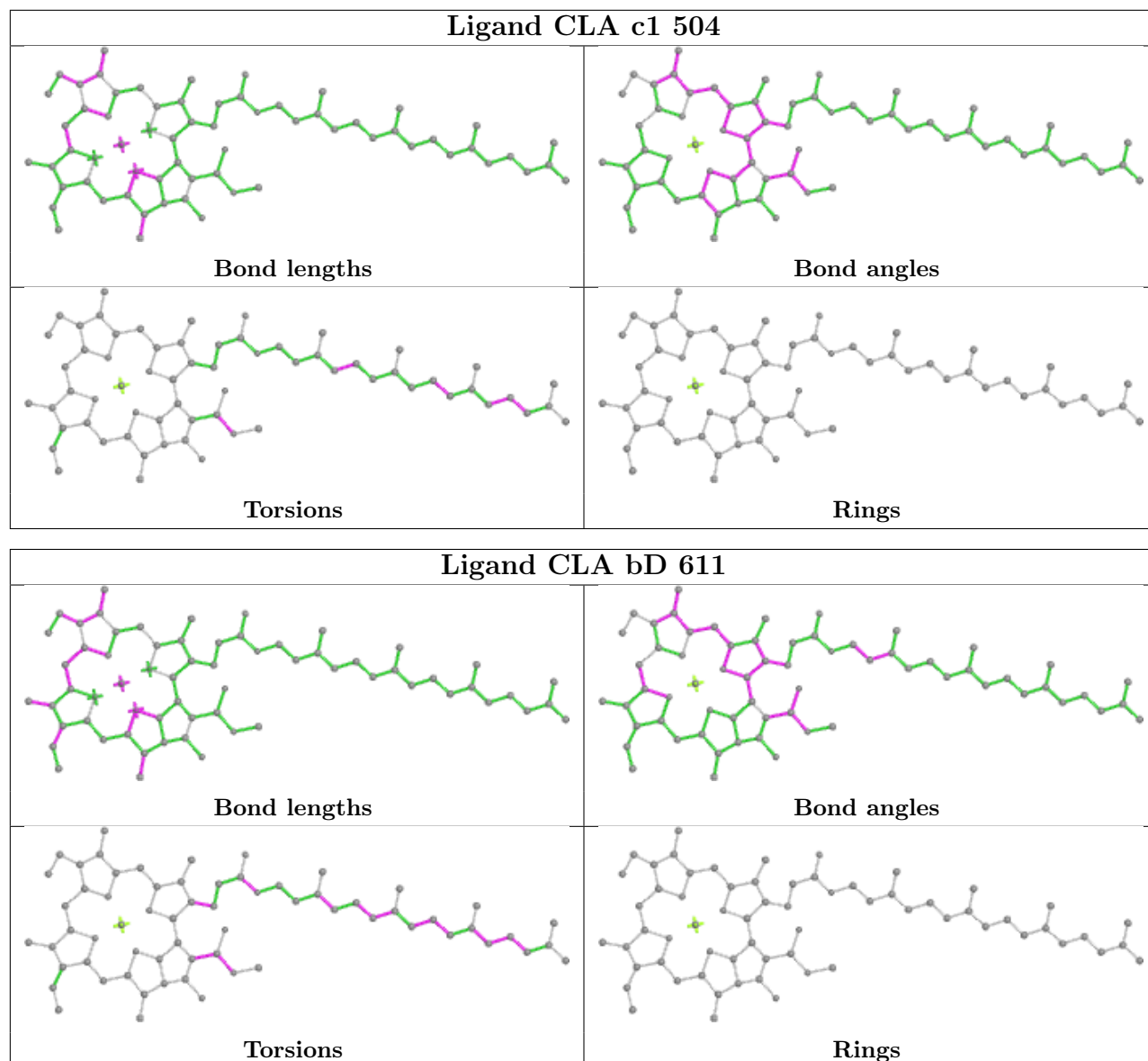


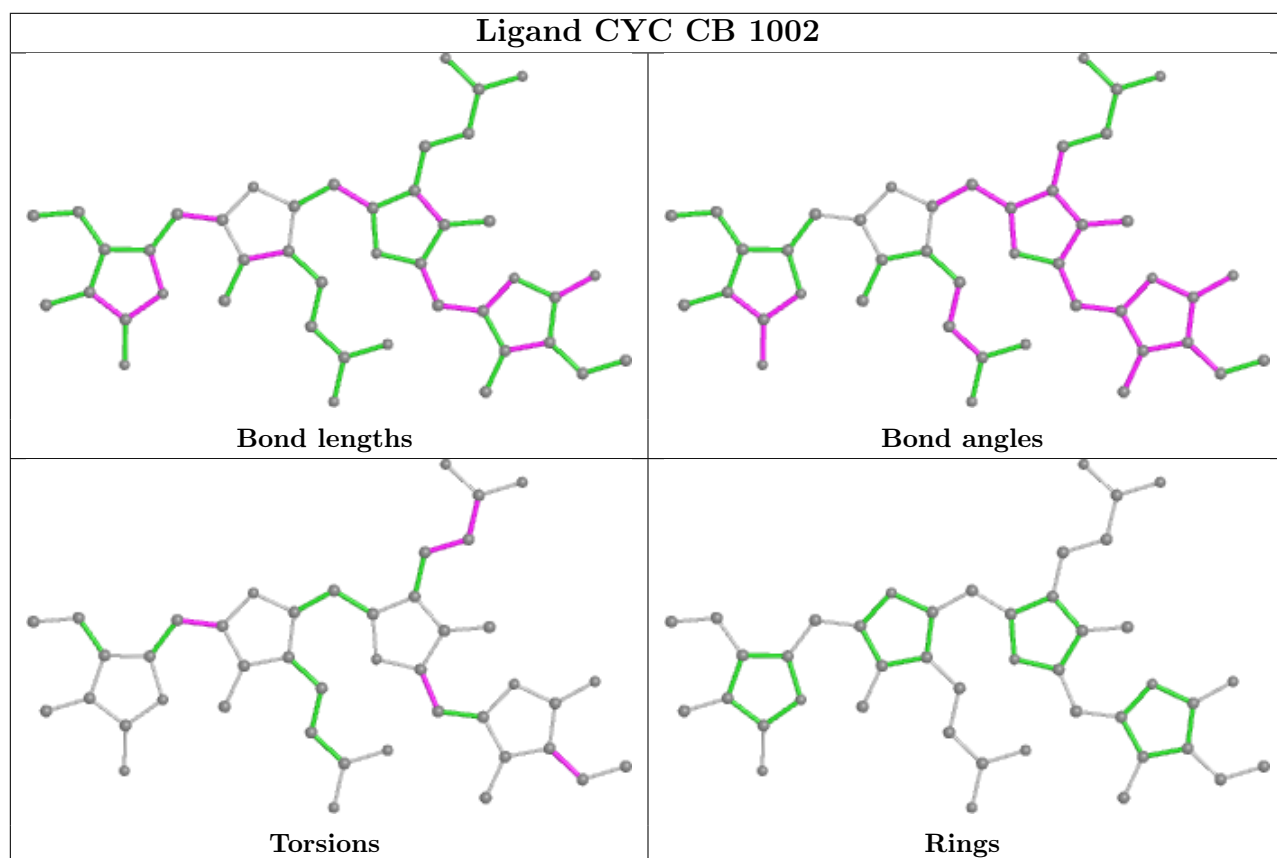
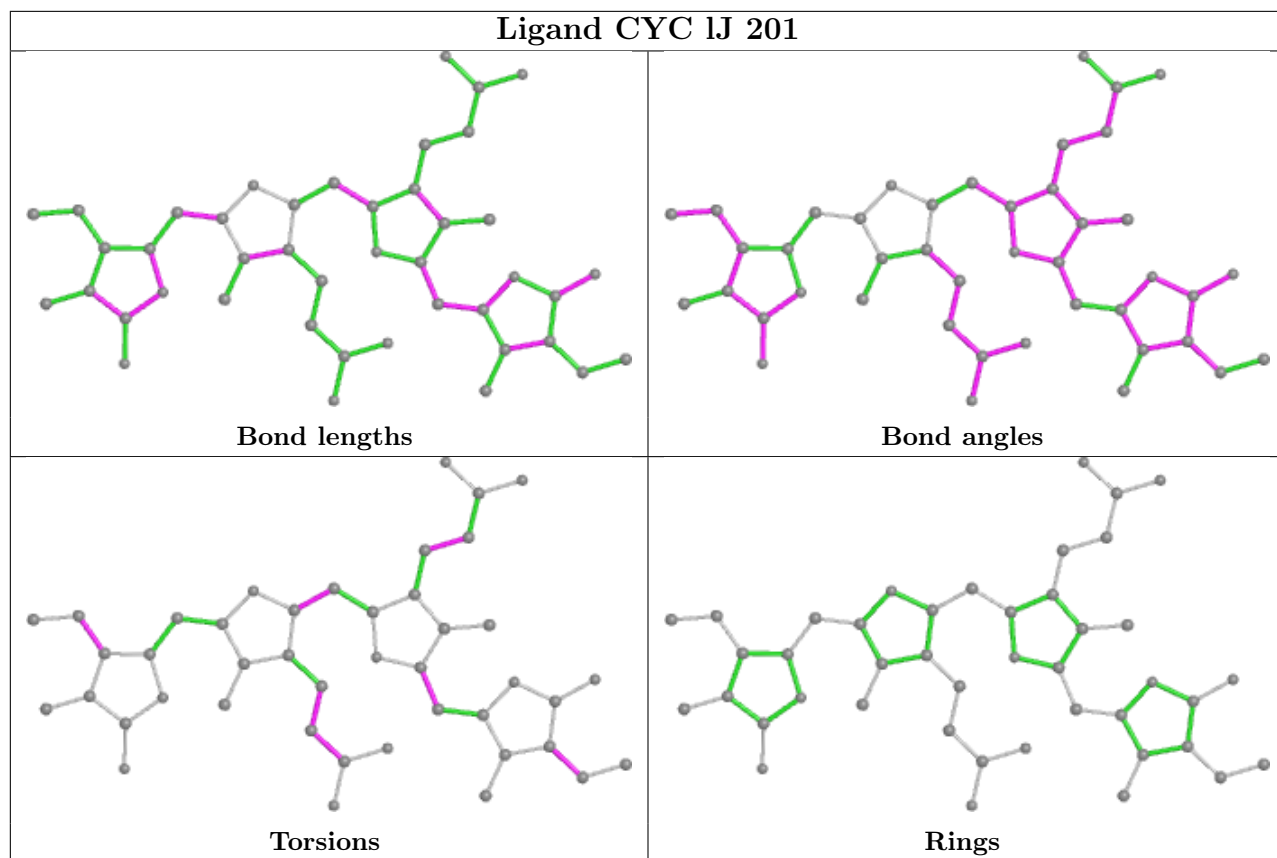


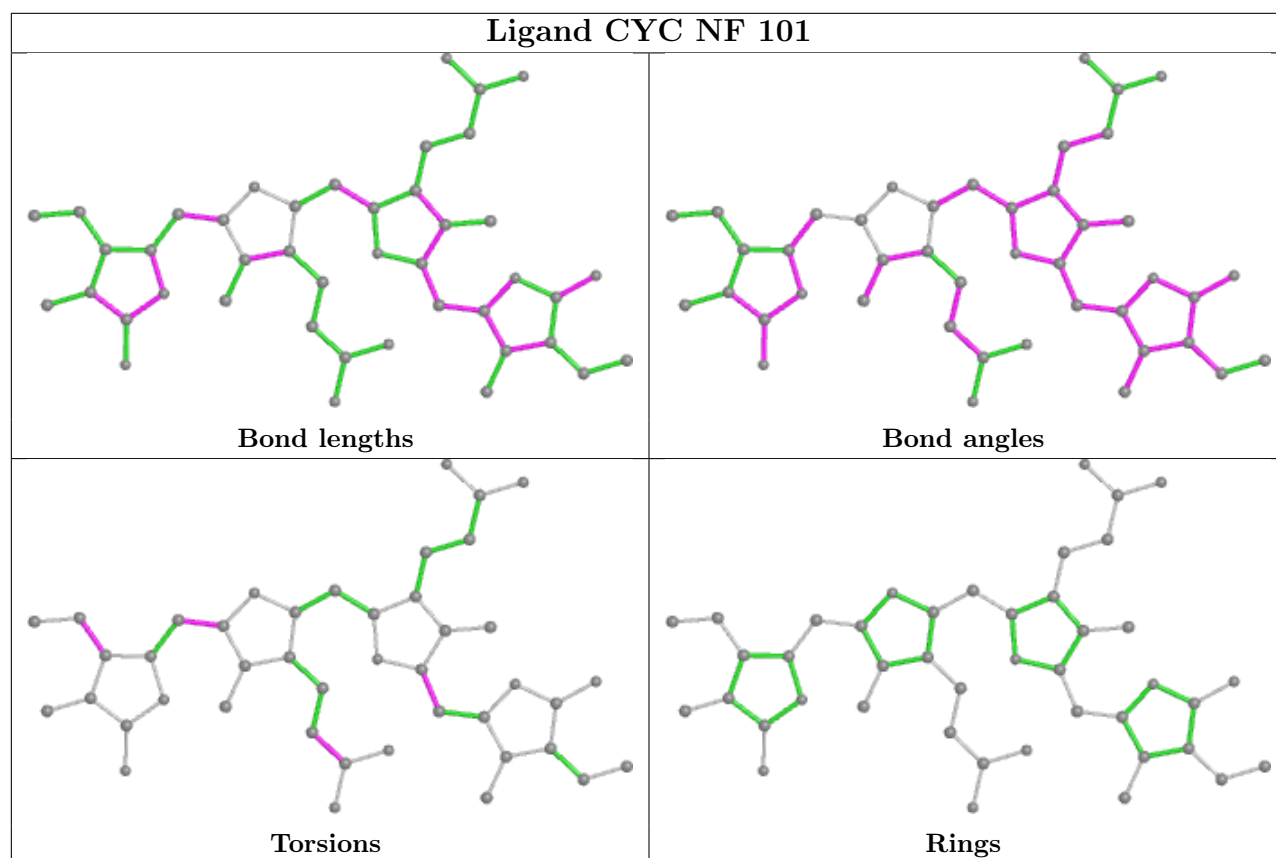
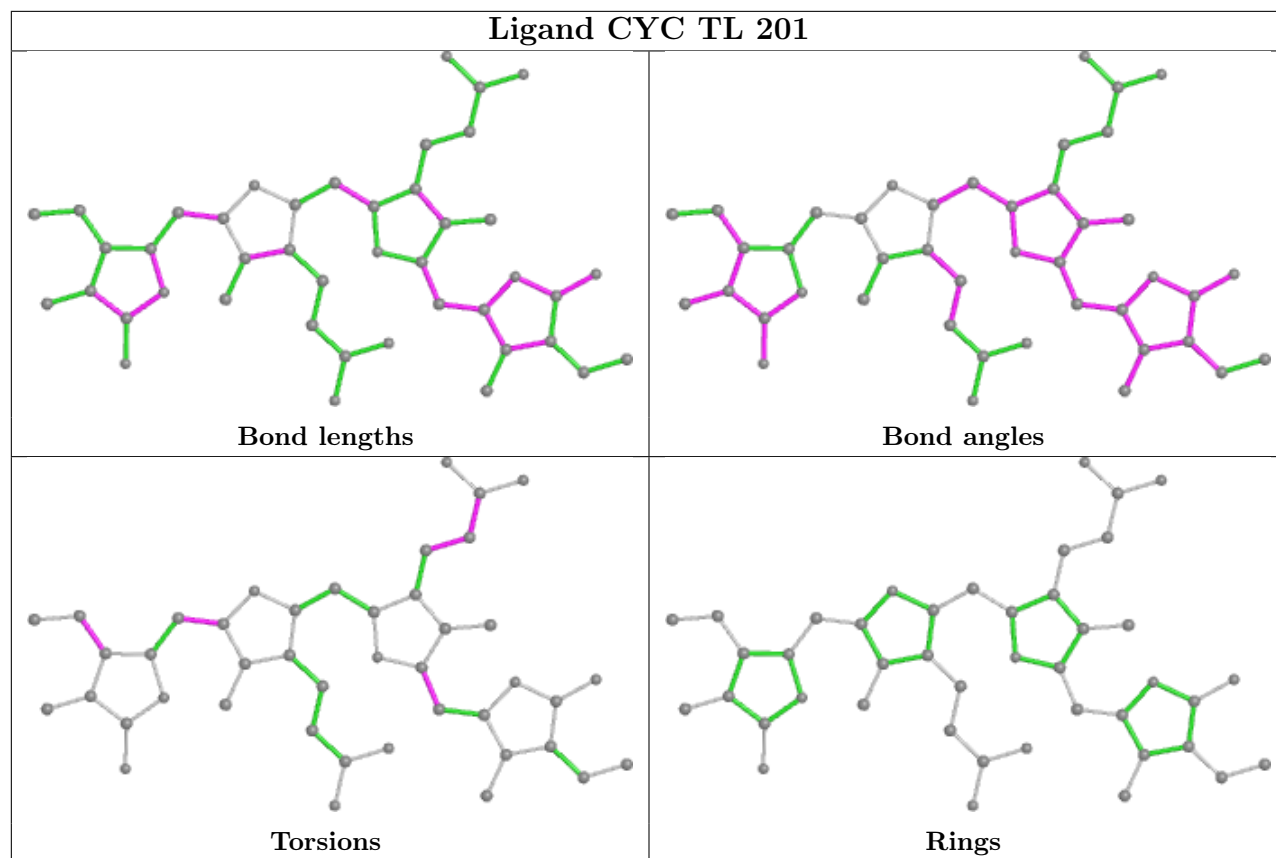


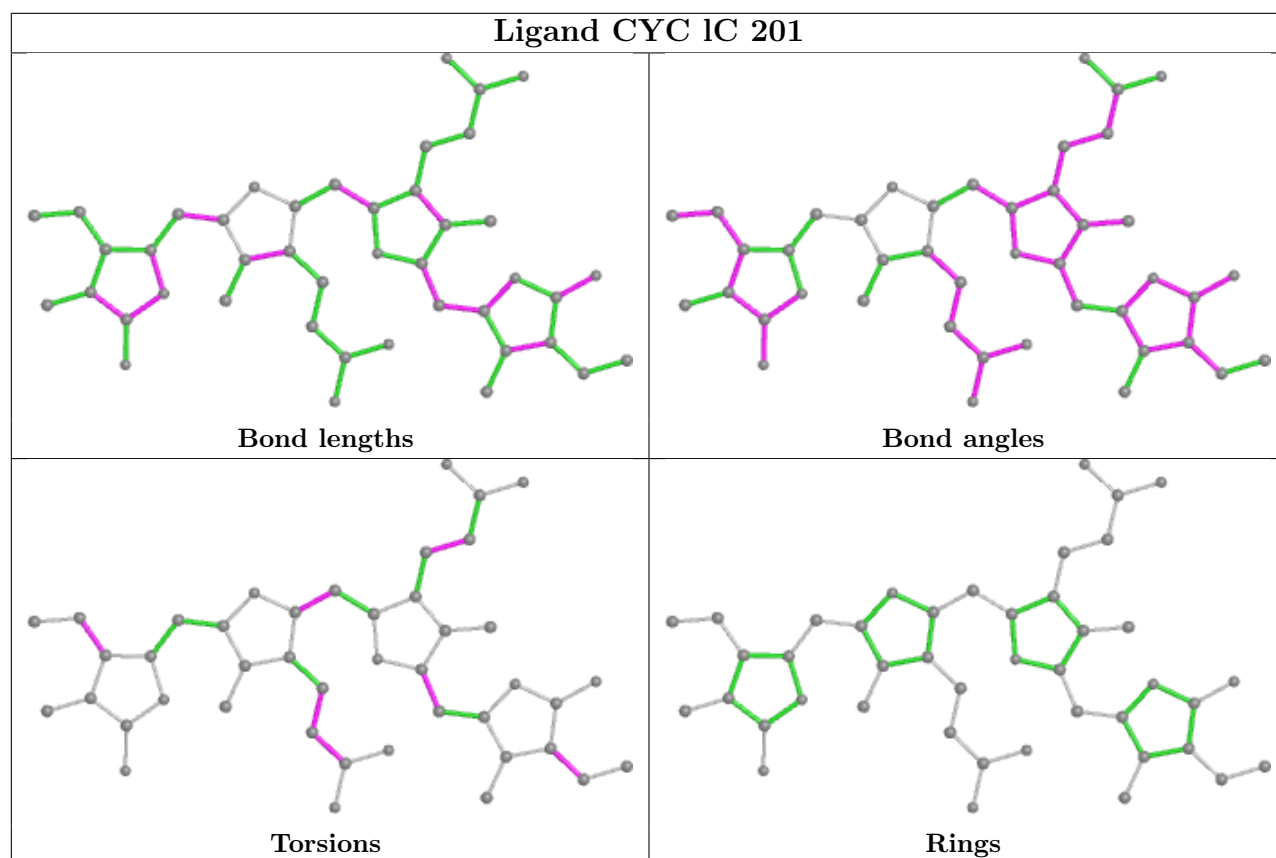
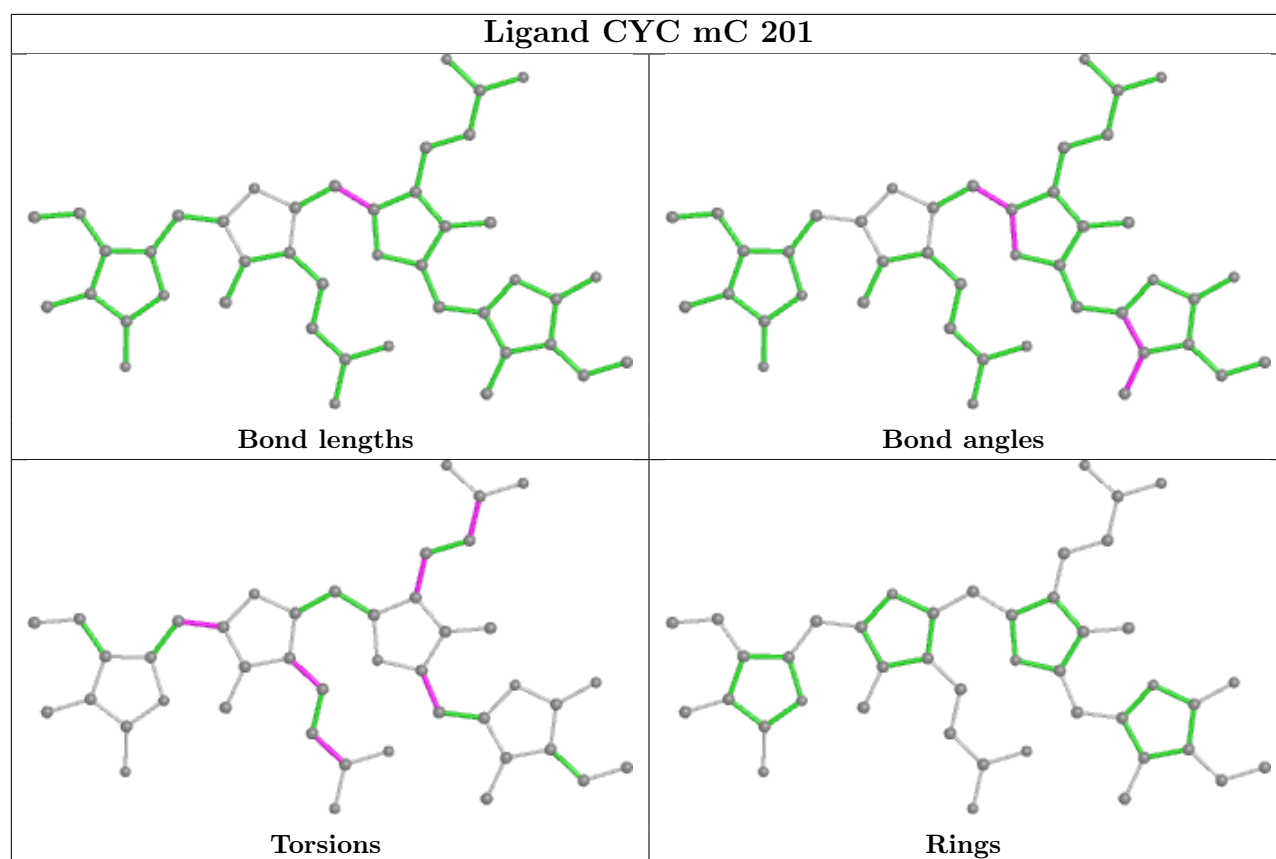


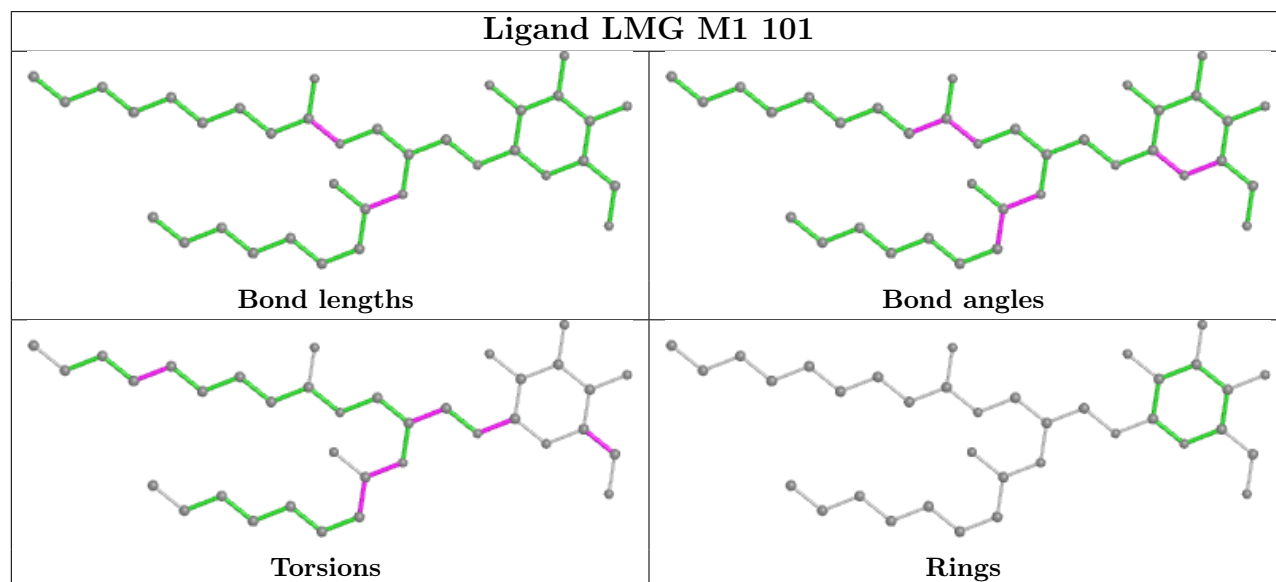
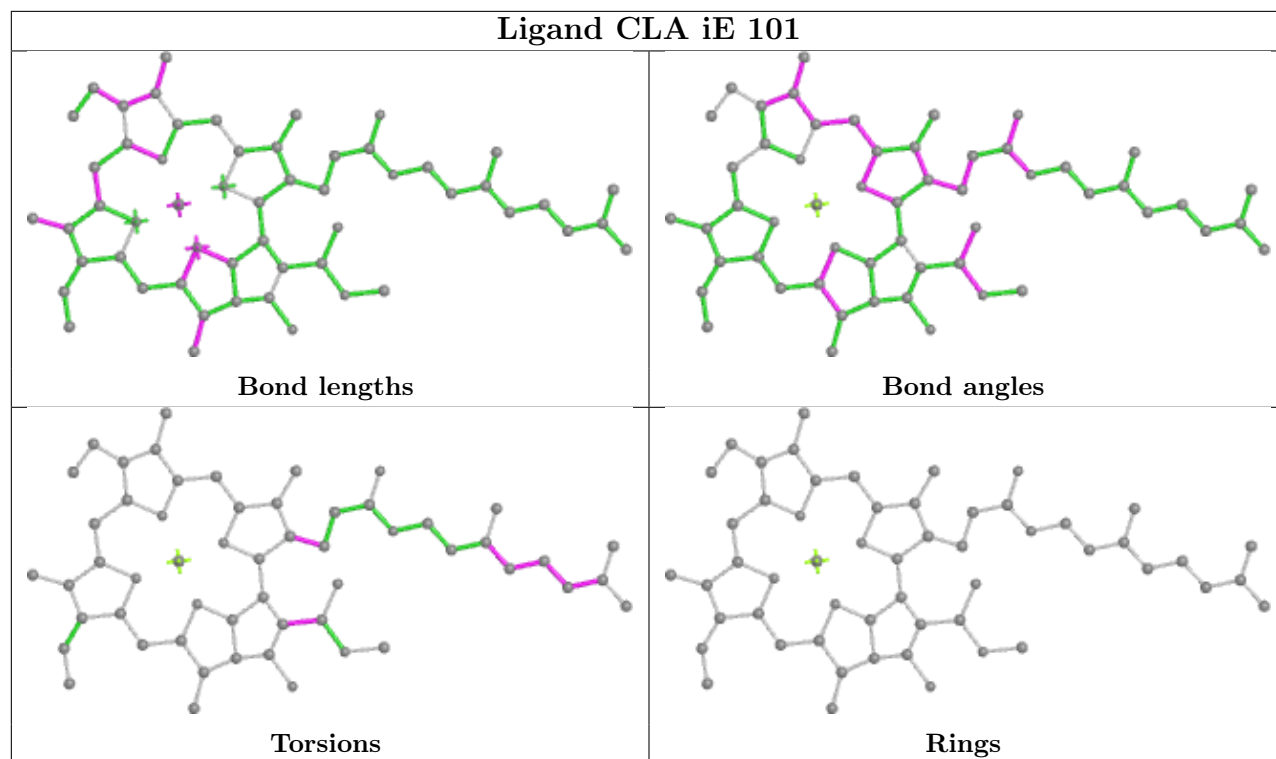


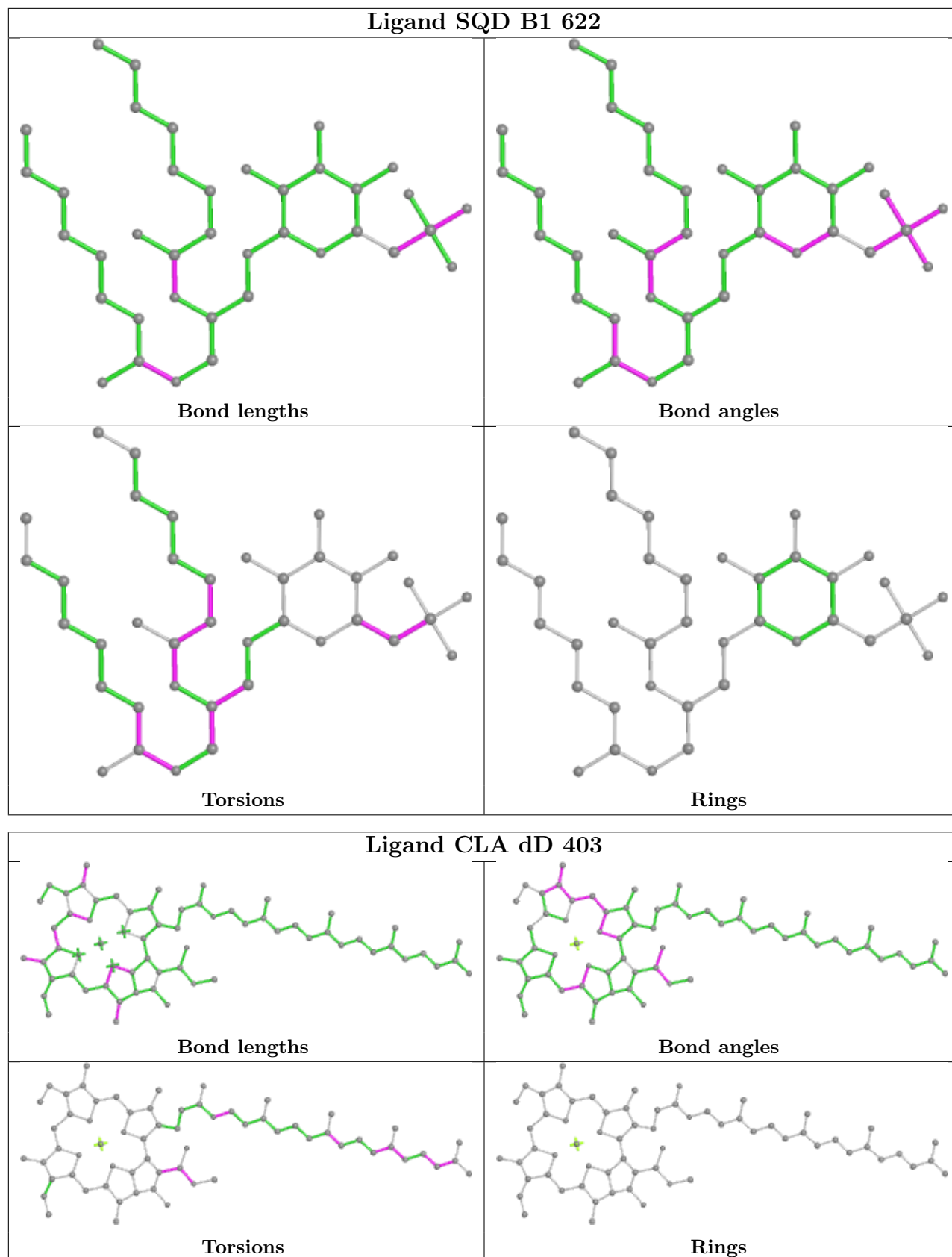


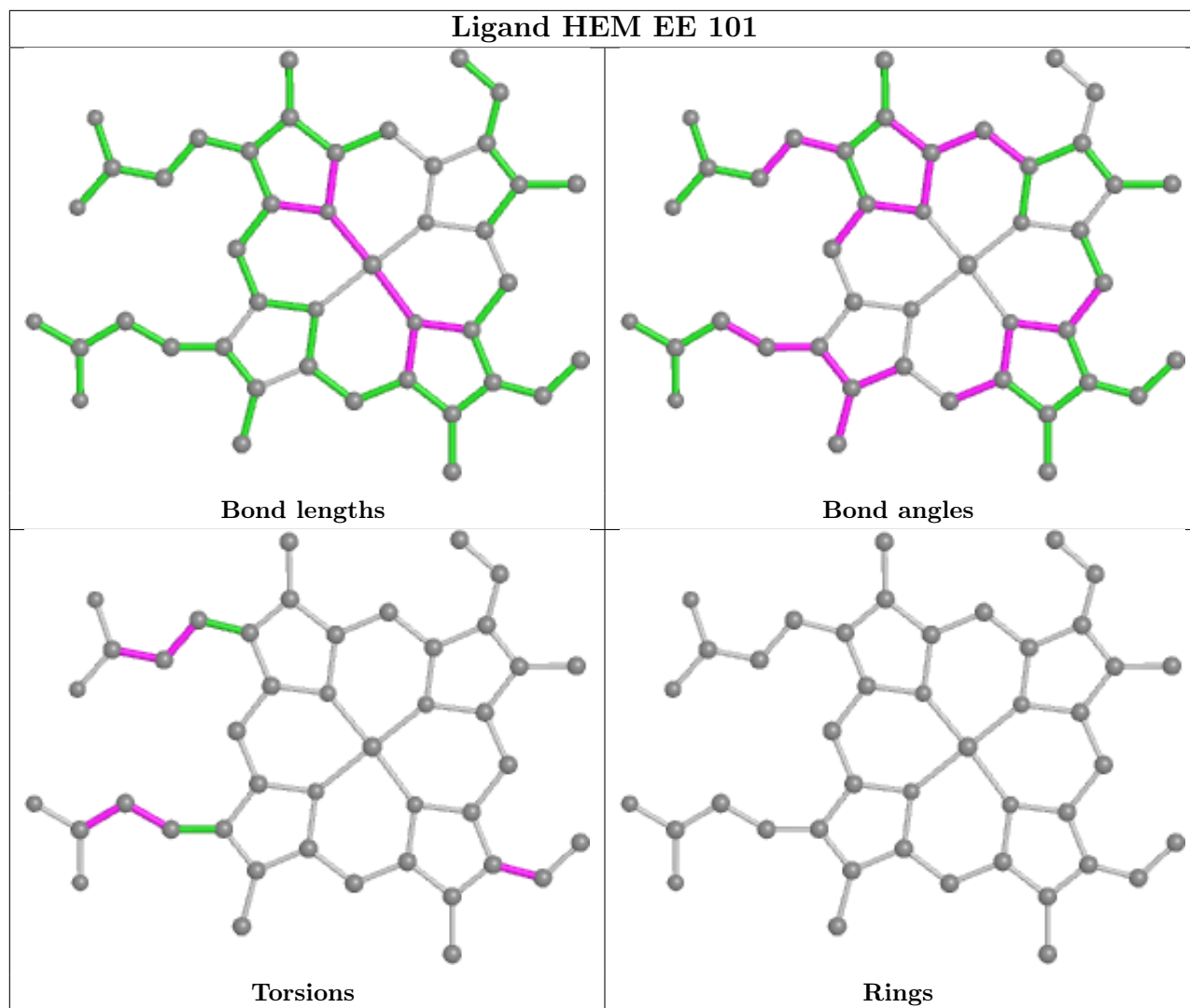
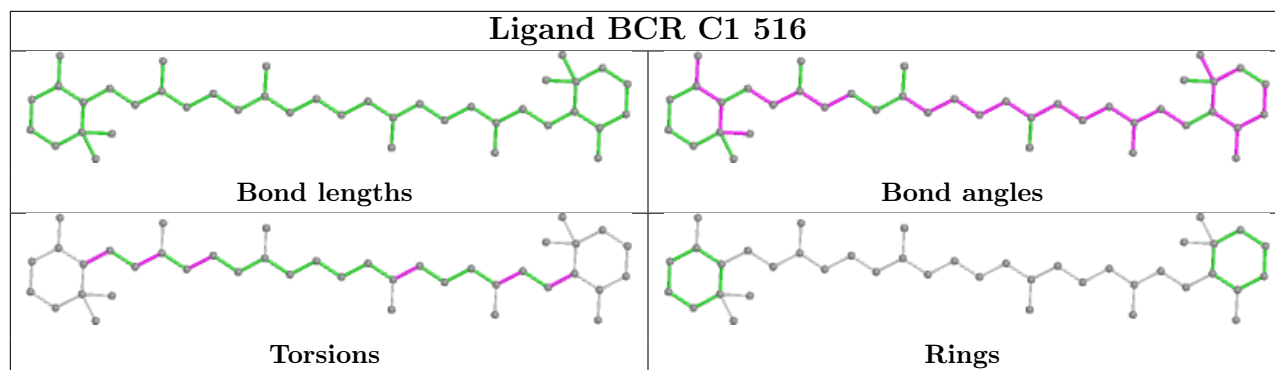


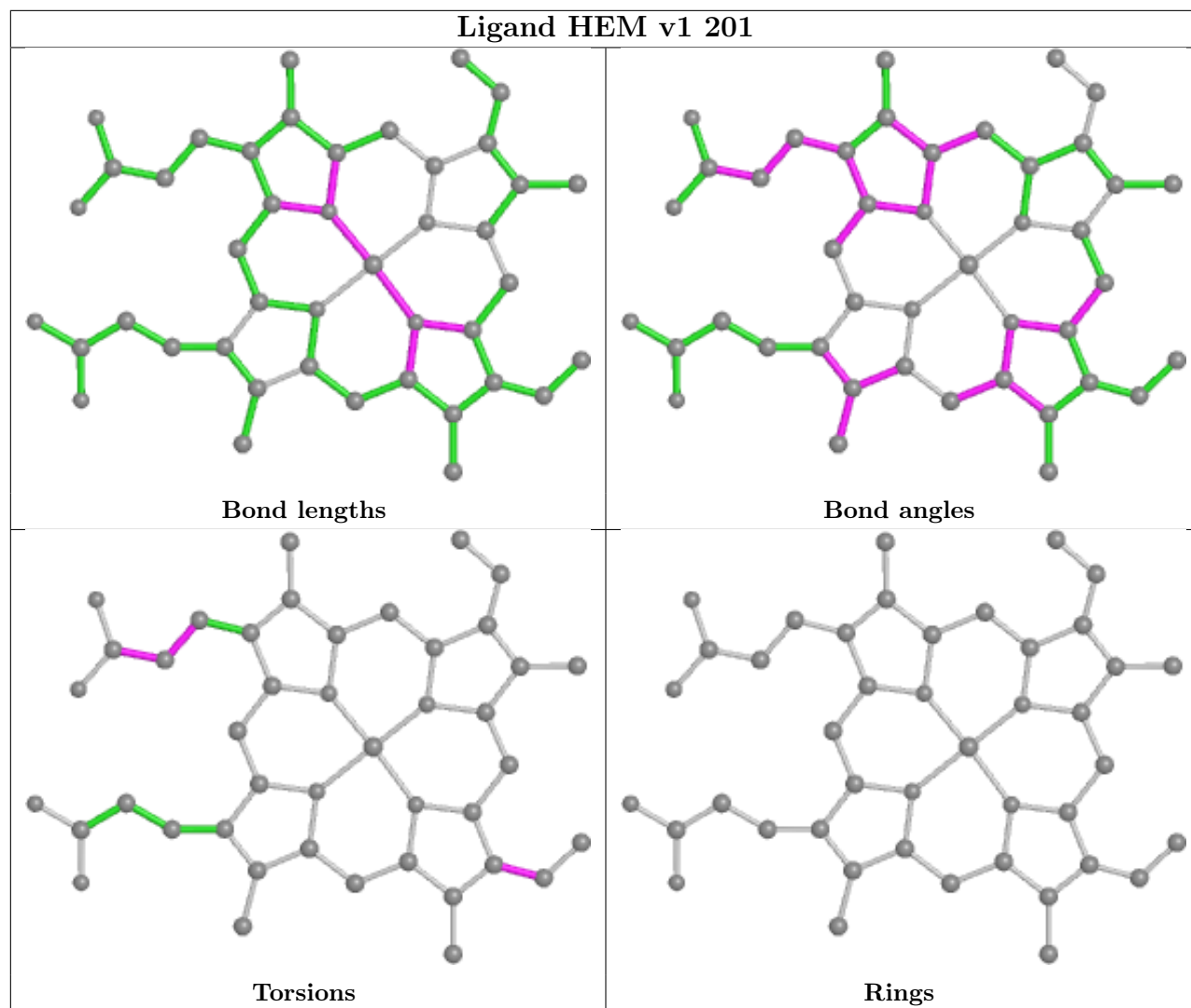
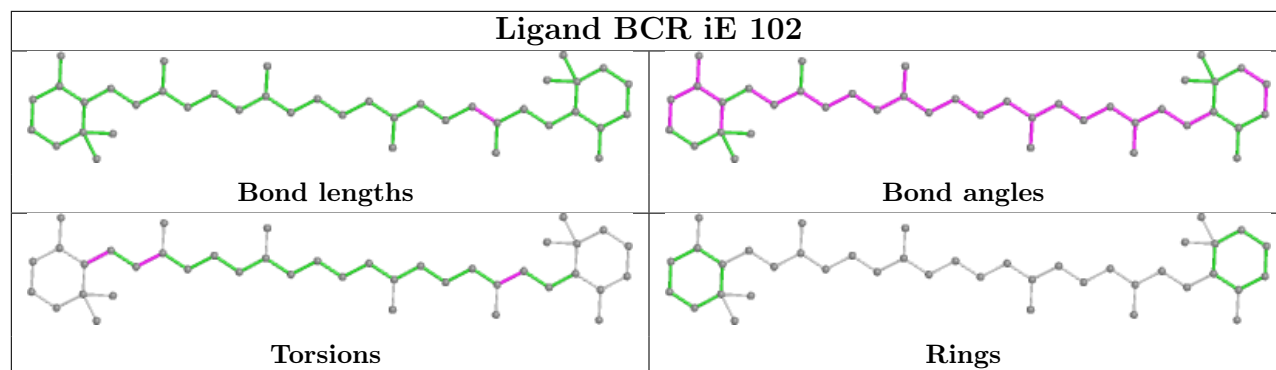


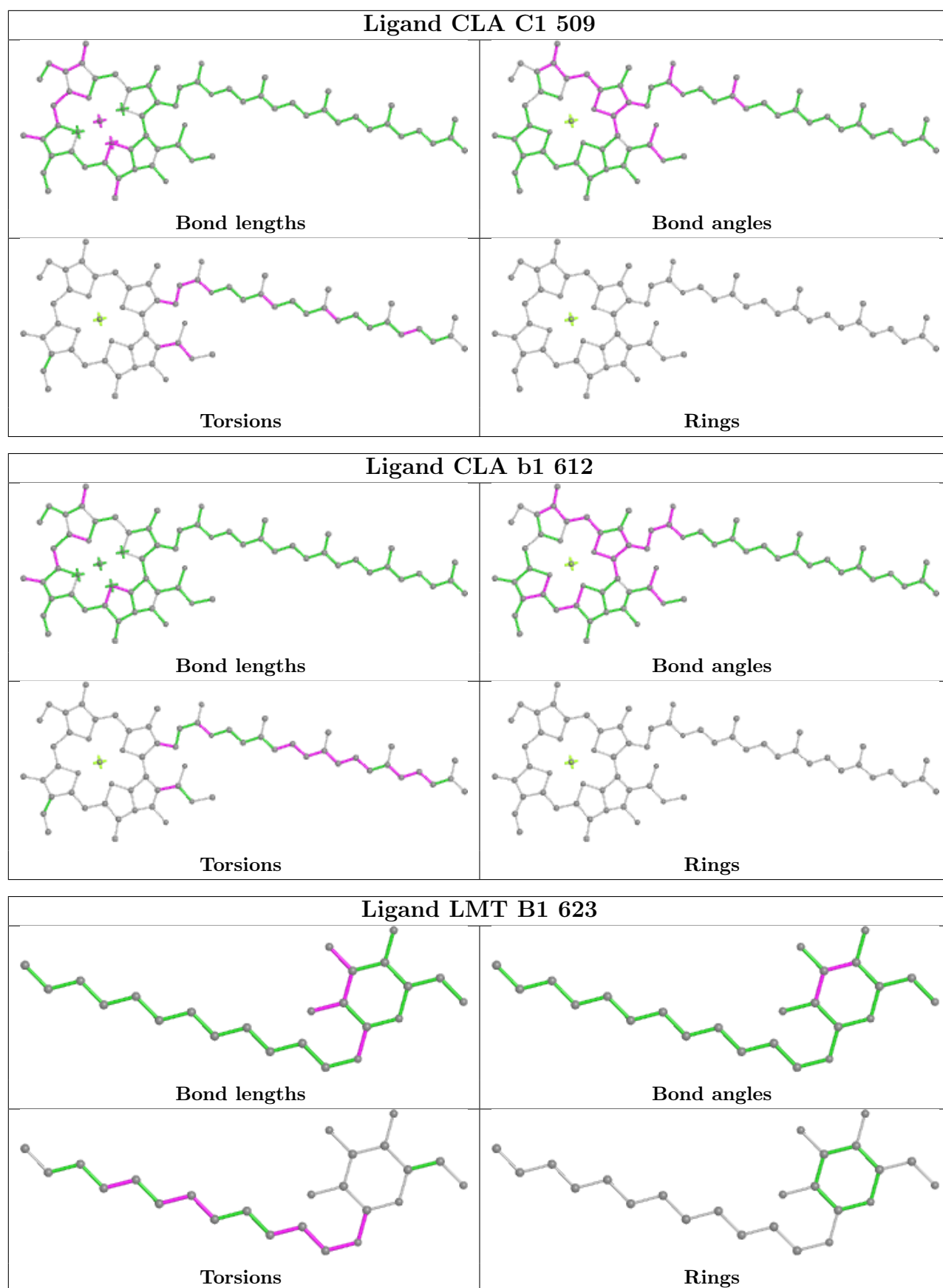


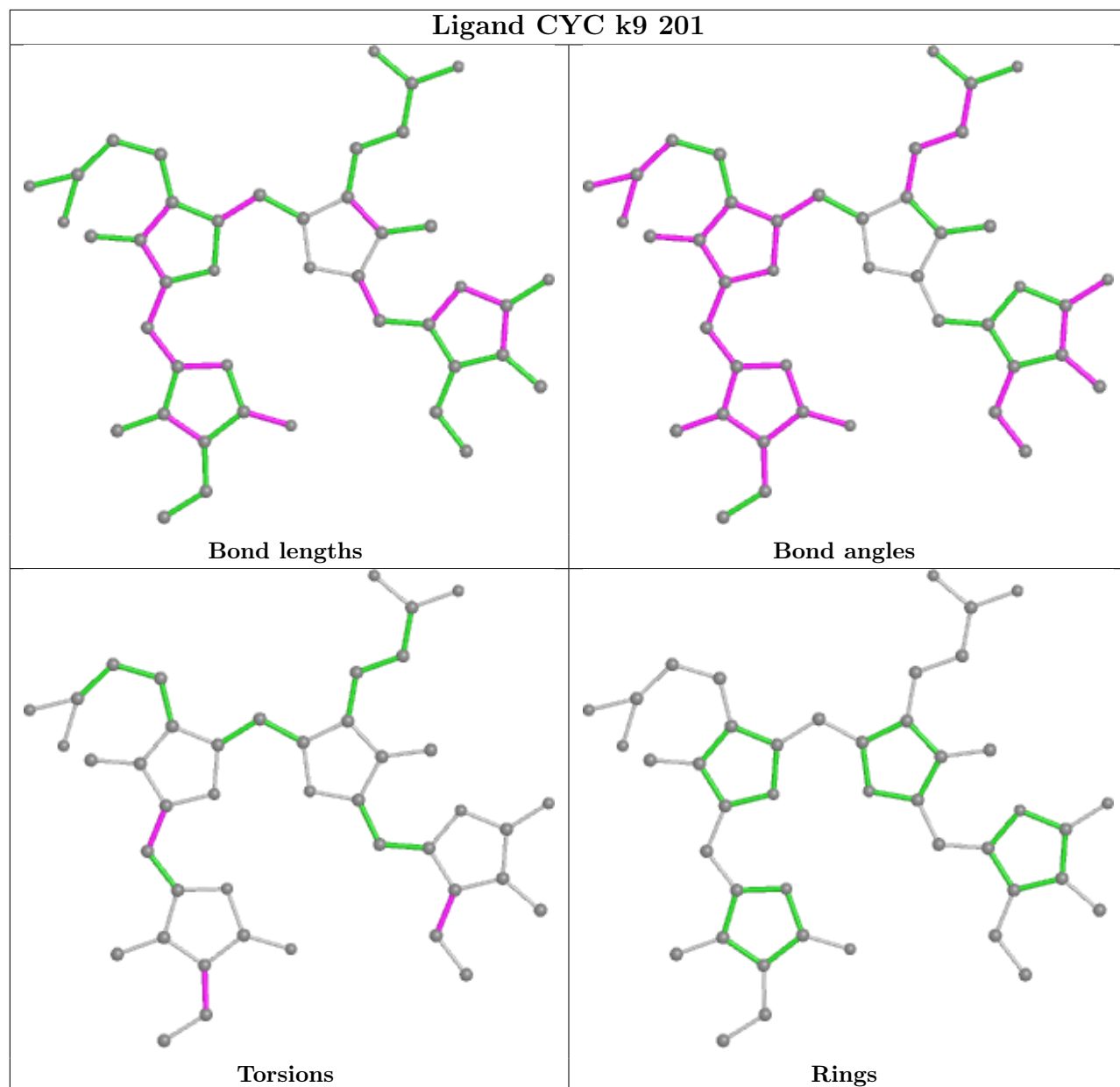


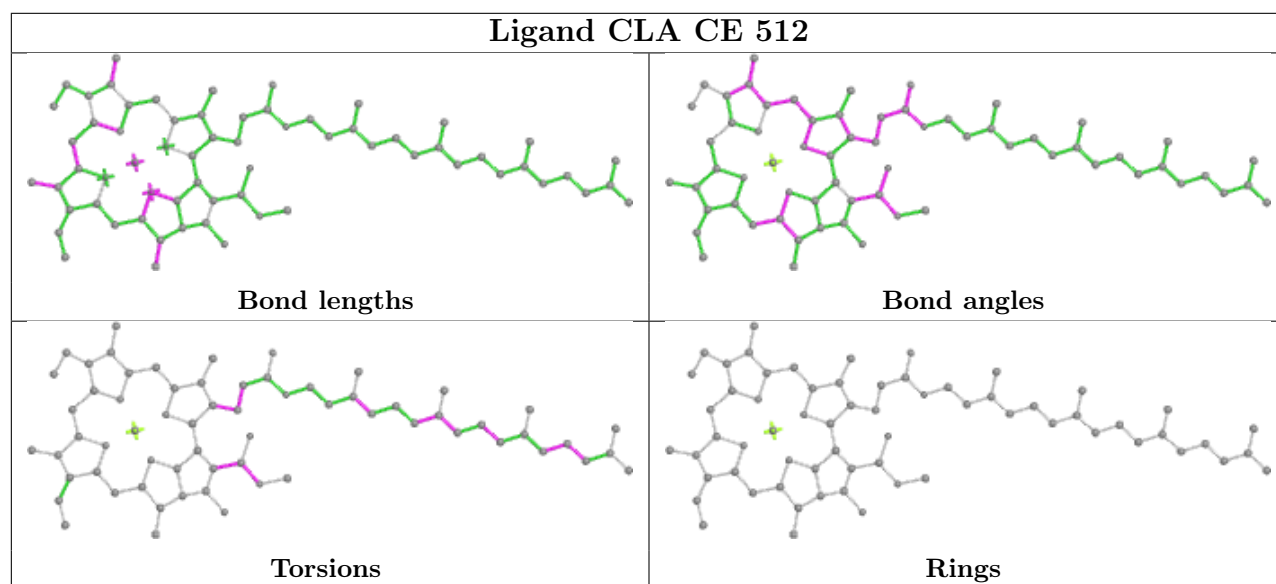
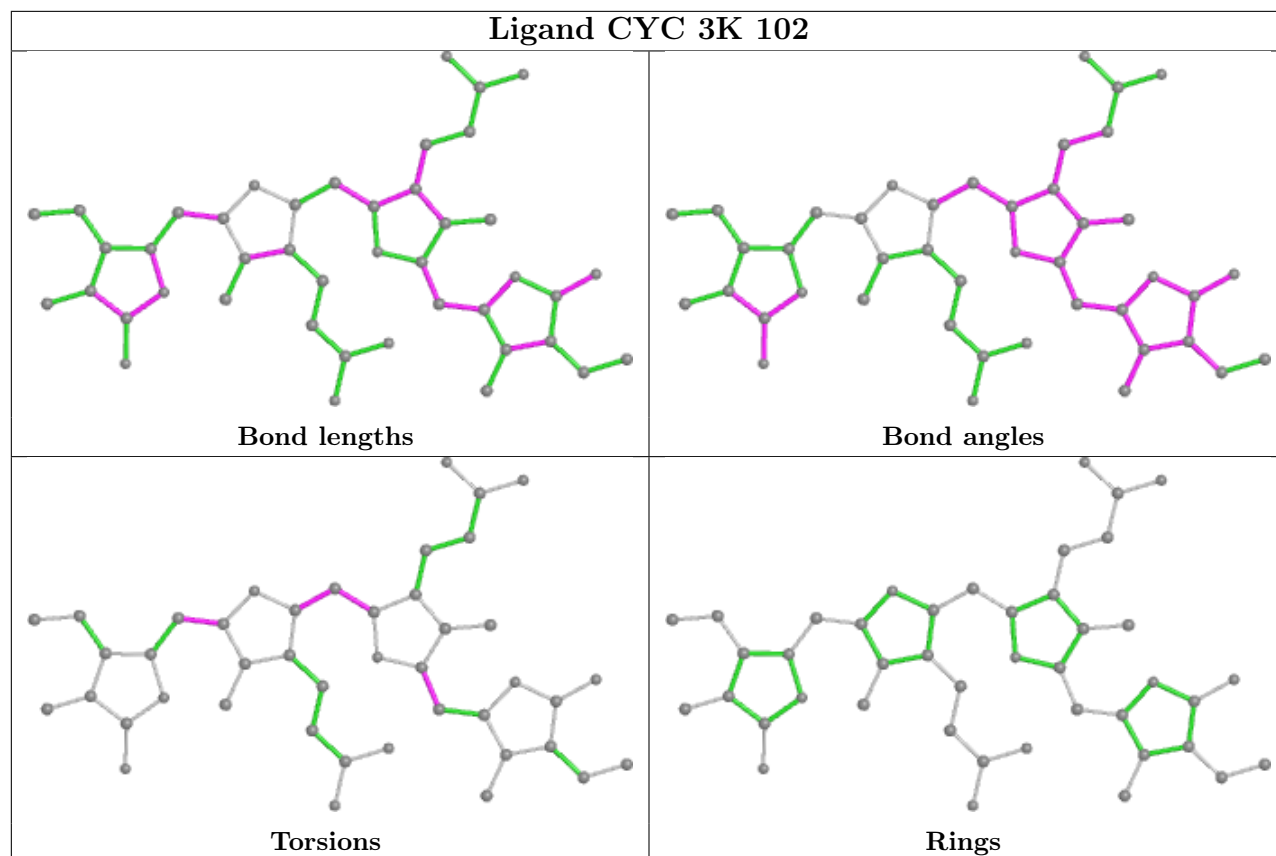


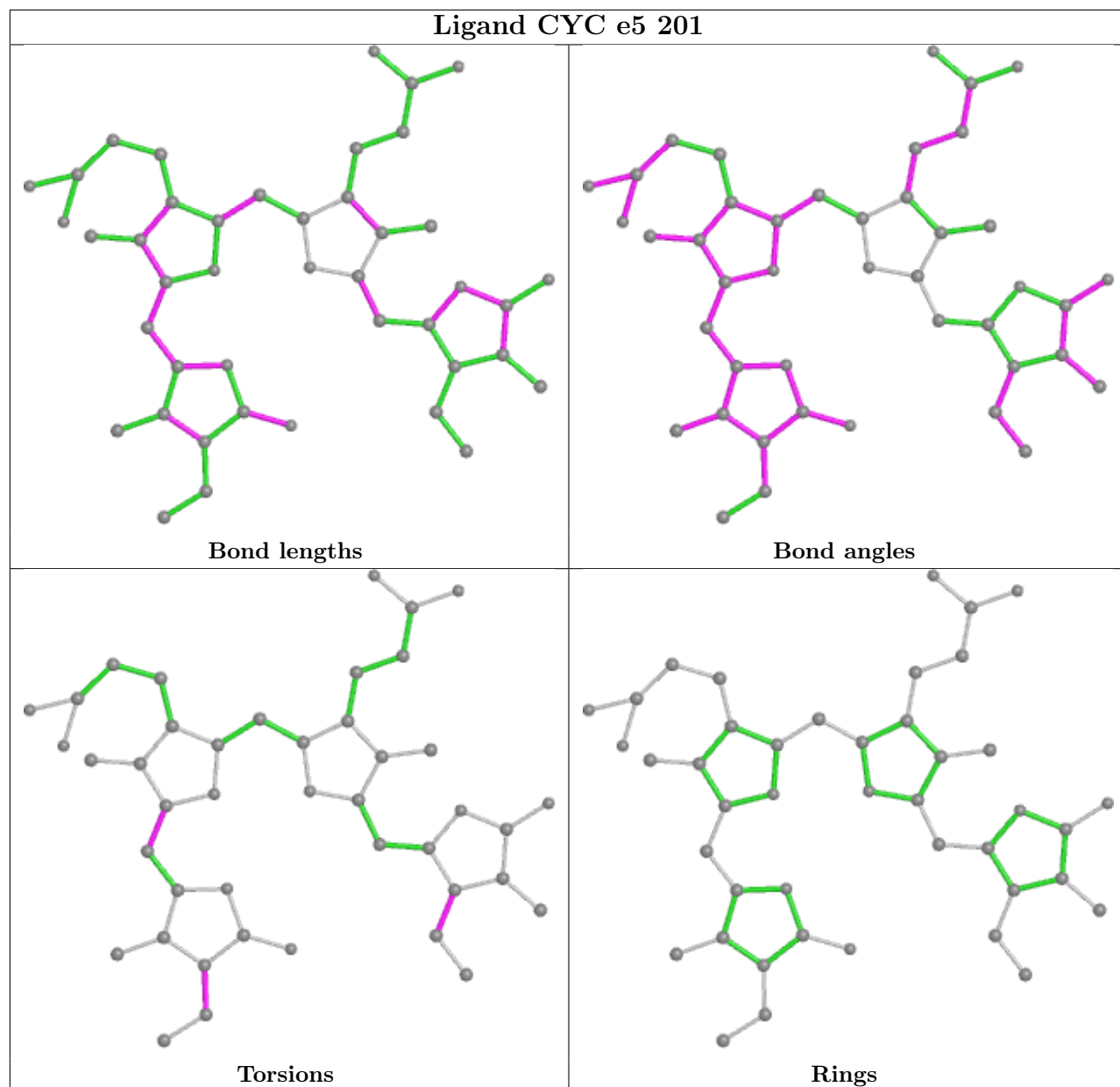


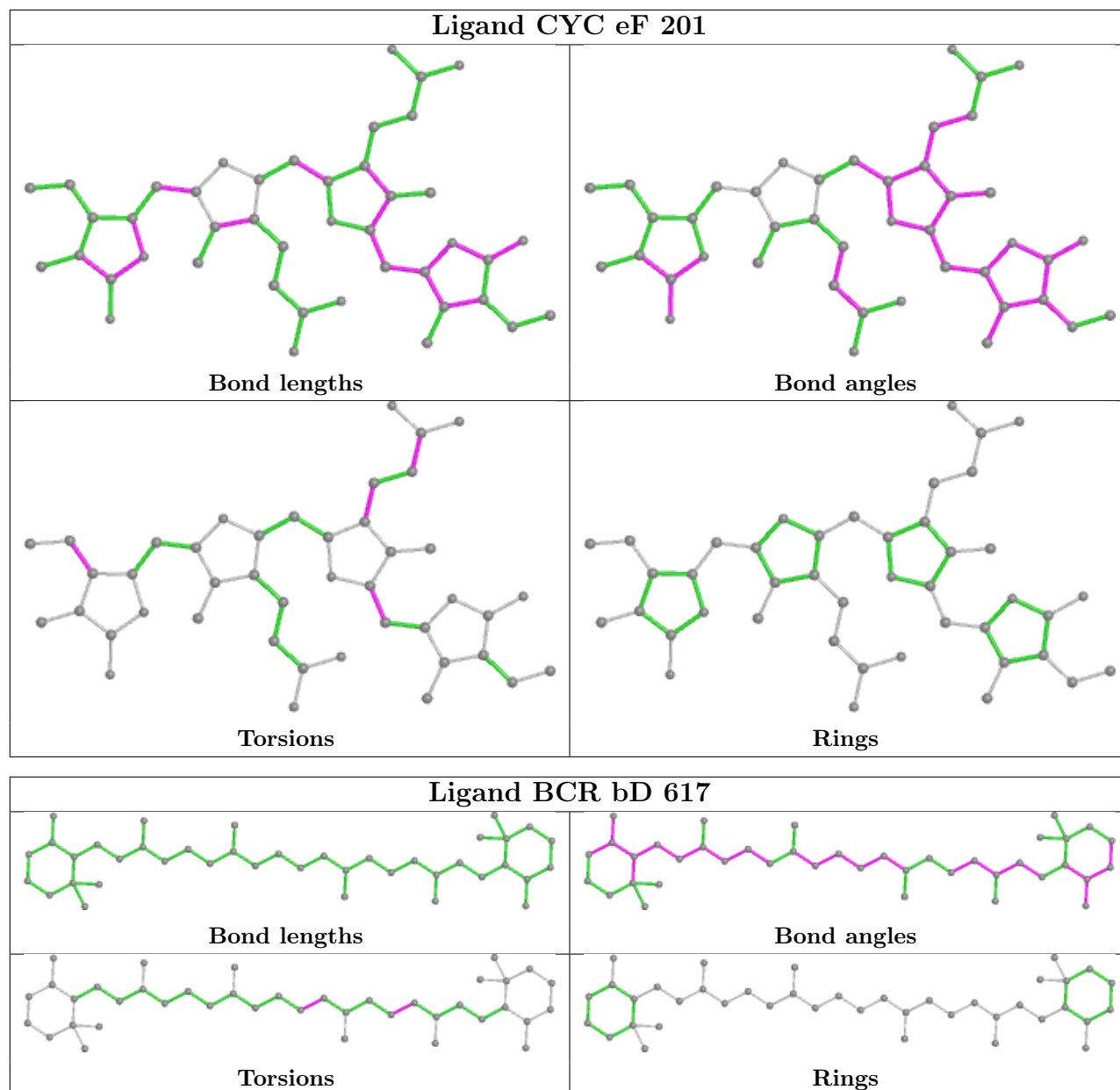


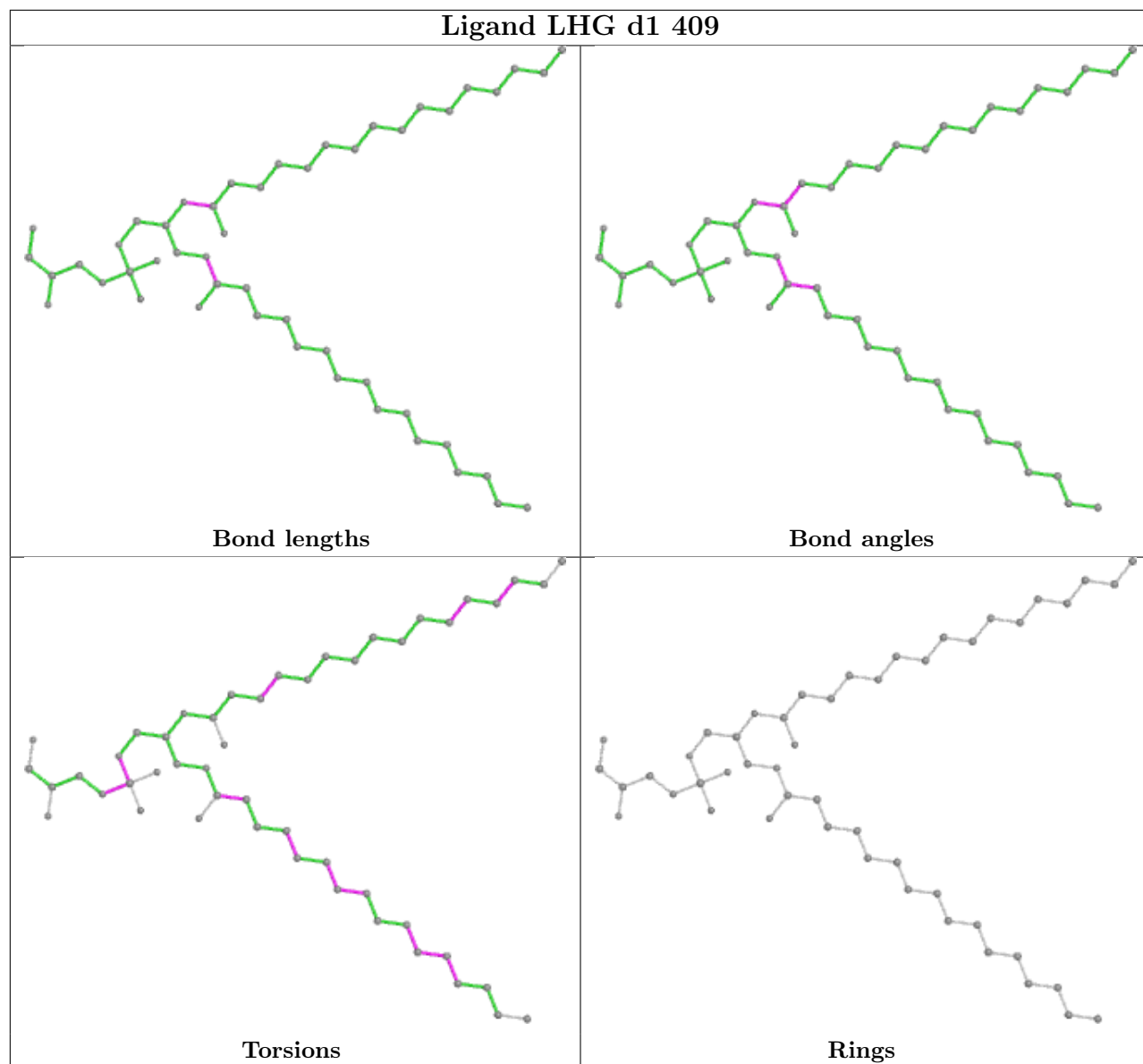


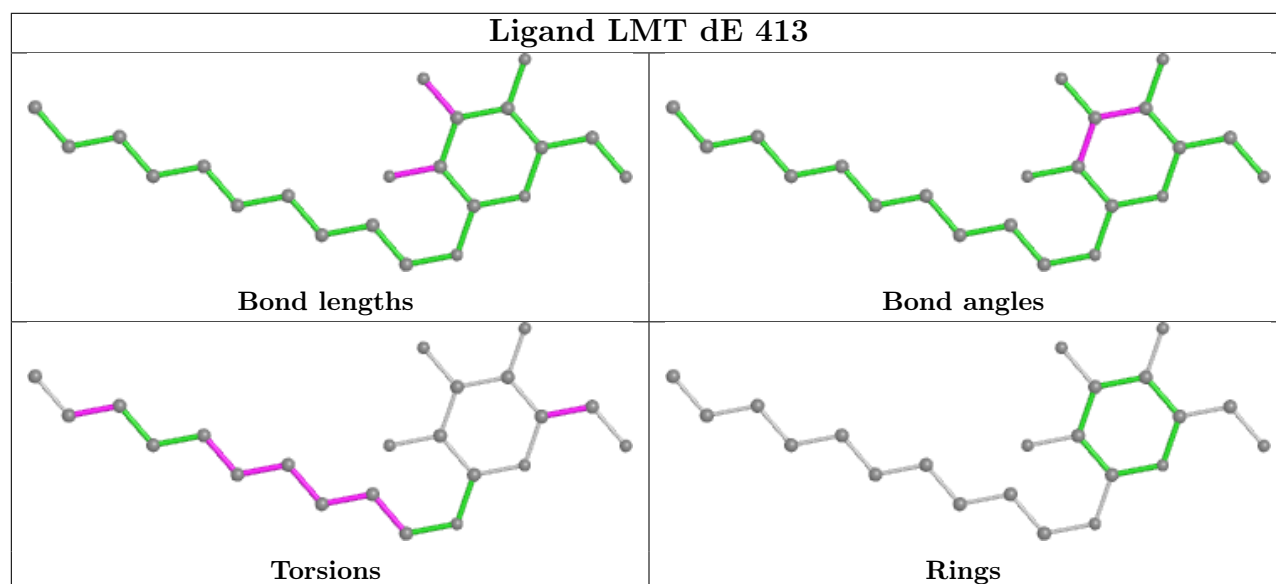
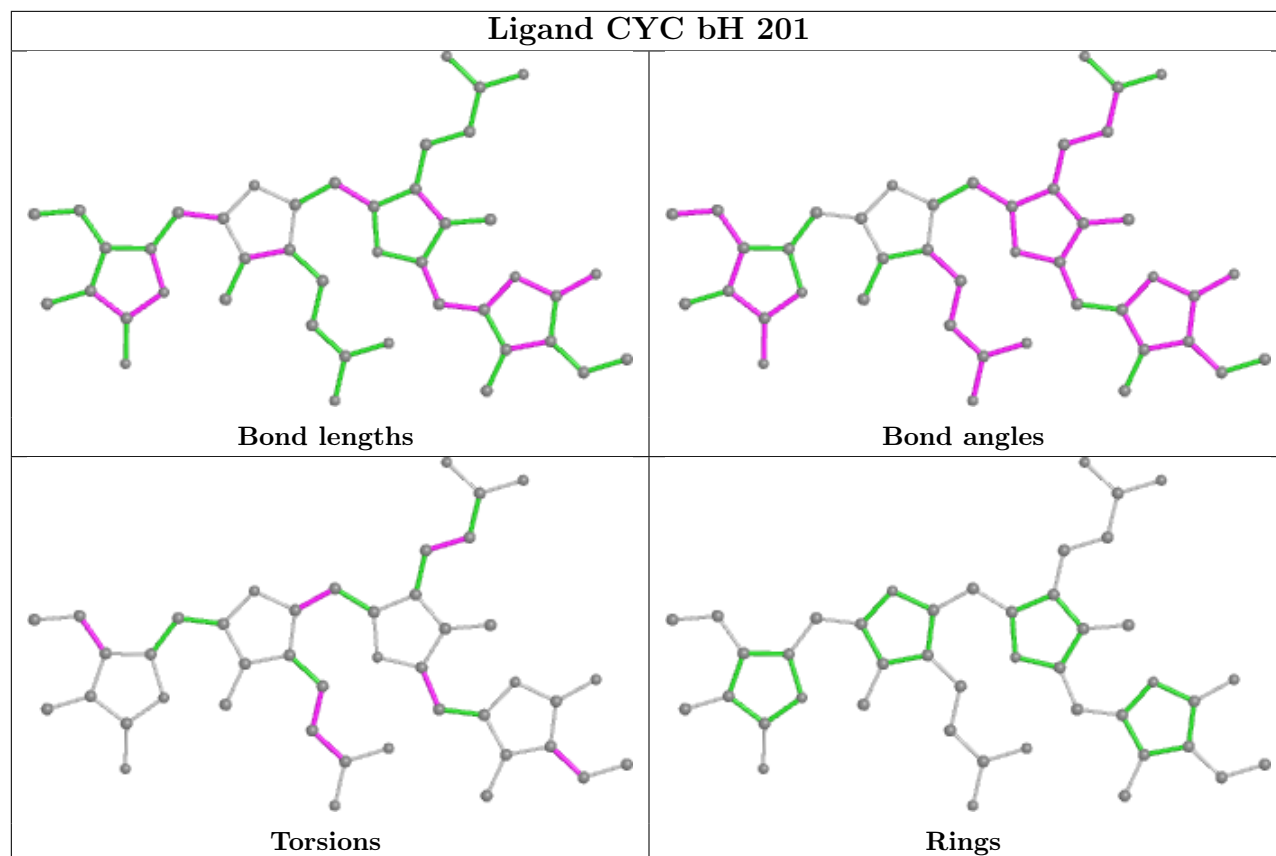


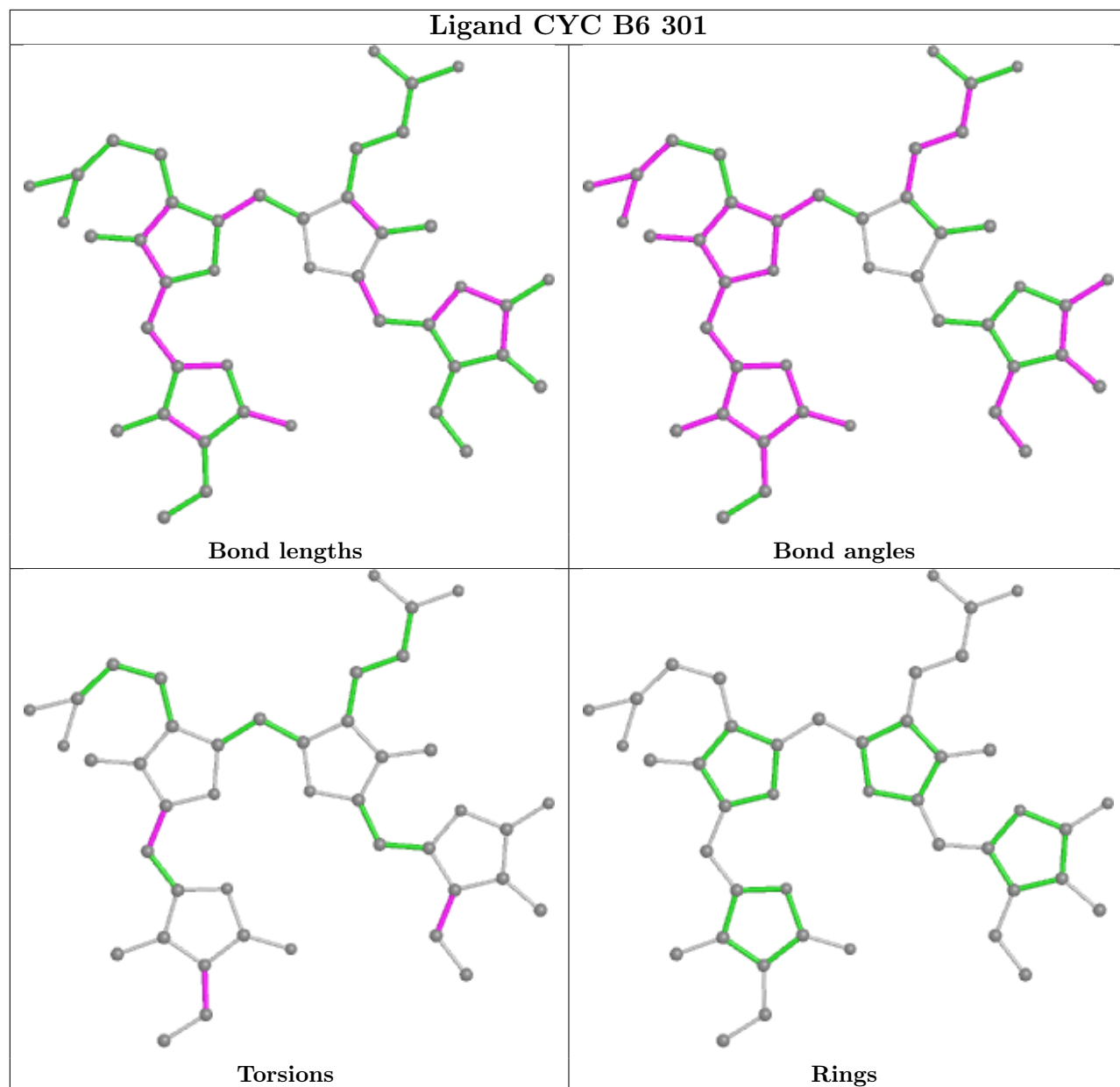


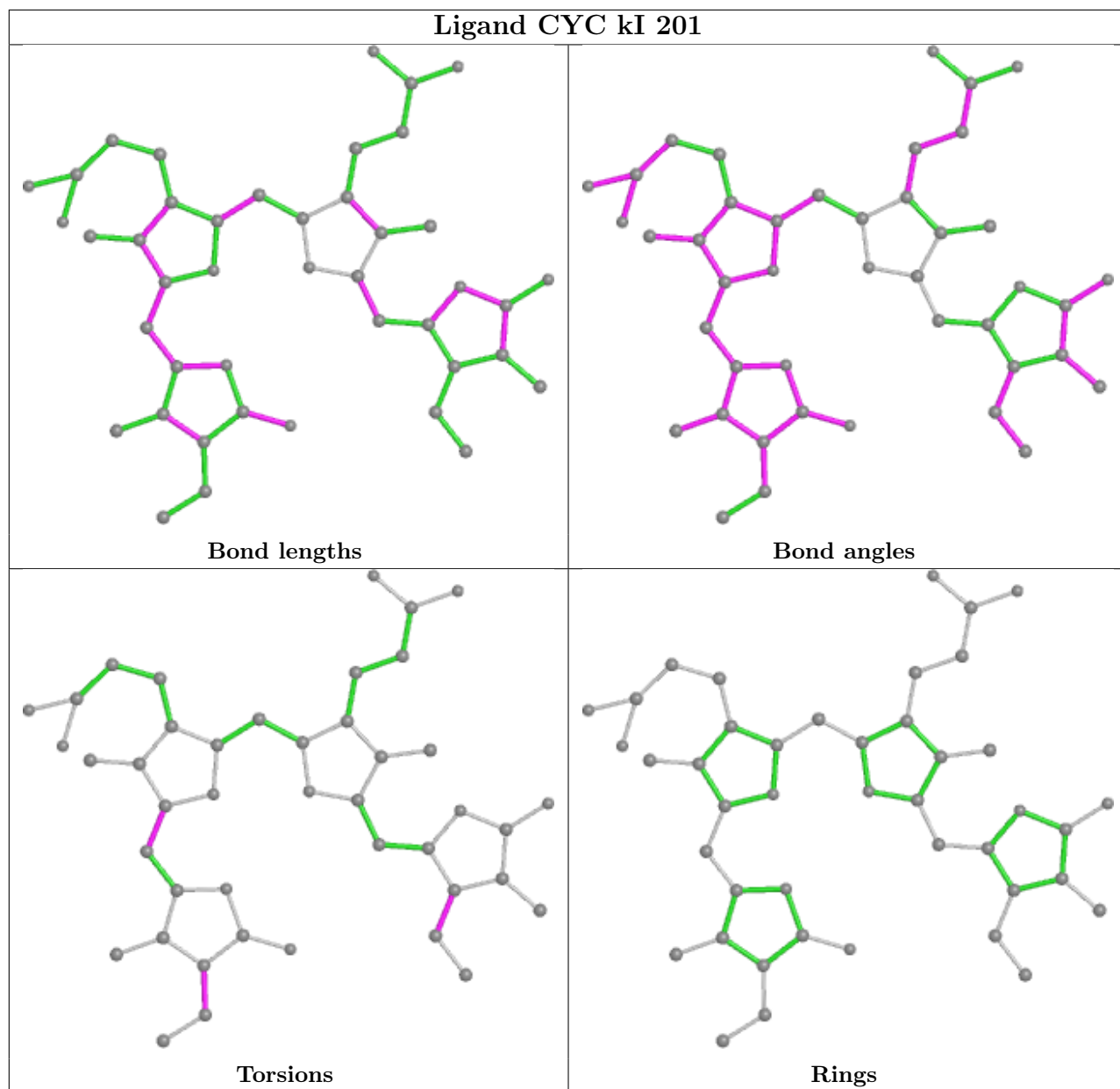


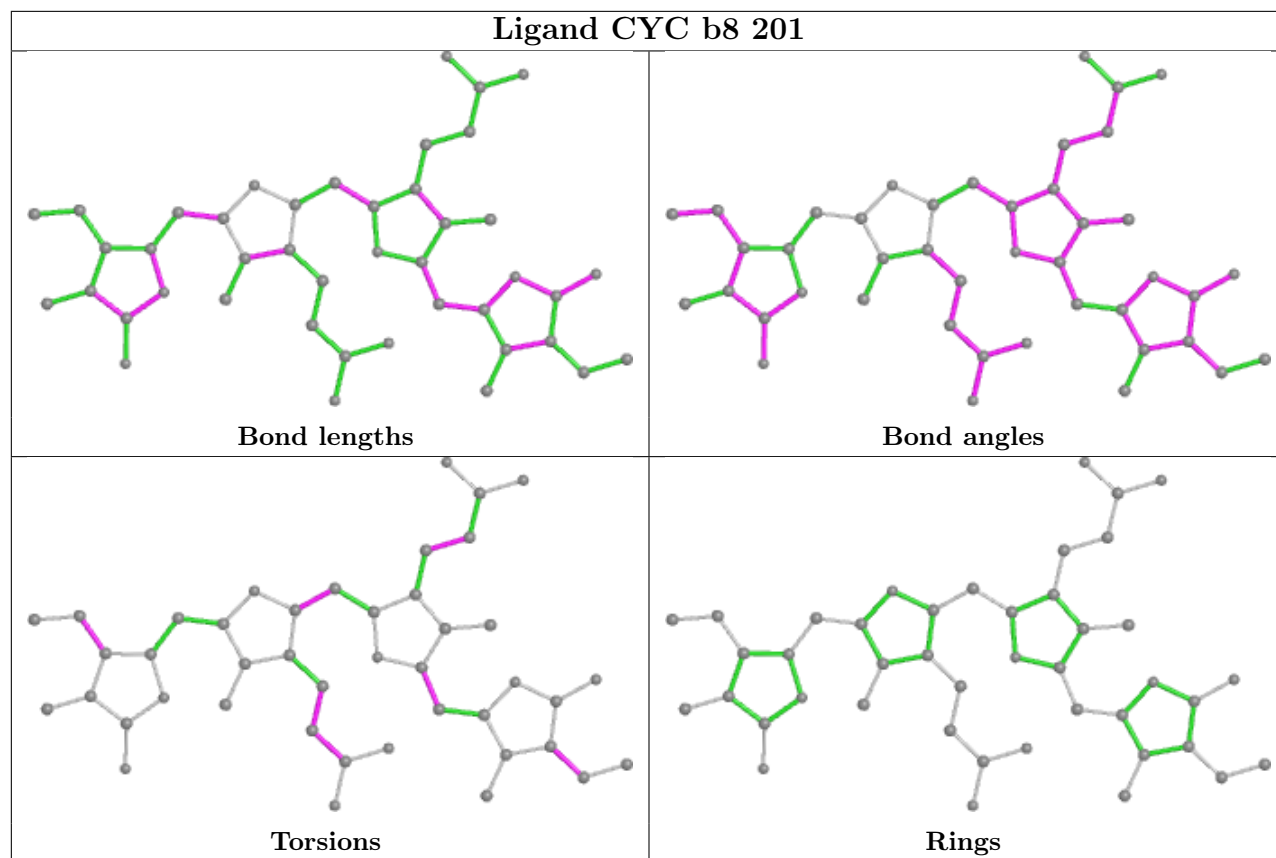


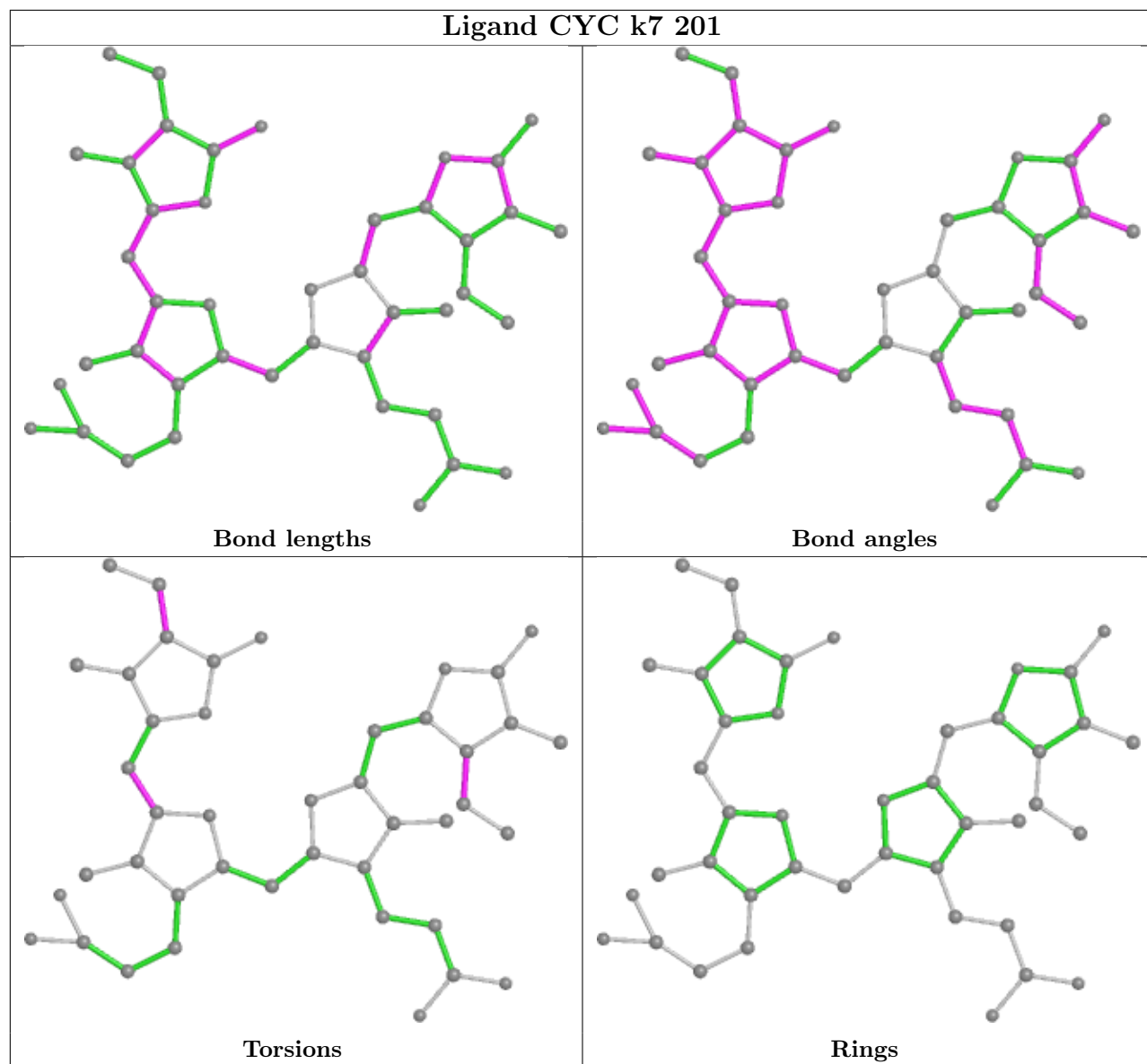


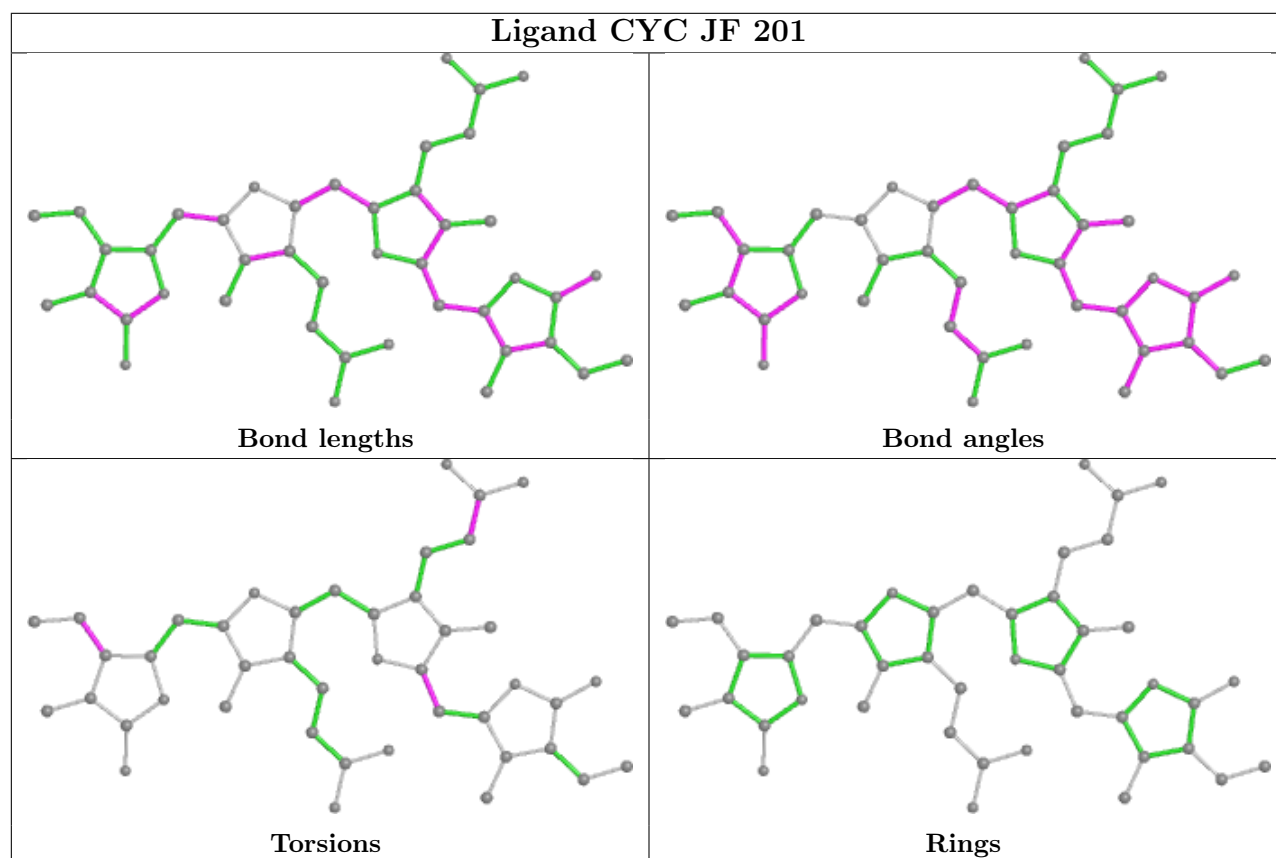
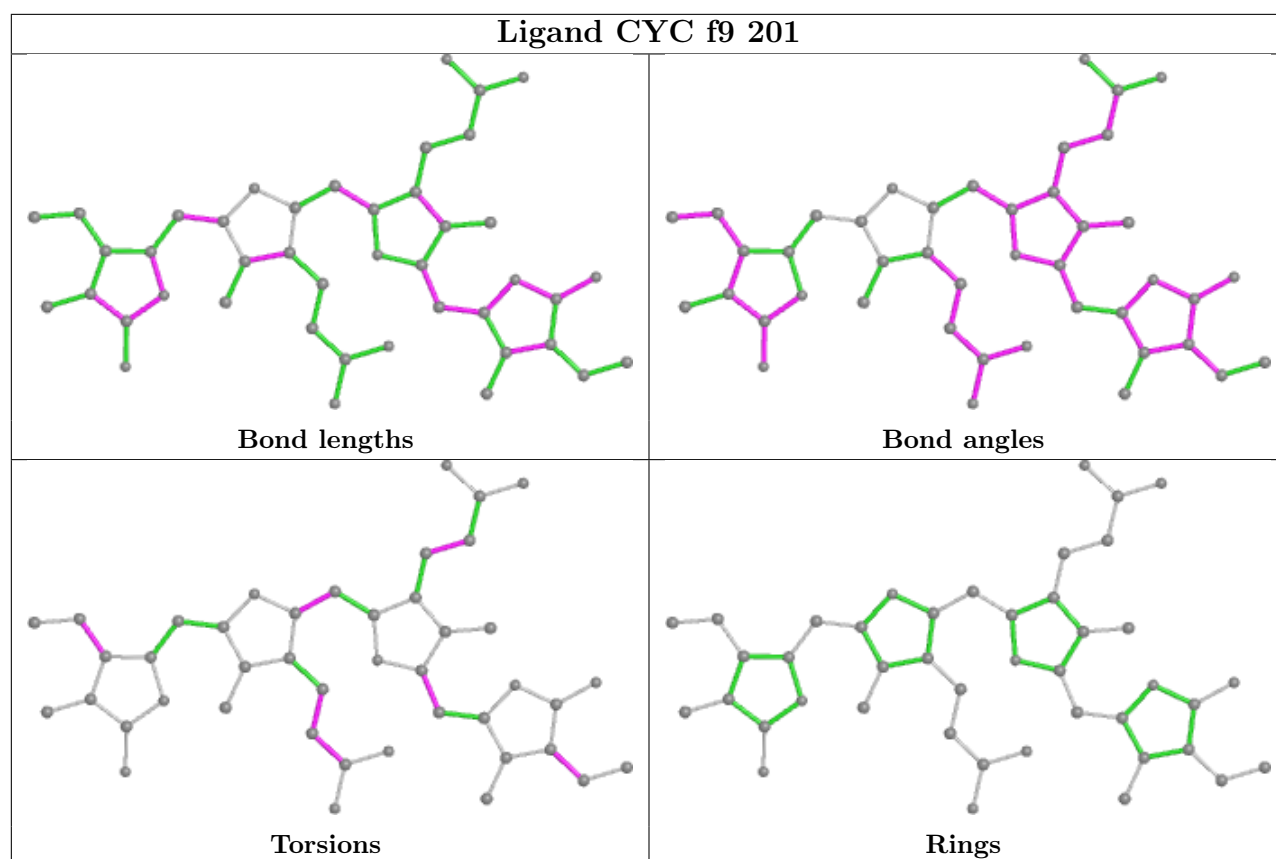


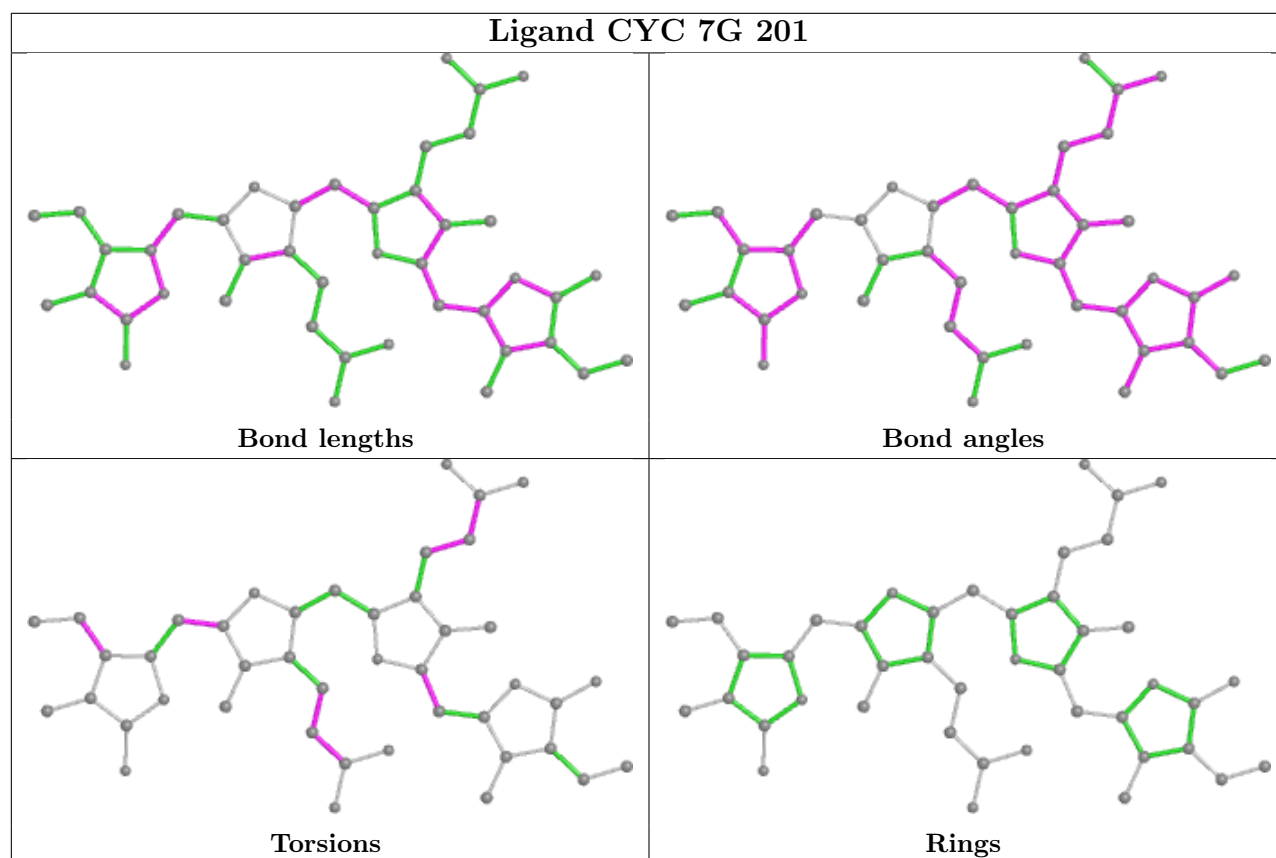
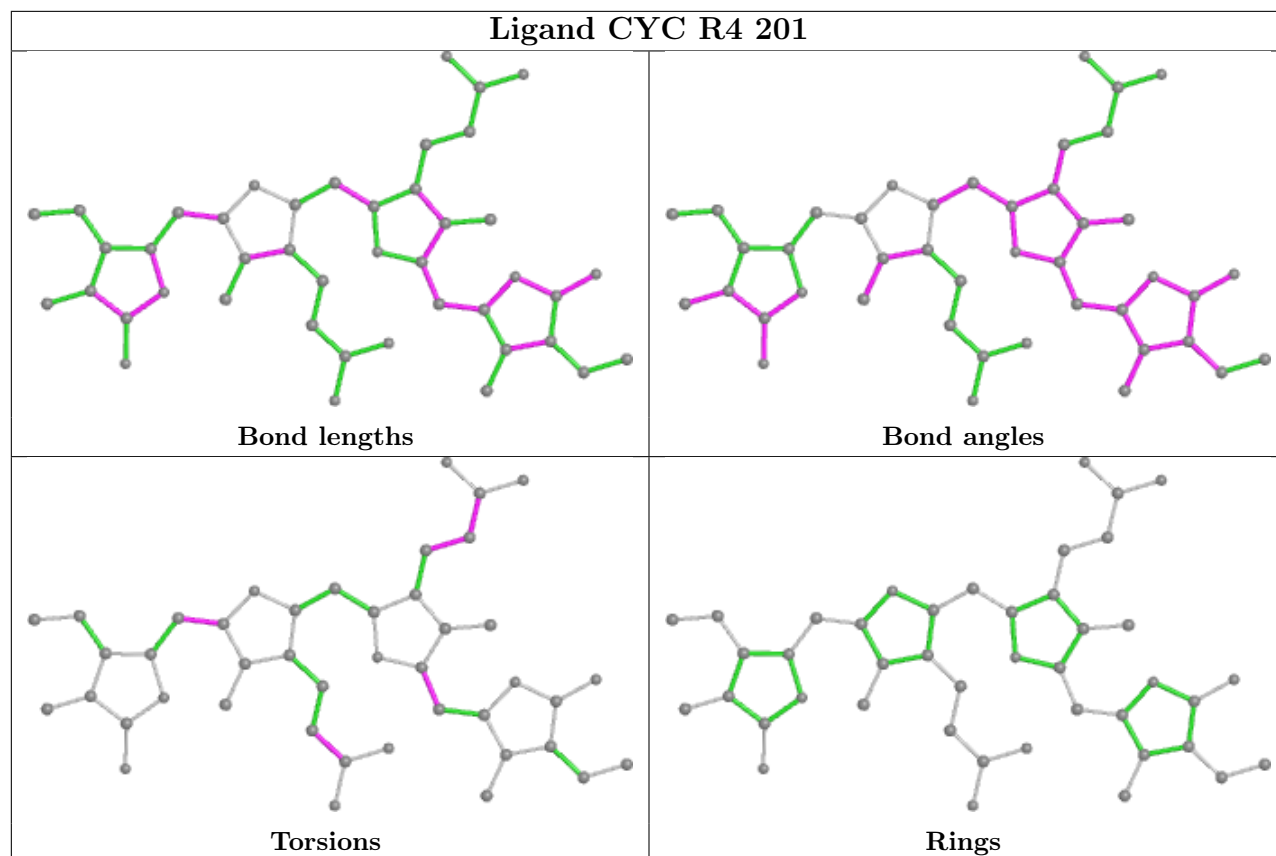


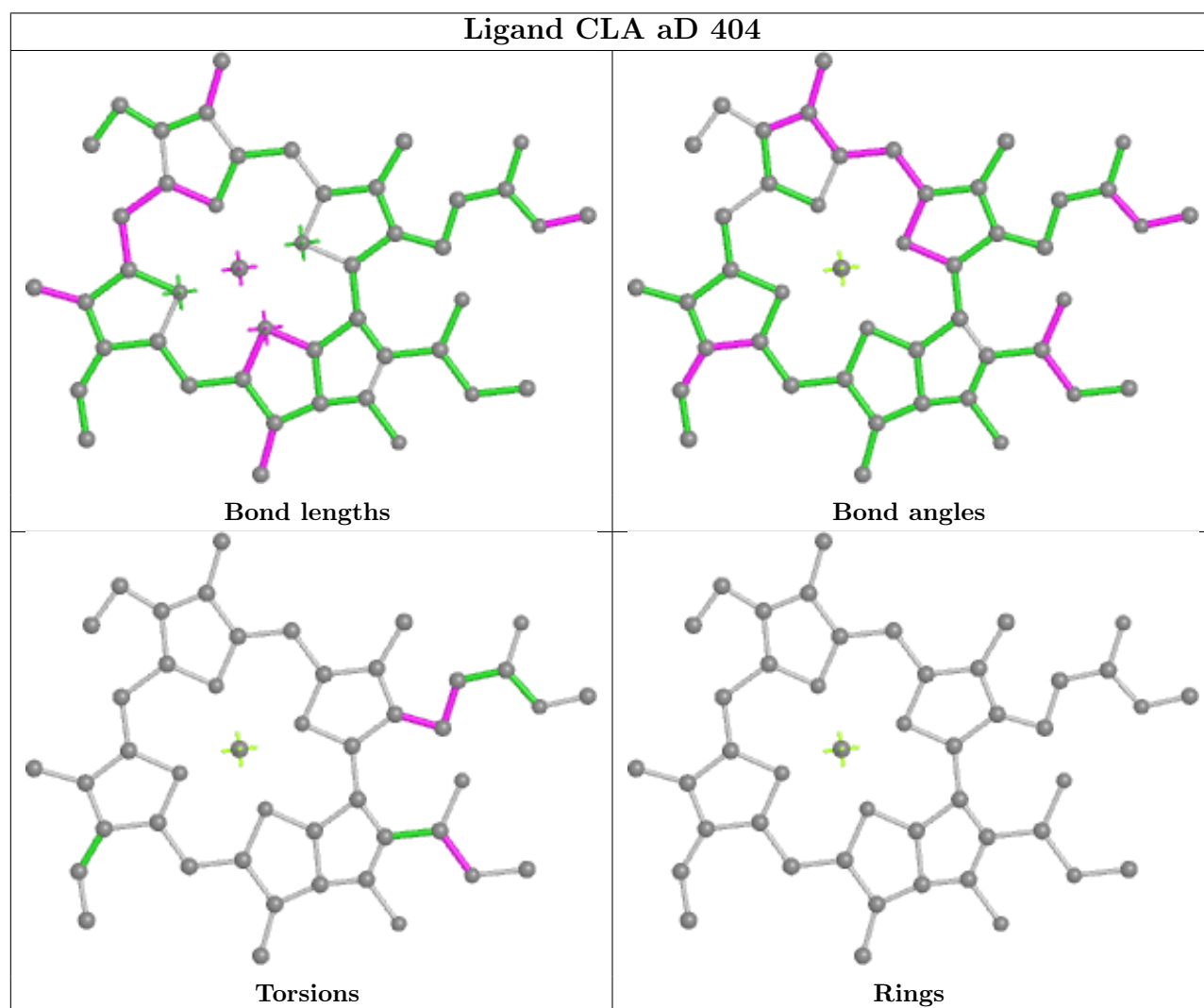
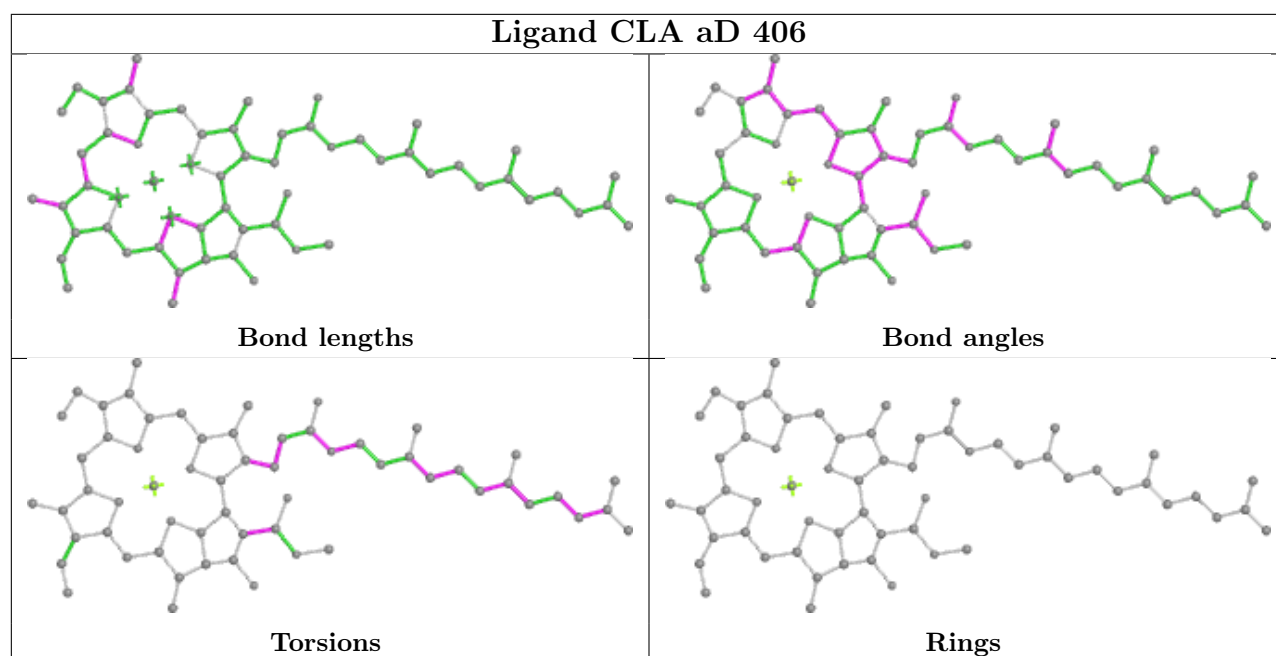


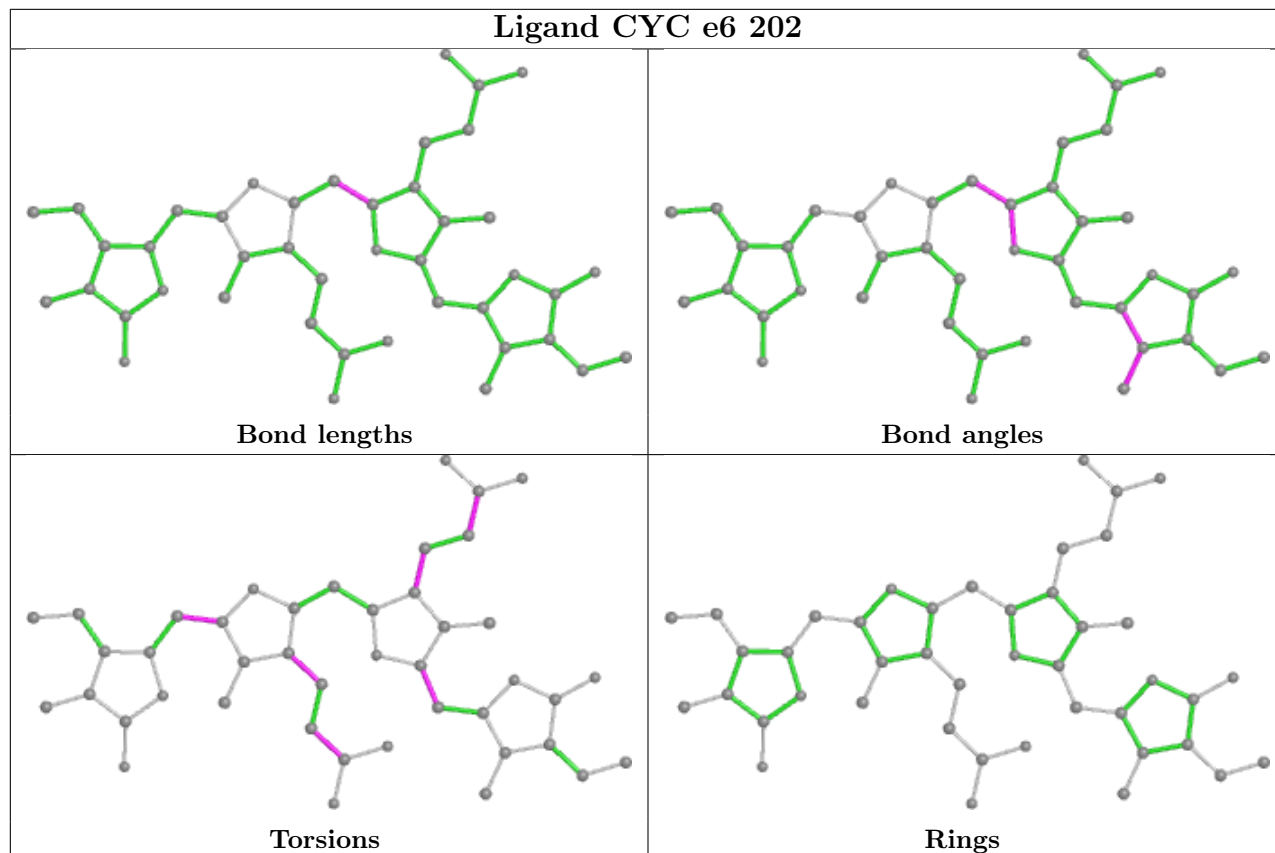
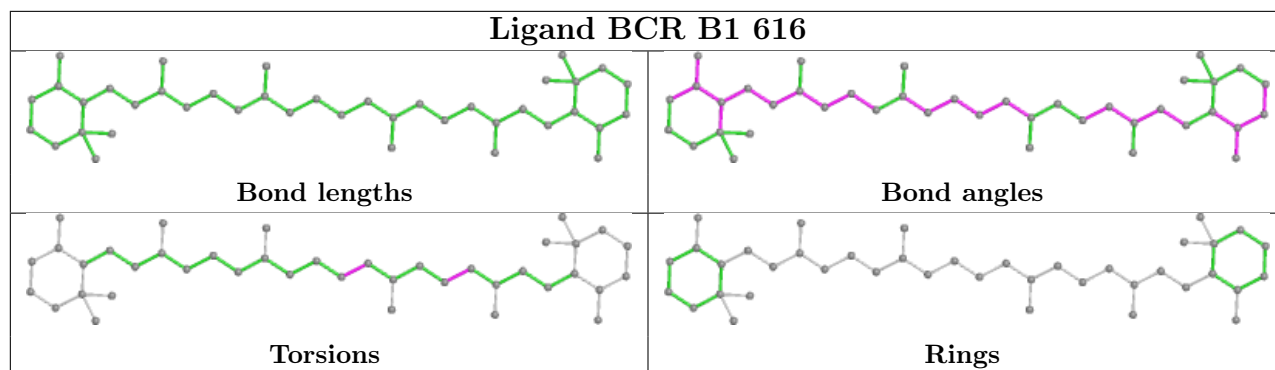


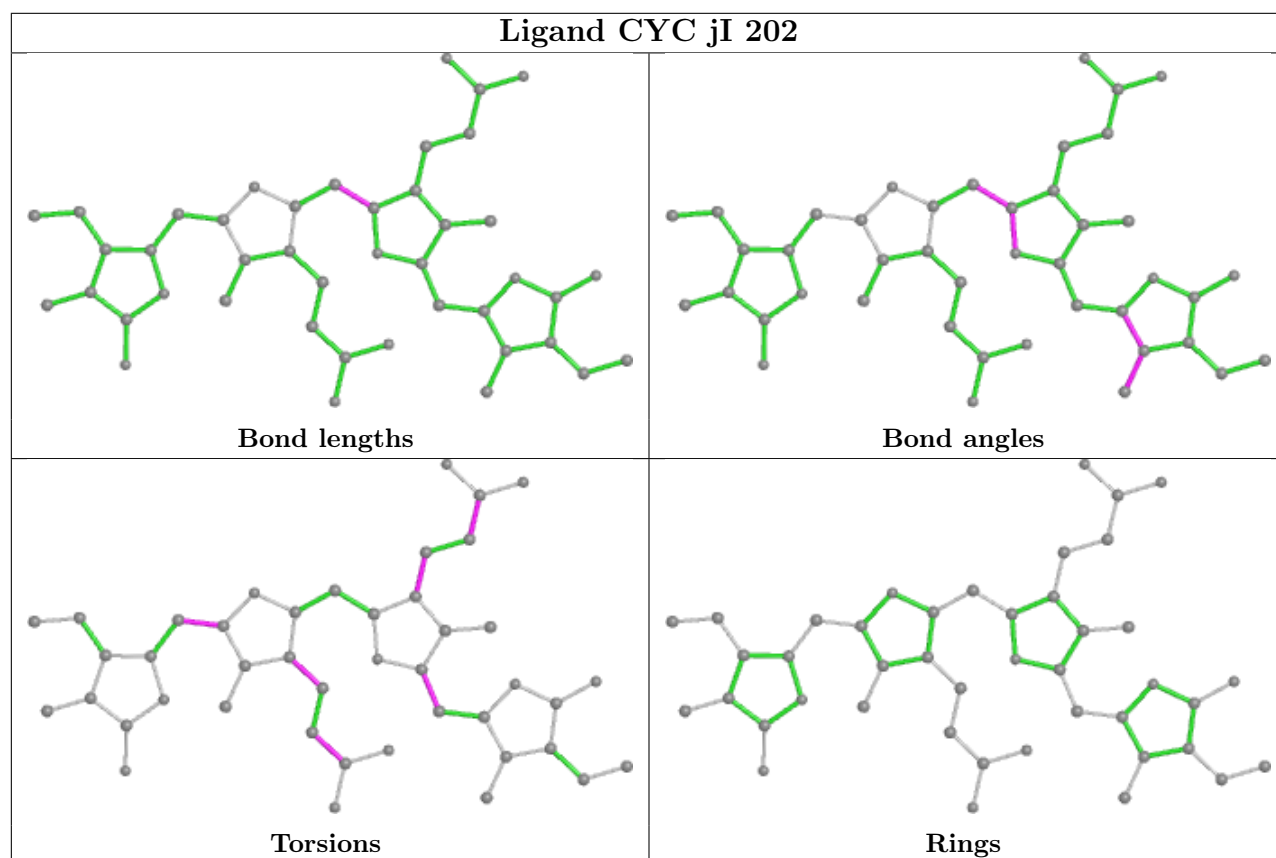
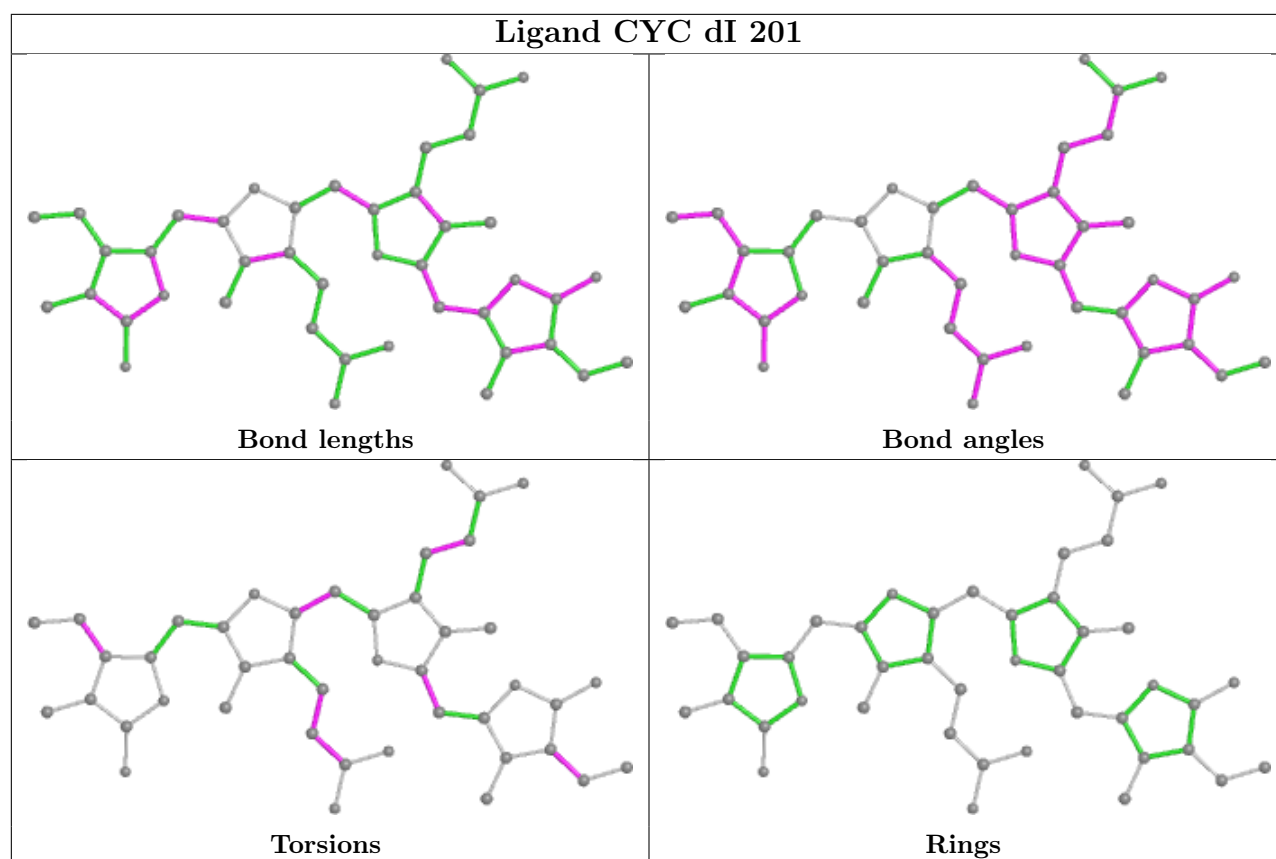


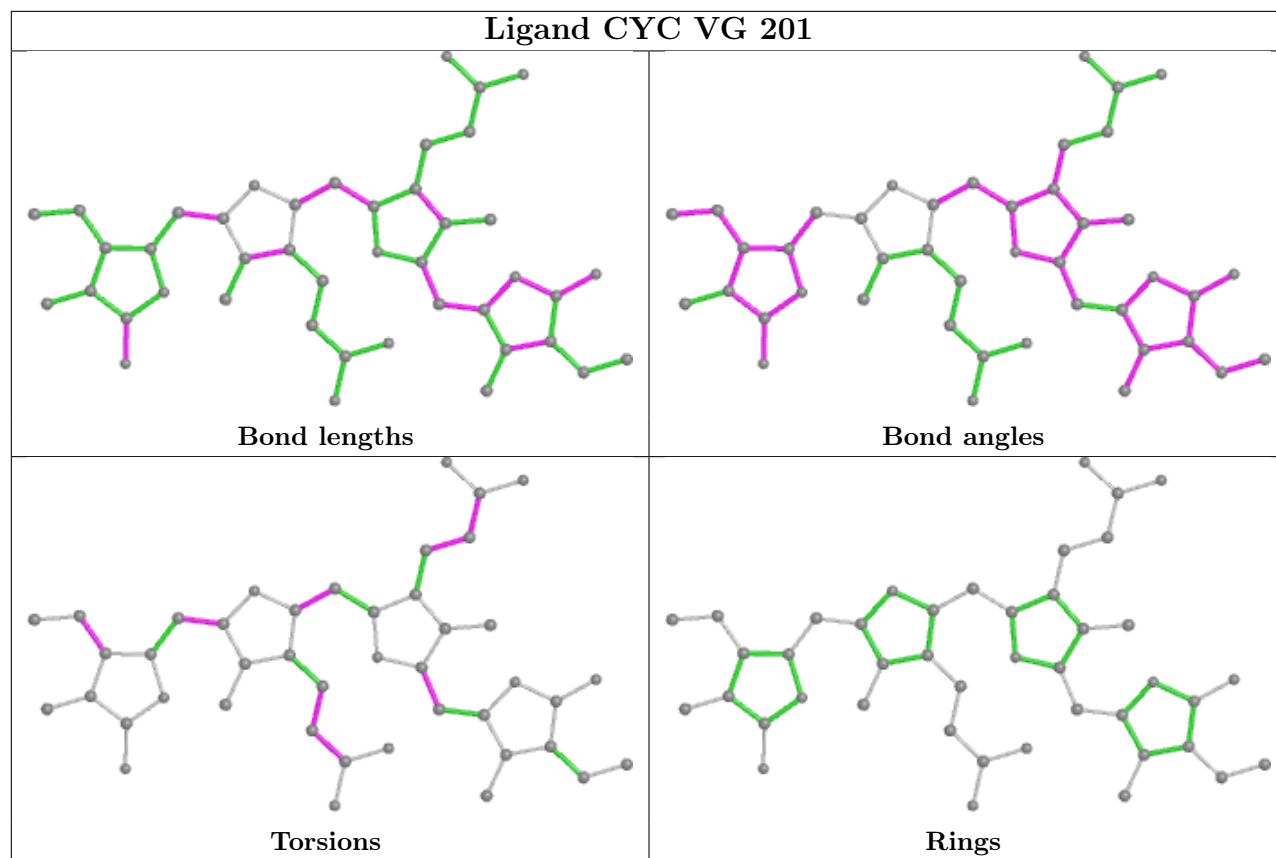


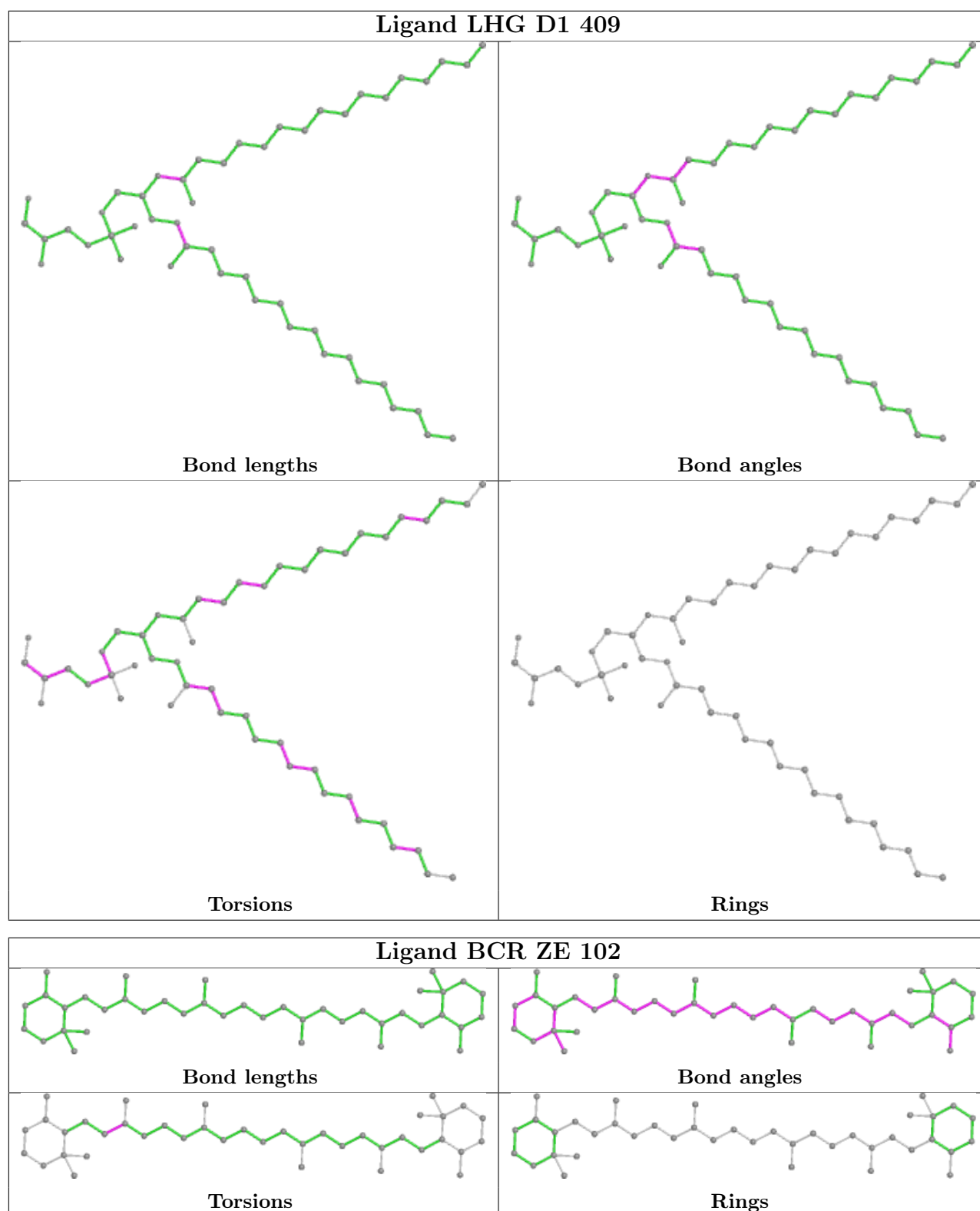


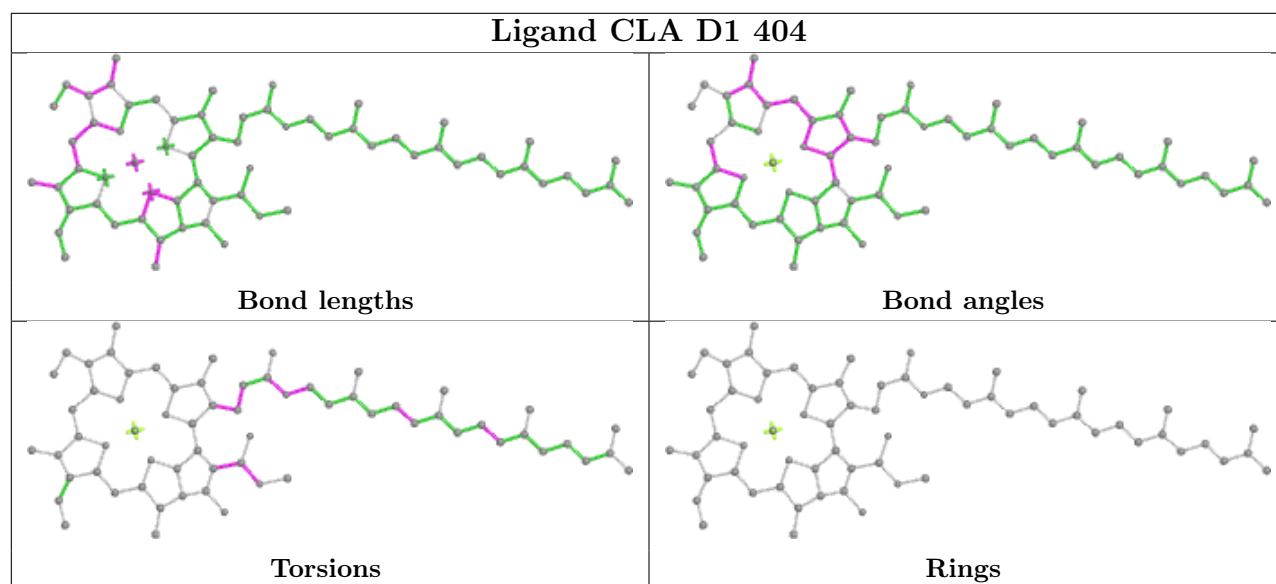
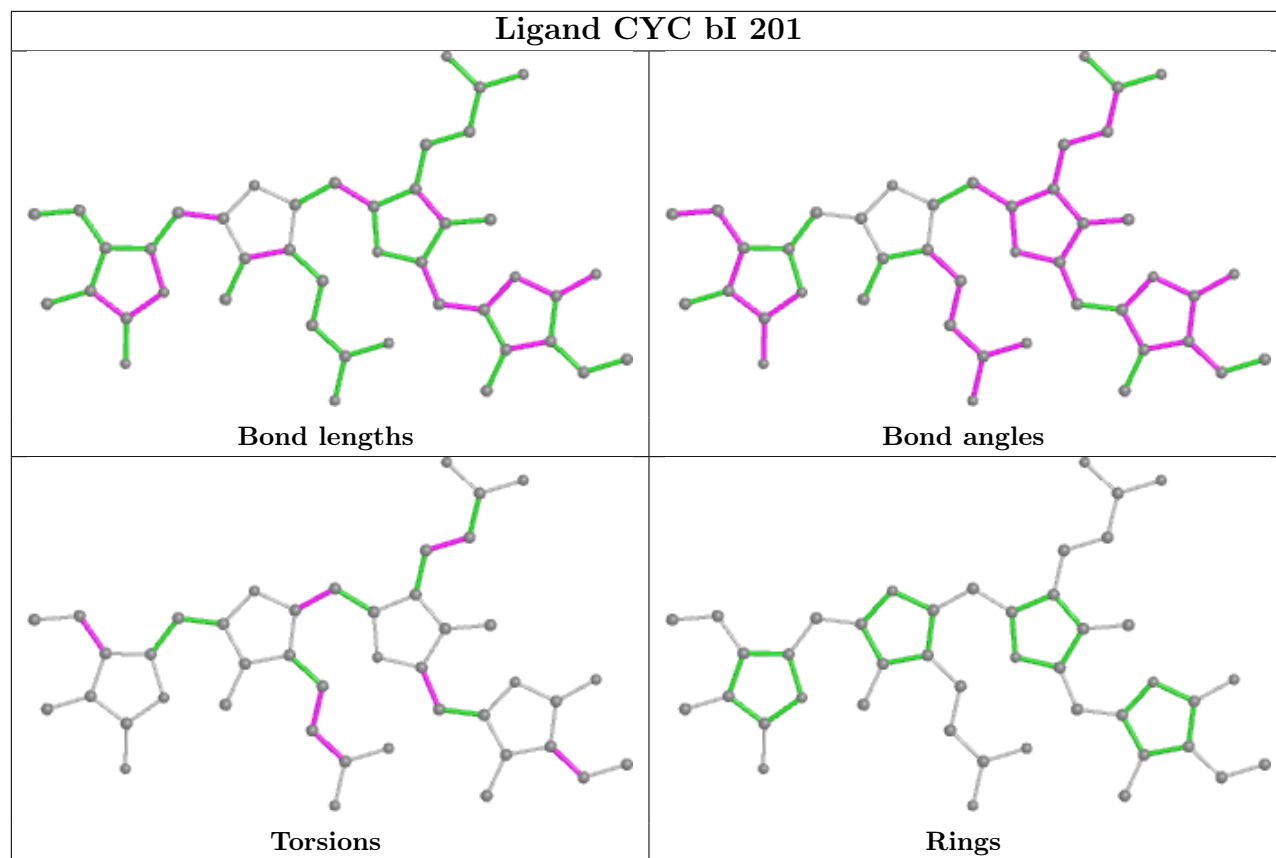


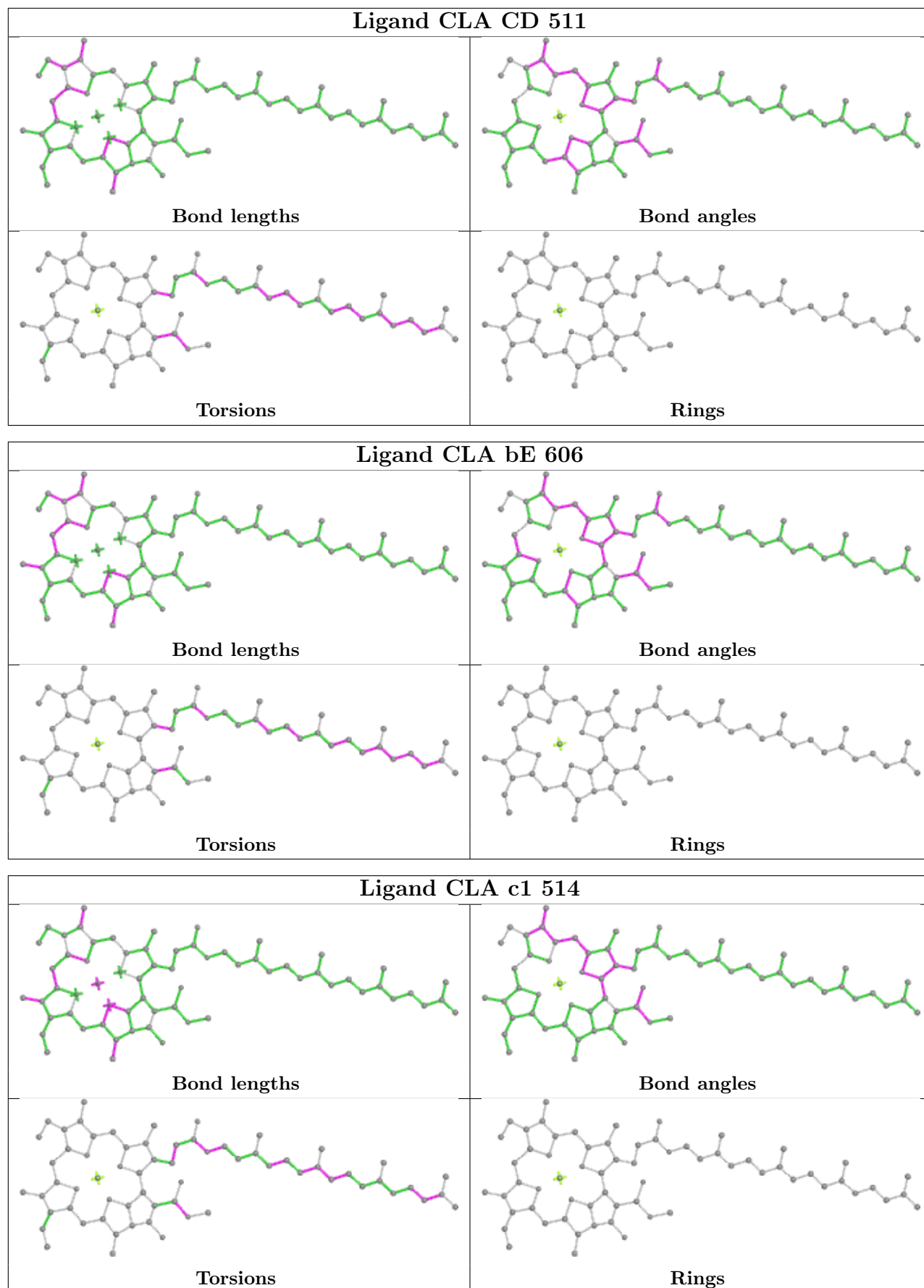


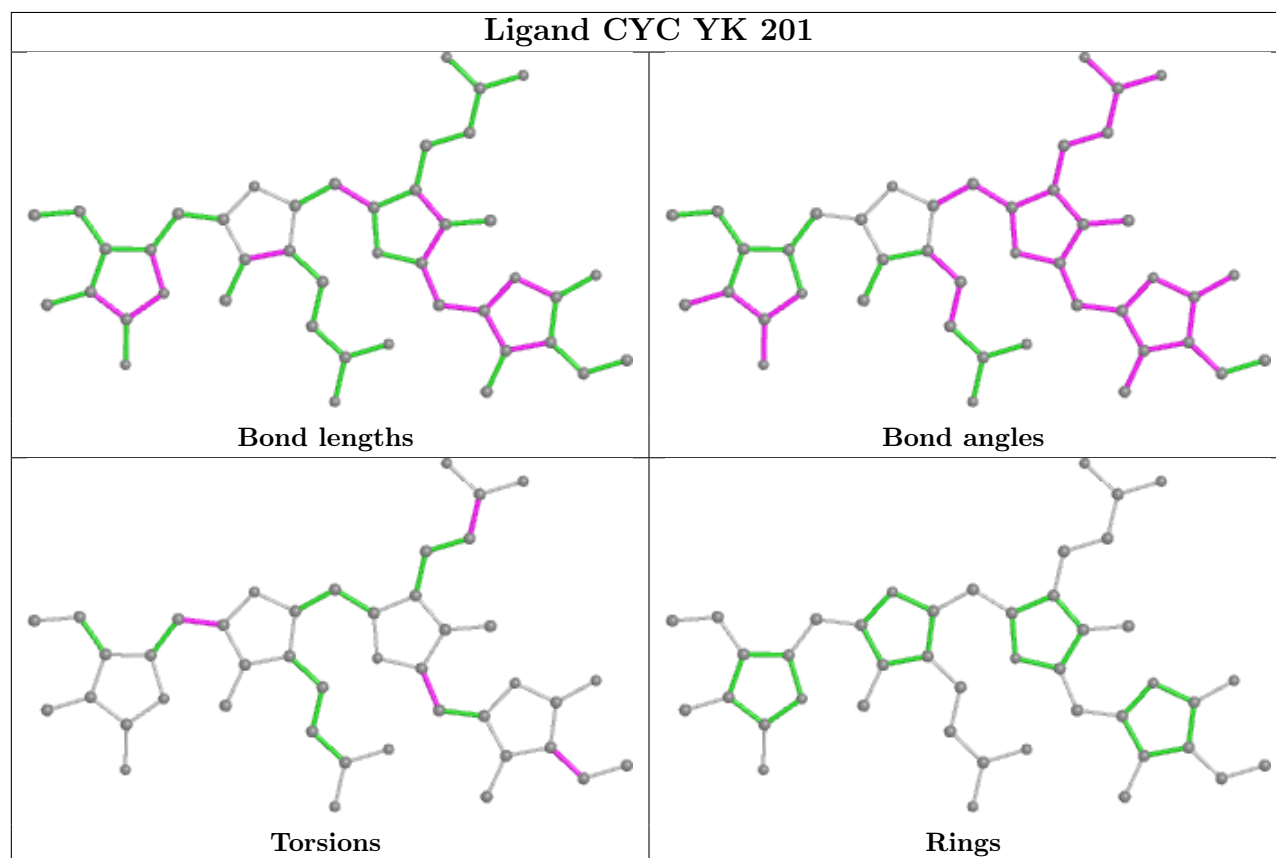
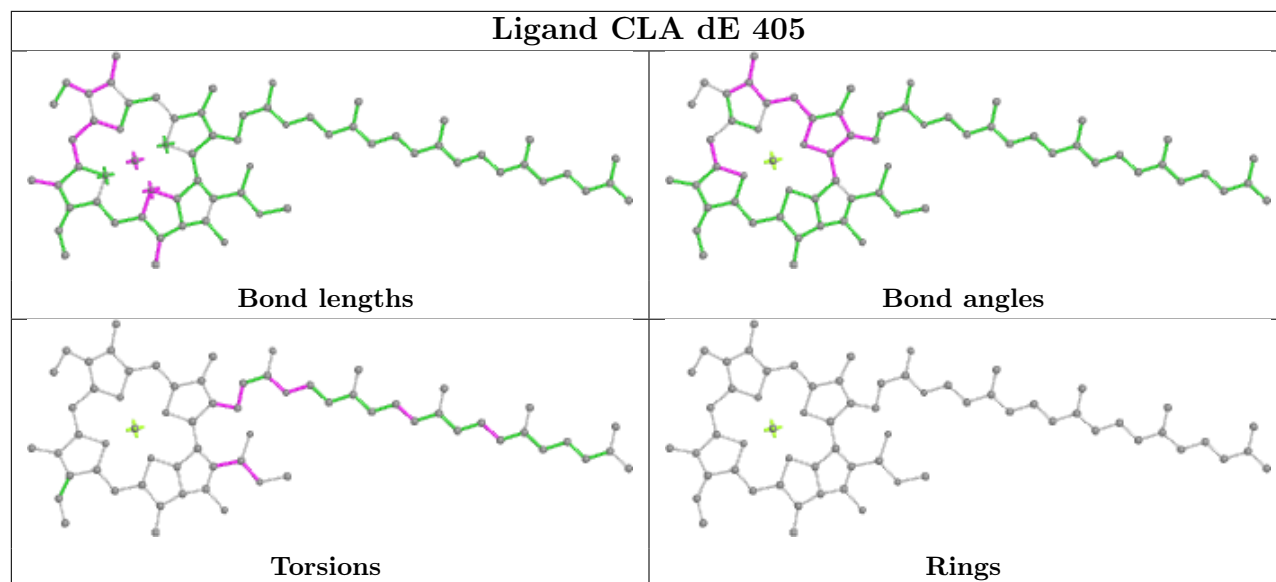


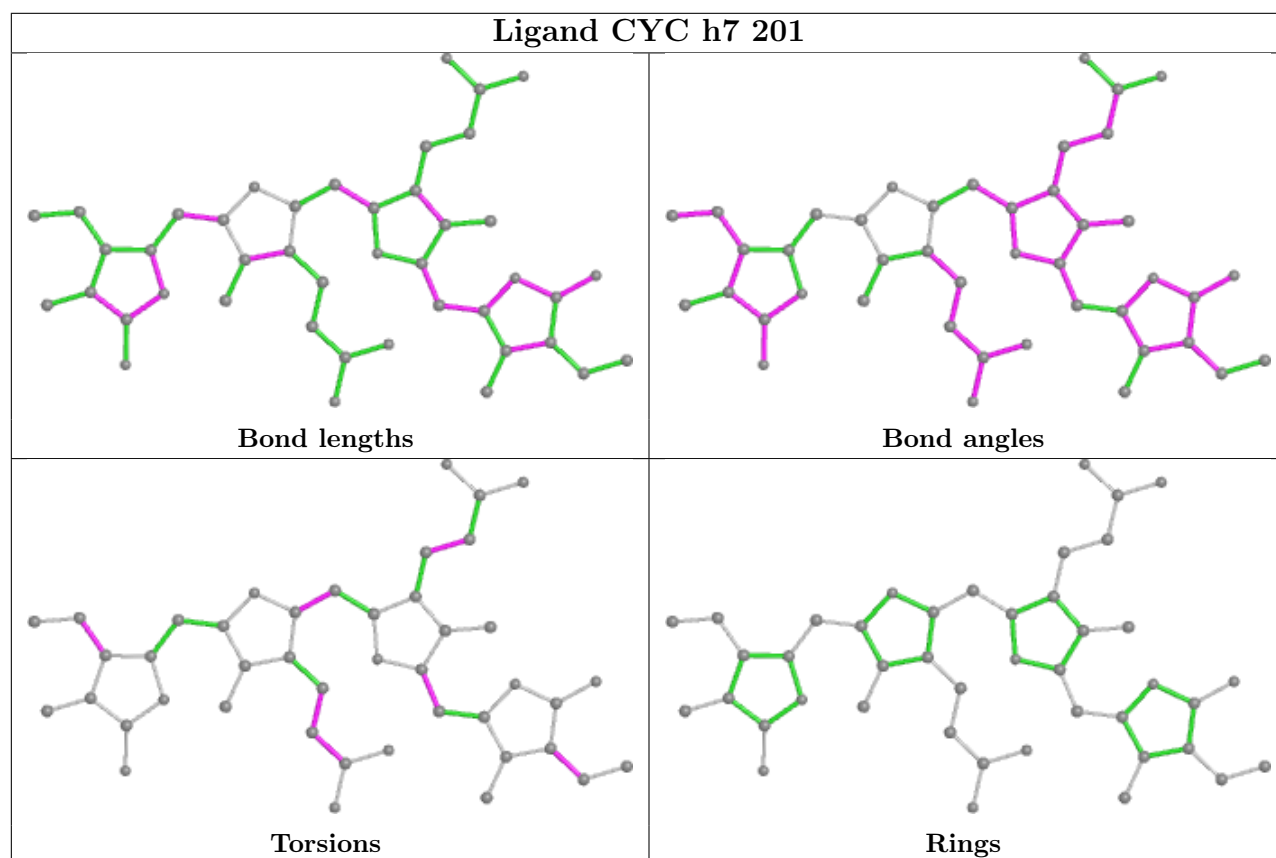
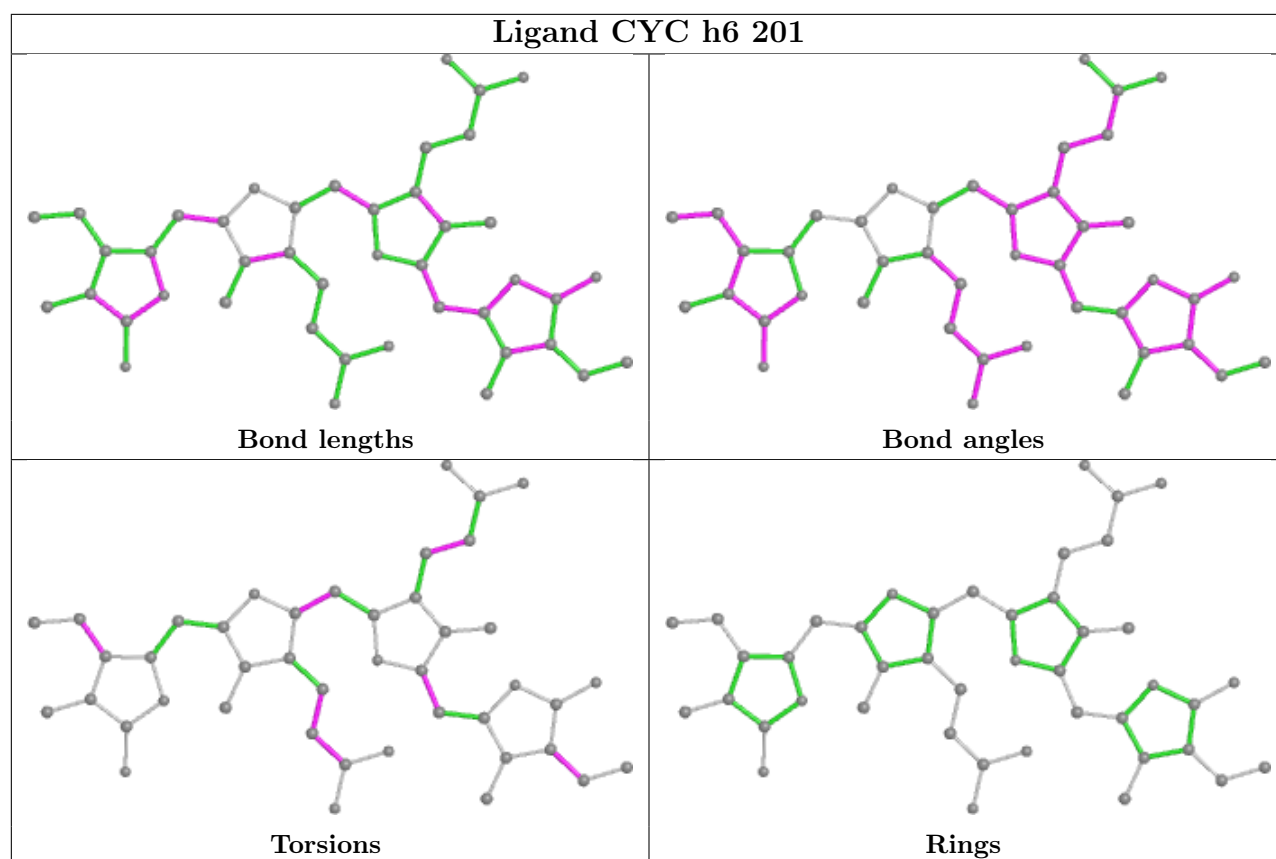


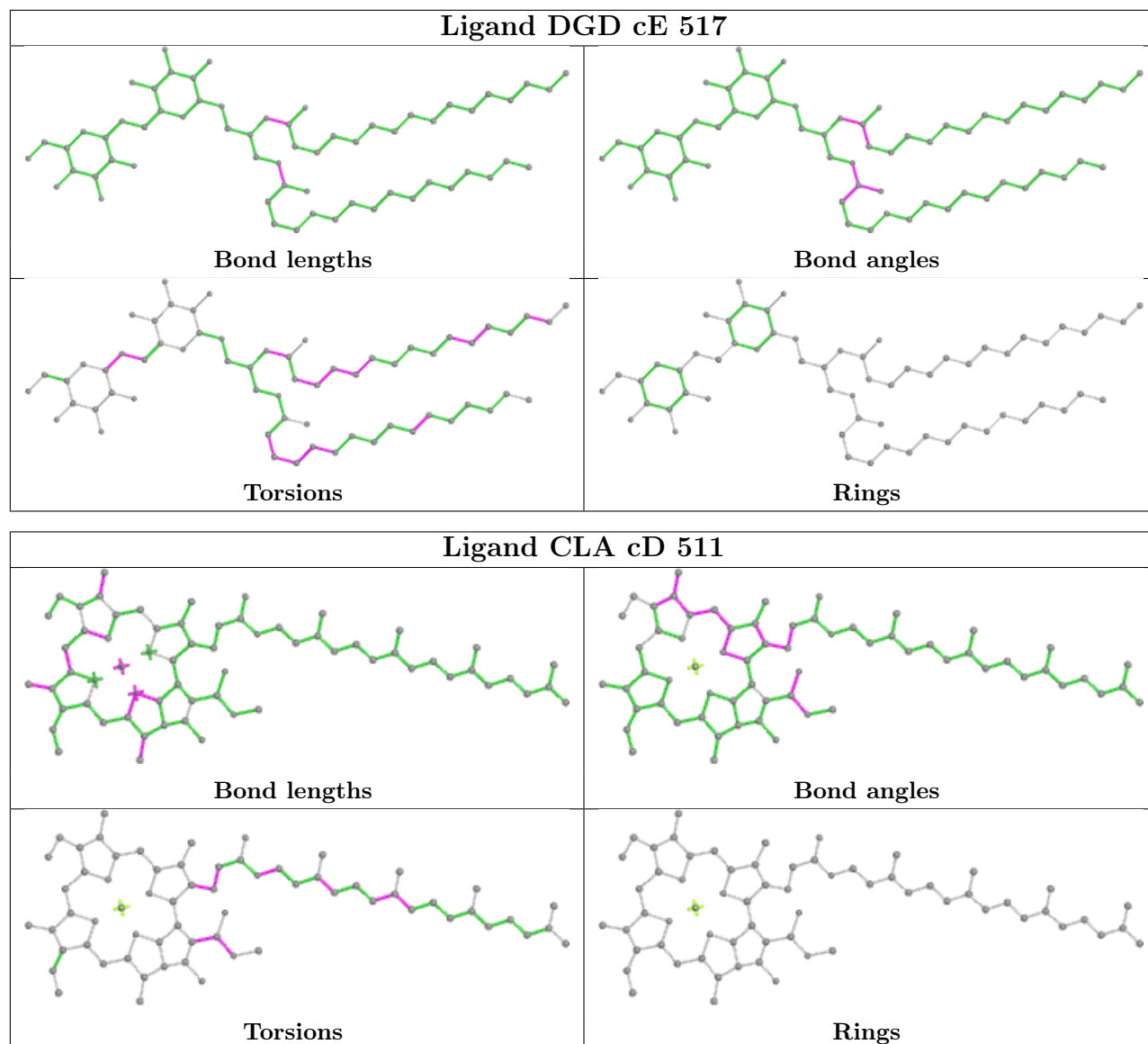


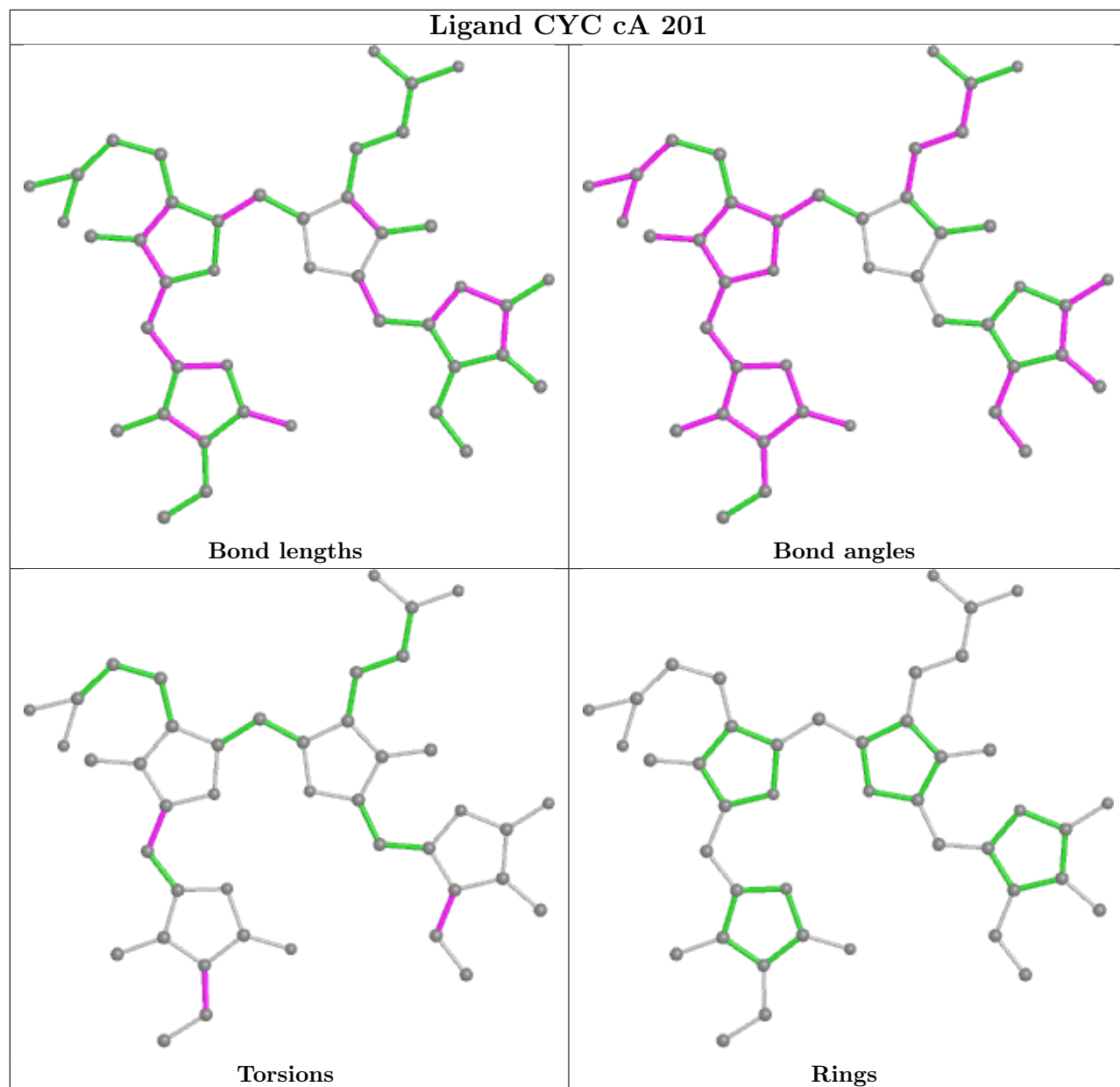


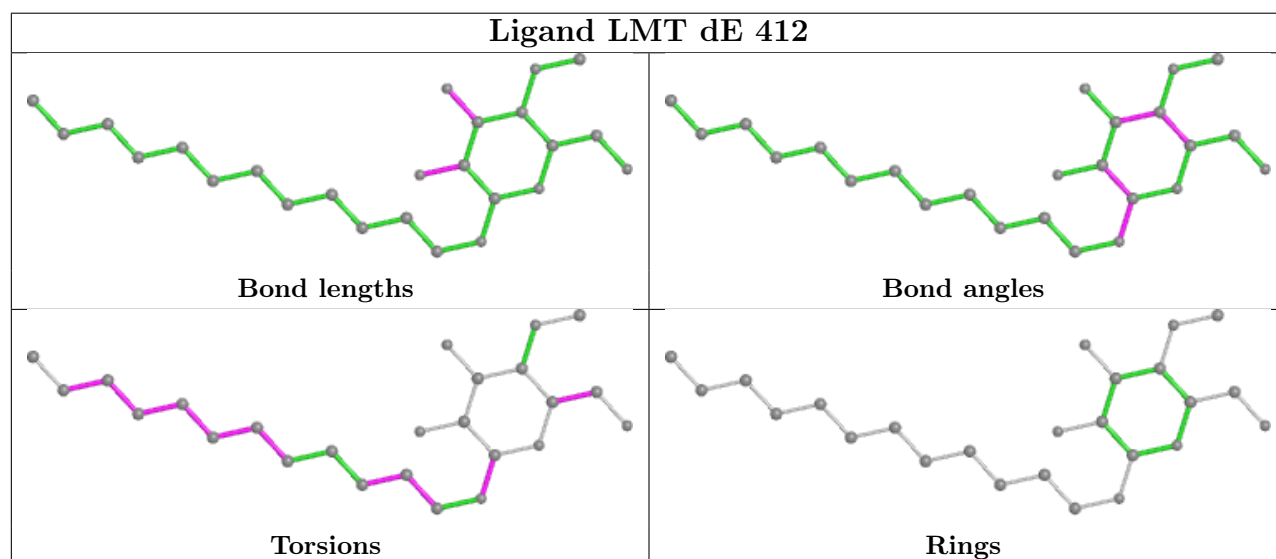
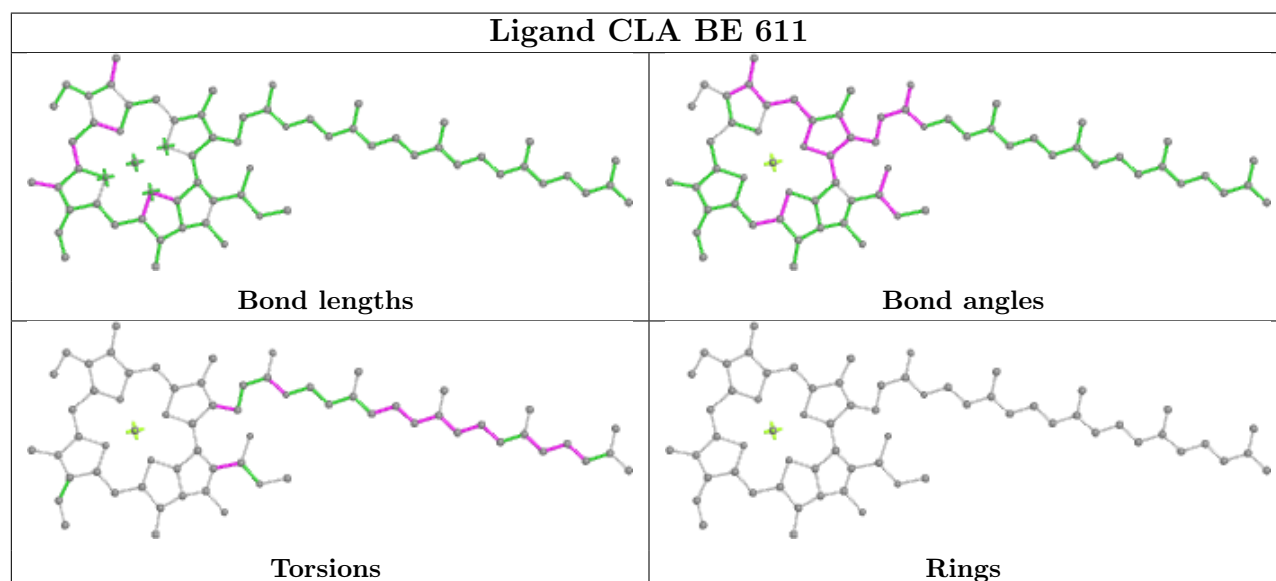
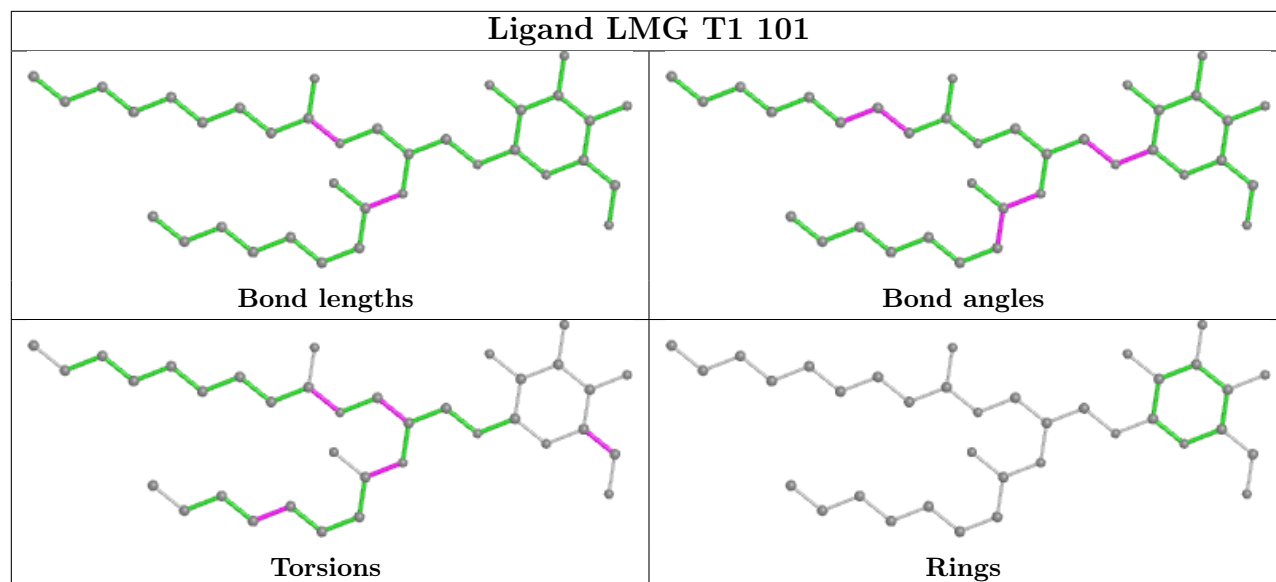


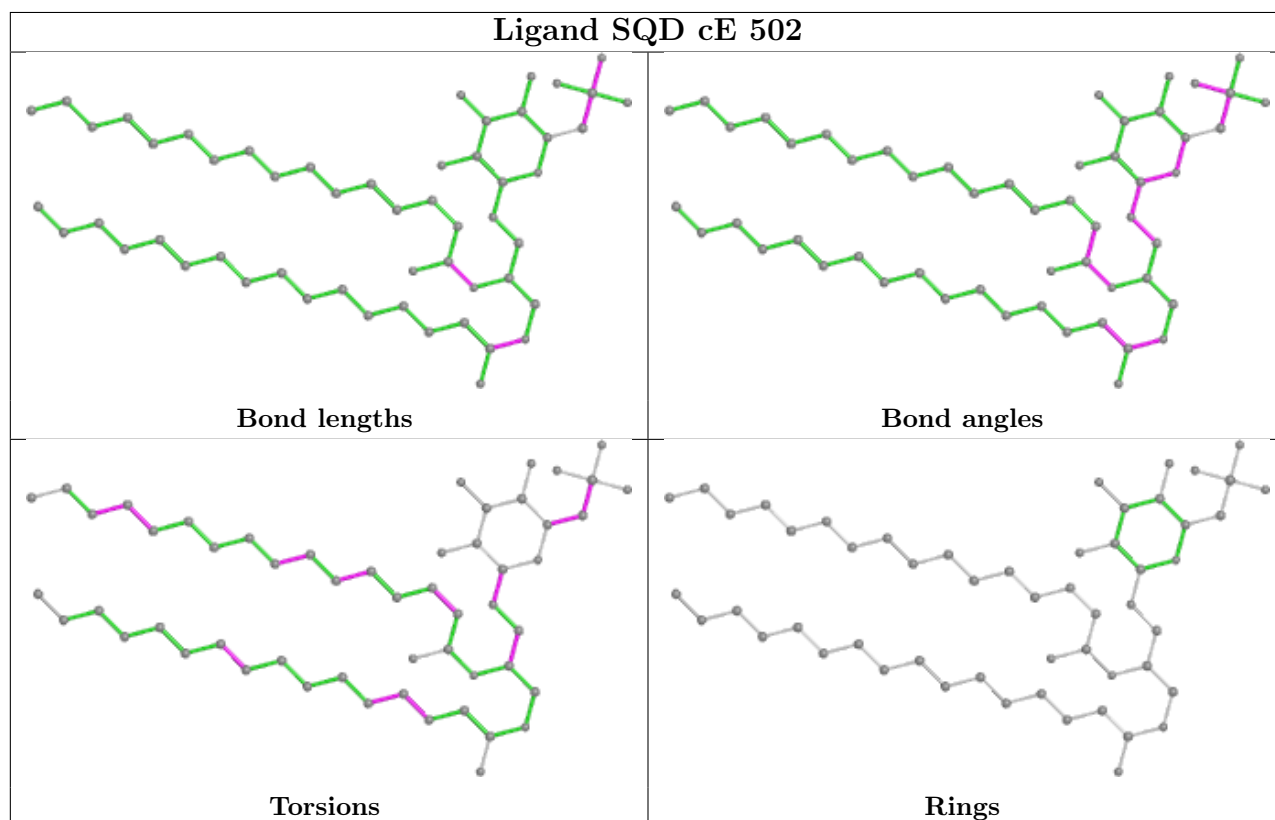
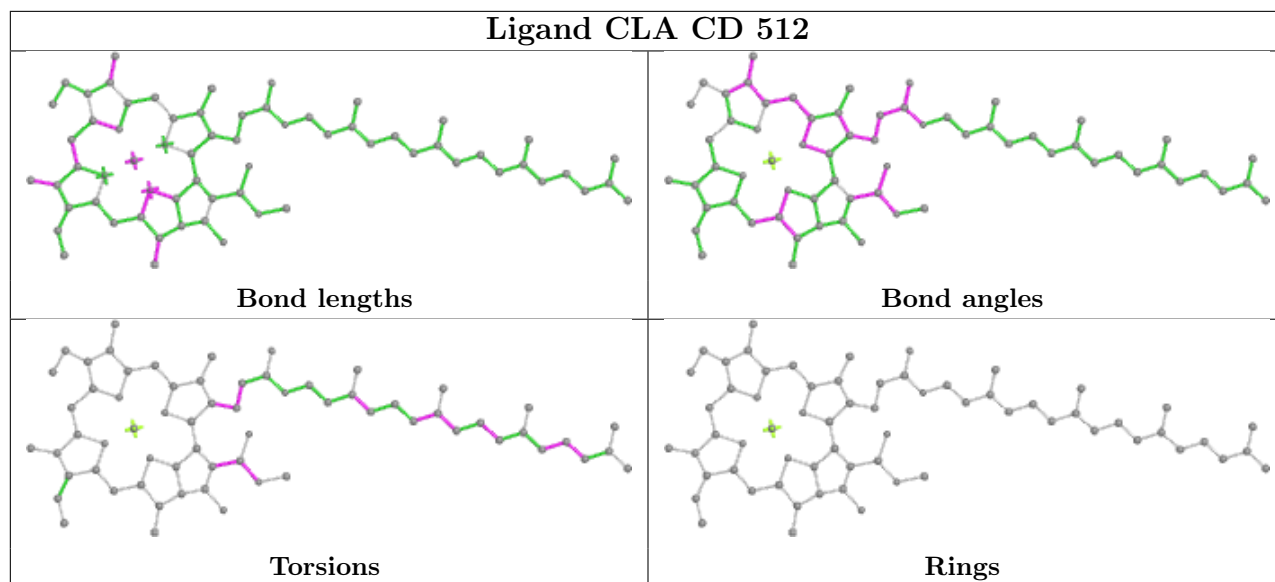


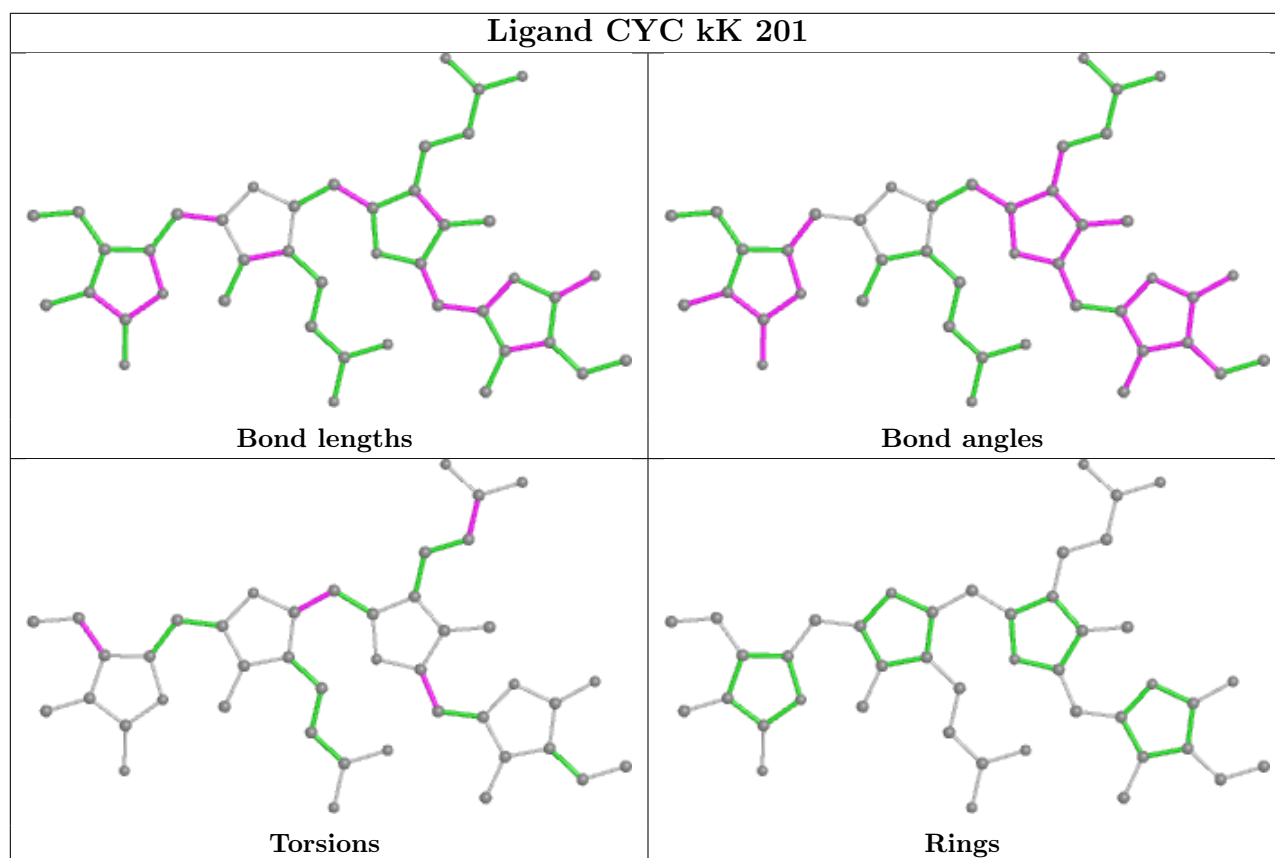
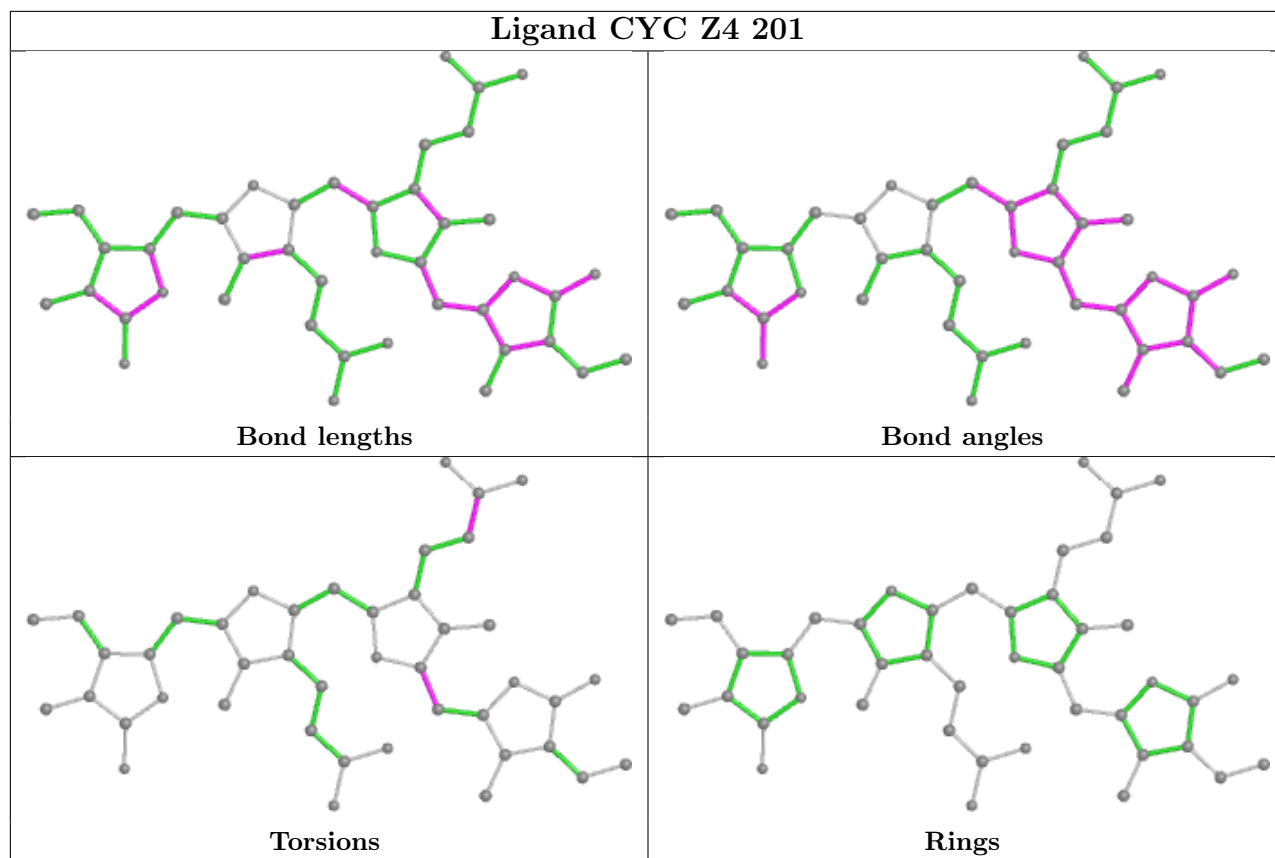


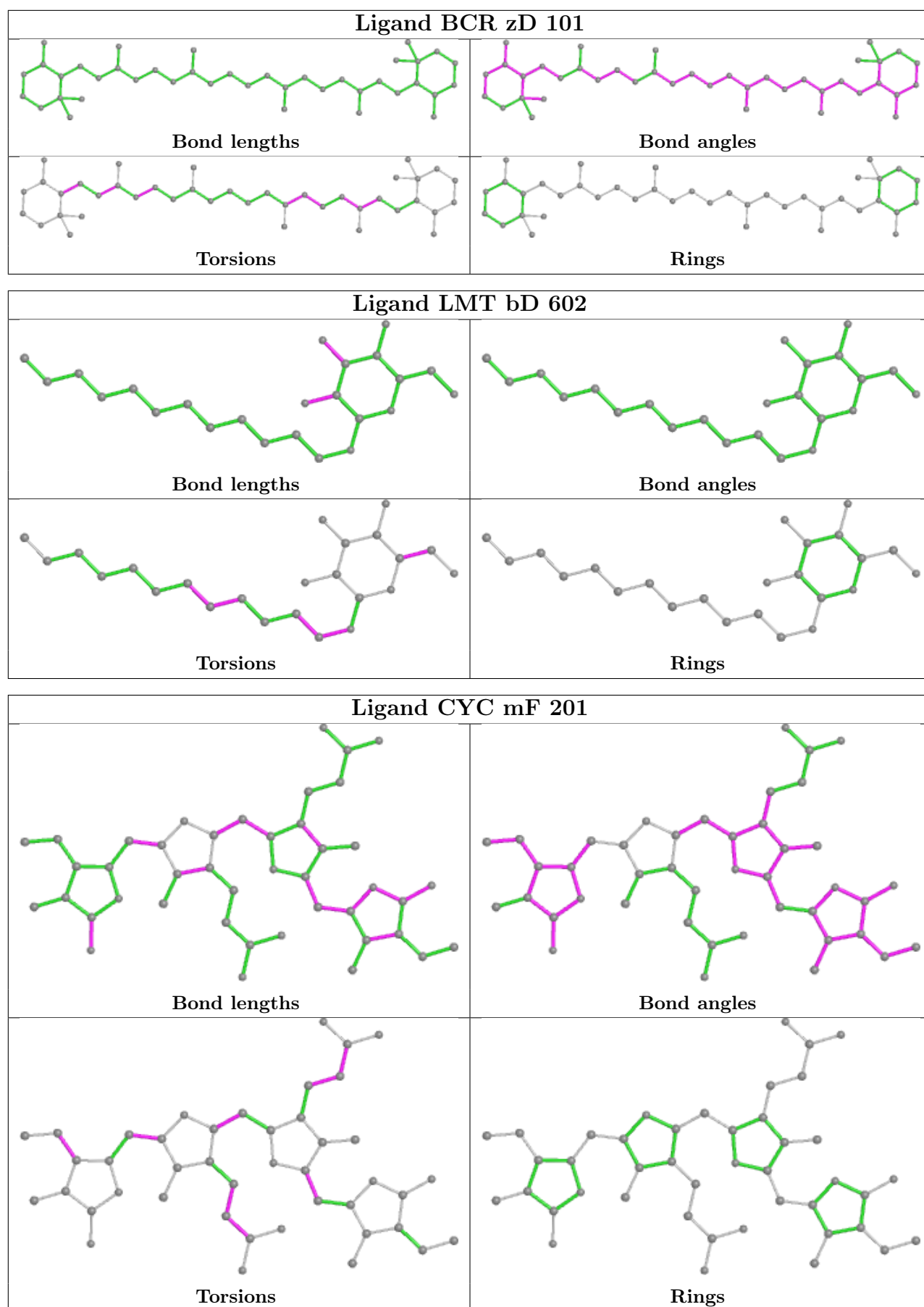


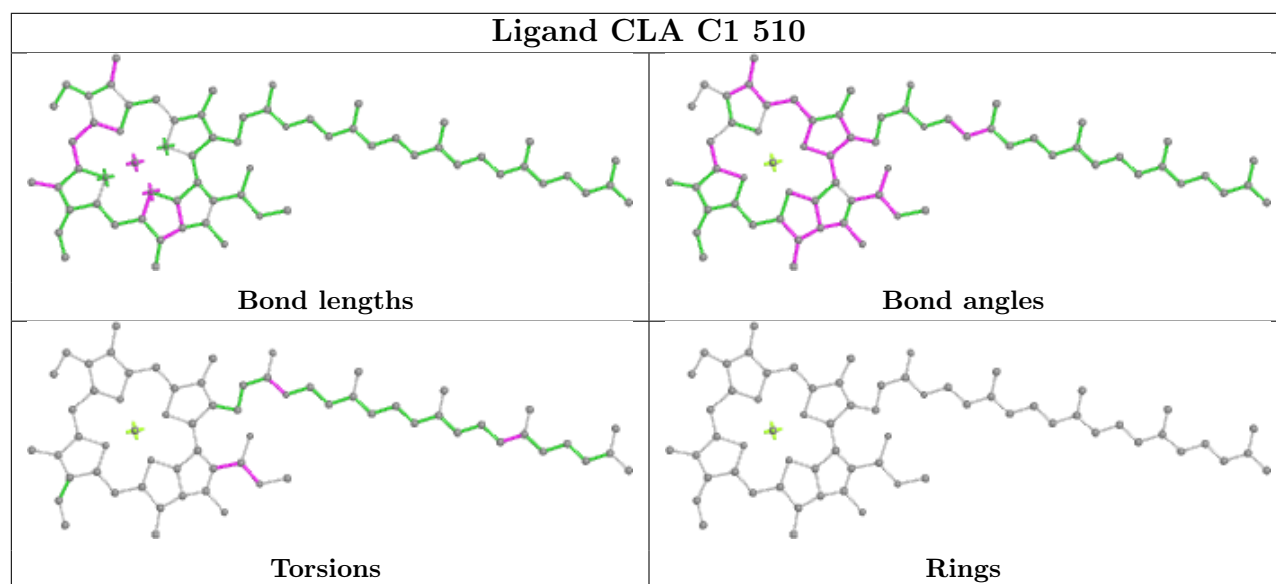
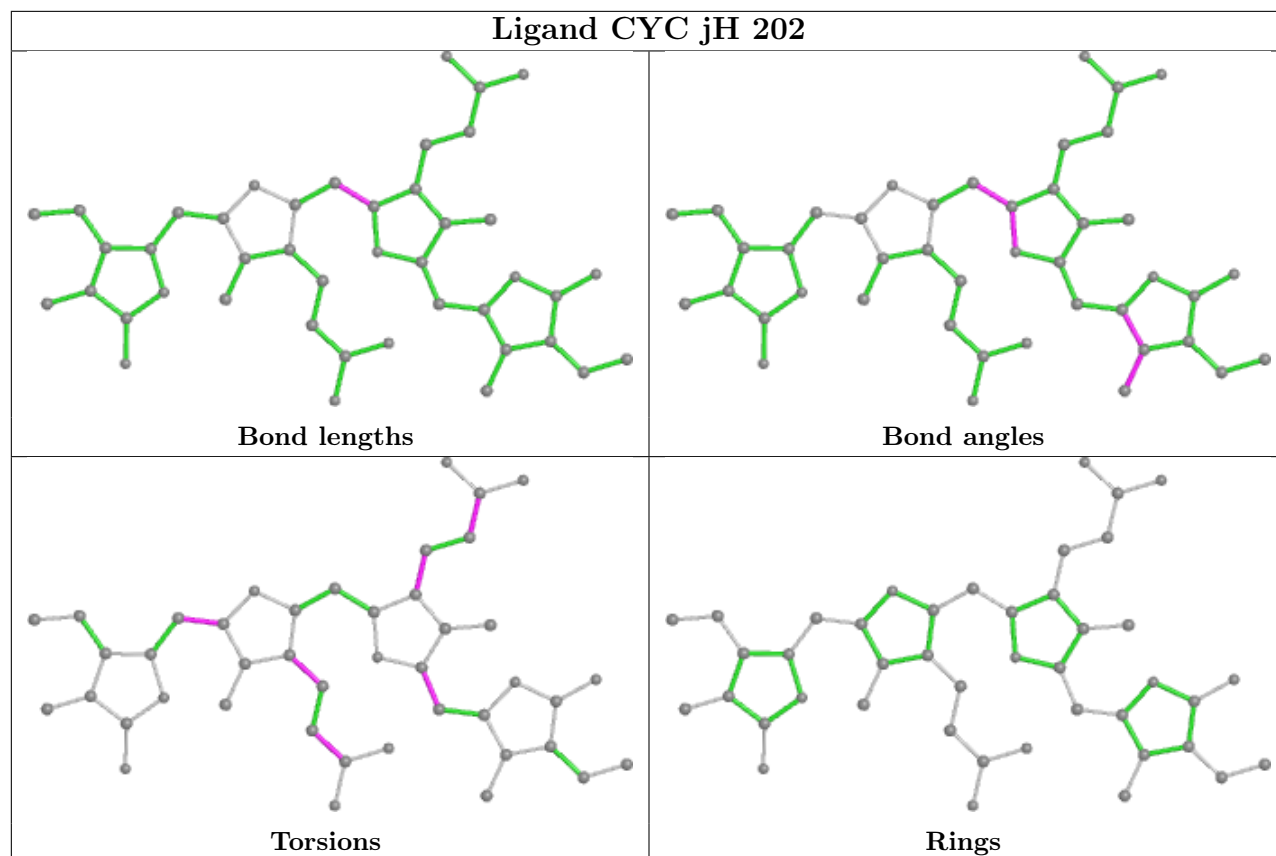


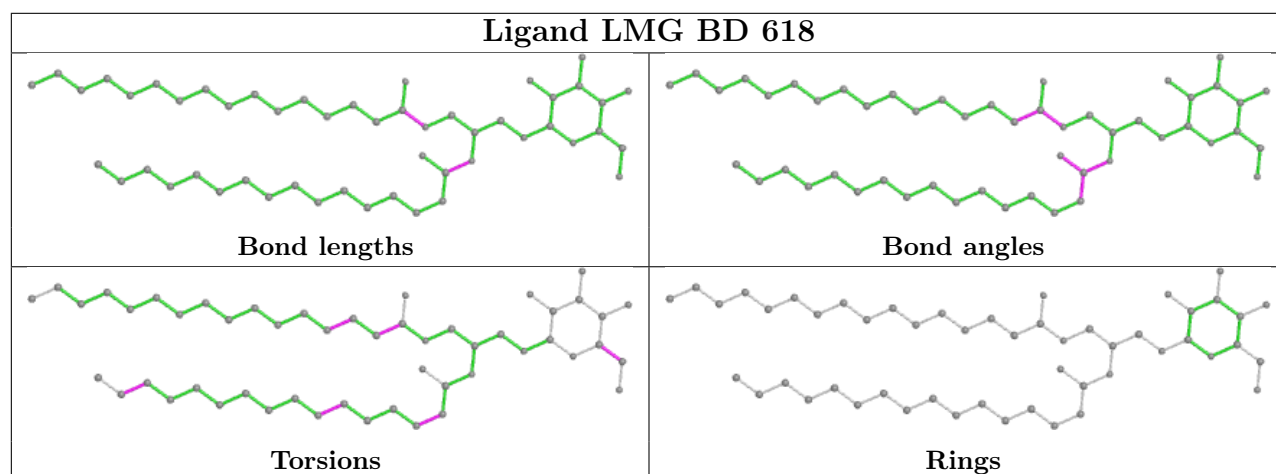
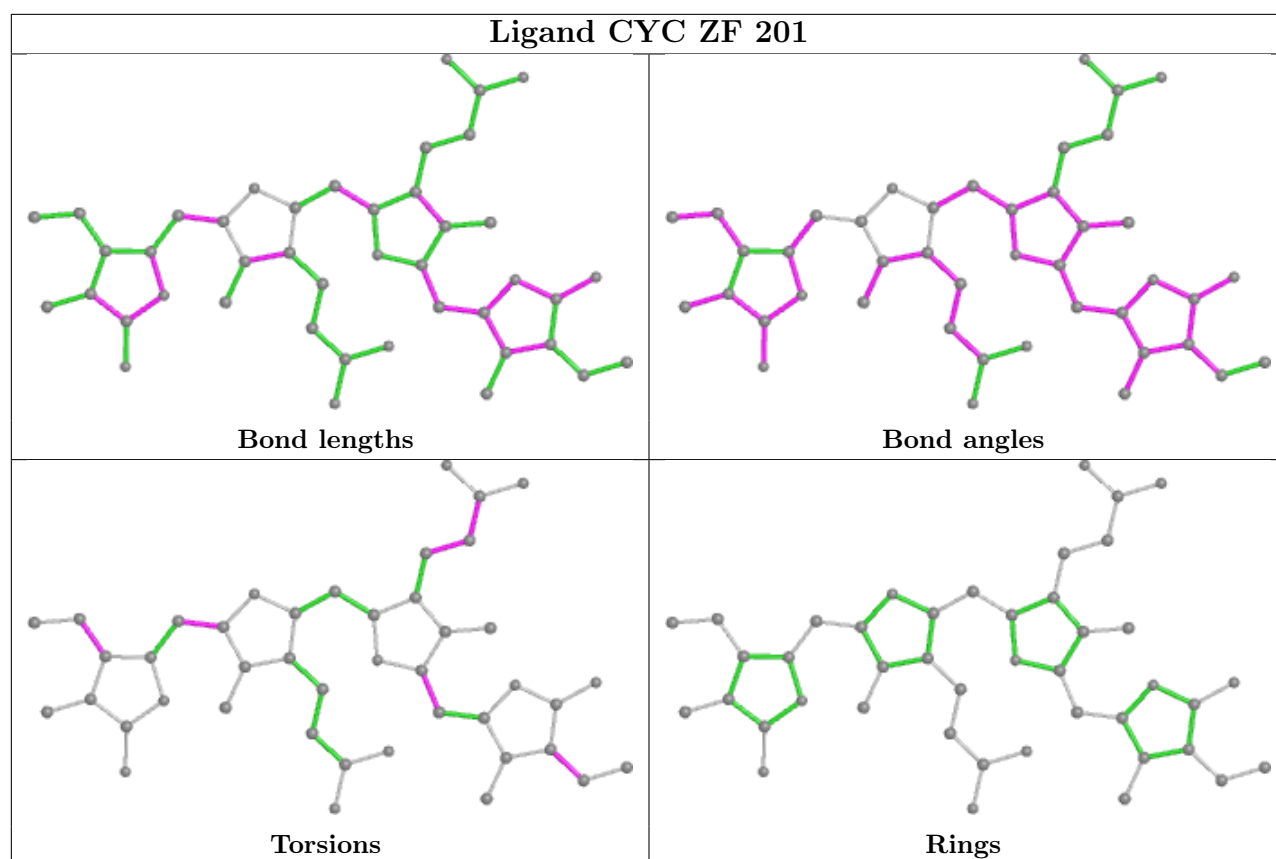


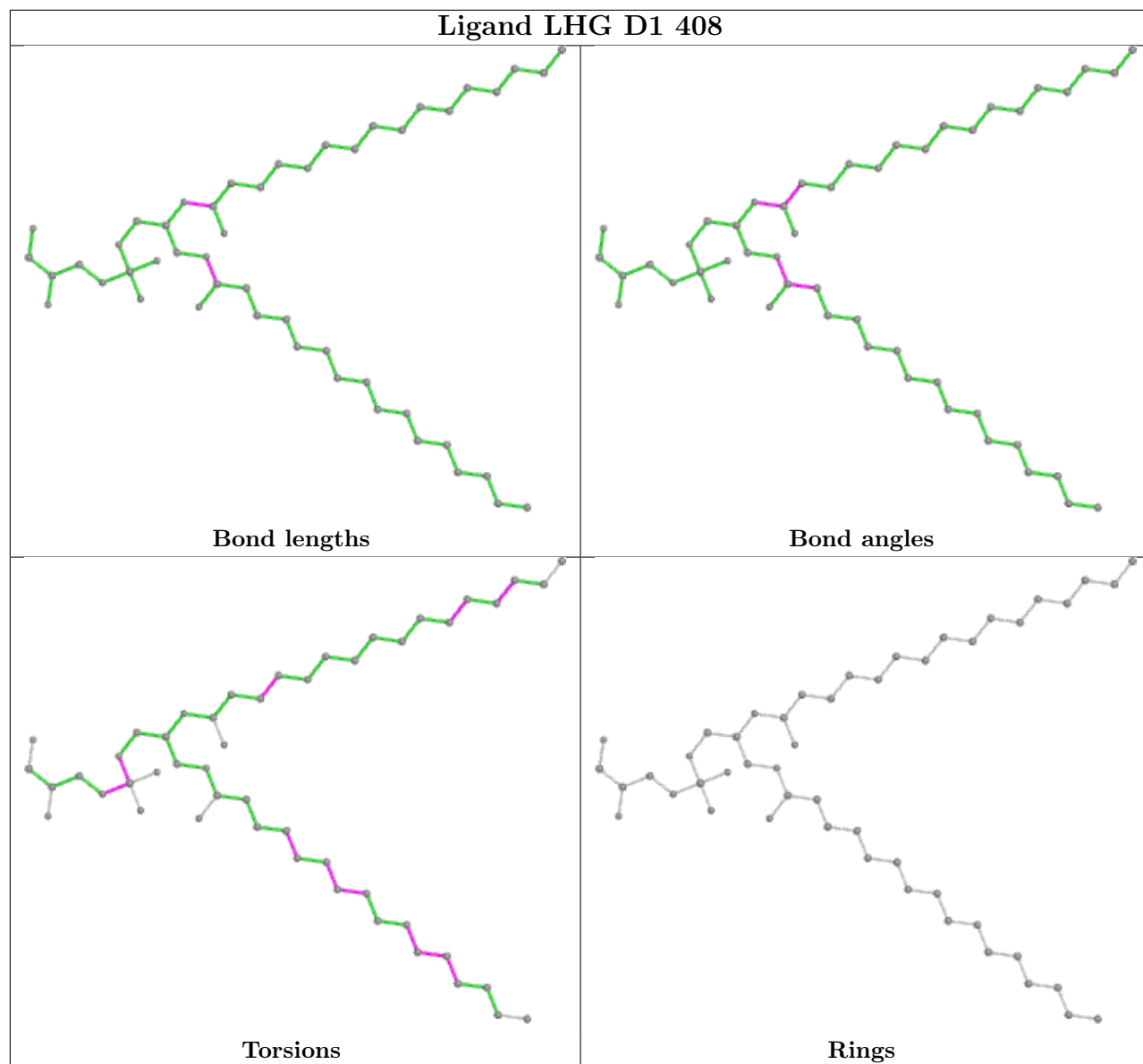


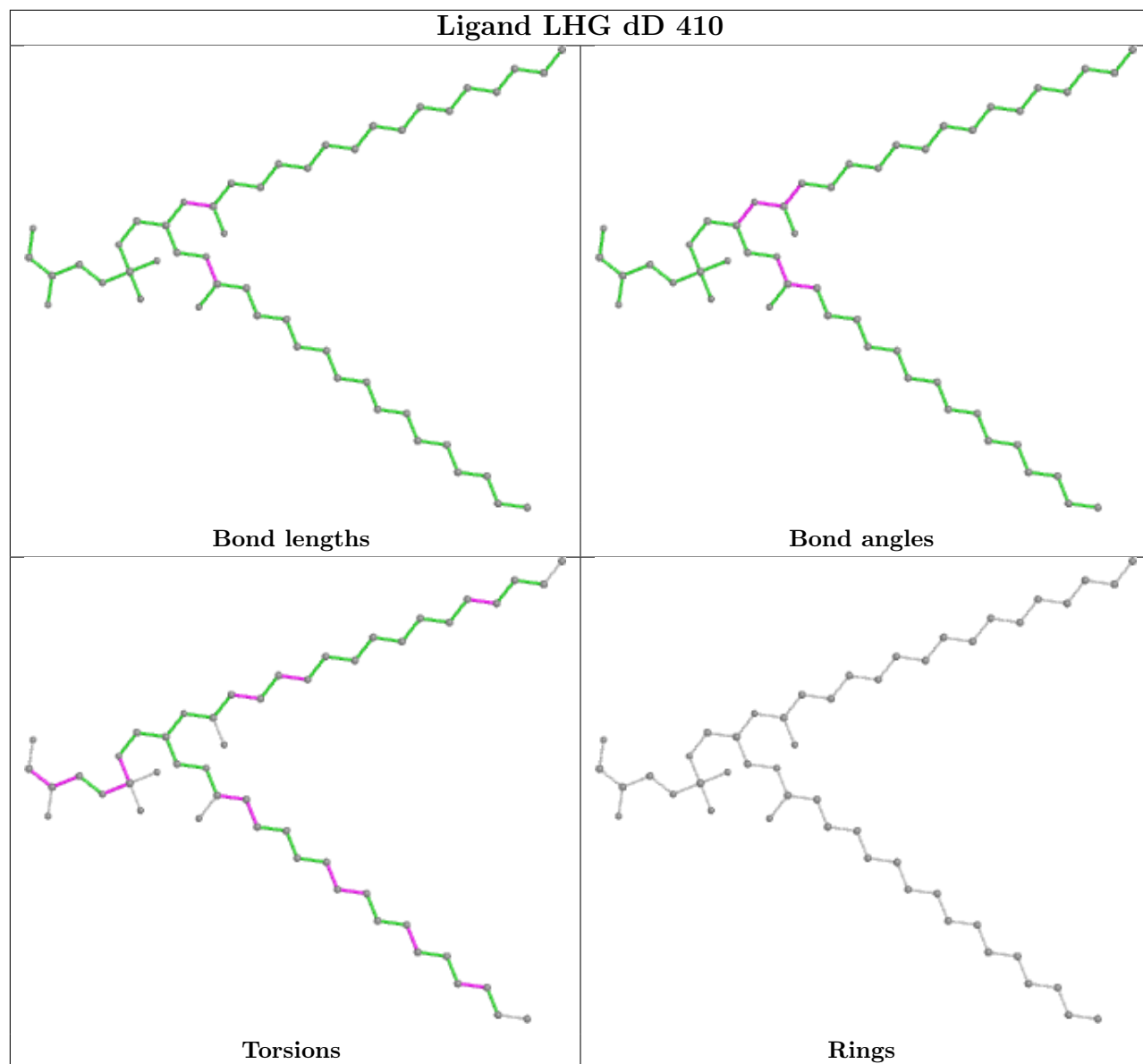


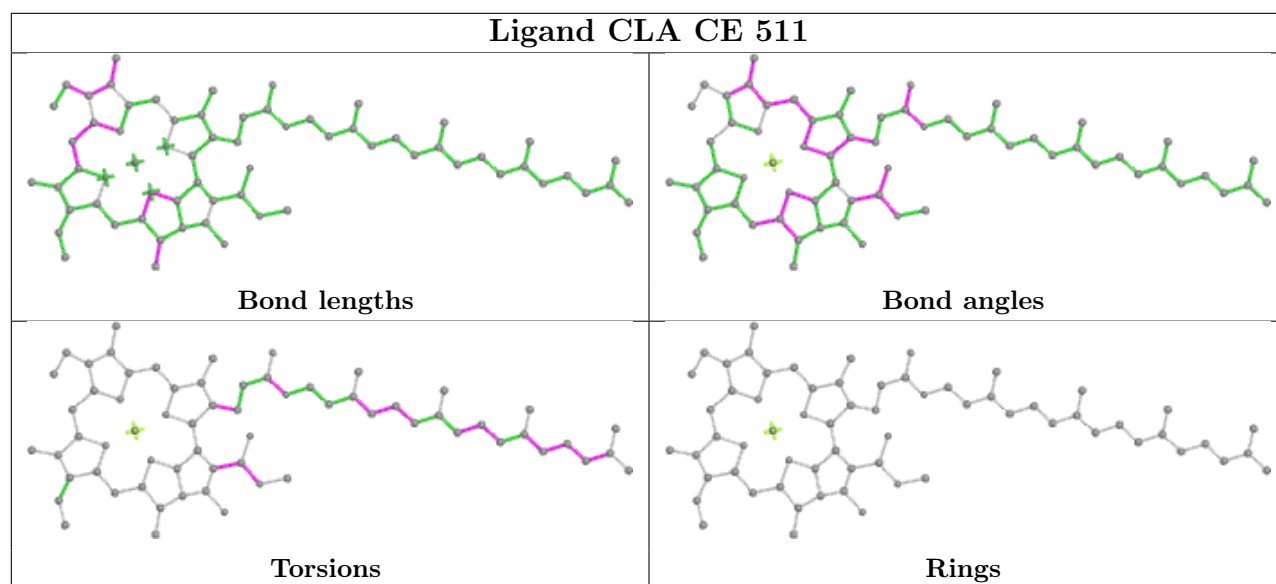
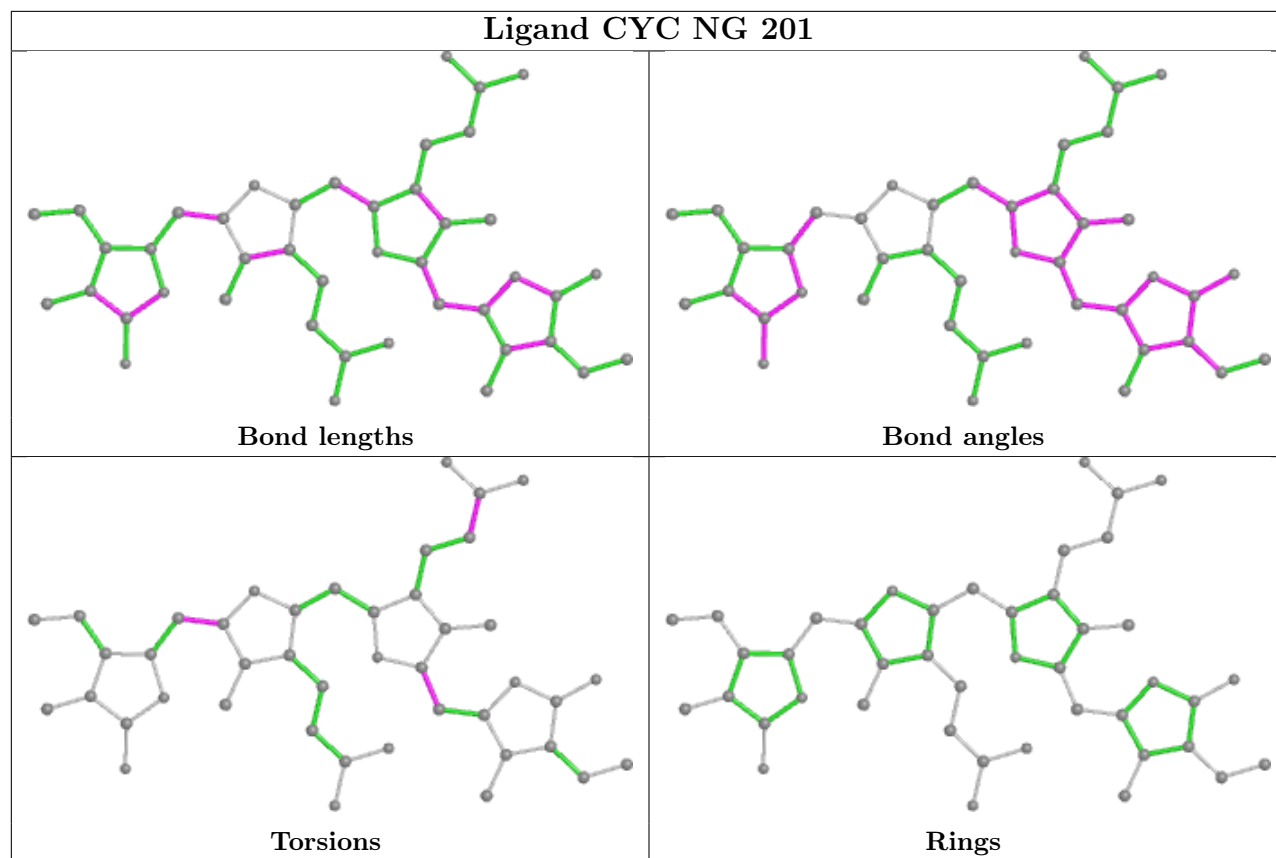


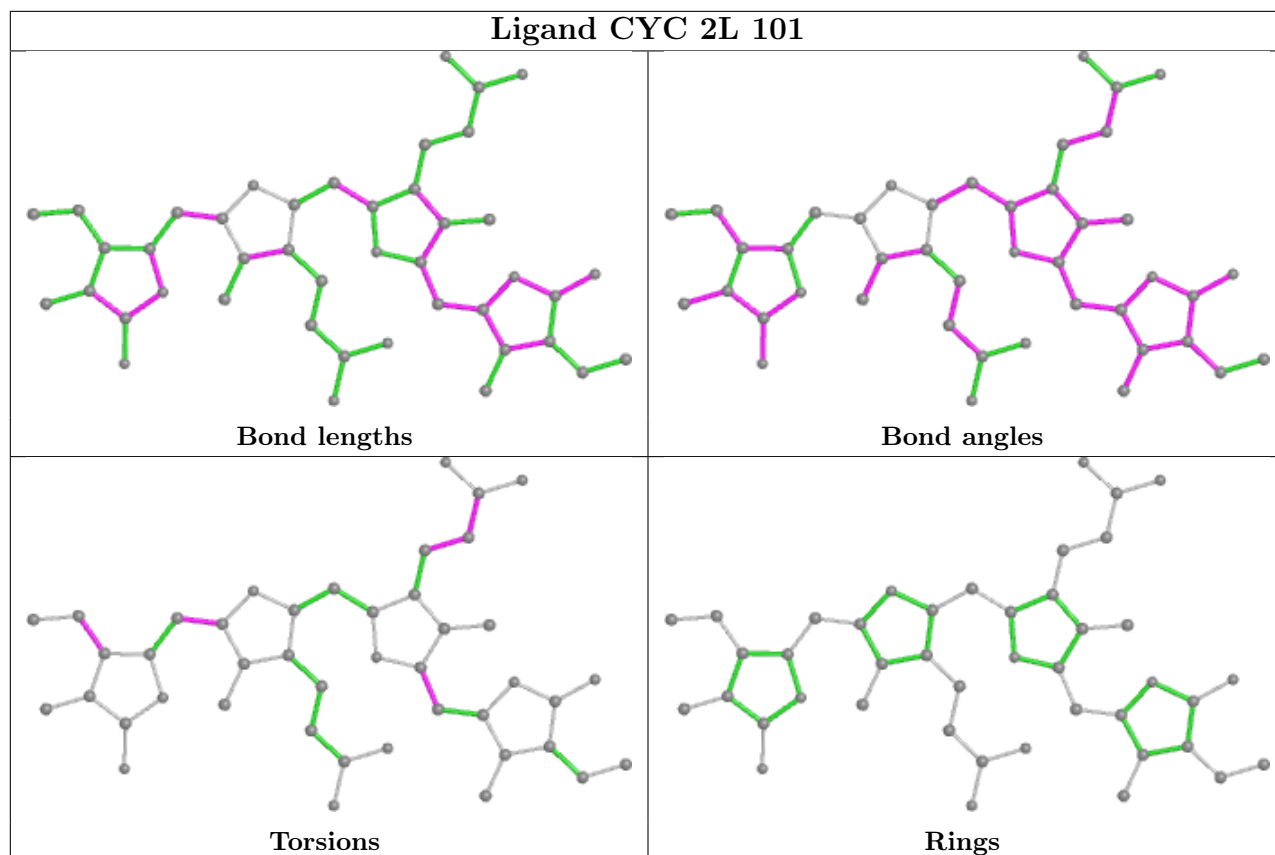
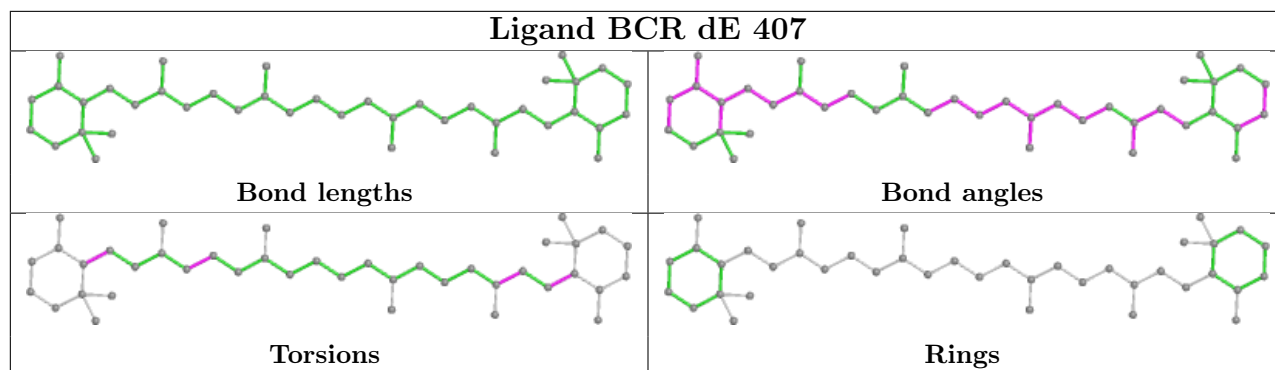


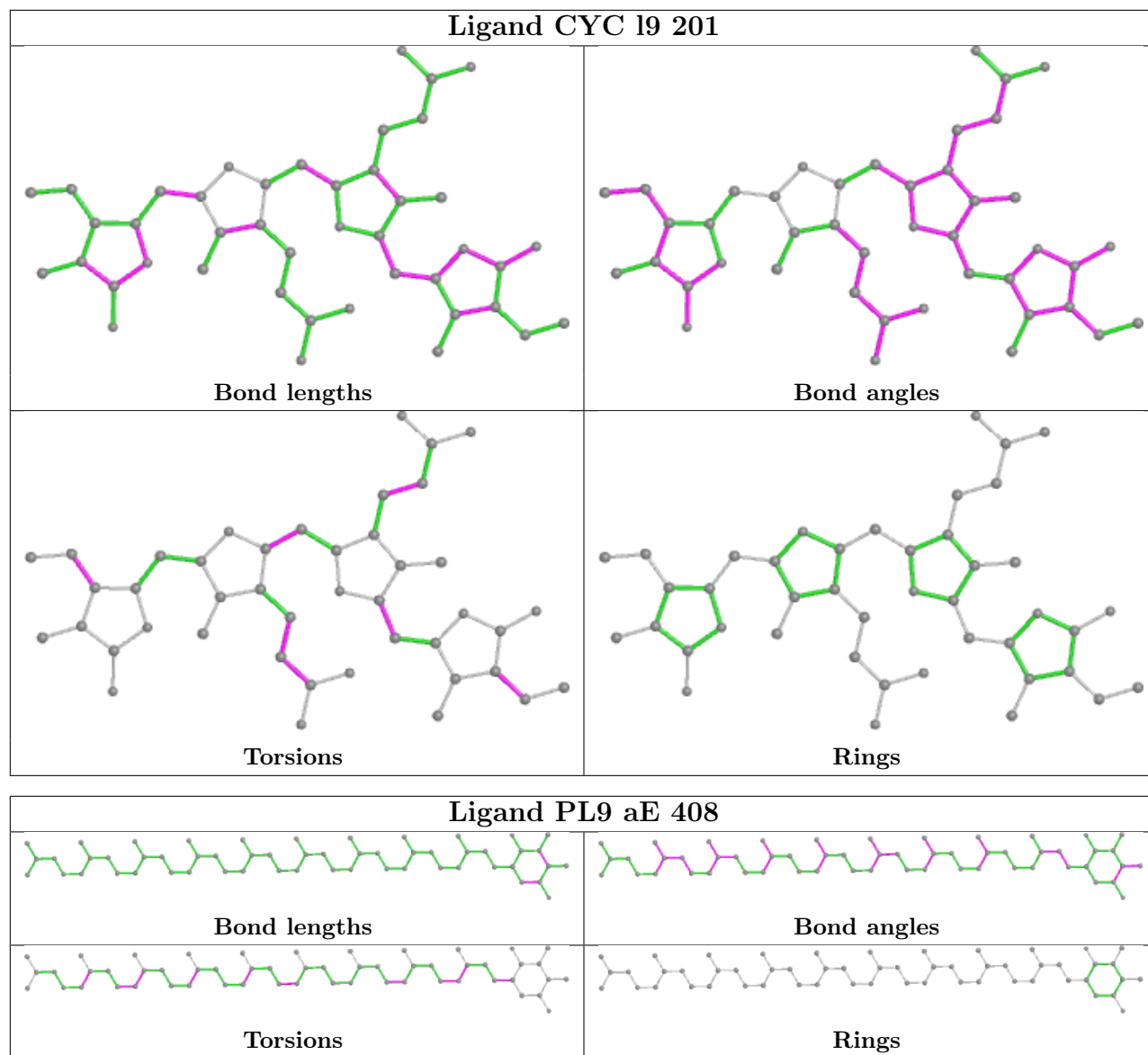


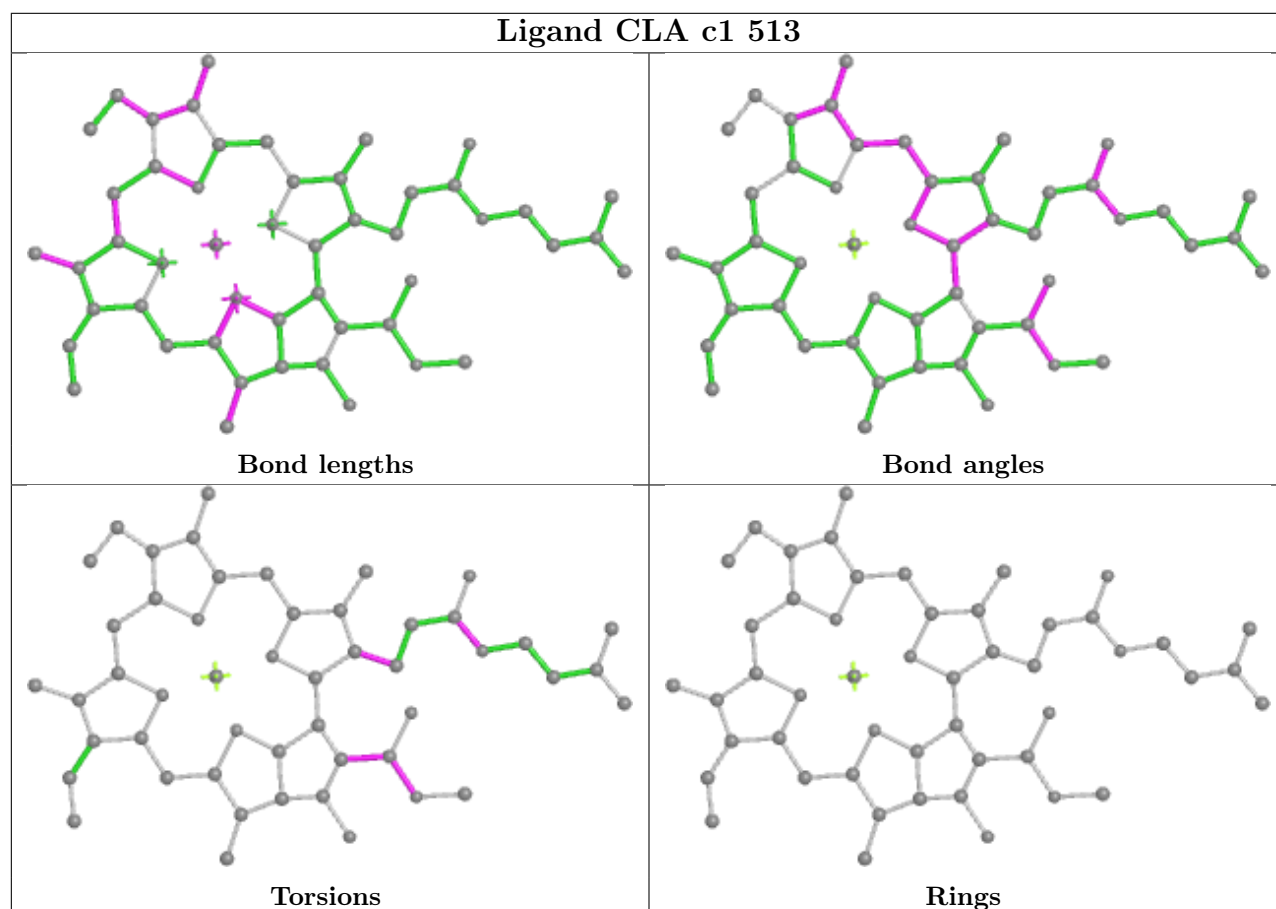
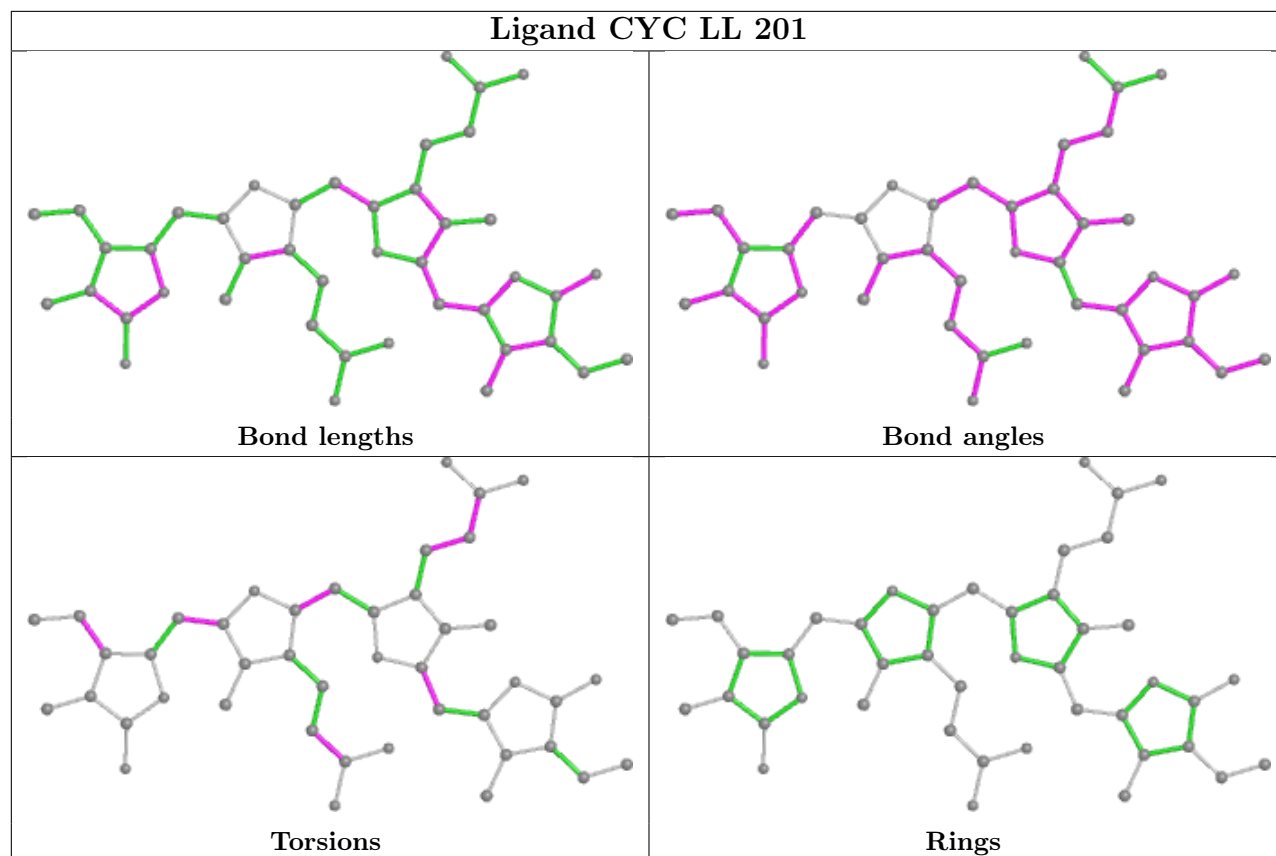


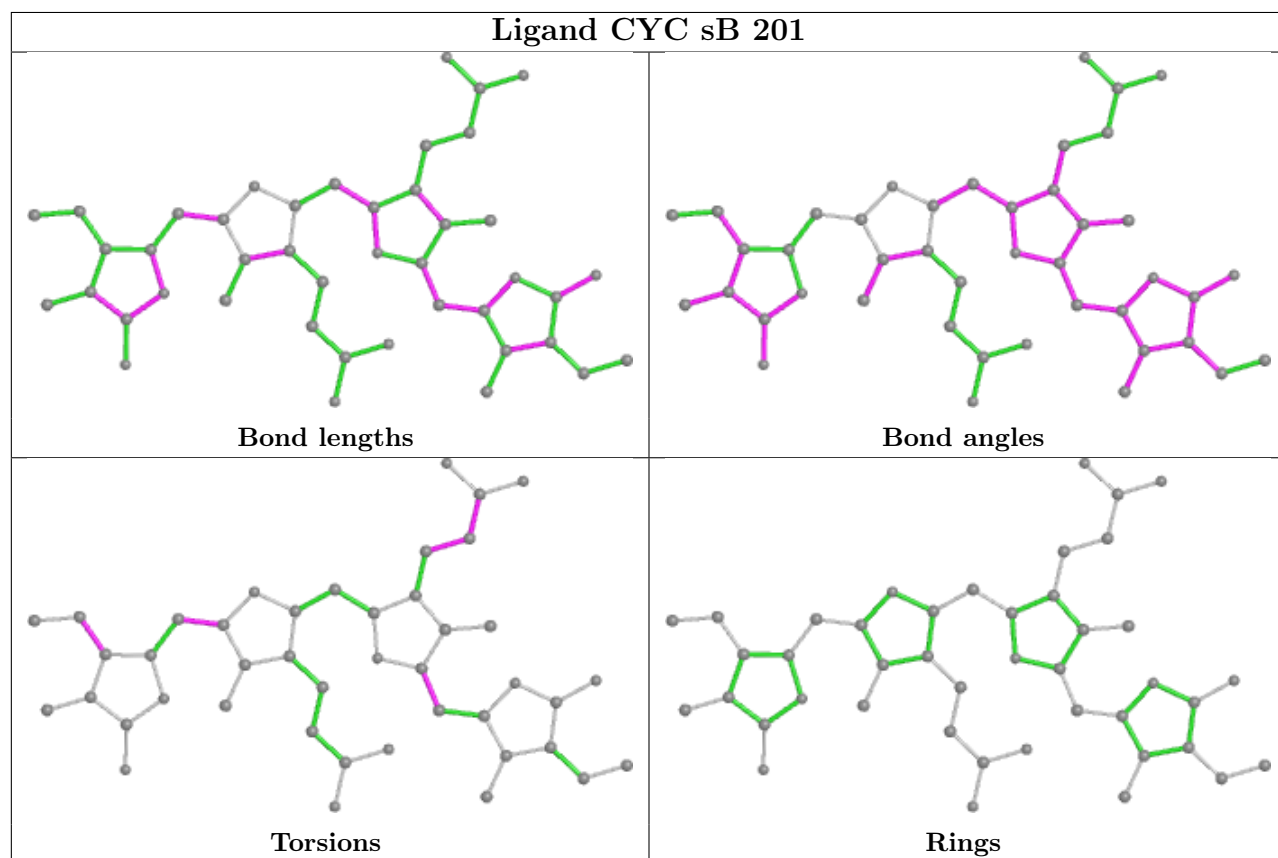
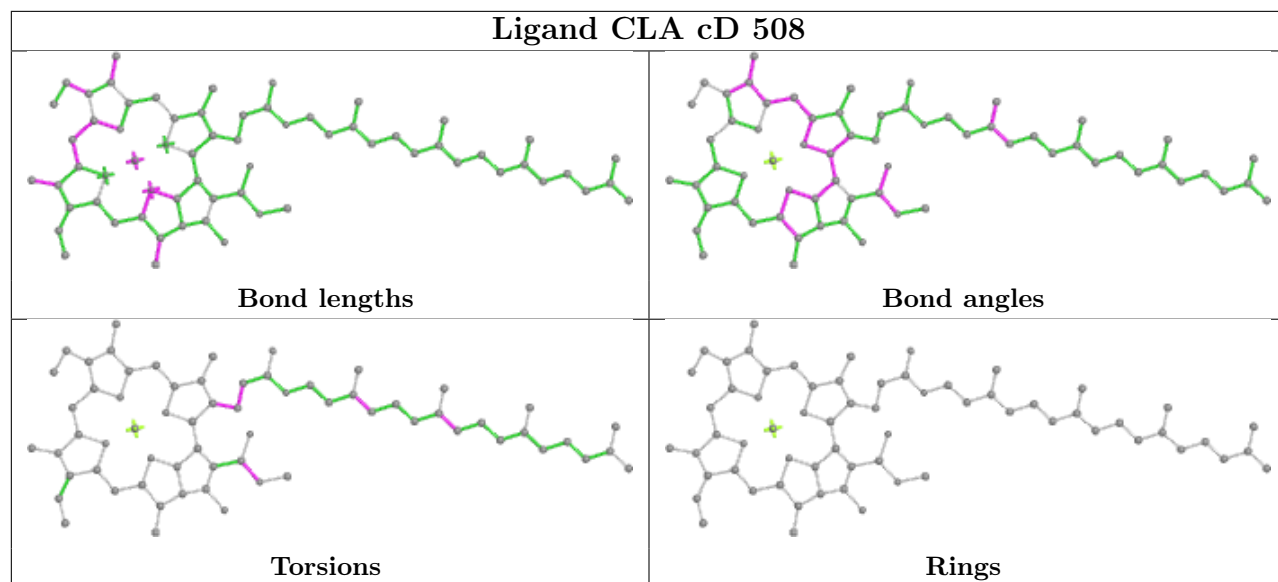


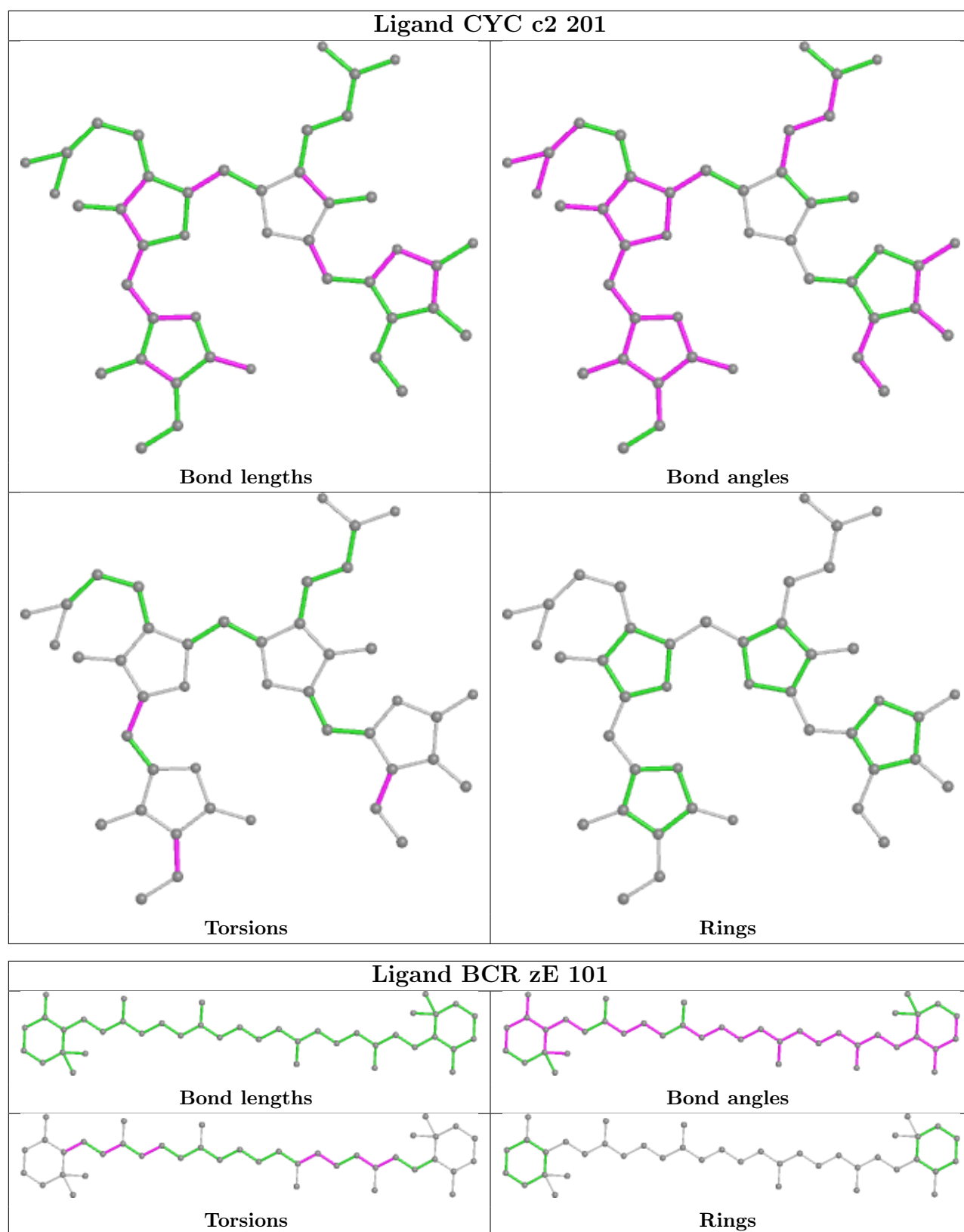


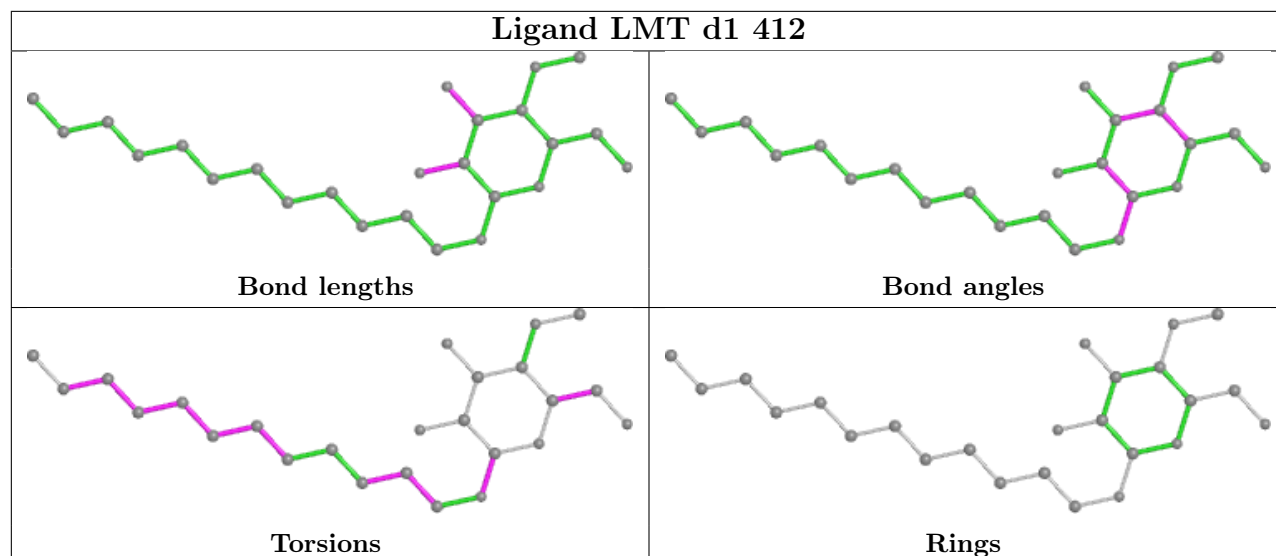












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

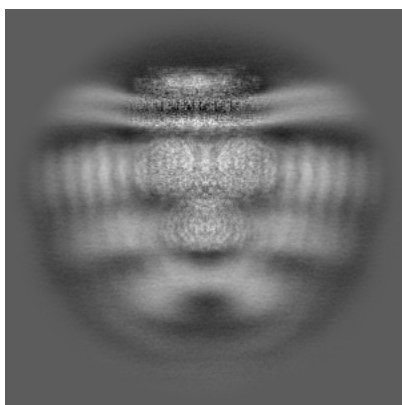
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-37749. These allow visual inspection of the internal detail of the map and identification of artifacts.

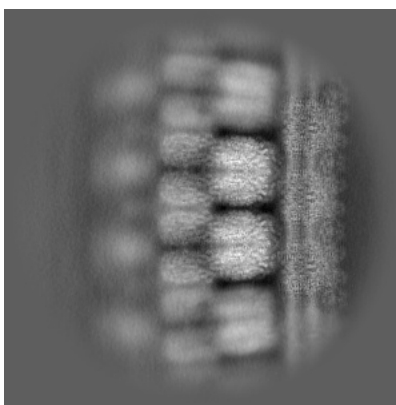
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

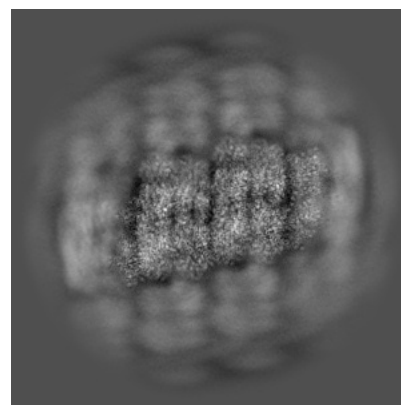
6.1.1 Primary map



X



Y

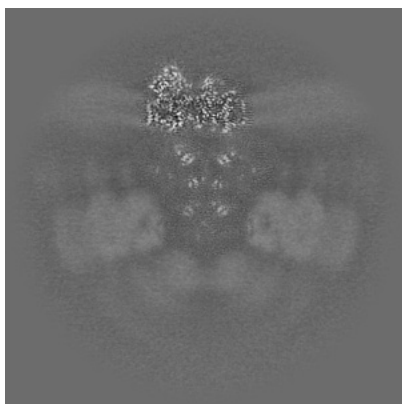


Z

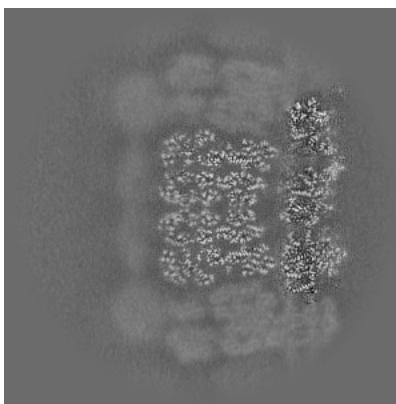
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

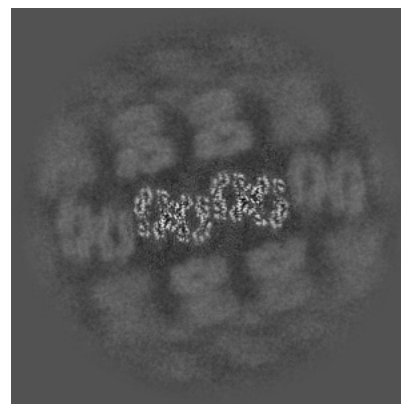
6.2.1 Primary map



X Index: 200



Y Index: 200

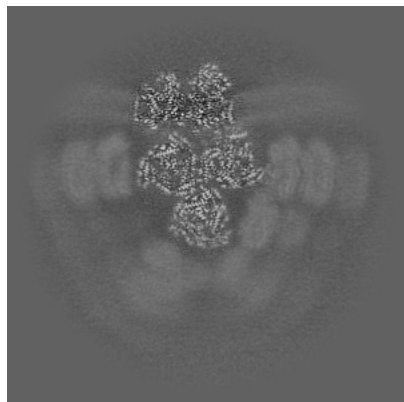


Z Index: 200

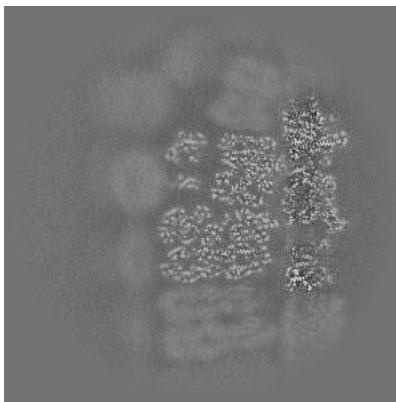
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

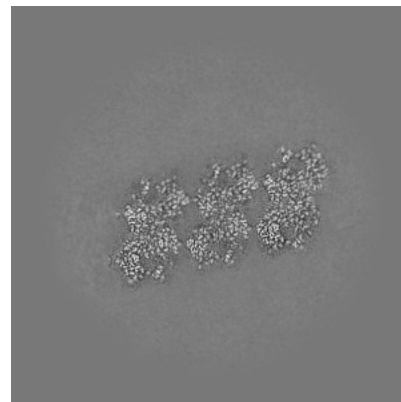
6.3.1 Primary map



X Index: 152



Y Index: 180

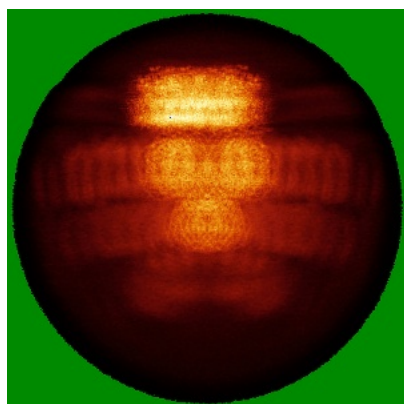


Z Index: 291

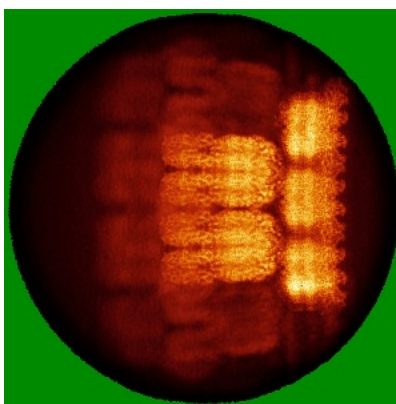
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

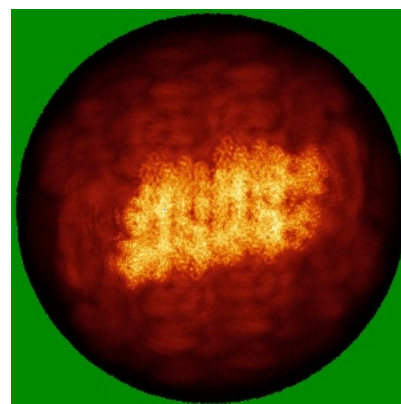
6.4.1 Primary map



X



Y



Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.16. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

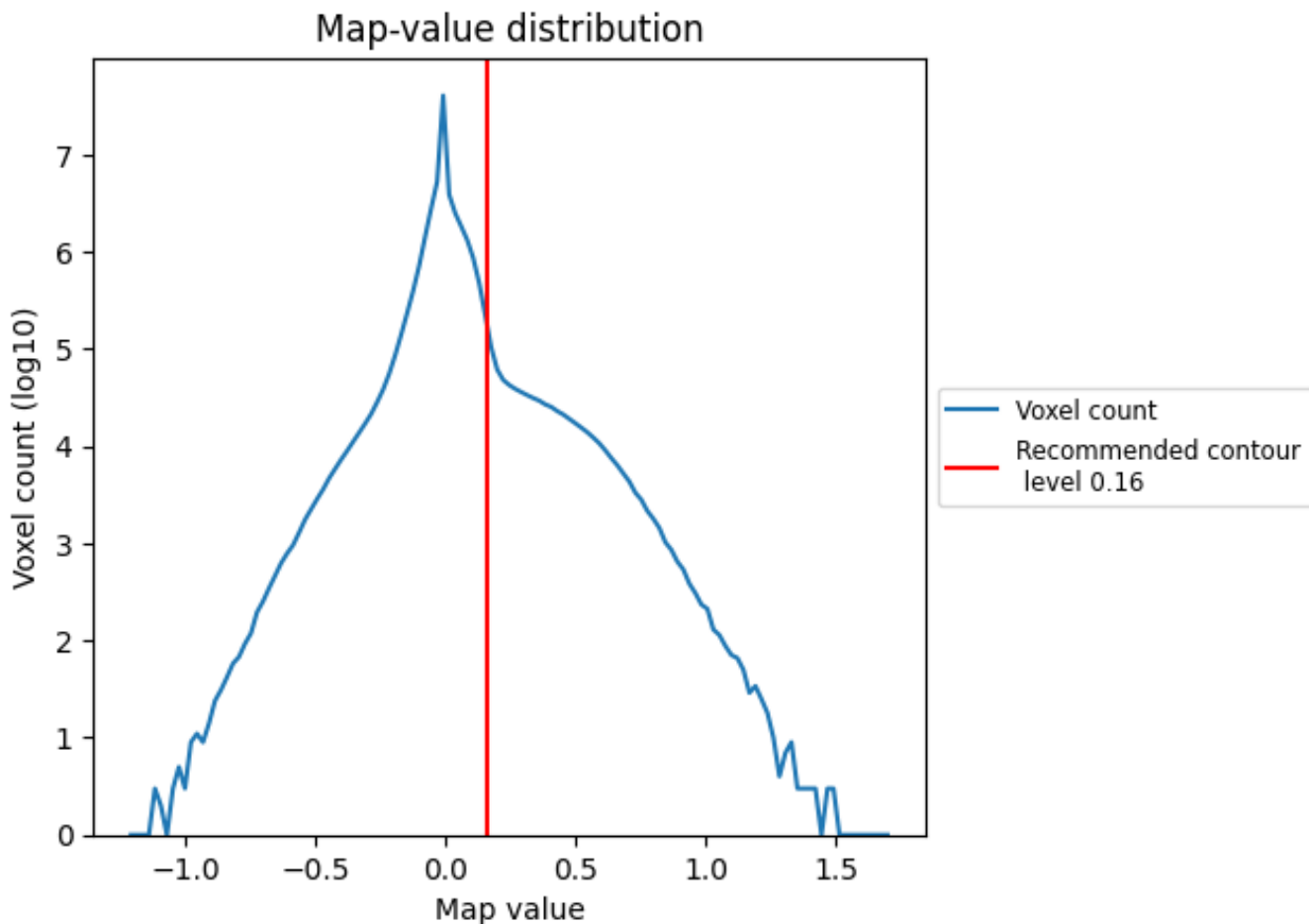
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

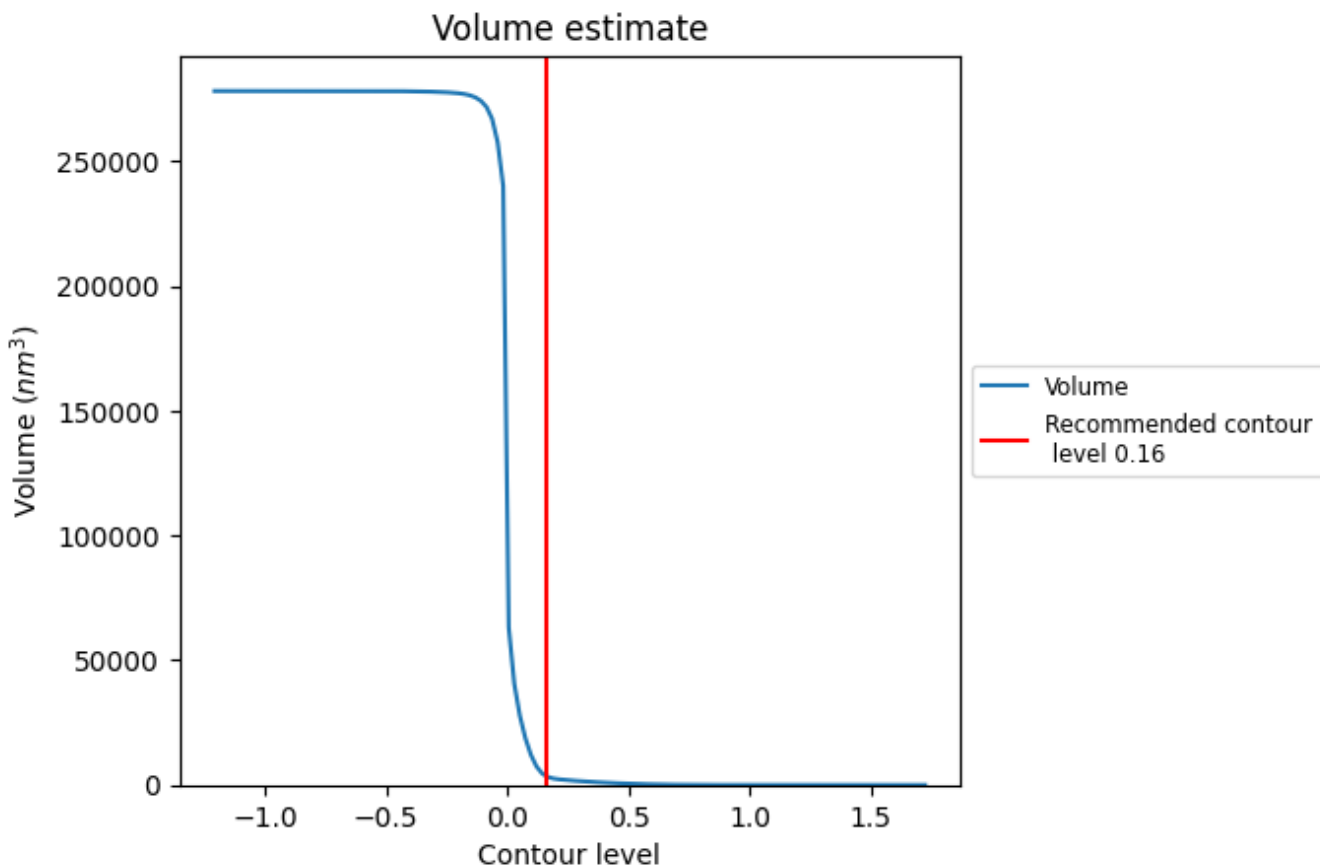
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

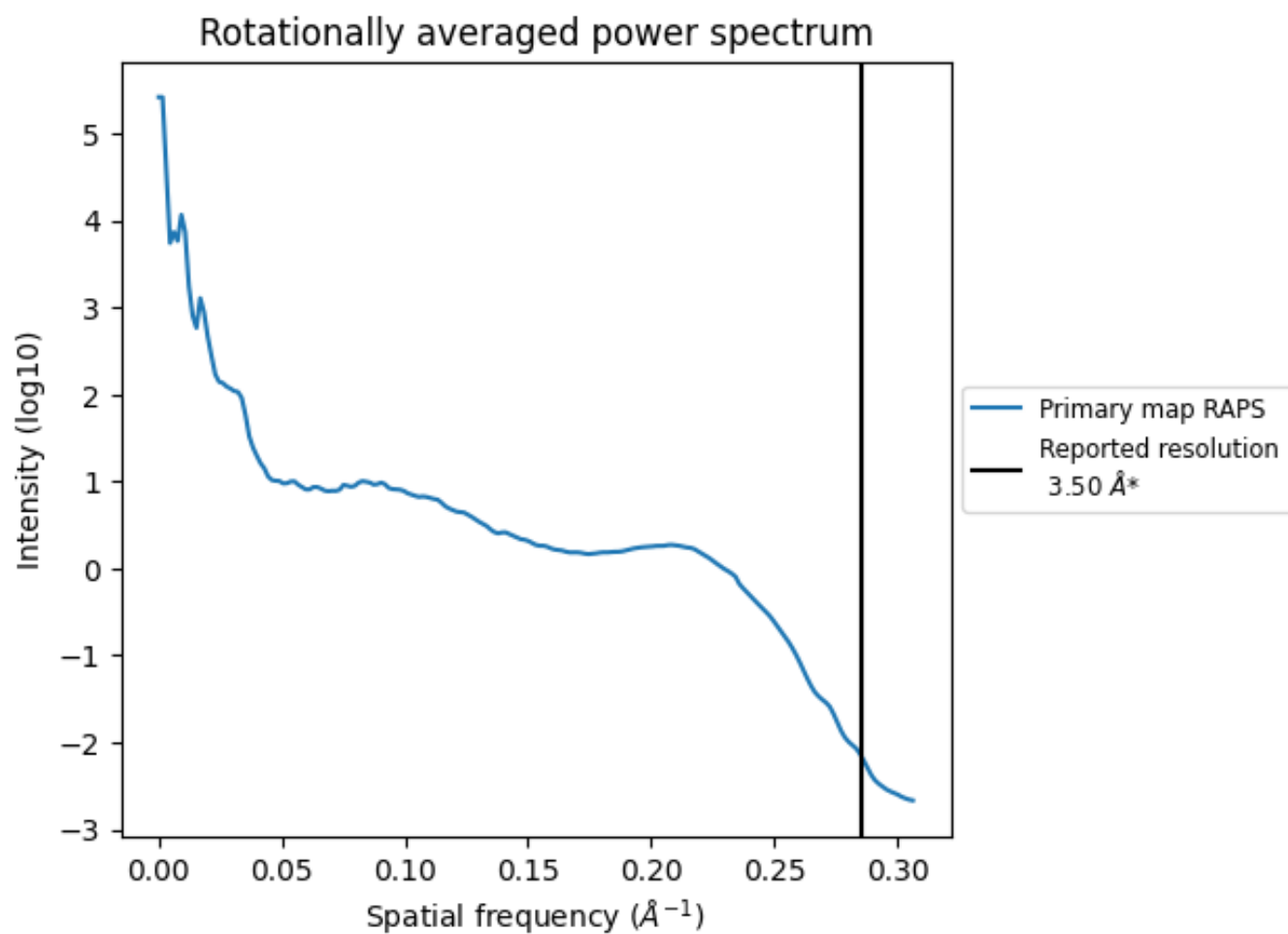
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3581 nm^3 ; this corresponds to an approximate mass of 3235 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum i



*Reported resolution corresponds to spatial frequency of 0.286 Å⁻¹

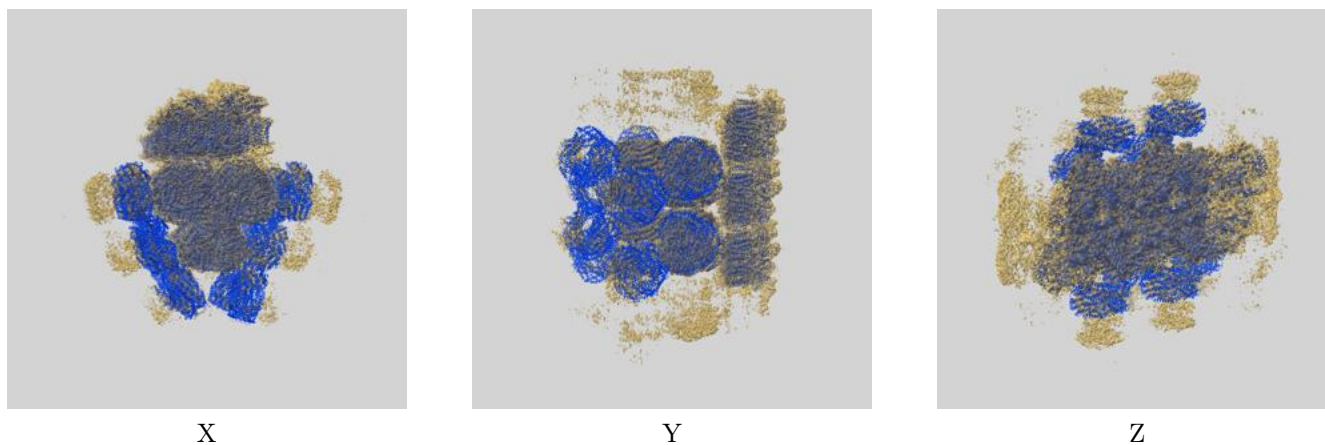
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

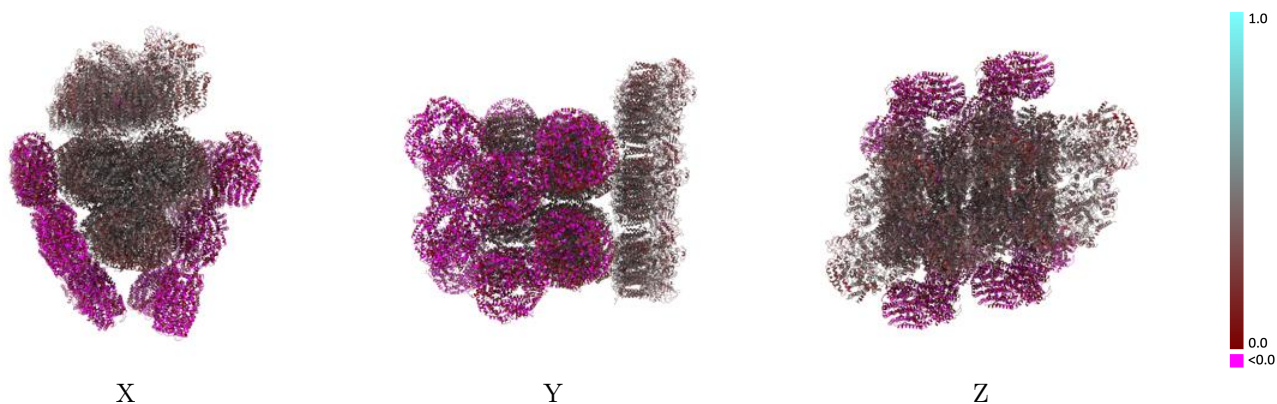
This section contains information regarding the fit between EMDB map EMD-37749 and PDB model 8WQL. Per-residue inclusion information can be found in section [3](#) on page [99](#).

9.1 Map-model overlay [i](#)



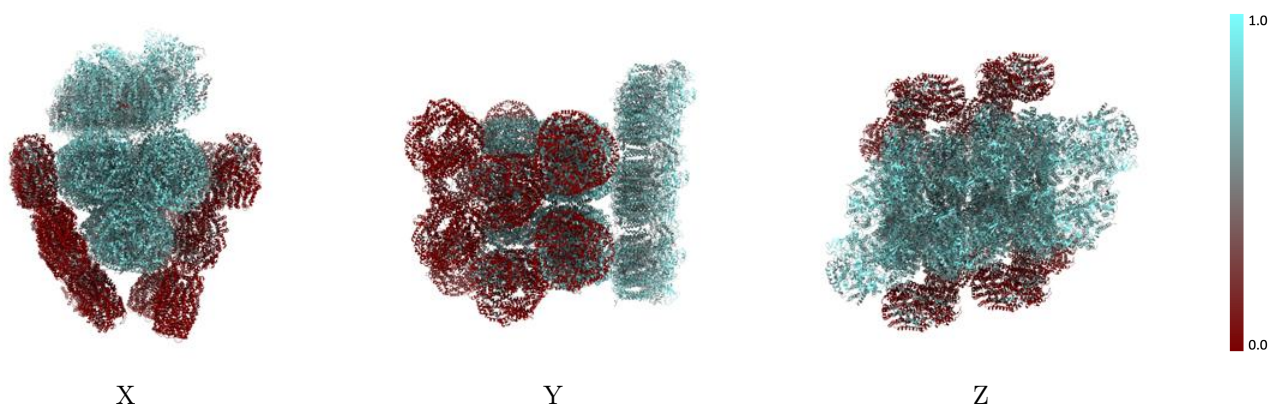
The images above show the 3D surface view of the map at the recommended contour level 0.16 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



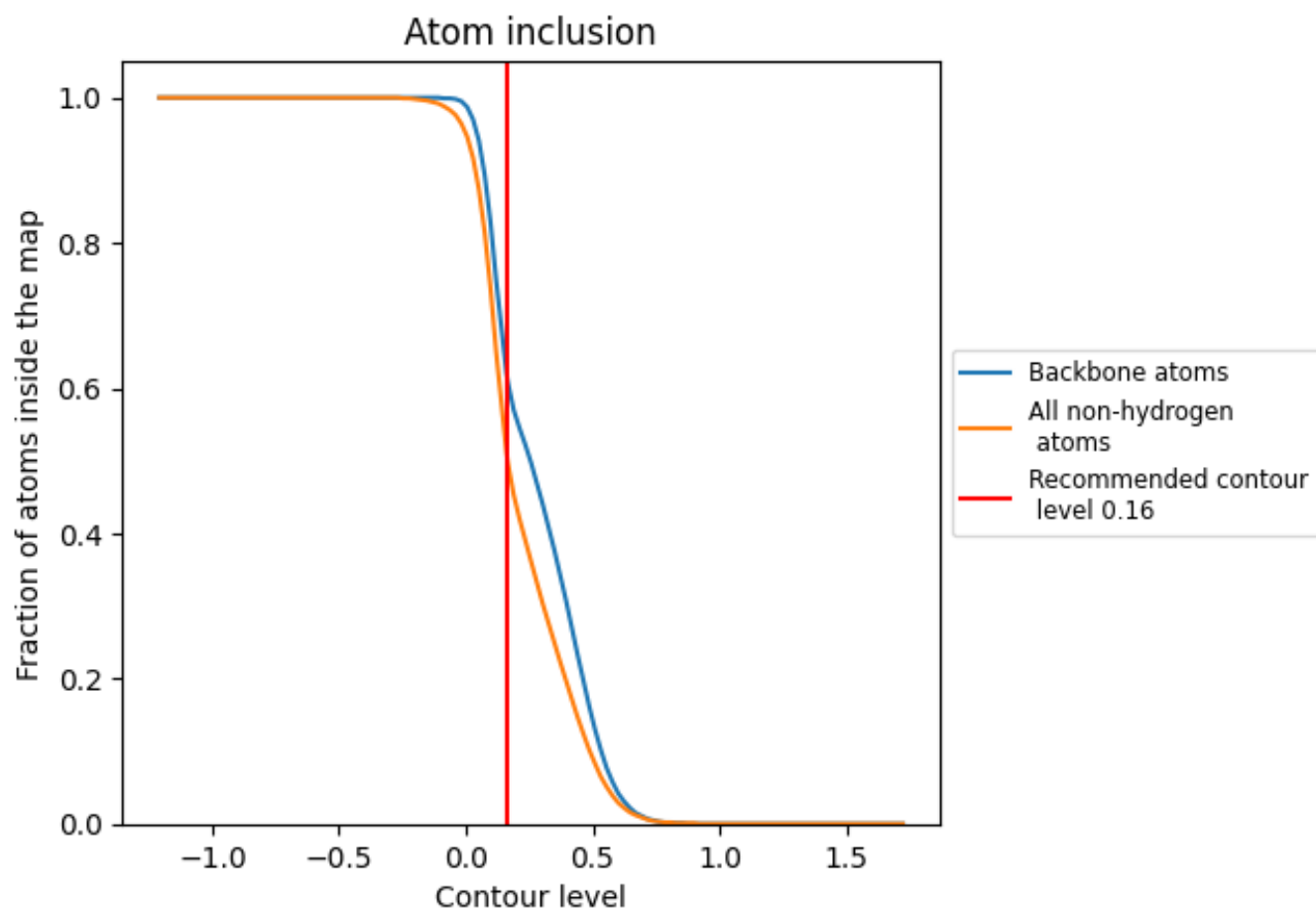
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.16).

9.4 Atom inclusion [i](#)



At the recommended contour level, 62% of all backbone atoms, 51% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary





















































































The table lists the average atom inclusion at the recommended contour level (0.16) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5110	0.2640
1G	0.7400	0.3490
1L	0.7520	0.3550
2G	0.7450	0.4140
2L	0.7550	0.4180
3F	0.7550	0.4110
3K	0.7630	0.4170
4G	0.7210	0.3480
4L	0.7350	0.3610
5G	0.7590	0.3770
5L	0.7840	0.3990
6G	0.7310	0.3910
6L	0.7440	0.4080
7G	0.7730	0.3670
7L	0.7720	0.3720
8G	0.7440	0.4210
8L	0.7730	0.4300
9F	0.7650	0.3630
9K	0.7710	0.3670
A1	0.6720	0.3960
AD	0.6470	0.3870
AE	0.6800	0.3980
AG	0.7730	0.3430
AL	0.7720	0.3470
B1	0.6740	0.3850
B2	0.1420	0.0840
B3	0.1830	0.0720
B4	0.7730	0.4060
B5	0.2070	0.0720
B6	0.1130	0.0450
B7	0.1570	0.0740
B8	0.2250	0.1140
B9	0.1650	0.0990
BA	0.1760	0.0460
BB	0.7750	0.4030























































































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Chain	Atom inclusion	Q-score
BC	 0.1550	 0.0670
BD	 0.6680	 0.3910
BE	 0.6670	 0.3850
BG	 0.6940	 0.3580
BH	 0.2280	 0.1160
BI	 0.1520	 0.0970
BJ	 0.2150	 0.1020
BL	 0.6650	 0.3460
C1	 0.6850	 0.3980
C4	 0.7650	 0.3960
CB	 0.7720	 0.3990
CD	 0.6720	 0.3920
CE	 0.6880	 0.3960
D1	 0.6680	 0.4020
DD	 0.6520	 0.4000
DE	 0.6580	 0.4000
E1	 0.7070	 0.3750
ED	 0.7080	 0.3790
EE	 0.7040	 0.3680
EF	 0.7200	 0.4300
EK	 0.6850	 0.4090
F1	 0.6750	 0.3500
FD	 0.6930	 0.3490
FE	 0.6970	 0.3510
GG	 0.7580	 0.4100
GL	 0.7670	 0.4190
H1	 0.4490	 0.3060
HD	 0.5490	 0.3530
HE	 0.5540	 0.3450
HG	 0.7820	 0.4130
HL	 0.7800	 0.4220
I1	 0.6410	 0.4170
ID	 0.6220	 0.4200
IE	 0.6560	 0.4250
IF	 0.7490	 0.3590
IG	 0.6930	 0.3160
IK	 0.7710	 0.3780
IL	 0.7070	 0.3200
J1	 0.5950	 0.3900
JD	 0.5750	 0.3870
JE	 0.5630	 0.3870
JF	 0.7470	 0.3460

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Chain	Atom inclusion	Q-score
JG	 0.8060	 0.4140
JK	 0.7450	 0.3650
JL	 0.7910	 0.4010
K1	 0.6320	 0.3750
KD	 0.6530	 0.3590
KE	 0.6840	 0.3760
KF	 0.7760	 0.3870
KG	 0.8000	 0.3840
KK	 0.7970	 0.4040
KL	 0.7990	 0.3830
L1	 0.5850	 0.3930
LD	 0.5750	 0.3990
LE	 0.6110	 0.3920
LF	 0.7260	 0.3830
LG	 0.7880	 0.4270
LK	 0.7520	 0.4020
LL	 0.7940	 0.4300
M1	 0.5390	 0.3770
MD	 0.5050	 0.3690
ME	 0.5420	 0.3760
MF	 0.7770	 0.3660
MG	 0.8010	 0.3990
MK	 0.7780	 0.3760
ML	 0.7920	 0.3960
NF	 0.7540	 0.4360
NG	 0.7280	 0.3660
NK	 0.7660	 0.4430
NL	 0.7500	 0.3830
O1	 0.7140	 0.2770
O4	 0.6500	 0.2890
OB	 0.6570	 0.2970
OD	 0.7170	 0.2720
OE	 0.7250	 0.2720
OG	 0.7680	 0.4150
OL	 0.7770	 0.4260
P4	 0.7040	 0.3210
PB	 0.7190	 0.3270
PG	 0.7590	 0.4210
PL	 0.7840	 0.4270
Q1	 0.6200	 0.2630
Q4	 0.6980	 0.3240
QB	 0.7050	 0.3320





















































































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Chain	Atom inclusion	Q-score
QD	0.6270	0.2670
QE	0.6320	0.2670
QG	0.8050	0.4120
QL	0.7970	0.4050
R1	0.5950	0.2720
R4	0.7450	0.3290
RB	0.7510	0.3410
RD	0.5990	0.2640
RE	0.5950	0.2730
RG	0.7180	0.3850
RL	0.7530	0.4060
S1	0.7620	0.4420
S4	0.7210	0.3530
SB	0.7450	0.3730
SD	0.7660	0.4730
SE	0.7530	0.4360
SG	0.7370	0.3430
SL	0.7450	0.3610
T1	0.6130	0.4170
T4	0.7210	0.3200
TB	0.7260	0.3280
TD	0.5660	0.4020
TE	0.6130	0.4180
TG	0.7400	0.3370
TL	0.7490	0.3410
U1	0.8120	0.3100
U4	0.7070	0.3790
UB	0.7340	0.3840
UD	0.8120	0.3070
UE	0.8150	0.3120
UG	0.8280	0.3690
UL	0.8230	0.3720
V1	0.8210	0.3480
V4	0.6450	0.2890
VB	0.6510	0.3000
VD	0.8270	0.3510
VE	0.8230	0.3480
VG	0.7860	0.3570
VL	0.7910	0.3600
W4	0.7190	0.3040
WB	0.7290	0.3100
WG	0.7680	0.3990





















































































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Chain	Atom inclusion	Q-score
WL	 0.7970	 0.4150
X1	 0.5700	 0.3430
X4	 0.6830	 0.3140
XB	 0.7000	 0.3280
XD	 0.5890	 0.3420
XE	 0.5380	 0.3320
XF	 0.7370	 0.3780
XK	 0.7490	 0.3900
Y1	 0.5950	 0.3020
Y4	 0.7620	 0.3330
YB	 0.7840	 0.3470
YD	 0.5950	 0.3020
YE	 0.6030	 0.2970
YF	 0.7950	 0.4050
YK	 0.7910	 0.4040
Z1	 0.6090	 0.3380
Z4	 0.7170	 0.3480
ZB	 0.7360	 0.3590
ZD	 0.6100	 0.3260
ZE	 0.6160	 0.3390
ZF	 0.7970	 0.3880
ZK	 0.7950	 0.3880
a1	 0.6520	 0.3830
a4	 0.7310	 0.3170
aB	 0.7460	 0.3210
aD	 0.6320	 0.3760
aE	 0.6490	 0.3790
aF	 0.7910	 0.4360
aK	 0.7950	 0.4380
b1	 0.7170	 0.4050
b2	 0.2980	 0.0820
b3	 0.0320	 0.0320
b4	 0.6960	 0.3800
b5	 0.3290	 0.1090
b6	 0.1440	 0.0370
b7	 0.0690	 0.0160
b8	 0.2240	 0.1080
b9	 0.2320	 0.0690
bA	 0.0280	 0.0080
bB	 0.7140	 0.3860
bC	 0.0890	 0.0100
bD	 0.6840	 0.3990

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Chain	Atom inclusion	Q-score
bE	 0.7240	 0.4070
bF	 0.7660	 0.4210
bH	 0.3360	 0.0970
bI	 0.1920	 0.0620
bJ	 0.2330	 0.0800
bK	 0.7740	 0.4250
c1	 0.6350	 0.3730
c2	 0.0840	 0.1140
c3	 0.0220	 0.0220
c5	 0.1710	 0.0930
c6	 0.0450	 -0.0150
c7	 0.0160	 0.0220
c8	 0.1370	 0.0680
c9	 0.0910	 0.0990
cA	 0.0710	 0.0260
cC	 0.0260	 0.0040
cD	 0.6340	 0.3750
cE	 0.6200	 0.3690
cF	 0.7960	 0.4210
cH	 0.1790	 0.0810
cI	 0.0480	 0.0970
cJ	 0.1920	 0.0970
cK	 0.7890	 0.4190
d1	 0.6770	 0.4100
d2	 0.0040	 0.0360
d3	 0.0350	 0.0430
d5	 0.1730	 0.0460
d6	 0.0120	 0.0350
d7	 0.0160	 0.0020
d8	 0.3140	 0.0650
d9	 0.0080	 0.0520
dA	 0.0110	 0.0220
dC	 0.0110	 0.0250
dD	 0.6460	 0.4050
dE	 0.6680	 0.4050
dF	 0.7160	 0.3690
dH	 0.1800	 0.0580
dI	 0.0000	 0.0560
dJ	 0.3450	 0.0550
dK	 0.7300	 0.3760
e1	 0.6770	 0.3620
e2	 0.0060	 0.0730

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Chain	Atom inclusion	Q-score
e3	0.0310	0.0170
e5	0.0420	0.0260
e6	0.0010	0.0370
e7	0.0130	0.0200
e8	0.0680	0.0450
e9	0.0110	0.0960
eA	0.0200	0.0250
eC	0.0060	0.0170
eD	0.6570	0.3590
eE	0.6690	0.3660
eF	0.7640	0.4260
eH	0.0340	0.0280
eI	0.0020	0.0380
eJ	0.0620	0.0250
eK	0.7630	0.4250
f1	0.6960	0.3810
f2	0.0500	0.0240
f3	0.0910	0.0390
f5	0.0530	0.0170
f6	0.0220	0.0070
f7	0.0090	0.0120
f8	0.1180	0.0260
f9	0.0630	0.0270
fA	0.0520	0.0250
fC	0.0330	0.0200
fD	0.6690	0.3860
fE	0.6900	0.3830
fF	0.7490	0.4150
fH	0.1310	0.0430
fI	0.0770	0.0420
fJ	0.1320	0.0360
fK	0.7580	0.4170
g2	0.1030	0.0850
g3	0.0560	0.0150
g5	0.1900	0.0860
g6	0.0580	0.0420
g7	0.0540	0.0250
g8	0.2150	0.1120
g9	0.1010	0.0670
gA	0.0650	0.0110
gC	0.0930	0.0250
gF	0.7970	0.4170

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Chain	Atom inclusion	Q-score
gH	0.2460	0.0970
gI	0.0730	0.0680
gJ	0.2260	0.0960
gK	0.7970	0.4160
h1	0.6380	0.3710
h2	0.1390	0.0470
h3	0.0090	0.0060
h5	0.2470	0.0580
h6	0.0820	0.0440
h7	0.0120	0.0200
h8	0.1780	0.0330
h9	0.0880	0.0500
hA	0.0030	0.0130
hC	0.0120	-0.0050
hD	0.5840	0.3690
hE	0.6500	0.3820
hF	0.7990	0.4100
hH	0.2410	0.0410
hI	0.0280	0.0400
hJ	0.2420	0.0500
hK	0.7950	0.4070
i1	0.6410	0.3930
i2	0.1350	0.0610
i3	0.0140	0.0110
i5	0.1160	0.0780
i6	0.0600	0.0110
i7	0.0270	0.0220
i8	0.0730	0.0830
i9	0.1030	0.0550
iA	0.0030	0.0050
iC	0.0610	0.0300
iD	0.6140	0.4150
iE	0.5890	0.3860
iF	0.7290	0.3840
iH	0.1100	0.0860
iI	0.1050	0.0620
iJ	0.0920	0.0540
iK	0.7460	0.4010
j1	0.4480	0.3120
j2	0.1540	0.0490
j3	0.0560	0.0210
j5	0.1460	0.0780





















































































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Chain	Atom inclusion	Q-score
j6	0.0850	0.0220
j7	0.0440	0.0110
j8	0.1580	0.0620
j9	0.1630	0.0270
jA	0.0720	0.0190
jC	0.0520	0.0140
jD	0.4540	0.3130
jE	0.4630	0.3170
jF	0.7470	0.3620
jH	0.2430	0.0500
jI	0.1630	0.0510
jJ	0.1650	0.0620
jK	0.7640	0.3730
k1	0.6110	0.3840
k2	0.0530	0.0420
k3	0.0390	-0.0050
k5	0.0350	0.0360
k6	0.0230	0.0040
k7	0.0030	0.0050
k8	0.0370	0.0420
k9	0.0730	0.0570
kA	0.0240	0.0040
kC	0.0120	0.0380
kD	0.6200	0.3920
kE	0.5980	0.3840
kF	0.7380	0.3360
kH	0.1100	0.0570
kI	0.0400	0.0220
kJ	0.0640	0.0280
kK	0.7460	0.3500
l1	0.6740	0.4040
l2	0.0200	0.0320
l3	0.0820	0.0180
l5	0.0840	0.0280
l6	0.0050	0.0340
l7	0.0160	0.0150
l8	0.1510	0.0330
l9	0.0120	0.0440
lA	0.0430	0.0140
lC	0.0170	0.0080
lD	0.6260	0.3990
lE	0.6490	0.4090



































































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Chain	Atom inclusion	Q-score
lF	 0.8310	 0.3620
lH	 0.0950	 0.0280
lI	 0.0040	 0.0300
lJ	 0.1880	 0.0400
lK	 0.8370	 0.3730
m1	 0.5740	 0.4010
m2	 0.0410	 0.0300
m3	 0.0620	 0.0080
m5	 0.1630	 0.0330
m6	 0.0110	 0.0080
m7	 0.0190	 -0.0060
m8	 0.1510	 0.0440
m9	 0.0190	 0.0450
mA	 0.0480	 0.0450
mC	 0.0310	 -0.0070
mD	 0.5050	 0.3970
mE	 0.5200	 0.3850
mF	 0.7870	 0.3570
mH	 0.1540	 0.0550
mI	 0.0110	 0.0290
mJ	 0.2580	 0.0470
mK	 0.7940	 0.3610
nF	 0.7580	 0.3850
nK	 0.7810	 0.4020
o1	 0.7250	 0.2560
o4	 0.6810	 0.3260
oB	 0.6860	 0.3230
oD	 0.7190	 0.2590
oE	 0.7220	 0.2600
p4	 0.7260	 0.3460
pB	 0.7270	 0.3420
q1	 0.5990	 0.2270
q4	 0.7180	 0.3320
qB	 0.7270	 0.3420
qD	 0.5960	 0.2120
qE	 0.5880	 0.2160
r1	 0.6890	 0.2880
r4	 0.8250	 0.4180
rB	 0.8240	 0.4220
rD	 0.6380	 0.2880
rE	 0.6610	 0.2890
s4	 0.7950	 0.4020

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Chain	Atom inclusion	Q-score
sB	 0.8120	 0.4140
t1	 0.5610	 0.3880
t4	 0.7840	 0.3840
tB	 0.7810	 0.3800
tD	 0.5190	 0.3830
tE	 0.5450	 0.3790
u1	 0.8020	 0.3030
u4	 0.6660	 0.3140
uB	 0.6820	 0.3210
uD	 0.7980	 0.2960
uE	 0.8040	 0.3060
v1	 0.7800	 0.3290
v4	 0.7180	 0.3480
vB	 0.7250	 0.3490
vD	 0.7790	 0.3190
vE	 0.7720	 0.3230
w4	 0.7360	 0.3460
wB	 0.7400	 0.3420
x1	 0.6020	 0.3240
x4	 0.8150	 0.4220
xB	 0.8270	 0.4210
xD	 0.5960	 0.3180
xE	 0.6290	 0.3330
y1	 0.4900	 0.3490
y4	 0.7920	 0.3980
yB	 0.8080	 0.4130
yD	 0.4830	 0.3580
yE	 0.4930	 0.3500
z1	 0.5840	 0.3230
z4	 0.7830	 0.3890
zB	 0.7780	 0.3860
zD	 0.5820	 0.3180
zE	 0.5630	 0.3120