



wwPDB EM Validation Summary Report ⓘ

Feb 19, 2025 – 04:14 PM JST

PDB ID : 8Z9D
EMDB ID : EMD-39860
Title : cryo-EM structure of PSII-LHCII megacomplex from spinach
Authors : Shan, J.Y.; Liu, Z.F.
Deposited on : 2024-04-23
Resolution : 3.22 Å(reported)

This is a wwPDB EM Validation Summary 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.dev117
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : **FAILED**
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.41.2

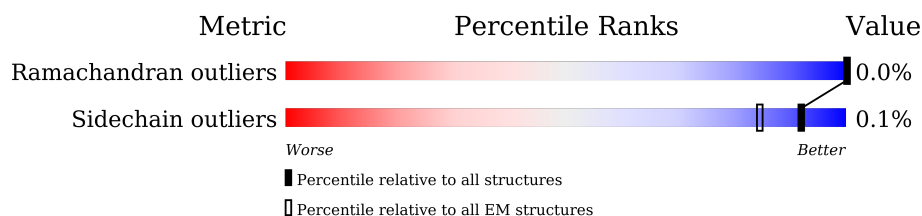
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.22 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.













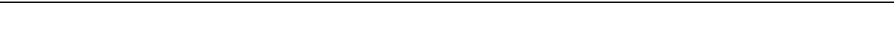

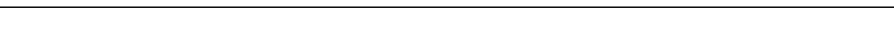
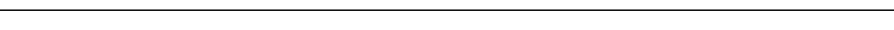











Metric	Whole archive (#Entries)	EM structures (#Entries)
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	351	95% 5%
1	AA	351	95% 5%
1	Aa	351	95% 5%
1	a	351	95% 5%
2	O	332	71% 29%
2	OO	332	71% 29%
2	Oo	332	70% 30%
2	o	332	70% 30%
3	R	286	79% 21%
3	RR	286	79% 21%










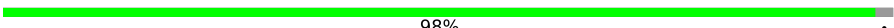
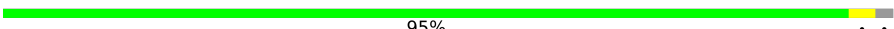
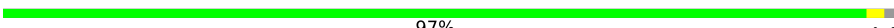
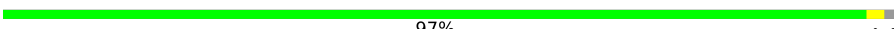












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Mol	Chain	Length	Quality of chain	
3	Rr	286		80% 20%
3	r	286		80% 20%
4	S	295		75% 25%
4	SS	295		75% 25%
4	Ss	295		72% 28%
4	s	295		72% 28%
5	T	33		91% 9%
5	TT	33		91% 9%
5	Tt	33		91% 9%
5	t	33		91% 9%
6	U	99		27% 73%
6	UU	99		27% 73%
6	Uu	99		26% 74%
6	u	99		26% 74%
7	W	137		39% 61%
7	WW	137		39% 61%
7	Ww	137		39% 61%
7	w	137		39% 61%
8	X	117		39% 61%
8	XX	117		41% 59%
8	Xx	117		29% 71%
8	x	117		29% 71%
9	G	267		80% 19%
9	GG	267		81% 19%
9	Gg	267		81% 19%

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Mol	Chain	Length	Quality of chain
9	N	267	 81% 19%
9	NN	267	 82% 18%
9	Nn	267	 82% 18%
9	Y	267	 82% 18%
9	YY	267	 81% 18%
9	Yy	267	 82% 18%
9	g	267	 81% 19%
9	n	267	 81% 18%
9	y	267	 82% 18%
10	Z	62	 98%
10	ZZ	62	 95%
10	Zz	62	 97%
10	z	62	 97%
11	4	259	 71% 28%
11	44	259	 71% 28%
12	P	267	 69% 30%
12	PP	267	 70% 30%
12	Pp	267	 70% 30%
12	p	267	 70% 30%
13	Q	232	 63% 37%
13	QQ	232	 63% 37%
13	Qq	232	 63% 37%
13	q	232	 63% 37%
14	1	267	 77% 22%
14	11	267	 76% 23%




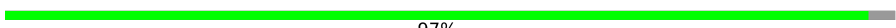
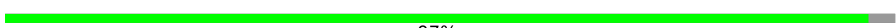








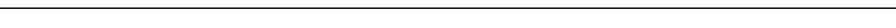


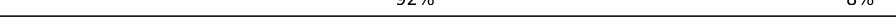
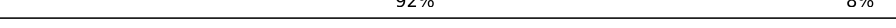
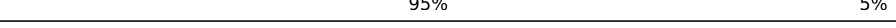
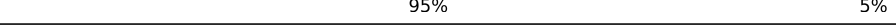
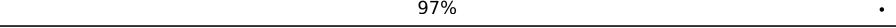
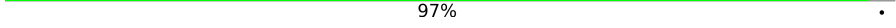
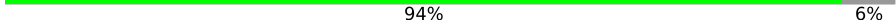
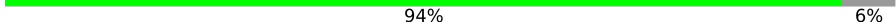
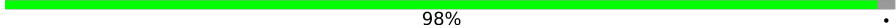
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Mol	Chain	Length	Quality of chain	
14	2	267	<div><div></div></div>	82% 18%
14	22	267	<div><div></div></div>	82% 18%
15	3	264	<div><div></div></div>	79% 21%
15	33	264	<div><div></div></div>	78% 22%
16	0	140	<div><div></div></div>	71% 29%
16	00	140	<div><div></div></div>	71% 29%
17	5	199	<div><div></div></div>	20% 80%
17	55	199	<div><div></div></div>	20% 80%
18	C	473	<div><div></div></div>	95% 5%
18	CC	473	<div><div></div></div>	95% 5%
18	Cc	473	<div><div></div></div>	95% 5%
18	c	473	<div><div></div></div>	95% 5%
19	D	352	<div><div></div></div>	96% .
19	DD	352	<div><div></div></div>	96% .
19	Dd	352	<div><div></div></div>	97% .
19	d	352	<div><div></div></div>	97% .
20	E	83	<div><div></div></div>	96% .
20	EE	83	<div><div></div></div>	96% .
20	Ee	83	<div><div></div></div>	90% 10%
20	e	83	<div><div></div></div>	90% 10%
21	F	39	<div><div></div></div>	87% 13%
21	FF	39	<div><div></div></div>	87% 13%
21	Ff	39	<div><div></div></div>	79% 21%
21	f	39	<div><div></div></div>	79% 21%
22	H	73	<div><div></div></div>	81% 19%

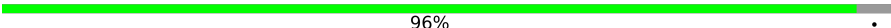
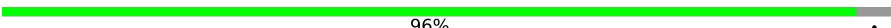
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Mol	Chain	Length	Quality of chain
22	HH	73	 81% 19%
22	Hh	73	 81% 19%
22	h	73	 81% 19%
23	I	36	 97% .
23	II	36	 97% .
23	Ii	36	 92% 8%
23	i	36	 92% 8%
24	J	40	 92% 8%
24	JJ	40	 92% 8%
24	Jj	40	 85% 15%
24	j	40	 85% 15%
25	K	59	 63% 37%
25	KK	59	 63% 37%
25	Kk	59	 63% 37%
25	k	59	 63% 37%
26	L	38	 92% 8%
26	LL	38	 92% 8%
26	Ll	38	 95% 5%
26	l	38	 95% 5%
27	M	34	 97% .
27	MM	34	 97% .
27	Mm	34	 94% 6%
27	m	34	 94% 6%
28	B	508	 98% .
28	BB	508	 98% .

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Mol	Chain	Length	Quality of chain
28	Bb	508	 96%
28	b	508	 96%

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
32	CLA	1	602	X	-	-	-
32	CLA	1	603	X	-	-	-
32	CLA	1	604	X	-	-	-
32	CLA	1	609	X	-	-	-
32	CLA	1	610	X	-	-	-
32	CLA	1	611	X	-	-	-
32	CLA	1	612	X	-	-	-
32	CLA	1	613	X	-	-	-
32	CLA	11	602	X	-	-	-
32	CLA	11	603	X	-	-	-
32	CLA	11	604	X	-	-	-
32	CLA	11	609	X	-	-	-
32	CLA	11	610	X	-	-	-
32	CLA	11	611	X	-	-	-
32	CLA	11	612	X	-	-	-
32	CLA	11	613	X	-	-	-
32	CLA	2	602	X	-	-	-
32	CLA	2	603	X	-	-	-
32	CLA	2	604	X	-	-	-
32	CLA	2	609	X	-	-	-
32	CLA	2	610	X	-	-	-
32	CLA	2	611	X	-	-	-
32	CLA	2	612	X	-	-	-
32	CLA	2	613	X	-	-	-
32	CLA	22	602	X	-	-	-
32	CLA	22	603	X	-	-	-
32	CLA	22	604	X	-	-	-
32	CLA	22	609	X	-	-	-
32	CLA	22	610	X	-	-	-
32	CLA	22	611	X	-	-	-
32	CLA	22	612	X	-	-	-
32	CLA	22	613	X	-	-	-
32	CLA	3	602	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
32	CLA	3	603	X	-	-	-
32	CLA	3	604	X	-	-	-
32	CLA	3	609	X	-	-	-
32	CLA	3	610	X	-	-	-
32	CLA	3	611	X	-	-	-
32	CLA	3	612	X	-	-	-
32	CLA	3	613	X	-	-	-
32	CLA	33	602	X	-	-	-
32	CLA	33	603	X	-	-	-
32	CLA	33	604	X	-	-	-
32	CLA	33	609	X	-	-	-
32	CLA	33	610	X	-	-	-
32	CLA	33	611	X	-	-	-
32	CLA	33	612	X	-	-	-
32	CLA	33	613	X	-	-	-
32	CLA	4	303	X	-	-	-
32	CLA	4	304	X	-	-	-
32	CLA	4	305	X	-	-	-
32	CLA	4	310	X	-	-	-
32	CLA	4	311	X	-	-	-
32	CLA	4	312	X	-	-	-
32	CLA	44	602	X	-	-	-
32	CLA	44	603	X	-	-	-
32	CLA	44	604	X	-	-	-
32	CLA	44	609	X	-	-	-
32	CLA	44	610	X	-	-	-
32	CLA	44	611	X	-	-	-
32	CLA	44	615	X	-	-	-
32	CLA	A	405	X	-	-	-
32	CLA	A	406	X	-	-	-
32	CLA	A	408	X	-	-	-
32	CLA	AA	405	X	-	-	-
32	CLA	AA	406	X	-	-	-
32	CLA	AA	408	X	-	-	-
32	CLA	Aa	405	X	-	-	-
32	CLA	Aa	406	X	-	-	-
32	CLA	Aa	407	X	-	-	-
32	CLA	Aa	410	X	-	-	-
32	CLA	B	604	X	-	-	-
32	CLA	B	606	X	-	-	-
32	CLA	B	607	X	-	-	-
32	CLA	B	608	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
32	CLA	B	609	X	-	-	-
32	CLA	B	610	X	-	-	-
32	CLA	B	611	X	-	-	-
32	CLA	B	618	X	-	-	-
32	CLA	B	619	X	-	-	-
32	CLA	B	620	X	-	-	-
32	CLA	B	621	X	-	-	-
32	CLA	B	622	X	-	-	-
32	CLA	B	623	X	-	-	-
32	CLA	B	624	X	-	-	-
32	CLA	BB	601	X	-	-	-
32	CLA	BB	602	X	-	-	-
32	CLA	BB	603	X	-	-	-
32	CLA	BB	604	X	-	-	-
32	CLA	BB	605	X	-	-	-
32	CLA	BB	606	X	-	-	-
32	CLA	BB	607	X	-	-	-
32	CLA	BB	608	X	-	-	-
32	CLA	BB	610	X	-	-	-
32	CLA	BB	611	X	-	-	-
32	CLA	BB	612	X	-	-	-
32	CLA	BB	613	X	-	-	-
32	CLA	BB	614	X	-	-	-
32	CLA	BB	615	X	-	-	-
32	CLA	Bb	601	X	-	-	-
32	CLA	Bb	602	X	-	-	-
32	CLA	Bb	603	X	-	-	-
32	CLA	Bb	604	X	-	-	-
32	CLA	Bb	605	X	-	-	-
32	CLA	Bb	606	X	-	-	-
32	CLA	Bb	607	X	-	-	-
32	CLA	Bb	608	X	-	-	-
32	CLA	Bb	609	X	-	-	-
32	CLA	Bb	610	X	-	-	-
32	CLA	Bb	611	X	-	-	-
32	CLA	Bb	612	X	-	-	-
32	CLA	Bb	613	X	-	-	-
32	CLA	Bb	614	X	-	-	-
32	CLA	Bb	615	X	-	-	-
32	CLA	Bb	616	X	-	-	-
32	CLA	C	503	X	-	-	-
32	CLA	C	505	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
32	CLA	C	506	X	-	-	-
32	CLA	C	507	X	-	-	-
32	CLA	C	508	X	-	-	-
32	CLA	C	509	X	-	-	-
32	CLA	C	510	X	-	-	-
32	CLA	C	511	X	-	-	-
32	CLA	C	512	X	-	-	-
32	CLA	C	513	X	-	-	-
32	CLA	C	514	X	-	-	-
32	CLA	C	515	X	-	-	-
32	CLA	CC	502	X	-	-	-
32	CLA	CC	504	X	-	-	-
32	CLA	CC	505	X	-	-	-
32	CLA	CC	506	X	-	-	-
32	CLA	CC	507	X	-	-	-
32	CLA	CC	508	X	-	-	-
32	CLA	CC	509	X	-	-	-
32	CLA	CC	510	X	-	-	-
32	CLA	CC	511	X	-	-	-
32	CLA	CC	512	X	-	-	-
32	CLA	CC	513	X	-	-	-
32	CLA	CC	514	X	-	-	-
32	CLA	Cc	503	X	-	-	-
32	CLA	Cc	505	X	-	-	-
32	CLA	Cc	506	X	-	-	-
32	CLA	Cc	507	X	-	-	-
32	CLA	Cc	508	X	-	-	-
32	CLA	Cc	509	X	-	-	-
32	CLA	Cc	510	X	-	-	-
32	CLA	Cc	511	X	-	-	-
32	CLA	Cc	512	X	-	-	-
32	CLA	Cc	513	X	-	-	-
32	CLA	Cc	514	X	-	-	-
32	CLA	Cc	515	X	-	-	-
32	CLA	D	401	X	-	-	-
32	CLA	D	404	X	-	-	-
32	CLA	D	405	X	-	-	-
32	CLA	DD	401	X	-	-	-
32	CLA	DD	403	X	-	-	-
32	CLA	DD	404	X	-	-	-
32	CLA	Dd	402	X	-	-	-
32	CLA	G	602	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
32	CLA	G	603	X	-	-	-
32	CLA	G	604	X	-	-	-
32	CLA	G	610	X	-	-	-
32	CLA	G	611	X	-	-	-
32	CLA	G	612	X	-	-	-
32	CLA	G	613	X	-	-	-
32	CLA	G	614	X	-	-	-
32	CLA	GG	602	X	-	-	-
32	CLA	GG	603	X	-	-	-
32	CLA	GG	604	X	-	-	-
32	CLA	GG	610	X	-	-	-
32	CLA	GG	611	X	-	-	-
32	CLA	GG	612	X	-	-	-
32	CLA	GG	613	X	-	-	-
32	CLA	GG	614	X	-	-	-
32	CLA	Gg	304	X	-	-	-
32	CLA	Gg	305	X	-	-	-
32	CLA	Gg	311	X	-	-	-
32	CLA	Gg	312	X	-	-	-
32	CLA	Gg	313	X	-	-	-
32	CLA	Gg	314	X	-	-	-
32	CLA	Gg	315	X	-	-	-
32	CLA	N	602	X	-	-	-
32	CLA	N	603	X	-	-	-
32	CLA	N	604	X	-	-	-
32	CLA	N	610	X	-	-	-
32	CLA	N	611	X	-	-	-
32	CLA	N	612	X	-	-	-
32	CLA	N	613	X	-	-	-
32	CLA	N	614	X	-	-	-
32	CLA	NN	602	X	-	-	-
32	CLA	NN	603	X	-	-	-
32	CLA	NN	604	X	-	-	-
32	CLA	NN	610	X	-	-	-
32	CLA	NN	611	X	-	-	-
32	CLA	NN	612	X	-	-	-
32	CLA	NN	613	X	-	-	-
32	CLA	NN	614	X	-	-	-
32	CLA	Nn	301	X	-	-	-
32	CLA	Nn	302	X	-	-	-
32	CLA	Nn	303	X	-	-	-
32	CLA	Nn	304	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
32	CLA	Nn	312	X	-	-	-
32	CLA	Nn	313	X	-	-	-
32	CLA	Nn	314	X	-	-	-
32	CLA	R	601	X	-	-	-
32	CLA	R	602	X	-	-	-
32	CLA	R	603	X	-	-	-
32	CLA	R	604	X	-	-	-
32	CLA	R	608	X	-	-	-
32	CLA	R	609	X	-	-	-
32	CLA	R	610	X	-	-	-
32	CLA	R	611	X	-	-	-
32	CLA	R	612	X	-	-	-
32	CLA	R	613	X	-	-	-
32	CLA	RR	302	X	-	-	-
32	CLA	RR	303	X	-	-	-
32	CLA	RR	304	X	-	-	-
32	CLA	RR	308	X	-	-	-
32	CLA	RR	309	X	-	-	-
32	CLA	RR	310	X	-	-	-
32	CLA	RR	311	X	-	-	-
32	CLA	RR	312	X	-	-	-
32	CLA	RR	313	X	-	-	-
32	CLA	Rr	601	X	-	-	-
32	CLA	Rr	602	X	-	-	-
32	CLA	Rr	603	X	-	-	-
32	CLA	Rr	604	X	-	-	-
32	CLA	Rr	608	X	-	-	-
32	CLA	Rr	609	X	-	-	-
32	CLA	Rr	610	X	-	-	-
32	CLA	Rr	611	X	-	-	-
32	CLA	Rr	612	X	-	-	-
32	CLA	Rr	613	X	-	-	-
32	CLA	S	602	X	-	-	-
32	CLA	S	603	X	-	-	-
32	CLA	S	604	X	-	-	-
32	CLA	S	608	X	-	-	-
32	CLA	S	609	X	-	-	-
32	CLA	S	610	X	-	-	-
32	CLA	S	611	X	-	-	-
32	CLA	S	612	X	-	-	-
32	CLA	S	613	X	-	-	-
32	CLA	SS	303	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
32	CLA	SS	304	X	-	-	-
32	CLA	SS	305	X	-	-	-
32	CLA	SS	309	X	-	-	-
32	CLA	SS	310	X	-	-	-
32	CLA	SS	311	X	-	-	-
32	CLA	SS	312	X	-	-	-
32	CLA	SS	313	X	-	-	-
32	CLA	SS	314	X	-	-	-
32	CLA	Ss	602	X	-	-	-
32	CLA	Ss	603	X	-	-	-
32	CLA	Ss	604	X	-	-	-
32	CLA	Ss	608	X	-	-	-
32	CLA	Ss	609	X	-	-	-
32	CLA	Ss	610	X	-	-	-
32	CLA	Ss	611	X	-	-	-
32	CLA	Ss	612	X	-	-	-
32	CLA	Ss	613	X	-	-	-
32	CLA	X	201	X	-	-	-
32	CLA	XX	201	X	-	-	-
32	CLA	Y	602	X	-	-	-
32	CLA	Y	603	X	-	-	-
32	CLA	Y	610	X	-	-	-
32	CLA	Y	611	X	-	-	-
32	CLA	Y	612	X	-	-	-
32	CLA	Y	613	X	-	-	-
32	CLA	Y	614	X	-	-	-
32	CLA	YY	602	X	-	-	-
32	CLA	YY	603	X	-	-	-
32	CLA	YY	610	X	-	-	-
32	CLA	YY	611	X	-	-	-
32	CLA	YY	612	X	-	-	-
32	CLA	YY	613	X	-	-	-
32	CLA	YY	614	X	-	-	-
32	CLA	Yy	602	X	-	-	-
32	CLA	Yy	603	X	-	-	-
32	CLA	Yy	604	X	-	-	-
32	CLA	Yy	610	X	-	-	-
32	CLA	Yy	611	X	-	-	-
32	CLA	Yy	612	X	-	-	-
32	CLA	Yy	613	X	-	-	-
32	CLA	Yy	614	X	-	-	-
32	CLA	a	405	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
32	CLA	a	406	X	-	-	-
32	CLA	a	407	X	-	-	-
32	CLA	a	410	X	-	-	-
32	CLA	b	601	X	-	-	-
32	CLA	b	602	X	-	-	-
32	CLA	b	603	X	-	-	-
32	CLA	b	604	X	-	-	-
32	CLA	b	605	X	-	-	-
32	CLA	b	606	X	-	-	-
32	CLA	b	607	X	-	-	-
32	CLA	b	608	X	-	-	-
32	CLA	b	609	X	-	-	-
32	CLA	b	610	X	-	-	-
32	CLA	b	611	X	-	-	-
32	CLA	b	612	X	-	-	-
32	CLA	b	613	X	-	-	-
32	CLA	b	614	X	-	-	-
32	CLA	b	615	X	-	-	-
32	CLA	b	616	X	-	-	-
32	CLA	c	501	X	-	-	-
32	CLA	c	502	X	-	-	-
32	CLA	c	503	X	-	-	-
32	CLA	c	504	X	-	-	-
32	CLA	c	505	X	-	-	-
32	CLA	c	506	X	-	-	-
32	CLA	c	507	X	-	-	-
32	CLA	c	508	X	-	-	-
32	CLA	c	509	X	-	-	-
32	CLA	c	510	X	-	-	-
32	CLA	c	511	X	-	-	-
32	CLA	c	512	X	-	-	-
32	CLA	c	513	X	-	-	-
32	CLA	d	402	X	-	-	-
32	CLA	g	603	X	-	-	-
32	CLA	g	604	X	-	-	-
32	CLA	g	610	X	-	-	-
32	CLA	g	611	X	-	-	-
32	CLA	g	612	X	-	-	-
32	CLA	g	613	X	-	-	-
32	CLA	g	614	X	-	-	-
32	CLA	n	602	X	-	-	-
32	CLA	n	603	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
32	CLA	n	604	X	-	-	-
32	CLA	n	610	X	-	-	-
32	CLA	n	611	X	-	-	-
32	CLA	n	612	X	-	-	-
32	CLA	n	613	X	-	-	-
32	CLA	n	614	X	-	-	-
32	CLA	r	601	X	-	-	-
32	CLA	r	602	X	-	-	-
32	CLA	r	603	X	-	-	-
32	CLA	r	604	X	-	-	-
32	CLA	r	608	X	-	-	-
32	CLA	r	609	X	-	-	-
32	CLA	r	610	X	-	-	-
32	CLA	r	611	X	-	-	-
32	CLA	r	612	X	-	-	-
32	CLA	r	613	X	-	-	-
32	CLA	s	602	X	-	-	-
32	CLA	s	603	X	-	-	-
32	CLA	s	604	X	-	-	-
32	CLA	s	608	X	-	-	-
32	CLA	s	609	X	-	-	-
32	CLA	s	610	X	-	-	-
32	CLA	s	611	X	-	-	-
32	CLA	s	612	X	-	-	-
32	CLA	s	613	X	-	-	-
32	CLA	y	304	X	-	-	-
32	CLA	y	305	X	-	-	-
32	CLA	y	306	X	-	-	-
32	CLA	y	312	X	-	-	-
32	CLA	y	313	X	-	-	-
32	CLA	y	314	X	-	-	-
32	CLA	y	315	X	-	-	-
32	CLA	y	316	X	-	-	-
35	PL9	A	410	-	X	-	-
35	PL9	AA	410	-	X	-	-
35	PL9	D	407	-	X	-	-
35	PL9	DD	406	-	X	-	-
35	PL9	Dd	404	-	X	-	-
35	PL9	d	404	-	X	-	-
39	CHL	1	601	X	-	-	-
39	CHL	1	605	X	-	-	-
39	CHL	1	606	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
39	CHL	1	607	X	-	-	-
39	CHL	1	608	X	-	-	-
39	CHL	11	601	X	-	-	-
39	CHL	11	605	X	-	-	-
39	CHL	11	606	X	-	-	-
39	CHL	11	607	X	-	-	-
39	CHL	11	608	X	-	-	-
39	CHL	2	601	X	-	-	-
39	CHL	2	605	X	-	-	-
39	CHL	2	606	X	-	-	-
39	CHL	2	607	X	-	-	-
39	CHL	2	608	X	-	-	-
39	CHL	22	601	X	-	-	-
39	CHL	22	605	X	-	-	-
39	CHL	22	606	X	-	-	-
39	CHL	22	607	X	-	-	-
39	CHL	22	608	X	-	-	-
39	CHL	3	601	X	-	-	-
39	CHL	3	605	X	-	-	-
39	CHL	3	606	X	-	-	-
39	CHL	3	607	X	-	-	-
39	CHL	3	608	X	-	-	-
39	CHL	33	601	X	-	-	-
39	CHL	33	605	X	-	-	-
39	CHL	33	606	X	-	-	-
39	CHL	33	607	X	-	-	-
39	CHL	33	608	X	-	-	-
39	CHL	4	302	X	-	-	-
39	CHL	4	306	X	-	-	-
39	CHL	4	307	X	-	-	-
39	CHL	4	308	X	-	-	-
39	CHL	4	309	X	-	-	-
39	CHL	44	601	X	-	-	-
39	CHL	44	605	X	-	-	-
39	CHL	44	606	X	-	-	-
39	CHL	44	607	X	-	-	-
39	CHL	44	608	X	-	-	-
39	CHL	G	601	X	-	-	-
39	CHL	G	605	X	-	-	-
39	CHL	G	606	X	-	-	-
39	CHL	G	607	X	-	-	-
39	CHL	G	608	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
39	CHL	G	609	X	-	-	-
39	CHL	GG	601	X	-	-	-
39	CHL	GG	605	X	-	-	-
39	CHL	GG	606	X	-	-	-
39	CHL	GG	607	X	-	-	-
39	CHL	GG	608	X	-	-	-
39	CHL	GG	609	X	-	-	-
39	CHL	Gg	302	X	-	-	-
39	CHL	Gg	306	X	-	-	-
39	CHL	Gg	307	X	-	-	-
39	CHL	Gg	308	X	-	-	-
39	CHL	Gg	309	X	-	-	-
39	CHL	Gg	310	X	-	-	-
39	CHL	N	601	X	-	-	-
39	CHL	N	605	X	-	-	-
39	CHL	N	606	X	-	-	-
39	CHL	N	607	X	-	-	-
39	CHL	N	608	X	-	-	-
39	CHL	N	609	X	-	-	-
39	CHL	NN	601	X	-	-	-
39	CHL	NN	605	X	-	-	-
39	CHL	NN	606	X	-	-	-
39	CHL	NN	607	X	-	-	-
39	CHL	NN	608	X	-	-	-
39	CHL	NN	609	X	-	-	-
39	CHL	Nn	311	X	-	-	-
39	CHL	Nn	315	X	-	-	-
39	CHL	Nn	316	X	-	-	-
39	CHL	Nn	317	X	-	-	-
39	CHL	Nn	318	X	-	-	-
39	CHL	Nn	319	X	-	-	-
39	CHL	R	605	X	-	-	-
39	CHL	R	606	X	-	-	-
39	CHL	R	607	X	-	-	-
39	CHL	RR	305	X	-	-	-
39	CHL	RR	306	X	-	-	-
39	CHL	RR	307	X	-	-	-
39	CHL	Rr	605	X	-	-	-
39	CHL	Rr	606	X	-	-	-
39	CHL	Rr	607	X	-	-	-
39	CHL	S	601	X	-	-	-
39	CHL	S	605	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
39	CHL	S	606	X	-	-	-
39	CHL	S	607	X	-	-	-
39	CHL	SS	302	X	-	-	-
39	CHL	SS	306	X	-	-	-
39	CHL	SS	307	X	-	-	-
39	CHL	SS	308	X	-	-	-
39	CHL	Ss	601	X	-	-	-
39	CHL	Ss	605	X	-	-	-
39	CHL	Ss	606	X	-	-	-
39	CHL	Ss	607	X	-	-	-
39	CHL	Y	601	X	-	-	-
39	CHL	Y	605	X	-	-	-
39	CHL	Y	606	X	-	-	-
39	CHL	Y	607	X	-	-	-
39	CHL	Y	608	X	-	-	-
39	CHL	Y	609	X	-	-	-
39	CHL	YY	601	X	-	-	-
39	CHL	YY	605	X	-	-	-
39	CHL	YY	606	X	-	-	-
39	CHL	YY	607	X	-	-	-
39	CHL	YY	608	X	-	-	-
39	CHL	YY	609	X	-	-	-
39	CHL	Yy	601	X	-	-	-
39	CHL	Yy	605	X	-	-	-
39	CHL	Yy	606	X	-	-	-
39	CHL	Yy	607	X	-	-	-
39	CHL	Yy	608	X	-	-	-
39	CHL	Yy	609	X	-	-	-
39	CHL	g	601	X	-	-	-
39	CHL	g	605	X	-	-	-
39	CHL	g	606	X	-	-	-
39	CHL	g	607	X	-	-	-
39	CHL	g	608	X	-	-	-
39	CHL	g	609	X	-	-	-
39	CHL	n	601	X	-	-	-
39	CHL	n	605	X	-	-	-
39	CHL	n	606	X	-	-	-
39	CHL	n	607	X	-	-	-
39	CHL	n	608	X	-	-	-
39	CHL	n	609	X	-	-	-
39	CHL	r	605	X	-	-	-
39	CHL	r	606	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
39	CHL	r	607	X	-	-	-
39	CHL	s	601	X	-	-	-
39	CHL	s	605	X	-	-	-
39	CHL	s	606	X	-	-	-
39	CHL	s	607	X	-	-	-
39	CHL	y	303	X	-	-	-
39	CHL	y	307	X	-	-	-
39	CHL	y	308	X	-	-	-
39	CHL	y	309	X	-	-	-
39	CHL	y	310	X	-	-	-
39	CHL	y	311	X	-	-	-

2 Entry composition

There are 46 unique types of molecules in this entry. The entry contains 339330 atoms, of which 168031 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 Photosystem II protein D1.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	335	Total	C	H	N	O	S	0	0
			5145	1710	2526	431	465	13		
1	a	334	Total	C	H	N	O	S	0	0
			5134	1707	2521	430	463	13		
1	AA	335	Total	C	H	N	O	S	0	0
			5146	1710	2527	431	465	13		
1	Aa	334	Total	C	H	N	O	S	0	0
			5134	1707	2521	430	463	13		

- Molecule 2 is a protein called Oxygen-evolving enhancer protein 1, chloroplastic.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	Oo	234	Total	C	H	N	O	S	0	0
			3524	1125	1748	289	359	3		
2	O	236	Total	C	H	N	O	S	0	0
			3559	1136	1765	292	363	3		
2	o	234	Total	C	H	N	O	S	0	0
			3524	1125	1748	289	359	3		
2	OO	236	Total	C	H	N	O	S	0	0
			3561	1136	1767	292	363	3		

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

Mol	Chain	Residues	Atoms						AltConf	Trace
3	Rr	228	Total	C	H	N	O	S	0	0
			3541	1155	1763	289	330	4		
3	R	227	Total	C	H	N	O	S	0	0
			3526	1150	1753	290	329	4		
3	r	228	Total	C	H	N	O	S	0	0
			3541	1155	1763	289	330	4		
3	RR	227	Total	C	H	N	O	S	0	0
			3526	1150	1753	290	329	4		

- Molecule 4 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms						AltConf	Trace
4	Ss	213	Total	C	H	N	O	S	0	0
			3266	1078	1617	268	298	5		
4	S	222	Total	C	H	N	O	S	0	0
			3395	1117	1683	280	310	5		
4	s	213	Total	C	H	N	O	S	0	0
			3266	1078	1617	268	298	5		
4	SS	222	Total	C	H	N	O	S	0	0
			3395	1117	1683	280	310	5		

- Molecule 5 is a protein called Photosystem II reaction center protein T.

Mol	Chain	Residues	Atoms						AltConf	Trace
5	Tt	30	Total	C	H	N	O	S	0	0
			505	171	260	34	39	1		
5	T	30	Total	C	H	N	O	S	0	0
			505	171	260	34	39	1		
5	t	30	Total	C	H	N	O	S	0	0
			505	171	260	34	39	1		
5	TT	30	Total	C	H	N	O	S	0	0
			505	171	260	34	39	1		

- Molecule 6 is a protein called Photosystem II 5 kDa protein, chloroplastic.

Mol	Chain	Residues	Atoms						AltConf	Trace
6	Uu	26	Total	C	H	N	O	S	0	0
			420	129	218	37	33	3		
6	U	27	Total	C	H	N	O	S	0	0
			435	134	226	38	34	3		
6	u	26	Total	C	H	N	O	S	0	0
			420	129	218	37	33	3		
6	UU	27	Total	C	H	N	O	S	0	0
			435	134	226	38	34	3		

- Molecule 7 is a protein called Photosystem II reaction center W protein, chloroplastic.

Mol	Chain	Residues	Atoms						AltConf	Trace
7	Ww	54	Total	C	H	N	O	S	0	0
			820	276	401	61	81	1		
7	W	54	Total	C	H	N	O	S	0	0
			820	276	401	61	81	1		
7	w	54	Total	C	H	N	O	S	0	0
			820	276	401	61	81	1		

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Mol	Chain	Residues	Atoms						AltConf	Trace
7	WW	54	Total	C	H	N	O	S	0	0
			820	276	401	61	81	1		

- Molecule 8 is a protein called Photosystem II reaction center X protein, chloroplastic.

Mol	Chain	Residues	Atoms						AltConf	Trace
8	Xx	34	Total	C	H	N	O		0	0
			487	158	250	37	42			
8	X	46	Total	C	H	N	O		0	0
			667	213	341	53	60			
8	x	34	Total	C	H	N	O		0	0
			487	158	250	37	42			
8	XX	48	Total	C	H	N	O	S	0	0
			701	223	359	55	62	2		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Xx	45	GLY	SER	conflict	UNP A0A9R0JQ89
X	45	GLY	SER	conflict	UNP A0A9R0JQ89
x	45	GLY	SER	conflict	UNP A0A9R0JQ89
XX	45	GLY	SER	conflict	UNP A0A9R0JQ89

- Molecule 9 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms						AltConf	Trace
9	Yy	218	Total	C	H	N	O	S	0	0
			3252	1079	1592	270	304	7		
9	G	215	Total	C	H	N	O	S	0	0
			3207	1065	1571	264	300	7		
9	N	217	Total	C	H	N	O	S	0	0
			3245	1077	1589	269	303	7		
9	Y	218	Total	C	H	N	O	S	0	0
			3252	1079	1592	270	304	7		
9	g	215	Total	C	H	N	O	S	0	0
			3207	1065	1571	264	300	7		
9	n	218	Total	C	H	N	O	S	0	0
			3252	1079	1592	270	304	7		
9	y	218	Total	C	H	N	O	S	0	0
			3252	1079	1592	270	304	7		
9	GG	215	Total	C	H	N	O	S	0	0
			3207	1065	1571	264	300	7		

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Mol	Chain	Residues	Atoms						AltConf	Trace
9	NN	218	Total	C	H	N	O	S	0	0
			3252	1079	1592	270	304	7		
9	YY	218	Total	C	H	N	O	S	0	0
			3252	1079	1592	270	304	7		
9	Gg	215	Total	C	H	N	O	S	0	0
			3207	1065	1571	264	300	7		
9	Nn	218	Total	C	H	N	O	S	0	0
			3252	1079	1592	270	304	7		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
10	Zz	61	Total	C	H	N	O	0	0
			933	306	479	68	80		
10	Z	61	Total	C	H	N	O	0	0
			933	306	479	68	80		
10	z	61	Total	C	H	N	O	0	0
			933	306	479	68	80		
10	ZZ	61	Total	C	H	N	O	0	0
			933	306	479	68	80		

- Molecule 11 is a protein called Chlorophyll a-b binding protein CP24, chloroplastic.

Mol	Chain	Residues	Atoms						AltConf	Trace
11	44	186	Total	C	H	N	O	S	0	0
			2847	952	1395	234	262	4		
11	4	186	Total	C	H	N	O	S	0	0
			2847	952	1395	234	262	4		

- Molecule 12 is a protein called Oxygen-evolving enhancer protein 2, chloroplastic.

Mol	Chain	Residues	Atoms						AltConf	Trace
12	Pp	187	Total	C	H	N	O	S	0	0
			2827	912	1394	234	285	2		
12	p	187	Total	C	H	N	O	S	0	0
			2827	912	1394	234	285	2		
12	P	187	Total	C	H	N	O	S	0	0
			2827	912	1394	234	285	2		
12	PP	187	Total	C	H	N	O	S	0	0
			2827	912	1394	234	285	2		

- Molecule 13 is a protein called Oxygen-evolving enhancer protein 3, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	Qq	147	Total	C	H	N	O	0	0
			2334	731	1181	201	221		
13	q	147	Total	C	H	N	O	0	0
			2334	731	1181	201	221		
13	Q	147	Total	C	H	N	O	0	0
			2334	731	1181	201	221		
13	QQ	147	Total	C	H	N	O	0	0
			2334	731	1181	201	221		

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

Mol	Chain	Residues	Atoms						AltConf	Trace
14	11	206	Total	C	H	N	O	S	0	0
			3075	1021	1505	254	288	7		
14	22	218	Total	C	H	N	O	S	0	0
			3253	1079	1592	270	305	7		
14	1	207	Total	C	H	N	O	S	0	0
			3086	1024	1510	255	290	7		
14	2	218	Total	C	H	N	O	S	0	0
			3253	1079	1592	270	305	7		

- Molecule 15 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms						AltConf	Trace
15	33	207	Total	C	H	N	O	S	0	0
			3189	1061	1575	258	290	5		
15	3	209	Total	C	H	N	O	S	0	0
			3195	1063	1573	260	294	5		

- Molecule 16 is a protein called Photosystem II 10 kDa polypeptide, chloroplastic.

Mol	Chain	Residues	Atoms						AltConf	Trace
16	0	99	Total	C	H	N	O	S	0	0
			1448	462	726	120	139	1		
16	00	99	Total	C	H	N	O	S	0	0
			1448	462	726	120	139	1		

- Molecule 17 is a protein called Photosystem II reaction center proteins PsbY, chloroplastic.

Mol	Chain	Residues	Atoms						AltConf	Trace
17	5	40	Total	C	H	N	O	S	0	0
			633	199	325	55	53	1		

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Mol	Chain	Residues	Atoms						AltConf	Trace
17	55	40	Total	C	H	N	O	S	0	0
			633	199	325	55	53	1		

- Molecule 18 is a protein called Photosystem II CP43 reaction center protein.

Mol	Chain	Residues	Atoms						AltConf	Trace
18	C	449	Total	C	H	N	O	S	0	0
			6892	2284	3417	581	599	11		
18	c	449	Total	C	H	N	O	S	0	0
			6891	2284	3416	581	599	11		
18	CC	449	Total	C	H	N	O	S	0	0
			6892	2284	3417	581	599	11		
18	Cc	449	Total	C	H	N	O	S	0	0
			6891	2284	3416	581	599	11		

- Molecule 19 is a protein called Photosystem II D2 protein.

Mol	Chain	Residues	Atoms						AltConf	Trace
19	D	339	Total	C	H	N	O	S	0	0
			5274	1780	2580	441	461	12		
19	d	340	Total	C	H	N	O	S	0	0
			5295	1786	2592	443	462	12		
19	DD	339	Total	C	H	N	O	S	0	0
			5275	1780	2581	441	461	12		
19	Dd	340	Total	C	H	N	O	S	0	0
			5295	1786	2592	443	462	12		

- Molecule 20 is a protein called Cytochrome b559 subunit alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	E	80	Total	C	H	N	O	0	0
			1255	414	615	105	121		
20	e	75	Total	C	H	N	O	0	0
			1201	398	591	100	112		
20	EE	80	Total	C	H	N	O	0	0
			1255	414	615	105	121		
20	Ee	75	Total	C	H	N	O	0	0
			1201	398	591	100	112		

- Molecule 21 is a protein called Cytochrome b559 subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	F	34	Total	C	H	N	O	S	
			558	187	282	45	43	1	0
21	f	31	Total	C	H	N	O	S	
			509	169	259	42	38	1	0
21	FF	34	Total	C	H	N	O	S	
			558	187	282	45	43	1	0
21	Ff	31	Total	C	H	N	O	S	
			509	169	259	42	38	1	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
22	H	59	Total	C	H	N	O	S	
			893	288	459	65	78	3	0
22	h	59	Total	C	H	N	O	S	
			893	288	459	65	78	3	0
22	HH	59	Total	C	H	N	O	S	
			893	288	459	65	78	3	0
22	Hh	59	Total	C	H	N	O	S	
			893	288	459	65	78	3	0

- Molecule 23 is a protein called Photosystem II reaction center protein I.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	I	35	Total	C	H	N	O	S	
			581	195	295	44	46	1	0
23	i	33	Total	C	H	N	O	S	
			542	184	276	39	42	1	0
23	II	35	Total	C	H	N	O	S	
			581	195	295	44	46	1	0
23	Ii	33	Total	C	H	N	O	S	
			542	184	276	39	42	1	0

- Molecule 24 is a protein called Photosystem II reaction center protein J.

Mol	Chain	Residues	Atoms				AltConf	Trace
24	J	37	Total	C	H	N	O	
			552	182	283	41	46	0
24	j	34	Total	C	H	N	O	
			505	168	258	38	41	0
24	JJ	37	Total	C	H	N	O	
			552	182	283	41	46	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
24	Jj	34	Total	C	H	N	O	0	0
			505	168	258	38	41		

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

Mol	Chain	Residues	Atoms						AltConf	Trace
25	K	37	Total 617	C 217	H 310	N 43	O 46	S 1	0	0
25	k	37	Total 617	C 217	H 310	N 43	O 46	S 1	0	0
25	KK	37	Total 617	C 217	H 310	N 43	O 46	S 1	0	0
25	Kk	37	Total 616	C 217	H 310	N 43	O 45	S 1	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
26	L	35	Total 579	C 196	H 284	N 46	O 53	0	0
26	l	36	Total 596	C 201	H 292	N 48	O 55	0	0
26	LL	35	Total 579	C 196	H 284	N 46	O 53	0	0
26	Ll	36	Total 596	C 201	H 292	N 48	O 55	0	0

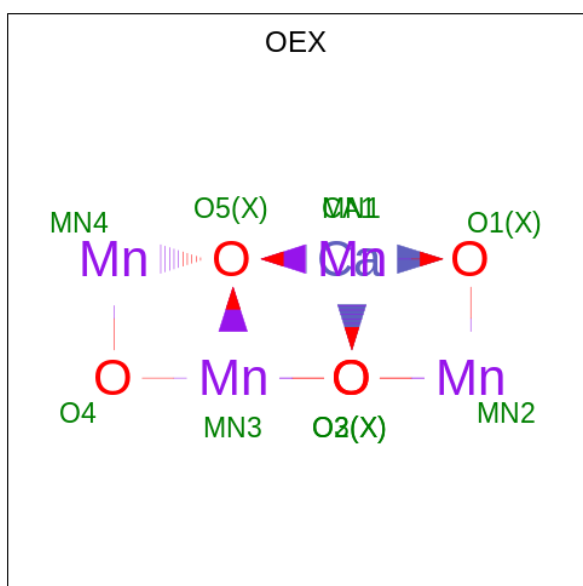
- Molecule 27 is a protein called Photosystem II reaction center protein M.

Mol	Chain	Residues	Atoms					AltConf	Trace	
27	M	33	Total 543	C 177	H 285	N 37	O 43	S 1	0	0
27	m	32	Total 523	C 172	H 273	N 36	O 42		0	0
27	MM	33	Total 543	C 177	H 285	N 37	O 43	S 1	0	0
27	Mm	32	Total 523	C 172	H 273	N 36	O 42		0	0

- Molecule 28 is a protein called Photosystem II CP47 reaction center protein.

Mol	Chain	Residues	Atoms						AltConf	Trace
28	b	487	Total	C	H	N	O	S	0	0
			7510	2501	3690	640	667	12		
28	BB	499	Total	C	H	N	O	S	0	0
			7692	2562	3778	655	685	12		
28	B	499	Total	C	H	N	O	S	0	0
			7692	2562	3778	655	685	12		
28	Bb	487	Total	C	H	N	O	S	0	0
			7510	2501	3690	640	667	12		

- Molecule 29 is CA-MN4-O5 CLUSTER (three-letter code: OEX) (formula: CaMn_4O_5).



Mol	Chain	Residues	Atoms				AltConf
29	A	1	Total	Ca	Mn	O	0
			10	1	4	5	
29	a	1	Total	Ca	Mn	O	0
			10	1	4	5	
29	AA	1	Total	Ca	Mn	O	0
			10	1	4	5	
29	Cc	1	Total	Ca	Mn	O	0
			10	1	4	5	

- Molecule 30 is FE (II) ION (three-letter code: FE2) (formula: Fe).

Mol	Chain	Residues	Atoms		AltConf
30	A	1	Total	Fe	0
			1	1	
30	a	1	Total	Fe	0
			1	1	

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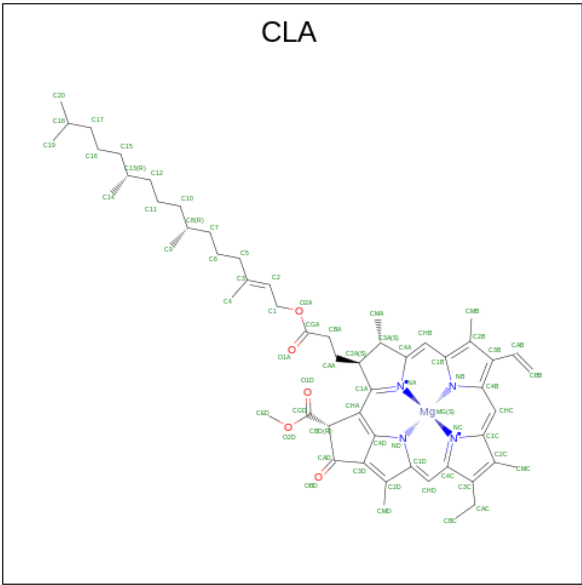
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Mol	Chain	Residues	Atoms		AltConf
30	AA	1	Total	Fe	0
			1	1	
30	Aa	1	Total	Fe	0
			1	1	

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

Mol	Chain	Residues	Atoms		AltConf
31	A	2	Total	Cl	0
			2	2	
31	a	2	Total	Cl	0
			2	2	
31	AA	2	Total	Cl	0
			2	2	
31	Aa	2	Total	Cl	0
			2	2	

- Molecule 32 is CHLOROPHYLL A (three-letter code: CLA) (formula: C₅₅H₇₂MgN₄O₅).



Mol	Chain	Residues	Atoms						AltConf
32	A	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	A	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	A	1	Total	C	H	Mg	N	O	0
			119	50	59	1	4	5	

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Mol	Chain	Residues	Atoms						AltConf
32	Rr	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Rr	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Rr	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Rr	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Rr	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Rr	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Rr	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Rr	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Rr	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Ss	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Ss	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Ss	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Ss	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Ss	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Ss	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Ss	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Ss	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Yy	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Yy	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	

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Mol	Chain	Residues	Atoms						AltConf
32	Yy	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Yy	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Yy	1	Total	C	H	Mg	N	O	0
			73	34	31	1	4	3	
32	Yy	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Yy	1	Total	C	H	Mg	N	O	0
			114	49	55	1	4	5	
32	Yy	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	44	1	Total	C	H	Mg	N	O	0
			78	35	33	1	4	5	
32	44	1	Total	C	H	Mg	N	O	0
			78	35	33	1	4	5	
32	44	1	Total	C	H	Mg	N	O	0
			78	35	33	1	4	5	
32	44	1	Total	C	H	Mg	N	O	0
			78	35	33	1	4	5	
32	44	1	Total	C	H	Mg	N	O	0
			78	35	33	1	4	5	
32	44	1	Total	C	H	Mg	N	O	0
			78	35	33	1	4	5	
32	44	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	11	1	Total	C	H	Mg	N	O	0
			68	32	28	1	4	3	
32	11	1	Total	C	H	Mg	N	O	0
			68	32	28	1	4	3	
32	11	1	Total	C	H	Mg	N	O	0
			68	32	28	1	4	3	
32	11	1	Total	C	H	Mg	N	O	0
			68	32	28	1	4	3	
32	11	1	Total	C	H	Mg	N	O	0
			68	32	28	1	4	3	
32	11	1	Total	C	H	Mg	N	O	0
			68	32	28	1	4	3	
32	11	1	Total	C	H	Mg	N	O	0
			68	32	28	1	4	3	
32	11	1	Total	C	H	Mg	N	O	0
			68	32	28	1	4	3	

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Mol	Chain	Residues	Atoms						AltConf
32	22	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	22	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	22	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	22	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	22	1	Total 73	C 34	H 31	Mg 1	N 4	O 3	0
32	22	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	22	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	22	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	33	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	33	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	33	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	33	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	33	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	33	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	33	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	33	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	1	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	1	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	1	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	1	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	1	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0

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Mol	Chain	Residues	Atoms						AltConf
32	1	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	1	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	1	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	2	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	2	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	2	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	2	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	2	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	2	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	2	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	2	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	2	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	3	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	3	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	3	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	3	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	3	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	3	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	3	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	3	1	Total 68	C 32	H 28	Mg 1	N 4	O 3	0
32	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	C	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms						AltConf
32	C	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	C	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	C	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	C	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	C	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	C	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	C	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	C	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	C	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	D	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	D	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	D	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	G	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	G	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	G	1	Total	C	H	Mg	N	O	0
			73	34	31	1	4	3	
32	G	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	G	1	Total	C	H	Mg	N	O	0
			95	42	43	1	4	5	
32	G	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	G	1	Total	C	H	Mg	N	O	0
			68	32	28	1	4	3	

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Mol	Chain	Residues	Atoms						AltConf
32	G	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	N	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	N	1	Total	C	H	Mg	N	O	0
			73	34	31	1	4	3	
32	N	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	N	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	N	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	N	1	Total	C	H	Mg	N	O	0
			73	34	31	1	4	3	
32	N	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	N	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	R	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	R	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	R	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	R	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	R	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	R	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	R	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	R	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	R	1	Total	C	H	Mg	N	O	0
			73	34	31	1	4	3	
32	R	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	R	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	S	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	

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Mol	Chain	Residues	Atoms						AltConf
32	S	1	Total	C	H	Mg	N	O	0
			78	35	33	1	4	5	
32	S	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	S	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	S	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	S	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	S	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	S	1	Total	C	H	Mg	N	O	0
			78	35	33	1	4	5	
32	X	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	Y	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Y	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Y	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Y	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Y	1	Total	C	H	Mg	N	O	0
			73	34	31	1	4	3	
32	Y	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Y	1	Total	C	H	Mg	N	O	0
			114	49	55	1	4	5	
32	Y	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	a	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	a	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	a	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	a	1	Total	C	H	Mg	N	O	0
			119	50	59	1	4	5	

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Mol	Chain	Residues	Atoms						AltConf
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	b	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	c	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	c	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	c	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	c	1	Total 104	C 45	H 49	Mg 1	N 4	O 5	0
32	c	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms						AltConf
32	c	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	c	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	c	1	Total	C	H	Mg	N	O	0
			119	50	59	1	4	5	
32	c	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	c	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	c	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	c	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	c	1	Total	C	H	Mg	N	O	0
			76	35	33	1	4	3	
32	d	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	d	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	g	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	g	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	g	1	Total	C	H	Mg	N	O	0
			73	34	31	1	4	3	
32	g	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	g	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	g	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	g	1	Total	C	H	Mg	N	O	0
			68	32	28	1	4	3	
32	g	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	n	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	n	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	n	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	

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Mol	Chain	Residues	Atoms						AltConf
32	n	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	n	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	n	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	n	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	n	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	r	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	r	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	r	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	r	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	r	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	r	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	r	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	r	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	r	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	r	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	r	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	s	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	s	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	s	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	s	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	s	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	s	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms						AltConf
32	s	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	s	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	s	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	y	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	y	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	y	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	y	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	y	1	Total 73	C 34	H 31	Mg 1	N 4	O 3	0
32	y	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	y	1	Total 114	C 49	H 55	Mg 1	N 4	O 5	0
32	y	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	4	1	Total 78	C 35	H 33	Mg 1	N 4	O 5	0
32	4	1	Total 78	C 35	H 33	Mg 1	N 4	O 5	0
32	4	1	Total 78	C 35	H 33	Mg 1	N 4	O 5	0
32	4	1	Total 78	C 35	H 33	Mg 1	N 4	O 5	0
32	4	1	Total 78	C 35	H 33	Mg 1	N 4	O 5	0
32	4	1	Total 78	C 35	H 33	Mg 1	N 4	O 5	0
32	AA	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	AA	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	AA	1	Total 119	C 50	H 59	Mg 1	N 4	O 5	0
32	BB	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0



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Mol	Chain	Residues	Atoms						AltConf
32	BB	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	BB	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	BB	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	BB	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	BB	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	BB	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	BB	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	BB	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	BB	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	BB	1	Total	C	H	Mg	N	O	0
			119	50	59	1	4	5	
32	BB	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	BB	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	CC	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	CC	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	CC	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	CC	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	CC	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	CC	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	CC	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	

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Mol	Chain	Residues	Atoms						AltConf
32	CC	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	CC	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	CC	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	CC	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	CC	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	CC	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	DD	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	DD	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	DD	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	B	1	Total 119	C 50	H 59	Mg 1	N 4	O 5	0
32	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	B	1	Total 70	C 33	H 29	Mg 1	N 4	O 3	0
32	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	B	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms						AltConf
32	B	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	B	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	B	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	GG	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	GG	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	GG	1	Total	C	H	Mg	N	O	0
			73	34	31	1	4	3	
32	GG	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	GG	1	Total	C	H	Mg	N	O	0
			95	42	43	1	4	5	
32	GG	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	GG	1	Total	C	H	Mg	N	O	0
			68	32	28	1	4	3	
32	GG	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	NN	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	NN	1	Total	C	H	Mg	N	O	0
			73	34	31	1	4	3	
32	NN	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	NN	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	NN	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	NN	1	Total	C	H	Mg	N	O	0
			73	34	31	1	4	3	
32	NN	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	NN	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	RR	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	RR	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	

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Mol	Chain	Residues	Atoms						AltConf
32	RR	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	RR	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	RR	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	RR	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	RR	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	RR	1	Total	C	H	Mg	N	O	0
			73	34	31	1	4	3	
32	RR	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	RR	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	SS	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	SS	1	Total	C	H	Mg	N	O	0
			78	35	33	1	4	5	
32	SS	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	SS	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	SS	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	SS	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	SS	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	SS	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	XX	1	Total	C	H	Mg	N	O	0
			70	33	29	1	4	3	
32	YY	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	YY	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	YY	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	

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Mol	Chain	Residues	Atoms						AltConf
32	YY	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	YY	1	Total 73	C 34	H 31	Mg 1	N 4	O 3	0
32	YY	1	Total 113	C 48	H 55	Mg 1	N 4	O 5	0
32	YY	1	Total 114	C 49	H 55	Mg 1	N 4	O 5	0
32	YY	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	Aa	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Aa	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Aa	1	Total 88	C 39	H 39	Mg 1	N 4	O 5	0
32	Aa	1	Total 119	C 50	H 59	Mg 1	N 4	O 5	0
32	Bb	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Bb	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Bb	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Bb	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Bb	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Bb	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Bb	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Bb	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Bb	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Bb	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Bb	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0
32	Bb	1	Total 137	C 55	H 72	Mg 1	N 4	O 5	0

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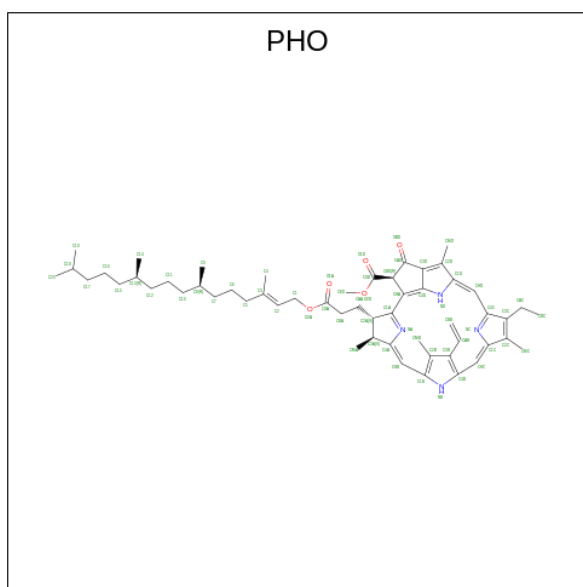
Mol	Chain	Residues	Atoms						AltConf
32	Bb	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Bb	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Bb	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Bb	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			104	45	49	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			119	50	59	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Cc	1	Total	C	H	Mg	N	O	0
			76	35	33	1	4	3	
32	Dd	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Dd	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Gg	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Gg	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	

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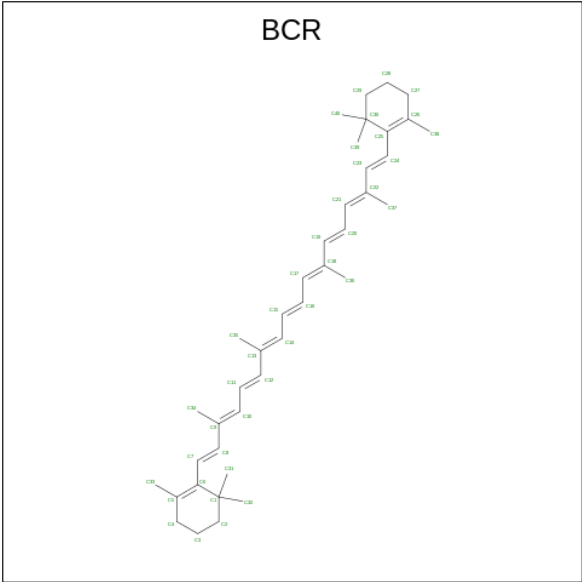
Mol	Chain	Residues	Atoms						AltConf
32	Gg	1	Total	C	H	Mg	N	O	0
			73	34	31	1	4	3	
32	Gg	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Gg	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Gg	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Gg	1	Total	C	H	Mg	N	O	0
			68	32	28	1	4	3	
32	Gg	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Nn	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Nn	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Nn	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Nn	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Nn	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Nn	1	Total	C	H	Mg	N	O	0
			137	55	72	1	4	5	
32	Nn	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	
32	Nn	1	Total	C	H	Mg	N	O	0
			88	39	39	1	4	5	

- Molecule 33 is PHEOPHYTIN A (three-letter code: PHO) (formula: C₅₅H₇₄N₄O₅).



Mol	Chain	Residues	Atoms					AltConf
33	A	1	Total	C	H	N	O	0
			138	55	74	4	5	
33	D	1	Total	C	H	N	O	0
			138	55	74	4	5	
33	a	1	Total	C	H	N	O	0
			138	55	74	4	5	
33	a	1	Total	C	H	N	O	0
			138	55	74	4	5	
33	AA	1	Total	C	H	N	O	0
			138	55	74	4	5	
33	DD	1	Total	C	H	N	O	0
			138	55	74	4	5	
33	Aa	1	Total	C	H	N	O	0
			138	55	74	4	5	
33	Aa	1	Total	C	H	N	O	0
			138	55	74	4	5	

- Molecule 34 is BETA-CAROTENE (three-letter code: BCR) (formula: C₄₀H₅₆).



Mol	Chain	Residues	Atoms			AltConf
34	A	1	Total	C	H	0
			96	40	56	
34	C	1	Total	C	H	0
			96	40	56	
34	C	1	Total	C	H	0
			96	40	56	
34	C	1	Total	C	H	0
			96	40	56	
34	D	1	Total	C	H	0
			96	40	56	
34	H	1	Total	C	H	0
			96	40	56	
34	K	1	Total	C	H	0
			96	40	56	
34	T	1	Total	C	H	0
			96	40	56	
34	a	1	Total	C	H	0
			96	40	56	
34	b	1	Total	C	H	0
			96	40	56	
34	b	1	Total	C	H	0
			96	40	56	
34	b	1	Total	C	H	0
			96	40	56	
34	c	1	Total	C	H	0
			96	40	56	
34	c	1	Total	C	H	0
			96	40	56	

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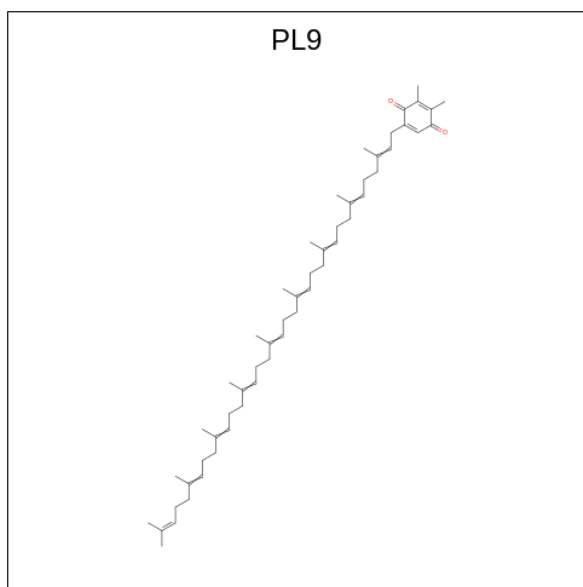
Mol	Chain	Residues	Atoms			AltConf
34	c	1	Total 96	C 40	H 56	0
34	d	1	Total 96	C 40	H 56	0
34	h	1	Total 96	C 40	H 56	0
34	k	1	Total 96	C 40	H 56	0
34	AA	1	Total 96	C 40	H 56	0
34	BB	1	Total 96	C 40	H 56	0
34	BB	1	Total 96	C 40	H 56	0
34	BB	1	Total 96	C 40	H 56	0
34	BB	1	Total 96	C 40	H 56	0
34	CC	1	Total 96	C 40	H 56	0
34	CC	1	Total 96	C 40	H 56	0
34	CC	1	Total 96	C 40	H 56	0
34	DD	1	Total 96	C 40	H 56	0
34	B	1	Total 96	C 40	H 56	0
34	B	1	Total 96	C 40	H 56	0
34	B	1	Total 96	C 40	H 56	0
34	B	1	Total 96	C 40	H 56	0
34	KK	1	Total 96	C 40	H 56	0
34	TT	1	Total 96	C 40	H 56	0
34	XX	1	Total 96	C 40	H 56	0
34	Aa	1	Total 96	C 40	H 56	0

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Mol	Chain	Residues	Atoms			AltConf
34	Bb	1	Total	C	H	0
			96	40	56	
34	Bb	1	Total	C	H	0
			96	40	56	
34	Bb	1	Total	C	H	0
			96	40	56	
34	Cc	1	Total	C	H	0
			96	40	56	
34	Cc	1	Total	C	H	0
			96	40	56	
34	Cc	1	Total	C	H	0
			96	40	56	
34	Dd	1	Total	C	H	0
			96	40	56	
34	Hh	1	Total	C	H	0
			96	40	56	
34	Kk	1	Total	C	H	0
			96	40	56	

- Molecule 35 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: $C_{53}H_{80}O_2$) (labeled as "Ligand of Interest" by depositor).



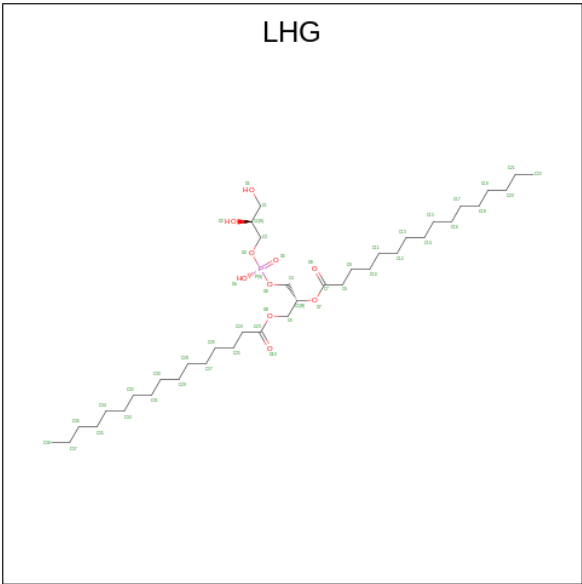
Mol	Chain	Residues	Atoms			AltConf
35	A	1	Total	C	O	0
			55	53	2	

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Mol	Chain	Residues	Atoms			AltConf
35	D	1	Total	C	O	0
			55	53	2	
35	d	1	Total	C	O	0
			55	53	2	
35	AA	1	Total	C	O	0
			55	53	2	
35	DD	1	Total	C	O	0
			55	53	2	
35	Dd	1	Total	C	O	0
			55	53	2	

- Molecule 36 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: C₃₈H₇₅O₁₀P).



Mol	Chain	Residues	Atoms					AltConf
36	A	1	Total	C	H	O	P	0
			72	23	38	10	1	
36	A	1	Total	C	H	O	P	0
			81	26	44	10	1	
36	A	1	Total	C	H	O	P	0
			108	34	63	10	1	
36	Rr	1	Total	C	H	O	P	0
			123	38	74	10	1	
36	Ss	1	Total	C	H	O	P	0
			117	37	69	10	1	
36	Yy	1	Total	C	H	O	P	0
			123	38	74	10	1	

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Mol	Chain	Residues	Atoms					AltConf
36	44	1	Total	C	H	O	P	0
			33	10	12	10	1	
36	44	1	Total	C	H	O	P	0
			31	8	12	10	1	
36	11	1	Total	C	H	O	P	0
			72	23	38	10	1	
36	22	1	Total	C	H	O	P	0
			72	23	38	10	1	
36	33	1	Total	C	H	O	P	0
			72	23	38	10	1	
36	1	1	Total	C	H	O	P	0
			60	19	30	10	1	
36	3	1	Total	C	H	O	P	0
			72	23	38	10	1	
36	0	1	Total	C	H	O	P	0
			114	36	67	10	1	
36	C	1	Total	C	H	O	P	0
			63	20	32	10	1	
36	D	1	Total	C	H	O	P	0
			102	32	59	10	1	
36	D	1	Total	C	H	O	P	0
			123	38	74	10	1	
36	D	1	Total	C	H	O	P	0
			72	23	38	10	1	
36	G	1	Total	C	H	O	P	0
			72	23	38	10	1	
36	J	1	Total	C	H	O	P	0
			51	16	24	10	1	
36	K	1	Total	C	H	O	P	0
			72	23	38	10	1	
36	N	1	Total	C	H	O	P	0
			84	27	46	10	1	
36	Y	1	Total	C	H	O	P	0
			123	38	74	10	1	
36	a	1	Total	C	H	O	P	0
			81	26	44	10	1	
36	d	1	Total	C	H	O	P	0
			102	32	59	10	1	
36	d	1	Total	C	H	O	P	0
			123	38	74	10	1	
36	g	1	Total	C	H	O	P	0
			72	23	38	10	1	

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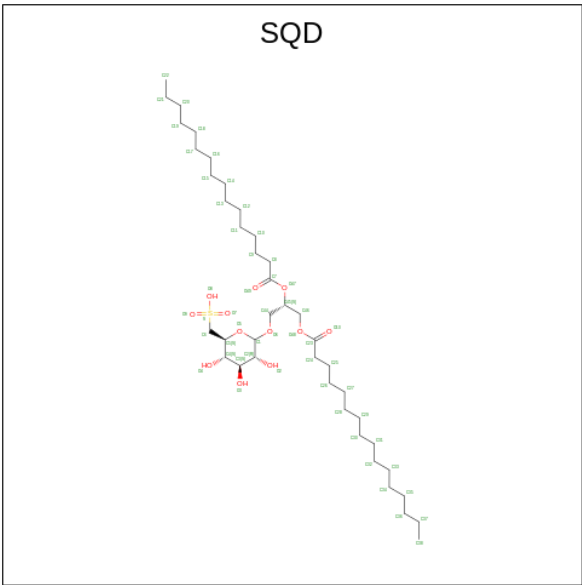
Mol	Chain	Residues	Atoms					AltConf
36	l	1	Total 123	C 38	H 74	O 10	P 1	0
36	n	1	Total 123	C 38	H 74	O 10	P 1	0
36	r	1	Total 123	C 38	H 74	O 10	P 1	0
36	s	1	Total 117	C 37	H 69	O 10	P 1	0
36	y	1	Total 123	C 38	H 74	O 10	P 1	0
36	4	1	Total 31	C 8	H 12	O 10	P 1	0
36	4	1	Total 33	C 10	H 12	O 10	P 1	0
36	AA	1	Total 72	C 23	H 38	O 10	P 1	0
36	AA	1	Total 108	C 34	H 63	O 10	P 1	0
36	BB	1	Total 72	C 23	H 38	O 10	P 1	0
36	CC	1	Total 72	C 23	H 38	O 10	P 1	0
36	CC	1	Total 81	C 26	H 44	O 10	P 1	0
36	DD	1	Total 102	C 32	H 59	O 10	P 1	0
36	DD	1	Total 123	C 38	H 74	O 10	P 1	0
36	EE	1	Total 93	C 29	H 53	O 10	P 1	0
36	GG	1	Total 72	C 23	H 38	O 10	P 1	0
36	II	1	Total 72	C 23	H 38	O 10	P 1	0
36	JJ	1	Total 69	C 22	H 36	O 10	P 1	0
36	KK	1	Total 72	C 23	H 38	O 10	P 1	0
36	NN	1	Total 84	C 27	H 46	O 10	P 1	0
36	SS	1	Total 48	C 15	H 22	O 10	P 1	0

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Mol	Chain	Residues	Atoms					AltConf
36	YY	1	Total	C	H	O	P	0
			123	38	74	10	1	
36	Dd	1	Total	C	H	O	P	0
			102	32	59	10	1	
36	Dd	1	Total	C	H	O	P	0
			123	38	74	10	1	
36	Dd	1	Total	C	H	O	P	0
			81	26	44	10	1	
36	Gg	1	Total	C	H	O	P	0
			72	23	38	10	1	
36	Ll	1	Total	C	H	O	P	0
			123	38	74	10	1	
36	Nn	1	Total	C	H	O	P	0
			123	38	74	10	1	

- Molecule 37 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (three-letter code: SQD) (formula: C₄₁H₇₈O₁₂S).



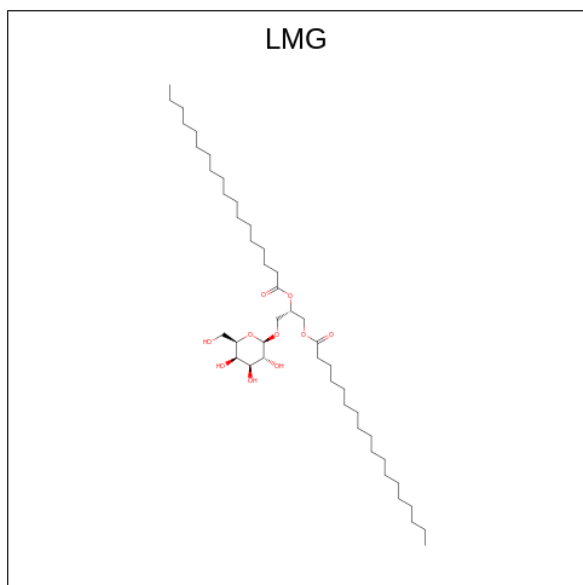
Mol	Chain	Residues	Atoms					AltConf
37	A	1	Total	C	H	O	S	0
			69	22	34	12	1	
37	C	1	Total	C	H	O	S	0
			132	41	78	12	1	
37	L	1	Total	C	H	O	S	0
			132	41	78	12	1	
37	L	1	Total	C	H	O	S	0
			72	23	36	12	1	

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Mol	Chain	Residues	Atoms					AltConf
37	l	1	Total	C	H	O	S	0
			132	41	78	12	1	
37	AA	1	Total	C	H	O	S	0
			69	22	34	12	1	
37	BB	1	Total	C	H	O	S	0
			72	23	36	12	1	
37	CC	1	Total	C	H	O	S	0
			132	41	78	12	1	
37	B	1	Total	C	H	O	S	0
			108	34	61	12	1	
37	B	1	Total	C	H	O	S	0
			72	23	36	12	1	
37	LL	1	Total	C	H	O	S	0
			72	23	36	12	1	
37	LL	1	Total	C	H	O	S	0
			132	41	78	12	1	
37	Aa	1	Total	C	H	O	S	0
			108	34	61	12	1	
37	Ll	1	Total	C	H	O	S	0
			132	41	78	12	1	

- Molecule 38 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$).



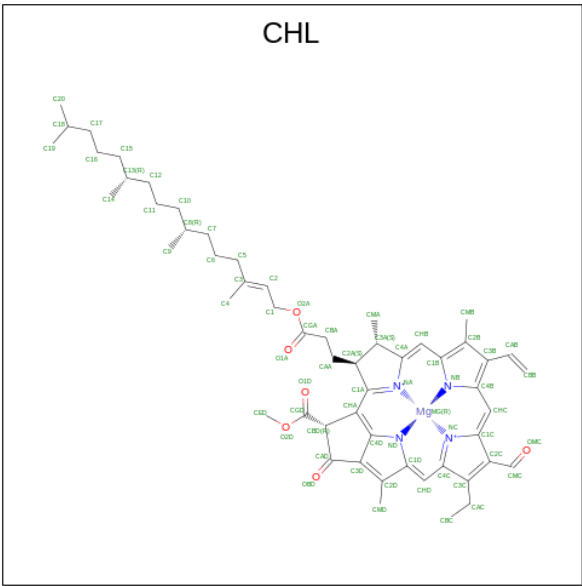
Mol	Chain	Residues	Atoms				AltConf
38	A	1	Total	C	H	O	0
			78	26	42	10	

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Mol	Chain	Residues	Atoms				AltConf
38	C	1	Total 123	C 41	H 72	O 10	0
38	F	1	Total 108	C 36	H 62	O 10	0
38	W	1	Total 114	C 38	H 66	O 10	0
38	a	1	Total 97	C 33	H 54	O 10	0
38	b	1	Total 78	C 26	H 42	O 10	0
38	b	1	Total 78	C 26	H 42	O 10	0
38	c	1	Total 72	C 24	H 38	O 10	0
38	j	1	Total 108	C 36	H 62	O 10	0
38	m	1	Total 123	C 41	H 72	O 10	0
38	AA	1	Total 78	C 26	H 42	O 10	0
38	BB	1	Total 105	C 35	H 60	O 10	0
38	CC	1	Total 87	C 29	H 48	O 10	0
38	DD	1	Total 108	C 36	H 62	O 10	0
38	B	1	Total 105	C 35	H 60	O 10	0
38	WW	1	Total 114	C 38	H 66	O 10	0
38	Aa	1	Total 97	C 33	H 54	O 10	0
38	Bb	1	Total 78	C 26	H 42	O 10	0
38	Bb	1	Total 78	C 26	H 42	O 10	0
38	Cc	1	Total 72	C 24	H 38	O 10	0
38	Dd	1	Total 108	C 36	H 62	O 10	0
38	Mm	1	Total 123	C 41	H 72	O 10	0

- Molecule 39 is CHLOROPHYLL B (three-letter code: CHL) (formula: C₅₅H₇₀MgN₄O₆).



Mol	Chain	Residues	Atoms						AltConf
39	Rr	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	Rr	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	Rr	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	Ss	1	Total	C	H	Mg	N	O	0
			91	41	39	1	4	6	
39	Ss	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	Ss	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	Ss	1	Total	C	H	Mg	N	O	0
			83	38	34	1	4	6	
39	Yy	1	Total	C	H	Mg	N	O	0
			136	55	70	1	4	6	
39	Yy	1	Total	C	H	Mg	N	O	0
			81	37	33	1	4	6	
39	Yy	1	Total	C	H	Mg	N	O	0
			75	35	31	1	4	4	
39	Yy	1	Total	C	H	Mg	N	O	0
			72	34	29	1	4	4	
39	Yy	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	Yy	1	Total	C	H	Mg	N	O	0
			136	55	70	1	4	6	

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Mol	Chain	Residues	Atoms						AltConf
39	44	1	Total	C	H	Mg	N	O	0
			73	34	28	1	4	6	
39	44	1	Total	C	H	Mg	N	O	0
			77	35	31	1	4	6	
39	44	1	Total	C	H	Mg	N	O	0
			77	35	31	1	4	6	
39	44	1	Total	C	H	Mg	N	O	0
			77	35	31	1	4	6	
39	44	1	Total	C	H	Mg	N	O	0
			77	35	31	1	4	6	
39	11	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	11	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	11	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	11	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	11	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	22	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	22	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	22	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	22	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	22	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	33	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	33	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	33	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	33	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	33	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	
39	1	1	Total	C	H	Mg	N	O	0
			67	32	26	1	4	4	

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Mol	Chain	Residues	Atoms						AltConf
39	1	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	1	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	1	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	1	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	2	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	2	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	2	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	2	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	2	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	2	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	3	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	3	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	3	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	3	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	3	1	Total 67	C 32	H 26	Mg 1	N 4	O 4	0
39	G	1	Total 136	C 55	H 70	Mg 1	N 4	O 6	0
39	G	1	Total 72	C 34	H 29	Mg 1	N 4	O 4	0
39	G	1	Total 72	C 34	H 29	Mg 1	N 4	O 4	0
39	G	1	Total 77	C 35	H 31	Mg 1	N 4	O 6	0
39	G	1	Total 69	C 33	H 27	Mg 1	N 4	O 4	0
39	G	1	Total 72	C 34	H 29	Mg 1	N 4	O 4	0
39	N	1	Total 75	C 35	H 31	Mg 1	N 4	O 4	0

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Mol	Chain	Residues	Atoms						AltConf
39	N	1	Total 69	C 33	H 27	Mg 1	N 4	O 4	0
39	N	1	Total 69	C 33	H 27	Mg 1	N 4	O 4	0
39	N	1	Total 136	C 55	H 70	Mg 1	N 4	O 6	0
39	N	1	Total 69	C 33	H 27	Mg 1	N 4	O 4	0
39	N	1	Total 87	C 39	H 37	Mg 1	N 4	O 6	0
39	R	1	Total 87	C 39	H 37	Mg 1	N 4	O 6	0
39	R	1	Total 87	C 39	H 37	Mg 1	N 4	O 6	0
39	R	1	Total 87	C 39	H 37	Mg 1	N 4	O 6	0
39	S	1	Total 91	C 41	H 39	Mg 1	N 4	O 6	0
39	S	1	Total 69	C 33	H 27	Mg 1	N 4	O 4	0
39	S	1	Total 69	C 33	H 27	Mg 1	N 4	O 4	0
39	S	1	Total 72	C 34	H 29	Mg 1	N 4	O 4	0
39	Y	1	Total 136	C 55	H 70	Mg 1	N 4	O 6	0
39	Y	1	Total 81	C 37	H 33	Mg 1	N 4	O 6	0
39	Y	1	Total 75	C 35	H 31	Mg 1	N 4	O 4	0
39	Y	1	Total 72	C 34	H 29	Mg 1	N 4	O 4	0
39	Y	1	Total 87	C 39	H 37	Mg 1	N 4	O 6	0
39	Y	1	Total 136	C 55	H 70	Mg 1	N 4	O 6	0
39	g	1	Total 136	C 55	H 70	Mg 1	N 4	O 6	0
39	g	1	Total 72	C 34	H 29	Mg 1	N 4	O 4	0
39	g	1	Total 72	C 34	H 29	Mg 1	N 4	O 4	0

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Mol	Chain	Residues	Atoms						AltConf
39	g	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	g	1	Total	C	H	Mg	N	O	0
			69	33	27	1	4	4	
39	g	1	Total	C	H	Mg	N	O	0
			72	34	29	1	4	4	
39	n	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	n	1	Total	C	H	Mg	N	O	0
			81	37	33	1	4	6	
39	n	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	n	1	Total	C	H	Mg	N	O	0
			136	55	70	1	4	6	
39	n	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	n	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	r	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	r	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	r	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	s	1	Total	C	H	Mg	N	O	0
			91	41	39	1	4	6	
39	s	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	s	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	s	1	Total	C	H	Mg	N	O	0
			83	38	34	1	4	6	
39	y	1	Total	C	H	Mg	N	O	0
			136	55	70	1	4	6	
39	y	1	Total	C	H	Mg	N	O	0
			81	37	33	1	4	6	
39	y	1	Total	C	H	Mg	N	O	0
			75	35	31	1	4	4	
39	y	1	Total	C	H	Mg	N	O	0
			72	34	29	1	4	4	
39	y	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	

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Mol	Chain	Residues	Atoms						AltConf
39	y	1	Total	C	H	Mg	N	O	0
			136	55	70	1	4	6	
39	4	1	Total	C	H	Mg	N	O	0
			73	34	28	1	4	6	
39	4	1	Total	C	H	Mg	N	O	0
			77	35	31	1	4	6	
39	4	1	Total	C	H	Mg	N	O	0
			77	35	31	1	4	6	
39	4	1	Total	C	H	Mg	N	O	0
			77	35	31	1	4	6	
39	4	1	Total	C	H	Mg	N	O	0
			77	35	31	1	4	6	
39	GG	1	Total	C	H	Mg	N	O	0
			136	55	70	1	4	6	
39	GG	1	Total	C	H	Mg	N	O	0
			72	34	29	1	4	4	
39	GG	1	Total	C	H	Mg	N	O	0
			72	34	29	1	4	4	
39	GG	1	Total	C	H	Mg	N	O	0
			77	35	31	1	4	6	
39	GG	1	Total	C	H	Mg	N	O	0
			69	33	27	1	4	4	
39	GG	1	Total	C	H	Mg	N	O	0
			72	34	29	1	4	4	
39	NN	1	Total	C	H	Mg	N	O	0
			75	35	31	1	4	4	
39	NN	1	Total	C	H	Mg	N	O	0
			69	33	27	1	4	4	
39	NN	1	Total	C	H	Mg	N	O	0
			69	33	27	1	4	4	
39	NN	1	Total	C	H	Mg	N	O	0
			136	55	70	1	4	6	
39	NN	1	Total	C	H	Mg	N	O	0
			69	33	27	1	4	4	
39	NN	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	RR	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	RR	1	Total	C	H	Mg	N	O	0
			86	39	36	1	4	6	
39	RR	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	

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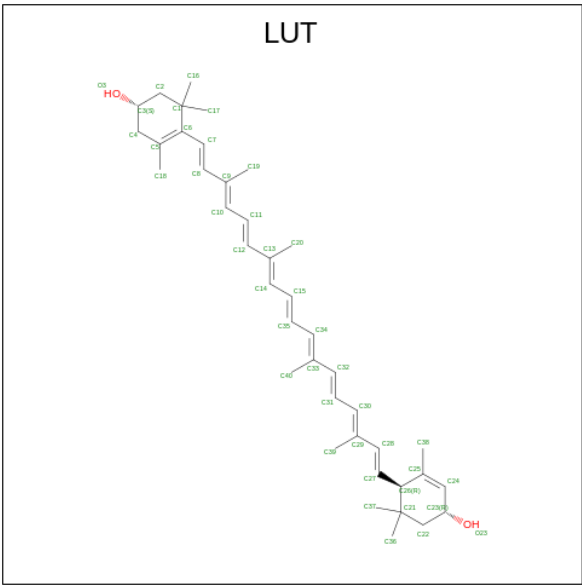
Mol	Chain	Residues	Atoms						AltConf
39	SS	1	Total	C	H	Mg	N	O	0
			91	41	39	1	4	6	
39	SS	1	Total	C	H	Mg	N	O	0
			69	33	27	1	4	4	
39	SS	1	Total	C	H	Mg	N	O	0
			69	33	27	1	4	4	
39	SS	1	Total	C	H	Mg	N	O	0
			83	38	34	1	4	6	
39	YY	1	Total	C	H	Mg	N	O	0
			136	55	70	1	4	6	
39	YY	1	Total	C	H	Mg	N	O	0
			81	37	33	1	4	6	
39	YY	1	Total	C	H	Mg	N	O	0
			75	35	31	1	4	4	
39	YY	1	Total	C	H	Mg	N	O	0
			72	34	29	1	4	4	
39	YY	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	YY	1	Total	C	H	Mg	N	O	0
			136	55	70	1	4	6	
39	Gg	1	Total	C	H	Mg	N	O	0
			136	55	70	1	4	6	
39	Gg	1	Total	C	H	Mg	N	O	0
			72	34	29	1	4	4	
39	Gg	1	Total	C	H	Mg	N	O	0
			72	34	29	1	4	4	
39	Gg	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	Gg	1	Total	C	H	Mg	N	O	0
			69	33	27	1	4	4	
39	Gg	1	Total	C	H	Mg	N	O	0
			72	34	29	1	4	4	
39	Nn	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	Nn	1	Total	C	H	Mg	N	O	0
			81	37	33	1	4	6	
39	Nn	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	
39	Nn	1	Total	C	H	Mg	N	O	0
			136	55	70	1	4	6	
39	Nn	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	

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Mol	Chain	Residues	Atoms						AltConf
39	Nn	1	Total	C	H	Mg	N	O	0
			87	39	37	1	4	6	

- Molecule 40 is (3R,3'R,6S)-4,5-DIDEHYDRO-5,6-DIHYDRO-BETA,BETA-CAROTENE-3,3'-DIOL (three-letter code: LUT) (formula: C₄₀H₅₆O₂).



Mol	Chain	Residues	Atoms				AltConf
40	Rr	1	Total	C	H	O	0
			98	40	56	2	
40	Ss	1	Total	C	H	O	0
			98	40	56	2	
40	Ss	1	Total	C	H	O	0
			98	40	56	2	
40	Yy	1	Total	C	H	O	0
			98	40	56	2	
40	Yy	1	Total	C	H	O	0
			98	40	56	2	
40	44	1	Total	C	H	O	0
			98	40	56	2	
40	22	1	Total	C	H	O	0
			98	40	56	2	
40	2	1	Total	C	H	O	0
			98	40	56	2	
40	G	1	Total	C	H	O	0
			98	40	56	2	
40	G	1	Total	C	H	O	0
			98	40	56	2	

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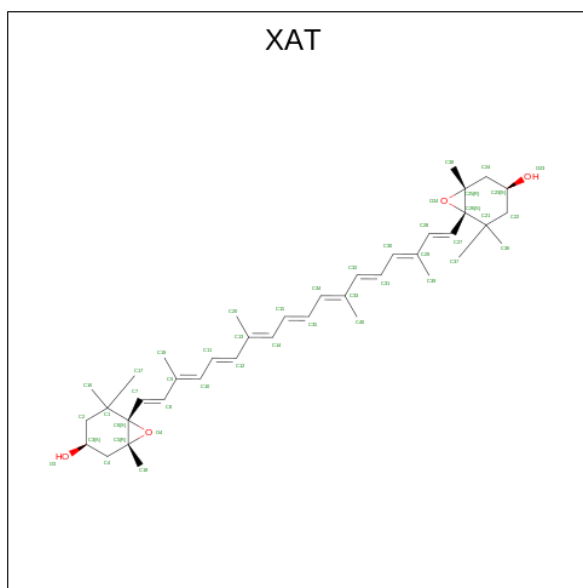
Mol	Chain	Residues	Atoms				AltConf
40	N	1	Total 98	C 40	H 56	O 2	0
40	N	1	Total 98	C 40	H 56	O 2	0
40	R	1	Total 98	C 40	H 56	O 2	0
40	S	1	Total 98	C 40	H 56	O 2	0
40	Y	1	Total 98	C 40	H 56	O 2	0
40	Y	1	Total 98	C 40	H 56	O 2	0
40	g	1	Total 98	C 40	H 56	O 2	0
40	g	1	Total 98	C 40	H 56	O 2	0
40	n	1	Total 98	C 40	H 56	O 2	0
40	n	1	Total 98	C 40	H 56	O 2	0
40	r	1	Total 98	C 40	H 56	O 2	0
40	s	1	Total 98	C 40	H 56	O 2	0
40	s	1	Total 98	C 40	H 56	O 2	0
40	y	1	Total 98	C 40	H 56	O 2	0
40	y	1	Total 98	C 40	H 56	O 2	0
40	4	1	Total 98	C 40	H 56	O 2	0
40	GG	1	Total 98	C 40	H 56	O 2	0
40	GG	1	Total 98	C 40	H 56	O 2	0
40	NN	1	Total 98	C 40	H 56	O 2	0
40	NN	1	Total 98	C 40	H 56	O 2	0
40	RR	1	Total 98	C 40	H 56	O 2	0

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Mol	Chain	Residues	Atoms				AltConf
40	SS	1	Total	C	H	O	0
			98	40	56	2	
40	YY	1	Total	C	H	O	0
			98	40	56	2	
40	YY	1	Total	C	H	O	0
			98	40	56	2	
40	Gg	1	Total	C	H	O	0
			98	40	56	2	
40	Gg	1	Total	C	H	O	0
			98	40	56	2	
40	Nn	1	Total	C	H	O	0
			98	40	56	2	
40	Nn	1	Total	C	H	O	0
			98	40	56	2	

- Molecule 41 is (3S,5R,6S,3'S,5'R,6'S)-5,6,5',6'-DIEPOXY-5,6,5',6'- TETRAHYDRO-BETA ,BETA-CAROTENE-3,3'-DIOL (three-letter code: XAT) (formula: C₄₀H₅₆O₄).



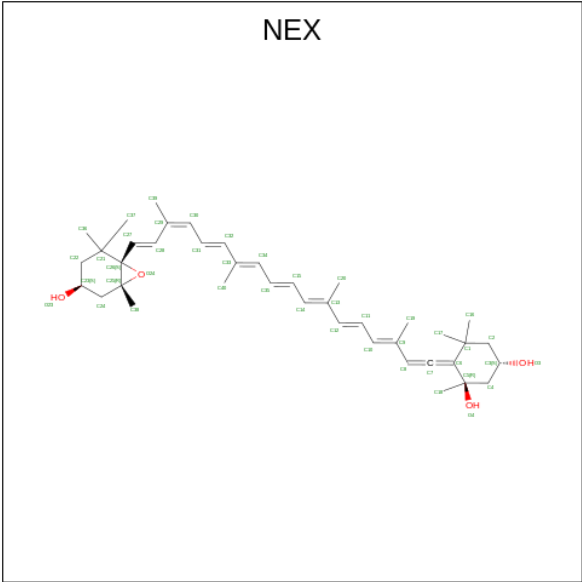
Mol	Chain	Residues	Atoms				AltConf
41	Rr	1	Total	C	H	O	0
			100	40	56	4	
41	Yy	1	Total	C	H	O	0
			100	40	56	4	
41	44	1	Total	C	H	O	0
			100	40	56	4	
41	G	1	Total	C	H	O	0
			100	40	56	4	

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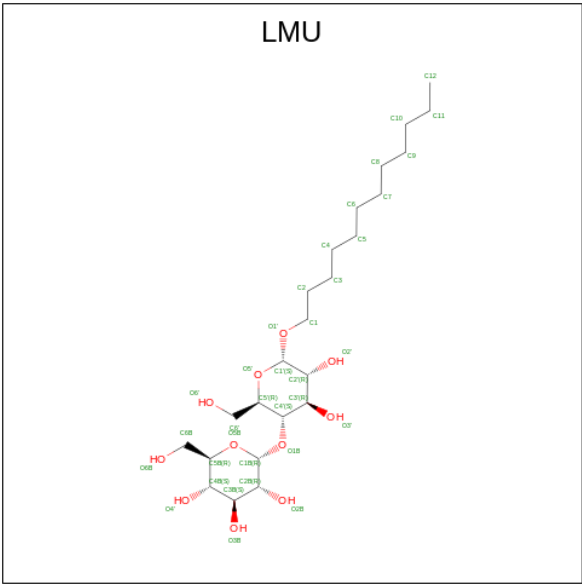
Mol	Chain	Residues	Atoms				AltConf
41	G	1	Total 100	C 40	H 56	O 4	0
41	N	1	Total 100	C 40	H 56	O 4	0
41	R	1	Total 100	C 40	H 56	O 4	0
41	g	1	Total 100	C 40	H 56	O 4	0
41	r	1	Total 100	C 40	H 56	O 4	0
41	y	1	Total 100	C 40	H 56	O 4	0
41	y	1	Total 100	C 40	H 56	O 4	0
41	4	1	Total 100	C 40	H 56	O 4	0
41	GG	1	Total 100	C 40	H 56	O 4	0
41	GG	1	Total 100	C 40	H 56	O 4	0
41	NN	1	Total 100	C 40	H 56	O 4	0
41	RR	1	Total 100	C 40	H 56	O 4	0
41	Gg	1	Total 100	C 40	H 56	O 4	0
41	Nn	1	Total 100	C 40	H 56	O 4	0

- Molecule 42 is (1R,3R)-6-[(3E,5E,7E,9E,11E,13E,15E,17E)-18-[(1S,4R,6R)-4-HYDROXY-2,2,6-TRIMETHYL-7-OXABICYCLO[4.1.0]HEPT-1-YL]-3,7,12,16-TETRAMETHYLOCTADEC-1,3,5,7,9,11,13,15,17-NONAENYLIDENE]-1,5,5-TRIMETHYLCYCLOHEXANE-1,3-DIOL (three-letter code: NEX) (formula: C₄₀H₅₆O₄).



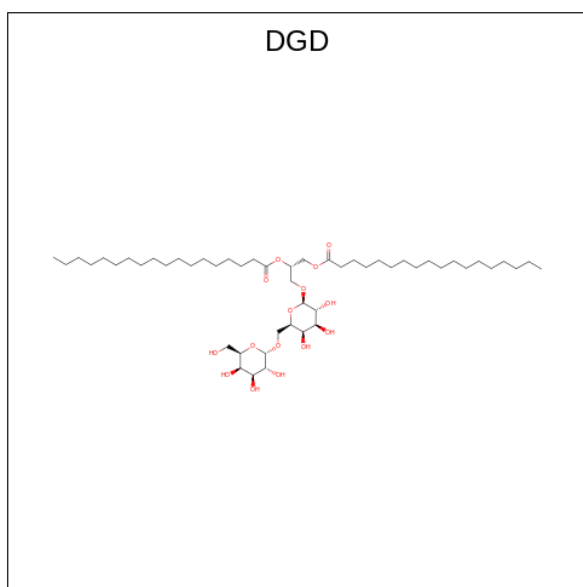
Mol	Chain	Residues	Atoms				AltConf
42	Rr	1	Total	C	H	O	0
			100	40	56	4	
42	Yy	1	Total	C	H	O	0
			100	40	56	4	
42	N	1	Total	C	H	O	0
			100	40	56	4	
42	R	1	Total	C	H	O	0
			100	40	56	4	
42	Y	1	Total	C	H	O	0
			100	40	56	4	
42	Y	1	Total	C	H	O	0
			100	40	56	4	
42	g	1	Total	C	H	O	0
			100	40	56	4	
42	n	1	Total	C	H	O	0
			100	40	56	4	
42	y	1	Total	C	H	O	0
			100	40	56	4	
42	NN	1	Total	C	H	O	0
			100	40	56	4	
42	RR	1	Total	C	H	O	0
			100	40	56	4	
42	YY	1	Total	C	H	O	0
			100	40	56	4	
42	Gg	1	Total	C	H	O	0
			100	40	56	4	
42	Nn	1	Total	C	H	O	0
			100	40	56	4	

- Molecule 43 is DODECYL-ALPHA-D-MALTOSIDE (three-letter code: LMU) (formula: $C_{24}H_{46}O_{11}$).



Mol	Chain	Residues	Atoms				AltConf
43	C	1	Total	C	H	O	0
			54	16	27	11	
43	R	1	Total	C	H	O	0
			54	16	27	11	
43	KK	1	Total	C	H	O	0
			54	16	27	11	
43	RR	1	Total	C	H	O	0
			53	16	26	11	

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



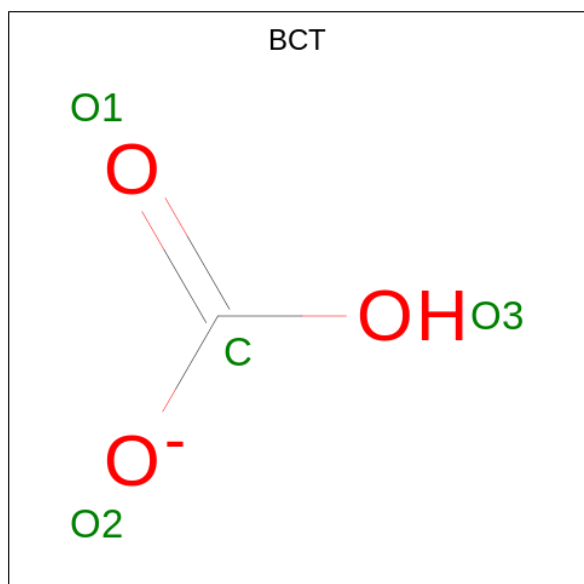
Mol	Chain	Residues	Atoms				AltConf
44	C	1	Total	C	H	O	0
			117	40	62	15	
44	C	1	Total	C	H	O	0
			132	47	70	15	
44	C	1	Total	C	H	O	0
			110	37	58	15	
44	D	1	Total	C	H	O	0
			132	47	70	15	
44	a	1	Total	C	H	O	0
			117	40	62	15	
44	c	1	Total	C	H	O	0
			117	40	62	15	
44	c	1	Total	C	H	O	0
			108	37	56	15	
44	h	1	Total	C	H	O	0
			132	47	70	15	
44	BB	1	Total	C	H	O	0
			132	47	70	15	
44	BB	1	Total	C	H	O	0
			117	40	62	15	
44	BB	1	Total	C	H	O	0
			121	42	64	15	
44	CC	1	Total	C	H	O	0
			117	40	62	15	
44	CC	1	Total	C	H	O	0
			132	47	70	15	
44	CC	1	Total	C	H	O	0
			117	40	62	15	

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Mol	Chain	Residues	Atoms				AltConf
44	B	1	Total	C	H	O	0
			117	40	62	15	
44	B	1	Total	C	H	O	0
			121	42	64	15	
44	Aa	1	Total	C	H	O	0
			117	40	62	15	
44	Cc	1	Total	C	H	O	0
			117	40	62	15	
44	Cc	1	Total	C	H	O	0
			108	37	56	15	
44	Hh	1	Total	C	H	O	0
			132	47	70	15	

- Molecule 45 is BICARBONATE ION (three-letter code: BCT) (formula: CHO_3).



Mol	Chain	Residues	Atoms				AltConf
45	D	1	Total	C	O		0
			4	1	3		
45	a	1	Total	C	H	O	0
			5	1	1	3	
45	AA	1	Total	C	O		0
			4	1	3		
45	Aa	1	Total	C	H	O	0
			5	1	1	3	

- Molecule 46 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula: $\text{C}_{34}\text{H}_{32}\text{FeN}_4\text{O}_4$).



Mol	Chain	Residues	Atoms						AltConf
46	E	1	Total 73	C 34	Fe 1	H 30	N 4	O 4	0
46	e	1	Total 73	C 34	Fe 1	H 30	N 4	O 4	0
46	EE	1	Total 73	C 34	Fe 1	H 30	N 4	O 4	0
46	Ee	1	Total 73	C 34	Fe 1	H 30	N 4	O 4	0

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Photosystem II protein D1

Chain A:  95% 5%



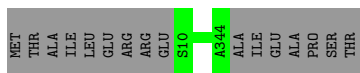
- Molecule 1: Photosystem II protein D1

Chain a:  95% 5%



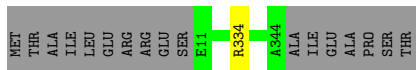
- Molecule 1: Photosystem II protein D1

Chain AA:  95% 5%



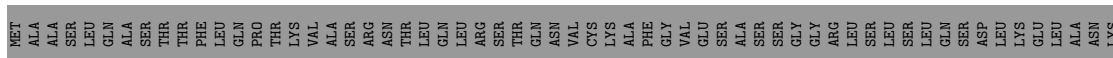
- Molecule 1: Photosystem II protein D1

Chain Aa:  95% 5%

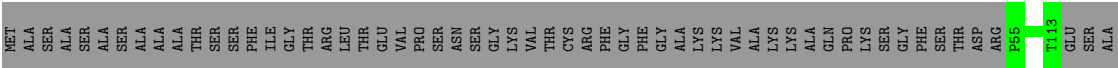


- Molecule 2: Oxygen-evolving enhancer protein 1, chloroplastic

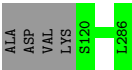
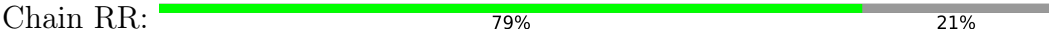
Chain Oo:  70% 30%



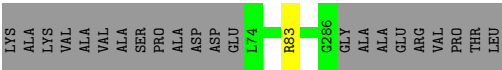
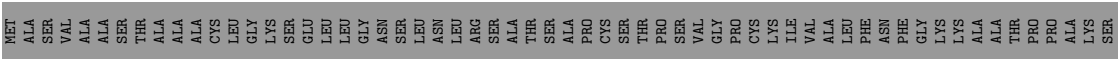
- Molecule 2: Oxygen-evolving enhancer protein 1, chloroplastic



● Molecule 3: Chlorophyll a-b binding protein, chloroplastic



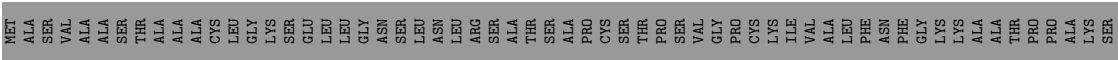
● Molecule 4: Chlorophyll a-b binding protein, chloroplastic



● Molecule 4: Chlorophyll a-b binding protein, chloroplastic



● Molecule 4: Chlorophyll a-b binding protein, chloroplastic



● Molecule 4: Chlorophyll a-b binding protein, chloroplastic



MET ALA SER VAL ALA ALA SER THR ALA ALA CYS LEU GLY LYS SER SER GLU LEU LEU GLY ASN SER SER LEU LEU LEU ARG SER SER ALA ALA THR SER SER ALA PRO CYS CYS THR THR PRO SER SER VAL GLY CYS CYS TLE VAL ALA ALA LEU PHE PHE ASN PHE GLY LYS LYS ALA ALA THR PRO PRO ALA LYS SER

LYS ALA LYS VAL ALA VAL ALA SER THR ALA ALA ASP ASP GLU L74 L100 L295

- Molecule 5: Photosystem II reaction center protein T

Chain Tt: 91% 9%

H1 S30 THR LYS LYS

- Molecule 5: Photosystem II reaction center protein T

Chain T: 91% 9%

H1 S30 THR LYS LYS

- Molecule 5: Photosystem II reaction center protein T

Chain t: 91% 9%

H1 S30 THR LYS LYS

- Molecule 5: Photosystem II reaction center protein T

Chain TT: 91% 9%

H1 S30 THR LYS LYS

- Molecule 6: Photosystem II 5 kDa protein, chloroplastic

Chain Uu: 26% 74%

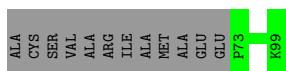
MET ALA SER ILE THR MET THR ALA SER PHE LEU GLY THR THR VAL SER SER GLN PRO PRO THR HIS HIS LEU ARG ARG GLY VAL VAL MET MET ALA LYS ALA MET PRO PRO GLU THR THR THR THR THR LYS LYS GLU GLU THR THR SER SER LYS ARG ARG ASP VAL PHE PHE VAL ALA ALA ALA ALA ALA

ALA CYS SER VAL ALA ARG ILE ALA MET SER PHE LEU GLU PRO K3 K28

- Molecule 6: Photosystem II 5 kDa protein, chloroplastic

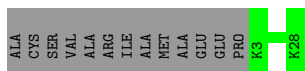
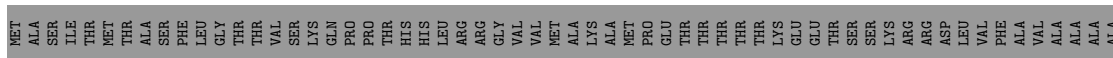
Chain U: 27% 73%

MET ALA SER ILE THR MET THR ALA SER PHE LEU GLY THR THR VAL SER SER GLN PRO PRO THR HIS HIS LEU ARG ARG GLY VAL VAL MET MET ALA LYS ALA MET PRO PRO GLU THR THR THR THR THR LYS LYS GLU GLU THR THR SER SER LYS ARG ARG ASP VAL PHE PHE VAL ALA ALA ALA ALA ALA



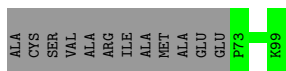
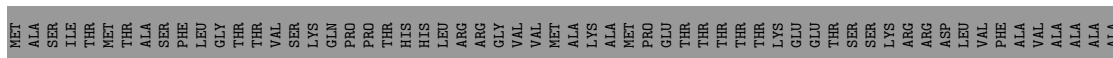
- Molecule 6: Photosystem II 5 kDa protein, chloroplastic

Chain u: 26% 74%



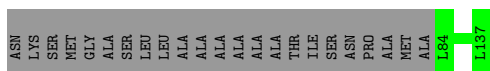
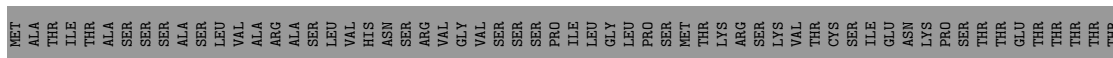
- Molecule 6: Photosystem II 5 kDa protein, chloroplastic

Chain UU:  27% 73%



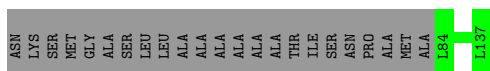
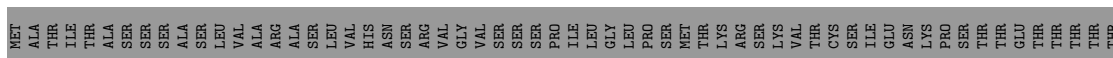
- Molecule 7: Photosystem II reaction center W protein, chloroplatic

Chain Ww: 39% 61%



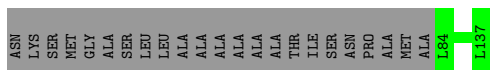
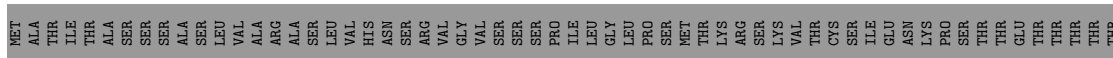
- Molecule 7: Photosystem II reaction center W protein, chloroplastic


Chain W:  39% 61%

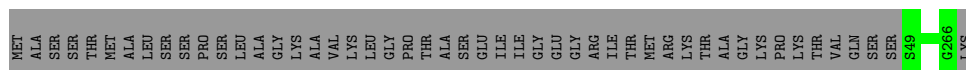


- Molecule 7: Photosystem II reaction center W protein, chloroplatic


Chain w: 39% 61%

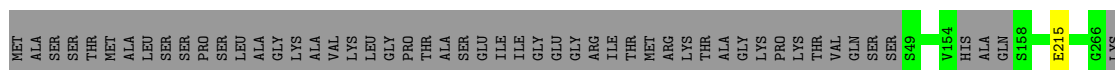


Chain Yy:  82% 18%




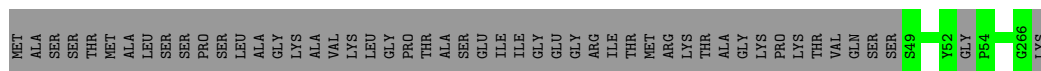
- Molecule 9: Chlorophyll a-b binding protein, chloroplastic

Chain G:  80% 19%




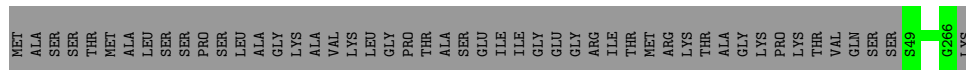
- Molecule 9: Chlorophyll a-b binding protein, chloroplastic

Chain N:  81% 19%




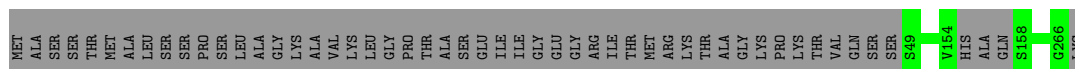
- Molecule 9: Chlorophyll a-b binding protein, chloroplastic

Chain Y:  82% 18%




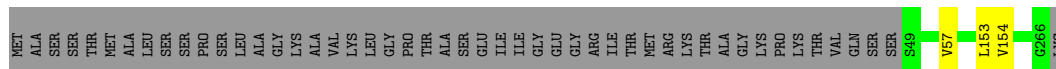
- Molecule 9: Chlorophyll a-b binding protein, chloroplastic

Chain g:  81% 19%




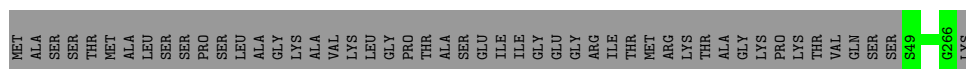
- Molecule 9: Chlorophyll a-b binding protein, chloroplastic

Chain n:  81% 18%



- Molecule 9: Chlorophyll a-b binding protein, chloroplastic

Chain y:  82% 18%

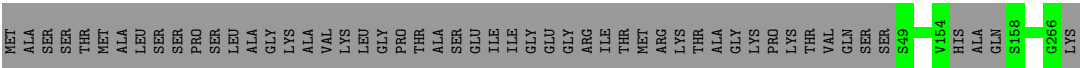


- Molecule 9: Chlorophyll a-b binding protein, chloroplastic

Chain GG:

81%

19%

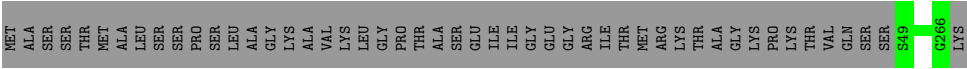


- Molecule 9: Chlorophyll a-b binding protein, chloroplastic

Chain NN:

82%

18%

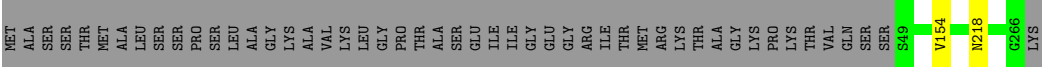


- Molecule 9: Chlorophyll a-b binding protein, chloroplastic

Chain YY:

81%

18%

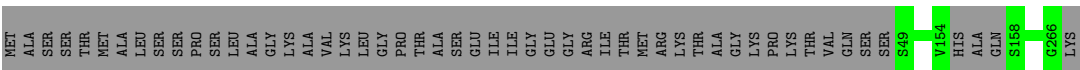


- Molecule 9: Chlorophyll a-b binding protein, chloroplastic

Chain Gg:

81%

19%

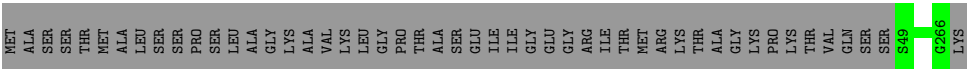


- Molecule 9: Chlorophyll a-b binding protein, chloroplastic

Chain Nn:

82%

18%



- Molecule 10: Photosystem II reaction center protein Z

Chain Zz:

97%



- Molecule 10: Photosystem II reaction center protein Z

Chain Z:

98%

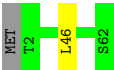


- Molecule 10: Photosystem II reaction center protein Z

Chain z:

97%

..



- Molecule 10: Photosystem II reaction center protein Z

Chain ZZ:

95%

..



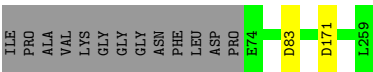
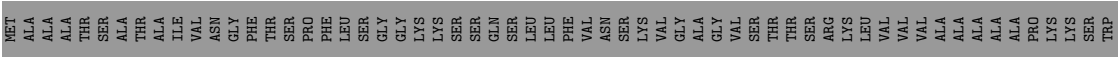
- Molecule 11: Chlorophyll a-b binding protein CP24, chloroplastic

Chain 44:

71%

.

28%



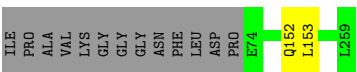
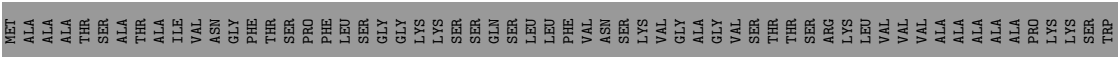
- Molecule 11: Chlorophyll a-b binding protein CP24, chloroplastic

Chain 4:

71%

.

28%

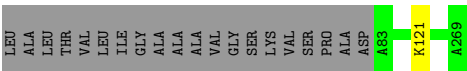
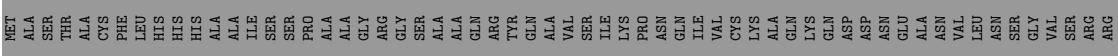


- Molecule 12: Oxygen-evolving enhancer protein 2, chloroplastic

Chain Pp:

70%

30%

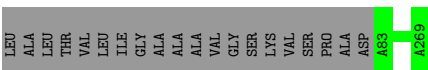
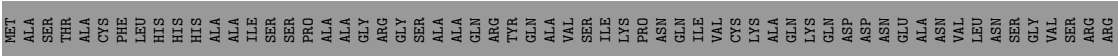


- Molecule 12: Oxygen-evolving enhancer protein 2, chloroplastic

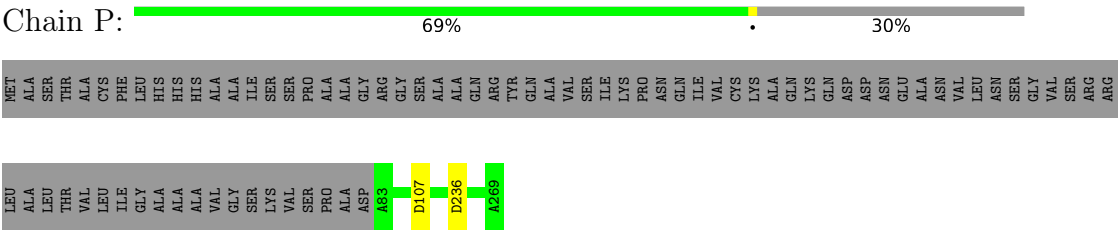
Chain p:

70%

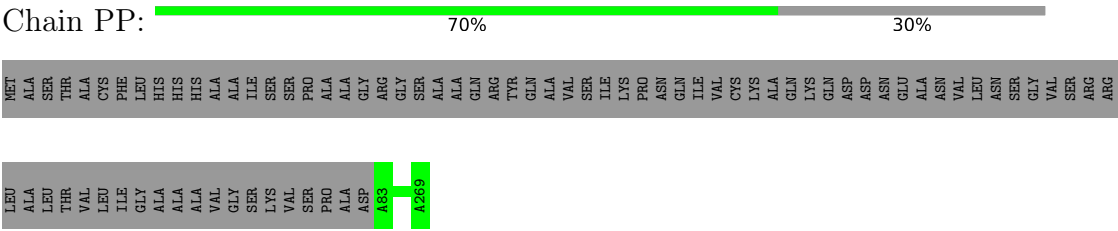
30%



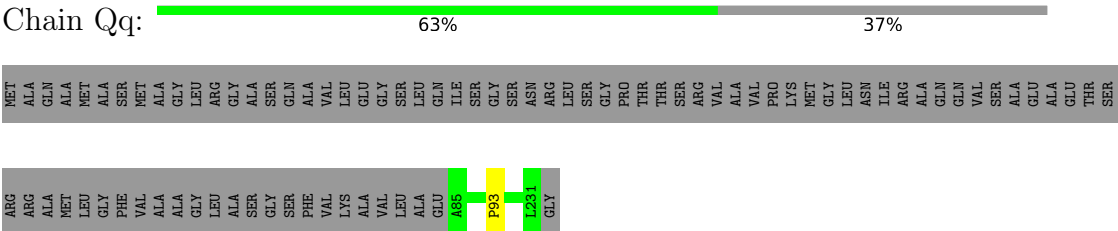
• Molecule 12: Oxygen-evolving enhancer protein 2, chloroplastic



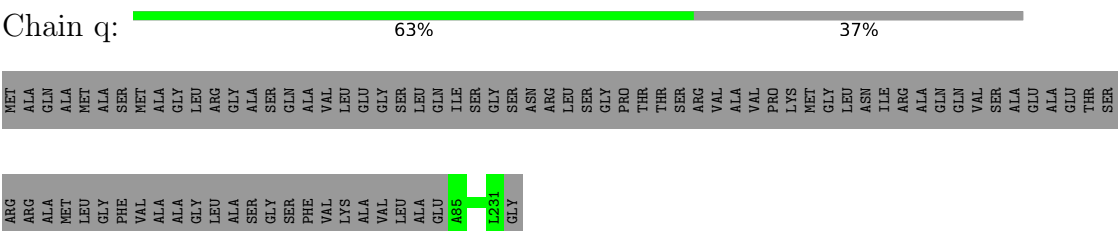
• Molecule 12: Oxygen-evolving enhancer protein 2, chloroplastic



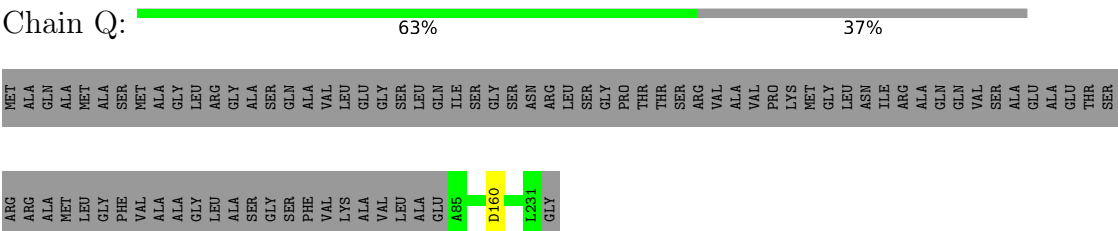
• Molecule 13: Oxygen-evolving enhancer protein 3, chloroplastic



• Molecule 13: Oxygen-evolving enhancer protein 3, chloroplastic



• Molecule 13: Oxygen-evolving enhancer protein 3, chloroplastic



• Molecule 13: Oxygen-evolving enhancer protein 3, chloroplastic



[illegible]

- Chain 11: 76% 23%

V154	L190	Q232	G266	ASN	MET	ALA	SER	THR	MET	ALA	SER	SER	PRO	ALA	PHE	GLY	LYS	ALA	VAL	LYS	LEU	ASN	PRO	SER	THR	SER	ASP	MET	ILE	GLY	GLU	GLY	ARG	ILE	SER	MET	ARG	LYS	LYS	SER	ALA	GLY	LYS	PRO	LYS	ASN	VAL	SER	SER	SER	GLY	S49	P50	W51	TYR	GLY	PRO	ASP	ARG	VAL	LYS	Y59
------	------	------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

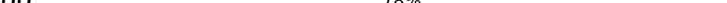
- Chain 22: 82% 18%

MET	ALA	SER	SER	THR	MET	ALA	LEU	SER	SER	PRO	PRO	PHE	GLY	GLY	ALA	ALA	VAL	LYS	LEU	ASN	PRO	SER	THR	SER	ASP	MET	ILE	GLY	GLY	GLU	ARG	ILE	SER	MET	ARG	LYS	SER	ALA	ALA	GLY	LYS	PRO	LYS	ASN	VAL	SER	SER	GLY	S49	G266	ASN
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	-----

- Chain 1: 
- | Residue | Category |
|---------|----------|
| MET | Green |
| ALA | Green |
| SER | Green |
| SER | Green |
| THR | Green |
| MET | Green |
| ALA | Green |
| LEU | Green |
| SER | Green |
| SER | Green |
| PRO | Green |
| ALA | Green |
| PHE | Green |
| GLY | Green |
| GLY | Green |
| LYS | Green |
| ALA | Green |
| VAL | Green |
| LYS | Green |
| LEU | Green |
| ASN | Green |
| PRO | Green |
| SER | Green |
| THR | Green |
| SER | Green |
| ASP | Green |
| MET | Green |
| ILE | Green |
| GLY | Green |
| GLU | Green |
| GLY | Green |
| ARG | Green |
| ILE | Green |
| SER | Green |
| MET | Green |
| ARG | Green |
| LYS | Green |
| SER | Green |
| ALA | Green |
| ALA | Green |
| GLY | Green |
| LYS | Green |
| PRO | Green |
| LYS | Green |
| ASN | Green |
| VAL | Green |
| SER | Green |
| SER | Green |
| GLY | Green |
| S49 | Green |
| P50 | Green |
| W51 | Green |
| TYR | Grey |
| GLY | Grey |
| PRO | Grey |
| ASP | Grey |
| ARG | Grey |
| VAL | Grey |
| LYS | Grey |
| Y59 | Green |
- 
- | Residue | Category |
|---------|----------|
| Y147 | Green |
| L190 | Green |
| TYR | Green |
| PRO | Green |
| GLY | Green |
| S195 | Green |
| G266 | Green |
| ASN | Grey |

- Chain 2: 82% 18%

MET	ALA	SER	SER	THR	MET	ALA	LEU	SER	SER	PRO	ALA	ALA	PHE	GLY	GLY	ALA	LYS	VAL	ASN	LEU	PRO	SER	THR	SER	ASP	MET	ILE	GLY	GLU	GLY	ARG	ILE	SER	MET	ARG	LYS	SER	ALA	ALA	GLY	LYS	PRO	LYS	ASN	VAL	SER	SER	GLY	S49	G266
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------

- Chain 33:  78% 22%

MET	ALA	THR	MET	VAL	SER	SER	SER	THR	VAL	LEU	THR	PRO	PRO	ASN	ASN	ASP	GLY	GLY	GLY	THR	THR	LEU	ARG	ASP	VAL	VAL	VAL	PRO	MET	GLY	SER	GLY	GLY	PHE	THR	MET	GLY	ASN	D44	G145	ASN	PRO	ASN	ASN	LEU	VAL	VAL	HIS	A152	L177	ASP	GLY	VAL	GLY	SER
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------------	-------------	-----	-----	-----	-----	-----	-----	-----	-----	-------------	-------------	-----	-----	-----	-----	-----

GLU
ILE
ALA
ARG
GLY
SER
ASP
ASN
GLY
THR
LEU
LEU
LEU
VAL
PHE
ASN
PRO
ALA
ILE
GLY
THR
TRP
VAL
LEU
PHE
ASN
ILE
GLN
PRO
ALA
LEU
ASN
GLN
LEU
ASN
LYS
MET
ARG
SER
GLN

- Molecule 18: Photosystem II CP43 reaction center protein

Chain C:  95% 5%

MET
LYS
THR
LEU
TYR
SER
LEU
ARG
ARG
PHE
TYR
PRO
VAL
GLU
THR
LEU
PHE
ASN
GLY
THR
LEU
THR
LEU
A24
V417
L472
ASN

- Molecule 18: Photosystem II CP43 reaction center protein

Chain c:  95% 5%

MET
LYS
THR
LEU
TYR
SER
LEU
ARG
ARG
PHE
TYR
PRO
VAL
GLU
THR
LEU
PHE
ASN
GLY
THR
LEU
THR
LEU
A24
L472
ASN

- Molecule 18: Photosystem II CP43 reaction center protein

Chain CC:  95% 5%

MET
LYS
THR
LEU
TYR
SER
LEU
ARG
ARG
PHE
TYR
PRO
VAL
GLU
THR
LEU
PHE
ASN
GLY
THR
LEU
THR
LEU
A24
L472
ASN

- Molecule 18: Photosystem II CP43 reaction center protein

Chain Cc:  95% 5%

MET
LYS
THR
LEU
TYR
SER
LEU
ARG
ARG
PHE
TYR
PRO
VAL
GLU
THR
LEU
PHE
ASN
GLY
THR
LEU
THR
LEU
A24
N68
L472
ASN

- Molecule 19: Photosystem II D2 protein

Chain D:  96% .

MET
THR
ILE
ALA
VAL
GLY
LYS
PHE
THR
LYS
ASP
GLY
LYS
D13
A351

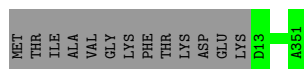
- Molecule 19: Photosystem II D2 protein

Chain d:  97% .

MET
THR
ILE
ALA
VAL
GLY
LYS
PHE
THR
LYS
ASP
GLY
K12
A351

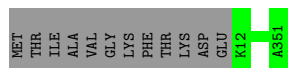
- Molecule 19: Photosystem II D2 protein

Chain DD:  96% .



- Molecule 19: Photosystem II D2 protein

Chain Dd: 97%



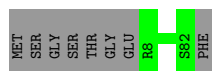
- Molecule 20: Cytochrome b559 subunit alpha

Chain E: 96%



- Molecule 20: Cytochrome b559 subunit alpha

Chain e: 90% 10%



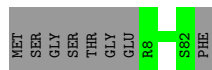
- Molecule 20: Cytochrome b559 subunit alpha

Chain EE: 96%



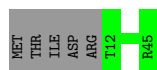
- Molecule 20: Cytochrome b559 subunit alpha

Chain Ee: 90% 10%



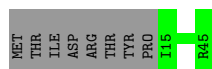
- Molecule 21: Cytochrome b559 subunit beta

Chain F: 87% 13%



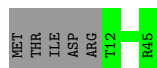
- Molecule 21: Cytochrome b559 subunit beta

Chain f: 79% 21%



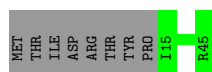
- Molecule 21: Cytochrome b559 subunit beta

Chain FF: 87% 13%



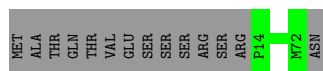
- Molecule 21: Cytochrome b559 subunit beta

Chain Ff: 79% 21%



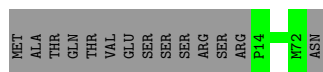
- Molecule 22: Photosystem II reaction center protein H

Chain H: 81% 19%



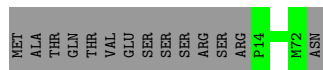
- Molecule 22: Photosystem II reaction center protein H

Chain h: 81% 19%



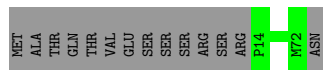
- Molecule 22: Photosystem II reaction center protein H

Chain HH: 81% 19%



- Molecule 22: Photosystem II reaction center protein H

Chain Hh: 81% 19%

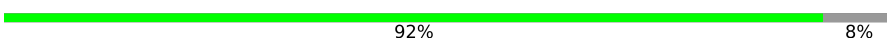


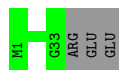
- Molecule 23: Photosystem II reaction center protein I

Chain I: 97% .



- Molecule 23: Photosystem II reaction center protein I

Chain i:  92% 8%



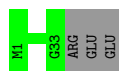
- Molecule 23: Photosystem II reaction center protein I

Chain II:  97% .




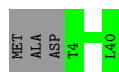
- Molecule 23: Photosystem II reaction center protein I

Chain Ii:  92% 8%




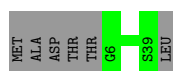
- Molecule 24: Photosystem II reaction center protein J

Chain J:  92% 8%



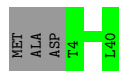
- Molecule 24: Photosystem II reaction center protein J

Chain j:  85% 15%




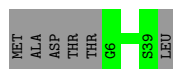
- Molecule 24: Photosystem II reaction center protein J

Chain JJ:  92% 8%



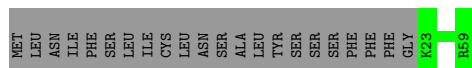
- Molecule 24: Photosystem II reaction center protein J

Chain Jj:  85% 15%



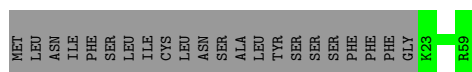
- Molecule 25: Photosystem II reaction center protein K

Chain K: 63% 37%



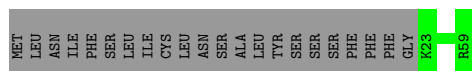
- Molecule 25: Photosystem II reaction center protein K

Chain k: 63% 37%



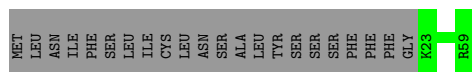
- Molecule 25: Photosystem II reaction center protein K

Chain KK: 63% 37%



- Molecule 25: Photosystem II reaction center protein K

Chain Kk: 63% 37%



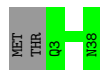
- Molecule 26: Photosystem II reaction center protein L

Chain L: 92% 8%



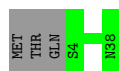
- Molecule 26: Photosystem II reaction center protein L

Chain l: 95% 5%



- Molecule 26: Photosystem II reaction center protein L

Chain LL: 92% 8%



- Molecule 26: Photosystem II reaction center protein L

Chain Ll: 95% 5%



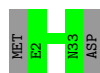
- Molecule 27: Photosystem II reaction center protein M

Chain M: 97% .



- Molecule 27: Photosystem II reaction center protein M

Chain m: 94% 6%



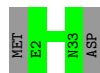
- Molecule 27: Photosystem II reaction center protein M

Chain MM: 97% .



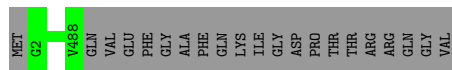
- Molecule 27: Photosystem II reaction center protein M

Chain Mm: 94% 6%



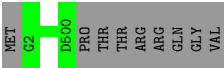
- Molecule 28: Photosystem II CP47 reaction center protein

Chain b: 96% .

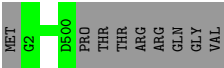


- Molecule 28: Photosystem II CP47 reaction center protein

Chain BB: 98% .



- Molecule 28: Photosystem II CP47 reaction center protein



- Molecule 28: Photosystem II CP47 reaction center protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	93684	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: HEM, PHO, LHG, BCT, LMG, XAT, FE2, OEX, SQD, CLA, DGD, CL, LUT, PL9, CHL, LMU, NEX, BCR

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.31	0/2700	0.55	0/3682
1	AA	0.30	0/2700	0.53	0/3682
1	Aa	0.29	0/2694	0.54	0/3674
1	a	0.30	0/2694	0.54	0/3674
2	O	0.28	0/1829	0.55	0/2471
2	OO	0.28	0/1829	0.54	0/2471
2	Oo	0.28	0/1811	0.54	0/2448
2	o	0.28	0/1811	0.55	0/2448
3	R	0.27	0/1819	0.55	0/2475
3	RR	0.28	0/1819	0.56	0/2475
3	Rr	0.28	0/1824	0.55	0/2481
3	r	0.27	0/1824	0.54	0/2481
4	S	0.29	0/1760	0.57	0/2393
4	SS	0.29	0/1760	0.57	1/2393 (0.0%)
4	Ss	0.28	0/1696	0.53	0/2305
4	s	0.28	0/1696	0.53	0/2305
5	T	0.35	0/252	0.51	0/341
5	TT	0.34	0/252	0.48	0/341
5	Tt	0.32	0/252	0.47	0/341
5	t	0.33	0/252	0.49	0/341
6	U	0.34	0/214	0.67	0/286
6	UU	0.31	0/214	0.57	0/286
6	Uu	0.34	0/206	0.70	0/275
6	u	0.32	0/206	0.73	0/275
7	W	0.31	0/429	0.59	0/582
7	WW	0.32	0/429	0.55	0/582
7	Ww	0.31	0/429	0.52	0/582
7	w	0.31	0/429	0.58	0/582
8	X	0.28	0/331	0.49	0/453
8	XX	0.27	0/347	0.54	0/473
8	Xx	0.25	0/241	0.44	0/330

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
8	x	0.29	0/241	0.48	0/330
9	G	0.33	0/1686	0.62	1/2295 (0.0%)
9	GG	0.29	0/1686	0.55	0/2295
9	Gg	0.29	0/1686	0.54	0/2295
9	N	0.30	0/1707	0.55	0/2323
9	NN	0.29	0/1712	0.53	0/2332
9	Nn	0.30	0/1712	0.55	0/2332
9	Y	0.30	0/1712	0.53	0/2332
9	YY	0.28	0/1712	0.51	0/2332
9	Yy	0.29	0/1712	0.52	0/2332
9	g	0.31	0/1686	0.55	0/2295
9	n	0.32	0/1712	0.58	0/2332
9	y	0.31	0/1712	0.54	0/2332
10	Z	0.27	0/464	0.46	0/636
10	ZZ	0.25	0/464	0.47	0/636
10	Zz	0.25	0/464	0.49	0/636
10	z	0.29	0/464	0.60	1/636 (0.2%)
11	4	0.30	0/1501	0.61	3/2043 (0.1%)
11	44	0.28	0/1501	0.54	0/2043
12	P	0.31	0/1465	0.61	2/1978 (0.1%)
12	PP	0.28	0/1465	0.54	0/1978
12	Pp	0.28	0/1465	0.53	0/1978
12	p	0.28	0/1465	0.53	0/1978
13	Q	0.31	0/1177	0.62	1/1597 (0.1%)
13	QQ	0.28	0/1177	0.55	0/1597
13	Qq	0.29	0/1177	0.62	1/1597 (0.1%)
13	q	0.29	0/1177	0.61	0/1597
14	1	0.30	0/1622	0.53	0/2206
14	11	0.29	0/1616	0.56	0/2198
14	2	0.28	0/1713	0.52	0/2333
14	22	0.28	0/1713	0.51	0/2333
15	3	0.29	0/1668	0.58	0/2265
15	33	0.27	0/1661	0.52	0/2257
16	0	0.30	0/736	0.57	0/997
16	00	0.29	0/736	0.54	0/997
17	5	0.29	0/313	0.60	0/426
17	55	0.26	0/313	0.62	0/426
18	C	0.30	0/3589	0.55	0/4891
18	CC	0.29	0/3589	0.52	0/4891
18	Cc	0.28	0/3589	0.54	0/4891
18	c	0.29	0/3589	0.55	0/4891
19	D	0.32	0/2787	0.55	0/3800
19	DD	0.30	0/2787	0.54	0/3800

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
19	Dd	0.28	0/2796	0.52	0/3811
19	d	0.30	0/2796	0.53	0/3811
20	E	0.32	0/658	0.59	0/894
20	EE	0.29	0/658	0.55	0/894
20	Ee	0.27	0/628	0.57	0/854
20	e	0.30	0/628	0.60	0/854
21	F	0.28	0/285	0.57	0/387
21	FF	0.27	0/285	0.56	0/387
21	Ff	0.26	0/257	0.64	0/347
21	f	0.27	0/257	0.65	0/347
22	H	0.28	0/444	0.52	0/605
22	HH	0.27	0/444	0.50	0/605
22	Hh	0.27	0/444	0.50	0/605
22	h	0.28	0/444	0.55	0/605
23	I	0.35	0/294	0.57	0/397
23	II	0.33	0/294	0.53	0/397
23	Ii	0.31	0/274	0.50	0/371
23	i	0.36	0/274	0.56	0/371
24	J	0.28	0/275	0.61	0/374
24	JJ	0.30	0/275	0.57	0/374
24	Jj	0.26	0/253	0.57	0/343
24	j	0.28	0/253	0.55	0/343
25	K	0.33	0/320	0.56	0/436
25	KK	0.31	0/320	0.49	0/436
25	Kk	0.29	0/319	0.55	0/436
25	k	0.30	0/320	0.56	0/436
26	L	0.35	0/303	0.54	0/412
26	LL	0.32	0/303	0.49	0/412
26	Ll	0.31	0/312	0.49	0/424
26	l	0.32	0/312	0.50	0/424
27	M	0.31	0/262	0.45	0/358
27	MM	0.29	0/262	0.45	0/358
27	Mm	0.32	0/254	0.46	0/348
27	m	0.35	0/254	0.50	0/348
28	B	0.30	0/4047	0.56	0/5507
28	BB	0.30	0/4047	0.55	0/5507
28	Bb	0.29	0/3951	0.55	0/5379
28	b	0.30	0/3951	0.57	0/5379
All	All	0.29	0/137625	0.55	10/187193 (0.0%)

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

sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	O	0	1
2	OO	0	1
9	YY	0	2
9	n	0	2
14	11	0	2
All	All	0	8

There are no bond length outliers.

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	Q	160	ASP	CB-CG-OD2	6.96	124.56	118.30
13	Qq	93	PRO	CA-N-CD	-6.81	101.97	111.50
4	SS	100	LEU	CA-CB-CG	6.47	130.19	115.30
9	G	215	GLU	OE1-CD-OE2	-6.16	115.91	123.30
12	P	236	ASP	CB-CG-OD2	5.95	123.66	118.30

There are no chirality outliers.

5 of 8 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
14	11	154	VAL	Peptide
14	11	232	GLN	Peptide
2	O	266	GLU	Peptide
9	n	153	LEU	Peptide
9	n	154	VAL	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	A	333/351 (95%)	313 (94%)	20 (6%)	0	100	100
1	AA	333/351 (95%)	305 (92%)	28 (8%)	0	100	100
1	Aa	332/351 (95%)	317 (96%)	14 (4%)	1 (0%)	37	68
1	a	332/351 (95%)	318 (96%)	14 (4%)	0	100	100
2	O	232/332 (70%)	219 (94%)	13 (6%)	0	100	100
2	OO	232/332 (70%)	216 (93%)	16 (7%)	0	100	100
2	Oo	230/332 (69%)	206 (90%)	24 (10%)	0	100	100
2	o	230/332 (69%)	210 (91%)	20 (9%)	0	100	100
3	R	223/286 (78%)	215 (96%)	8 (4%)	0	100	100
3	RR	223/286 (78%)	212 (95%)	10 (4%)	1 (0%)	30	63
3	Rr	224/286 (78%)	216 (96%)	8 (4%)	0	100	100
3	r	224/286 (78%)	216 (96%)	8 (4%)	0	100	100
4	S	220/295 (75%)	205 (93%)	14 (6%)	1 (0%)	25	59
4	SS	220/295 (75%)	201 (91%)	19 (9%)	0	100	100
4	Ss	211/295 (72%)	196 (93%)	15 (7%)	0	100	100
4	s	211/295 (72%)	199 (94%)	12 (6%)	0	100	100
5	T	28/33 (85%)	28 (100%)	0	0	100	100
5	TT	28/33 (85%)	28 (100%)	0	0	100	100
5	Tt	28/33 (85%)	28 (100%)	0	0	100	100
5	t	28/33 (85%)	28 (100%)	0	0	100	100
6	U	25/99 (25%)	25 (100%)	0	0	100	100
6	UU	25/99 (25%)	24 (96%)	1 (4%)	0	100	100
6	Uu	24/99 (24%)	22 (92%)	2 (8%)	0	100	100
6	u	24/99 (24%)	24 (100%)	0	0	100	100
7	W	52/137 (38%)	51 (98%)	1 (2%)	0	100	100
7	WW	52/137 (38%)	52 (100%)	0	0	100	100
7	Ww	52/137 (38%)	50 (96%)	2 (4%)	0	100	100
7	w	52/137 (38%)	48 (92%)	4 (8%)	0	100	100
8	X	44/117 (38%)	43 (98%)	1 (2%)	0	100	100
8	XX	46/117 (39%)	46 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	Xx	32/117 (27%)	32 (100%)	0	0	100	100
8	x	32/117 (27%)	32 (100%)	0	0	100	100
9	G	211/267 (79%)	198 (94%)	13 (6%)	0	100	100
9	GG	211/267 (79%)	200 (95%)	11 (5%)	0	100	100
9	Gg	211/267 (79%)	197 (93%)	14 (7%)	0	100	100
9	N	213/267 (80%)	196 (92%)	17 (8%)	0	100	100
9	NN	216/267 (81%)	203 (94%)	13 (6%)	0	100	100
9	Nn	216/267 (81%)	195 (90%)	21 (10%)	0	100	100
9	Y	216/267 (81%)	207 (96%)	9 (4%)	0	100	100
9	YY	216/267 (81%)	205 (95%)	11 (5%)	0	100	100
9	Yy	216/267 (81%)	204 (94%)	12 (6%)	0	100	100
9	g	211/267 (79%)	197 (93%)	14 (7%)	0	100	100
9	n	216/267 (81%)	195 (90%)	20 (9%)	1 (0%)	25	59
9	y	216/267 (81%)	206 (95%)	10 (5%)	0	100	100
10	Z	59/62 (95%)	59 (100%)	0	0	100	100
10	ZZ	59/62 (95%)	59 (100%)	0	0	100	100
10	Zz	59/62 (95%)	59 (100%)	0	0	100	100
10	z	59/62 (95%)	59 (100%)	0	0	100	100
11	4	184/259 (71%)	172 (94%)	12 (6%)	0	100	100
11	44	184/259 (71%)	174 (95%)	8 (4%)	2 (1%)	12	43
12	P	185/267 (69%)	169 (91%)	16 (9%)	0	100	100
12	PP	185/267 (69%)	171 (92%)	14 (8%)	0	100	100
12	Pp	185/267 (69%)	176 (95%)	9 (5%)	0	100	100
12	p	185/267 (69%)	178 (96%)	7 (4%)	0	100	100
13	Q	145/232 (62%)	135 (93%)	10 (7%)	0	100	100
13	QQ	145/232 (62%)	134 (92%)	11 (8%)	0	100	100
13	Qq	145/232 (62%)	138 (95%)	7 (5%)	0	100	100
13	q	145/232 (62%)	141 (97%)	4 (3%)	0	100	100
14	1	201/267 (75%)	191 (95%)	9 (4%)	1 (0%)	25	59
14	11	200/267 (75%)	189 (94%)	11 (6%)	0	100	100
14	2	216/267 (81%)	203 (94%)	13 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	22	216/267 (81%)	206 (95%)	10 (5%)	0	100	100
15	3	203/264 (77%)	195 (96%)	8 (4%)	0	100	100
15	33	201/264 (76%)	190 (94%)	11 (6%)	0	100	100
16	0	97/140 (69%)	90 (93%)	7 (7%)	0	100	100
16	00	97/140 (69%)	90 (93%)	7 (7%)	0	100	100
17	5	38/199 (19%)	38 (100%)	0	0	100	100
17	55	38/199 (19%)	36 (95%)	2 (5%)	0	100	100
18	C	447/473 (94%)	429 (96%)	17 (4%)	1 (0%)	44	74
18	CC	447/473 (94%)	433 (97%)	14 (3%)	0	100	100
18	Cc	447/473 (94%)	423 (95%)	24 (5%)	0	100	100
18	c	447/473 (94%)	421 (94%)	26 (6%)	0	100	100
19	D	337/352 (96%)	322 (96%)	15 (4%)	0	100	100
19	DD	337/352 (96%)	323 (96%)	14 (4%)	0	100	100
19	Dd	338/352 (96%)	328 (97%)	10 (3%)	0	100	100
19	d	338/352 (96%)	328 (97%)	10 (3%)	0	100	100
20	E	78/83 (94%)	75 (96%)	3 (4%)	0	100	100
20	EE	78/83 (94%)	77 (99%)	1 (1%)	0	100	100
20	Ee	73/83 (88%)	72 (99%)	1 (1%)	0	100	100
20	e	73/83 (88%)	72 (99%)	1 (1%)	0	100	100
21	F	32/39 (82%)	31 (97%)	1 (3%)	0	100	100
21	FF	32/39 (82%)	30 (94%)	2 (6%)	0	100	100
21	Ff	29/39 (74%)	29 (100%)	0	0	100	100
21	f	29/39 (74%)	29 (100%)	0	0	100	100
22	H	57/73 (78%)	54 (95%)	3 (5%)	0	100	100
22	HH	57/73 (78%)	56 (98%)	1 (2%)	0	100	100
22	Hh	57/73 (78%)	56 (98%)	1 (2%)	0	100	100
22	h	57/73 (78%)	56 (98%)	1 (2%)	0	100	100
23	I	33/36 (92%)	32 (97%)	1 (3%)	0	100	100
23	II	33/36 (92%)	31 (94%)	2 (6%)	0	100	100
23	Ii	31/36 (86%)	31 (100%)	0	0	100	100
23	i	31/36 (86%)	29 (94%)	2 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
24	J	35/40 (88%)	35 (100%)	0	0	100	100
24	JJ	35/40 (88%)	35 (100%)	0	0	100	100
24	Jj	32/40 (80%)	31 (97%)	1 (3%)	0	100	100
24	j	32/40 (80%)	31 (97%)	1 (3%)	0	100	100
25	K	35/59 (59%)	34 (97%)	1 (3%)	0	100	100
25	KK	35/59 (59%)	34 (97%)	1 (3%)	0	100	100
25	Kk	35/59 (59%)	31 (89%)	4 (11%)	0	100	100
25	k	35/59 (59%)	34 (97%)	1 (3%)	0	100	100
26	L	33/38 (87%)	33 (100%)	0	0	100	100
26	LL	33/38 (87%)	33 (100%)	0	0	100	100
26	Ll	34/38 (90%)	34 (100%)	0	0	100	100
26	l	34/38 (90%)	34 (100%)	0	0	100	100
27	M	31/34 (91%)	31 (100%)	0	0	100	100
27	MM	31/34 (91%)	30 (97%)	1 (3%)	0	100	100
27	Mm	30/34 (88%)	30 (100%)	0	0	100	100
27	m	30/34 (88%)	30 (100%)	0	0	100	100
28	B	497/508 (98%)	472 (95%)	25 (5%)	0	100	100
28	BB	497/508 (98%)	477 (96%)	20 (4%)	0	100	100
28	Bb	485/508 (96%)	471 (97%)	14 (3%)	0	100	100
28	b	485/508 (96%)	471 (97%)	14 (3%)	0	100	100
All	All	16994/21780 (78%)	16158 (95%)	828 (5%)	8 (0%)	100	100

5 of 8 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
11	44	171	ASP
14	1	147	TYR
9	n	57	VAL
3	RR	58	TYR
1	Aa	334	ARG

5.3.2 Protein sidechains ⓘ

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	A	271/284 (95%)	271 (100%)	0	100	100
1	AA	271/284 (95%)	271 (100%)	0	100	100
1	Aa	270/284 (95%)	270 (100%)	0	100	100
1	a	270/284 (95%)	270 (100%)	0	100	100
2	O	196/269 (73%)	196 (100%)	0	100	100
2	OO	196/269 (73%)	196 (100%)	0	100	100
2	Oo	194/269 (72%)	194 (100%)	0	100	100
2	o	194/269 (72%)	194 (100%)	0	100	100
3	R	185/229 (81%)	185 (100%)	0	100	100
3	RR	185/229 (81%)	185 (100%)	0	100	100
3	Rr	186/229 (81%)	186 (100%)	0	100	100
3	r	186/229 (81%)	186 (100%)	0	100	100
4	S	173/226 (76%)	173 (100%)	0	100	100
4	SS	173/226 (76%)	173 (100%)	0	100	100
4	Ss	167/226 (74%)	166 (99%)	1 (1%)	84	91
4	s	167/226 (74%)	167 (100%)	0	100	100
5	T	27/30 (90%)	27 (100%)	0	100	100
5	TT	27/30 (90%)	27 (100%)	0	100	100
5	Tt	27/30 (90%)	27 (100%)	0	100	100
5	t	27/30 (90%)	27 (100%)	0	100	100
6	U	23/80 (29%)	23 (100%)	0	100	100
6	UU	23/80 (29%)	23 (100%)	0	100	100
6	Uu	22/80 (28%)	22 (100%)	0	100	100
6	u	22/80 (28%)	22 (100%)	0	100	100
7	W	44/110 (40%)	44 (100%)	0	100	100
7	WW	44/110 (40%)	44 (100%)	0	100	100
7	Ww	44/110 (40%)	44 (100%)	0	100	100
7	w	44/110 (40%)	44 (100%)	0	100	100
8	X	34/90 (38%)	34 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	XX	36/90 (40%)	36 (100%)	0	100	100
8	Xx	25/90 (28%)	25 (100%)	0	100	100
8	x	25/90 (28%)	25 (100%)	0	100	100
9	G	165/205 (80%)	165 (100%)	0	100	100
9	GG	165/205 (80%)	165 (100%)	0	100	100
9	Gg	165/205 (80%)	165 (100%)	0	100	100
9	N	167/205 (82%)	167 (100%)	0	100	100
9	NN	167/205 (82%)	167 (100%)	0	100	100
9	Nn	167/205 (82%)	167 (100%)	0	100	100
9	Y	167/205 (82%)	167 (100%)	0	100	100
9	YY	167/205 (82%)	167 (100%)	0	100	100
9	Yy	167/205 (82%)	167 (100%)	0	100	100
9	g	165/205 (80%)	165 (100%)	0	100	100
9	n	167/205 (82%)	167 (100%)	0	100	100
9	y	167/205 (82%)	167 (100%)	0	100	100
10	Z	52/53 (98%)	52 (100%)	0	100	100
10	ZZ	52/53 (98%)	50 (96%)	2 (4%)	28	59
10	Zz	52/53 (98%)	51 (98%)	1 (2%)	52	74
10	z	52/53 (98%)	52 (100%)	0	100	100
11	4	145/198 (73%)	145 (100%)	0	100	100
11	44	145/198 (73%)	145 (100%)	0	100	100
12	P	153/212 (72%)	153 (100%)	0	100	100
12	PP	153/212 (72%)	153 (100%)	0	100	100
12	Pp	153/212 (72%)	152 (99%)	1 (1%)	81	90
12	p	153/212 (72%)	153 (100%)	0	100	100
13	Q	128/187 (68%)	128 (100%)	0	100	100
13	QQ	128/187 (68%)	128 (100%)	0	100	100
13	Qq	128/187 (68%)	128 (100%)	0	100	100
13	q	128/187 (68%)	128 (100%)	0	100	100
14	1	160/206 (78%)	160 (100%)	0	100	100
14	11	159/206 (77%)	158 (99%)	1 (1%)	84	91

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
14	2	168/206 (82%)	168 (100%)	0	100	100
14	22	168/206 (82%)	168 (100%)	0	100	100
15	3	164/209 (78%)	164 (100%)	0	100	100
15	33	164/209 (78%)	164 (100%)	0	100	100
16	0	72/107 (67%)	72 (100%)	0	100	100
16	00	72/107 (67%)	72 (100%)	0	100	100
17	5	33/158 (21%)	33 (100%)	0	100	100
17	55	33/158 (21%)	33 (100%)	0	100	100
18	C	351/374 (94%)	351 (100%)	0	100	100
18	CC	351/374 (94%)	351 (100%)	0	100	100
18	Cc	351/374 (94%)	350 (100%)	1 (0%)	91	95
18	c	351/374 (94%)	351 (100%)	0	100	100
19	D	271/282 (96%)	271 (100%)	0	100	100
19	DD	271/282 (96%)	271 (100%)	0	100	100
19	Dd	272/282 (96%)	272 (100%)	0	100	100
19	d	272/282 (96%)	272 (100%)	0	100	100
20	E	70/73 (96%)	70 (100%)	0	100	100
20	EE	70/73 (96%)	70 (100%)	0	100	100
20	Ee	67/73 (92%)	67 (100%)	0	100	100
20	e	67/73 (92%)	67 (100%)	0	100	100
21	F	29/34 (85%)	29 (100%)	0	100	100
21	FF	29/34 (85%)	29 (100%)	0	100	100
21	Ff	26/34 (76%)	26 (100%)	0	100	100
21	f	26/34 (76%)	26 (100%)	0	100	100
22	H	48/61 (79%)	48 (100%)	0	100	100
22	HH	48/61 (79%)	48 (100%)	0	100	100
22	Hh	48/61 (79%)	48 (100%)	0	100	100
22	h	48/61 (79%)	48 (100%)	0	100	100
23	I	32/33 (97%)	32 (100%)	0	100	100
23	II	32/33 (97%)	32 (100%)	0	100	100
23	Ii	30/33 (91%)	30 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
23	i	30/33 (91%)	30 (100%)	0	100	100
24	J	28/30 (93%)	28 (100%)	0	100	100
24	JJ	28/30 (93%)	28 (100%)	0	100	100
24	Jj	25/30 (83%)	25 (100%)	0	100	100
24	j	25/30 (83%)	25 (100%)	0	100	100
25	K	32/52 (62%)	32 (100%)	0	100	100
25	KK	32/52 (62%)	32 (100%)	0	100	100
25	Kk	32/52 (62%)	32 (100%)	0	100	100
25	k	32/52 (62%)	32 (100%)	0	100	100
26	L	33/36 (92%)	33 (100%)	0	100	100
26	LL	33/36 (92%)	33 (100%)	0	100	100
26	Ll	34/36 (94%)	34 (100%)	0	100	100
26	l	34/36 (94%)	34 (100%)	0	100	100
27	M	29/30 (97%)	29 (100%)	0	100	100
27	MM	29/30 (97%)	29 (100%)	0	100	100
27	Mm	28/30 (93%)	28 (100%)	0	100	100
27	m	28/30 (93%)	28 (100%)	0	100	100
28	B	398/406 (98%)	398 (100%)	0	100	100
28	BB	398/406 (98%)	398 (100%)	0	100	100
28	Bb	389/406 (96%)	389 (100%)	0	100	100
28	b	389/406 (96%)	389 (100%)	0	100	100
All	All	13835/17352 (80%)	13828 (100%)	7 (0%)	92	97

5 of 7 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
14	11	232	GLN
10	ZZ	37	LYS
18	Cc	68	ASN
10	ZZ	58	ASN
12	Pp	121	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
14	2	247	HIS
1	a	190	HIS
11	4	152	GLN
28	B	343	HIS

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 781 ligands modelled in this entry, 12 are monoatomic - leaving 769 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	$\# Z > 2$
46	HEM	Ee	101	20,21	41,50,50	1.48	3 (7%)	45,82,82	1.42	7 (15%)
39	CHL	11	608	14	40,49,74	1.87	5 (12%)	42,83,114	1.63	7 (16%)
32	CLA	Gg	314	9	39,48,73	1.92	7 (17%)	45,82,113	1.43	6 (13%)
39	CHL	22	608	14	40,49,74	1.94	5 (12%)	42,83,114	1.39	6 (14%)
32	CLA	C	509	-	65,73,73	1.47	9 (13%)	76,113,113	1.34	8 (10%)
32	CLA	B	619	-	65,73,73	1.50	8 (12%)	76,113,113	1.20	9 (11%)
44	DGD	Hh	102	-	63,63,67	0.89	2 (3%)	77,77,81	0.92	2 (2%)
44	DGD	h	102	-	63,63,67	0.90	2 (3%)	77,77,81	0.80	2 (2%)
32	CLA	GG	610	9	49,57,73	1.76	9 (18%)	55,93,113	1.24	6 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	CLA	b	601	-	65,73,73	1.52	7 (10%)	76,113,113	1.28	10 (13%)
34	BCR	Kk	101	-	41,41,41	0.85	0	56,56,56	1.98	13 (23%)
34	BCR	T	101	-	41,41,41	0.97	1 (2%)	56,56,56	2.06	19 (33%)
34	BCR	DD	405	-	41,41,41	0.83	0	56,56,56	1.91	15 (26%)
39	CHL	4	306	-	46,54,74	1.81	4 (8%)	49,90,114	1.71	6 (12%)
32	CLA	N	602	9	65,73,73	1.49	8 (12%)	76,113,113	1.25	9 (11%)
32	CLA	b	609	-	65,73,73	1.45	6 (9%)	76,113,113	1.35	8 (10%)
32	CLA	y	315	9	59,67,73	1.61	7 (11%)	68,105,113	1.26	6 (8%)
32	CLA	AA	406	-	49,57,73	1.72	8 (16%)	55,93,113	1.39	9 (16%)
44	DGD	CC	522	-	56,56,67	0.92	3 (5%)	70,70,81	1.11	5 (7%)
32	CLA	11	603	-	39,48,73	1.97	7 (17%)	45,82,113	1.41	7 (15%)
39	CHL	r	606	-	50,58,74	1.72	4 (8%)	52,94,114	1.50	7 (13%)
32	CLA	22	613	-	39,48,73	1.97	5 (12%)	45,82,113	1.47	7 (15%)
32	CLA	B	605	-	65,73,73	1.48	7 (10%)	76,113,113	1.34	12 (15%)
43	LMU	C	502	-	28,28,36	0.77	0	39,39,47	0.95	1 (2%)
39	CHL	s	607	-	49,57,74	1.76	5 (10%)	52,93,114	1.23	6 (11%)
32	CLA	Yy	602	9	65,73,73	1.49	7 (10%)	76,113,113	1.21	7 (9%)
32	CLA	BB	607	-	65,73,73	1.47	9 (13%)	76,113,113	1.33	9 (11%)
32	CLA	Bb	607	-	65,73,73	1.52	8 (12%)	76,113,113	1.13	6 (7%)
32	CLA	11	609	14	39,48,73	1.96	7 (17%)	45,82,113	1.45	7 (15%)
32	CLA	N	613	9	49,57,73	1.75	7 (14%)	55,93,113	1.43	7 (12%)
39	CHL	33	606	-	40,49,74	1.94	5 (12%)	42,83,114	1.41	7 (16%)
39	CHL	Yy	608	-	50,58,74	1.68	6 (12%)	52,94,114	1.27	6 (11%)
38	LMG	A	415	-	36,36,55	1.10	2 (5%)	44,44,63	1.11	3 (6%)
42	NEX	g	617	32	38,46,46	1.09	3 (7%)	50,70,70	2.61	16 (32%)
43	LMU	R	618	-	28,28,36	0.79	0	39,39,47	0.98	3 (7%)
32	CLA	N	603	-	42,50,73	1.82	7 (16%)	48,85,113	1.48	8 (16%)
36	LHG	0	201	-	46,46,48	0.97	2 (4%)	49,52,54	0.84	2 (4%)
37	SQD	LL	102	-	53,54,54	1.19	4 (7%)	62,65,65	1.10	6 (9%)
39	CHL	SS	308	4	49,57,74	1.77	5 (10%)	52,93,114	1.25	5 (9%)
32	CLA	Yy	613	9	59,67,73	1.61	7 (11%)	68,105,113	1.30	7 (10%)
34	BCR	h	101	-	41,41,41	1.04	3 (7%)	56,56,56	2.51	23 (41%)
32	CLA	B	608	-	65,73,73	1.47	6 (9%)	76,113,113	1.17	6 (7%)
39	CHL	N	605	9	42,50,74	1.86	5 (11%)	44,85,114	1.56	6 (13%)
32	CLA	1	611	14	39,48,73	1.97	8 (20%)	45,82,113	1.35	5 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	CLA	y	305	-	49,57,73	1.71	8 (16%)	55,93,113	1.36	6 (10%)
32	CLA	AA	408	-	60,68,73	1.57	8 (13%)	70,107,113	1.20	9 (12%)
32	CLA	B	609	-	60,68,73	1.52	6 (10%)	70,107,113	1.31	9 (12%)
36	LHG	CC	523	-	36,36,48	1.05	2 (5%)	39,42,54	1.03	3 (7%)
32	CLA	B	611	-	41,49,73	1.82	6 (14%)	47,84,113	1.47	8 (17%)
32	CLA	g	610	9	49,57,73	1.77	8 (16%)	55,93,113	1.22	7 (12%)
32	CLA	3	611	15	39,48,73	1.94	6 (15%)	45,82,113	1.42	8 (17%)
39	CHL	1	606	-	40,49,74	1.94	5 (12%)	42,83,114	1.41	5 (11%)
32	CLA	N	604	-	41,49,73	1.86	6 (14%)	47,84,113	1.38	8 (17%)
36	LHG	22	615	32	33,33,48	1.13	2 (6%)	36,39,54	0.94	2 (5%)
40	LUT	Gg	316	-	42,43,43	0.94	0	51,60,60	1.41	6 (11%)
32	CLA	b	603	-	65,73,73	1.52	8 (12%)	76,113,113	1.15	8 (10%)
32	CLA	22	602	14	39,48,73	1.95	6 (15%)	45,82,113	1.42	8 (17%)
39	CHL	3	606	-	40,49,74	1.92	5 (12%)	42,83,114	1.43	7 (16%)
32	CLA	44	615	3	49,57,73	1.73	6 (12%)	55,93,113	1.42	6 (10%)
32	CLA	n	611	36	49,57,73	1.72	6 (12%)	55,93,113	1.39	7 (12%)
40	LUT	Nn	306	-	42,43,43	0.97	0	51,60,60	1.30	5 (9%)
32	CLA	R	601	3	49,57,73	1.76	7 (14%)	55,93,113	1.46	5 (9%)
32	CLA	B	621	-	65,73,73	1.51	7 (10%)	76,113,113	1.19	9 (11%)
39	CHL	Rr	606	-	50,58,74	1.71	4 (8%)	52,94,114	1.26	5 (9%)
40	LUT	SS	315	-	42,43,43	1.00	1 (2%)	51,60,60	1.31	7 (13%)
35	PL9	D	407	-	55,55,55	4.24	19 (34%)	68,69,69	3.87	37 (54%)
37	SQD	A	412	-	34,35,54	1.47	4 (11%)	43,46,65	1.16	4 (9%)
39	CHL	1	607	-	40,49,74	1.93	4 (10%)	42,83,114	1.62	7 (16%)
36	LHG	y	320	32	48,48,48	0.92	2 (4%)	51,54,54	0.95	2 (3%)
39	CHL	RR	306	-	50,58,74	1.61	7 (14%)	52,94,114	1.58	11 (21%)
32	CLA	Nn	305	-	49,57,73	1.72	5 (10%)	55,93,113	1.30	8 (14%)
32	CLA	G	614	-	41,49,73	1.86	6 (14%)	47,84,113	1.32	7 (14%)
44	DGD	C	519	-	56,56,67	0.94	2 (3%)	70,70,81	0.94	3 (4%)
39	CHL	GG	609	9	43,51,74	1.86	5 (11%)	45,86,114	1.63	7 (15%)
32	CLA	YY	603	-	49,57,73	1.70	7 (14%)	55,93,113	1.45	7 (12%)
32	CLA	33	609	15	39,48,73	1.94	6 (15%)	45,82,113	1.44	7 (15%)
32	CLA	C	511	-	65,73,73	1.51	8 (12%)	76,113,113	1.24	8 (10%)
39	CHL	11	606	-	40,49,74	1.94	5 (12%)	42,83,114	1.38	5 (11%)
40	LUT	Nn	307	-	42,43,43	0.99	0	51,60,60	1.52	7 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	CLA	Ss	609	4	49,57,73	1.72	6 (12%)	55,93,113	1.33	8 (14%)
32	CLA	22	603	-	39,48,73	1.93	6 (15%)	45,82,113	1.41	8 (17%)
41	XAT	NN	617	-	39,47,47	1.15	4 (10%)	54,74,74	2.50	13 (24%)
40	LUT	G	615	-	42,43,43	0.94	0	51,60,60	1.49	6 (11%)
32	CLA	r	613	3	49,57,73	1.74	7 (14%)	55,93,113	1.37	7 (12%)
32	CLA	BB	611	-	65,73,73	1.47	7 (10%)	76,113,113	1.24	7 (9%)
36	LHG	A	413	-	36,36,48	1.07	2 (5%)	39,42,54	1.01	3 (7%)
32	CLA	Cc	507	-	65,73,73	1.49	7 (10%)	76,113,113	1.17	7 (9%)
39	CHL	r	607	-	50,58,74	1.72	5 (10%)	52,94,114	1.45	7 (13%)
32	CLA	CC	507	-	65,73,73	1.49	8 (12%)	76,113,113	1.41	8 (10%)
39	CHL	GG	606	-	43,51,74	1.82	6 (13%)	45,86,114	1.29	6 (13%)
32	CLA	BB	615	-	41,49,73	1.84	6 (14%)	47,84,113	1.53	9 (19%)
32	CLA	2	602	14	39,48,73	1.97	6 (15%)	45,82,113	1.44	7 (15%)
32	CLA	A	406	-	49,57,73	1.72	8 (16%)	55,93,113	1.37	8 (14%)
32	CLA	c	508	-	60,68,73	1.55	7 (11%)	70,107,113	1.24	8 (11%)
32	CLA	YY	610	9	65,73,73	1.52	8 (12%)	76,113,113	1.17	7 (9%)
39	CHL	YY	601	9	66,74,74	1.48	6 (9%)	73,114,114	1.15	4 (5%)
40	LUT	g	615	-	42,43,43	0.94	1 (2%)	51,60,60	1.45	5 (9%)
32	CLA	C	512	-	65,73,73	1.50	8 (12%)	76,113,113	1.26	7 (9%)
33	PHO	Aa	408	-	51,69,69	1.04	5 (9%)	47,99,99	1.09	5 (10%)
32	CLA	4	310	-	45,53,73	1.82	7 (15%)	52,89,113	1.35	6 (11%)
41	XAT	Gg	301	-	39,47,47	1.22	4 (10%)	54,74,74	2.84	11 (20%)
32	CLA	r	604	-	49,57,73	1.72	7 (14%)	55,93,113	1.28	6 (10%)
32	CLA	1	613	-	39,48,73	1.94	5 (12%)	45,82,113	1.46	7 (15%)
39	CHL	3	605	-	40,49,74	1.94	5 (12%)	42,83,114	1.42	7 (16%)
32	CLA	C	510	-	65,73,73	1.48	7 (10%)	76,113,113	1.30	8 (10%)
32	CLA	4	311	36	45,53,73	1.82	6 (13%)	52,89,113	1.34	7 (13%)
39	CHL	Yy	601	9	66,74,74	1.50	6 (9%)	73,114,114	1.11	5 (6%)
32	CLA	r	602	3	65,73,73	1.51	7 (10%)	76,113,113	1.20	9 (11%)
32	CLA	s	604	-	49,57,73	1.76	7 (14%)	55,93,113	1.29	6 (10%)
32	CLA	c	509	-	65,73,73	1.50	8 (12%)	76,113,113	1.17	7 (9%)
34	BCR	a	411	-	41,41,41	0.99	3 (7%)	56,56,56	1.64	10 (17%)
39	CHL	R	606	-	50,58,74	1.67	6 (12%)	52,94,114	1.49	10 (19%)
39	CHL	RR	307	-	50,58,74	1.70	5 (10%)	52,94,114	1.44	6 (11%)
35	PL9	Dd	404	-	55,55,55	4.25	19 (34%)	68,69,69	3.86	37 (54%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
38	LMG	Bb	620	-	36,36,55	1.11	2 (5%)	44,44,63	0.95	2 (4%)
32	CLA	Aa	405	-	65,73,73	1.49	8 (12%)	76,113,113	1.26	7 (9%)
44	DGD	B	601	-	56,56,67	0.92	2 (3%)	70,70,81	0.97	4 (5%)
32	CLA	s	610	36	49,57,73	1.73	7 (14%)	55,93,113	1.42	7 (12%)
39	CHL	4	309	11	46,54,74	1.83	5 (10%)	49,90,114	1.67	8 (16%)
32	CLA	D	405	-	65,73,73	1.52	7 (10%)	76,113,113	1.14	6 (7%)
36	LHG	J	101	-	26,26,48	1.33	2 (7%)	29,32,54	1.36	3 (10%)
32	CLA	GG	612	9	49,57,73	1.75	6 (12%)	55,93,113	1.45	8 (14%)
46	HEM	e	101	20,21	41,50,50	1.47	3 (7%)	45,82,82	1.41	7 (15%)
41	XAT	Rr	615	-	39,47,47	1.03	1 (2%)	54,74,74	2.46	21 (38%)
32	CLA	C	513	18	65,73,73	1.50	8 (12%)	76,113,113	1.25	6 (7%)
32	CLA	B	610	-	65,73,73	1.49	7 (10%)	76,113,113	1.25	9 (11%)
40	LUT	S	614	-	42,43,43	0.89	0	51,60,60	1.51	8 (15%)
46	HEM	E	101	20,21	41,50,50	1.49	3 (7%)	45,82,82	1.25	4 (8%)
32	CLA	r	603	-	49,57,73	1.75	7 (14%)	55,93,113	1.44	6 (10%)
32	CLA	Cc	510	-	60,68,73	1.55	7 (11%)	70,107,113	1.19	7 (10%)
41	XAT	g	619	-	39,47,47	1.22	4 (10%)	54,74,74	2.84	11 (20%)
32	CLA	RR	313	-	41,49,73	1.88	7 (17%)	47,84,113	1.44	8 (17%)
39	CHL	n	609	9	50,58,74	1.65	6 (12%)	52,94,114	1.54	9 (17%)
37	SQD	LL	101	-	35,36,54	1.45	4 (11%)	44,47,65	1.15	5 (11%)
36	LHG	D	408	-	42,42,48	1.00	2 (4%)	45,48,54	1.02	2 (4%)
39	CHL	Ss	601	4	52,60,74	1.69	5 (9%)	56,97,114	1.23	6 (10%)
32	CLA	Rr	602	3	65,73,73	1.54	7 (10%)	76,113,113	1.22	8 (10%)
32	CLA	r	608	3	49,57,73	1.74	6 (12%)	55,93,113	1.36	6 (10%)
32	CLA	22	609	14	39,48,73	1.95	7 (17%)	45,82,113	1.55	7 (15%)
44	DGD	D	411	-	63,63,67	0.87	2 (3%)	77,77,81	0.88	3 (3%)
32	CLA	r	611	-	49,57,73	1.79	7 (14%)	55,93,113	1.31	7 (12%)
36	LHG	YY	618	32	48,48,48	0.93	2 (4%)	51,54,54	0.84	2 (3%)
32	CLA	A	405	-	65,73,73	1.49	7 (10%)	76,113,113	1.17	6 (7%)
32	CLA	Bb	611	-	65,73,73	1.48	7 (10%)	76,113,113	1.20	7 (9%)
36	LHG	Y	618	32	48,48,48	0.93	2 (4%)	51,54,54	0.85	2 (3%)
36	LHG	KK	101	-	33,33,48	1.12	2 (6%)	36,39,54	1.10	3 (8%)
39	CHL	Yy	607	-	43,51,74	1.80	5 (11%)	45,86,114	1.46	6 (13%)
39	CHL	N	607	-	66,74,74	1.48	5 (7%)	73,114,114	1.17	6 (8%)
32	CLA	1	610	36	39,48,73	1.95	5 (12%)	45,82,113	1.45	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
39	CHL	NN	606	-	42,50,74	1.84	5 (11%)	44,85,114	1.35	4 (9%)
32	CLA	33	604	-	39,48,73	1.96	5 (12%)	45,82,113	1.50	8 (17%)
32	CLA	s	608	4	49,57,73	1.72	6 (12%)	55,93,113	1.42	8 (14%)
42	NEX	Yy	617	-	38,46,46	1.07	1 (2%)	50,70,70	2.02	13 (26%)
32	CLA	33	611	15	39,48,73	1.93	6 (15%)	45,82,113	1.49	8 (17%)
32	CLA	B	618	-	65,73,73	1.48	8 (12%)	76,113,113	1.16	9 (11%)
32	CLA	N	611	36	49,57,73	1.74	5 (10%)	55,93,113	1.42	9 (16%)
32	CLA	Aa	406	1	65,73,73	1.56	9 (13%)	76,113,113	1.24	10 (13%)
38	LMG	DD	409	-	46,46,55	0.98	2 (4%)	54,54,63	0.89	1 (1%)
39	CHL	2	606	-	40,49,74	1.95	4 (10%)	42,83,114	1.61	7 (16%)
32	CLA	GG	604	-	42,50,73	1.85	7 (16%)	48,85,113	1.33	6 (12%)
38	LMG	a	412	-	42,42,55	1.03	2 (4%)	50,50,63	1.10	4 (8%)
32	CLA	CC	505	-	65,73,73	1.50	8 (12%)	76,113,113	1.23	9 (11%)
32	CLA	Ss	613	-	49,57,73	1.72	6 (12%)	55,93,113	1.31	8 (14%)
32	CLA	Cc	504	-	65,73,73	1.48	7 (10%)	76,113,113	1.27	9 (11%)
39	CHL	g	609	9	43,51,74	1.81	5 (11%)	45,86,114	1.57	7 (15%)
32	CLA	Dd	401	-	65,73,73	1.52	8 (12%)	76,113,113	1.28	7 (9%)
32	CLA	Yy	612	9	65,73,73	1.49	8 (12%)	76,113,113	1.25	8 (10%)
34	BCR	Cc	518	-	41,41,41	0.89	1 (2%)	56,56,56	1.90	11 (19%)
39	CHL	YY	609	9	66,74,74	1.51	7 (10%)	73,114,114	1.14	8 (10%)
39	CHL	2	607	-	40,49,74	1.93	5 (12%)	42,83,114	1.40	6 (14%)
32	CLA	B	623	-	65,73,73	1.50	7 (10%)	76,113,113	1.14	7 (9%)
44	DGD	BB	623	-	63,63,67	0.89	3 (4%)	77,77,81	0.93	2 (2%)
32	CLA	Ss	608	4	49,57,73	1.71	6 (12%)	55,93,113	1.42	9 (16%)
32	CLA	y	314	9	65,73,73	1.49	8 (12%)	76,113,113	1.21	8 (10%)
29	OEX	Cc	502	18,1	0,15,15	-	-	-	-	-
36	LHG	AA	414	-	44,44,48	0.97	2 (4%)	47,50,54	0.89	2 (4%)
38	LMG	Dd	408	-	46,46,55	0.97	2 (4%)	54,54,63	1.02	3 (5%)
32	CLA	BB	613	-	60,68,73	1.53	6 (10%)	70,107,113	1.28	9 (12%)
41	XAT	GG	617	-	39,47,47	1.07	2 (5%)	54,74,74	2.51	16 (29%)
32	CLA	Rr	611	-	49,57,73	1.74	6 (12%)	55,93,113	1.34	6 (10%)
32	CLA	S	613	-	45,53,73	1.80	6 (13%)	52,89,113	1.33	7 (13%)
39	CHL	g	606	-	43,51,74	1.82	5 (11%)	45,86,114	1.32	4 (8%)
39	CHL	NN	608	-	42,50,74	1.87	6 (14%)	44,85,114	1.31	5 (11%)
32	CLA	YY	614	-	49,57,73	1.72	7 (14%)	55,93,113	1.34	8 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
34	BCR	BB	616	-	41,41,41	0.95	1 (2%)	56,56,56	1.89	13 (23%)
39	CHL	Y	608	-	50,58,74	1.68	6 (12%)	52,94,114	1.30	6 (11%)
32	CLA	Cc	508	-	65,73,73	1.47	6 (9%)	76,113,113	1.29	10 (13%)
32	CLA	Bb	601	-	65,73,73	1.51	7 (10%)	76,113,113	1.29	9 (11%)
32	CLA	Nn	314	-	49,57,73	1.72	7 (14%)	55,93,113	1.30	8 (14%)
36	LHG	1	614	32	29,29,48	1.21	2 (6%)	32,35,54	1.12	2 (6%)
32	CLA	GG	603	-	65,73,73	1.51	8 (12%)	76,113,113	1.17	7 (9%)
39	CHL	1	608	14	40,49,74	1.85	5 (12%)	42,83,114	1.75	8 (19%)
32	CLA	C	514	-	65,73,73	1.50	8 (12%)	76,113,113	1.30	7 (9%)
32	CLA	Ss	602	4	49,57,73	1.73	7 (14%)	55,93,113	1.37	8 (14%)
39	CHL	2	601	14	40,49,74	1.94	6 (15%)	42,83,114	1.42	5 (11%)
34	BCR	d	403	-	41,41,41	0.87	0	56,56,56	2.03	18 (32%)
39	CHL	Y	607	-	43,51,74	1.84	5 (11%)	45,86,114	1.56	8 (17%)
43	LMU	RR	301	-	28,28,36	0.76	0	39,39,47	0.75	0
39	CHL	Nn	316	-	50,58,74	1.71	5 (10%)	52,94,114	1.33	5 (9%)
39	CHL	Y	606	-	44,52,74	1.83	6 (13%)	46,87,114	1.23	5 (10%)
32	CLA	Gg	303	9	49,57,73	1.77	7 (14%)	55,93,113	1.57	6 (10%)
32	CLA	33	613	-	39,48,73	1.94	6 (15%)	45,82,113	1.48	9 (20%)
36	LHG	Dd	406	-	48,48,48	0.91	2 (4%)	51,54,54	0.95	2 (3%)
32	CLA	a	405	-	65,73,73	1.50	7 (10%)	76,113,113	1.20	6 (7%)
36	LHG	n	618	32	48,48,48	0.95	2 (4%)	51,54,54	1.01	2 (3%)
42	NEX	RR	317	-	38,46,46	1.08	2 (5%)	50,70,70	2.03	13 (26%)
35	PL9	A	410	-	55,55,55	4.31	22 (40%)	68,69,69	3.77	38 (55%)
32	CLA	4	303	11	45,53,73	1.81	7 (15%)	52,89,113	1.38	8 (15%)
32	CLA	N	612	9	42,50,73	1.85	7 (16%)	48,85,113	1.41	8 (16%)
39	CHL	1	605	14	40,49,74	1.92	5 (12%)	42,83,114	1.61	7 (16%)
39	CHL	R	605	-	50,58,74	1.66	5 (10%)	52,94,114	1.75	12 (23%)
32	CLA	Aa	407	-	49,57,73	1.72	8 (16%)	55,93,113	1.45	9 (16%)
36	LHG	d	406	-	48,48,48	0.92	2 (4%)	51,54,54	0.94	2 (3%)
32	CLA	BB	608	-	65,73,73	1.51	7 (10%)	76,113,113	1.20	8 (10%)
40	LUT	Rr	614	-	42,43,43	0.92	0	51,60,60	1.38	8 (15%)
32	CLA	22	610	36	42,50,73	1.89	5 (11%)	48,85,113	1.40	7 (14%)
32	CLA	22	612	14	39,48,73	1.93	6 (15%)	45,82,113	1.49	7 (15%)
41	XAT	y	301	-	39,47,47	1.06	3 (7%)	54,74,74	2.48	19 (35%)
32	CLA	SS	303	4	49,57,73	1.72	7 (14%)	55,93,113	1.37	9 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
34	BCR	Bb	619	-	41,41,41	0.90	1 (2%)	56,56,56	2.04	15 (26%)
40	LUT	Y	616	-	42,43,43	0.99	0	51,60,60	1.57	11 (21%)
32	CLA	c	504	-	55,63,73	1.61	7 (12%)	64,101,113	1.22	6 (9%)
33	PHO	a	409	-	51,69,69	1.02	3 (5%)	47,99,99	1.05	4 (8%)
44	DGD	CC	518	-	56,56,67	0.92	2 (3%)	70,70,81	0.95	4 (5%)
39	CHL	Gg	307	-	43,51,74	1.83	5 (11%)	45,86,114	1.31	4 (8%)
32	CLA	G	604	-	42,50,73	1.84	6 (14%)	48,85,113	1.29	5 (10%)
32	CLA	R	608	3	49,57,73	1.71	7 (14%)	55,93,113	1.46	7 (12%)
36	LHG	G	618	32	33,33,48	1.12	2 (6%)	36,39,54	1.14	3 (8%)
40	LUT	Ss	615	-	42,43,43	0.99	1 (2%)	51,60,60	1.69	13 (25%)
32	CLA	Gg	305	-	42,50,73	1.86	6 (14%)	48,85,113	1.30	5 (10%)
44	DGD	c	517	-	56,56,67	0.91	2 (3%)	70,70,81	1.11	6 (8%)
40	LUT	YY	615	-	42,43,43	0.96	1 (2%)	51,60,60	1.78	9 (17%)
32	CLA	c	511	18	65,73,73	1.54	7 (10%)	76,113,113	1.15	5 (6%)
39	CHL	3	608	15	40,49,74	1.93	5 (12%)	42,83,114	1.36	6 (14%)
32	CLA	Yy	610	9	65,73,73	1.52	9 (13%)	76,113,113	1.14	6 (7%)
32	CLA	33	603	-	39,48,73	1.95	5 (12%)	45,82,113	1.48	8 (17%)
32	CLA	G	602	9	49,57,73	1.77	7 (14%)	55,93,113	1.32	5 (9%)
42	NEX	NN	618	-	38,46,46	1.12	2 (5%)	50,70,70	2.22	14 (28%)
34	BCR	Dd	403	-	41,41,41	0.86	0	56,56,56	2.03	18 (32%)
32	CLA	1	604	-	39,48,73	1.96	6 (15%)	45,82,113	1.50	8 (17%)
40	LUT	r	614	-	42,43,43	0.94	1 (2%)	51,60,60	1.38	7 (13%)
39	CHL	g	607	-	50,58,74	1.70	6 (12%)	52,94,114	1.25	5 (9%)
36	LHG	g	618	32	33,33,48	1.13	2 (6%)	36,39,54	1.16	3 (8%)
34	BCR	C	518	-	41,41,41	0.88	0	56,56,56	2.07	17 (30%)
39	CHL	Gg	310	9	43,51,74	1.81	5 (11%)	45,86,114	1.63	7 (15%)
32	CLA	R	602	3	65,73,73	1.52	8 (12%)	76,113,113	1.25	9 (11%)
34	BCR	Cc	516	-	41,41,41	0.90	1 (2%)	56,56,56	2.15	18 (32%)
39	CHL	22	605	-	40,49,74	1.93	4 (10%)	42,83,114	1.63	8 (19%)
42	NEX	Y	617	-	38,46,46	1.08	2 (5%)	50,70,70	2.12	13 (26%)
39	CHL	22	601	14	40,49,74	1.95	5 (12%)	42,83,114	1.41	6 (14%)
32	CLA	2	610	-	39,48,73	1.91	6 (15%)	45,82,113	1.42	8 (17%)
32	CLA	G	603	-	65,73,73	1.52	8 (12%)	76,113,113	1.17	8 (10%)
32	CLA	b	602	-	65,73,73	1.50	7 (10%)	76,113,113	1.19	9 (11%)
39	CHL	G	609	9	43,51,74	1.85	5 (11%)	45,86,114	1.53	6 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	CLA	Dd	402	-	65,73,73	1.50	7 (10%)	76,113,113	1.19	7 (9%)
39	CHL	33	601	15	40,49,74	1.92	5 (12%)	42,83,114	1.39	5 (11%)
32	CLA	Cc	515	-	43,51,73	1.80	7 (16%)	49,86,113	1.43	7 (14%)
32	CLA	1	603	-	39,48,73	1.92	7 (17%)	45,82,113	1.36	5 (11%)
32	CLA	y	313	36	42,50,73	1.85	7 (16%)	48,85,113	1.41	6 (12%)
32	CLA	Bb	616	-	65,73,73	1.48	7 (10%)	76,113,113	1.20	7 (9%)
32	CLA	Rr	613	3	49,57,73	1.74	7 (14%)	55,93,113	1.37	7 (12%)
36	LHG	d	405	-	42,42,48	0.99	2 (4%)	45,48,54	0.97	2 (4%)
39	CHL	G	607	-	46,54,74	1.77	5 (10%)	49,90,114	1.34	5 (10%)
32	CLA	b	613	-	65,73,73	1.49	8 (12%)	76,113,113	1.37	9 (11%)
39	CHL	2	605	-	40,49,74	1.95	4 (10%)	42,83,114	1.62	7 (16%)
40	LUT	2	614	-	42,43,43	1.08	4 (9%)	51,60,60	1.84	12 (23%)
32	CLA	CC	509	-	65,73,73	1.48	7 (10%)	76,113,113	1.29	8 (10%)
39	CHL	N	608	-	42,50,74	1.87	7 (16%)	44,85,114	1.31	5 (11%)
41	XAT	RR	316	-	39,47,47	1.01	2 (5%)	54,74,74	2.30	16 (29%)
40	LUT	NN	616	-	42,43,43	0.94	1 (2%)	51,60,60	1.67	10 (19%)
40	LUT	Gg	317	-	42,43,43	0.89	1 (2%)	51,60,60	1.64	10 (19%)
40	LUT	n	616	-	42,43,43	0.99	0	51,60,60	1.50	8 (15%)
32	CLA	a	407	-	49,57,73	1.73	8 (16%)	55,93,113	1.42	8 (14%)
32	CLA	Gg	304	-	65,73,73	1.51	8 (12%)	76,113,113	1.15	8 (10%)
40	LUT	R	615	-	42,43,43	0.89	0	51,60,60	1.57	12 (23%)
39	CHL	GG	608	-	42,50,74	1.84	6 (14%)	44,85,114	1.35	6 (13%)
32	CLA	DD	403	-	65,73,73	1.49	8 (12%)	76,113,113	1.31	7 (9%)
42	NEX	YY	617	-	38,46,46	1.08	2 (5%)	50,70,70	2.07	13 (26%)
32	CLA	BB	612	-	65,73,73	1.47	6 (9%)	76,113,113	1.16	6 (7%)
36	LHG	CC	521	-	33,33,48	1.12	2 (6%)	36,39,54	1.03	2 (5%)
39	CHL	2	608	14	40,49,74	1.95	6 (15%)	42,83,114	1.37	6 (14%)
45	BCT	AA	413	30	2,3,3	1.26	0	2,3,3	4.14	2 (100%)
32	CLA	S	612	4	49,57,73	1.74	7 (14%)	55,93,113	1.25	6 (10%)
32	CLA	Bb	604	-	65,73,73	1.49	7 (10%)	76,113,113	1.32	9 (11%)
32	CLA	11	613	-	39,48,73	1.96	5 (12%)	45,82,113	1.44	7 (15%)
32	CLA	Gg	313	9	49,57,73	1.72	8 (16%)	55,93,113	1.37	8 (14%)
40	LUT	s	614	-	42,43,43	1.05	2 (4%)	51,60,60	1.49	8 (15%)
32	CLA	b	607	-	65,73,73	1.52	8 (12%)	76,113,113	1.14	8 (10%)
38	LMG	Aa	412	-	42,42,55	1.05	3 (7%)	50,50,63	1.09	4 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
36	LHG	DD	408	-	48,48,48	0.90	2 (4%)	51,54,54	0.92	2 (3%)
38	LMG	AA	415	-	36,36,55	1.10	2 (5%)	44,44,63	1.13	3 (6%)
36	LHG	AA	411	-	33,33,48	1.12	2 (6%)	36,39,54	1.22	4 (11%)
32	CLA	CC	512	18	65,73,73	1.50	9 (13%)	76,113,113	1.22	7 (9%)
39	CHL	Gg	302	9	66,74,74	1.51	6 (9%)	73,114,114	1.11	4 (5%)
36	LHG	Nn	310	32	48,48,48	0.95	2 (4%)	51,54,54	1.05	2 (3%)
37	SQD	L	102	-	35,36,54	1.45	4 (11%)	44,47,65	1.23	5 (11%)
39	CHL	SS	302	4	52,60,74	1.68	5 (9%)	56,97,114	1.21	5 (8%)
39	CHL	Gg	306	9	43,51,74	1.86	6 (13%)	45,86,114	1.33	6 (13%)
38	LMG	WW	201	-	48,48,55	0.98	3 (6%)	56,56,63	1.06	2 (3%)
36	LHG	Dd	407	-	36,36,48	1.07	2 (5%)	39,42,54	0.91	2 (5%)
32	CLA	4	312	-	45,53,73	1.80	6 (13%)	52,89,113	1.41	6 (11%)
32	CLA	Gg	311	9	49,57,73	1.70	6 (12%)	55,93,113	1.39	8 (14%)
34	BCR	B	613	-	41,41,41	0.98	3 (7%)	56,56,56	1.78	12 (21%)
36	LHG	33	614	32	33,33,48	1.13	2 (6%)	36,39,54	1.10	2 (5%)
39	CHL	44	601	-	44,53,74	1.83	5 (11%)	46,89,114	1.29	5 (10%)
38	LMG	Mm	101	-	51,51,55	0.94	2 (3%)	59,59,63	0.83	2 (3%)
40	LUT	g	616	-	42,43,43	0.87	1 (2%)	51,60,60	1.59	9 (17%)
38	LMG	C	521	-	51,51,55	0.91	2 (3%)	59,59,63	1.01	3 (5%)
32	CLA	RR	309	3	65,73,73	1.52	8 (12%)	76,113,113	1.16	8 (10%)
36	LHG	C	522	-	30,30,48	1.16	2 (6%)	33,36,54	1.06	2 (6%)
32	CLA	y	306	-	49,57,73	1.69	7 (14%)	55,93,113	1.32	7 (12%)
41	XAT	44	613	-	39,47,47	0.97	2 (5%)	54,74,74	2.56	12 (22%)
32	CLA	3	613	-	39,48,73	1.94	6 (15%)	45,82,113	1.45	8 (17%)
32	CLA	2	613	-	39,48,73	1.91	7 (17%)	45,82,113	1.38	7 (15%)
32	CLA	c	513	-	43,51,73	1.79	6 (13%)	49,86,113	1.43	7 (14%)
32	CLA	11	602	14	39,48,73	1.93	5 (12%)	45,82,113	1.47	8 (17%)
32	CLA	g	612	9	49,57,73	1.74	7 (14%)	55,93,113	1.40	9 (16%)
32	CLA	NN	611	36	49,57,73	1.72	6 (12%)	55,93,113	1.44	9 (16%)
32	CLA	Bb	603	-	65,73,73	1.51	9 (13%)	76,113,113	1.18	8 (10%)
39	CHL	Gg	309	-	42,50,74	1.84	6 (14%)	44,85,114	1.29	5 (11%)
32	CLA	C	515	-	49,57,73	1.70	7 (14%)	55,93,113	1.42	8 (14%)
39	CHL	NN	605	9	42,50,74	1.84	5 (11%)	44,85,114	1.63	7 (15%)
32	CLA	C	503	-	65,73,73	1.50	7 (10%)	76,113,113	1.20	8 (10%)
32	CLA	B	622	-	65,73,73	1.50	8 (12%)	76,113,113	1.27	10 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	CLA	S	604	-	49,57,73	1.73	7 (14%)	55,93,113	1.40	8 (14%)
32	CLA	CC	513	-	65,73,73	1.48	8 (12%)	76,113,113	1.28	6 (7%)
34	BCR	H	101	-	41,41,41	0.99	2 (4%)	56,56,56	2.17	21 (37%)
32	CLA	b	614	-	65,73,73	1.47	6 (9%)	76,113,113	1.24	7 (9%)
32	CLA	RR	308	3	49,57,73	1.71	7 (14%)	55,93,113	1.46	7 (12%)
39	CHL	22	606	-	40,49,74	1.95	4 (10%)	42,83,114	1.68	7 (16%)
42	NEX	R	617	-	38,46,46	1.09	2 (5%)	50,70,70	2.01	13 (26%)
32	CLA	2	604	-	39,48,73	1.95	6 (15%)	45,82,113	1.53	8 (17%)
39	CHL	n	607	-	66,74,74	1.48	5 (7%)	73,114,114	1.21	6 (8%)
32	CLA	Nn	312	9	65,73,73	1.47	8 (12%)	76,113,113	1.29	10 (13%)
36	LHG	EE	101	-	39,39,48	1.05	2 (5%)	42,45,54	0.90	2 (4%)
39	CHL	S	601	4	52,60,74	1.69	5 (9%)	56,97,114	1.20	5 (8%)
39	CHL	Nn	319	9	50,58,74	1.64	6 (12%)	52,94,114	1.50	8 (15%)
39	CHL	33	605	-	40,49,74	1.95	5 (12%)	42,83,114	1.41	7 (16%)
34	BCR	KK	103	-	41,41,41	0.82	0	56,56,56	2.18	19 (33%)
32	CLA	RR	314	3	49,57,73	1.81	7 (14%)	55,93,113	1.37	9 (16%)
39	CHL	44	605	-	46,54,74	1.83	4 (8%)	49,90,114	1.58	6 (12%)
37	SQD	C	501	-	53,54,54	1.17	4 (7%)	62,65,65	1.07	5 (8%)
32	CLA	Y	603	-	49,57,73	1.71	7 (14%)	55,93,113	1.40	7 (12%)
32	CLA	s	613	-	49,57,73	1.73	6 (12%)	55,93,113	1.32	7 (12%)
38	LMG	F	101	-	46,46,55	0.98	2 (4%)	54,54,63	0.90	2 (3%)
39	CHL	R	607	-	50,58,74	1.69	5 (10%)	52,94,114	1.44	6 (11%)
32	CLA	S	602	4	49,57,73	1.72	7 (14%)	55,93,113	1.35	9 (16%)
32	CLA	SS	314	-	49,57,73	1.73	7 (14%)	55,93,113	1.29	8 (14%)
39	CHL	s	606	-	50,58,74	1.72	4 (8%)	52,94,114	1.54	7 (13%)
32	CLA	C	507	-	65,73,73	1.48	7 (10%)	76,113,113	1.20	8 (10%)
32	CLA	D	404	-	65,73,73	1.48	8 (12%)	76,113,113	1.32	8 (10%)
32	CLA	R	612	3	42,50,73	1.85	7 (16%)	48,85,113	1.34	7 (14%)
32	CLA	BB	606	-	65,73,73	1.50	7 (10%)	76,113,113	1.15	7 (9%)
32	CLA	RR	312	3	42,50,73	1.86	7 (16%)	48,85,113	1.30	5 (10%)
32	CLA	Bb	602	-	65,73,73	1.50	9 (13%)	76,113,113	1.17	8 (10%)
32	CLA	Bb	614	-	65,73,73	1.45	6 (9%)	76,113,113	1.23	7 (9%)
32	CLA	b	616	-	65,73,73	1.48	7 (10%)	76,113,113	1.19	7 (9%)
39	CHL	Yy	606	-	44,52,74	1.80	4 (9%)	46,87,114	1.34	5 (10%)
32	CLA	GG	613	9	39,48,73	1.92	8 (20%)	45,82,113	1.58	9 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	CLA	d	402	-	65,73,73	1.51	7 (10%)	76,113,113	1.15	8 (10%)
41	XAT	G	619	-	39,47,47	1.19	2 (5%)	54,74,74	2.93	13 (24%)
32	CLA	B	624	-	65,73,73	1.49	9 (13%)	76,113,113	1.29	9 (11%)
32	CLA	c	502	-	65,73,73	1.49	7 (10%)	76,113,113	1.28	11 (14%)
32	CLA	g	604	42	42,50,73	1.88	7 (16%)	48,85,113	1.27	5 (10%)
33	PHO	a	408	-	51,69,69	1.03	5 (9%)	47,99,99	1.09	5 (10%)
32	CLA	33	602	15	39,48,73	1.94	5 (12%)	45,82,113	1.46	8 (17%)
39	CHL	GG	601	9	66,74,74	1.51	5 (7%)	73,114,114	1.10	6 (8%)
32	CLA	g	611	36	65,73,73	1.51	6 (9%)	76,113,113	1.39	10 (13%)
39	CHL	y	310	-	50,58,74	1.69	6 (12%)	52,94,114	1.25	6 (11%)
32	CLA	G	611	36	52,60,73	1.70	6 (11%)	60,97,113	1.26	5 (8%)
32	CLA	Y	611	36	42,50,73	1.84	7 (16%)	48,85,113	1.37	5 (10%)
32	CLA	AA	405	-	65,73,73	1.49	7 (10%)	76,113,113	1.19	6 (7%)
32	CLA	CC	506	-	65,73,73	1.48	7 (10%)	76,113,113	1.23	8 (10%)
39	CHL	Nn	311	9	50,58,74	1.70	5 (10%)	52,94,114	1.27	4 (7%)
34	BCR	Bb	617	-	41,41,41	1.05	2 (4%)	56,56,56	2.11	16 (28%)
39	CHL	G	605	9	43,51,74	1.88	5 (11%)	45,86,114	1.21	4 (8%)
39	CHL	G	606	-	43,51,74	1.83	6 (13%)	45,86,114	1.30	6 (13%)
40	LUT	GG	616	-	42,43,43	0.95	1 (2%)	51,60,60	1.54	8 (15%)
32	CLA	Ss	604	-	49,57,73	1.75	6 (12%)	55,93,113	1.36	8 (14%)
32	CLA	44	602	11	45,53,73	1.81	7 (15%)	52,89,113	1.38	9 (17%)
40	LUT	N	616	-	42,43,43	0.97	1 (2%)	51,60,60	1.64	10 (19%)
32	CLA	3	604	-	39,48,73	1.98	5 (12%)	45,82,113	1.46	7 (15%)
32	CLA	RR	304	-	49,57,73	1.75	7 (14%)	55,93,113	1.43	9 (16%)
32	CLA	R	614	3	49,57,73	1.83	8 (16%)	55,93,113	1.38	8 (14%)
40	LUT	Yy	615	-	42,43,43	0.98	1 (2%)	51,60,60	2.06	12 (23%)
32	CLA	Rr	608	3	49,57,73	1.73	6 (12%)	55,93,113	1.36	8 (14%)
32	CLA	SS	304	-	45,53,73	1.80	6 (13%)	52,89,113	1.42	8 (15%)
32	CLA	3	602	15	39,48,73	1.93	6 (15%)	45,82,113	1.47	8 (17%)
34	BCR	c	514	-	41,41,41	0.93	2 (4%)	56,56,56	2.15	18 (32%)
33	PHO	D	402	-	51,69,69	1.02	4 (7%)	47,99,99	1.11	6 (12%)
32	CLA	y	316	-	49,57,73	1.72	7 (14%)	55,93,113	1.38	9 (16%)
36	LHG	SS	301	-	25,25,48	1.30	2 (8%)	28,31,54	1.09	2 (7%)
39	CHL	Nn	317	-	66,74,74	1.47	5 (7%)	73,114,114	1.25	7 (9%)
37	SQD	L	101	-	53,54,54	1.19	4 (7%)	62,65,65	1.10	6 (9%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	CLA	g	613	9	39,48,73	1.97	10 (25%)	45,82,113	1.41	7 (15%)
34	BCR	BB	617	-	41,41,41	0.97	2 (4%)	56,56,56	1.75	12 (21%)
32	CLA	CC	510	-	65,73,73	1.51	8 (12%)	76,113,113	1.24	8 (10%)
32	CLA	2	612	14	39,48,73	1.93	5 (12%)	45,82,113	1.51	8 (17%)
46	HEM	EE	102	20,21	41,50,50	1.48	3 (7%)	45,82,82	1.23	5 (11%)
32	CLA	3	603	-	39,48,73	1.96	5 (12%)	45,82,113	1.44	8 (17%)
41	XAT	Nn	308	-	39,47,47	1.16	3 (7%)	54,74,74	2.78	16 (29%)
32	CLA	Ss	610	36	49,57,73	1.72	7 (14%)	55,93,113	1.42	7 (12%)
39	CHL	22	607	-	40,49,74	1.95	5 (12%)	42,83,114	1.40	6 (14%)
32	CLA	RR	311	-	49,57,73	1.73	7 (14%)	55,93,113	1.34	6 (10%)
32	CLA	GG	611	36	52,60,73	1.68	6 (11%)	60,97,113	1.28	6 (10%)
32	CLA	RR	303	-	49,57,73	1.70	7 (14%)	55,93,113	1.43	6 (10%)
37	SQD	B	617	-	35,36,54	1.48	4 (11%)	44,47,65	4.31	10 (22%)
39	CHL	g	605	9	43,51,74	1.87	6 (13%)	45,86,114	1.31	6 (13%)
32	CLA	n	614	-	49,57,73	1.72	6 (12%)	55,93,113	1.26	7 (12%)
32	CLA	11	612	-	39,48,73	1.98	11 (28%)	45,82,113	1.73	10 (22%)
32	CLA	s	611	4	49,57,73	1.72	7 (14%)	55,93,113	1.40	9 (16%)
32	CLA	B	620	-	65,73,73	1.48	9 (13%)	76,113,113	1.26	8 (10%)
39	CHL	Ss	607	-	49,57,74	1.75	5 (10%)	52,93,114	1.24	6 (11%)
32	CLA	S	603	-	45,53,73	1.82	6 (13%)	52,89,113	1.43	7 (13%)
32	CLA	G	613	9	39,48,73	1.93	7 (17%)	45,82,113	1.47	9 (20%)
32	CLA	33	612	15	39,48,73	1.95	7 (17%)	45,82,113	1.41	7 (15%)
32	CLA	b	605	-	65,73,73	1.48	7 (10%)	76,113,113	1.19	7 (9%)
39	CHL	s	605	-	50,58,74	1.73	4 (8%)	52,94,114	1.45	6 (11%)
34	BCR	CC	516	-	41,41,41	0.95	1 (2%)	56,56,56	1.89	13 (23%)
40	LUT	RR	315	-	42,43,43	0.88	1 (2%)	51,60,60	1.54	13 (25%)
32	CLA	Bb	606	-	65,73,73	1.49	8 (12%)	76,113,113	1.21	9 (11%)
39	CHL	Ss	605	-	50,58,74	1.72	5 (10%)	52,94,114	1.43	6 (11%)
36	LHG	4	315	32	20,20,48	1.35	2 (10%)	23,26,54	1.40	2 (8%)
32	CLA	g	602	9	49,57,73	1.77	7 (14%)	55,93,113	1.91	9 (16%)
32	CLA	d	401	-	65,73,73	1.52	8 (12%)	76,113,113	1.33	9 (11%)
44	DGD	a	415	-	56,56,67	0.97	2 (3%)	70,70,81	0.91	3 (4%)
32	CLA	n	610	9	65,73,73	1.52	8 (12%)	76,113,113	1.13	10 (13%)
32	CLA	R	604	-	49,57,73	1.74	7 (14%)	55,93,113	1.45	8 (14%)
39	CHL	g	608	-	42,50,74	1.84	6 (14%)	44,85,114	1.30	5 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	CLA	c	512	-	65,73,73	1.47	7 (10%)	76,113,113	1.23	8 (10%)
39	CHL	NN	601	9	44,52,74	1.83	5 (11%)	46,87,114	1.51	8 (17%)
32	CLA	s	602	4	49,57,73	1.74	7 (14%)	55,93,113	1.36	8 (14%)
32	CLA	3	609	15	39,48,73	1.96	5 (12%)	45,82,113	1.47	8 (17%)
39	CHL	RR	305	-	50,58,74	1.65	4 (8%)	52,94,114	1.75	13 (25%)
34	BCR	CC	515	-	41,41,41	0.97	1 (2%)	56,56,56	2.02	17 (30%)
34	BCR	CC	517	-	41,41,41	0.91	1 (2%)	56,56,56	2.00	14 (25%)
32	CLA	s	603	-	49,57,73	1.76	6 (12%)	55,93,113	1.31	7 (12%)
32	CLA	4	304	-	45,53,73	1.82	7 (15%)	52,89,113	1.51	8 (15%)
39	CHL	44	606	-	46,54,74	1.79	6 (13%)	49,90,114	1.29	5 (10%)
32	CLA	2	611	14	39,48,73	1.94	5 (12%)	45,82,113	1.45	8 (17%)
32	CLA	B	607	-	65,73,73	1.48	8 (12%)	76,113,113	1.23	6 (7%)
39	CHL	Y	609	9	66,74,74	1.51	6 (9%)	73,114,114	1.20	8 (10%)
32	CLA	g	603	-	65,73,73	1.52	8 (12%)	76,113,113	1.13	8 (10%)
32	CLA	y	304	9	65,73,73	1.50	8 (12%)	76,113,113	1.19	6 (7%)
40	LUT	4	313	-	42,43,43	0.93	0	51,60,60	1.38	6 (11%)
32	CLA	c	510	-	65,73,73	1.51	6 (9%)	76,113,113	1.30	8 (10%)
39	CHL	44	607	-	46,54,74	1.77	7 (15%)	49,90,114	1.30	5 (10%)
40	LUT	y	317	-	42,43,43	0.96	1 (2%)	51,60,60	2.02	11 (21%)
34	BCR	K	102	-	41,41,41	0.81	0	56,56,56	2.18	18 (32%)
32	CLA	BB	610	-	65,73,73	1.49	7 (10%)	76,113,113	1.33	9 (11%)
32	CLA	SS	313	4	49,57,73	1.73	7 (14%)	55,93,113	1.25	6 (10%)
32	CLA	r	601	3	49,57,73	1.75	5 (10%)	55,93,113	1.32	7 (12%)
39	CHL	y	307	9	48,56,74	1.73	5 (10%)	51,92,114	1.31	7 (13%)
32	CLA	11	604	-	39,48,73	1.95	5 (12%)	45,82,113	1.64	9 (20%)
32	CLA	y	312	9	65,73,73	1.51	8 (12%)	76,113,113	1.12	6 (7%)
32	CLA	CC	514	-	49,57,73	1.68	6 (12%)	55,93,113	1.40	8 (14%)
34	BCR	c	516	-	41,41,41	0.89	1 (2%)	56,56,56	2.02	15 (26%)
40	LUT	YY	616	-	42,43,43	0.94	0	51,60,60	1.46	8 (15%)
41	XAT	y	302	-	39,47,47	1.17	3 (7%)	54,74,74	2.73	17 (31%)
34	BCR	Aa	411	-	41,41,41	1.00	3 (7%)	56,56,56	1.60	10 (17%)
32	CLA	c	507	-	65,73,73	1.47	7 (10%)	76,113,113	1.32	8 (10%)
32	CLA	Y	613	9	59,67,73	1.59	8 (13%)	68,105,113	1.23	7 (10%)
36	LHG	K	101	-	33,33,48	1.12	2 (6%)	36,39,54	1.08	2 (5%)
39	CHL	Rr	607	-	50,58,74	1.71	5 (10%)	52,94,114	1.46	7 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
34	BCR	b	617	-	41,41,41	1.00	2 (4%)	56,56,56	2.10	16 (28%)
32	CLA	n	604	-	49,57,73	1.72	7 (14%)	55,93,113	1.25	6 (10%)
32	CLA	Bb	605	-	65,73,73	1.48	7 (10%)	76,113,113	1.20	8 (10%)
36	LHG	DD	407	-	42,42,48	0.99	2 (4%)	45,48,54	1.02	2 (4%)
32	CLA	N	614	-	41,49,73	1.88	6 (14%)	47,84,113	1.38	7 (14%)
32	CLA	SS	311	-	49,57,73	1.72	7 (14%)	55,93,113	1.45	7 (12%)
32	CLA	Bb	612	-	65,73,73	1.47	7 (10%)	76,113,113	1.30	6 (7%)
38	LMG	CC	520	-	39,39,55	1.06	2 (5%)	47,47,63	0.95	2 (4%)
40	LUT	y	318	-	42,43,43	0.91	0	51,60,60	1.55	10 (19%)
32	CLA	Gg	312	36	65,73,73	1.50	6 (9%)	76,113,113	1.35	10 (13%)
40	LUT	44	612	-	42,43,43	0.91	0	51,60,60	1.38	6 (11%)
32	CLA	s	609	4	49,57,73	1.71	6 (12%)	55,93,113	1.37	9 (16%)
32	CLA	Gg	315	-	49,57,73	1.73	7 (14%)	55,93,113	1.29	8 (14%)
32	CLA	A	408	-	60,68,73	1.57	7 (11%)	70,107,113	1.19	8 (11%)
32	CLA	NN	604	-	41,49,73	1.85	6 (14%)	47,84,113	1.38	8 (17%)
36	LHG	A	411	-	33,33,48	1.12	2 (6%)	36,39,54	1.22	3 (8%)
32	CLA	Yy	614	-	49,57,73	1.71	7 (14%)	55,93,113	1.39	8 (14%)
39	CHL	Ss	606	-	50,58,74	1.72	4 (8%)	52,94,114	1.56	7 (13%)
39	CHL	n	601	9	50,58,74	1.71	5 (10%)	52,94,114	1.30	4 (7%)
42	NEX	Nn	309	-	38,46,46	1.06	1 (2%)	50,70,70	2.10	12 (24%)
29	OEX	A	401	18,1	0,15,15	-	-	-	-	-
32	CLA	b	608	-	65,73,73	1.51	8 (12%)	76,113,113	1.23	8 (10%)
32	CLA	Aa	410	-	60,68,73	1.57	8 (13%)	70,107,113	1.23	9 (12%)
38	LMG	b	621	-	36,36,55	1.11	2 (5%)	44,44,63	1.11	4 (9%)
39	CHL	S	607	-	43,51,74	1.89	5 (11%)	45,86,114	1.26	5 (11%)
39	CHL	SS	306	4	42,50,74	1.80	5 (11%)	44,85,114	1.67	6 (13%)
32	CLA	Rr	601	3	49,57,73	1.75	5 (10%)	55,93,113	1.31	8 (14%)
32	CLA	C	504	-	65,73,73	1.46	7 (10%)	76,113,113	1.32	8 (10%)
39	CHL	YY	606	-	44,52,74	1.80	6 (13%)	46,87,114	1.29	5 (10%)
34	BCR	b	619	-	41,41,41	0.89	1 (2%)	56,56,56	1.93	12 (21%)
42	NEX	N	618	-	38,46,46	1.13	2 (5%)	50,70,70	2.22	15 (30%)
39	CHL	3	601	15	40,49,74	1.92	5 (12%)	42,83,114	1.44	4 (9%)
32	CLA	NN	602	9	65,73,73	1.50	8 (12%)	76,113,113	1.26	10 (13%)
44	DGD	BB	625	-	57,57,67	0.91	2 (3%)	70,70,81	0.94	3 (4%)
34	BCR	XX	202	-	41,41,41	0.92	1 (2%)	56,56,56	2.14	16 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
34	BCR	D	406	-	41,41,41	0.83	0	56,56,56	1.92	16 (28%)
44	DGD	Aa	401	-	56,56,67	0.96	2 (3%)	70,70,81	0.90	3 (4%)
32	CLA	YY	611	36	42,50,73	1.83	7 (16%)	48,85,113	1.37	7 (14%)
35	PL9	AA	410	-	55,55,55	4.33	23 (41%)	68,69,69	3.71	38 (55%)
32	CLA	22	611	14	39,48,73	1.94	6 (15%)	45,82,113	1.49	8 (17%)
36	LHG	D	409	-	48,48,48	0.90	2 (4%)	51,54,54	0.91	2 (3%)
39	CHL	G	608	-	42,50,74	1.84	5 (11%)	44,85,114	1.39	7 (15%)
39	CHL	NN	609	9	50,58,74	1.67	6 (12%)	52,94,114	1.48	10 (19%)
37	SQD	Ll	101	-	53,54,54	1.18	4 (7%)	62,65,65	1.02	4 (6%)
41	XAT	r	615	-	39,47,47	1.02	1 (2%)	54,74,74	2.49	14 (25%)
39	CHL	4	308	-	46,54,74	1.76	5 (10%)	49,90,114	1.55	8 (16%)
36	LHG	Yy	618	32	48,48,48	0.91	2 (4%)	51,54,54	0.99	4 (7%)
32	CLA	R	603	-	49,57,73	1.72	7 (14%)	55,93,113	1.41	7 (12%)
32	CLA	r	610	36	49,57,73	1.75	6 (12%)	55,93,113	1.38	7 (12%)
45	BCT	a	413	30	2,3,3	1.28	0	2,3,3	3.84	2 (100%)
32	CLA	Nn	303	9	49,57,73	1.73	6 (12%)	55,93,113	1.40	8 (14%)
32	CLA	DD	401	-	65,73,73	1.50	8 (12%)	76,113,113	1.26	9 (11%)
32	CLA	Bb	610	-	65,73,73	1.52	8 (12%)	76,113,113	1.23	9 (11%)
44	DGD	c	518	-	53,53,67	0.95	2 (3%)	67,67,81	0.89	2 (2%)
39	CHL	Nn	318	-	50,58,74	1.71	6 (12%)	52,94,114	1.29	5 (9%)
40	LUT	n	615	-	42,43,43	0.97	0	51,60,60	1.30	5 (9%)
32	CLA	c	506	-	65,73,73	1.47	6 (9%)	76,113,113	1.26	10 (13%)
37	SQD	l	102	-	53,54,54	1.18	4 (7%)	62,65,65	1.03	4 (6%)
32	CLA	D	401	-	65,73,73	1.49	8 (12%)	76,113,113	1.26	9 (11%)
32	CLA	r	609	3	65,73,73	1.50	7 (10%)	76,113,113	1.19	6 (7%)
39	CHL	s	601	4	52,60,74	1.70	5 (9%)	56,97,114	1.45	8 (14%)
32	CLA	22	604	-	39,48,73	1.95	6 (15%)	45,82,113	1.49	8 (17%)
32	CLA	N	610	9	65,73,73	1.53	8 (12%)	76,113,113	1.12	8 (10%)
32	CLA	BB	603	-	65,73,73	1.48	9 (13%)	76,113,113	1.26	8 (10%)
39	CHL	Yy	605	9	48,56,74	1.75	6 (12%)	51,92,114	1.29	7 (13%)
36	LHG	N	619	32	37,37,48	1.07	2 (5%)	40,43,54	1.06	3 (7%)
32	CLA	Yy	604	-	49,57,73	1.70	7 (14%)	55,93,113	1.31	6 (10%)
37	SQD	B	602	-	46,47,54	1.28	4 (8%)	55,58,65	1.05	5 (9%)
32	CLA	r	612	3	49,57,73	1.74	7 (14%)	55,93,113	1.36	7 (12%)
39	CHL	SS	307	-	42,50,74	1.85	5 (11%)	44,85,114	1.34	4 (9%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	CLA	R	611	-	49,57,73	1.72	7 (14%)	55,93,113	1.35	6 (10%)
32	CLA	NN	612	9	42,50,73	1.84	6 (14%)	48,85,113	1.42	8 (16%)
34	BCR	BB	620	-	41,41,41	0.83	0	56,56,56	1.99	18 (32%)
36	LHG	NN	619	32	37,37,48	1.08	2 (5%)	40,43,54	1.03	2 (5%)
33	PHO	Aa	409	-	51,69,69	1.02	4 (7%)	47,99,99	1.07	5 (10%)
42	NEX	Y	619	-	38,46,46	1.08	1 (2%)	50,70,70	2.23	15 (30%)
32	CLA	BB	609	-	65,73,73	1.48	8 (12%)	76,113,113	1.34	12 (15%)
42	NEX	Rr	616	-	38,46,46	1.07	1 (2%)	50,70,70	2.22	16 (32%)
34	BCR	AA	409	-	41,41,41	1.01	3 (7%)	56,56,56	1.97	14 (25%)
32	CLA	S	608	4	41,49,73	1.90	7 (17%)	47,84,113	1.36	7 (14%)
39	CHL	Yy	609	9	66,74,74	1.48	6 (9%)	73,114,114	1.52	8 (10%)
39	CHL	N	609	9	50,58,74	1.65	6 (12%)	52,94,114	1.57	11 (21%)
32	CLA	Bb	613	-	65,73,73	1.49	8 (12%)	76,113,113	1.38	9 (11%)
44	DGD	C	523	-	53,53,67	0.93	2 (3%)	67,67,81	0.93	2 (2%)
32	CLA	3	610	36	39,48,73	1.90	5 (12%)	45,82,113	1.58	9 (20%)
34	BCR	k	101	-	41,41,41	0.88	0	56,56,56	1.92	15 (26%)
32	CLA	n	603	-	49,57,73	1.70	7 (14%)	55,93,113	1.40	8 (14%)
32	CLA	Rr	610	36	49,57,73	1.80	6 (12%)	55,93,113	1.42	6 (10%)
39	CHL	YY	605	9	48,56,74	1.76	5 (10%)	51,92,114	1.22	5 (9%)
34	BCR	TT	101	-	41,41,41	0.98	1 (2%)	56,56,56	2.04	18 (32%)
32	CLA	Bb	615	-	65,73,73	1.50	8 (12%)	76,113,113	1.21	7 (9%)
32	CLA	YY	613	9	59,67,73	1.57	7 (11%)	68,105,113	1.23	8 (11%)
34	BCR	Cc	517	-	41,41,41	1.03	2 (4%)	56,56,56	1.79	14 (25%)
39	CHL	n	606	-	50,58,74	1.71	5 (10%)	52,94,114	1.36	5 (9%)
32	CLA	4	305	-	45,53,73	1.78	6 (13%)	52,89,113	1.44	8 (15%)
32	CLA	YY	604	-	49,57,73	1.72	7 (14%)	55,93,113	1.39	8 (14%)
32	CLA	Yy	603	-	49,57,73	1.69	7 (14%)	55,93,113	1.44	8 (14%)
41	XAT	Yy	619	-	39,47,47	1.05	2 (5%)	54,74,74	2.45	19 (35%)
32	CLA	b	612	-	65,73,73	1.47	7 (10%)	76,113,113	1.29	7 (9%)
32	CLA	XX	201	-	41,49,73	1.90	7 (17%)	47,84,113	1.31	5 (10%)
44	DGD	Cc	520	-	53,53,67	0.95	2 (3%)	67,67,81	0.88	1 (1%)
32	CLA	Rr	612	3	49,57,73	1.73	7 (14%)	55,93,113	1.32	6 (10%)
36	LHG	Ss	616	32	47,47,48	0.94	2 (4%)	50,53,54	0.89	2 (4%)
32	CLA	CC	502	-	65,73,73	1.47	7 (10%)	76,113,113	1.38	9 (11%)
34	BCR	C	516	-	41,41,41	0.95	1 (2%)	56,56,56	2.07	17 (30%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
36	LHG	GG	618	32	33,33,48	1.12	2 (6%)	36,39,54	1.14	3 (8%)
40	LUT	NN	615	-	42,43,43	0.98	2 (4%)	51,60,60	1.34	8 (15%)
39	CHL	44	608	11	46,54,74	1.82	4 (8%)	49,90,114	1.58	7 (14%)
37	SQD	BB	621	-	35,36,54	1.48	5 (14%)	44,47,65	4.32	10 (22%)
32	CLA	2	603	-	39,48,73	1.94	6 (15%)	45,82,113	1.45	8 (17%)
39	CHL	4	302	-	44,53,74	1.84	6 (13%)	46,89,114	1.28	5 (10%)
36	LHG	II	101	-	33,33,48	1.13	2 (6%)	36,39,54	1.01	2 (5%)
36	LHG	l	101	-	48,48,48	0.93	2 (4%)	51,54,54	0.96	3 (5%)
32	CLA	44	610	36	45,53,73	1.82	6 (13%)	52,89,113	1.34	7 (13%)
42	NEX	n	617	-	38,46,46	1.08	1 (2%)	50,70,70	2.13	13 (26%)
32	CLA	Y	602	9	65,73,73	1.50	6 (9%)	76,113,113	1.20	9 (11%)
32	CLA	Y	614	-	49,57,73	1.72	7 (14%)	55,93,113	1.32	8 (14%)
44	DGD	CC	519	-	63,63,67	0.86	2 (3%)	77,77,81	0.93	3 (3%)
32	CLA	Cc	513	18	65,73,73	1.52	7 (10%)	76,113,113	1.21	8 (10%)
39	CHL	n	608	-	50,58,74	1.72	6 (12%)	52,94,114	1.29	6 (11%)
32	CLA	BB	601	-	65,73,73	1.49	7 (10%)	76,113,113	1.17	9 (11%)
32	CLA	Cc	511	-	65,73,73	1.50	7 (10%)	76,113,113	1.17	8 (10%)
32	CLA	CC	511	-	65,73,73	1.50	8 (12%)	76,113,113	1.25	7 (9%)
32	CLA	a	410	-	60,68,73	1.57	7 (11%)	70,107,113	1.23	8 (11%)
40	LUT	G	616	-	42,43,43	0.93	0	51,60,60	1.59	9 (17%)
40	LUT	N	615	-	42,43,43	0.98	2 (4%)	51,60,60	1.48	8 (15%)
34	BCR	Hh	101	-	41,41,41	1.06	4 (9%)	56,56,56	2.42	22 (39%)
36	LHG	4	301	32	18,18,48	1.77	3 (16%)	17,22,54	1.48	1 (5%)
32	CLA	Cc	512	-	65,73,73	1.50	7 (10%)	76,113,113	1.25	8 (10%)
36	LHG	Gg	319	32	33,33,48	1.12	2 (6%)	36,39,54	1.17	3 (8%)
44	DGD	B	603	-	57,57,67	0.92	2 (3%)	70,70,81	0.93	3 (4%)
32	CLA	S	611	4	49,57,73	1.72	6 (12%)	55,93,113	1.45	7 (12%)
32	CLA	Bb	608	-	65,73,73	1.48	9 (13%)	76,113,113	1.22	8 (10%)
32	CLA	Bb	609	-	65,73,73	1.45	6 (9%)	76,113,113	1.34	9 (11%)
39	CHL	4	307	-	46,54,74	1.79	6 (13%)	49,90,114	1.31	5 (10%)
39	CHL	S	605	-	42,50,74	1.88	4 (9%)	44,85,114	1.64	6 (13%)
32	CLA	Cc	506	-	55,63,73	1.60	7 (12%)	64,101,113	1.27	8 (12%)
41	XAT	4	314	-	39,47,47	1.00	0	54,74,74	2.62	15 (27%)
32	CLA	BB	614	-	65,73,73	1.49	7 (10%)	76,113,113	1.28	10 (13%)
39	CHL	r	605	3	50,58,74	1.71	5 (10%)	52,94,114	1.35	6 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	CLA	11	611	14	39,48,73	1.93	5 (12%)	45,82,113	1.53	8 (17%)
39	CHL	33	607	-	40,49,74	1.93	5 (12%)	42,83,114	1.64	7 (16%)
38	LMG	W	201	-	48,48,55	0.98	3 (6%)	56,56,63	1.05	2 (3%)
32	CLA	S	610	-	49,57,73	1.71	7 (14%)	55,93,113	1.42	6 (10%)
32	CLA	a	406	1	65,73,73	1.59	9 (13%)	76,113,113	1.24	9 (11%)
40	LUT	GG	615	-	42,43,43	0.93	0	51,60,60	1.45	7 (13%)
37	SQD	CC	501	-	53,54,54	1.16	5 (9%)	62,65,65	1.23	5 (8%)
34	BCR	A	409	-	41,41,41	1.00	3 (7%)	56,56,56	1.98	14 (25%)
40	LUT	s	615	-	42,43,43	0.92	0	51,60,60	1.59	12 (23%)
44	DGD	BB	624	-	56,56,67	0.92	2 (3%)	70,70,81	0.98	4 (5%)
32	CLA	R	609	3	65,73,73	1.52	8 (12%)	76,113,113	1.17	8 (10%)
32	CLA	Rr	603	-	49,57,73	1.74	7 (14%)	55,93,113	1.40	6 (10%)
39	CHL	g	601	9	66,74,74	1.49	5 (7%)	73,114,114	1.12	6 (8%)
34	BCR	B	614	-	41,41,41	0.96	2 (4%)	56,56,56	1.85	13 (23%)
32	CLA	44	604	-	45,53,73	1.78	7 (15%)	52,89,113	1.38	7 (13%)
44	DGD	C	520	-	63,63,67	0.86	2 (3%)	77,77,81	0.86	2 (2%)
38	LMG	b	620	-	36,36,55	1.11	2 (5%)	44,44,63	0.95	2 (4%)
45	BCT	Aa	414	30	2,3,3	1.27	0	2,3,3	3.93	2 (100%)
40	LUT	Yy	616	-	42,43,43	0.91	0	51,60,60	1.55	10 (19%)
34	BCR	C	517	-	41,41,41	0.93	1 (2%)	56,56,56	1.88	12 (21%)
32	CLA	YY	612	9	58,66,73	1.66	6 (10%)	67,104,113	1.49	15 (22%)
32	CLA	Rr	609	3	65,73,73	1.49	6 (9%)	76,113,113	1.25	7 (9%)
32	CLA	Y	604	-	49,57,73	1.71	7 (14%)	55,93,113	1.33	8 (14%)
38	LMG	j	101	-	46,46,55	0.98	2 (4%)	54,54,63	1.04	3 (5%)
32	CLA	X	201	-	41,49,73	1.88	7 (17%)	47,84,113	1.43	7 (14%)
34	BCR	b	618	-	41,41,41	0.90	1 (2%)	56,56,56	1.92	12 (21%)
32	CLA	GG	602	9	49,57,73	1.75	7 (14%)	55,93,113	1.40	6 (10%)
32	CLA	Cc	503	-	65,73,73	1.49	7 (10%)	76,113,113	1.30	7 (9%)
32	CLA	Y	612	9	65,73,73	1.54	7 (10%)	76,113,113	1.21	10 (13%)
34	BCR	BB	618	-	41,41,41	0.92	1 (2%)	56,56,56	1.87	13 (23%)
32	CLA	1	609	14	39,48,73	1.97	8 (20%)	45,82,113	1.52	6 (13%)
39	CHL	Rr	605	3	50,58,74	1.70	5 (10%)	52,94,114	1.48	6 (11%)
32	CLA	SS	312	4	49,57,73	1.72	6 (12%)	55,93,113	1.41	7 (12%)
32	CLA	33	610	36	39,48,73	1.92	5 (12%)	45,82,113	1.49	8 (17%)
32	CLA	C	506	-	65,73,73	1.50	8 (12%)	76,113,113	1.23	7 (9%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
36	LHG	D	410	-	33,33,48	1.12	2 (6%)	36,39,54	1.11	3 (8%)
42	NEX	y	319	-	38,46,46	1.07	1 (2%)	50,70,70	2.01	11 (22%)
32	CLA	RR	310	36	49,57,73	1.75	6 (12%)	55,93,113	1.29	7 (12%)
38	LMG	BB	619	-	45,45,55	0.98	2 (4%)	53,53,63	0.93	2 (3%)
36	LHG	a	414	-	36,36,48	1.07	2 (5%)	39,42,54	0.92	2 (5%)
39	CHL	y	308	-	44,52,74	1.81	5 (11%)	46,87,114	1.32	5 (10%)
43	LMU	KK	102	-	28,28,36	0.76	0	39,39,47	0.88	1 (2%)
32	CLA	SS	310	4	41,49,73	1.92	6 (14%)	47,84,113	1.37	6 (12%)
39	CHL	11	607	-	40,49,74	1.91	4 (10%)	42,83,114	1.71	10 (23%)
32	CLA	Cc	514	-	65,73,73	1.47	7 (10%)	76,113,113	1.25	8 (10%)
34	BCR	B	616	-	41,41,41	0.85	0	56,56,56	1.97	19 (33%)
29	OEX	AA	401	18,1	0,15,15	-	-	-	-	-
39	CHL	YY	607	-	43,51,74	1.85	5 (11%)	45,86,114	1.54	8 (17%)
39	CHL	N	606	-	42,50,74	1.85	6 (14%)	44,85,114	1.35	5 (11%)
41	XAT	G	617	-	39,47,47	1.10	2 (5%)	54,74,74	2.50	14 (25%)
36	LHG	Dd	405	-	42,42,48	0.98	2 (4%)	45,48,54	0.95	2 (4%)
41	XAT	R	616	-	39,47,47	0.98	2 (5%)	54,74,74	2.29	16 (29%)
32	CLA	44	603	-	45,53,73	1.80	7 (15%)	52,89,113	1.44	6 (11%)
32	CLA	S	609	4	41,49,73	1.89	6 (14%)	47,84,113	1.44	6 (12%)
33	PHO	DD	402	-	51,69,69	1.03	5 (9%)	47,99,99	1.10	5 (10%)
32	CLA	BB	604	-	65,73,73	1.52	7 (10%)	76,113,113	1.15	9 (11%)
29	OEX	a	401	18,1	0,15,15	-	-	-	-	-
32	CLA	b	615	-	65,73,73	1.51	8 (12%)	76,113,113	1.20	7 (9%)
32	CLA	1	612	14	39,48,73	1.94	5 (12%)	45,82,113	1.56	7 (15%)
32	CLA	Cc	505	-	65,73,73	1.50	7 (10%)	76,113,113	1.21	7 (9%)
36	LHG	s	616	32	47,47,48	0.95	2 (4%)	50,53,54	0.90	2 (4%)
37	SQD	Aa	413	-	46,47,54	1.27	4 (8%)	55,58,65	1.04	5 (9%)
39	CHL	y	309	-	43,51,74	1.81	5 (11%)	45,86,114	1.52	7 (15%)
39	CHL	GG	605	9	43,51,74	1.87	5 (11%)	45,86,114	1.24	5 (11%)
32	CLA	DD	404	-	65,73,73	1.50	7 (10%)	76,113,113	1.15	6 (7%)
32	CLA	b	606	-	65,73,73	1.50	8 (12%)	76,113,113	1.21	9 (11%)
32	CLA	Ss	612	4	49,57,73	1.74	6 (12%)	55,93,113	1.34	7 (12%)
32	CLA	BB	605	-	65,73,73	1.49	8 (12%)	76,113,113	1.26	9 (11%)
32	CLA	NN	614	-	41,49,73	1.88	6 (14%)	47,84,113	1.38	7 (14%)
39	CHL	Gg	308	-	50,58,74	1.69	5 (10%)	52,94,114	1.24	5 (9%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	PHO	A	407	-	51,69,69	1.03	4 (7%)	47,99,99	1.22	8 (17%)
32	CLA	C	508	-	65,73,73	1.49	7 (10%)	76,113,113	1.39	8 (10%)
32	CLA	c	501	-	65,73,73	1.49	8 (12%)	76,113,113	1.32	10 (13%)
32	CLA	CC	508	-	65,73,73	1.46	8 (12%)	76,113,113	1.36	10 (13%)
36	LHG	BB	622	-	33,33,48	1.12	2 (6%)	36,39,54	1.01	2 (5%)
39	CHL	y	311	9	66,74,74	1.50	6 (9%)	73,114,114	1.14	7 (9%)
39	CHL	33	608	15	40,49,74	1.92	5 (12%)	42,83,114	1.69	8 (19%)
36	LHG	Rr	617	32	48,48,48	0.98	2 (4%)	51,54,54	0.97	2 (3%)
36	LHG	JJ	101	-	32,32,48	1.13	2 (6%)	35,38,54	1.13	3 (8%)
41	XAT	N	617	-	39,47,47	1.13	3 (7%)	54,74,74	2.50	14 (25%)
32	CLA	B	604	-	65,73,73	1.54	7 (10%)	76,113,113	1.21	7 (9%)
39	CHL	N	601	9	44,52,74	1.85	6 (13%)	46,87,114	1.34	7 (15%)
39	CHL	YY	608	-	50,58,74	1.69	6 (12%)	52,94,114	1.28	6 (11%)
39	CHL	Nn	315	9	48,56,74	1.74	5 (10%)	51,92,114	1.60	8 (15%)
40	LUT	Ss	614	-	42,43,43	1.08	2 (4%)	51,60,60	1.46	10 (19%)
38	LMG	m	101	-	51,51,55	0.94	2 (3%)	59,59,63	0.82	2 (3%)
34	BCR	c	515	-	41,41,41	1.01	3 (7%)	56,56,56	1.69	12 (21%)
39	CHL	l	601	14	40,49,74	1.94	6 (15%)	42,83,114	1.41	5 (11%)
32	CLA	n	612	9	49,57,73	1.72	8 (16%)	55,93,113	1.34	7 (12%)
32	CLA	Nn	313	-	49,57,73	1.71	7 (14%)	55,93,113	1.42	8 (14%)
36	LHG	44	614	32	20,20,48	1.30	2 (10%)	23,26,54	1.50	2 (8%)
32	CLA	B	606	-	65,73,73	1.50	7 (10%)	76,113,113	1.29	8 (10%)
32	CLA	NN	610	9	65,73,73	1.52	8 (12%)	76,113,113	1.16	9 (11%)
40	LUT	22	614	-	42,43,43	1.12	4 (9%)	51,60,60	1.77	11 (21%)
41	XAT	GG	619	-	39,47,47	1.19	3 (7%)	54,74,74	2.94	12 (22%)
32	CLA	R	610	36	49,57,73	1.77	7 (14%)	55,93,113	1.25	7 (12%)
32	CLA	g	614	-	49,57,73	1.73	7 (14%)	55,93,113	1.29	8 (14%)
38	LMG	Cc	501	-	34,34,55	1.14	3 (8%)	42,42,63	1.27	6 (14%)
32	CLA	Nn	301	9	65,73,73	1.52	8 (12%)	76,113,113	1.18	10 (13%)
32	CLA	G	612	9	49,57,73	1.75	7 (14%)	55,93,113	1.38	8 (14%)
32	CLA	YY	602	9	65,73,73	1.51	7 (10%)	76,113,113	1.18	8 (10%)
39	CHL	11	601	14	40,49,74	1.95	6 (15%)	42,83,114	1.42	6 (14%)
32	CLA	n	613	9	49,57,73	1.76	8 (16%)	55,93,113	1.36	7 (12%)
39	CHL	NN	607	-	66,74,74	1.48	5 (7%)	73,114,114	1.17	5 (6%)
33	PHO	AA	407	-	51,69,69	1.05	5 (9%)	47,99,99	1.22	7 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	CLA	44	611	-	45,53,73	1.79	6 (13%)	52,89,113	1.41	6 (11%)
32	CLA	Ss	603	-	49,57,73	1.76	6 (12%)	55,93,113	1.31	7 (12%)
32	CLA	R	613	-	41,49,73	1.90	7 (17%)	47,84,113	1.44	8 (17%)
32	CLA	Nn	302	36	49,57,73	1.73	6 (12%)	55,93,113	1.37	7 (12%)
36	LHG	A	414	-	44,44,48	0.97	2 (4%)	47,50,54	0.89	2 (4%)
40	LUT	Y	615	-	42,43,43	0.94	1 (2%)	51,60,60	1.88	12 (23%)
32	CLA	c	505	-	65,73,73	1.48	8 (12%)	76,113,113	1.11	7 (9%)
35	PL9	d	404	-	55,55,55	4.25	19 (34%)	68,69,69	3.83	37 (54%)
32	CLA	11	610	36	39,48,73	1.95	5 (12%)	45,82,113	1.46	8 (17%)
32	CLA	Nn	304	9	49,57,73	1.76	7 (14%)	55,93,113	1.36	8 (14%)
39	CHL	n	605	9	48,56,74	1.76	6 (12%)	51,92,114	1.37	7 (13%)
32	CLA	C	505	-	65,73,73	1.50	7 (10%)	76,113,113	1.26	10 (13%)
34	BCR	B	612	-	41,41,41	0.95	0	56,56,56	1.75	13 (23%)
39	CHL	S	606	-	42,50,74	1.86	5 (11%)	44,85,114	1.35	4 (9%)
32	CLA	s	612	4	49,57,73	1.73	6 (12%)	55,93,113	1.34	7 (12%)
32	CLA	2	609	14	39,48,73	1.95	6 (15%)	45,82,113	1.48	7 (15%)
32	CLA	G	610	9	49,57,73	1.80	8 (16%)	55,93,113	1.52	7 (12%)
32	CLA	Y	610	9	65,73,73	1.50	7 (10%)	76,113,113	1.25	9 (11%)
39	CHL	Y	601	9	66,74,74	1.50	6 (9%)	73,114,114	1.16	5 (6%)
32	CLA	CC	503	-	65,73,73	1.46	7 (10%)	76,113,113	1.31	9 (11%)
32	CLA	Ss	611	4	49,57,73	1.73	7 (14%)	55,93,113	1.41	9 (16%)
32	CLA	n	602	9	65,73,73	1.50	9 (13%)	76,113,113	1.28	12 (15%)
32	CLA	NN	603	-	42,50,73	1.80	7 (16%)	48,85,113	1.49	8 (16%)
32	CLA	b	611	-	65,73,73	1.49	7 (10%)	76,113,113	1.19	8 (10%)
38	LMG	Bb	621	-	36,36,55	1.11	2 (5%)	44,44,63	1.10	5 (11%)
32	CLA	CC	504	-	65,73,73	1.49	8 (12%)	76,113,113	1.20	9 (11%)
32	CLA	Rr	604	-	49,57,73	1.74	7 (14%)	55,93,113	1.26	7 (12%)
32	CLA	44	609	11	45,53,73	1.79	6 (13%)	52,89,113	1.36	6 (11%)
36	LHG	3	614	32	33,33,48	1.13	2 (6%)	36,39,54	1.14	3 (8%)
36	LHG	r	616	32	48,48,48	0.97	2 (4%)	51,54,54	0.92	2 (3%)
32	CLA	b	604	-	65,73,73	1.48	7 (10%)	76,113,113	1.30	9 (11%)
32	CLA	RR	302	3	65,73,73	1.51	8 (12%)	76,113,113	1.29	10 (13%)
42	NEX	Gg	318	-	38,46,46	1.10	3 (7%)	50,70,70	2.44	14 (28%)
34	BCR	Bb	618	-	41,41,41	0.89	1 (2%)	56,56,56	1.94	12 (21%)
32	CLA	3	612	15	39,48,73	1.96	7 (17%)	45,82,113	1.41	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
36	LHG	44	616	32	18,18,48	1.77	3 (16%)	17,22,54	1.42	1 (5%)
32	CLA	b	610	-	65,73,73	1.52	6 (9%)	76,113,113	1.20	7 (9%)
39	CHL	G	601	9	66,74,74	1.50	4 (6%)	73,114,114	1.07	5 (6%)
37	SQD	AA	412	-	34,35,54	1.46	4 (11%)	43,46,65	1.16	4 (9%)
39	CHL	GG	607	-	46,54,74	1.77	5 (10%)	49,90,114	1.31	4 (8%)
39	CHL	11	605	14	40,49,74	1.97	5 (12%)	42,83,114	1.43	6 (14%)
39	CHL	y	303	9	66,74,74	1.51	6 (9%)	73,114,114	1.11	5 (6%)
45	BCT	D	403	30	2,3,3	1.26	0	2,3,3	4.02	2 (100%)
32	CLA	GG	614	-	41,49,73	1.86	6 (14%)	47,84,113	1.33	7 (14%)
32	CLA	SS	305	-	49,57,73	1.74	7 (14%)	55,93,113	1.42	8 (14%)
36	LHG	11	614	32	33,33,48	1.14	2 (6%)	36,39,54	1.11	3 (8%)
36	LHG	L1	102	-	48,48,48	0.93	2 (4%)	51,54,54	0.99	3 (5%)
32	CLA	BB	602	-	65,73,73	1.50	8 (12%)	76,113,113	1.21	9 (11%)
32	CLA	1	602	14	39,48,73	1.92	5 (12%)	45,82,113	1.52	8 (17%)
32	CLA	NN	613	9	49,57,73	1.75	8 (16%)	55,93,113	1.30	5 (9%)
44	DGD	Cc	519	-	56,56,67	0.91	2 (3%)	70,70,81	1.11	7 (10%)
39	CHL	Y	605	9	48,56,74	1.74	6 (12%)	51,92,114	1.29	6 (11%)
38	LMG	B	615	-	45,45,55	0.98	2 (4%)	53,53,63	0.93	2 (3%)
32	CLA	c	503	-	65,73,73	1.50	7 (10%)	76,113,113	1.15	7 (9%)
32	CLA	Cc	509	-	65,73,73	1.48	7 (10%)	76,113,113	1.30	7 (9%)
32	CLA	Yy	611	36	42,50,73	1.84	7 (16%)	48,85,113	1.44	6 (12%)
39	CHL	3	607	-	40,49,74	1.93	4 (10%)	42,83,114	1.61	7 (16%)
32	CLA	SS	309	4	41,49,73	1.88	6 (14%)	47,84,113	1.40	7 (14%)
38	LMG	c	519	-	34,34,55	1.14	3 (8%)	42,42,63	1.20	6 (14%)
35	PL9	DD	406	-	55,55,55	4.25	19 (34%)	68,69,69	3.82	37 (54%)

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
46	HEM	Ee	101	20,21	-	6/12/54/54	-
39	CHL	11	608	14	3/3/19/26	2/10/104/137	-
32	CLA	Gg	314	9	1/1/13/20	2/8/82/115	-
39	CHL	22	608	14	3/3/19/26	2/10/104/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	CLA	C	509	-	1/1/20/20	10/37/115/115	-
32	CLA	B	619	-	1/1/20/20	21/37/115/115	-
44	DGD	Hh	102	-	-	12/51/91/95	0/2/2/2
44	DGD	h	102	-	-	8/51/91/95	0/2/2/2
32	CLA	GG	610	9	1/1/16/20	7/18/96/115	-
32	CLA	b	601	-	1/1/20/20	16/37/115/115	-
34	BCR	Kk	101	-	-	4/29/63/63	0/2/2/2
34	BCR	T	101	-	-	3/29/63/63	0/2/2/2
34	BCR	DD	405	-	-	2/29/63/63	0/2/2/2
39	CHL	4	306	-	3/3/21/26	5/15/113/137	-
32	CLA	N	602	9	1/1/20/20	14/37/115/115	-
32	CLA	b	609	-	1/1/20/20	17/37/115/115	-
32	CLA	y	315	9	1/1/18/20	11/30/108/115	-
32	CLA	AA	406	-	1/1/16/20	7/18/96/115	-
44	DGD	CC	522	-	-	11/44/84/95	0/2/2/2
32	CLA	11	603	-	1/1/13/20	5/8/82/115	-
39	CHL	r	606	-	3/3/22/26	4/20/118/137	-
32	CLA	22	613	-	1/1/13/20	4/8/82/115	-
32	CLA	B	605	-	-	15/37/115/115	-
43	LMU	C	502	-	-	4/13/53/61	0/2/2/2
39	CHL	s	607	-	3/3/22/26	7/19/117/137	-
32	CLA	Yy	602	9	1/1/20/20	15/37/115/115	-
32	CLA	BB	607	-	1/1/20/20	12/37/115/115	-
32	CLA	Bb	607	-	1/1/20/20	11/37/115/115	-
32	CLA	11	609	14	1/1/13/20	2/8/82/115	-
32	CLA	N	613	9	1/1/16/20	8/18/96/115	-
39	CHL	33	606	-	3/3/19/26	4/10/104/137	-
39	CHL	Yy	608	-	3/3/22/26	6/20/118/137	-
38	LMG	A	415	-	-	4/31/51/70	0/1/1/1
42	NEX	g	617	32	-	3/27/83/83	0/3/3/3
43	LMU	R	618	-	-	5/13/53/61	0/2/2/2
32	CLA	N	603	-	1/1/14/20	6/10/88/115	-
36	LHG	0	201	-	-	11/51/51/53	-
37	SQD	LL	102	-	-	16/49/69/69	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	CHL	SS	308	4	3/3/22/26	5/19/117/137	-
32	CLA	Yy	613	9	1/1/18/20	9/30/108/115	-
39	CHL	N	605	9	3/3/20/26	4/10/108/137	-
32	CLA	B	608	-	1/1/20/20	14/37/115/115	-
34	BCR	h	101	-	-	7/29/63/63	0/2/2/2
32	CLA	1	611	14	1/1/13/20	2/8/82/115	-
32	CLA	y	305	-	1/1/16/20	5/18/96/115	-
32	CLA	AA	408	-	1/1/19/20	8/31/109/115	-
32	CLA	B	609	-	1/1/19/20	7/31/109/115	-
36	LHG	CC	523	-	-	10/41/41/53	-
32	CLA	B	611	-	1/1/14/20	3/8/86/115	-
32	CLA	g	610	9	1/1/16/20	6/18/96/115	-
32	CLA	3	611	15	1/1/13/20	4/8/82/115	-
39	CHL	1	606	-	3/3/19/26	4/10/104/137	-
32	CLA	N	604	-	1/1/14/20	5/8/86/115	-
36	LHG	22	615	32	-	9/38/38/53	-
40	LUT	Gg	316	-	-	2/29/67/67	0/2/2/2
32	CLA	b	603	-	1/1/20/20	16/37/115/115	-
32	CLA	22	602	14	1/1/13/20	2/8/82/115	-
39	CHL	3	606	-	3/3/19/26	4/10/104/137	-
32	CLA	44	615	3	1/1/16/20	9/18/96/115	-
32	CLA	n	611	36	1/1/16/20	5/18/96/115	-
40	LUT	Nn	306	-	-	1/29/67/67	0/2/2/2
32	CLA	R	601	3	1/1/16/20	8/18/96/115	-
32	CLA	B	621	-	1/1/20/20	12/37/115/115	-
39	CHL	Rr	606	-	3/3/22/26	6/20/118/137	-
40	LUT	SS	315	-	-	3/29/67/67	0/2/2/2
35	PL9	D	407	-	-	28/53/73/73	0/1/1/1
37	SQD	A	412	-	-	6/30/50/69	0/1/1/1
39	CHL	1	607	-	3/3/19/26	2/10/104/137	-
36	LHG	y	320	32	-	23/53/53/53	-
39	CHL	RR	306	-	3/3/21/26	11/20/118/137	-
32	CLA	Nn	305	-	-	7/18/96/115	-
32	CLA	G	614	-	1/1/14/20	2/8/86/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
44	DGD	C	519	-	-	9/44/84/95	0/2/2/2
39	CHL	GG	609	9	3/3/20/26	4/12/110/137	-
32	CLA	YY	603	-	1/1/16/20	7/18/96/115	-
32	CLA	33	609	15	1/1/13/20	1/8/82/115	-
32	CLA	C	511	-	1/1/20/20	12/37/115/115	-
39	CHL	11	606	-	3/3/19/26	4/10/104/137	-
40	LUT	Nn	307	-	-	2/29/67/67	0/2/2/2
32	CLA	Ss	609	4	1/1/16/20	10/18/96/115	-
32	CLA	22	603	-	1/1/13/20	2/8/82/115	-
41	XAT	NN	617	-	-	0/31/93/93	0/4/4/4
40	LUT	G	615	-	-	2/29/67/67	0/2/2/2
32	CLA	r	613	3	1/1/16/20	9/18/96/115	-
32	CLA	BB	611	-	1/1/20/20	6/37/115/115	-
36	LHG	A	413	-	-	11/41/41/53	-
32	CLA	Cc	507	-	1/1/20/20	12/37/115/115	-
39	CHL	r	607	-	3/3/22/26	8/20/118/137	-
32	CLA	CC	507	-	1/1/20/20	13/37/115/115	-
39	CHL	GG	606	-	3/3/20/26	5/12/110/137	-
32	CLA	BB	615	-	1/1/14/20	3/8/86/115	-
32	CLA	2	602	14	1/1/13/20	4/8/82/115	-
32	CLA	A	406	-	1/1/16/20	9/18/96/115	-
32	CLA	c	508	-	1/1/19/20	11/31/109/115	-
32	CLA	YY	610	9	1/1/20/20	15/37/115/115	-
39	CHL	YY	601	9	3/3/26/26	14/39/137/137	-
40	LUT	g	615	-	-	1/29/67/67	0/2/2/2
32	CLA	C	512	-	1/1/20/20	10/37/115/115	-
33	PHO	Aa	408	-	-	7/37/103/103	0/5/6/6
32	CLA	4	310	-	1/1/15/20	6/13/91/115	-
41	XAT	Gg	301	-	-	1/31/93/93	0/4/4/4
32	CLA	r	604	-	1/1/16/20	14/18/96/115	-
32	CLA	1	613	-	1/1/13/20	2/8/82/115	-
39	CHL	3	605	-	3/3/19/26	5/10/104/137	-
32	CLA	C	510	-	1/1/20/20	13/37/115/115	-
32	CLA	4	311	36	1/1/15/20	6/13/91/115	-
39	CHL	Yy	601	9	3/3/26/26	14/39/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	CLA	r	602	3	1/1/20/20	14/37/115/115	-
32	CLA	s	604	-	1/1/16/20	9/18/96/115	-
32	CLA	c	509	-	1/1/20/20	12/37/115/115	-
39	CHL	R	606	-	3/3/22/26	8/20/118/137	-
39	CHL	RR	307	-	3/3/22/26	8/20/118/137	-
34	BCR	a	411	-	-	4/29/63/63	0/2/2/2
35	PL9	Dd	404	-	-	28/53/73/73	0/1/1/1
38	LMG	Bb	620	-	-	4/31/51/70	0/1/1/1
32	CLA	Aa	405	-	1/1/20/20	14/37/115/115	-
44	DGD	B	601	-	-	6/44/84/95	0/2/2/2
32	CLA	s	610	36	1/1/16/20	8/18/96/115	-
39	CHL	4	309	11	3/3/21/26	7/15/113/137	-
32	CLA	D	405	-	1/1/20/20	6/37/115/115	-
36	LHG	J	101	-	-	10/30/30/53	-
32	CLA	GG	612	9	1/1/16/20	8/18/96/115	-
46	HEM	e	101	20,21	-	3/12/54/54	-
41	XAT	Rr	615	-	-	2/31/93/93	0/4/4/4
32	CLA	C	513	18	1/1/20/20	18/37/115/115	-
32	CLA	B	610	-	1/1/20/20	9/37/115/115	-
40	LUT	S	614	-	-	2/29/67/67	0/2/2/2
46	HEM	E	101	20,21	-	0/12/54/54	-
32	CLA	r	603	-	1/1/16/20	7/18/96/115	-
32	CLA	Cc	510	-	1/1/19/20	8/31/109/115	-
41	XAT	g	619	-	-	1/31/93/93	0/4/4/4
32	CLA	RR	313	-	1/1/14/20	4/8/86/115	-
39	CHL	n	609	9	3/3/22/26	6/20/118/137	-
37	SQD	LL	101	-	-	9/31/51/69	0/1/1/1
39	CHL	Ss	601	4	3/3/23/26	7/23/121/137	-
36	LHG	D	408	-	-	13/47/47/53	-
32	CLA	Rr	602	3	1/1/20/20	12/37/115/115	-
32	CLA	r	608	3	1/1/16/20	11/18/96/115	-
32	CLA	22	609	14	1/1/13/20	5/8/82/115	-
44	DGD	D	411	-	-	7/51/91/95	0/2/2/2
32	CLA	r	611	-	1/1/16/20	11/18/96/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
36	LHG	YY	618	32	-	19/53/53/53	-
32	CLA	A	405	-	1/1/20/20	16/37/115/115	-
32	CLA	Bb	611	-	1/1/20/20	7/37/115/115	-
39	CHL	Yy	607	-	3/3/20/26	3/12/110/137	-
39	CHL	N	607	-	3/3/26/26	12/39/137/137	-
39	CHL	NN	606	-	3/3/20/26	3/10/108/137	-
36	LHG	Y	618	32	-	18/53/53/53	-
32	CLA	1	610	36	1/1/13/20	6/8/82/115	-
36	LHG	KK	101	-	-	8/38/38/53	-
32	CLA	33	604	-	1/1/13/20	3/8/82/115	-
32	CLA	s	608	4	1/1/16/20	9/18/96/115	-
42	NEX	Yy	617	-	-	3/27/83/83	0/3/3/3
32	CLA	33	611	15	1/1/13/20	4/8/82/115	-
32	CLA	B	618	-	1/1/20/20	10/37/115/115	-
32	CLA	N	611	36	1/1/16/20	9/18/96/115	-
32	CLA	Aa	406	1	1/1/20/20	11/37/115/115	-
38	LMG	DD	409	-	-	4/41/61/70	0/1/1/1
39	CHL	2	606	-	3/3/19/26	2/10/104/137	-
32	CLA	GG	604	-	1/1/14/20	5/10/88/115	-
38	LMG	a	412	-	-	10/37/57/70	0/1/1/1
32	CLA	CC	505	-	1/1/20/20	7/37/115/115	-
32	CLA	Ss	613	-	1/1/16/20	7/18/96/115	-
39	CHL	g	609	9	3/3/20/26	6/12/110/137	-
32	CLA	Cc	504	-	-	14/37/115/115	-
32	CLA	Dd	401	-	-	12/37/115/115	-
32	CLA	Yy	612	9	1/1/20/20	8/37/115/115	-
34	BCR	Cc	518	-	-	3/29/63/63	0/2/2/2
39	CHL	YY	609	9	3/3/26/26	10/39/137/137	-
39	CHL	2	607	-	3/3/19/26	4/10/104/137	-
32	CLA	B	623	-	1/1/20/20	11/37/115/115	-
44	DGD	BB	623	-	-	8/51/91/95	0/2/2/2
32	CLA	Ss	608	4	1/1/16/20	9/18/96/115	-
32	CLA	y	314	9	1/1/20/20	11/37/115/115	-
36	LHG	AA	414	-	-	10/49/49/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
38	LMG	Dd	408	-	-	6/41/61/70	0/1/1/1
32	CLA	BB	613	-	1/1/19/20	8/31/109/115	-
41	XAT	GG	617	-	-	2/31/93/93	0/4/4/4
32	CLA	Rr	611	-	1/1/16/20	11/18/96/115	-
32	CLA	S	613	-	1/1/15/20	4/13/91/115	-
39	CHL	g	606	-	3/3/20/26	6/12/110/137	-
39	CHL	NN	608	-	3/3/20/26	3/10/108/137	-
32	CLA	YY	614	-	1/1/16/20	11/18/96/115	-
34	BCR	BB	616	-	-	4/29/63/63	0/2/2/2
39	CHL	Y	608	-	3/3/22/26	6/20/118/137	-
32	CLA	Cc	508	-	1/1/20/20	18/37/115/115	-
32	CLA	Bb	601	-	1/1/20/20	14/37/115/115	-
32	CLA	Nn	314	-	1/1/16/20	4/18/96/115	-
36	LHG	1	614	32	-	8/34/34/53	-
32	CLA	GG	603	-	1/1/20/20	10/37/115/115	-
39	CHL	1	608	14	3/3/19/26	3/10/104/137	-
32	CLA	C	514	-	1/1/20/20	8/37/115/115	-
32	CLA	Ss	602	4	1/1/16/20	11/18/96/115	-
39	CHL	2	601	14	3/3/19/26	2/10/104/137	-
39	CHL	Y	607	-	3/3/20/26	2/12/110/137	-
34	BCR	d	403	-	-	4/29/63/63	0/2/2/2
43	LMU	RR	301	-	-	3/13/53/61	0/2/2/2
39	CHL	Nn	316	-	3/3/22/26	1/20/118/137	-
39	CHL	Y	606	-	3/3/20/26	4/13/111/137	-
32	CLA	Gg	303	9	-	10/18/96/115	-
32	CLA	33	613	-	1/1/13/20	4/8/82/115	-
36	LHG	Dd	406	-	-	10/53/53/53	-
32	CLA	a	405	-	1/1/20/20	15/37/115/115	-
36	LHG	n	618	32	-	12/53/53/53	-
42	NEX	RR	317	-	-	3/27/83/83	0/3/3/3
35	PL9	A	410	-	-	24/53/73/73	0/1/1/1
32	CLA	4	303	11	1/1/15/20	8/13/91/115	-
32	CLA	N	612	9	1/1/14/20	3/10/88/115	-
39	CHL	1	605	14	3/3/19/26	4/10/104/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	CHL	R	605	-	3/3/22/26	7/20/118/137	-
32	CLA	Aa	407	-	1/1/16/20	8/18/96/115	-
36	LHG	d	406	-	-	10/53/53/53	-
32	CLA	BB	608	-	1/1/20/20	13/37/115/115	-
40	LUT	Rr	614	-	-	2/29/67/67	0/2/2/2
32	CLA	22	610	36	1/1/14/20	6/10/88/115	-
32	CLA	22	612	14	1/1/13/20	3/8/82/115	-
41	XAT	y	301	-	-	3/31/93/93	0/4/4/4
32	CLA	SS	303	4	1/1/16/20	10/18/96/115	-
34	BCR	Bb	619	-	-	2/29/63/63	0/2/2/2
40	LUT	Y	616	-	-	2/29/67/67	0/2/2/2
32	CLA	c	504	-	1/1/18/20	4/25/103/115	-
33	PHO	a	409	-	-	16/37/103/103	0/5/6/6
44	DGD	CC	518	-	-	11/44/84/95	0/2/2/2
39	CHL	Gg	307	-	3/3/20/26	6/12/110/137	-
32	CLA	G	604	-	1/1/14/20	6/10/88/115	-
32	CLA	R	608	3	1/1/16/20	9/18/96/115	-
36	LHG	G	618	32	-	7/38/38/53	-
40	LUT	Ss	615	-	-	0/29/67/67	0/2/2/2
32	CLA	Gg	305	-	1/1/14/20	6/10/88/115	-
44	DGD	c	517	-	-	5/44/84/95	0/2/2/2
40	LUT	YY	615	-	-	4/29/67/67	0/2/2/2
32	CLA	c	511	18	1/1/20/20	10/37/115/115	-
39	CHL	3	608	15	3/3/19/26	3/10/104/137	-
32	CLA	Yy	610	9	1/1/20/20	10/37/115/115	-
32	CLA	33	603	-	1/1/13/20	4/8/82/115	-
32	CLA	G	602	9	1/1/16/20	8/18/96/115	-
42	NEX	NN	618	-	-	2/27/83/83	0/3/3/3
34	BCR	Dd	403	-	-	4/29/63/63	0/2/2/2
32	CLA	1	604	-	1/1/13/20	3/8/82/115	-
40	LUT	r	614	-	-	2/29/67/67	0/2/2/2
39	CHL	g	607	-	3/3/22/26	5/20/118/137	-
36	LHG	g	618	32	-	9/38/38/53	-
34	BCR	C	518	-	-	2/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	CHL	Gg	310	9	3/3/20/26	6/12/110/137	-
32	CLA	R	602	3	1/1/20/20	18/37/115/115	-
34	BCR	Cc	516	-	-	4/29/63/63	0/2/2/2
39	CHL	22	605	-	3/3/19/26	2/10/104/137	-
42	NEX	Y	617	-	-	2/27/83/83	0/3/3/3
39	CHL	22	601	14	3/3/19/26	3/10/104/137	-
32	CLA	2	610	-	1/1/13/20	3/8/82/115	-
32	CLA	G	603	-	1/1/20/20	11/37/115/115	-
32	CLA	b	602	-	1/1/20/20	14/37/115/115	-
39	CHL	G	609	9	3/3/20/26	3/12/110/137	-
32	CLA	Dd	402	-	1/1/20/20	14/37/115/115	-
39	CHL	33	601	15	3/3/19/26	5/10/104/137	-
32	CLA	Cc	515	-	1/1/14/20	9/11/89/115	-
32	CLA	1	603	-	1/1/13/20	5/8/82/115	-
32	CLA	y	313	36	1/1/14/20	3/10/88/115	-
32	CLA	Bb	616	-	1/1/20/20	12/37/115/115	-
32	CLA	Rr	613	3	1/1/16/20	8/18/96/115	-
39	CHL	G	607	-	3/3/21/26	6/15/113/137	-
36	LHG	d	405	-	-	9/47/47/53	-
32	CLA	b	613	-	1/1/20/20	14/37/115/115	-
39	CHL	2	605	-	3/3/19/26	2/10/104/137	-
40	LUT	2	614	-	-	4/29/67/67	0/2/2/2
32	CLA	CC	509	-	1/1/20/20	16/37/115/115	-
39	CHL	N	608	-	3/3/20/26	3/10/108/137	-
41	XAT	RR	316	-	-	0/31/93/93	0/4/4/4
40	LUT	NN	616	-	-	2/29/67/67	0/2/2/2
40	LUT	Gg	317	-	-	1/29/67/67	0/2/2/2
40	LUT	n	616	-	-	3/29/67/67	0/2/2/2
32	CLA	a	407	-	1/1/16/20	6/18/96/115	-
32	CLA	Gg	304	-	1/1/20/20	13/37/115/115	-
40	LUT	R	615	-	-	0/29/67/67	0/2/2/2
39	CHL	GG	608	-	3/3/20/26	6/10/108/137	-
32	CLA	DD	403	-	1/1/20/20	13/37/115/115	-
42	NEX	YY	617	-	-	2/27/83/83	0/3/3/3
32	CLA	BB	612	-	1/1/20/20	14/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	CHL	2	608	14	3/3/19/26	3/10/104/137	-
36	LHG	CC	521	-	-	7/38/38/53	-
32	CLA	S	612	4	1/1/16/20	6/18/96/115	-
32	CLA	Bb	604	-	1/1/20/20	9/37/115/115	-
32	CLA	11	613	-	1/1/13/20	2/8/82/115	-
32	CLA	Gg	313	9	1/1/16/20	12/18/96/115	-
40	LUT	s	614	-	-	2/29/67/67	0/2/2/2
32	CLA	b	607	-	1/1/20/20	11/37/115/115	-
38	LMG	Aa	412	-	-	7/37/57/70	0/1/1/1
36	LHG	DD	408	-	-	10/53/53/53	-
38	LMG	AA	415	-	-	4/31/51/70	0/1/1/1
36	LHG	AA	411	-	-	13/38/38/53	-
32	CLA	CC	512	18	1/1/20/20	16/37/115/115	-
39	CHL	Gg	302	9	3/3/26/26	12/39/137/137	-
36	LHG	Nn	310	32	-	16/53/53/53	-
37	SQD	L	102	-	-	10/31/51/69	0/1/1/1
39	CHL	SS	302	4	3/3/23/26	8/23/121/137	-
39	CHL	Gg	306	9	3/3/20/26	6/12/110/137	-
38	LMG	WW	201	-	-	8/43/63/70	0/1/1/1
36	LHG	Dd	407	-	-	5/41/41/53	-
32	CLA	4	312	-	1/1/15/20	7/13/91/115	-
32	CLA	Gg	311	9	1/1/16/20	9/18/96/115	-
34	BCR	B	613	-	-	4/29/63/63	0/2/2/2
36	LHG	33	614	32	-	11/38/38/53	-
39	CHL	44	601	-	3/3/21/26	2/13/111/137	-
38	LMG	Mm	101	-	-	10/46/66/70	0/1/1/1
40	LUT	g	616	-	-	2/29/67/67	0/2/2/2
38	LMG	C	521	-	-	10/46/66/70	0/1/1/1
32	CLA	RR	309	3	1/1/20/20	10/37/115/115	-
36	LHG	C	522	-	-	9/35/35/53	-
32	CLA	y	306	-	1/1/16/20	8/18/96/115	-
41	XAT	44	613	-	-	0/31/93/93	0/4/4/4
32	CLA	3	613	-	1/1/13/20	4/8/82/115	-
32	CLA	2	613	-	1/1/13/20	2/8/82/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	CLA	c	513	-	1/1/14/20	9/11/89/115	-
32	CLA	11	602	14	1/1/13/20	2/8/82/115	-
32	CLA	g	612	9	1/1/16/20	12/18/96/115	-
32	CLA	NN	611	36	1/1/16/20	12/18/96/115	-
32	CLA	Bb	603	-	1/1/20/20	17/37/115/115	-
39	CHL	Gg	309	-	3/3/20/26	3/10/108/137	-
32	CLA	C	515	-	1/1/16/20	8/18/96/115	-
39	CHL	NN	605	9	3/3/20/26	5/10/108/137	-
32	CLA	C	503	-	1/1/20/20	13/37/115/115	-
32	CLA	B	622	-	1/1/20/20	19/37/115/115	-
32	CLA	S	604	-	1/1/16/20	7/18/96/115	-
32	CLA	CC	513	-	1/1/20/20	8/37/115/115	-
34	BCR	H	101	-	-	3/29/63/63	0/2/2/2
32	CLA	b	614	-	1/1/20/20	7/37/115/115	-
32	CLA	RR	308	3	1/1/16/20	8/18/96/115	-
39	CHL	22	606	-	3/3/19/26	2/10/104/137	-
42	NEX	R	617	-	-	2/27/83/83	0/3/3/3
32	CLA	2	604	-	1/1/13/20	3/8/82/115	-
39	CHL	n	607	-	3/3/26/26	17/39/137/137	-
32	CLA	Nn	312	9	1/1/20/20	13/37/115/115	-
39	CHL	Nn	319	9	3/3/22/26	7/20/118/137	-
39	CHL	S	601	4	3/3/23/26	8/23/121/137	-
36	LHG	EE	101	-	-	9/44/44/53	-
39	CHL	33	605	-	3/3/19/26	3/10/104/137	-
34	BCR	KK	103	-	-	4/29/63/63	0/2/2/2
39	CHL	44	605	-	3/3/21/26	5/15/113/137	-
32	CLA	RR	314	3	-	11/18/96/115	-
37	SQD	C	501	-	-	16/49/69/69	0/1/1/1
32	CLA	Y	603	-	1/1/16/20	8/18/96/115	-
32	CLA	s	613	-	1/1/16/20	4/18/96/115	-
38	LMG	F	101	-	-	3/41/61/70	0/1/1/1
39	CHL	R	607	-	3/3/22/26	8/20/118/137	-
32	CLA	S	602	4	1/1/16/20	9/18/96/115	-
32	CLA	SS	314	-	1/1/16/20	7/18/96/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	CHL	s	606	-	3/3/22/26	11/20/118/137	-
32	CLA	C	507	-	1/1/20/20	13/37/115/115	-
32	CLA	D	404	-	1/1/20/20	16/37/115/115	-
32	CLA	R	612	3	1/1/14/20	1/10/88/115	-
32	CLA	BB	606	-	1/1/20/20	12/37/115/115	-
32	CLA	RR	312	3	1/1/14/20	2/10/88/115	-
32	CLA	Bb	602	-	1/1/20/20	11/37/115/115	-
32	CLA	Bb	614	-	1/1/20/20	8/37/115/115	-
32	CLA	b	616	-	1/1/20/20	12/37/115/115	-
39	CHL	Yy	606	-	3/3/20/26	3/13/111/137	-
32	CLA	GG	613	9	1/1/13/20	4/8/82/115	-
32	CLA	d	402	-	1/1/20/20	10/37/115/115	-
41	XAT	G	619	-	-	1/31/93/93	0/4/4/4
32	CLA	B	624	-	1/1/20/20	11/37/115/115	-
32	CLA	c	502	-	1/1/20/20	9/37/115/115	-
32	CLA	g	604	42	1/1/14/20	6/10/88/115	-
33	PHO	a	408	-	-	8/37/103/103	0/5/6/6
32	CLA	33	602	15	1/1/13/20	2/8/82/115	-
39	CHL	GG	601	9	3/3/26/26	11/39/137/137	-
32	CLA	g	611	36	1/1/20/20	17/37/115/115	-
39	CHL	y	310	-	3/3/22/26	6/20/118/137	-
32	CLA	G	611	36	1/1/17/20	8/22/100/115	-
32	CLA	Y	611	36	1/1/14/20	3/10/88/115	-
32	CLA	AA	405	-	1/1/20/20	14/37/115/115	-
32	CLA	CC	506	-	1/1/20/20	17/37/115/115	-
39	CHL	Nn	311	9	3/3/22/26	6/20/118/137	-
34	BCR	Bb	617	-	-	5/29/63/63	0/2/2/2
39	CHL	G	605	9	3/3/20/26	4/12/110/137	-
39	CHL	G	606	-	3/3/20/26	5/12/110/137	-
40	LUT	GG	616	-	-	2/29/67/67	0/2/2/2
32	CLA	Ss	604	-	1/1/16/20	10/18/96/115	-
32	CLA	44	602	11	1/1/15/20	8/13/91/115	-
40	LUT	N	616	-	-	3/29/67/67	0/2/2/2
32	CLA	3	604	-	1/1/13/20	3/8/82/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	CLA	RR	304	-	1/1/16/20	5/18/96/115	-
32	CLA	R	614	3	-	8/18/96/115	-
40	LUT	Yy	615	-	-	3/29/67/67	0/2/2/2
32	CLA	Rr	608	3	1/1/16/20	12/18/96/115	-
32	CLA	SS	304	-	1/1/15/20	3/13/91/115	-
32	CLA	3	602	15	1/1/13/20	2/8/82/115	-
34	BCR	c	514	-	-	4/29/63/63	0/2/2/2
33	PHO	D	402	-	-	9/37/103/103	0/5/6/6
32	CLA	y	316	-	1/1/16/20	8/18/96/115	-
36	LHG	SS	301	-	-	4/30/30/53	-
39	CHL	Nn	317	-	3/3/26/26	14/39/137/137	-
37	SQD	L	101	-	-	16/49/69/69	0/1/1/1
32	CLA	g	613	9	1/1/13/20	6/8/82/115	-
34	BCR	BB	617	-	-	4/29/63/63	0/2/2/2
32	CLA	CC	510	-	1/1/20/20	13/37/115/115	-
32	CLA	2	612	14	1/1/13/20	2/8/82/115	-
46	HEM	EE	102	20,21	-	0/12/54/54	-
32	CLA	3	603	-	1/1/13/20	3/8/82/115	-
41	XAT	Nn	308	-	-	1/31/93/93	0/4/4/4
32	CLA	Ss	610	36	1/1/16/20	8/18/96/115	-
39	CHL	22	607	-	3/3/19/26	3/10/104/137	-
32	CLA	RR	311	-	1/1/16/20	6/18/96/115	-
32	CLA	GG	611	36	1/1/17/20	8/22/100/115	-
32	CLA	RR	303	-	1/1/16/20	3/18/96/115	-
37	SQD	B	617	-	-	5/31/51/69	0/1/1/1
39	CHL	g	605	9	3/3/20/26	6/12/110/137	-
32	CLA	n	614	-	1/1/16/20	8/18/96/115	-
32	CLA	11	612	-	1/1/13/20	3/8/82/115	-
32	CLA	s	611	4	1/1/16/20	10/18/96/115	-
32	CLA	B	620	-	1/1/20/20	10/37/115/115	-
39	CHL	Ss	607	-	3/3/22/26	6/19/117/137	-
32	CLA	S	603	-	1/1/15/20	4/13/91/115	-
32	CLA	G	613	9	1/1/13/20	5/8/82/115	-
32	CLA	33	612	15	1/1/13/20	5/8/82/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	CLA	b	605	-	1/1/20/20	11/37/115/115	-
39	CHL	s	605	-	3/3/22/26	9/20/118/137	-
34	BCR	CC	516	-	-	5/29/63/63	0/2/2/2
40	LUT	RR	315	-	-	2/29/67/67	0/2/2/2
32	CLA	Bb	606	-	1/1/20/20	7/37/115/115	-
39	CHL	Ss	605	-	3/3/22/26	12/20/118/137	-
36	LHG	4	315	32	-	8/23/23/53	-
32	CLA	g	602	9	-	7/18/96/115	-
32	CLA	d	401	-	-	11/37/115/115	-
44	DGD	a	415	-	-	9/44/84/95	0/2/2/2
32	CLA	n	610	9	1/1/20/20	12/37/115/115	-
32	CLA	R	604	-	1/1/16/20	5/18/96/115	-
39	CHL	g	608	-	3/3/20/26	2/10/108/137	-
32	CLA	c	512	-	1/1/20/20	8/37/115/115	-
39	CHL	NN	601	9	3/3/20/26	3/13/111/137	-
32	CLA	s	602	4	1/1/16/20	11/18/96/115	-
32	CLA	3	609	15	1/1/13/20	3/8/82/115	-
39	CHL	RR	305	-	3/3/22/26	8/20/118/137	-
34	BCR	CC	515	-	-	6/29/63/63	0/2/2/2
34	BCR	CC	517	-	-	2/29/63/63	0/2/2/2
32	CLA	s	603	-	1/1/16/20	9/18/96/115	-
32	CLA	4	304	-	1/1/15/20	5/13/91/115	-
39	CHL	44	606	-	3/3/21/26	4/15/113/137	-
32	CLA	2	611	14	1/1/13/20	3/8/82/115	-
32	CLA	B	607	-	1/1/20/20	8/37/115/115	-
39	CHL	Y	609	9	3/3/26/26	10/39/137/137	-
32	CLA	g	603	-	1/1/20/20	16/37/115/115	-
32	CLA	y	304	9	1/1/20/20	13/37/115/115	-
40	LUT	4	313	-	-	2/29/67/67	0/2/2/2
32	CLA	c	510	-	1/1/20/20	17/37/115/115	-
39	CHL	44	607	-	3/3/21/26	7/15/113/137	-
40	LUT	y	317	-	-	3/29/67/67	0/2/2/2
34	BCR	K	102	-	-	5/29/63/63	0/2/2/2
32	CLA	BB	610	-	1/1/20/20	15/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	CLA	SS	313	4	1/1/16/20	8/18/96/115	-
32	CLA	r	601	3	1/1/16/20	10/18/96/115	-
39	CHL	y	307	9	3/3/21/26	8/18/116/137	-
32	CLA	11	604	-	1/1/13/20	4/8/82/115	-
32	CLA	y	312	9	1/1/20/20	12/37/115/115	-
32	CLA	CC	514	-	1/1/16/20	8/18/96/115	-
34	BCR	c	516	-	-	4/29/63/63	0/2/2/2
40	LUT	YY	616	-	-	2/29/67/67	0/2/2/2
41	XAT	y	302	-	-	1/31/93/93	0/4/4/4
34	BCR	Aa	411	-	-	4/29/63/63	0/2/2/2
32	CLA	c	507	-	1/1/20/20	10/37/115/115	-
32	CLA	Y	613	9	1/1/18/20	13/30/108/115	-
36	LHG	K	101	-	-	11/38/38/53	-
39	CHL	Rr	607	-	3/3/22/26	8/20/118/137	-
34	BCR	b	617	-	-	4/29/63/63	0/2/2/2
32	CLA	n	604	-	1/1/16/20	6/18/96/115	-
32	CLA	Bb	605	-	1/1/20/20	13/37/115/115	-
36	LHG	DD	407	-	-	14/47/47/53	-
32	CLA	N	614	-	1/1/14/20	3/8/86/115	-
32	CLA	SS	311	-	1/1/16/20	6/18/96/115	-
32	CLA	Bb	612	-	1/1/20/20	15/37/115/115	-
38	LMG	CC	520	-	-	3/34/54/70	0/1/1/1
40	LUT	y	318	-	-	2/29/67/67	0/2/2/2
32	CLA	Gg	312	36	1/1/20/20	17/37/115/115	-
40	LUT	44	612	-	-	2/29/67/67	0/2/2/2
32	CLA	s	609	4	1/1/16/20	8/18/96/115	-
32	CLA	Gg	315	-	1/1/16/20	9/18/96/115	-
32	CLA	A	408	-	1/1/19/20	8/31/109/115	-
32	CLA	NN	604	-	1/1/14/20	5/8/86/115	-
36	LHG	A	411	-	-	12/38/38/53	-
32	CLA	Yy	614	-	1/1/16/20	8/18/96/115	-
39	CHL	Ss	606	-	3/3/22/26	11/20/118/137	-
39	CHL	n	601	9	3/3/22/26	6/20/118/137	-
42	NEX	Nn	309	-	-	2/27/83/83	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	CLA	b	608	-	1/1/20/20	8/37/115/115	-
39	CHL	S	607	-	3/3/20/26	2/12/110/137	-
32	CLA	Aa	410	-	1/1/19/20	10/31/109/115	-
39	CHL	SS	306	4	3/3/20/26	3/10/108/137	-
39	CHL	YY	606	-	3/3/20/26	5/13/111/137	-
38	LMG	b	621	-	-	9/31/51/70	0/1/1/1
32	CLA	Rr	601	3	1/1/16/20	11/18/96/115	-
32	CLA	C	504	-	-	14/37/115/115	-
34	BCR	b	619	-	-	4/29/63/63	0/2/2/2
42	NEX	N	618	-	-	2/27/83/83	0/3/3/3
39	CHL	3	601	15	3/3/19/26	5/10/104/137	-
32	CLA	NN	602	9	1/1/20/20	14/37/115/115	-
44	DGD	BB	625	-	-	3/43/83/95	0/2/2/2
34	BCR	XX	202	-	-	6/29/63/63	0/2/2/2
34	BCR	D	406	-	-	2/29/63/63	0/2/2/2
44	DGD	Aa	401	-	-	9/44/84/95	0/2/2/2
32	CLA	YY	611	36	1/1/14/20	2/10/88/115	-
39	CHL	G	608	-	3/3/20/26	6/10/108/137	-
32	CLA	22	611	14	1/1/13/20	2/8/82/115	-
35	PL9	AA	410	-	-	27/53/73/73	0/1/1/1
39	CHL	NN	609	9	3/3/22/26	6/20/118/137	-
36	LHG	D	409	-	-	7/53/53/53	-
37	SQD	Ll	101	-	-	9/49/69/69	0/1/1/1
41	XAT	r	615	-	-	1/31/93/93	0/4/4/4
39	CHL	4	308	-	3/3/21/26	6/15/113/137	-
36	LHG	Yy	618	32	-	19/53/53/53	-
32	CLA	R	603	-	1/1/16/20	3/18/96/115	-
32	CLA	r	610	36	1/1/16/20	10/18/96/115	-
32	CLA	Nn	303	9	1/1/16/20	6/18/96/115	-
32	CLA	DD	401	-	1/1/20/20	6/37/115/115	-
32	CLA	Bb	610	-	1/1/20/20	14/37/115/115	-
44	DGD	c	518	-	-	6/41/81/95	0/2/2/2
39	CHL	Nn	318	-	3/3/22/26	7/20/118/137	-
40	LUT	n	615	-	-	2/29/67/67	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	CLA	c	506	-	1/1/20/20	18/37/115/115	-
37	SQD	l	102	-	-	10/49/69/69	0/1/1/1
32	CLA	D	401	-	1/1/20/20	8/37/115/115	-
32	CLA	r	609	3	1/1/20/20	13/37/115/115	-
39	CHL	s	601	4	3/3/23/26	10/23/121/137	-
32	CLA	22	604	-	1/1/13/20	2/8/82/115	-
32	CLA	N	610	9	1/1/20/20	13/37/115/115	-
32	CLA	BB	603	-	1/1/20/20	13/37/115/115	-
39	CHL	Yy	605	9	3/3/21/26	9/18/116/137	-
36	LHG	N	619	32	-	11/42/42/53	-
32	CLA	Yy	604	-	1/1/16/20	10/18/96/115	-
37	SQD	B	602	-	-	10/42/62/69	0/1/1/1
32	CLA	r	612	3	1/1/16/20	4/18/96/115	-
39	CHL	SS	307	-	3/3/20/26	1/10/108/137	-
32	CLA	R	611	-	1/1/16/20	6/18/96/115	-
32	CLA	NN	612	9	1/1/14/20	4/10/88/115	-
34	BCR	BB	620	-	-	5/29/63/63	0/2/2/2
36	LHG	NN	619	32	-	10/42/42/53	-
33	PHO	Aa	409	-	-	16/37/103/103	0/5/6/6
42	NEX	Y	619	-	-	3/27/83/83	0/3/3/3
32	CLA	BB	609	-	-	13/37/115/115	-
42	NEX	Rr	616	-	-	3/27/83/83	0/3/3/3
34	BCR	AA	409	-	-	5/29/63/63	0/2/2/2
32	CLA	S	608	4	1/1/14/20	6/8/86/115	-
39	CHL	Yy	609	9	3/3/26/26	11/39/137/137	-
39	CHL	N	609	9	3/3/22/26	6/20/118/137	-
32	CLA	Bb	613	-	1/1/20/20	14/37/115/115	-
44	DGD	C	523	-	-	9/41/81/95	0/2/2/2
32	CLA	3	610	36	1/1/13/20	6/8/82/115	-
34	BCR	k	101	-	-	6/29/63/63	0/2/2/2
32	CLA	n	603	-	1/1/16/20	10/18/96/115	-
32	CLA	Rr	610	36	1/1/16/20	11/18/96/115	-
39	CHL	YY	605	9	3/3/21/26	6/18/116/137	-
34	BCR	TT	101	-	-	5/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	CLA	Bb	615	-	1/1/20/20	14/37/115/115	-
32	CLA	YY	613	9	1/1/18/20	9/30/108/115	-
39	CHL	n	606	-	3/3/22/26	1/20/118/137	-
34	BCR	Cc	517	-	-	5/29/63/63	0/2/2/2
32	CLA	4	305	-	1/1/15/20	6/13/91/115	-
32	CLA	YY	604	-	-	11/18/96/115	-
32	CLA	Yy	603	-	1/1/16/20	6/18/96/115	-
41	XAT	Yy	619	-	-	3/31/93/93	0/4/4/4
32	CLA	b	612	-	1/1/20/20	13/37/115/115	-
32	CLA	XX	201	-	1/1/14/20	2/8/86/115	-
44	DGD	Cc	520	-	-	7/41/81/95	0/2/2/2
32	CLA	Rr	612	3	1/1/16/20	7/18/96/115	-
36	LHG	Ss	616	32	-	9/52/52/53	-
32	CLA	CC	502	-	1/1/20/20	15/37/115/115	-
34	BCR	C	516	-	-	6/29/63/63	0/2/2/2
36	LHG	GG	618	32	-	7/38/38/53	-
40	LUT	NN	615	-	-	2/29/67/67	0/2/2/2
39	CHL	44	608	11	3/3/21/26	4/15/113/137	-
37	SQD	BB	621	-	-	5/31/51/69	0/1/1/1
32	CLA	2	603	-	1/1/13/20	3/8/82/115	-
39	CHL	4	302	-	3/3/21/26	2/13/111/137	-
36	LHG	II	101	-	-	11/38/38/53	-
36	LHG	l	101	-	-	13/53/53/53	-
32	CLA	44	610	36	1/1/15/20	6/13/91/115	-
42	NEX	n	617	-	-	3/27/83/83	0/3/3/3
32	CLA	Y	602	9	1/1/20/20	18/37/115/115	-
32	CLA	Y	614	-	1/1/16/20	11/18/96/115	-
44	DGD	CC	519	-	-	5/51/91/95	0/2/2/2
32	CLA	Cc	513	18	1/1/20/20	9/37/115/115	-
39	CHL	n	608	-	3/3/22/26	9/20/118/137	-
32	CLA	BB	601	-	1/1/20/20	10/37/115/115	-
32	CLA	Cc	511	-	1/1/20/20	16/37/115/115	-
32	CLA	CC	511	-	1/1/20/20	8/37/115/115	-
32	CLA	a	410	-	1/1/19/20	9/31/109/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
40	LUT	G	616	-	-	2/29/67/67	0/2/2/2
40	LUT	N	615	-	-	1/29/67/67	0/2/2/2
34	BCR	Hh	101	-	-	8/29/63/63	0/2/2/2
36	LHG	4	301	32	-	9/21/21/53	-
32	CLA	Cc	512	-	1/1/20/20	15/37/115/115	-
36	LHG	Gg	319	32	-	7/38/38/53	-
44	DGD	B	603	-	-	6/43/83/95	0/2/2/2
32	CLA	S	611	4	1/1/16/20	9/18/96/115	-
32	CLA	Bb	608	-	1/1/20/20	9/37/115/115	-
32	CLA	Bb	609	-	1/1/20/20	17/37/115/115	-
39	CHL	4	307	-	3/3/21/26	4/15/113/137	-
39	CHL	S	605	-	3/3/20/26	3/10/108/137	-
32	CLA	Cc	506	-	1/1/18/20	7/25/103/115	-
41	XAT	4	314	-	-	0/31/93/93	0/4/4/4
32	CLA	BB	614	-	1/1/20/20	8/37/115/115	-
39	CHL	r	605	3	3/3/22/26	8/20/118/137	-
32	CLA	11	611	14	1/1/13/20	2/8/82/115	-
39	CHL	33	607	-	3/3/19/26	3/10/104/137	-
38	LMG	W	201	-	-	6/43/63/70	0/1/1/1
32	CLA	S	610	-	1/1/16/20	7/18/96/115	-
32	CLA	a	406	1	1/1/20/20	11/37/115/115	-
40	LUT	GG	615	-	-	2/29/67/67	0/2/2/2
37	SQD	CC	501	-	-	11/49/69/69	0/1/1/1
34	BCR	A	409	-	-	5/29/63/63	0/2/2/2
40	LUT	s	615	-	-	2/29/67/67	0/2/2/2
44	DGD	BB	624	-	-	9/44/84/95	0/2/2/2
32	CLA	R	609	3	1/1/20/20	10/37/115/115	-
32	CLA	Rr	603	-	1/1/16/20	6/18/96/115	-
39	CHL	g	601	9	3/3/26/26	12/39/137/137	-
34	BCR	B	614	-	-	4/29/63/63	0/2/2/2
32	CLA	44	604	-	1/1/15/20	6/13/91/115	-
44	DGD	C	520	-	-	4/51/91/95	0/2/2/2
38	LMG	b	620	-	-	4/31/51/70	0/1/1/1
40	LUT	Yy	616	-	-	3/29/67/67	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
34	BCR	C	517	-	-	5/29/63/63	0/2/2/2
32	CLA	YY	612	9	1/1/18/20	12/29/107/115	-
32	CLA	Rr	609	3	1/1/20/20	13/37/115/115	-
32	CLA	Y	604	-	-	11/18/96/115	-
38	LMG	j	101	-	-	3/41/61/70	0/1/1/1
32	CLA	X	201	-	1/1/14/20	3/8/86/115	-
34	BCR	b	618	-	-	4/29/63/63	0/2/2/2
32	CLA	GG	602	9	1/1/16/20	7/18/96/115	-
32	CLA	Cc	503	-	1/1/20/20	16/37/115/115	-
32	CLA	Y	612	9	1/1/20/20	11/37/115/115	-
34	BCR	BB	618	-	-	4/29/63/63	0/2/2/2
32	CLA	l	609	14	1/1/13/20	2/8/82/115	-
39	CHL	Rr	605	3	3/3/22/26	8/20/118/137	-
32	CLA	SS	312	4	1/1/16/20	8/18/96/115	-
32	CLA	33	610	36	1/1/13/20	5/8/82/115	-
32	CLA	C	506	-	1/1/20/20	7/37/115/115	-
36	LHG	D	410	-	-	10/38/38/53	-
42	NEX	y	319	-	-	3/27/83/83	0/3/3/3
32	CLA	RR	310	36	1/1/16/20	11/18/96/115	-
38	LMG	BB	619	-	-	10/40/60/70	0/1/1/1
36	LHG	a	414	-	-	5/41/41/53	-
39	CHL	y	308	-	3/3/20/26	2/13/111/137	-
43	LMU	KK	102	-	-	5/13/53/61	0/2/2/2
32	CLA	SS	310	4	1/1/14/20	3/8/86/115	-
39	CHL	11	607	-	3/3/19/26	2/10/104/137	-
32	CLA	Cc	514	-	1/1/20/20	8/37/115/115	-
34	BCR	B	616	-	-	4/29/63/63	0/2/2/2
39	CHL	YY	607	-	3/3/20/26	2/12/110/137	-
39	CHL	N	606	-	3/3/20/26	1/10/108/137	-
41	XAT	G	617	-	-	2/31/93/93	0/4/4/4
36	LHG	Dd	405	-	-	9/47/47/53	-
41	XAT	R	616	-	-	0/31/93/93	0/4/4/4
32	CLA	44	603	-	1/1/15/20	8/13/91/115	-
32	CLA	S	609	4	1/1/14/20	2/8/86/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	PHO	DD	402	-	-	11/37/103/103	0/5/6/6
32	CLA	BB	604	-	1/1/20/20	13/37/115/115	-
32	CLA	b	615	-	1/1/20/20	14/37/115/115	-
32	CLA	1	612	14	1/1/13/20	1/8/82/115	-
32	CLA	Cc	505	-	1/1/20/20	13/37/115/115	-
36	LHG	s	616	32	-	9/52/52/53	-
37	SQD	Aa	413	-	-	10/42/62/69	0/1/1/1
39	CHL	y	309	-	3/3/20/26	4/12/110/137	-
39	CHL	GG	605	9	3/3/20/26	3/12/110/137	-
32	CLA	DD	404	-	1/1/20/20	8/37/115/115	-
32	CLA	b	606	-	1/1/20/20	8/37/115/115	-
32	CLA	Ss	612	4	1/1/16/20	9/18/96/115	-
32	CLA	BB	605	-	1/1/20/20	16/37/115/115	-
32	CLA	NN	614	-	1/1/14/20	3/8/86/115	-
39	CHL	Gg	308	-	3/3/22/26	6/20/118/137	-
39	CHL	y	311	9	3/3/26/26	12/39/137/137	-
32	CLA	C	508	-	1/1/20/20	13/37/115/115	-
32	CLA	c	501	-	1/1/20/20	18/37/115/115	-
32	CLA	CC	508	-	1/1/20/20	10/37/115/115	-
33	PHO	A	407	-	-	11/37/103/103	0/5/6/6
36	LHG	BB	622	-	-	9/38/38/53	-
39	CHL	33	608	15	3/3/19/26	3/10/104/137	-
36	LHG	Rr	617	32	-	11/53/53/53	-
36	LHG	JJ	101	-	-	9/37/37/53	-
41	XAT	N	617	-	-	0/31/93/93	0/4/4/4
32	CLA	B	604	-	1/1/20/20	11/37/115/115	-
39	CHL	N	601	9	3/3/20/26	3/13/111/137	-
39	CHL	YY	608	-	3/3/22/26	6/20/118/137	-
39	CHL	Nn	315	9	3/3/21/26	6/18/116/137	-
40	LUT	Ss	614	-	-	2/29/67/67	0/2/2/2
38	LMG	m	101	-	-	13/46/66/70	0/1/1/1
34	BCR	c	515	-	-	5/29/63/63	0/2/2/2
39	CHL	1	601	14	3/3/19/26	4/10/104/137	-
32	CLA	n	612	9	1/1/16/20	7/18/96/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	CLA	Nn	313	-	1/1/16/20	10/18/96/115	-
36	LHG	44	614	32	-	7/23/23/53	-
32	CLA	B	606	-	1/1/20/20	16/37/115/115	-
32	CLA	NN	610	9	1/1/20/20	12/37/115/115	-
40	LUT	22	614	-	-	4/29/67/67	0/2/2/2
41	XAT	GG	619	-	-	1/31/93/93	0/4/4/4
32	CLA	R	610	36	1/1/16/20	11/18/96/115	-
32	CLA	g	614	-	1/1/16/20	9/18/96/115	-
38	LMG	Cc	501	-	-	7/29/49/70	0/1/1/1
32	CLA	Nn	301	9	1/1/20/20	12/37/115/115	-
32	CLA	G	612	9	1/1/16/20	8/18/96/115	-
32	CLA	YY	602	9	1/1/20/20	15/37/115/115	-
39	CHL	11	601	14	3/3/19/26	3/10/104/137	-
32	CLA	n	613	9	1/1/16/20	10/18/96/115	-
39	CHL	NN	607	-	3/3/26/26	12/39/137/137	-
33	PHO	AA	407	-	-	7/37/103/103	0/5/6/6
32	CLA	44	611	-	1/1/15/20	5/13/91/115	-
32	CLA	Ss	603	-	1/1/16/20	9/18/96/115	-
32	CLA	R	613	-	1/1/14/20	6/8/86/115	-
32	CLA	Nn	302	36	1/1/16/20	3/18/96/115	-
36	LHG	A	414	-	-	10/49/49/53	-
40	LUT	Y	615	-	-	4/29/67/67	0/2/2/2
32	CLA	c	505	-	1/1/20/20	12/37/115/115	-
35	PL9	d	404	-	-	28/53/73/73	0/1/1/1
32	CLA	11	610	36	1/1/13/20	3/8/82/115	-
32	CLA	Nn	304	9	1/1/16/20	9/18/96/115	-
39	CHL	n	605	9	3/3/21/26	8/18/116/137	-
32	CLA	C	505	-	1/1/20/20	16/37/115/115	-
34	BCR	B	612	-	-	4/29/63/63	0/2/2/2
39	CHL	S	606	-	3/3/20/26	1/10/108/137	-
32	CLA	s	612	4	1/1/16/20	9/18/96/115	-
32	CLA	2	609	14	1/1/13/20	2/8/82/115	-
32	CLA	G	610	9	1/1/16/20	7/18/96/115	-
32	CLA	Y	610	9	1/1/20/20	17/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	CHL	Y	601	9	3/3/26/26	14/39/137/137	-
32	CLA	CC	503	-	-	15/37/115/115	-
32	CLA	Ss	611	4	1/1/16/20	10/18/96/115	-
32	CLA	n	602	9	1/1/20/20	13/37/115/115	-
32	CLA	NN	603	-	1/1/14/20	6/10/88/115	-
32	CLA	b	611	-	1/1/20/20	7/37/115/115	-
38	LMG	Bb	621	-	-	8/31/51/70	0/1/1/1
32	CLA	CC	504	-	1/1/20/20	14/37/115/115	-
32	CLA	Rr	604	-	1/1/16/20	11/18/96/115	-
32	CLA	44	609	11	1/1/15/20	5/13/91/115	-
36	LHG	3	614	32	-	11/38/38/53	-
36	LHG	r	616	32	-	13/53/53/53	-
32	CLA	b	604	-	1/1/20/20	11/37/115/115	-
32	CLA	RR	302	3	1/1/20/20	17/37/115/115	-
42	NEX	Gg	318	-	-	3/27/83/83	0/3/3/3
34	BCR	Bb	618	-	-	4/29/63/63	0/2/2/2
32	CLA	3	612	15	1/1/13/20	4/8/82/115	-
36	LHG	44	616	32	-	8/21/21/53	-
32	CLA	b	610	-	1/1/20/20	9/37/115/115	-
39	CHL	G	601	9	3/3/26/26	14/39/137/137	-
37	SQD	AA	412	-	-	7/30/50/69	0/1/1/1
39	CHL	GG	607	-	3/3/21/26	6/15/113/137	-
39	CHL	11	605	14	3/3/19/26	4/10/104/137	-
39	CHL	y	303	9	3/3/26/26	14/39/137/137	-
32	CLA	GG	614	-	1/1/14/20	3/8/86/115	-
32	CLA	SS	305	-	1/1/16/20	8/18/96/115	-
36	LHG	11	614	32	-	16/38/38/53	-
36	LHG	Ll	102	-	-	15/53/53/53	-
32	CLA	BB	602	-	1/1/20/20	21/37/115/115	-
32	CLA	1	602	14	1/1/13/20	3/8/82/115	-
32	CLA	NN	613	9	1/1/16/20	9/18/96/115	-
44	DGD	Cc	519	-	-	8/44/84/95	0/2/2/2
39	CHL	Y	605	9	3/3/21/26	6/18/116/137	-
38	LMG	B	615	-	-	8/40/60/70	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	CLA	c	503	-	1/1/20/20	9/37/115/115	-
32	CLA	Cc	509	-	1/1/20/20	12/37/115/115	-
32	CLA	Yy	611	36	1/1/14/20	3/10/88/115	-
39	CHL	3	607	-	3/3/19/26	2/10/104/137	-
32	CLA	SS	309	4	1/1/14/20	5/8/86/115	-
38	LMG	c	519	-	-	7/29/49/70	0/1/1/1
35	PL9	DD	406	-	-	27/53/73/73	0/1/1/1

The worst 5 of 3906 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	AA	410	PL9	C23-C24	10.46	1.58	1.33
35	A	410	PL9	C23-C24	10.36	1.57	1.33
35	d	404	PL9	C23-C24	10.20	1.57	1.33
35	Dd	404	PL9	C23-C24	10.20	1.57	1.33
35	DD	406	PL9	C23-C24	10.17	1.57	1.33

The worst 5 of 5850 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BB	621	SQD	O9-S-C6	-19.31	83.99	106.94
37	B	617	SQD	O9-S-C6	-19.24	84.07	106.94
41	G	619	XAT	O24-C25-C24	14.32	124.14	113.38
41	GG	619	XAT	O24-C25-C24	14.28	124.11	113.38
41	g	619	XAT	O24-C25-C24	13.93	123.85	113.38

5 of 780 chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
32	A	405	CLA	ND
32	A	406	CLA	ND
32	A	408	CLA	ND
32	Rr	601	CLA	ND
32	Rr	602	CLA	ND

5 of 5753 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	A	406	CLA	CHA-CBD-CGD-O1D
32	A	406	CLA	CHA-CBD-CGD-O2D

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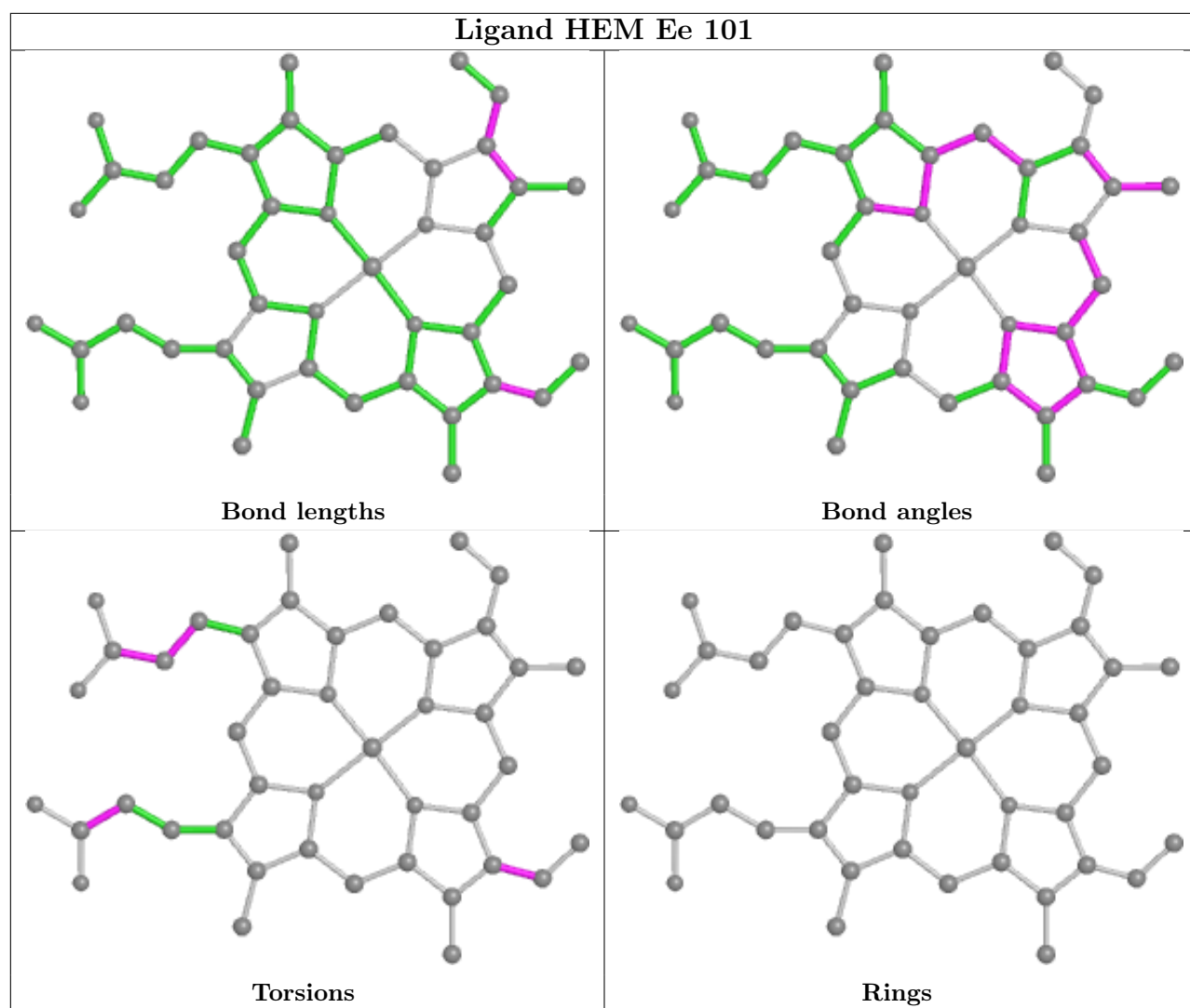
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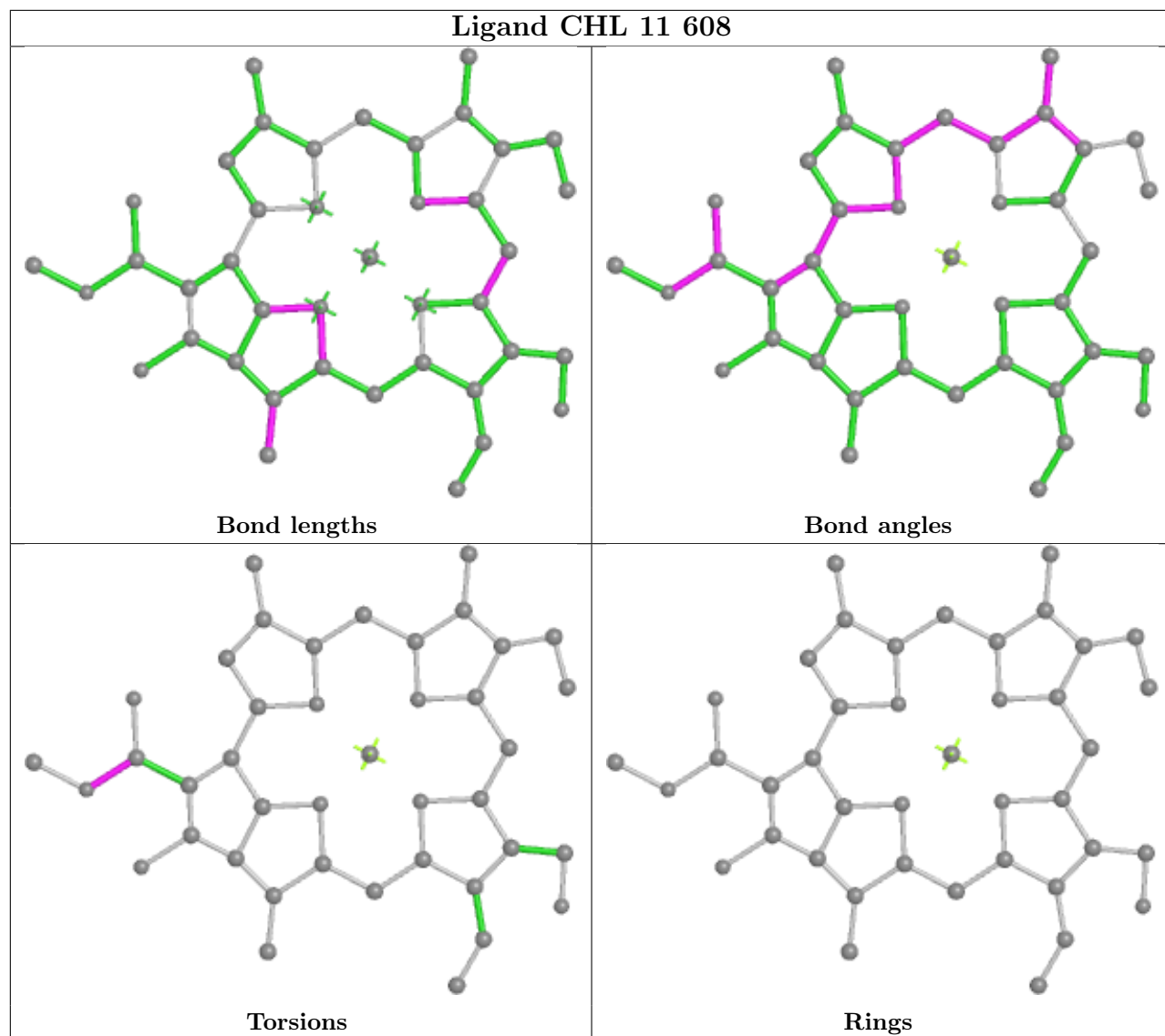
Mol	Chain	Res	Type	Atoms
32	A	408	CLA	CHA-CBD-CGD-O1D
32	A	408	CLA	CHA-CBD-CGD-O2D
32	A	408	CLA	CAD-CBD-CGD-O1D

There are no ring outliers.

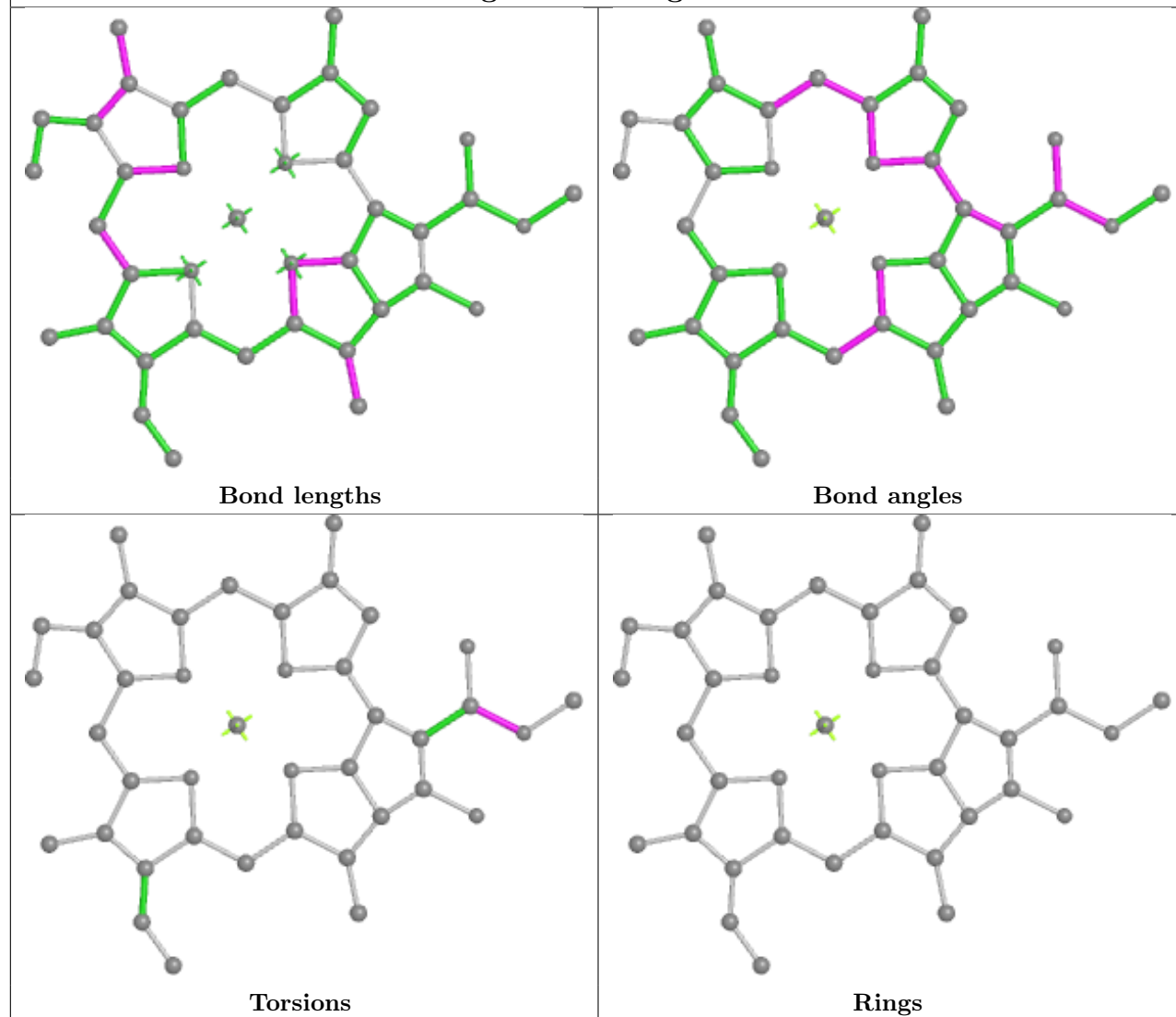
No monomer is involved in short contacts.

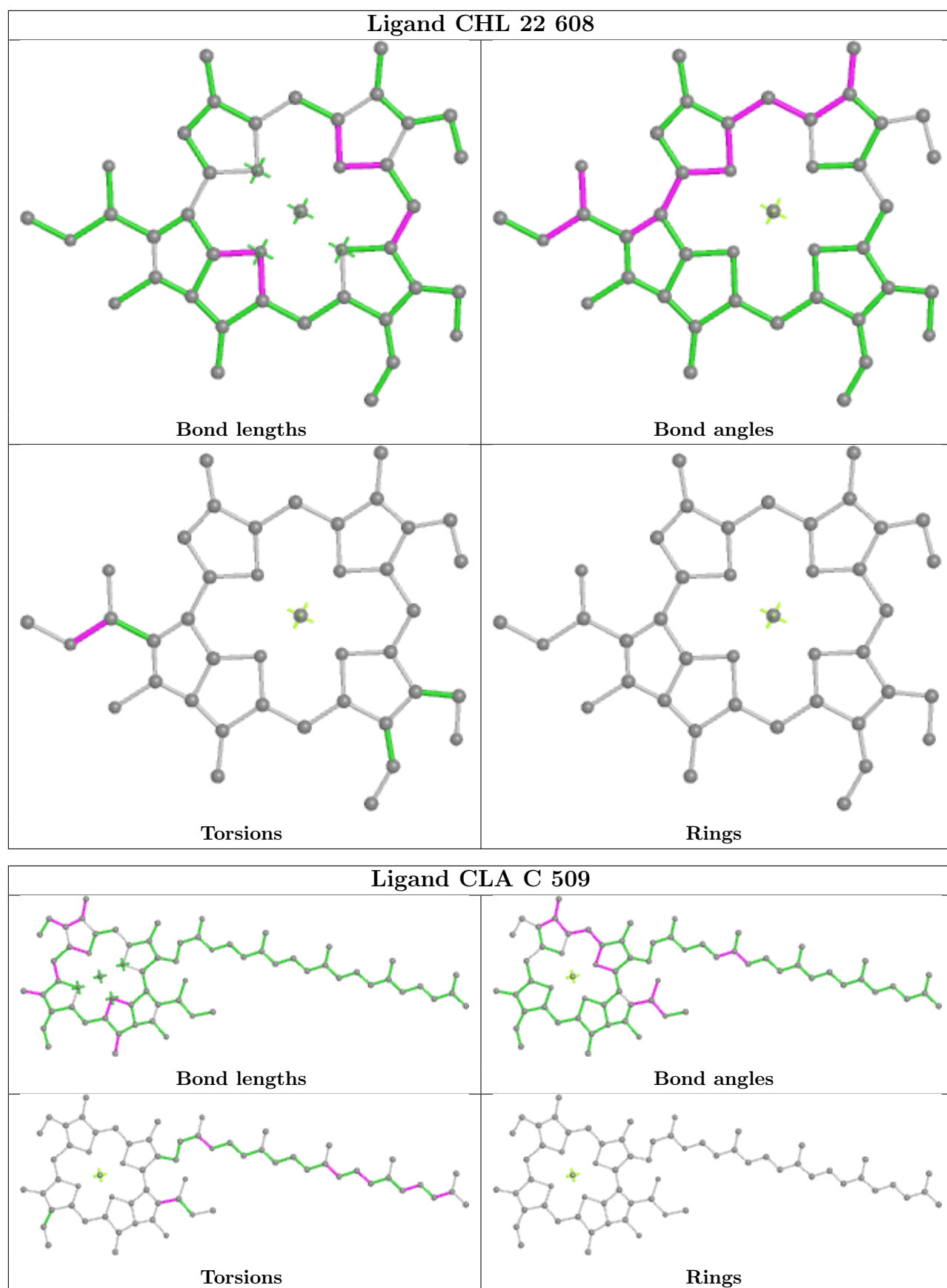
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.

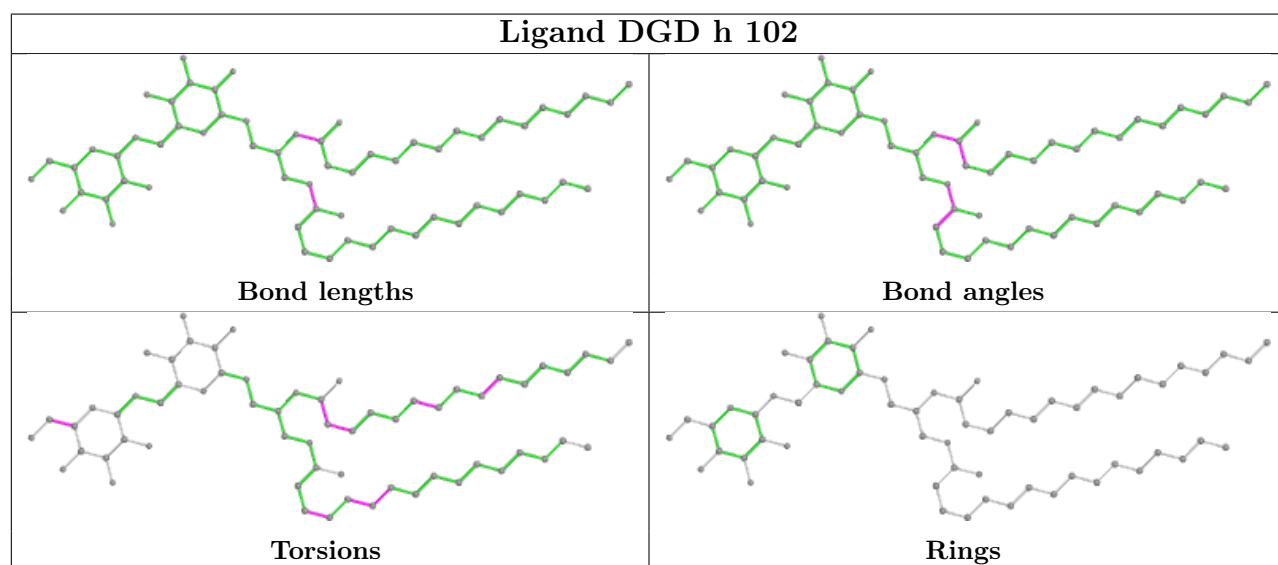
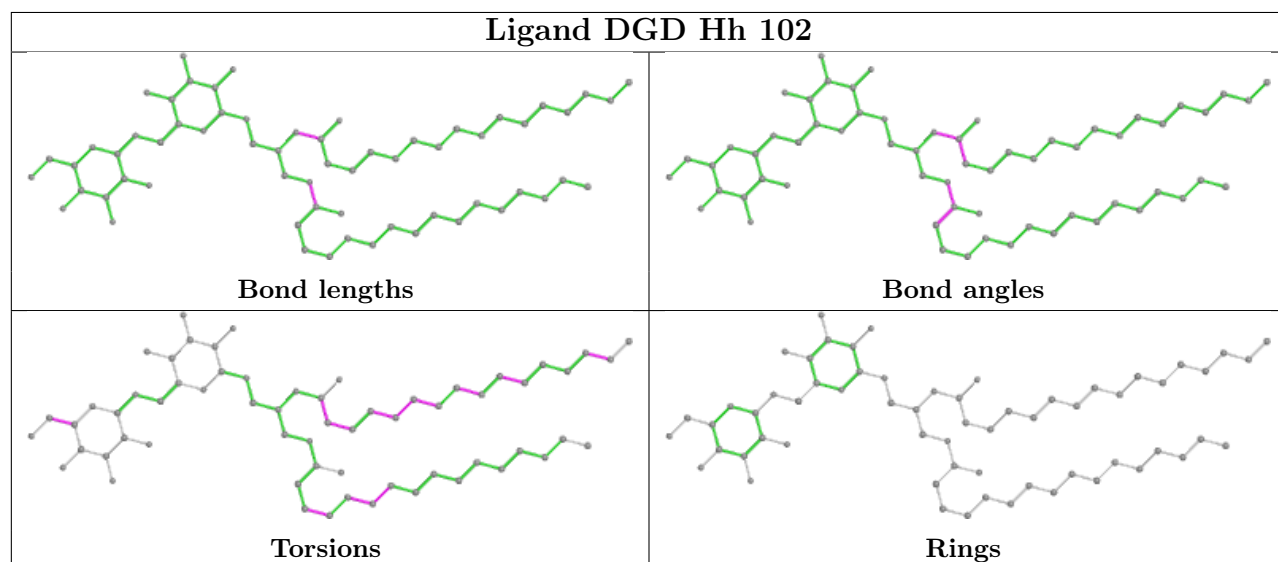
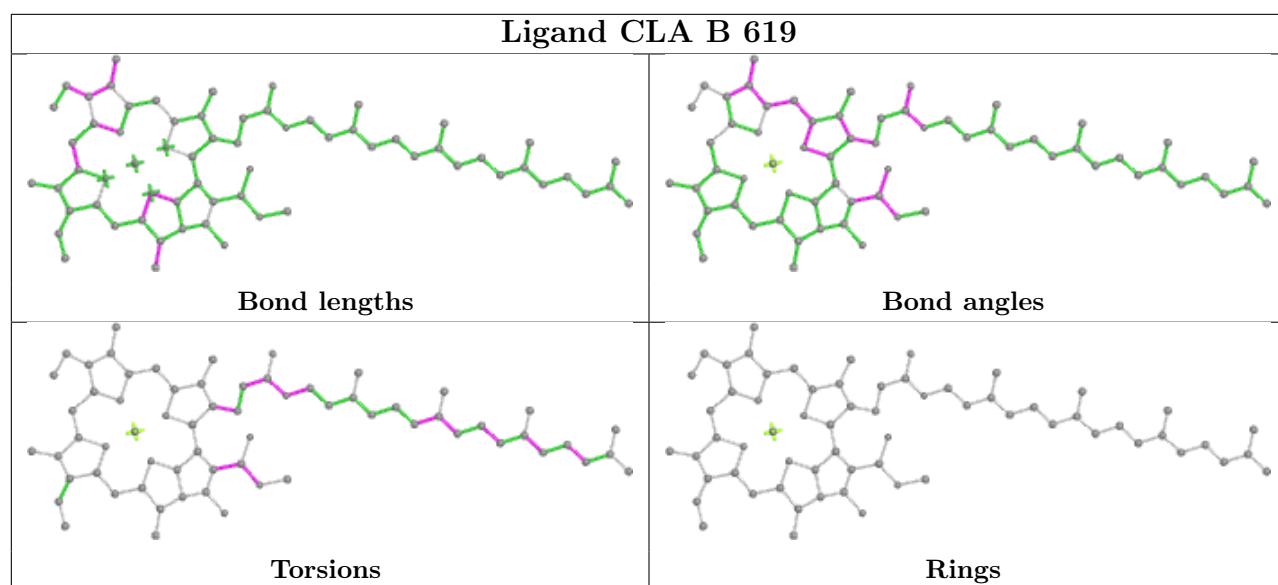




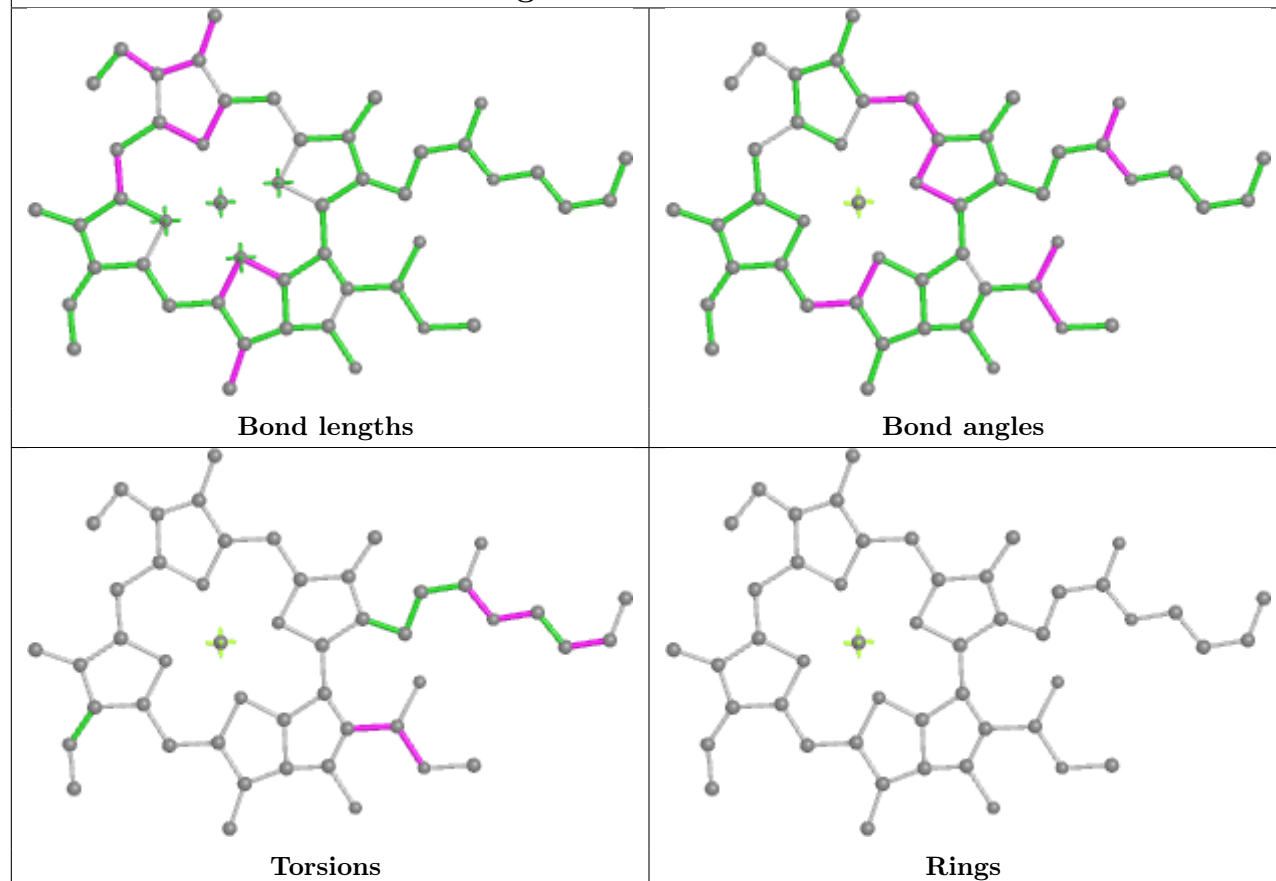
Ligand CLA Gg 314



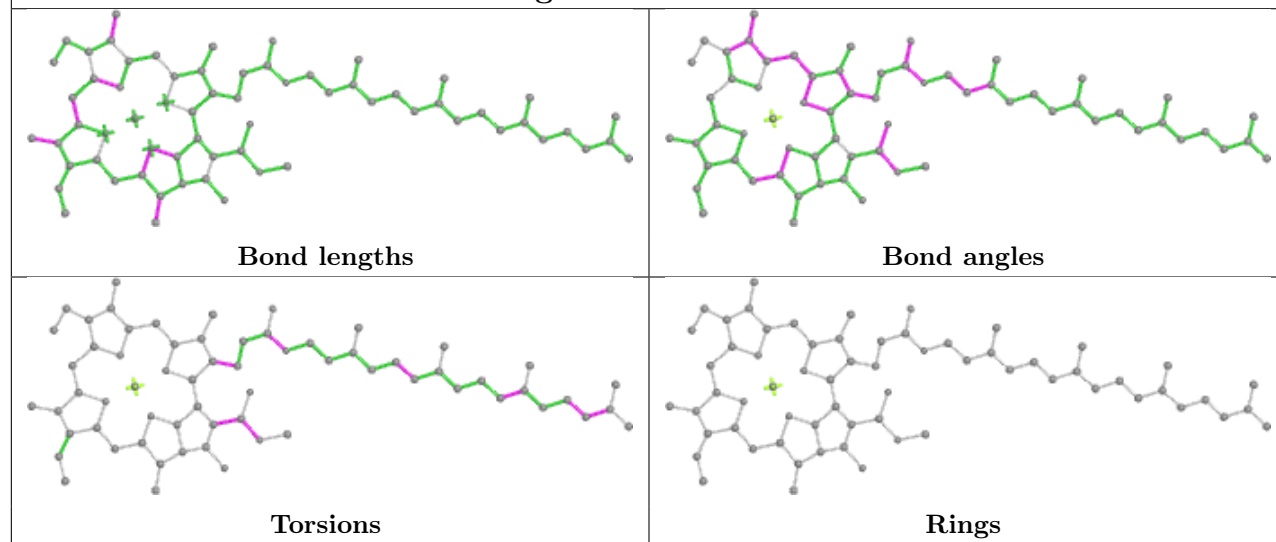


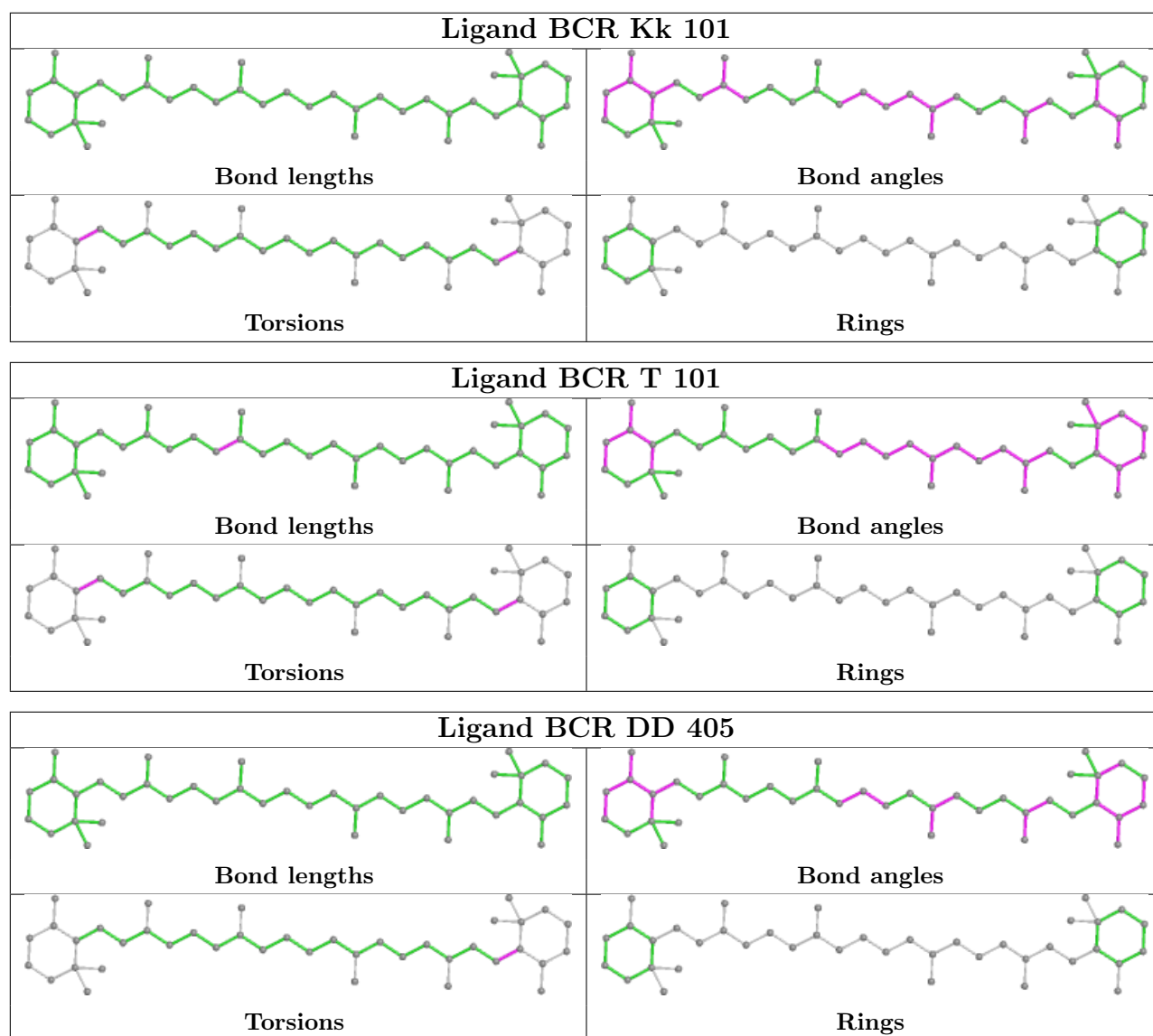


Ligand CLA GG 610

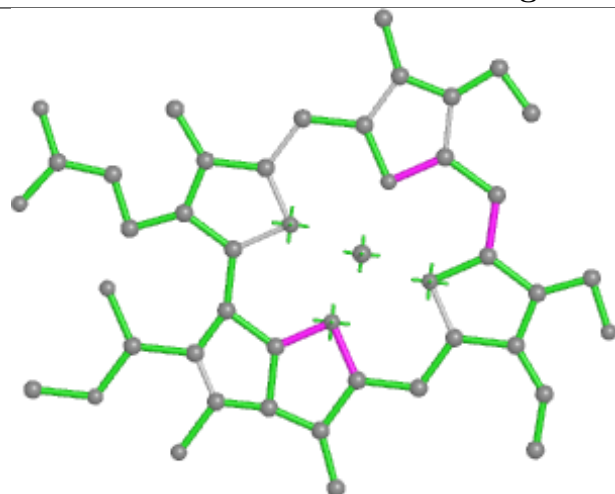


Ligand CLA b 601

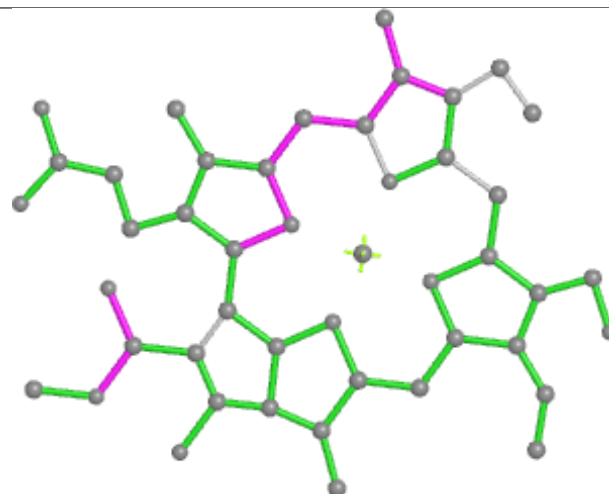




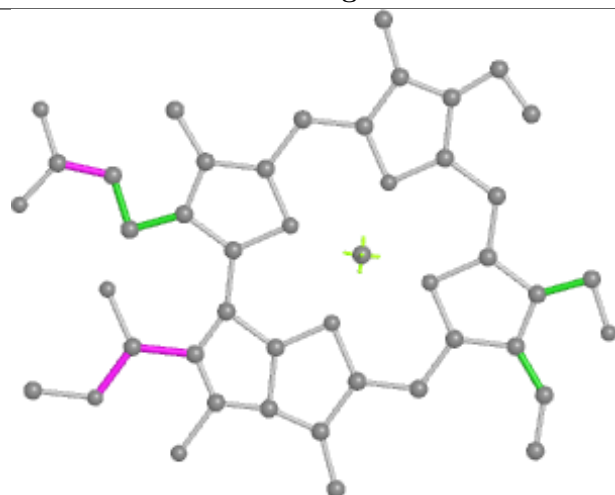
Ligand CHL 4 306



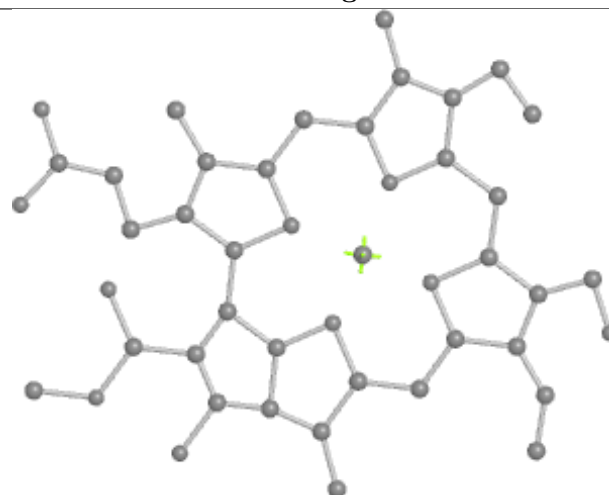
Bond lengths



Bond angles

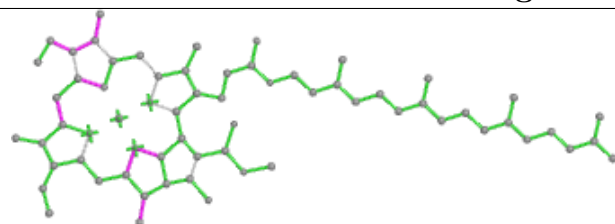


Torsions

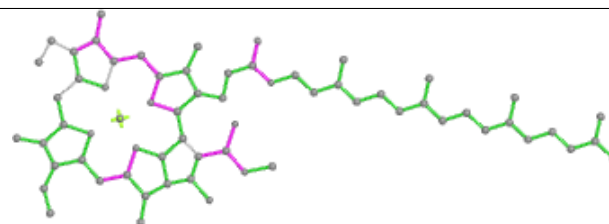


Rings

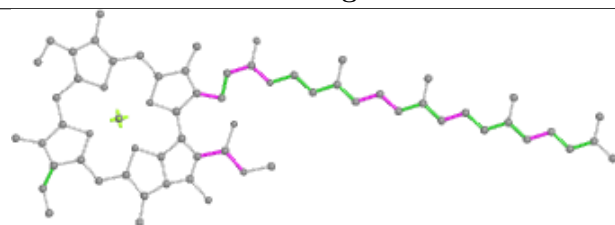
Ligand CLA N 602



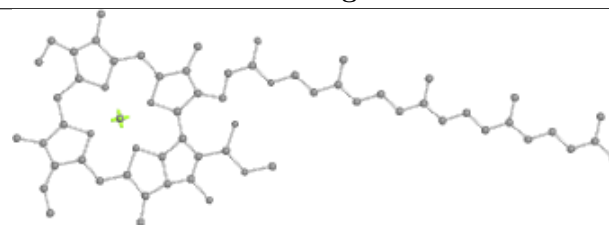
Bond lengths



Bond angles

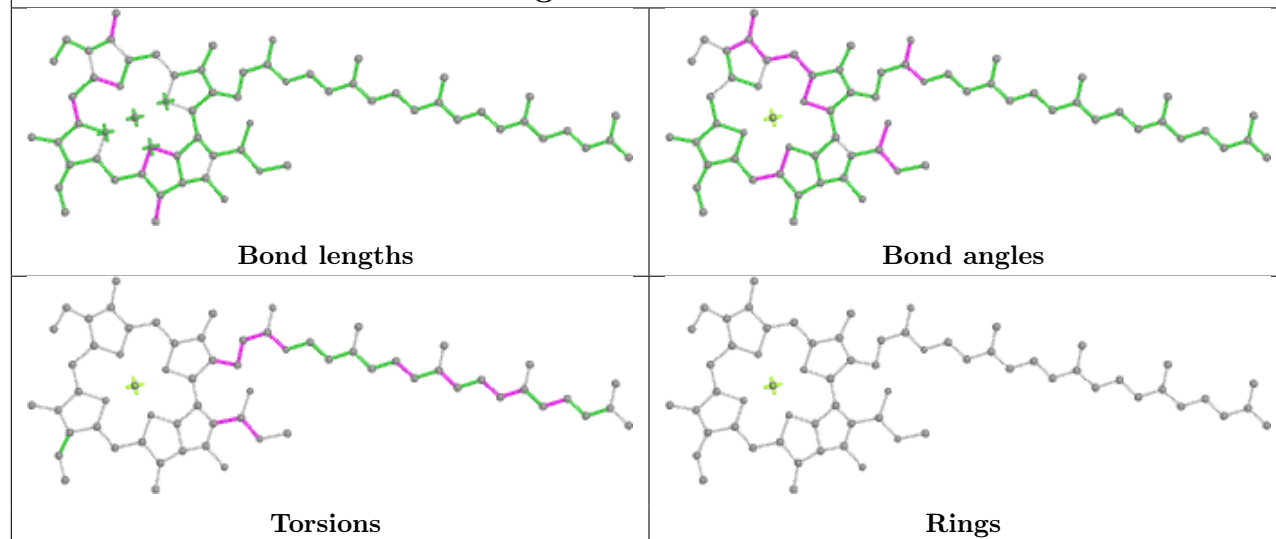


Torsions

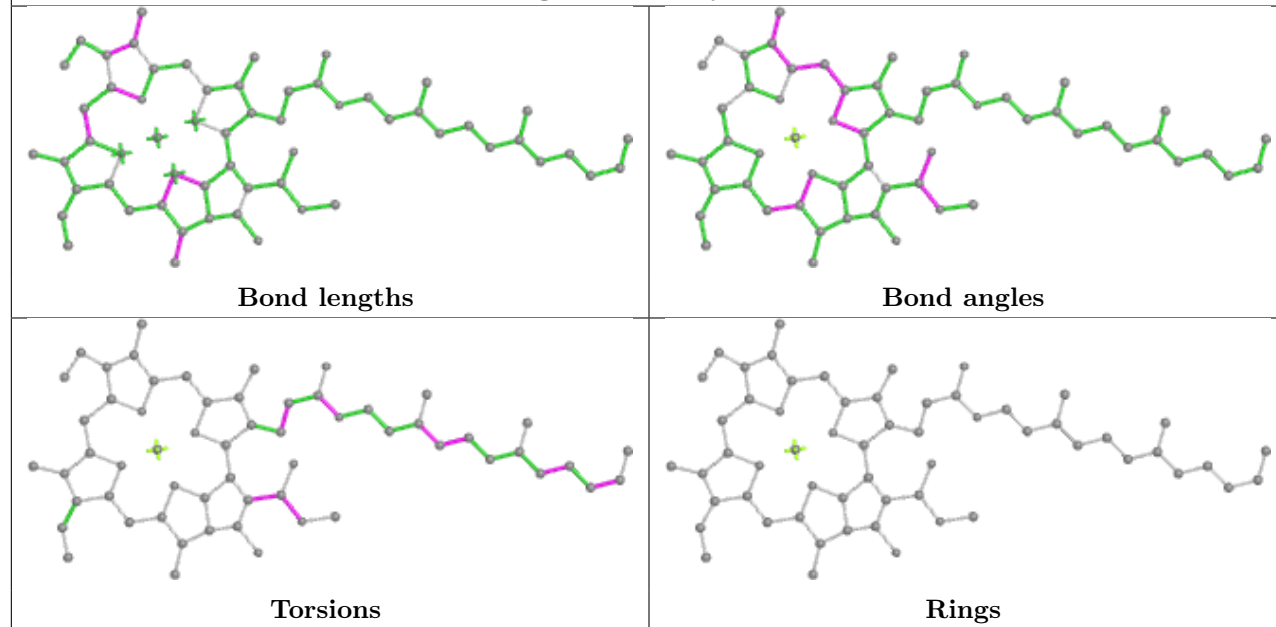


Rings

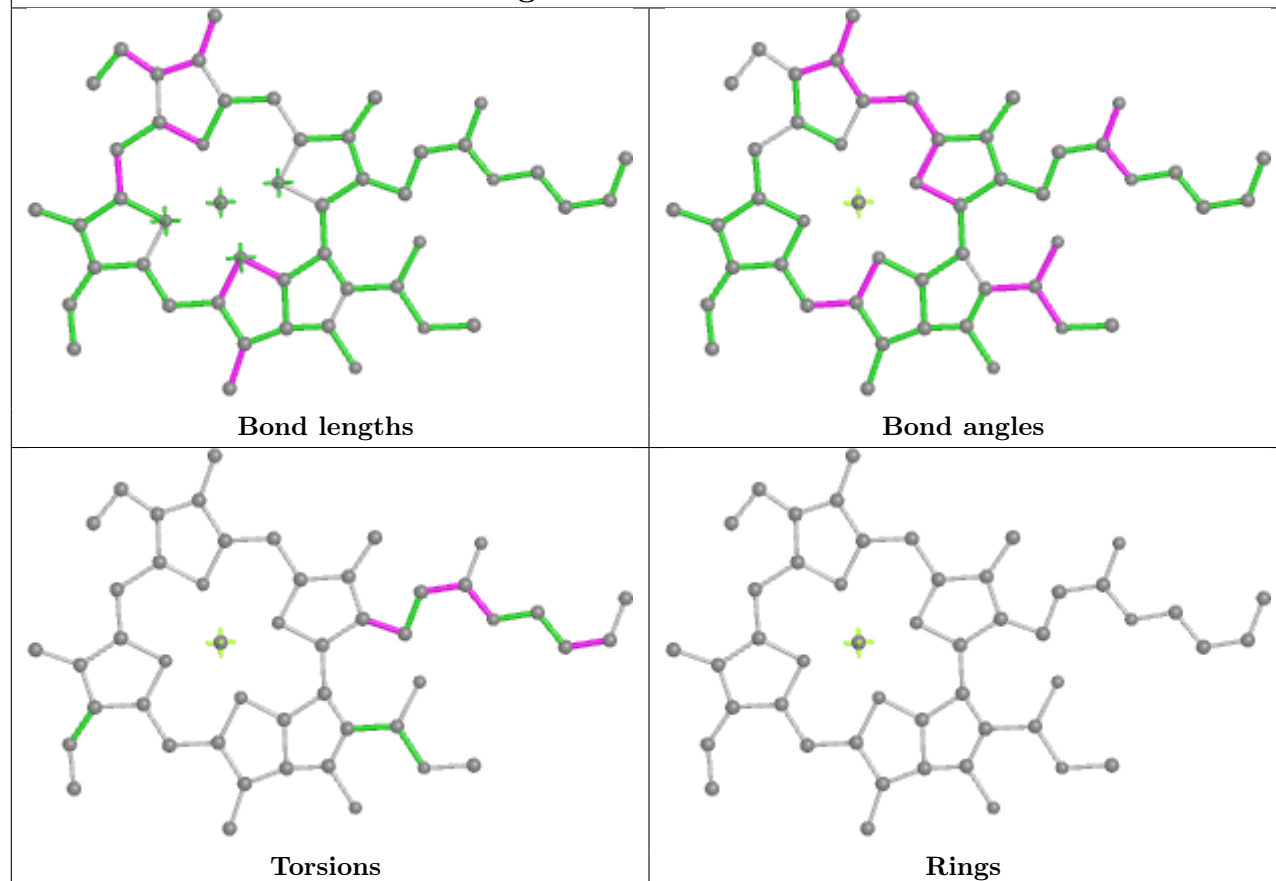
Ligand CLA b 609



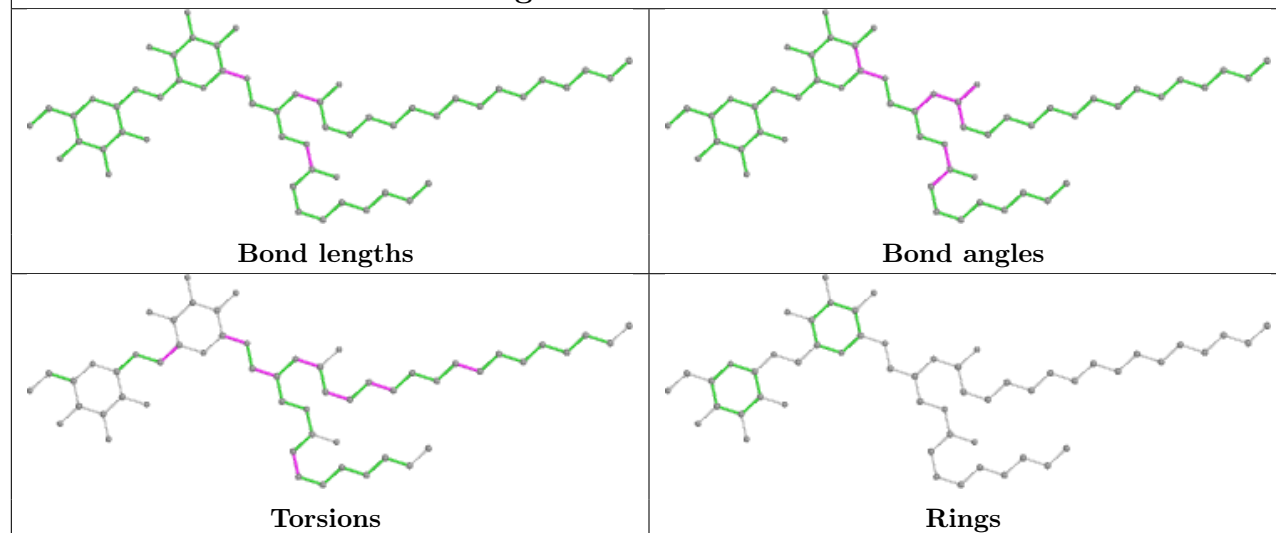
Ligand CLA y 315

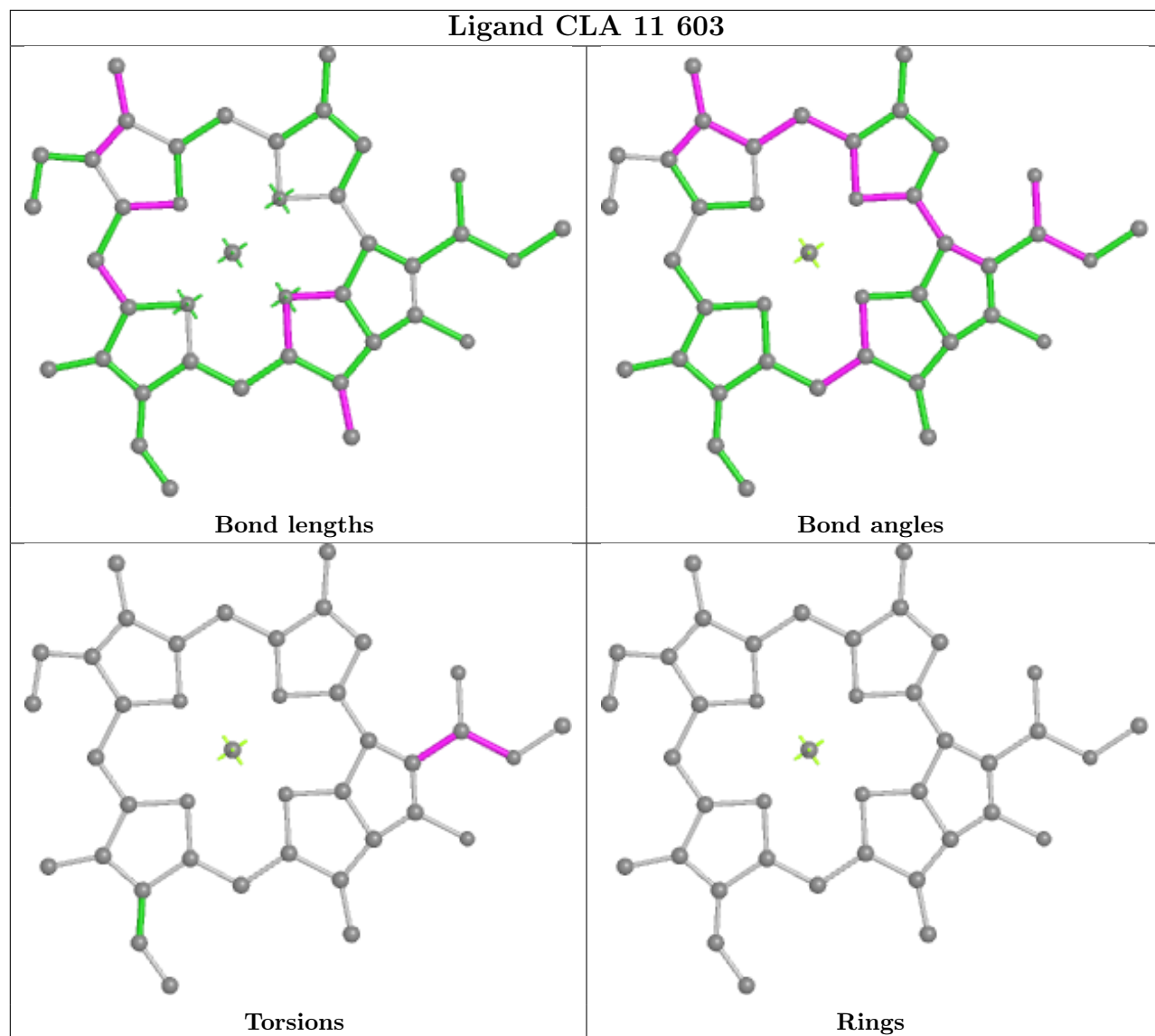


Ligand CLA AA 406

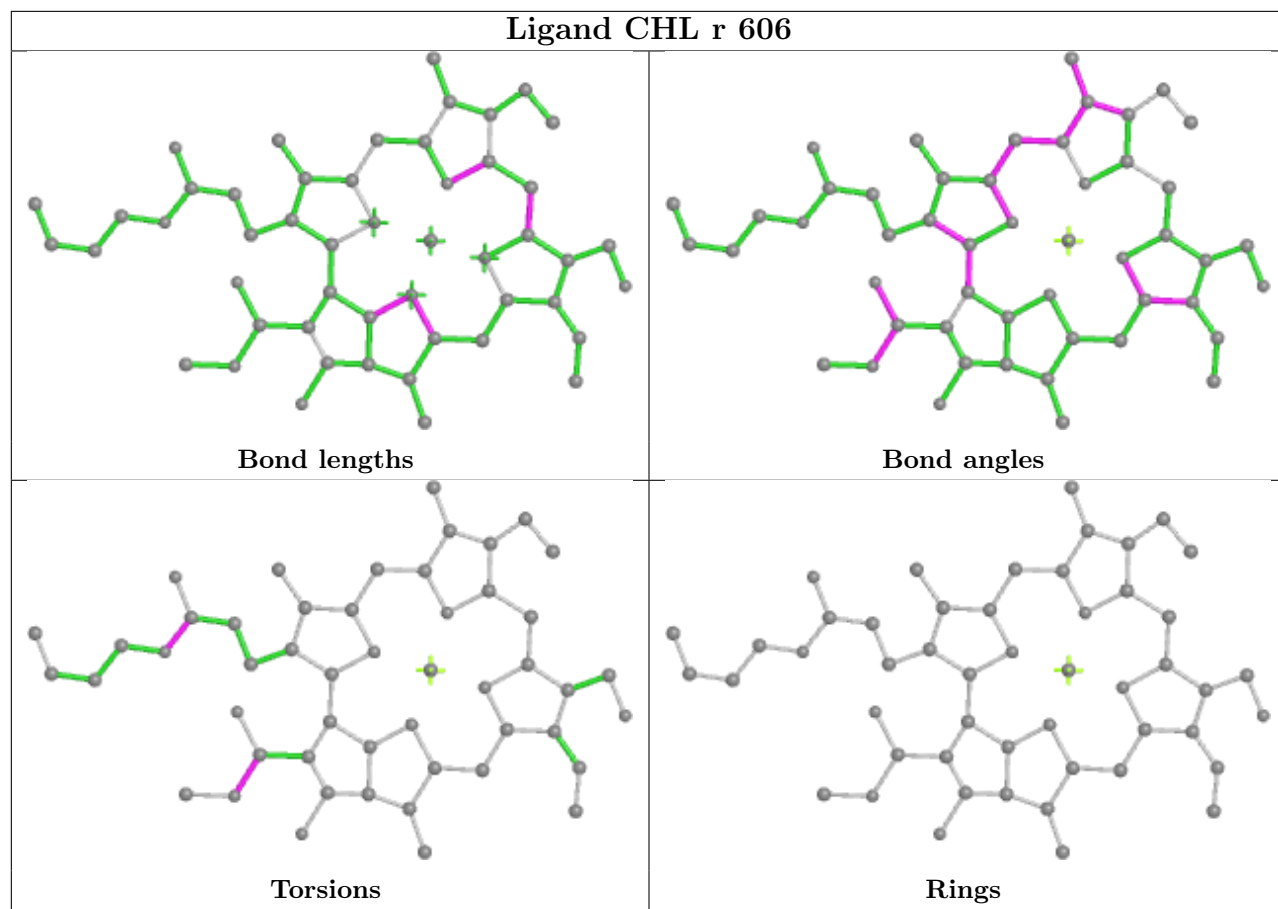


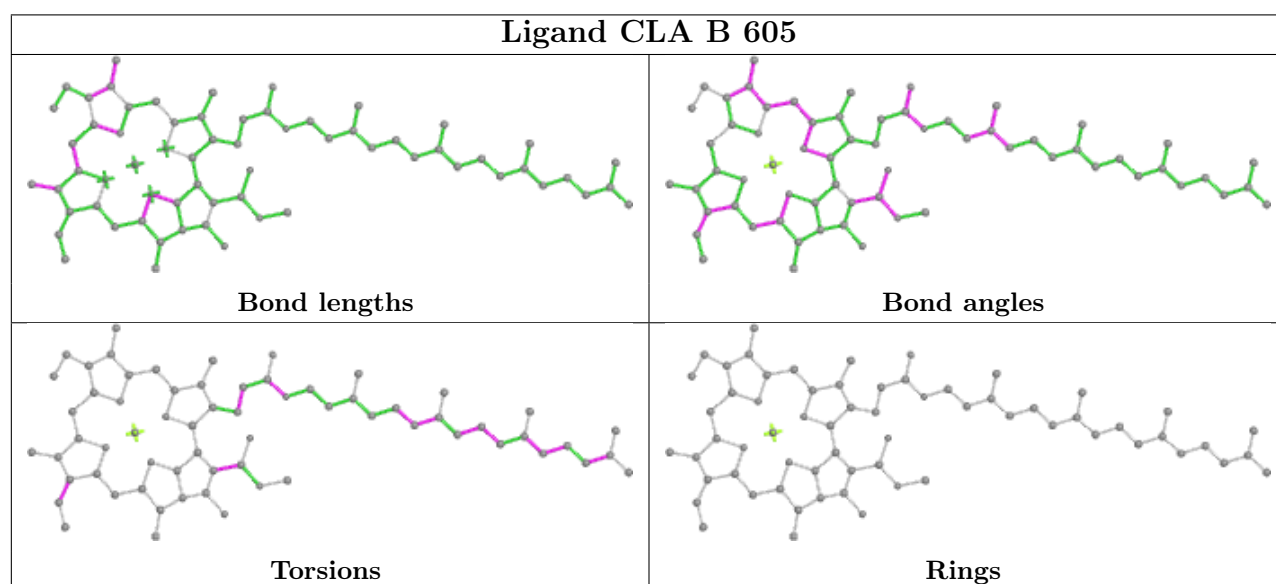
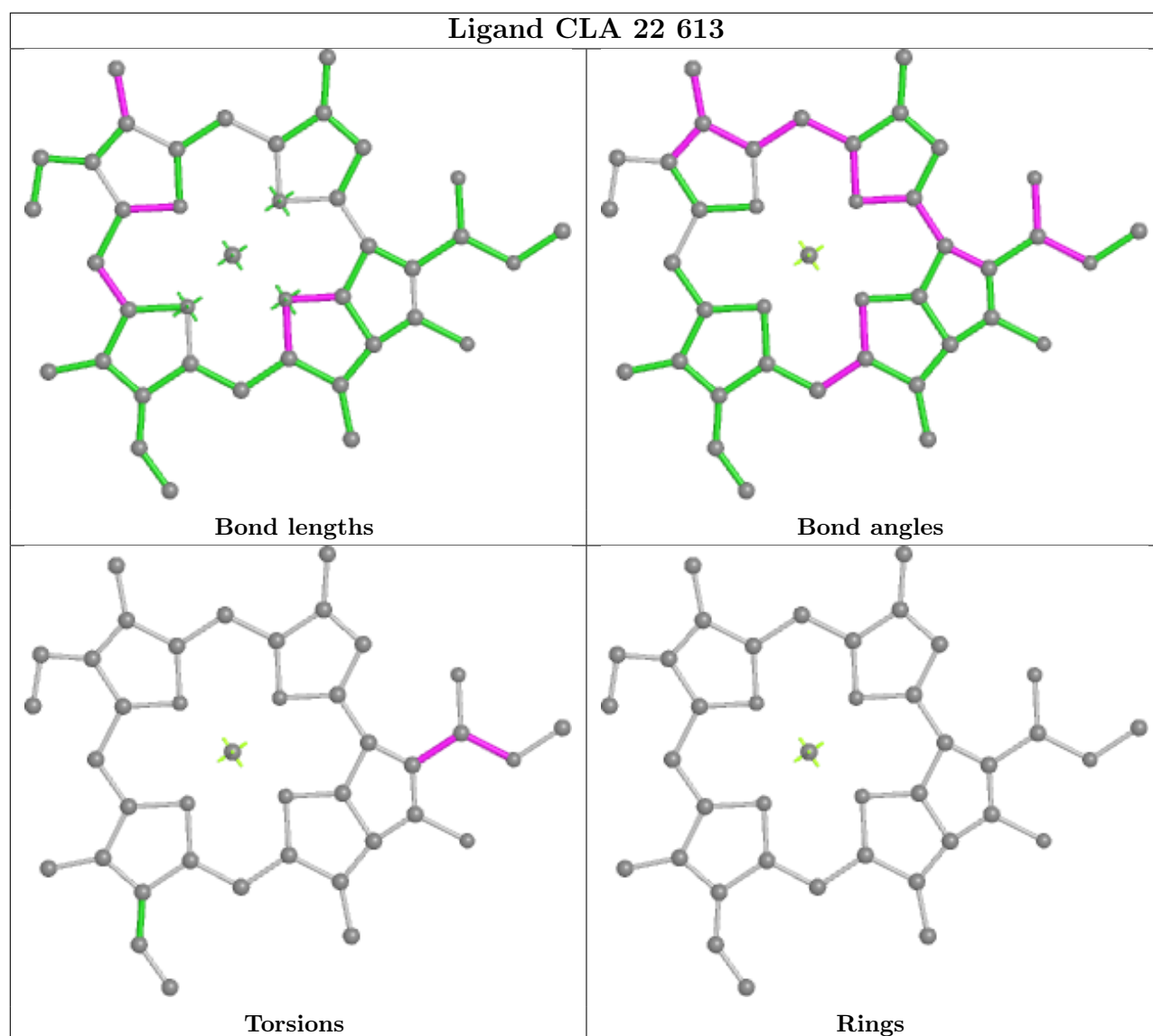
Ligand DGD CC 522

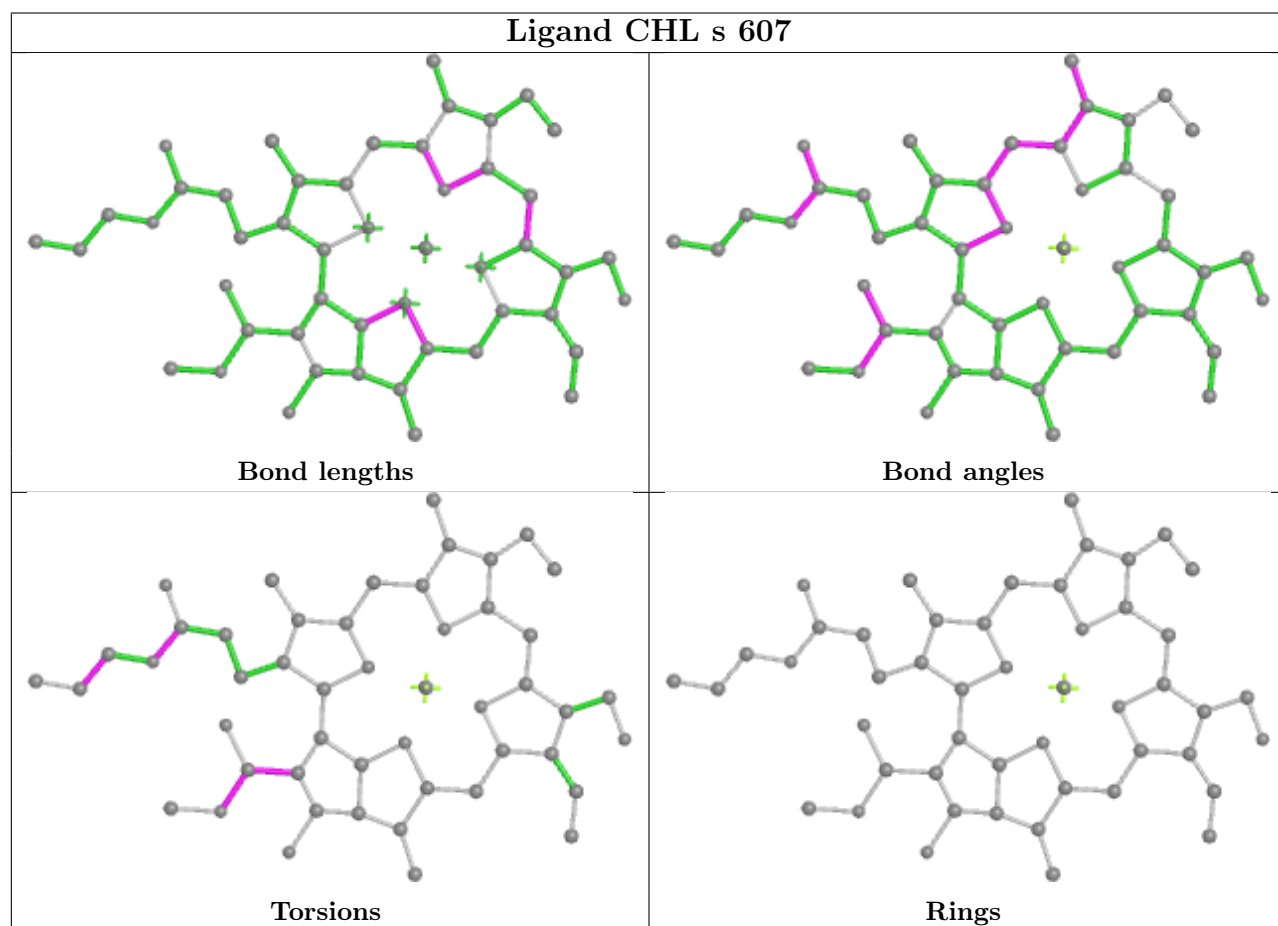
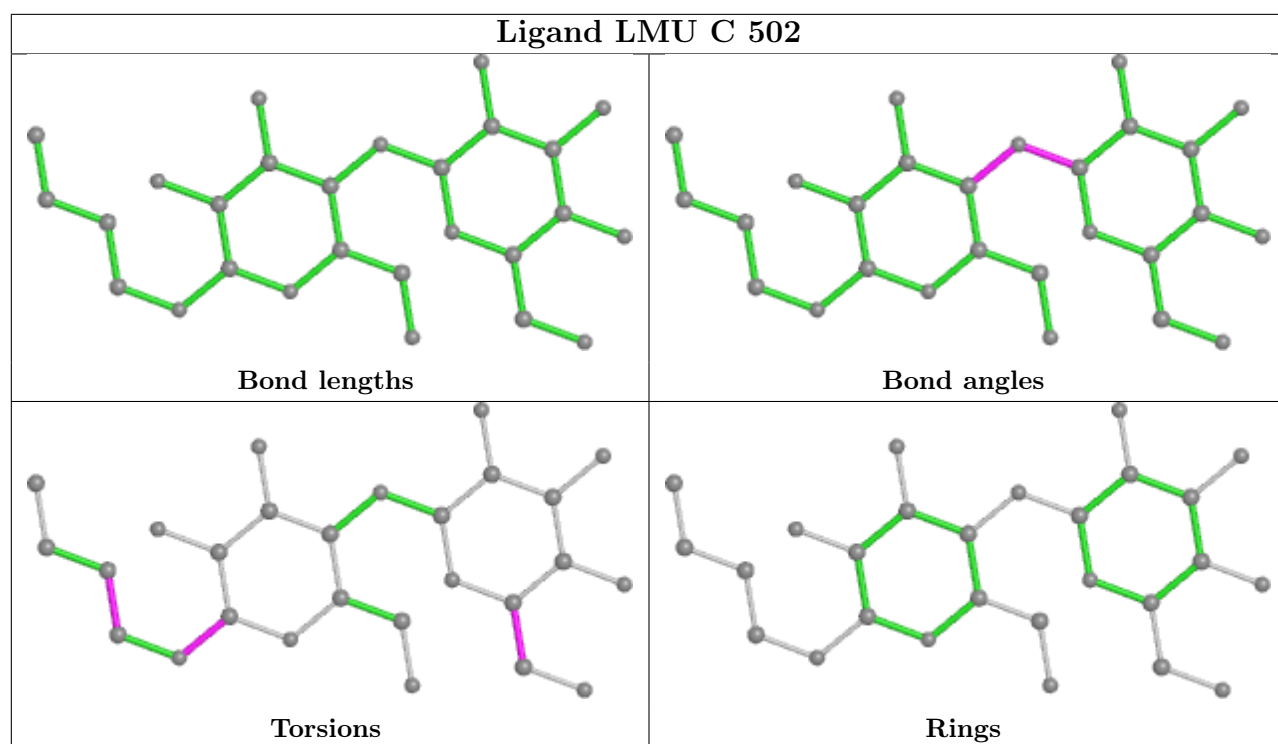


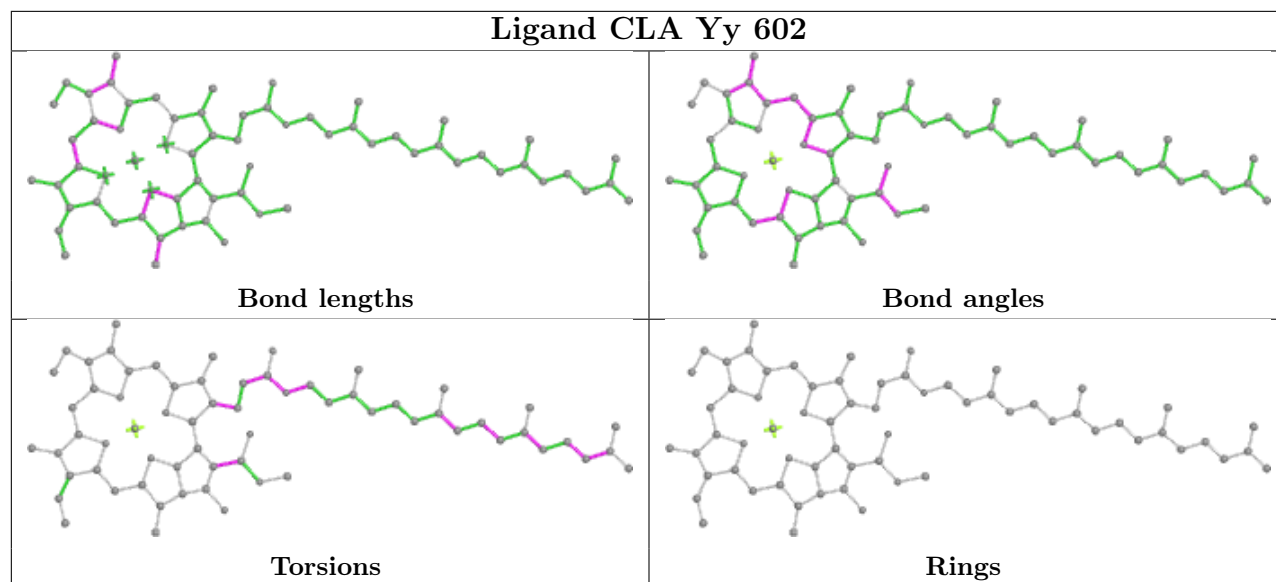
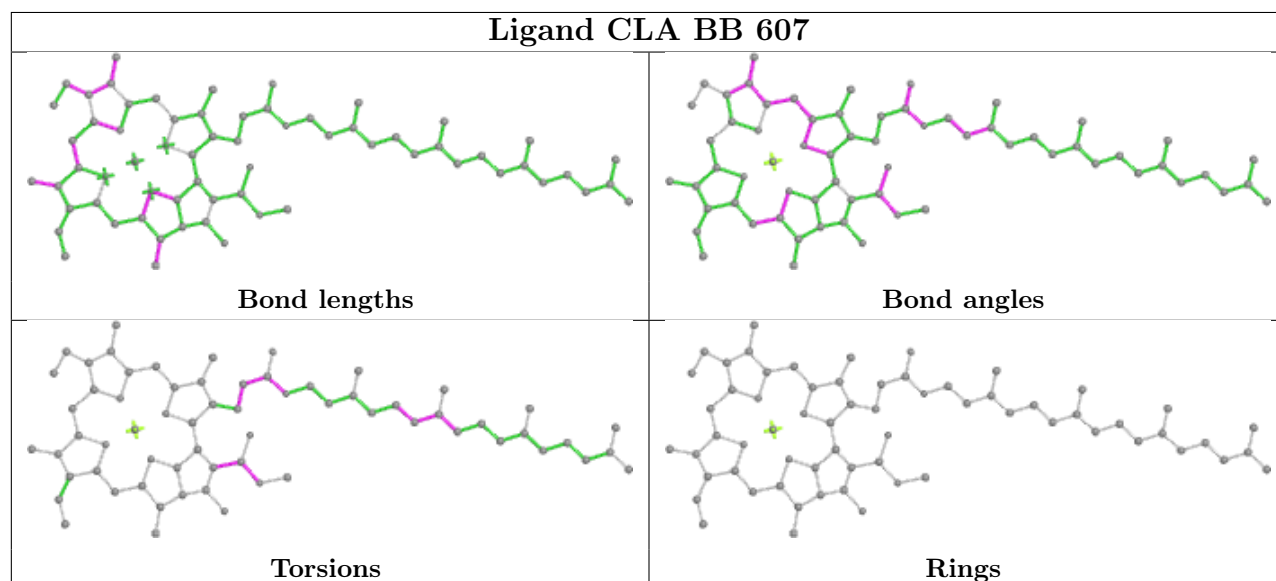
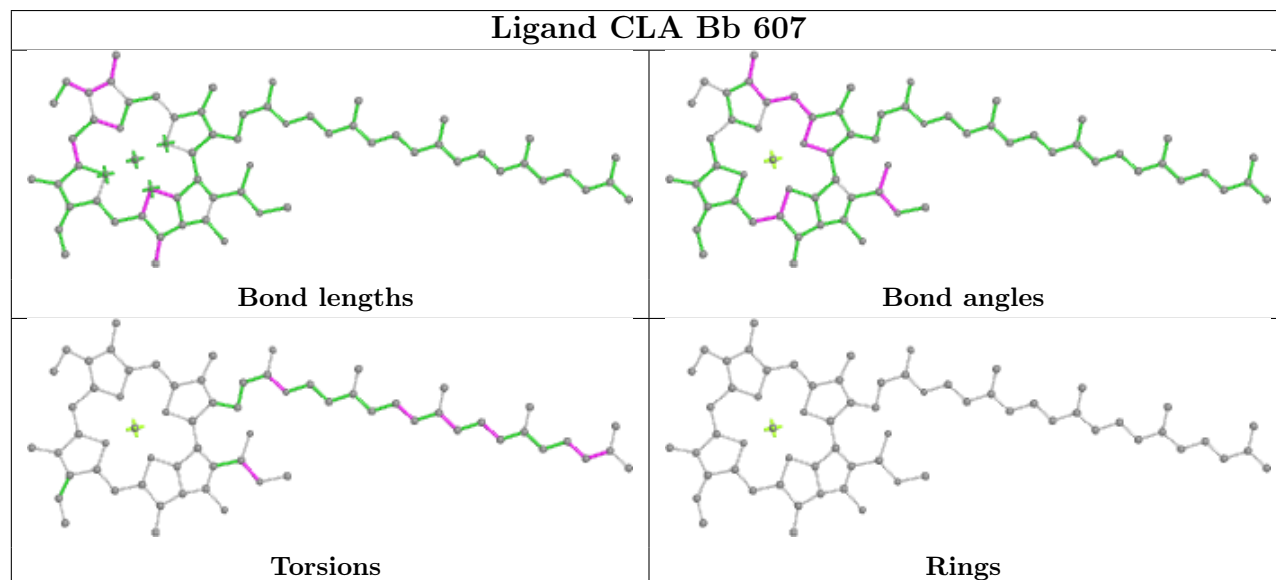


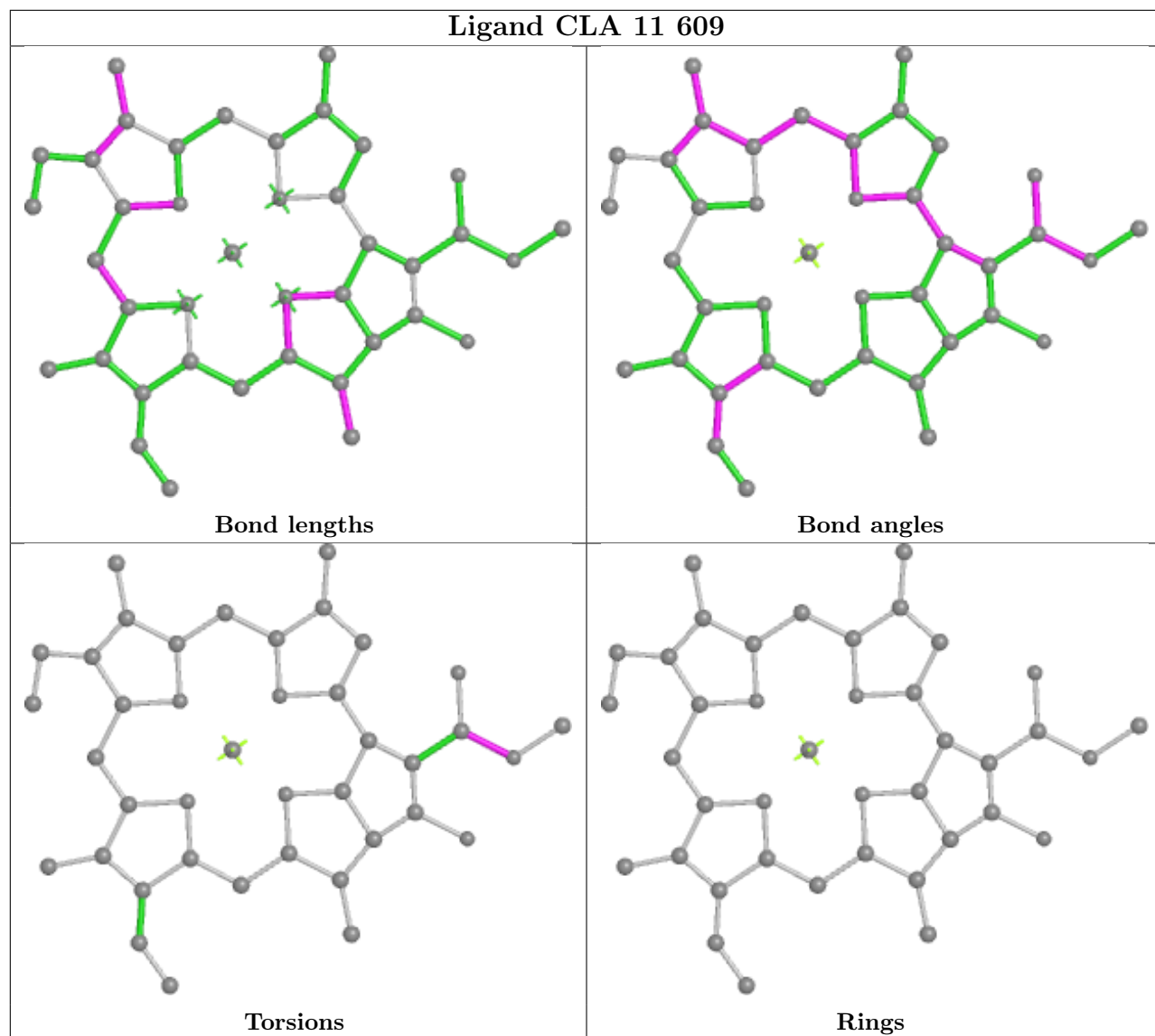
Ligand CHL r 606

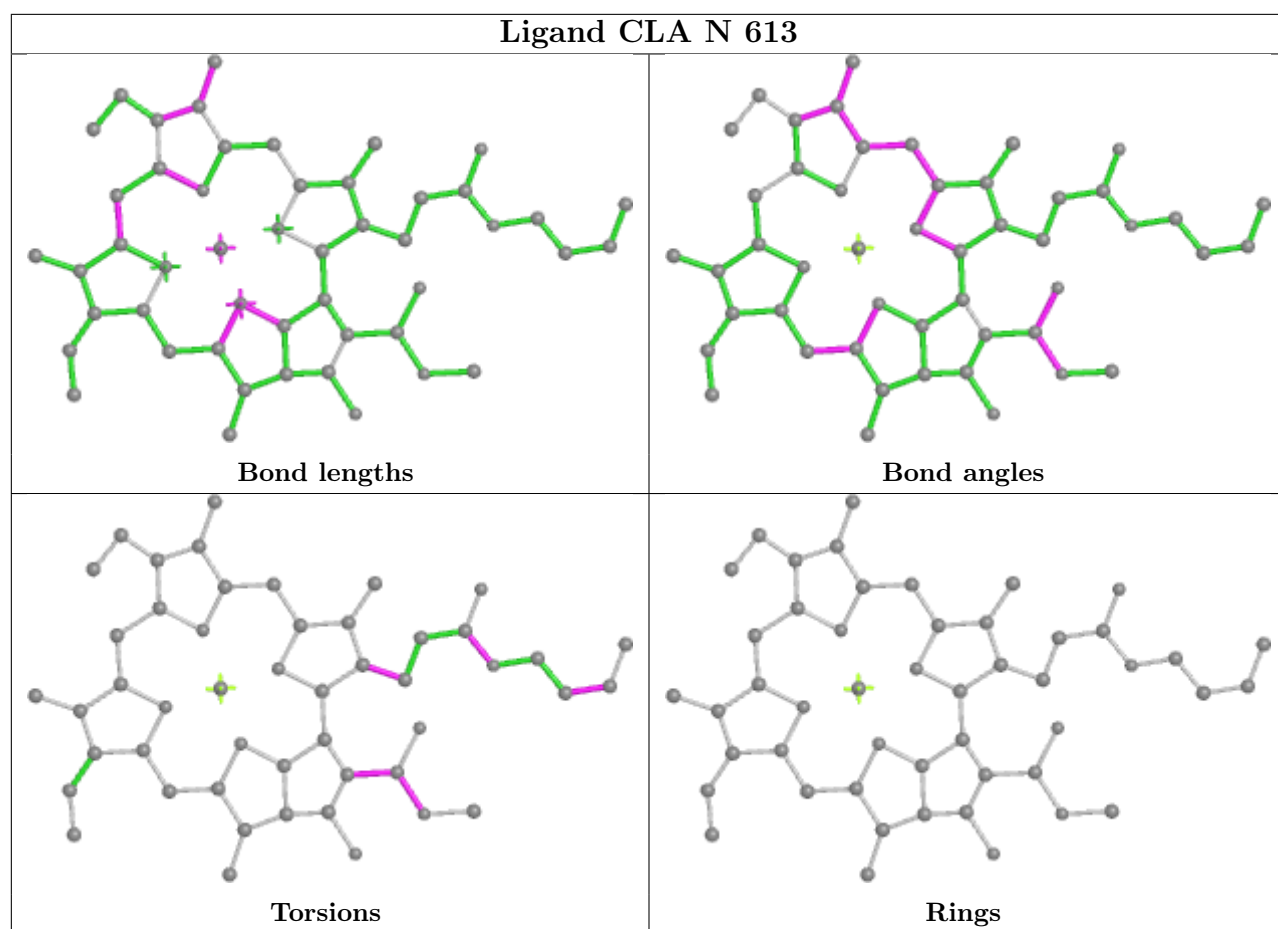


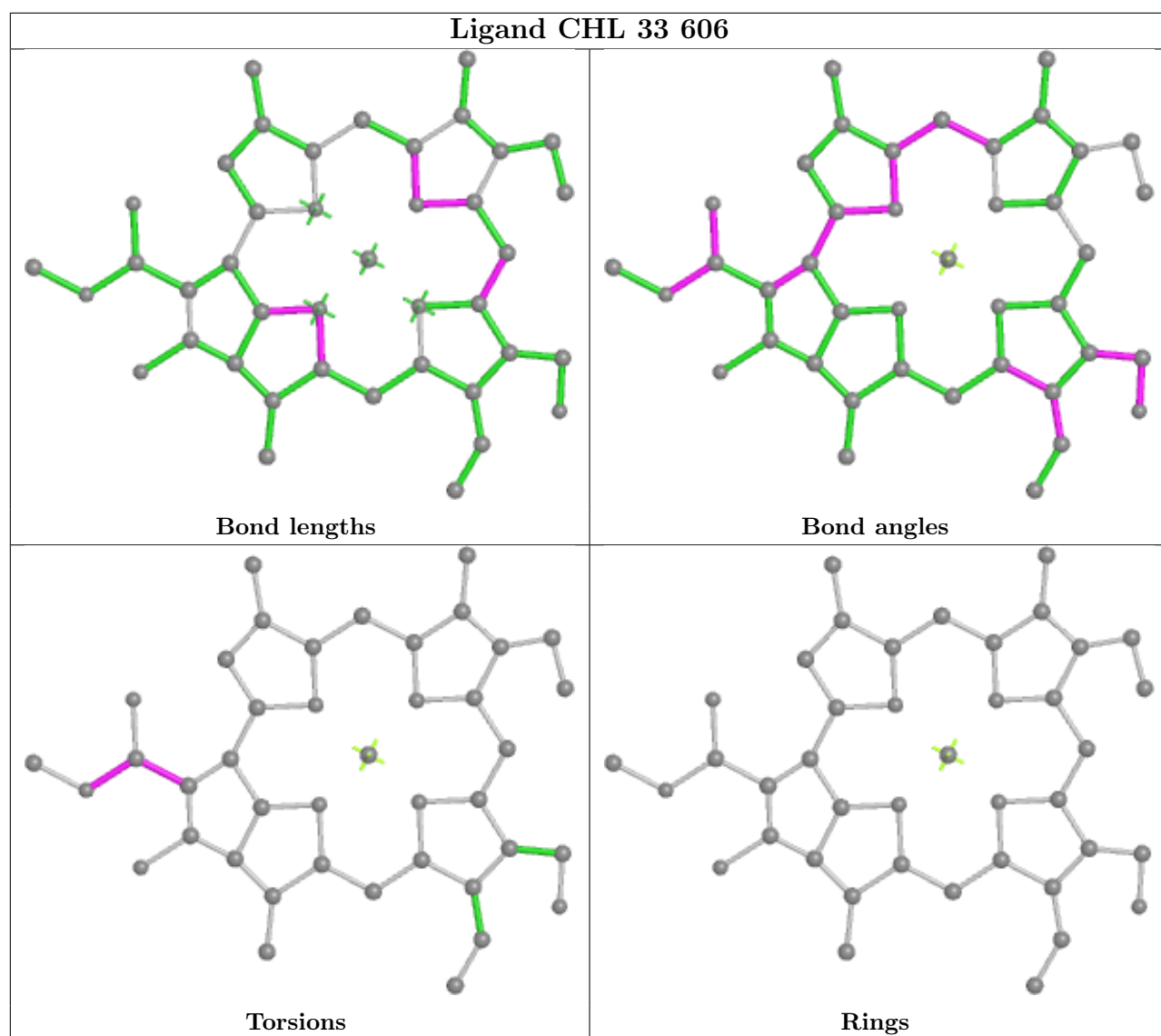


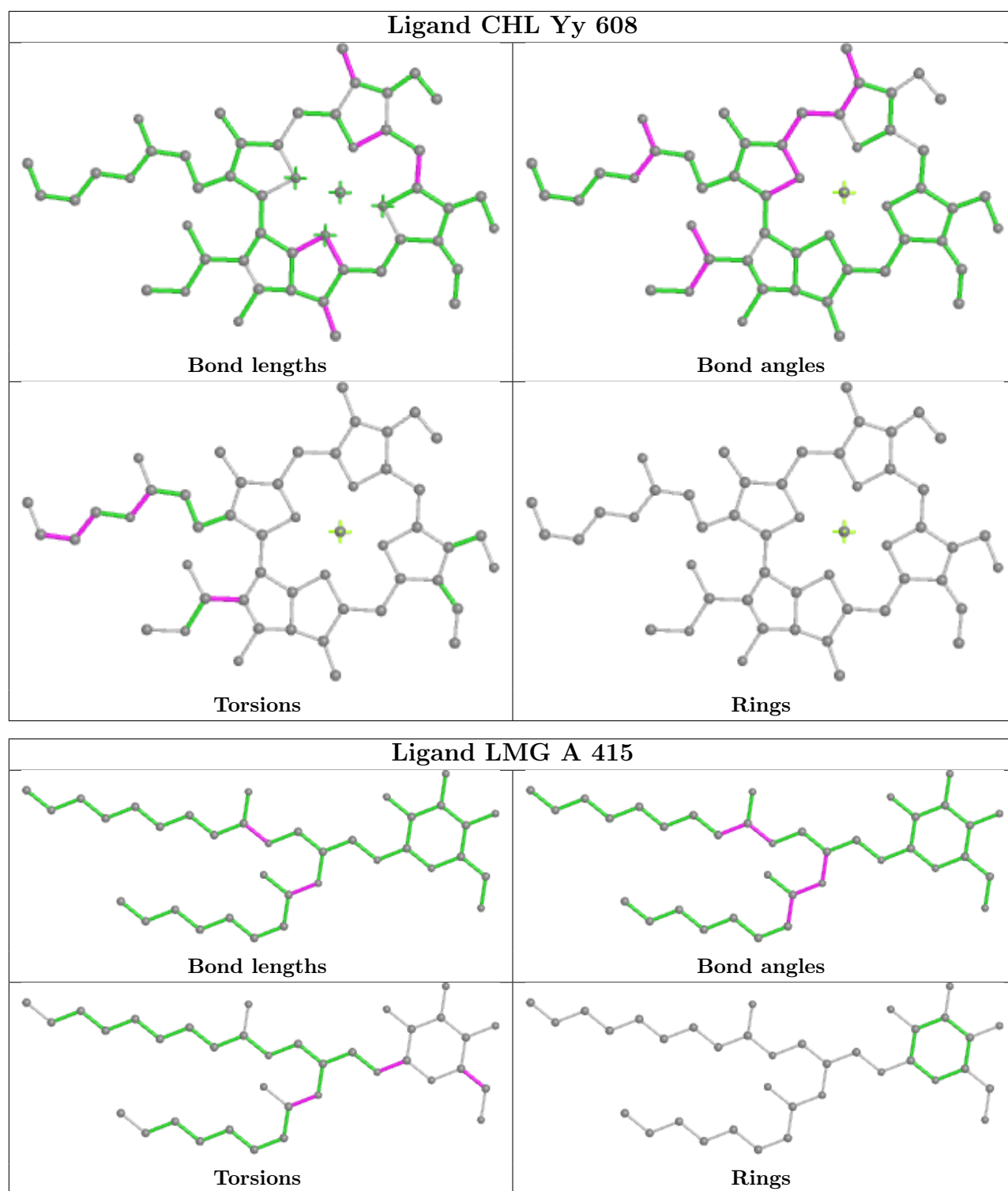


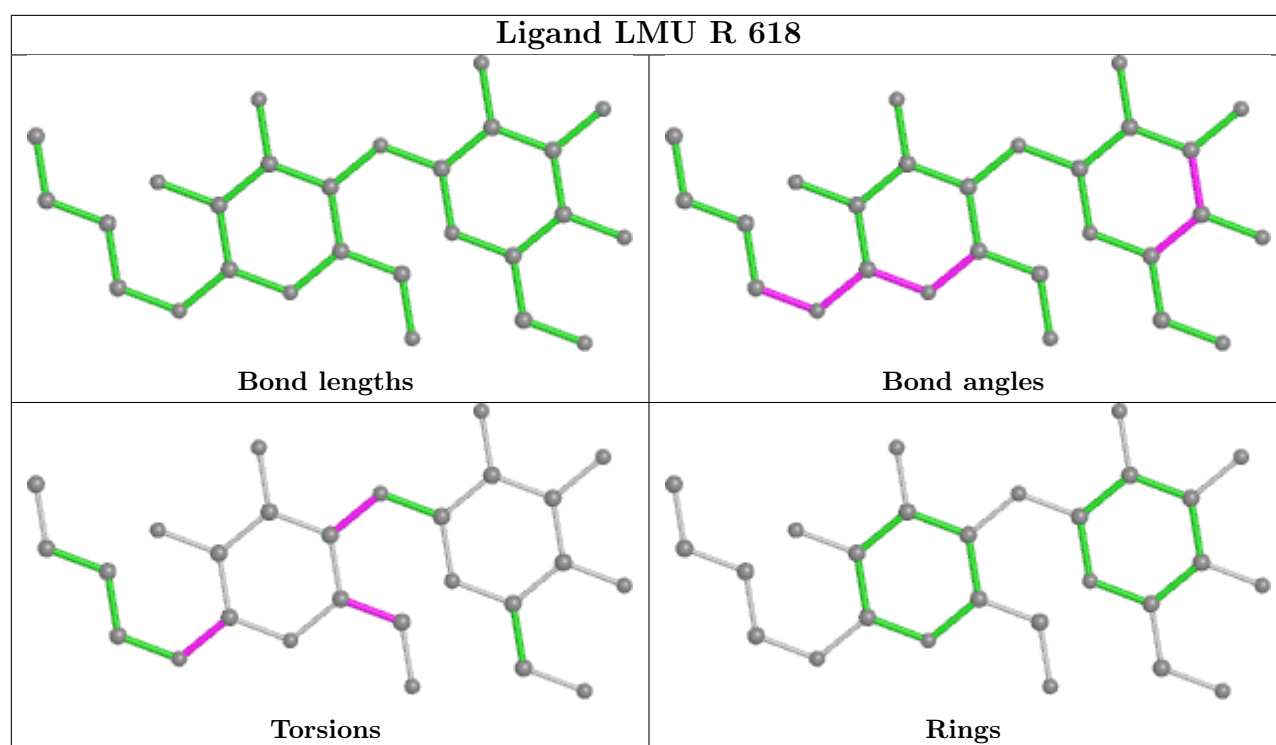
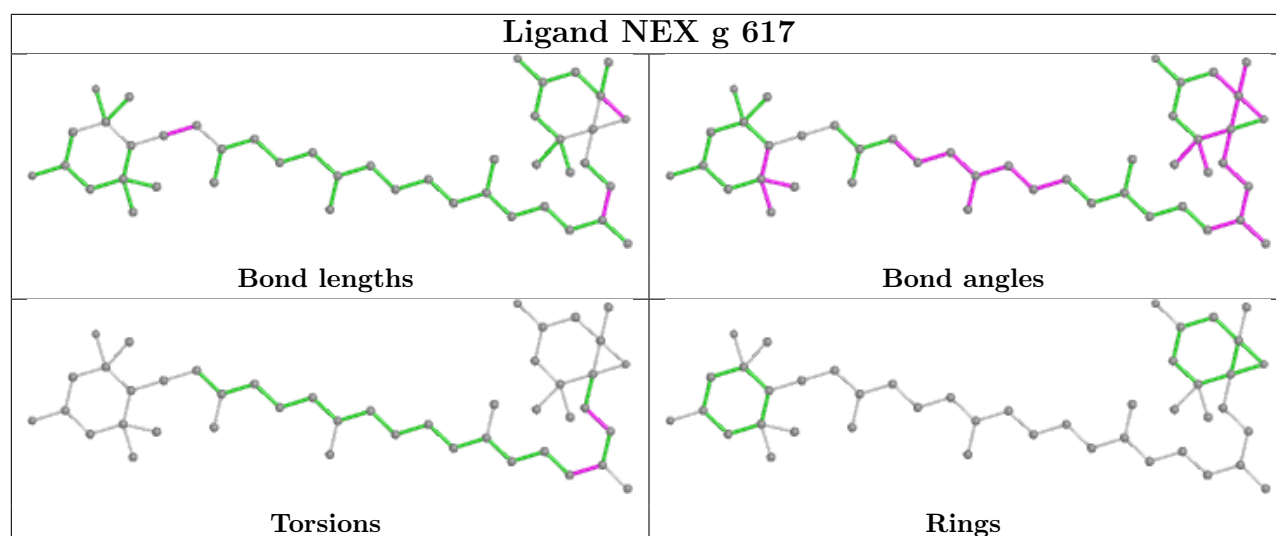
Ligand CLA Yy 602**Ligand CLA BB 607****Ligand CLA Bb 607**



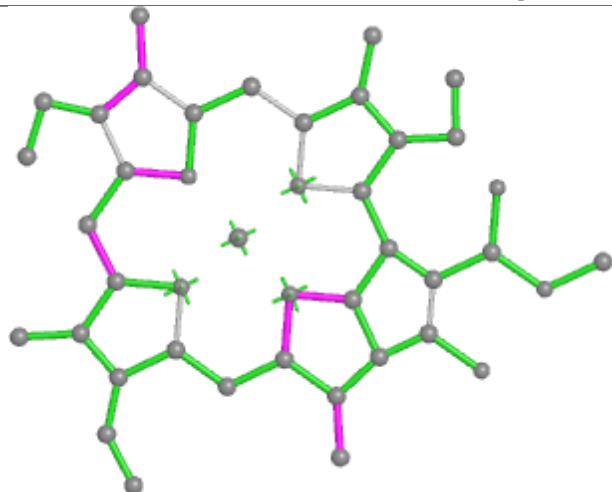




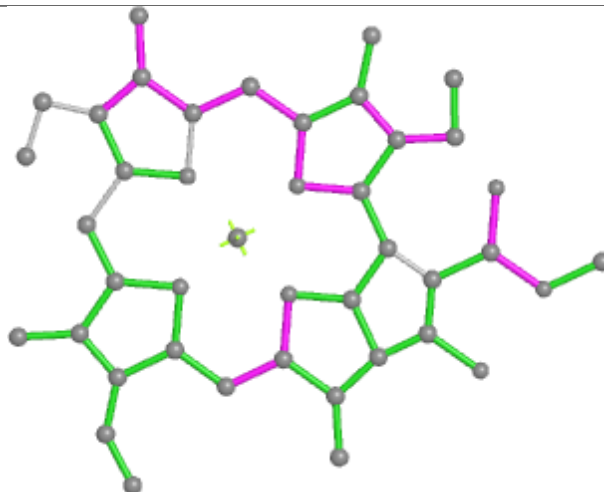




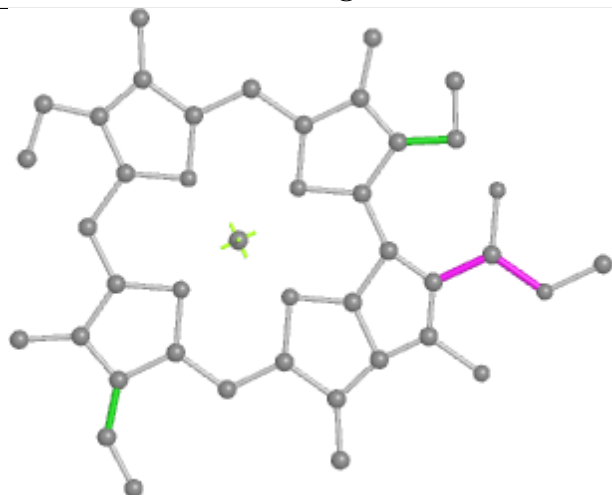
Ligand CLA N 603



Bond lengths



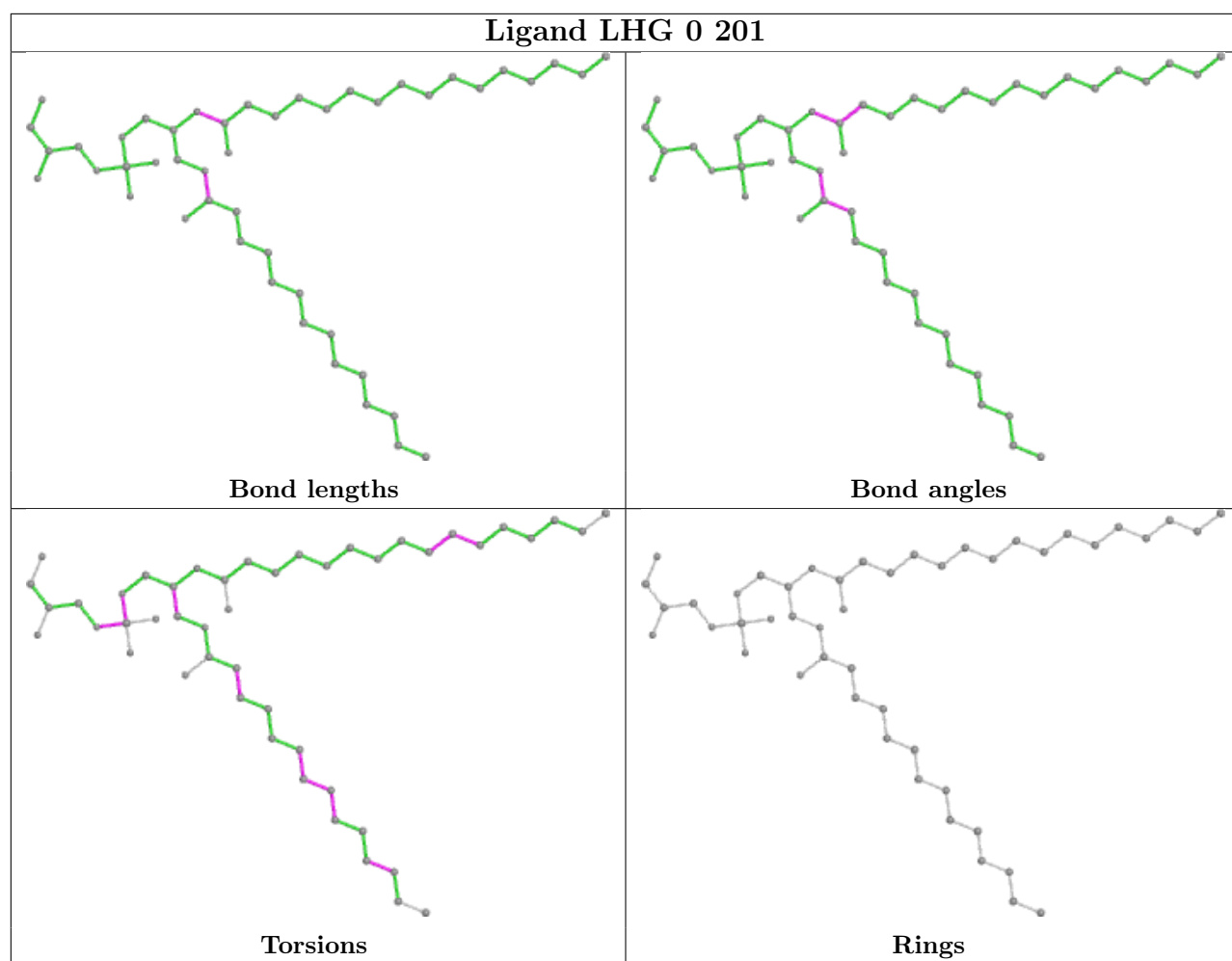
Bond angles

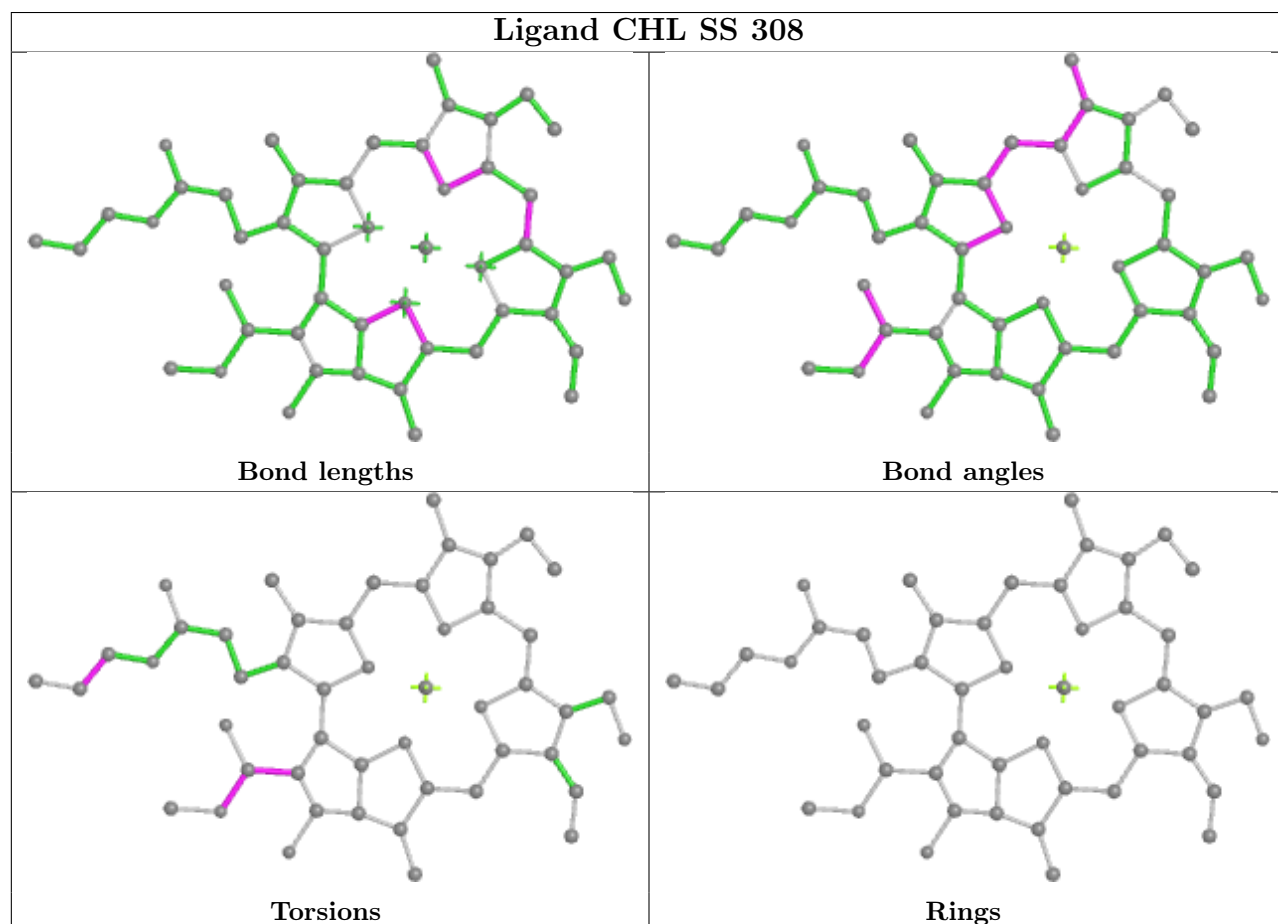
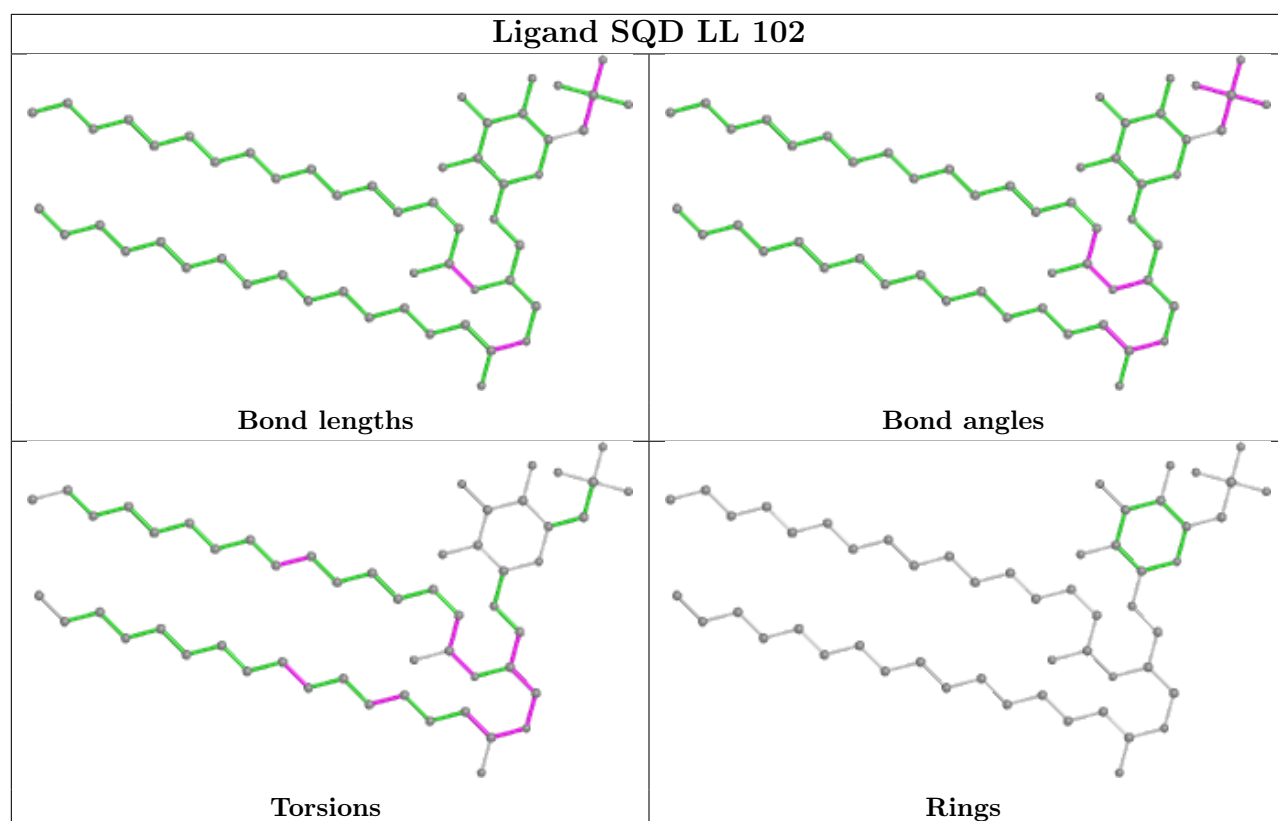


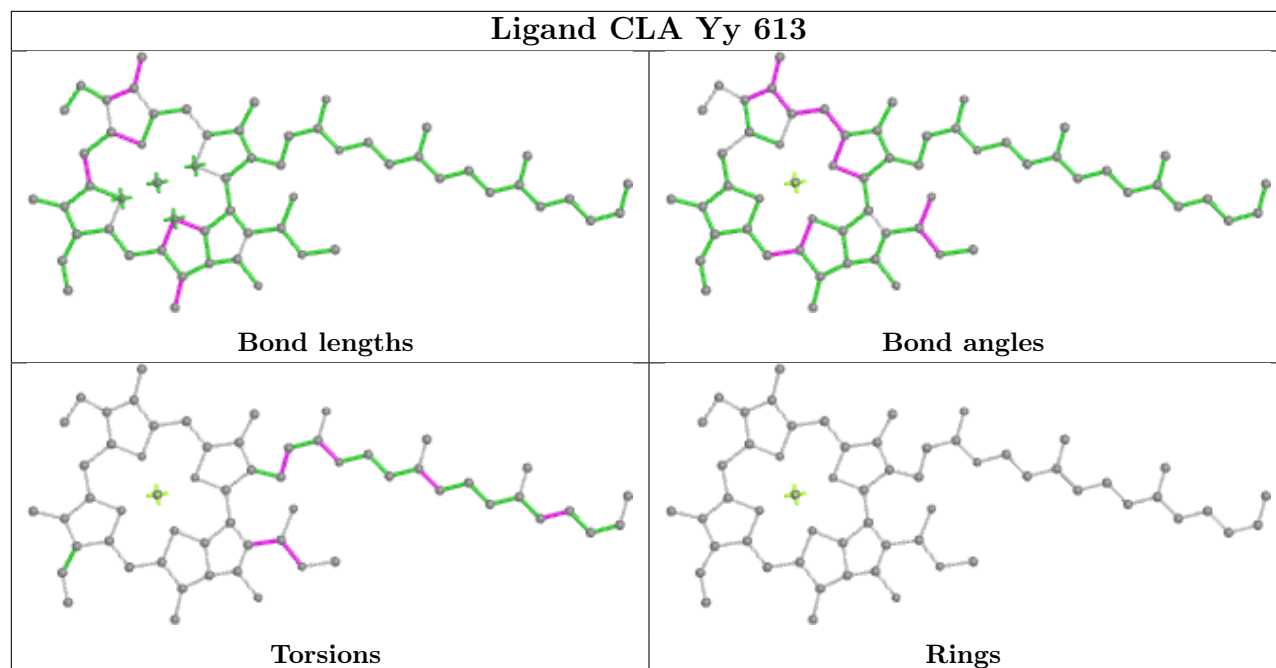
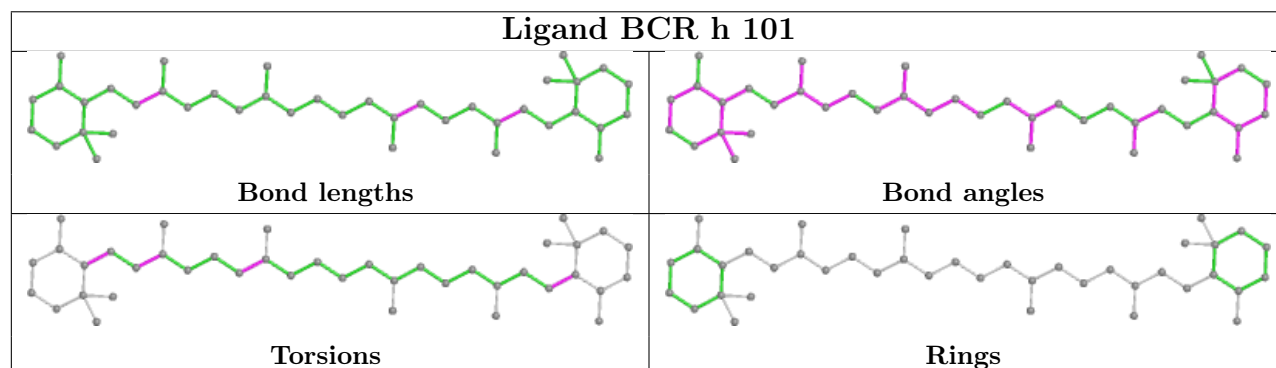
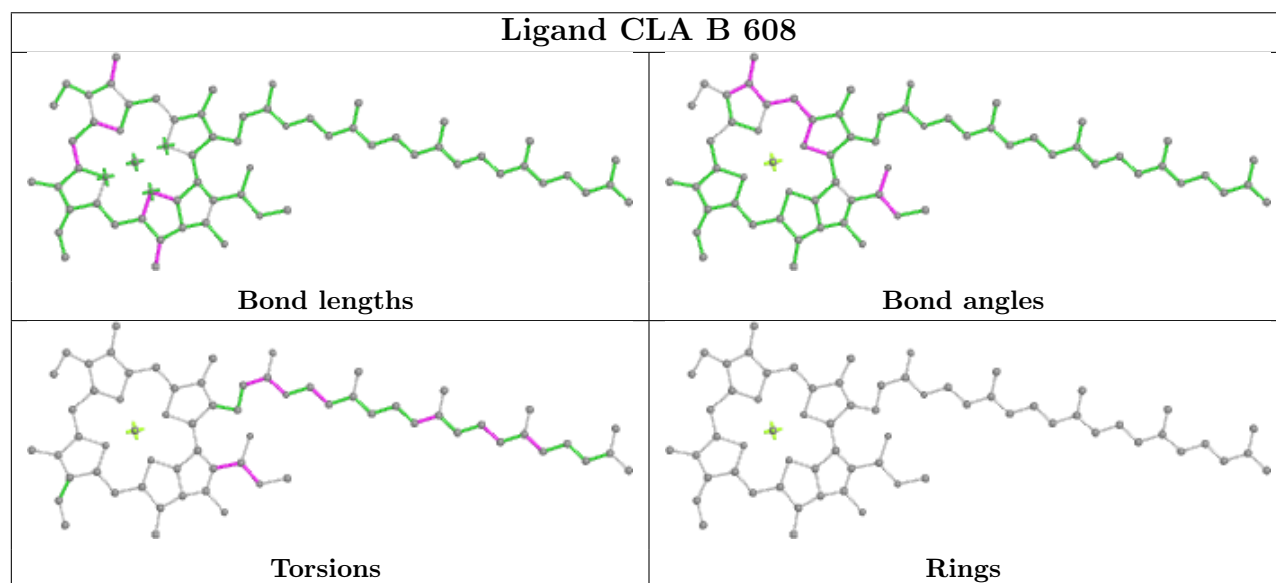
Torsions

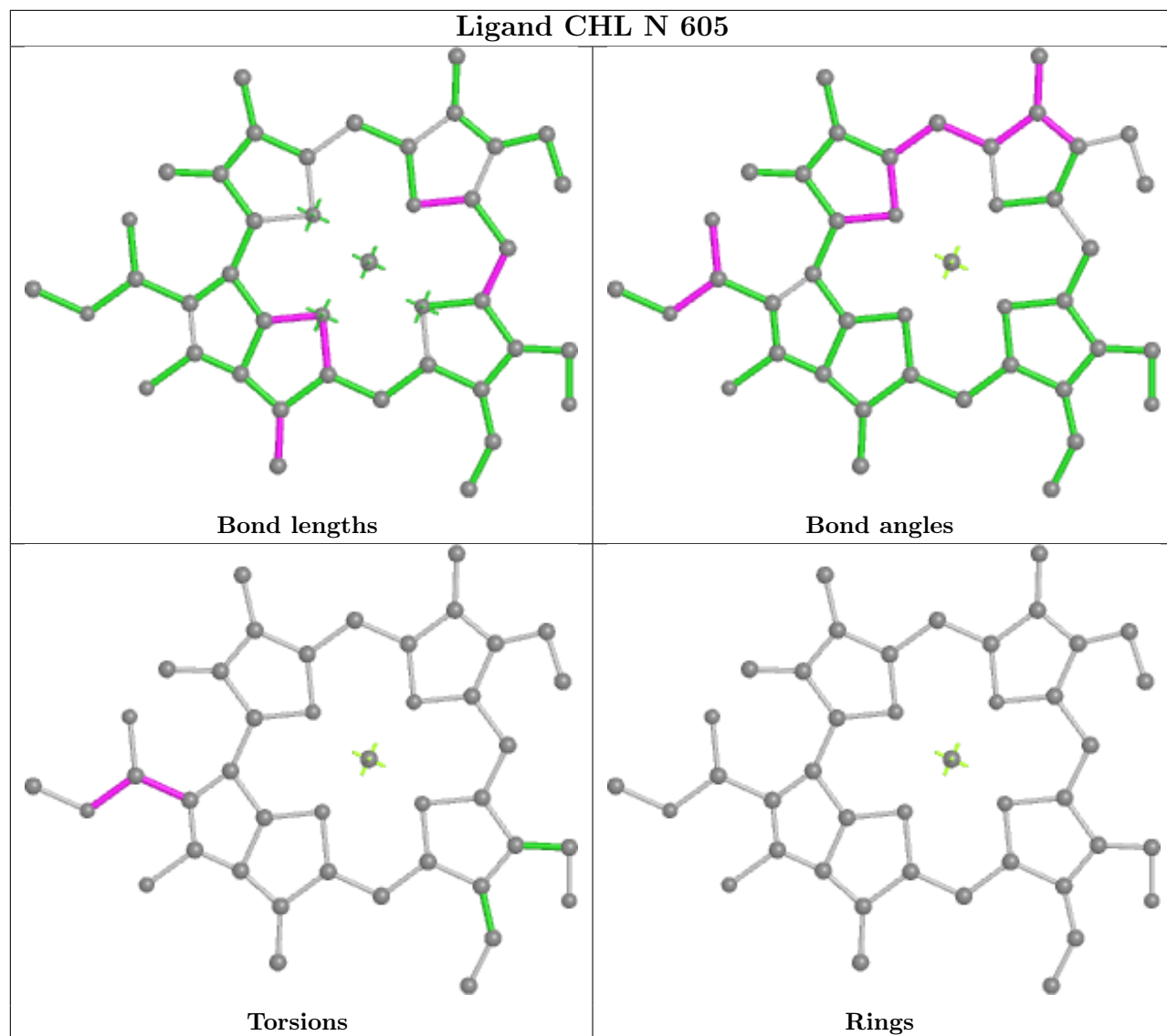


Rings

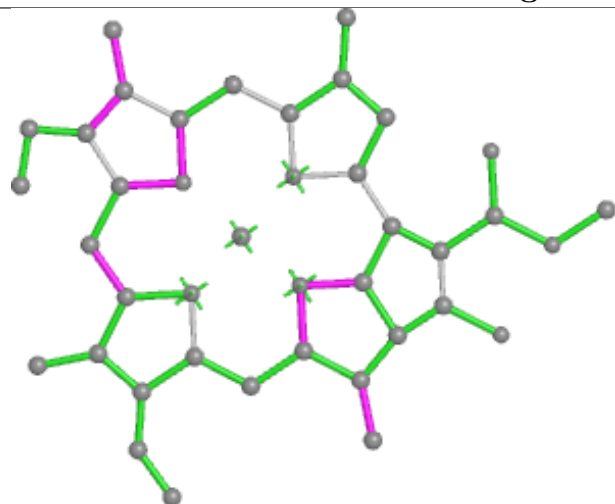




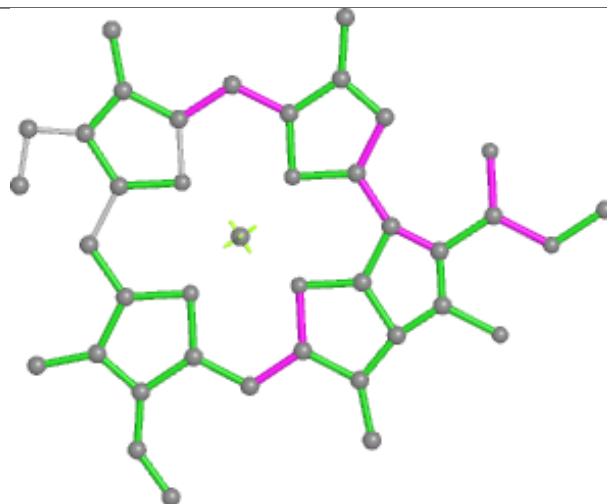
Ligand CLA Yy 613**Ligand BCR h 101****Ligand CLA B 608**



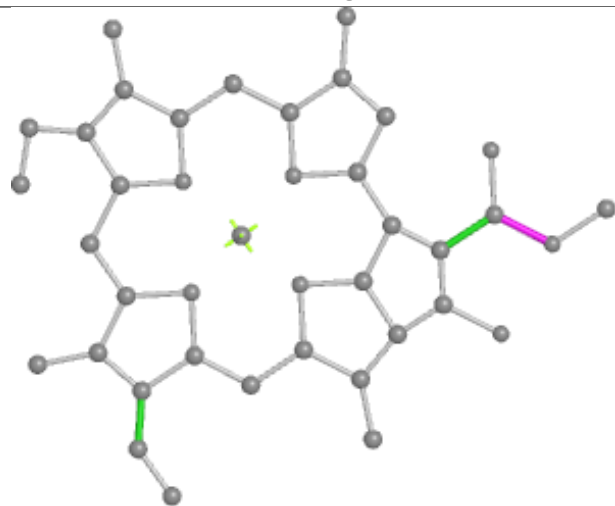
Ligand CLA 1 611



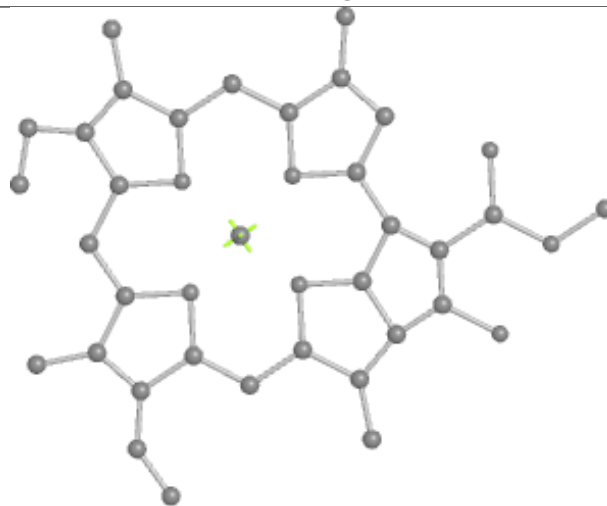
Bond lengths



Bond angles

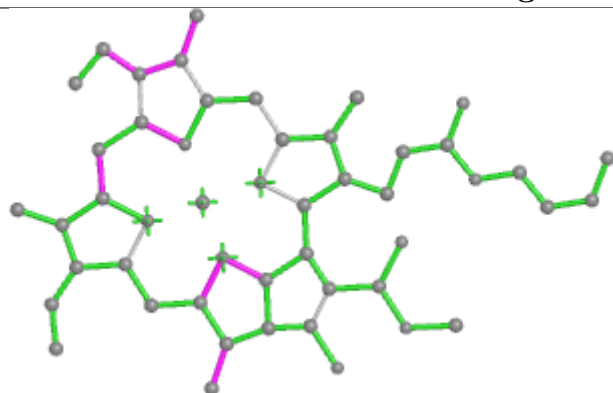


Torsions

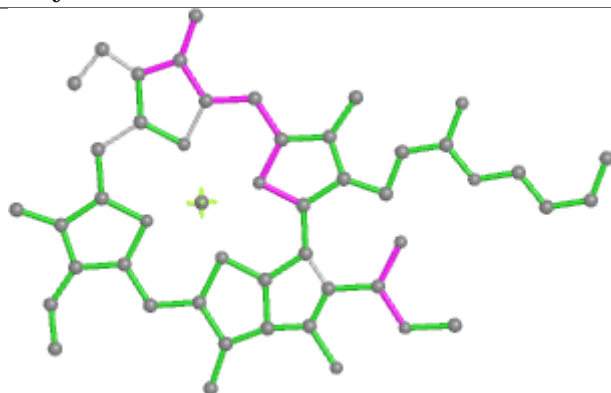


Rings

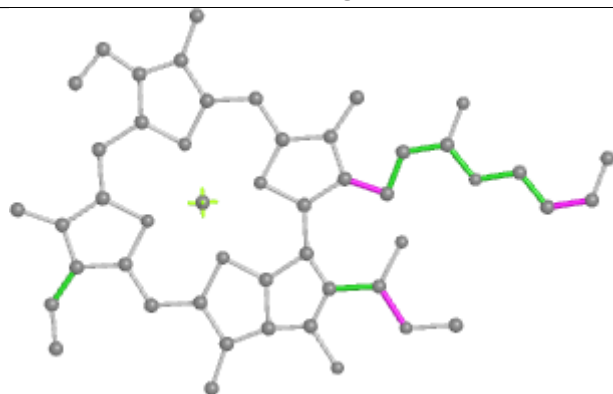
Ligand CLA y 305



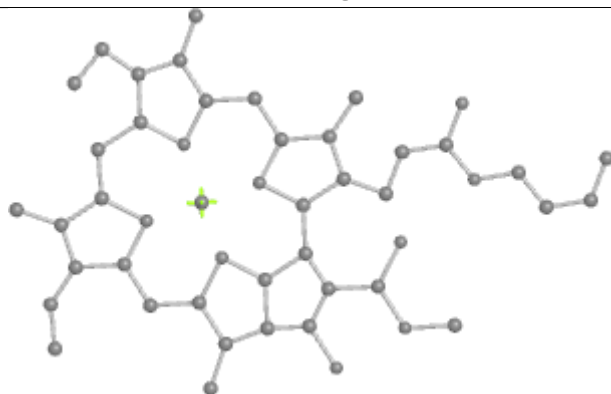
Bond lengths



Bond angles

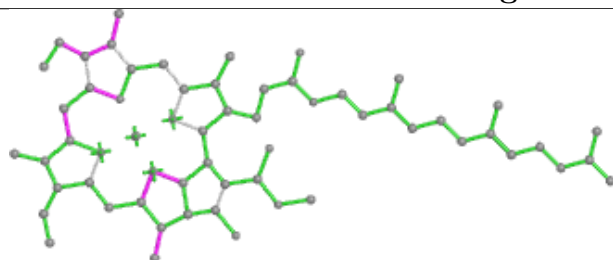


Torsions

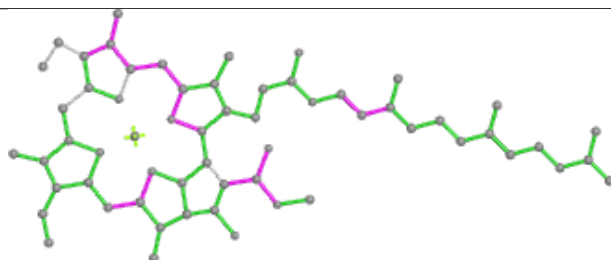


Rings

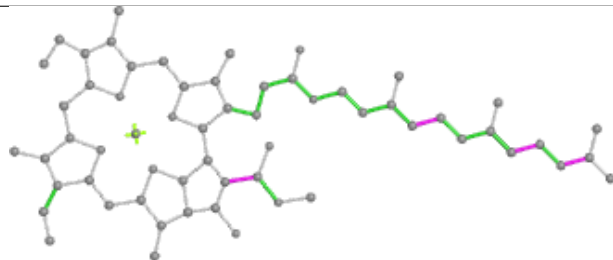
Ligand CLA AA 408



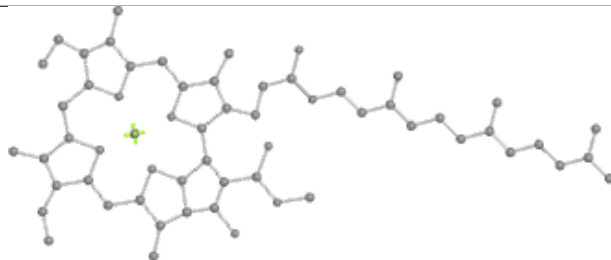
Bond lengths



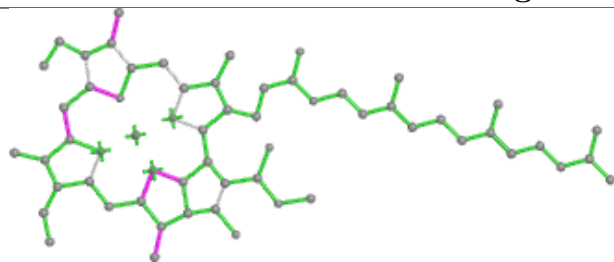
Bond angles



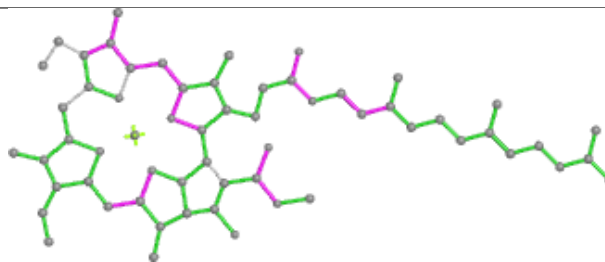
Torsions



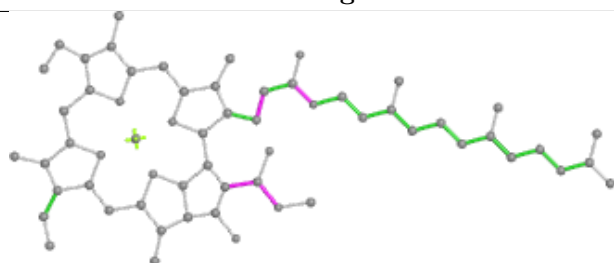
Rings

Ligand CLA B 609

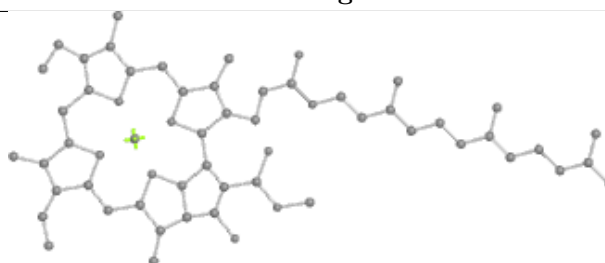
Bond lengths



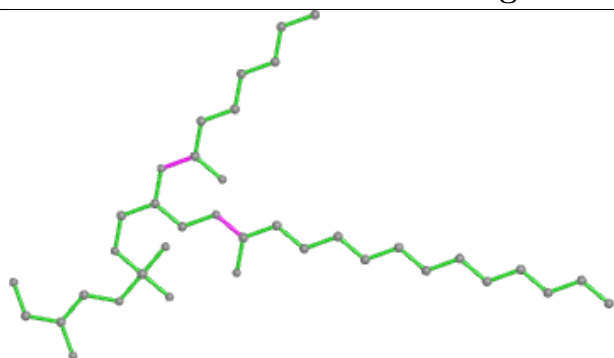
Bond angles



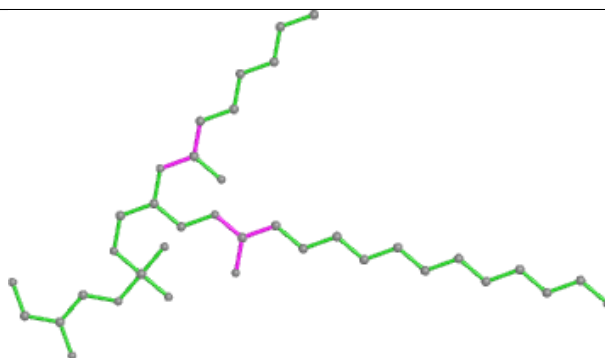
Torsions



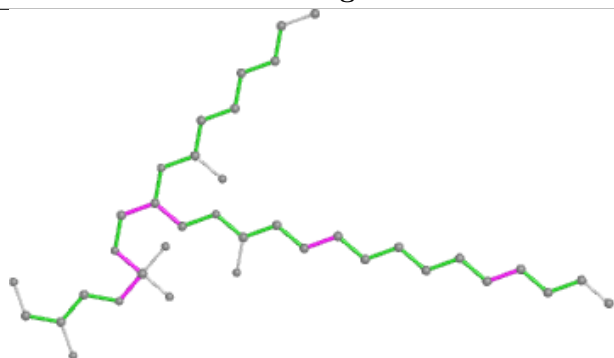
Rings

Ligand LHG CC 523

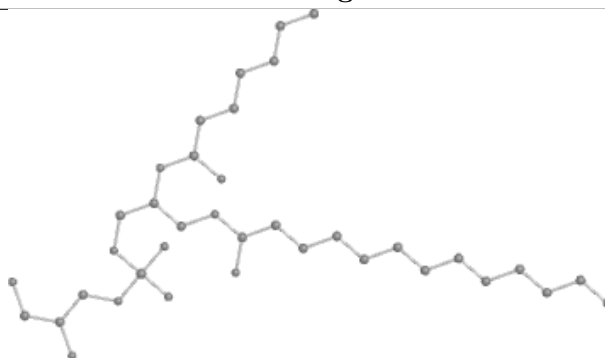
Bond lengths



Bond angles

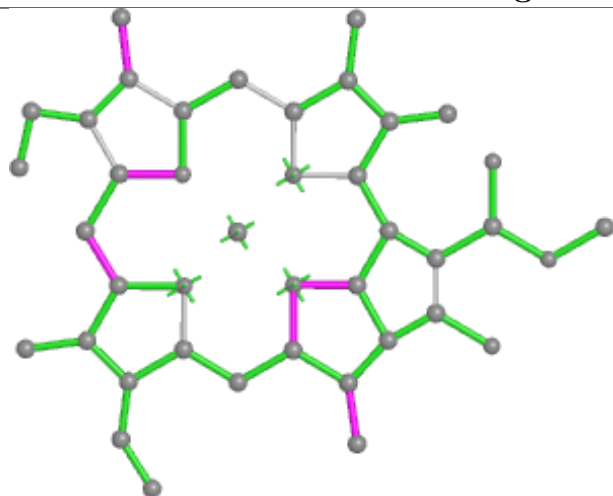


Torsions

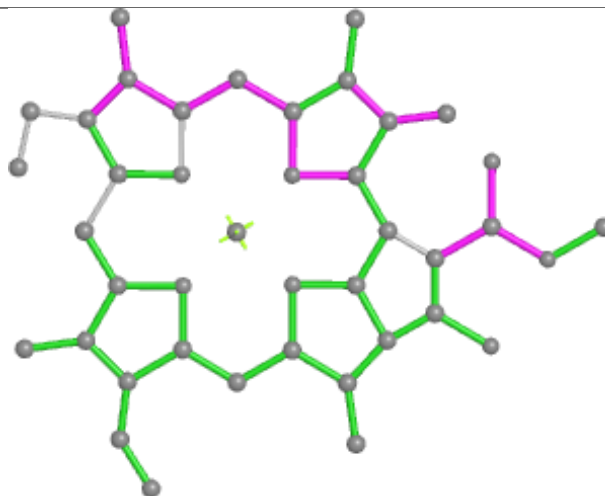


Rings

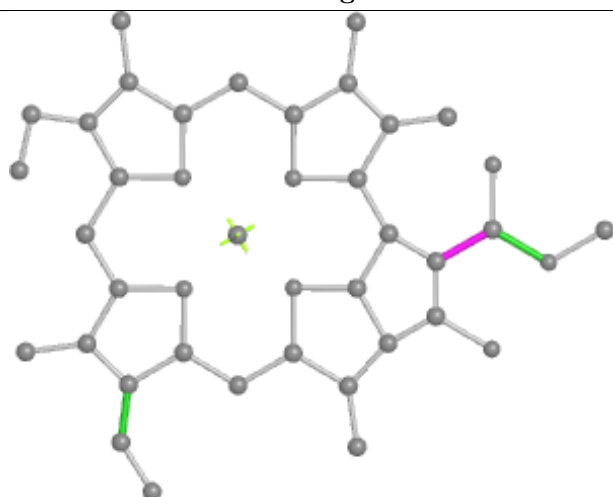
Ligand CLA B 611



Bond lengths



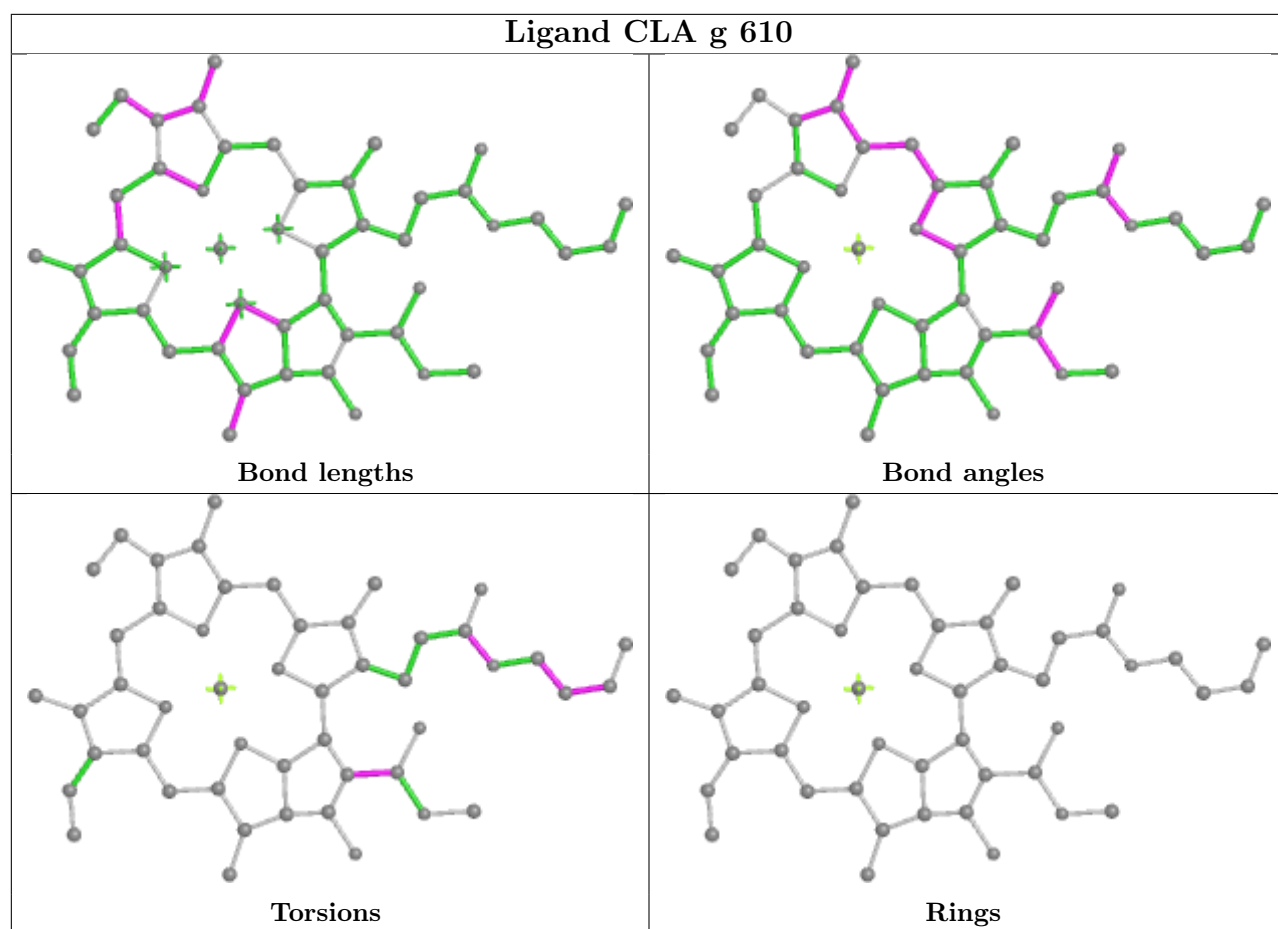
Bond angles



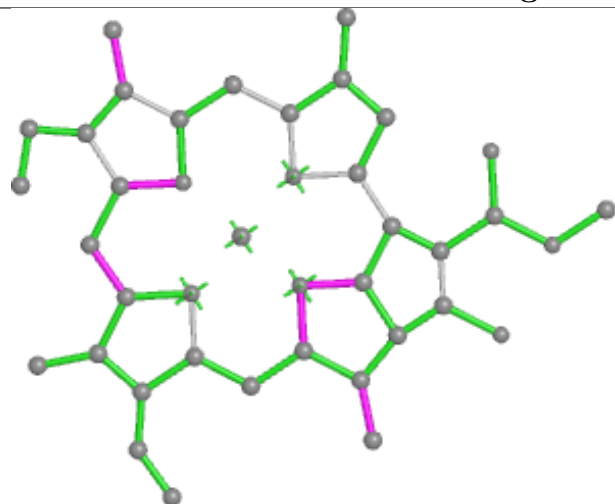
Torsions



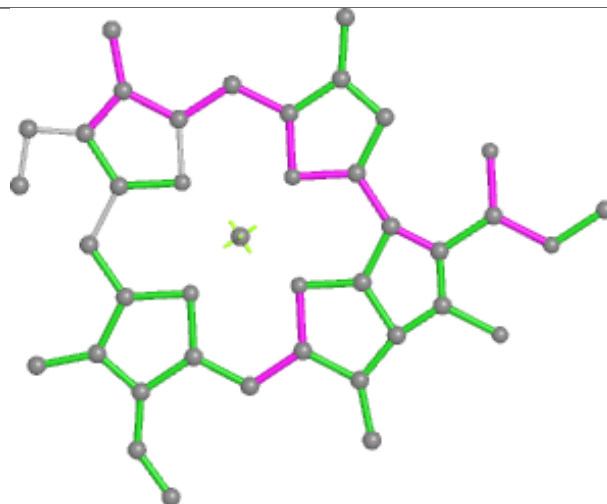
Rings



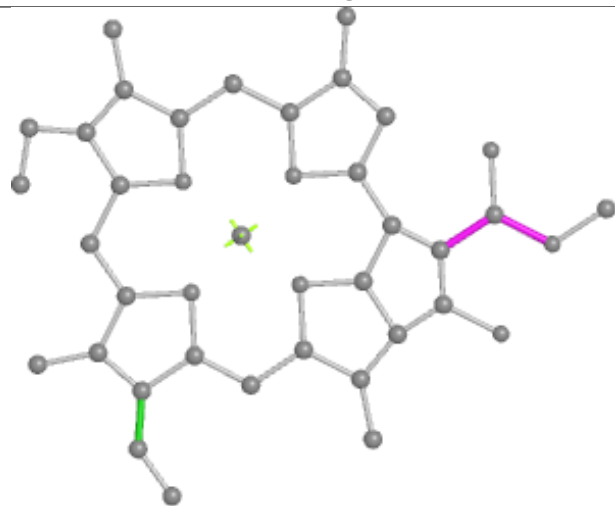
Ligand CLA 3 611



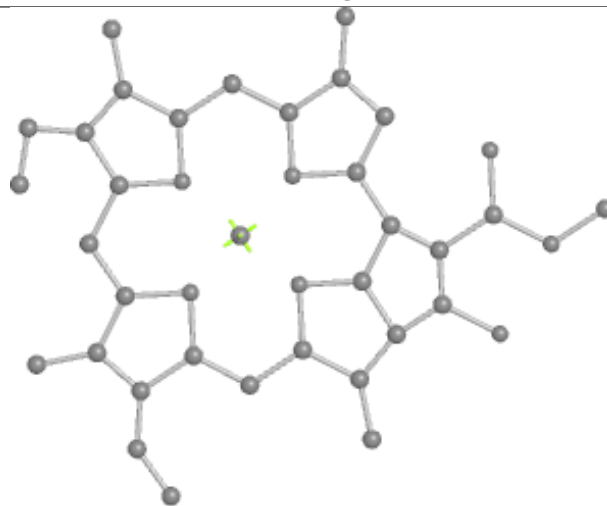
Bond lengths



Bond angles

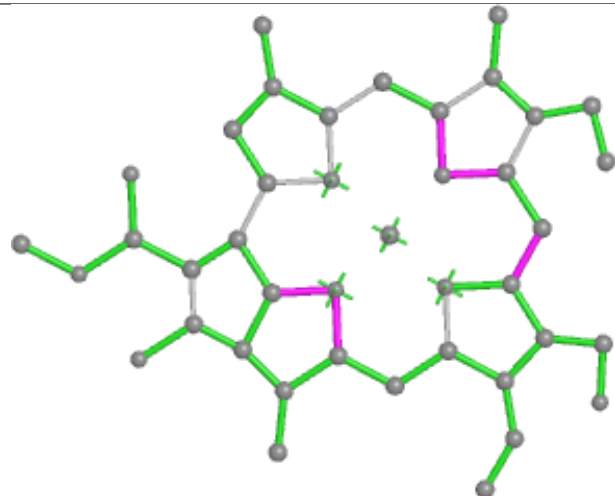


Torsions

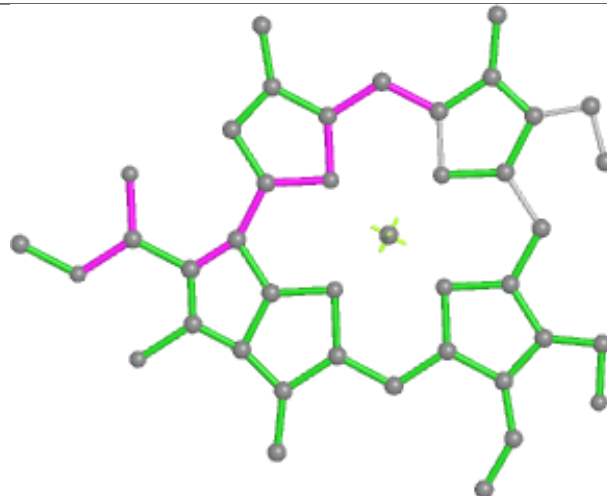


Rings

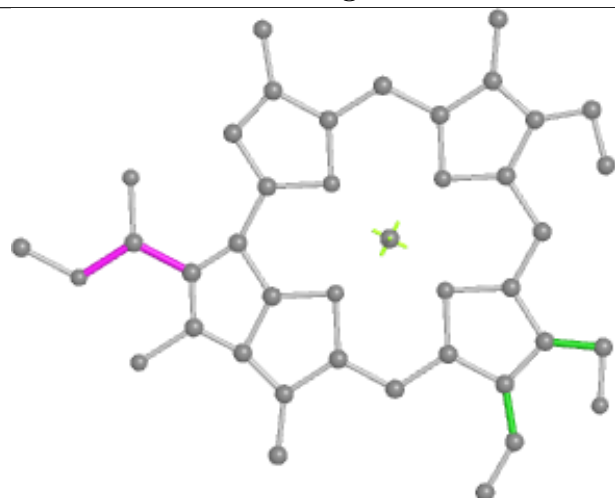
Ligand CHL 1 606



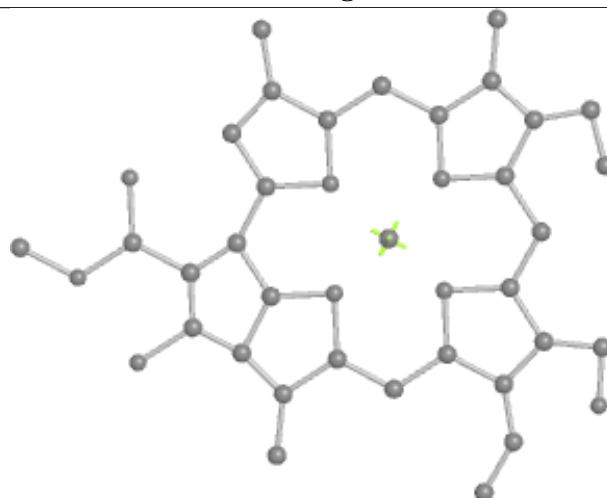
Bond lengths



Bond angles

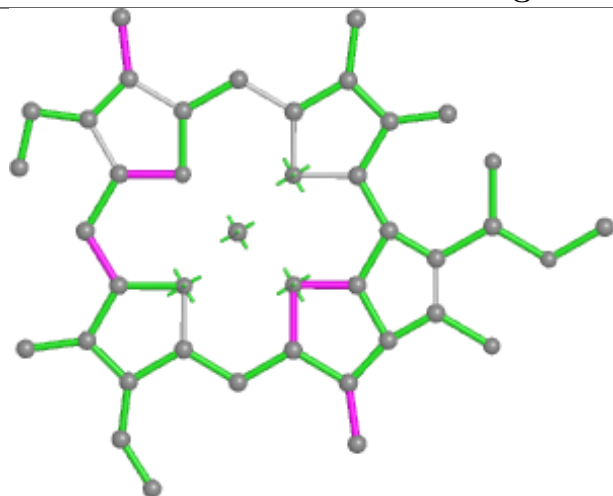


Torsions

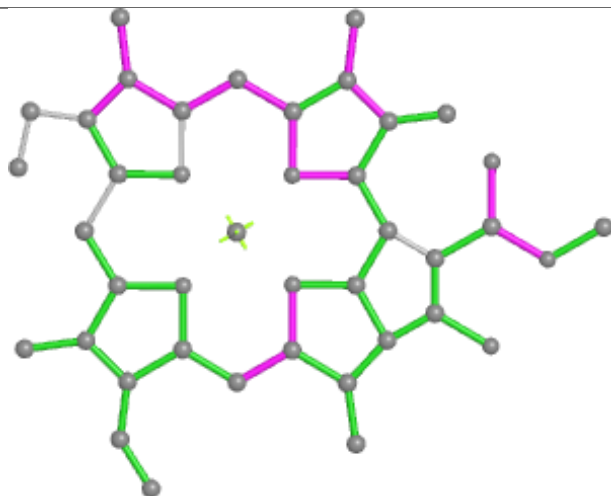


Rings

Ligand CLA N 604



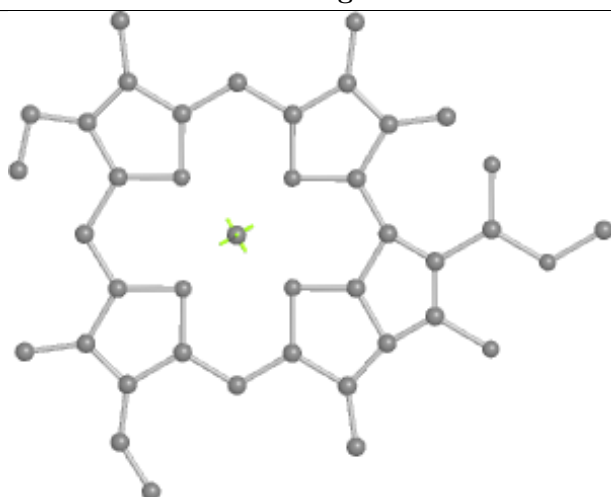
Bond lengths



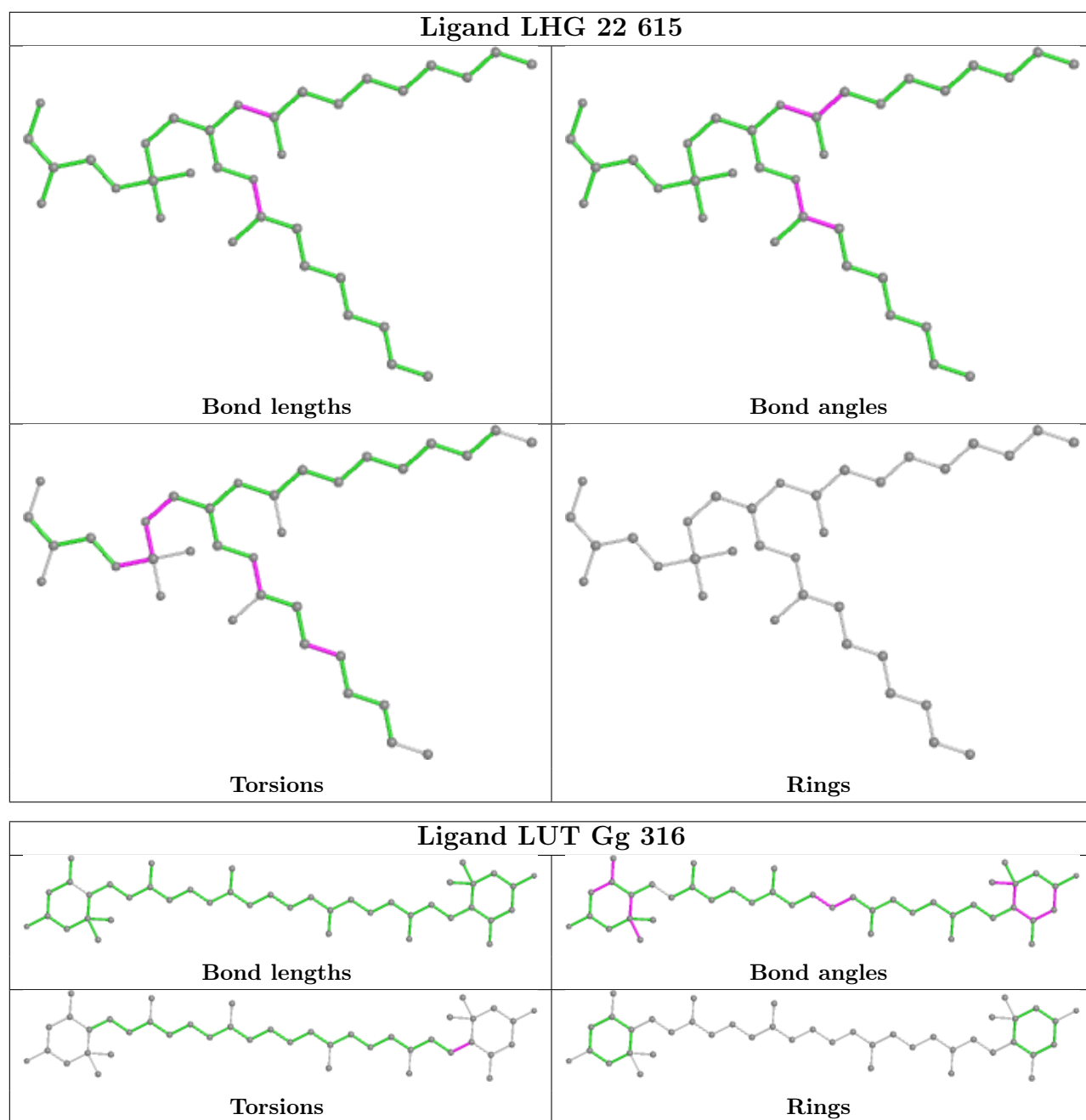
Bond angles



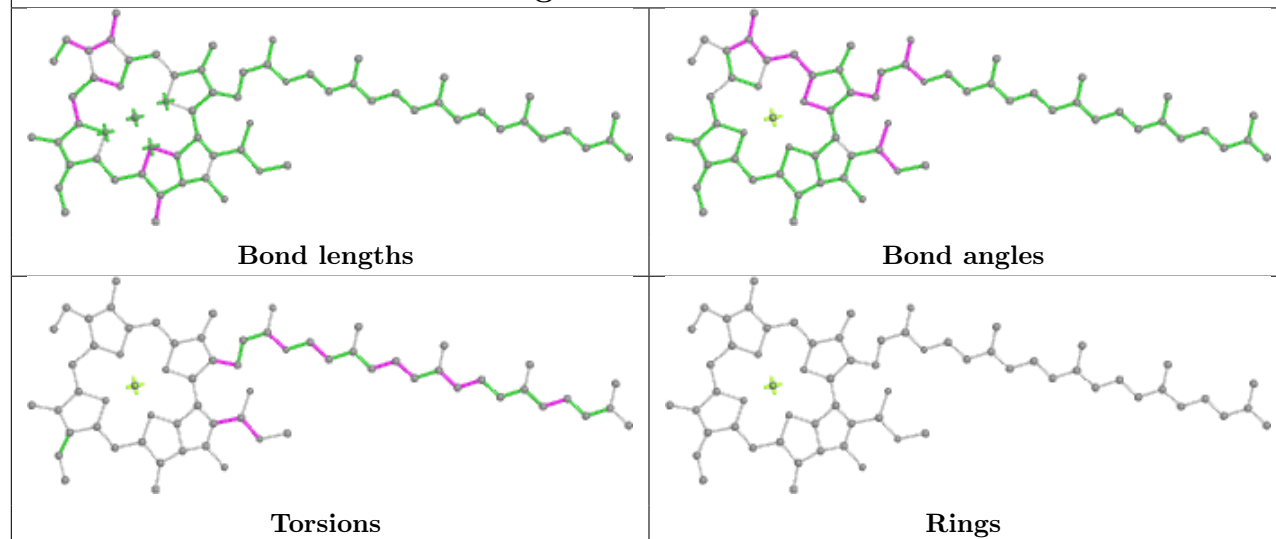
Torsions



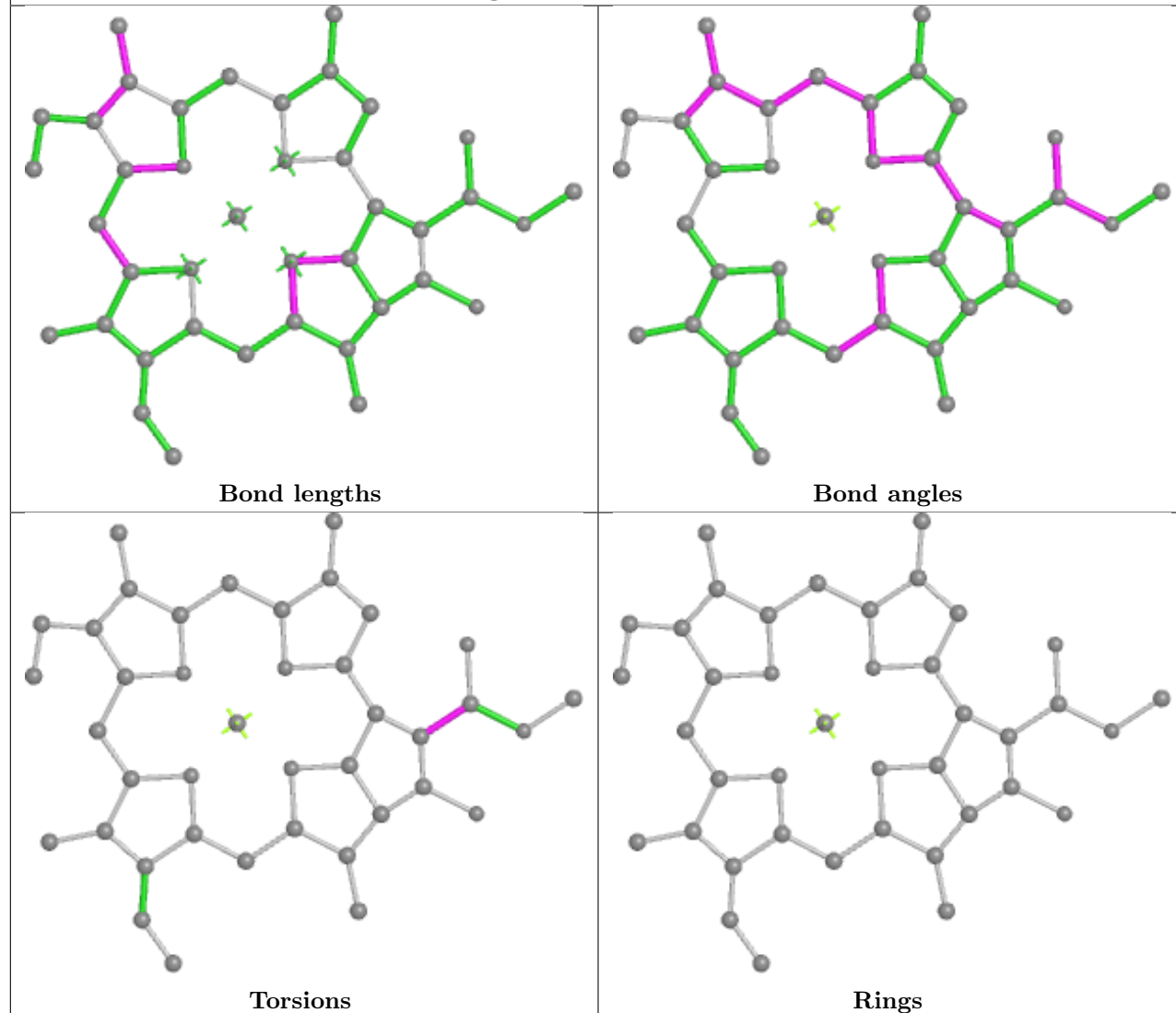
Rings



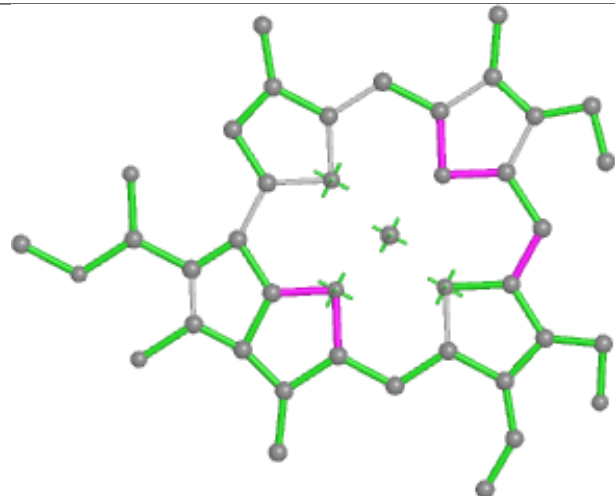
Ligand CLA b 603



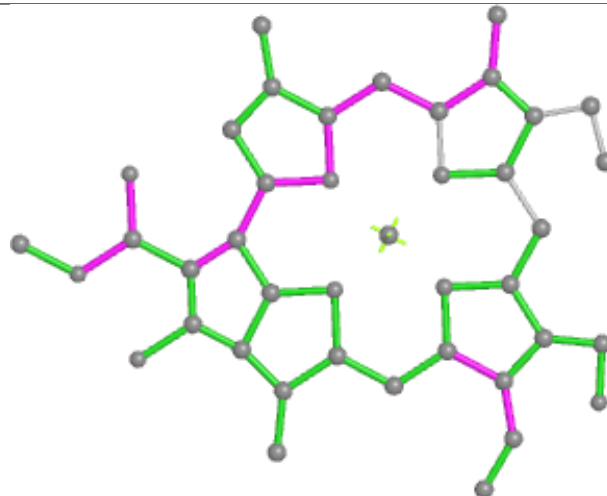
Ligand CLA 22 602



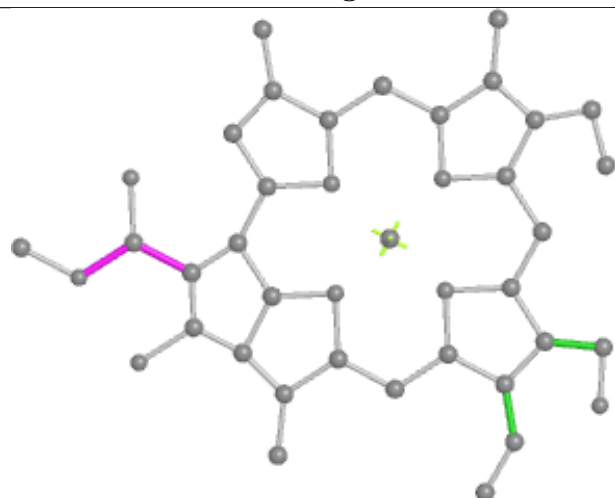
Ligand CHL 3 606



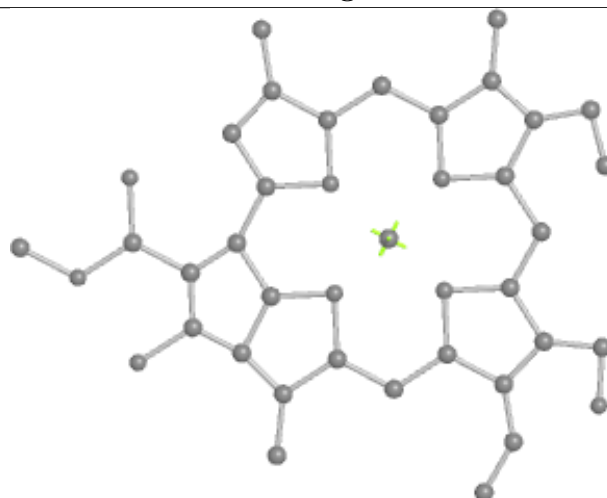
Bond lengths



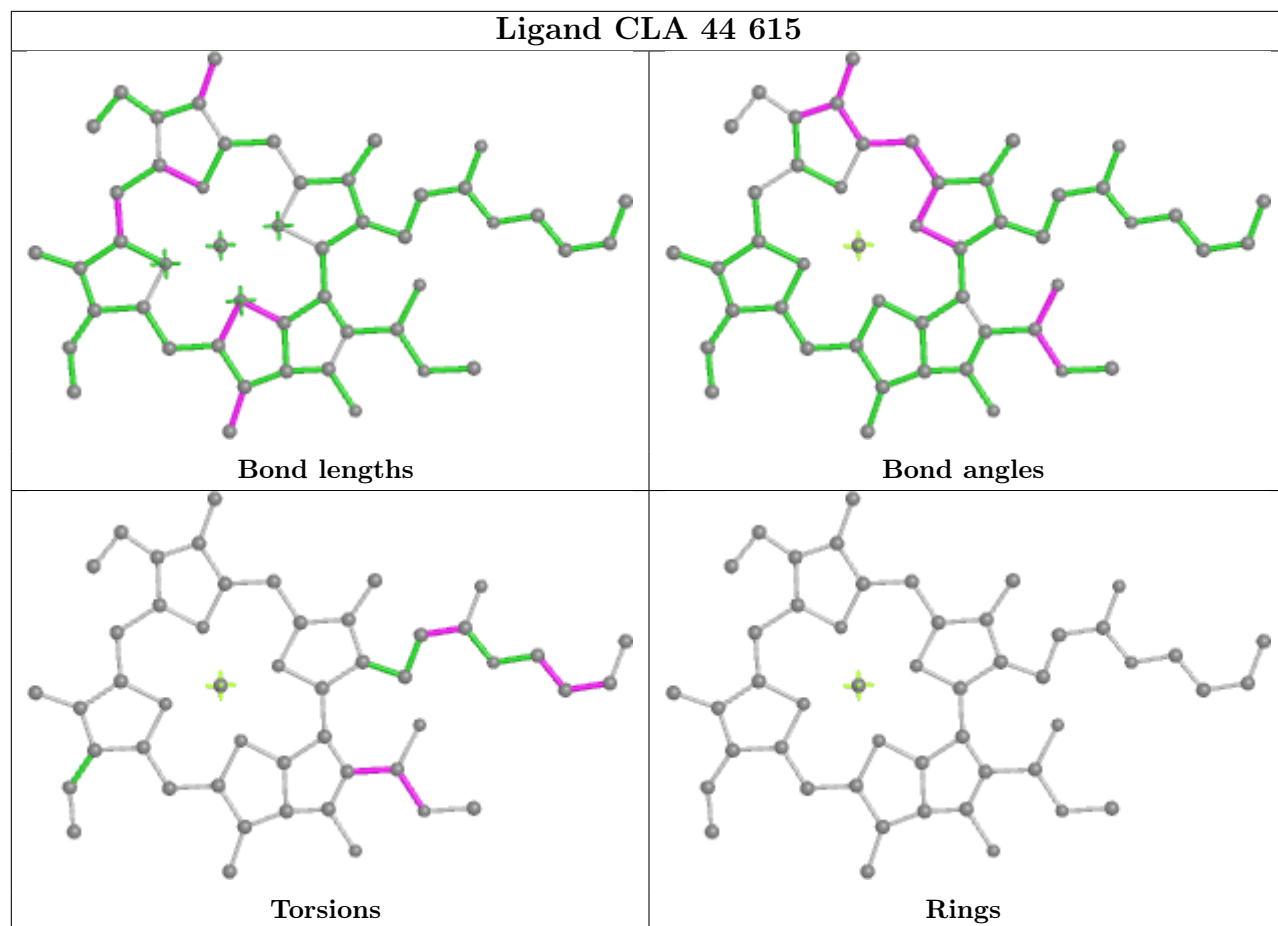
Bond angles

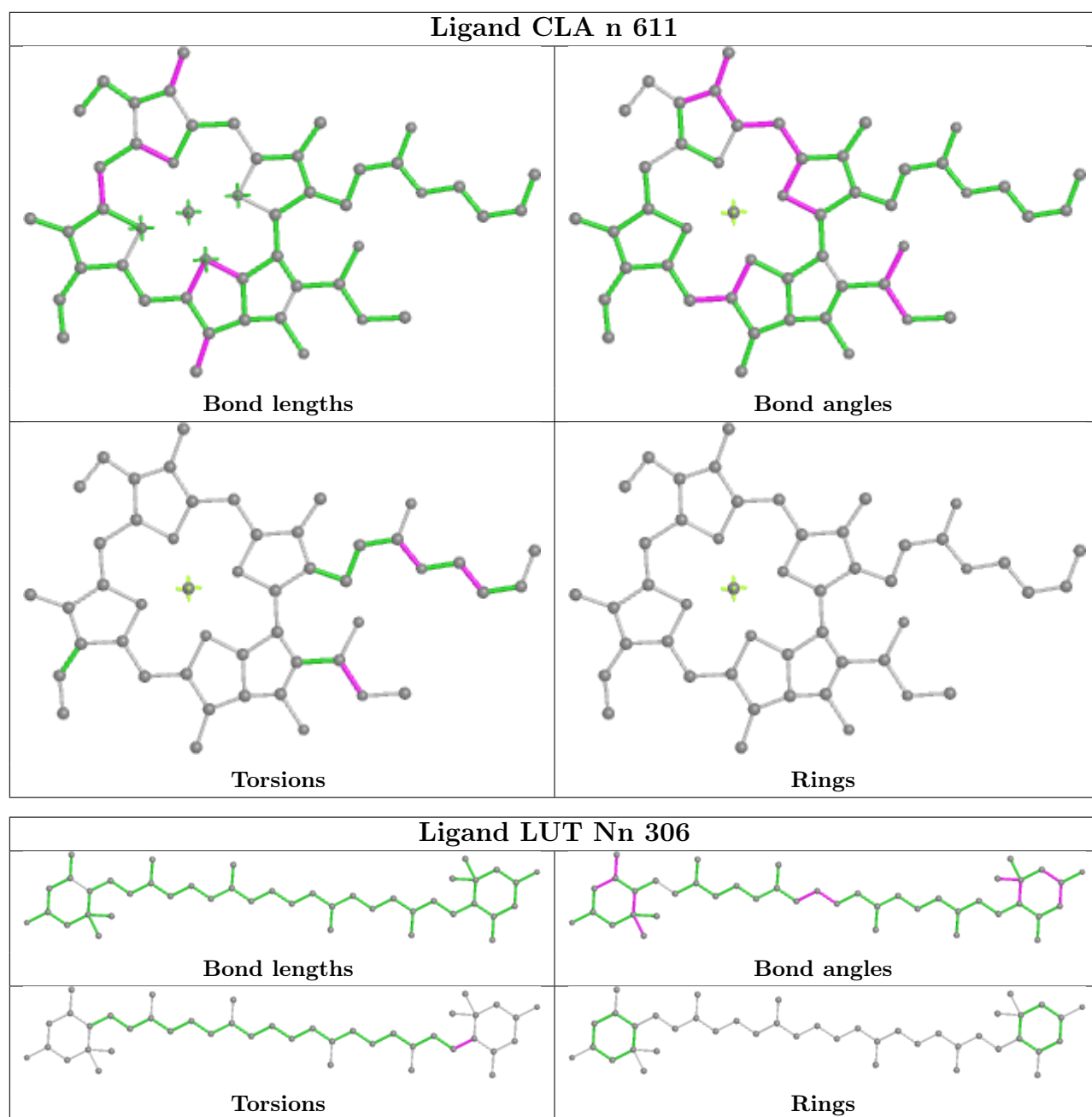


Torsions

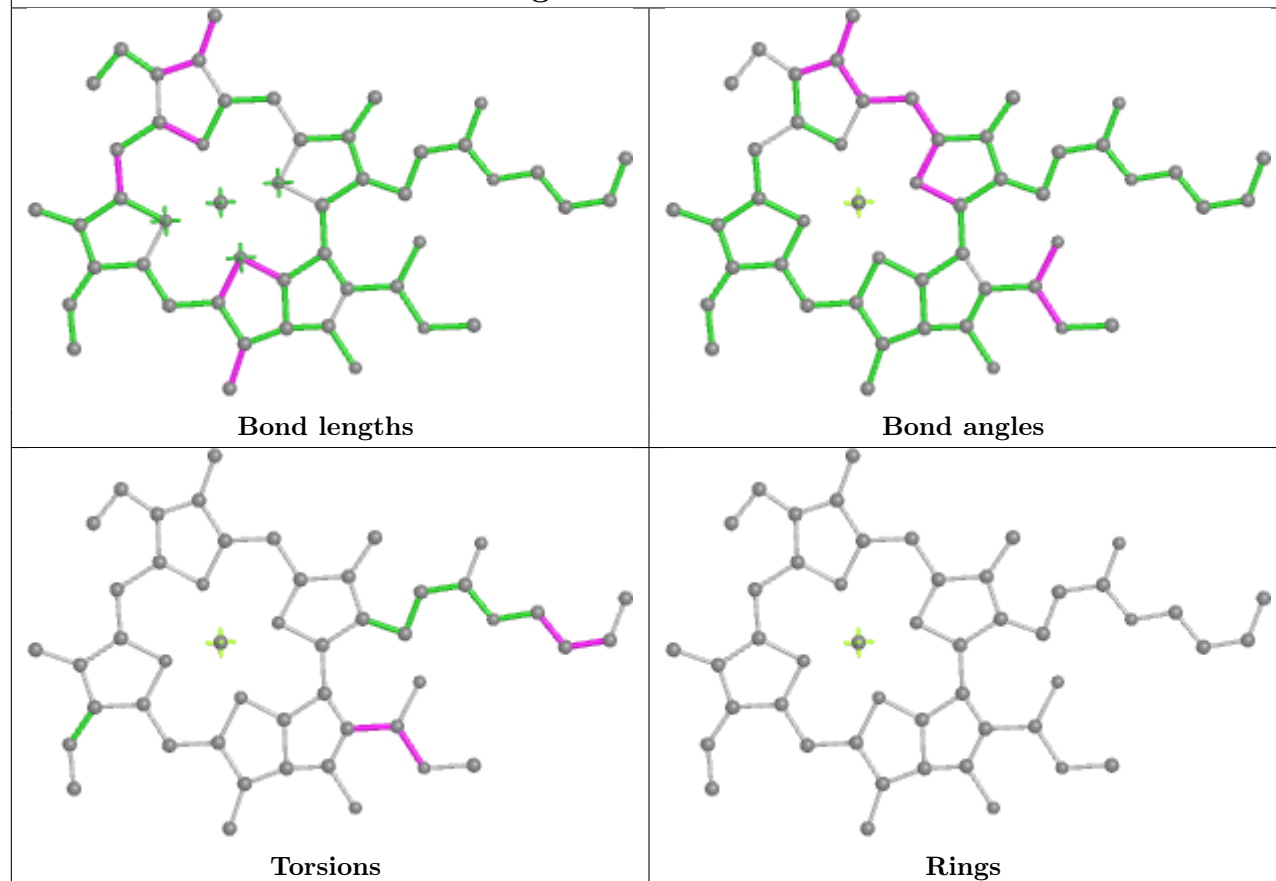


Rings

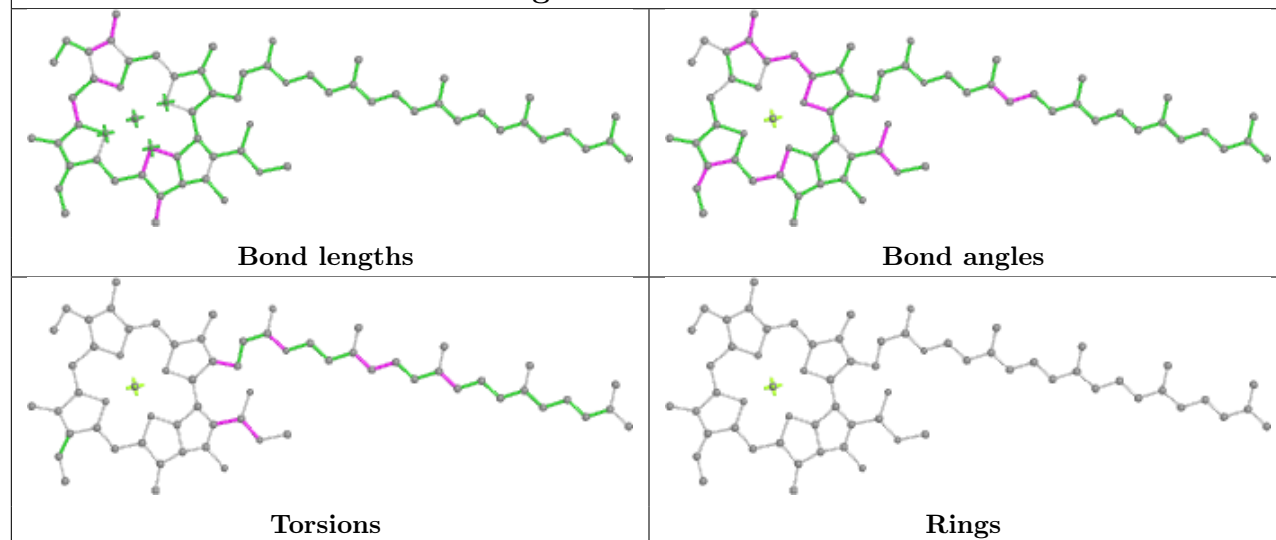


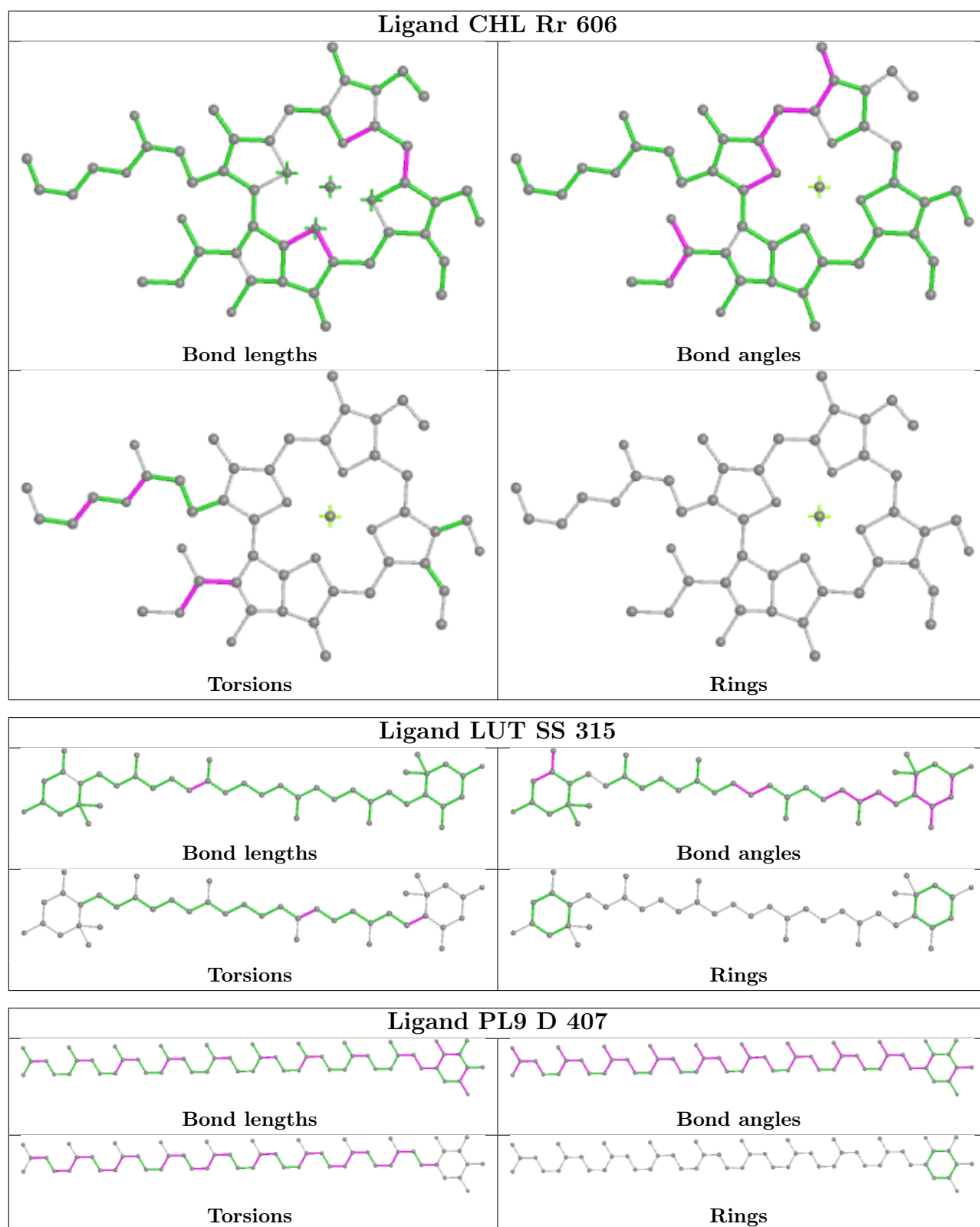


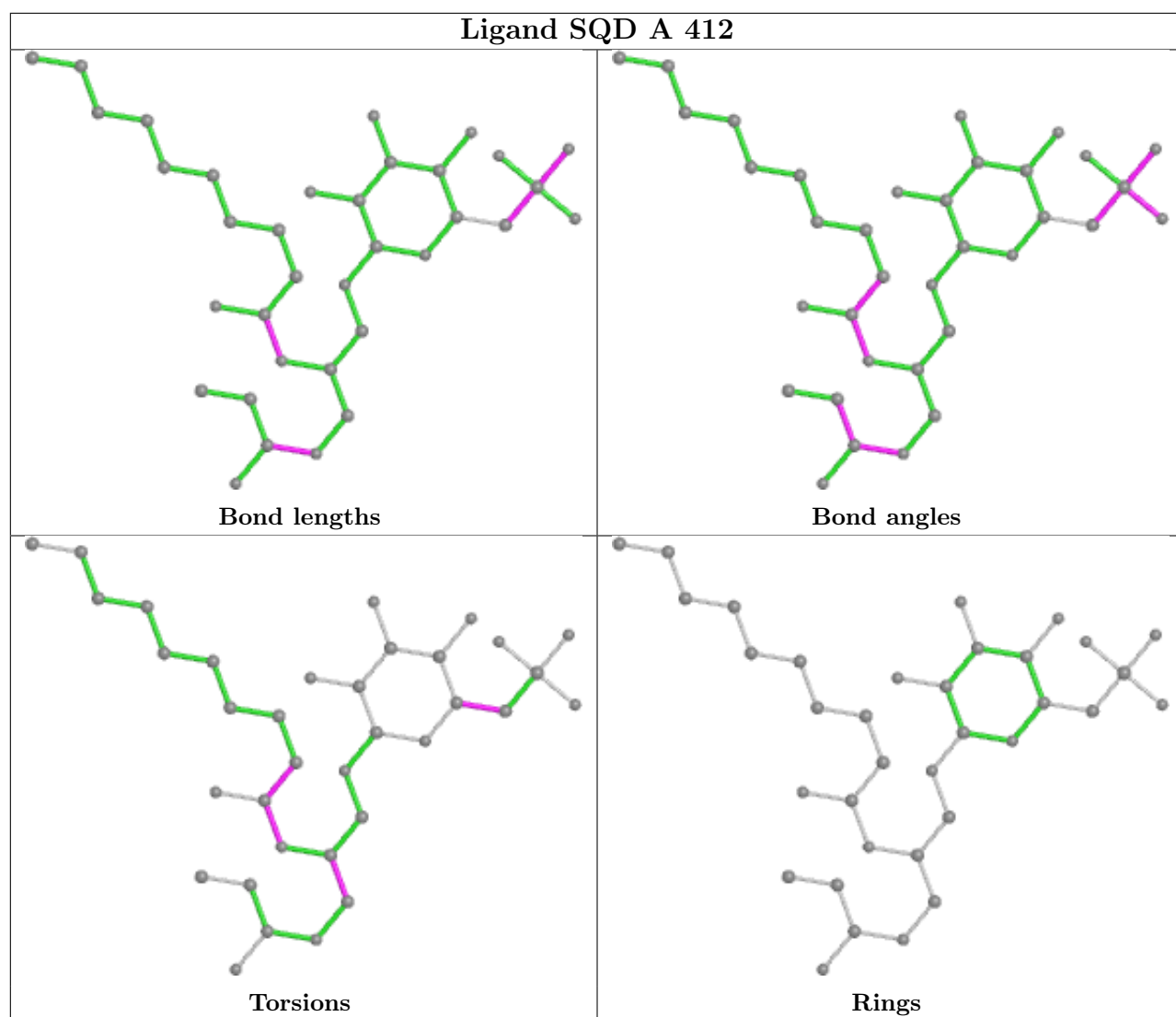
Ligand CLA R 601



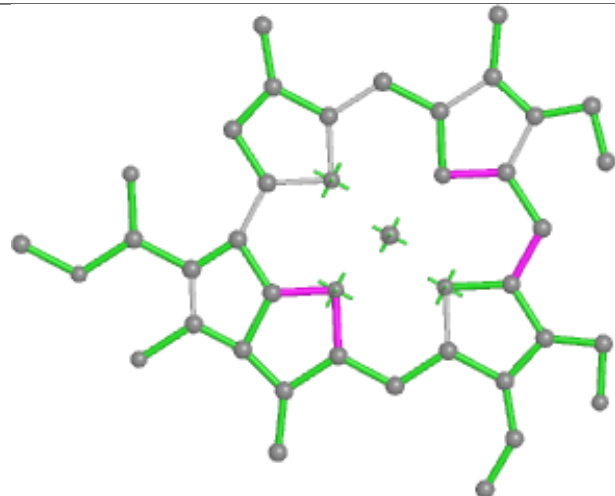
Ligand CLA B 621



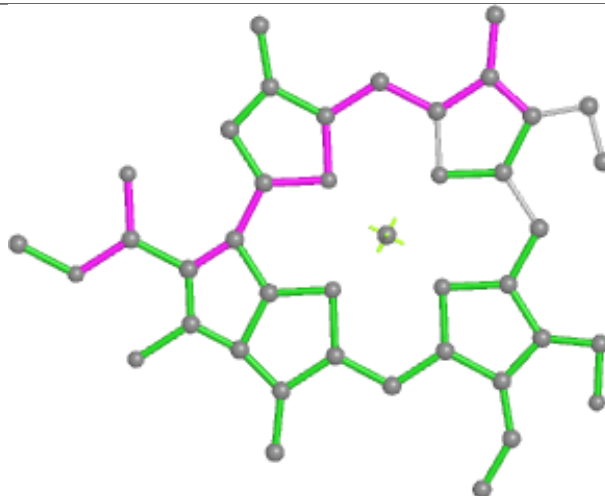




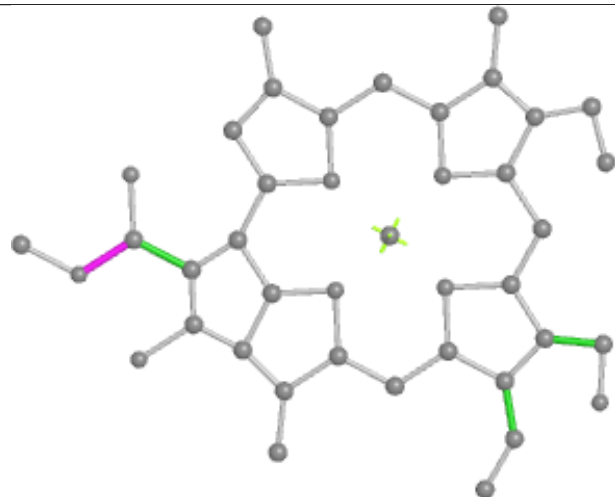
Ligand CHL 1 607



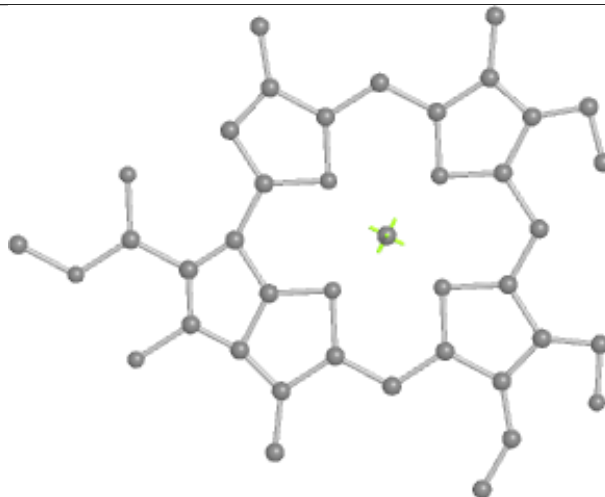
Bond lengths



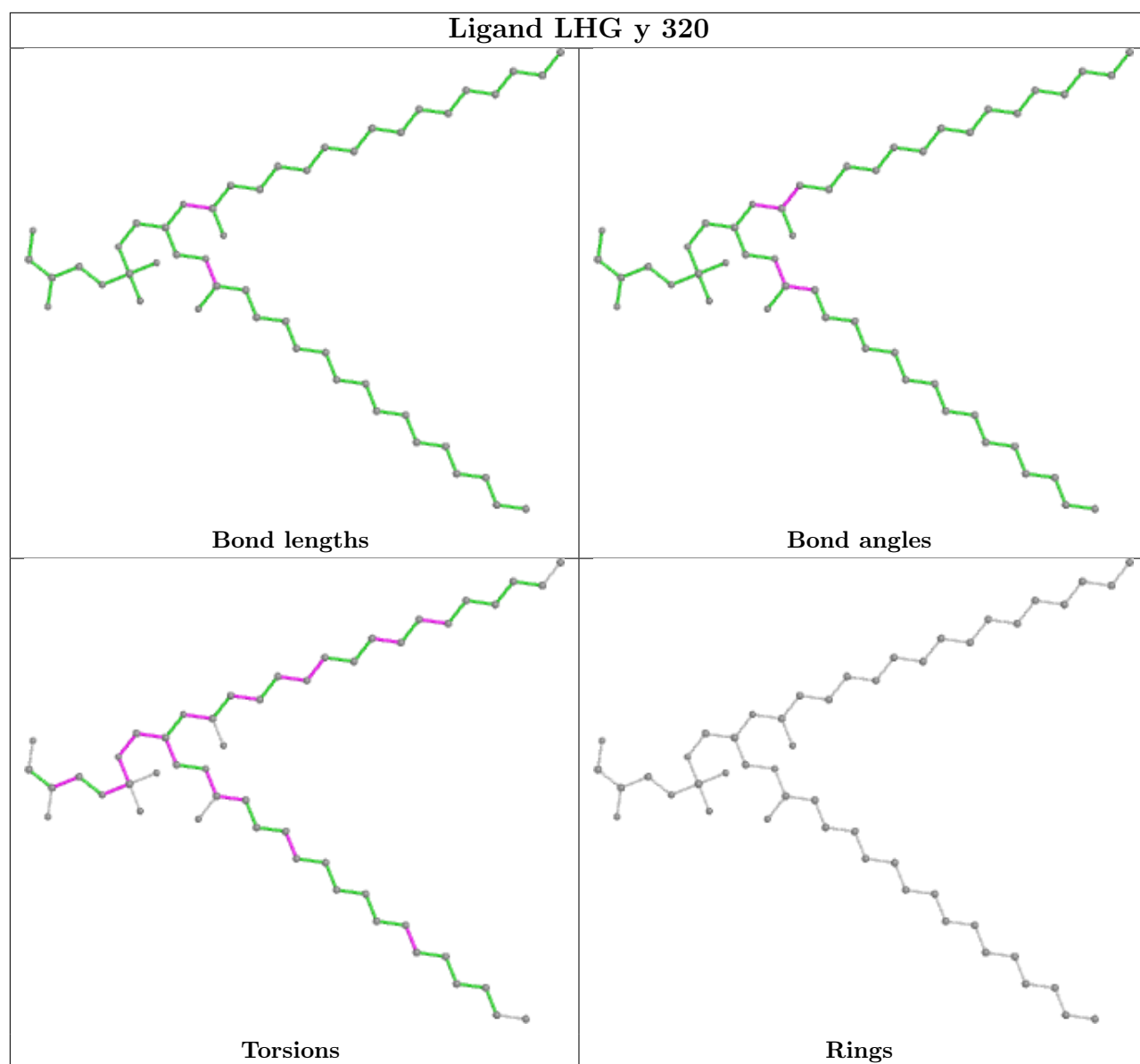
Bond angles

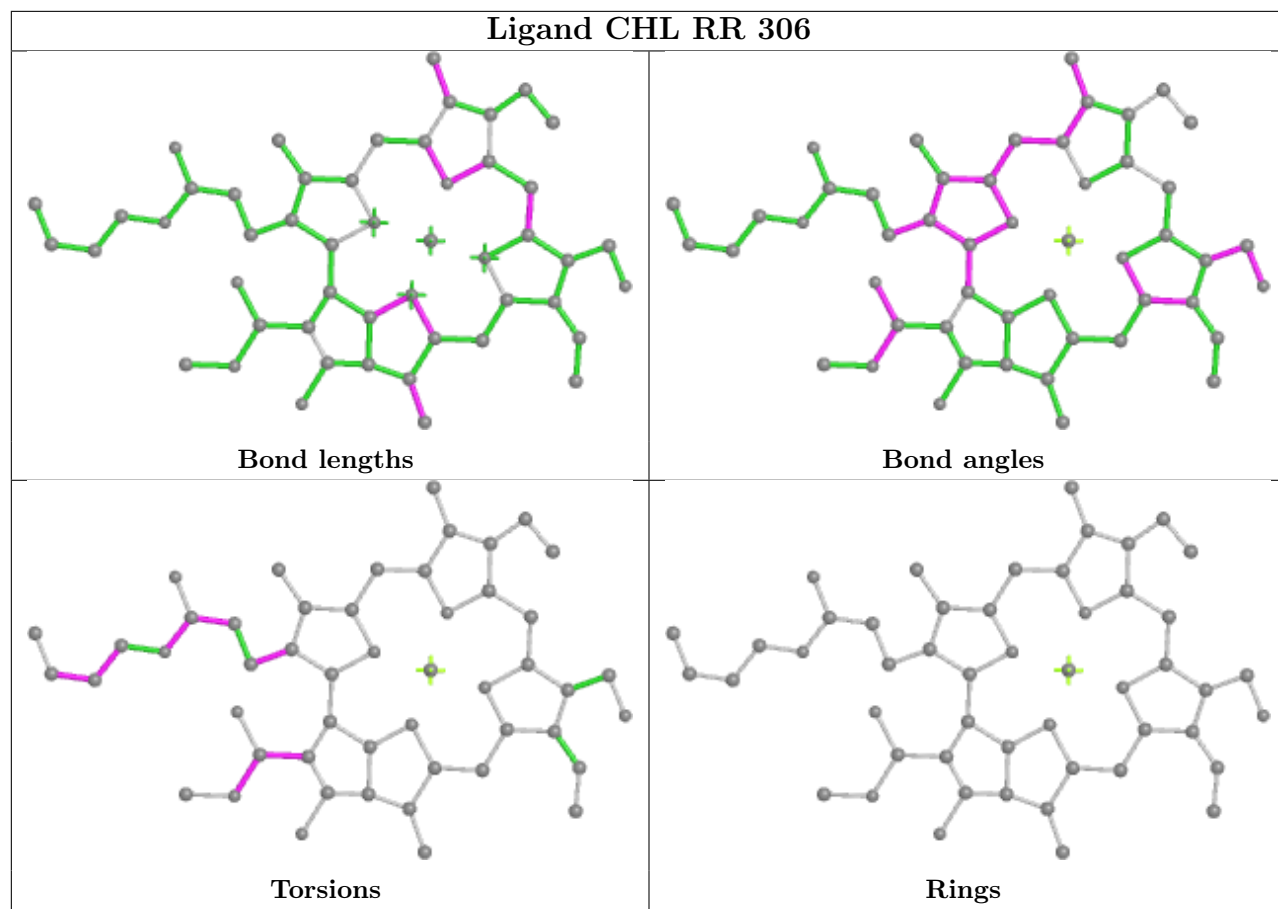


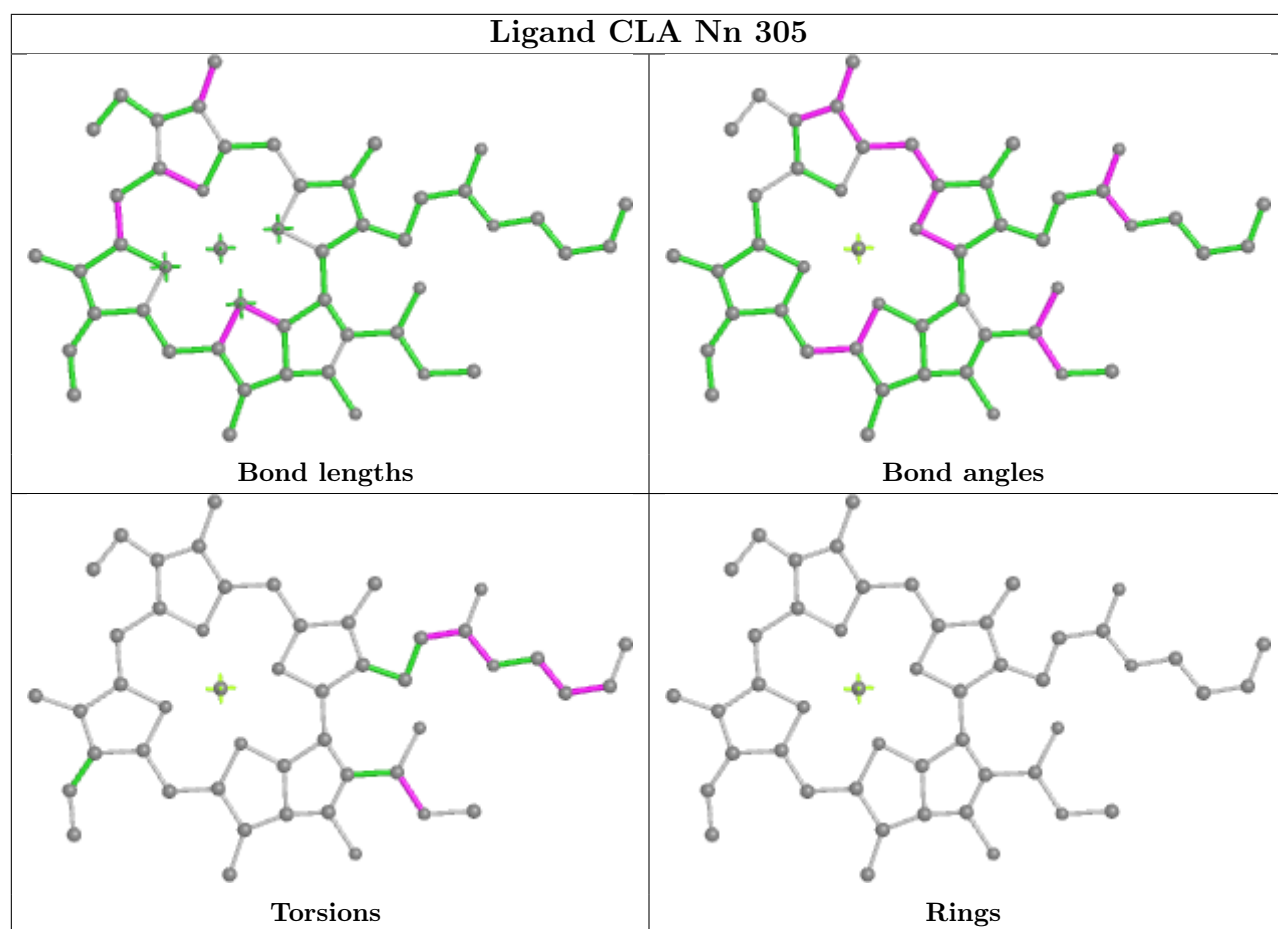
Torsions



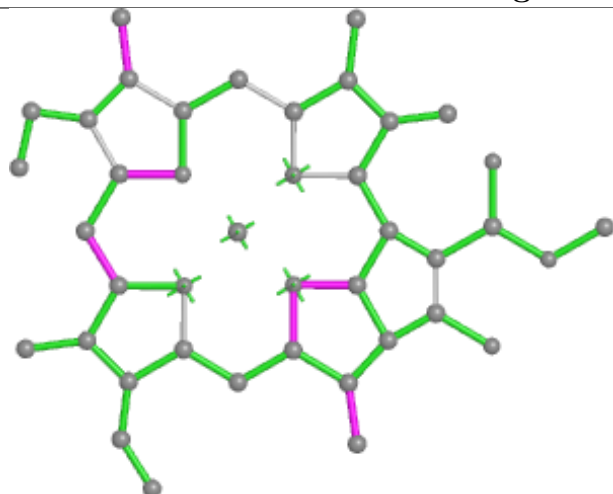
Rings



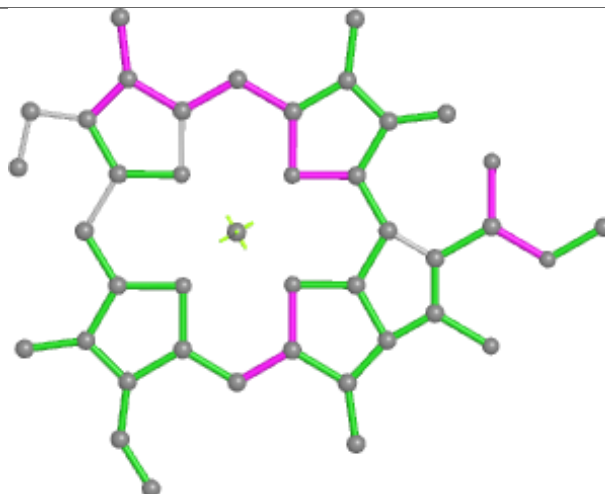




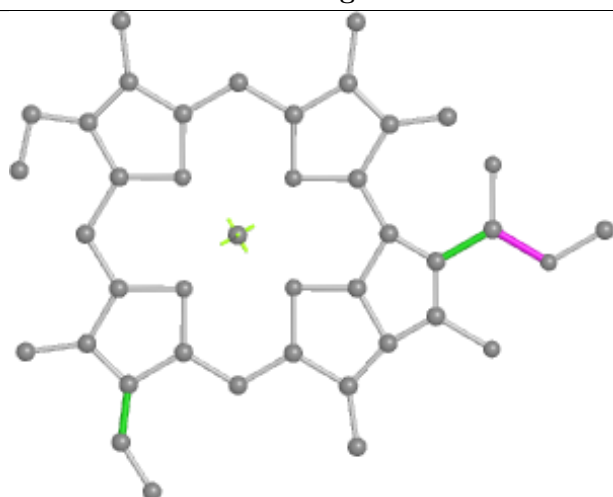
Ligand CLA G 614



Bond lengths



Bond angles

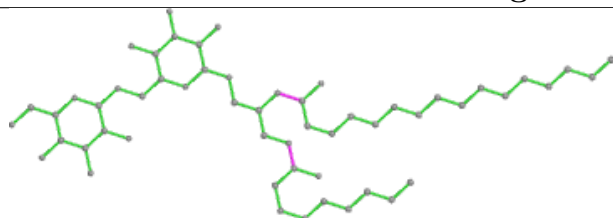


Torsions

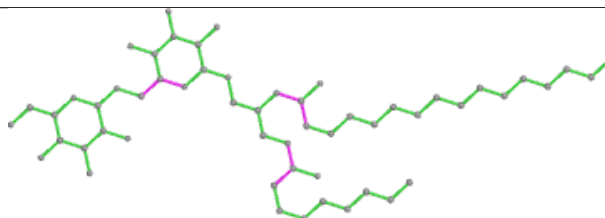


Rings

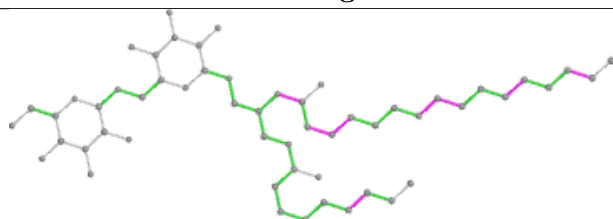
Ligand DGD C 519



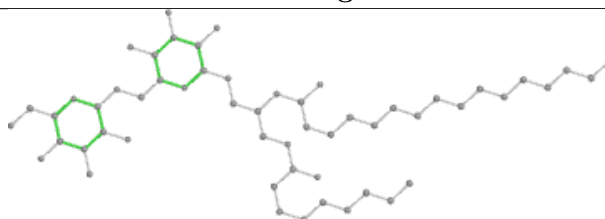
Bond lengths



Bond angles

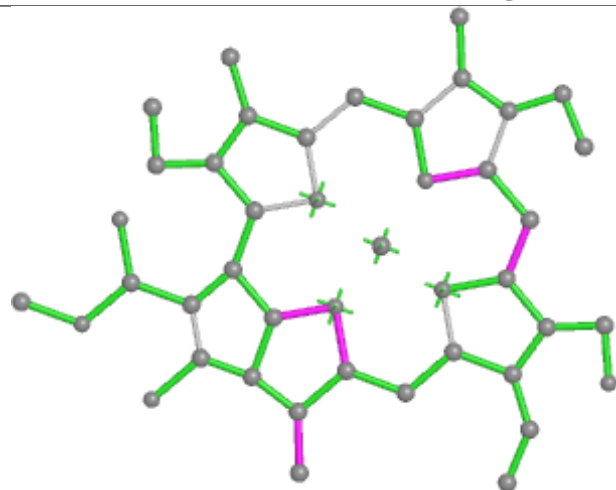


Torsions

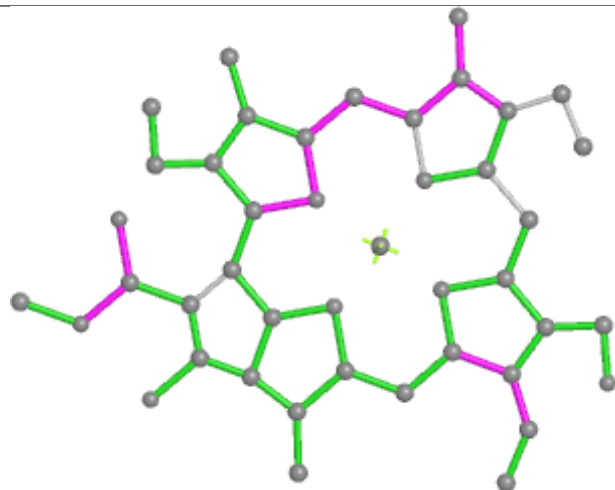


Rings

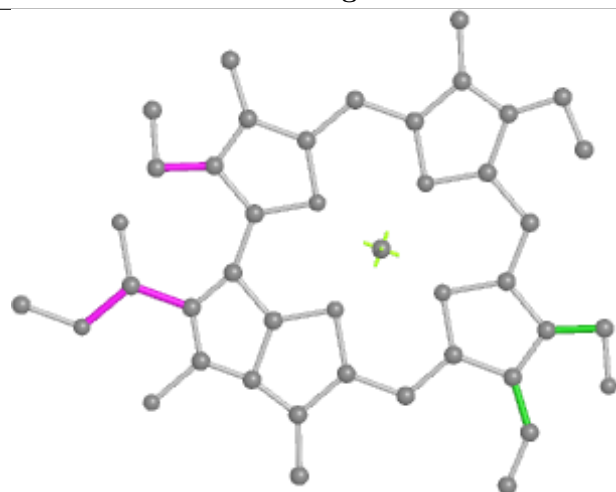
Ligand CHL GG 609



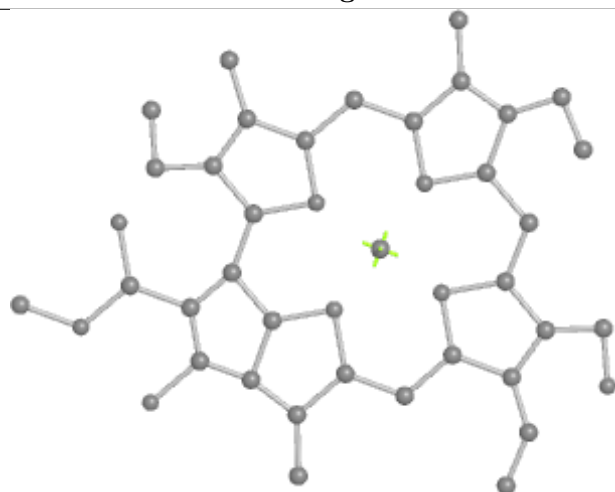
Bond lengths



Bond angles

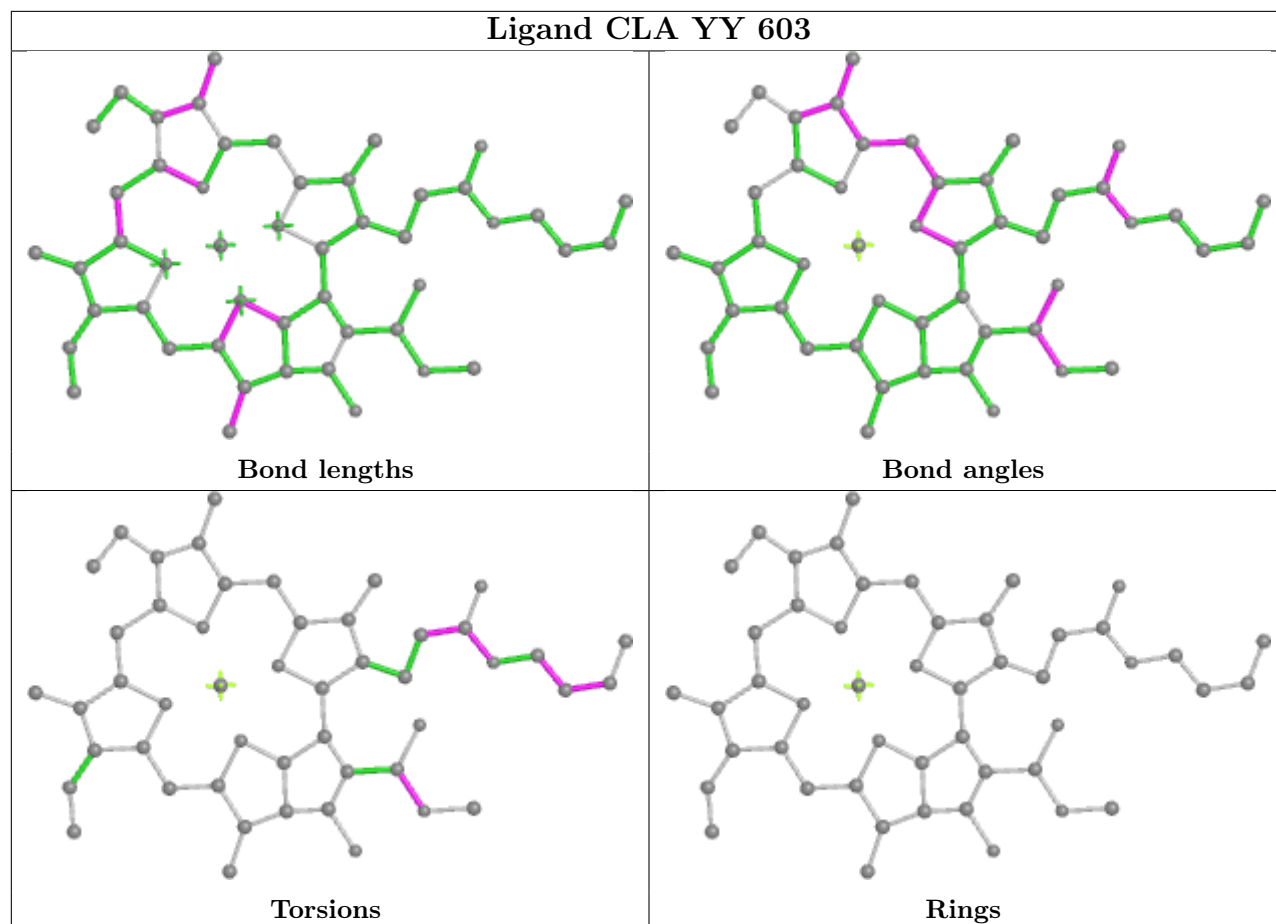


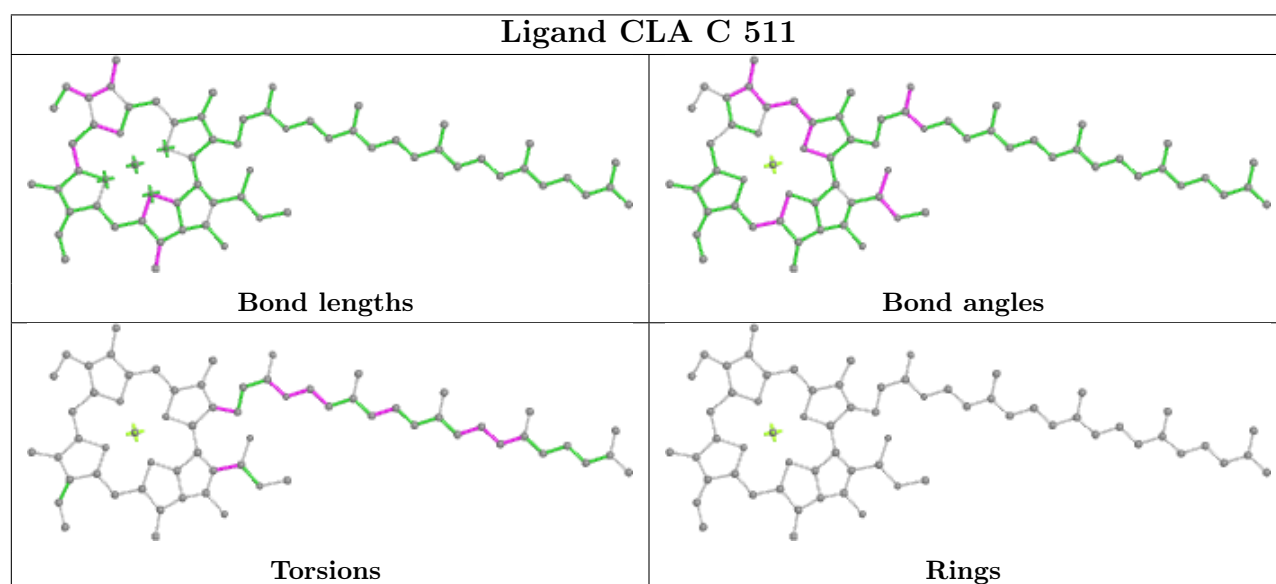
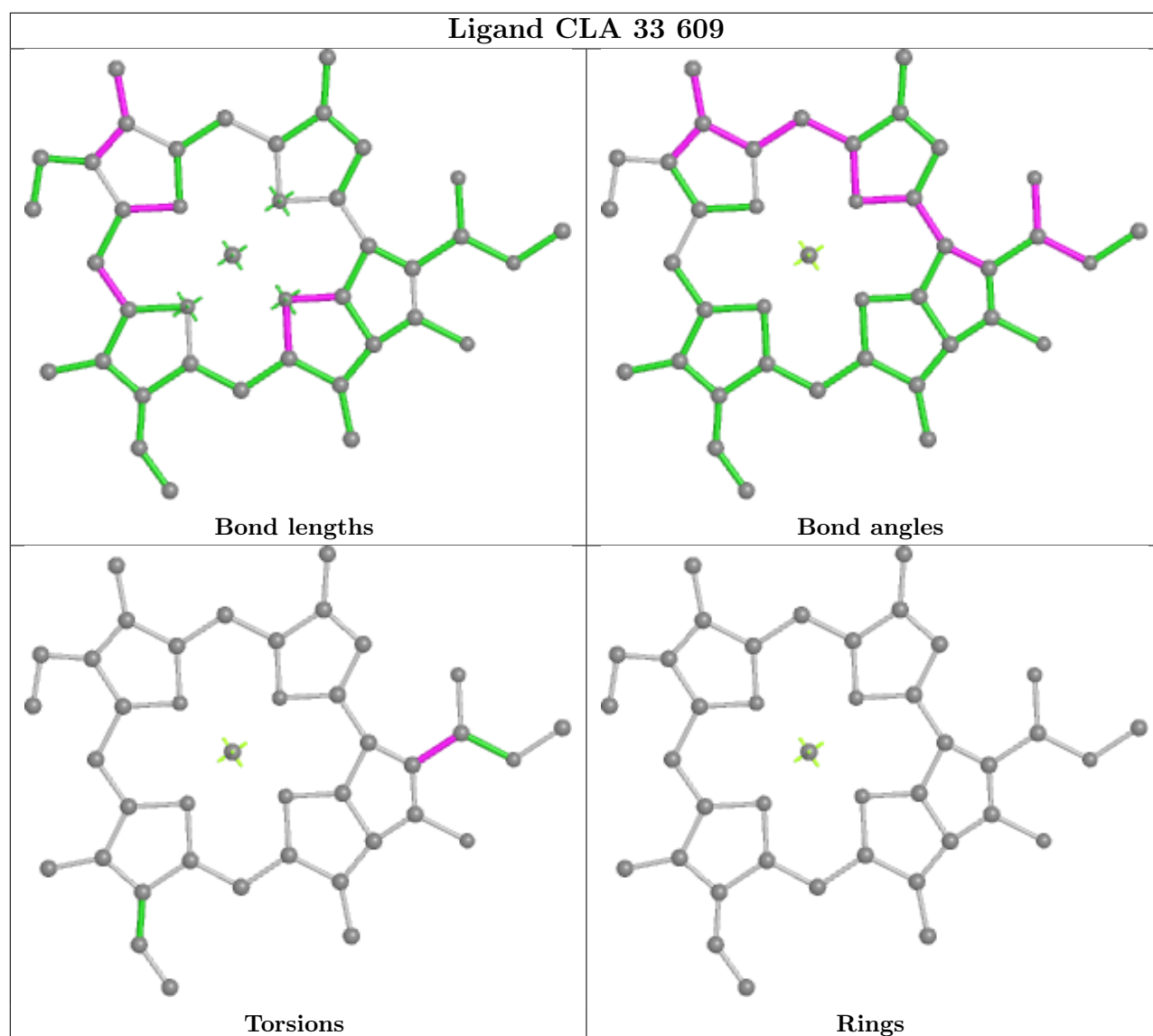
Torsions

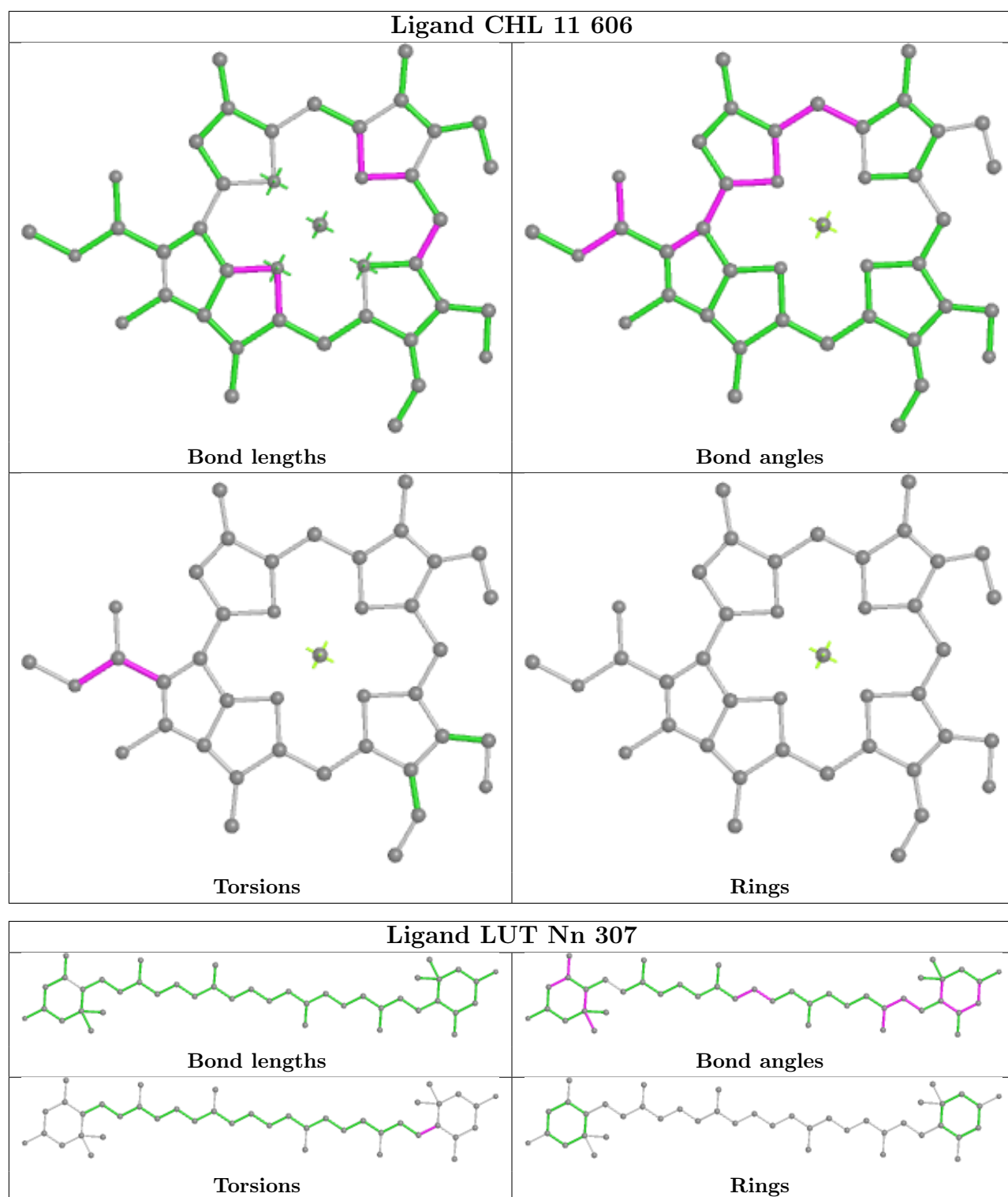


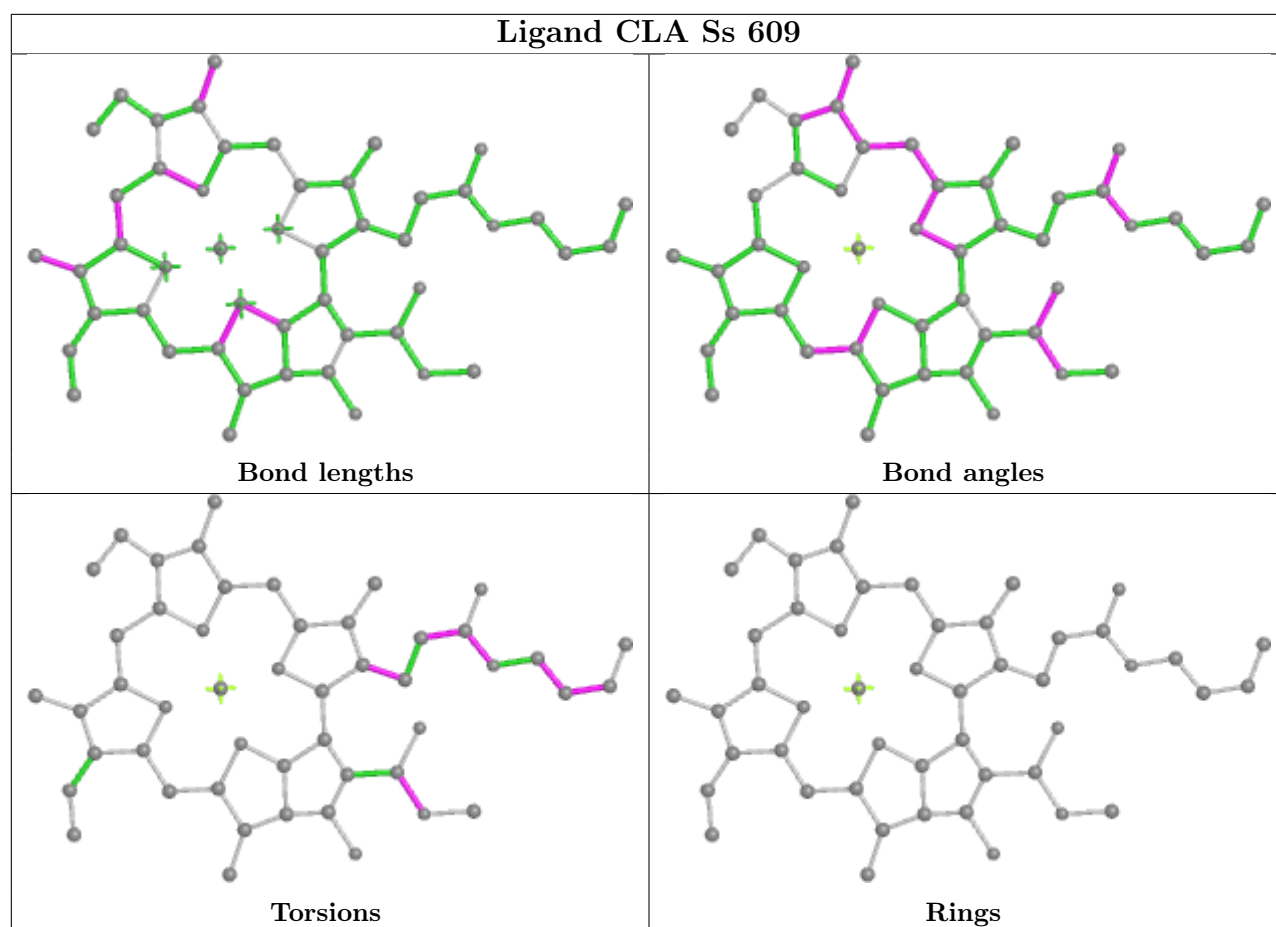
Rings

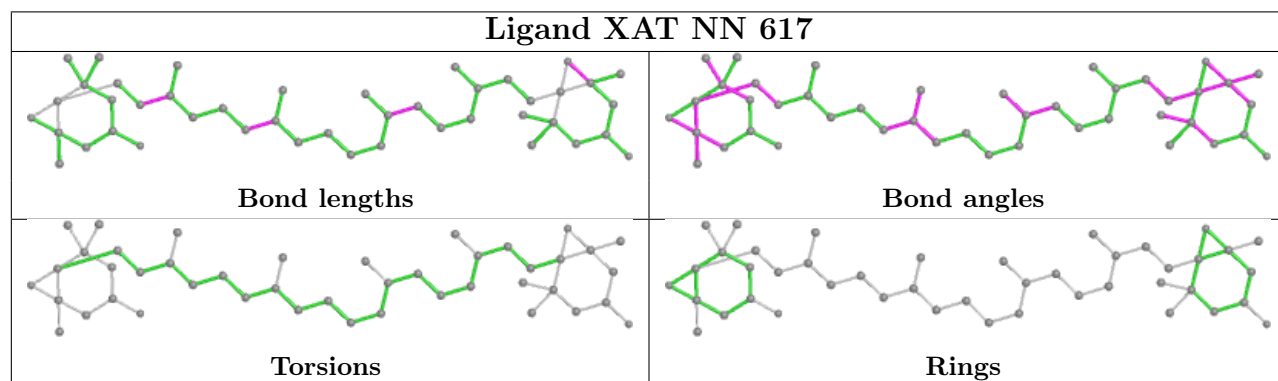
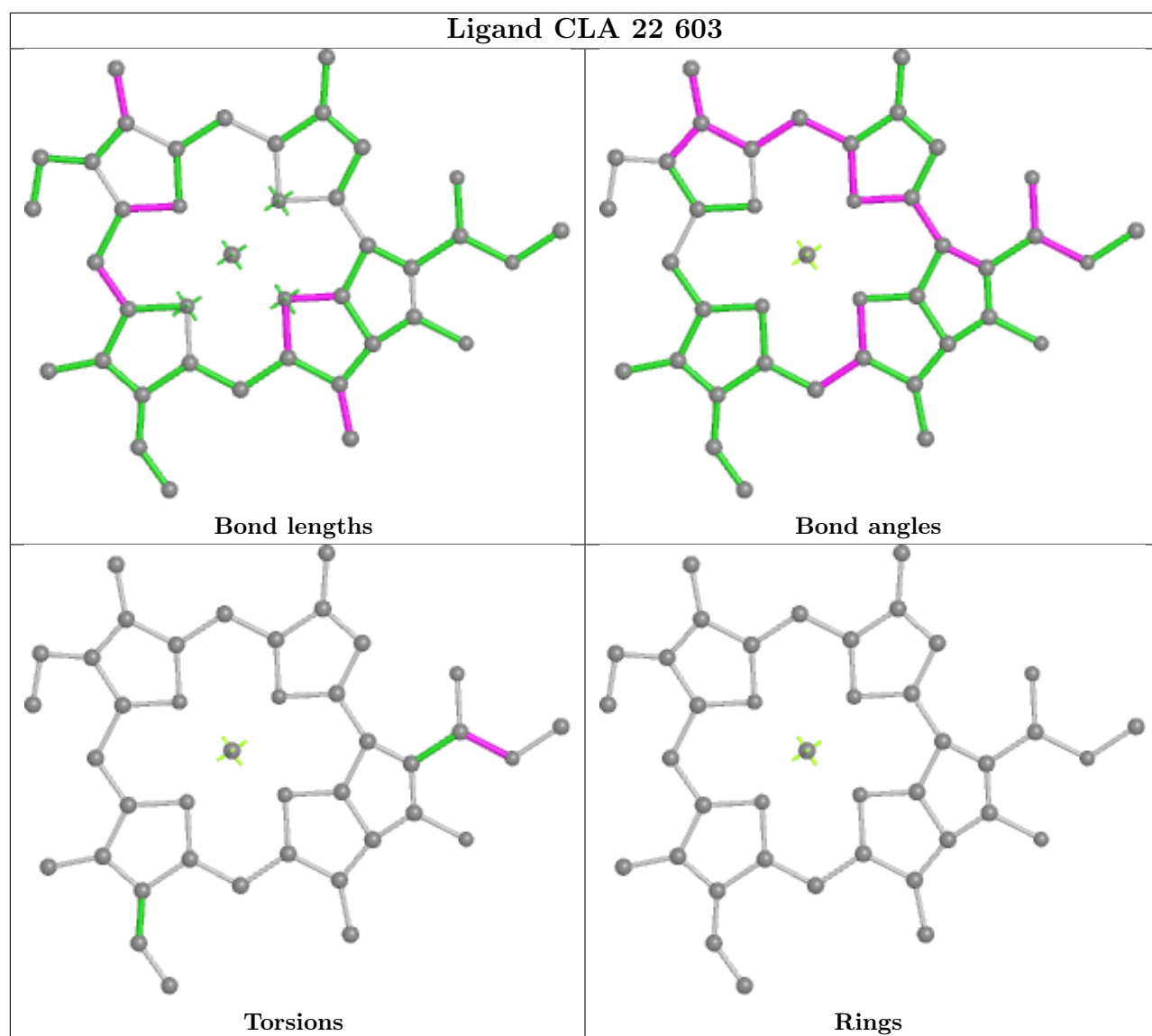
Ligand CLA YY 603

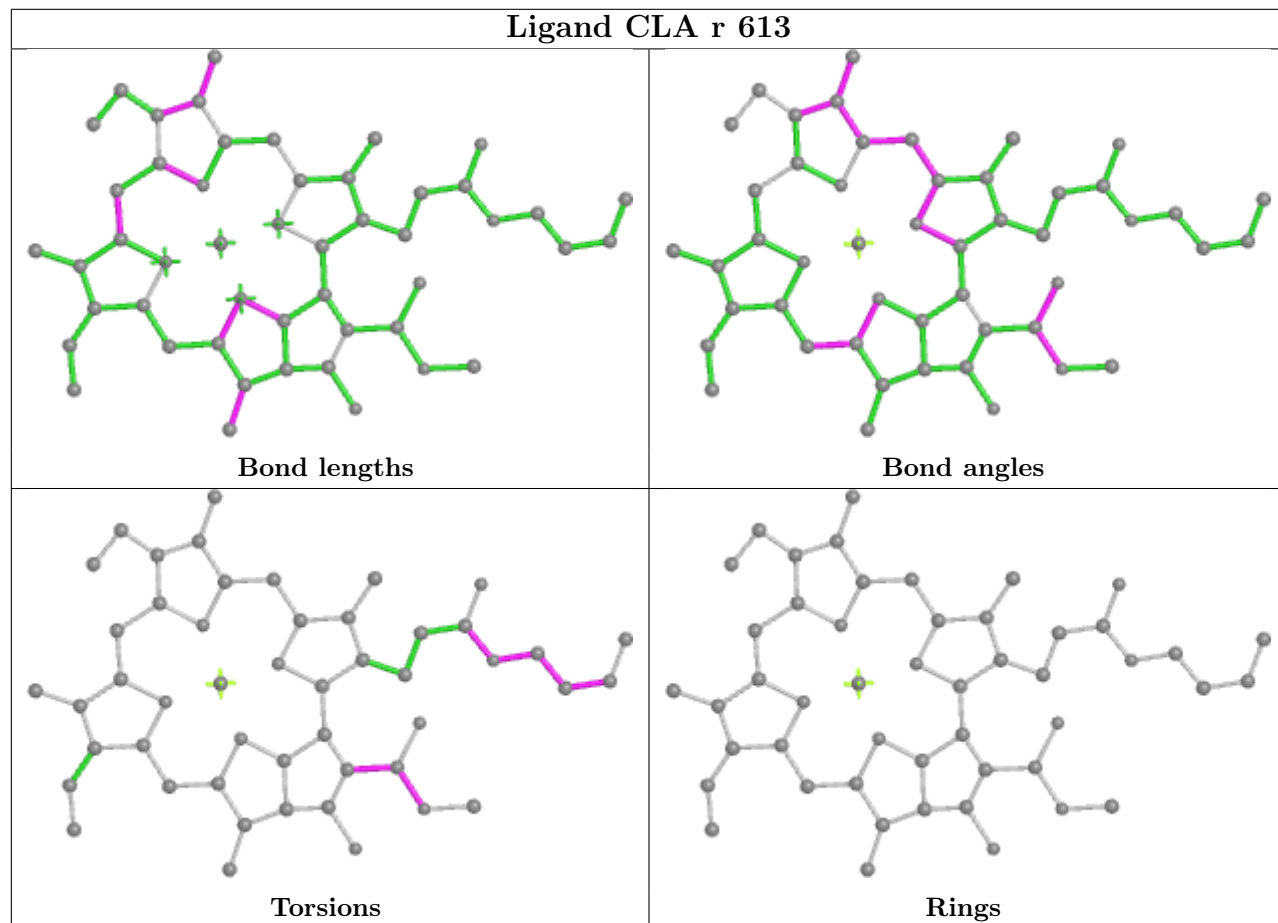
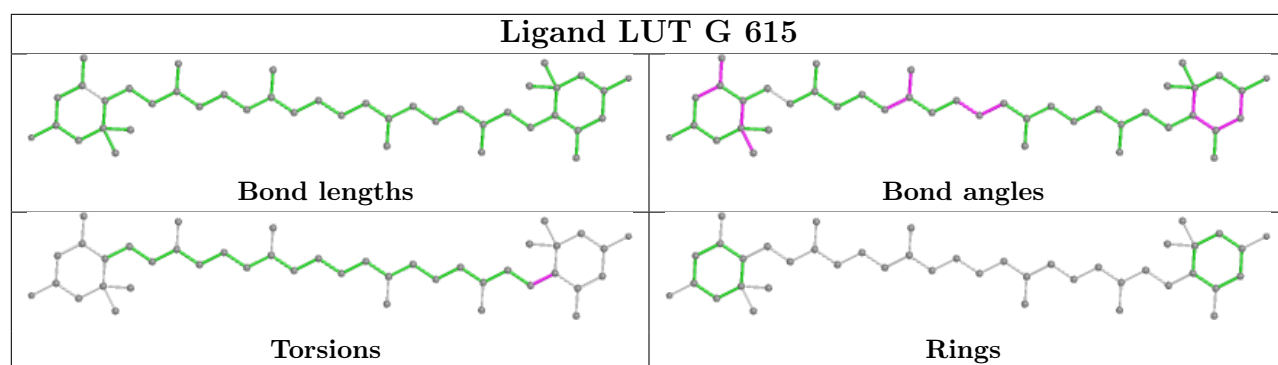


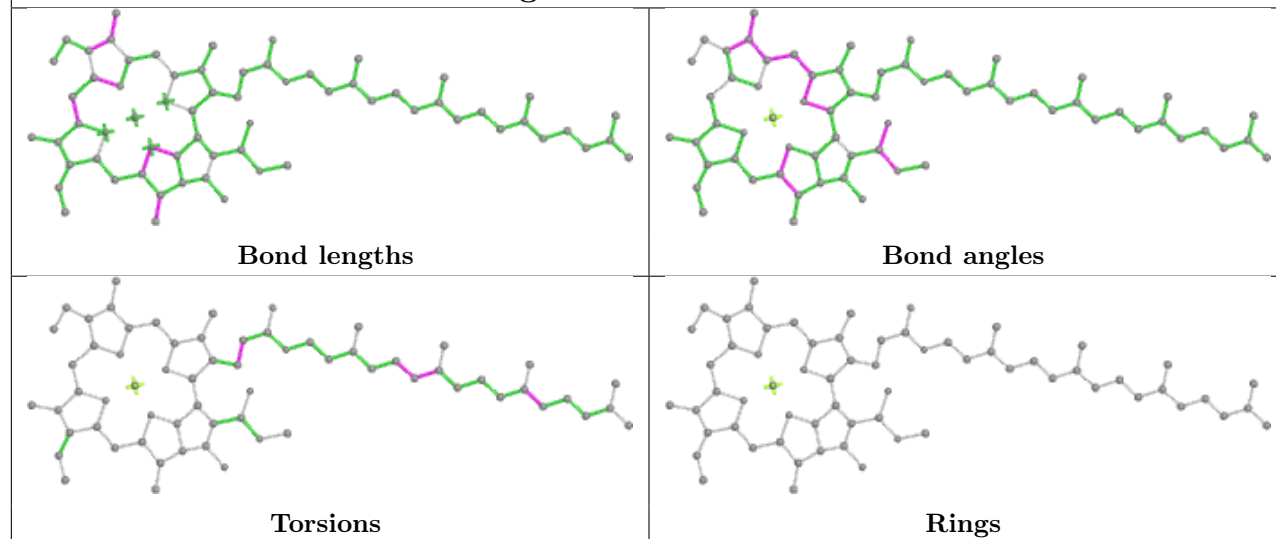
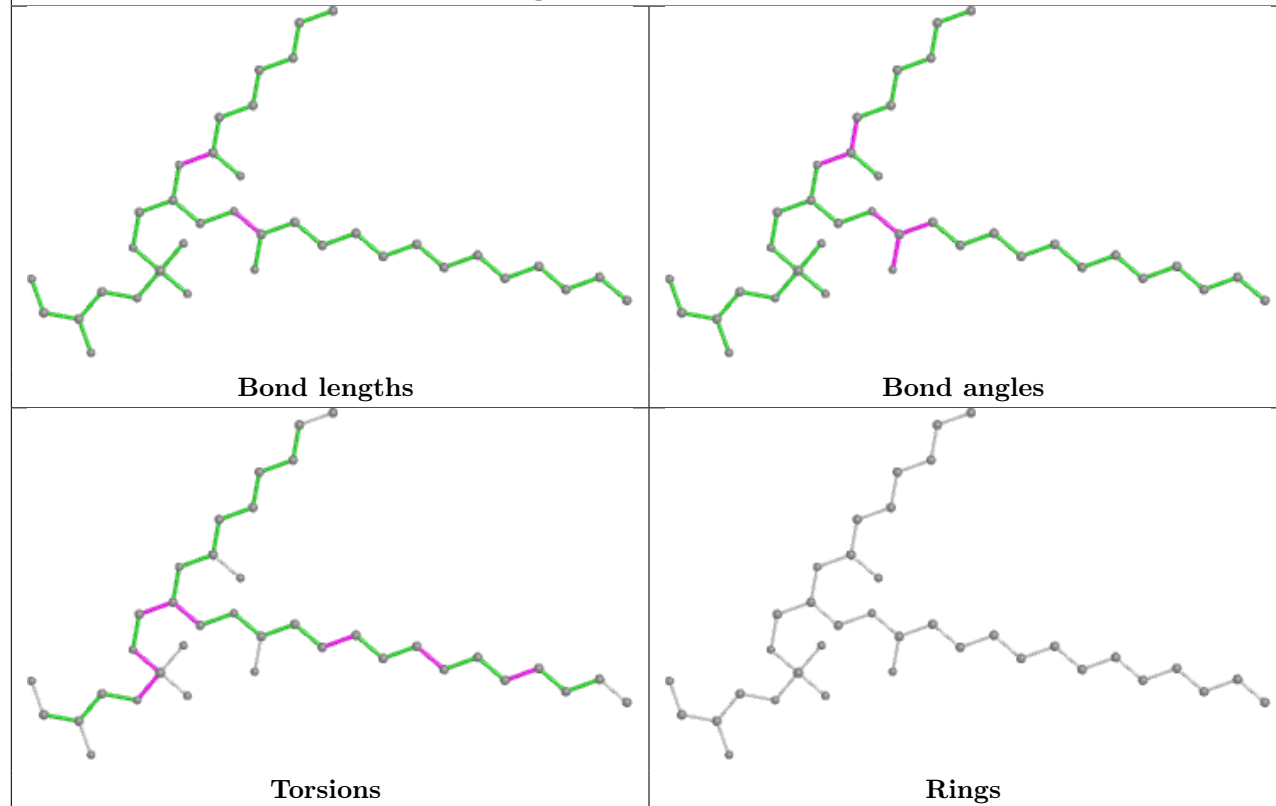


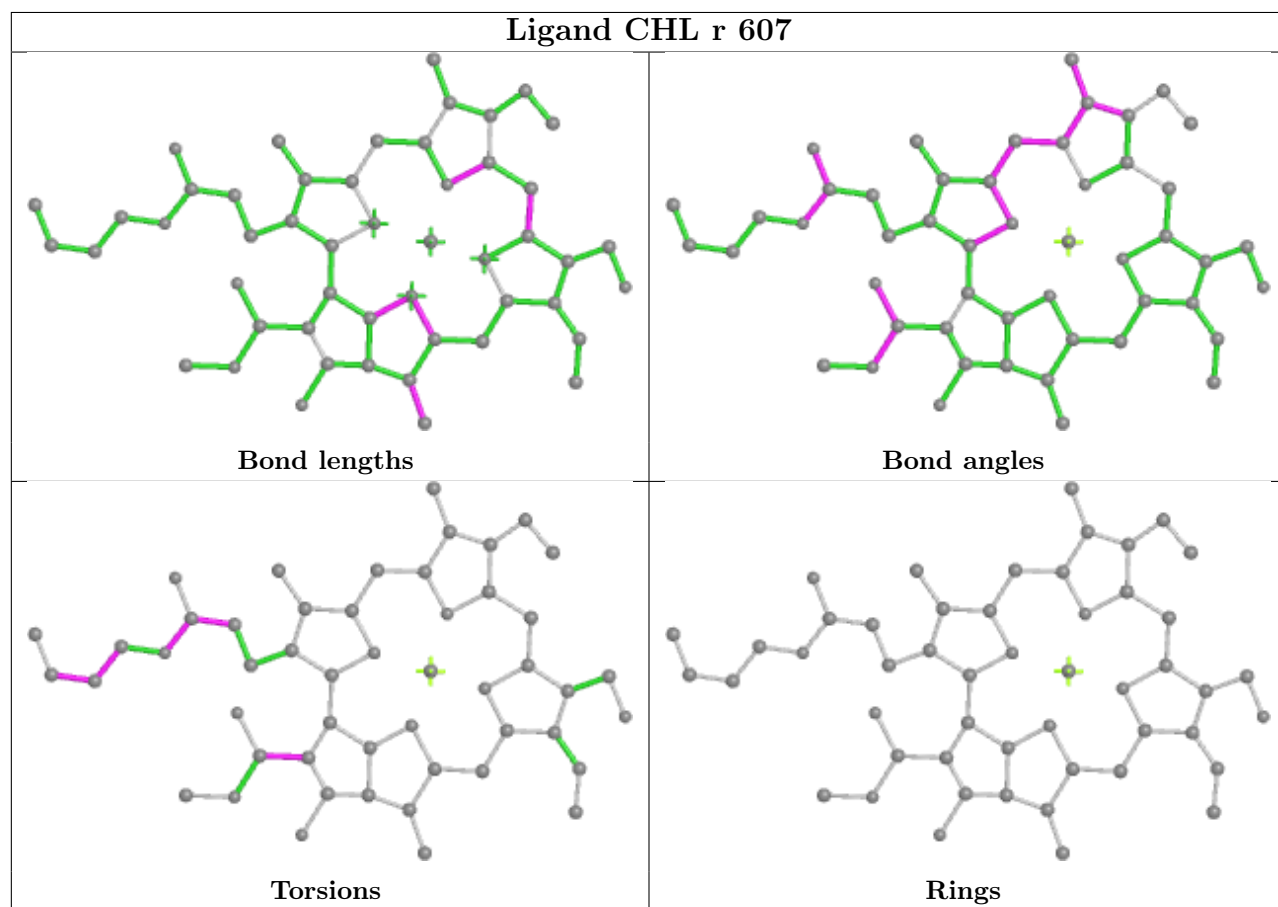
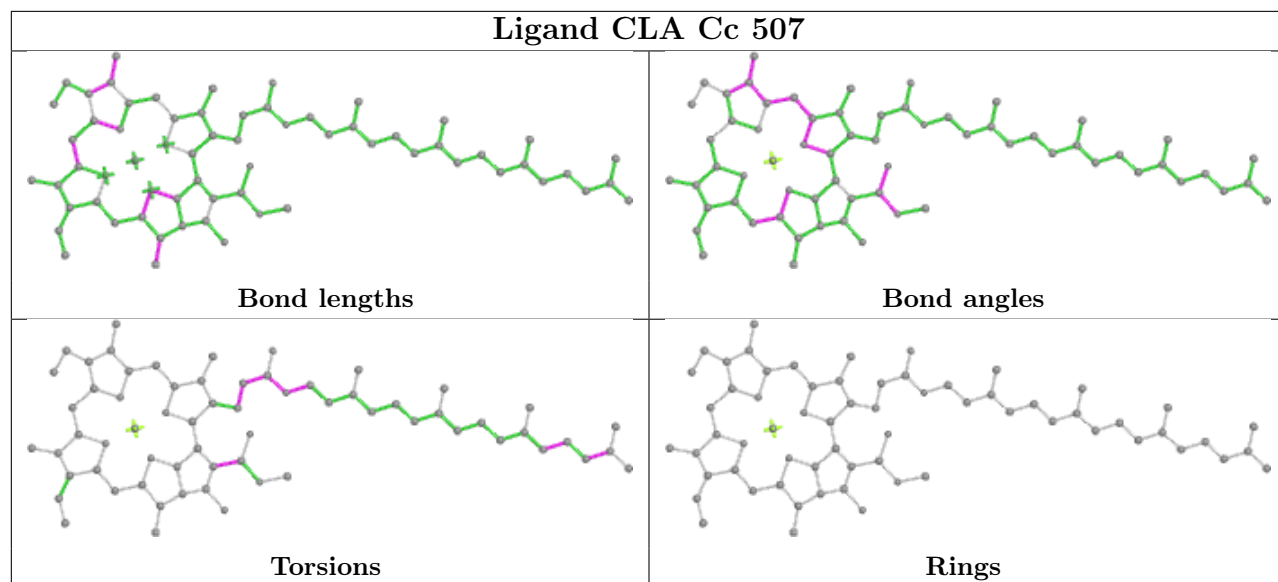




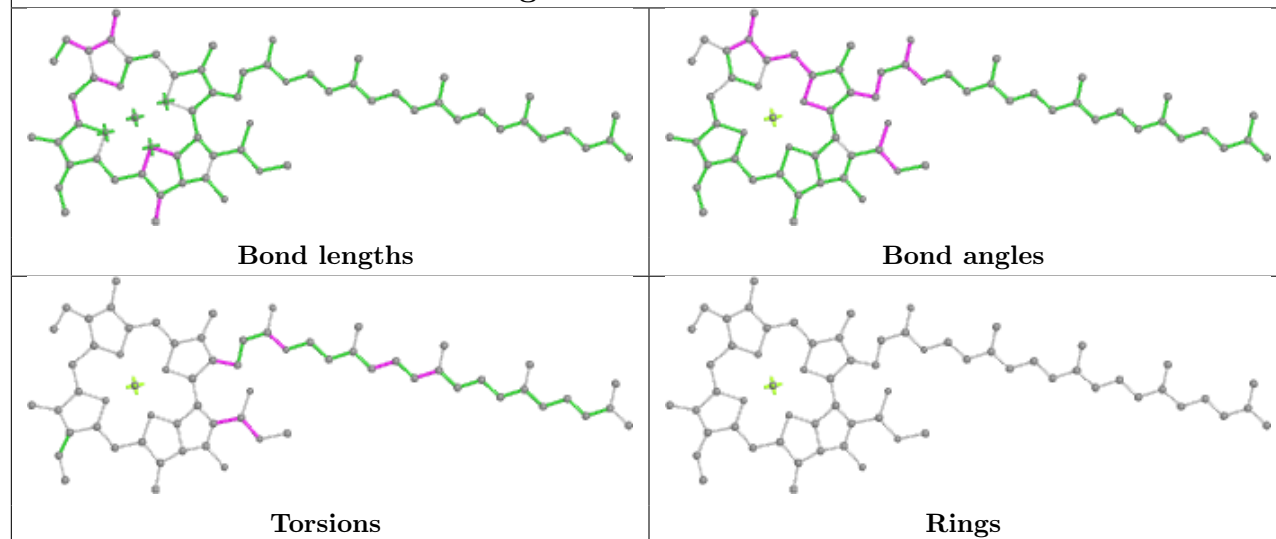




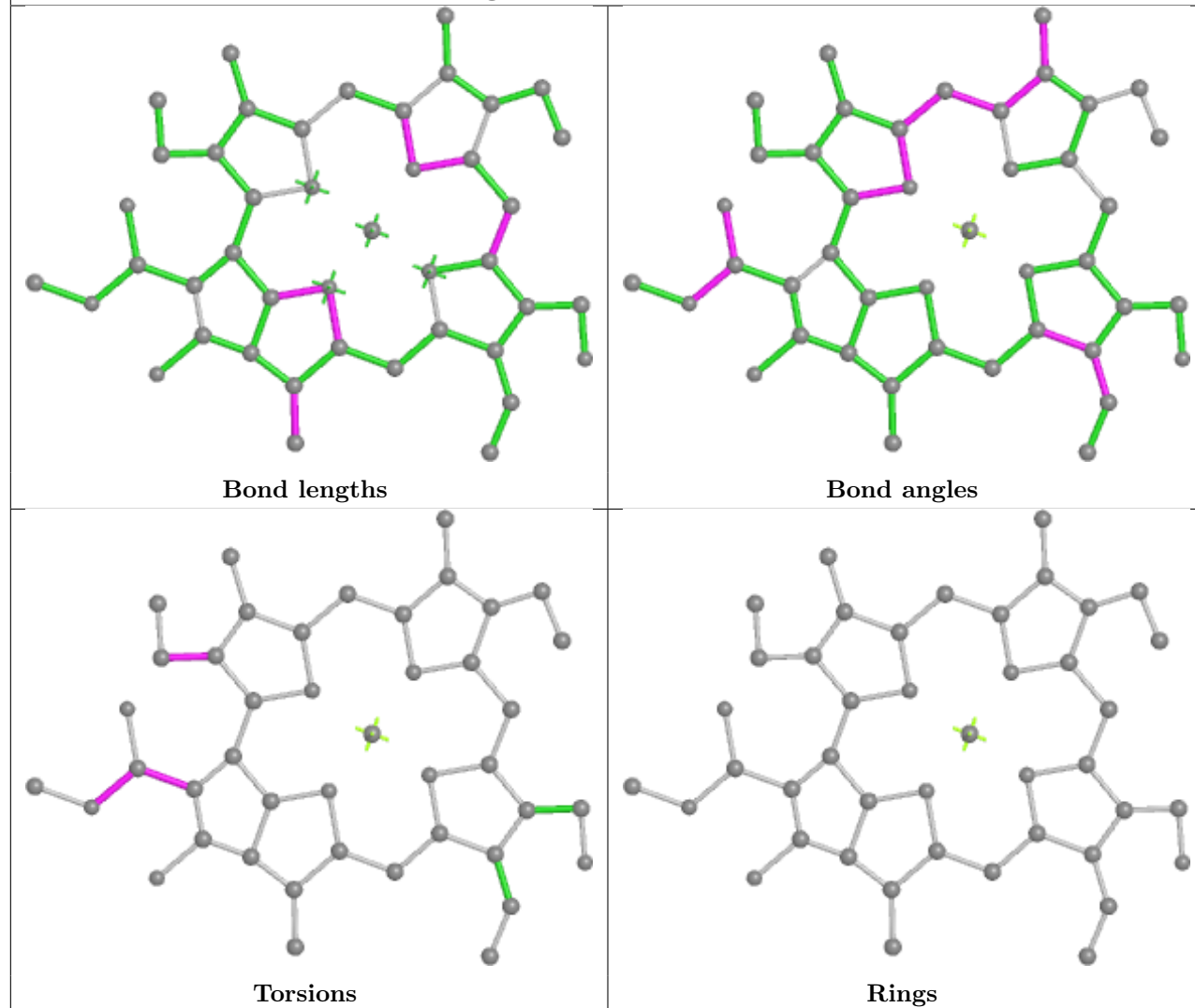
Ligand CLA BB 611**Ligand LHG A 413**



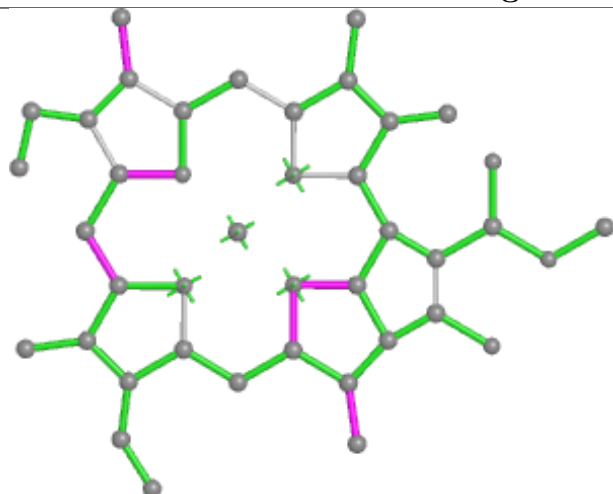
Ligand CLA CC 507



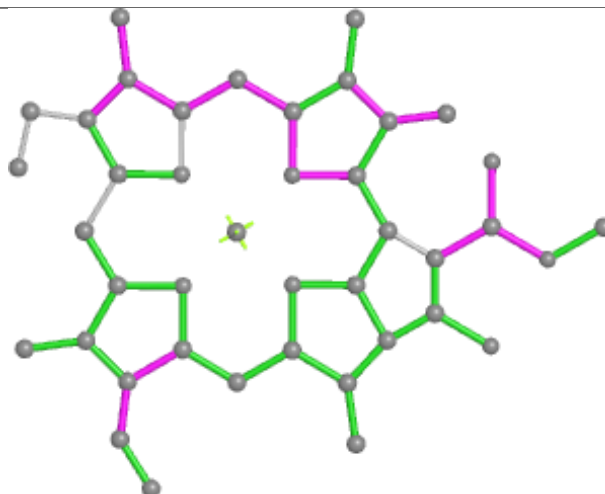
Ligand CHL GG 606



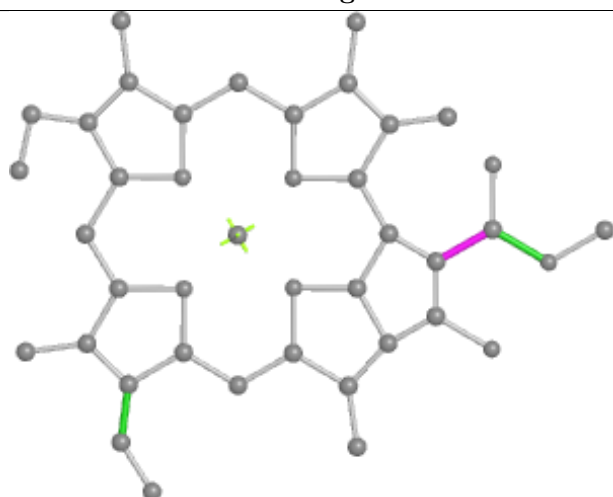
Ligand CLA BB 615



Bond lengths



Bond angles

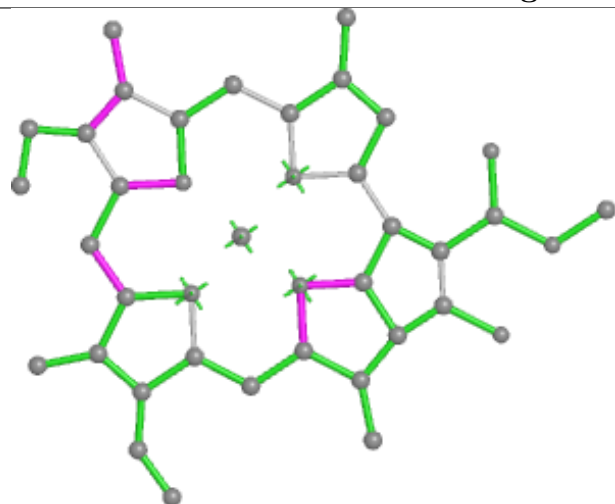


Torsions

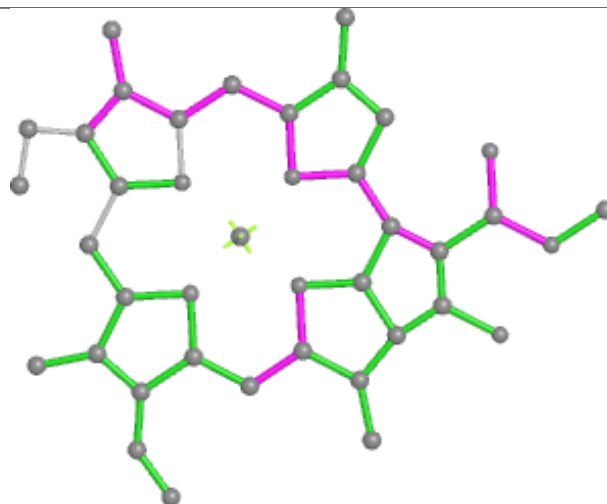


Rings

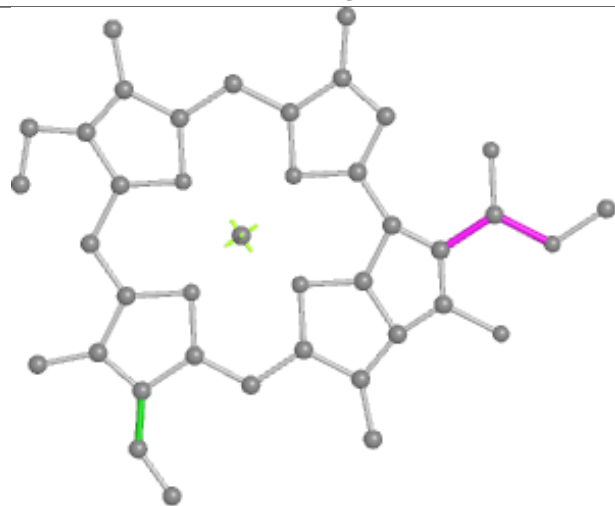
Ligand CLA 2 602



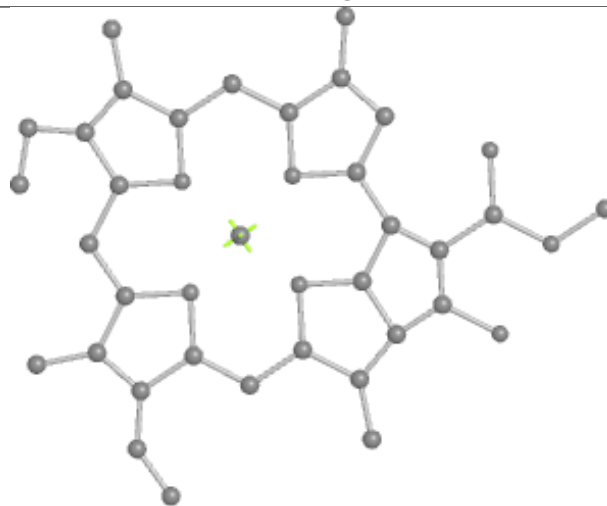
Bond lengths



Bond angles

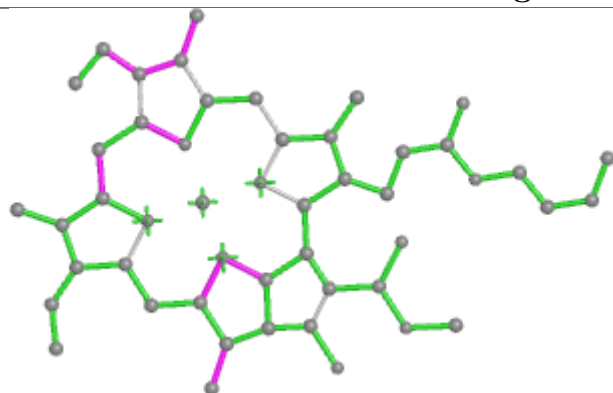


Torsions

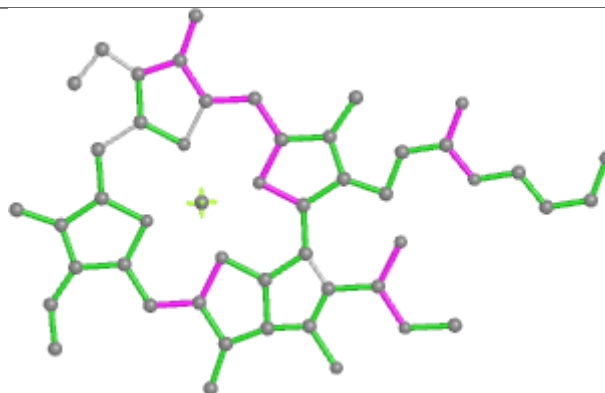


Rings

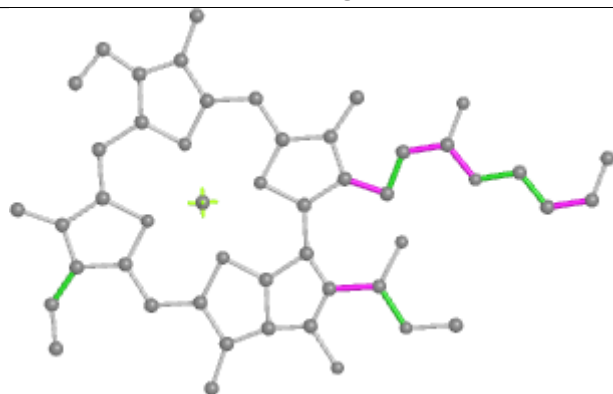
Ligand CLA A 406



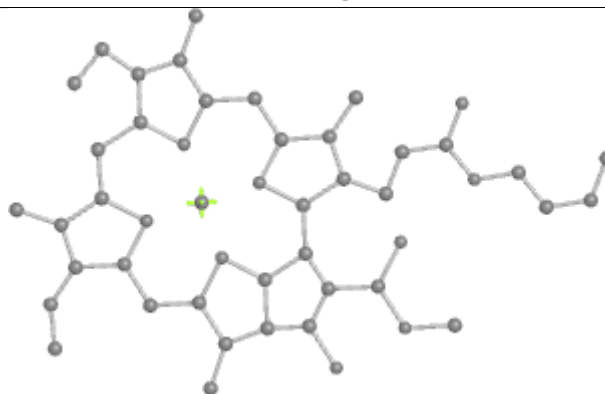
Bond lengths



Bond angles

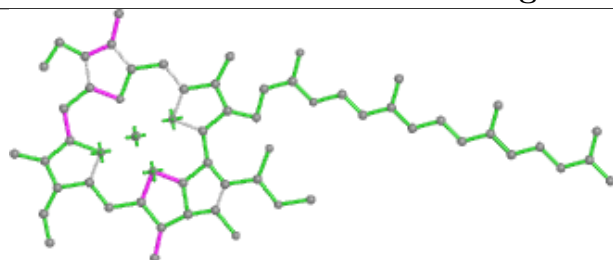


Torsions

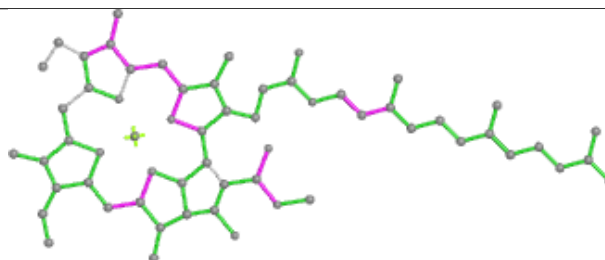


Rings

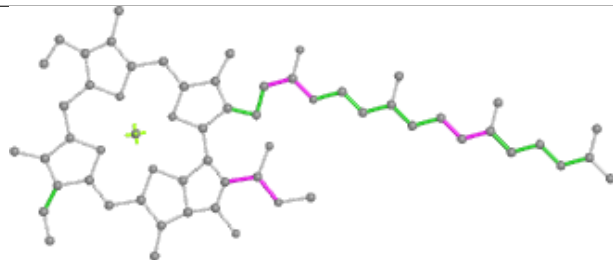
Ligand CLA c 508



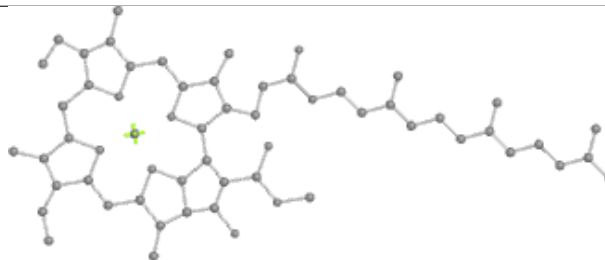
Bond lengths



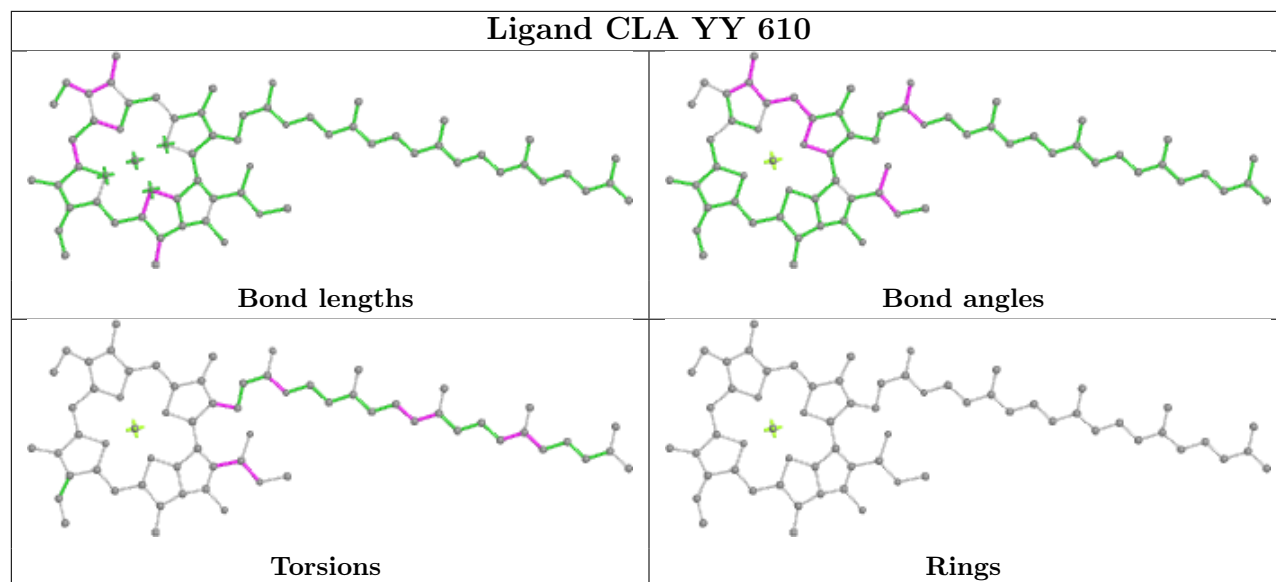
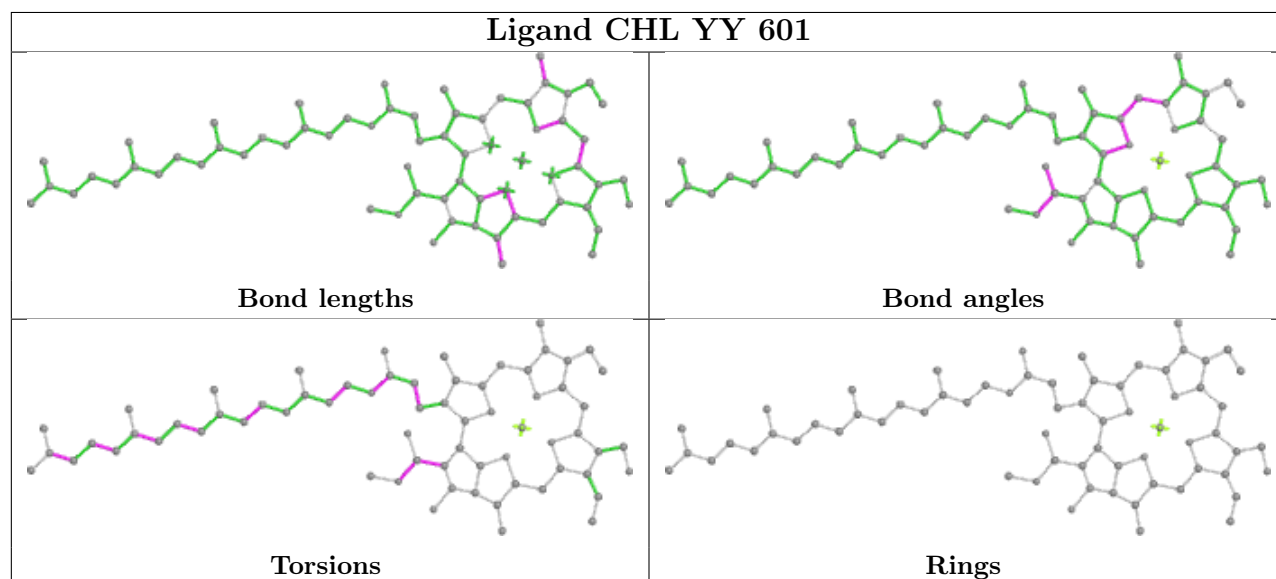
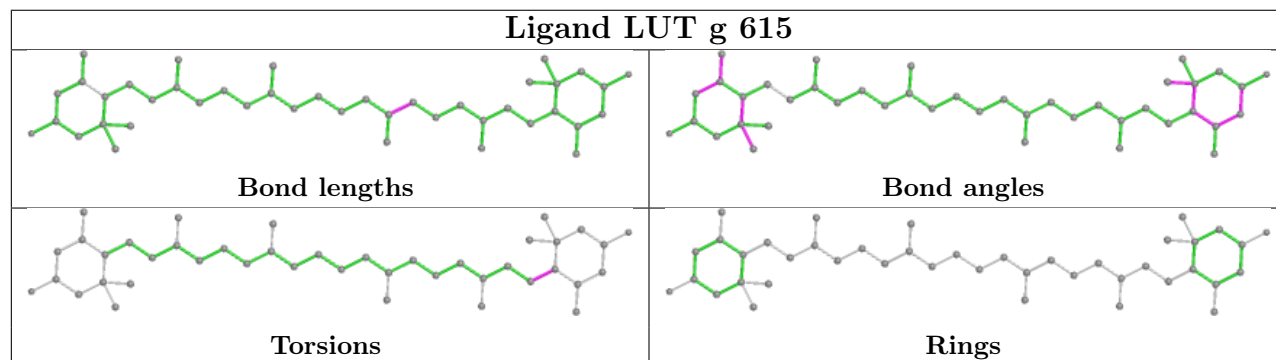
Bond angles

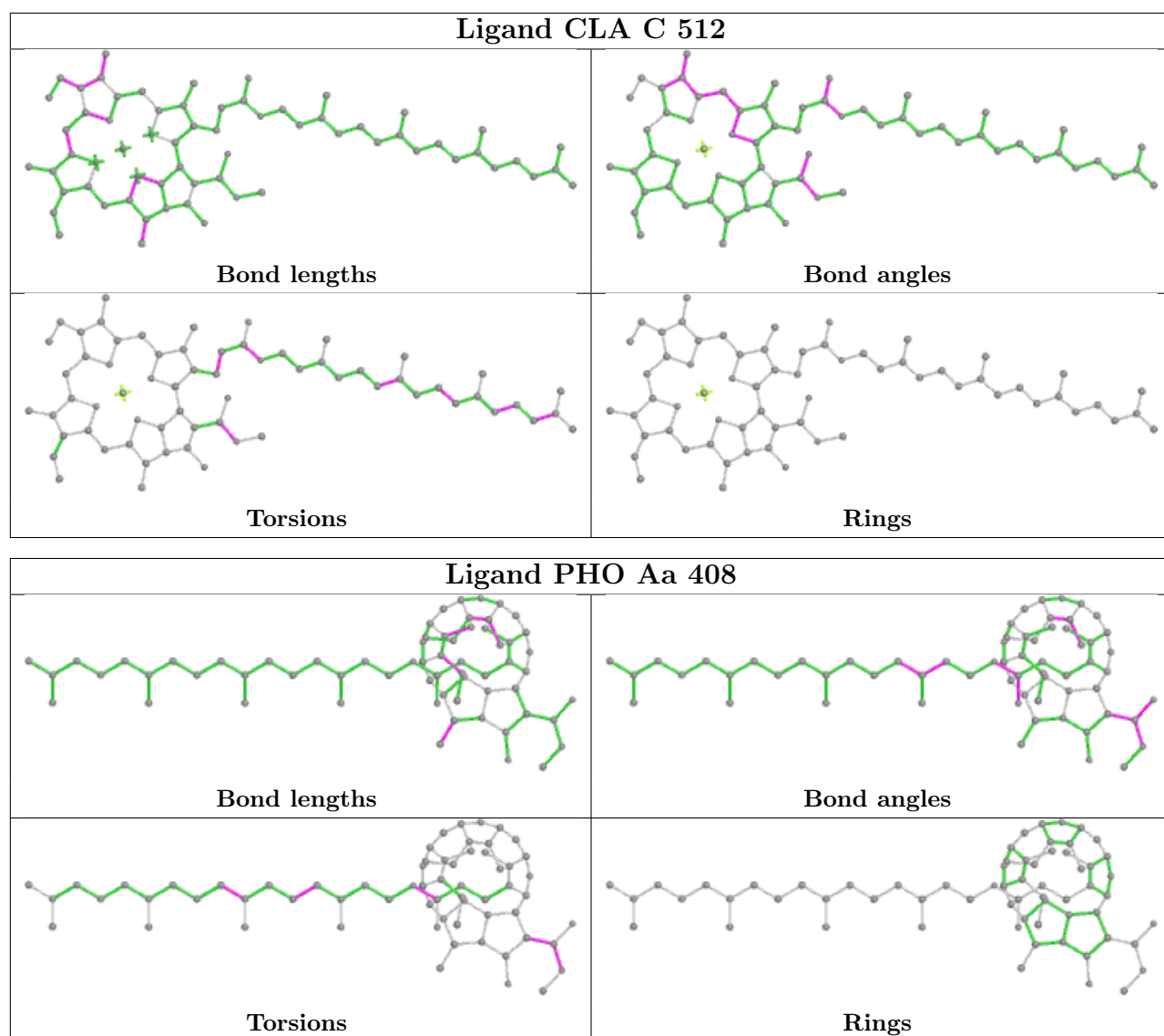


Torsions

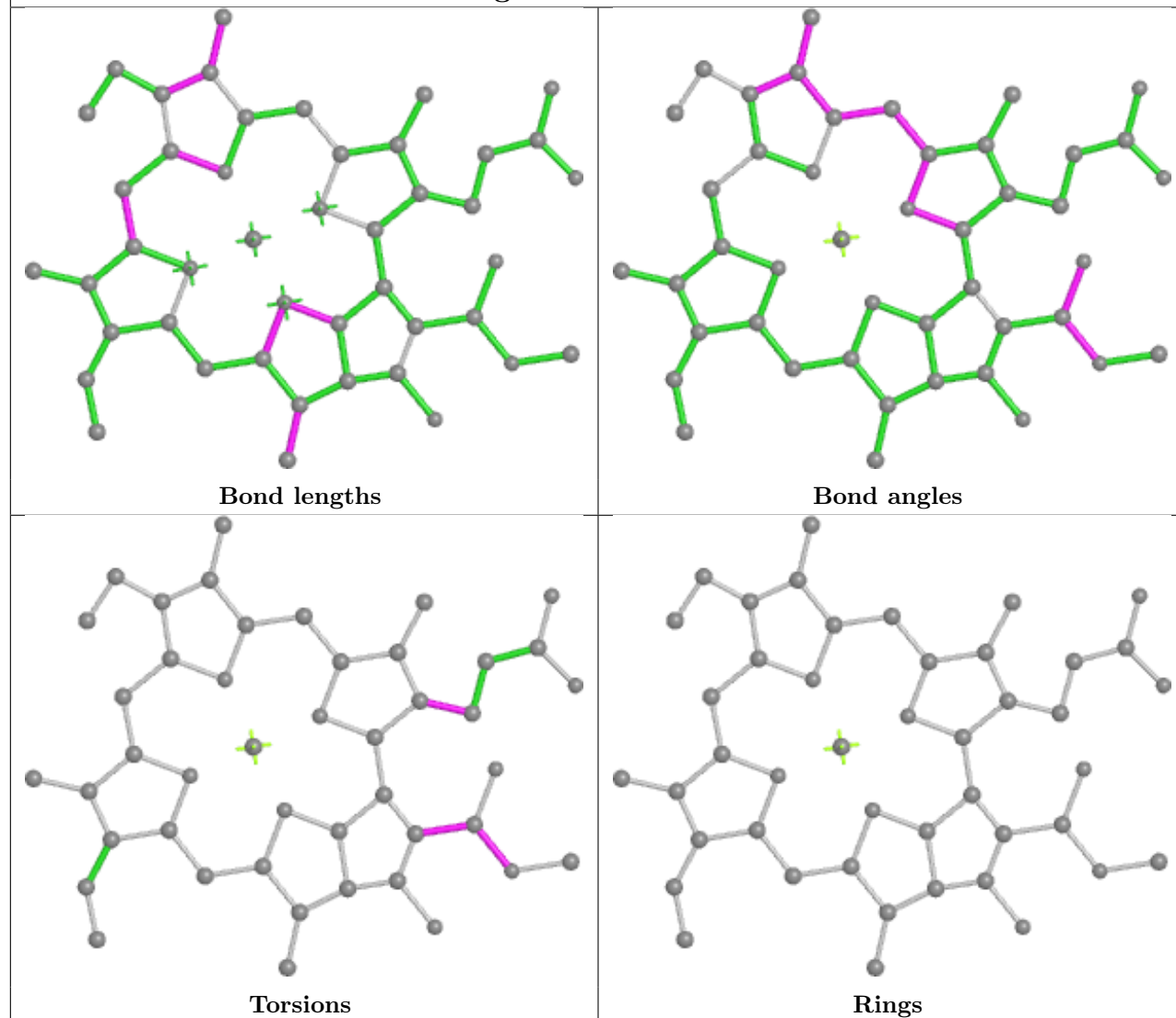


Rings

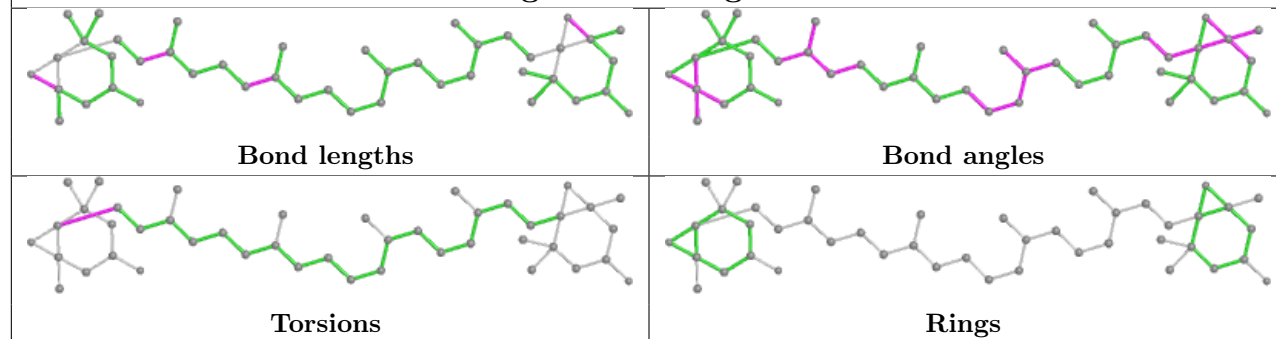
Ligand CLA YY 610**Ligand CHL YY 601****Ligand LUT g 615**



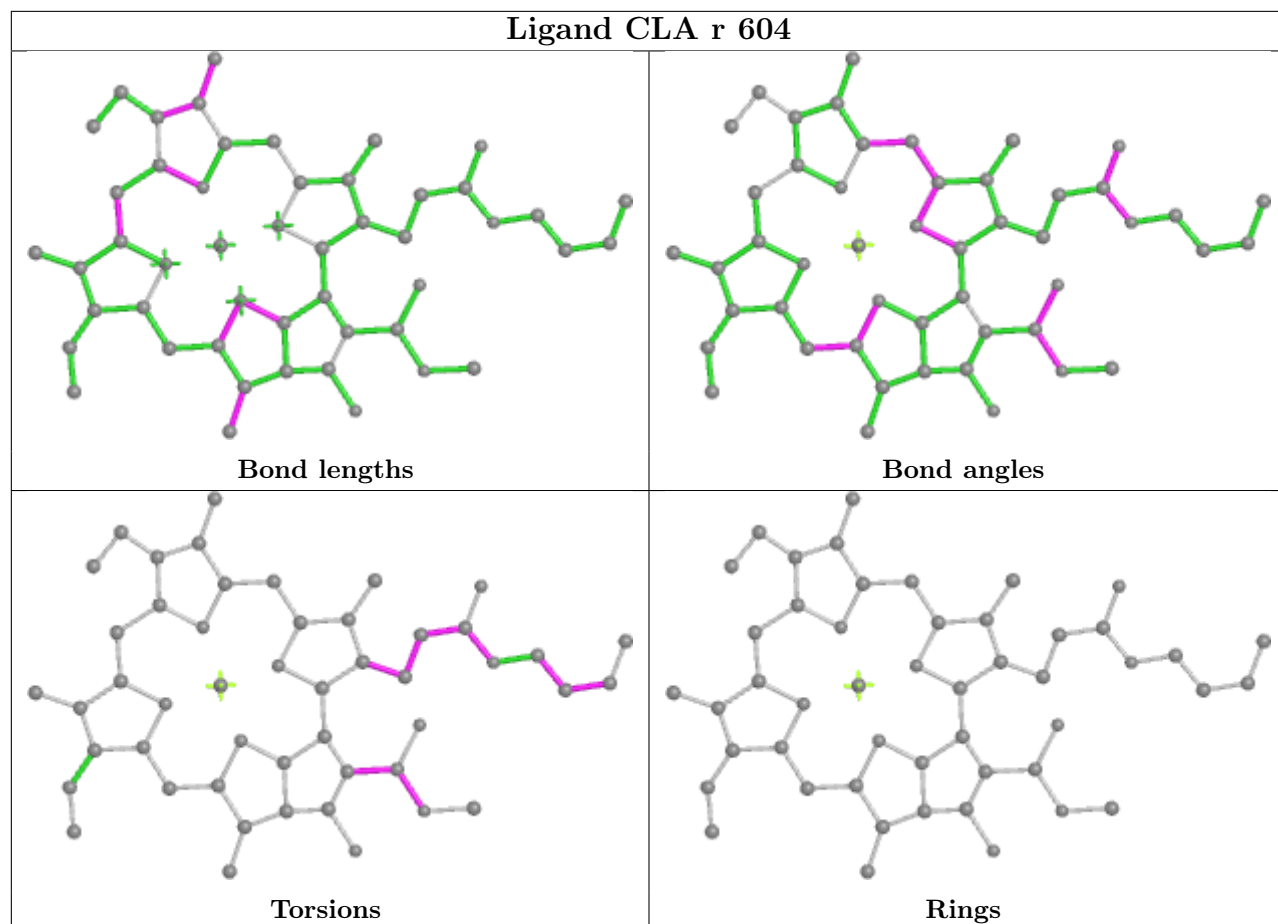
Ligand CLA 4 310



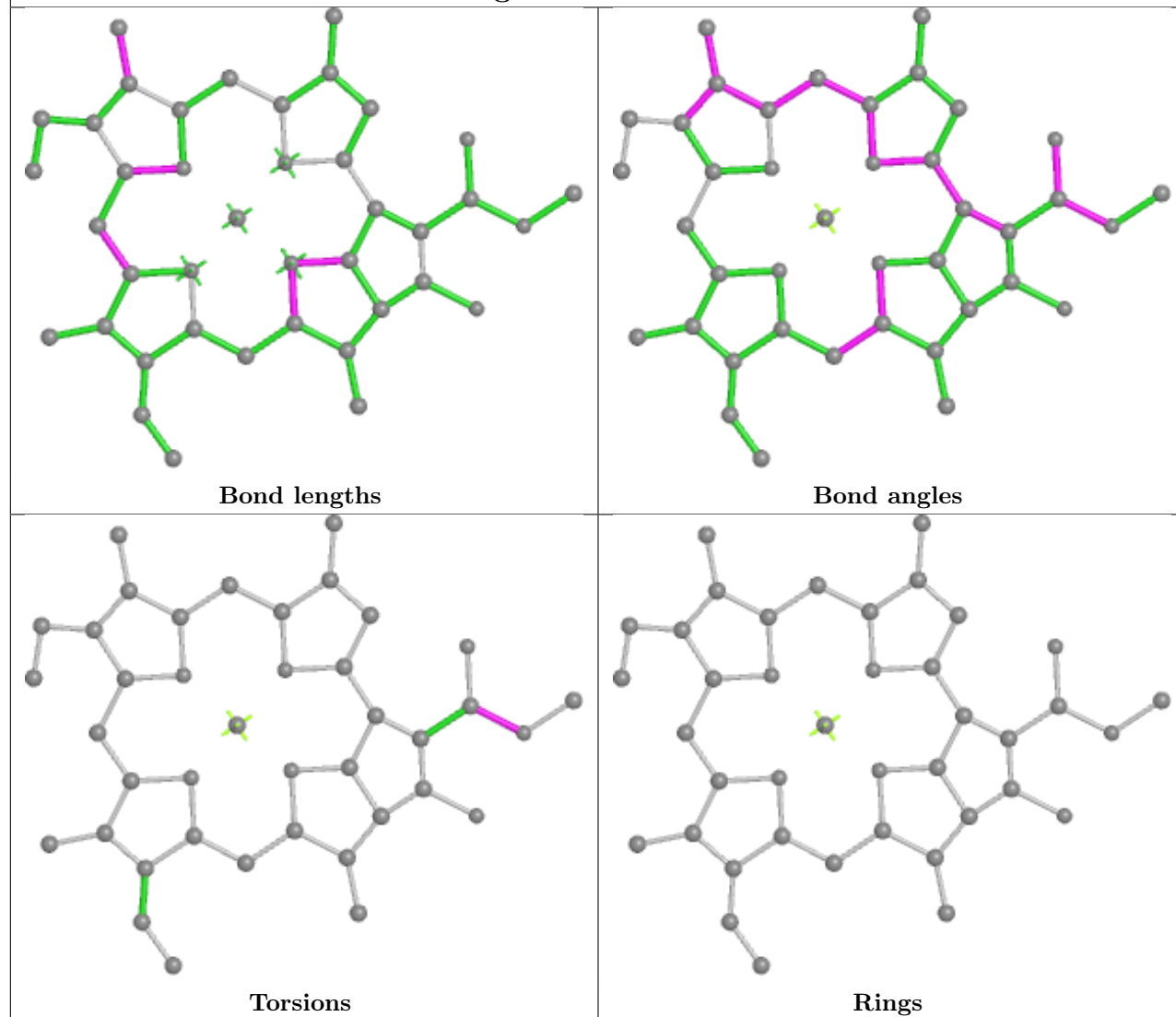
Ligand XAT Gg 301



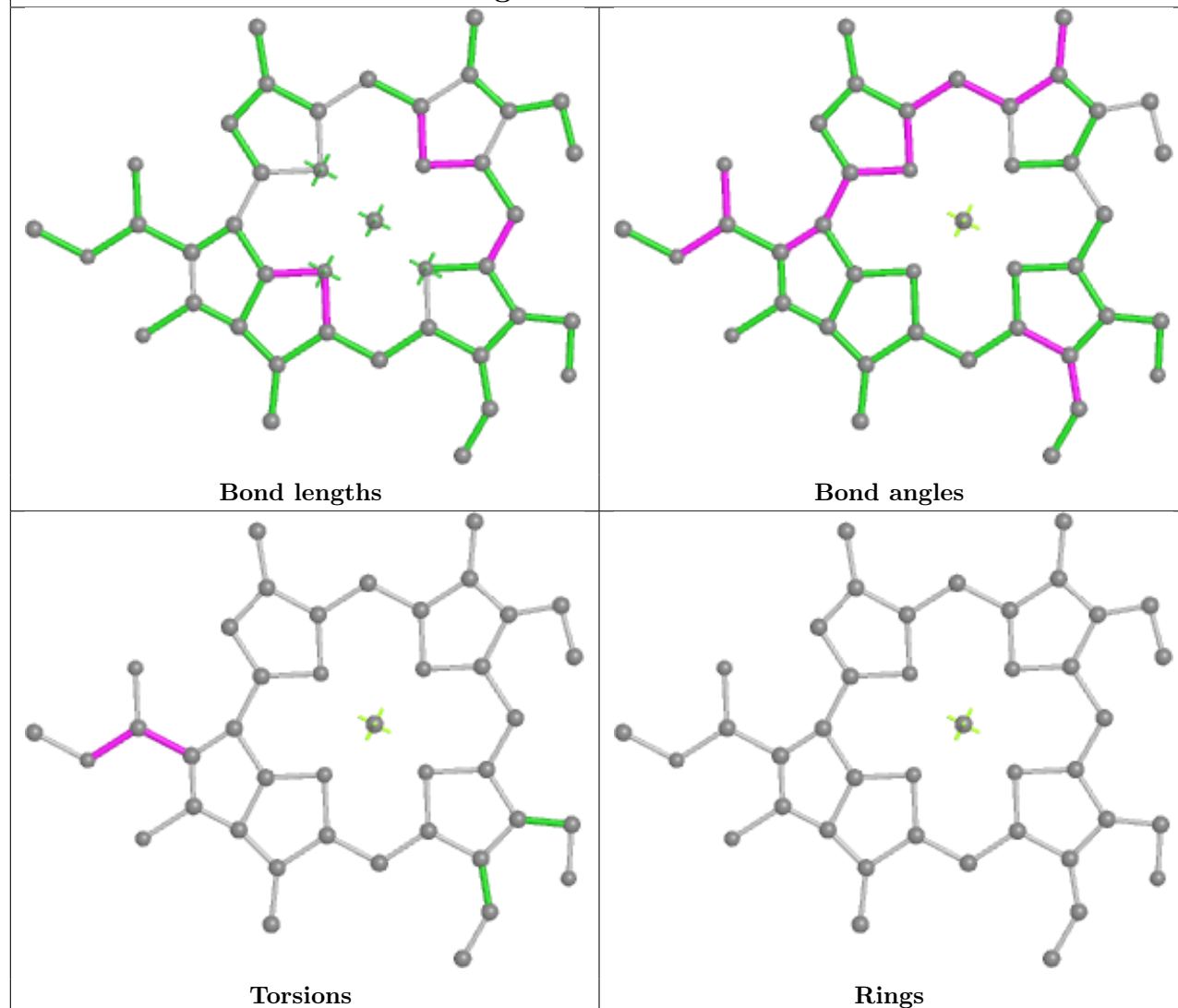
Ligand CLA r 604



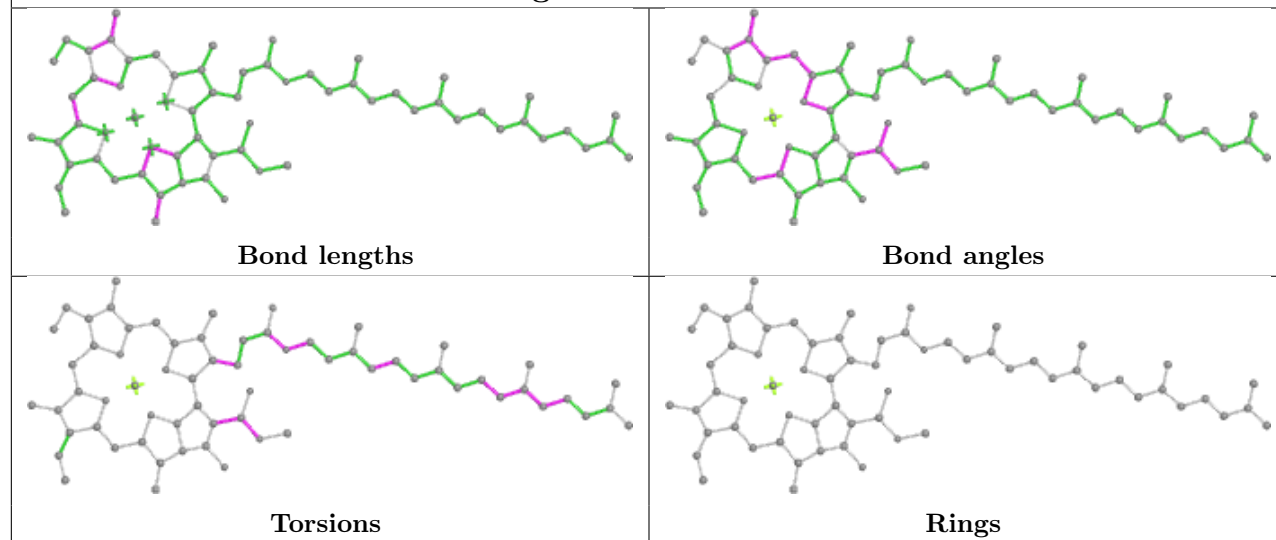
Ligand CLA 1 613



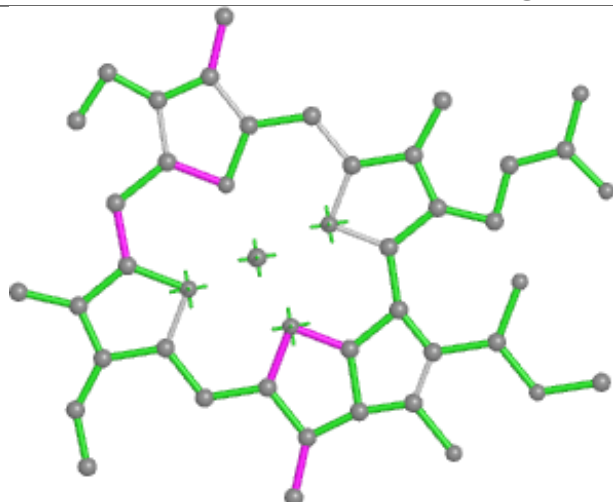
Ligand CHL 3 605



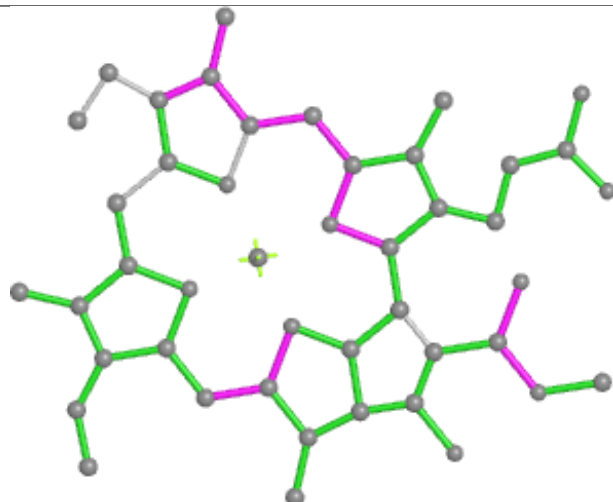
Ligand CLA C 510



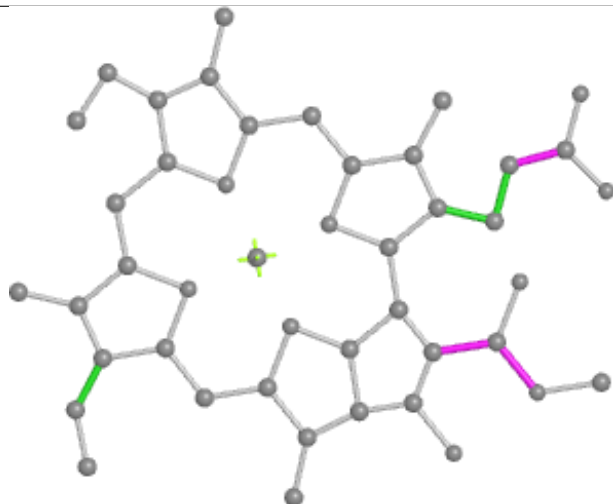
Ligand CLA 4 311



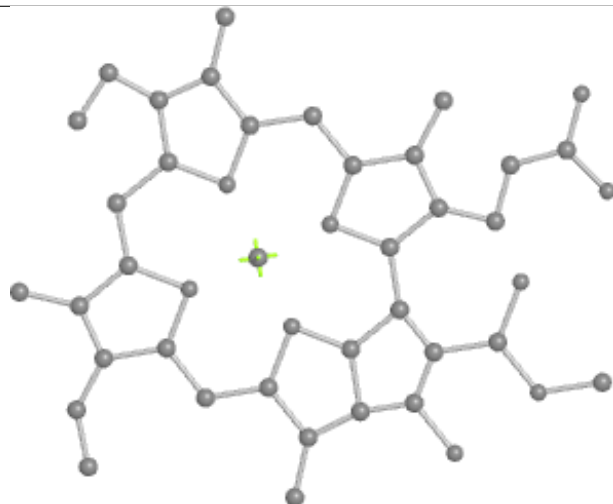
Bond lengths



Bond angles

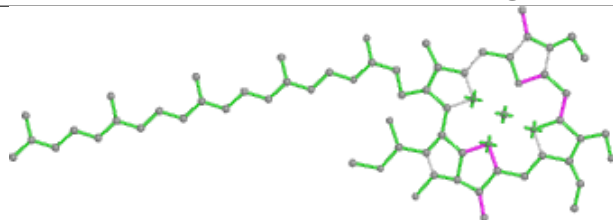


Torsions

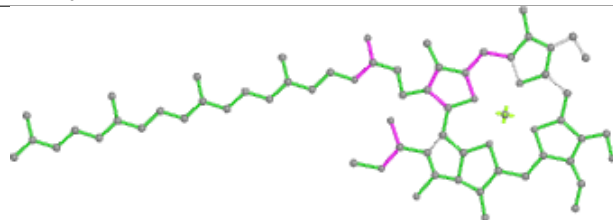


Rings

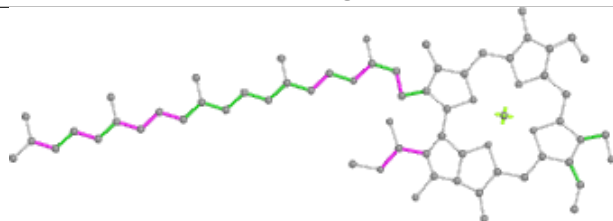
Ligand CHL Yy 601



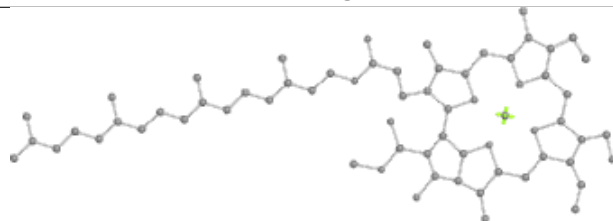
Bond lengths



Bond angles

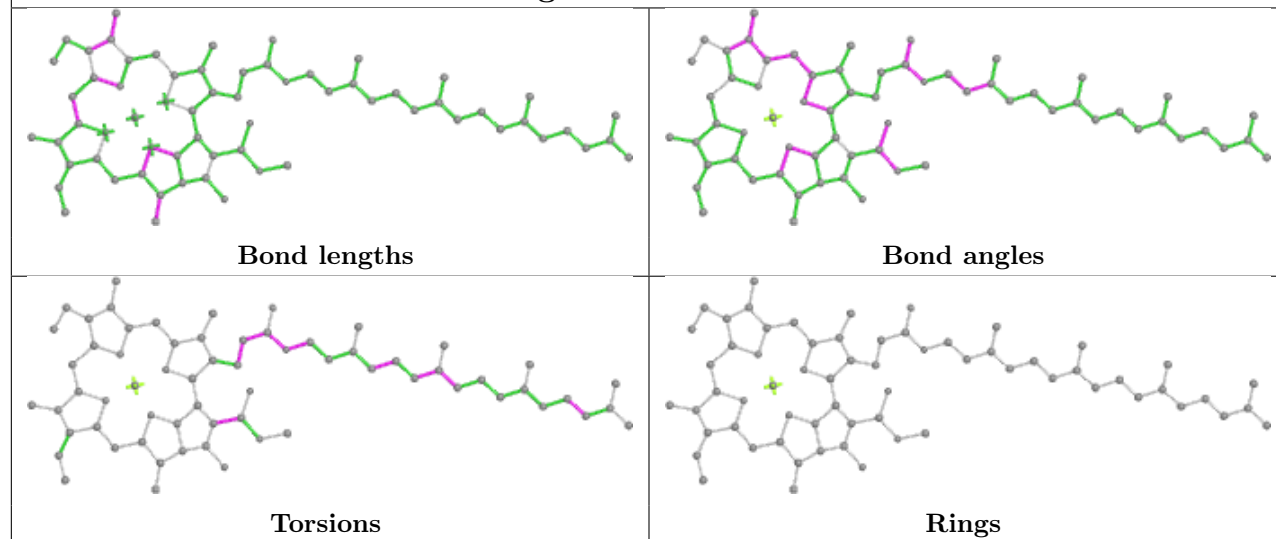


Torsions

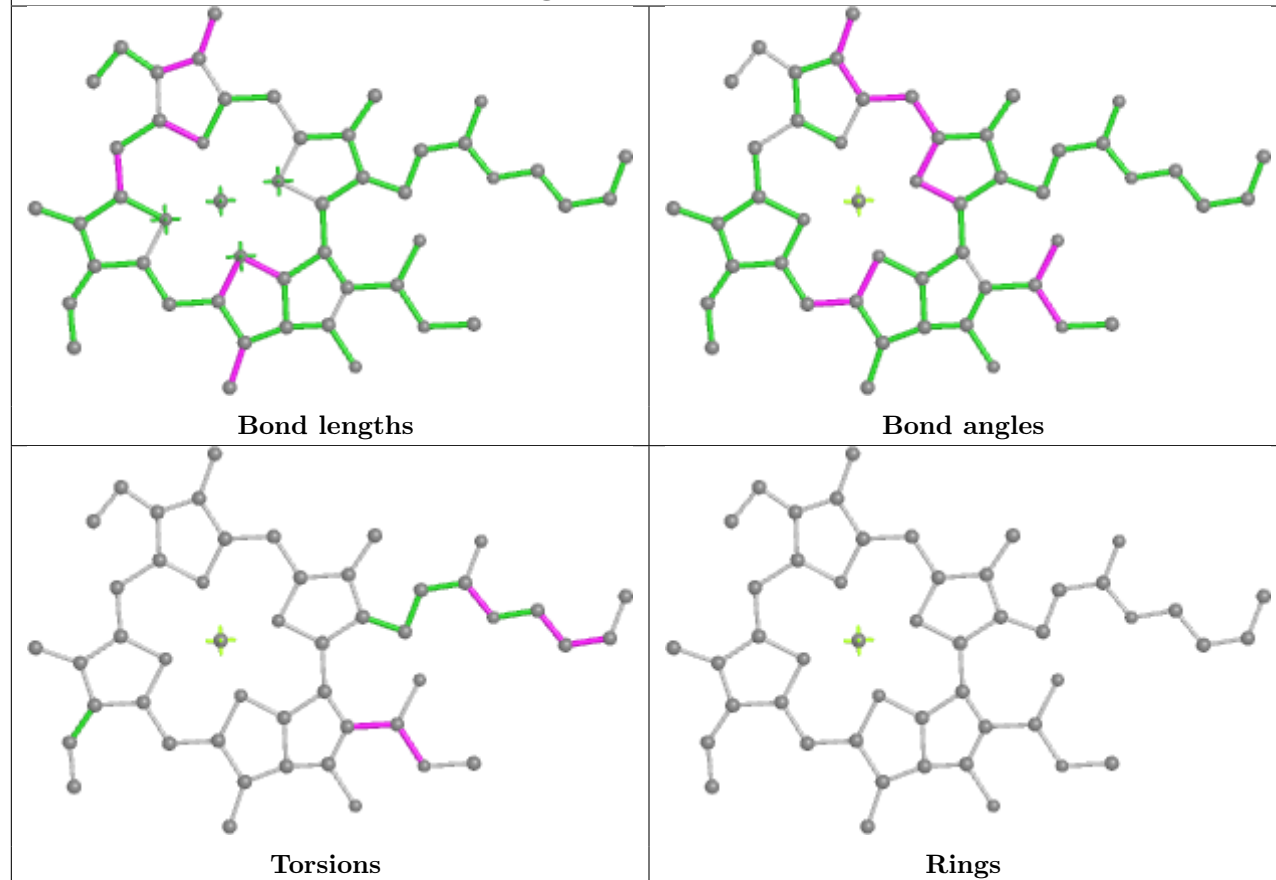


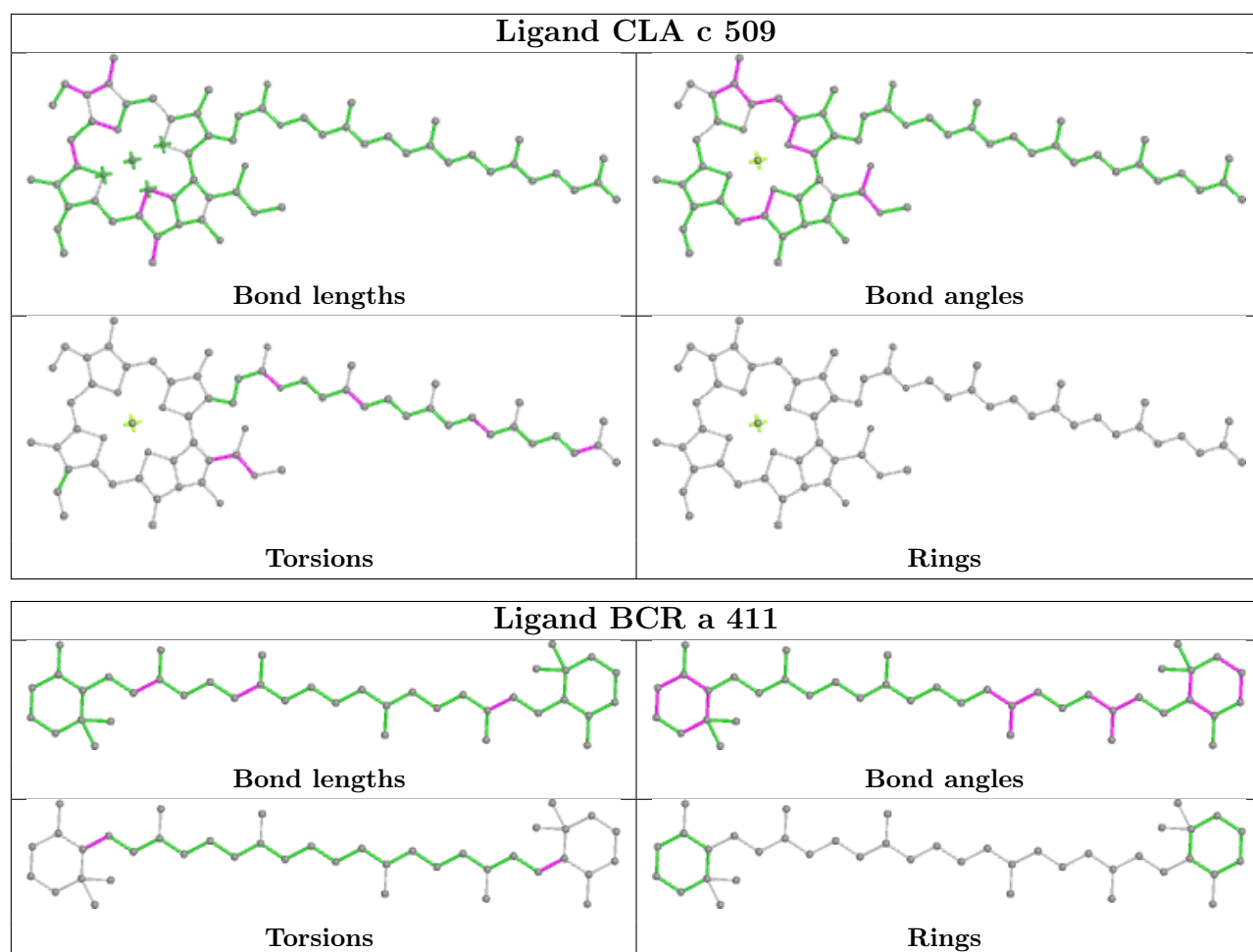
Rings

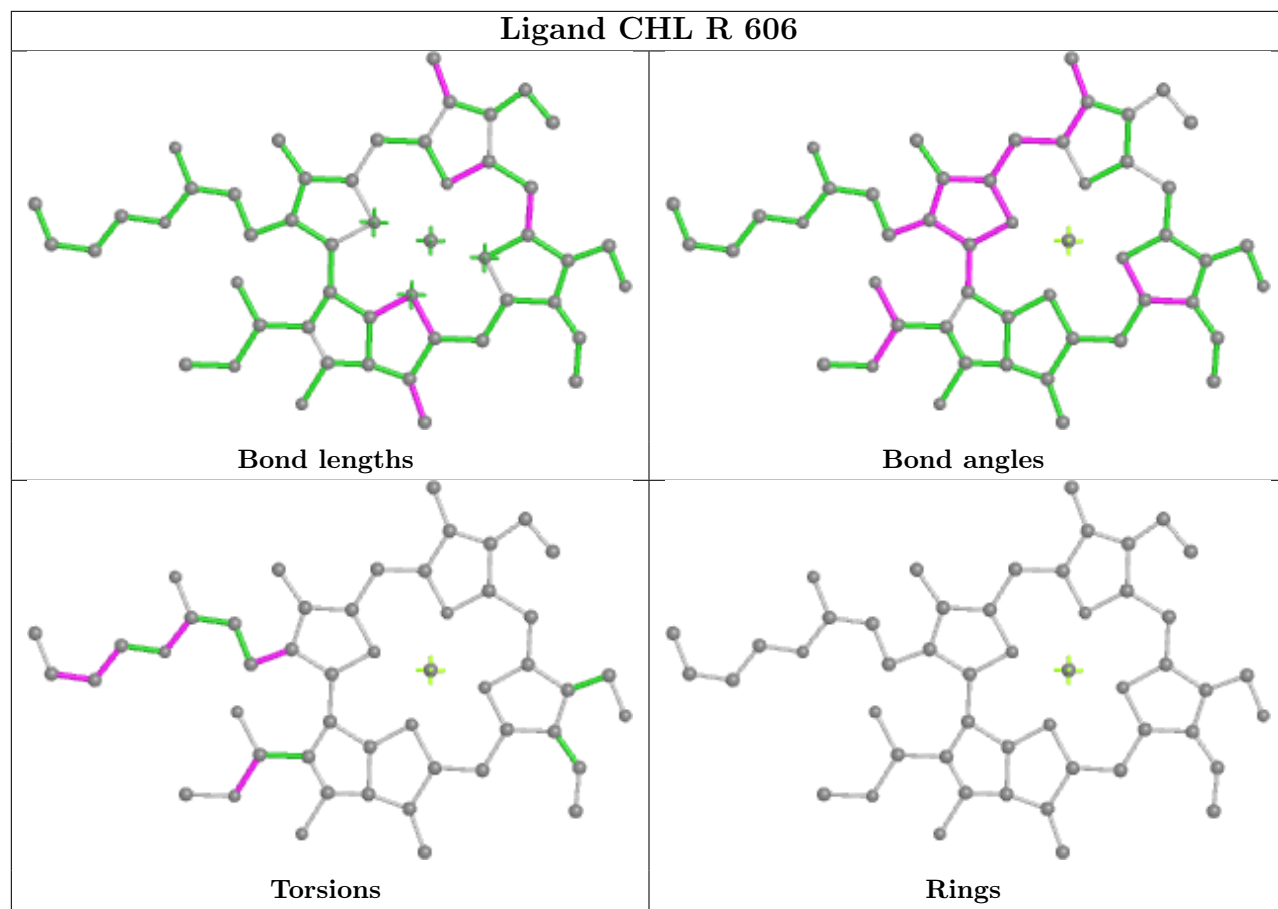
Ligand CLA r 602

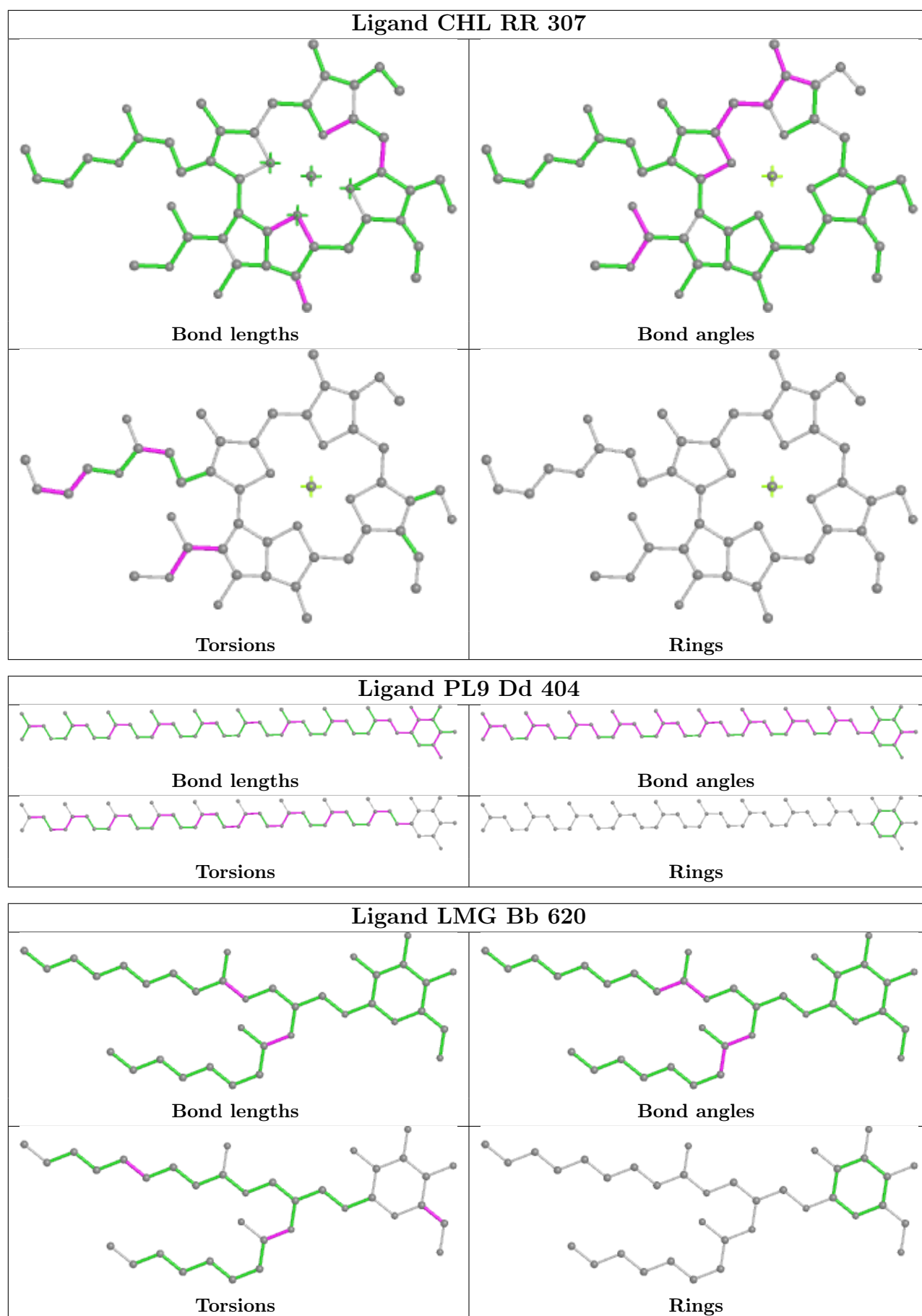


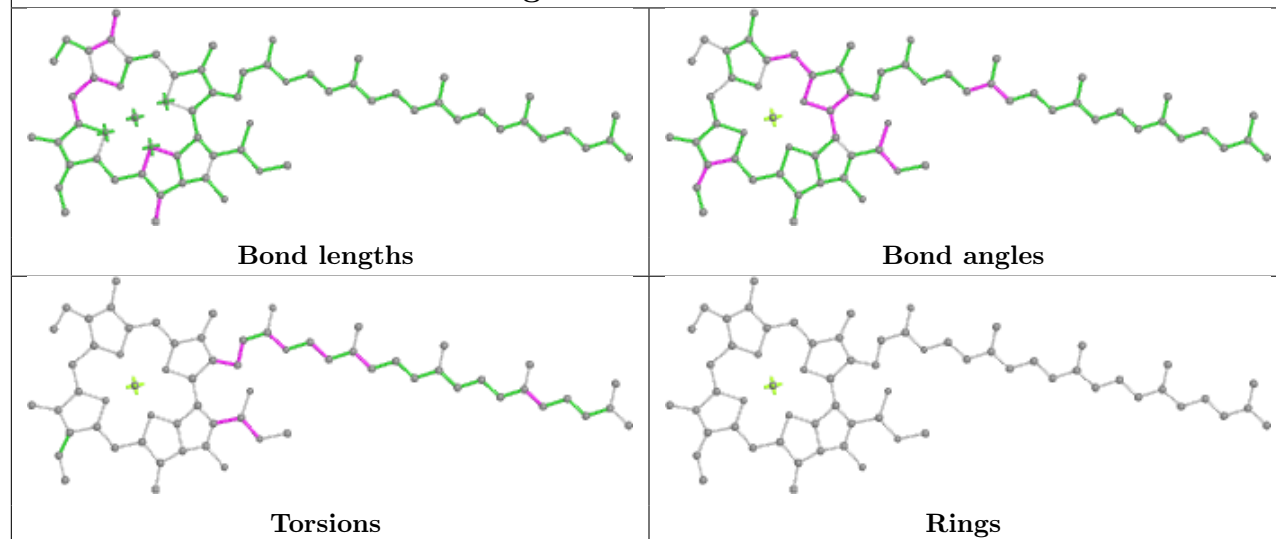
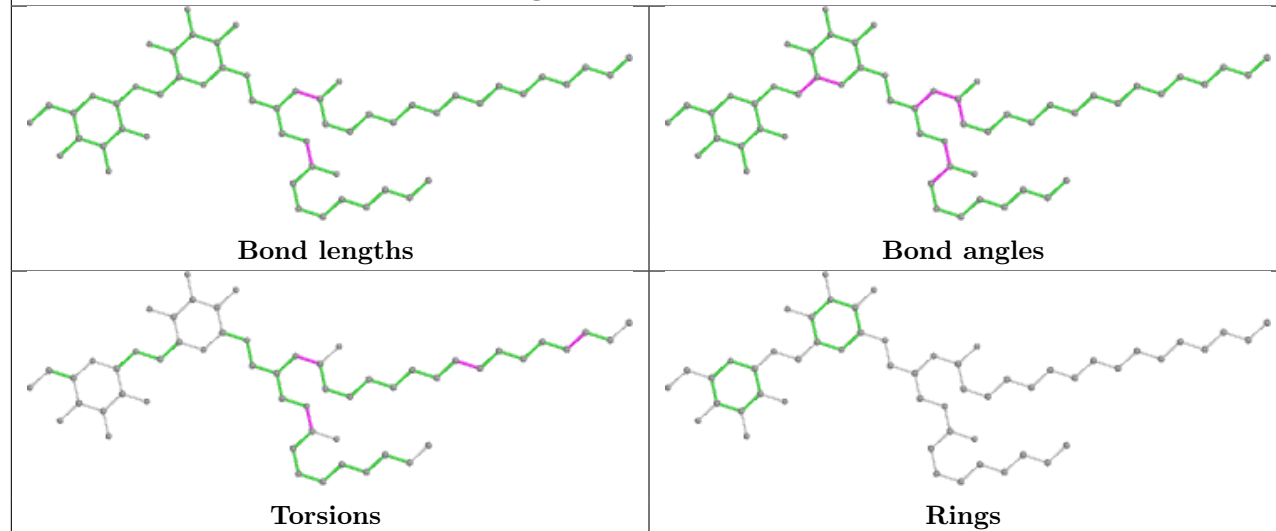
Ligand CLA s 604



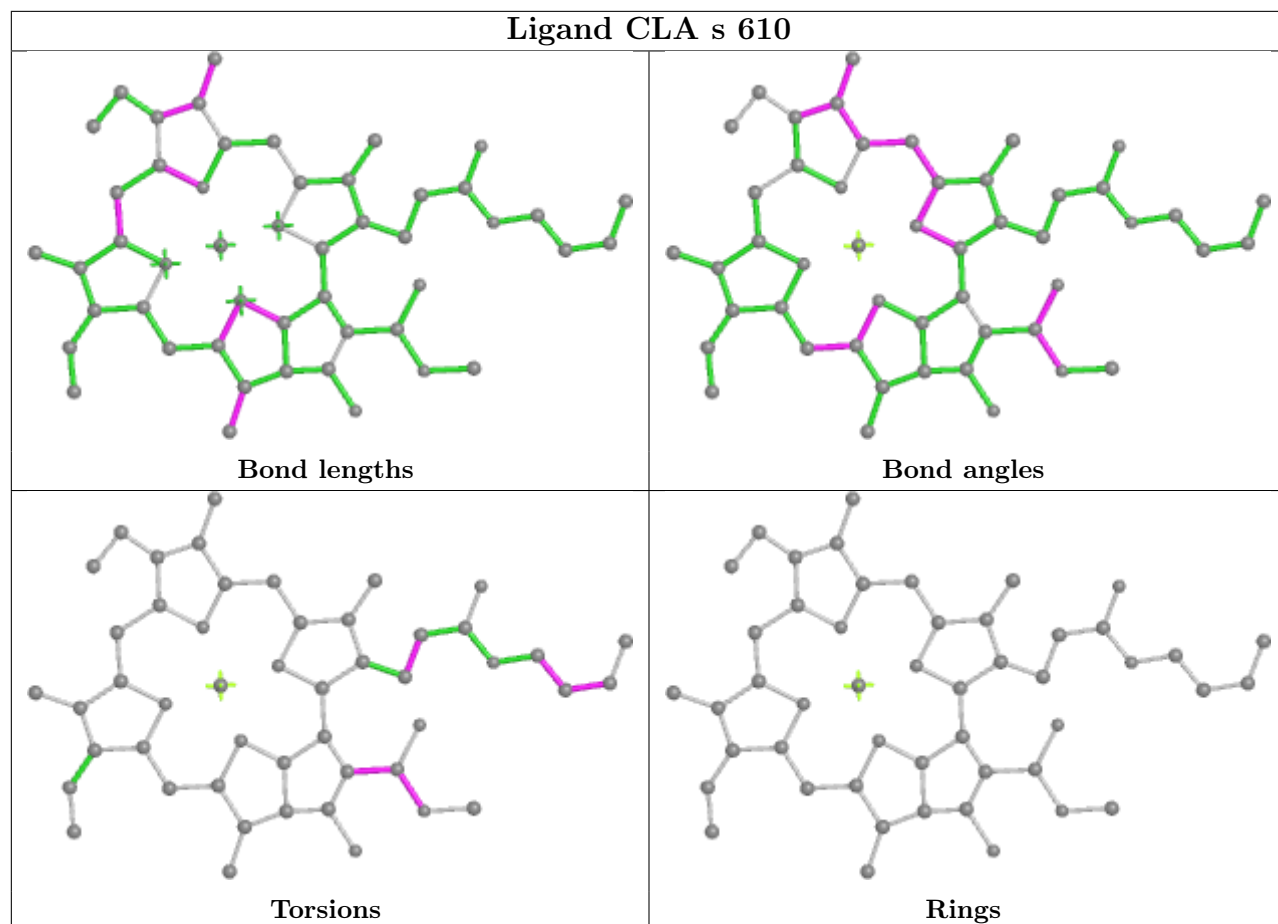




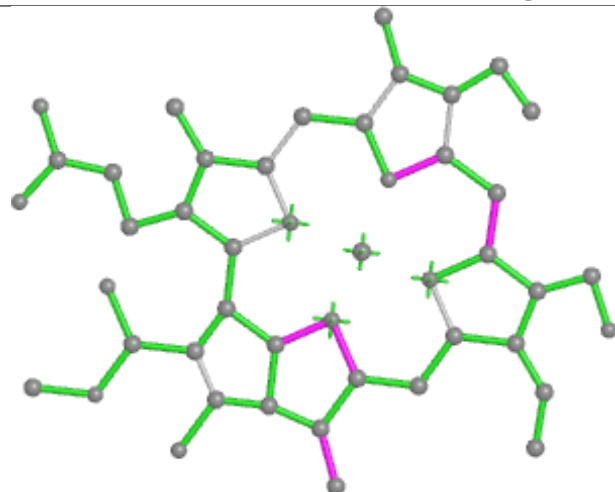


Ligand CLA Aa 405**Ligand DGD B 601**

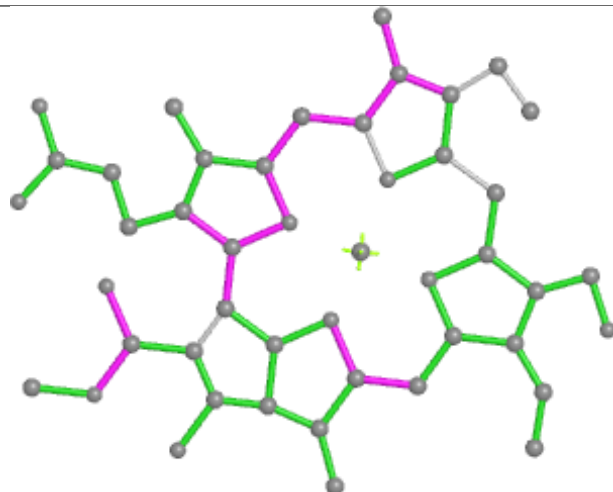
Ligand CLA s 610



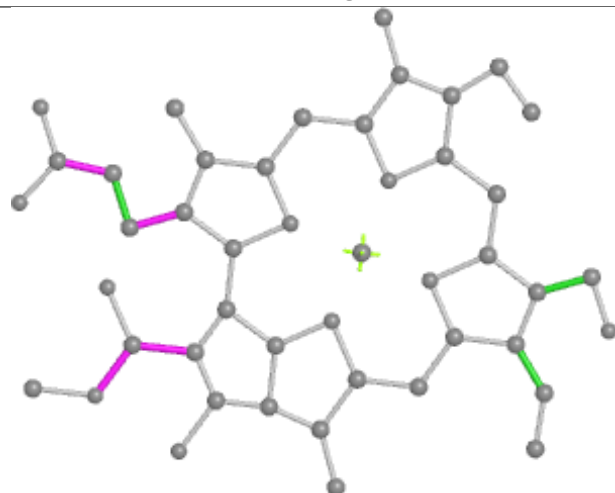
Ligand CHL 4 309



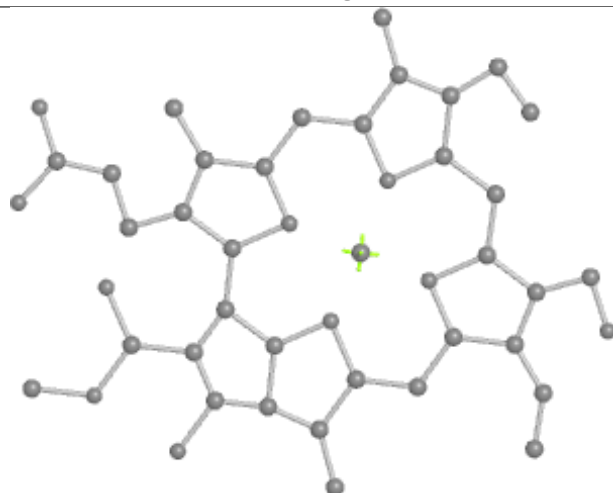
Bond lengths



Bond angles

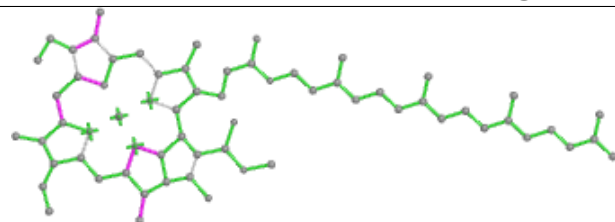


Torsions

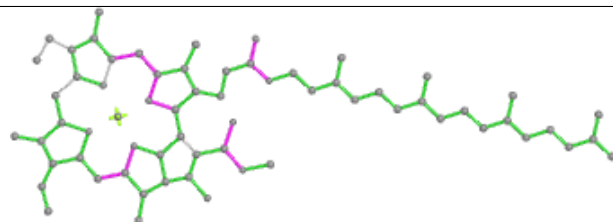


Rings

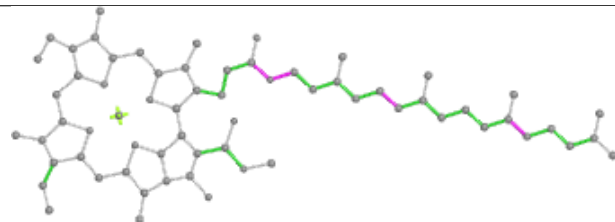
Ligand CLA D 405



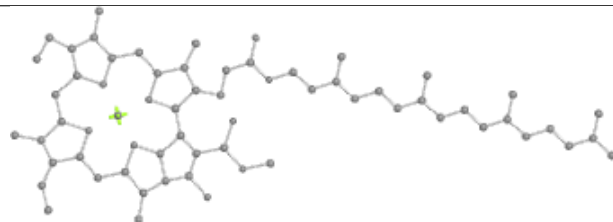
Bond lengths



Bond angles

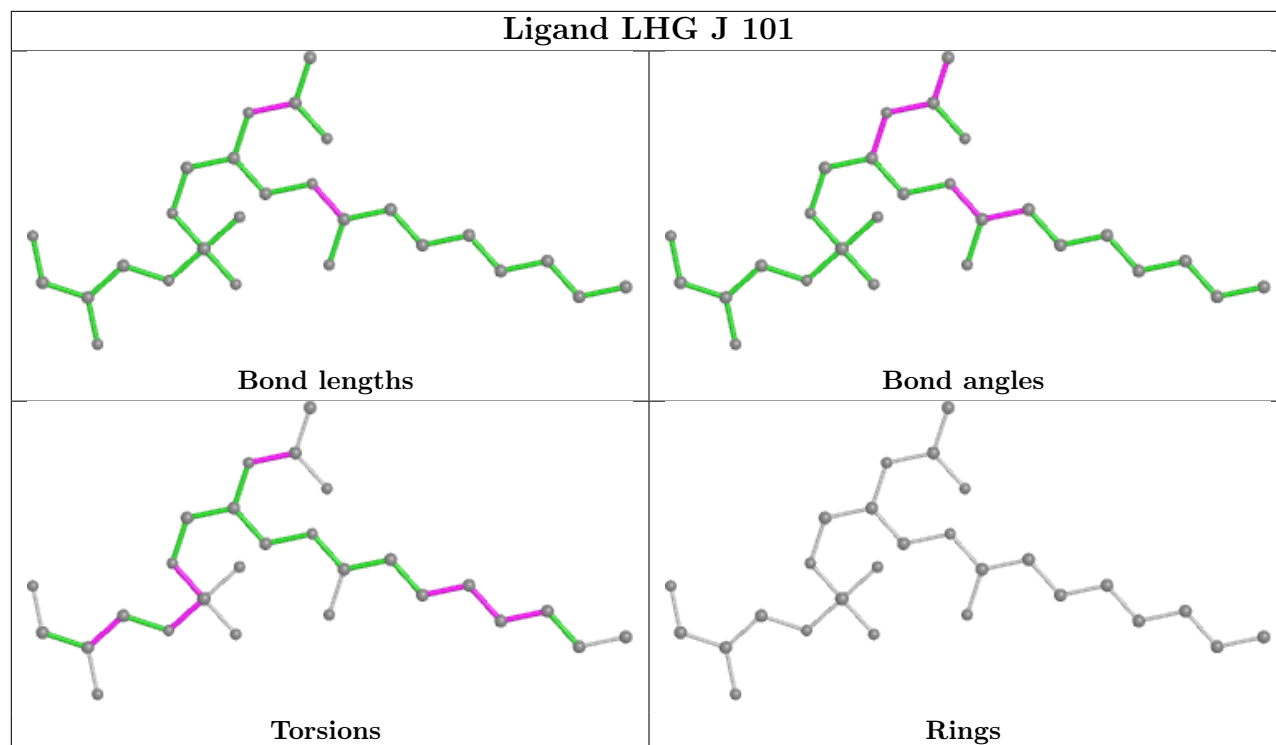


Torsions

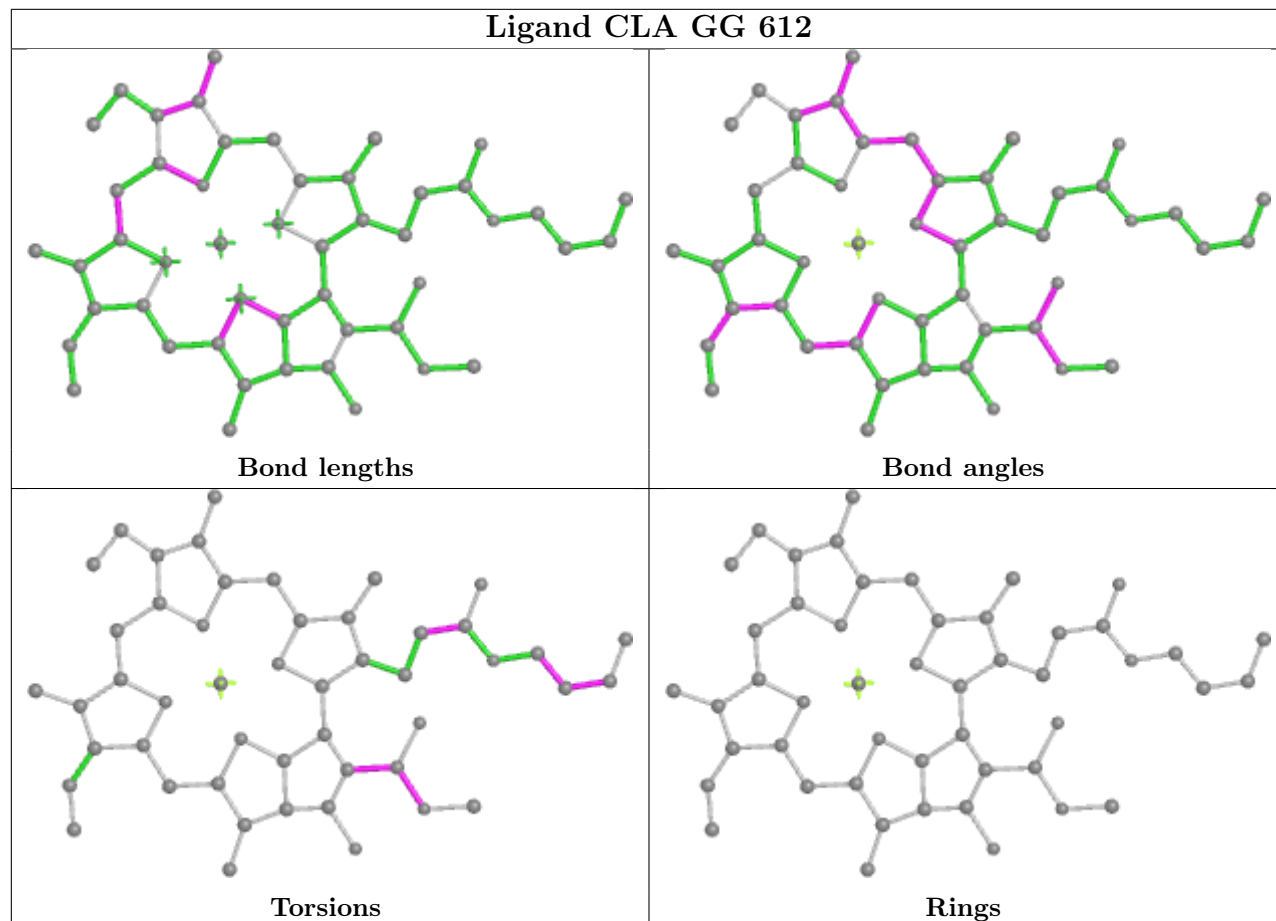


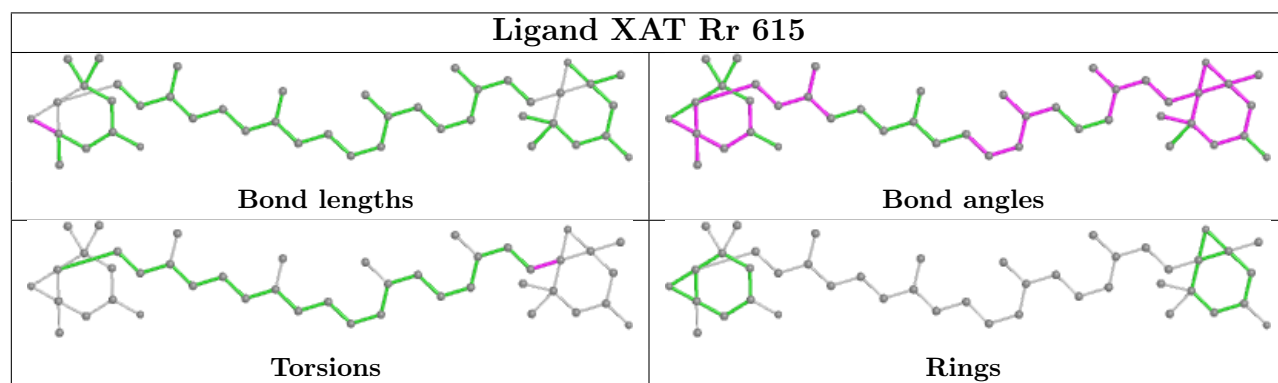
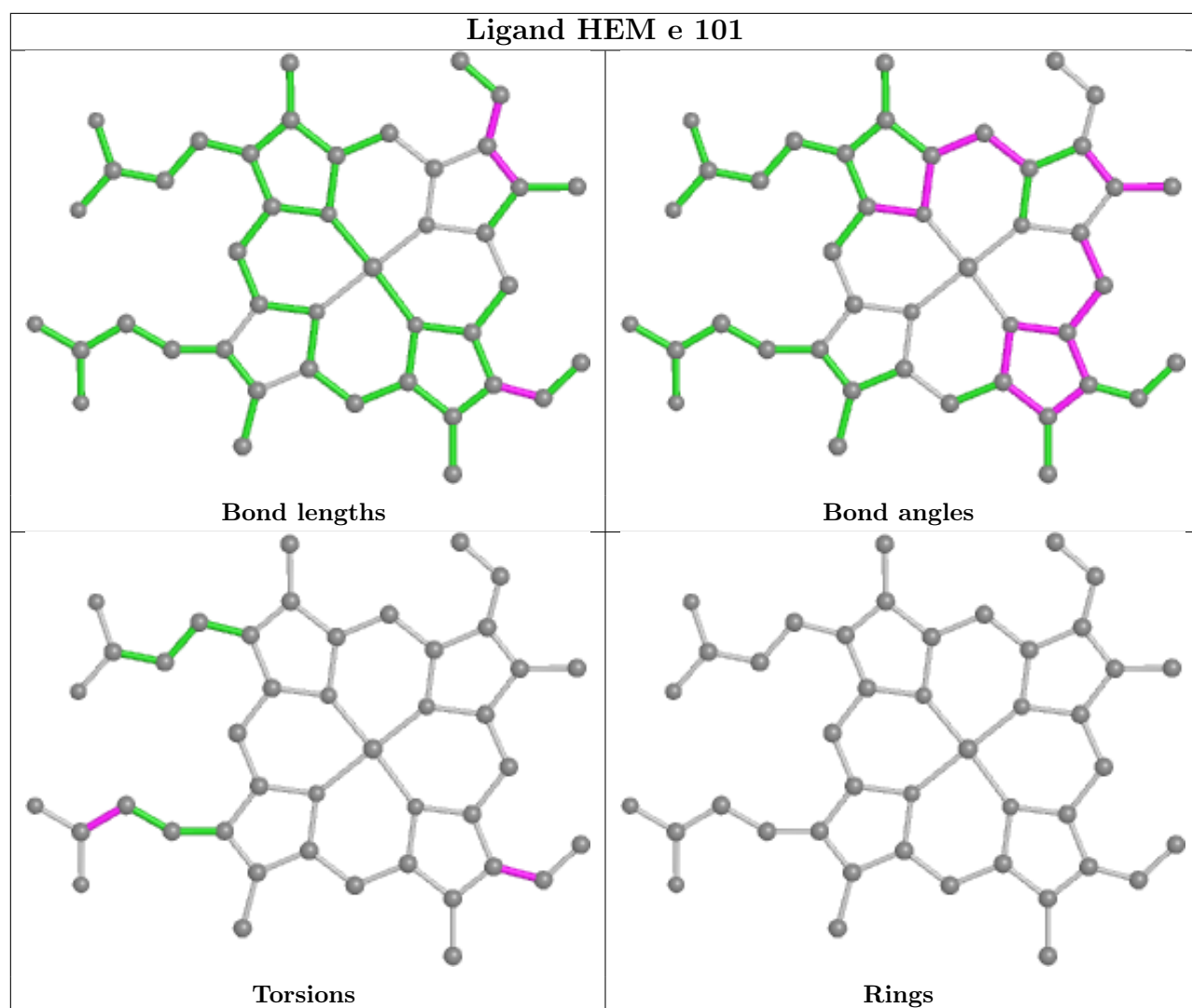
Rings

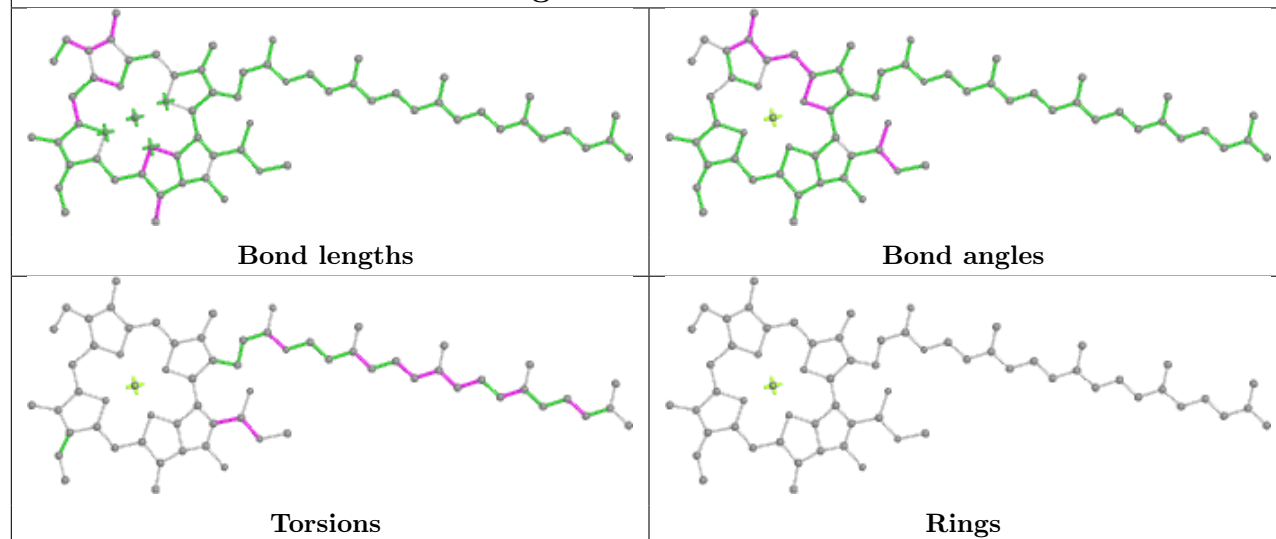
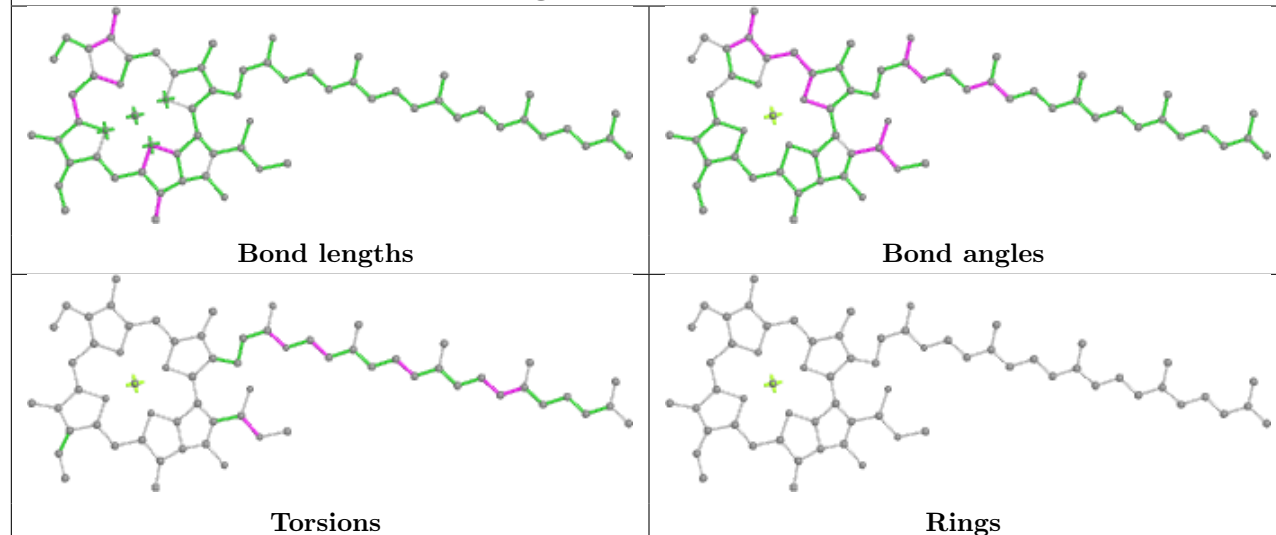
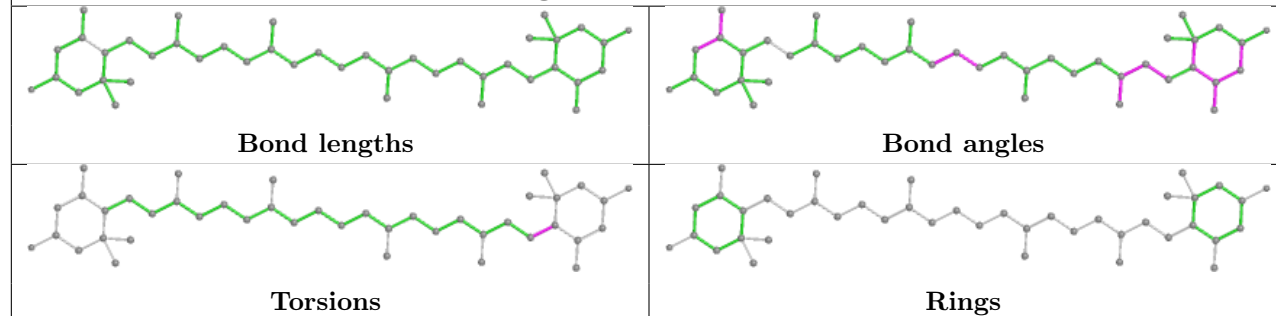
Ligand LHG J 101

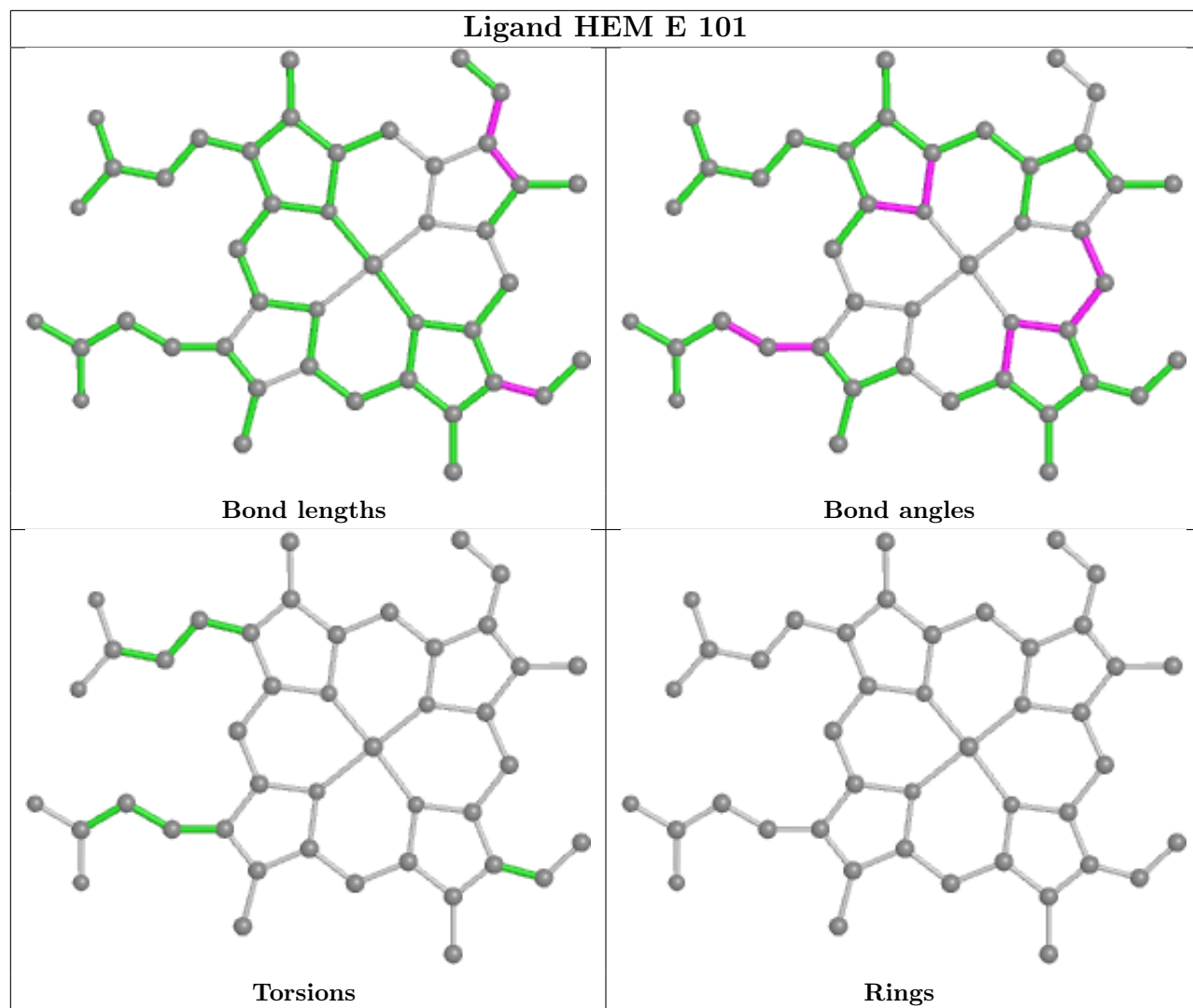


Ligand CLA GG 612

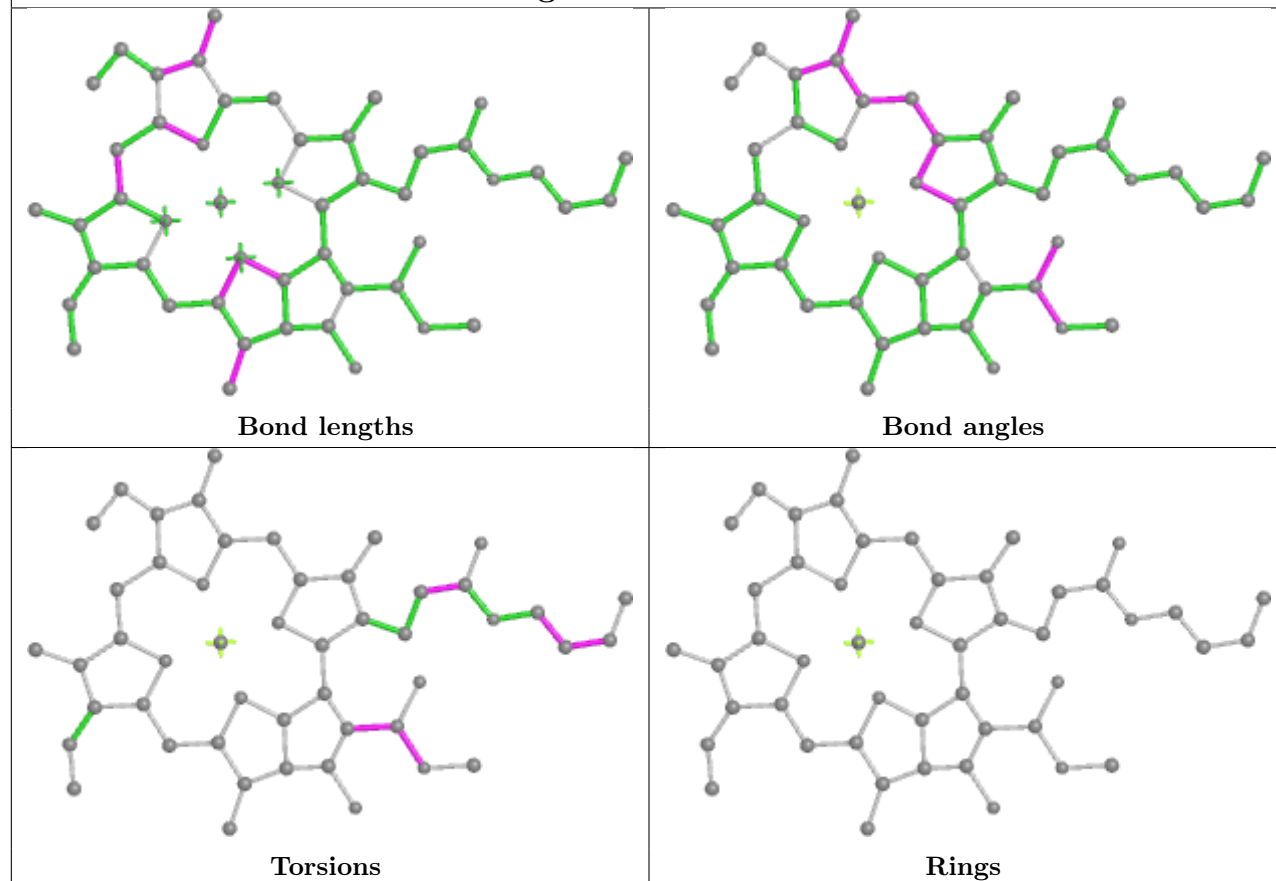




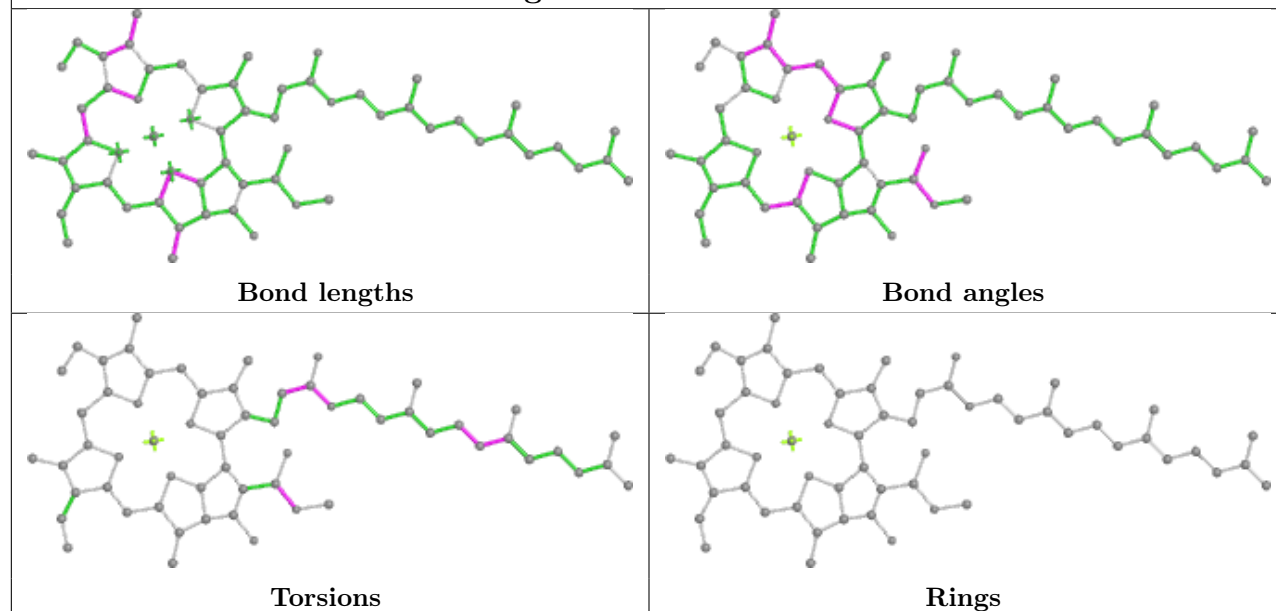
Ligand CLA C 513**Ligand CLA B 610****Ligand LUT S 614**



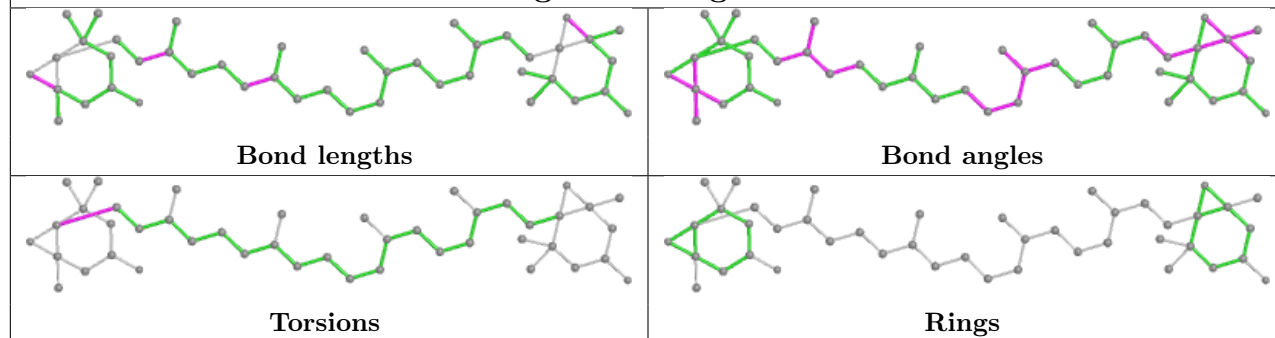
Ligand CLA r 603



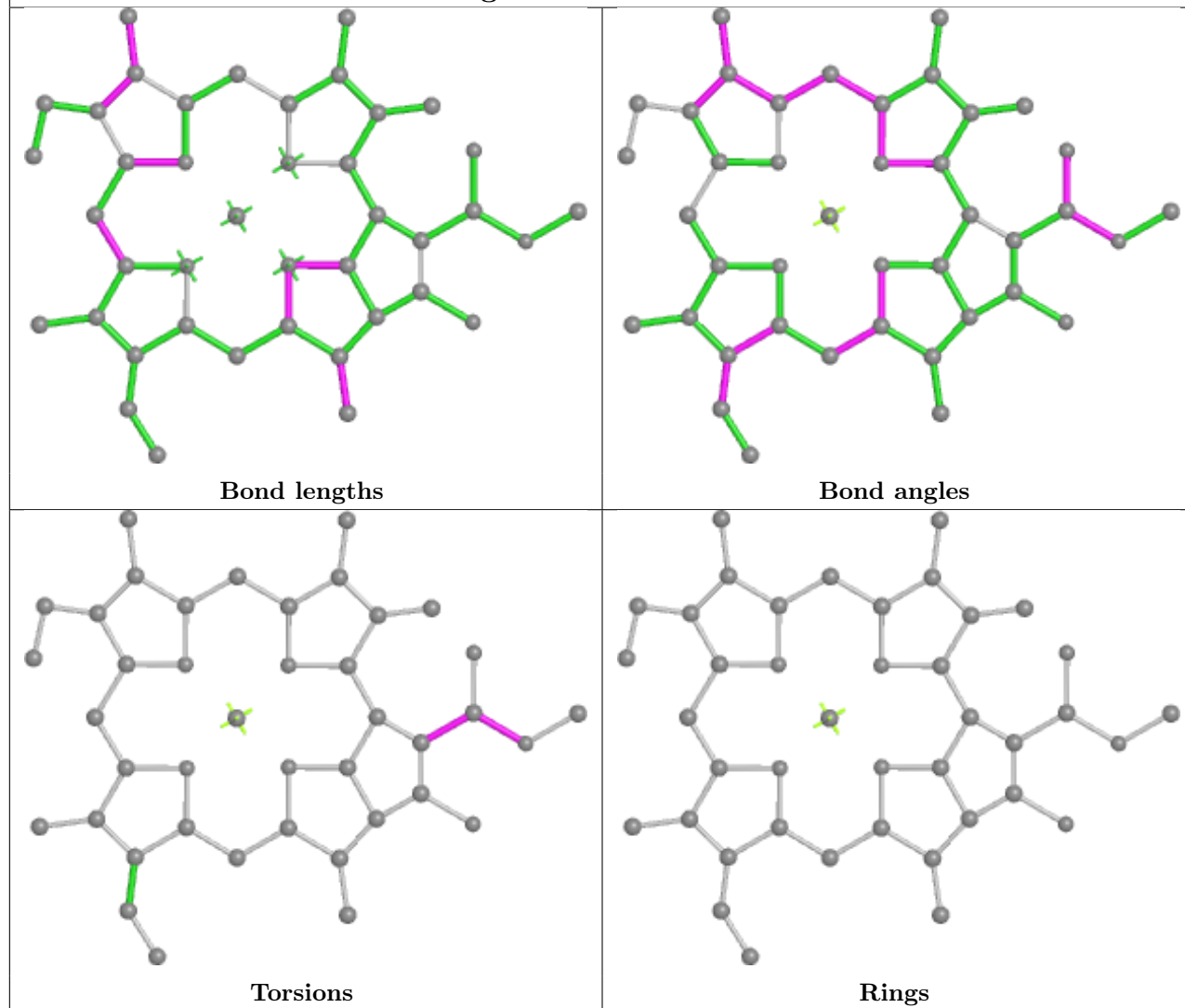
Ligand CLA Cc 510

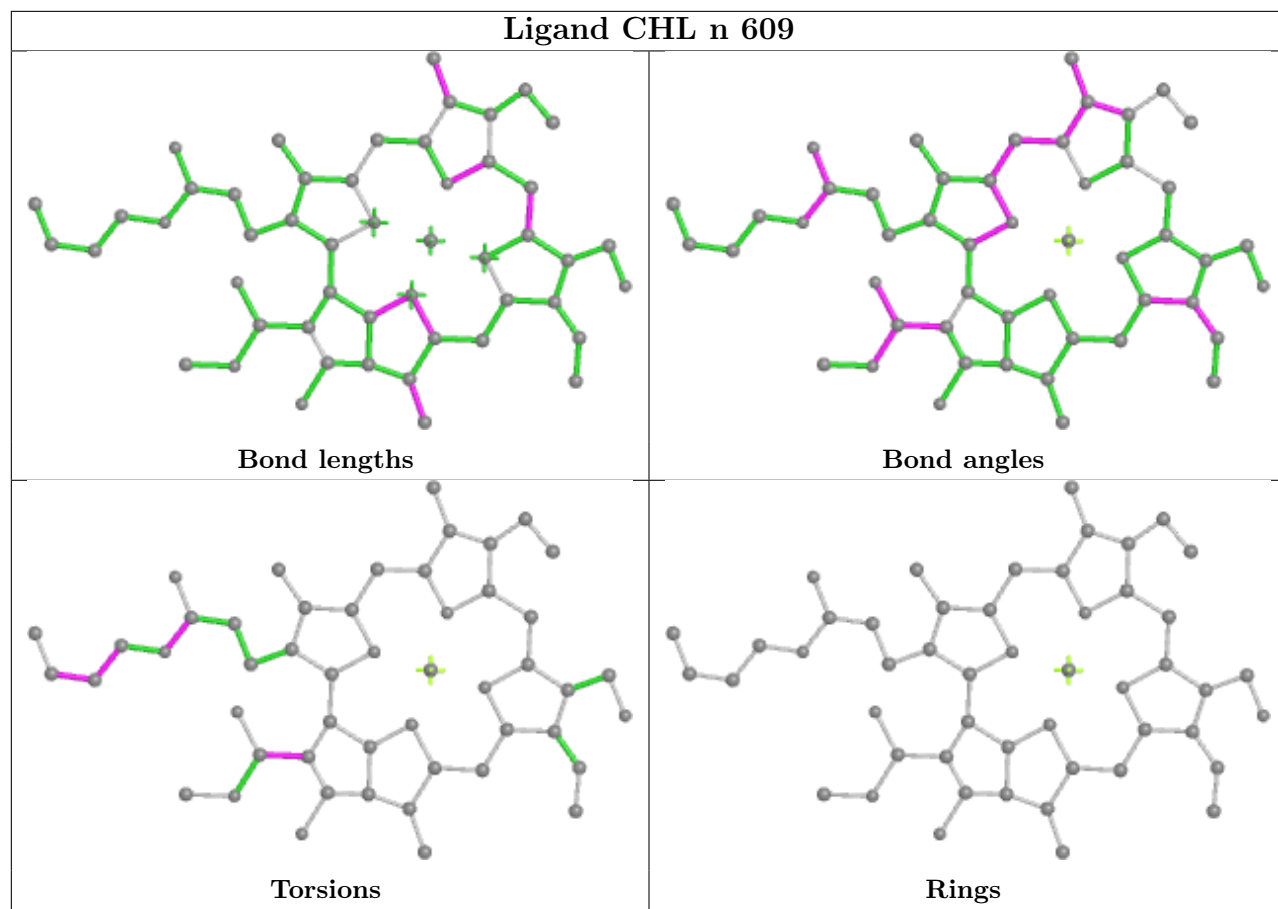


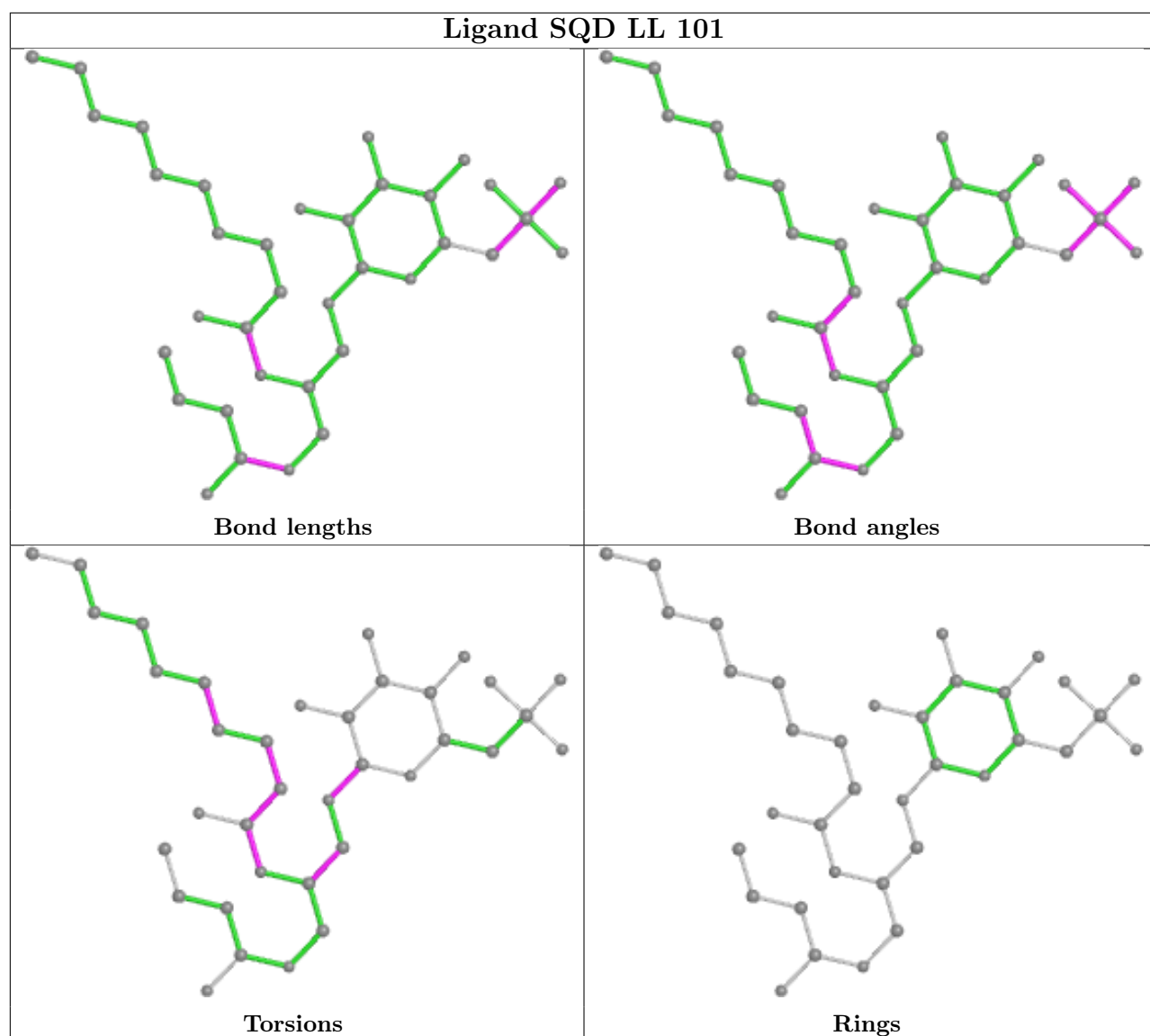
Ligand XAT g 619

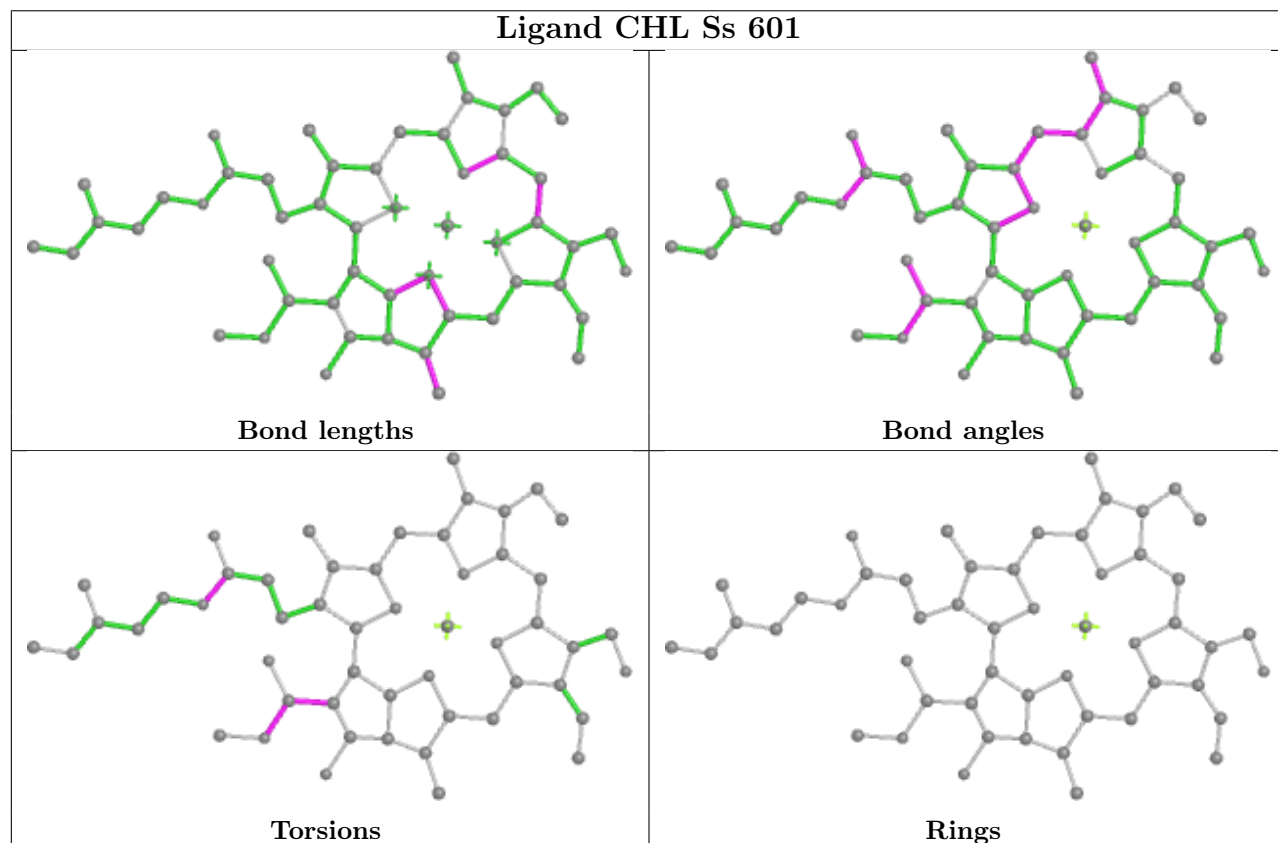
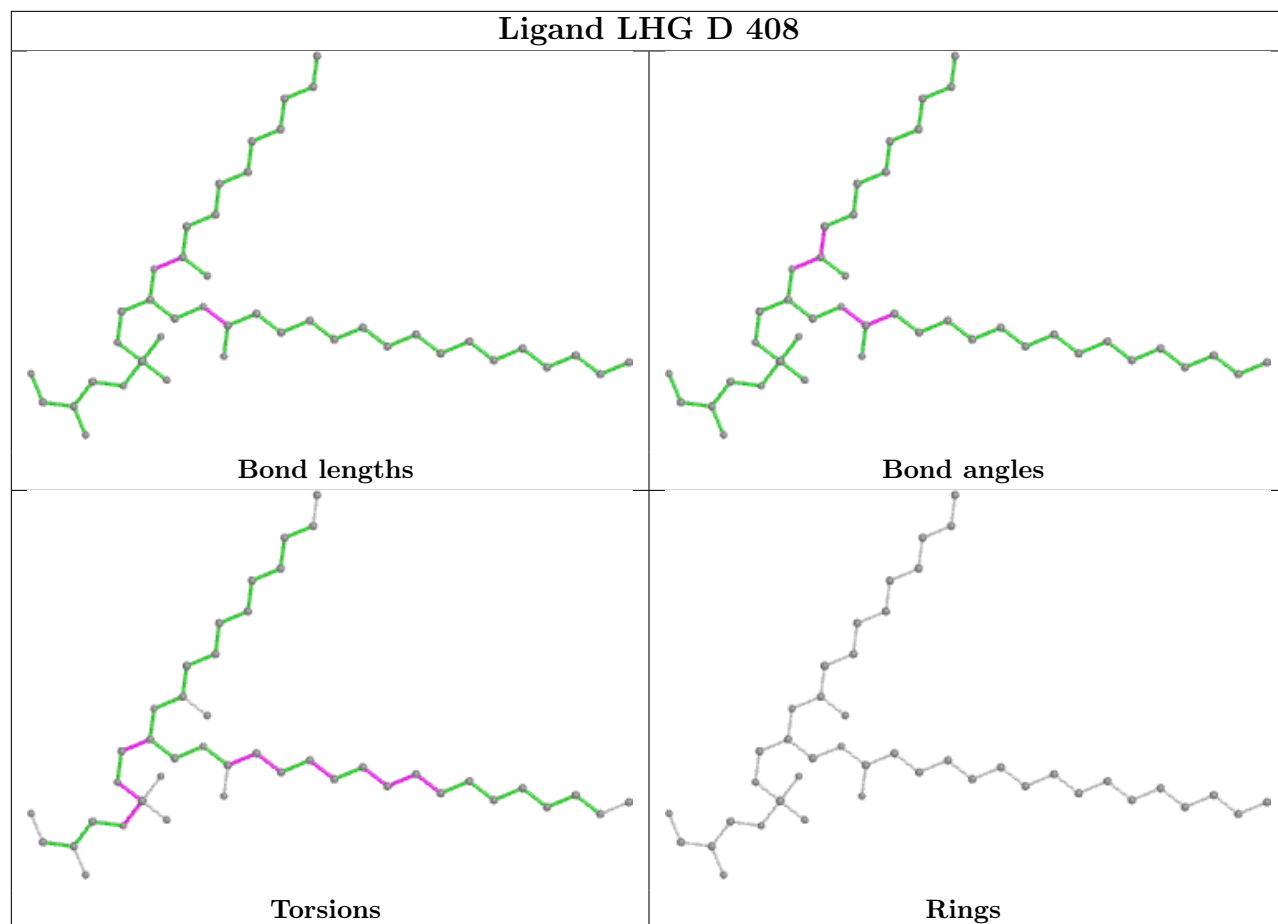


Ligand CLA RR 313

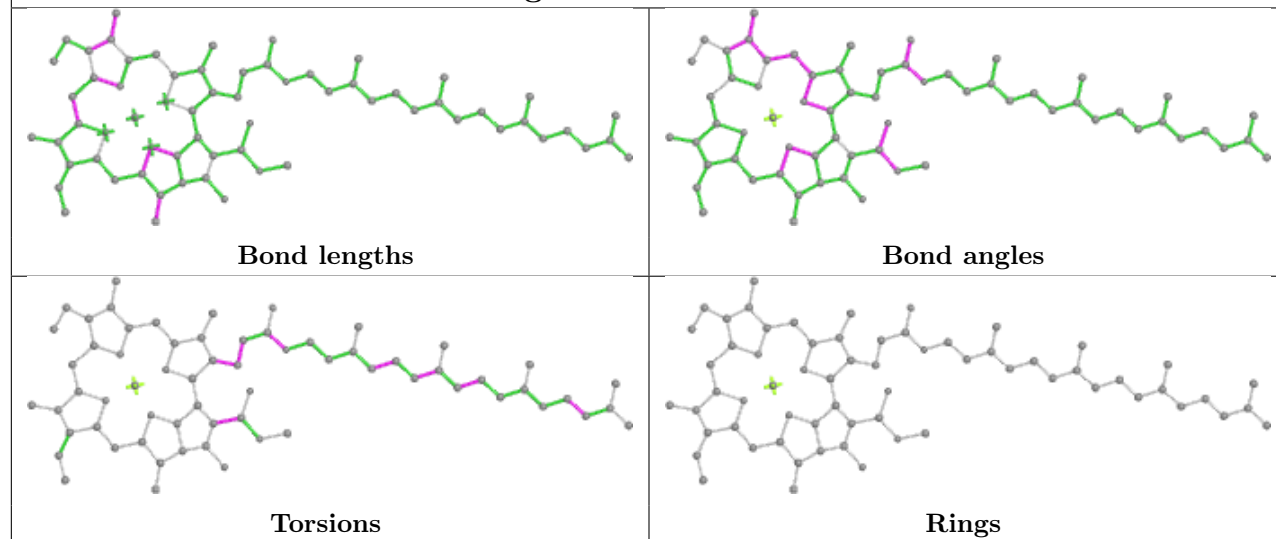




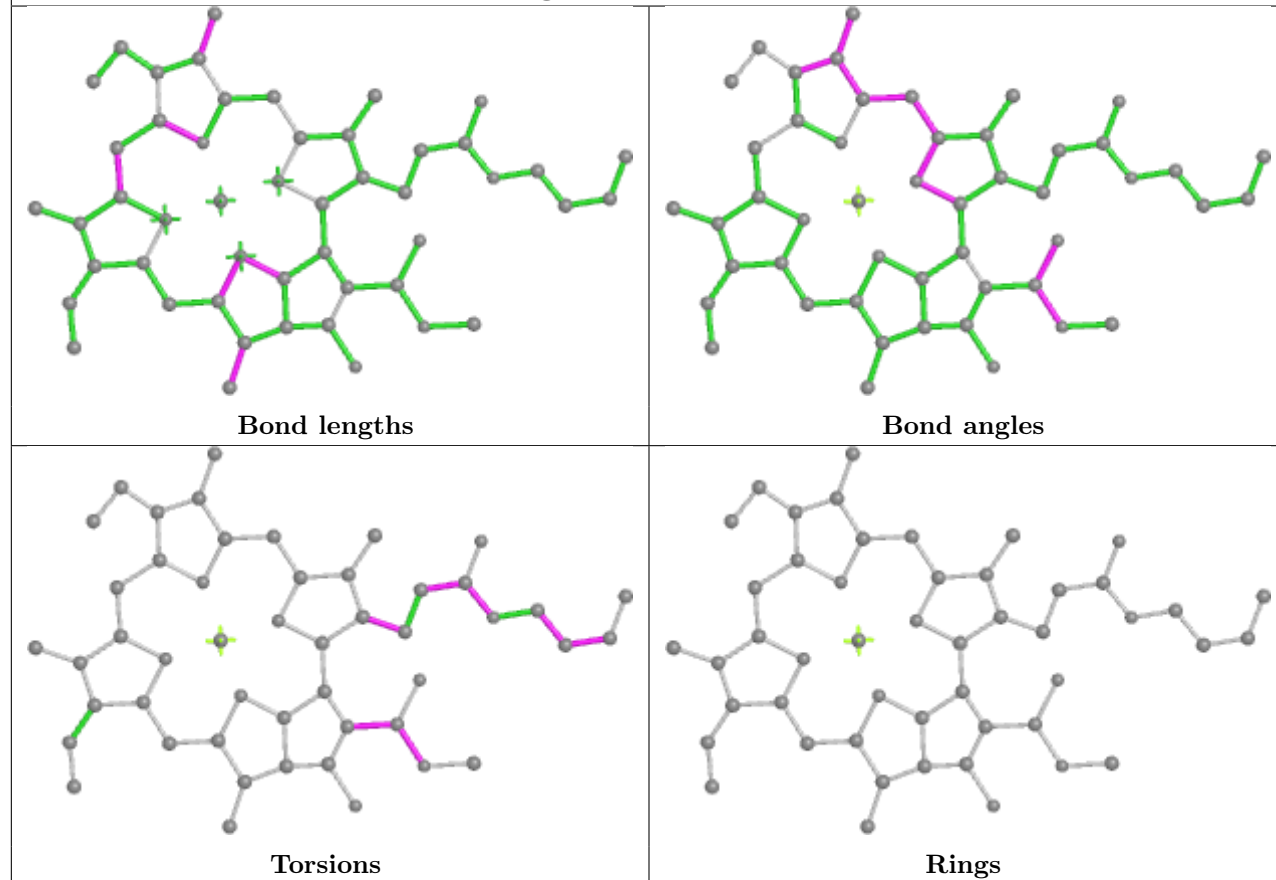


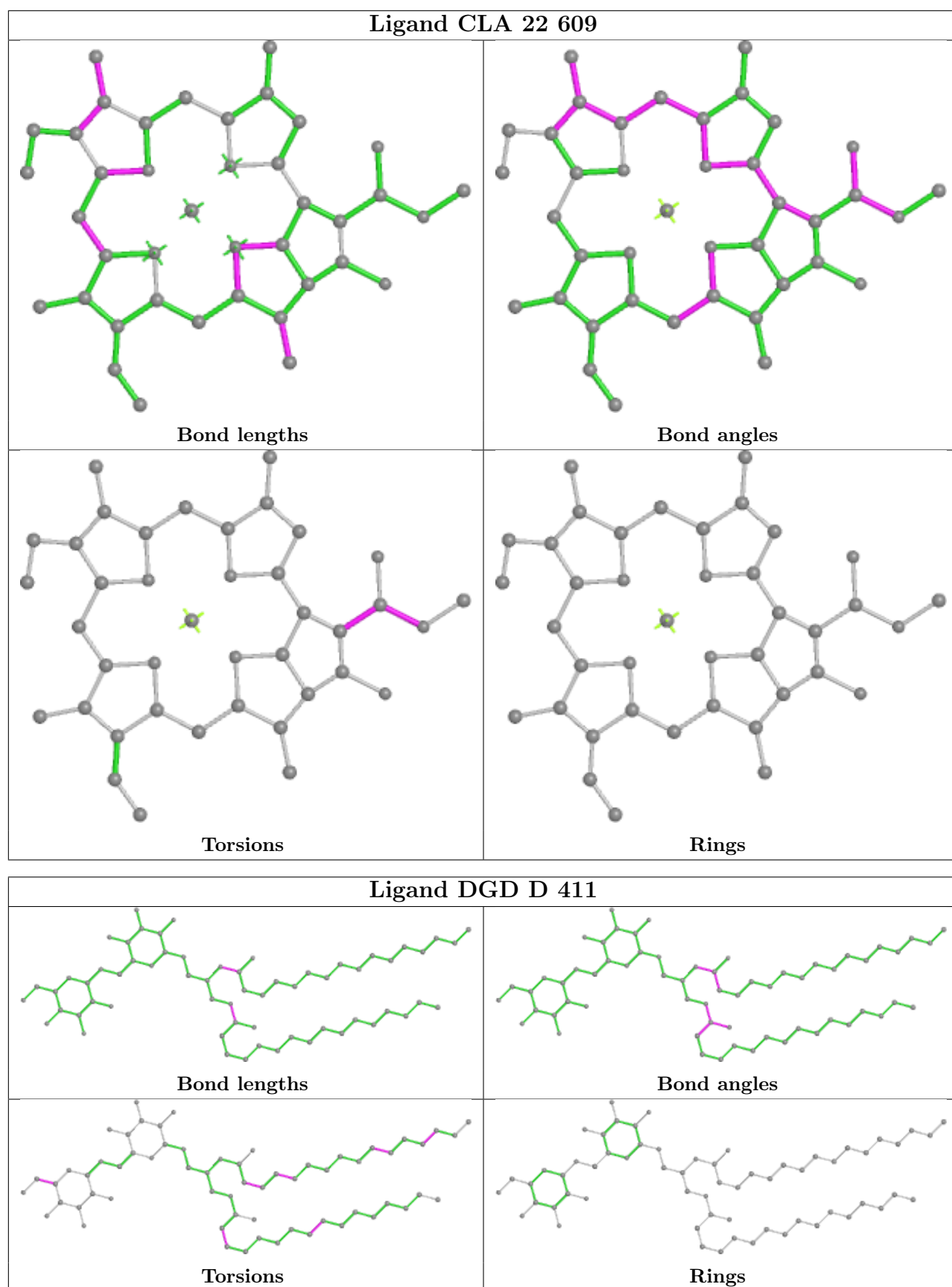


Ligand CLA Rr 602

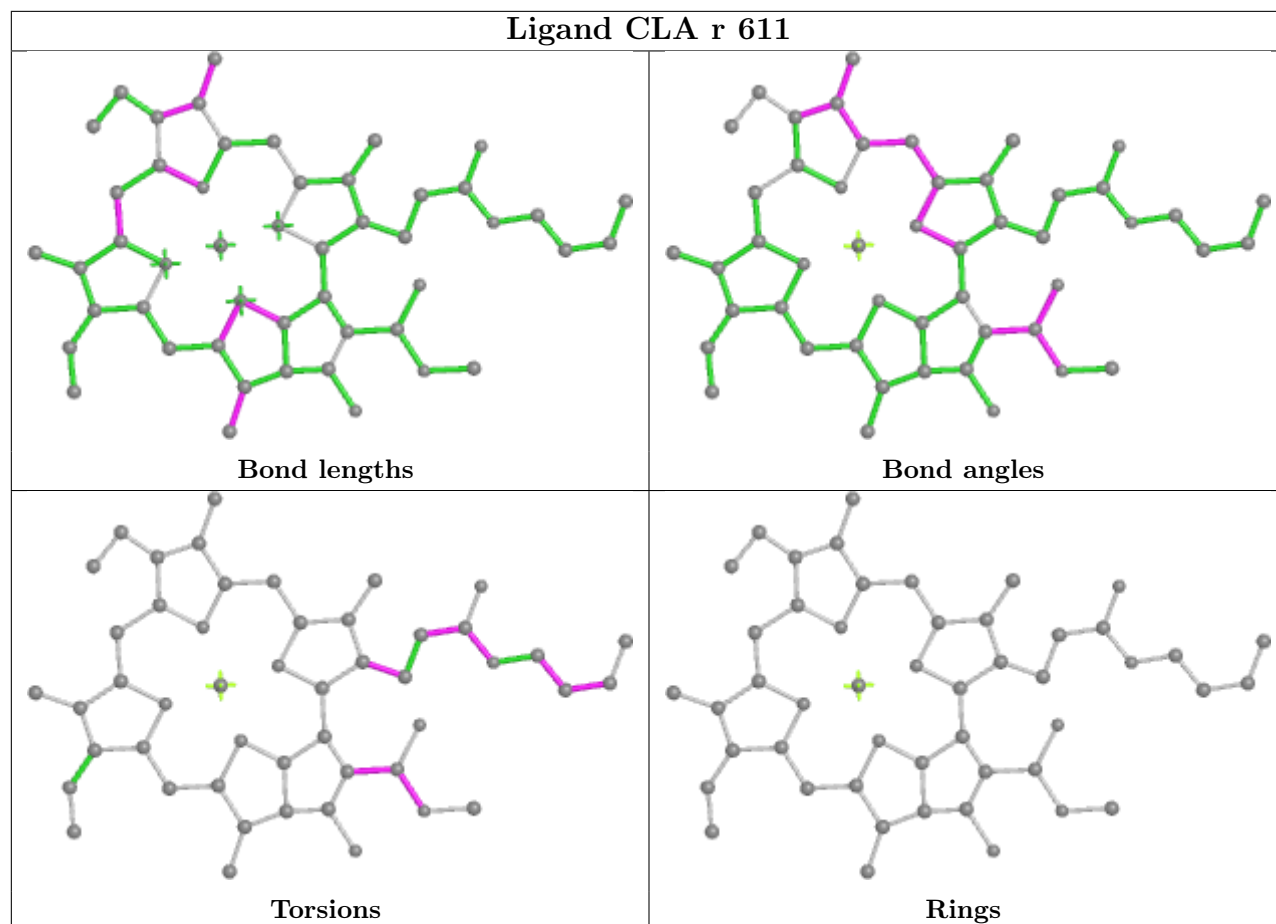


Ligand CLA r 608

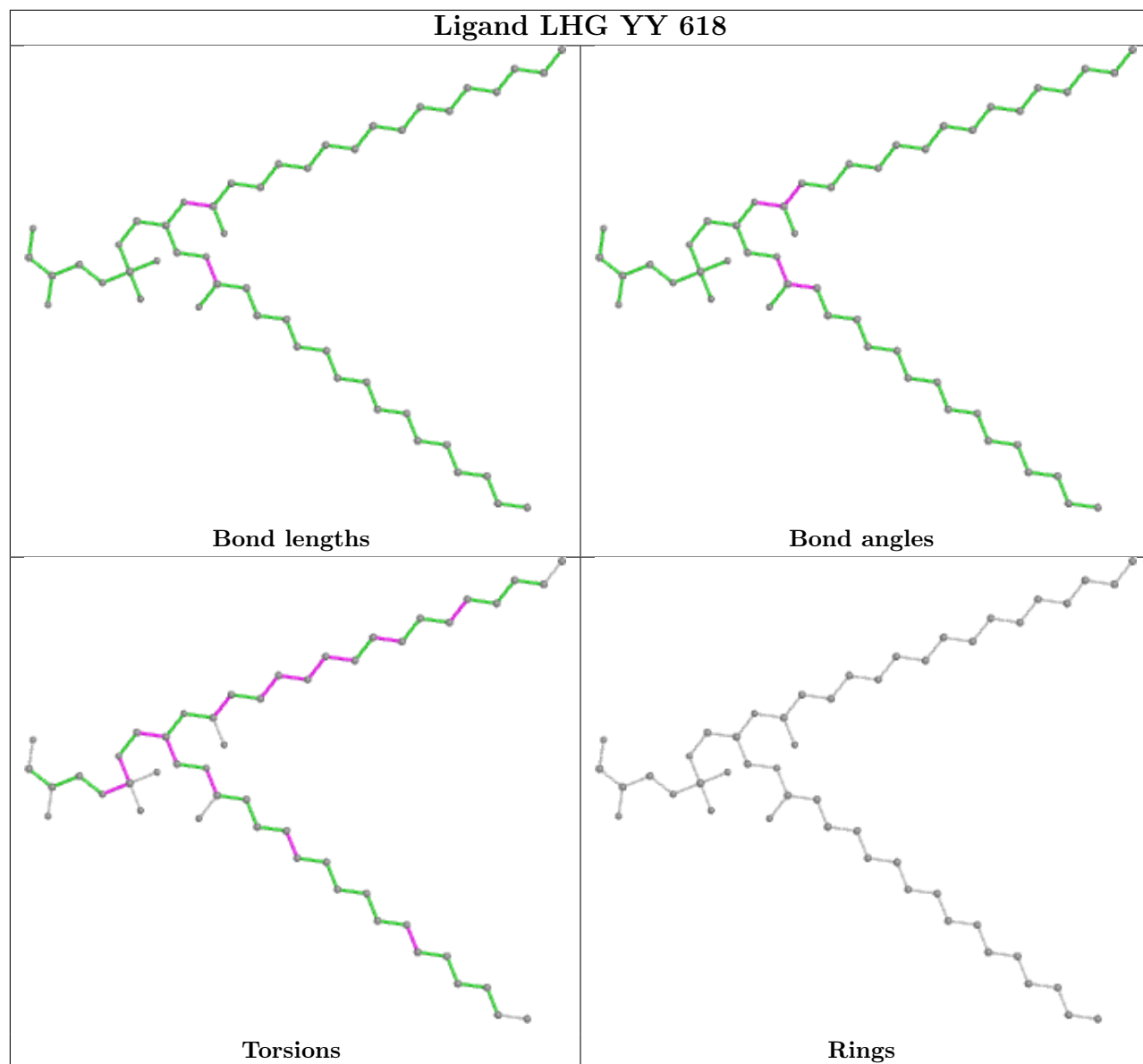




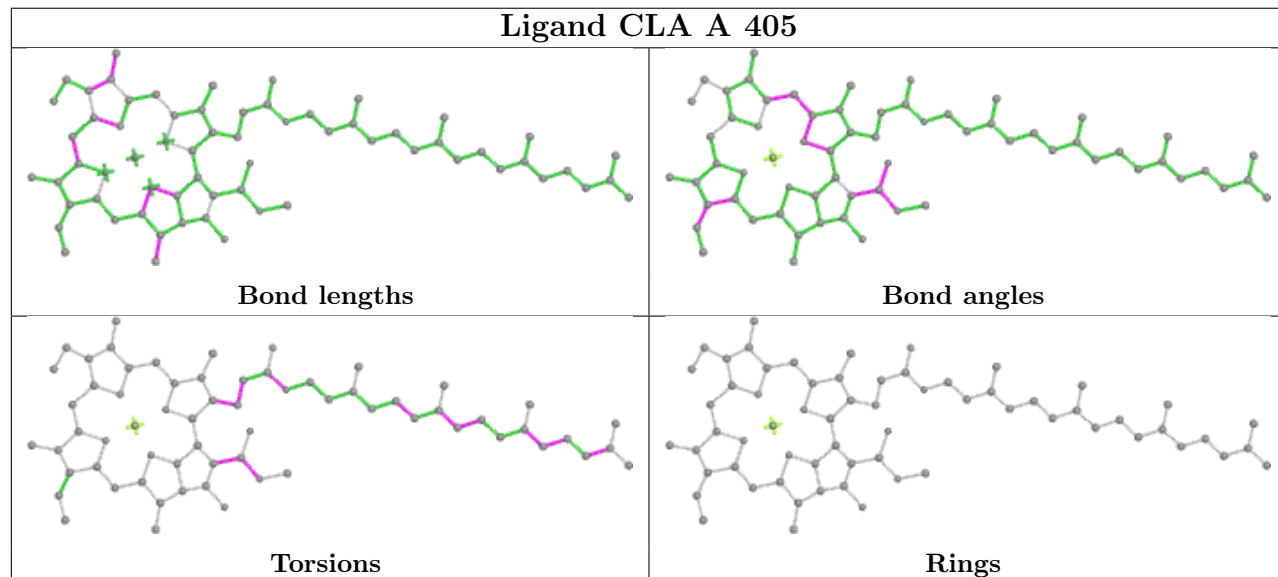
Ligand CLA r 611

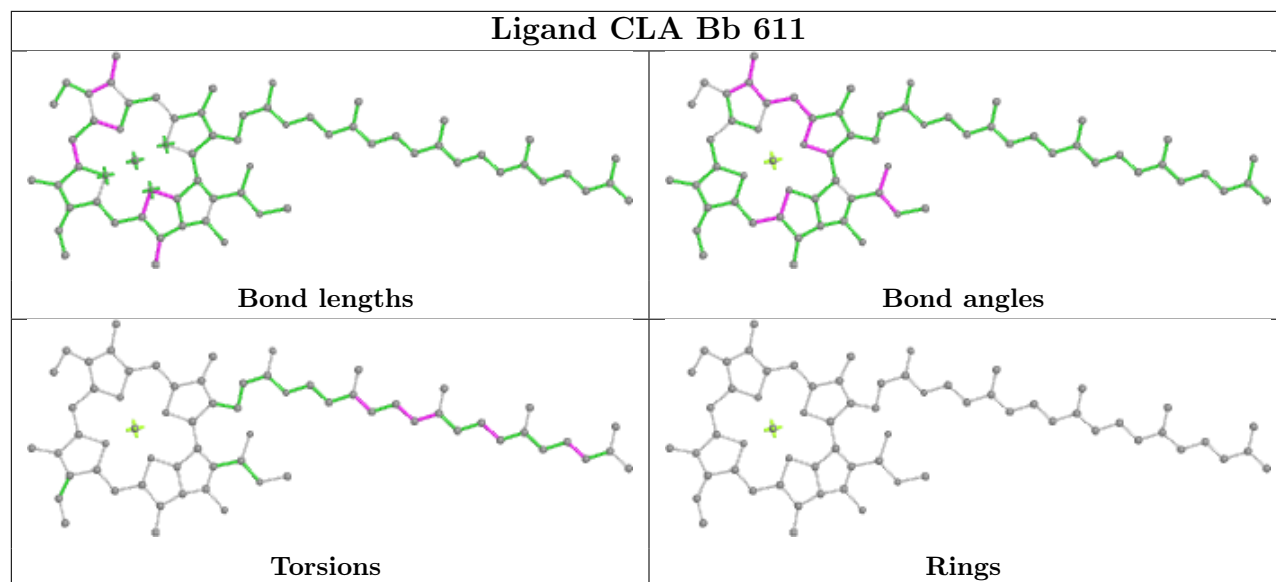
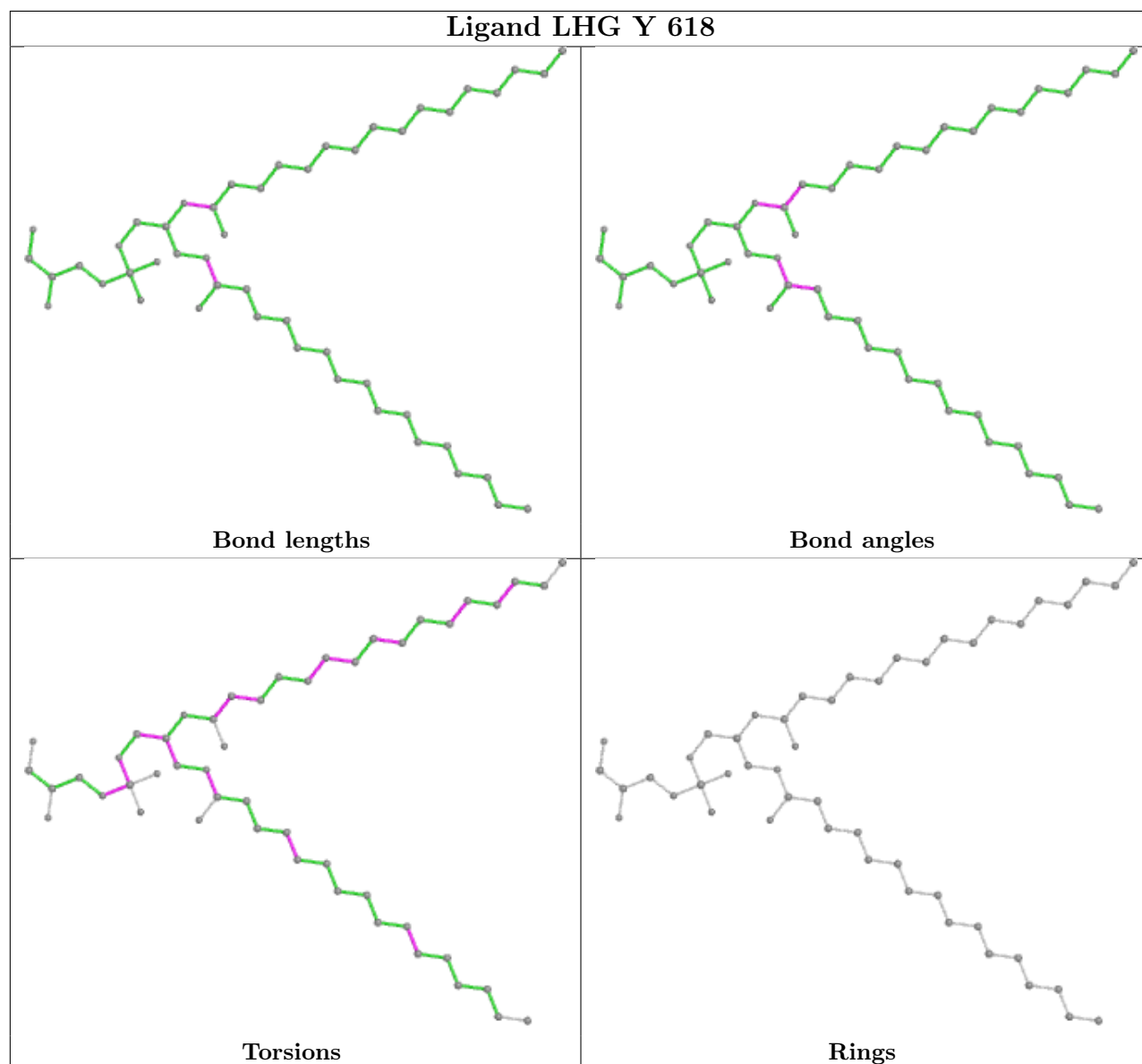


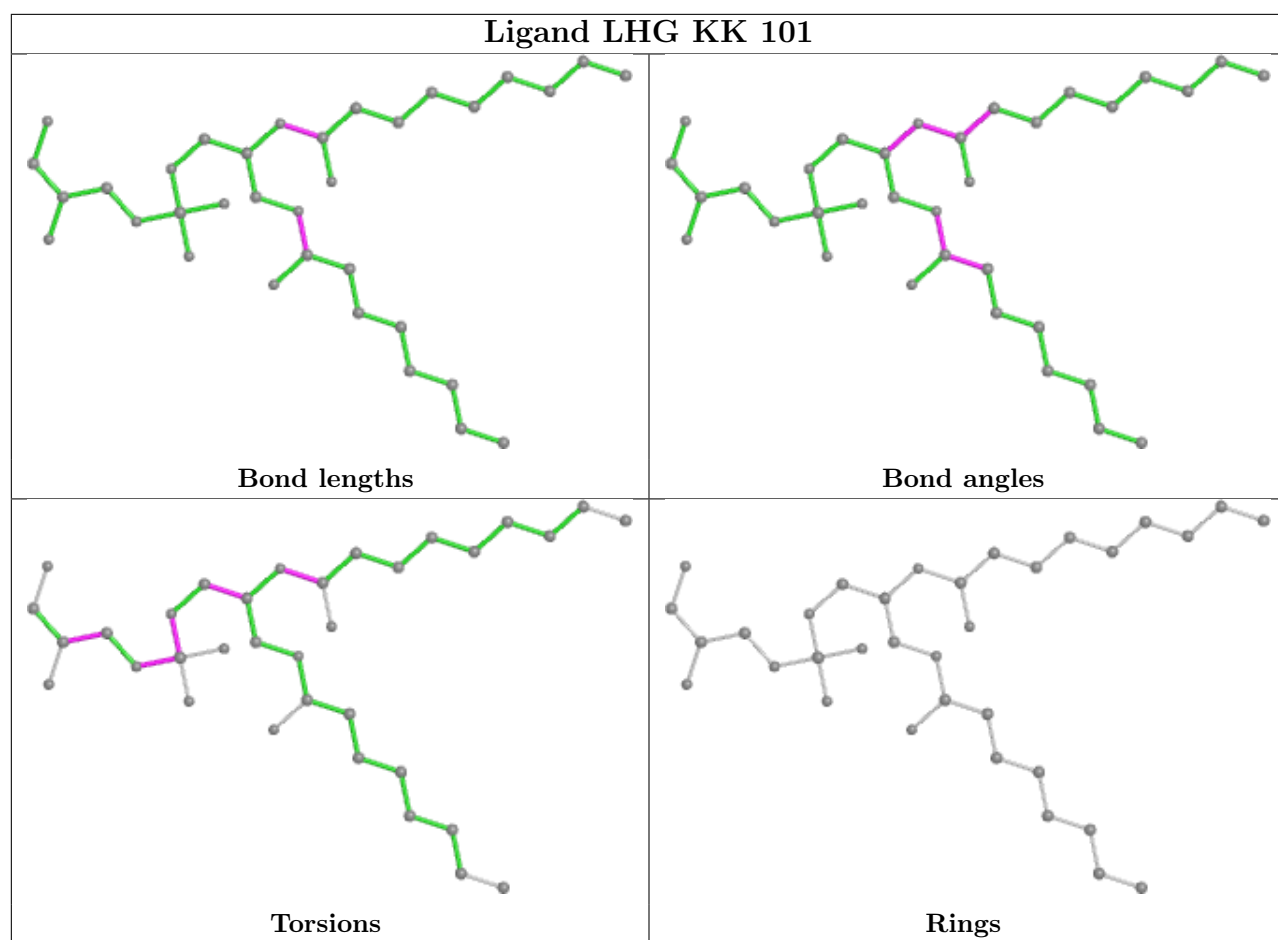
Ligand LHG YY 618



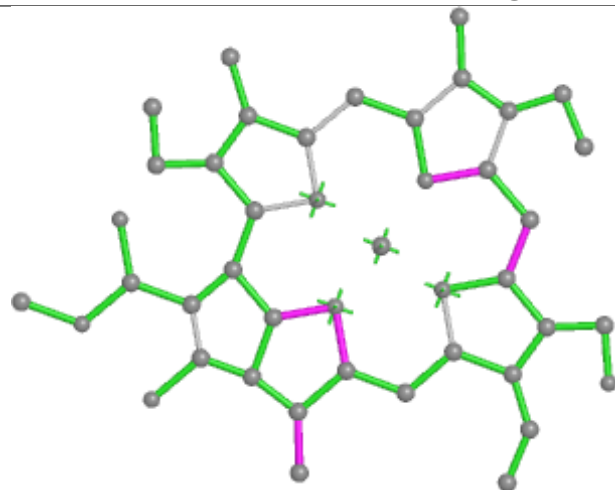
Ligand CLA A 405



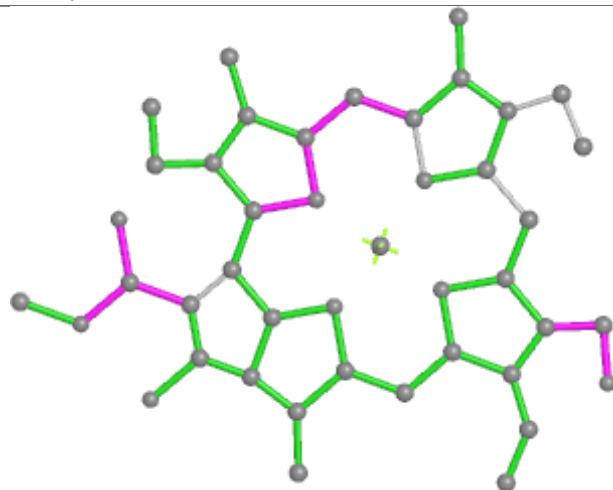
Ligand CLA Bb 611**Ligand LHG Y 618**



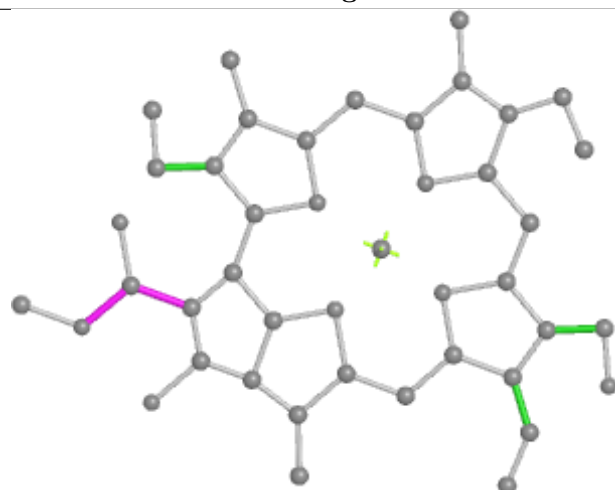
Ligand CHL Yy 607



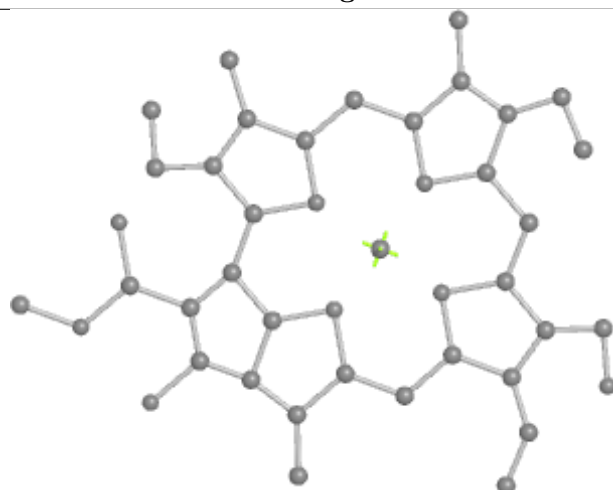
Bond lengths



Bond angles

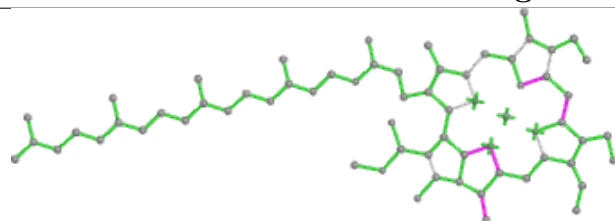


Torsions

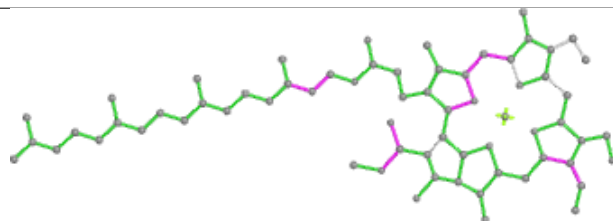


Rings

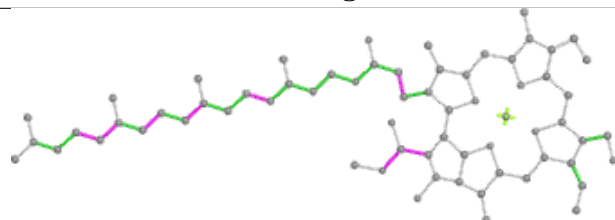
Ligand CHL N 607



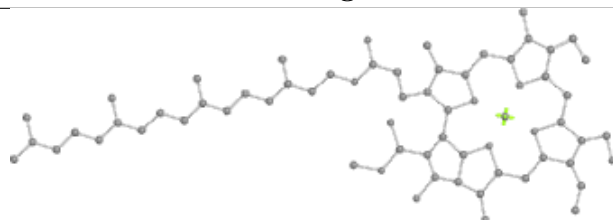
Bond lengths



Bond angles

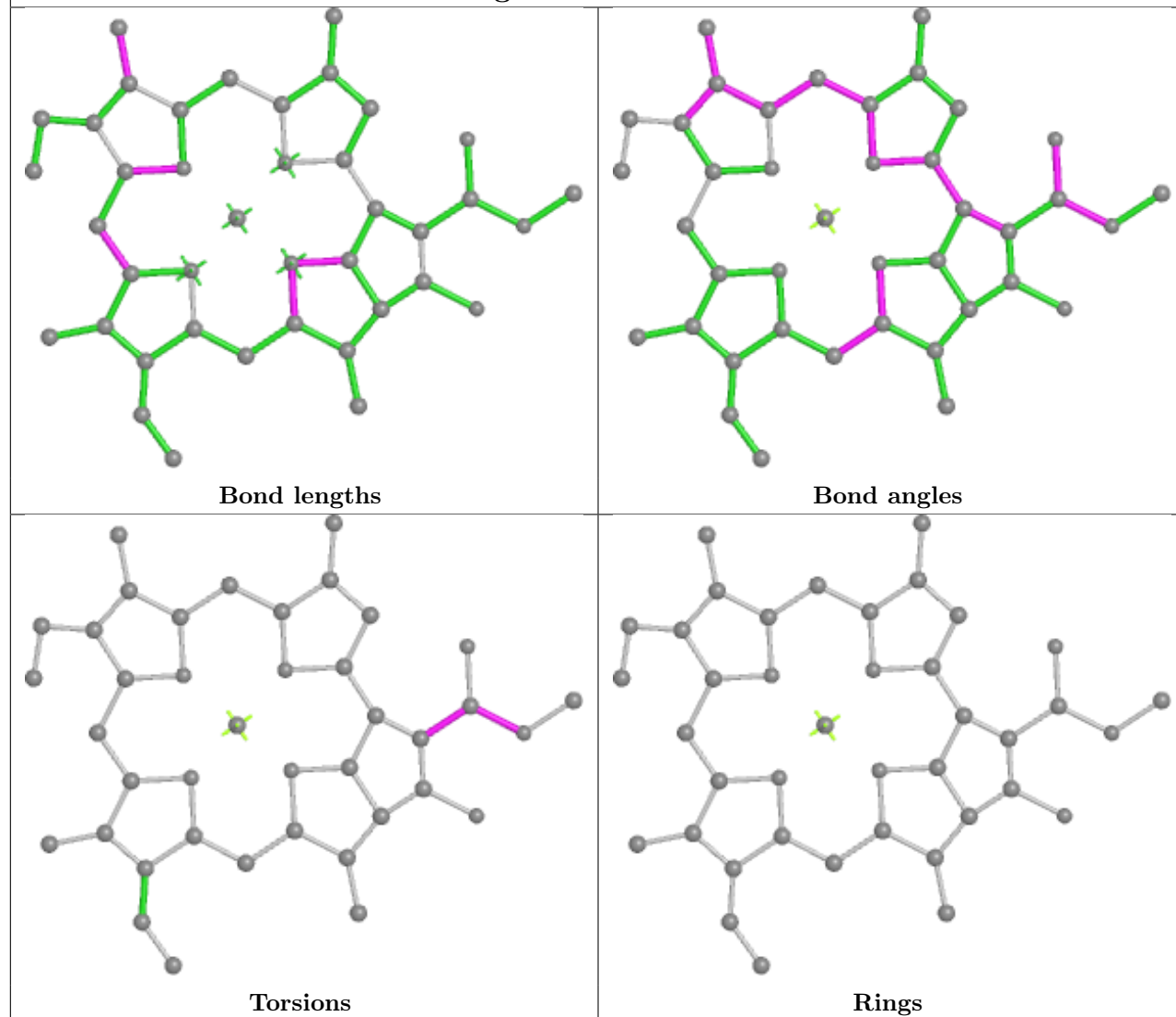


Torsions

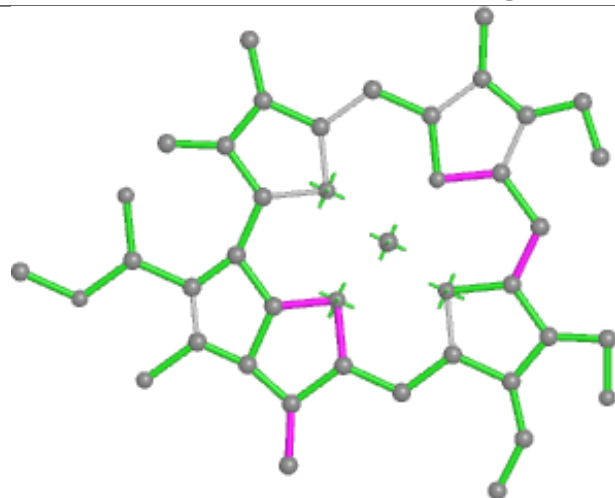


Rings

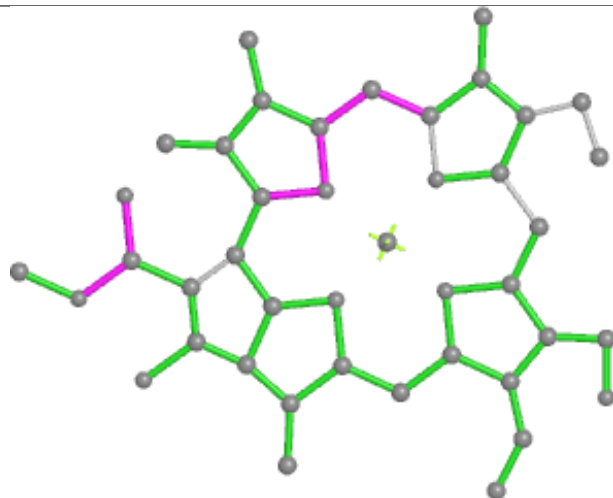
Ligand CLA 1 610



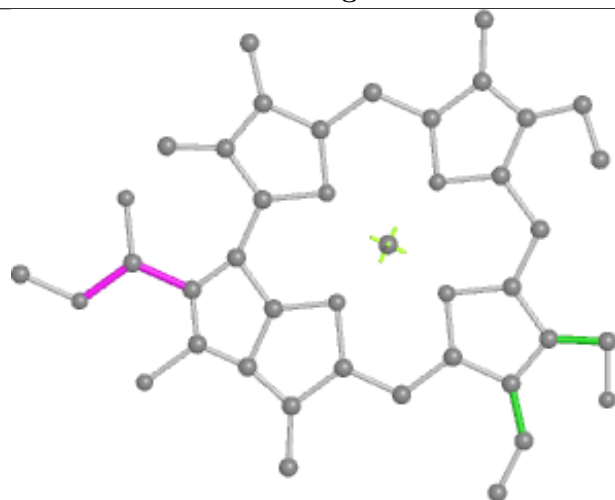
Ligand CHL NN 606



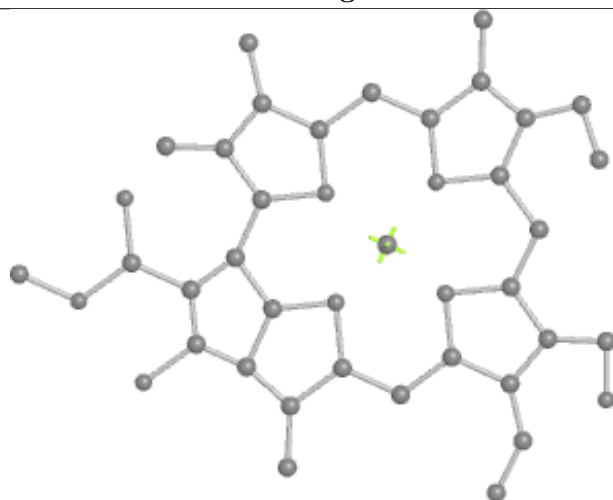
Bond lengths



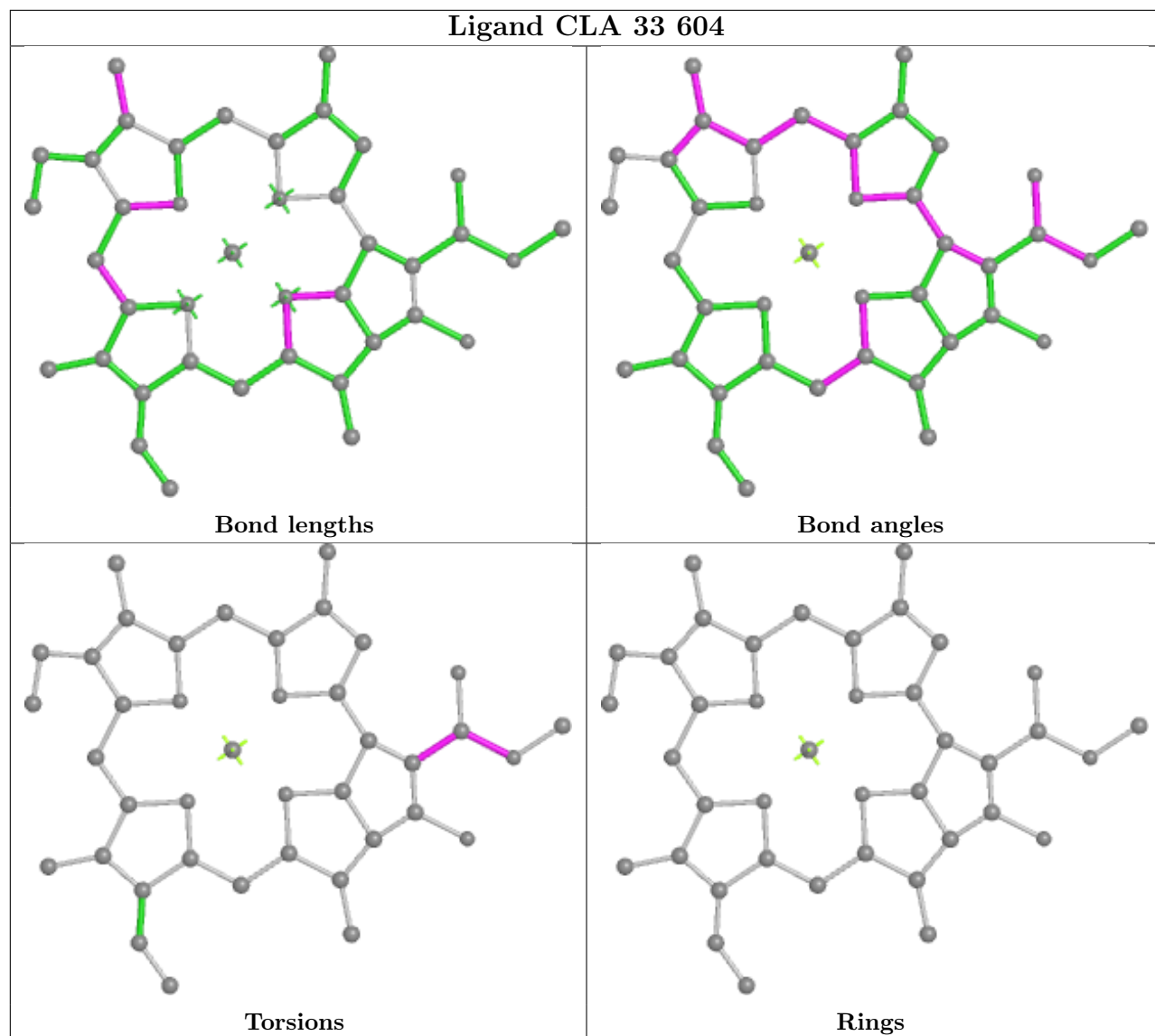
Bond angles



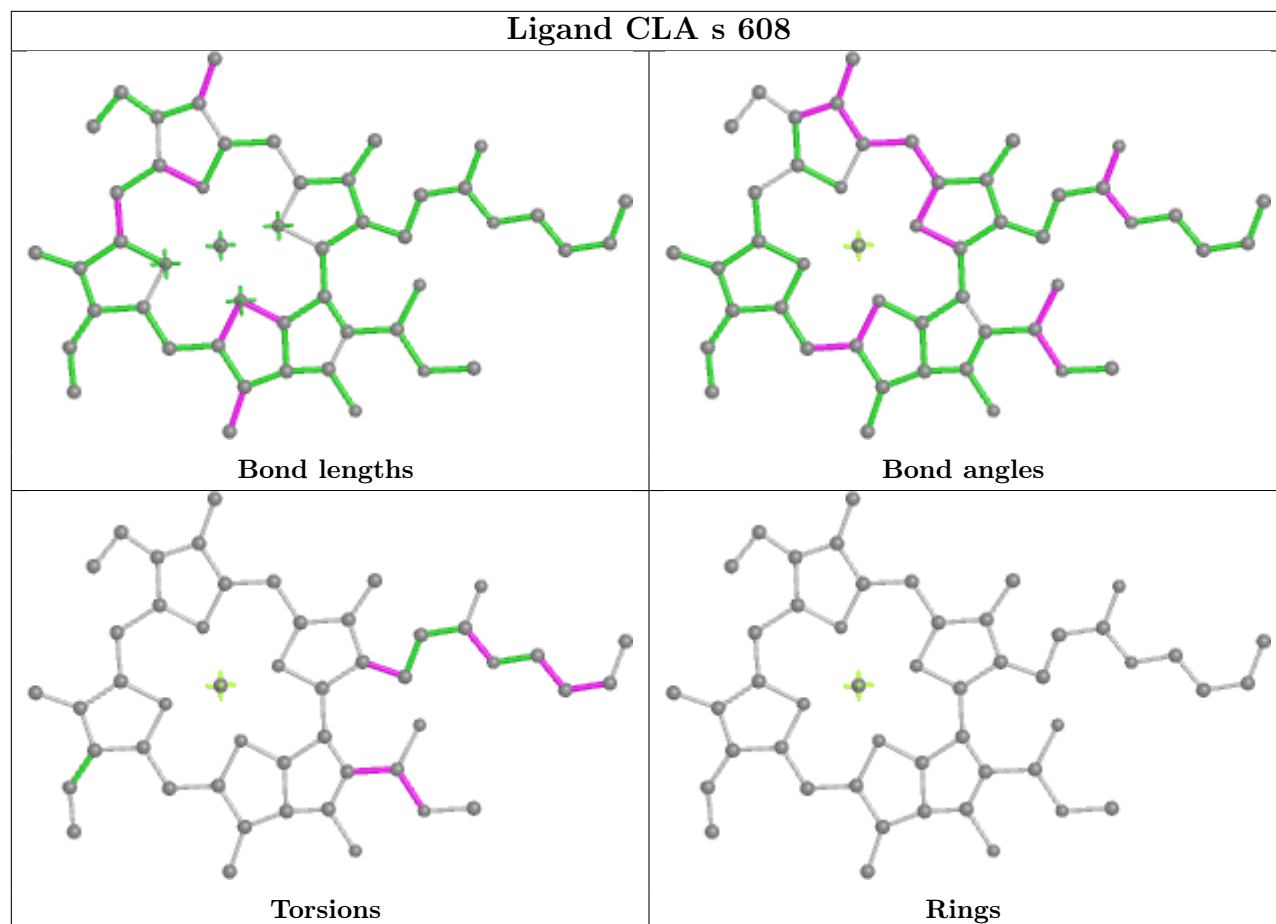
Torsions



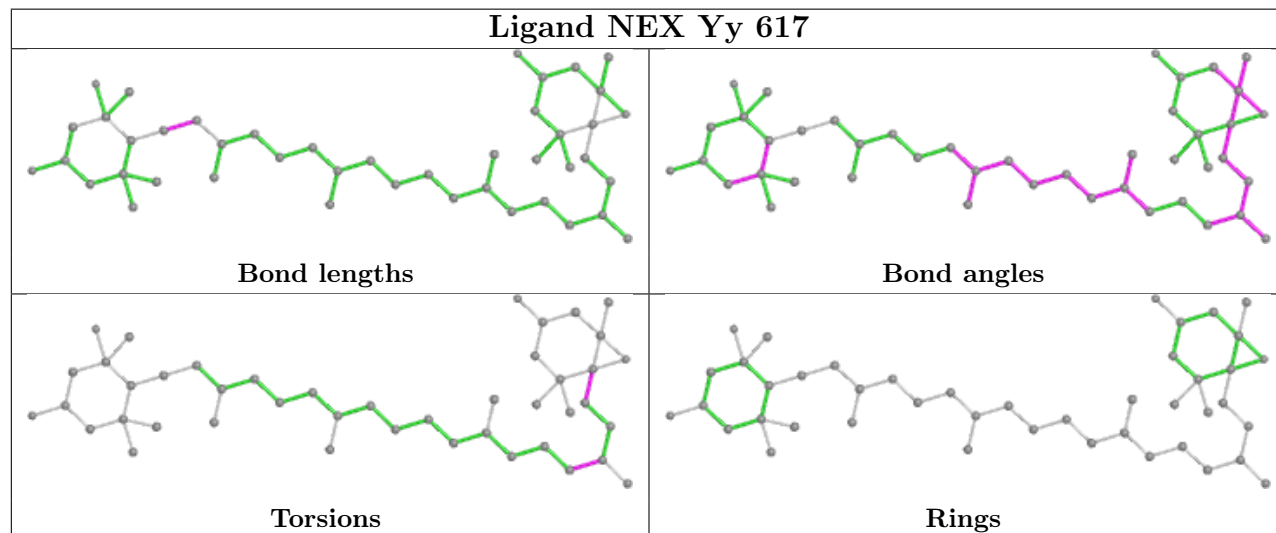
Rings

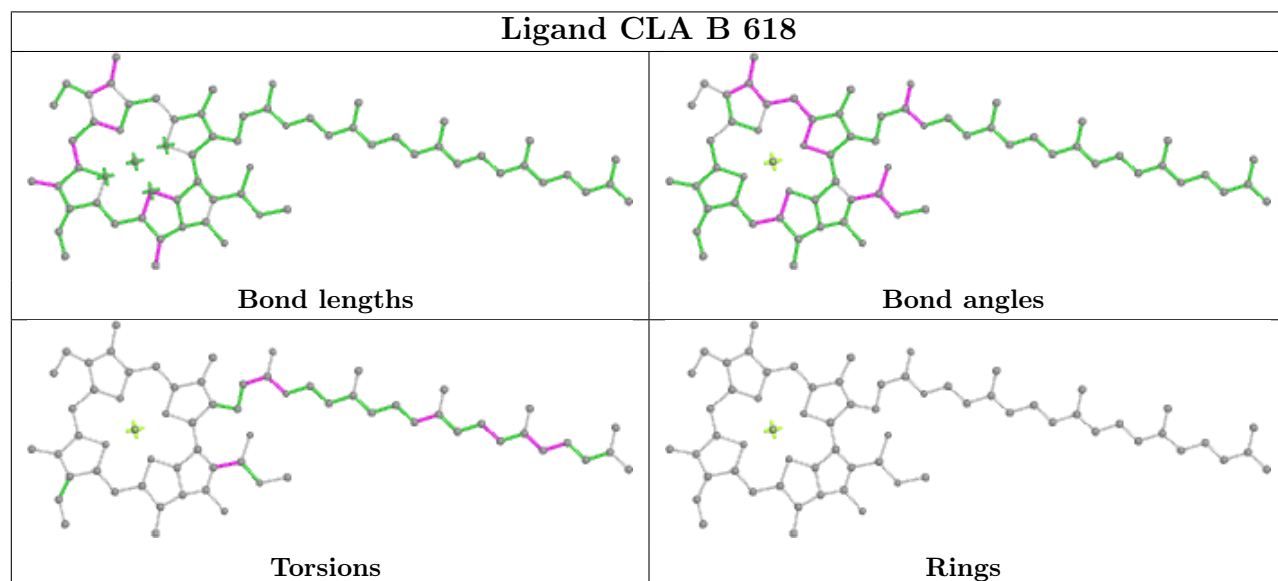
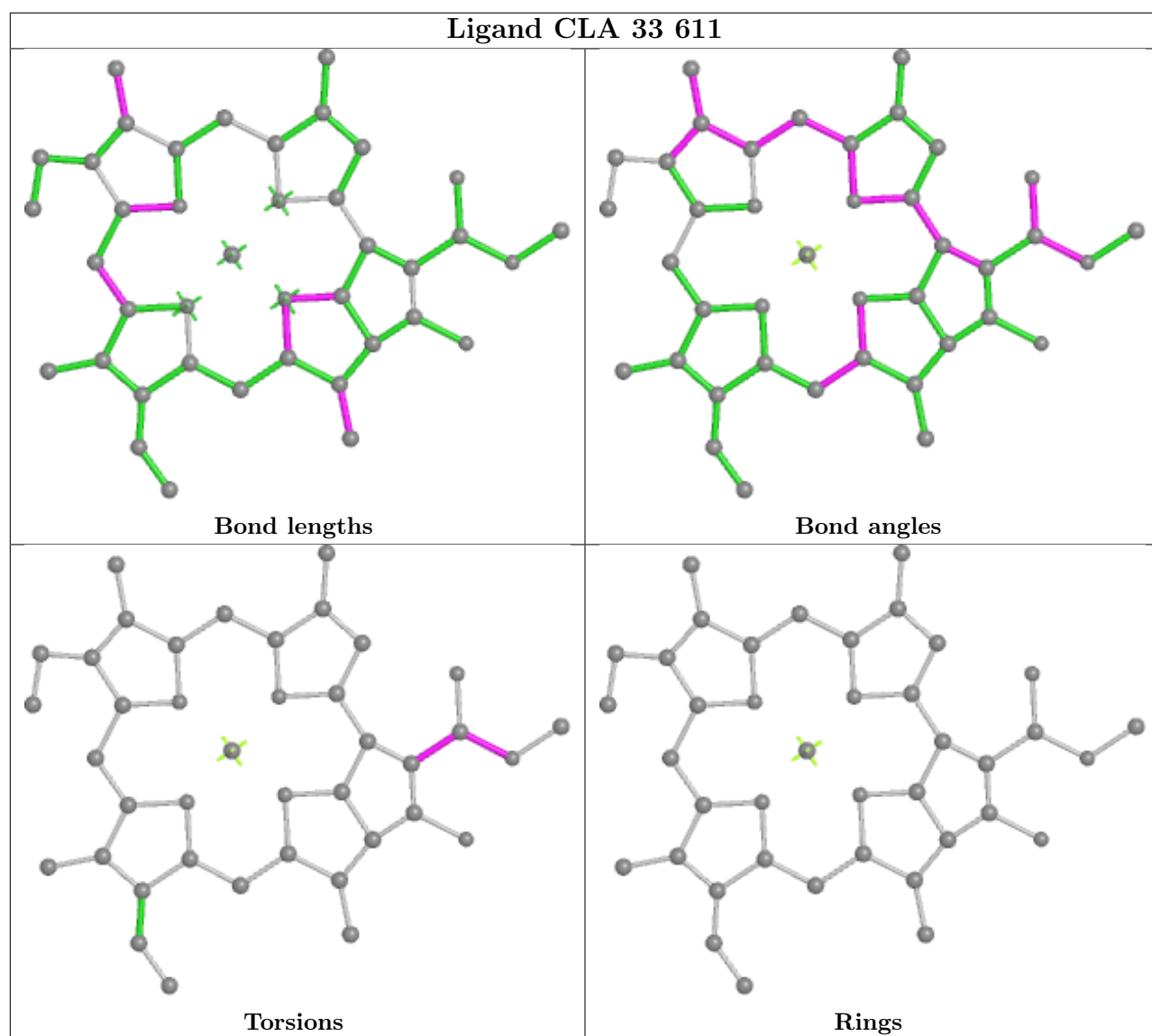


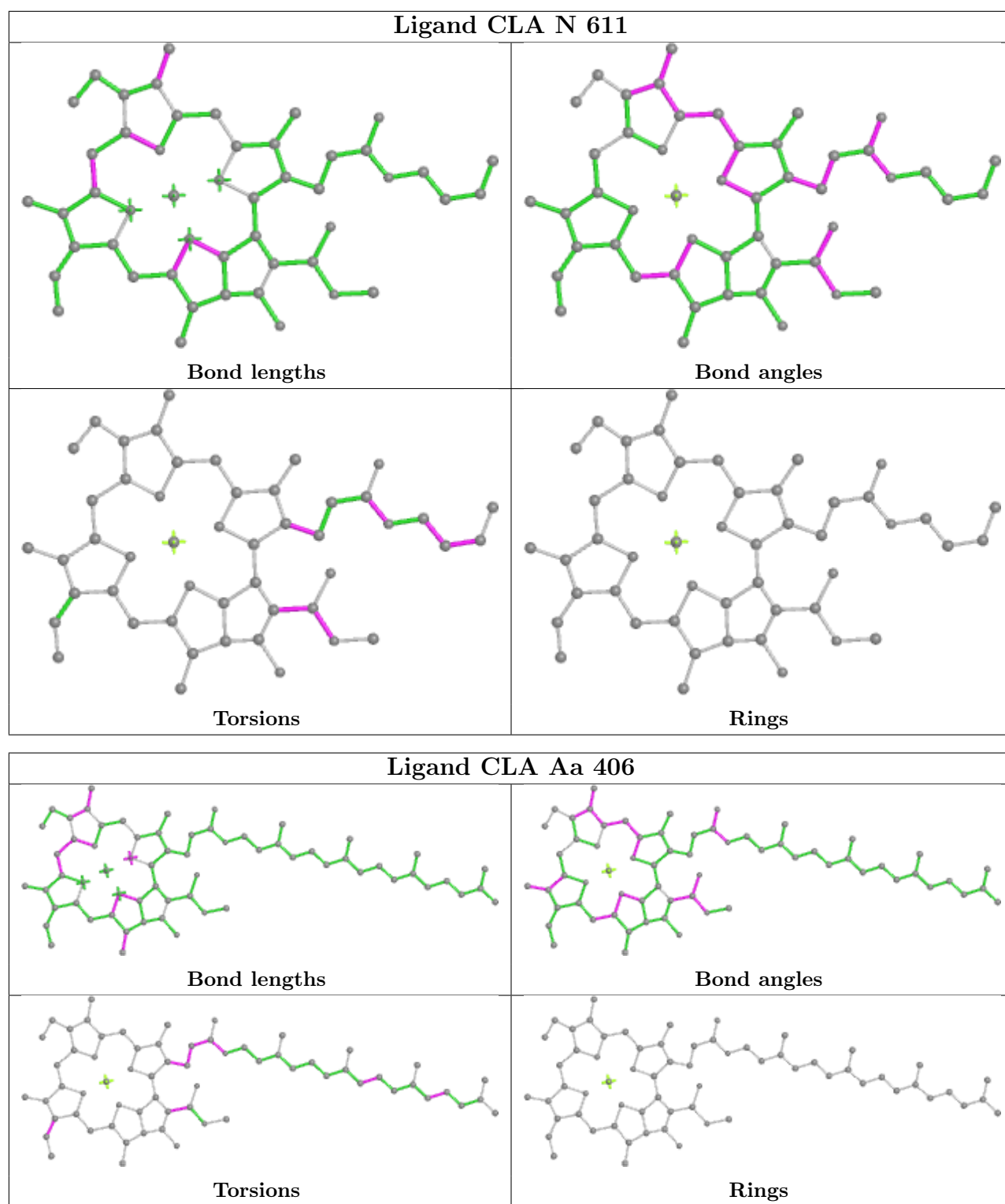
Ligand CLA s 608



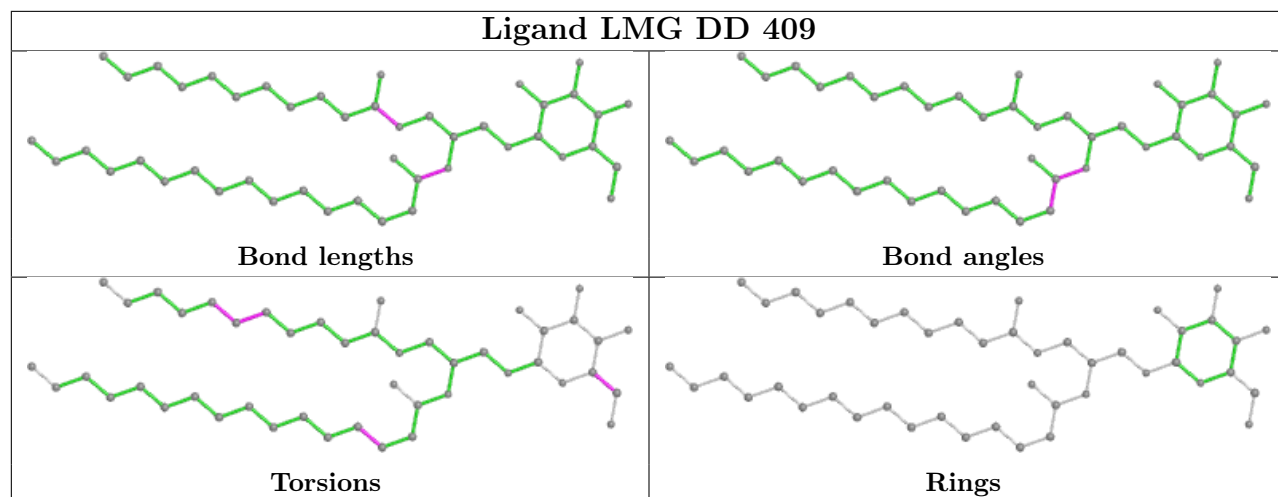
Ligand NEX Yy 617



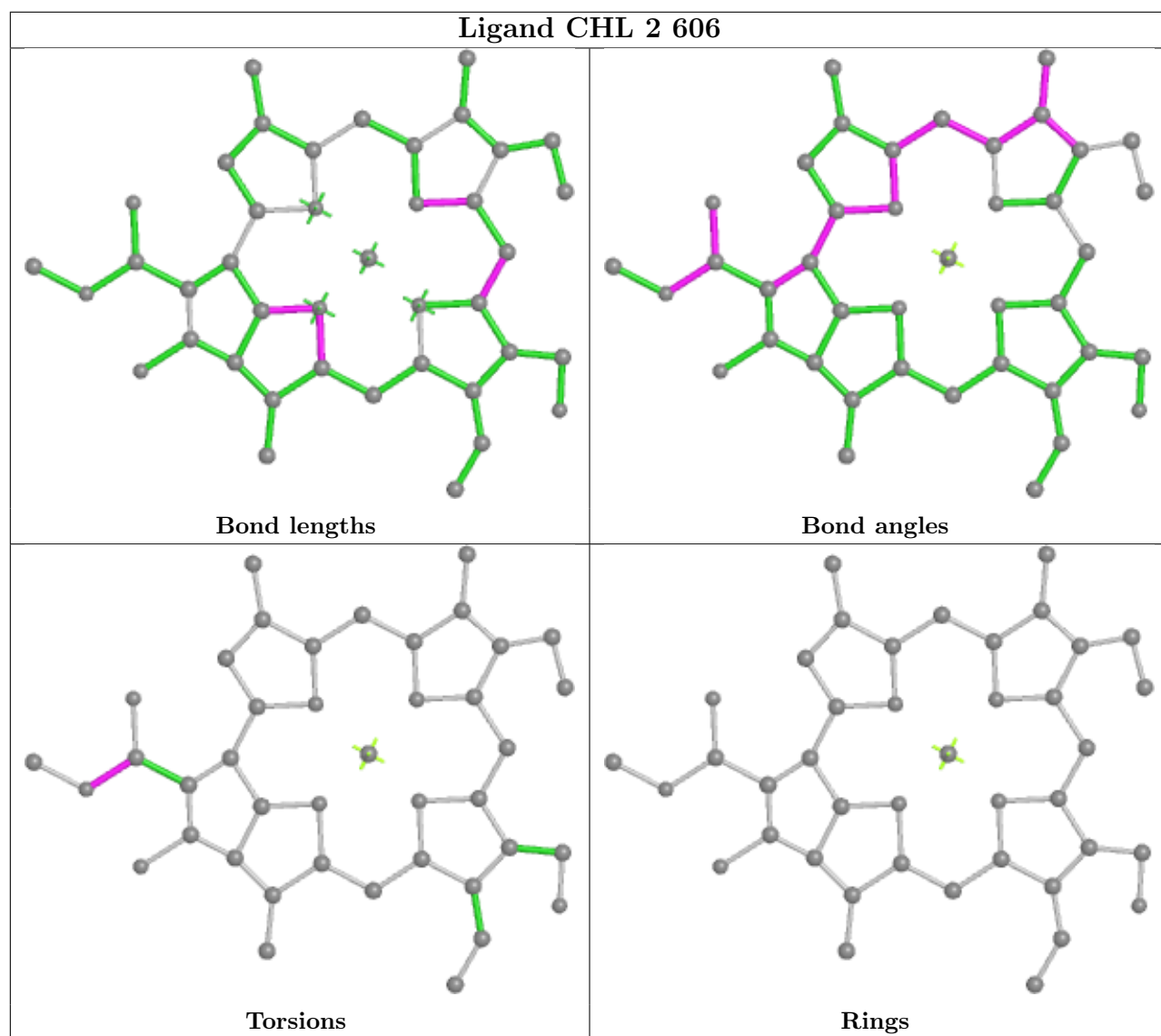




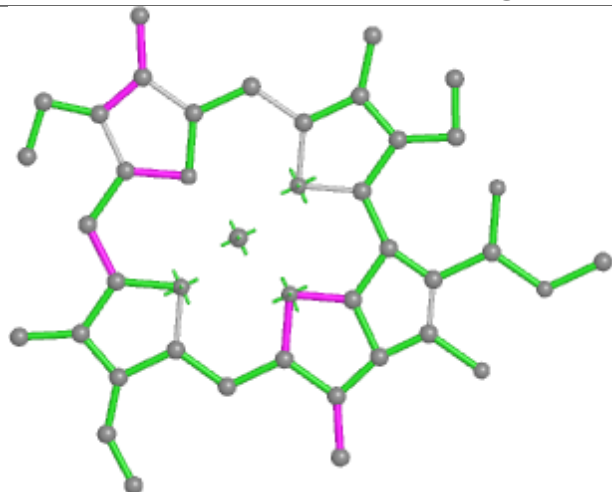
Ligand LMG DD 409



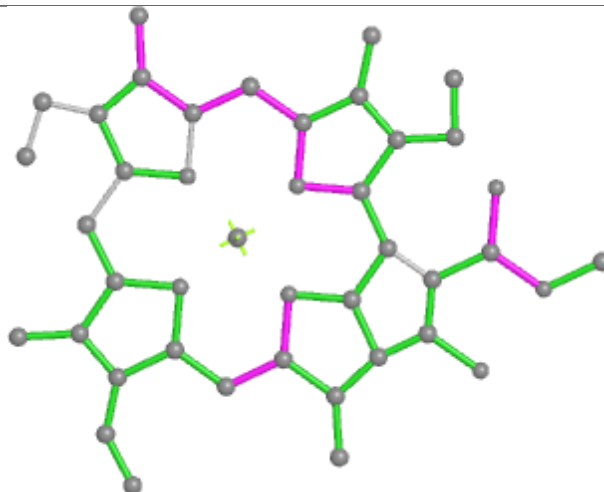
Ligand CHL 2 606



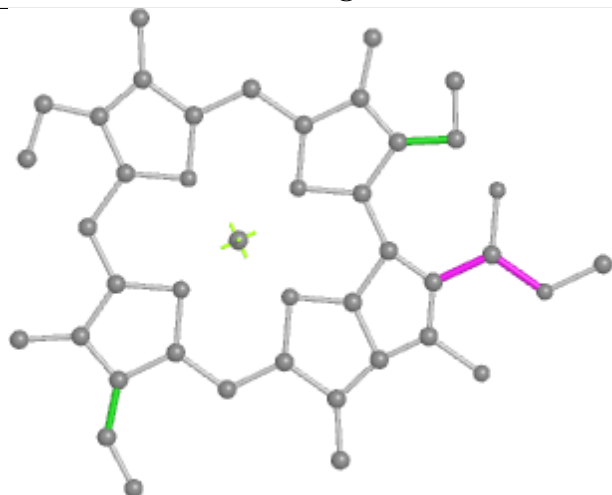
Ligand CLA GG 604



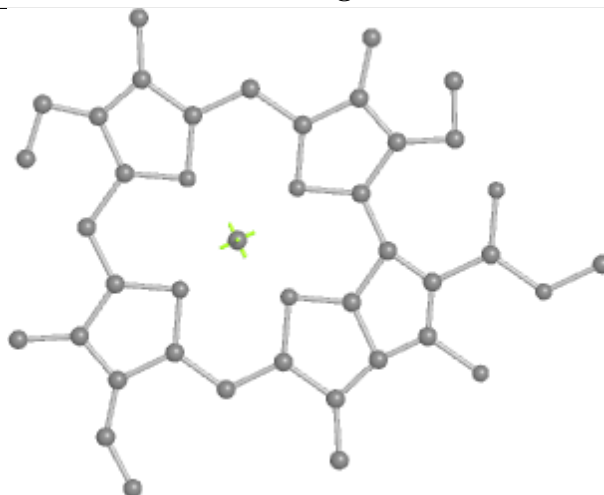
Bond lengths



Bond angles

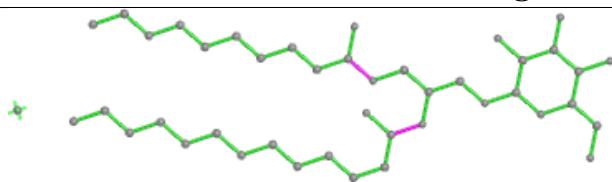


Torsions

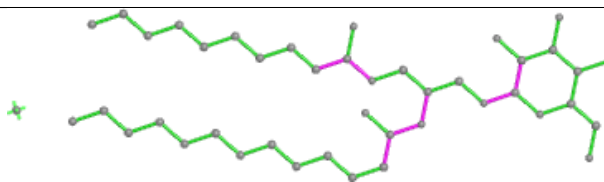


Rings

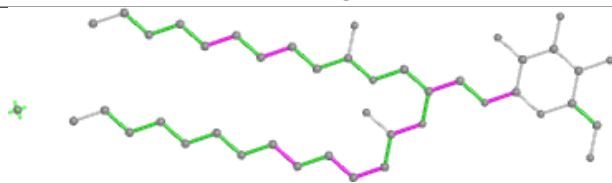
Ligand LMG a 412



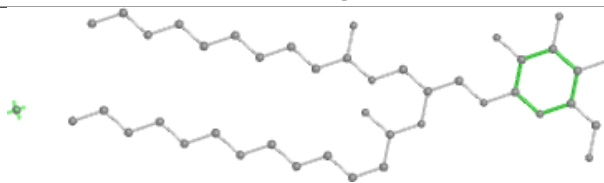
Bond lengths



Bond angles

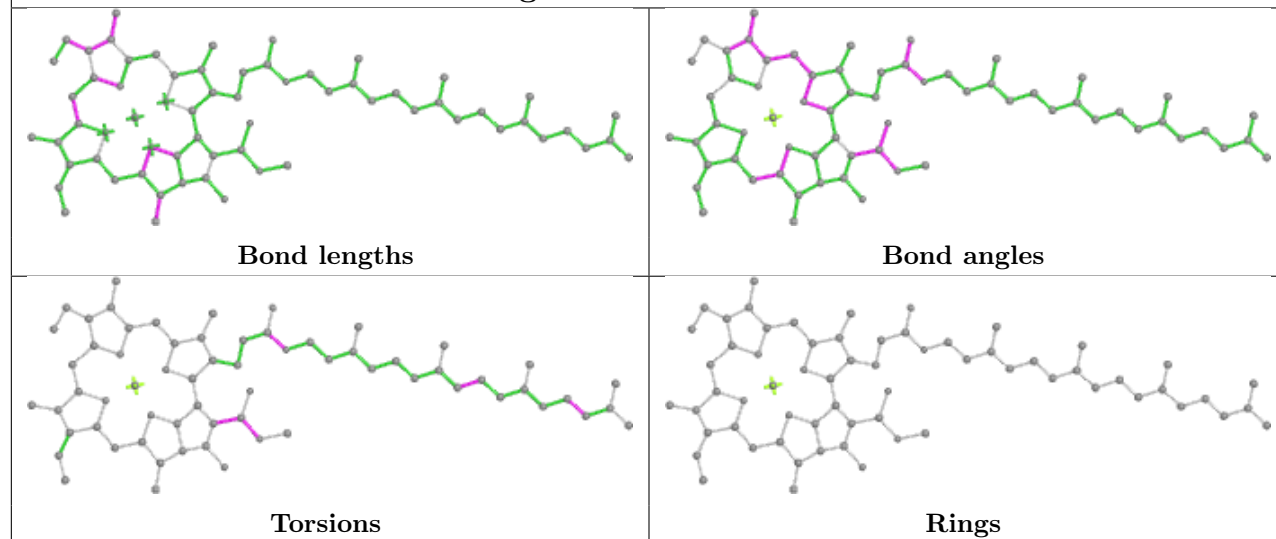


Torsions

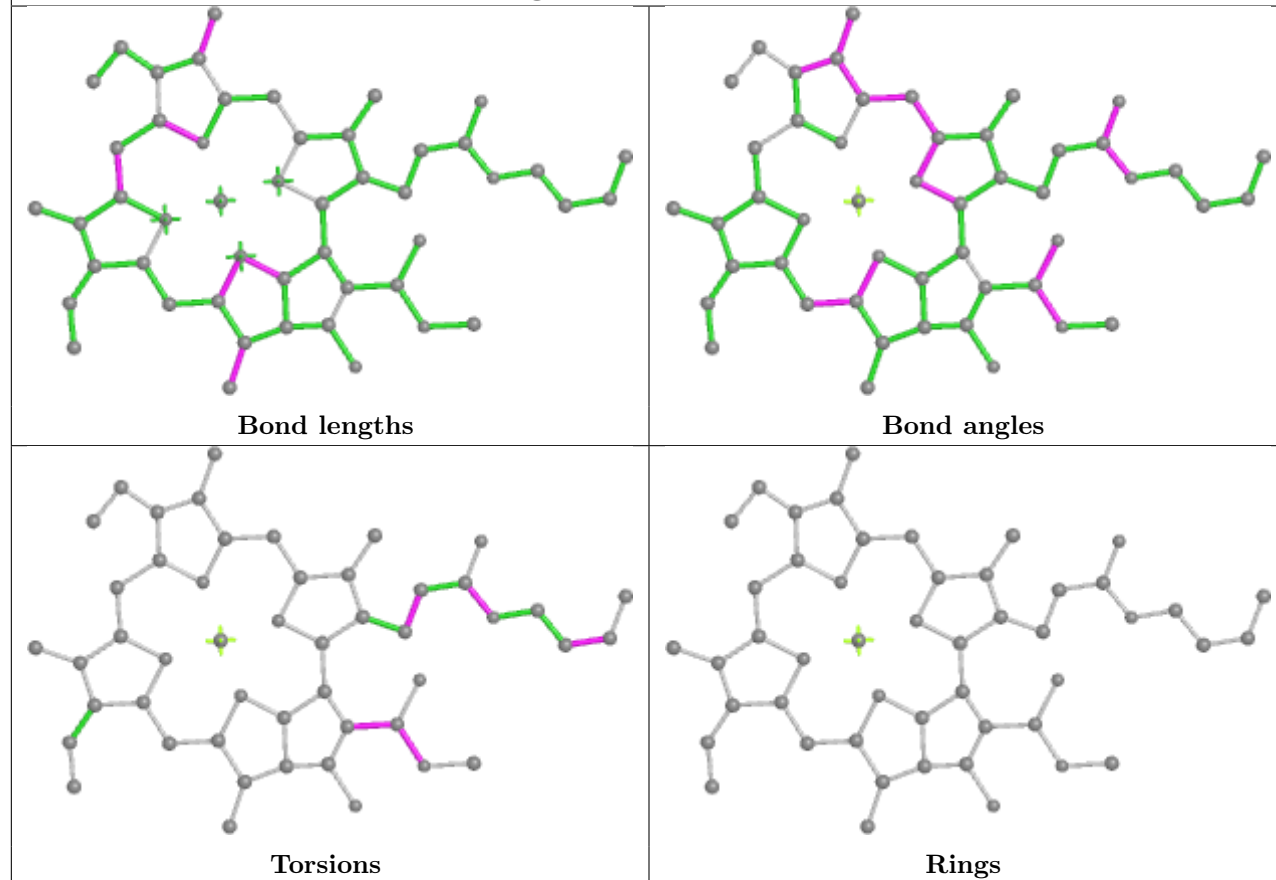


Rings

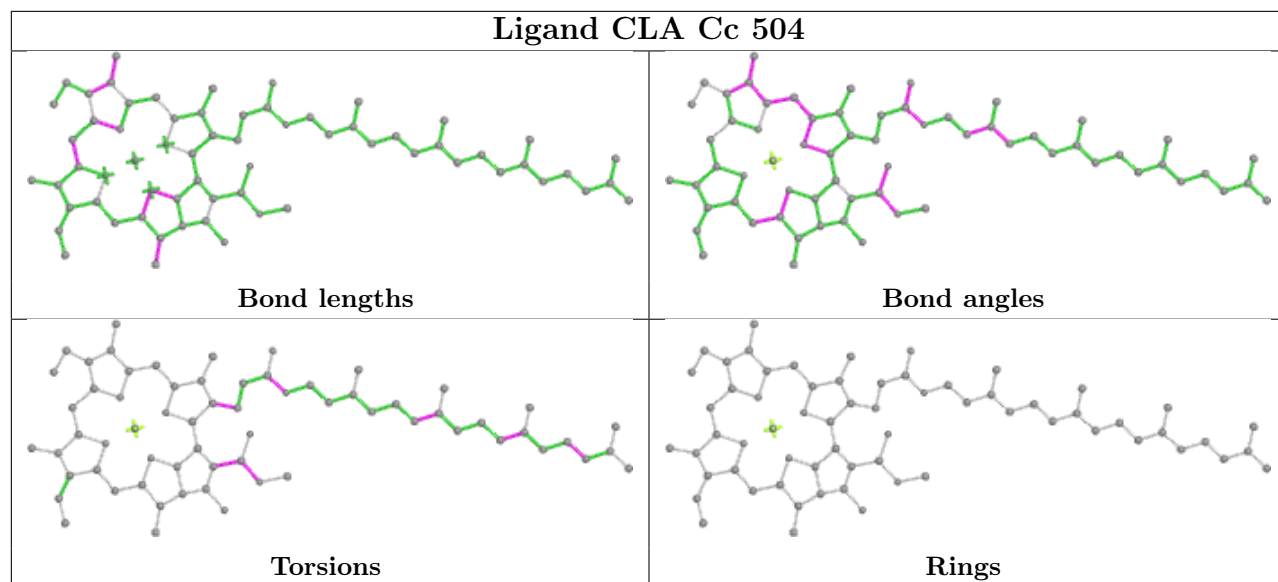
Ligand CLA CC 505



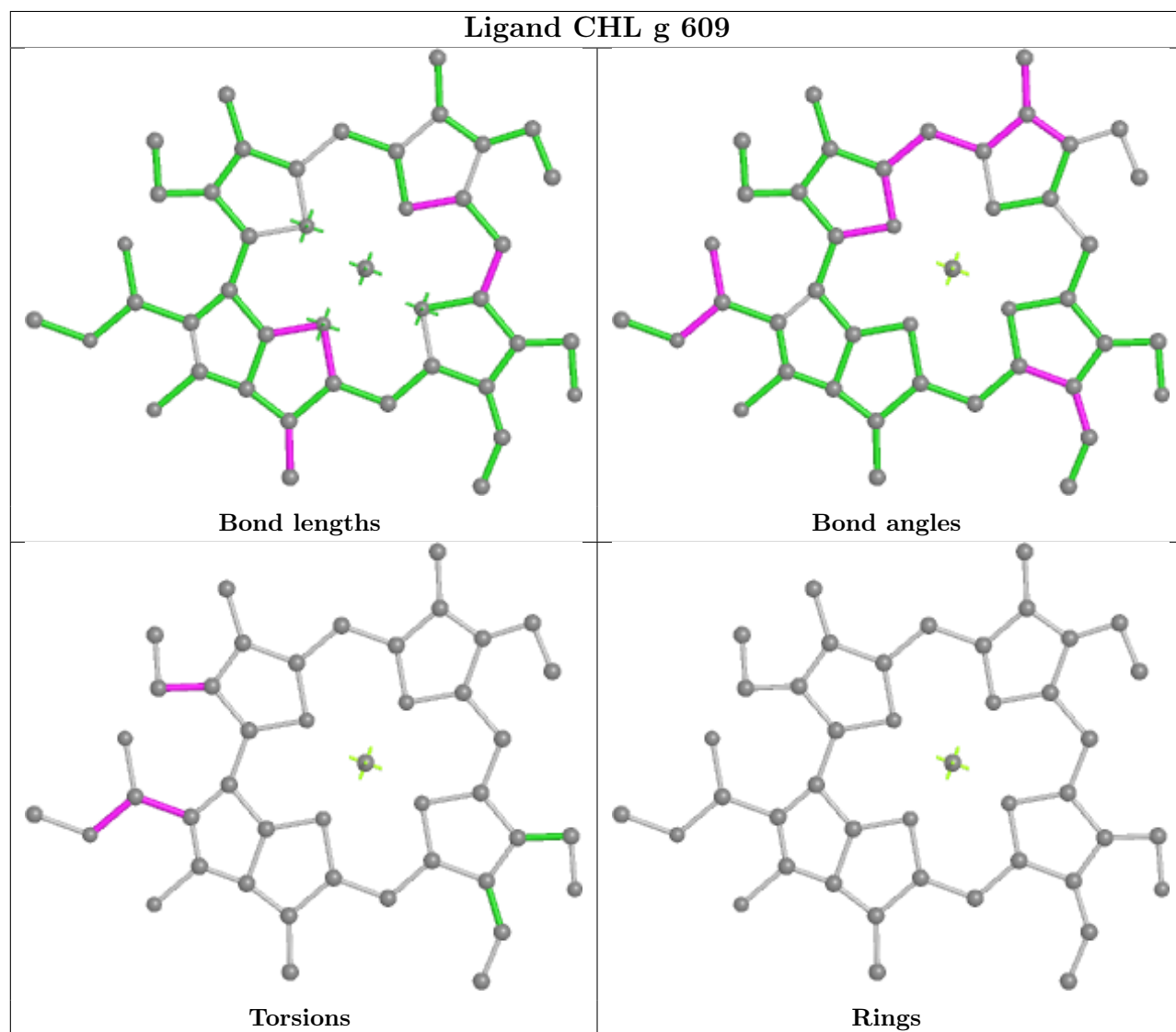
Ligand CLA Ss 613



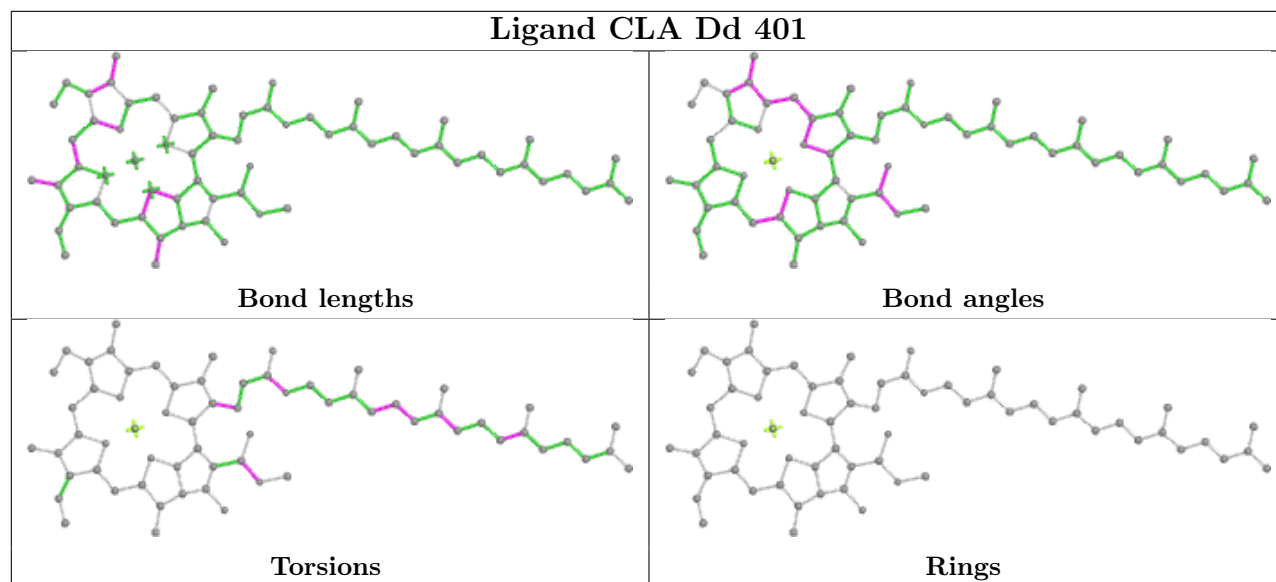
Ligand CLA Cc 504



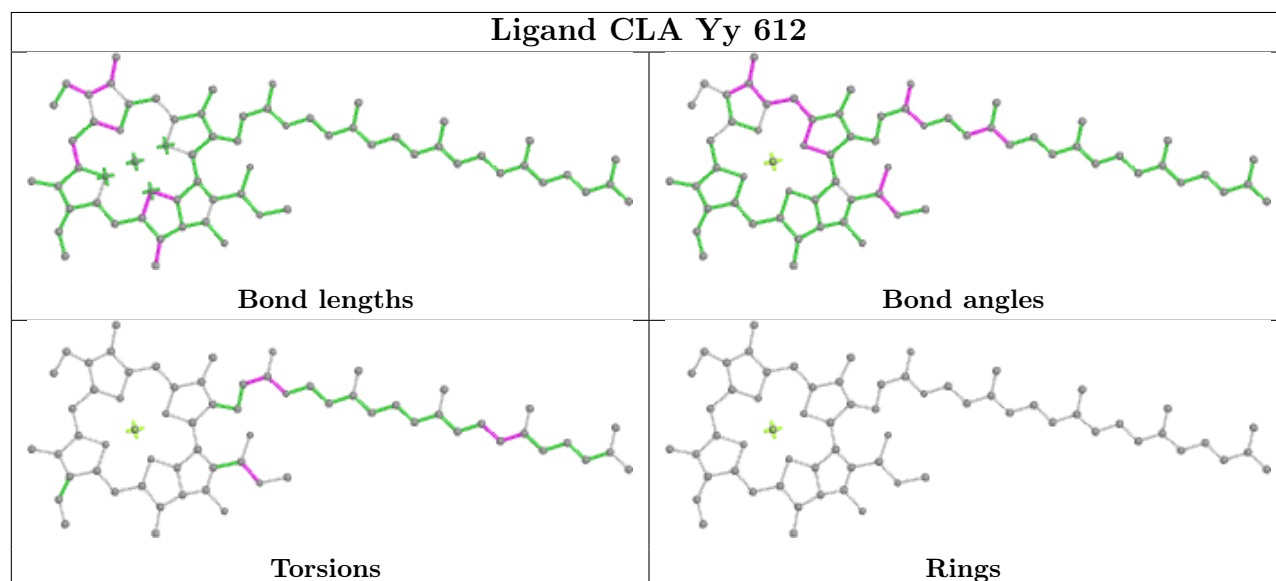
Ligand CHL g 609



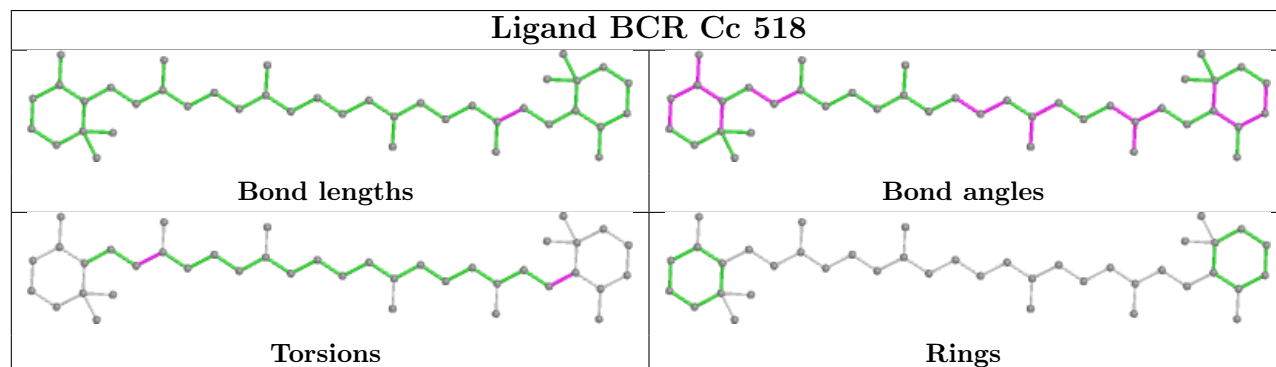
Ligand CLA Dd 401



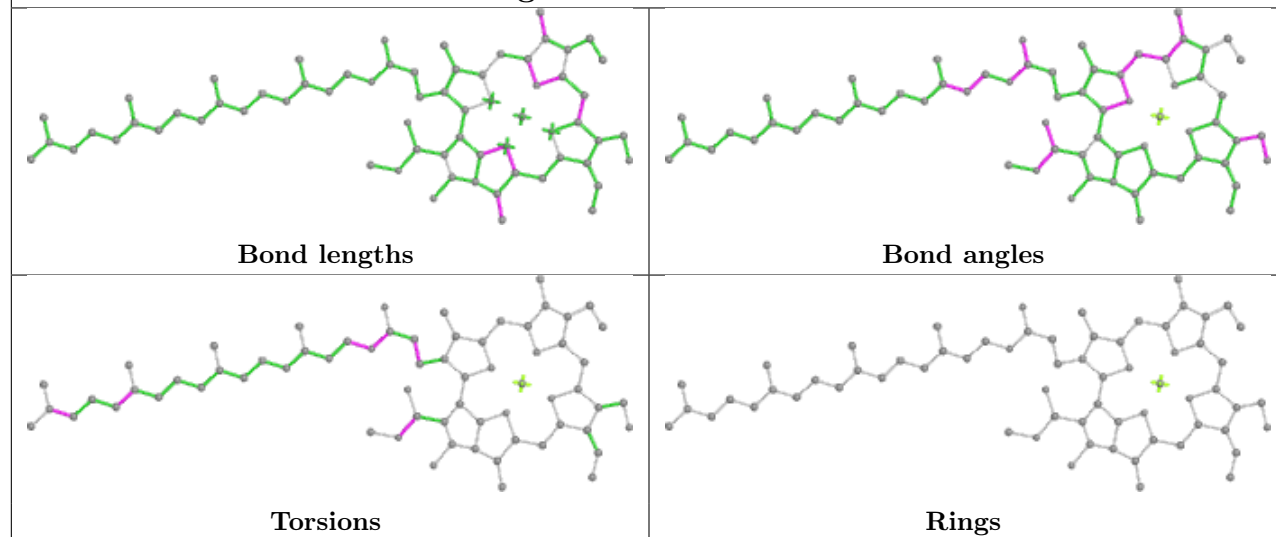
Ligand CLA Yy 612



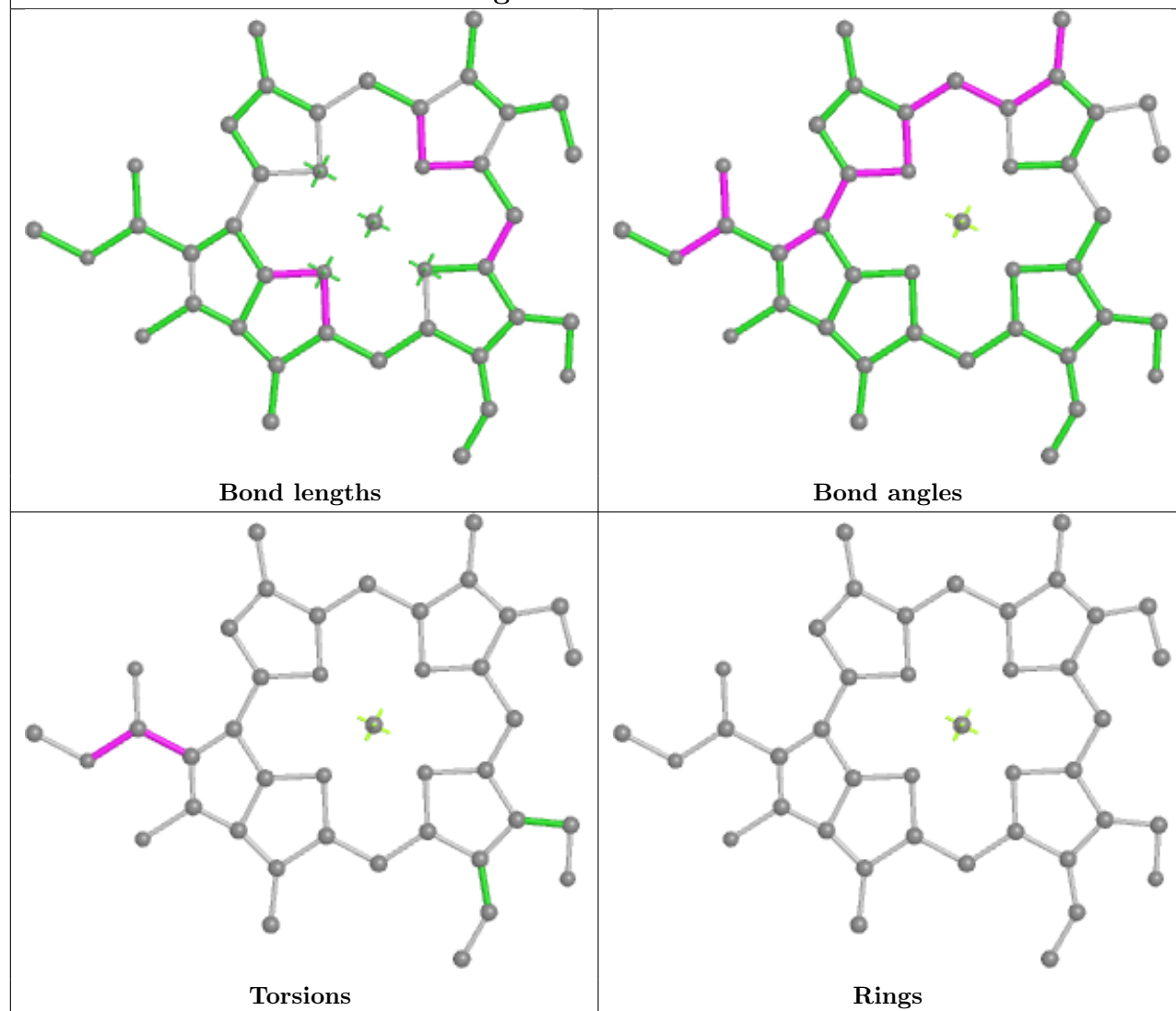
Ligand BCR Cc 518

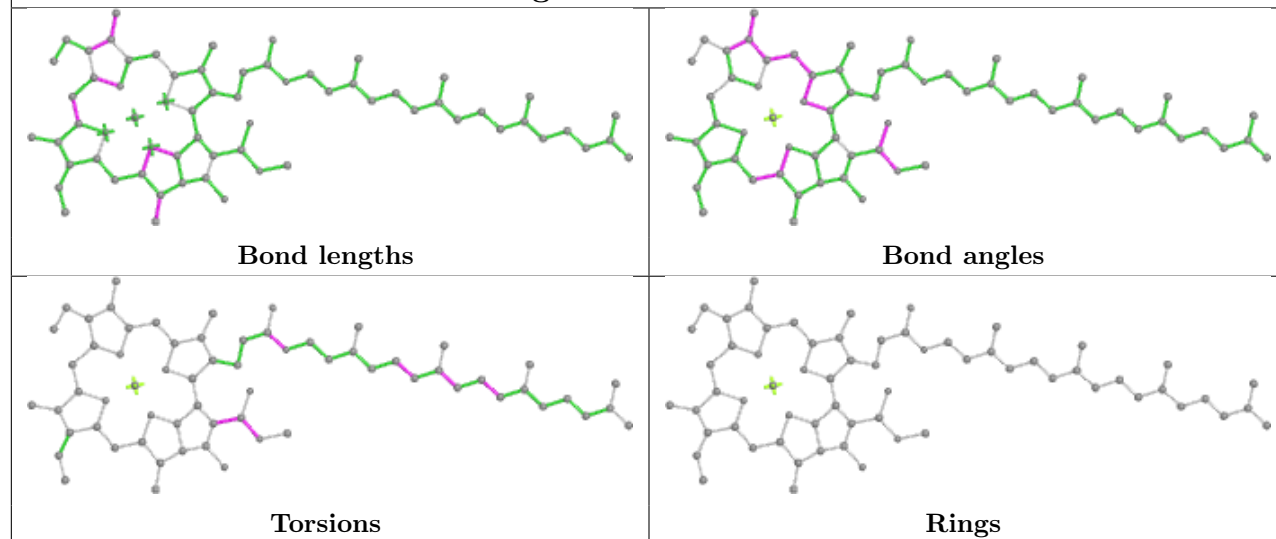
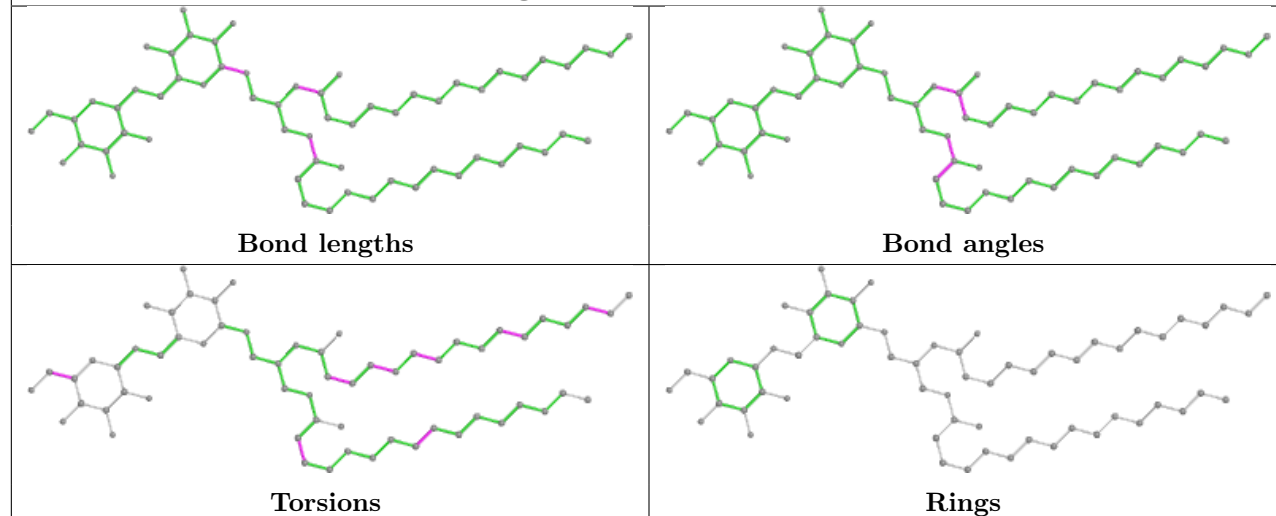


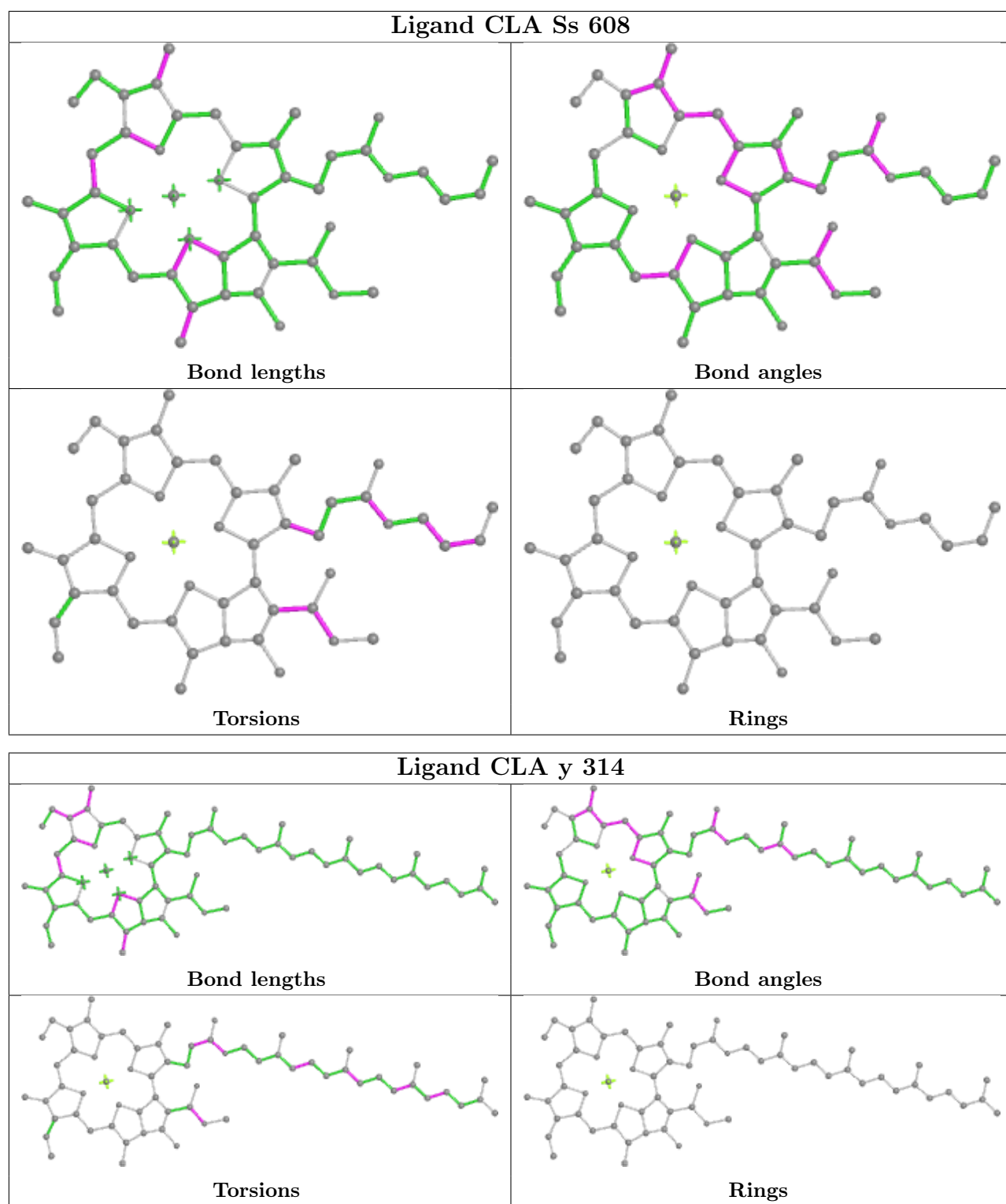
Ligand CHL YY 609



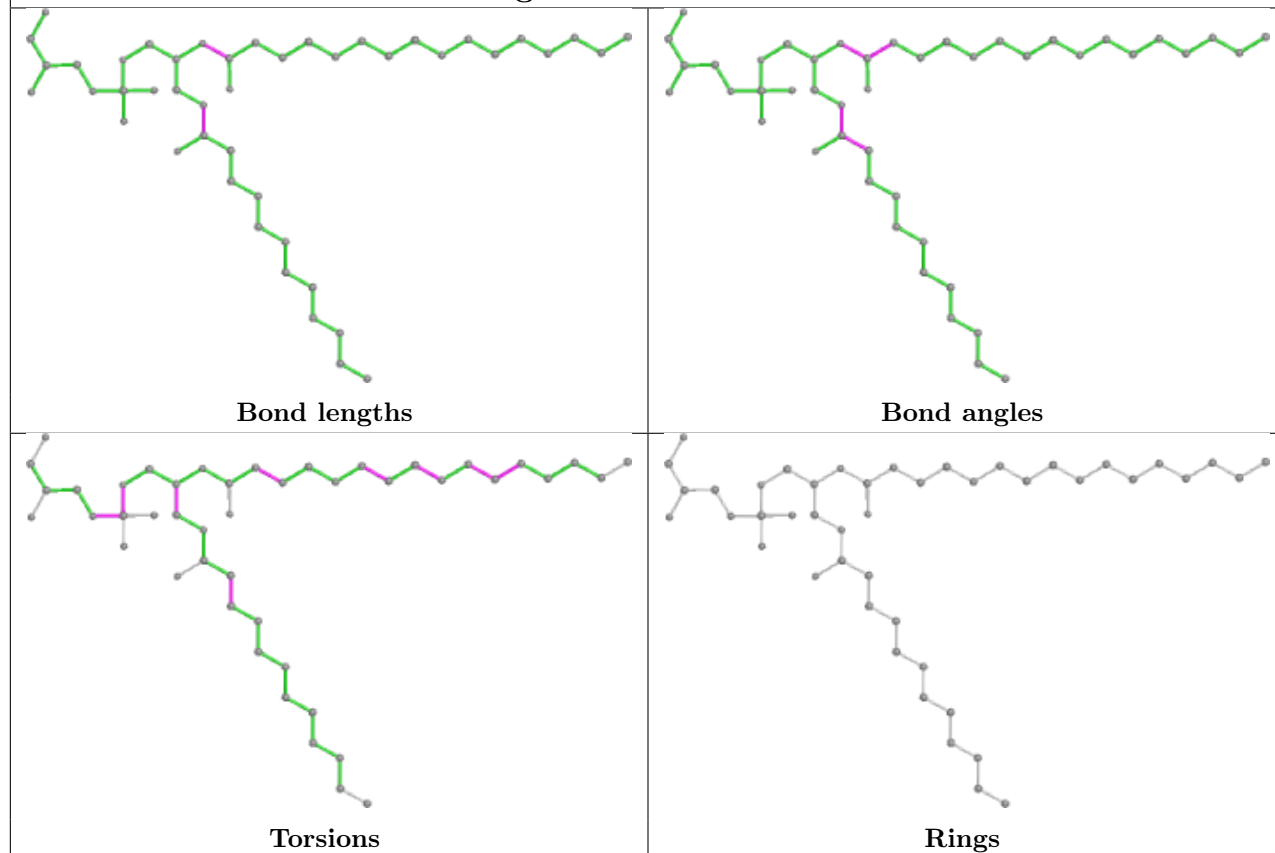
Ligand CHL 2 607



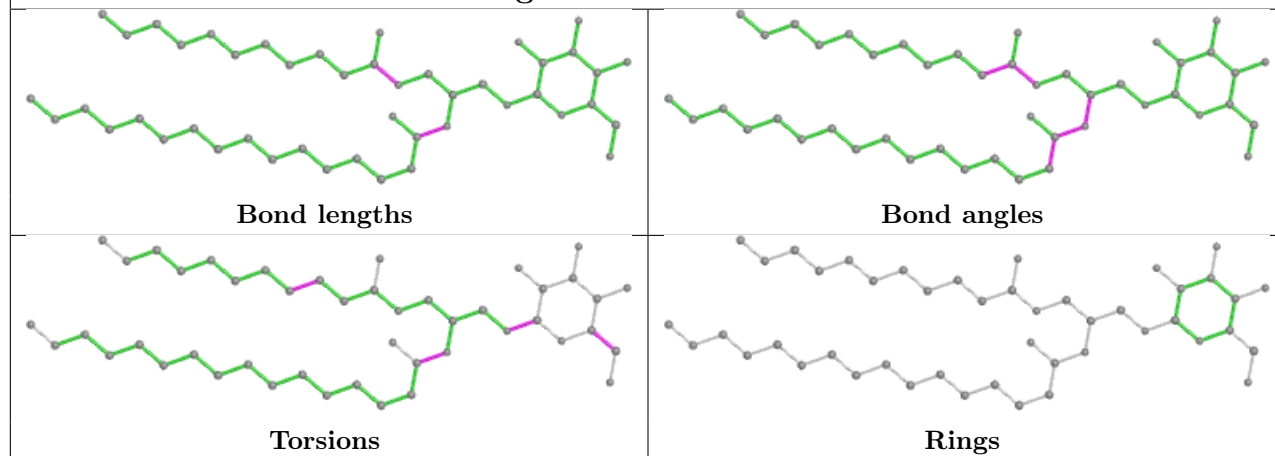
Ligand CLA B 623**Ligand DGD BB 623**

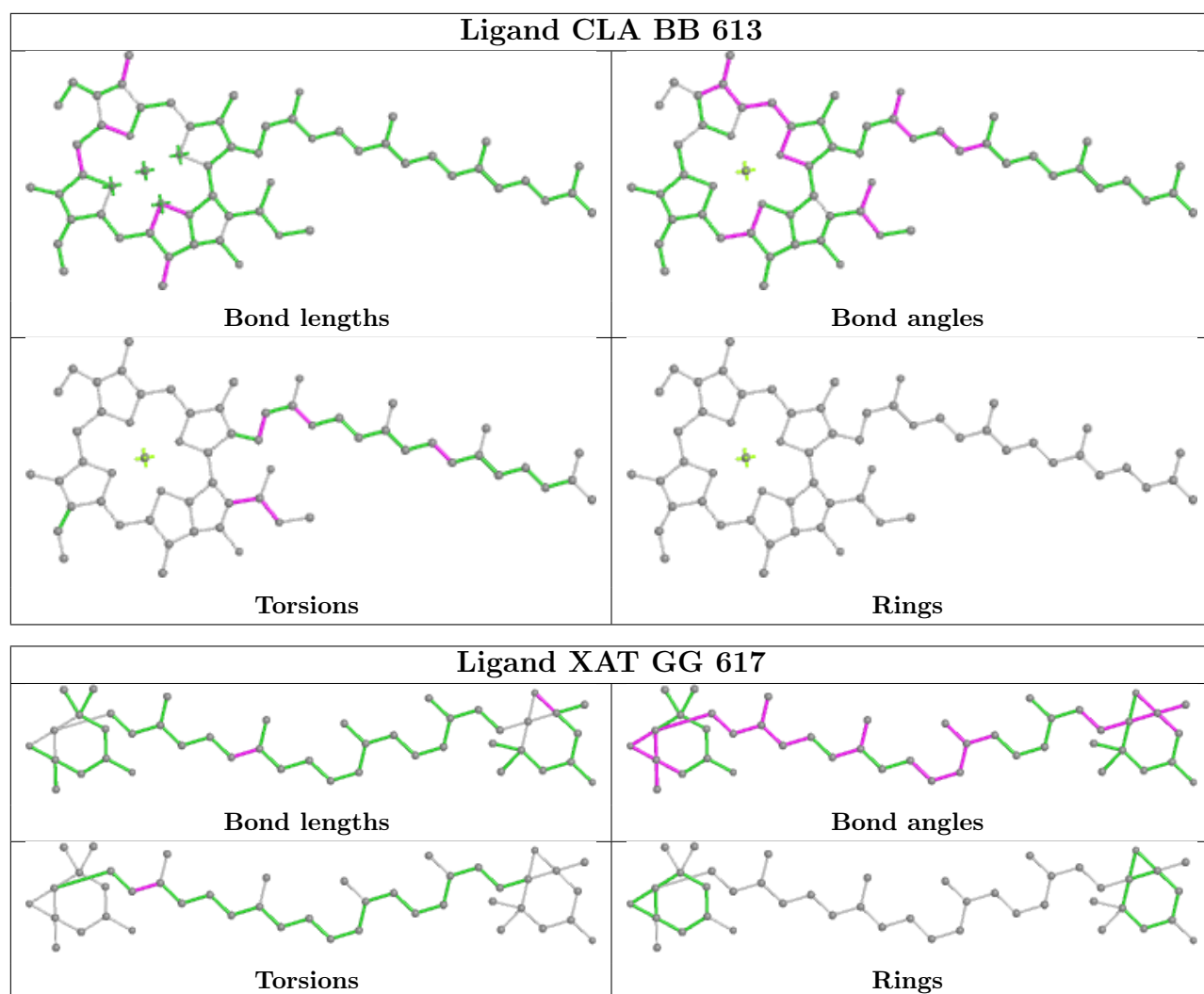


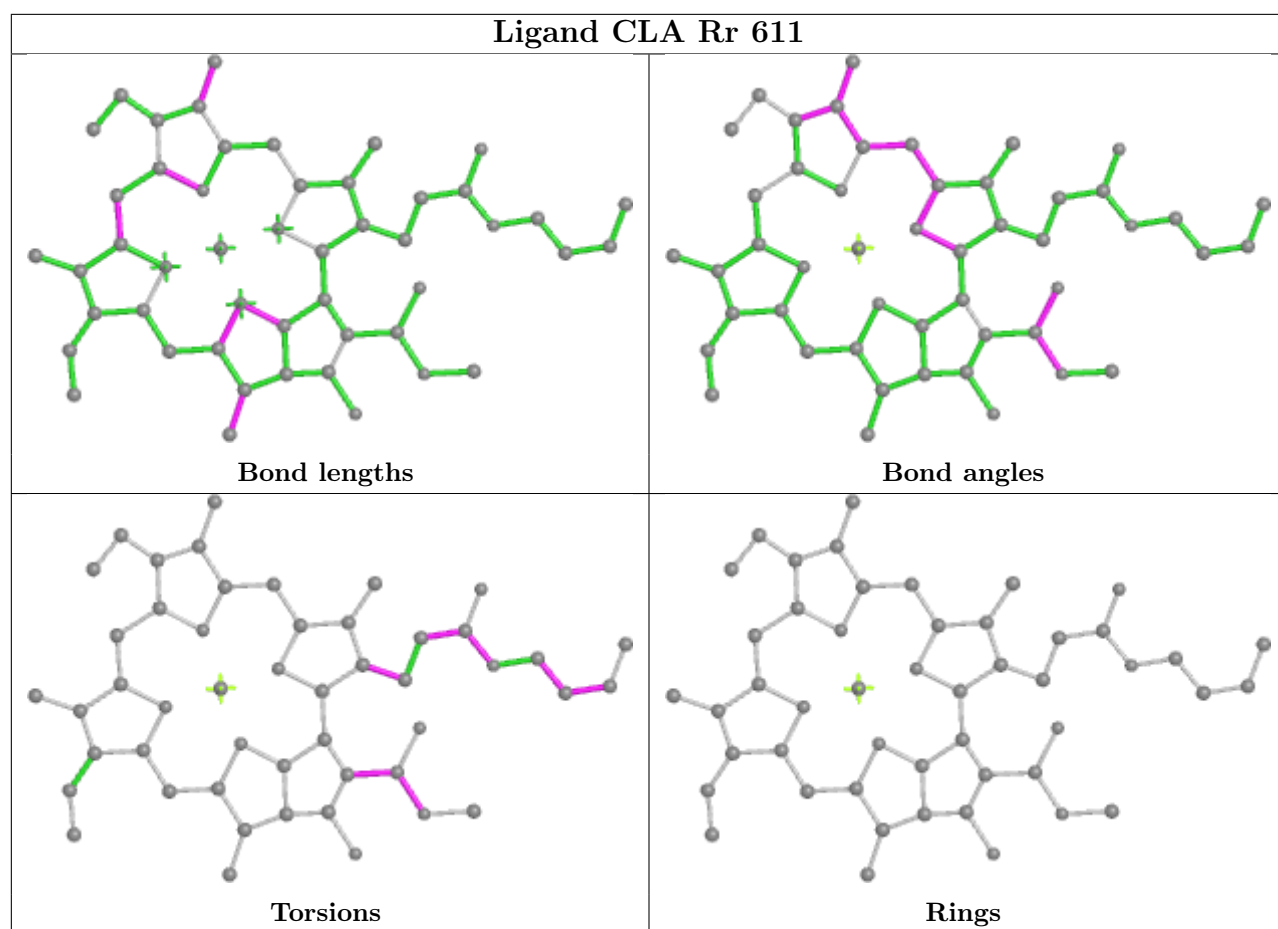
Ligand LHG AA 414



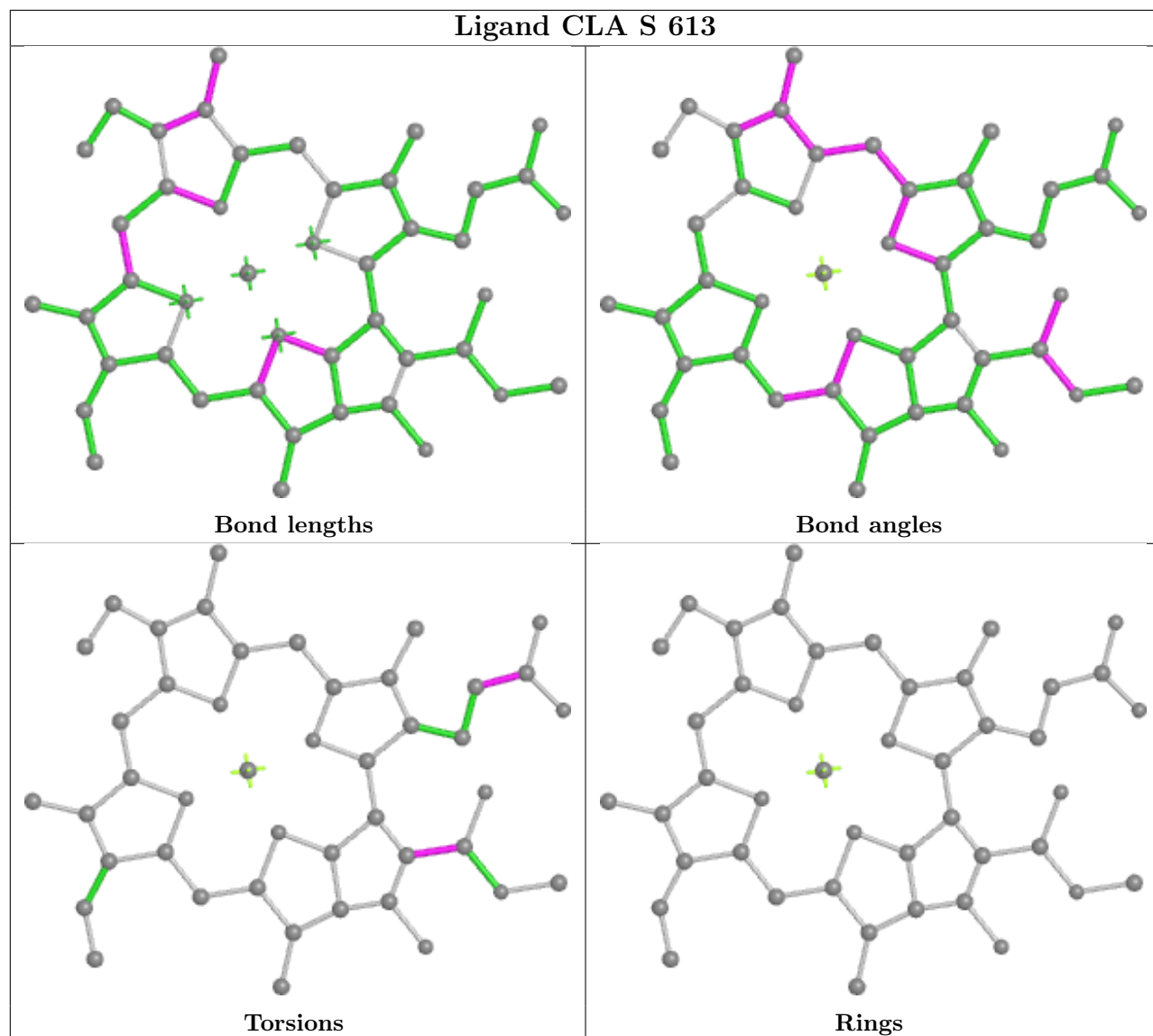
Ligand LMG Dd 408



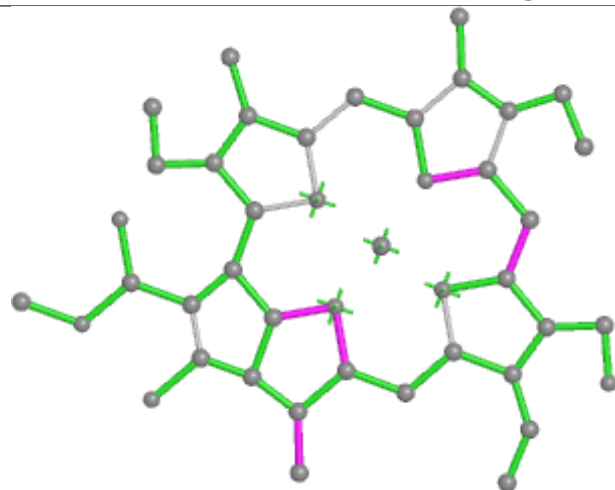




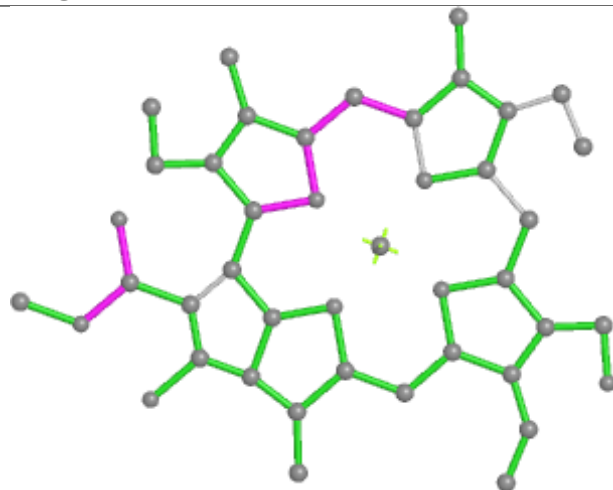
Ligand CLA S 613



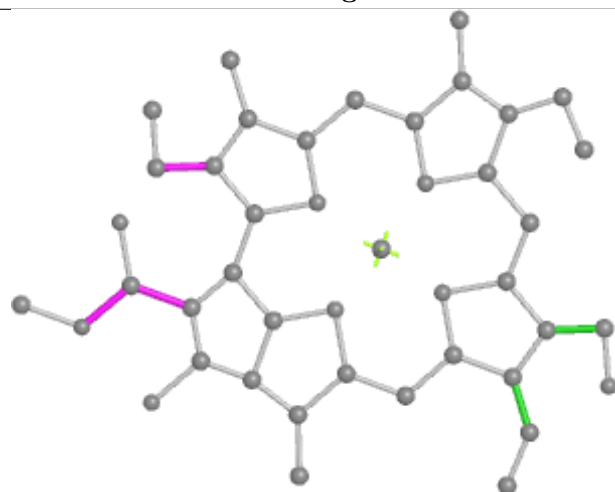
Ligand CHL g 606



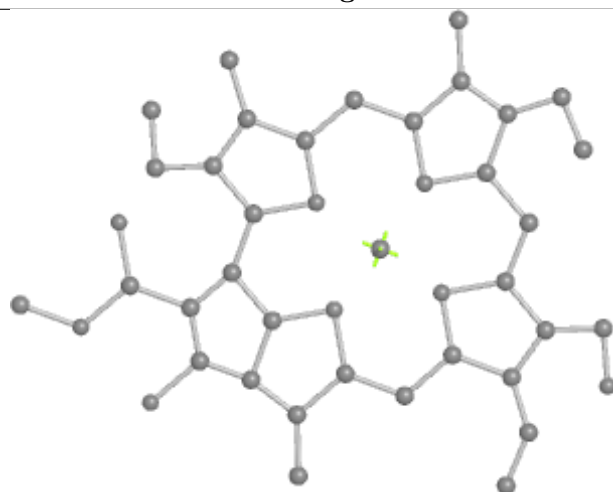
Bond lengths



Bond angles

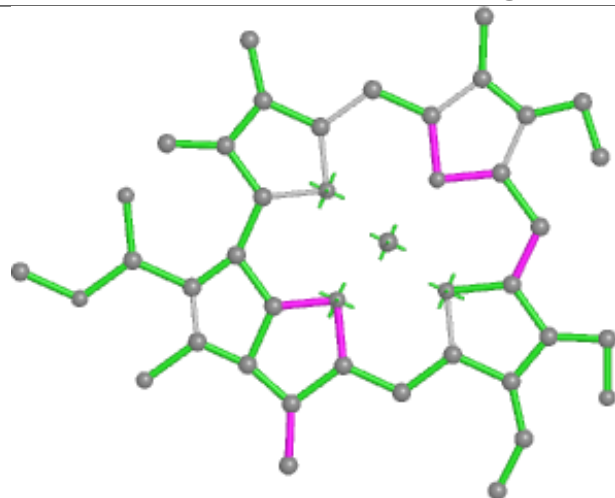


Torsions

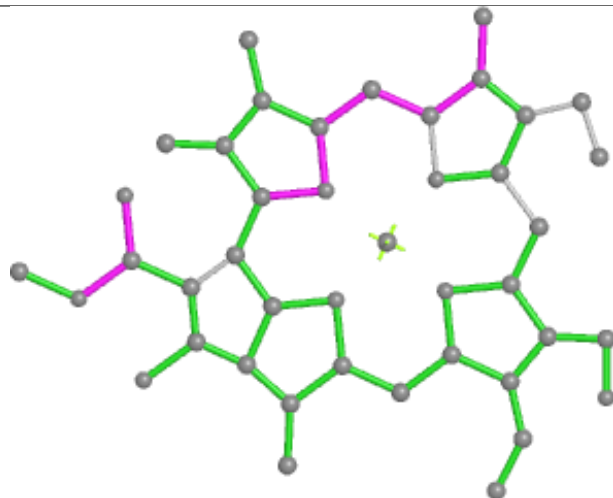


Rings

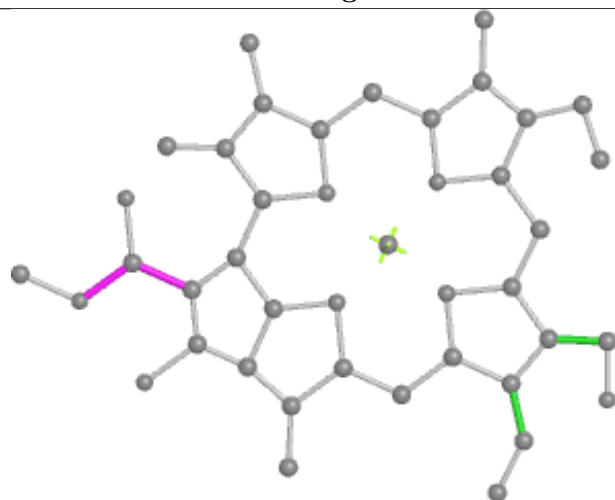
Ligand CHL NN 608



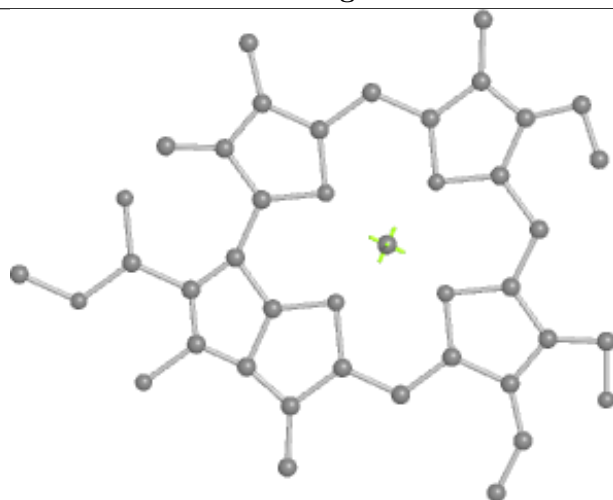
Bond lengths



Bond angles

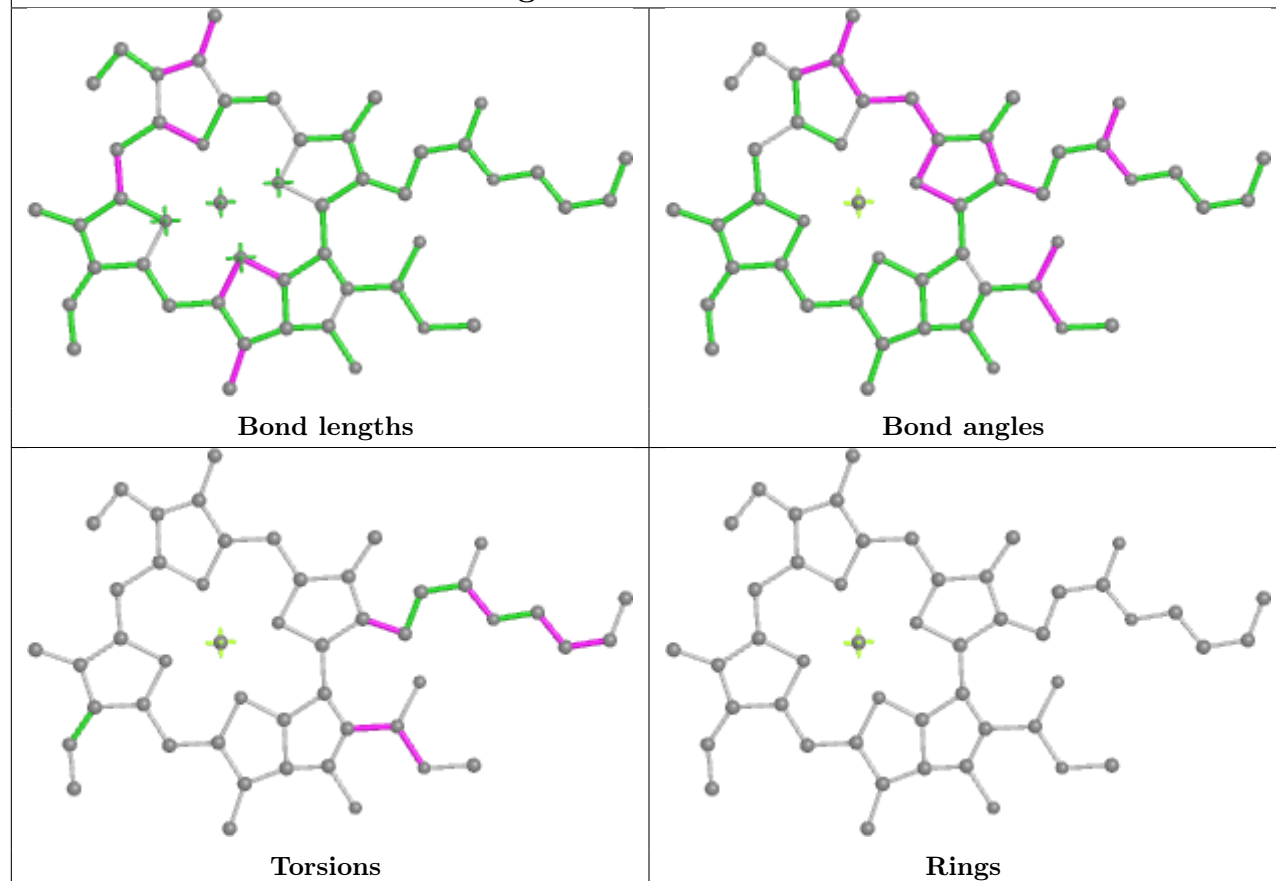


Torsions

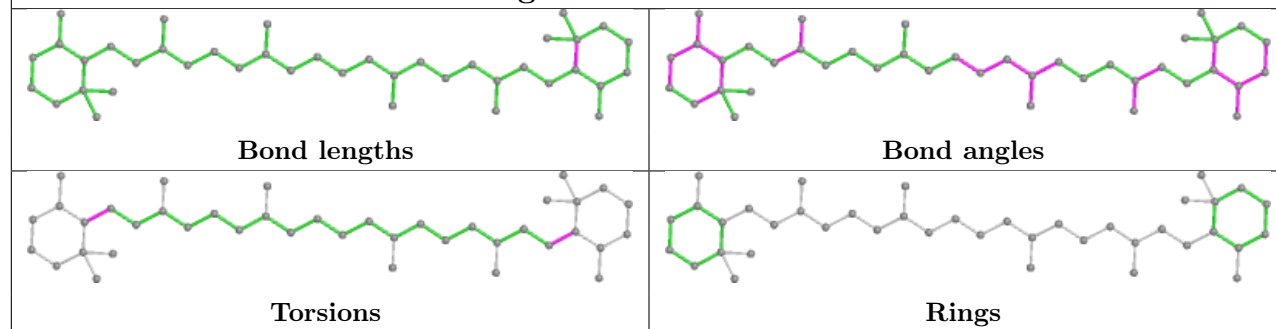


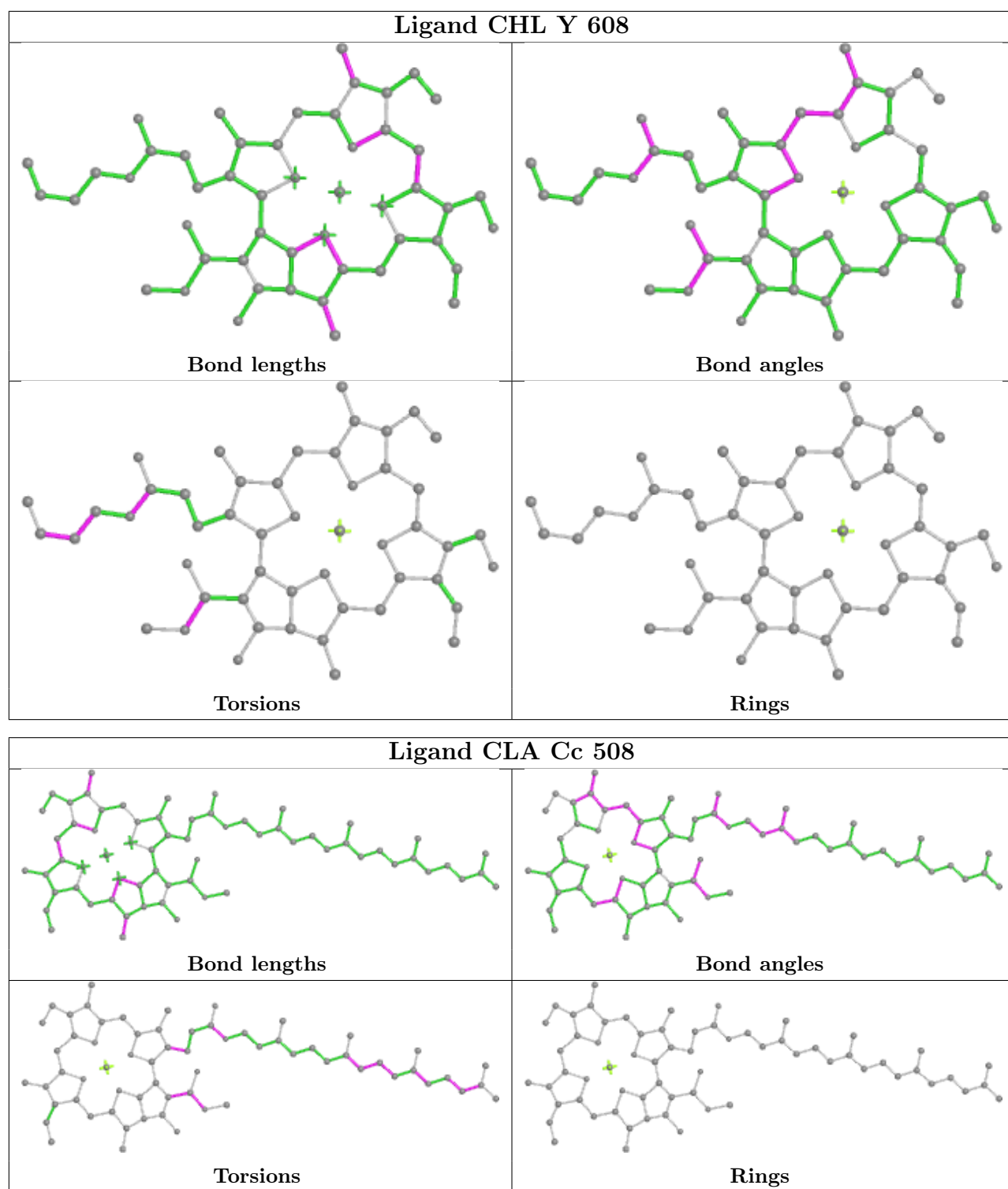
Rings

Ligand CLA YY 614

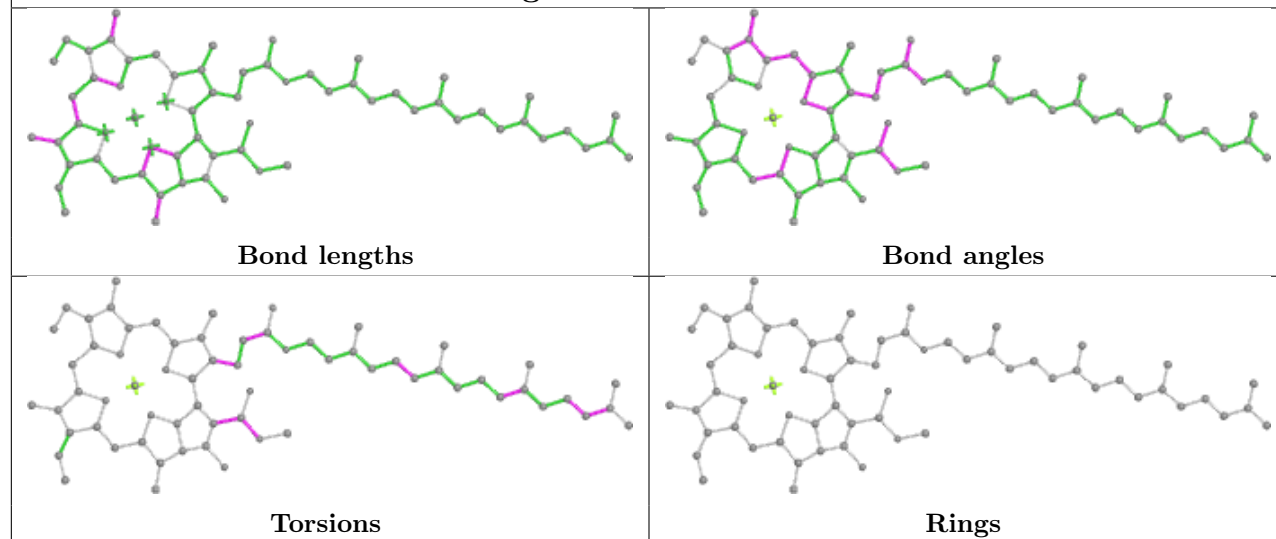


Ligand BCR BB 616

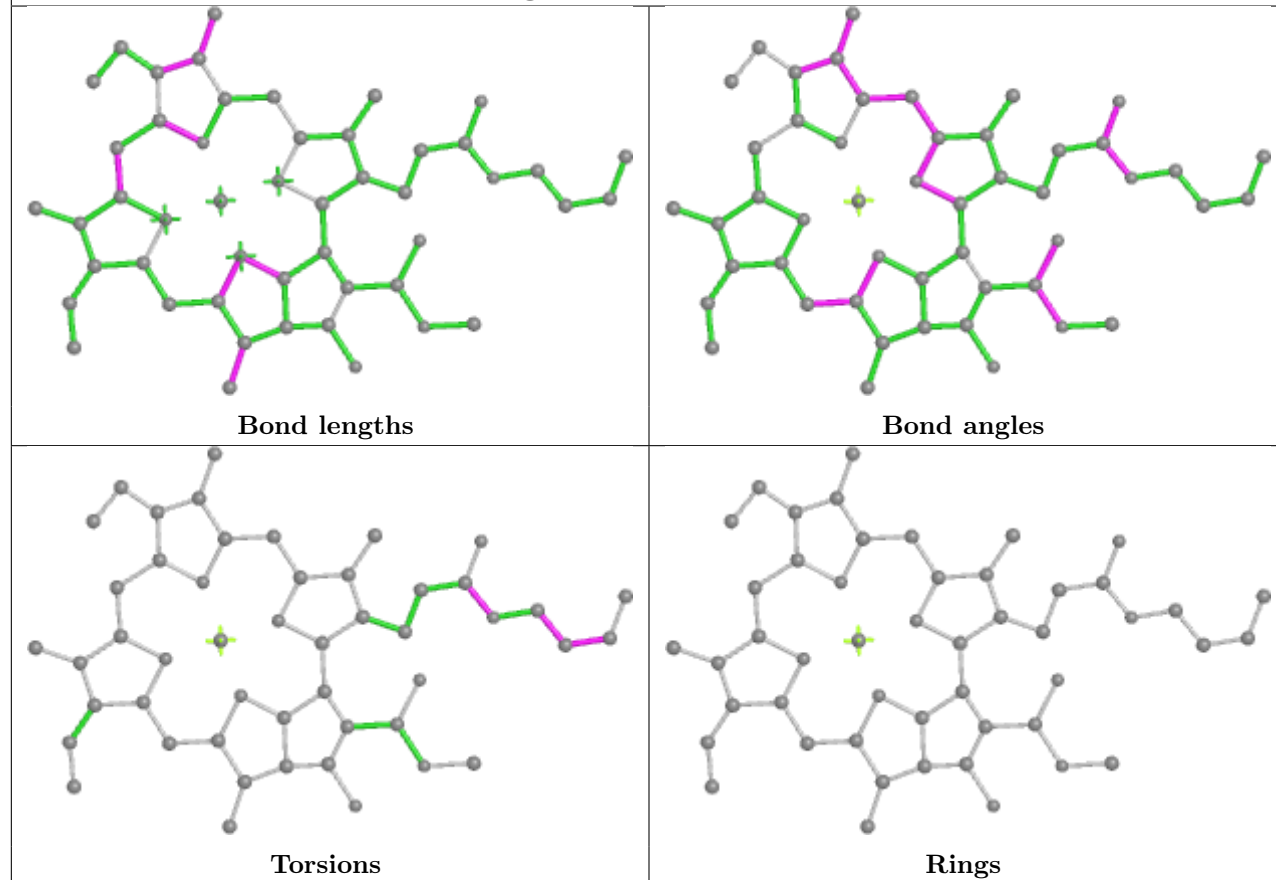


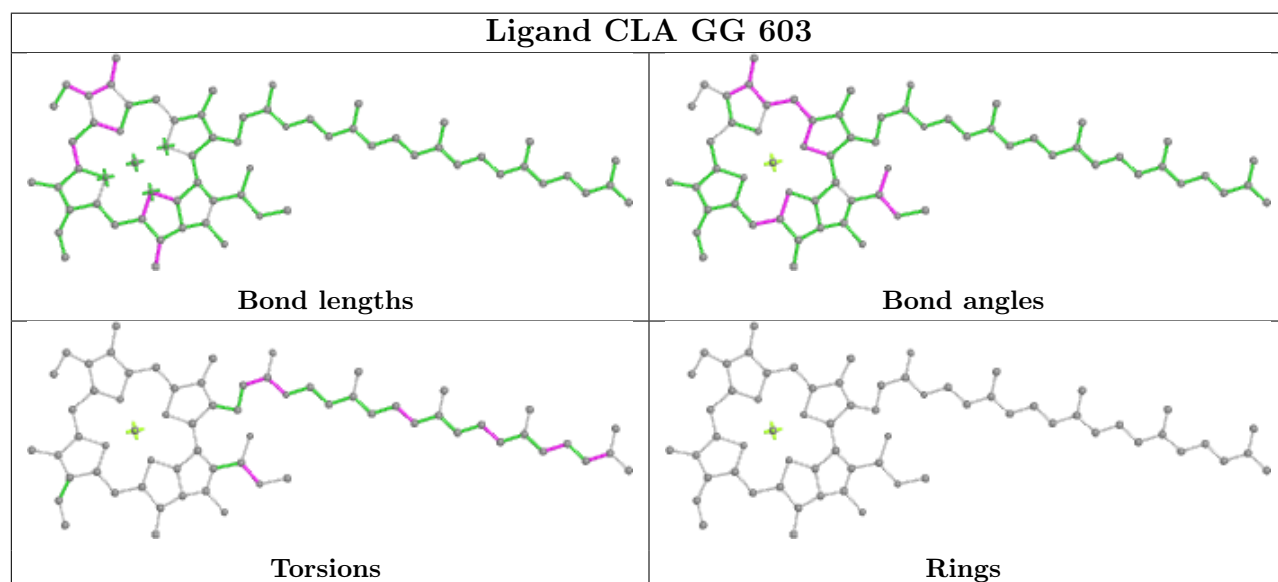
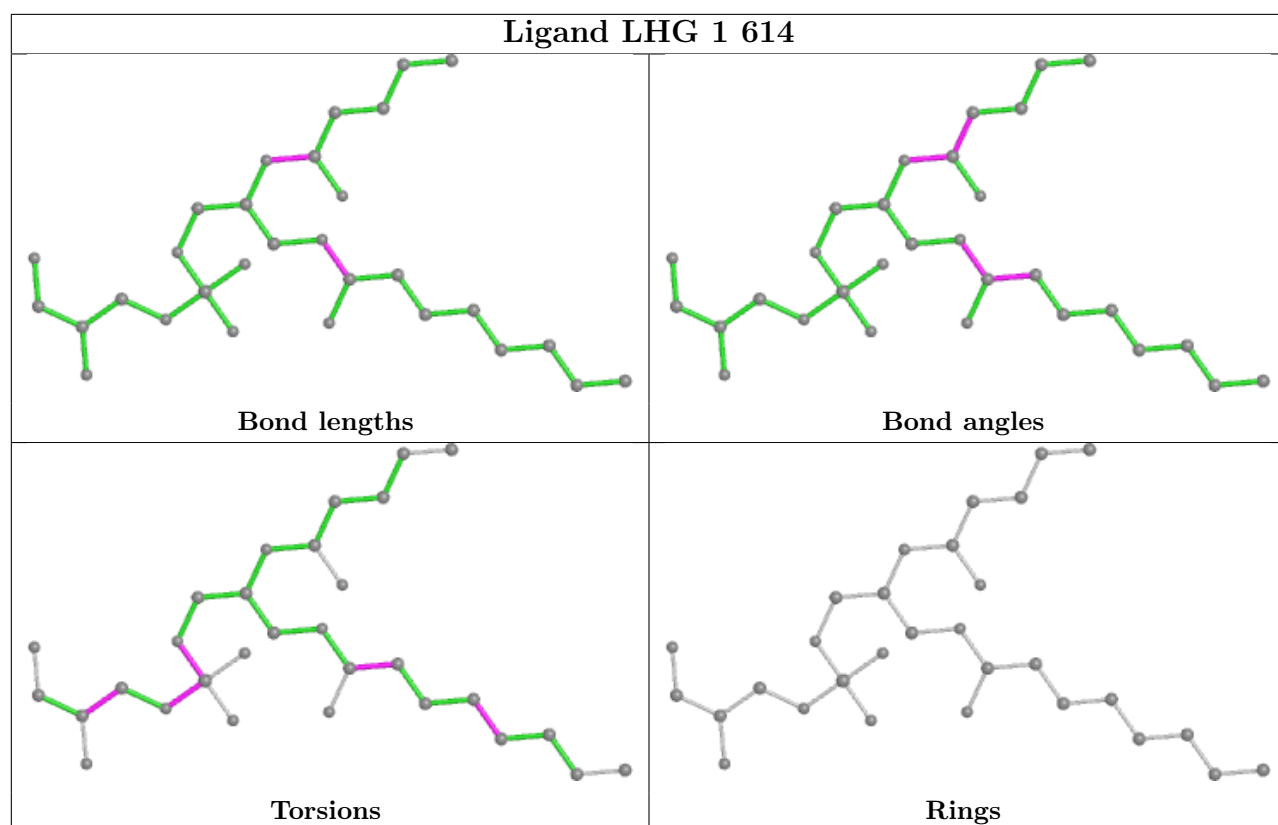


Ligand CLA Bb 601

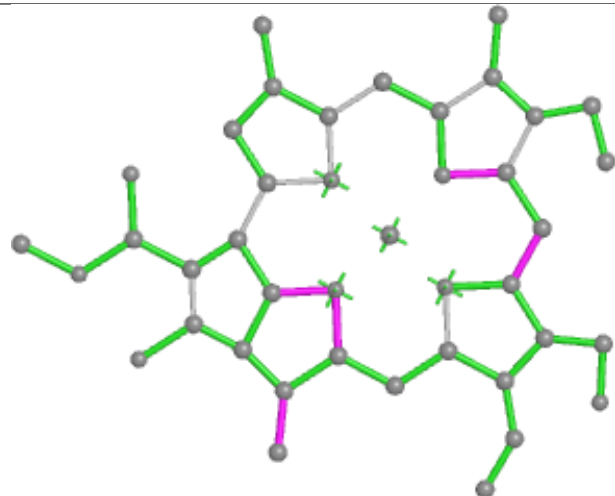


Ligand CLA Nn 314

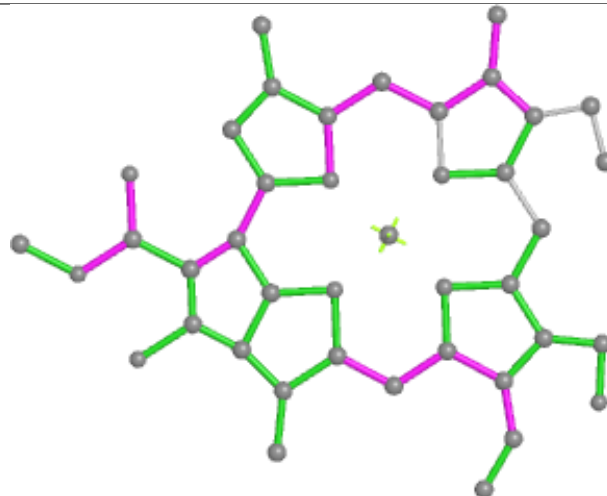




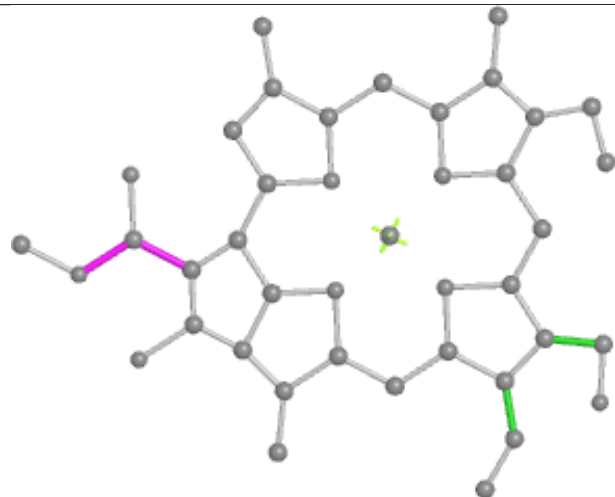
Ligand CHL 1 608



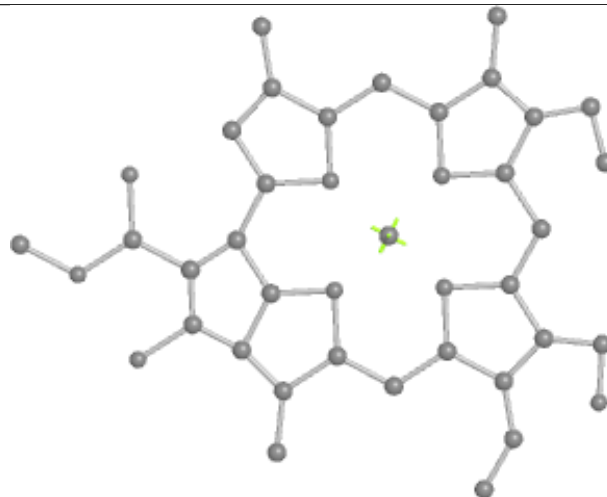
Bond lengths



Bond angles

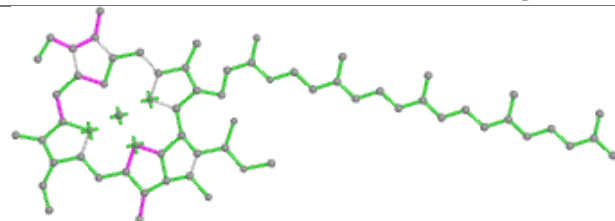


Torsions

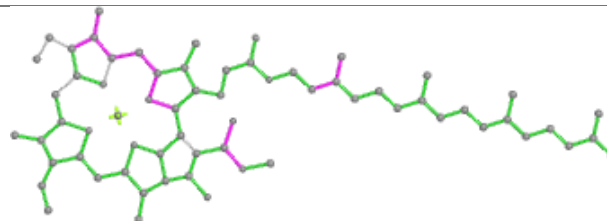


Rings

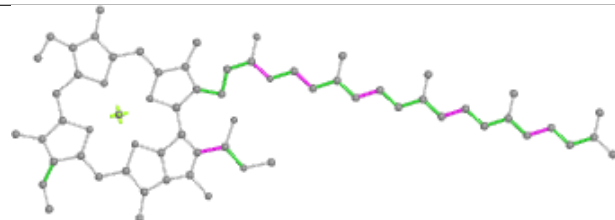
Ligand CLA C 514



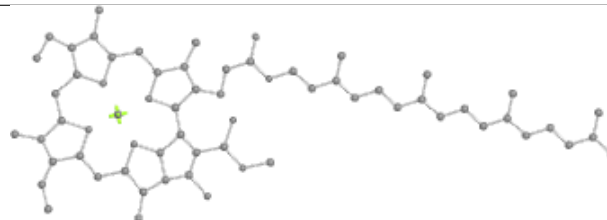
Bond lengths



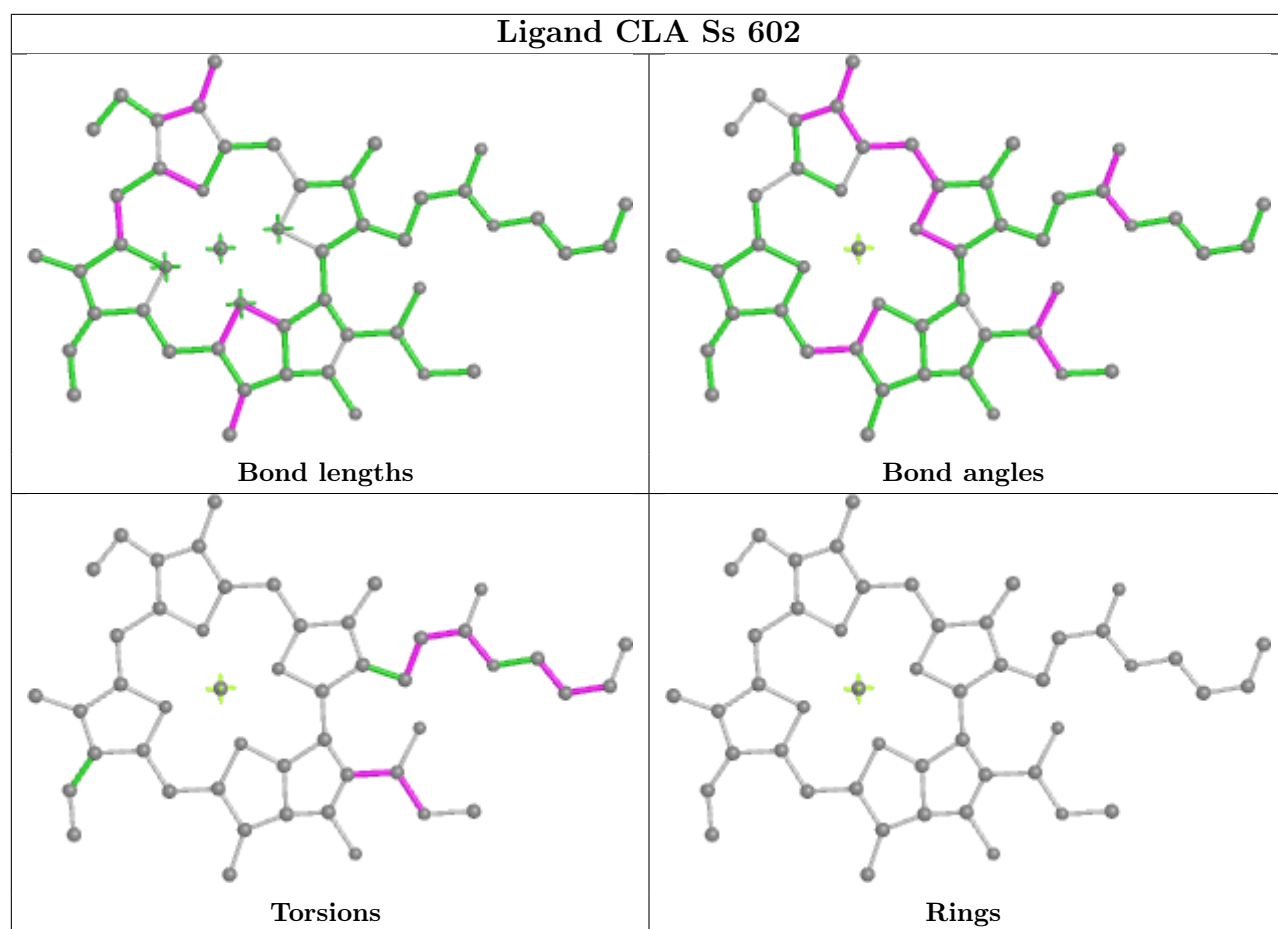
Bond angles

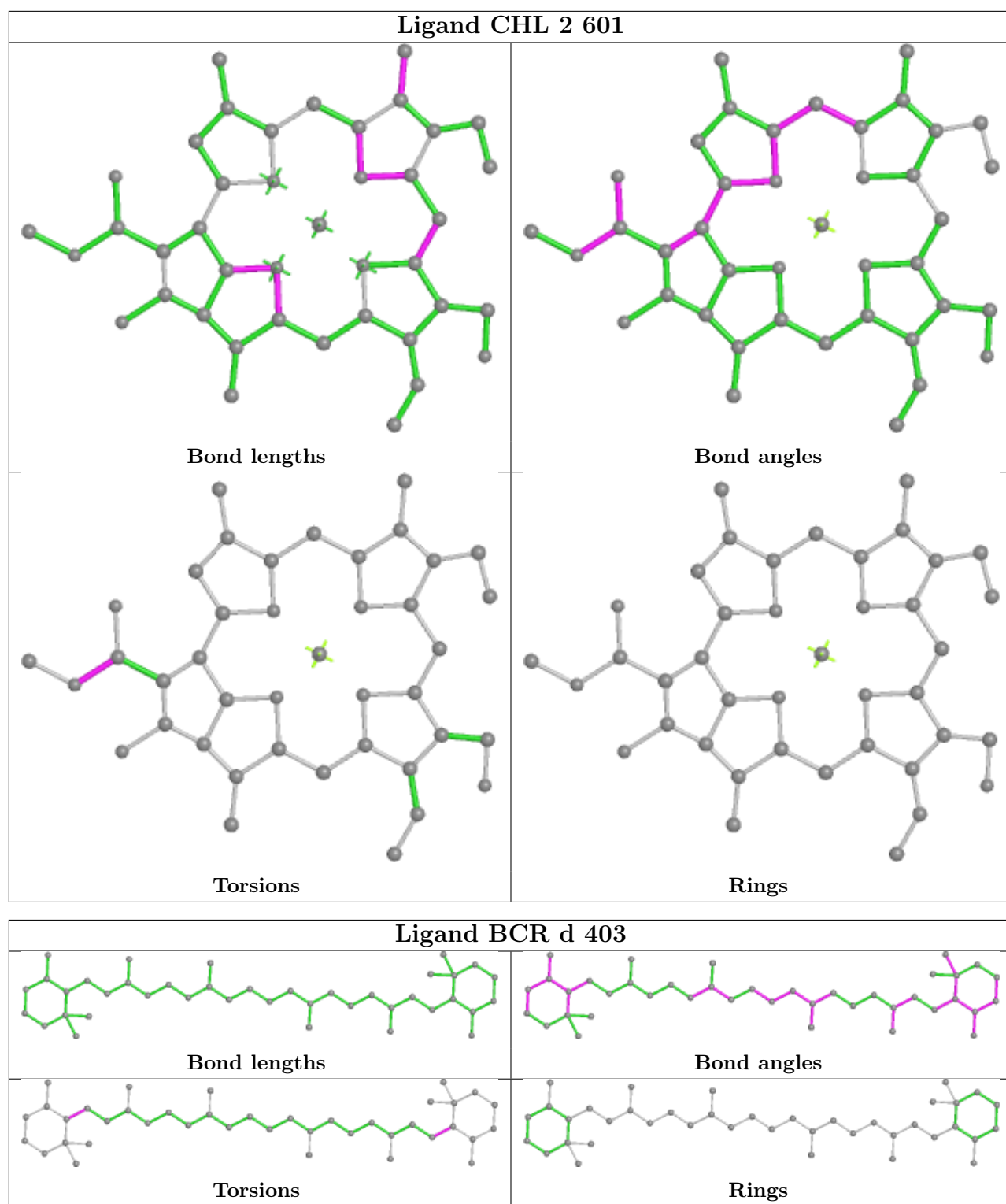


Torsions

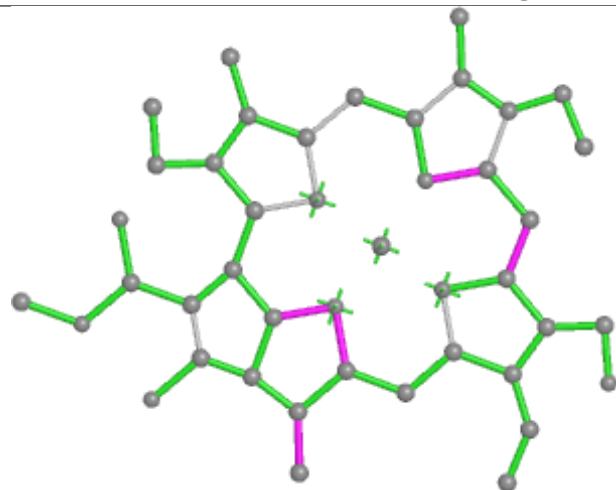


Rings

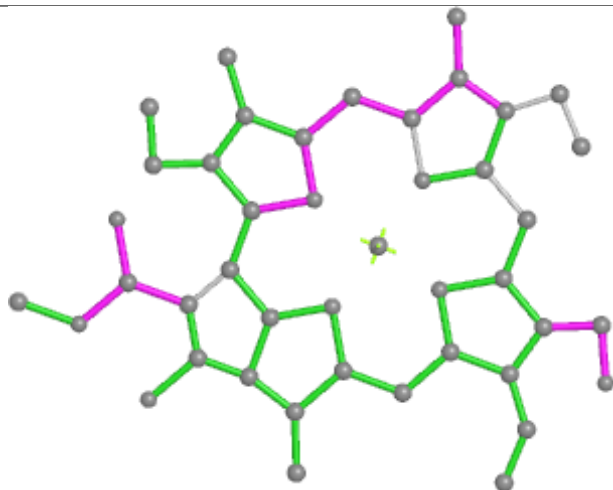




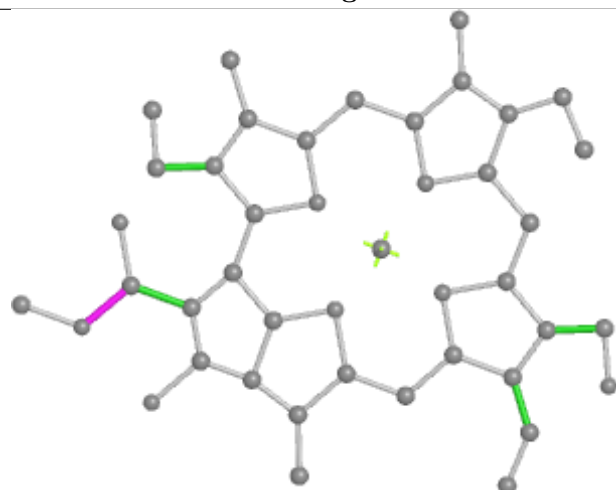
Ligand CHL Y 607



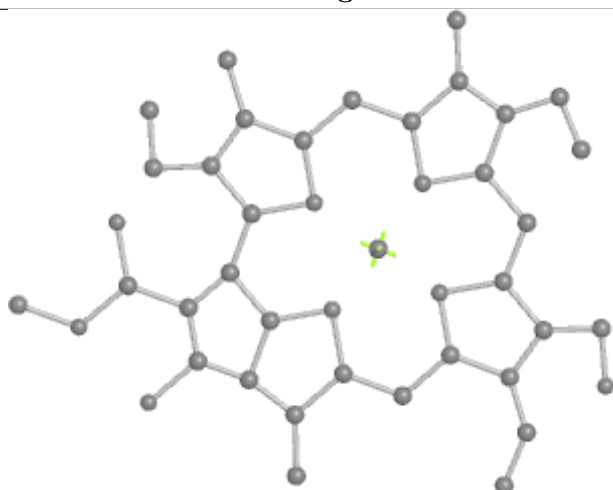
Bond lengths



Bond angles

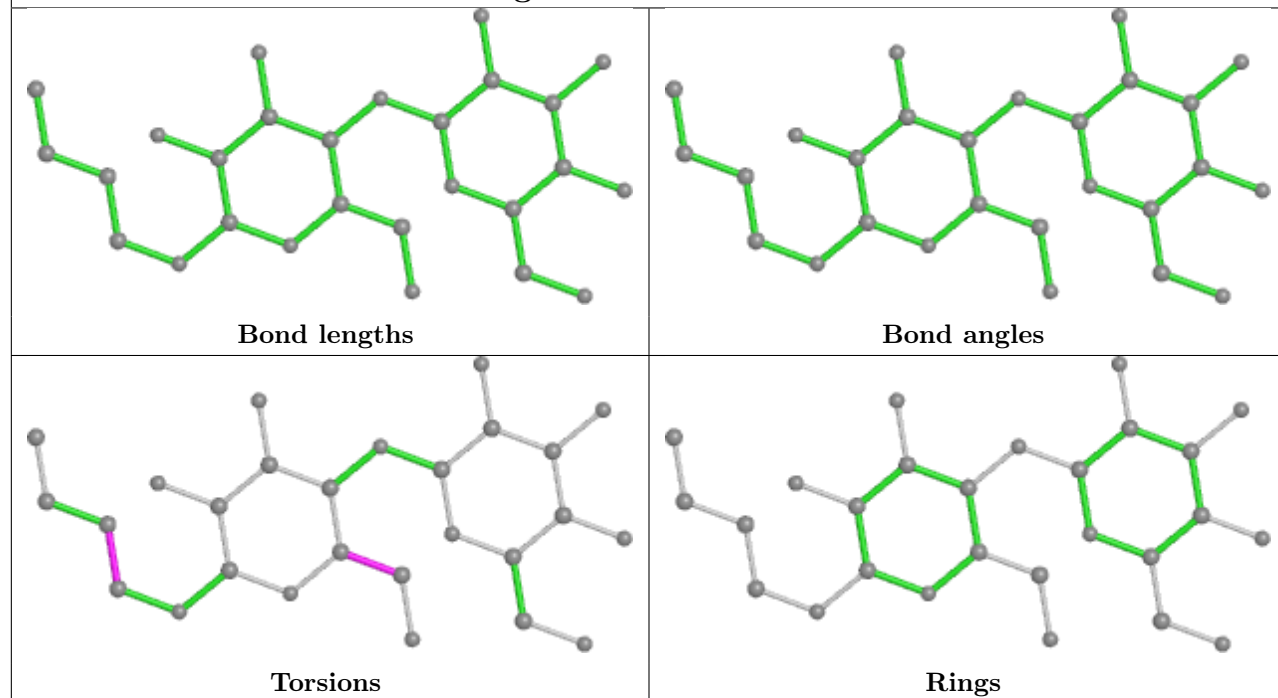


Torsions

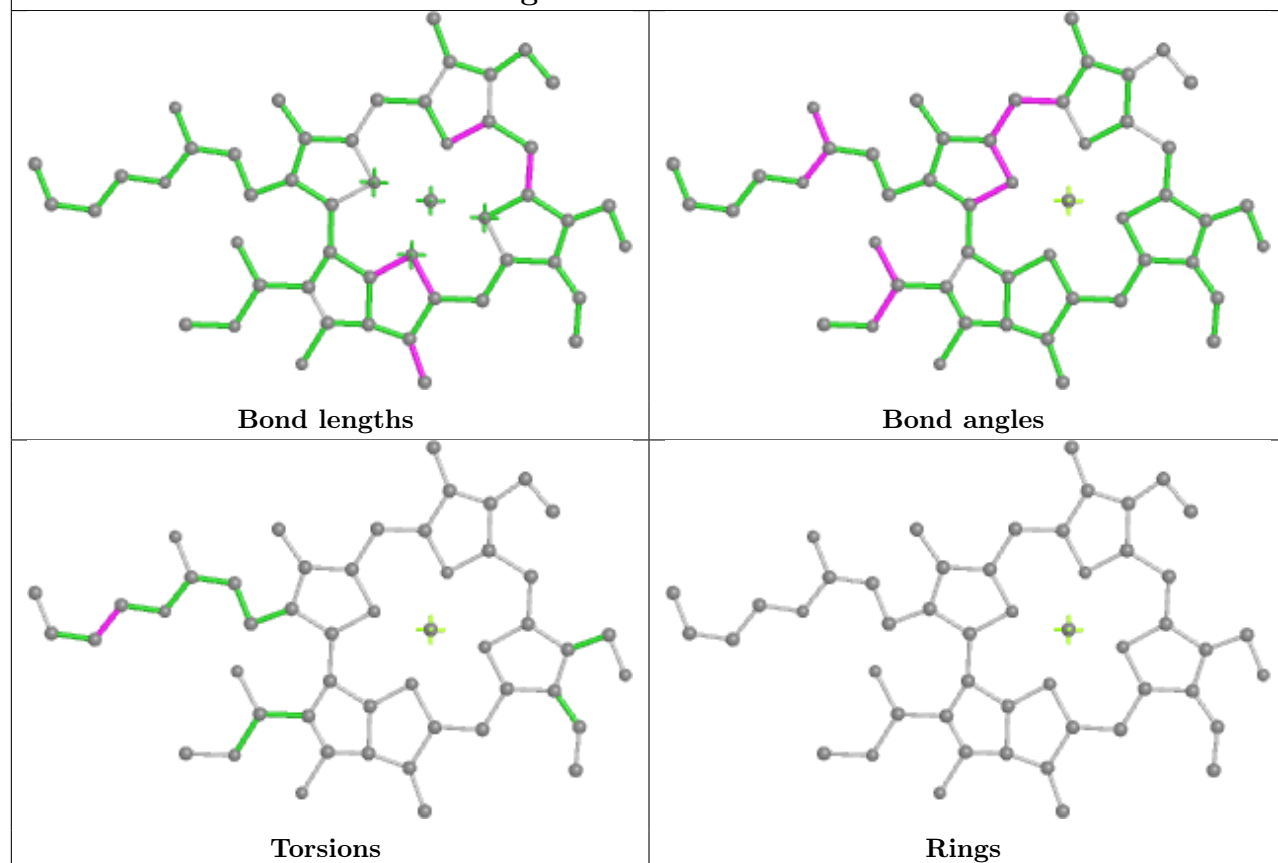


Rings

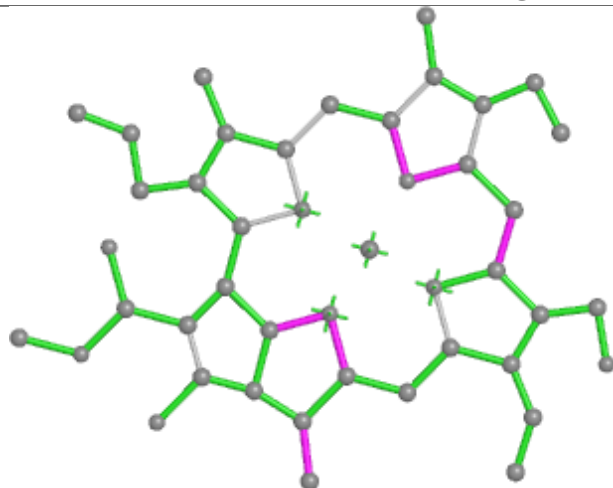
Ligand LMU RR 301



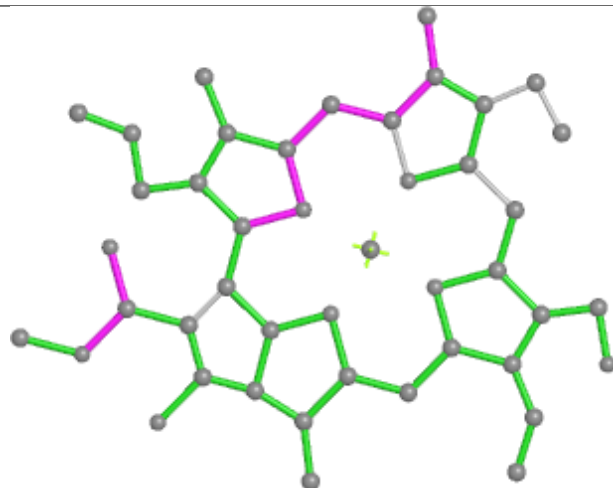
Ligand CHL Nn 316



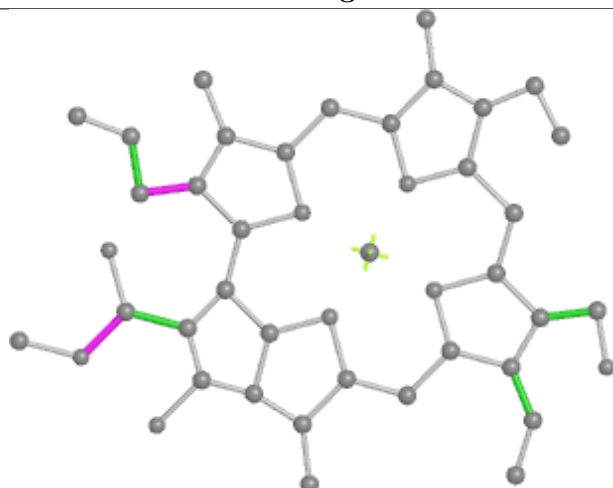
Ligand CHL Y 606



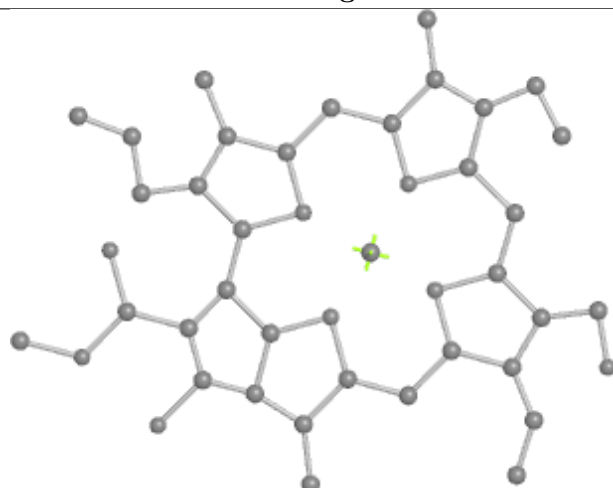
Bond lengths



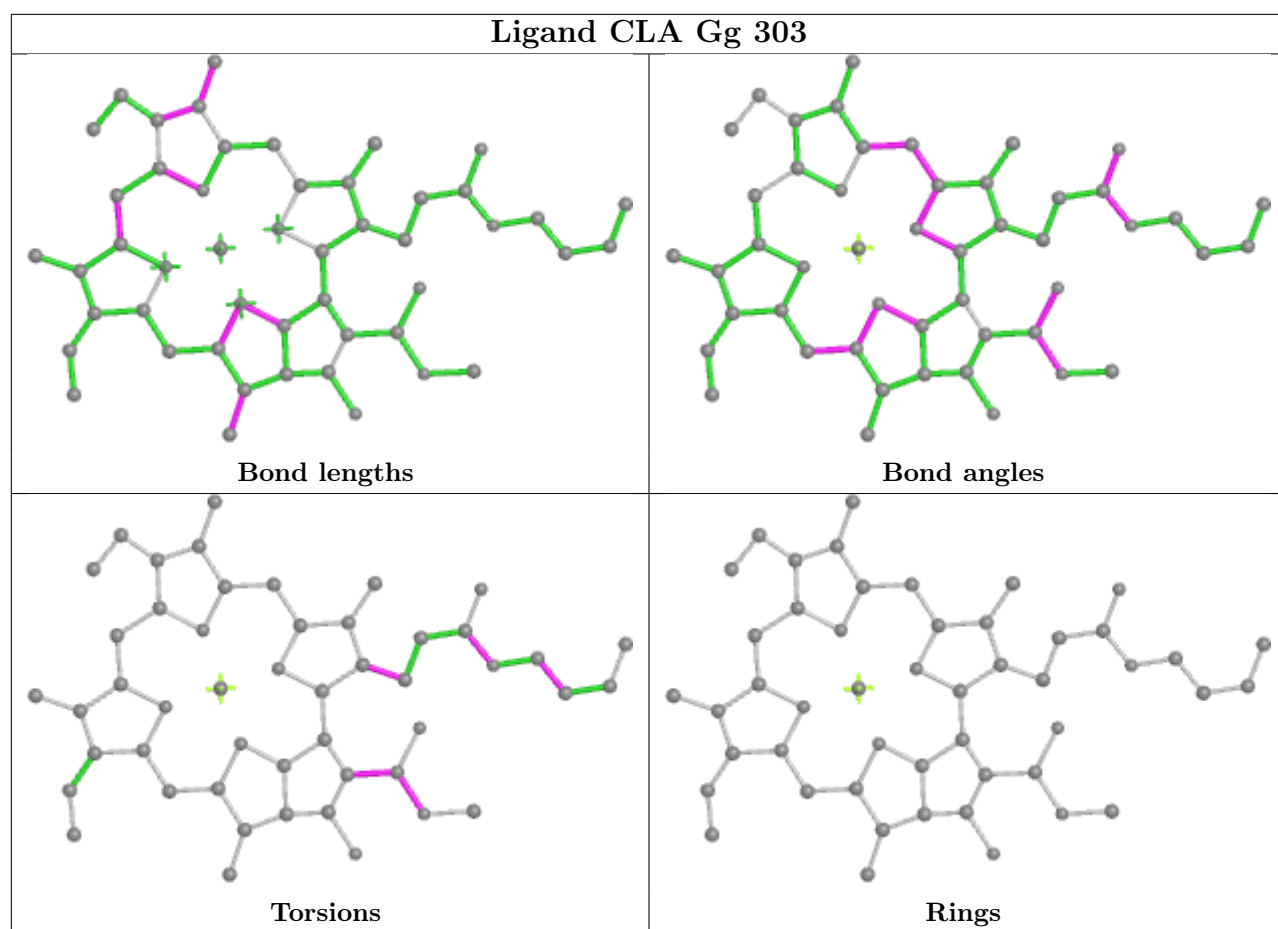
Bond angles

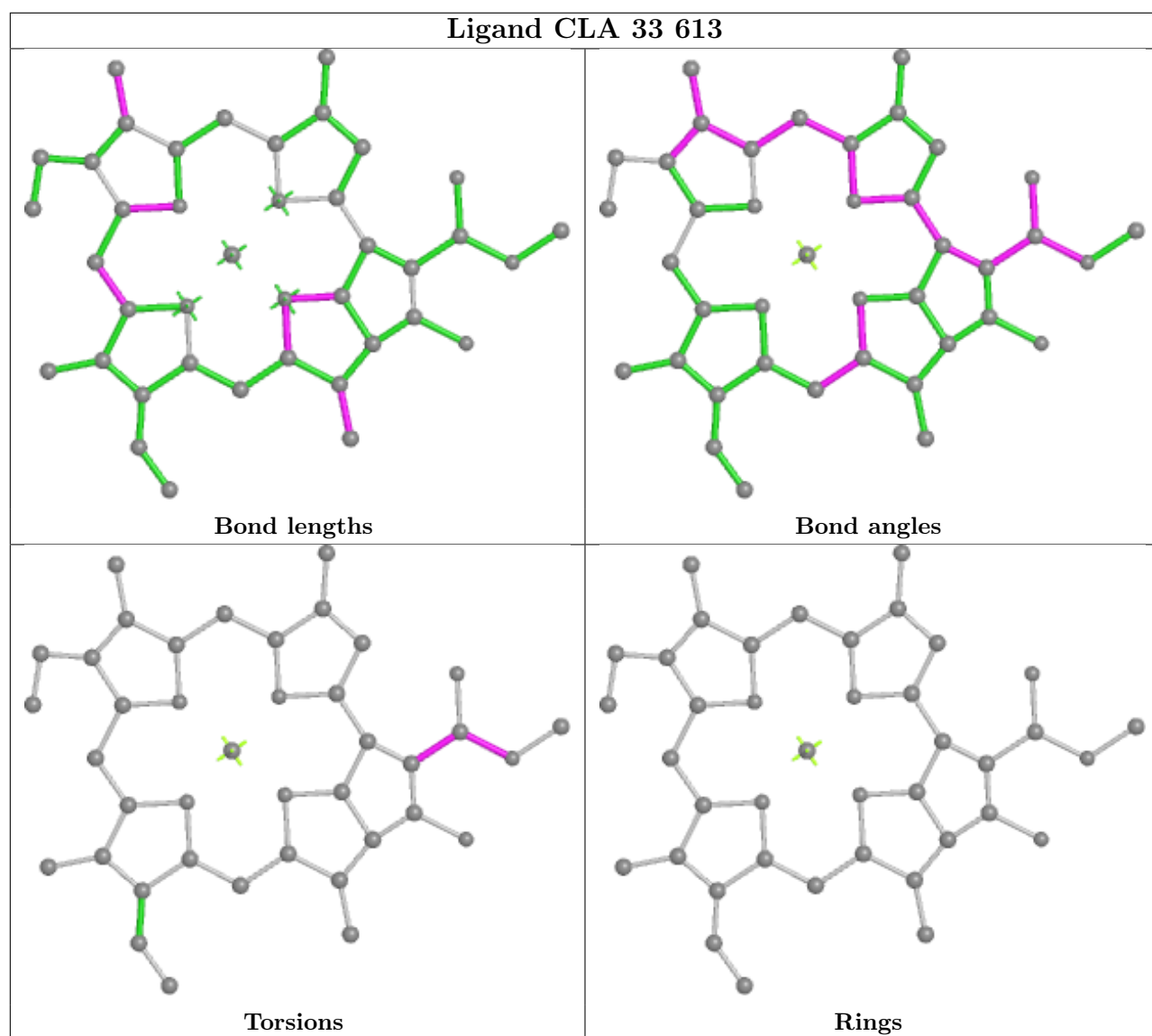


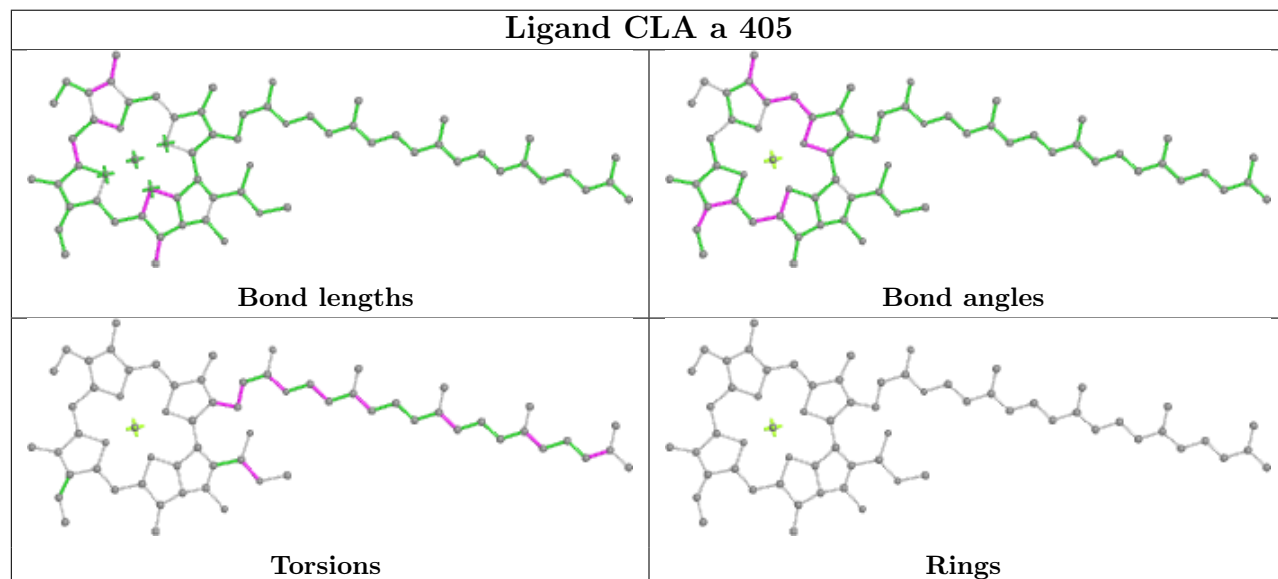
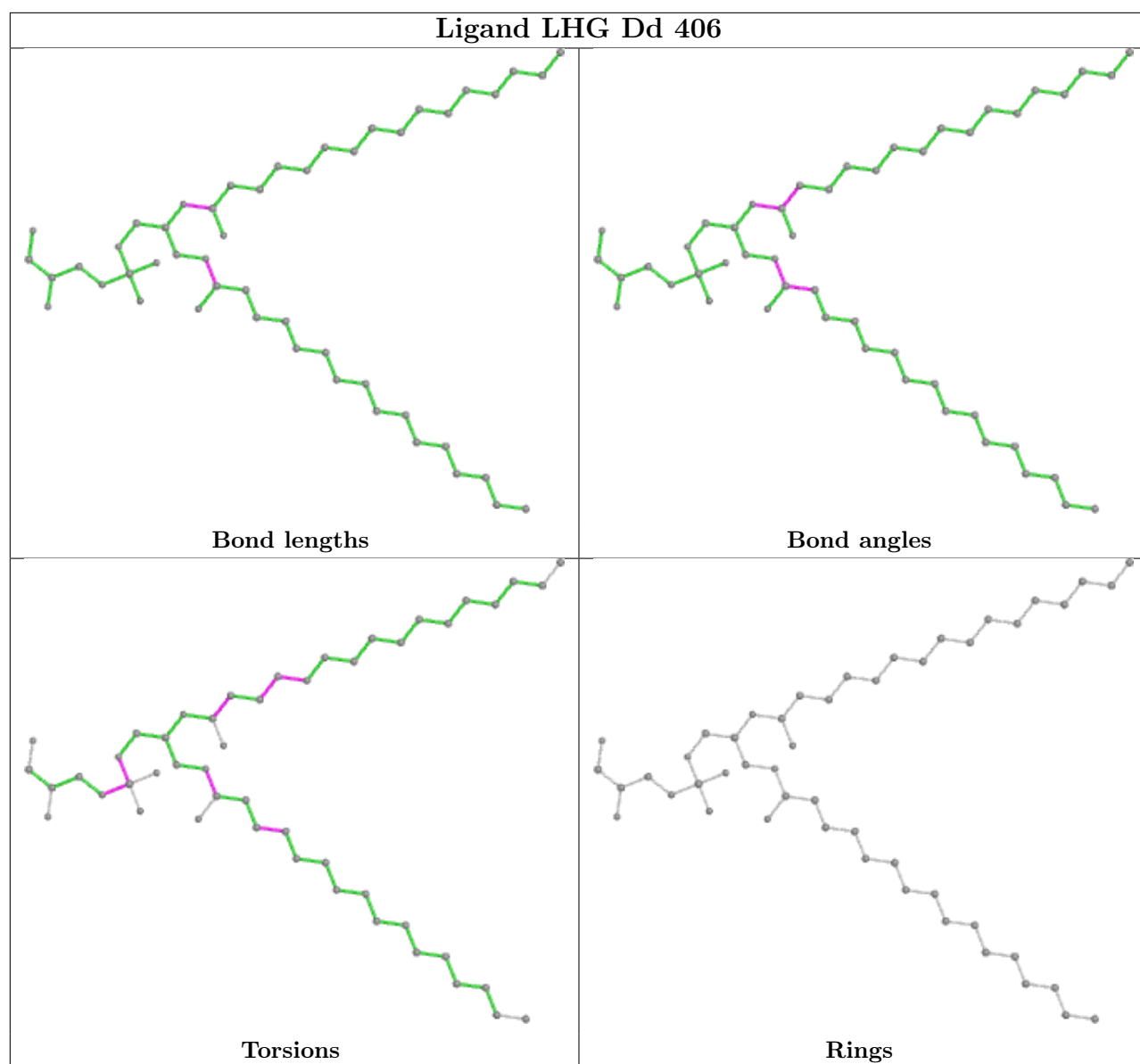
Torsions

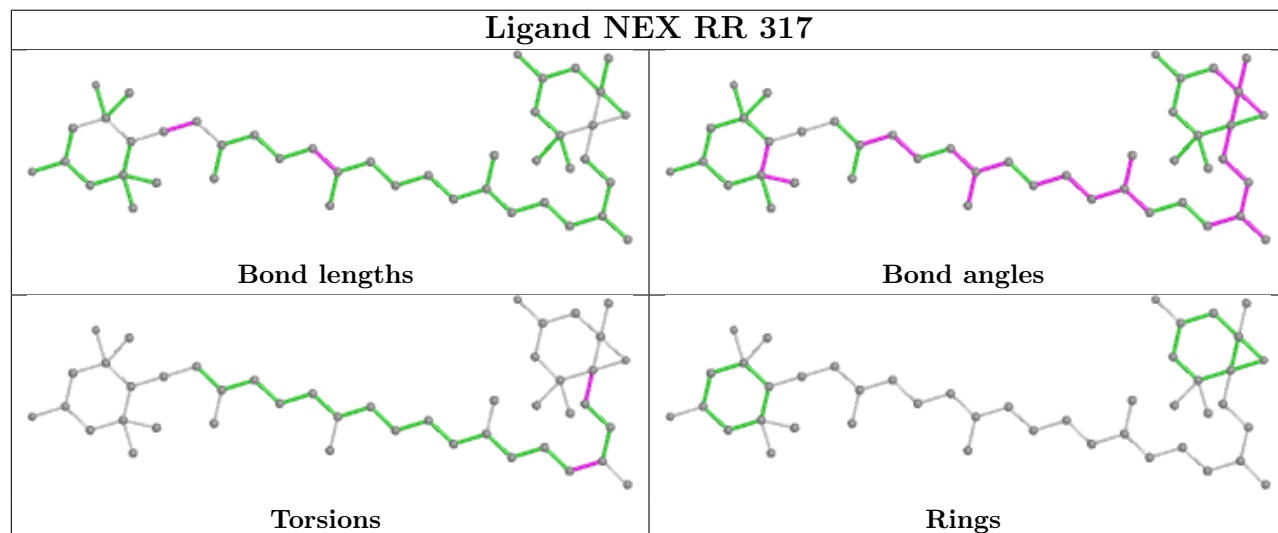
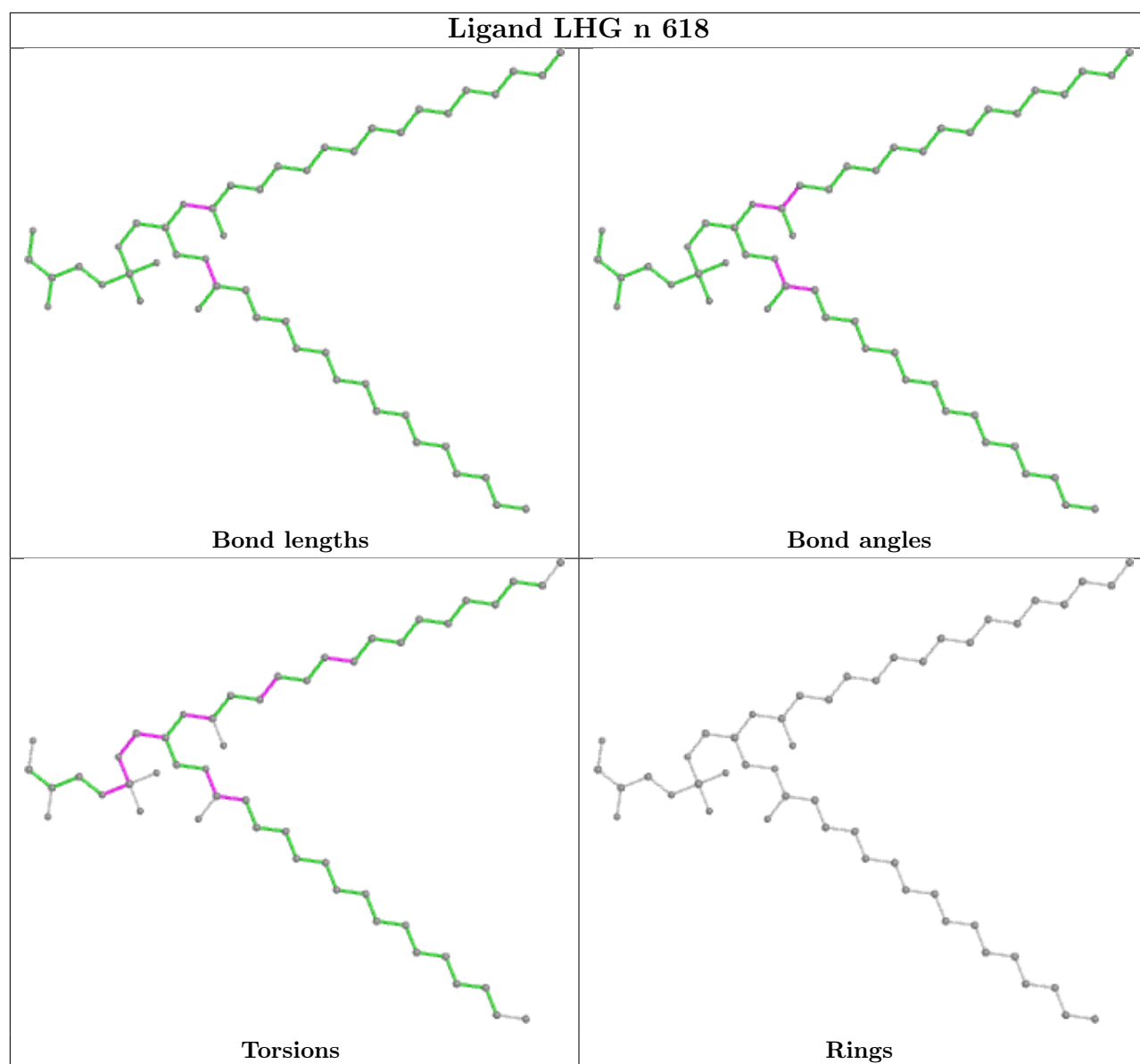


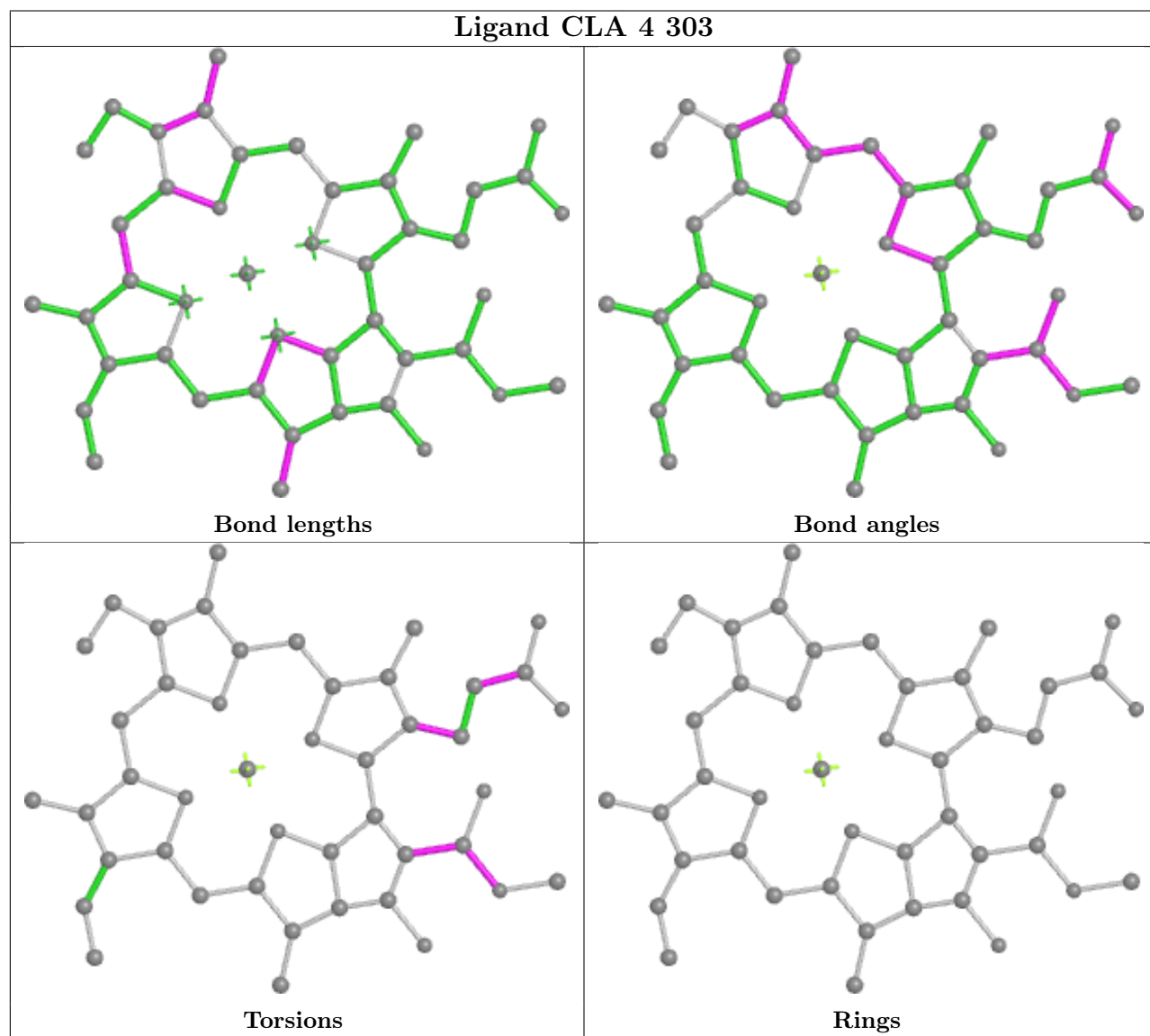
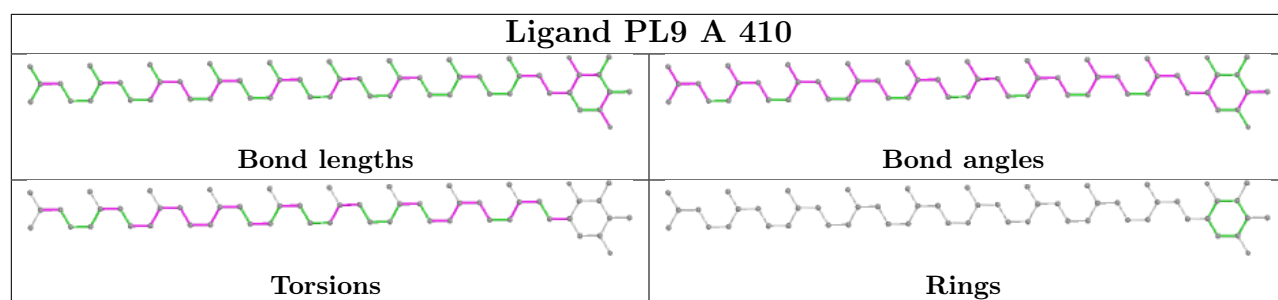
Rings



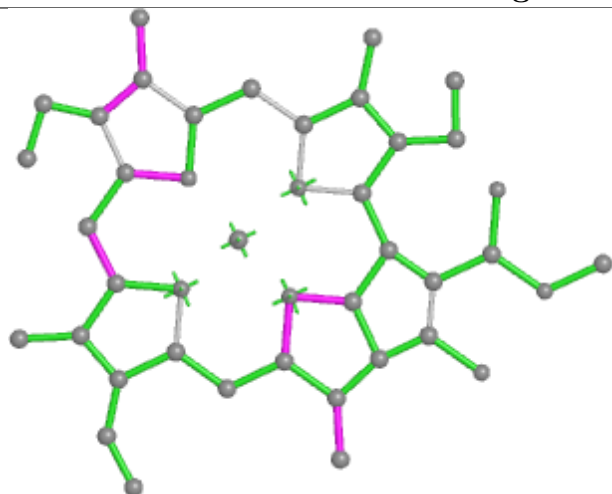




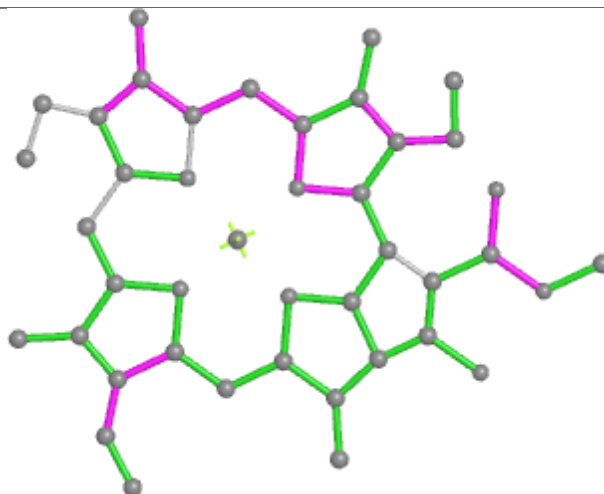




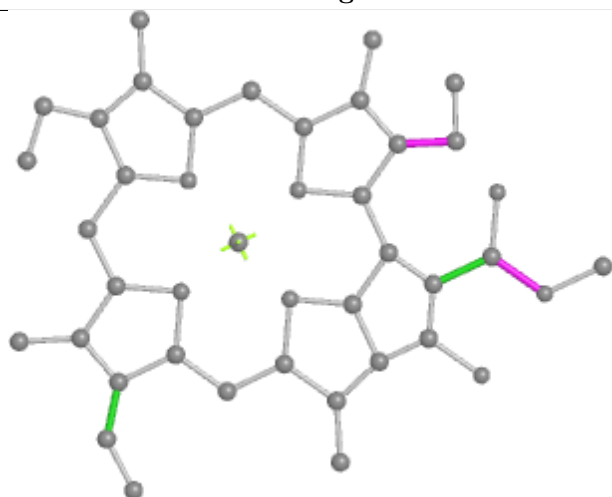
Ligand CLA N 612



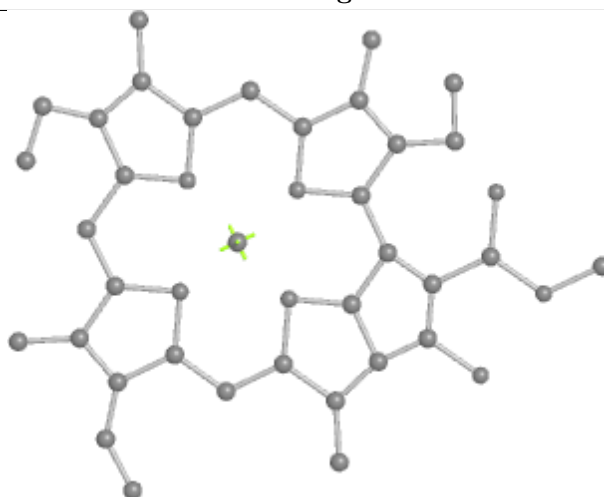
Bond lengths



Bond angles

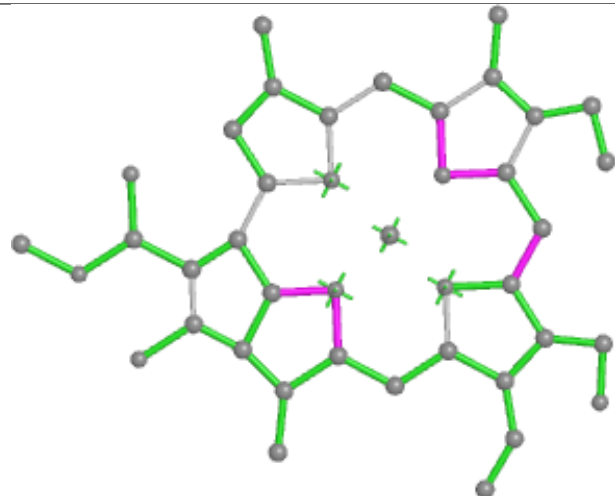


Torsions

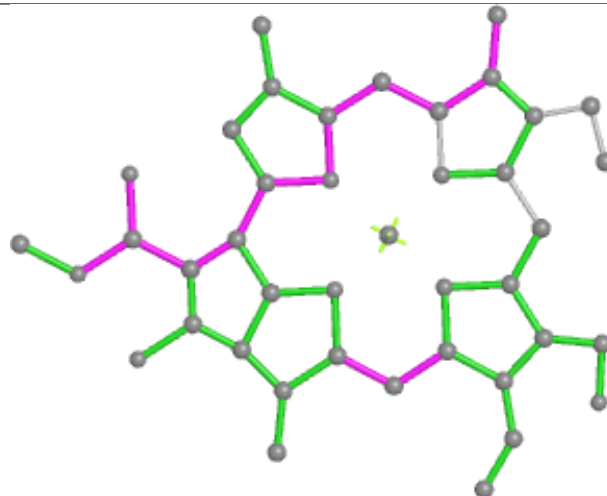


Rings

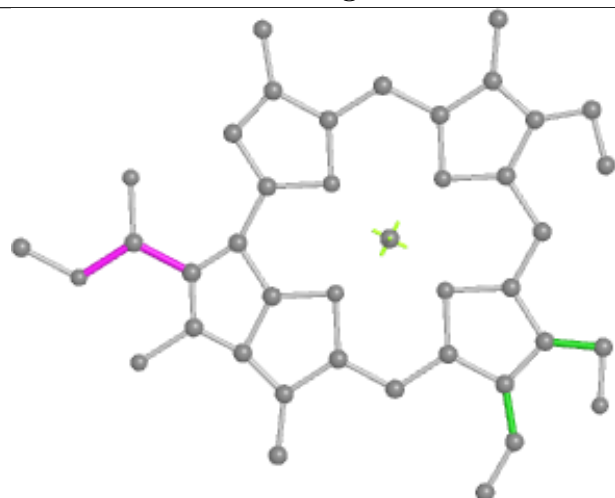
Ligand CHL 1 605



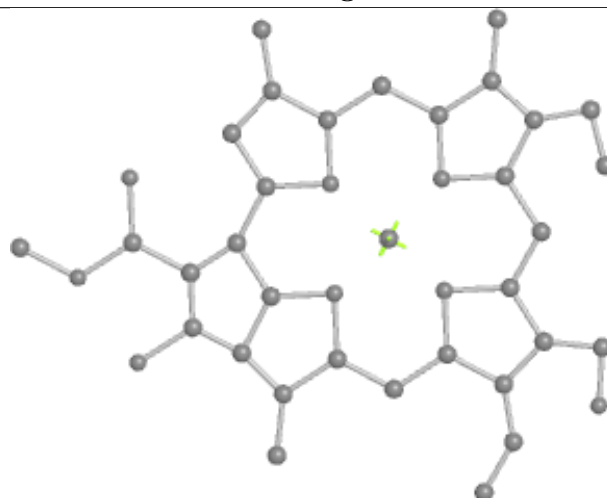
Bond lengths



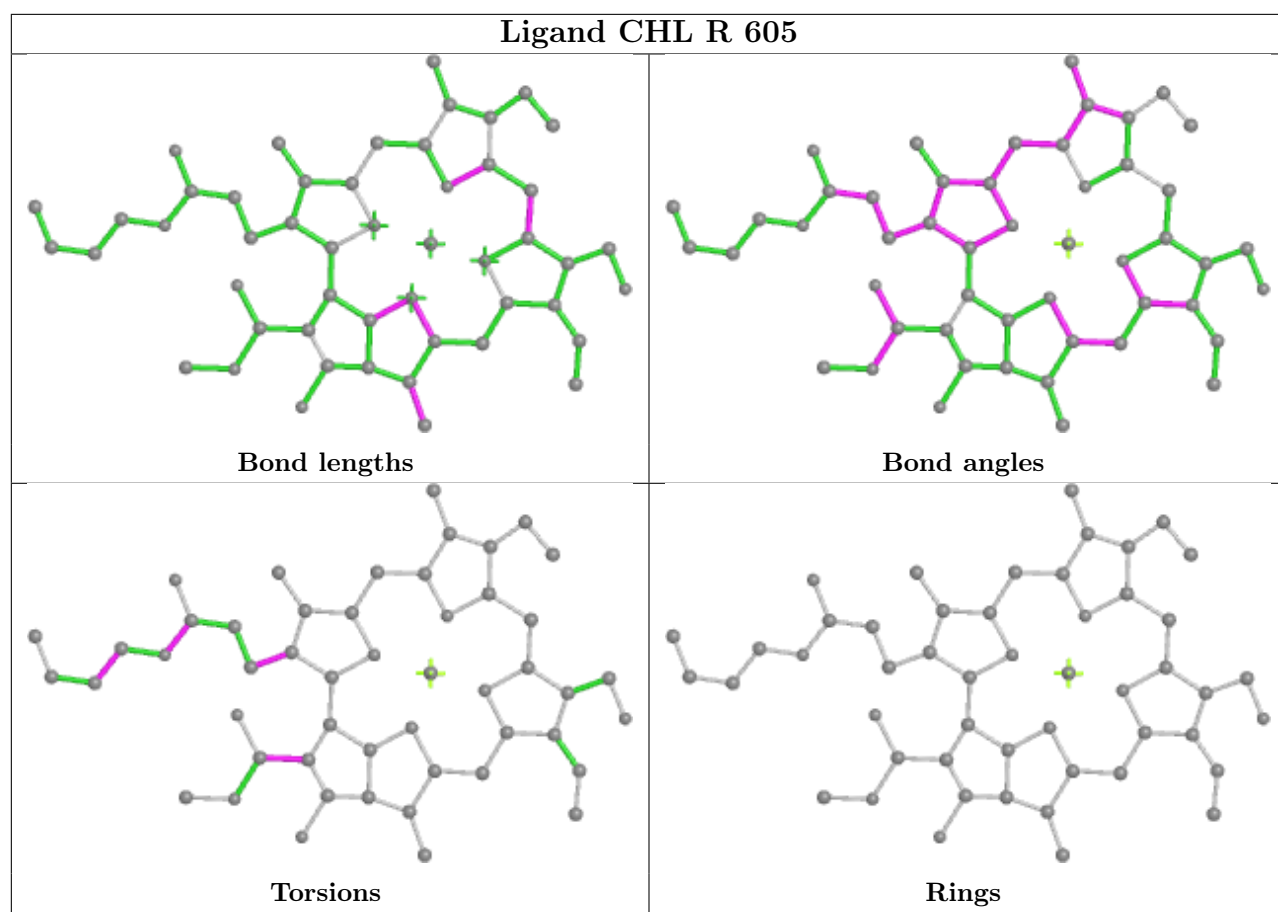
Bond angles

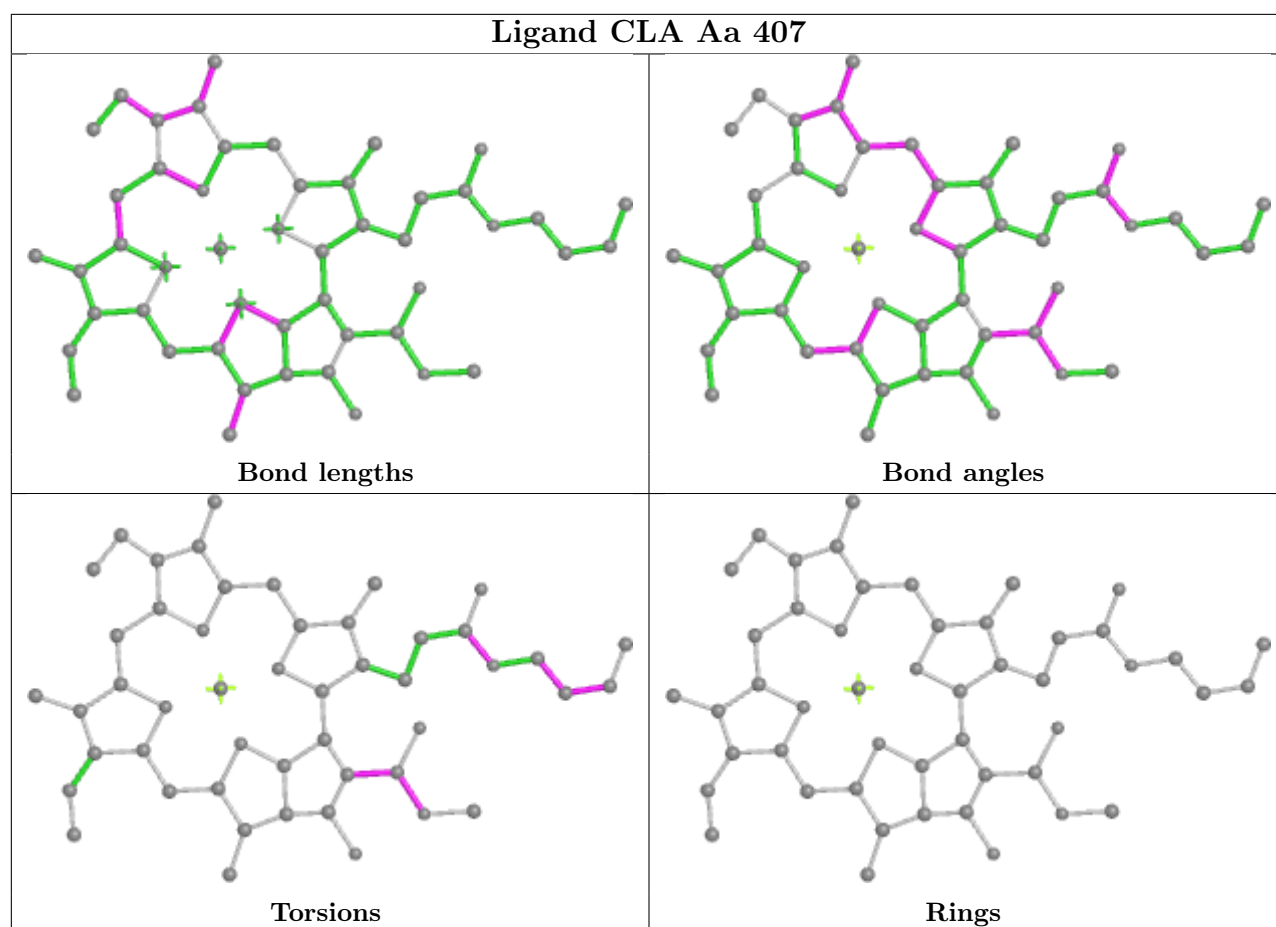


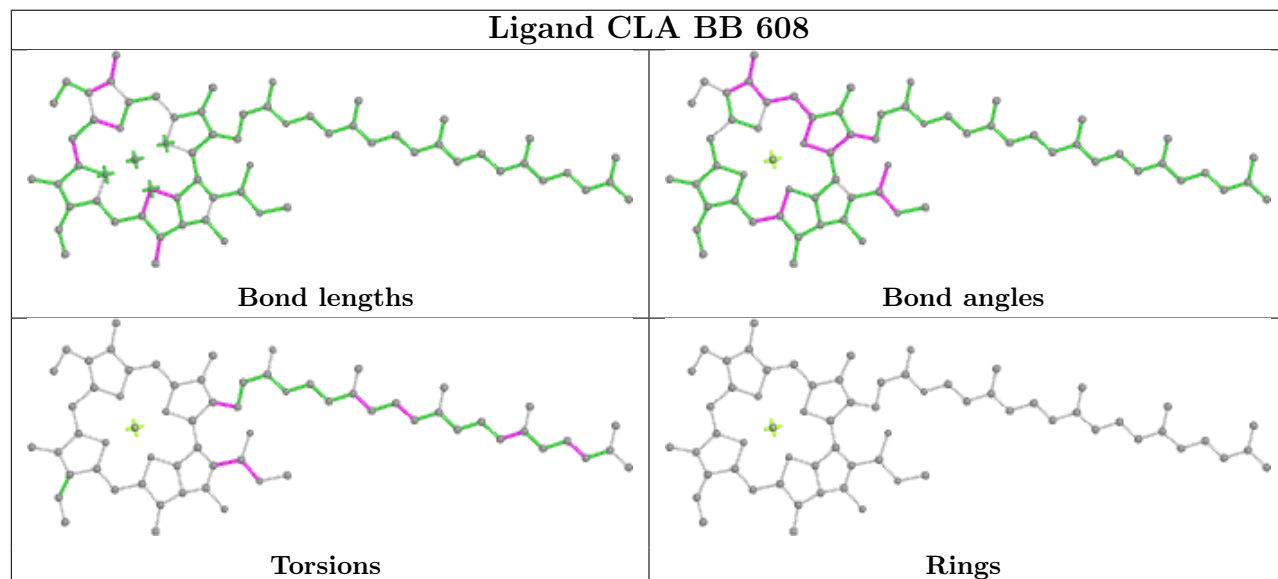
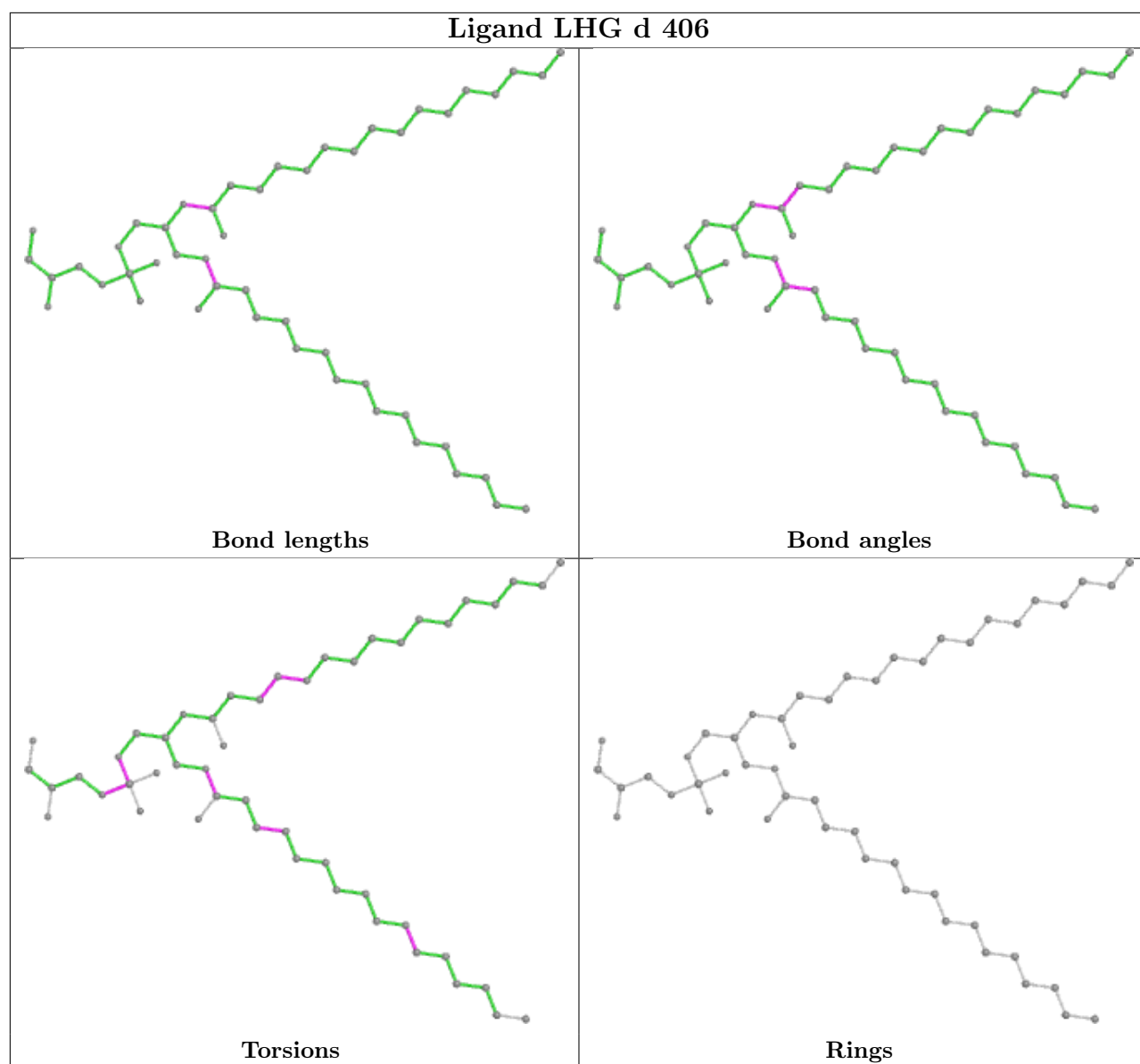
Torsions

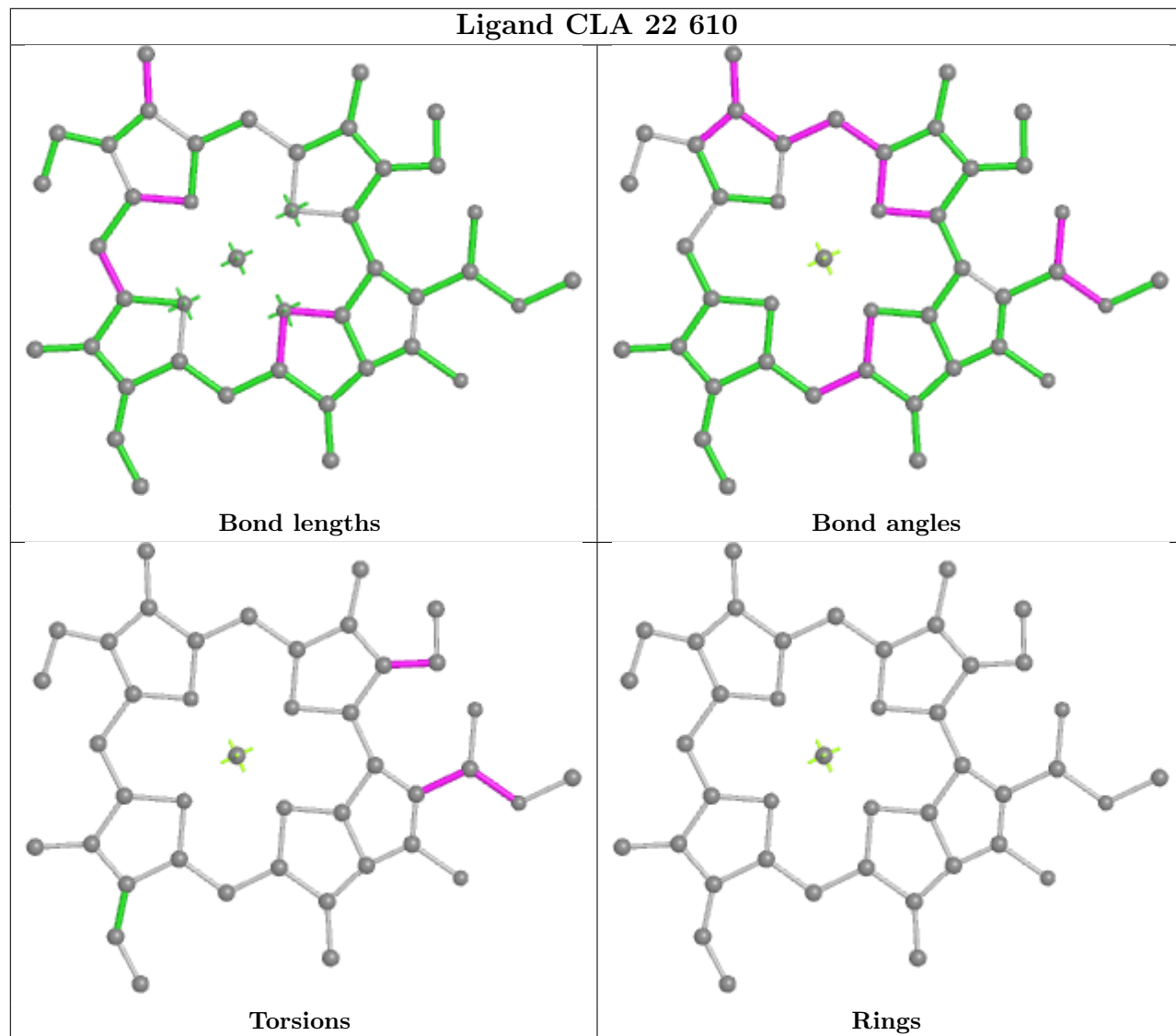
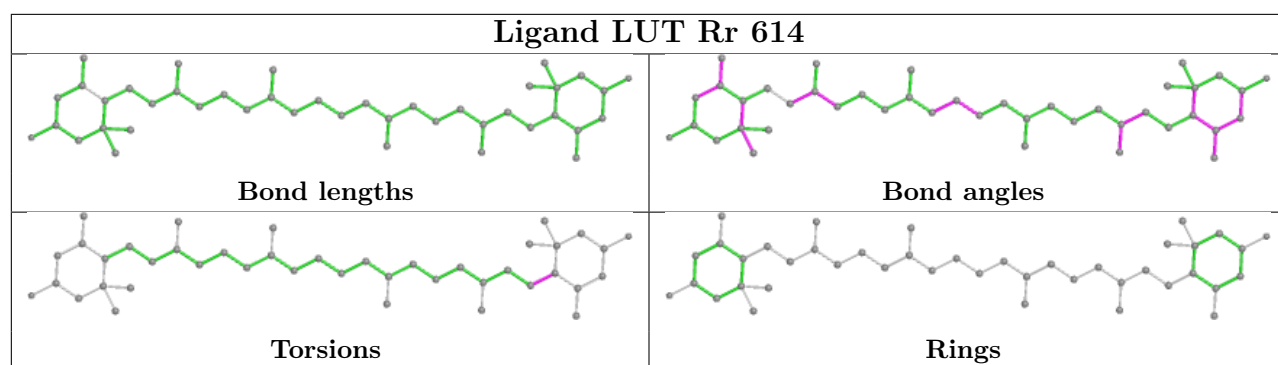


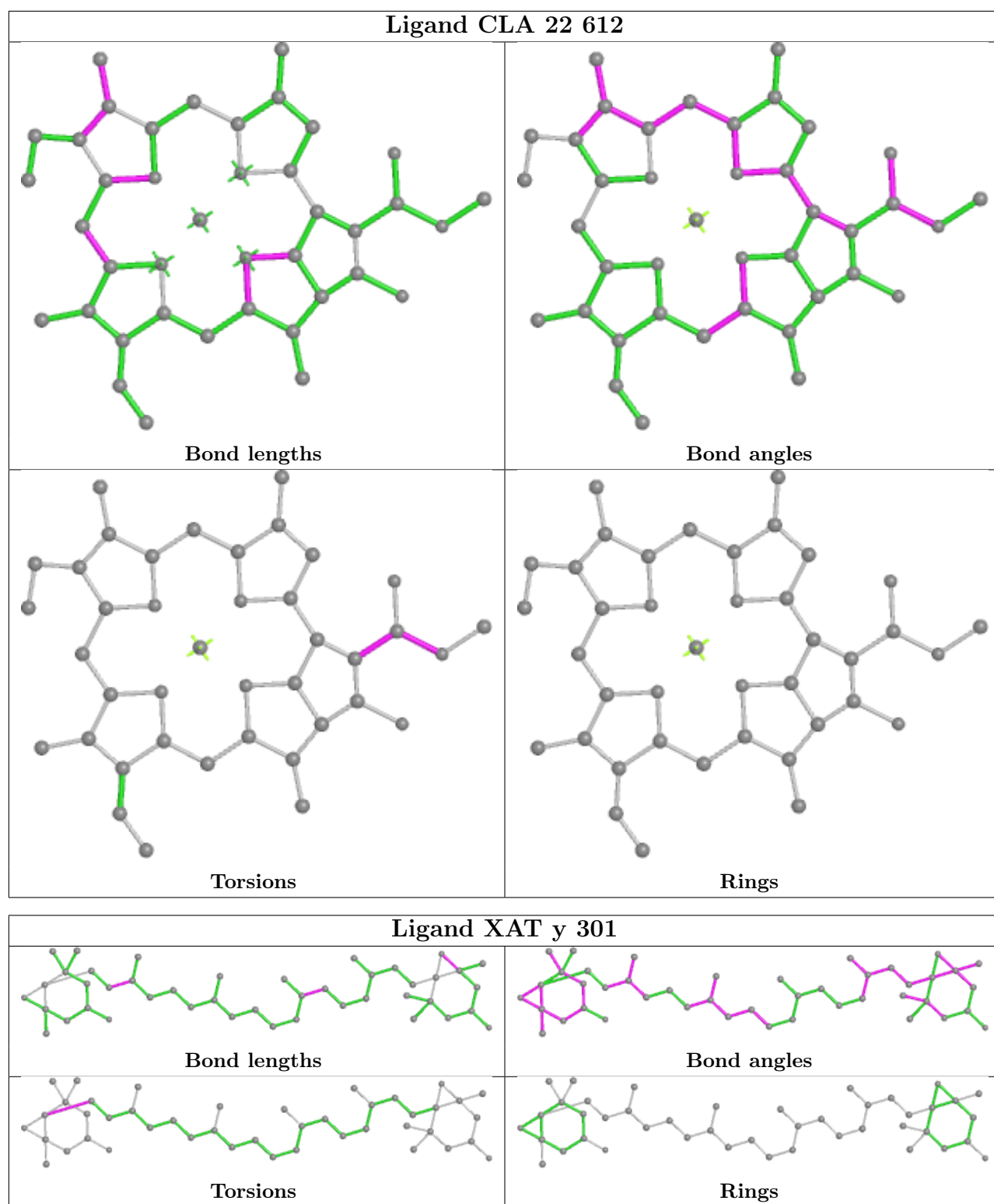
Rings

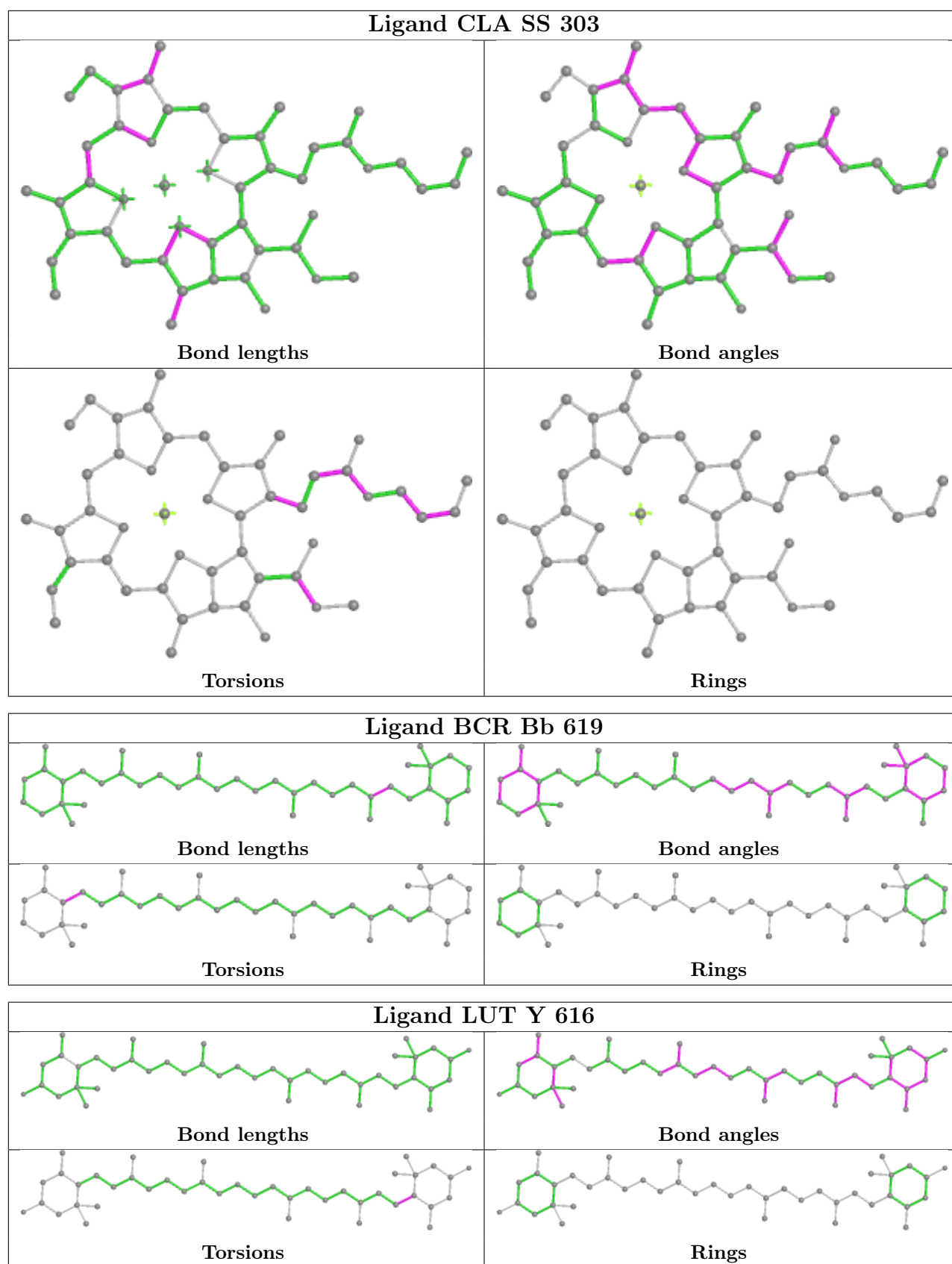




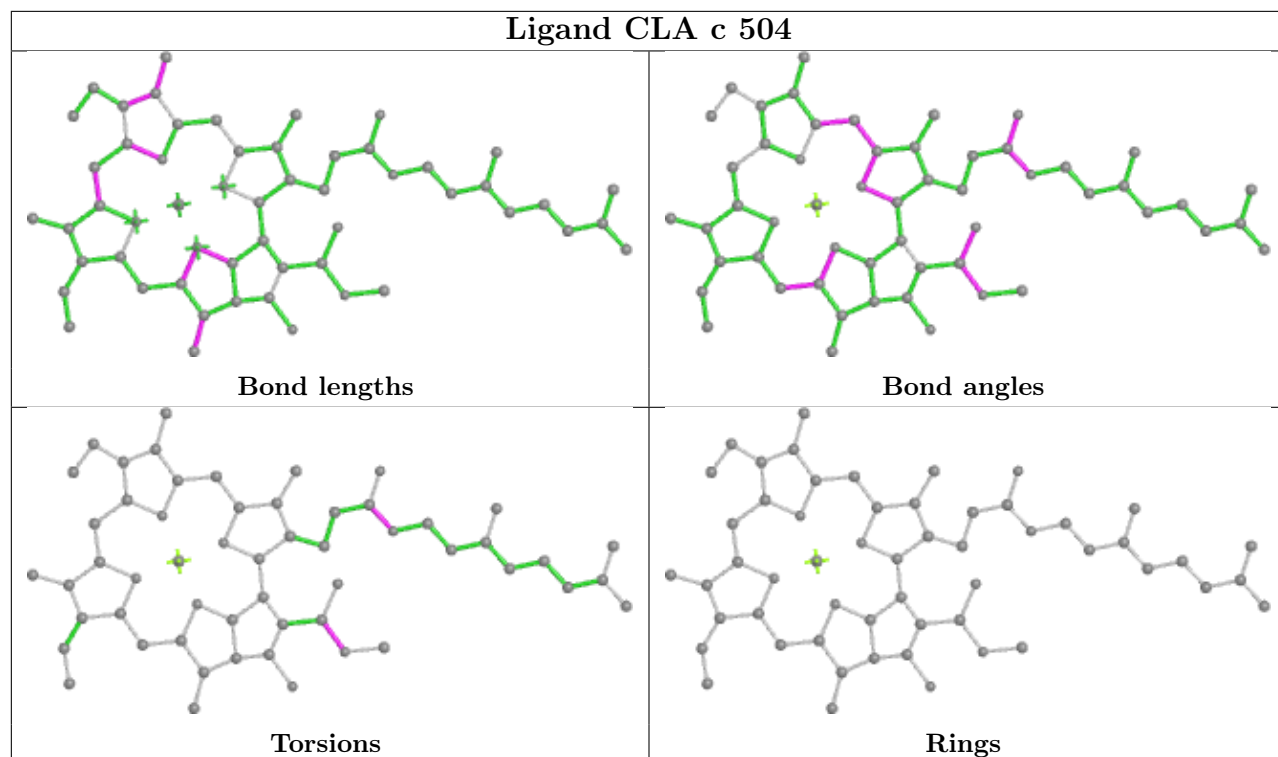




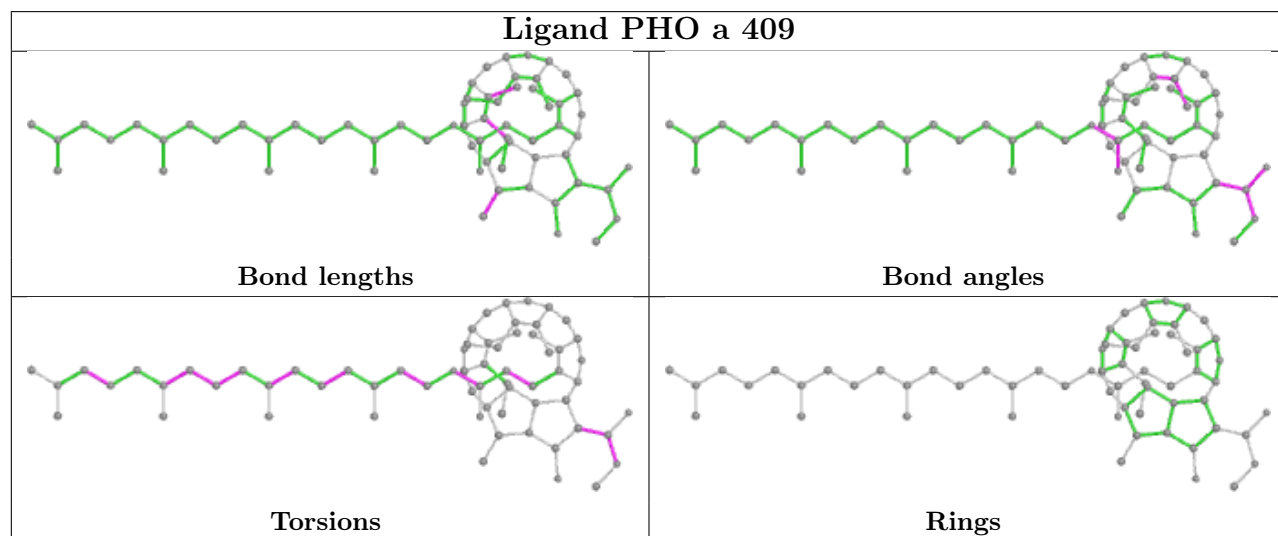




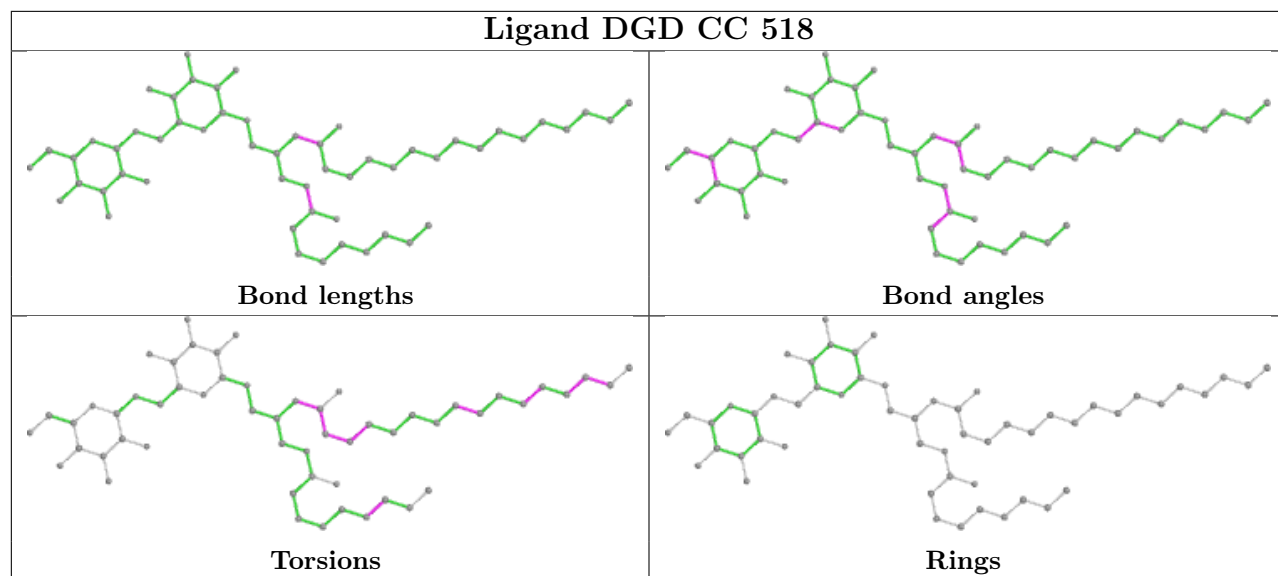
Ligand CLA c 504



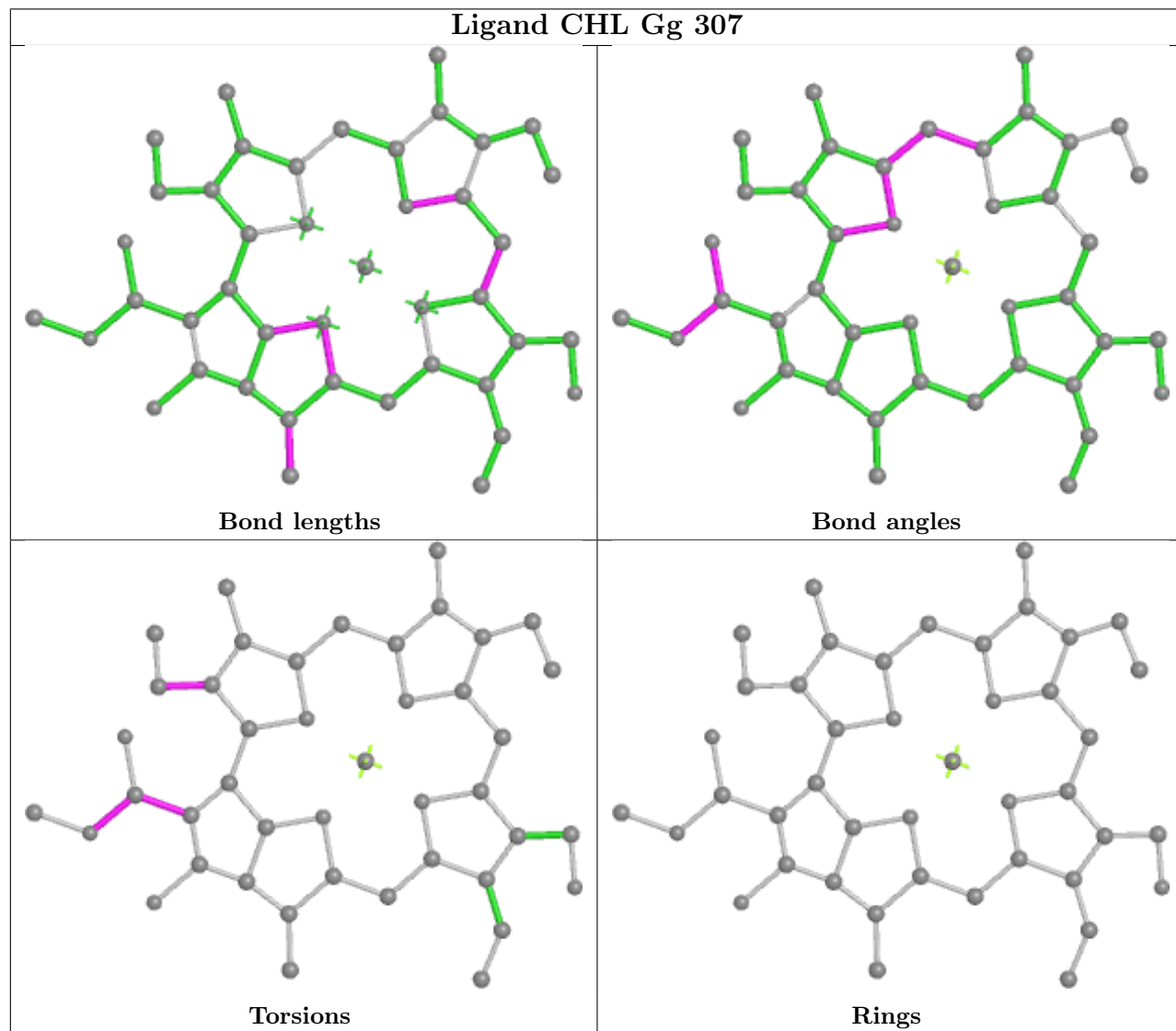
Ligand PHO a 409



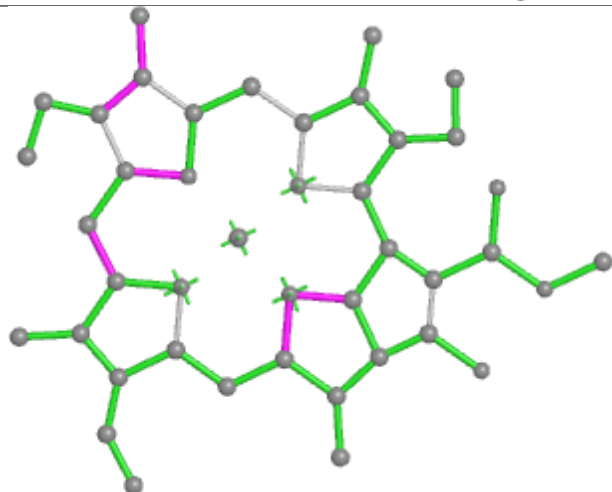
Ligand DGD CC 518



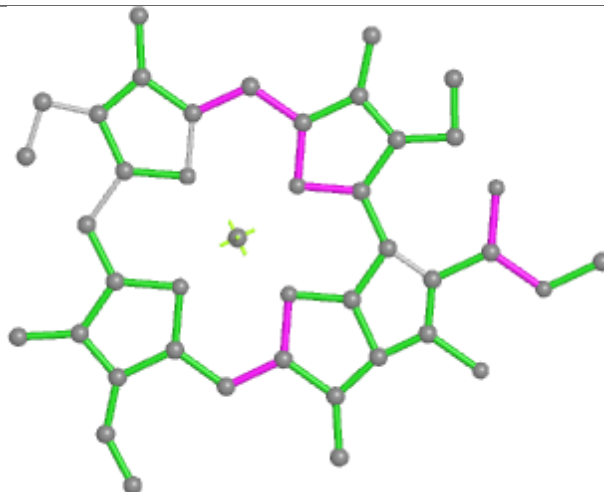
Ligand CHL Gg 307



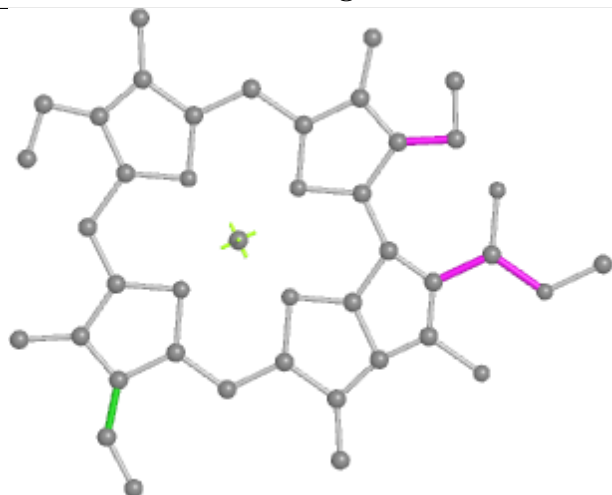
Ligand CLA G 604



Bond lengths



Bond angles

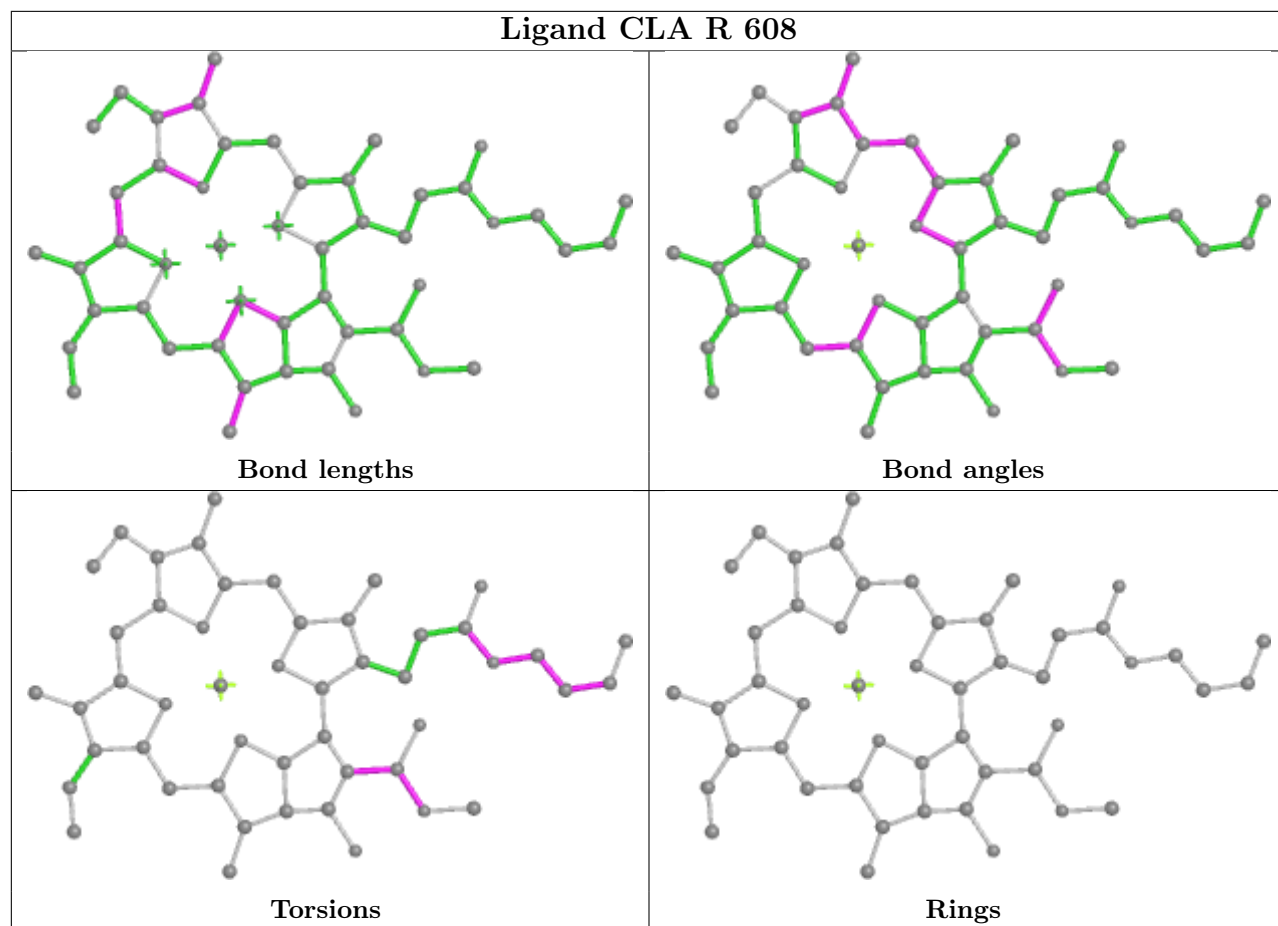


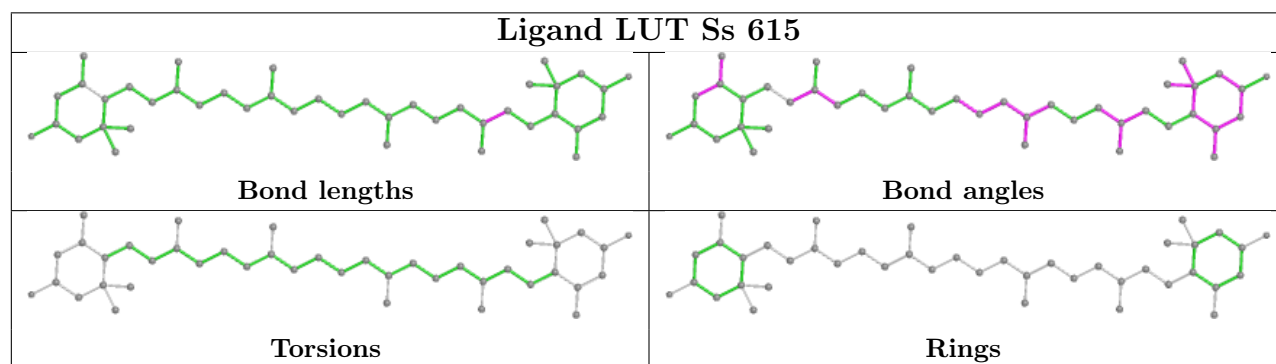
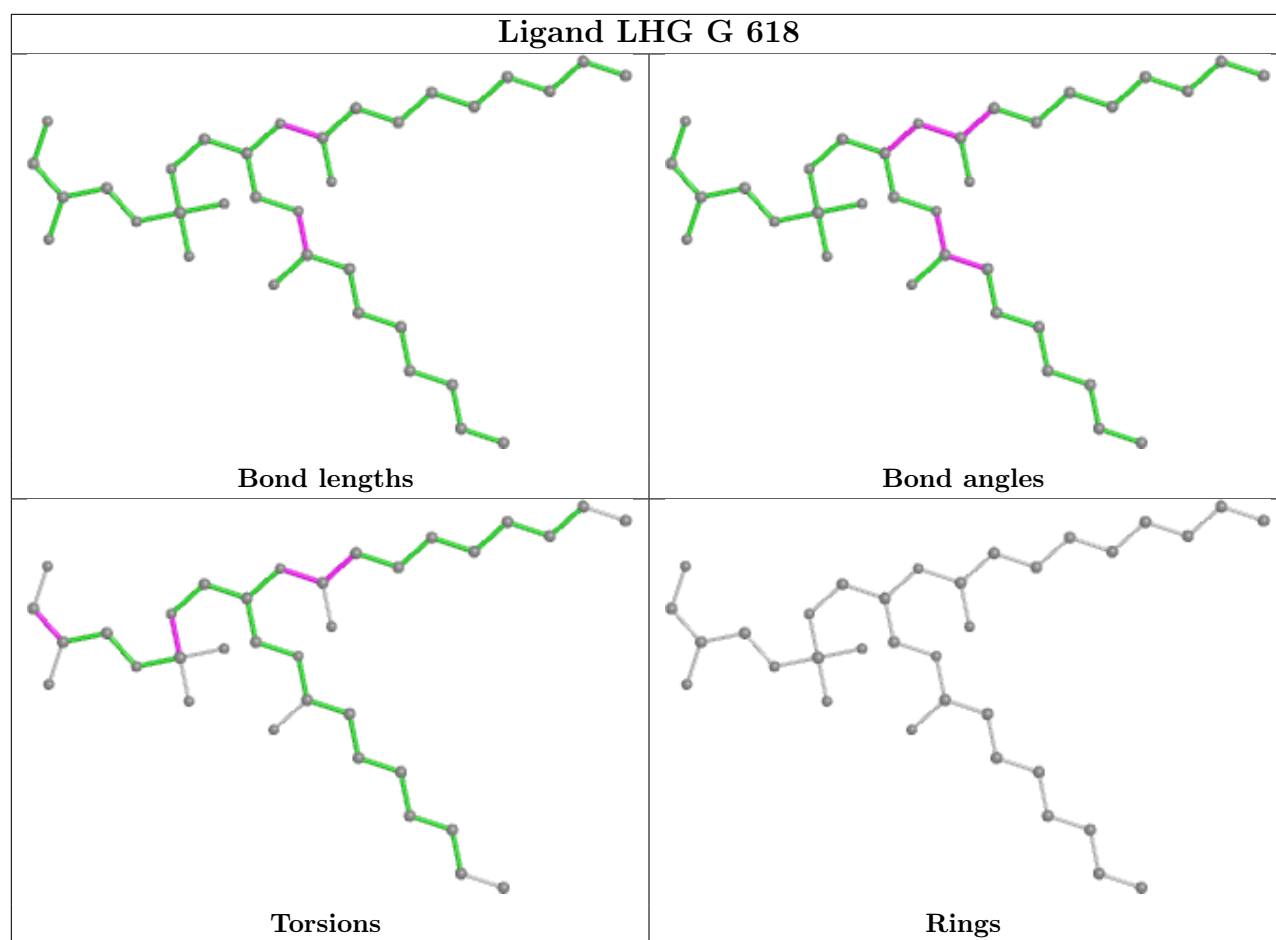
Torsions



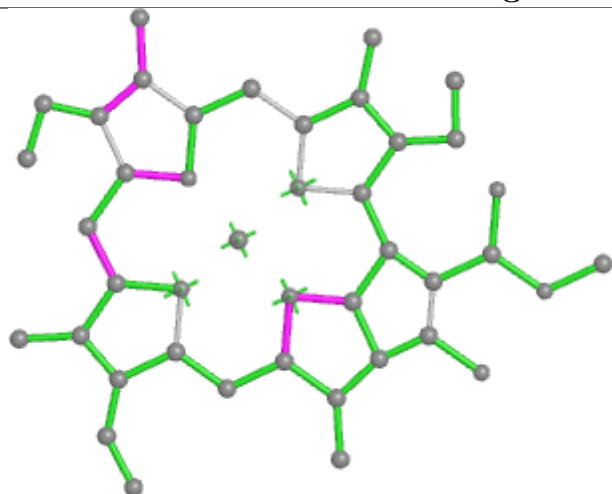
Rings

Ligand CLA R 608

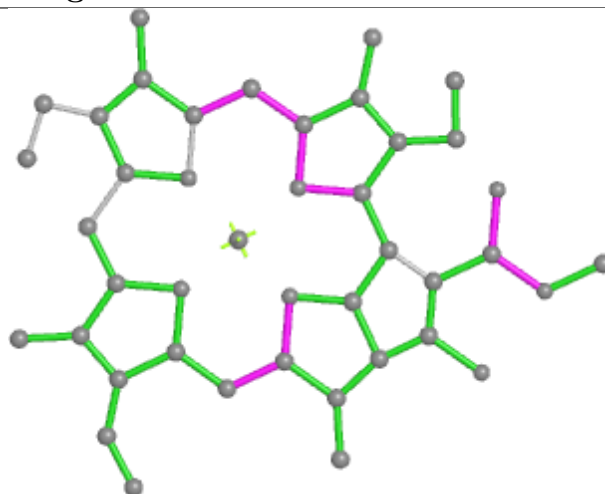




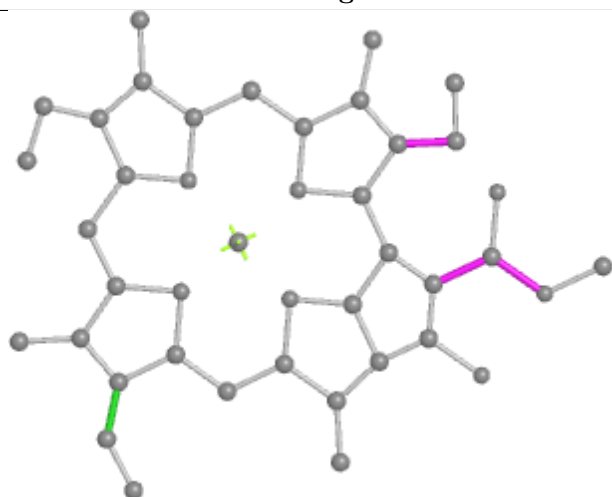
Ligand CLA Gg 305



Bond lengths



Bond angles

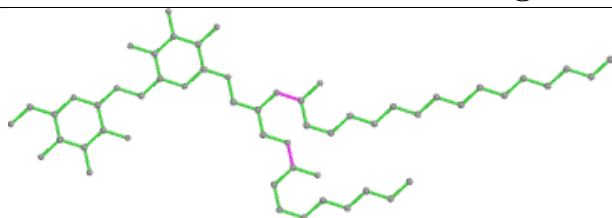


Torsions

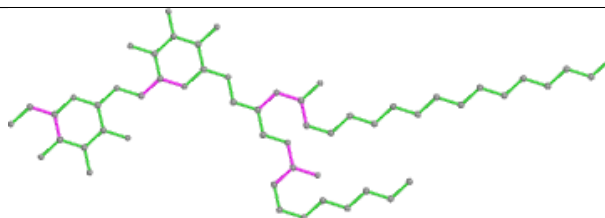


Rings

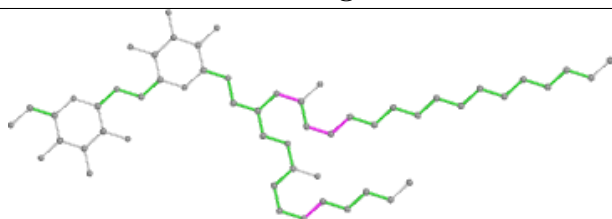
Ligand DGD c 517



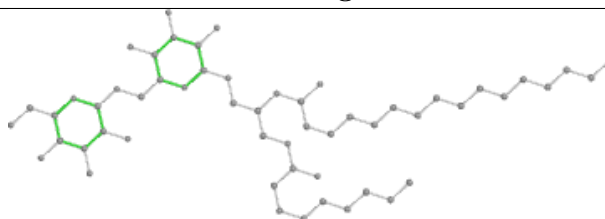
Bond lengths



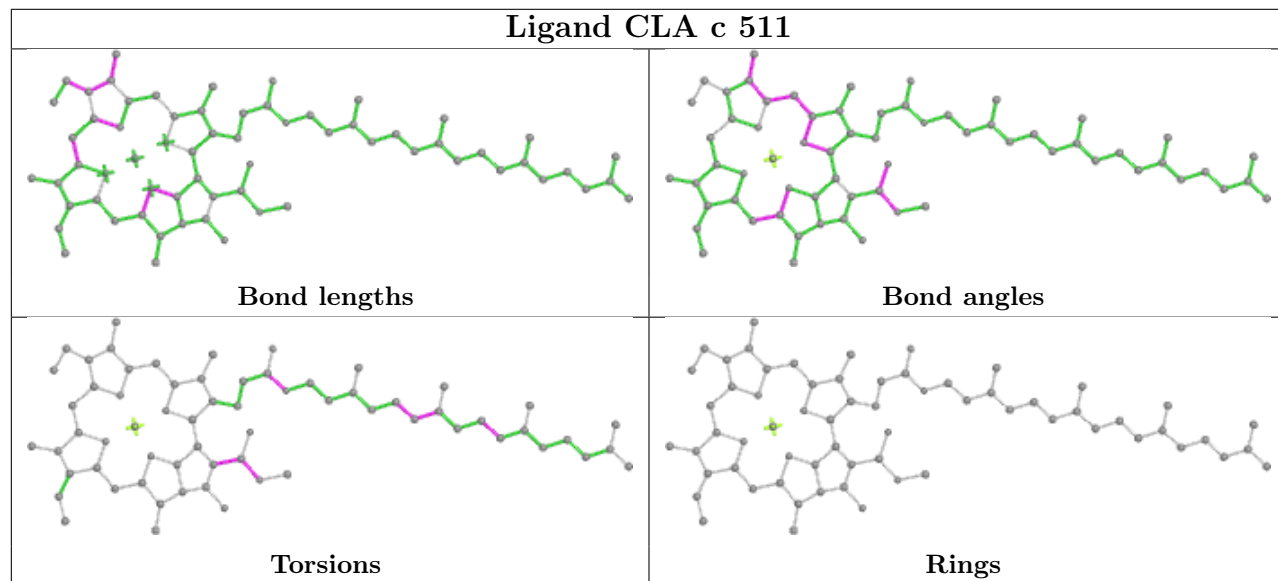
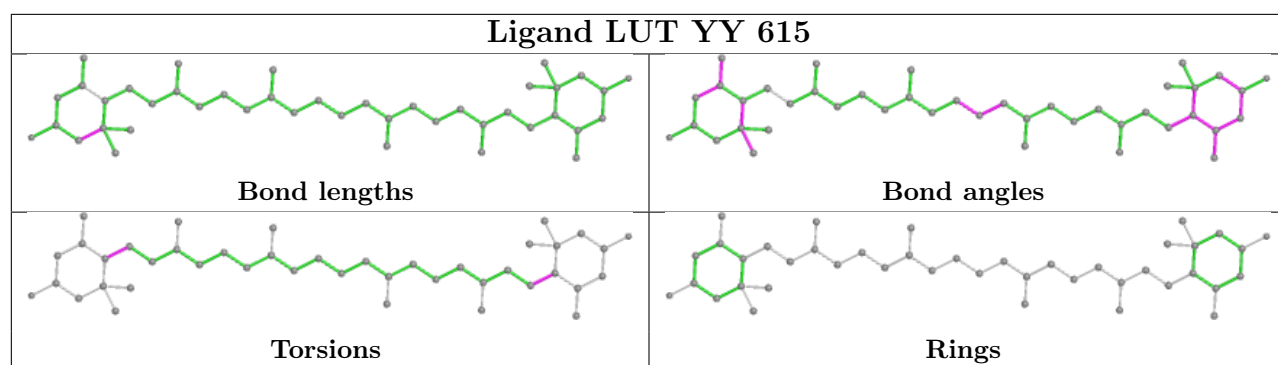
Bond angles



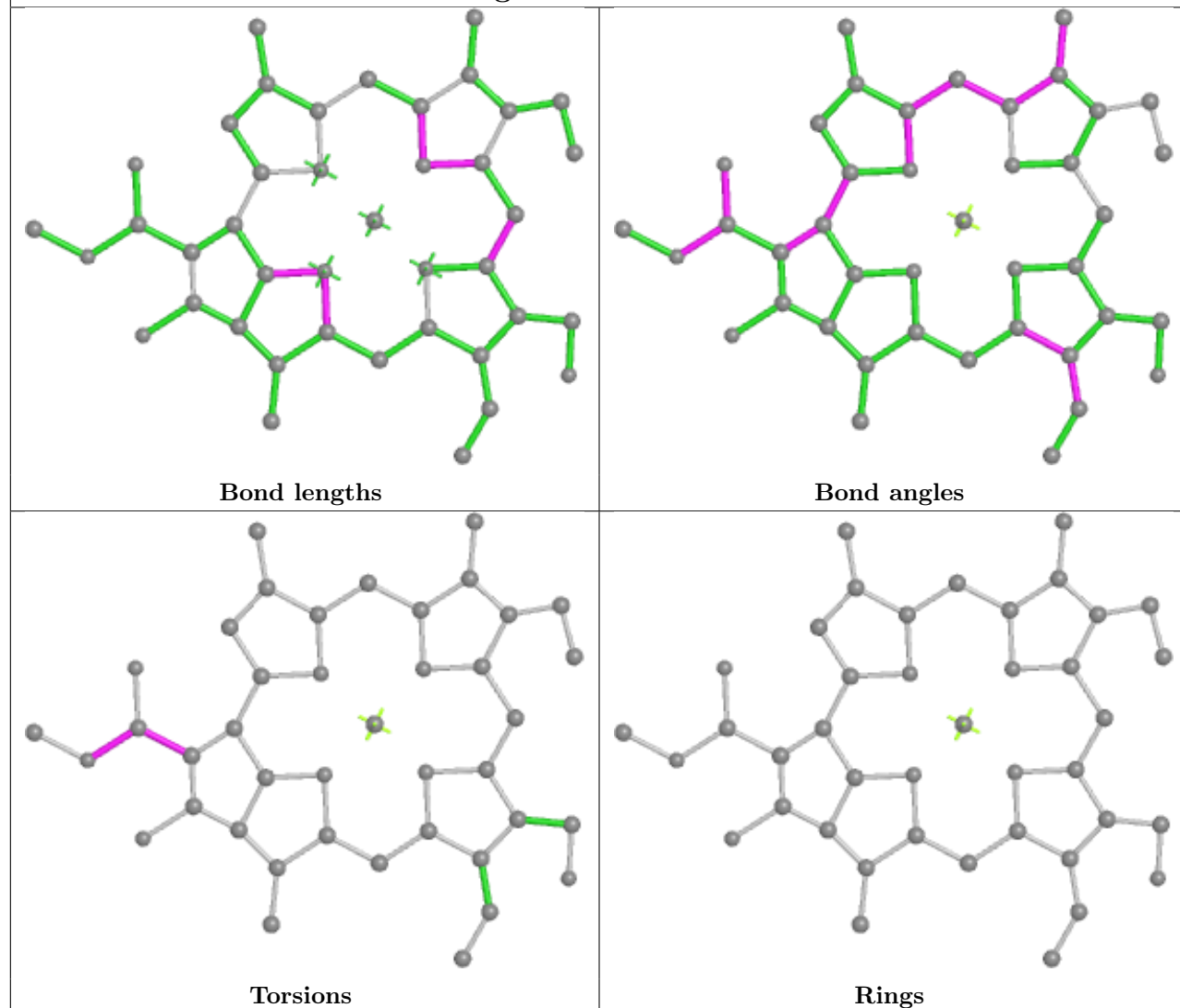
Torsions



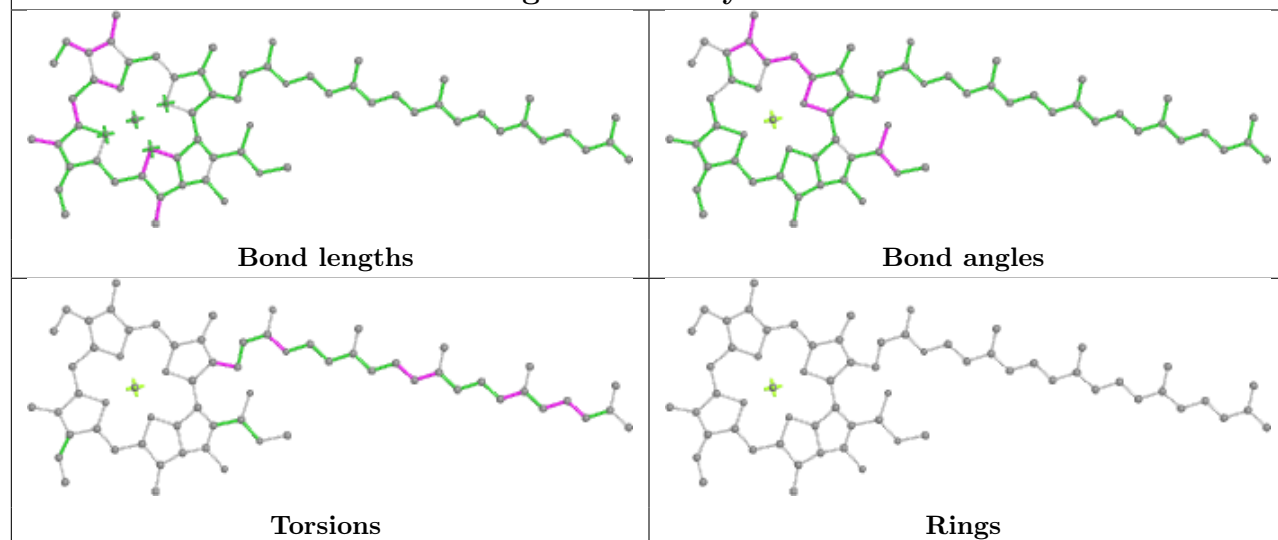
Rings

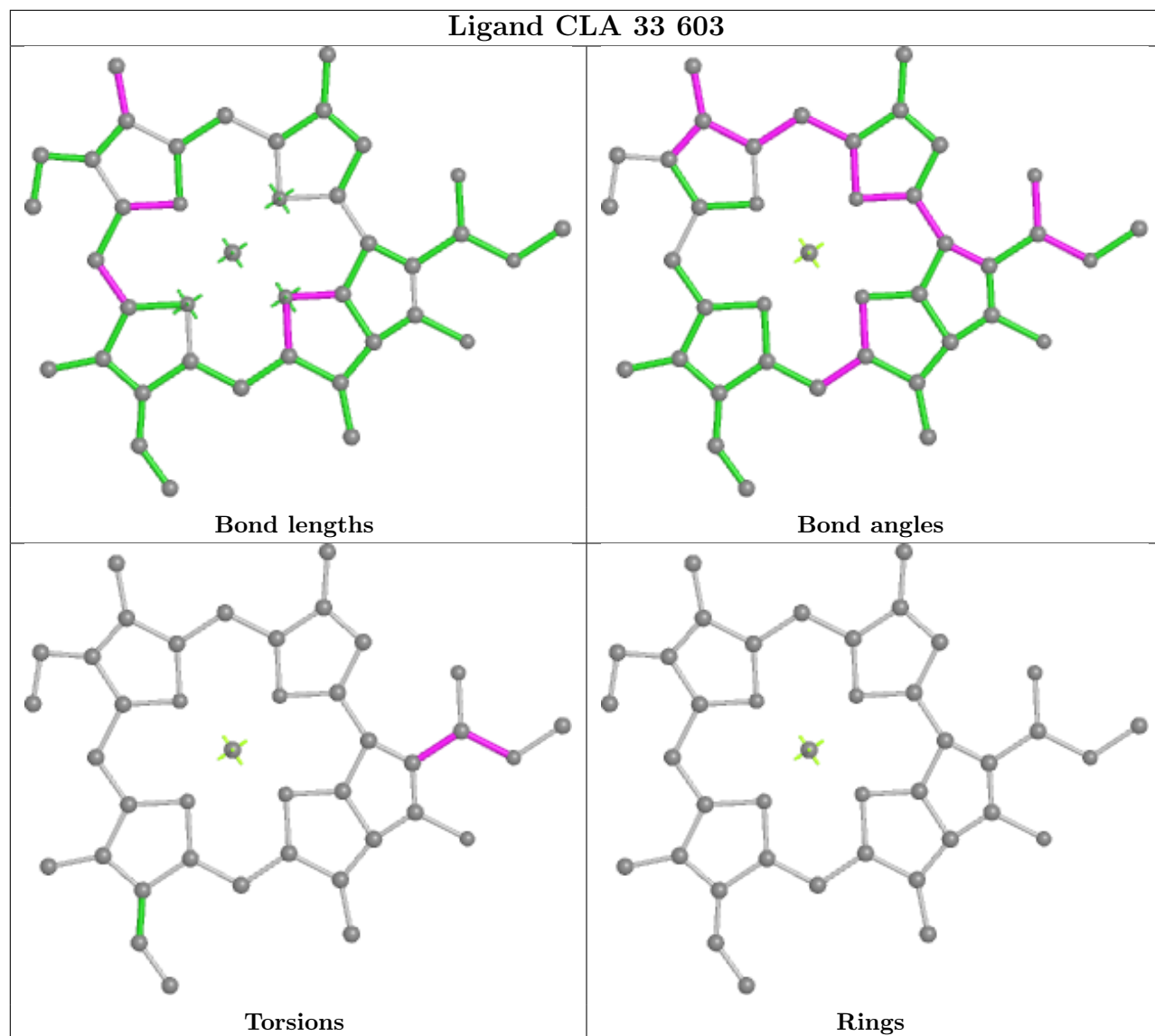


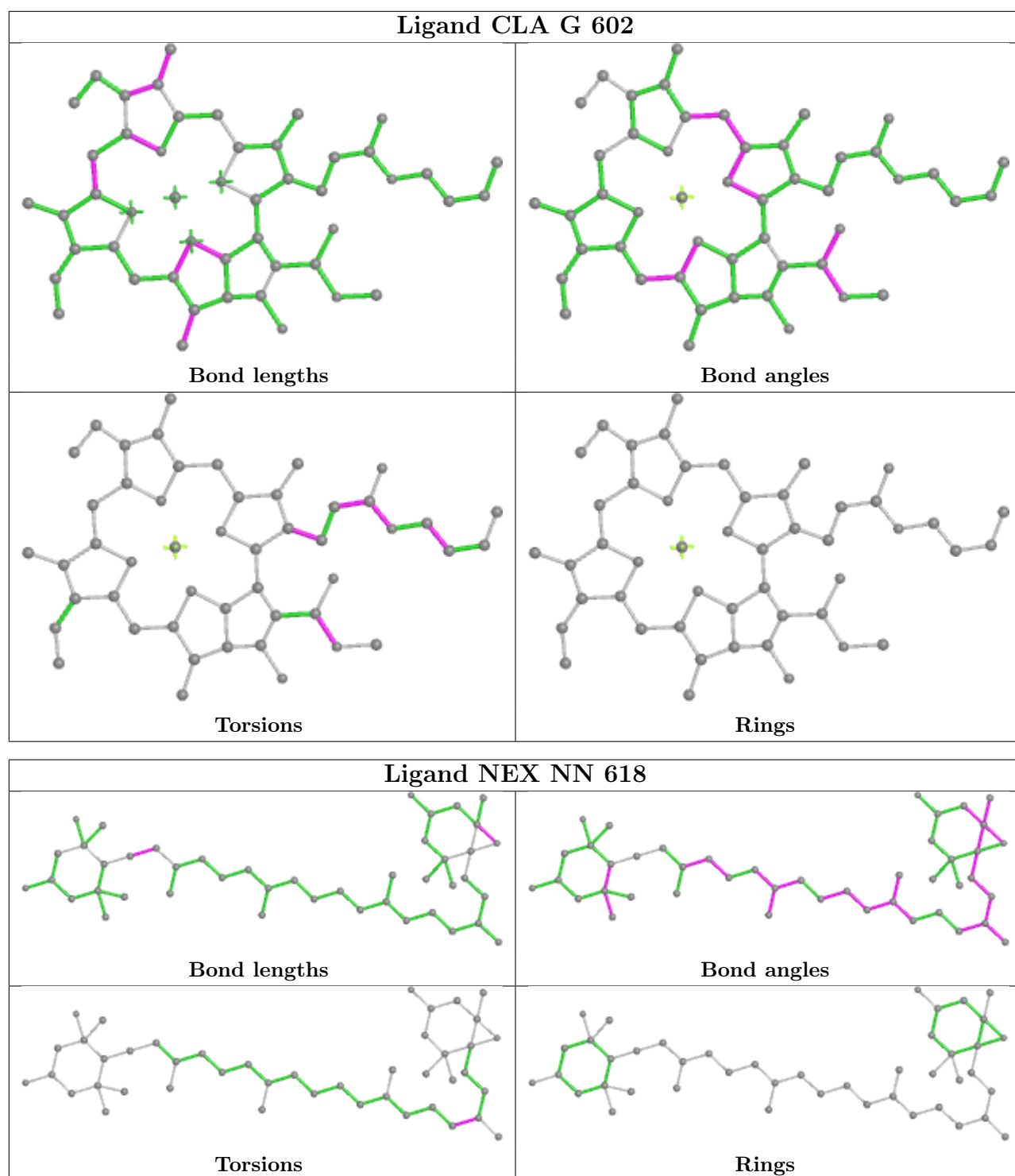
Ligand CHL 3 608



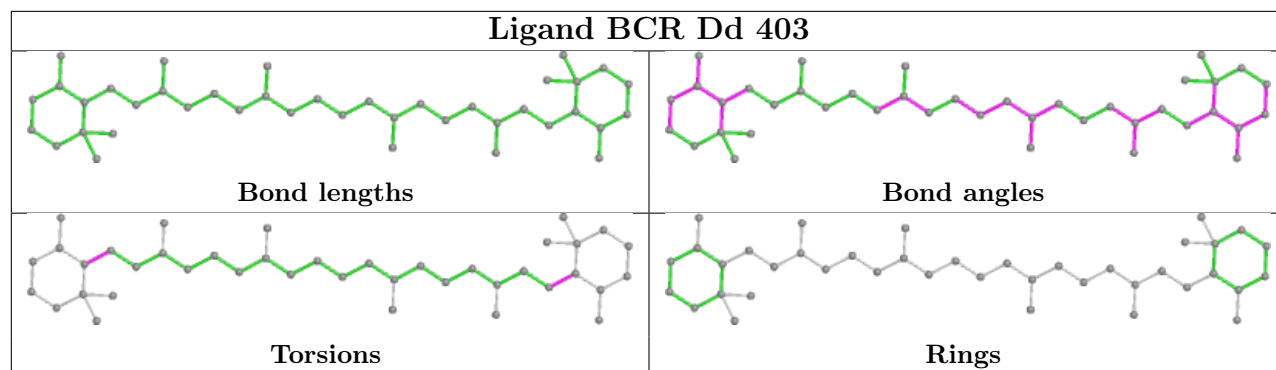
Ligand CLA Yy 610



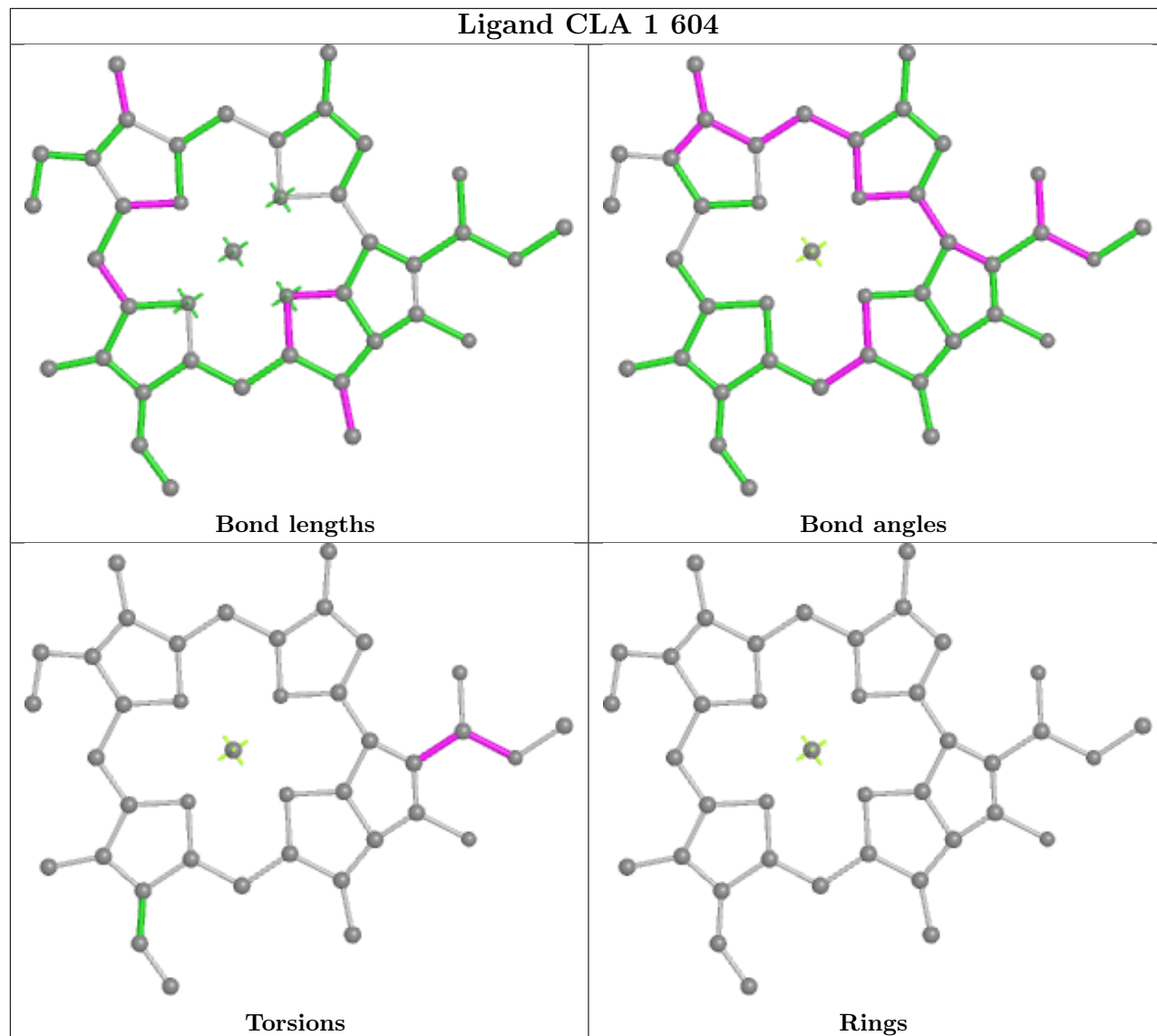


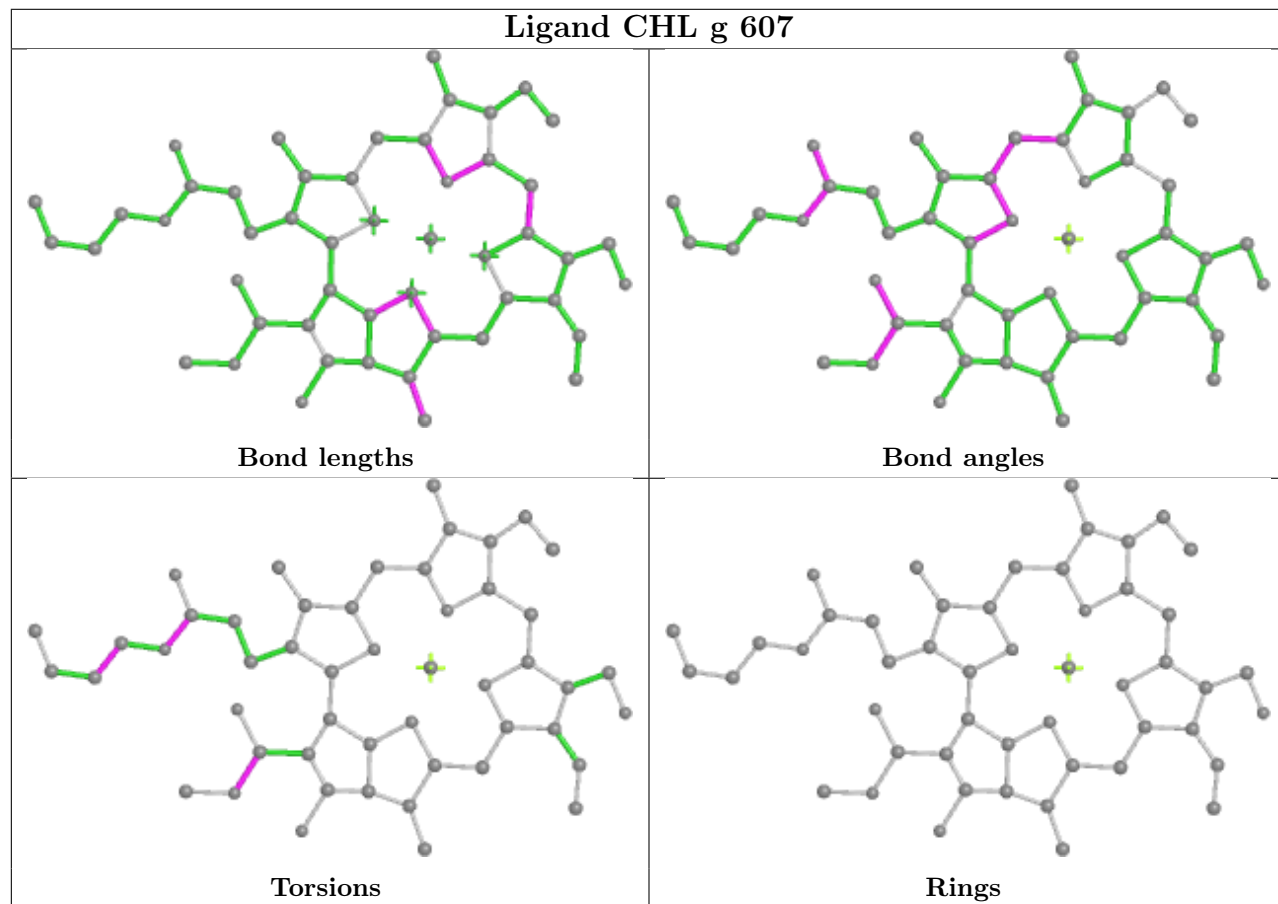
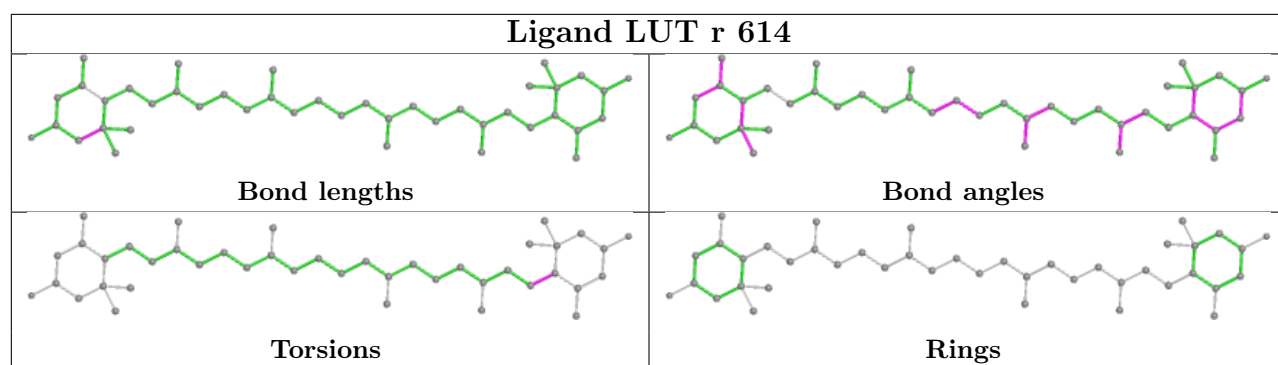


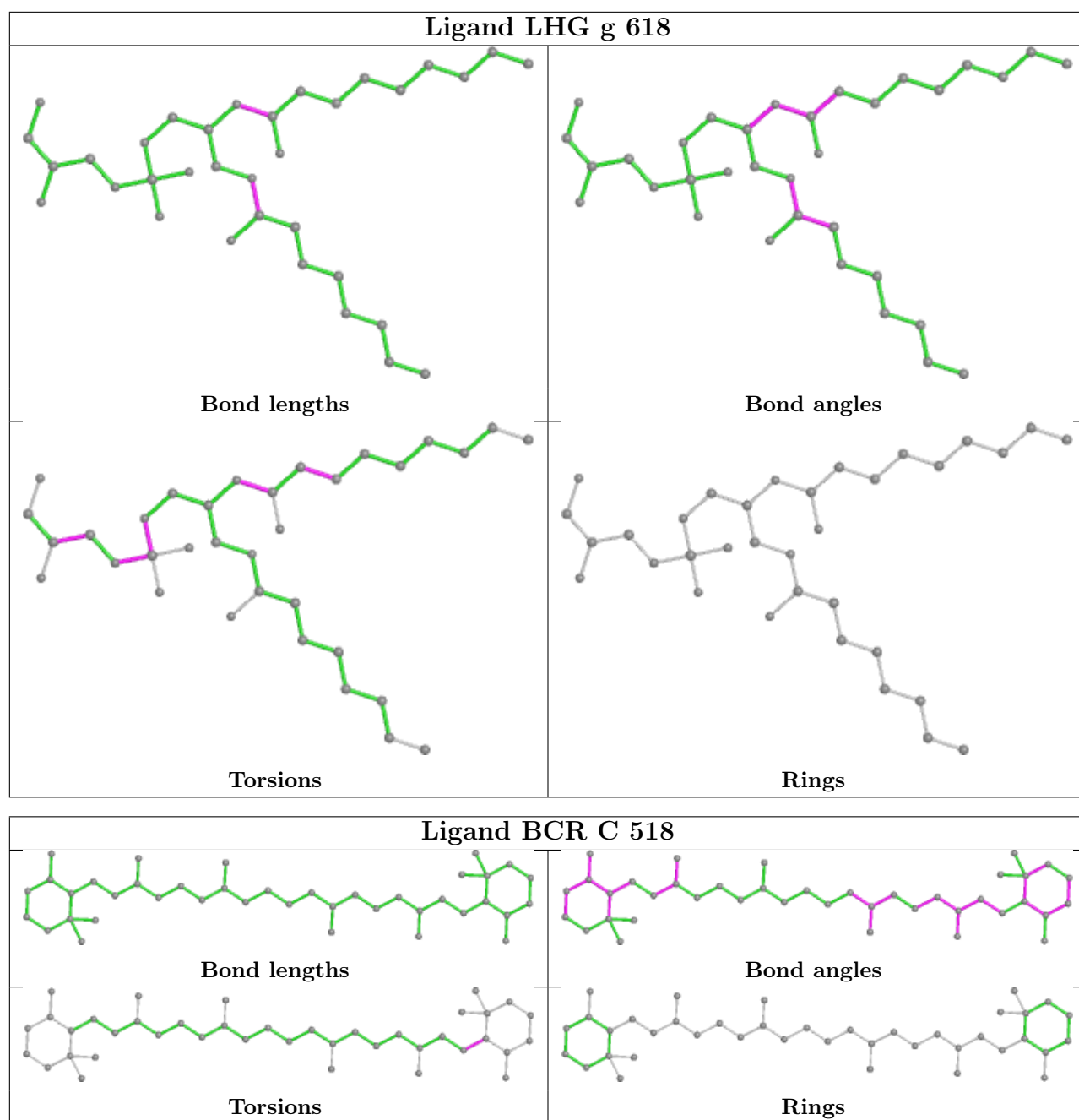
Ligand BCR Dd 403



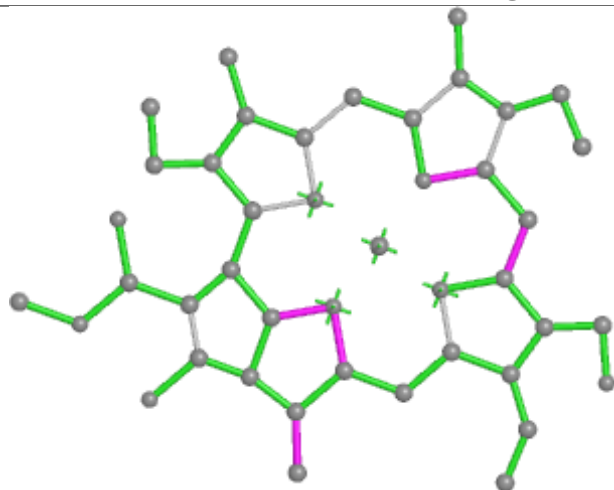
Ligand CLA 1 604



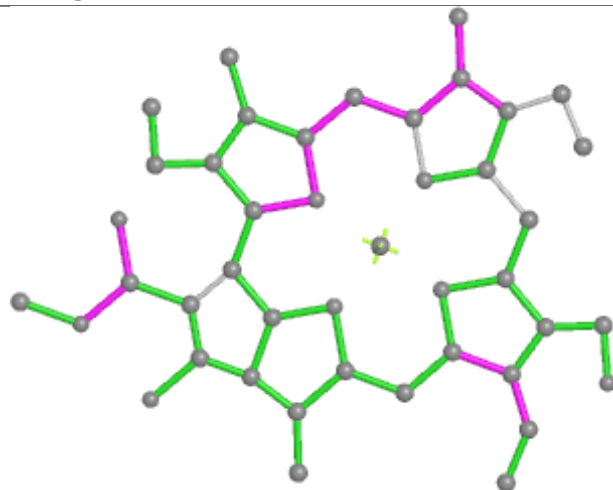




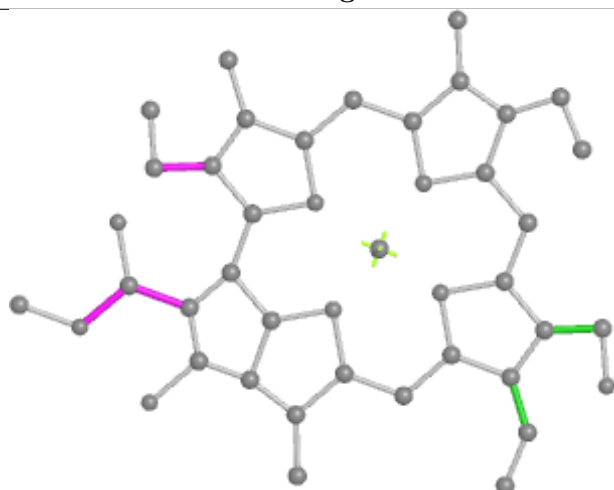
Ligand CHL Gg 310



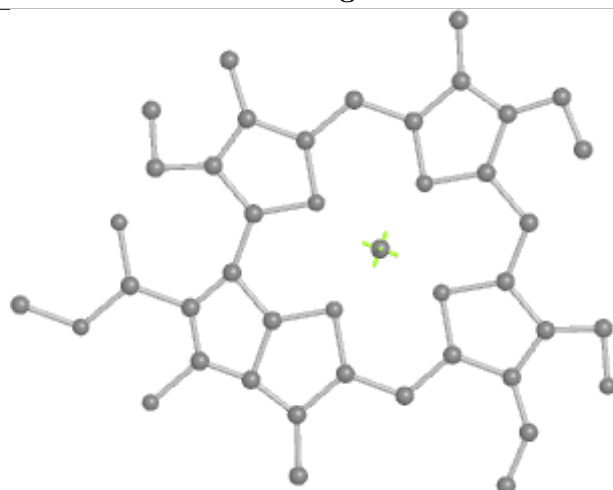
Bond lengths



Bond angles

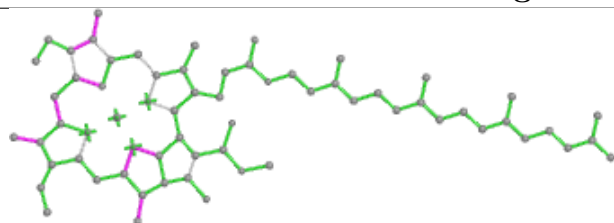


Torsions

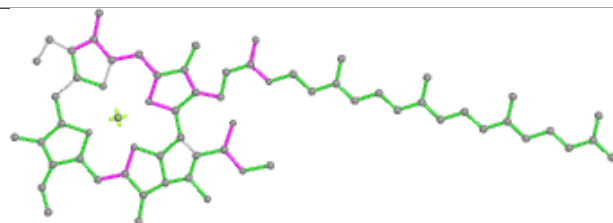


Rings

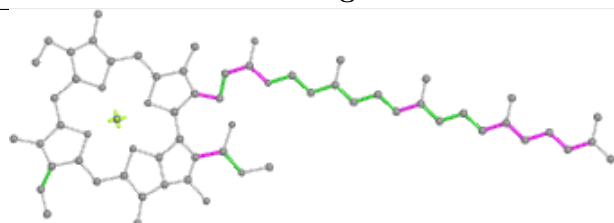
Ligand CLA R 602



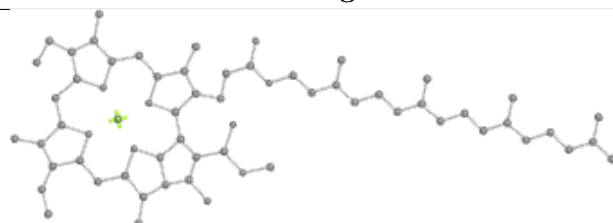
Bond lengths



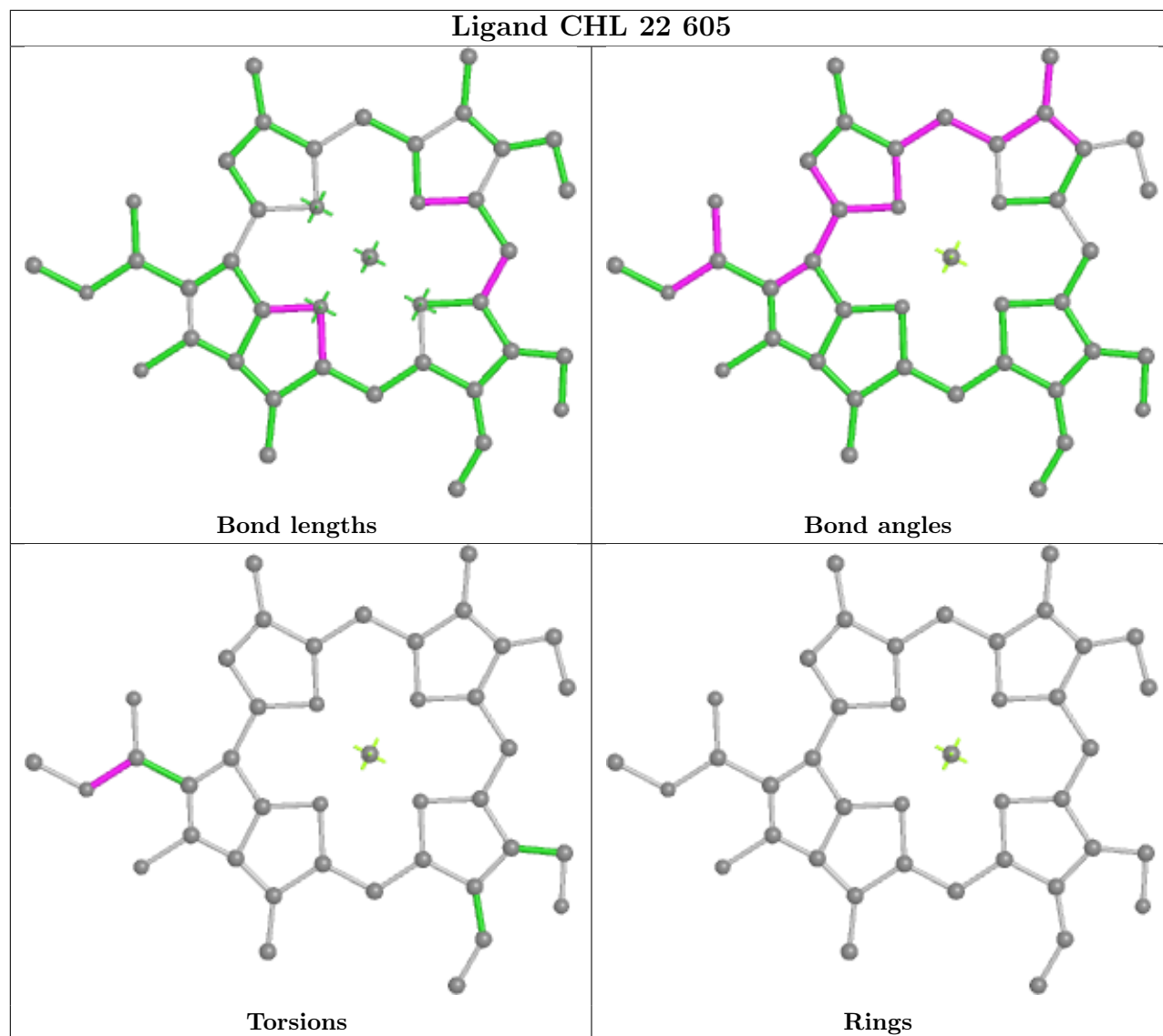
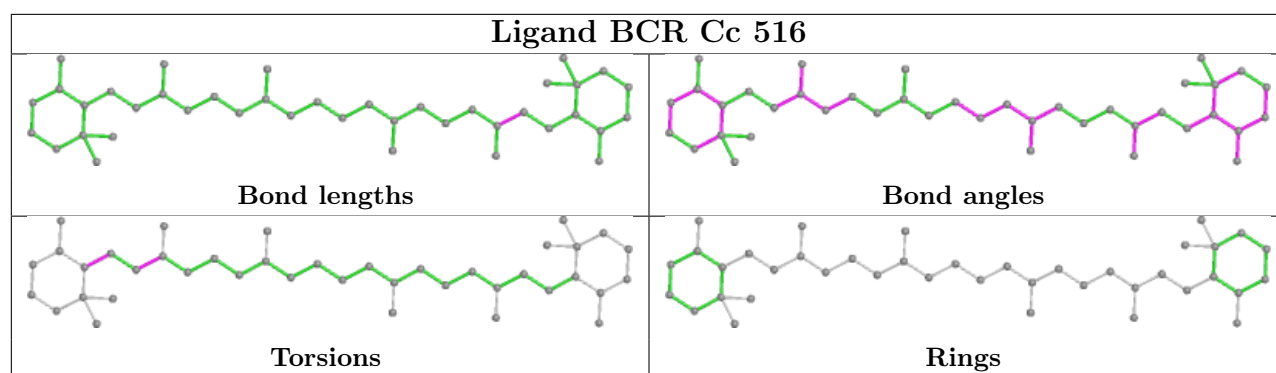
Bond angles

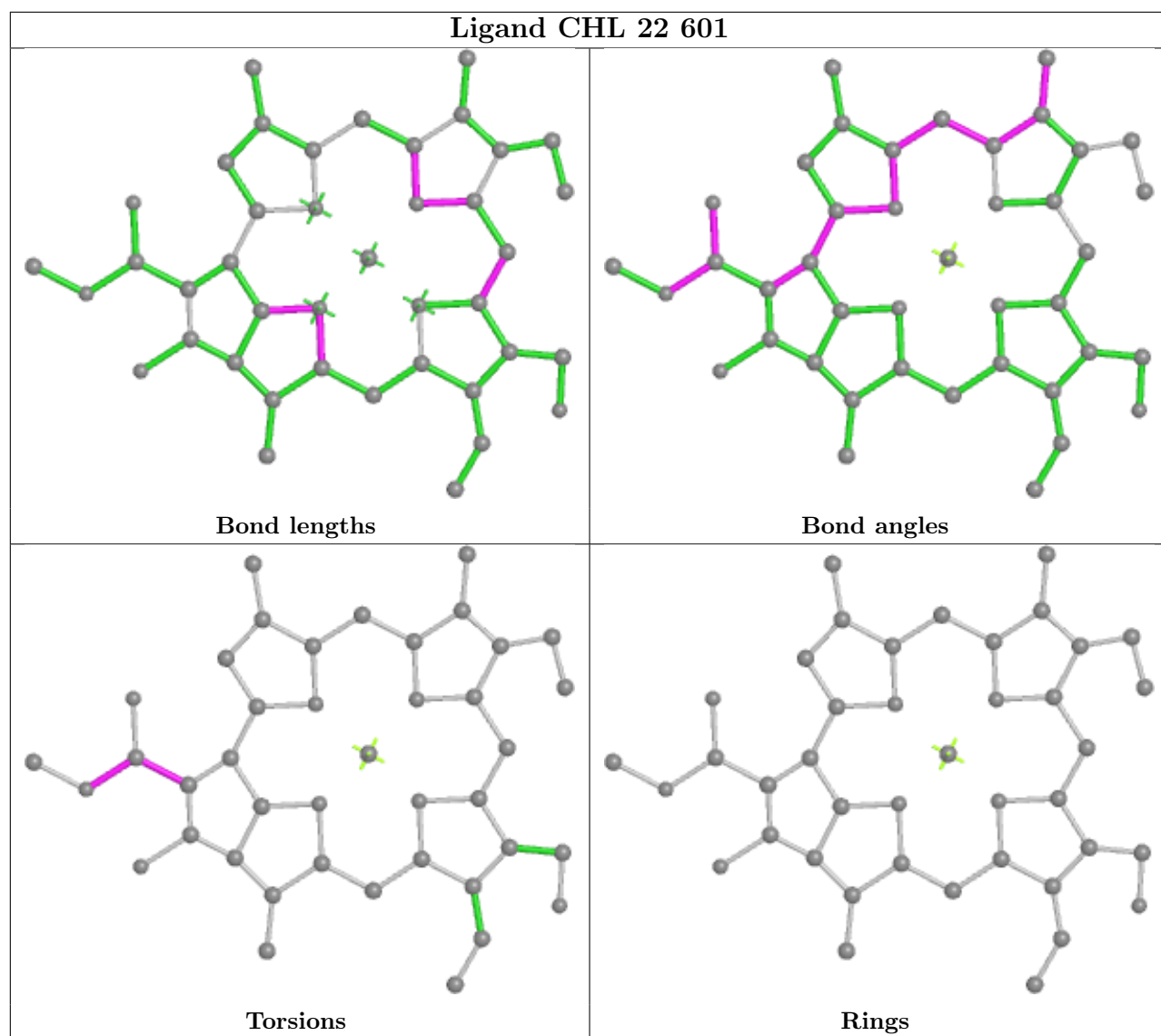
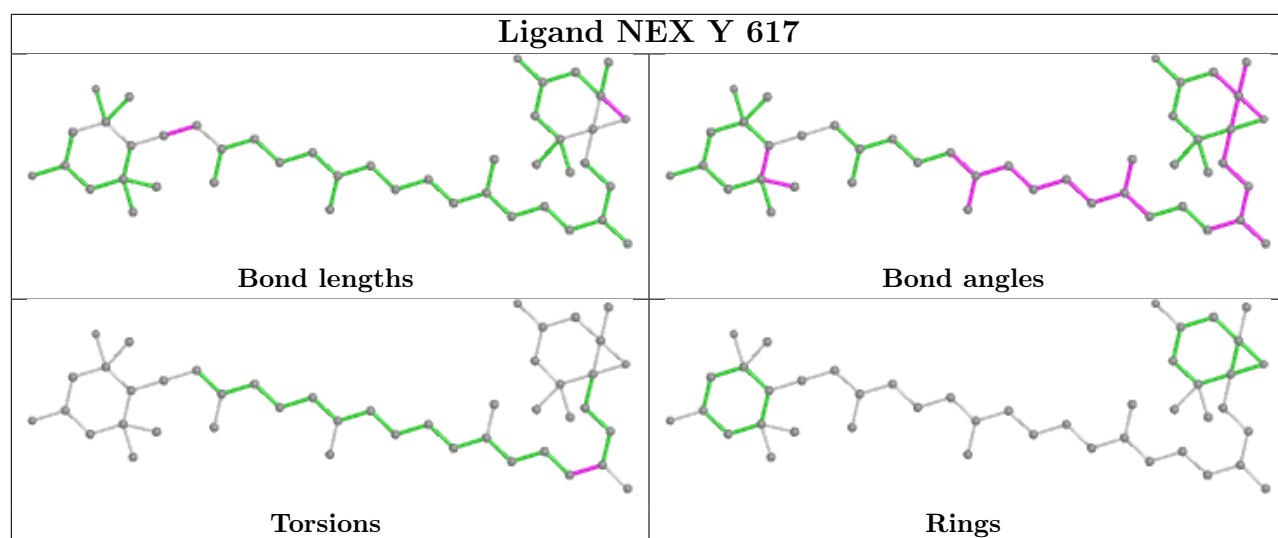


Torsions

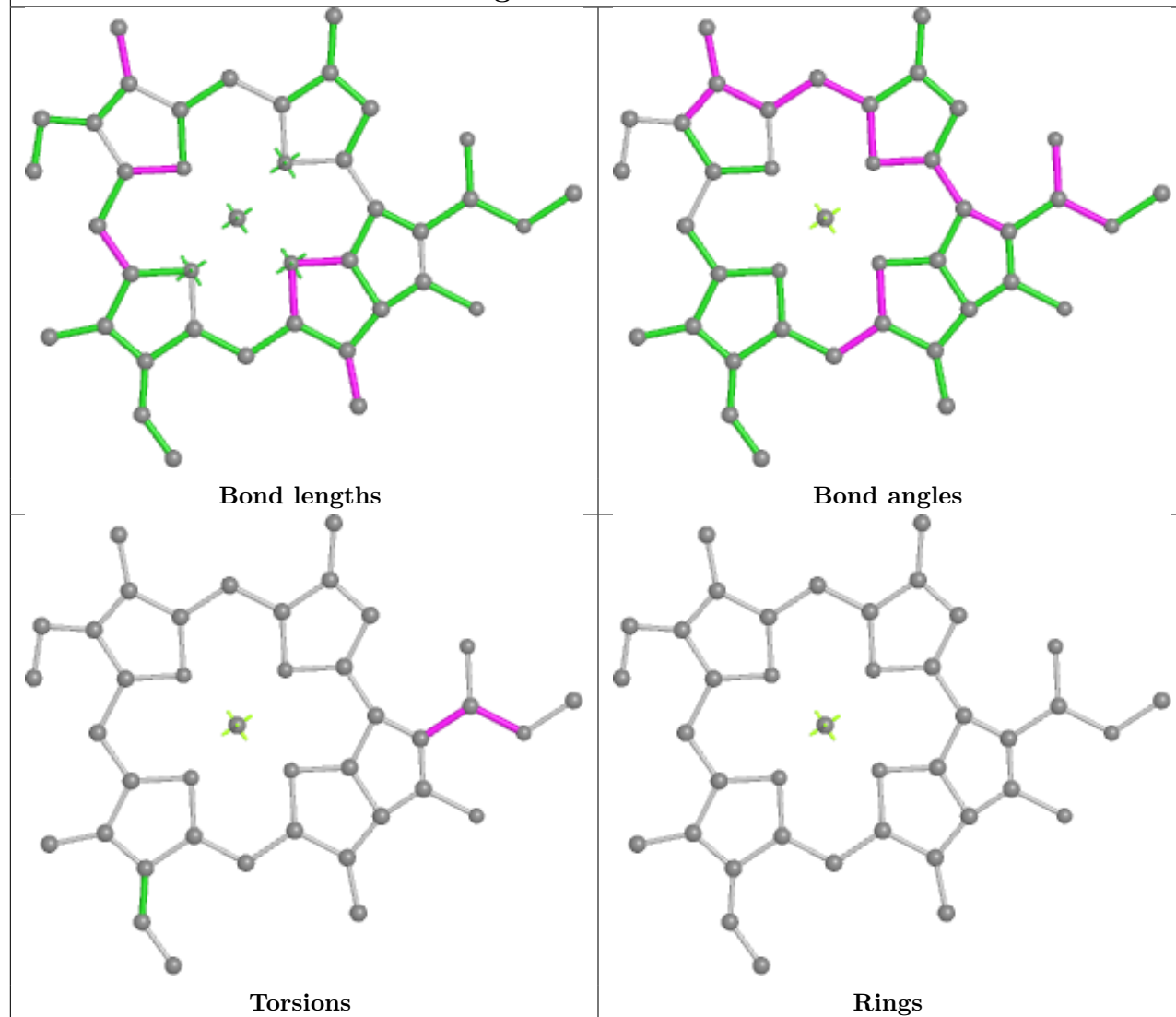


Rings

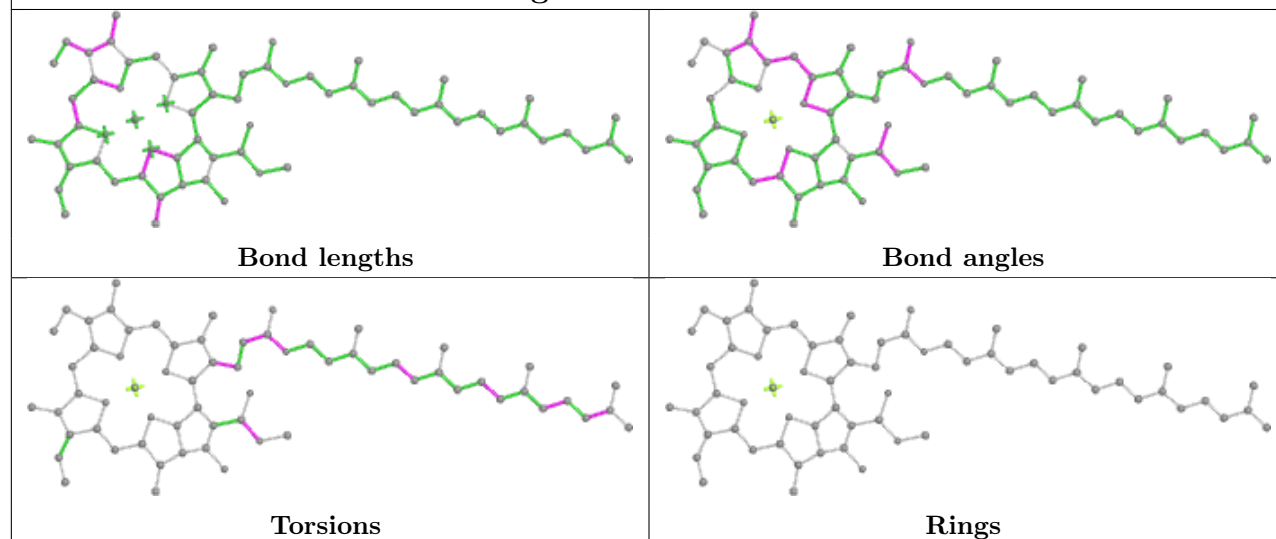




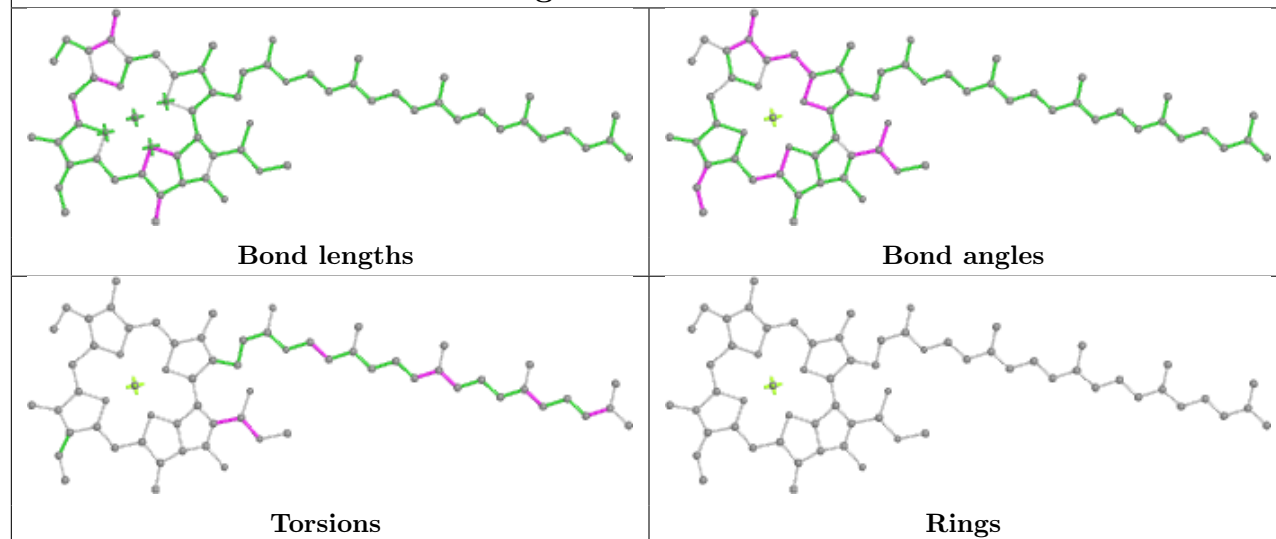
Ligand CLA 2 610



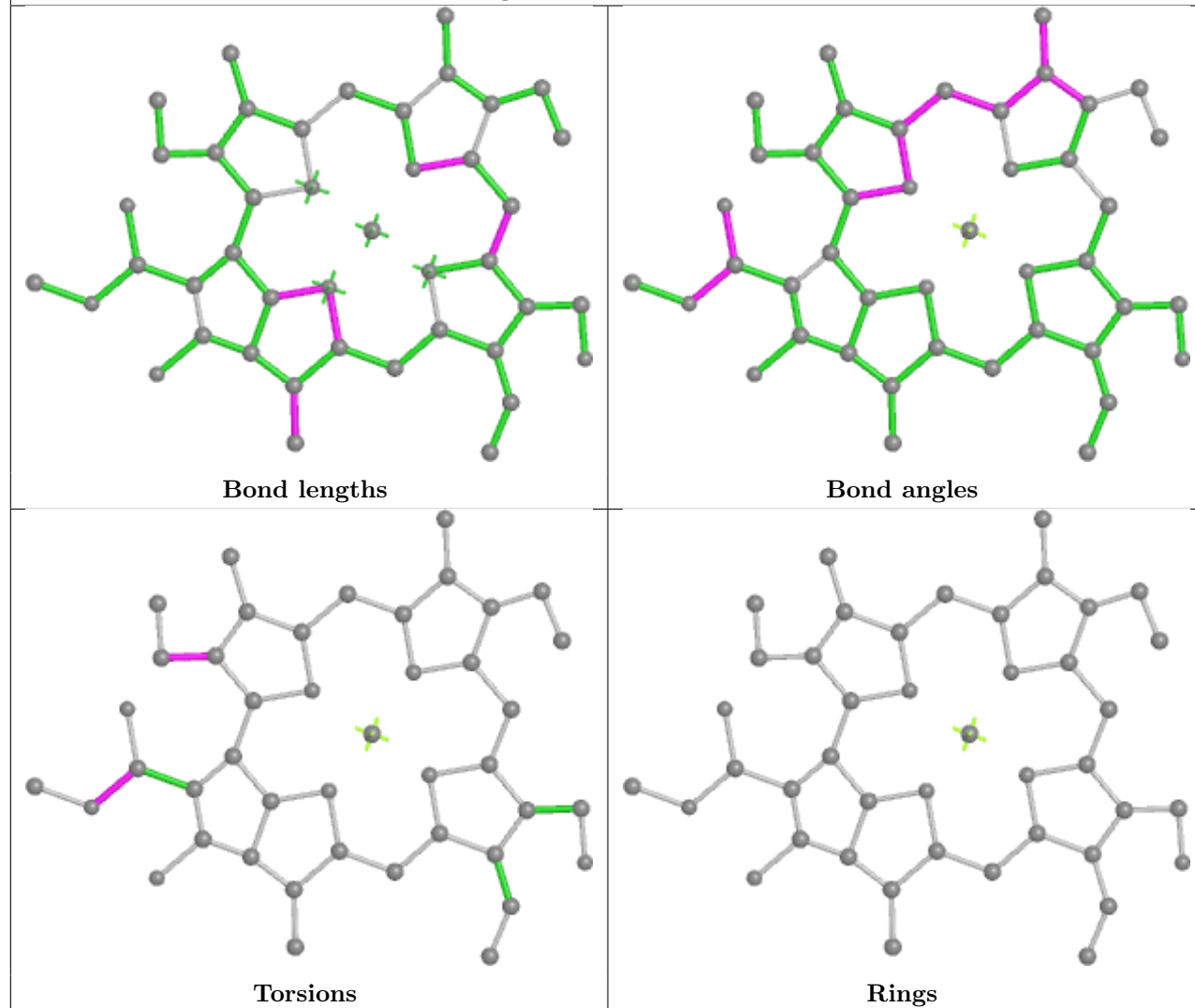
Ligand CLA G 603



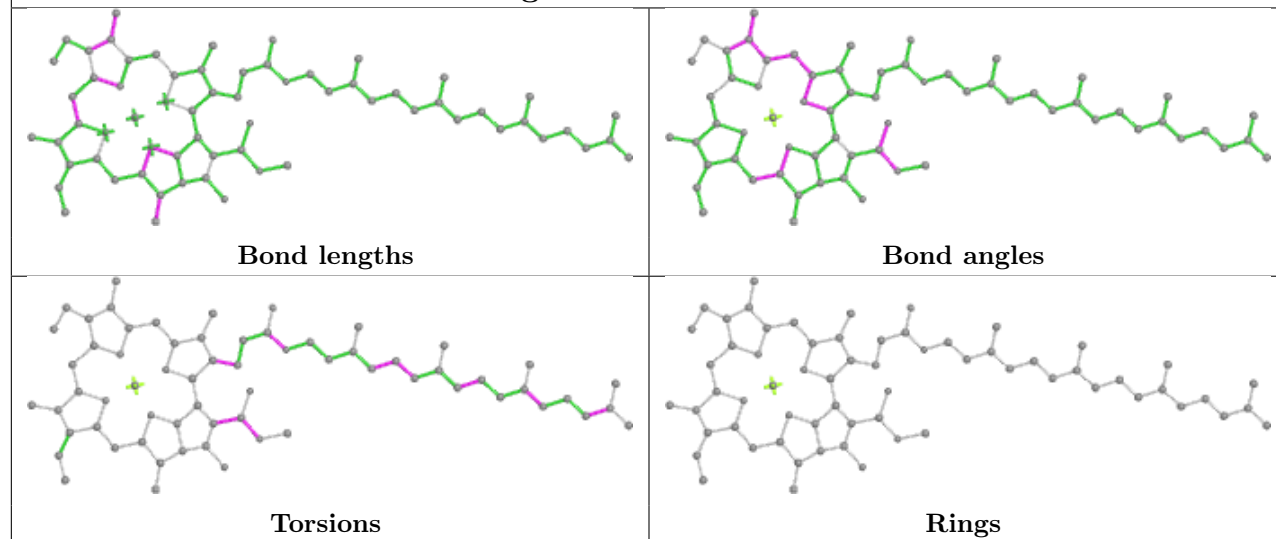
Ligand CLA b 602



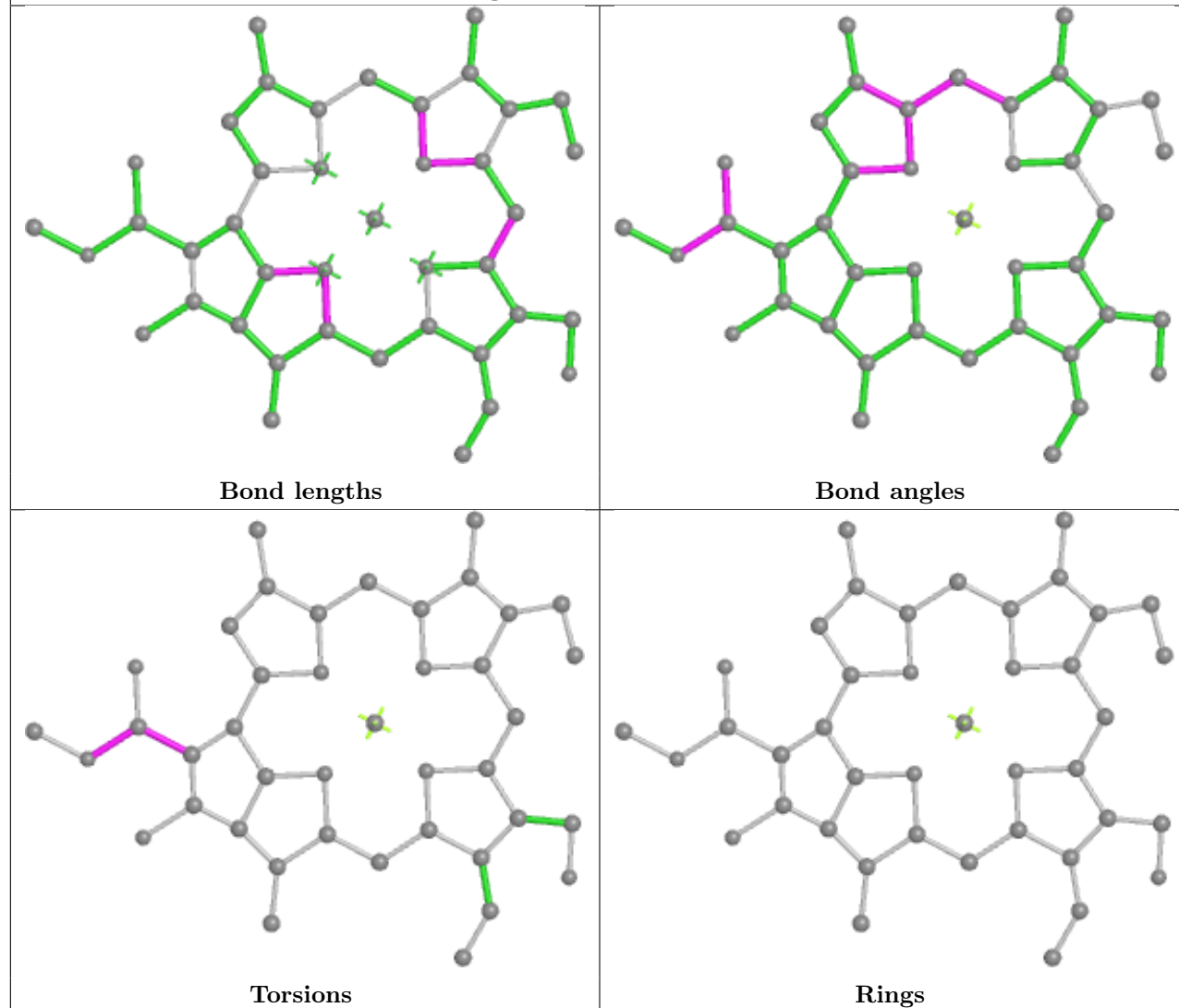
Ligand CHL G 609

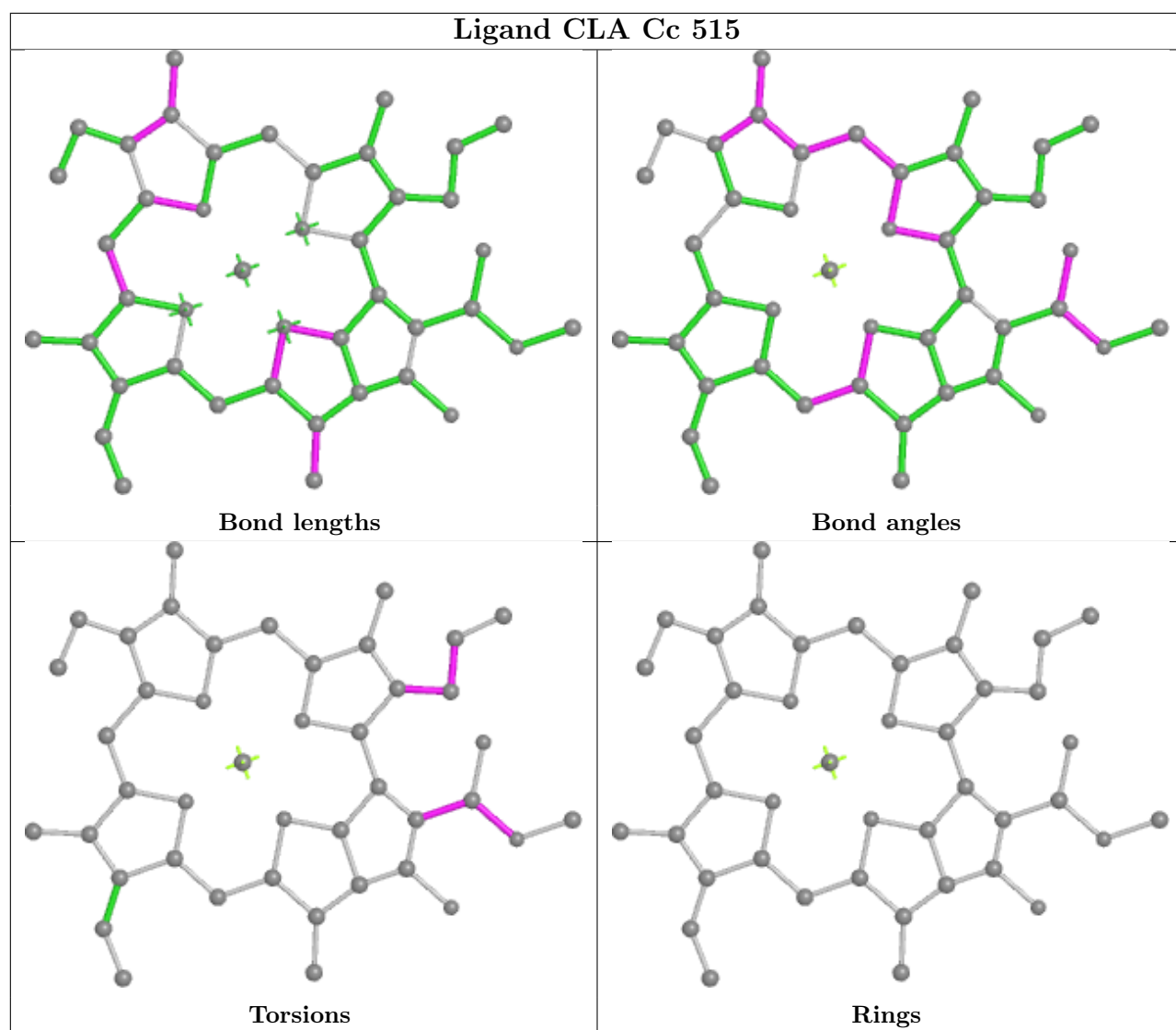


Ligand CLA Dd 402

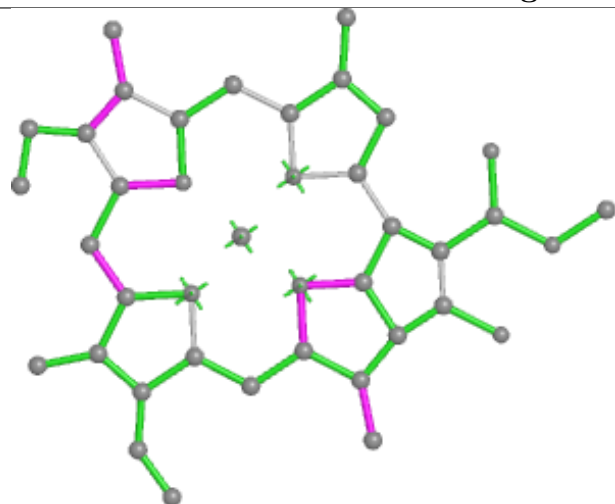


Ligand CHL 33 601

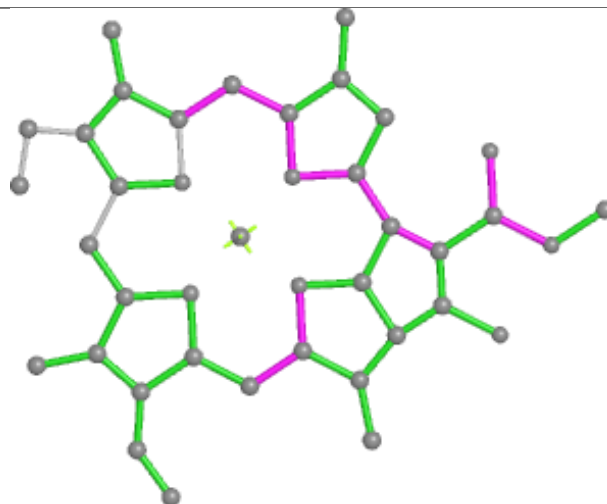




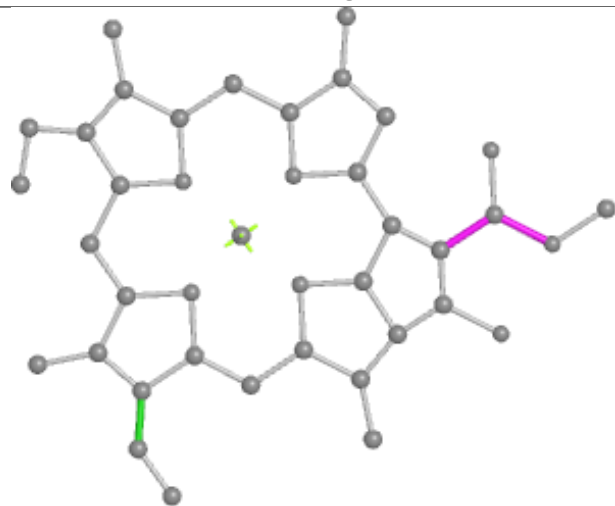
Ligand CLA 1 603



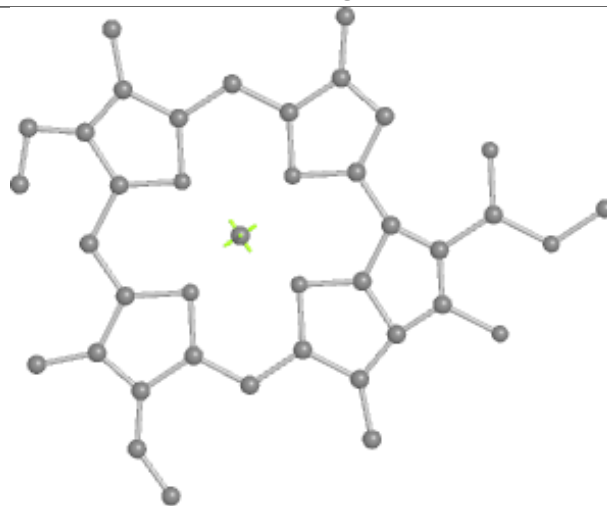
Bond lengths



Bond angles

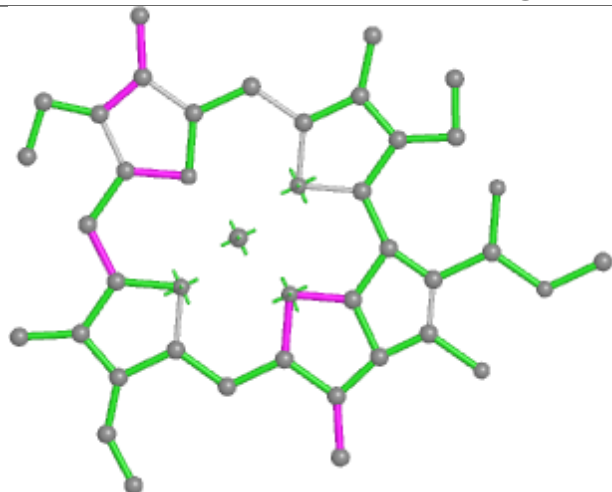


Torsions

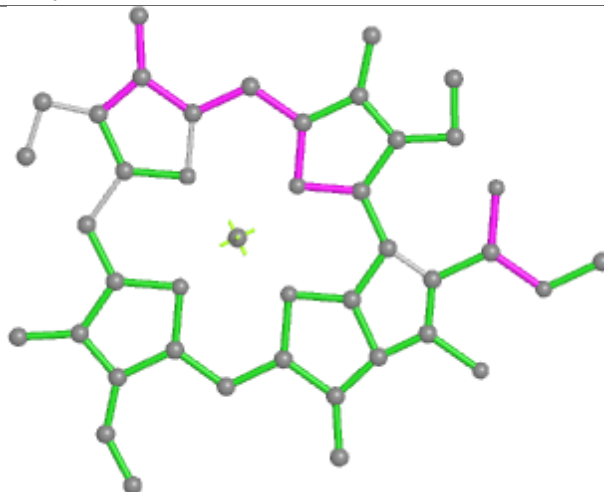


Rings

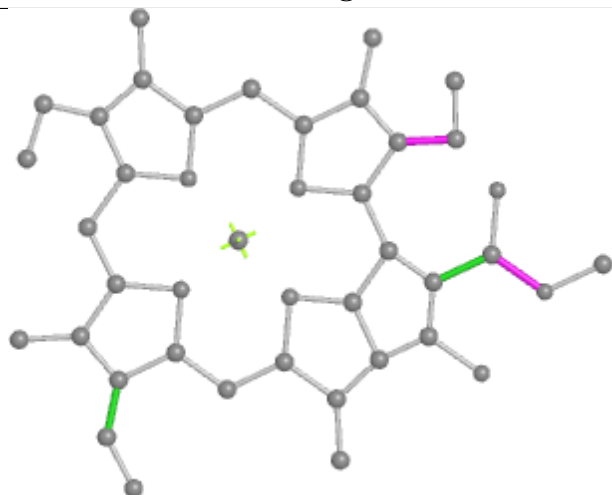
Ligand CLA y 313



Bond lengths



Bond angles

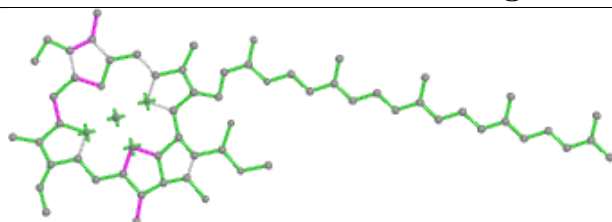


Torsions

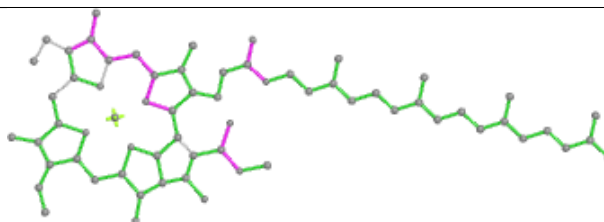


Rings

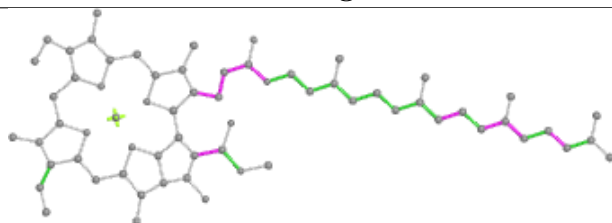
Ligand CLA Bb 616



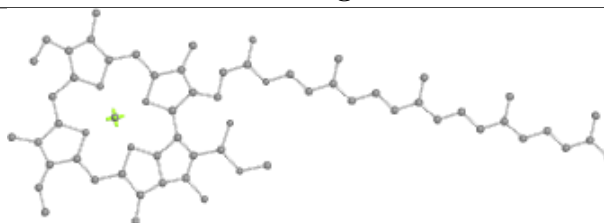
Bond lengths



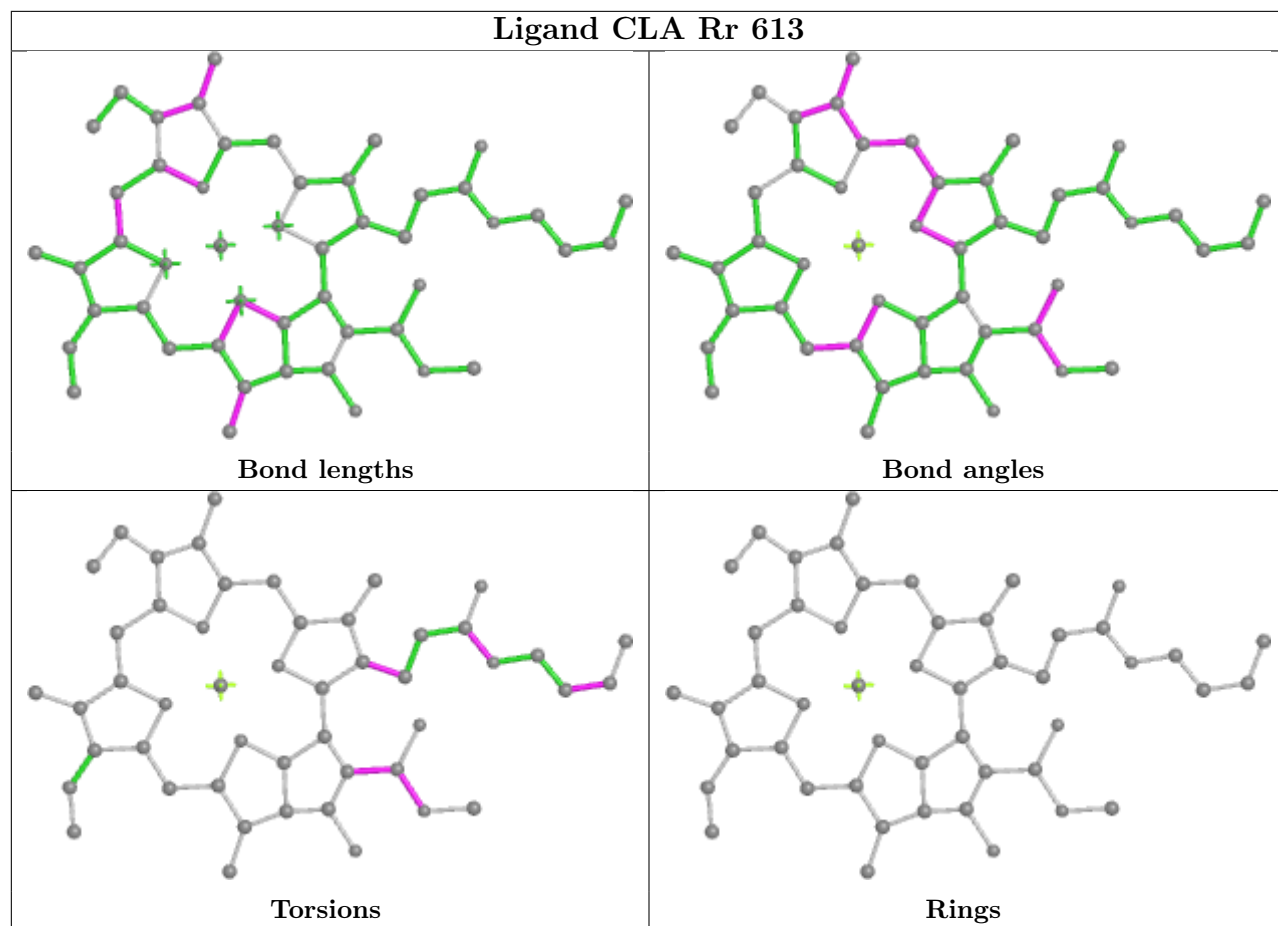
Bond angles



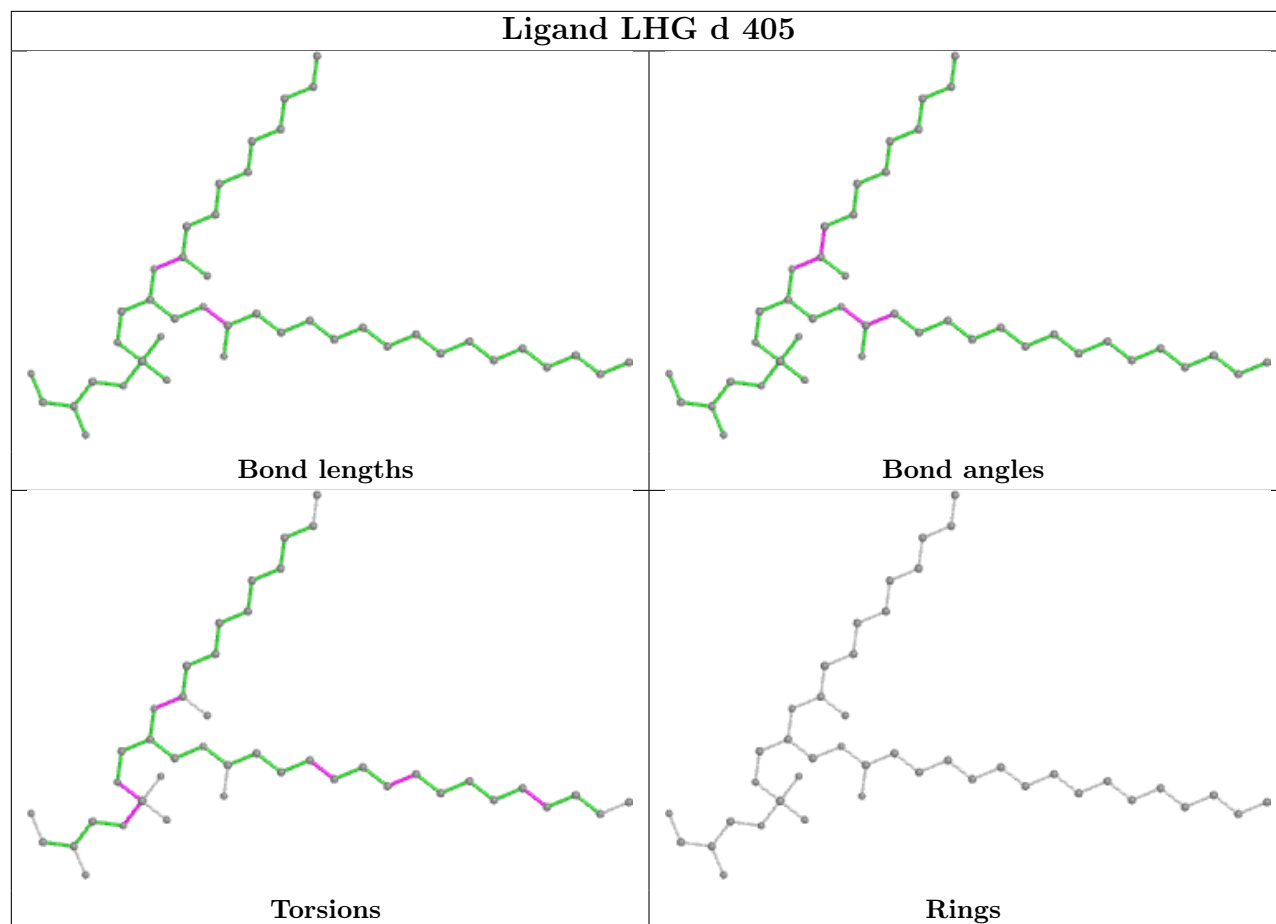
Torsions

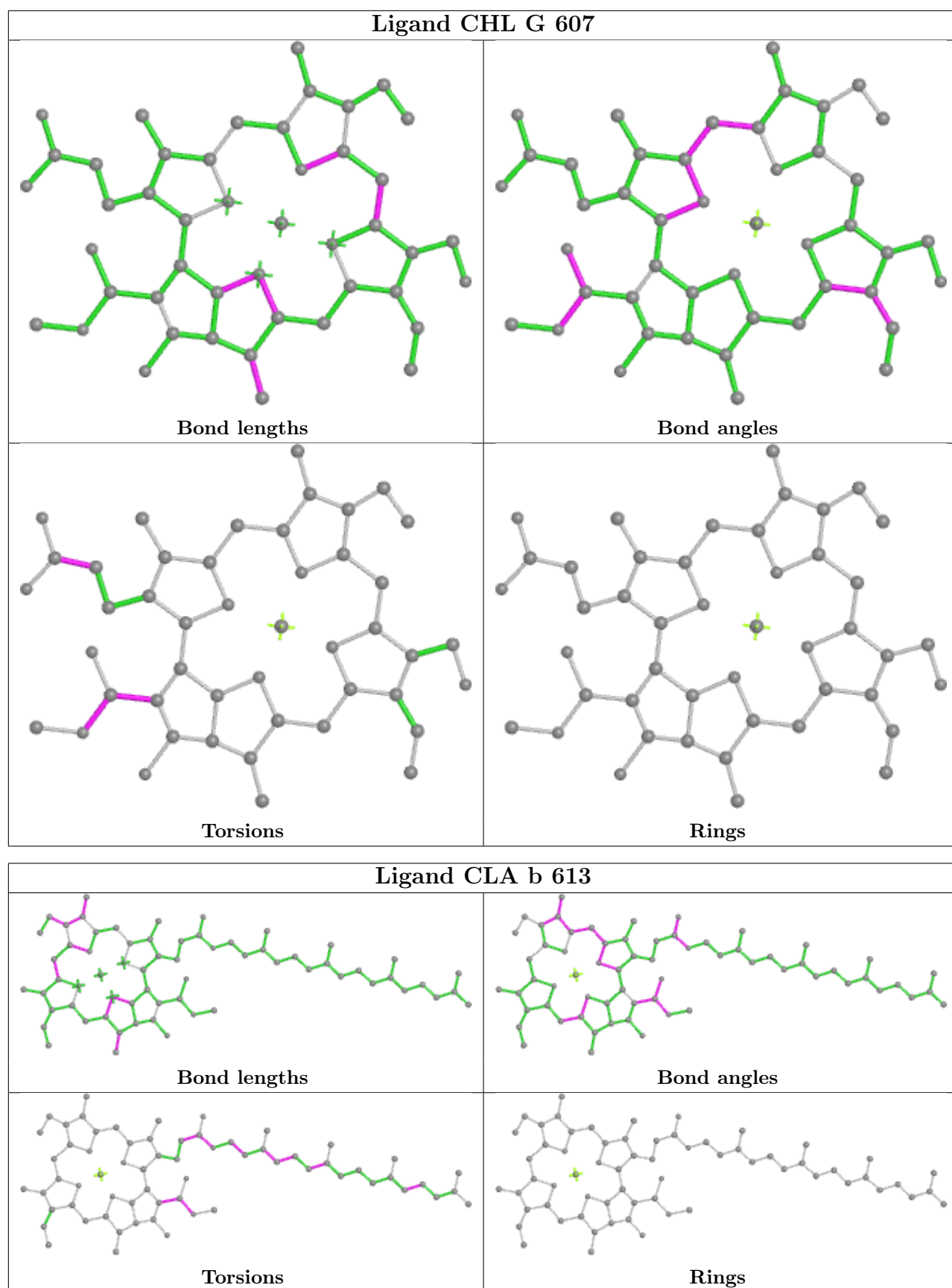


Rings

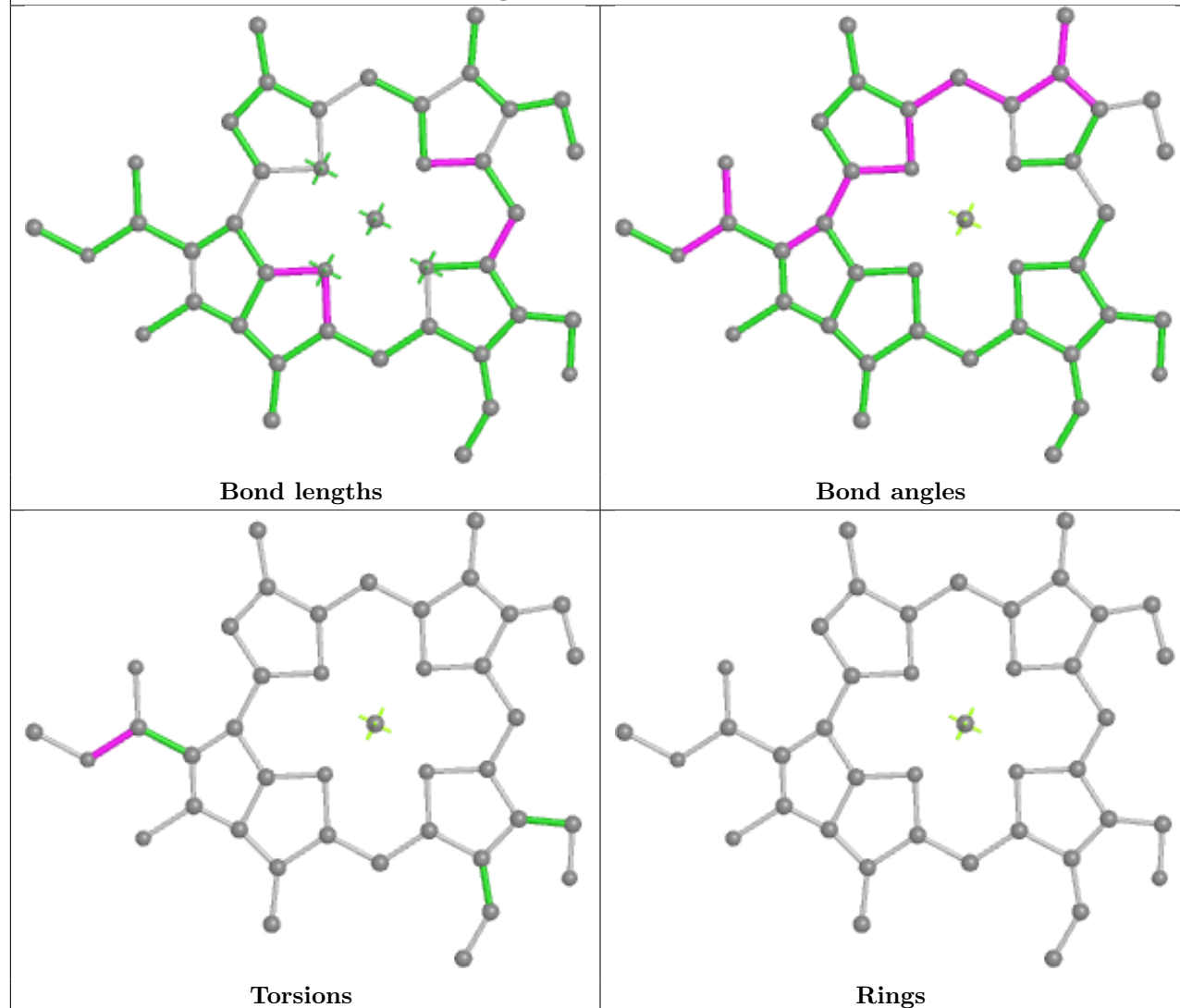


Ligand LHG d 405

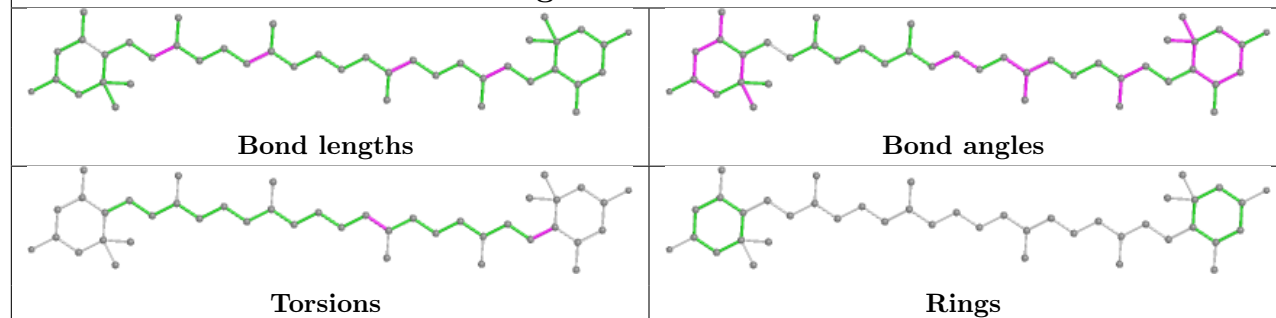




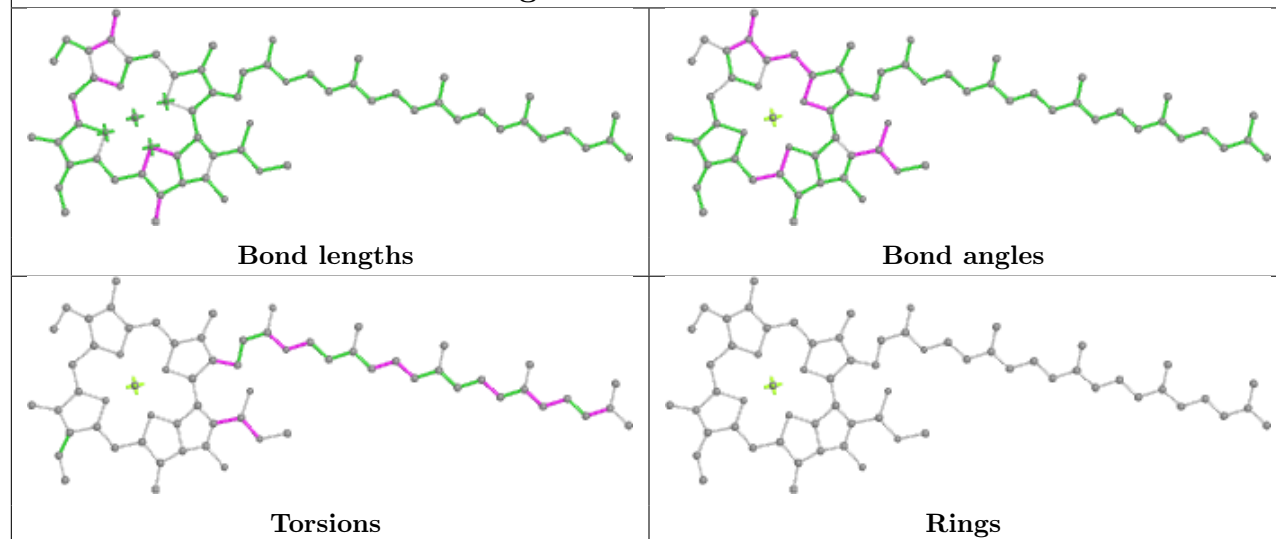
Ligand CHL 2 605



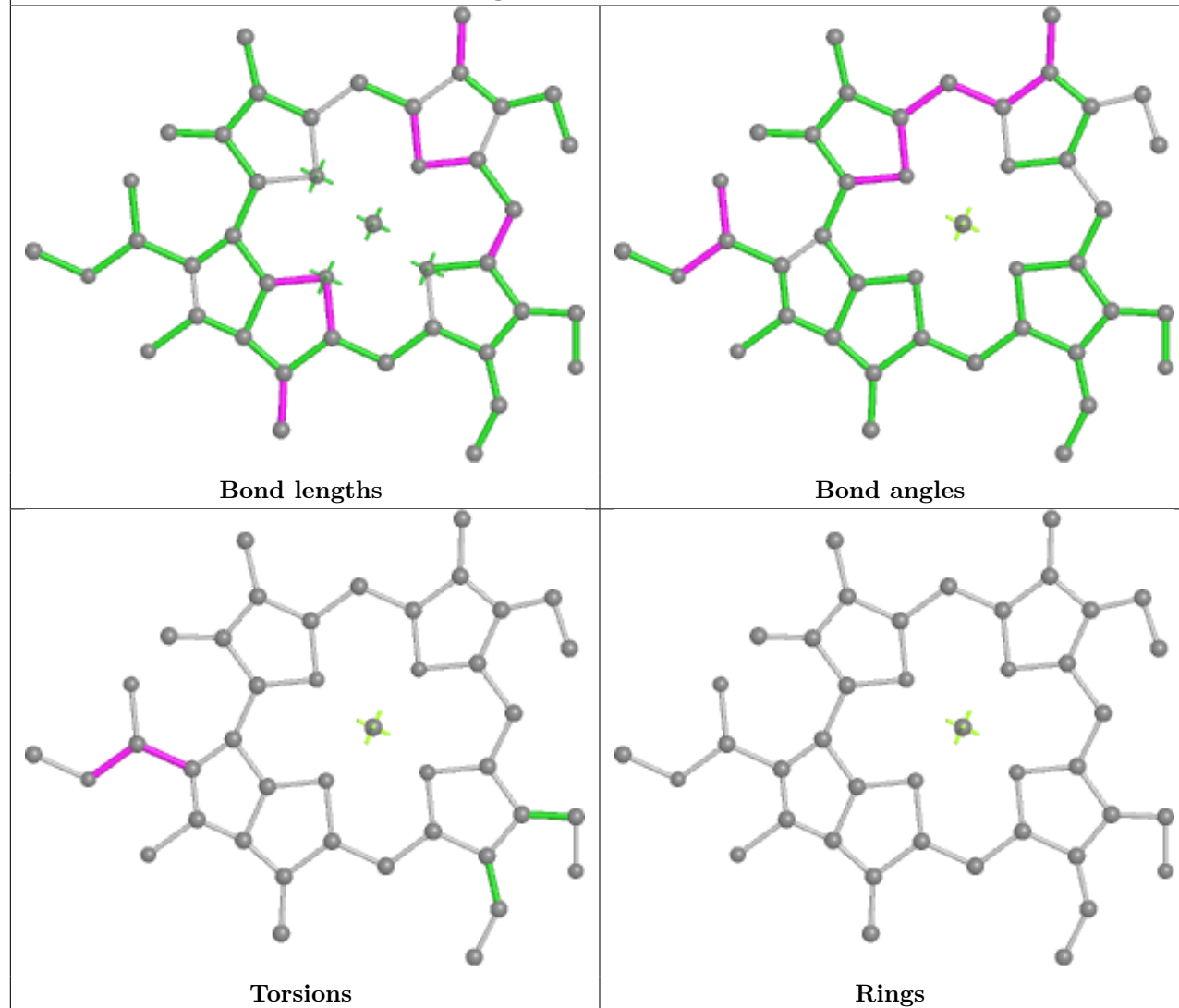
Ligand LUT 2 614

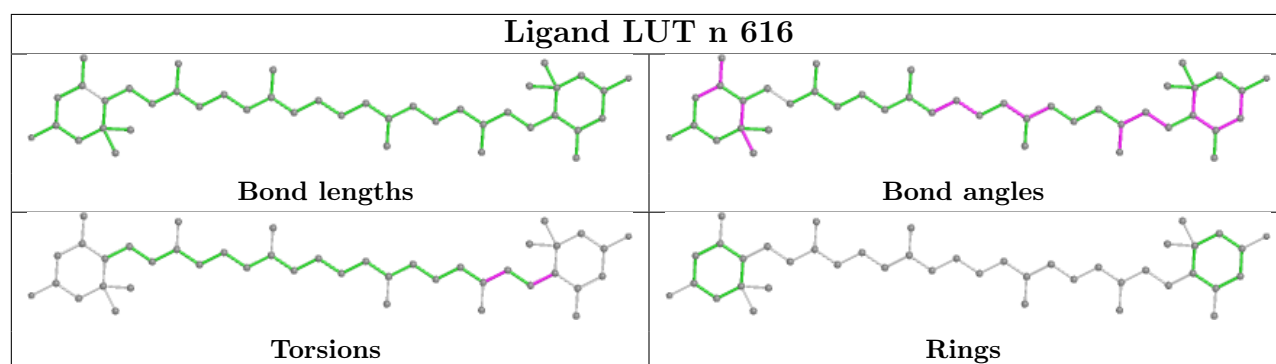
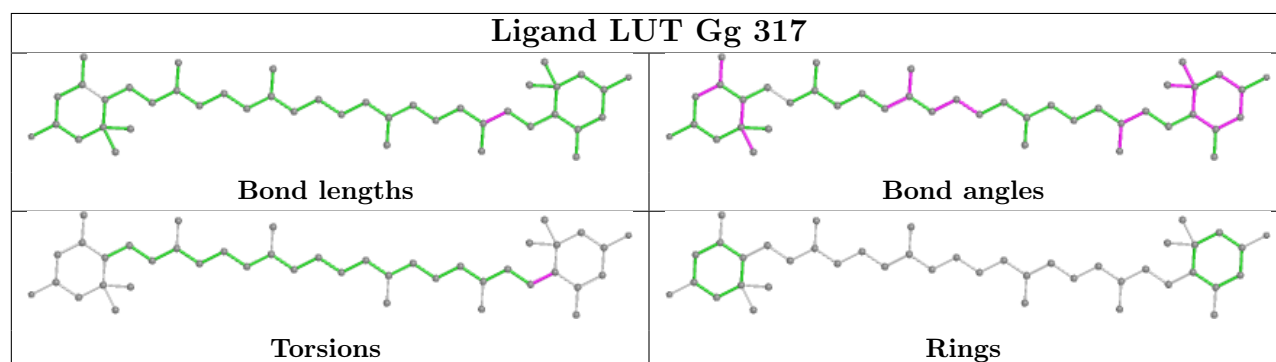
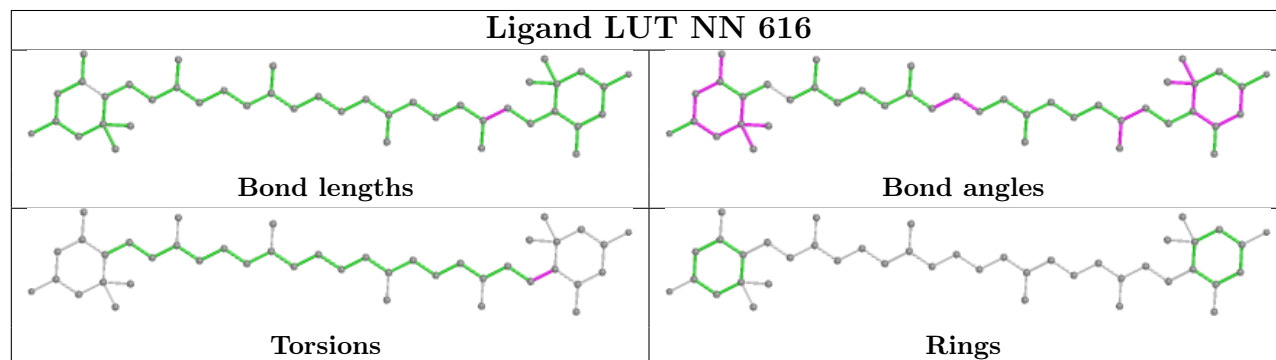
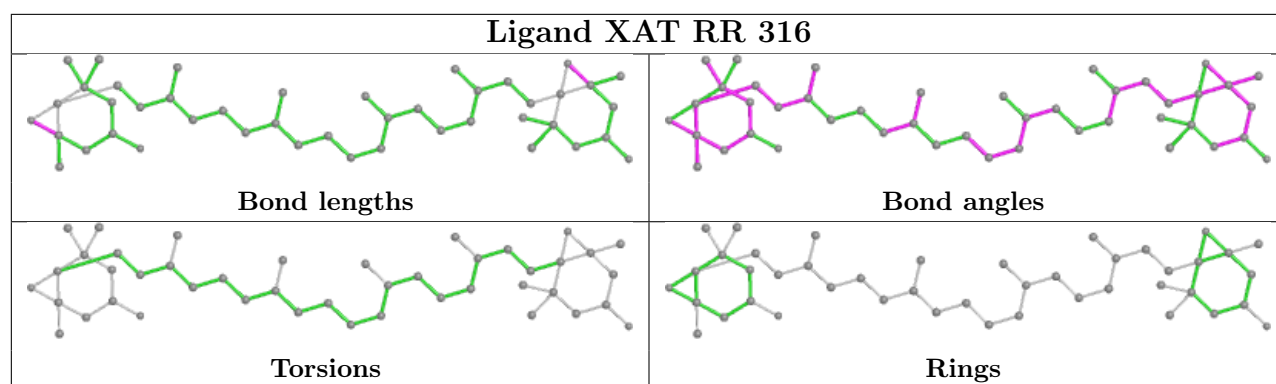


Ligand CLA CC 509

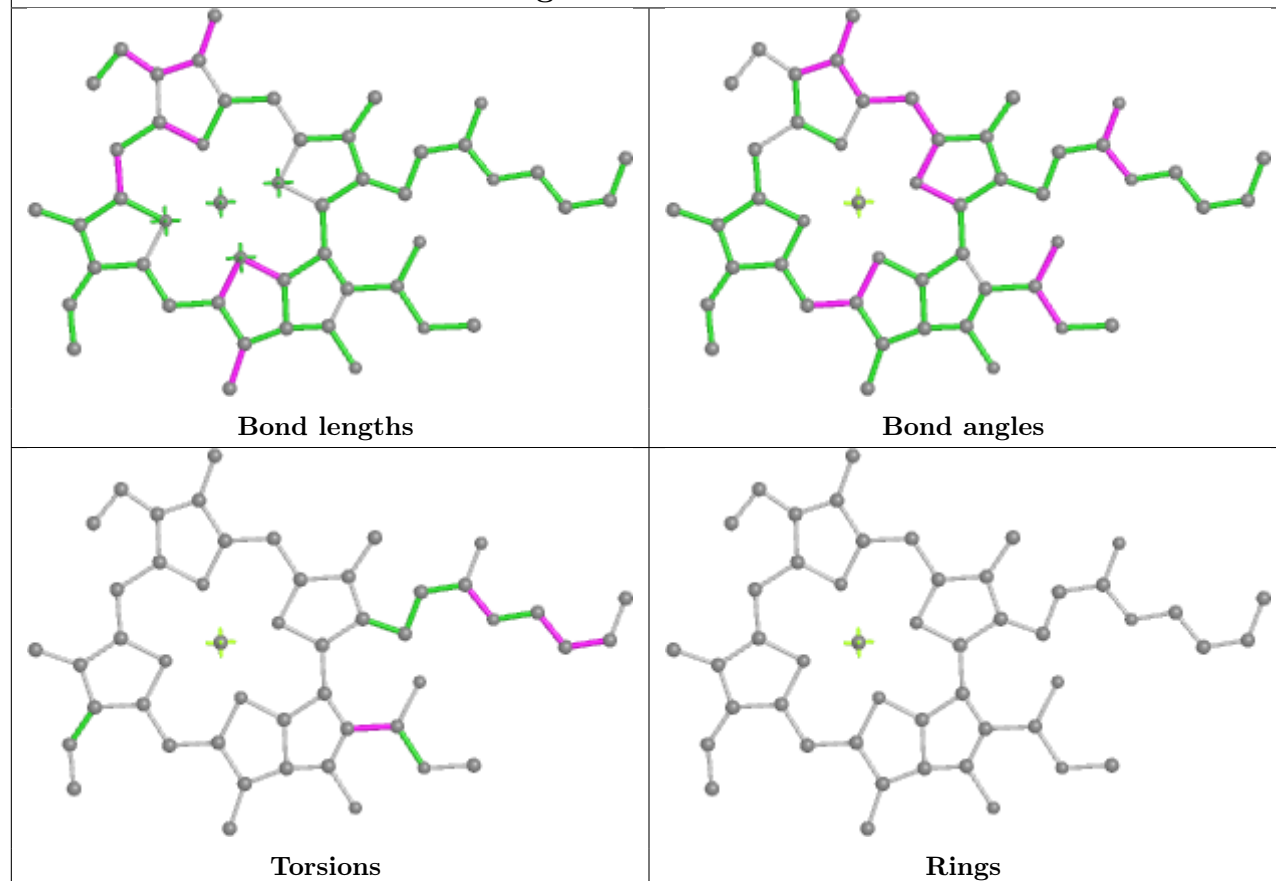


Ligand CHL N 608

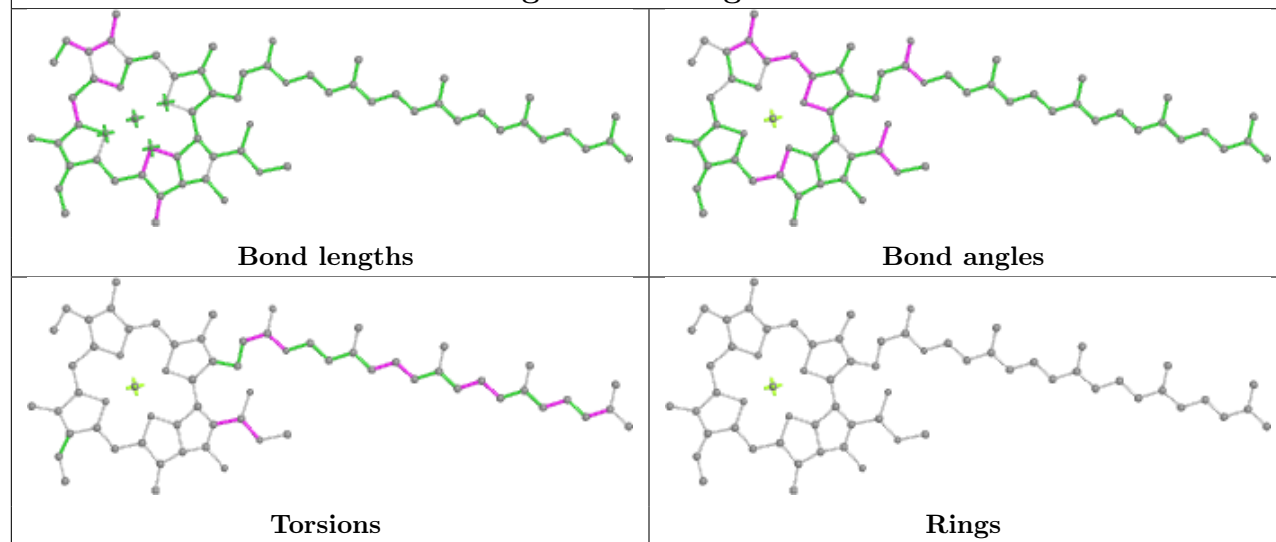


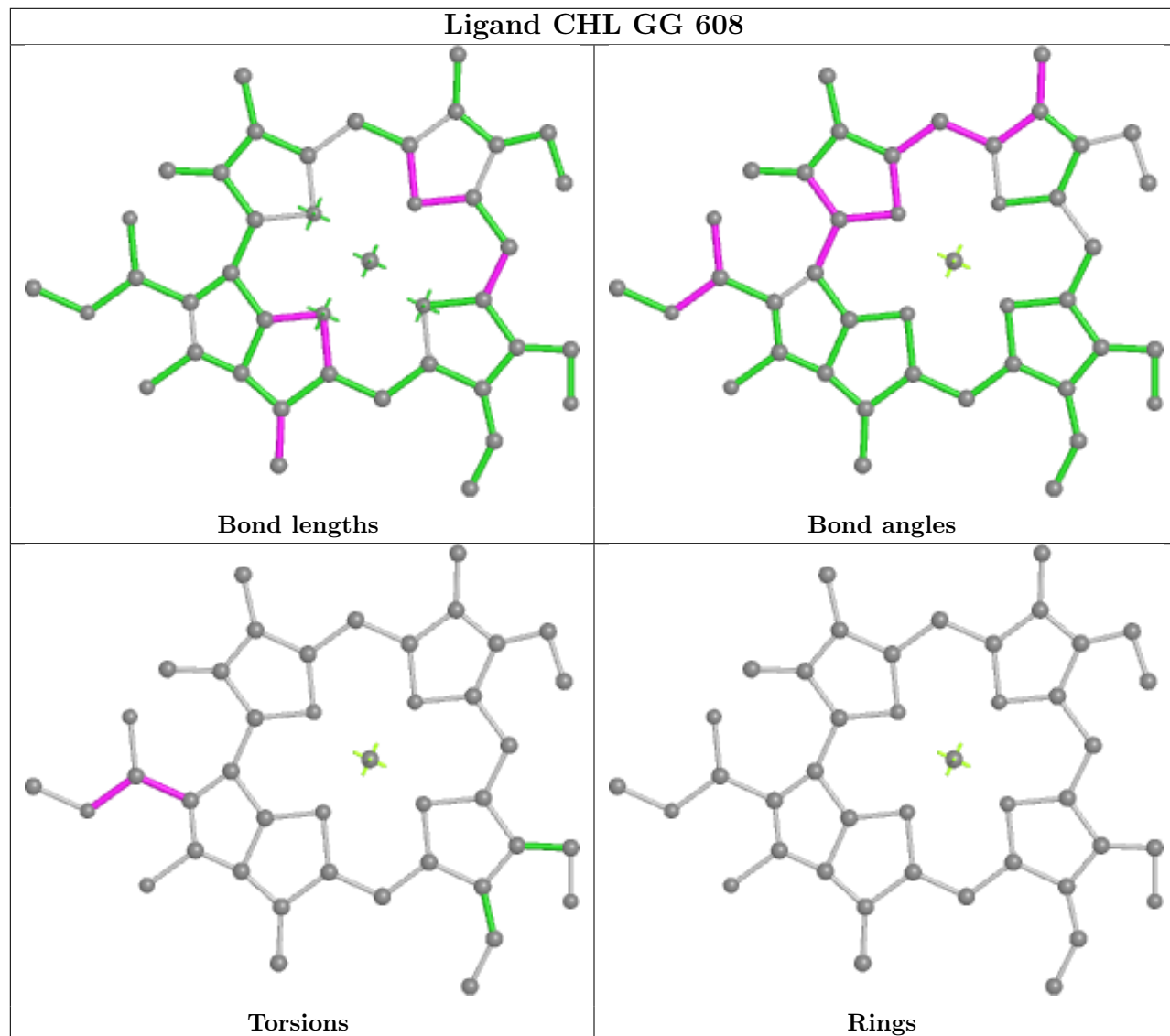
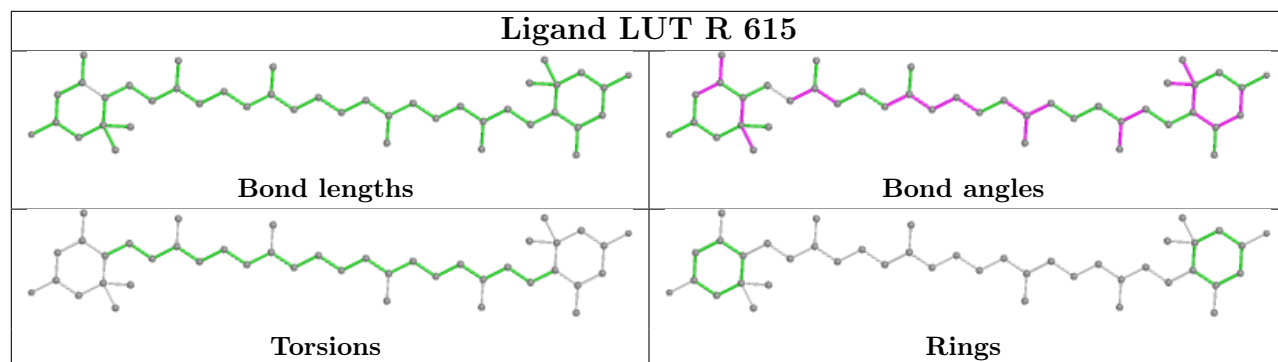


Ligand CLA a 407

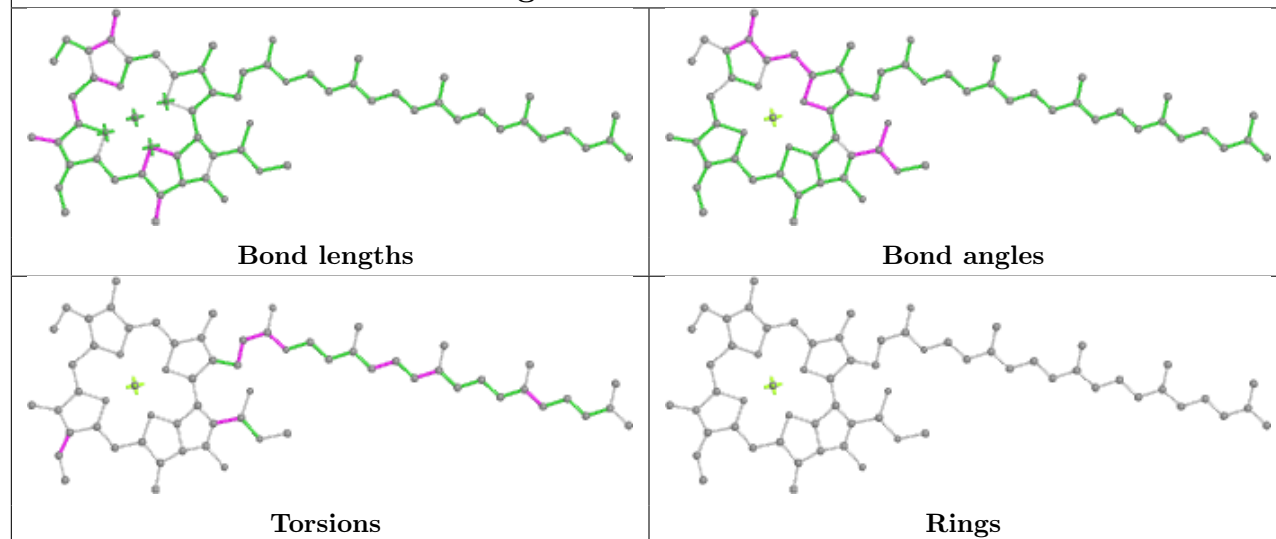


Ligand CLA Gg 304

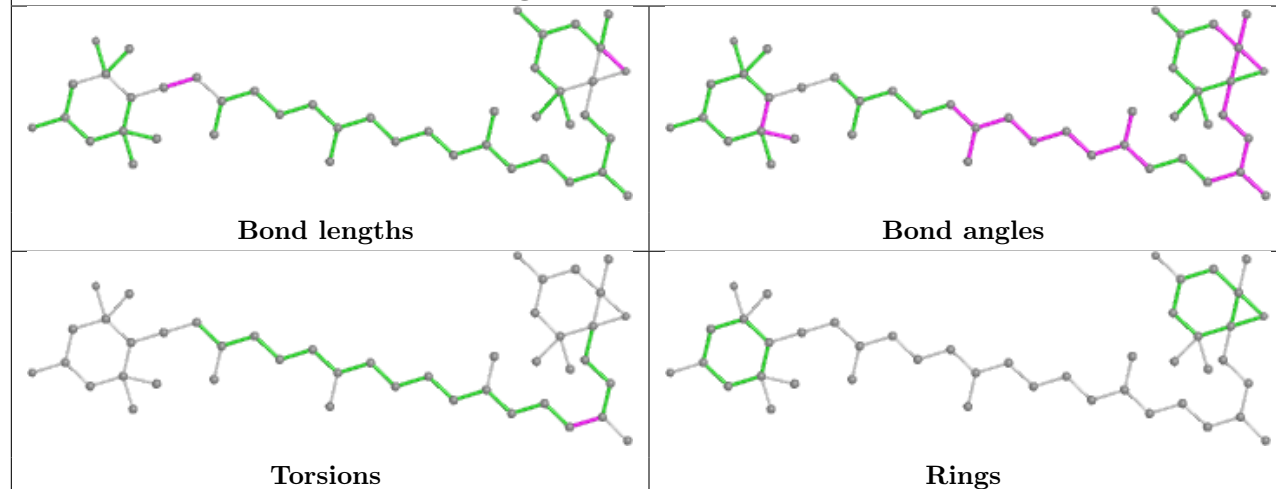




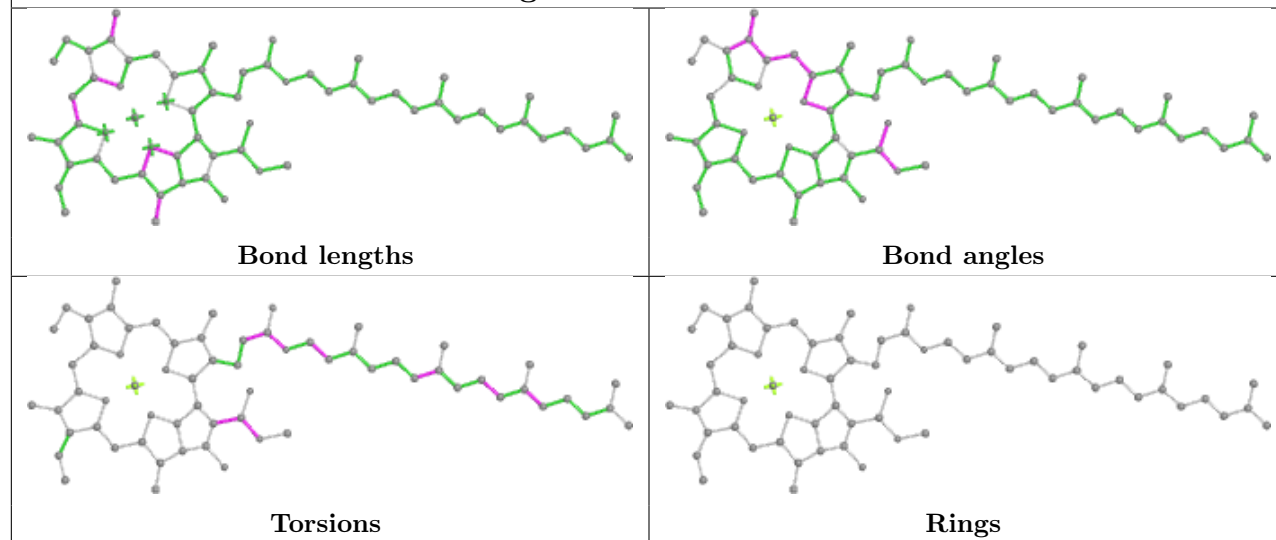
Ligand CLA DD 403

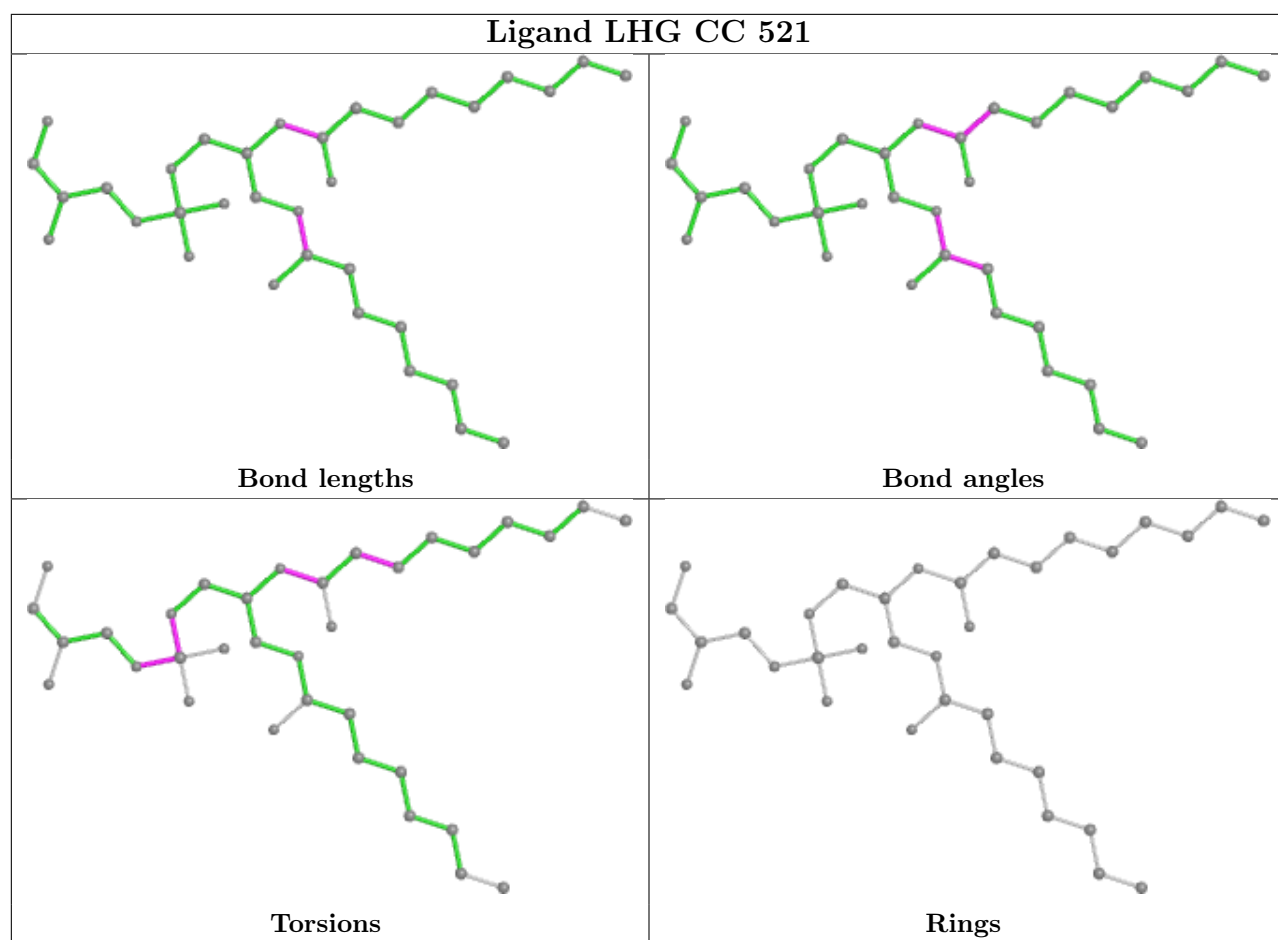


Ligand NEX YY 617

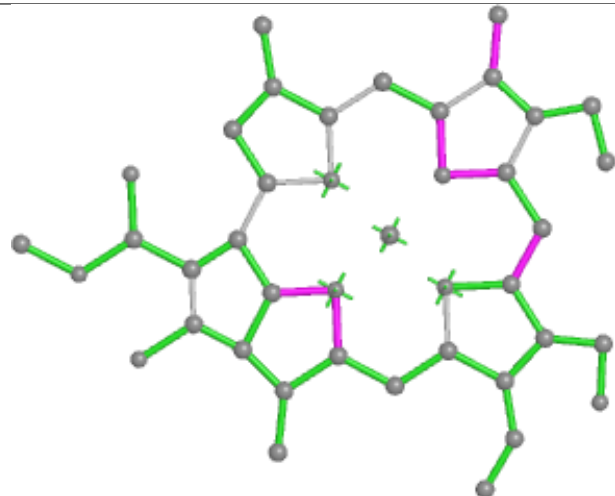


Ligand CLA BB 612

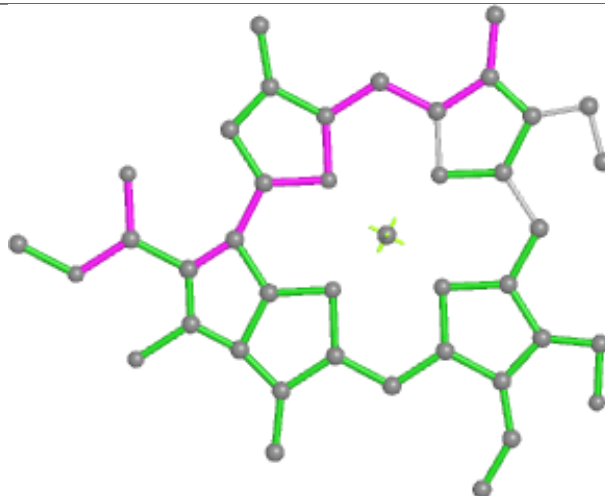




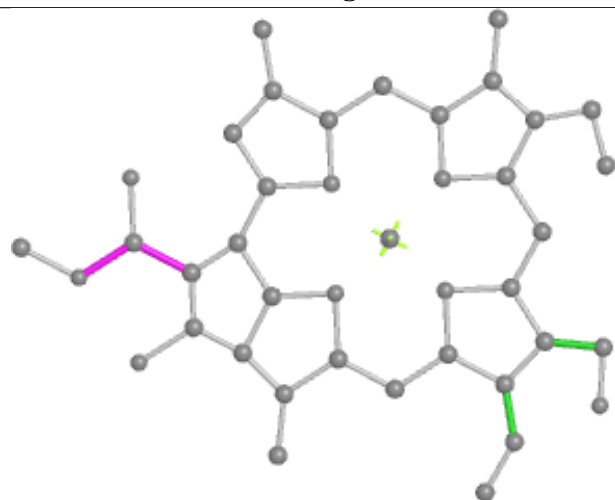
Ligand CHL 2 608



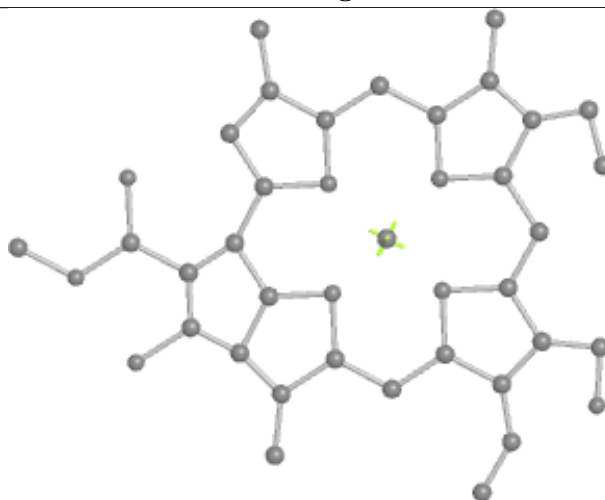
Bond lengths



Bond angles

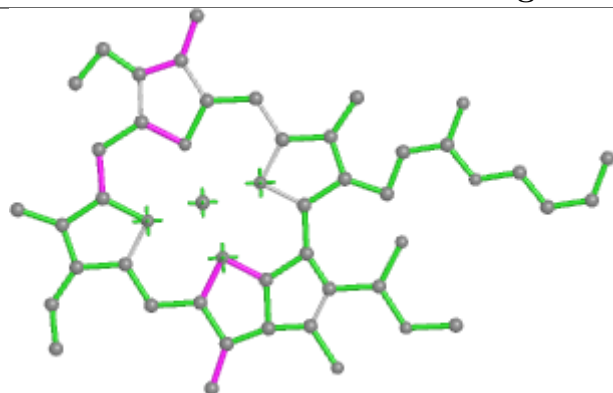


Torsions

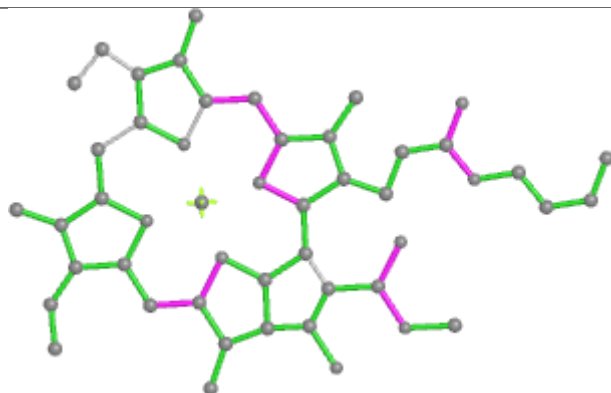


Rings

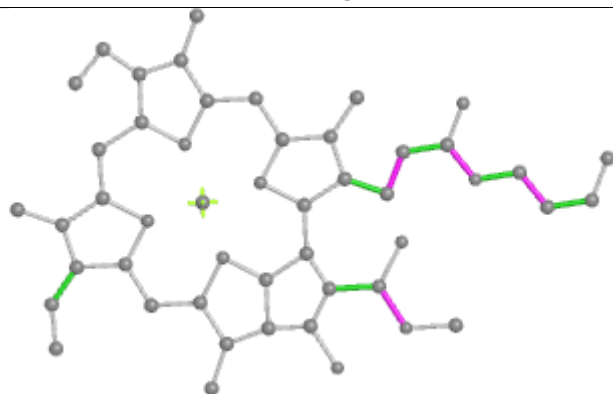
Ligand CLA S 612



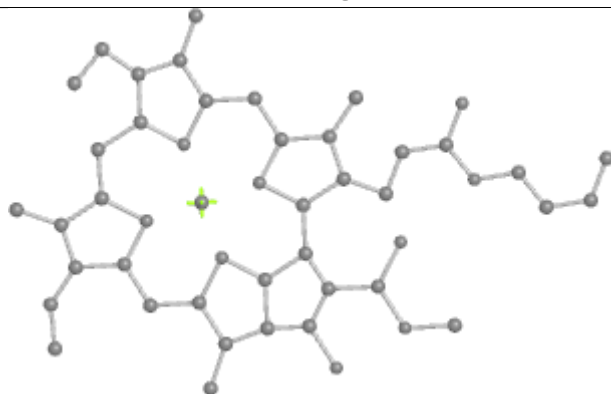
Bond lengths



Bond angles

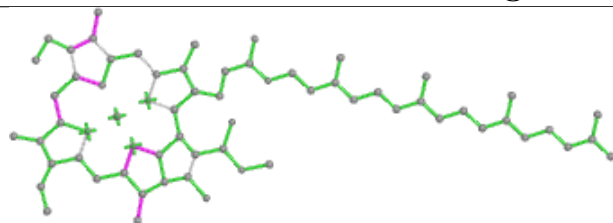


Torsions

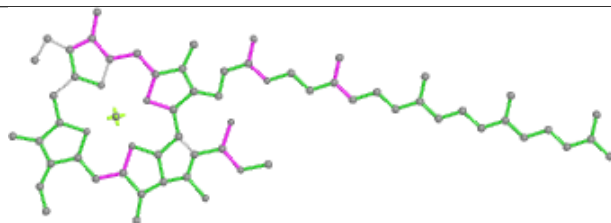


Rings

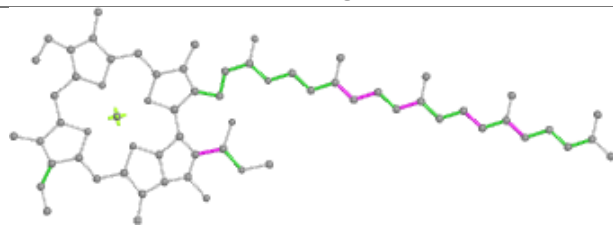
Ligand CLA Bb 604



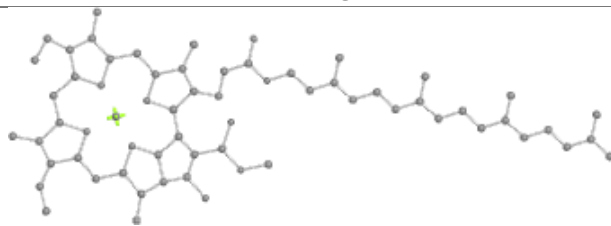
Bond lengths



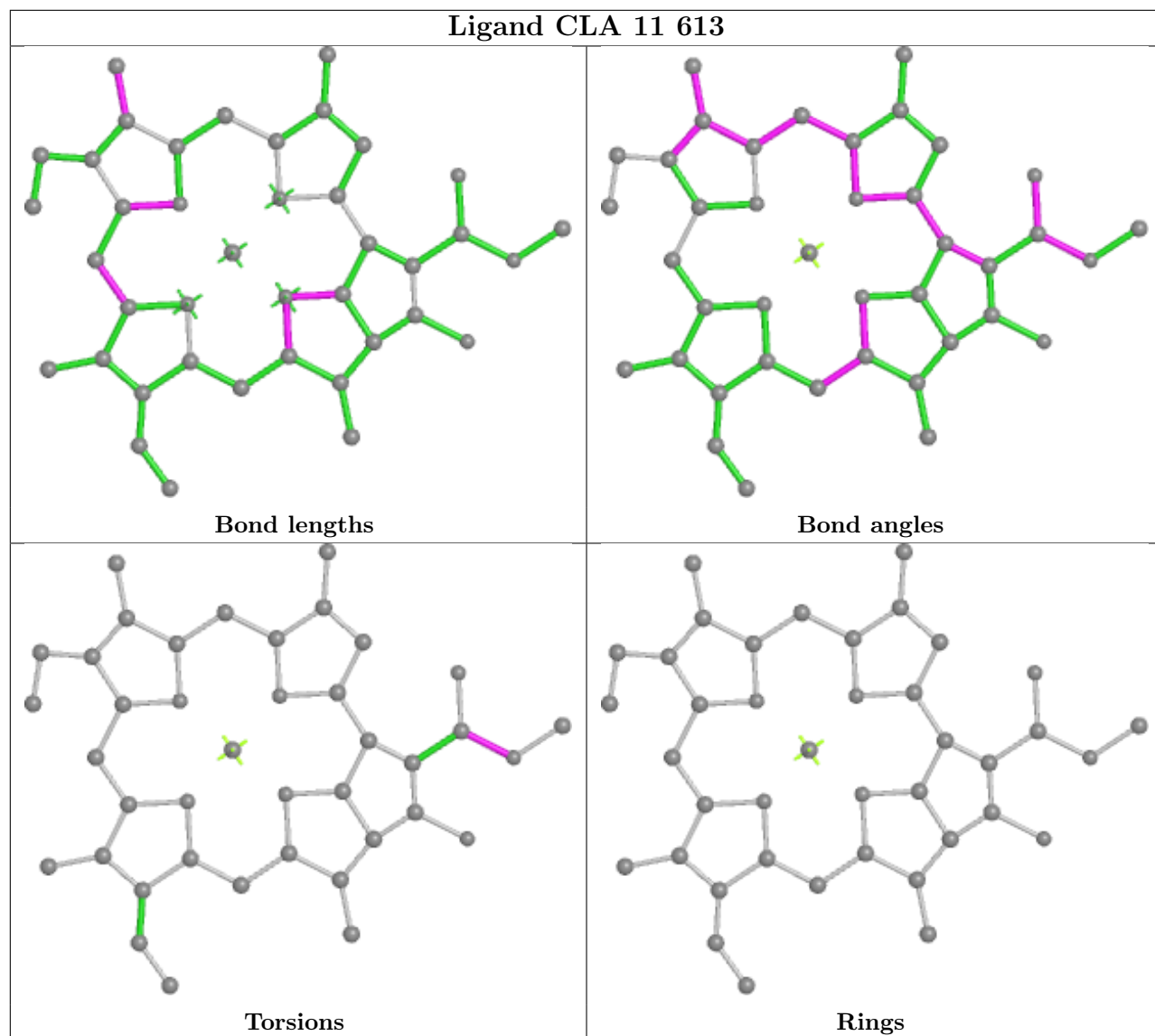
Bond angles

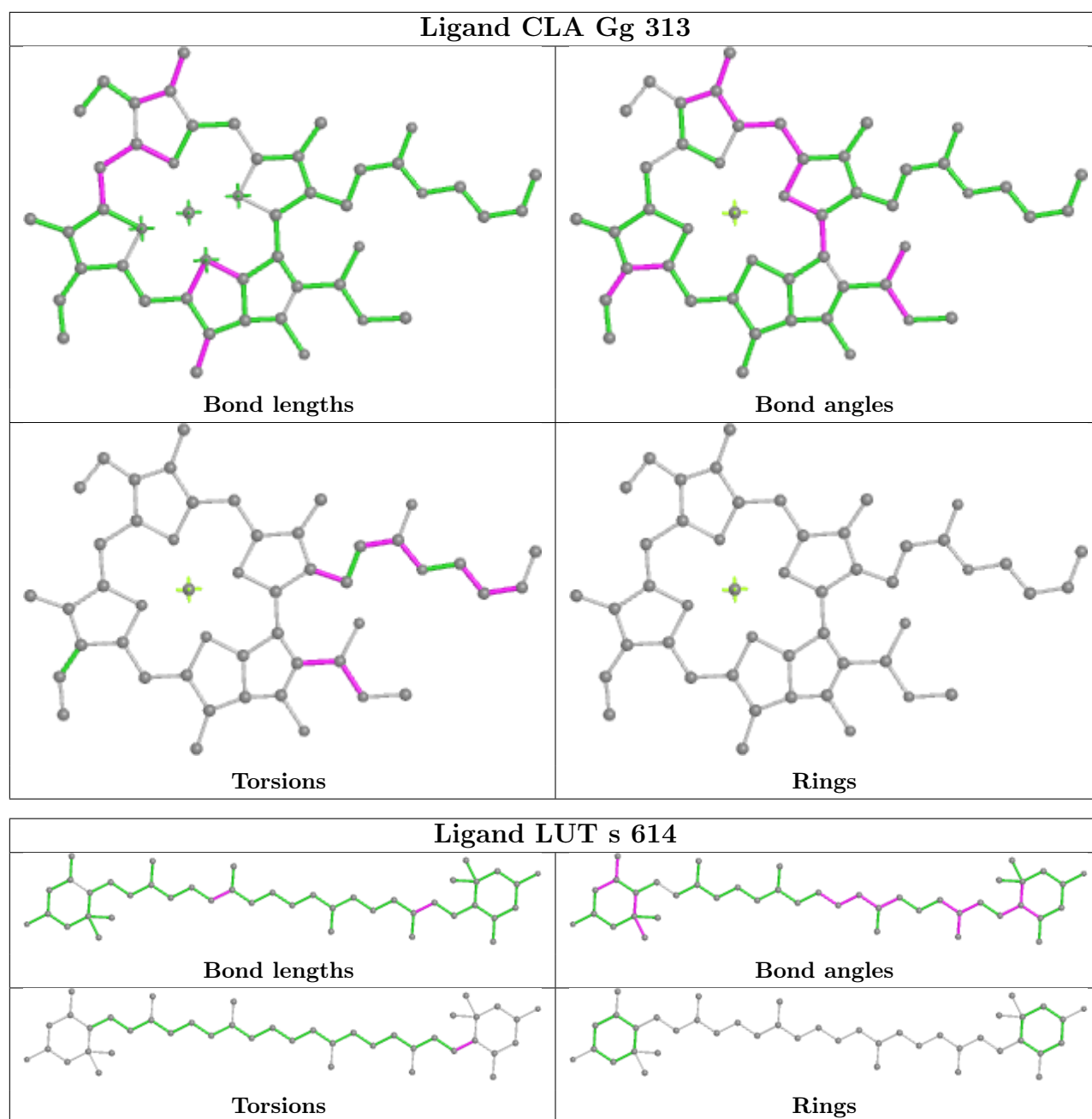


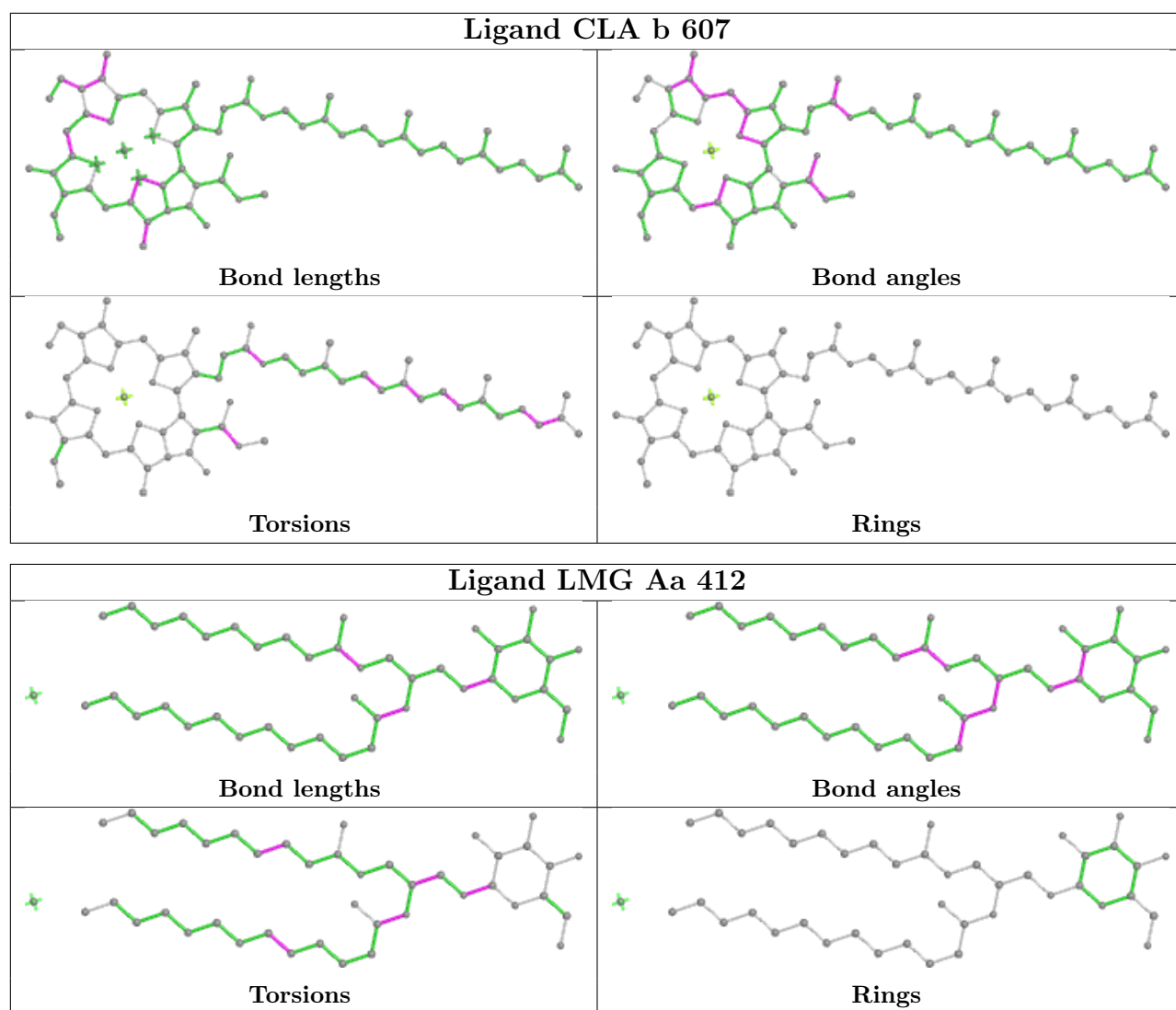
Torsions



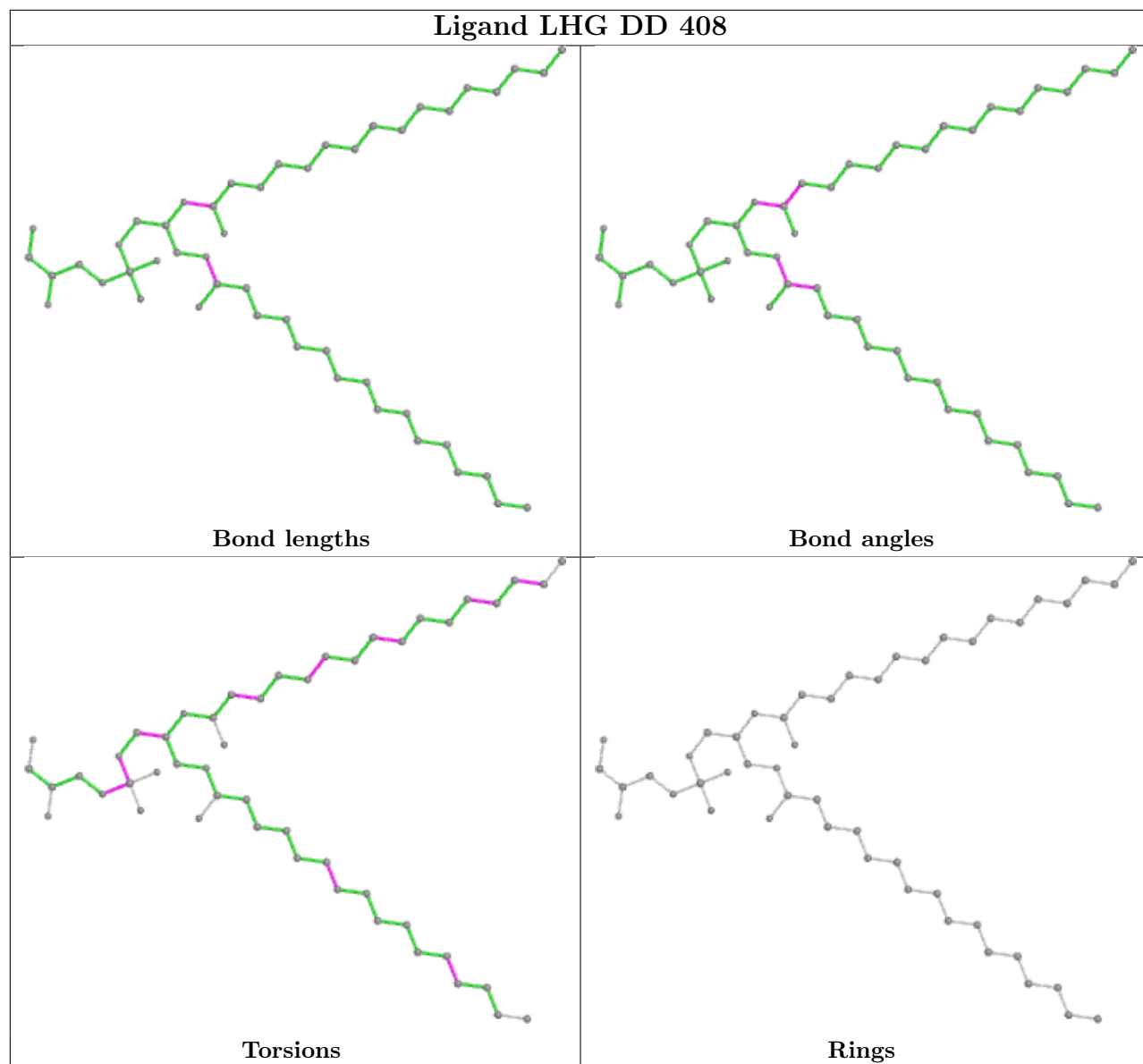
Rings



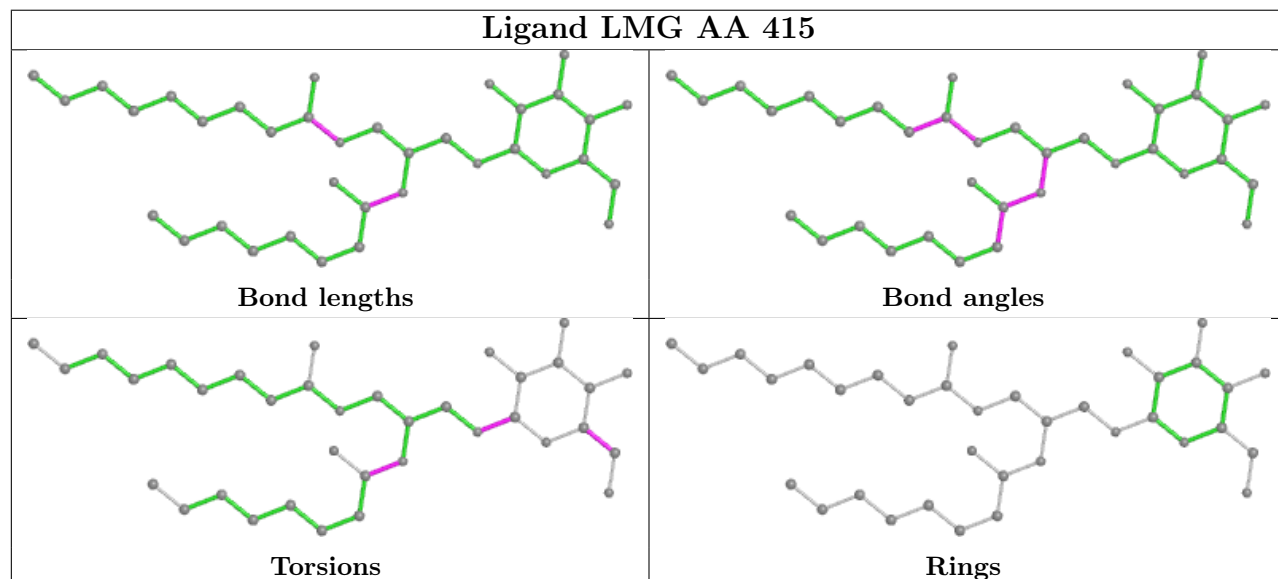




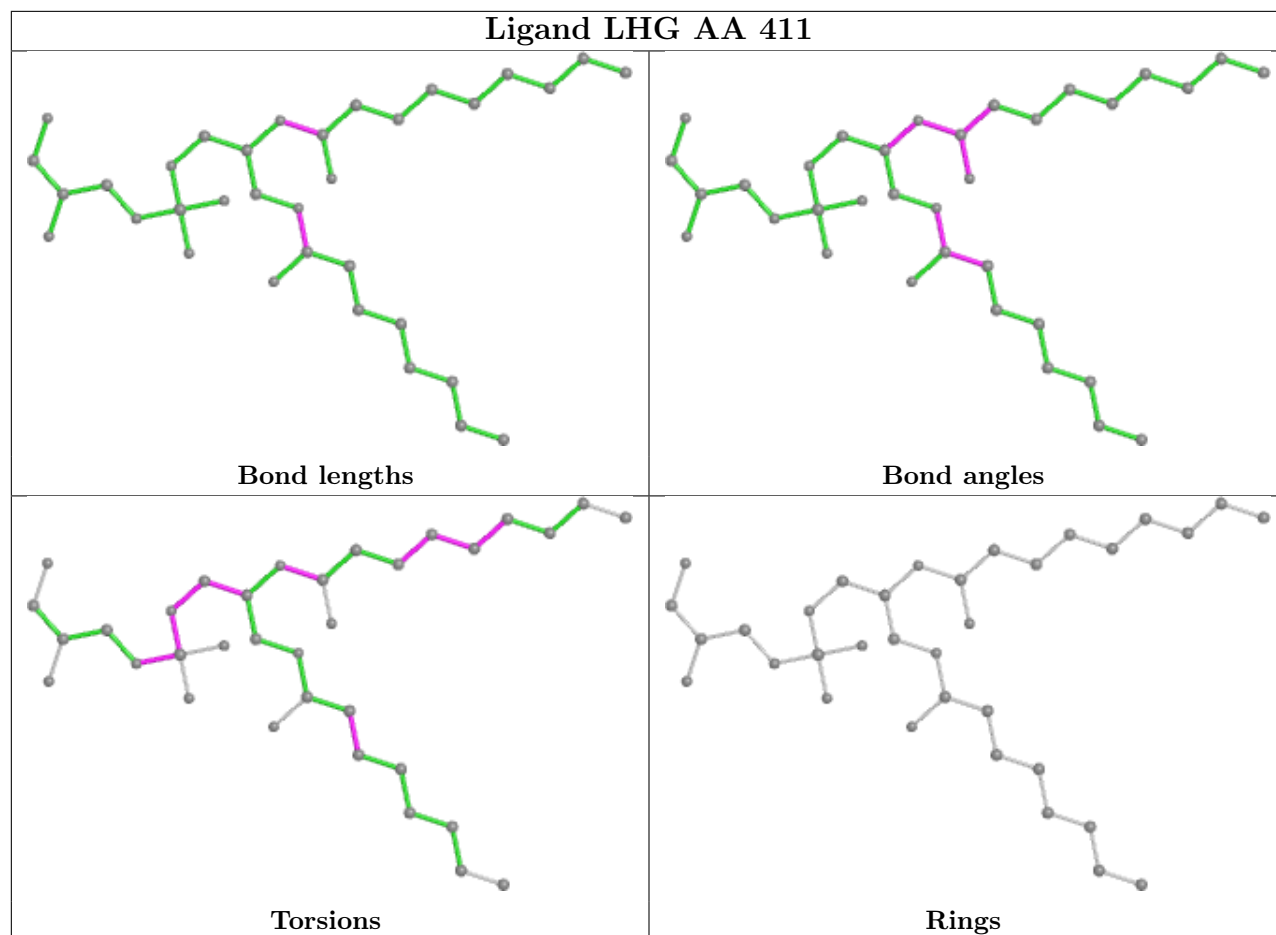
Ligand LHG DD 408



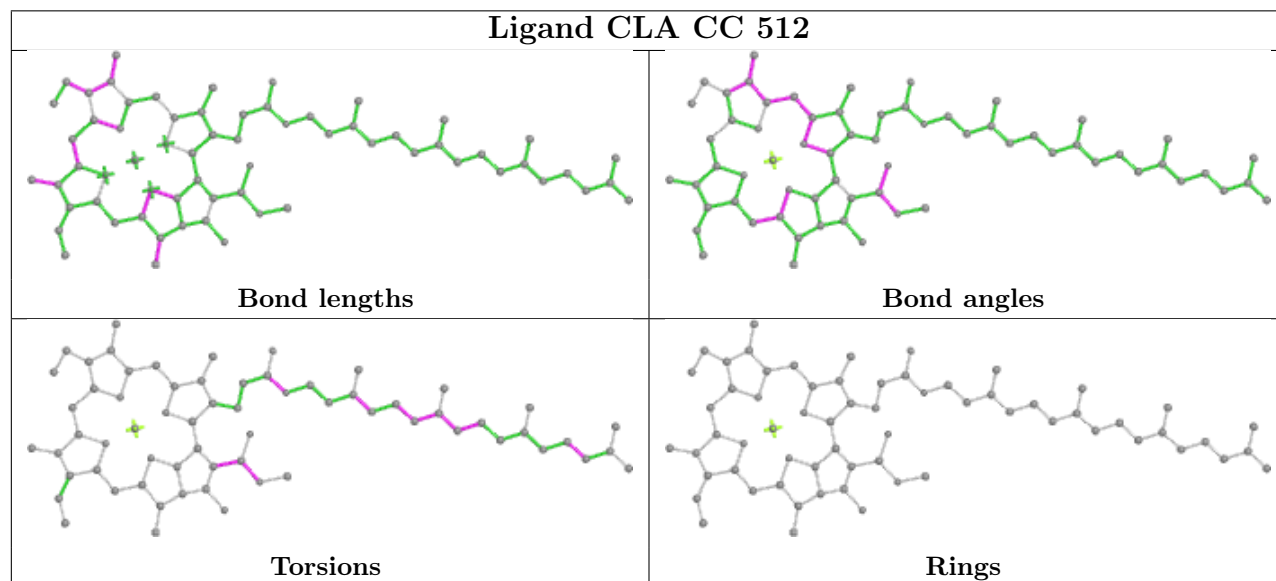
Ligand LMG AA 415

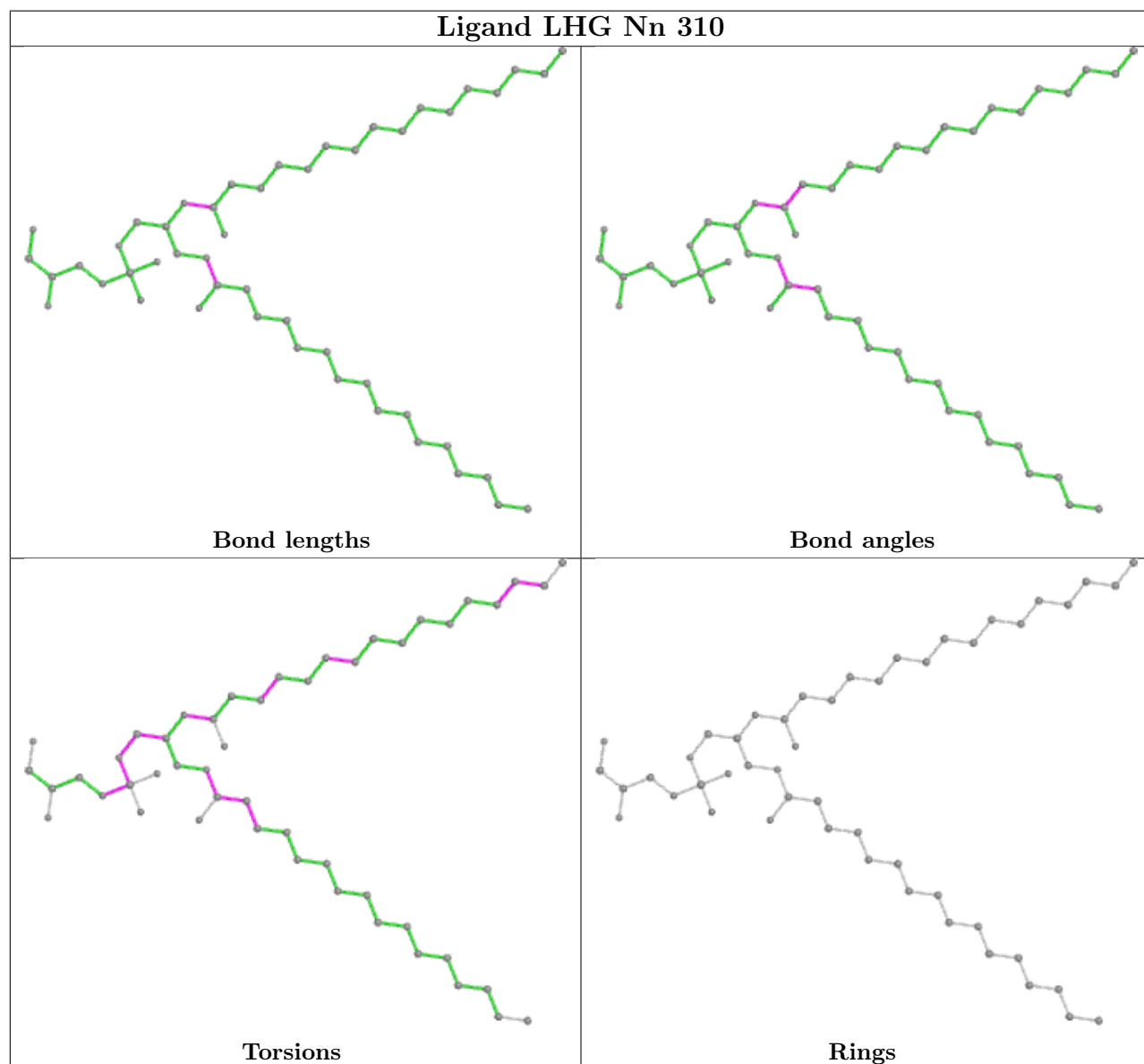
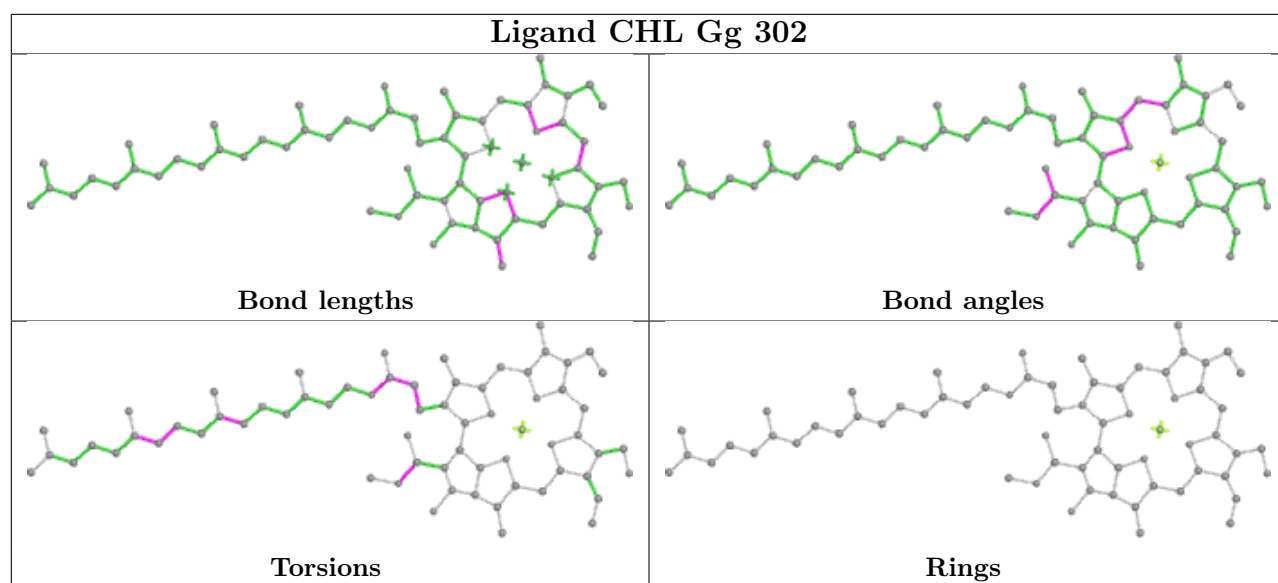


Ligand LHG AA 411

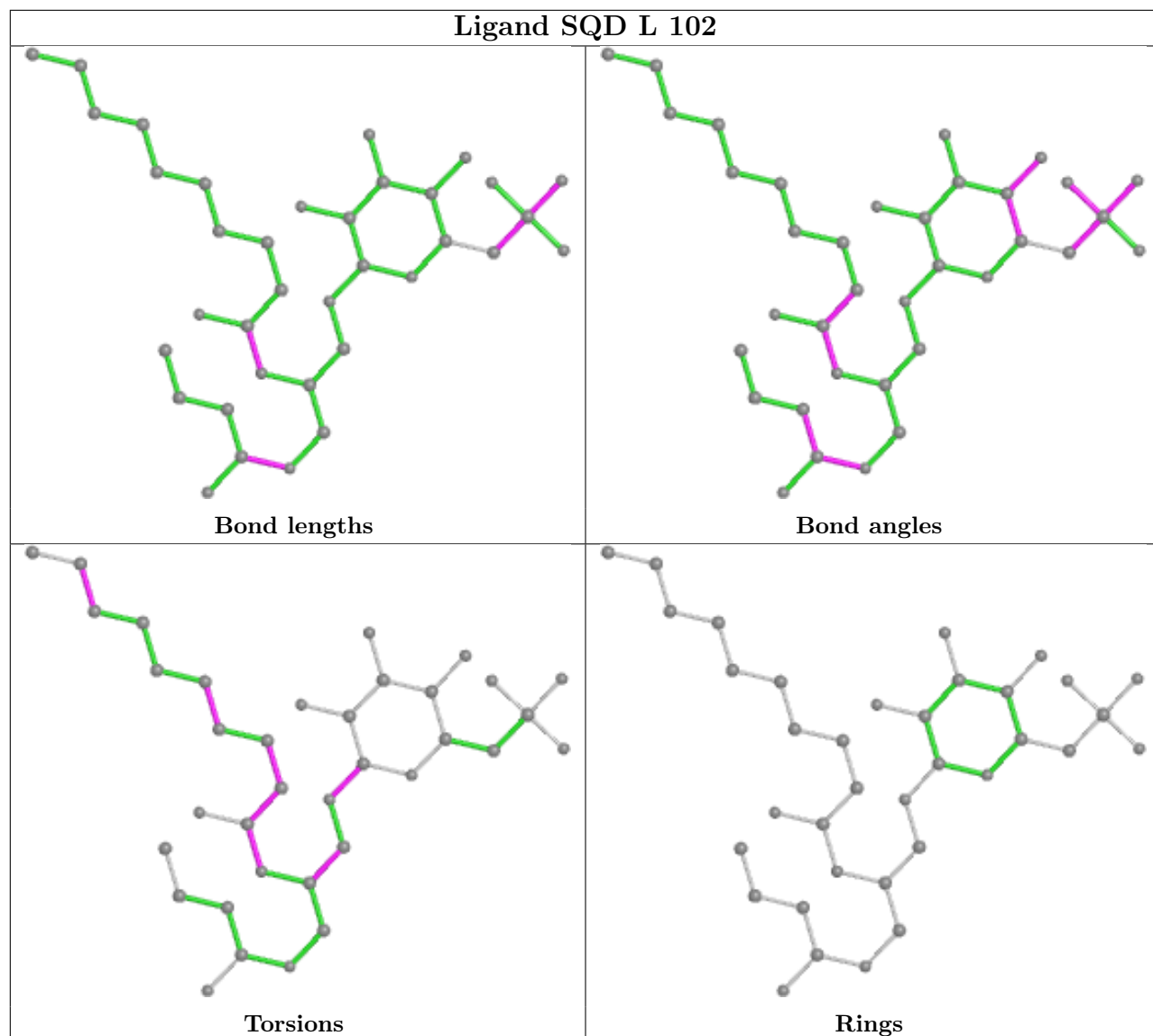


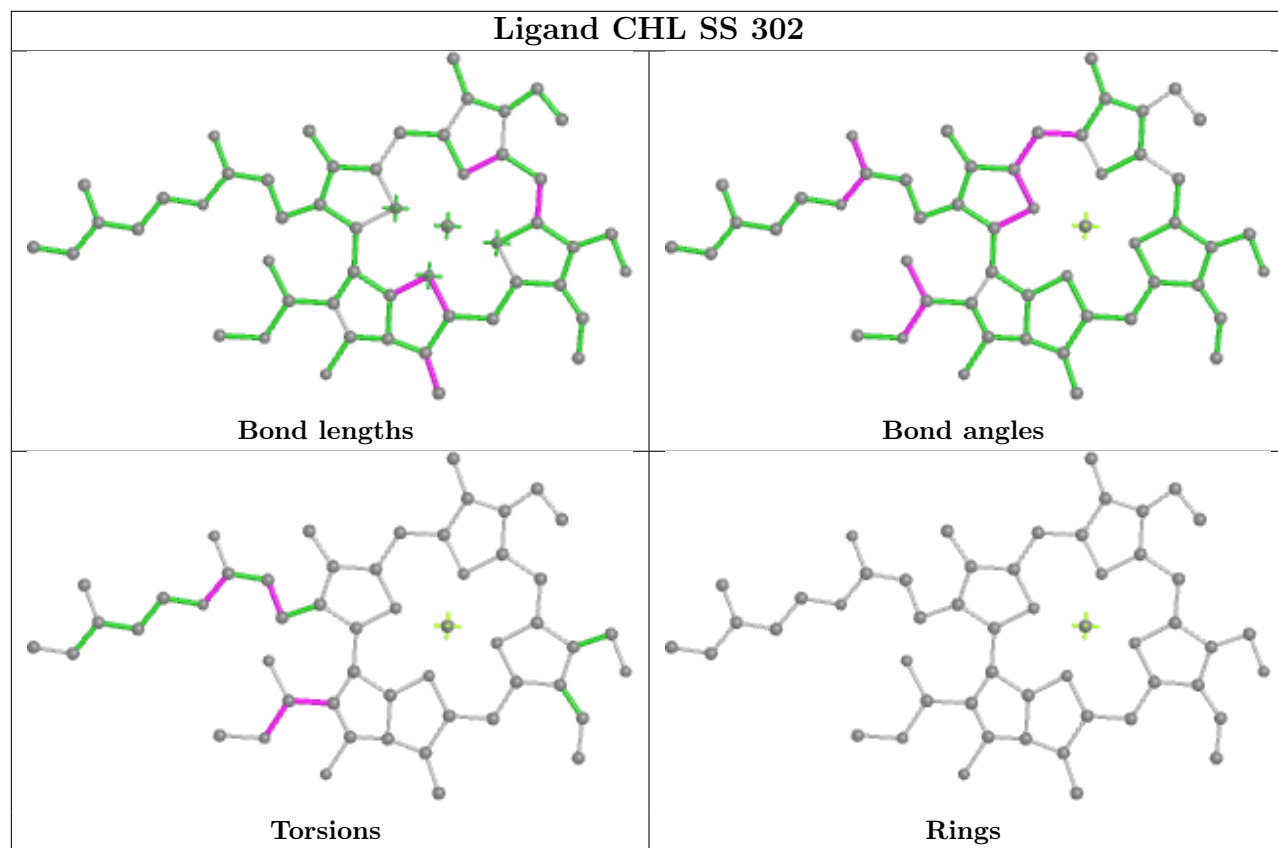
Ligand CLA CC 512



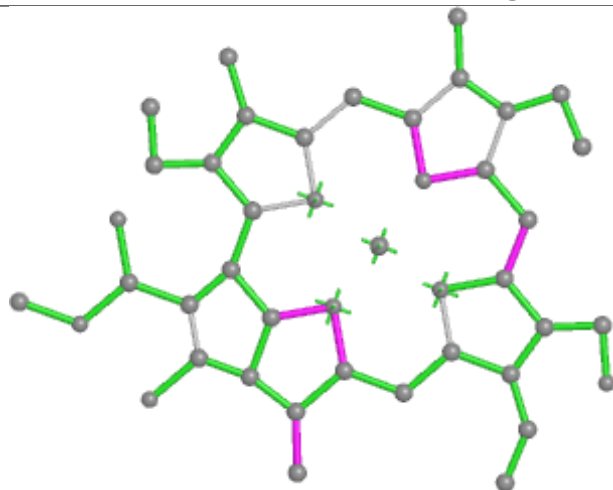


Ligand SQD L 102

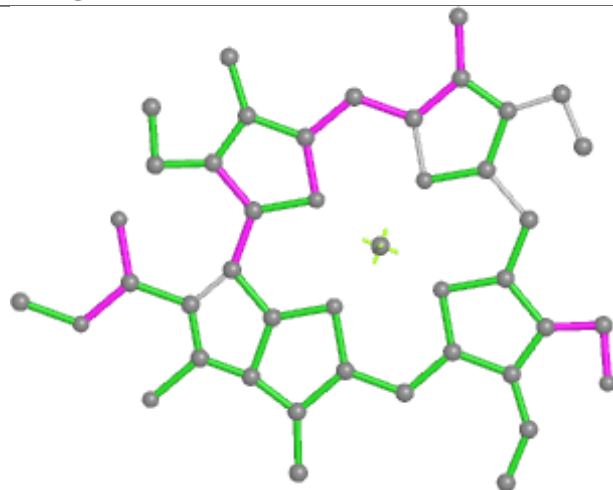




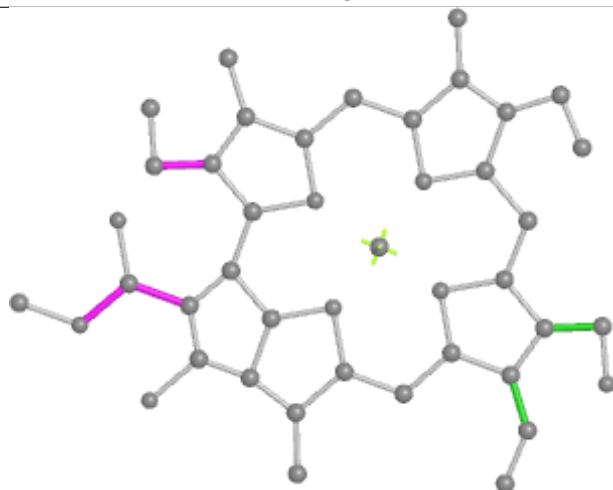
Ligand CHL Gg 306



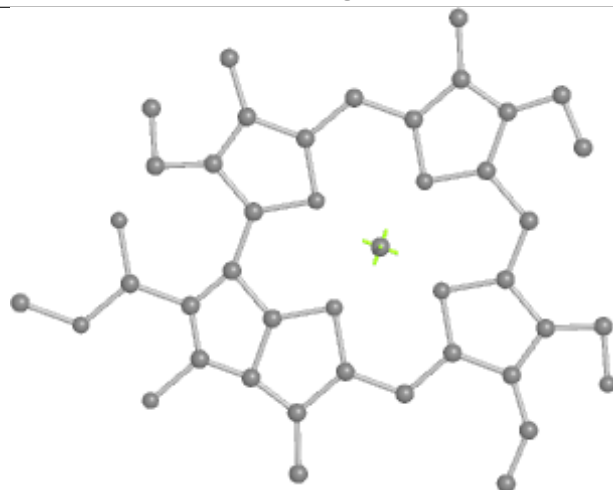
Bond lengths



Bond angles

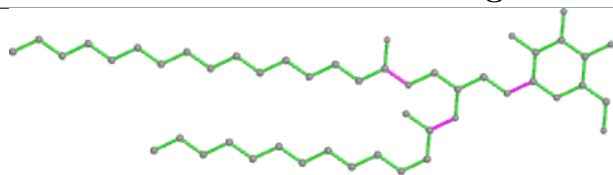


Torsions

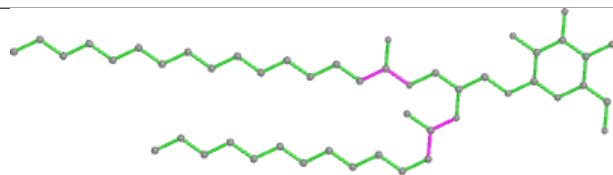


Rings

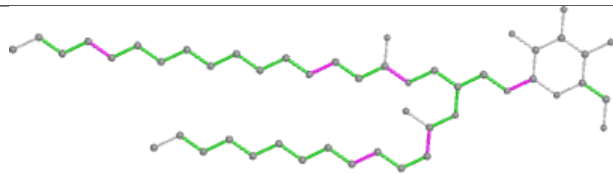
Ligand LMG WW 201



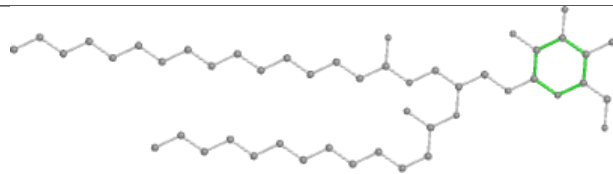
Bond lengths



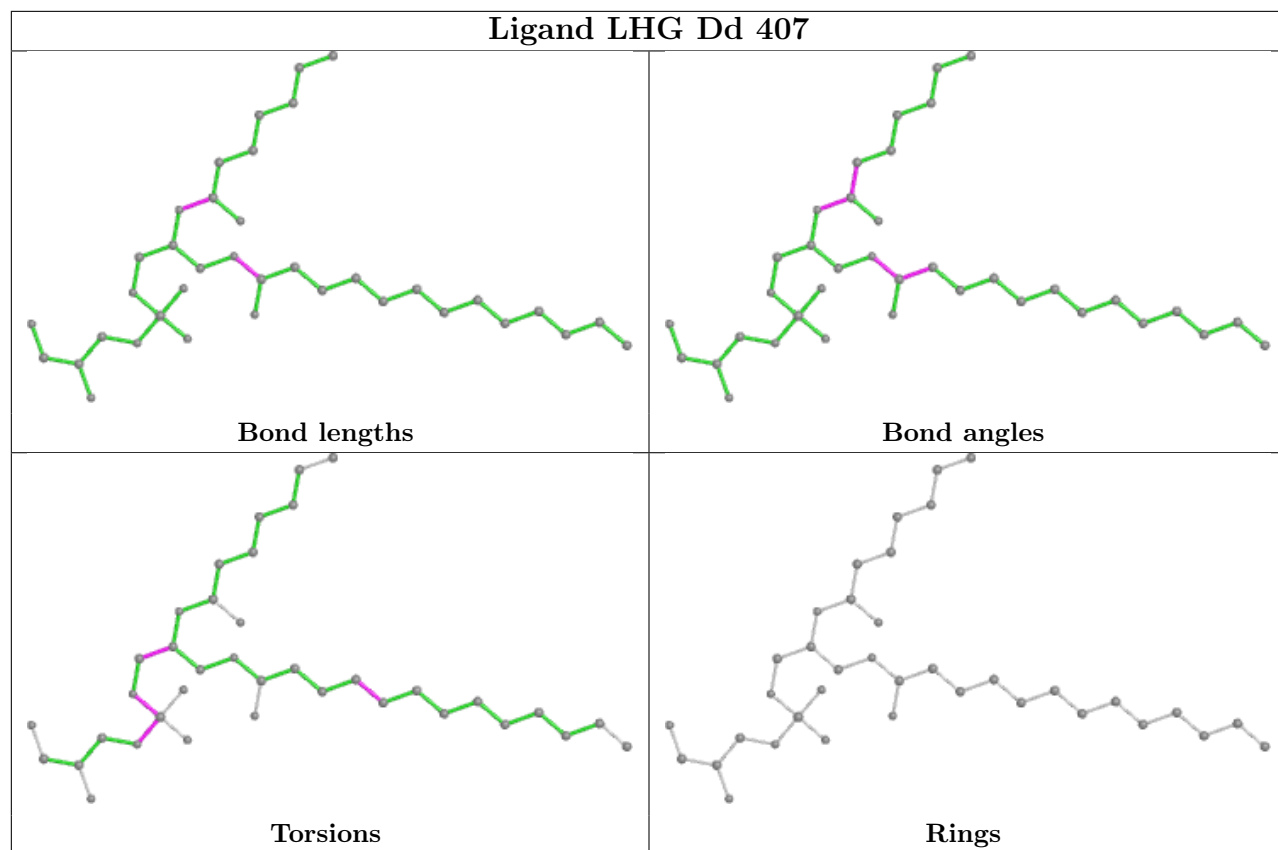
Bond angles



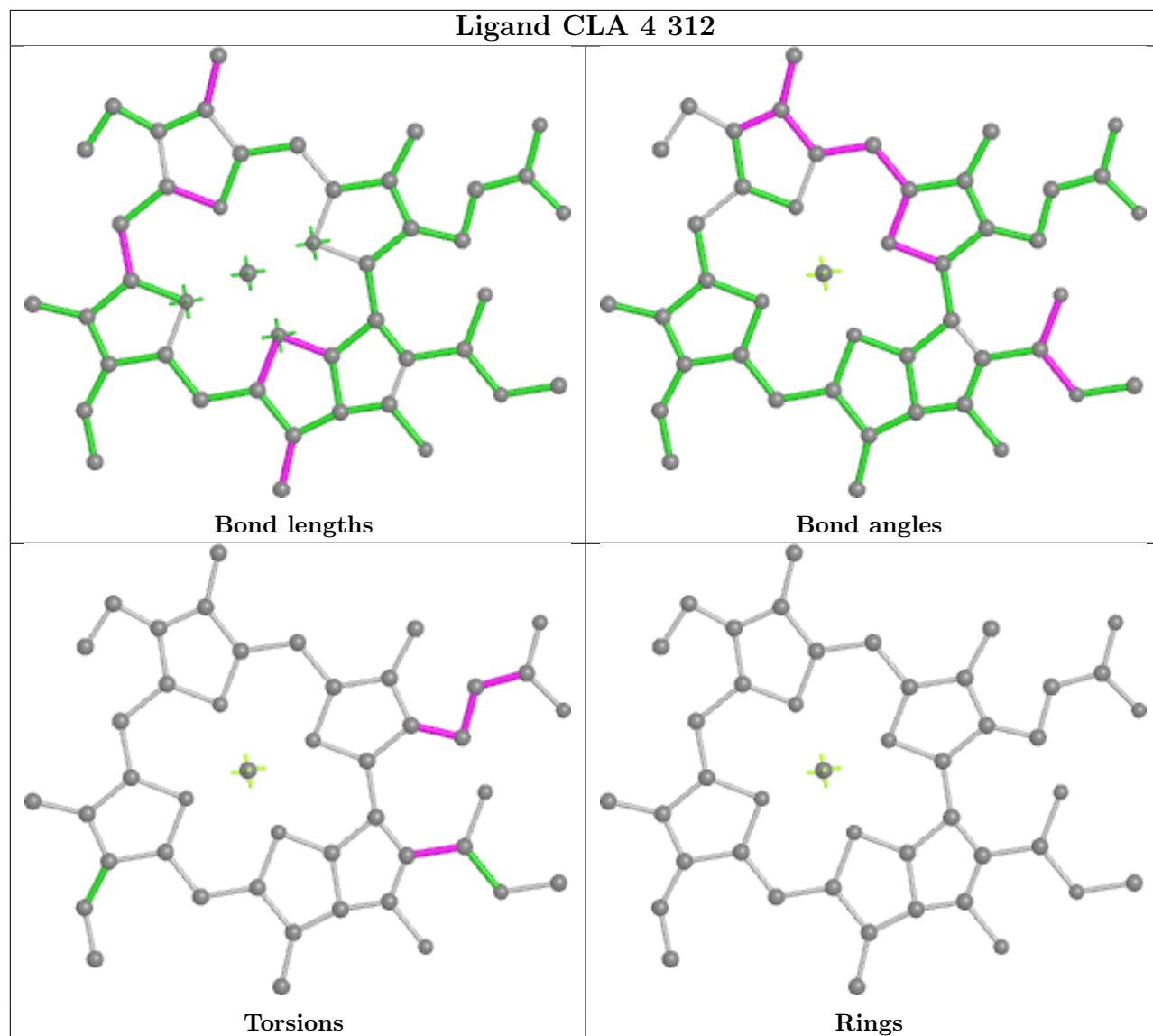
Torsions

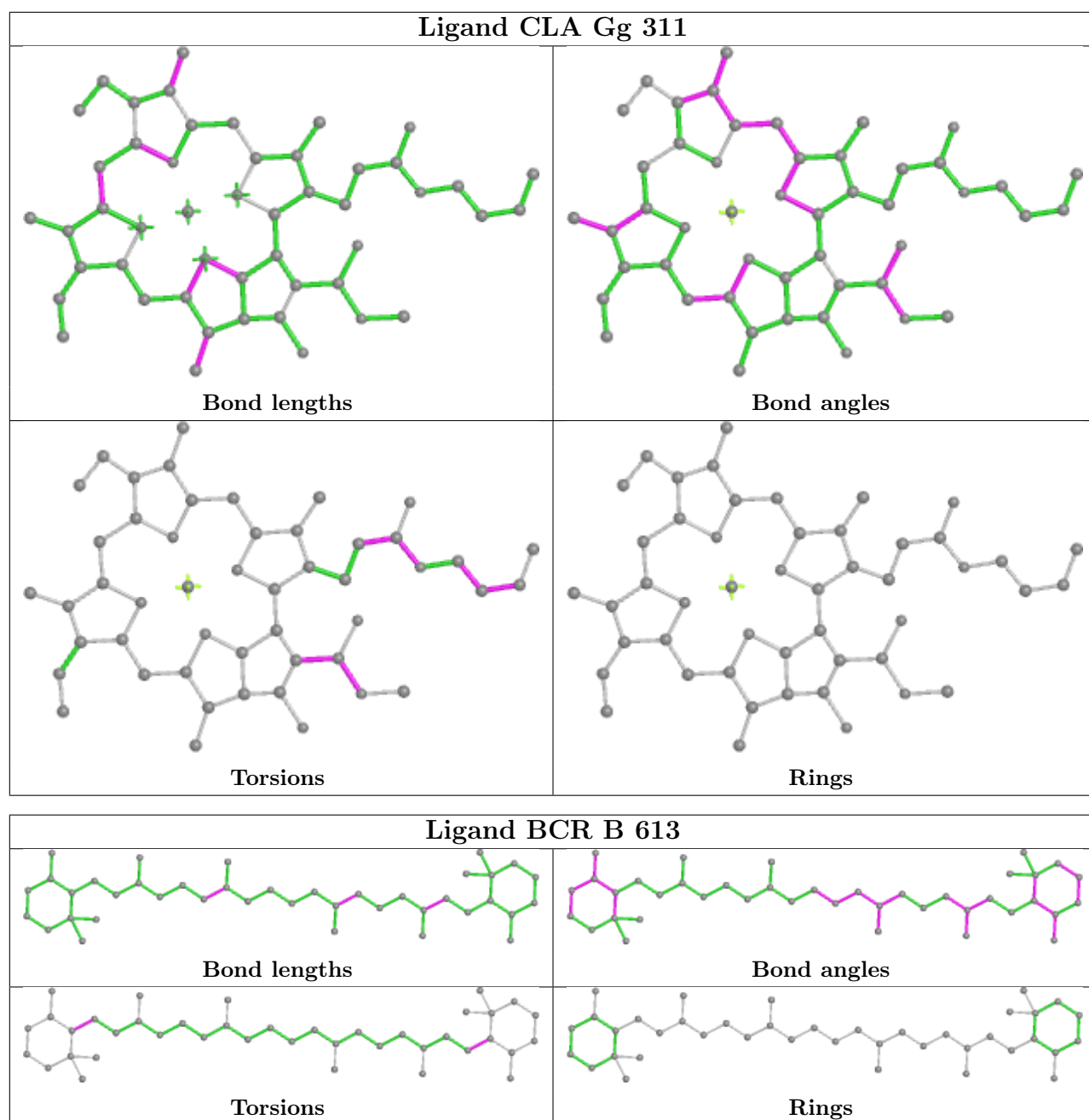


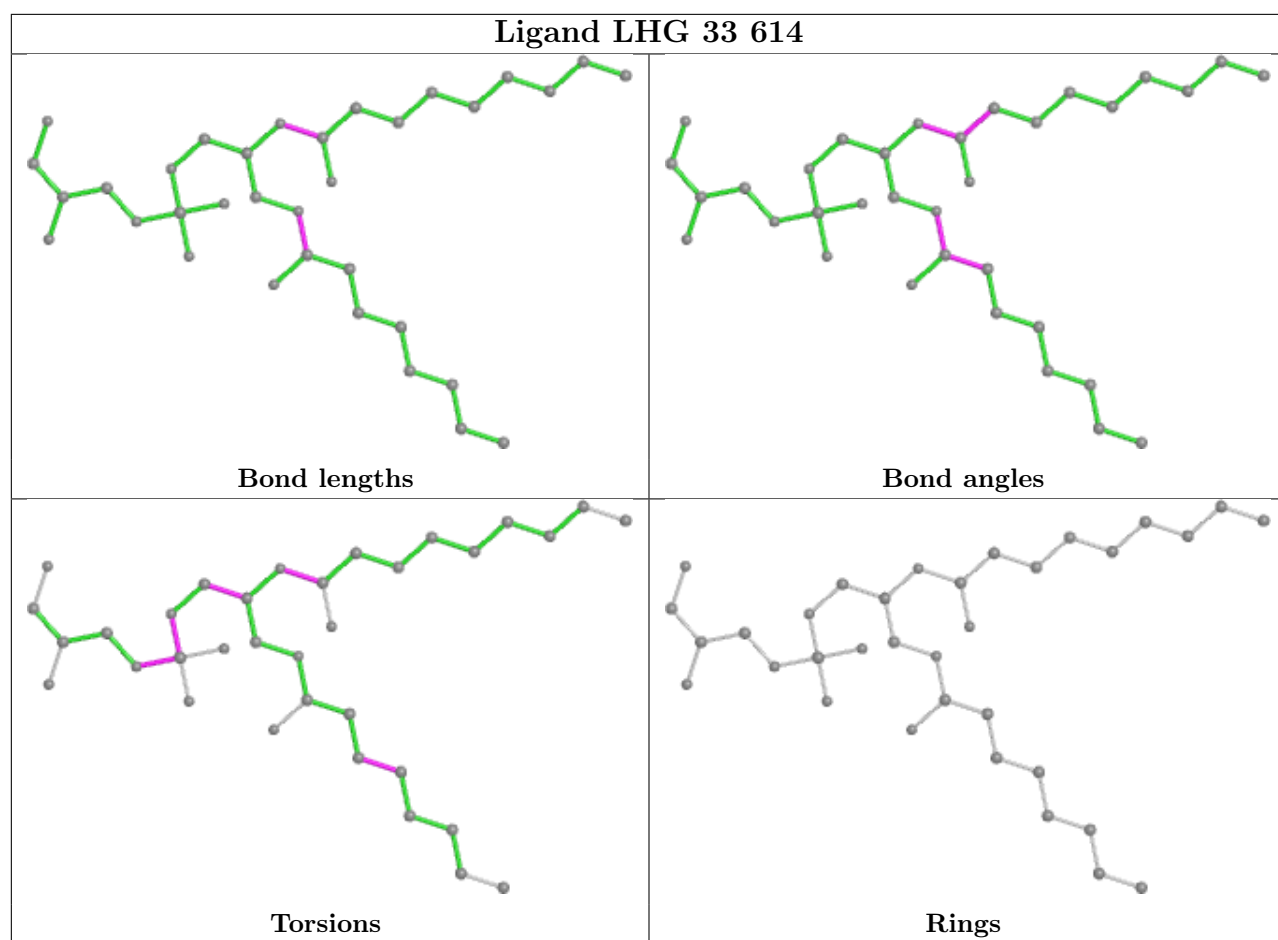
Rings

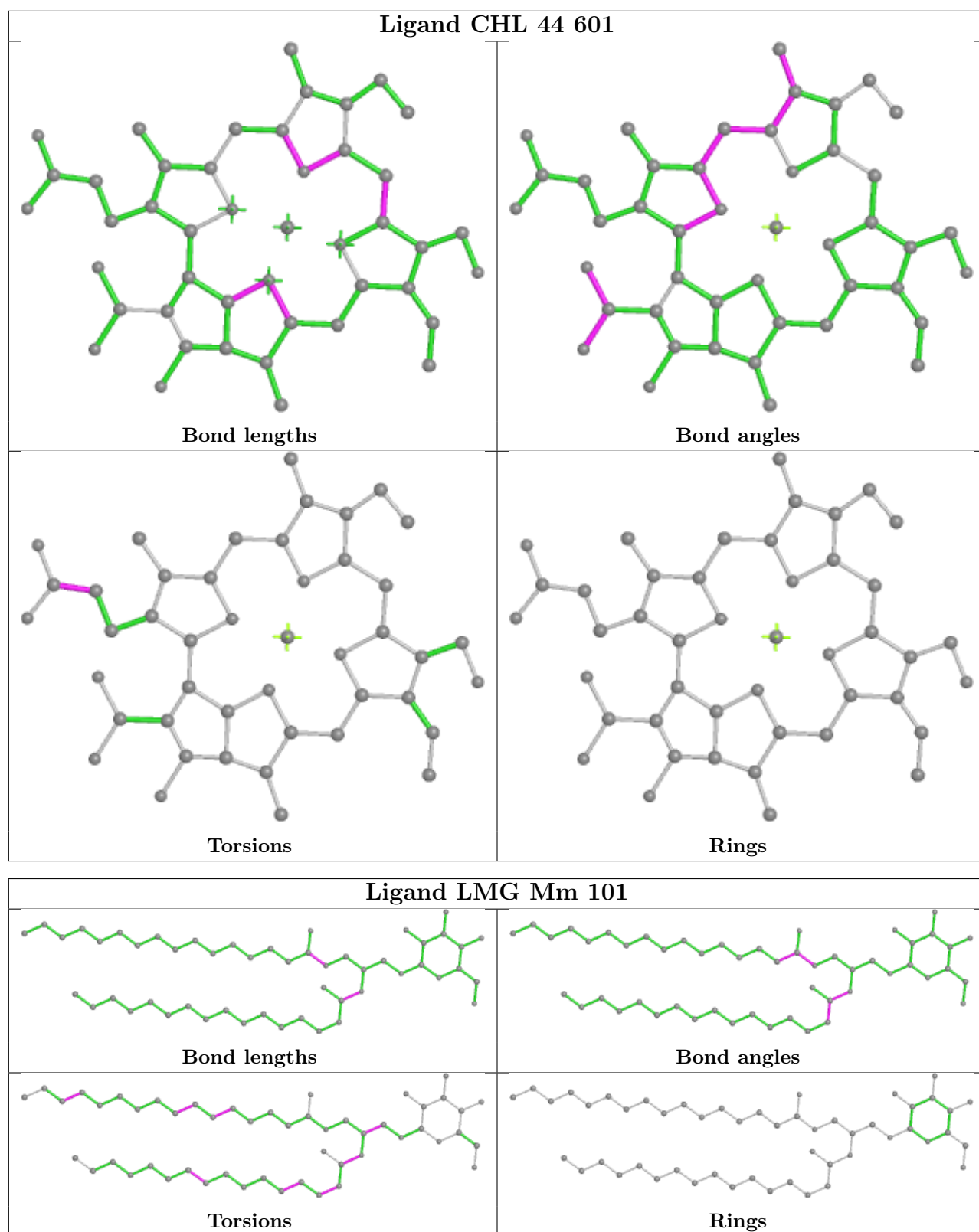


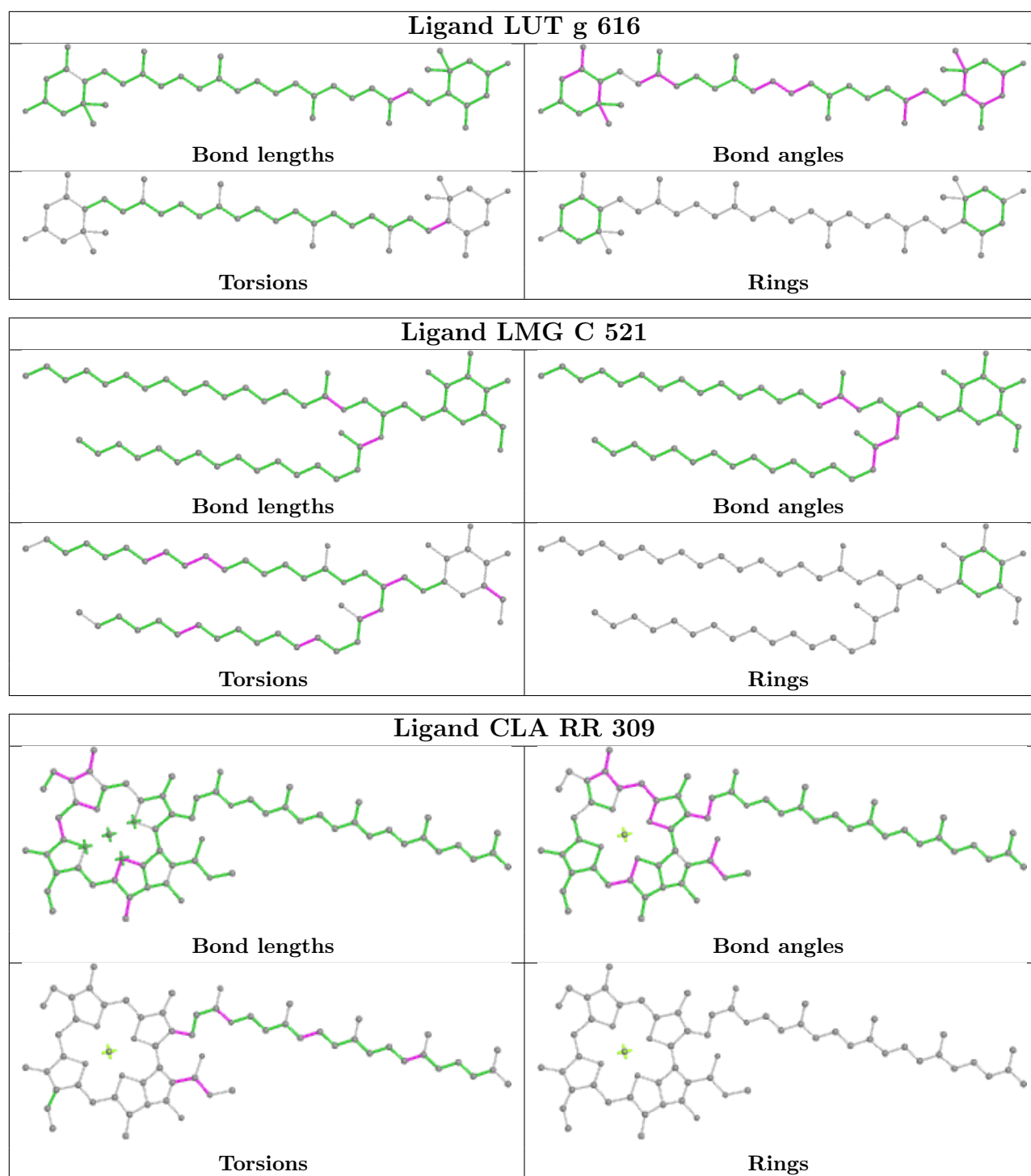
Ligand CLA 4 312

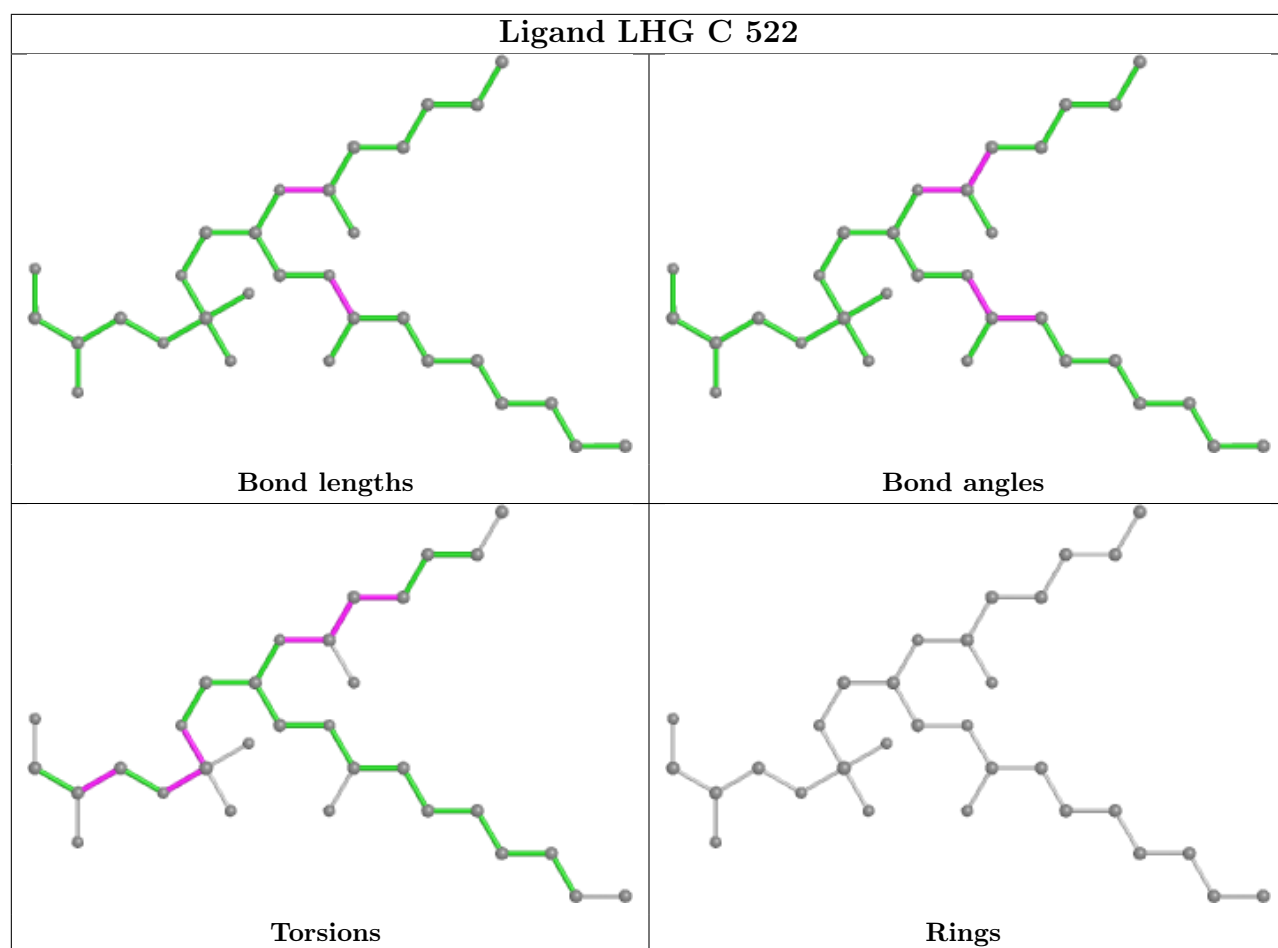




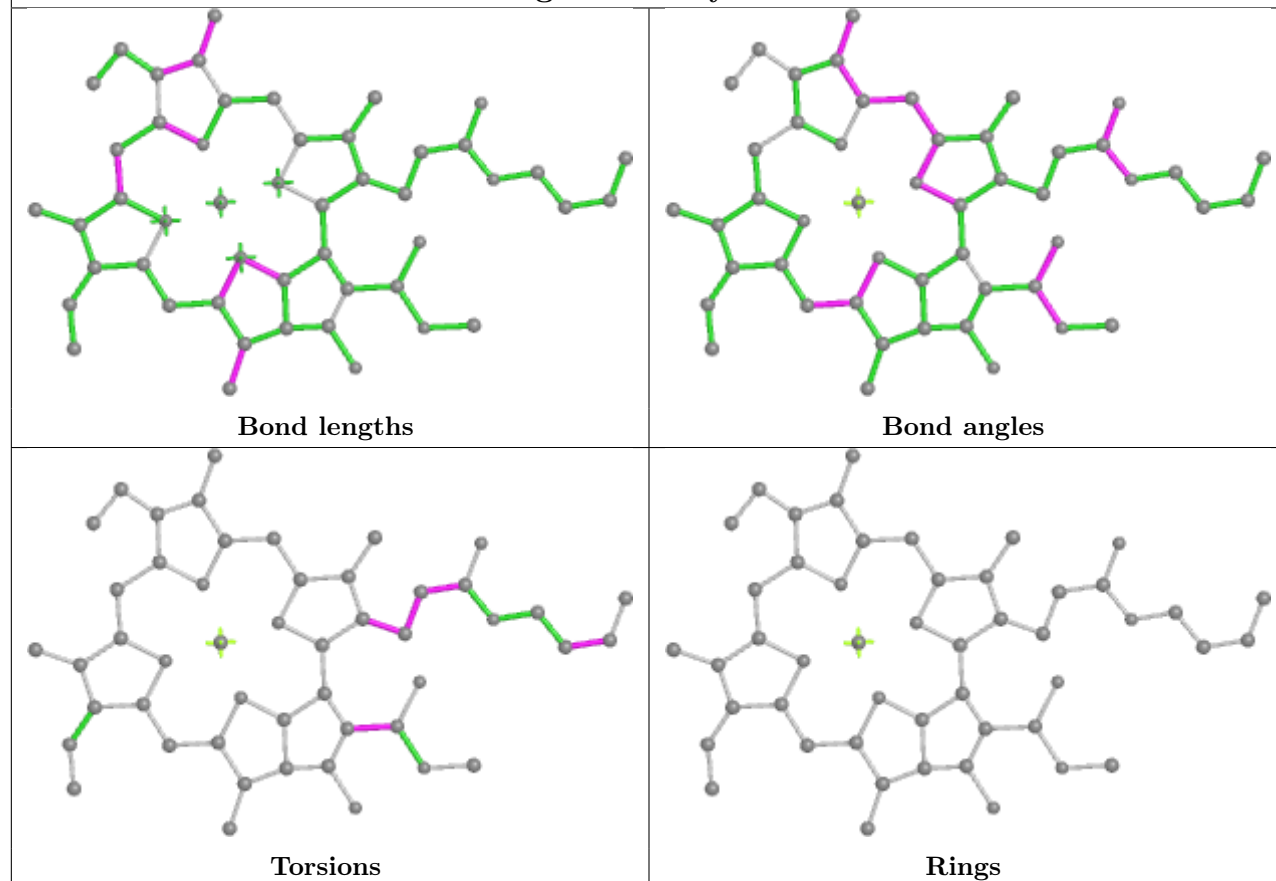




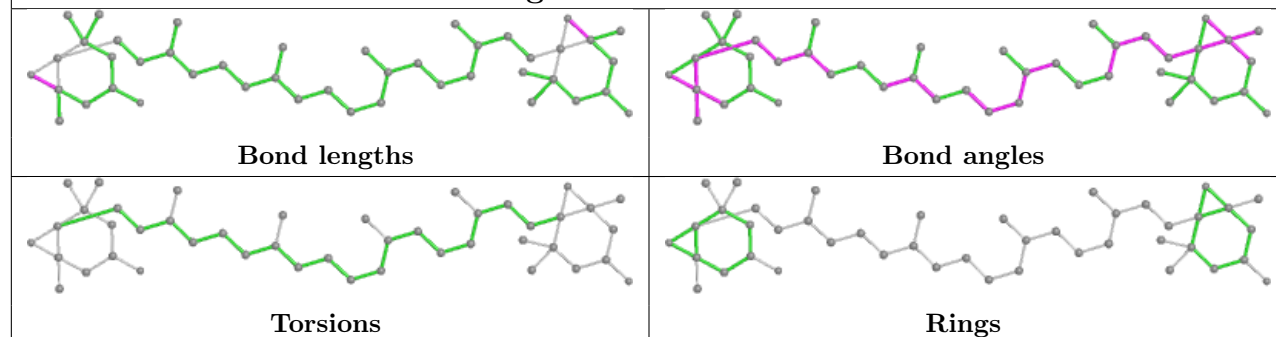




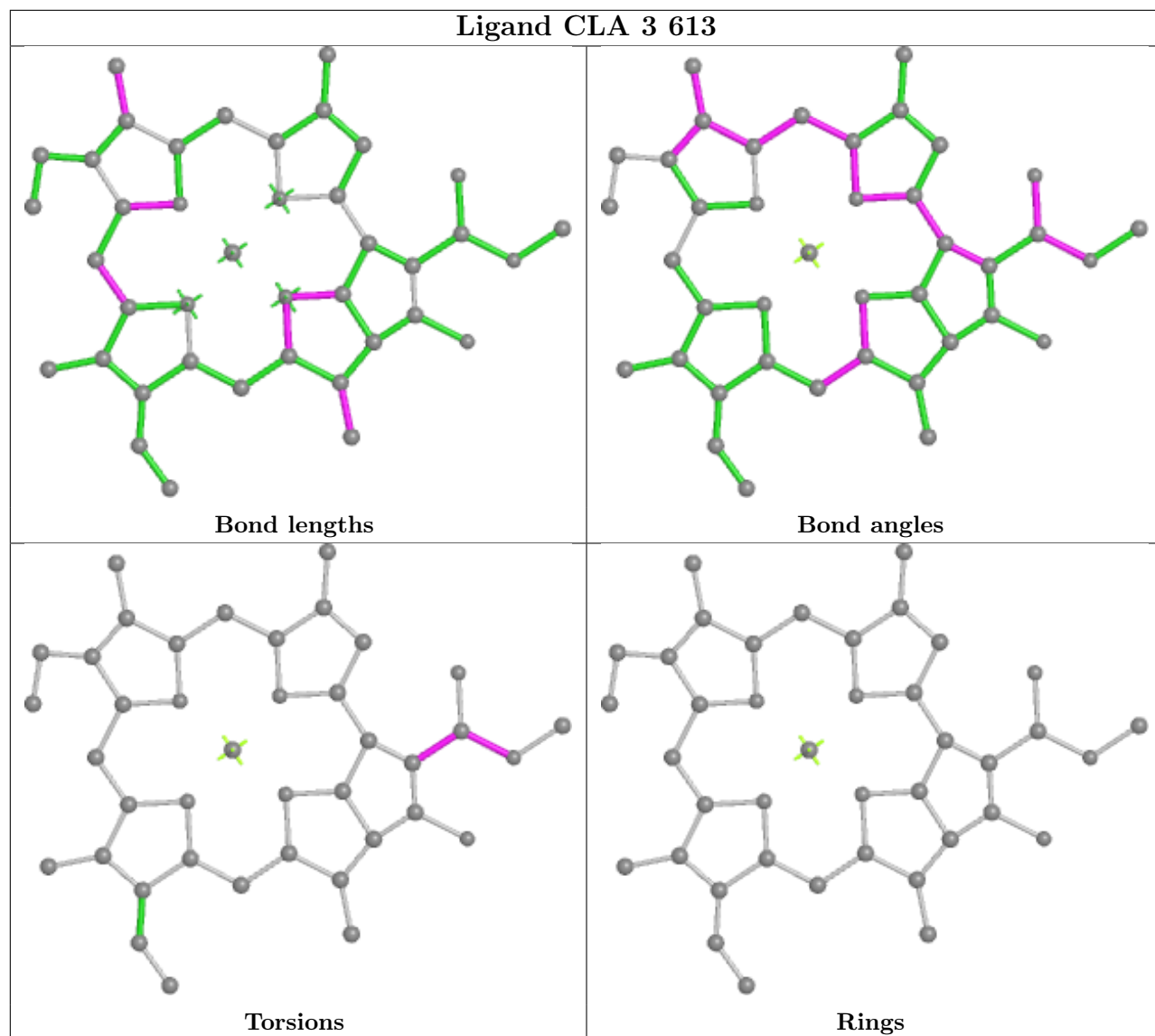
Ligand CLA y 306



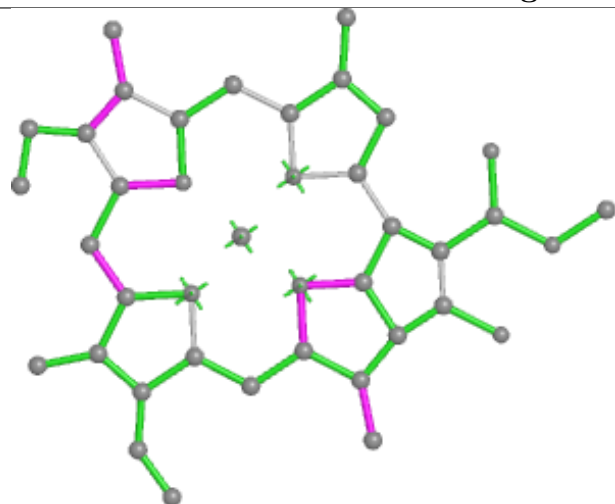
Ligand XAT 44 613



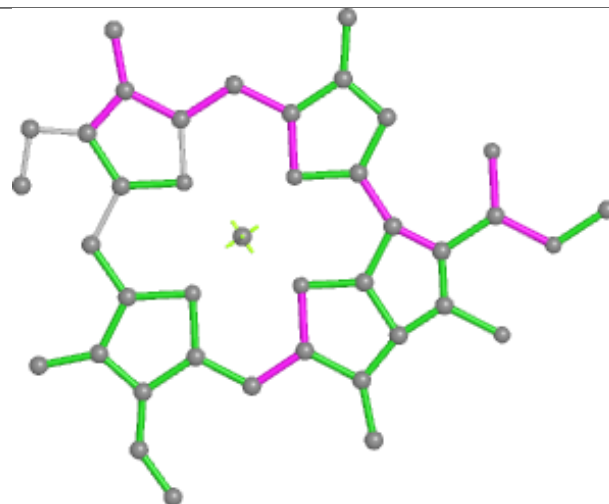
Ligand CLA 3 613



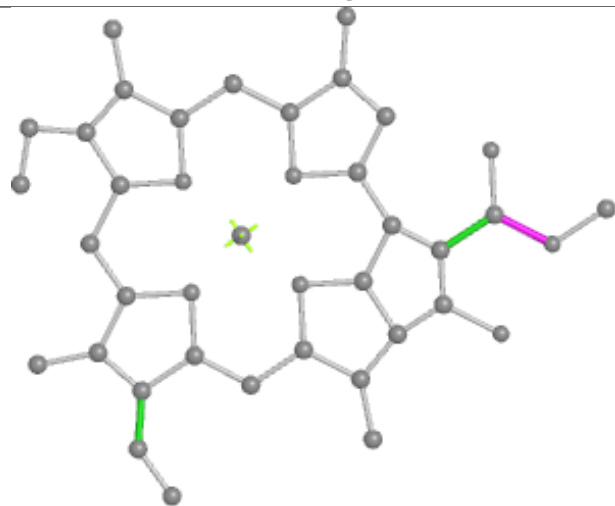
Ligand CLA 2 613



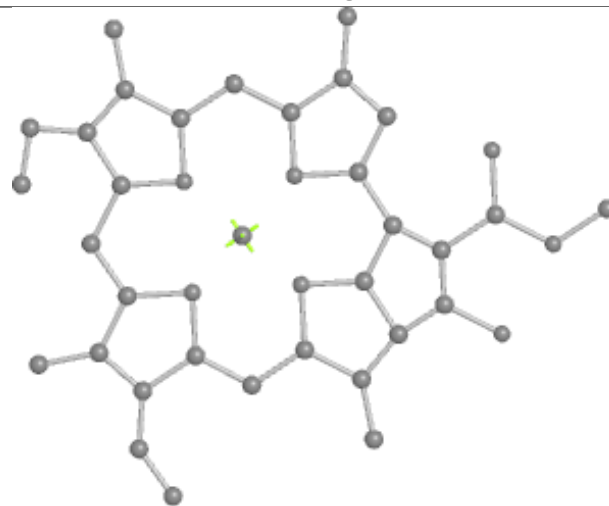
Bond lengths



Bond angles

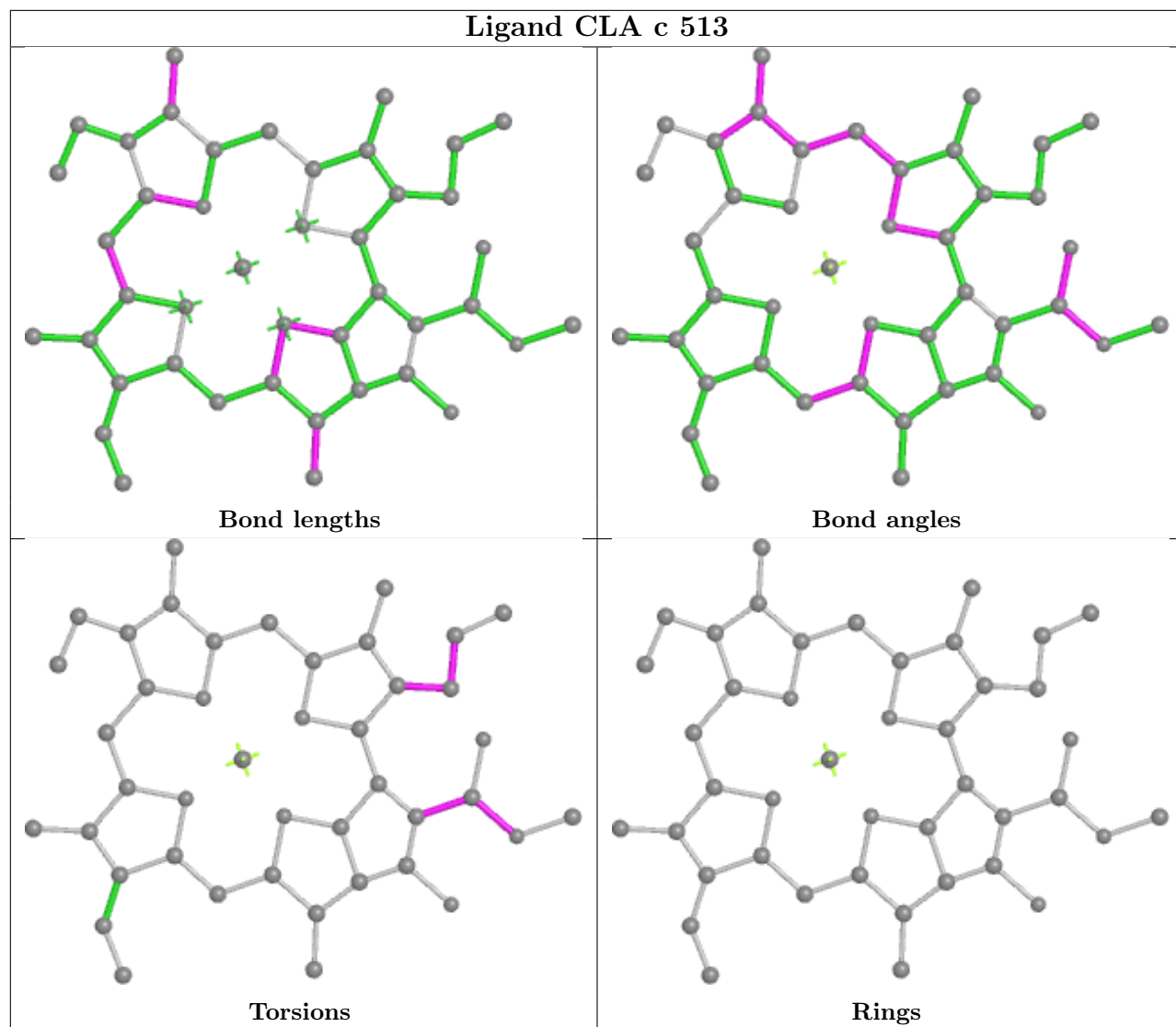


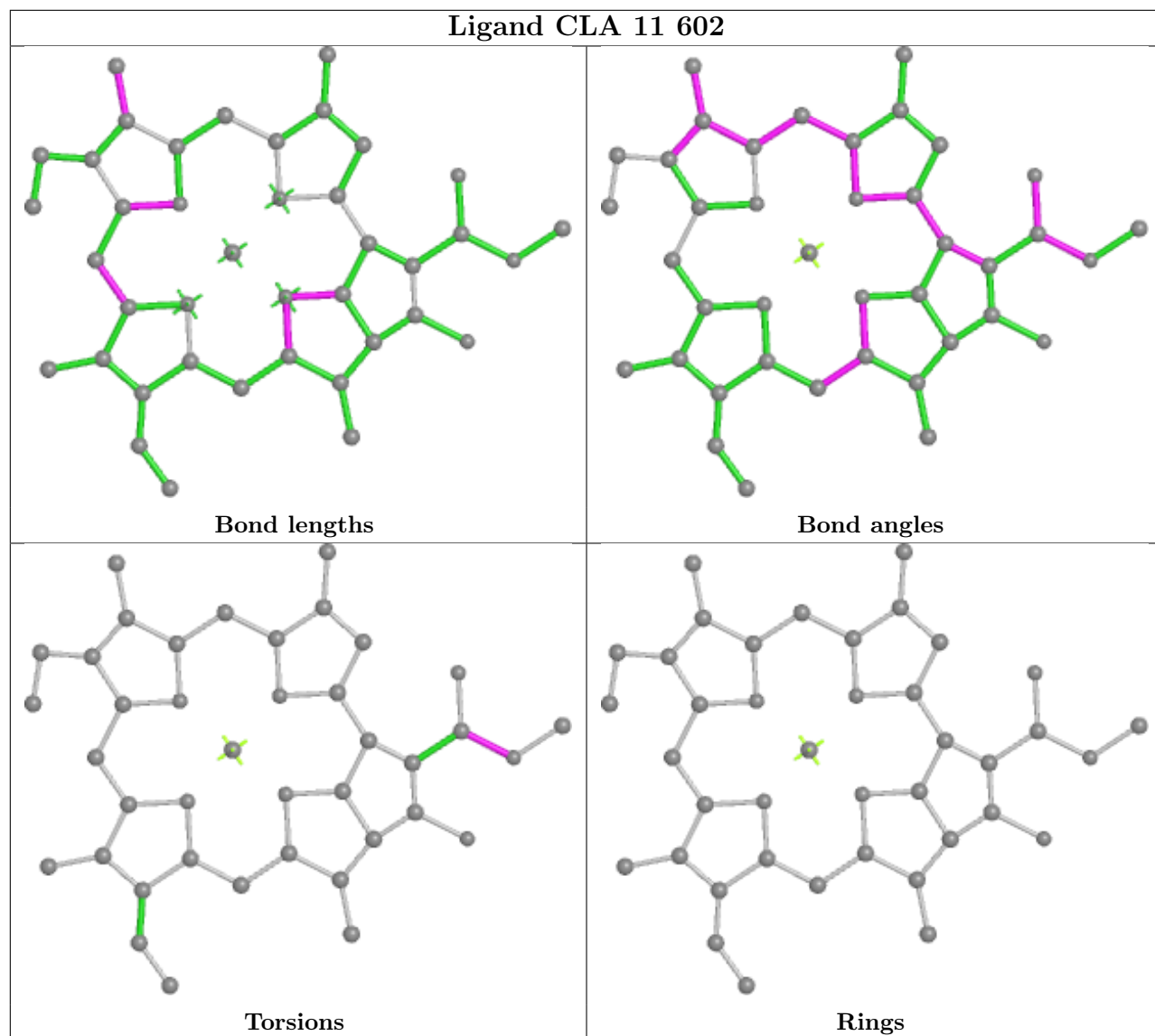
Torsions



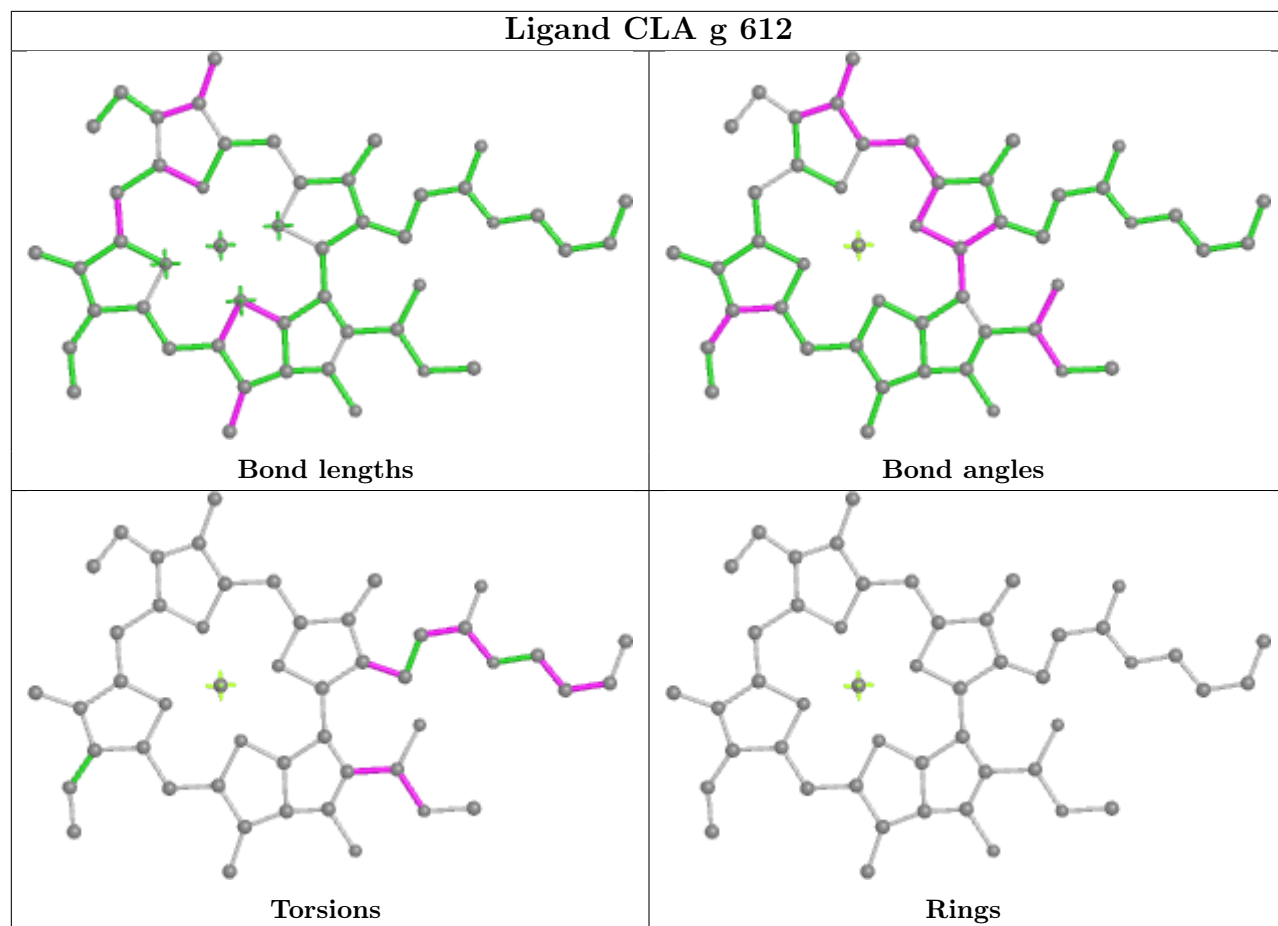
Rings

Ligand CLA c 513

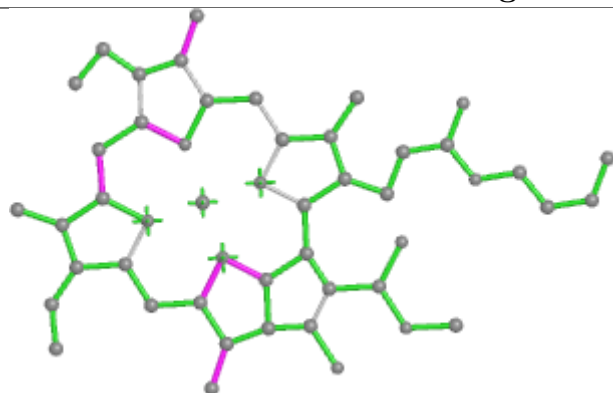




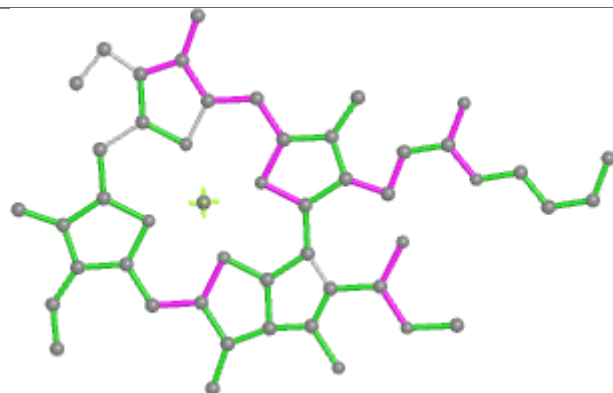
Ligand CLA g 612



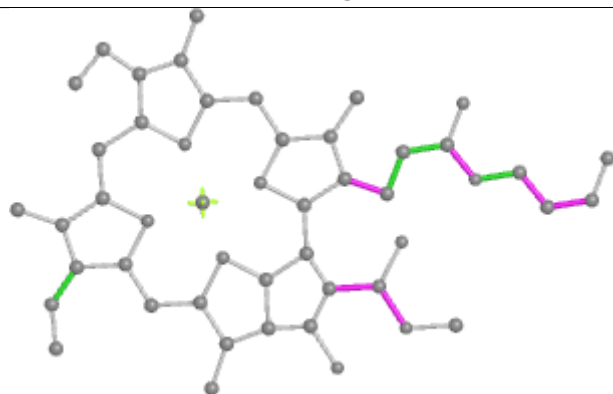
Ligand CLA NN 611



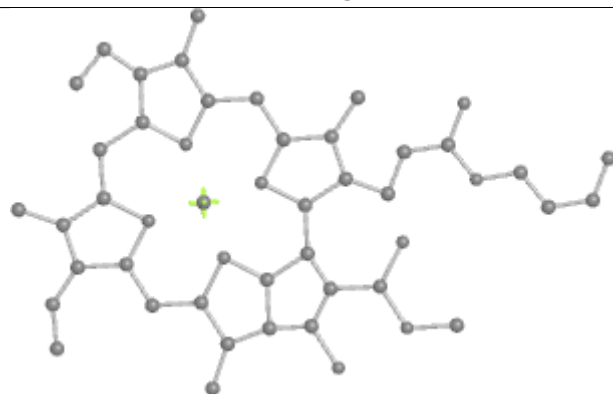
Bond lengths



Bond angles

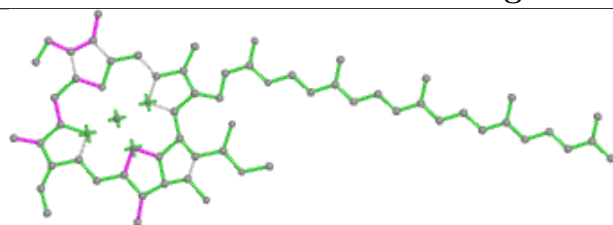


Torsions

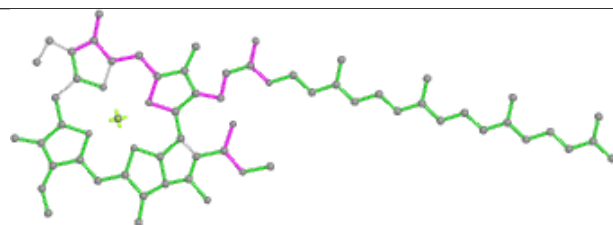


Rings

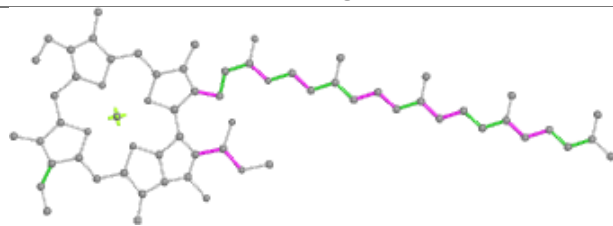
Ligand CLA Bb 603



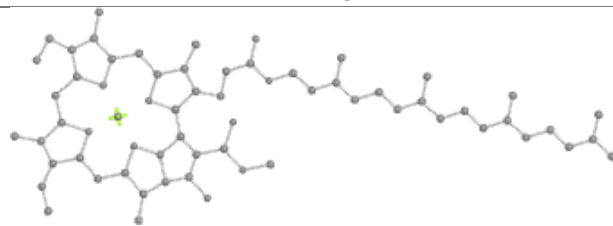
Bond lengths



Bond angles

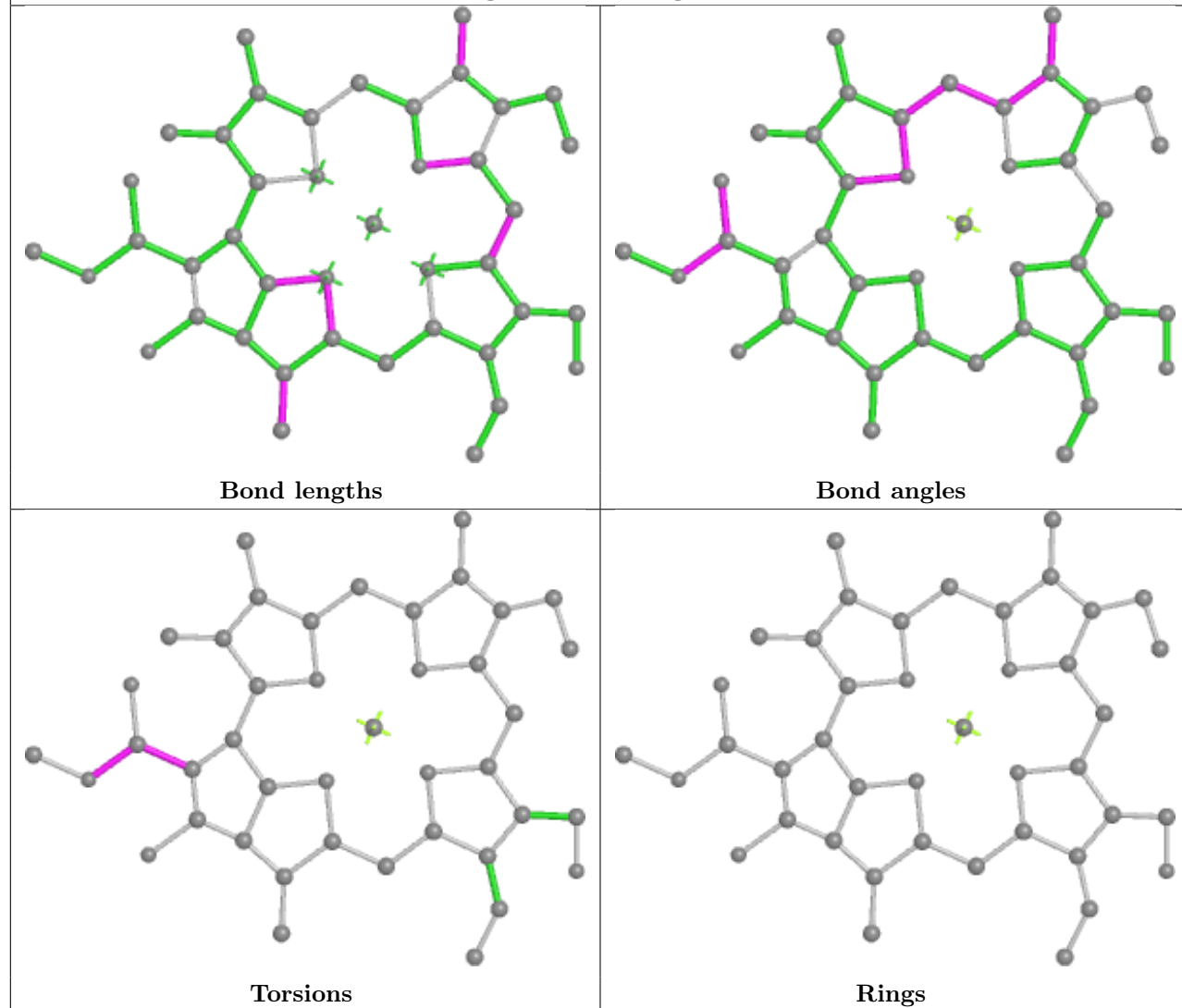


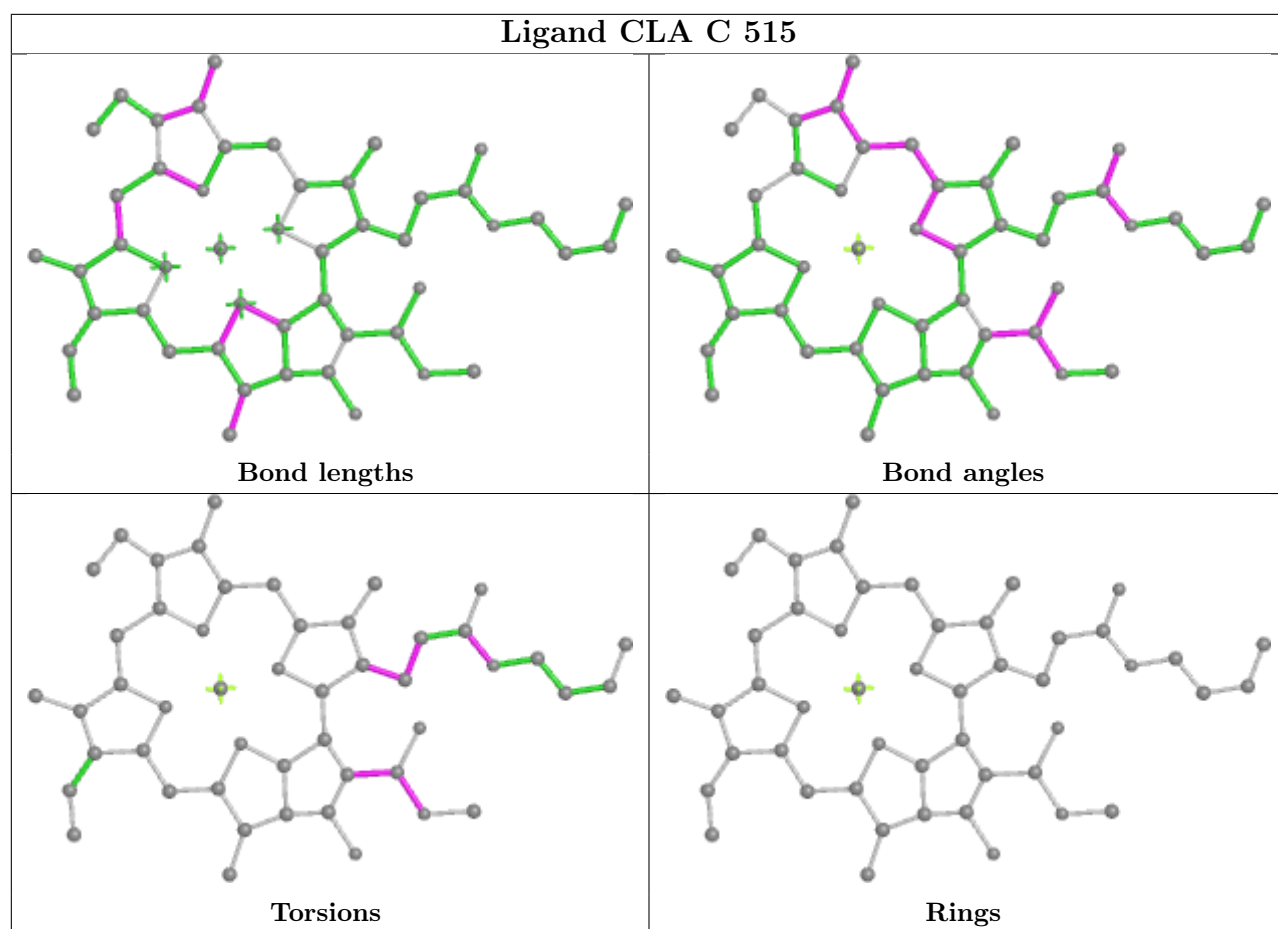
Torsions



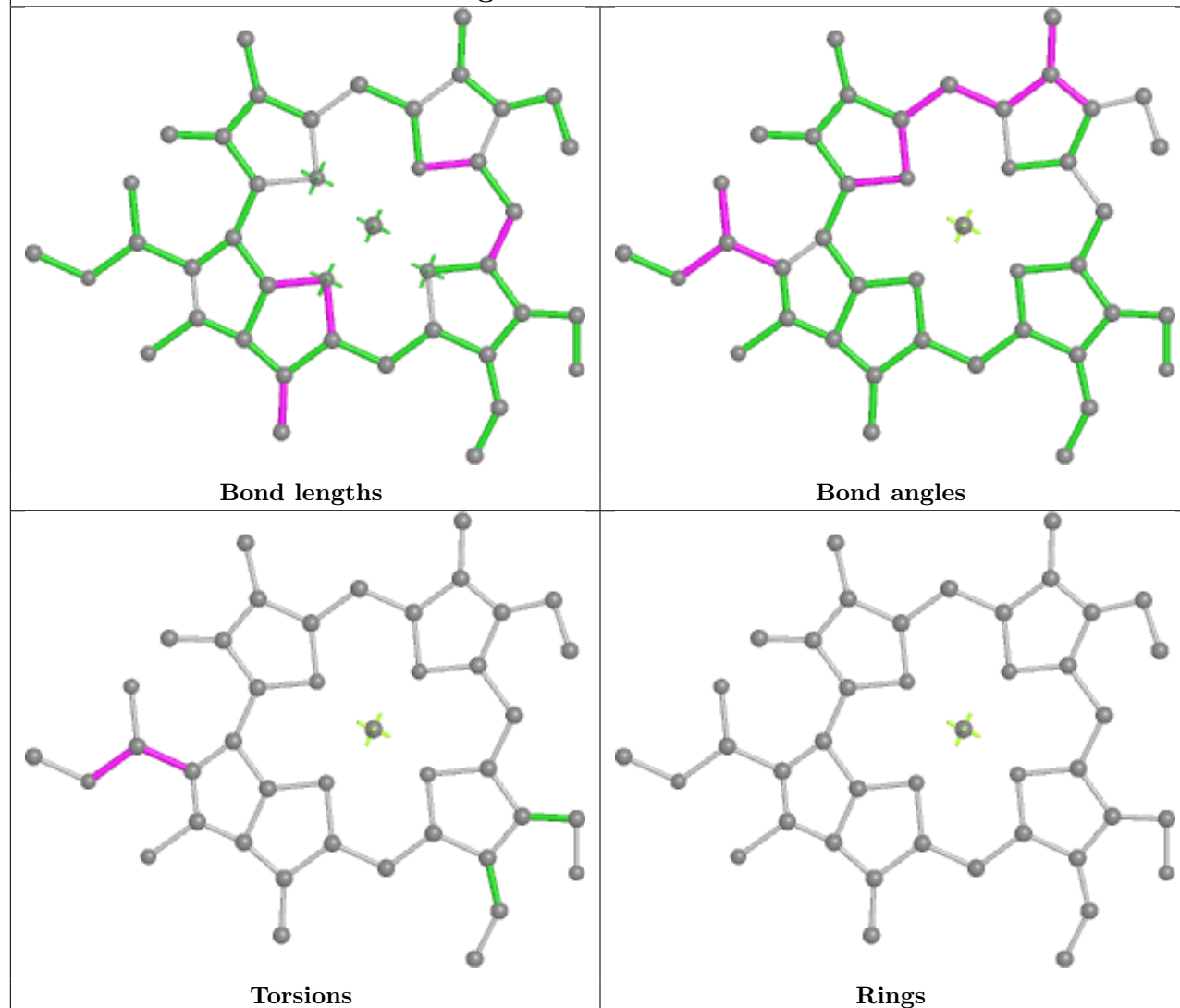
Rings

Ligand CHL Gg 309

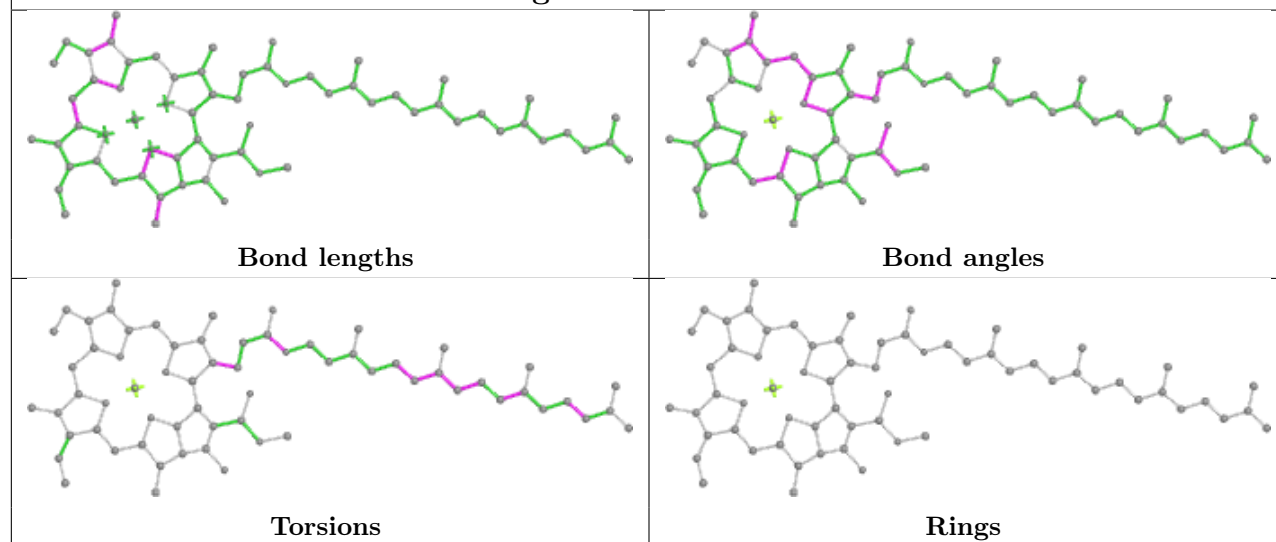


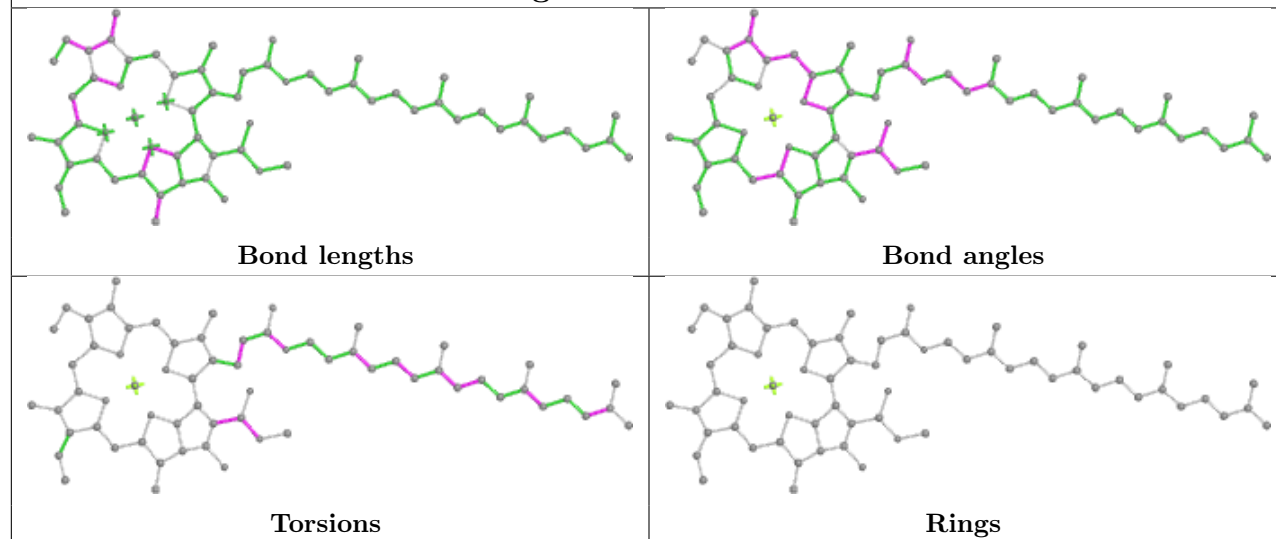
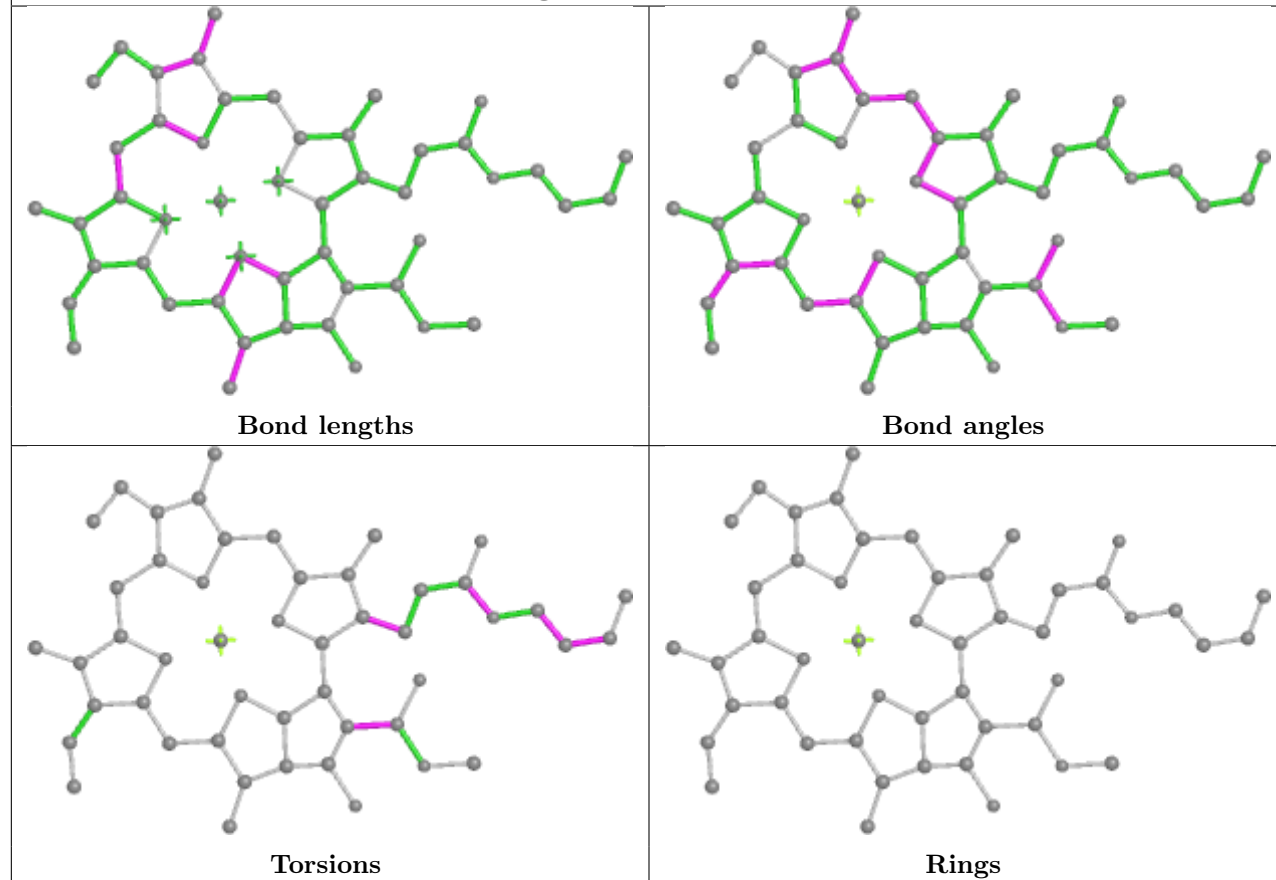


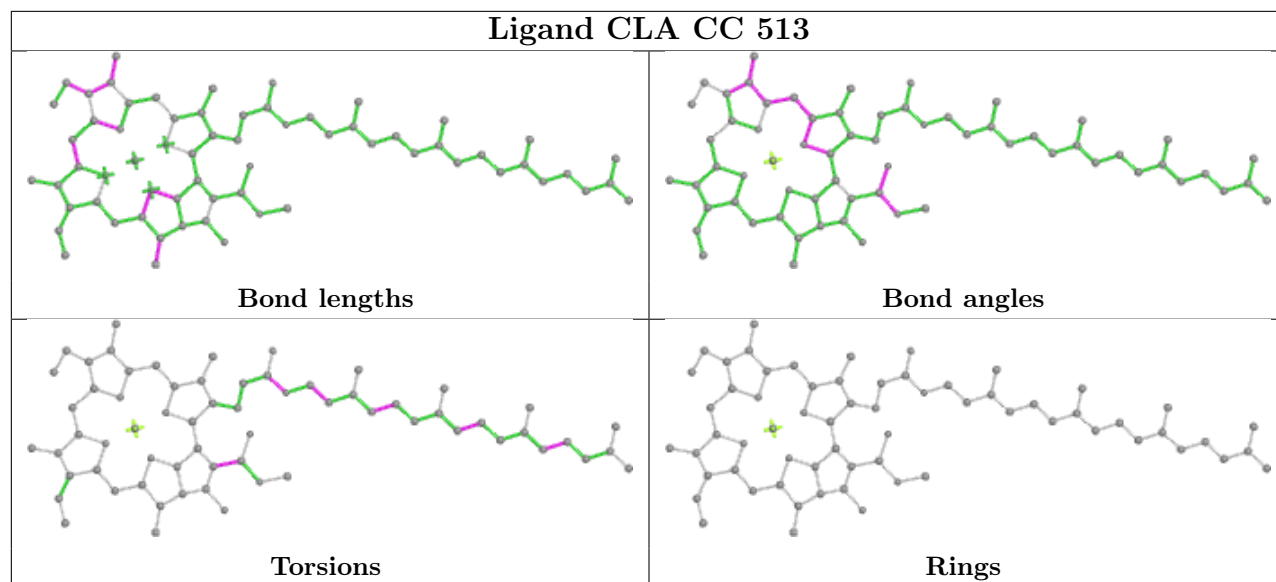
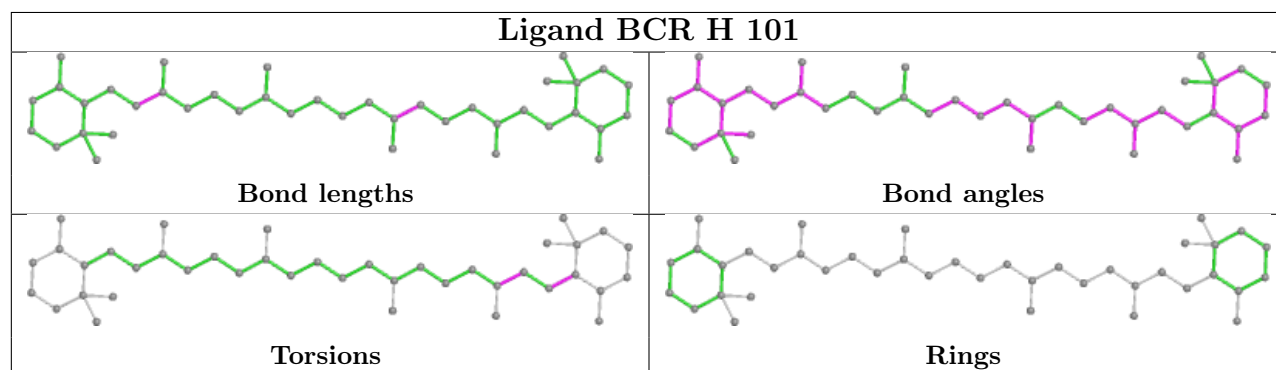
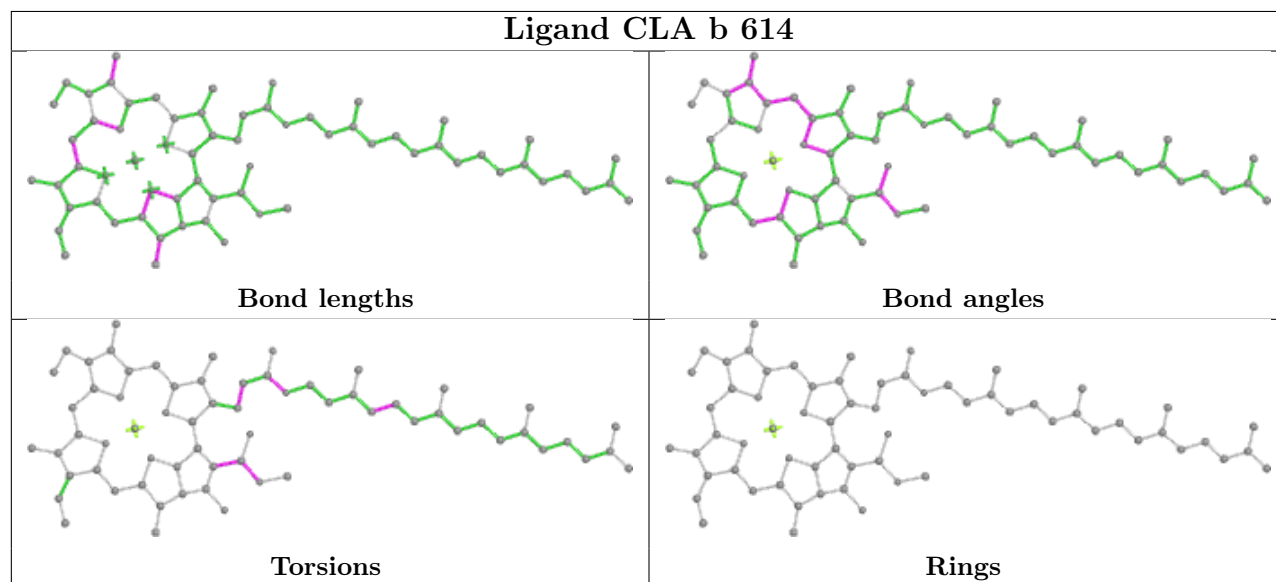
Ligand CHL NN 605



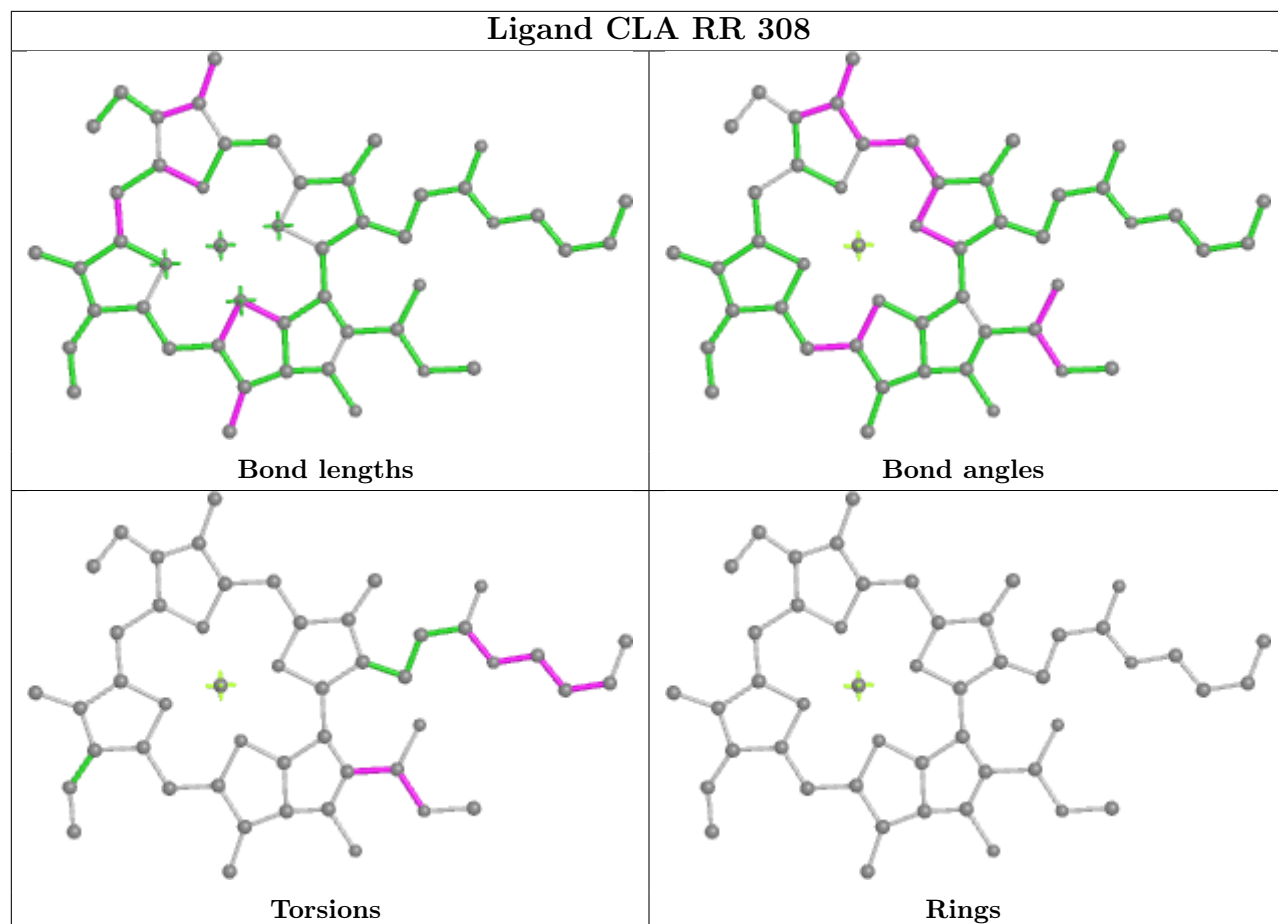
Ligand CLA C 503

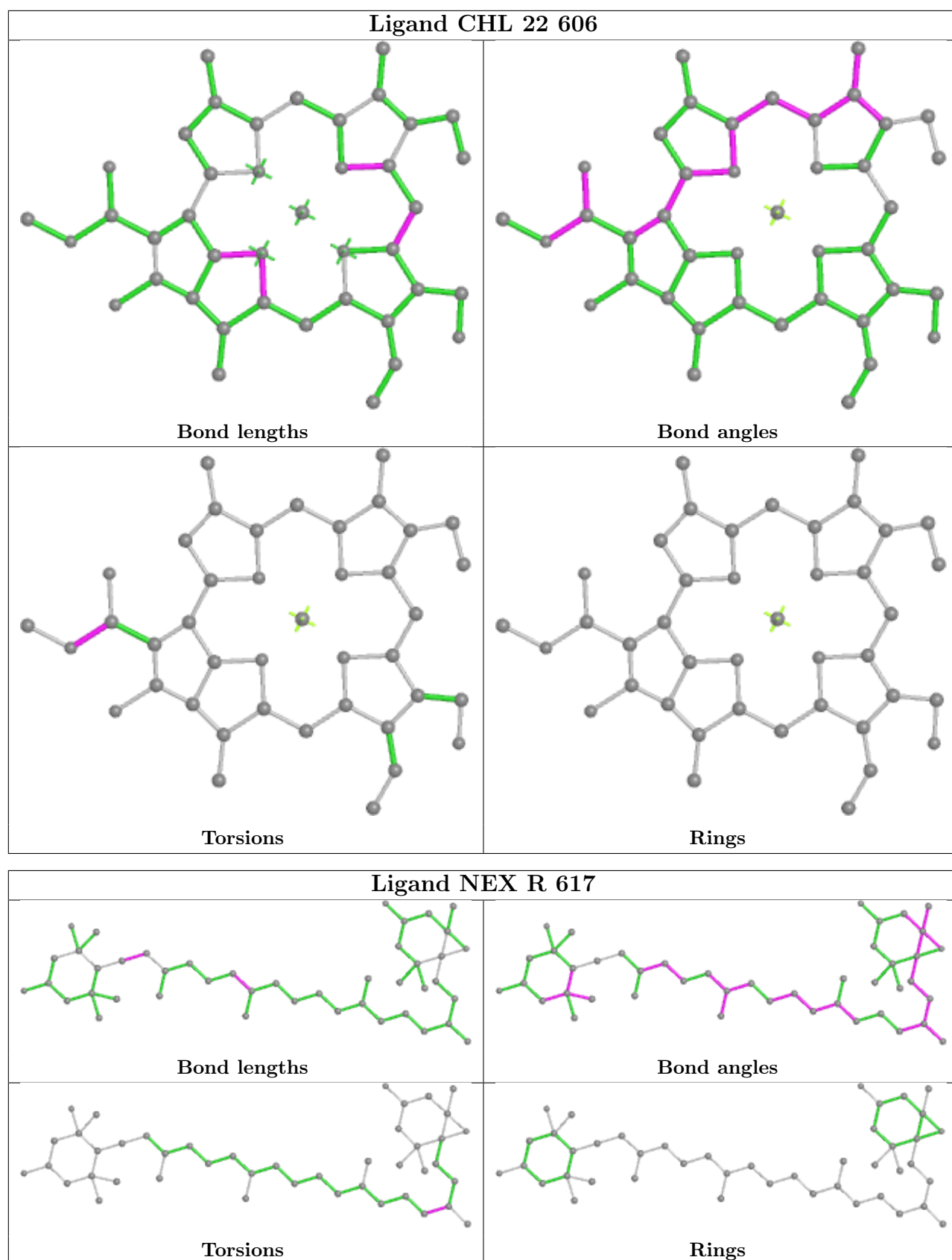


Ligand CLA B 622**Ligand CLA S 604**

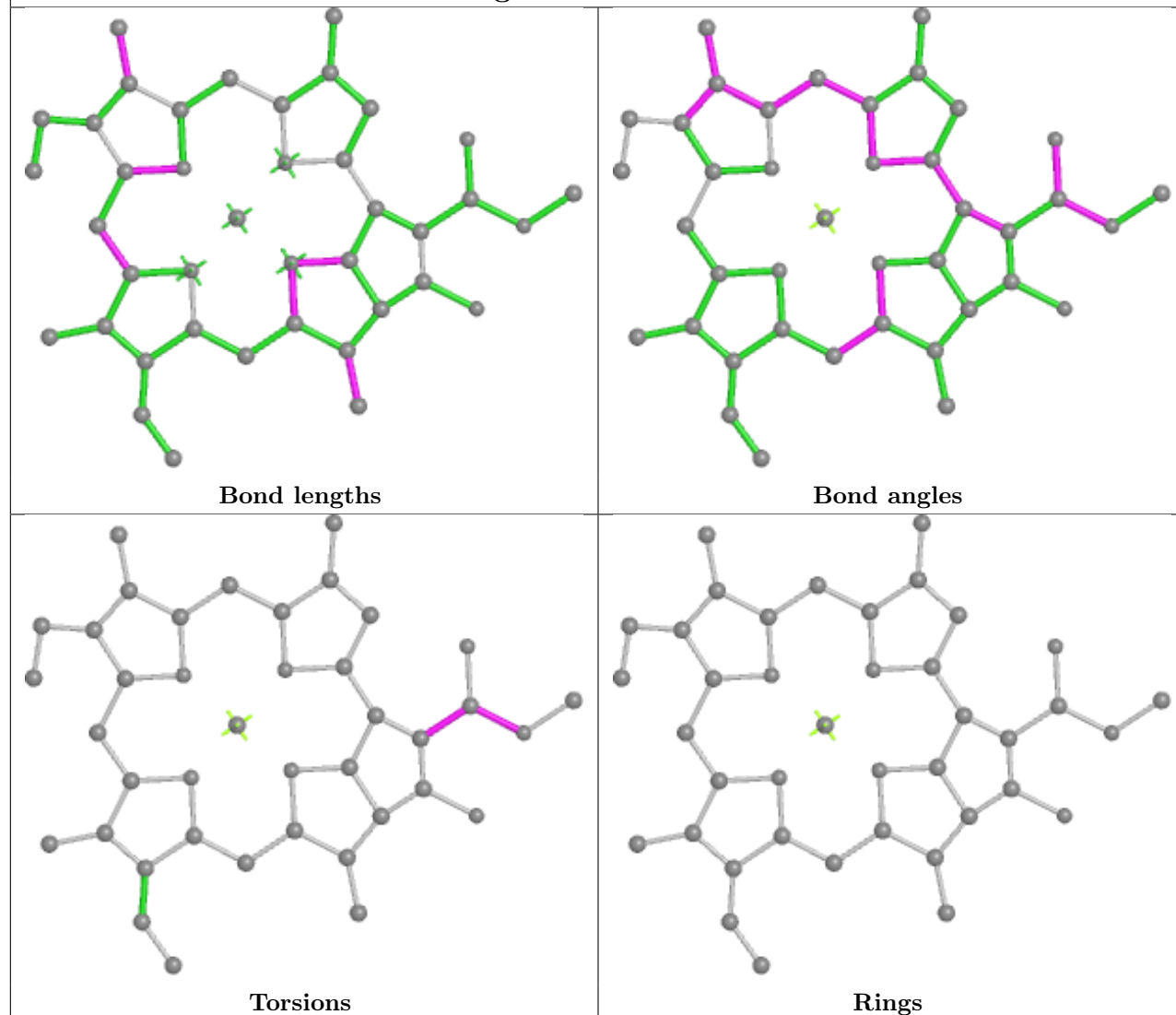
Ligand CLA CC 513**Ligand BCR H 101****Ligand CLA b 614**

Ligand CLA RR 308

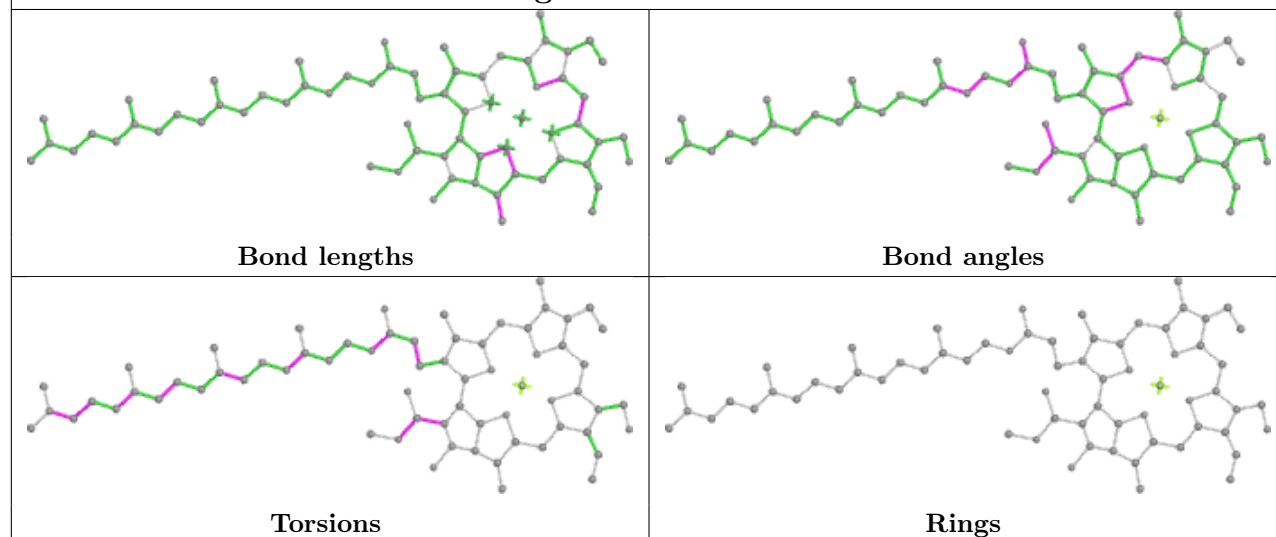


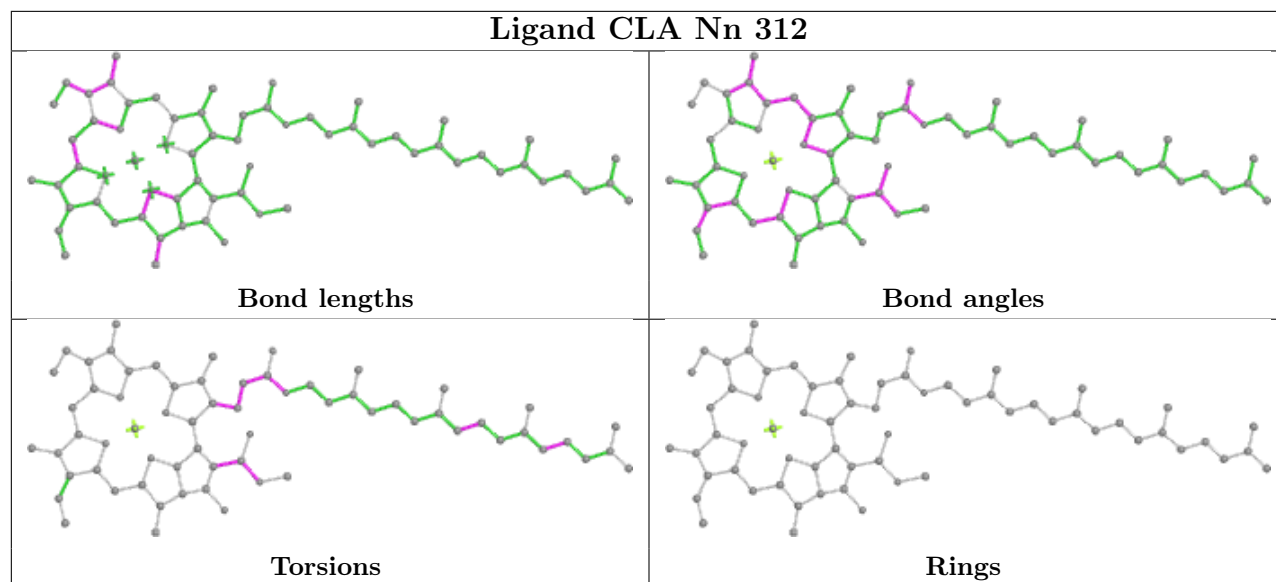
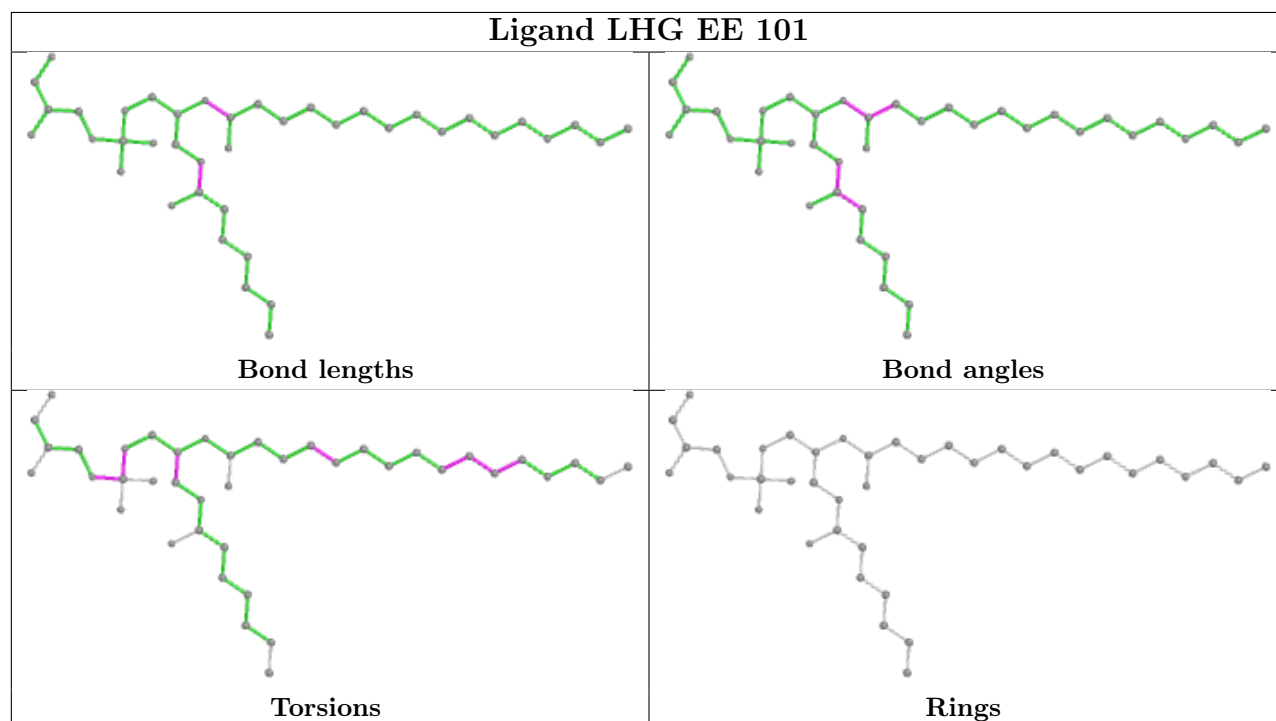


Ligand CLA 2 604

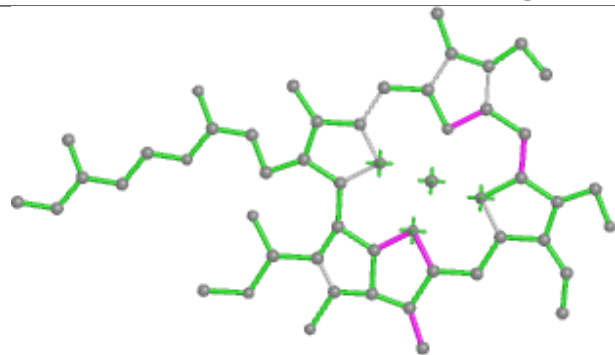


Ligand CHL n 607

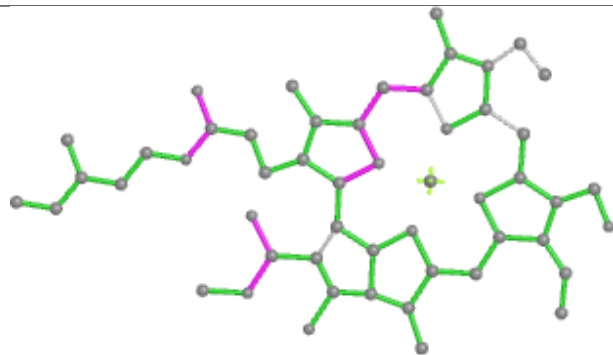


Ligand CLA Nn 312**Ligand LHG EE 101**

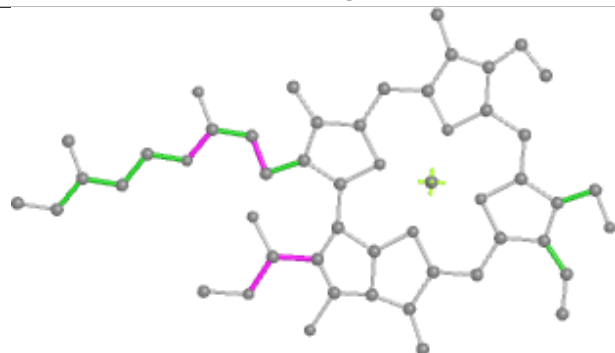
Ligand CHL S 601



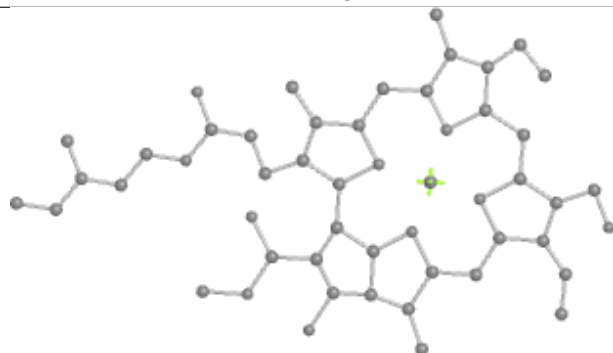
Bond lengths



Bond angles

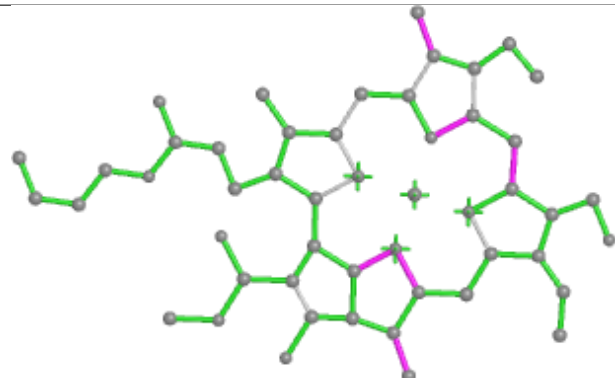


Torsions

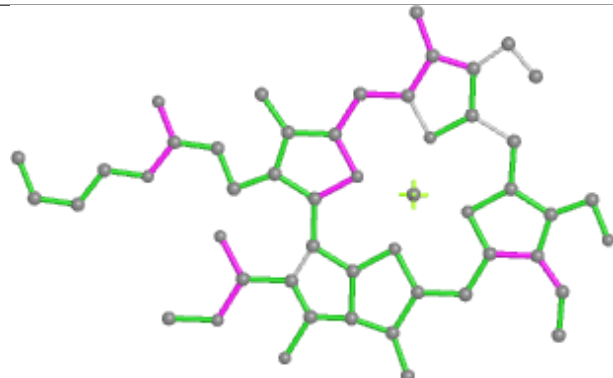


Rings

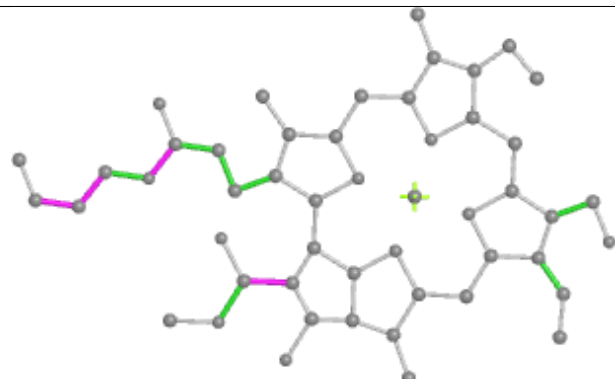
Ligand CHL Nn 319



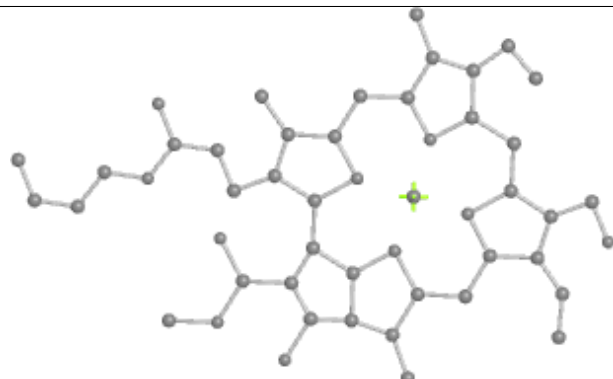
Bond lengths



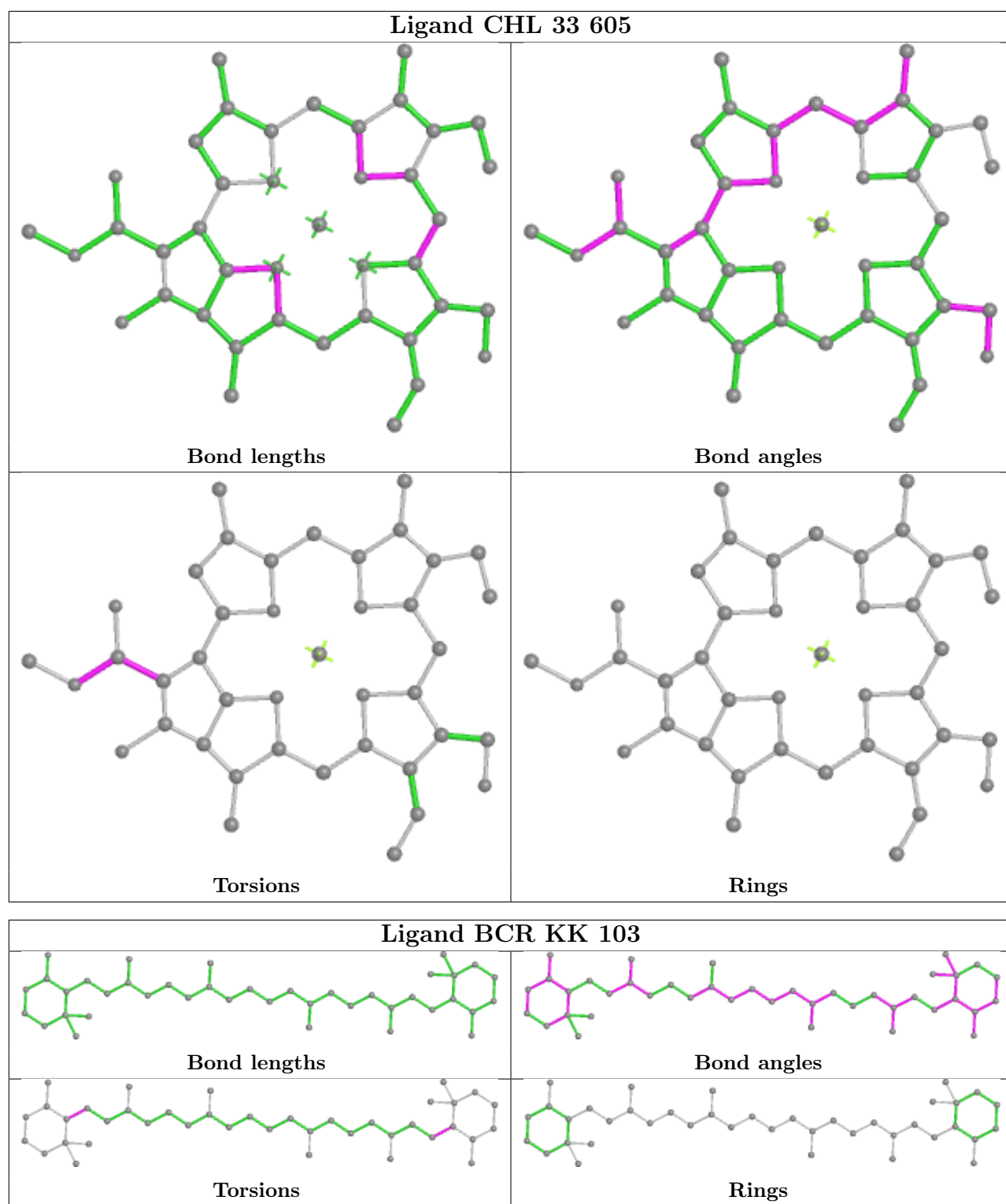
Bond angles



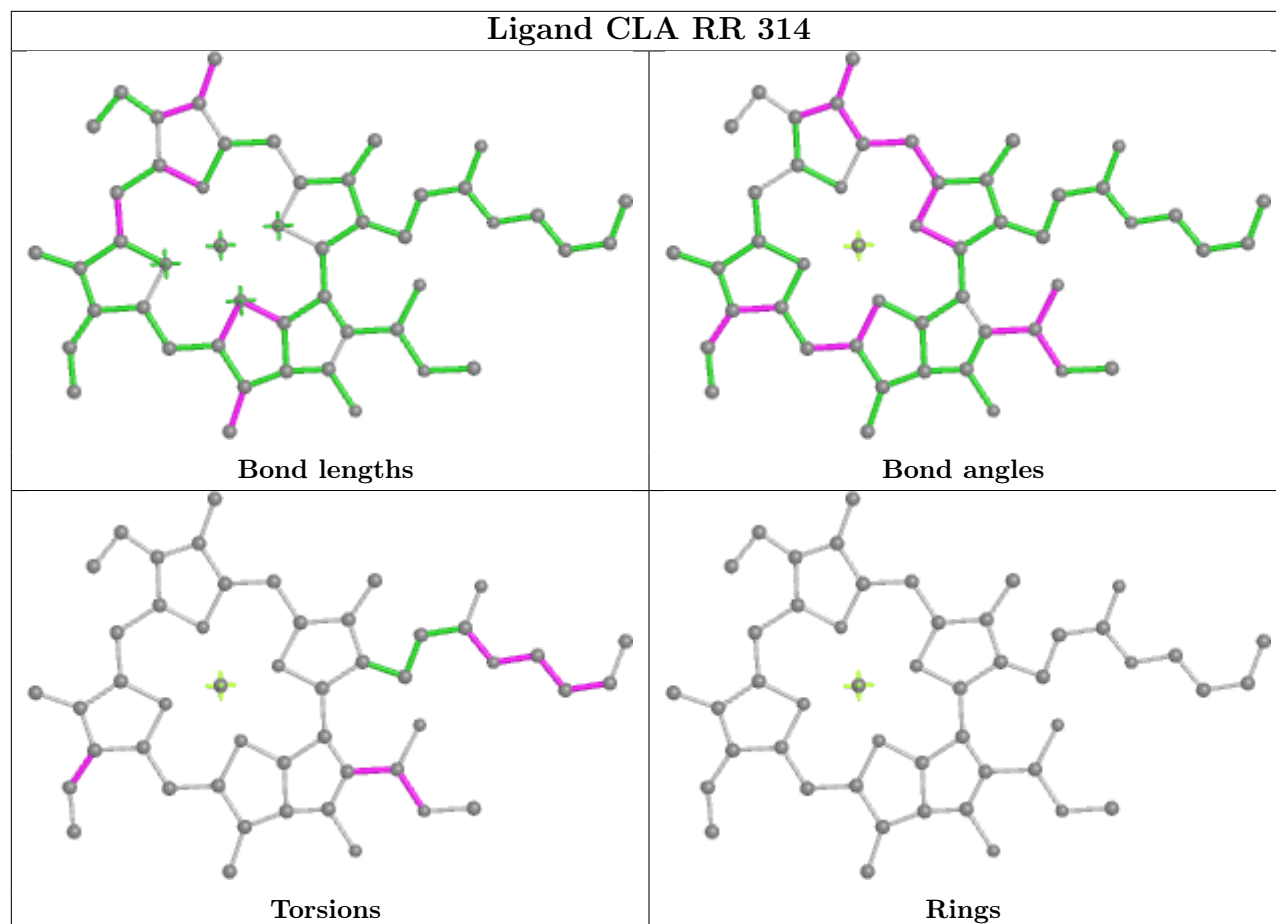
Torsions



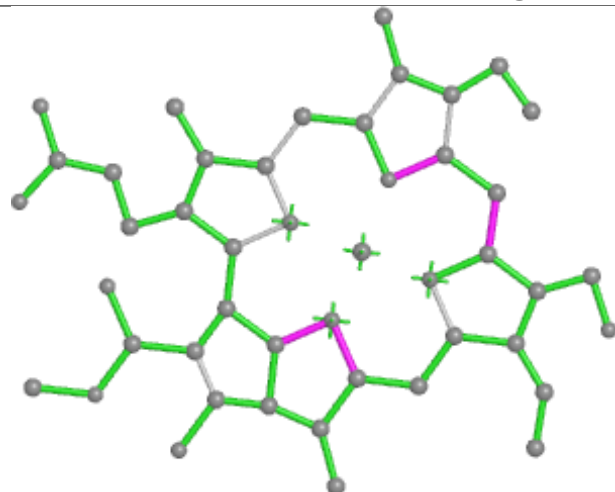
Rings



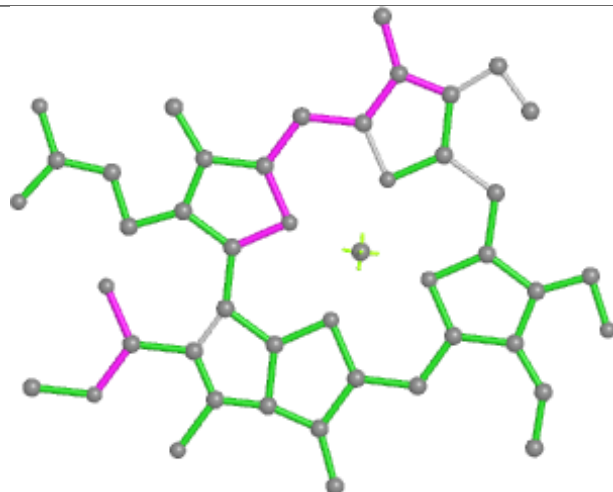
Ligand CLA RR 314



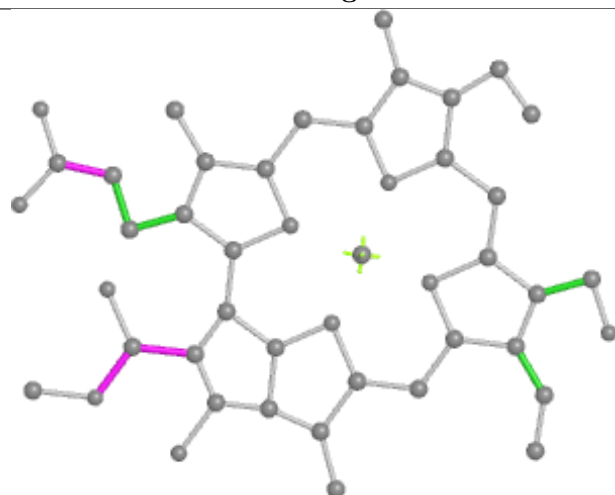
Ligand CHL 44 605



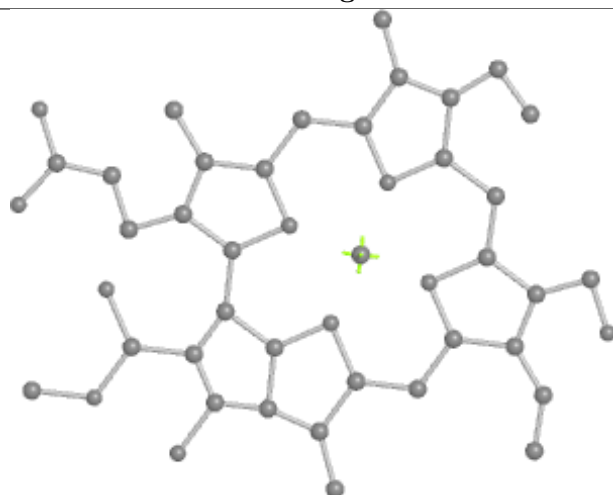
Bond lengths



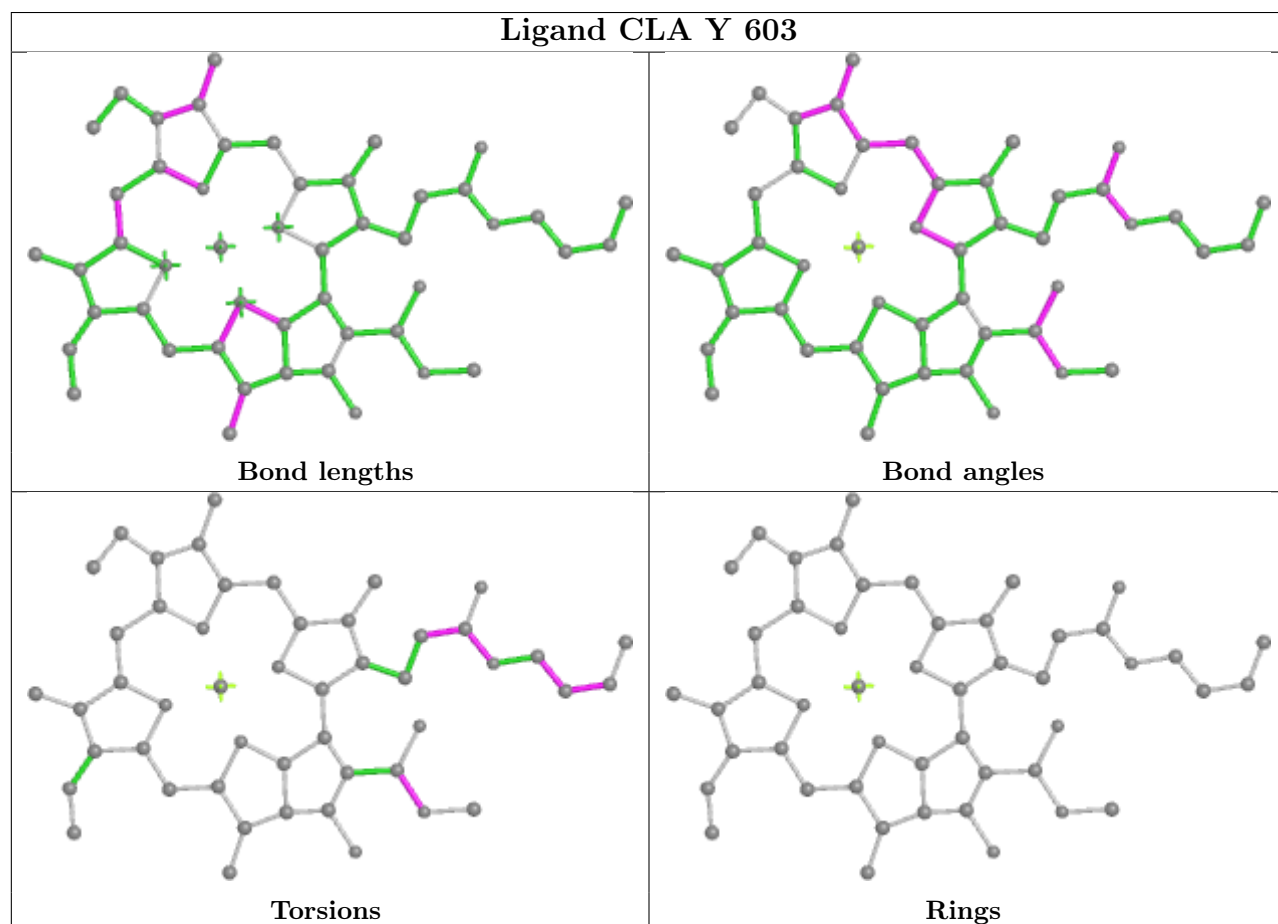
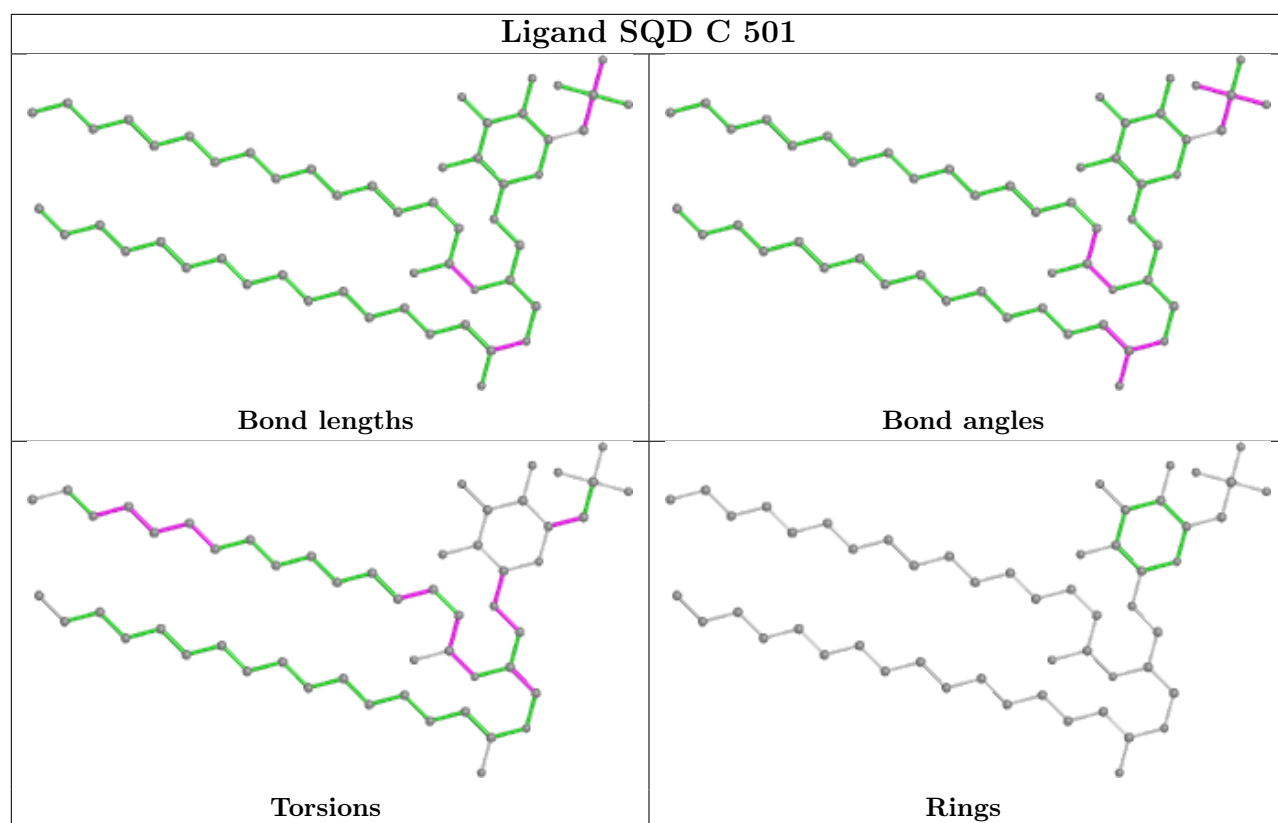
Bond angles



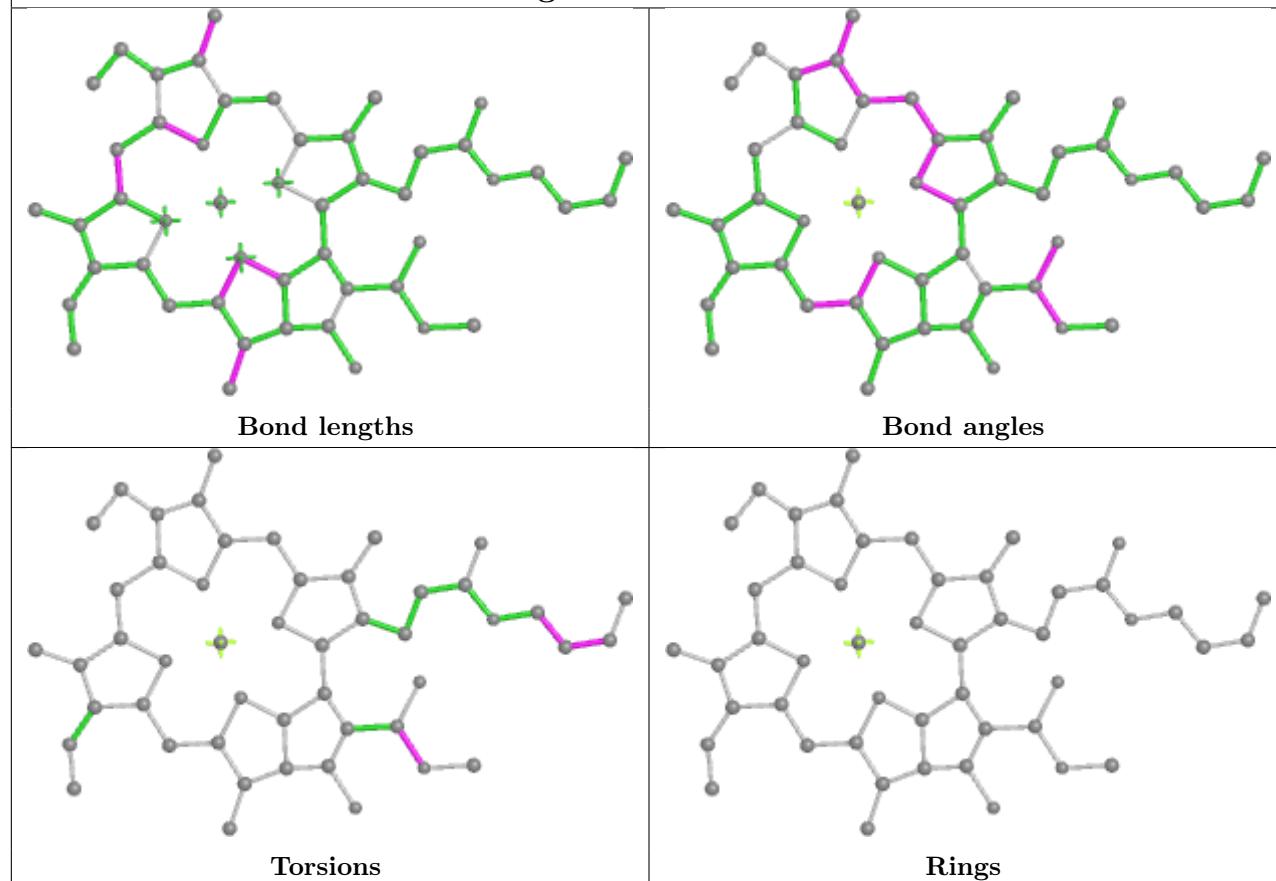
Torsions



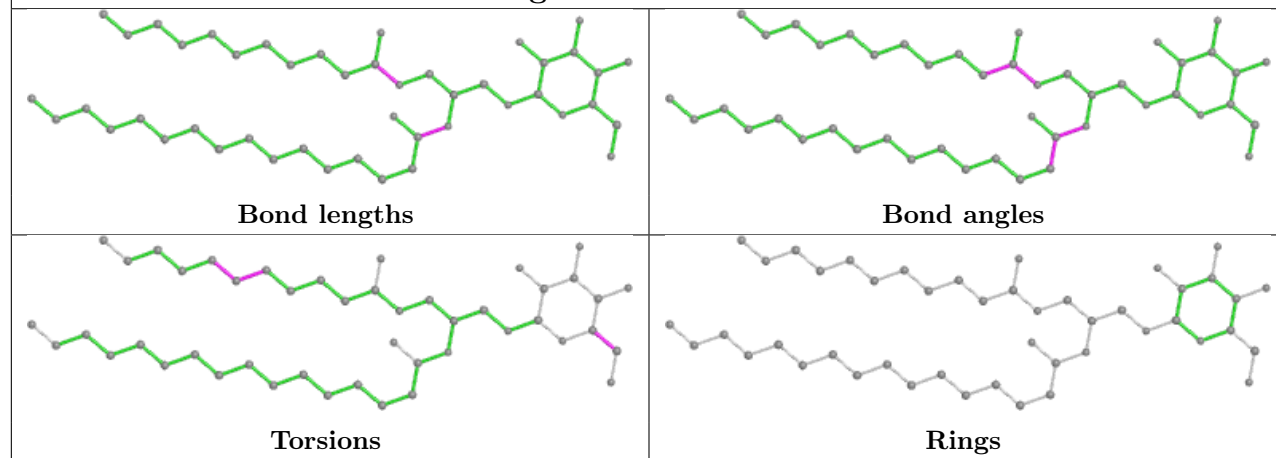
Rings

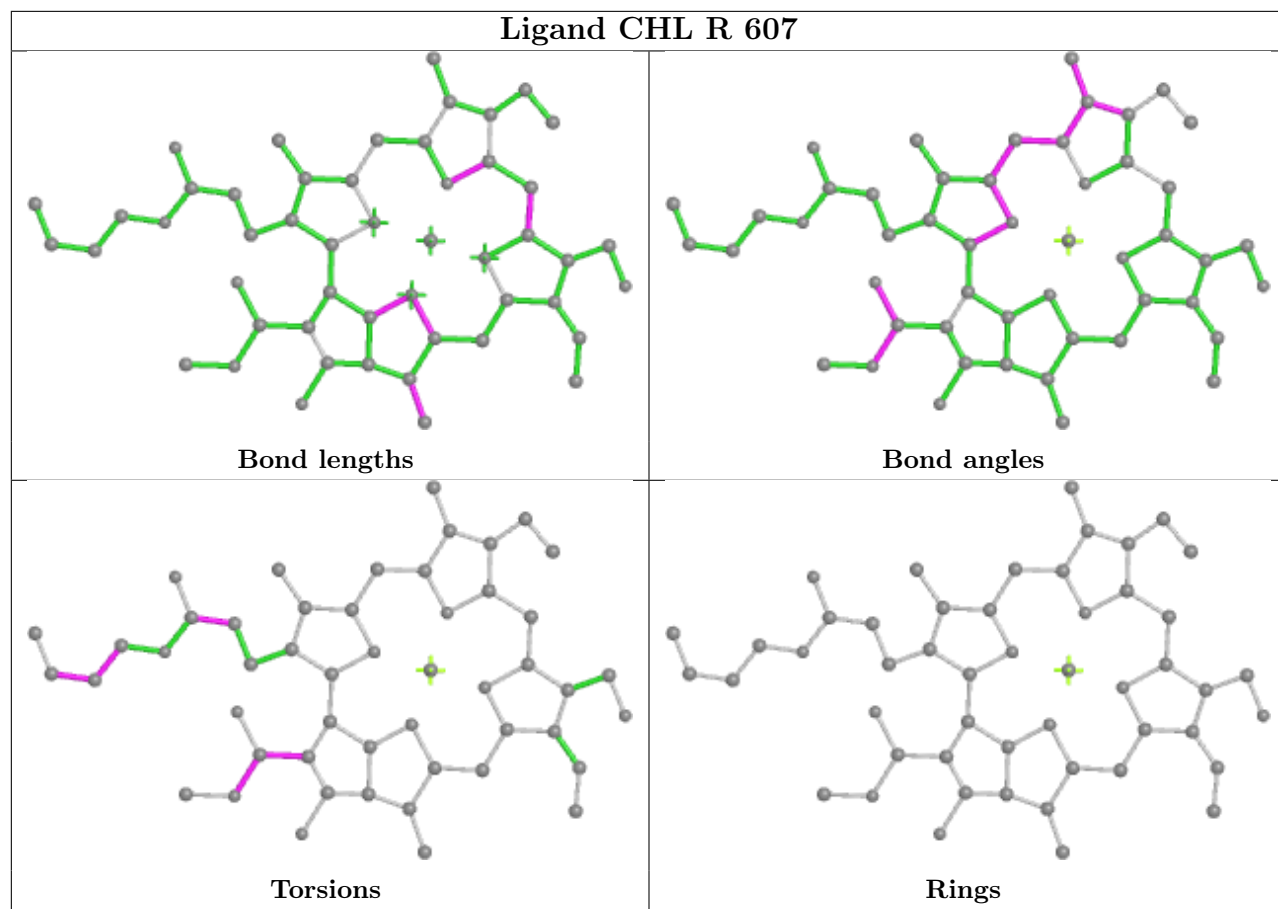


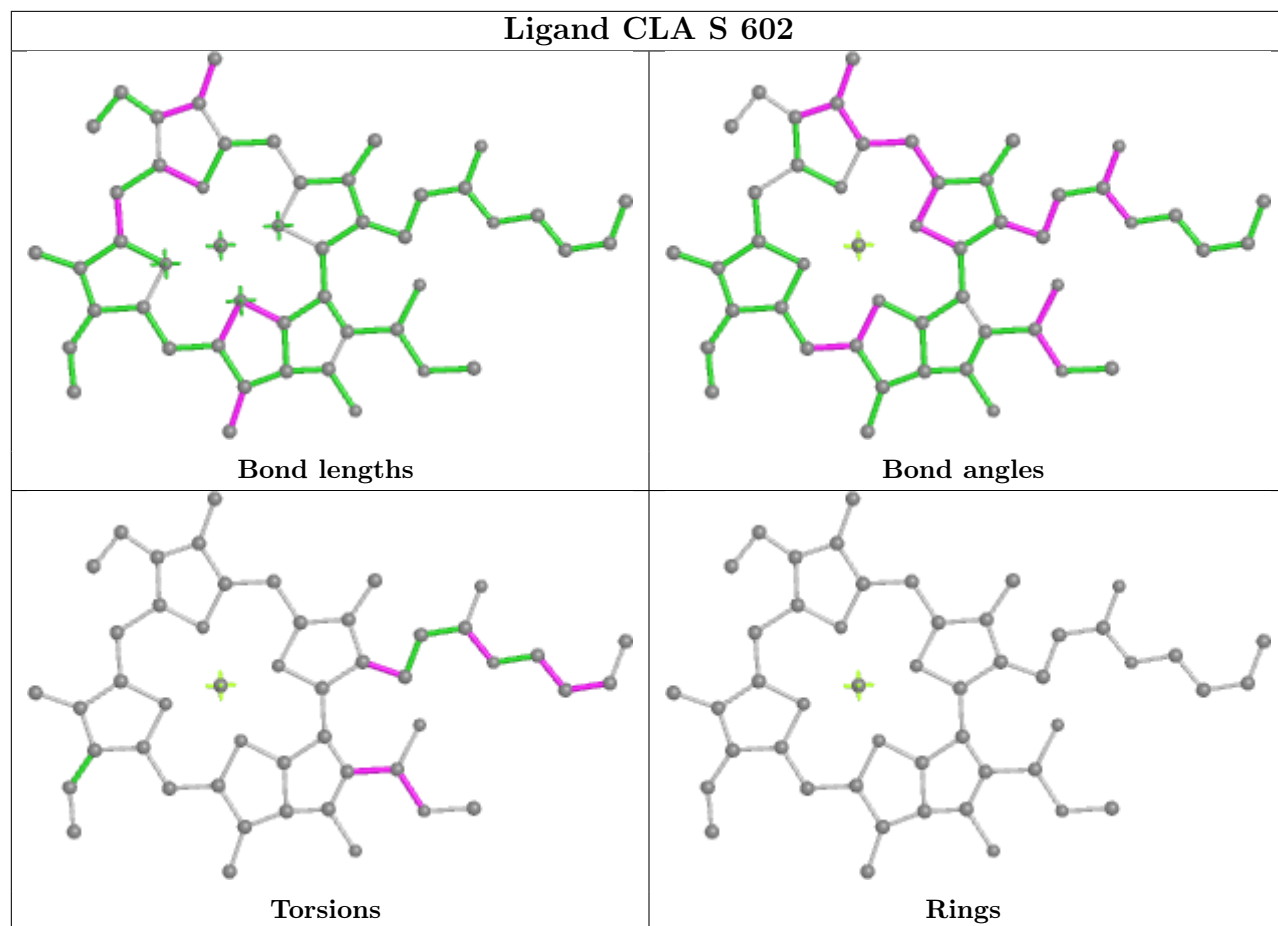
Ligand CLA s 613

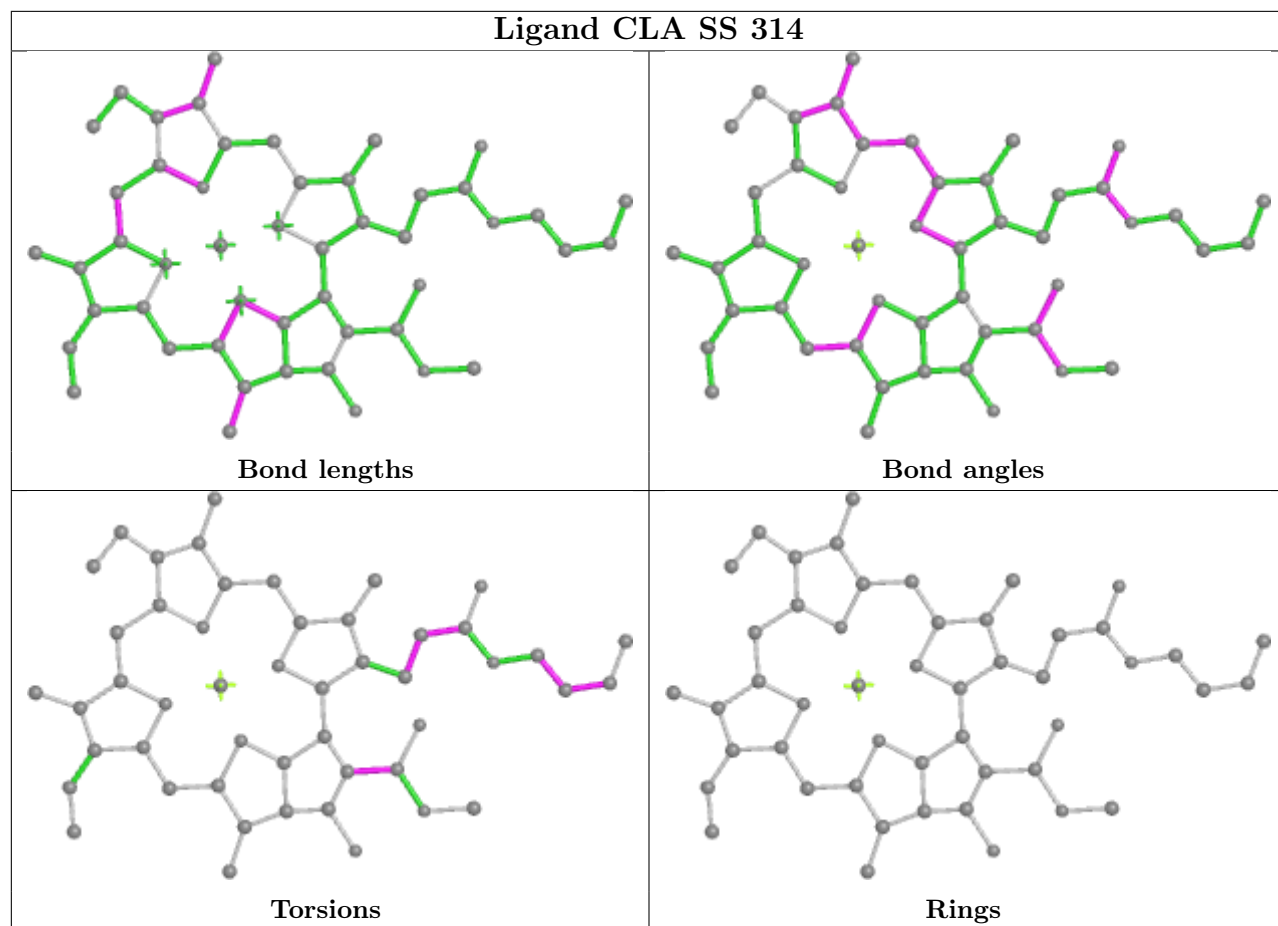


Ligand LMG F 101

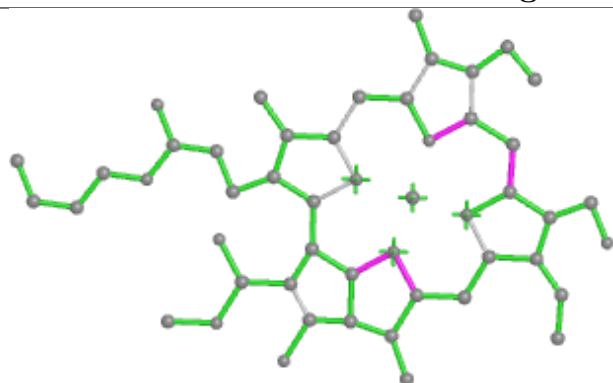




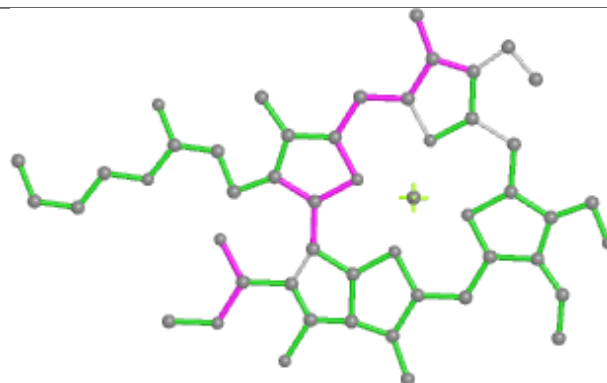




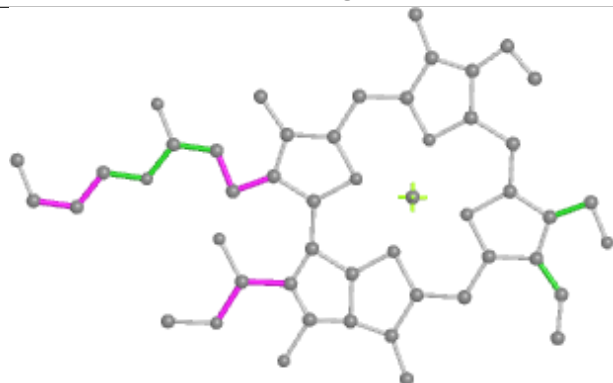
Ligand CHL s 606



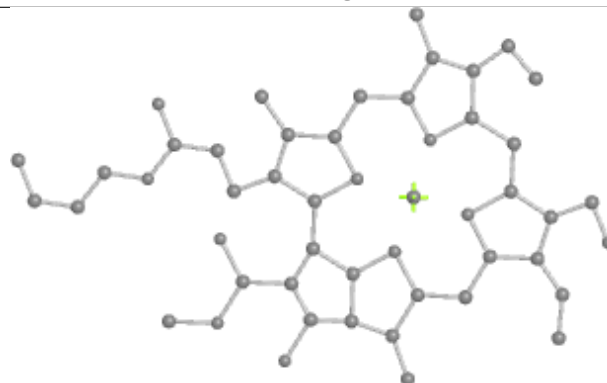
Bond lengths



Bond angles

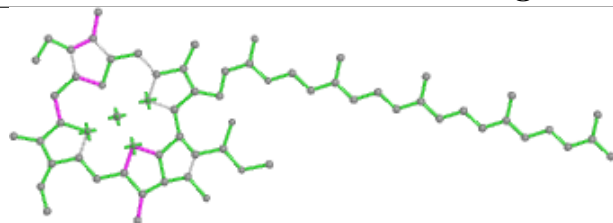


Torsions

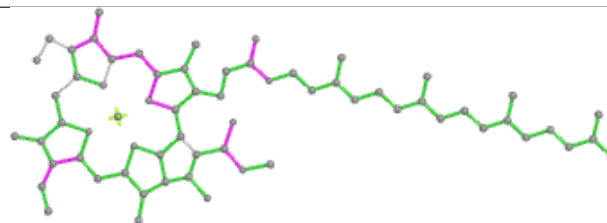


Rings

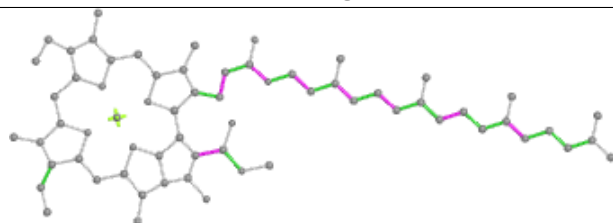
Ligand CLA C 507



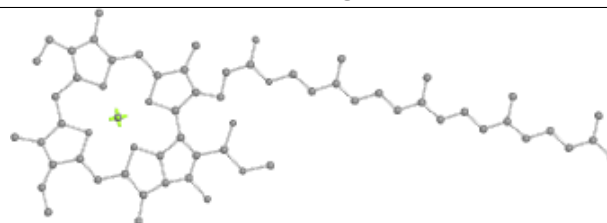
Bond lengths



Bond angles

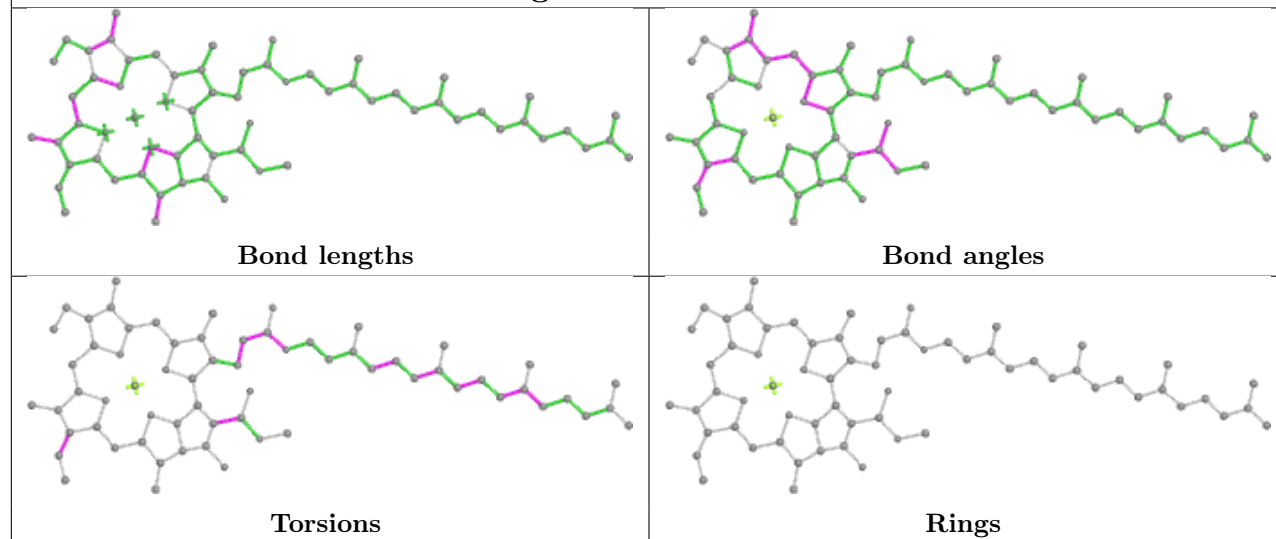


Torsions

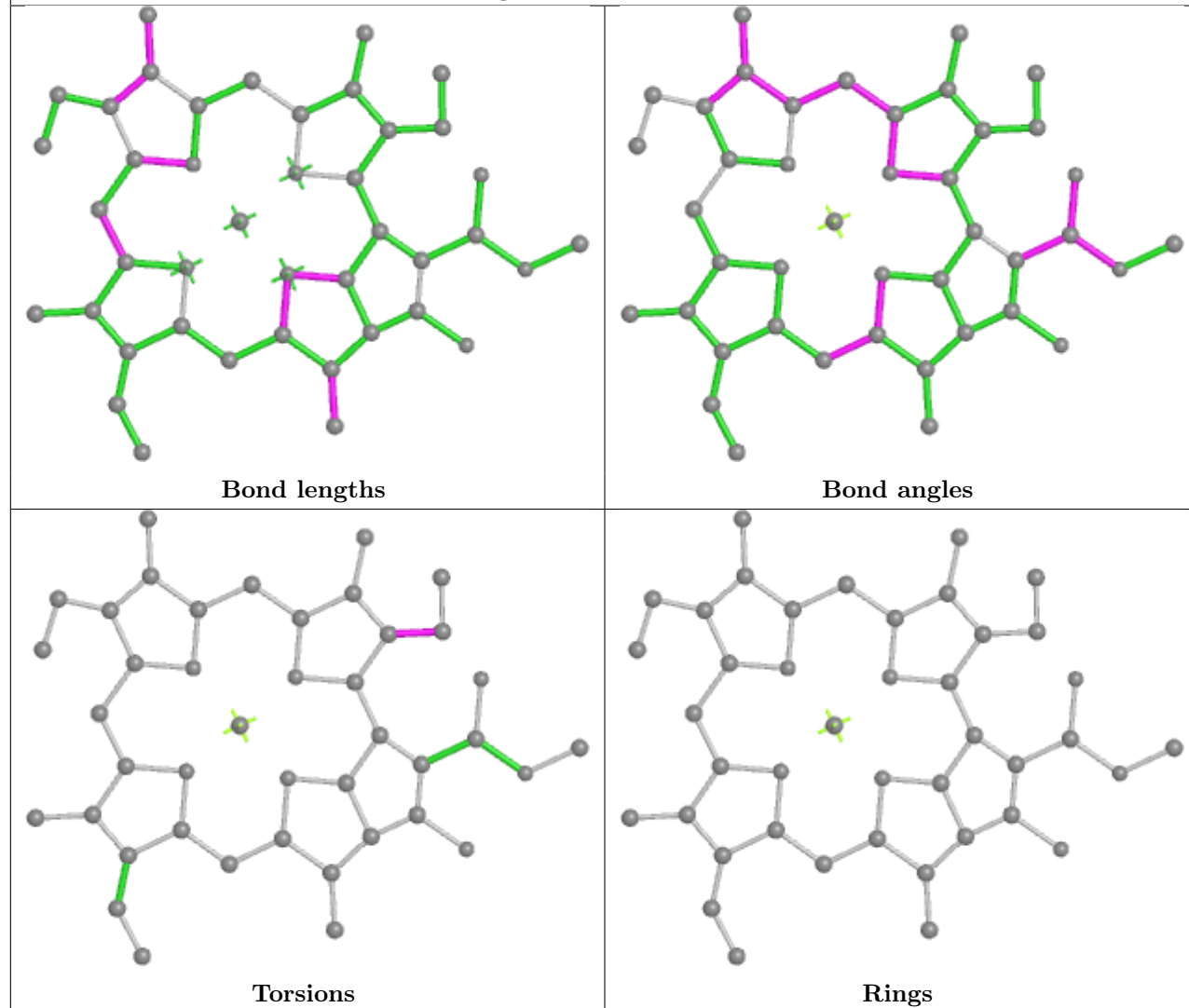


Rings

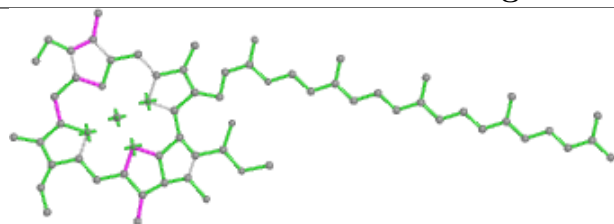
Ligand CLA D 404



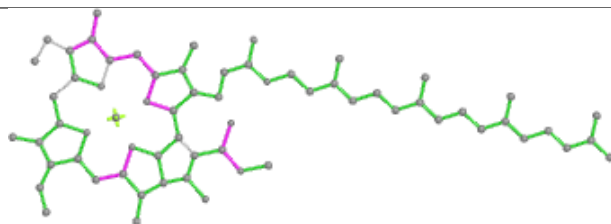
Ligand CLA R 612



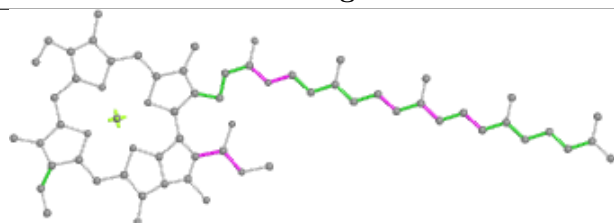
Ligand CLA BB 606



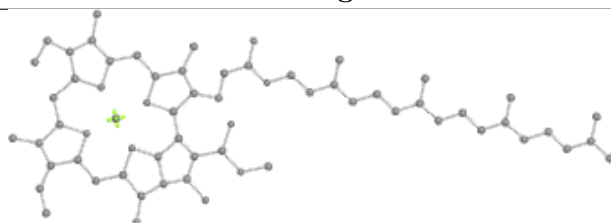
Bond lengths



Bond angles

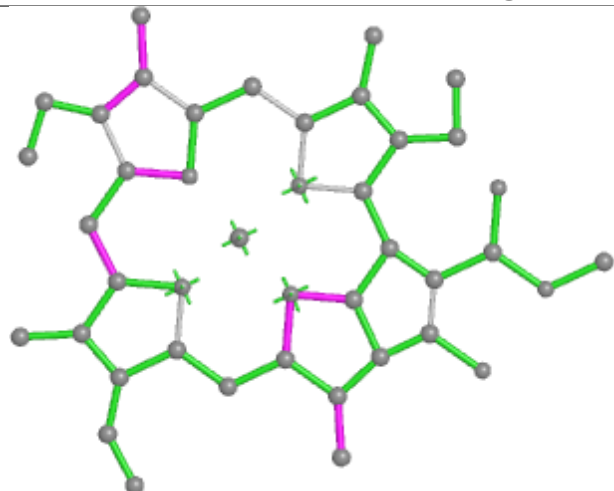


Torsions

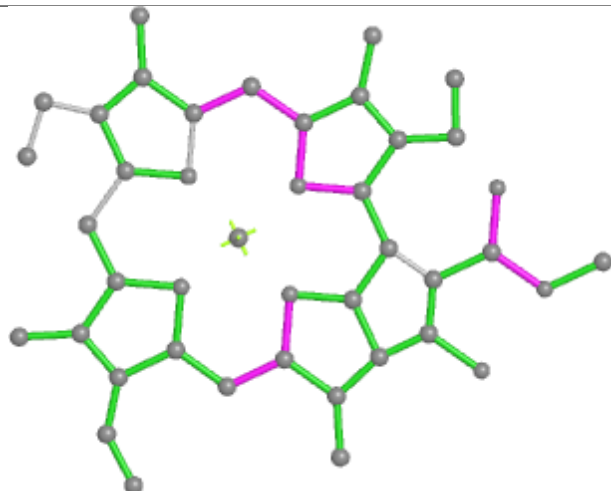


Rings

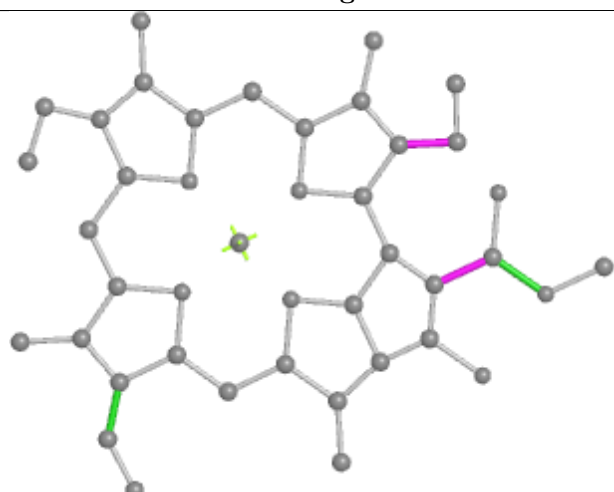
Ligand CLA RR 312



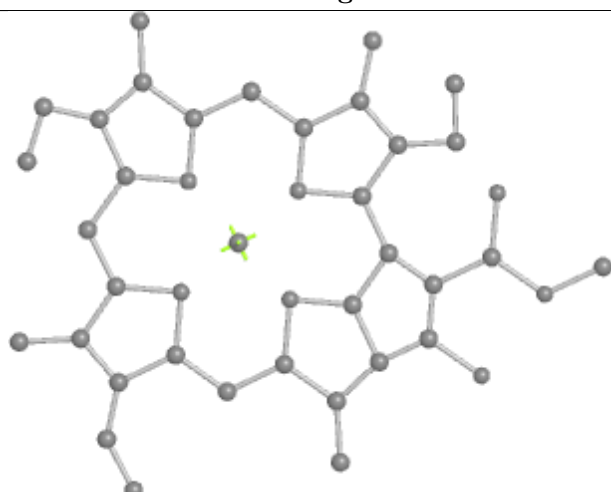
Bond lengths



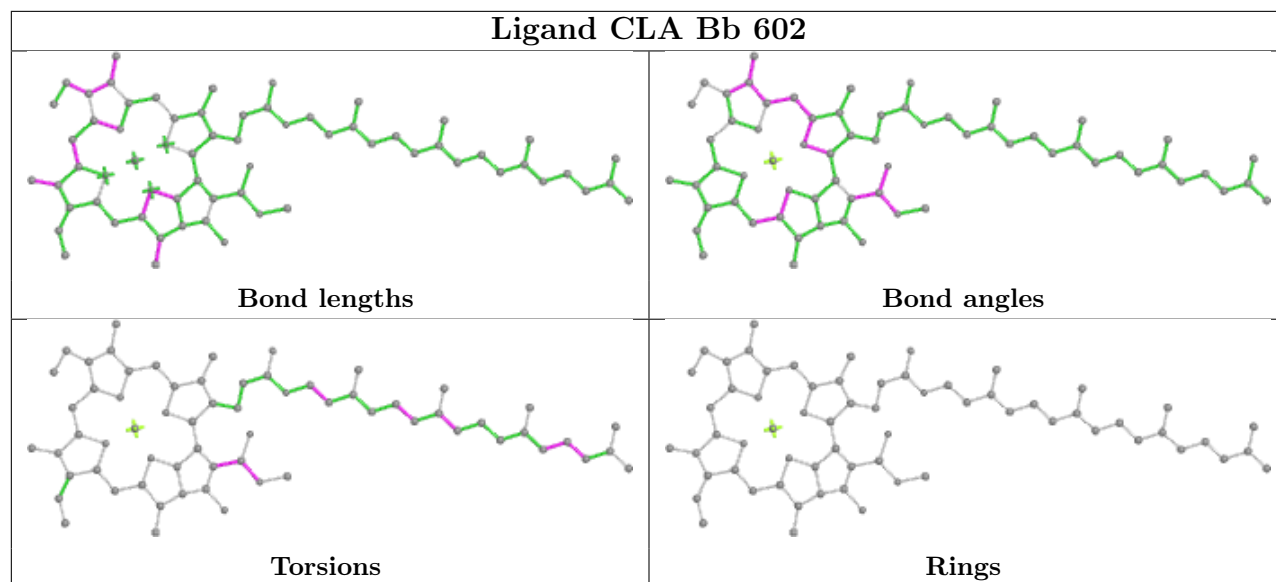
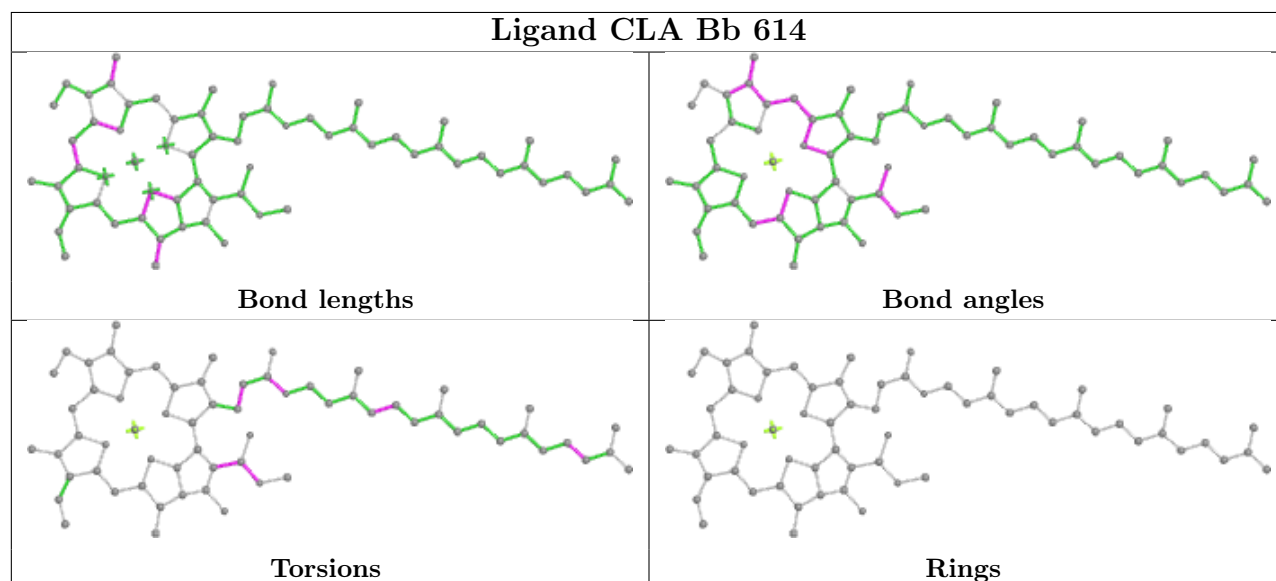
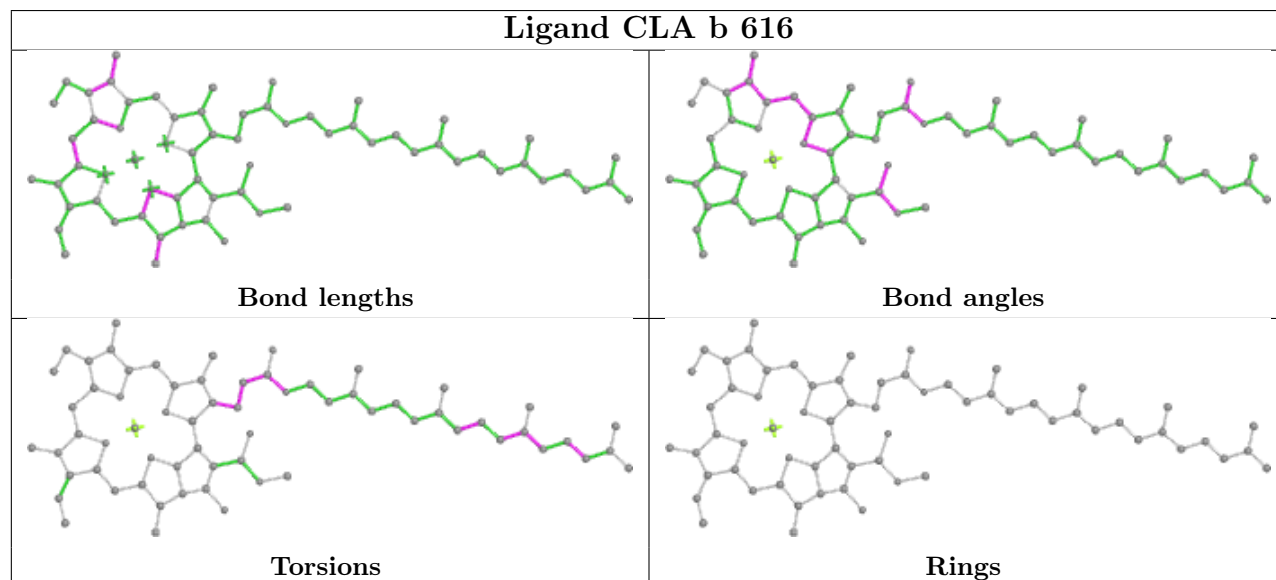
Bond angles



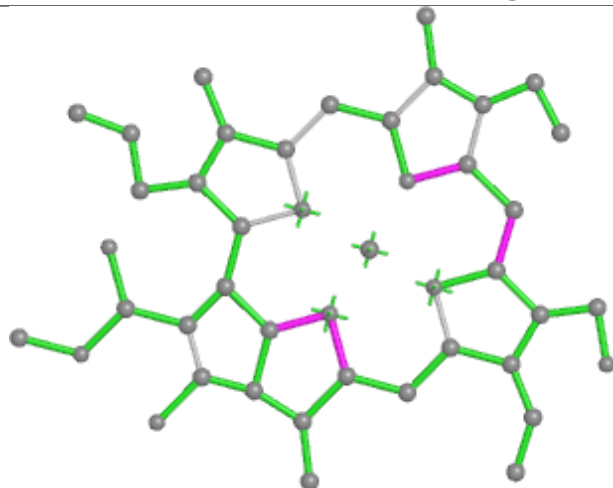
Torsions



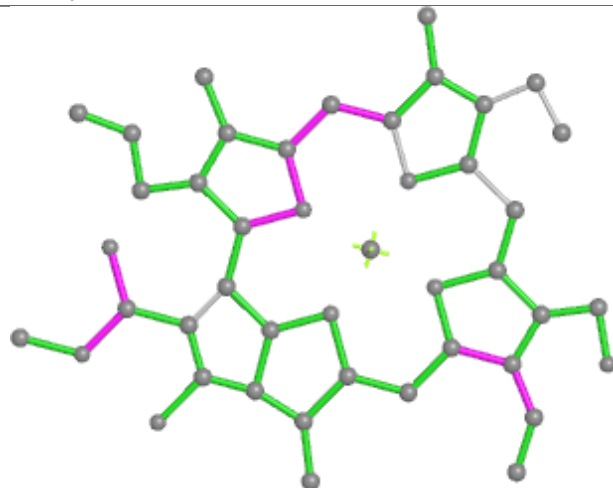
Rings

Ligand CLA Bb 602**Ligand CLA Bb 614****Ligand CLA b 616**

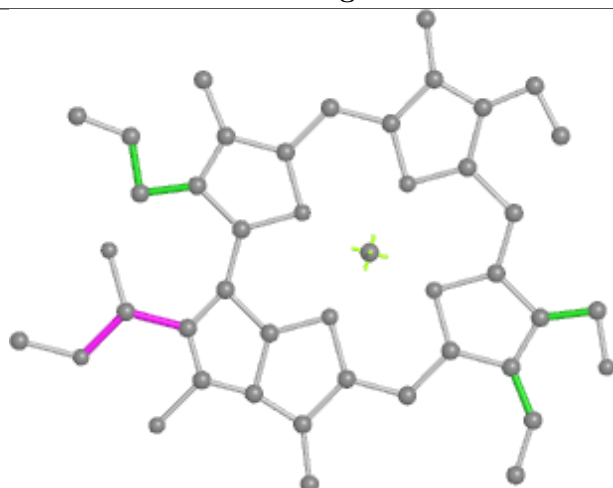
Ligand CHL Yy 606



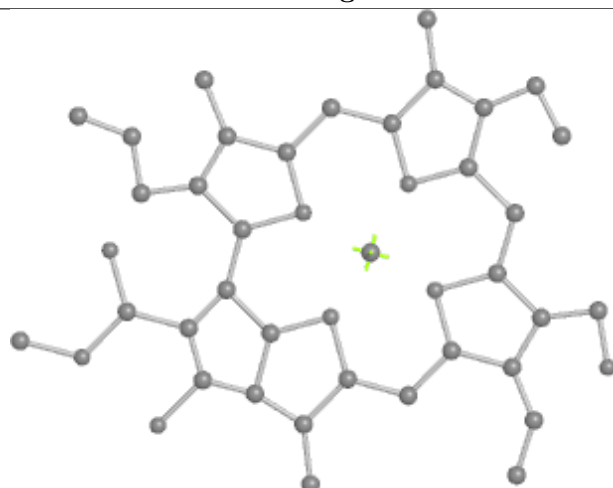
Bond lengths



Bond angles

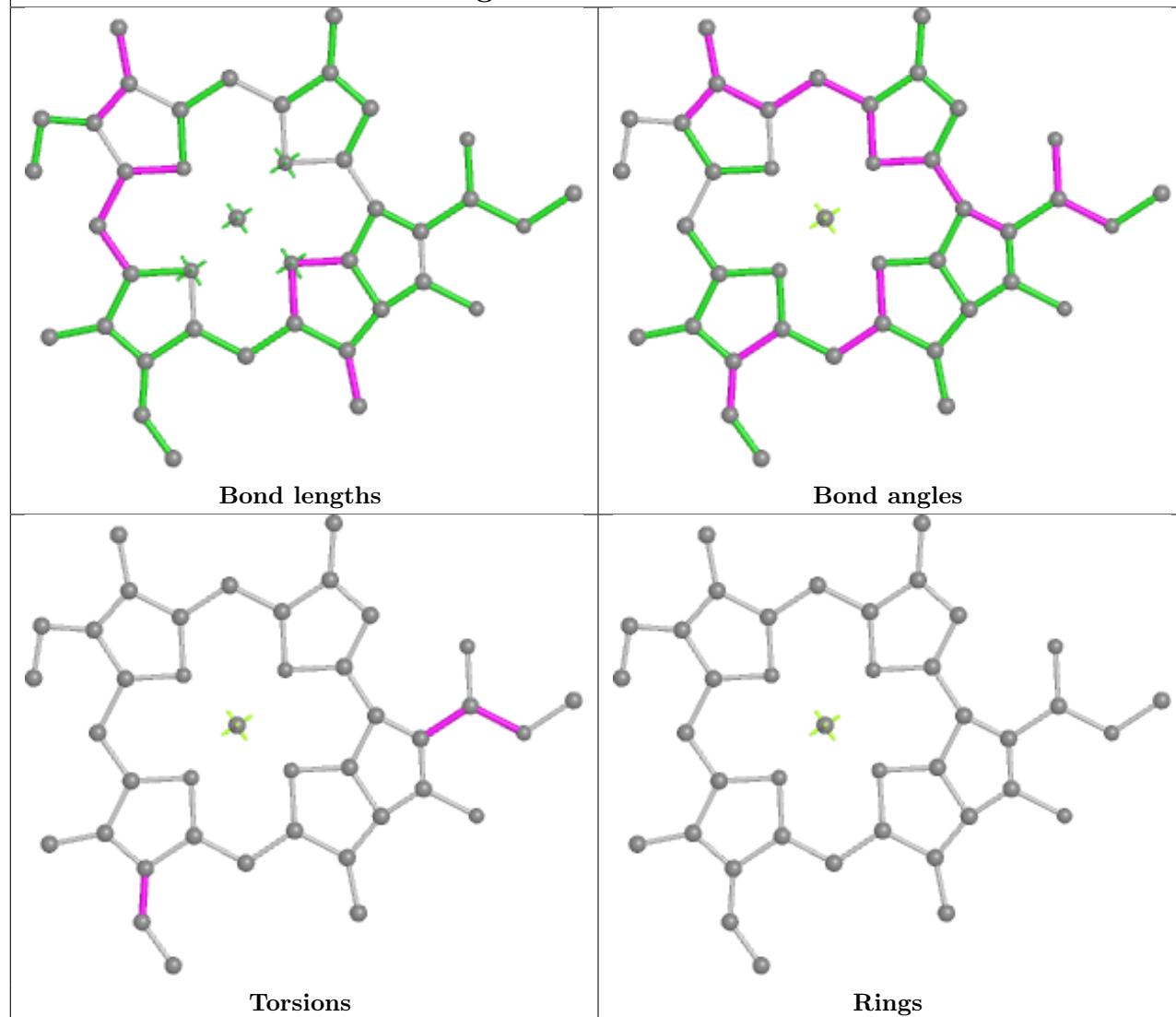


Torsions

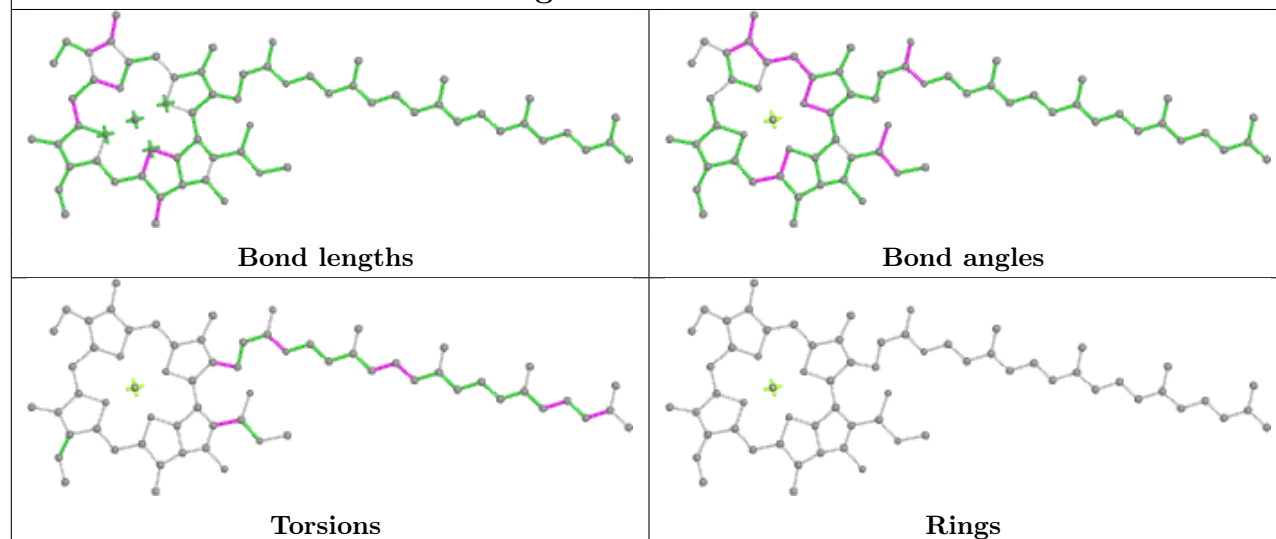


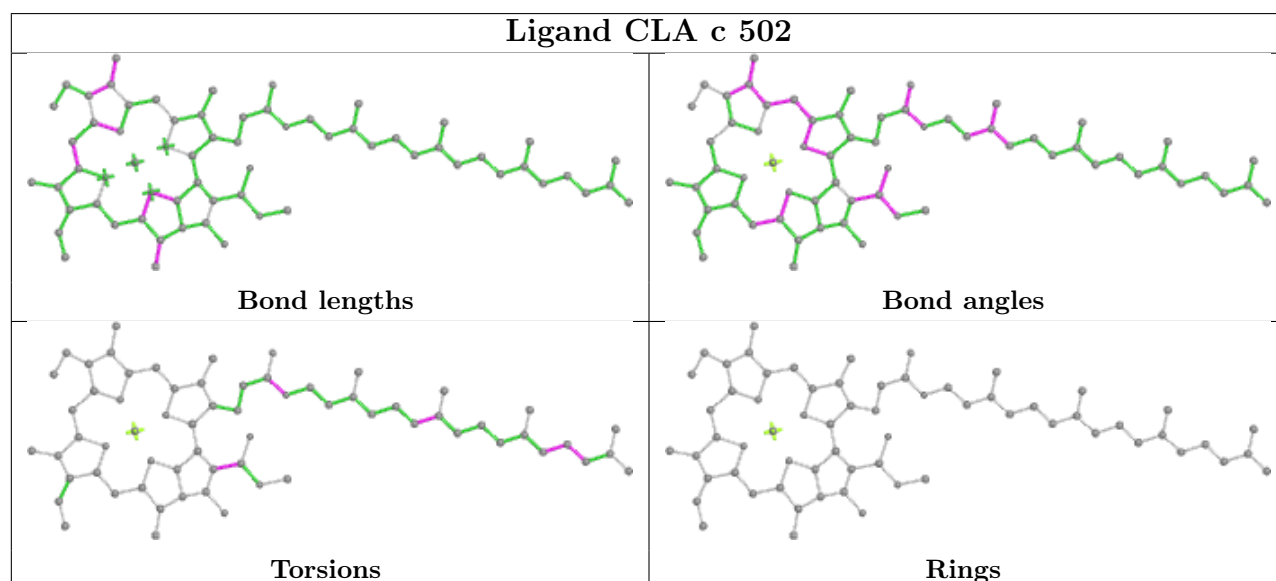
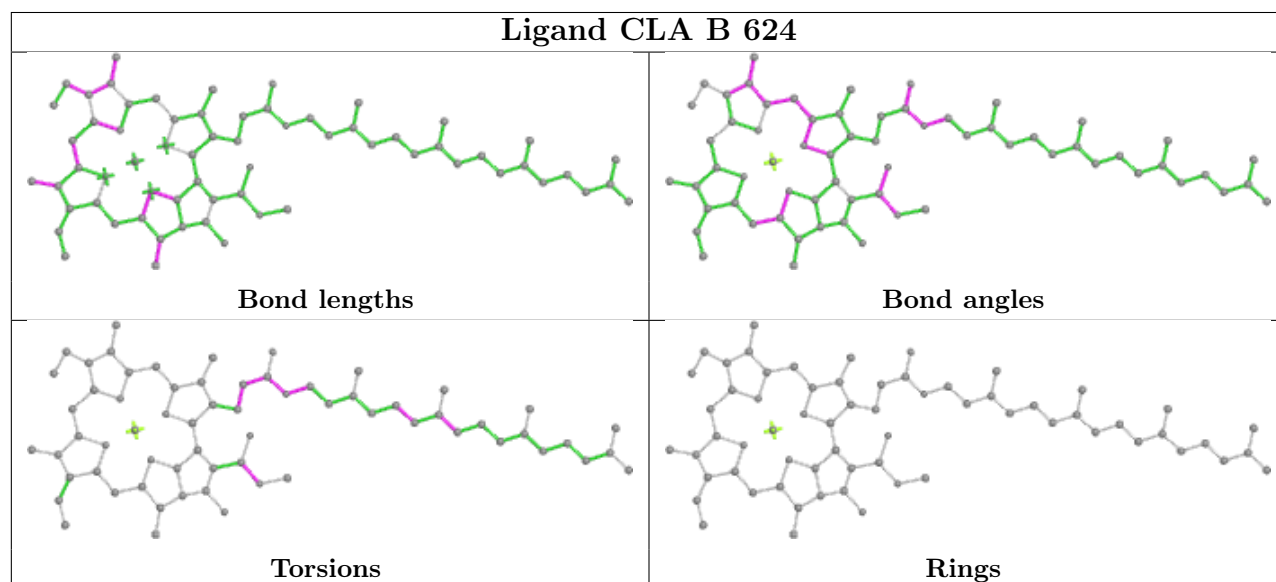
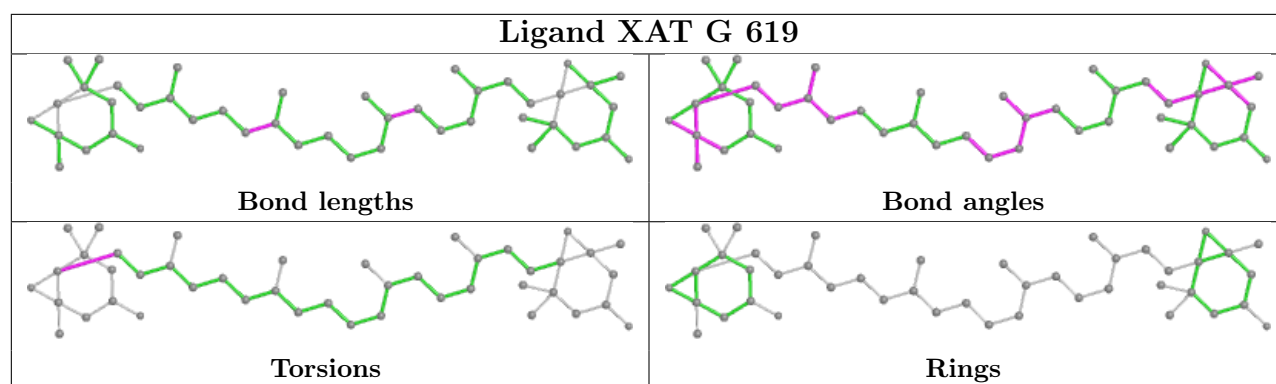
Rings

Ligand CLA GG 613

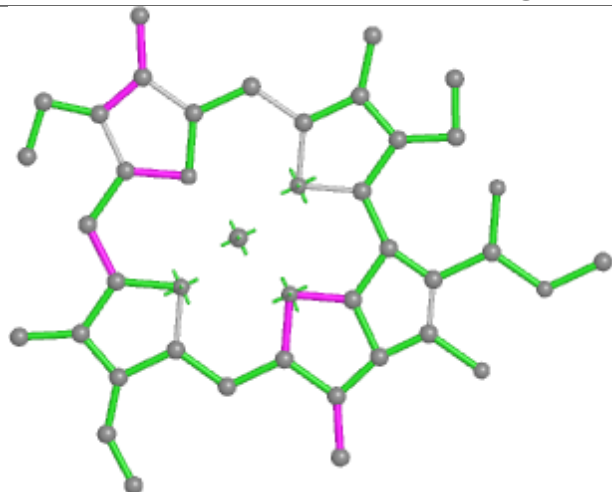


Ligand CLA d 402

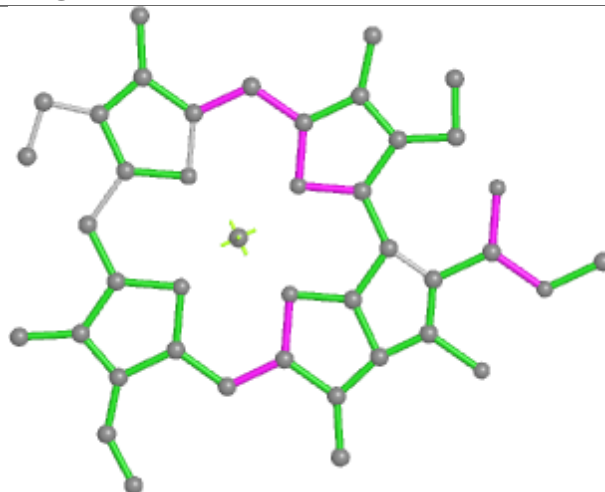




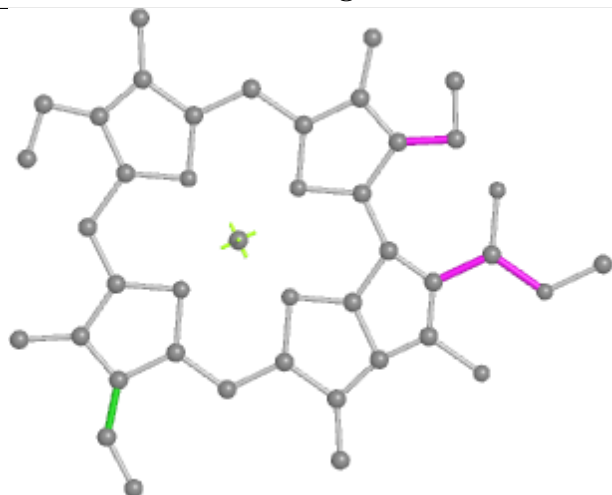
Ligand CLA g 604



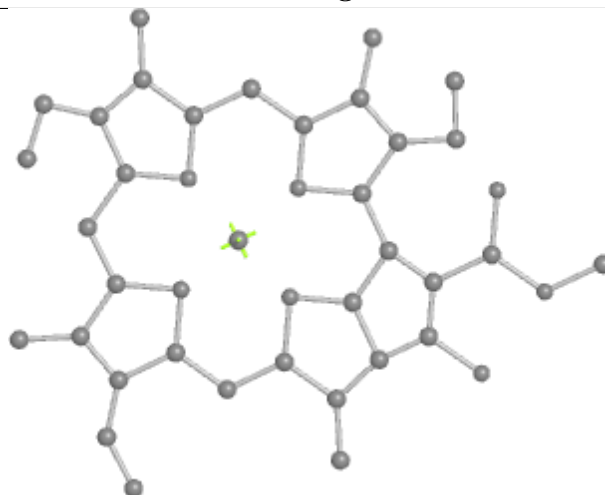
Bond lengths



Bond angles

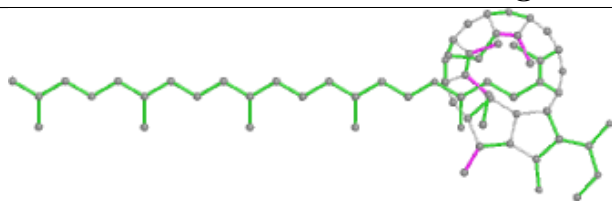


Torsions

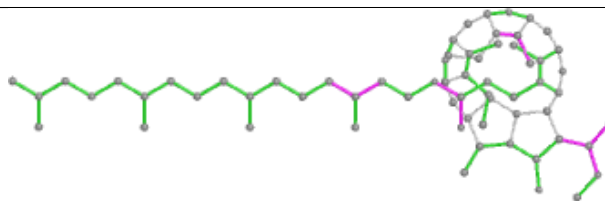


Rings

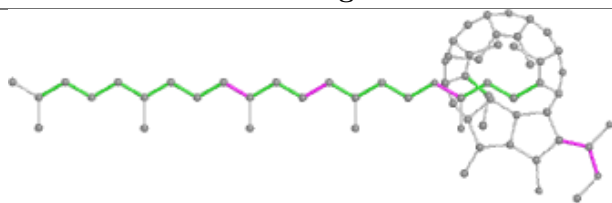
Ligand PHO a 408



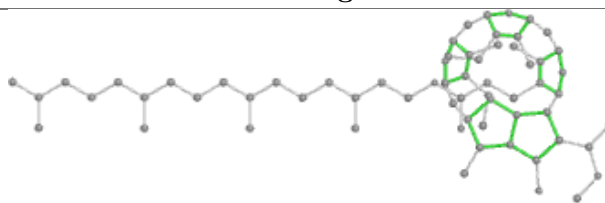
Bond lengths



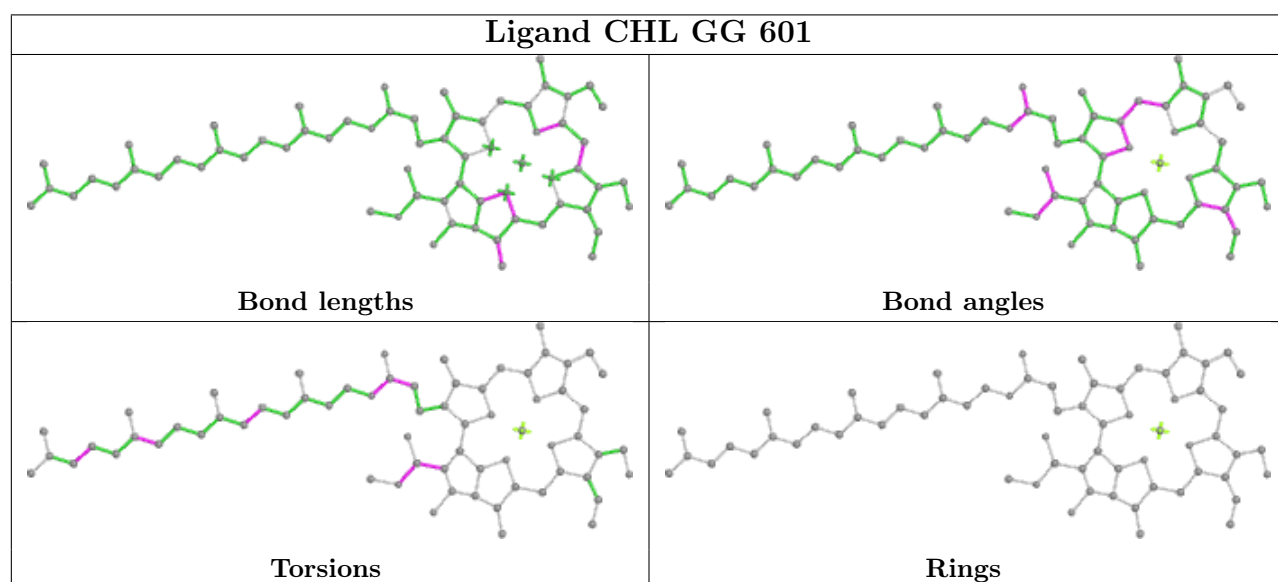
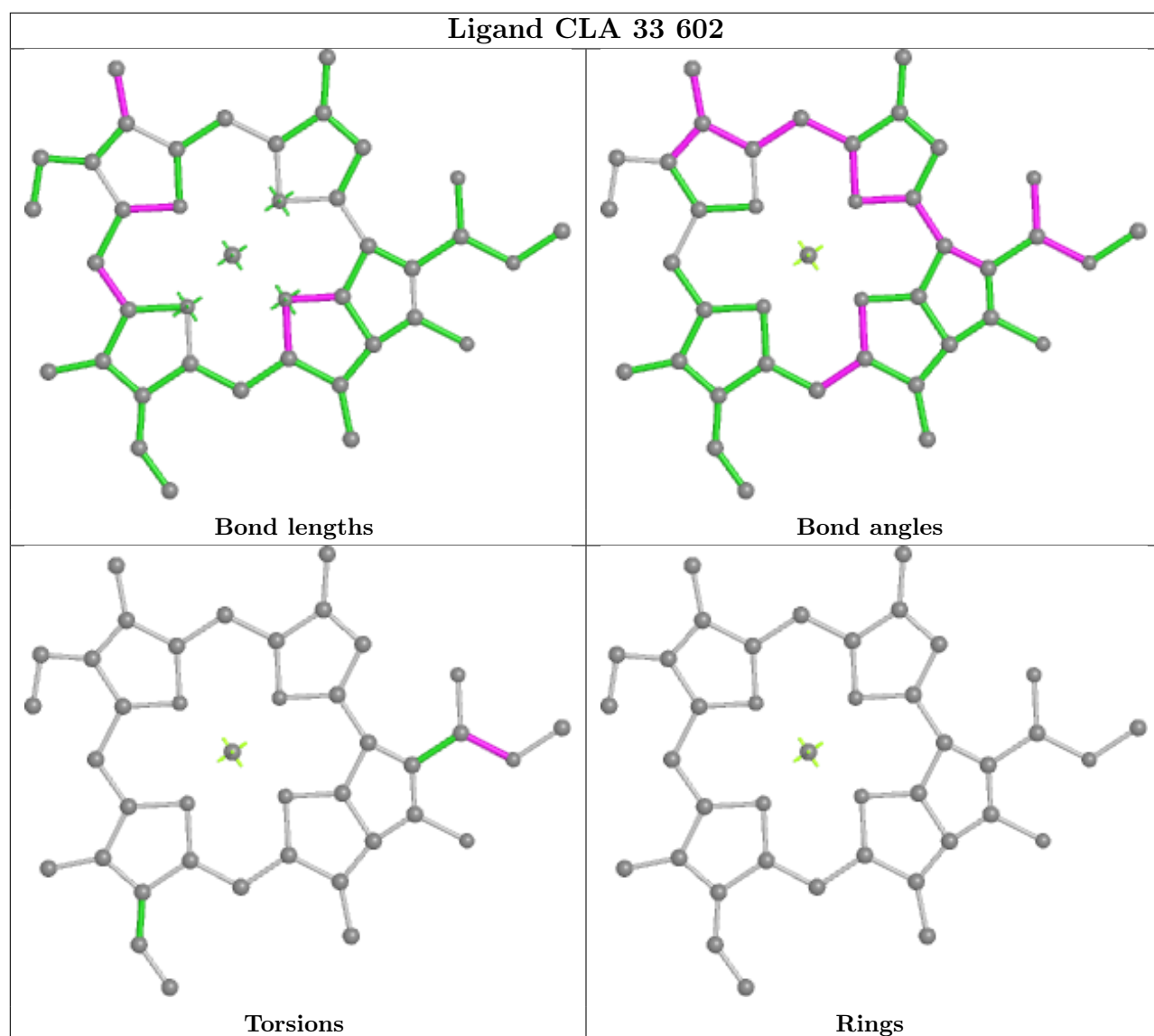
Bond angles



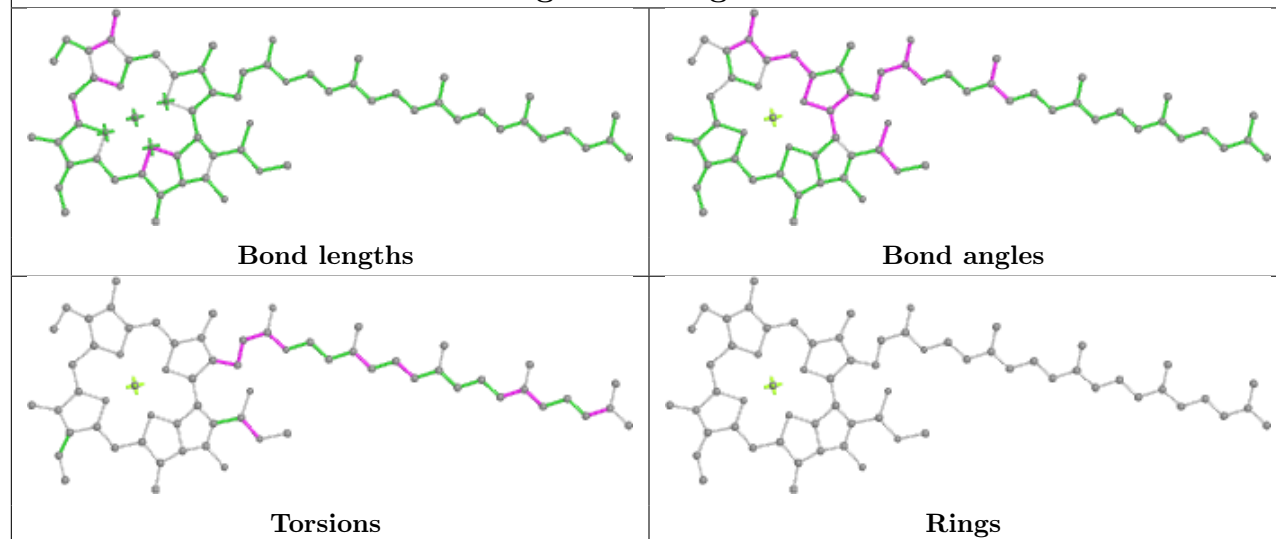
Torsions



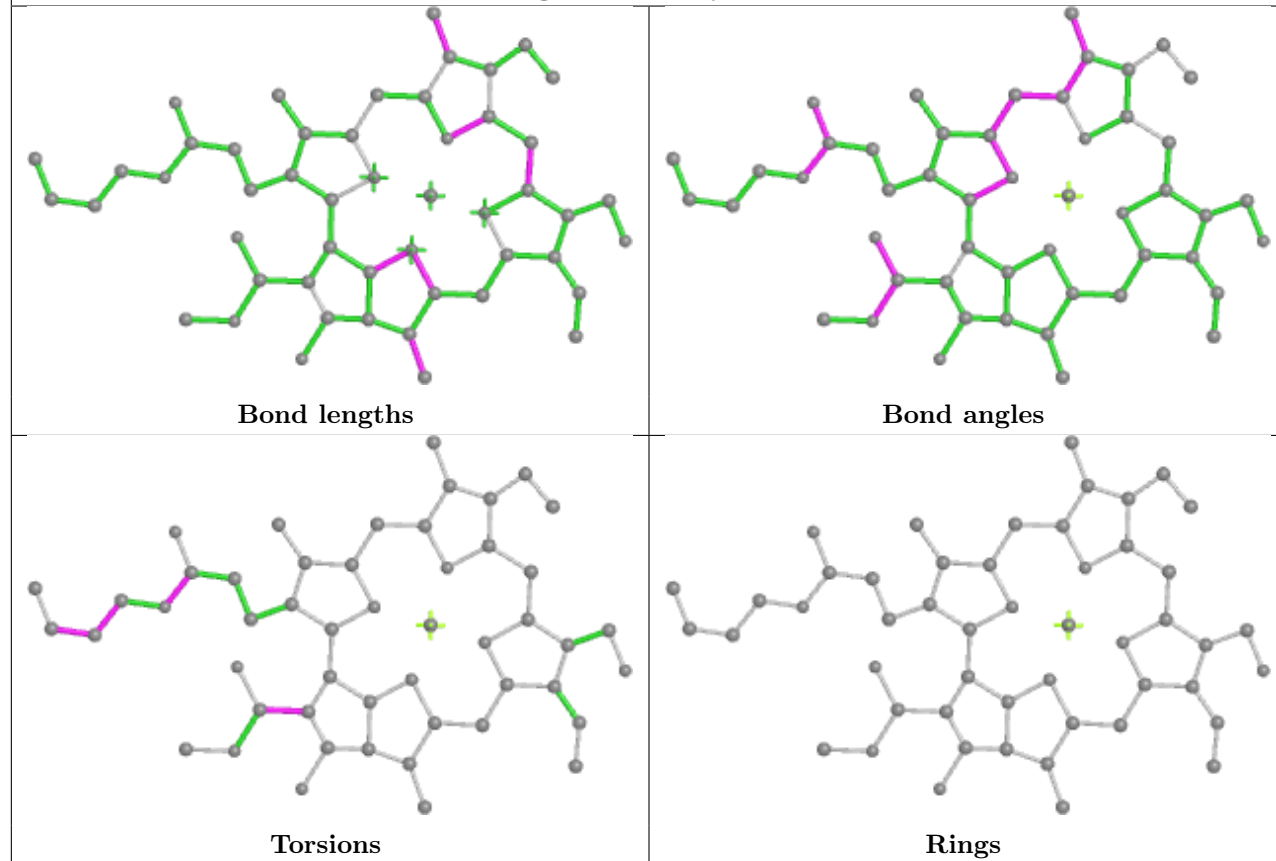
Rings

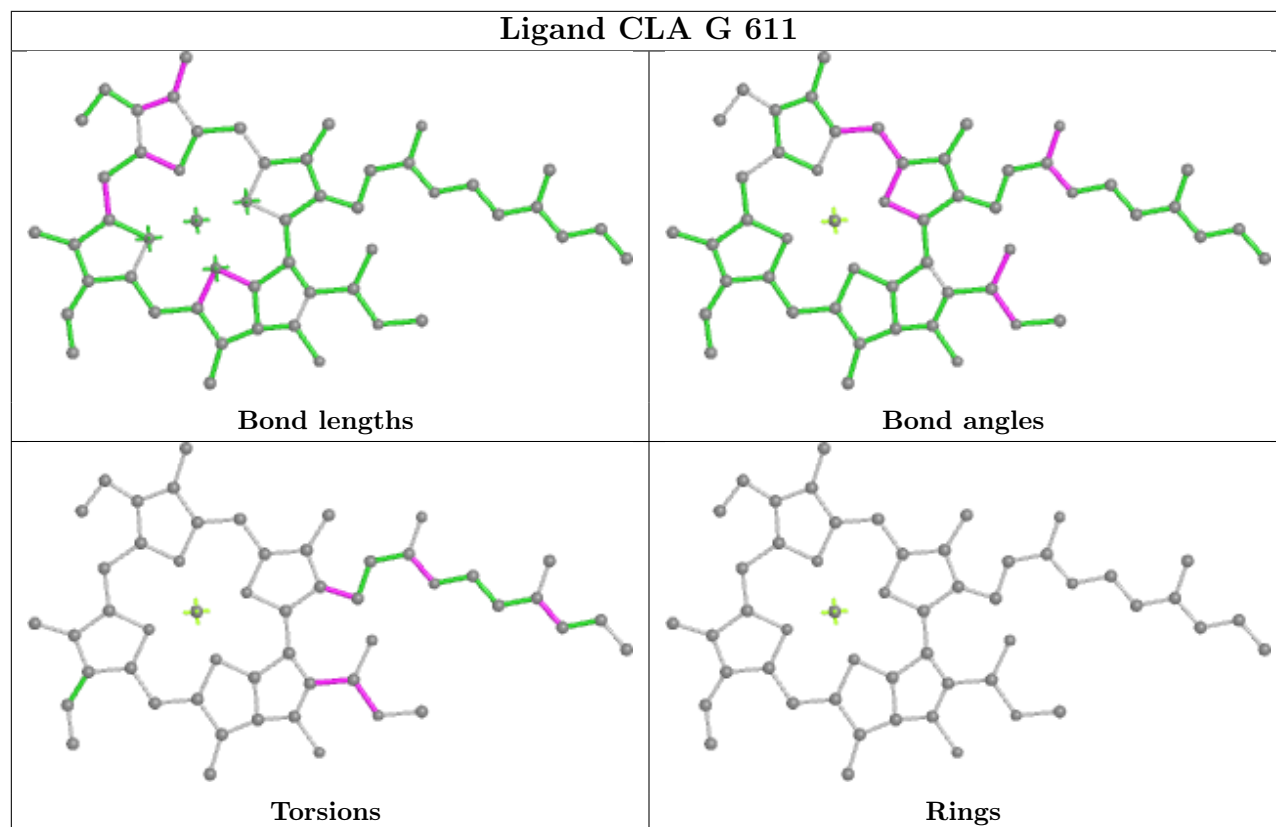


Ligand CLA g 611

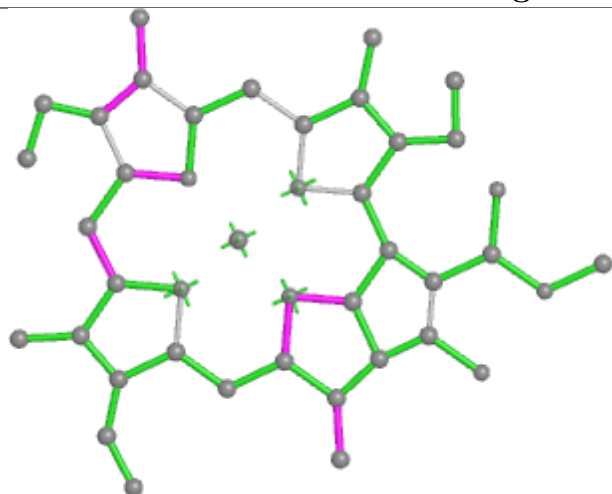


Ligand CHL y 310

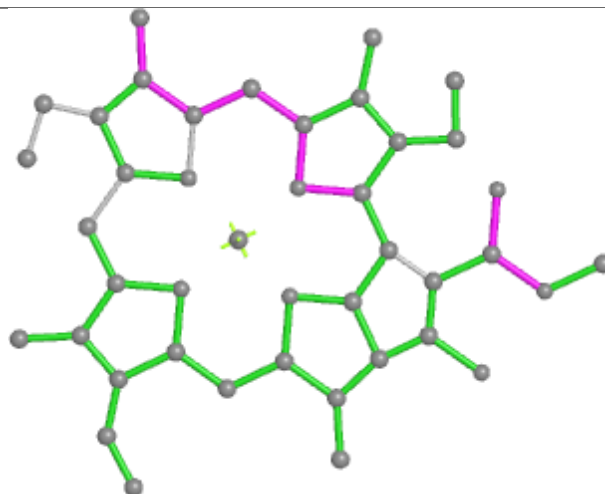




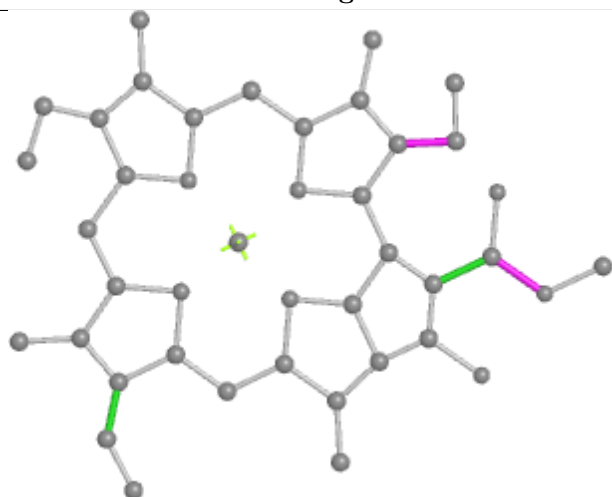
Ligand CLA Y 611



Bond lengths



Bond angles

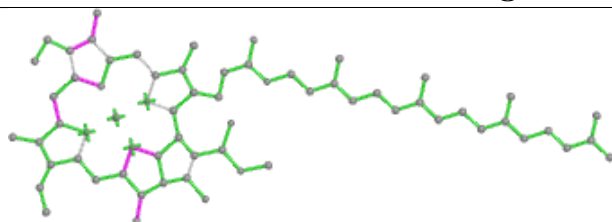


Torsions

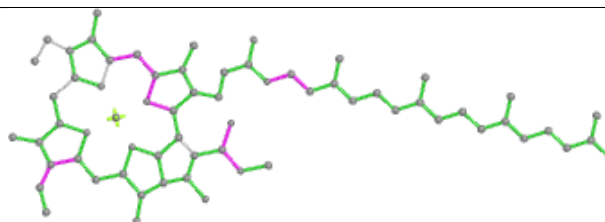


Rings

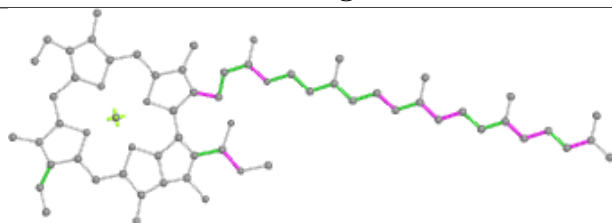
Ligand CLA AA 405



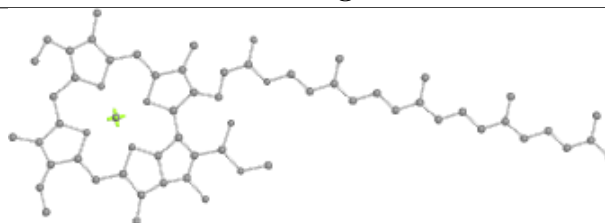
Bond lengths



Bond angles

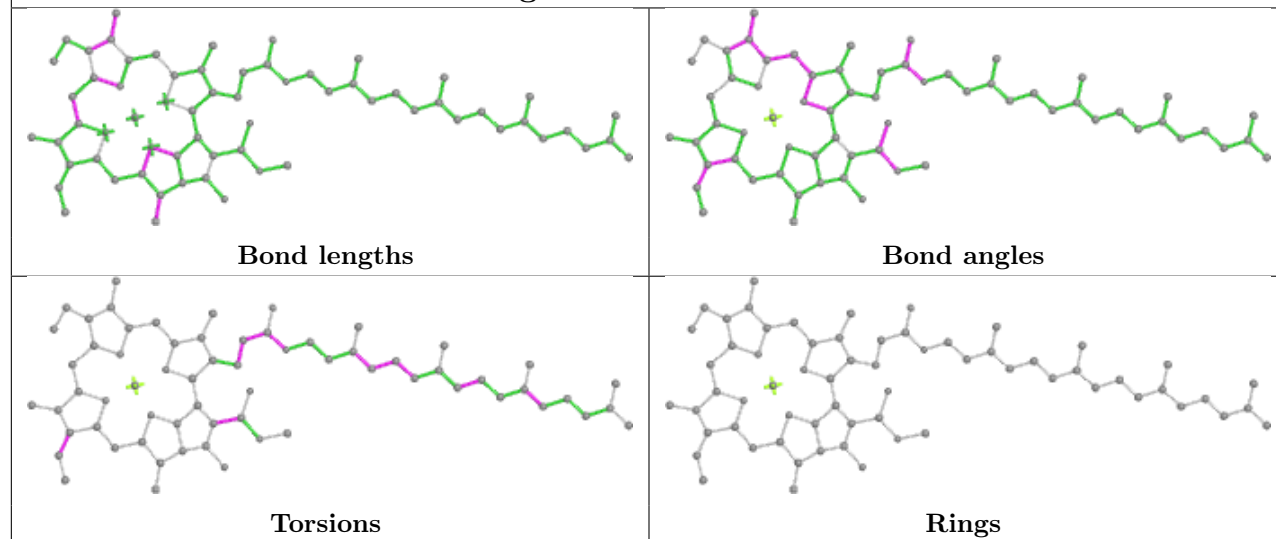


Torsions

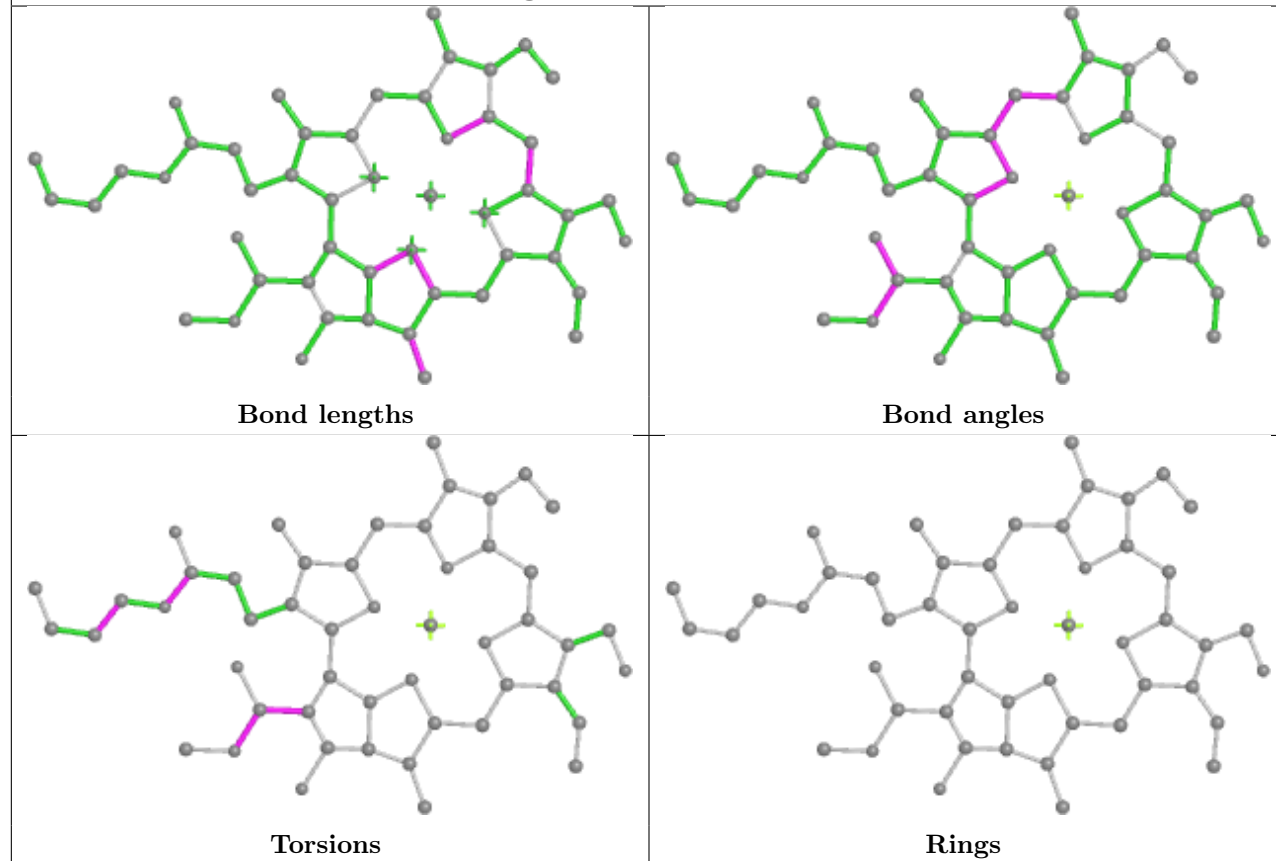


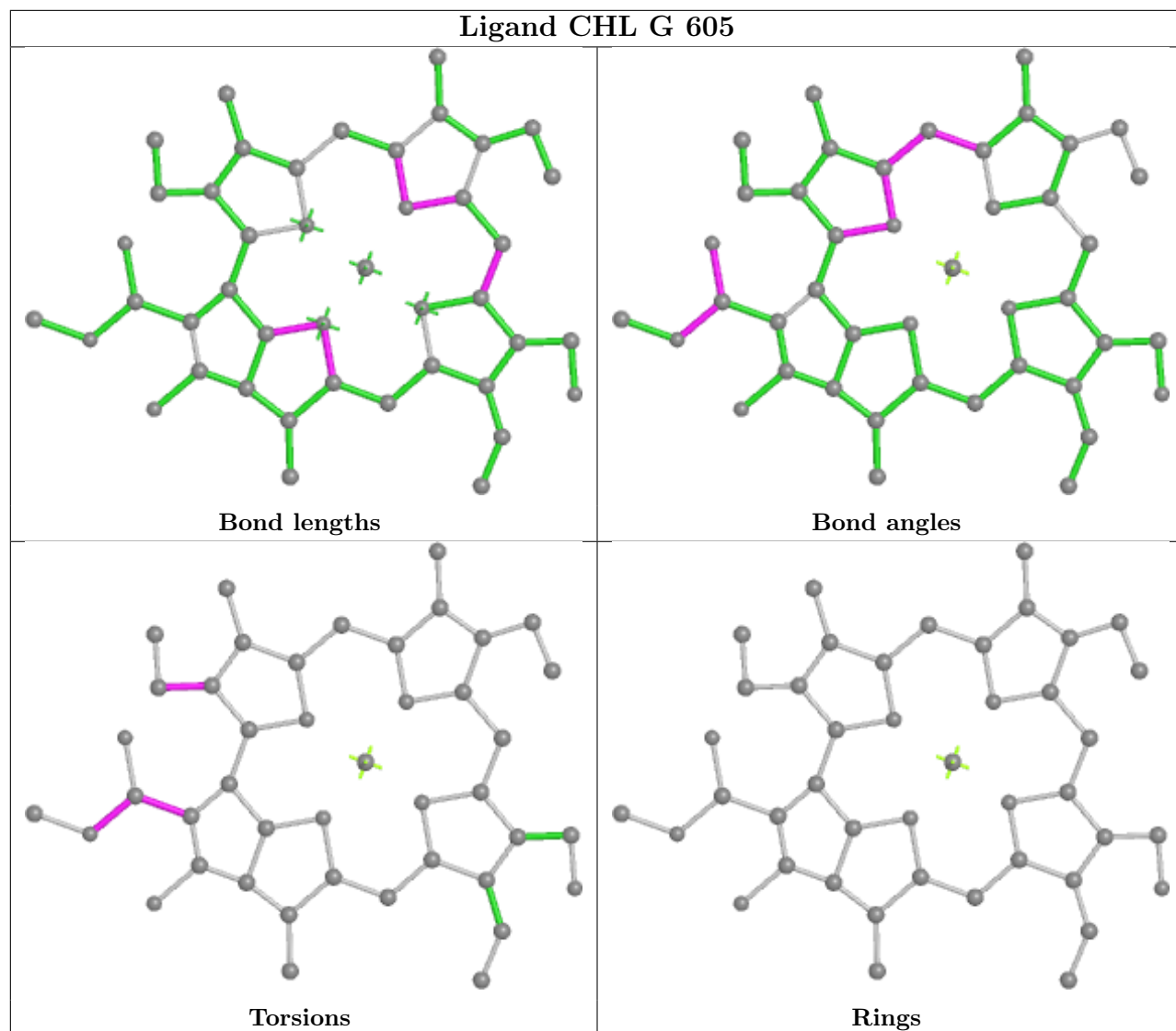
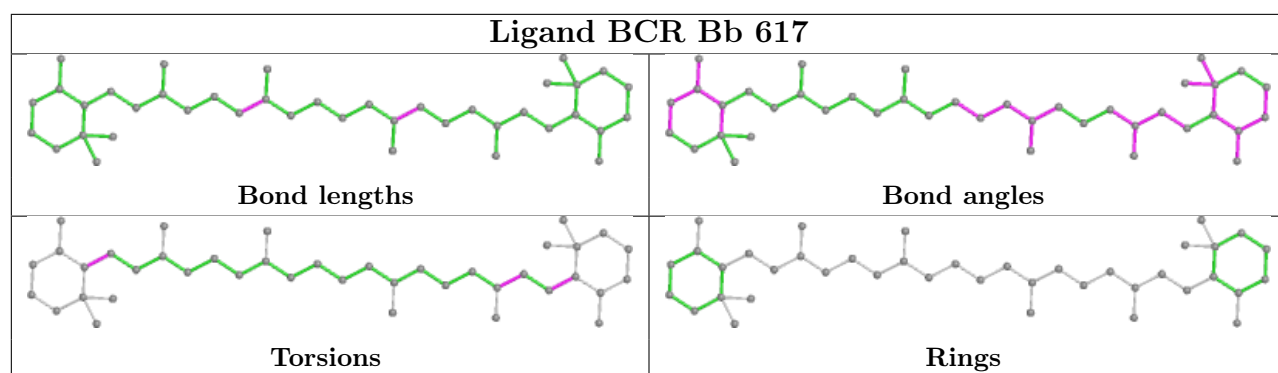
Rings

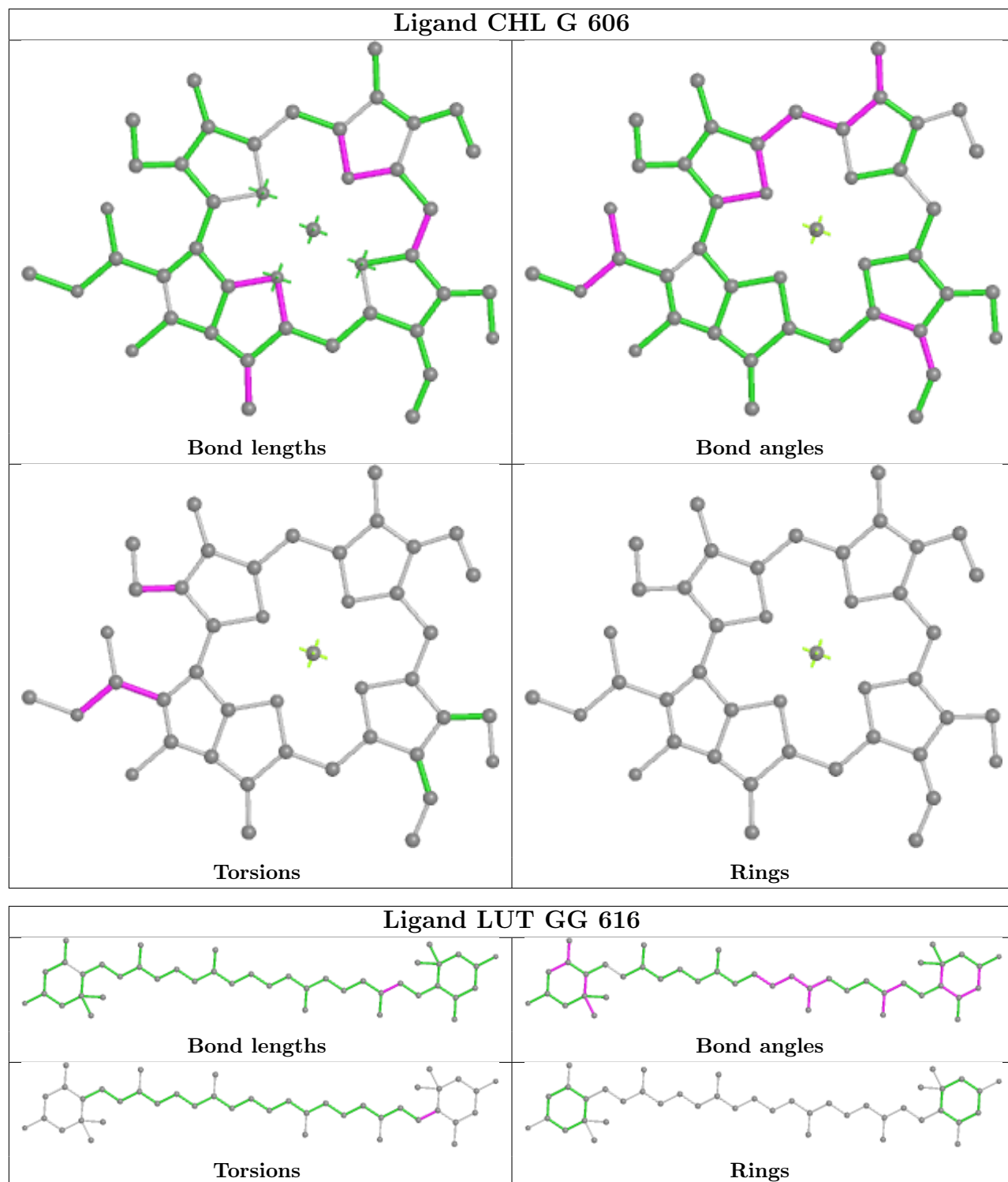
Ligand CLA CC 506

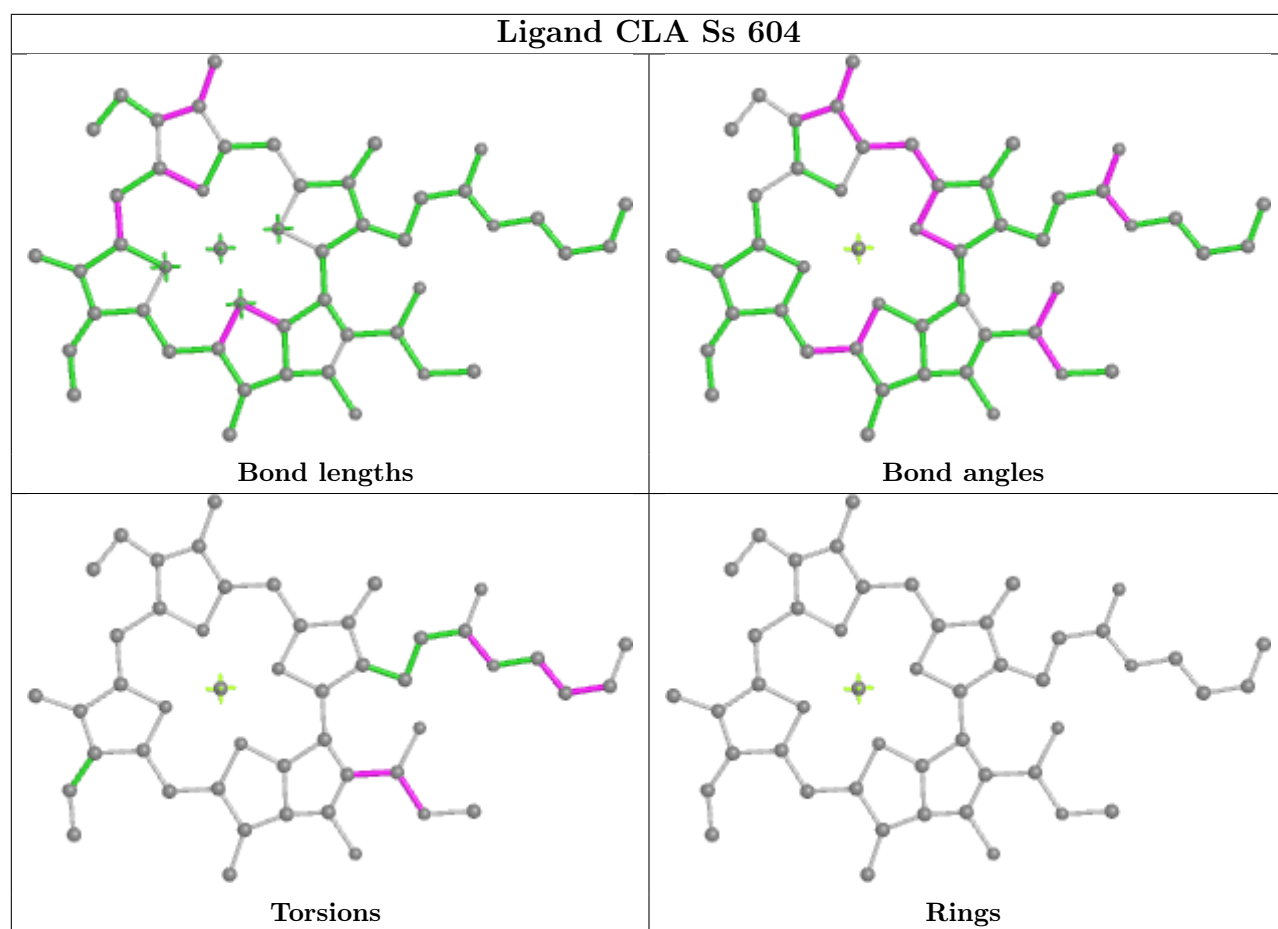


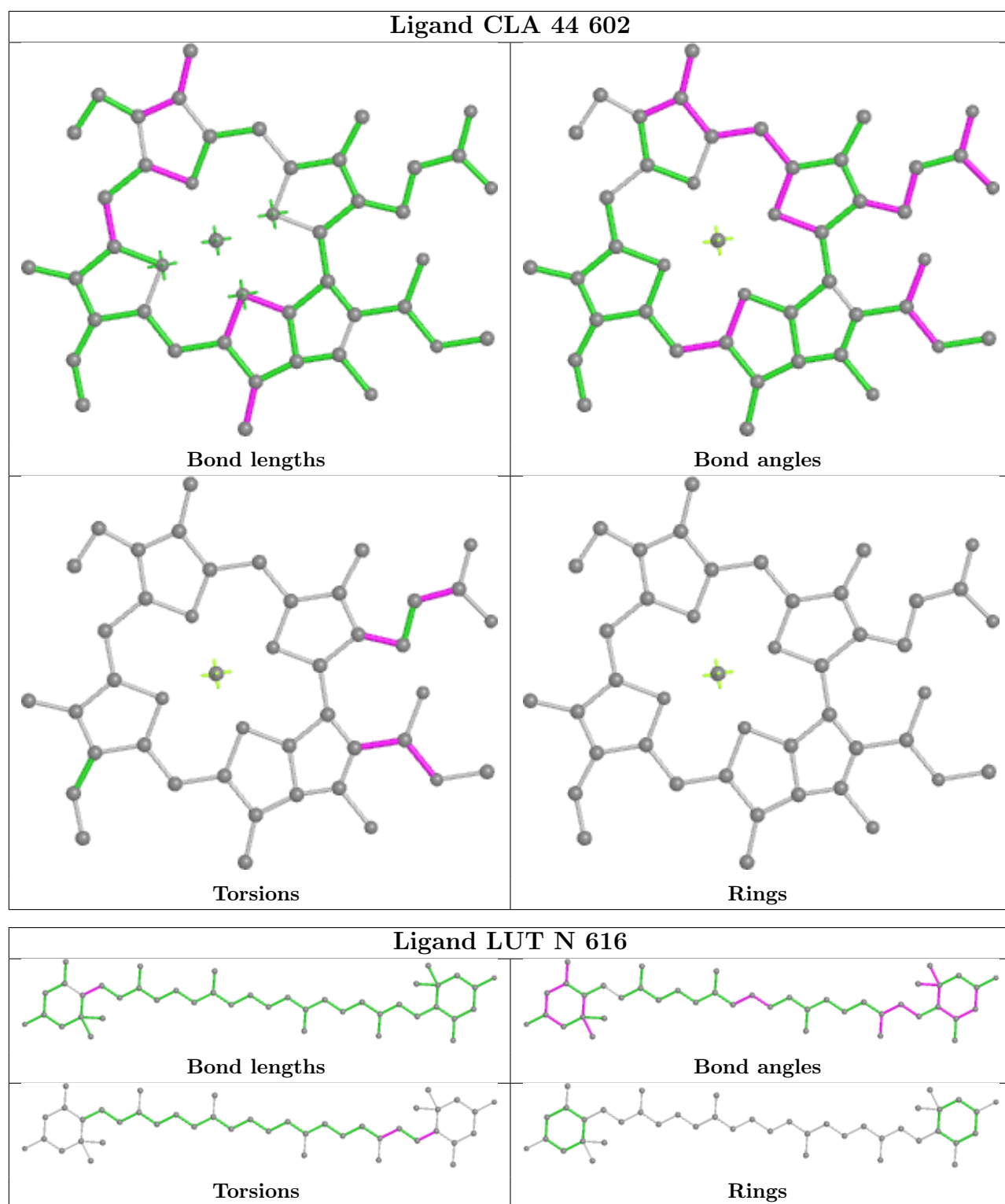
Ligand CHL Nn 311



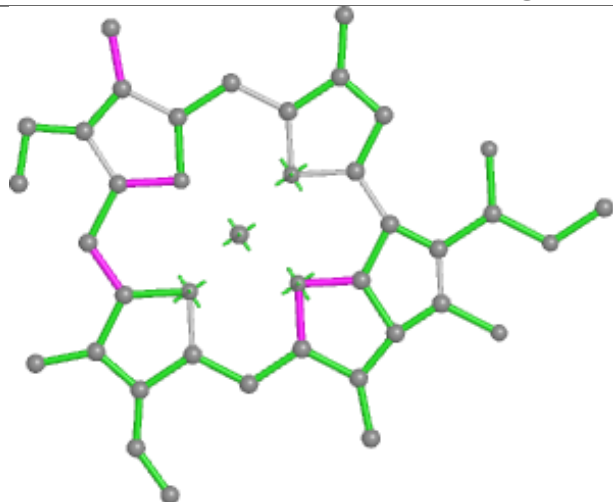




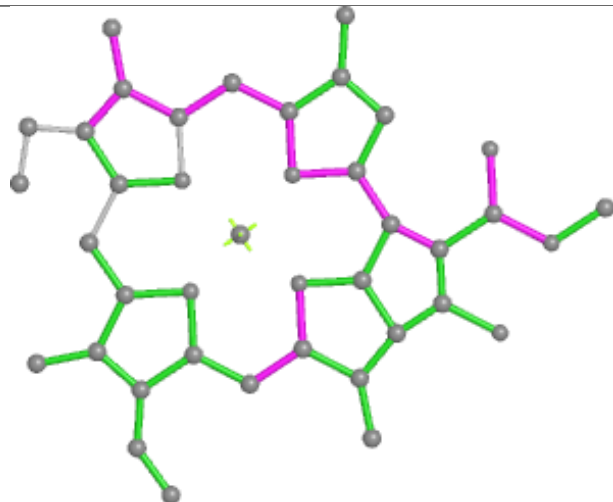




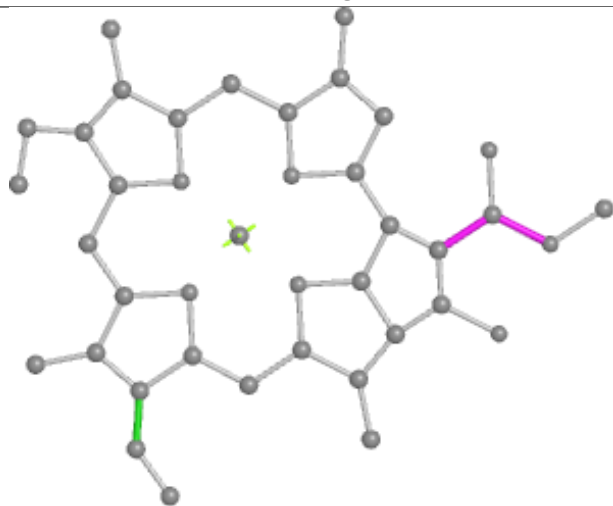
Ligand CLA 3 604



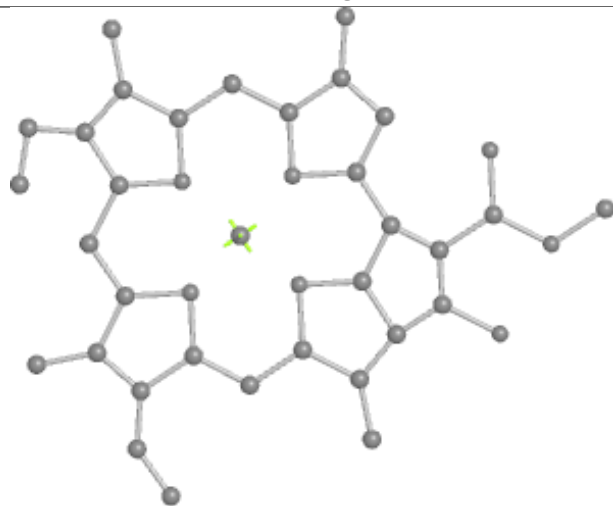
Bond lengths



Bond angles

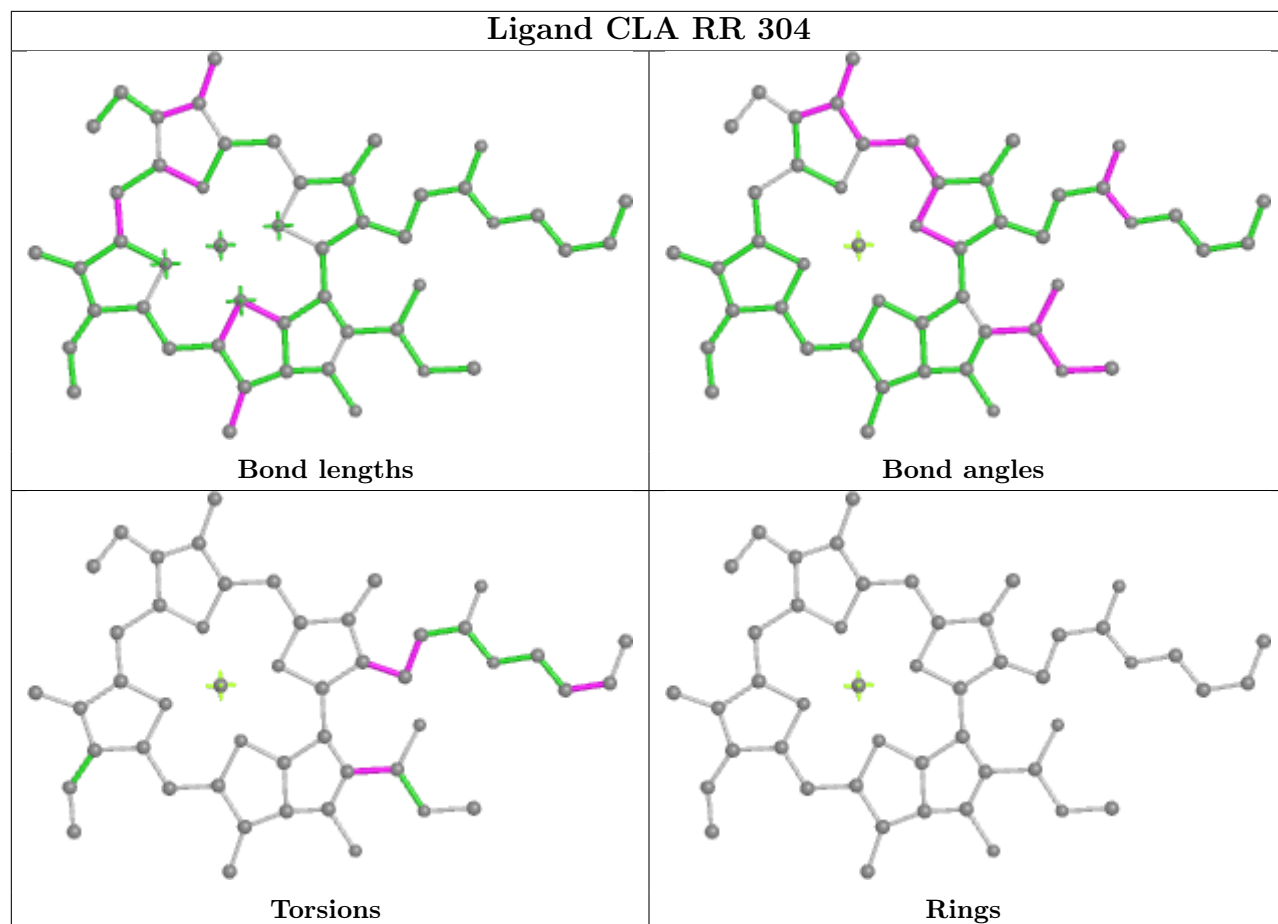


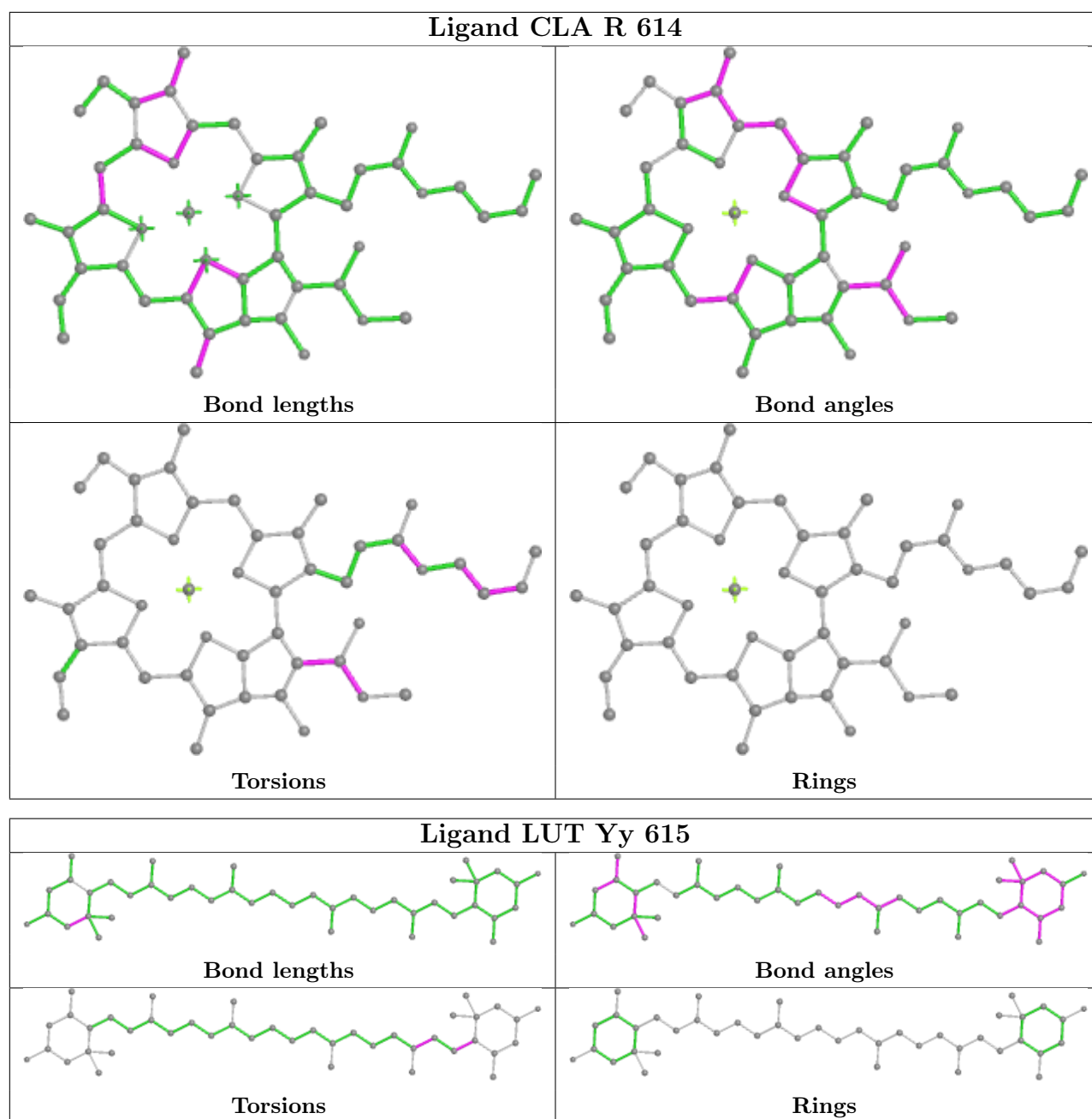
Torsions

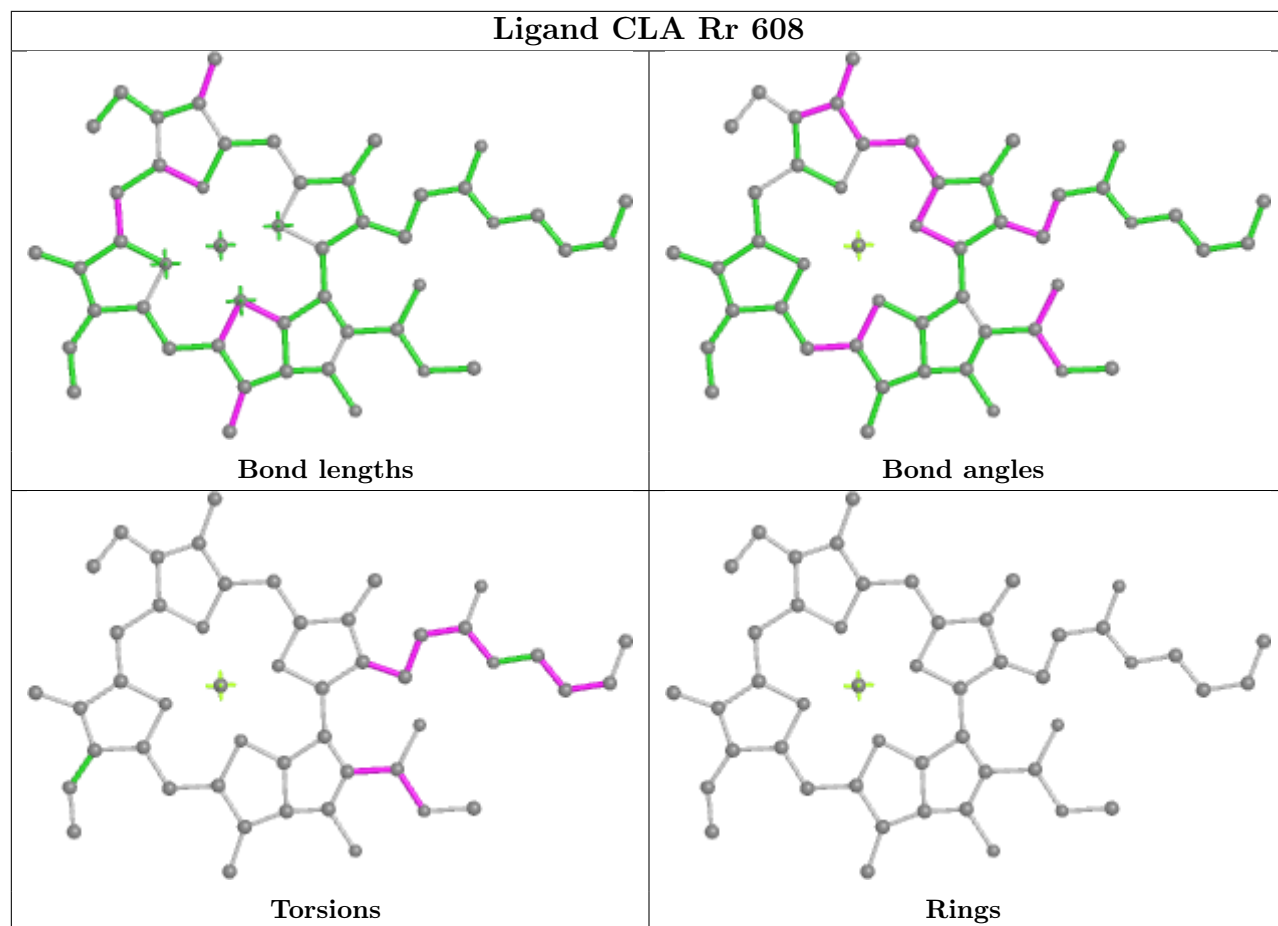


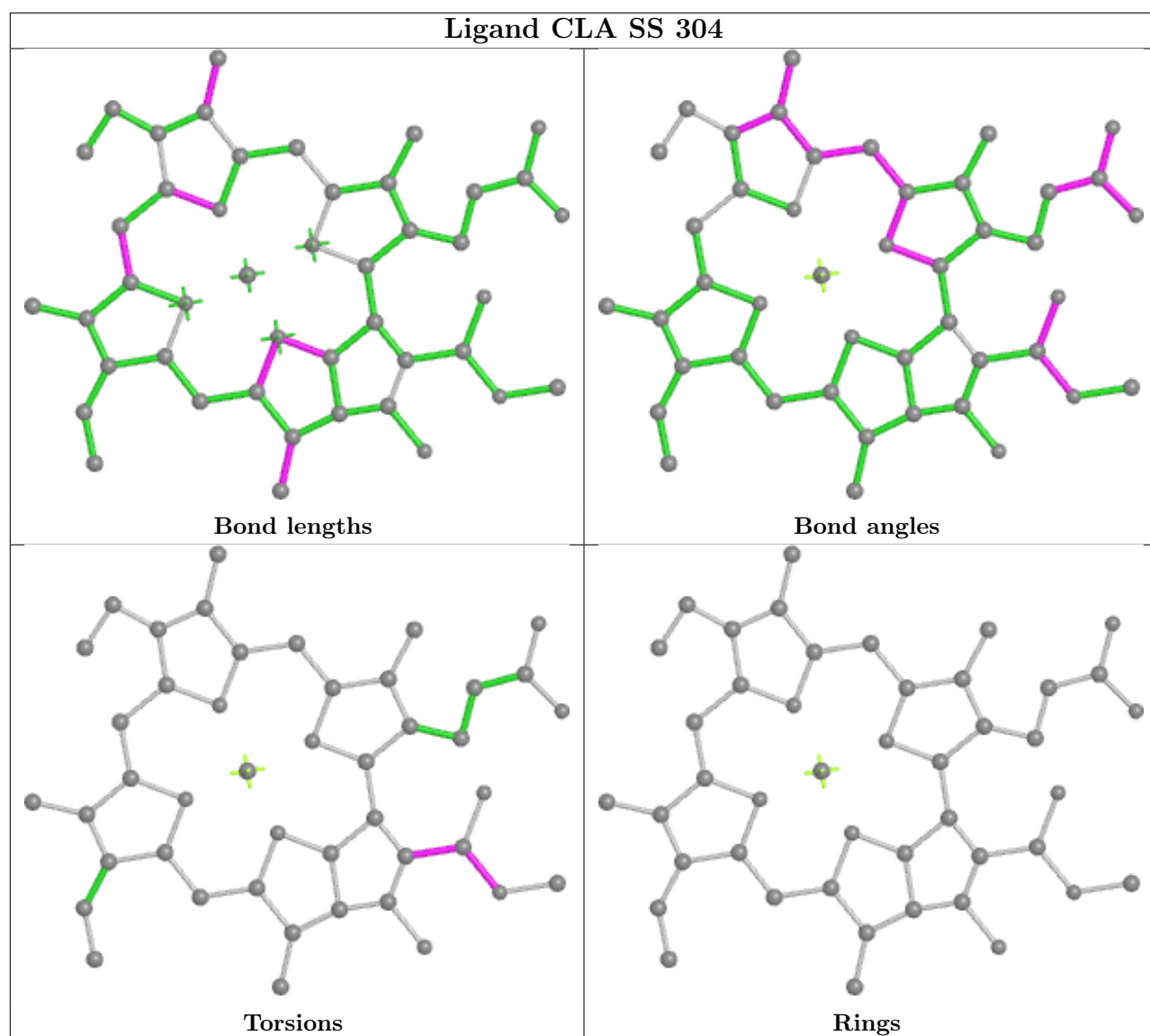
Rings

Ligand CLA RR 304

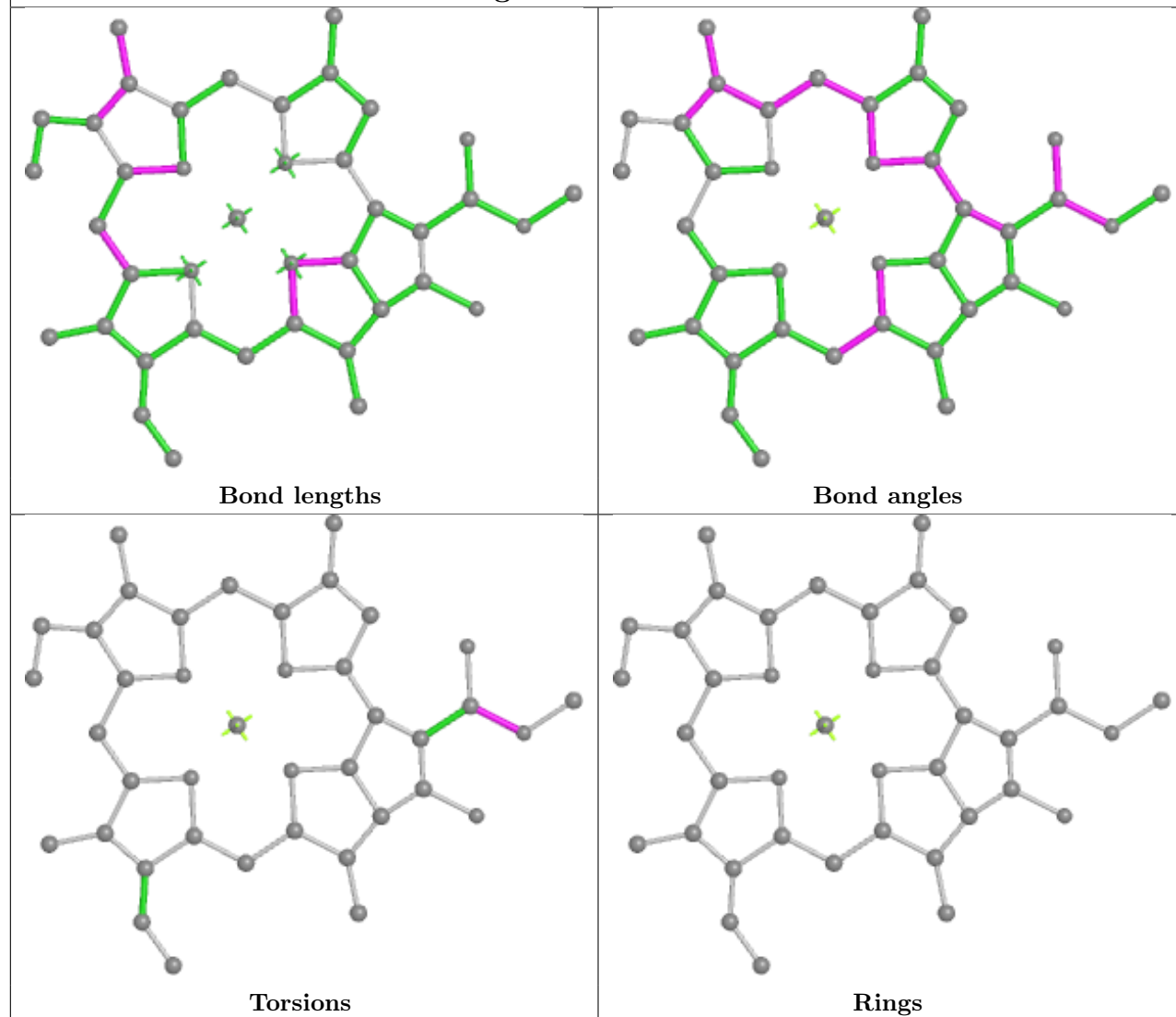




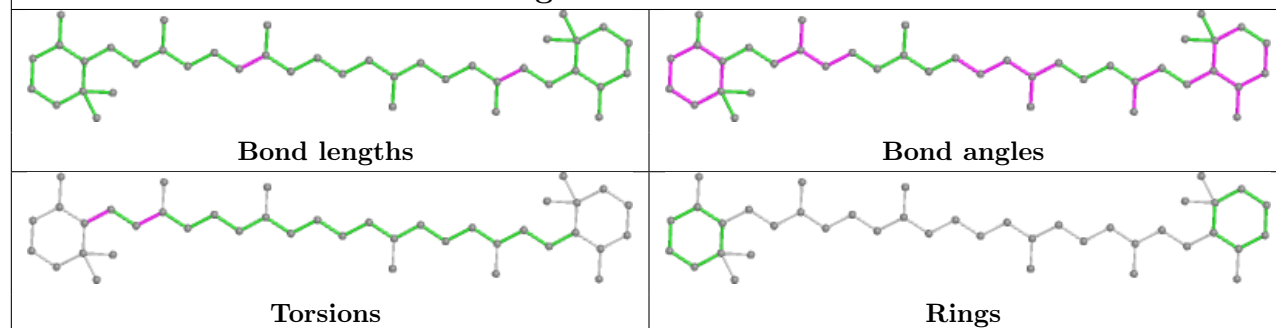


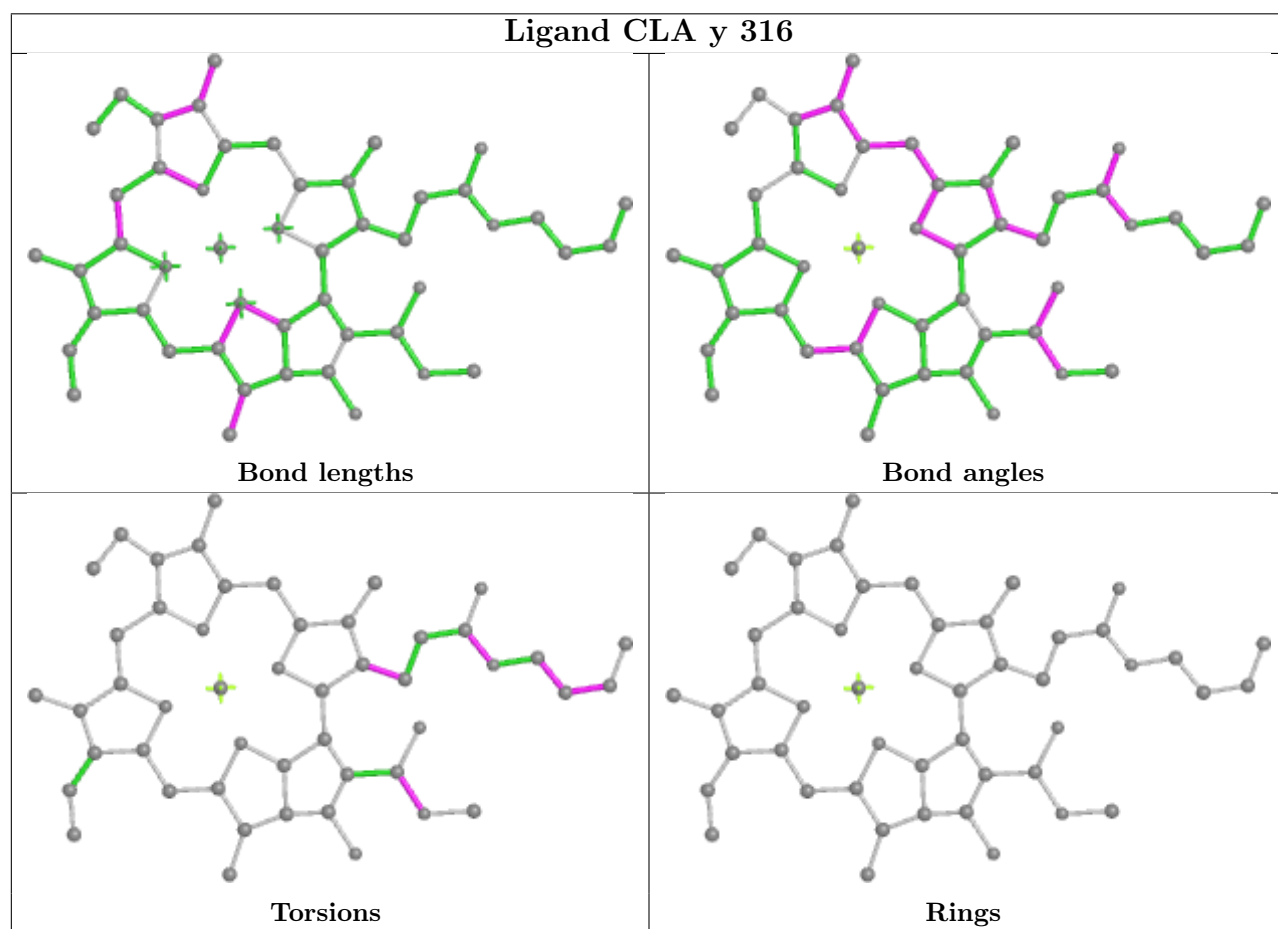
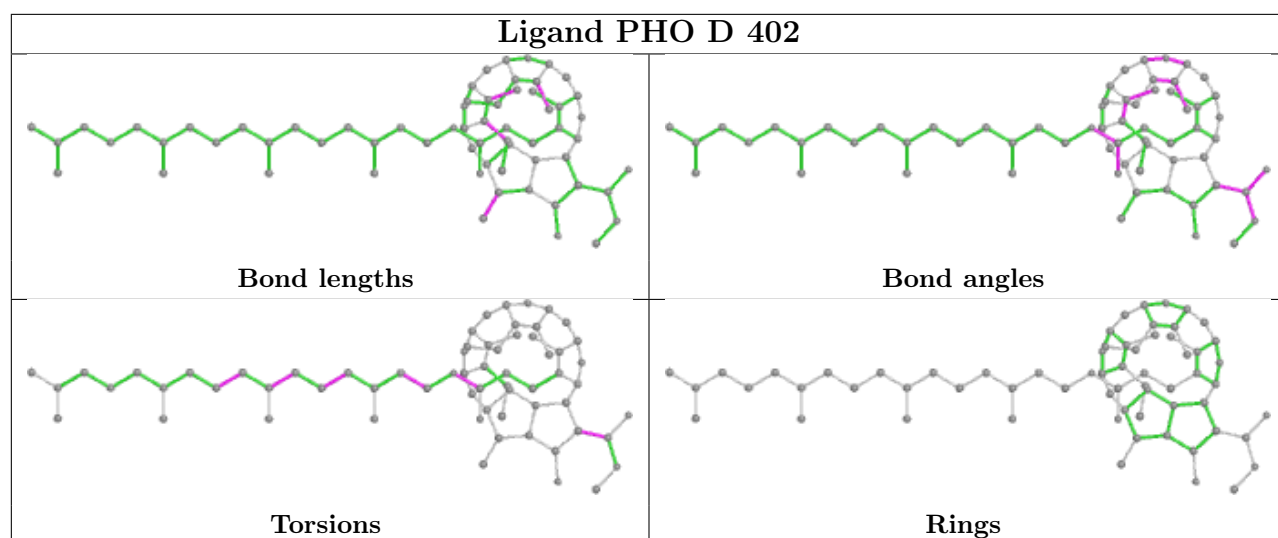


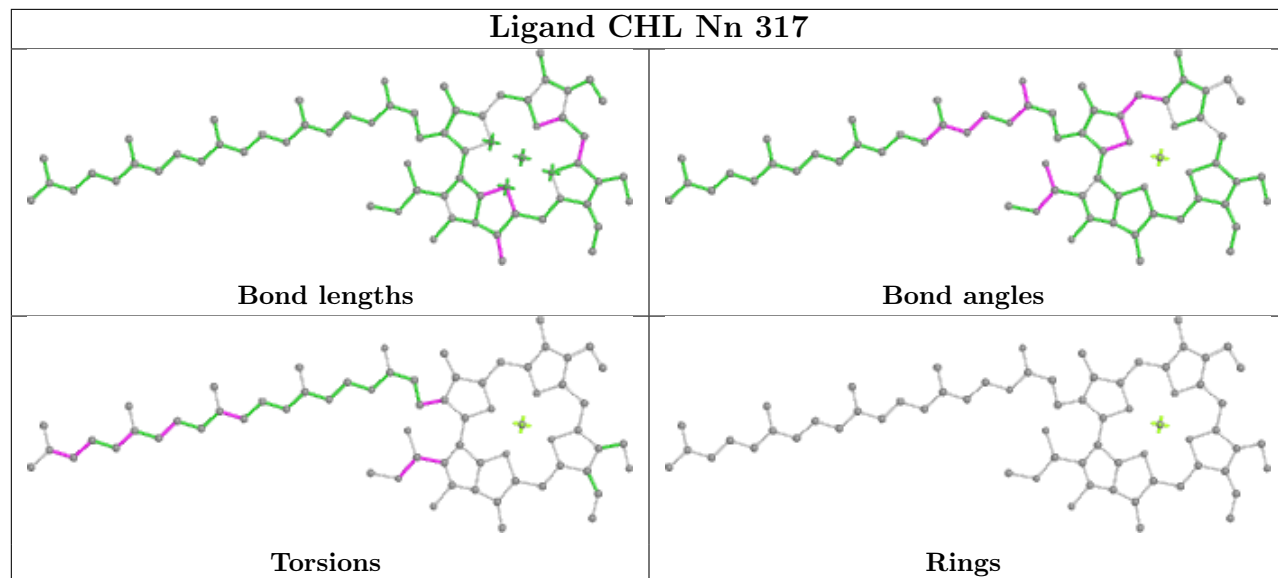
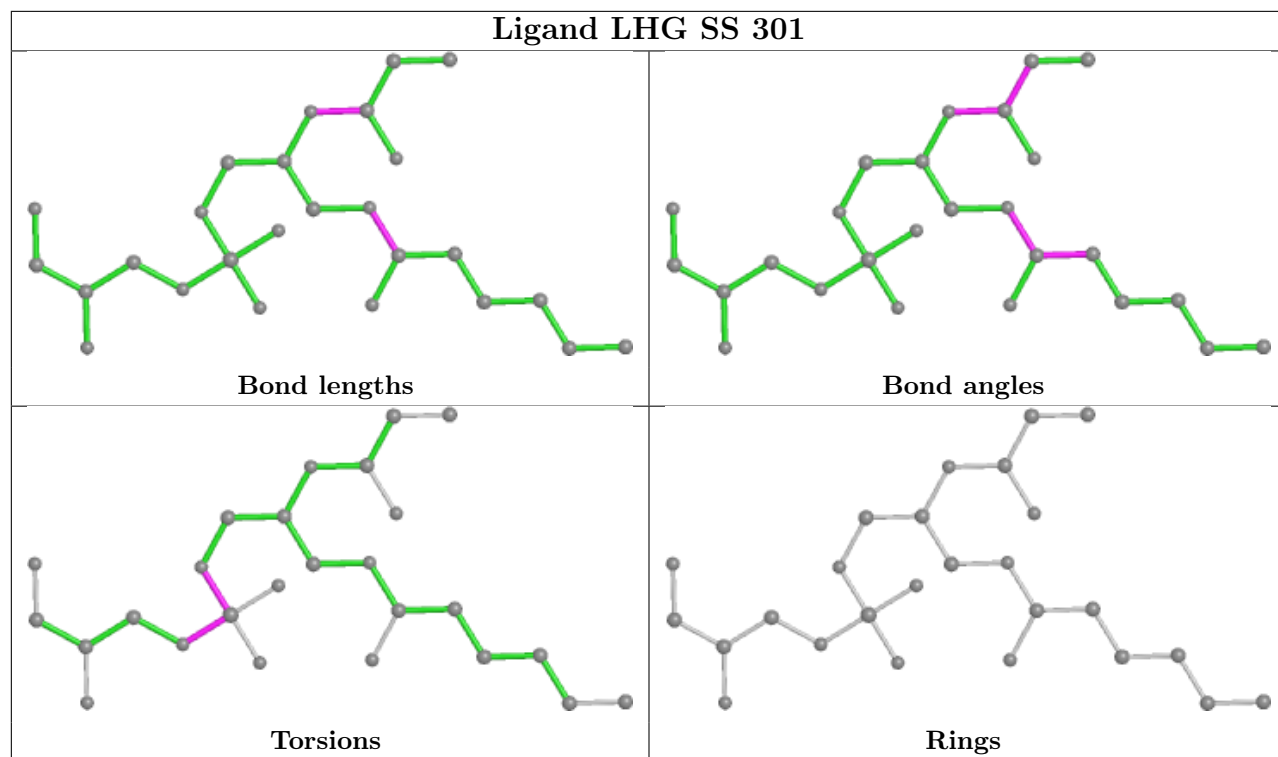
Ligand CLA 3 602

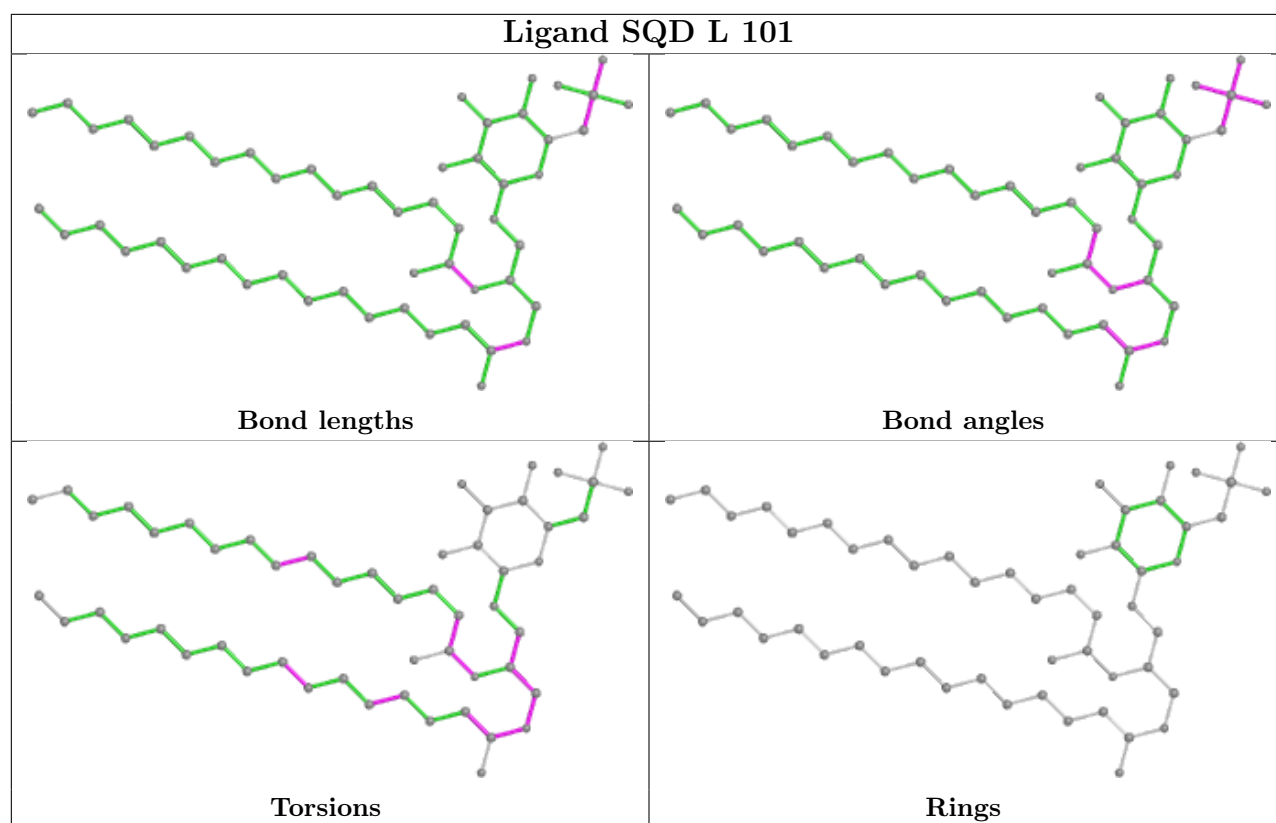


Ligand BCR c 514

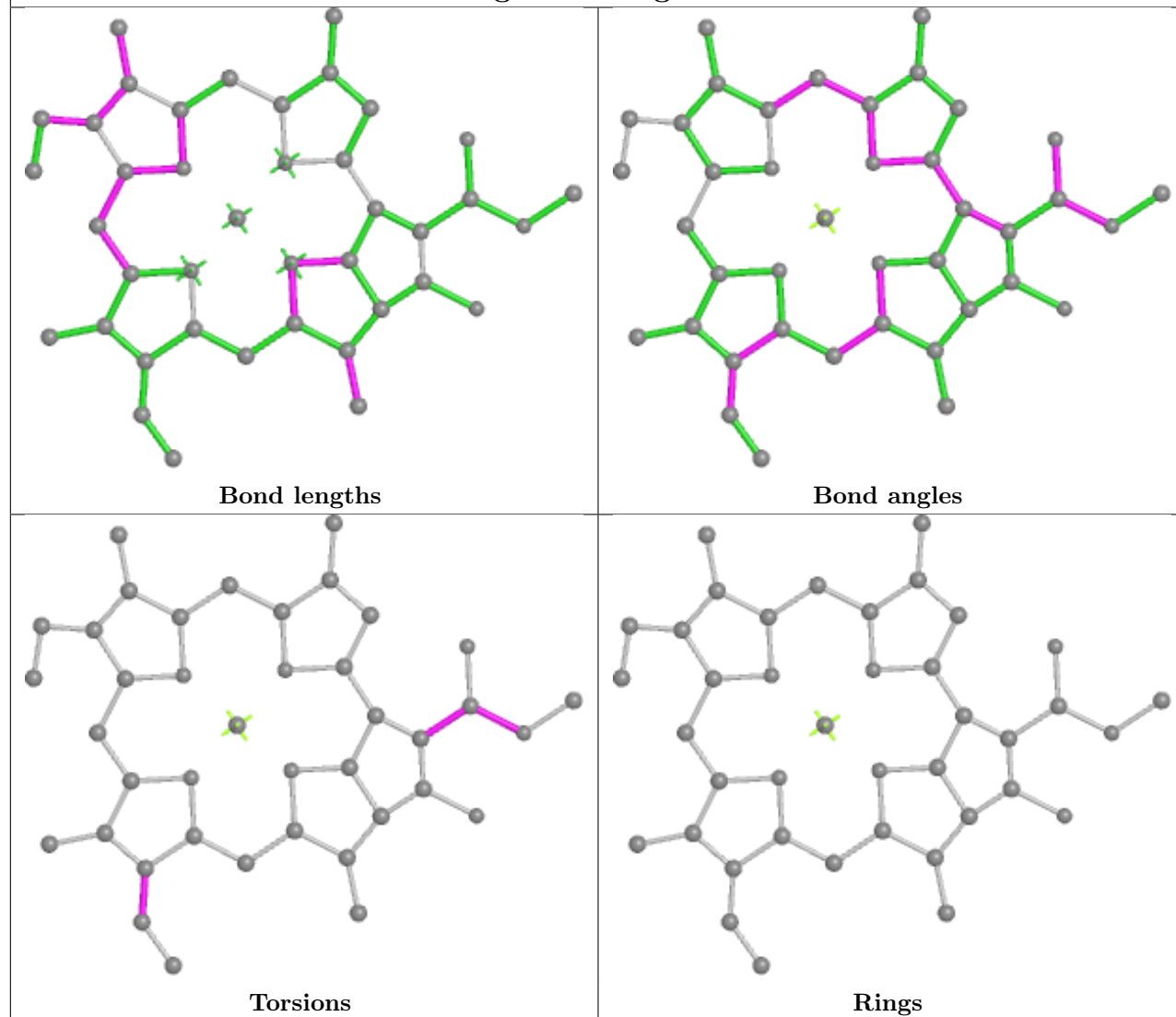




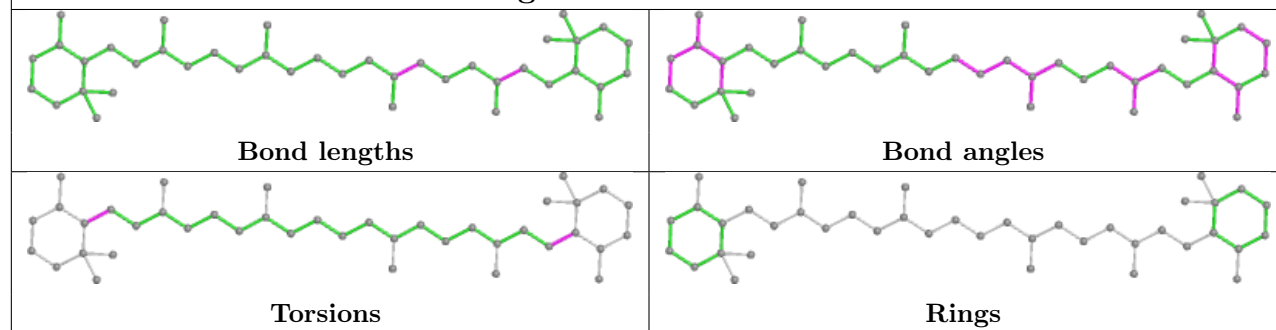




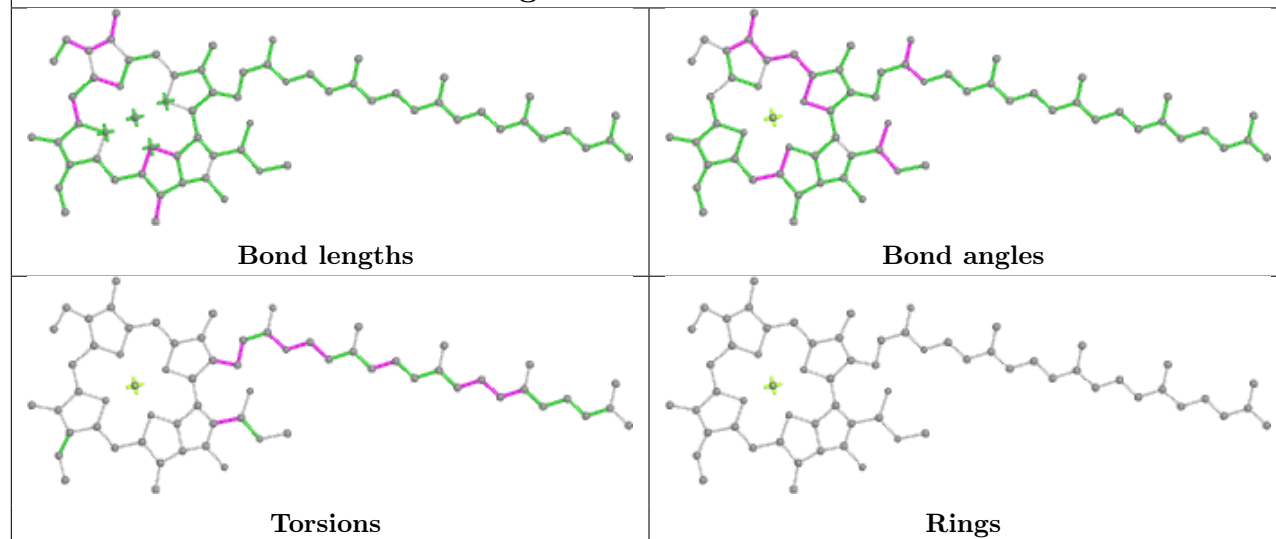
Ligand CLA g 613



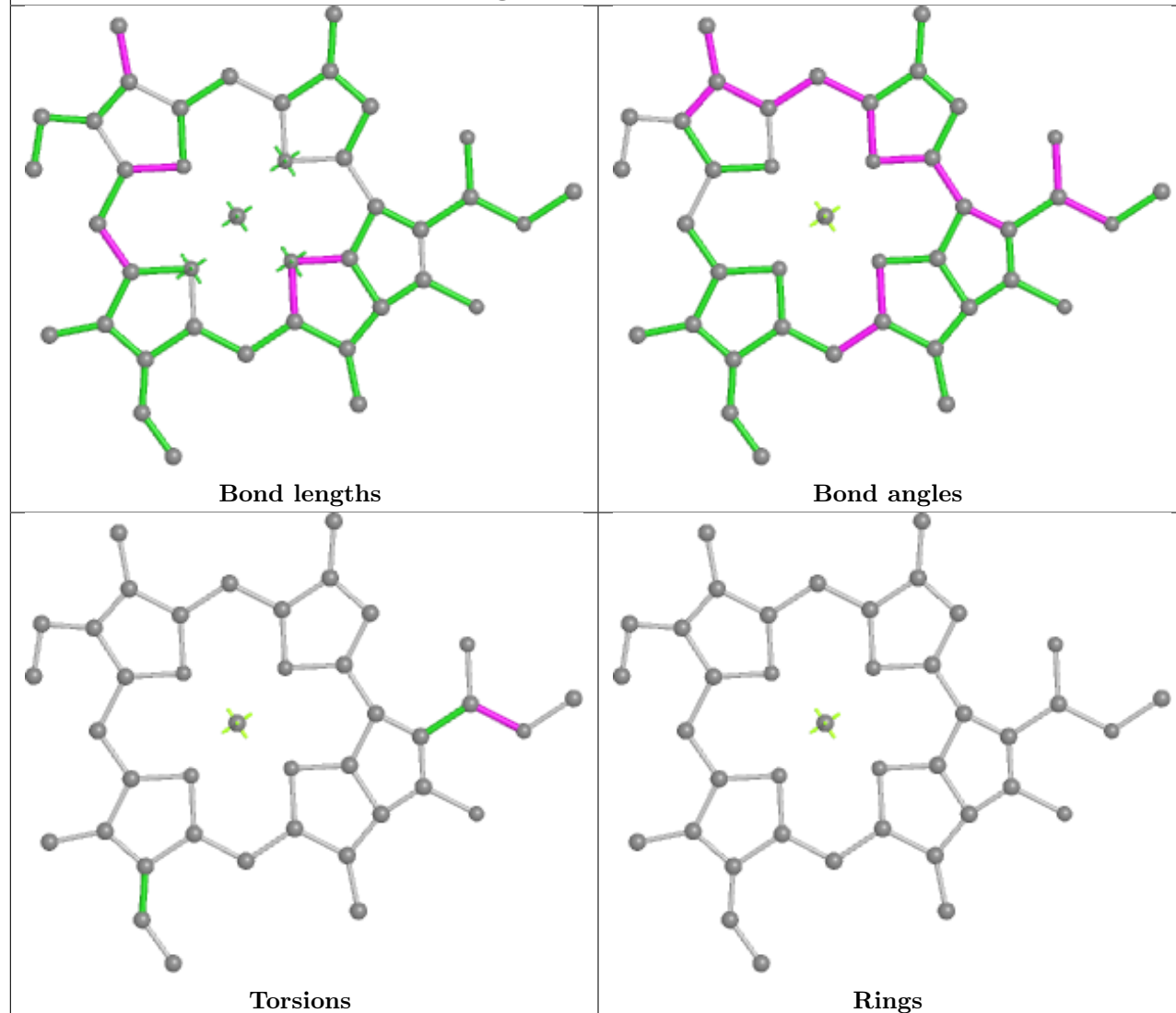
Ligand BCR BB 617



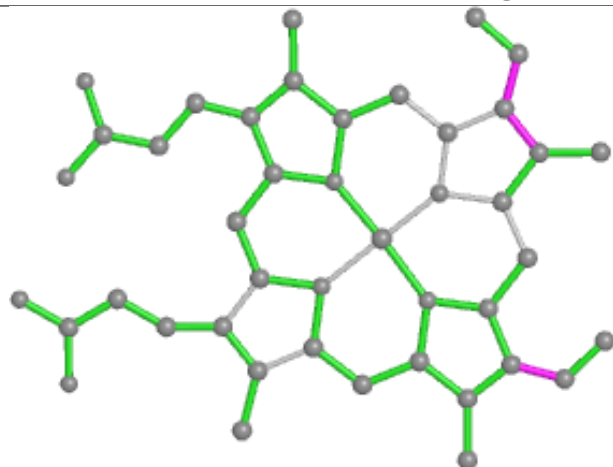
Ligand CLA CC 510



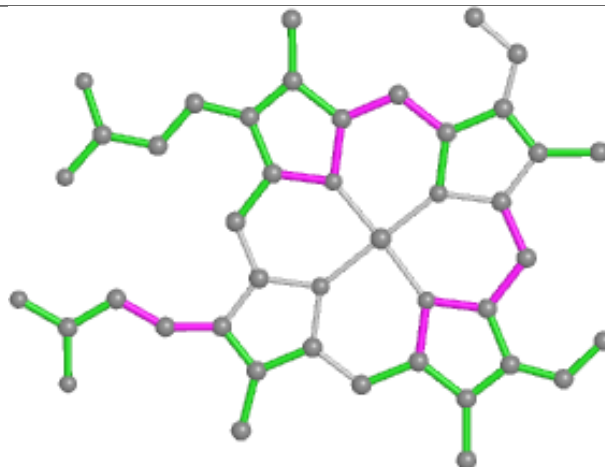
Ligand CLA 2 612



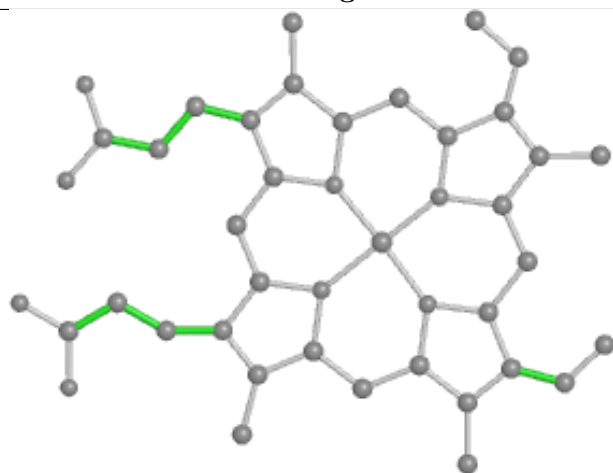
Ligand HEM EE 102



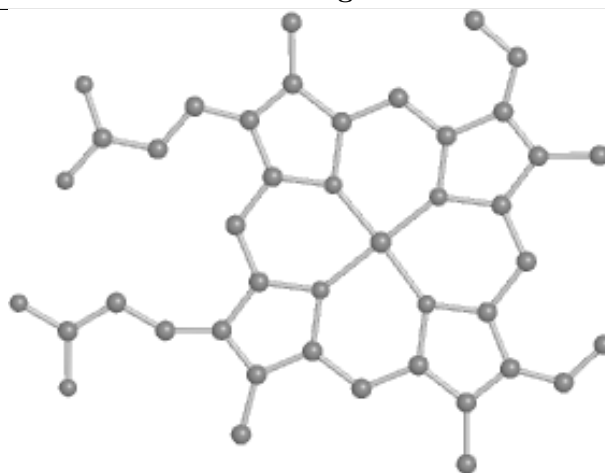
Bond lengths



Bond angles

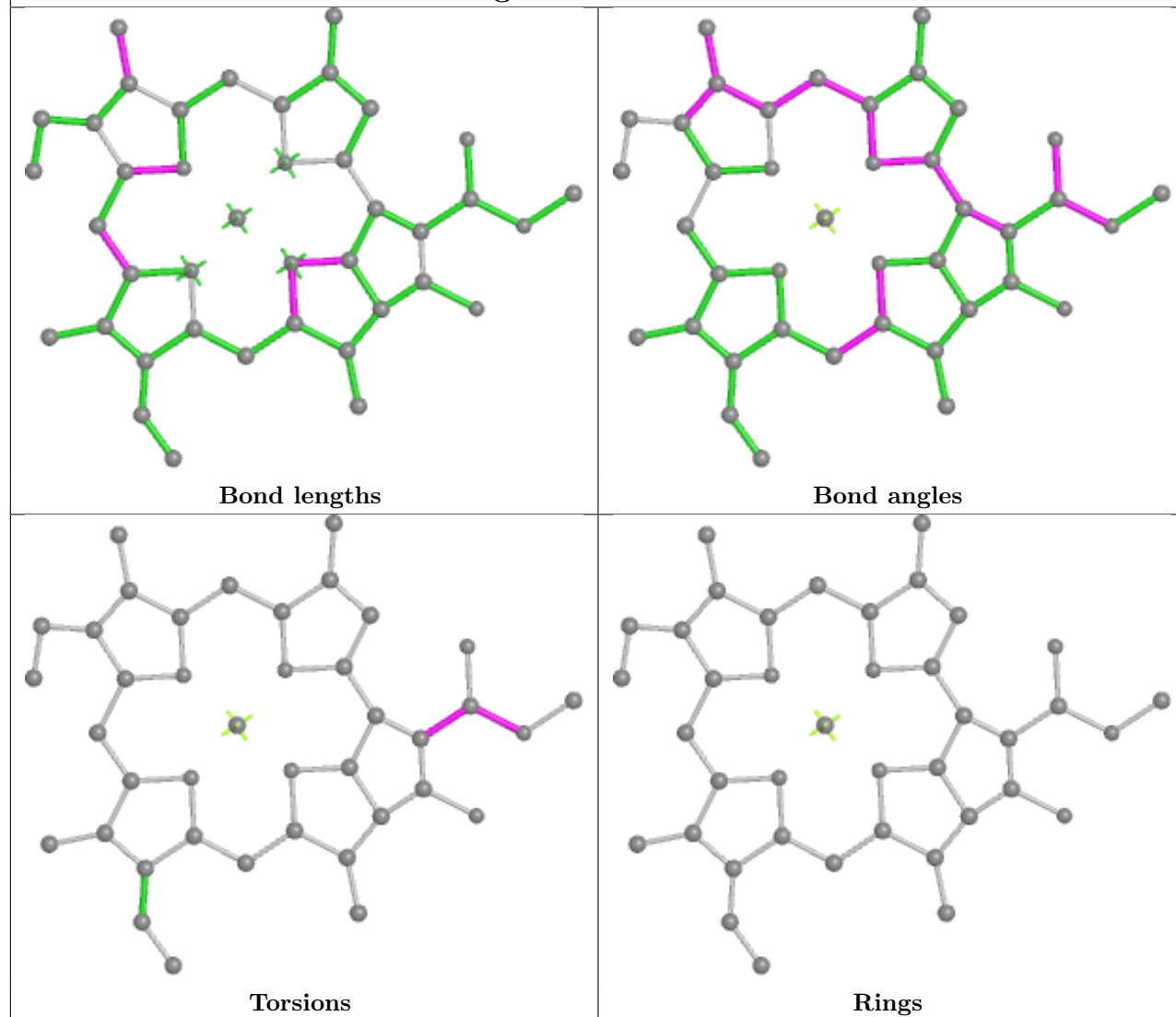


Torsions

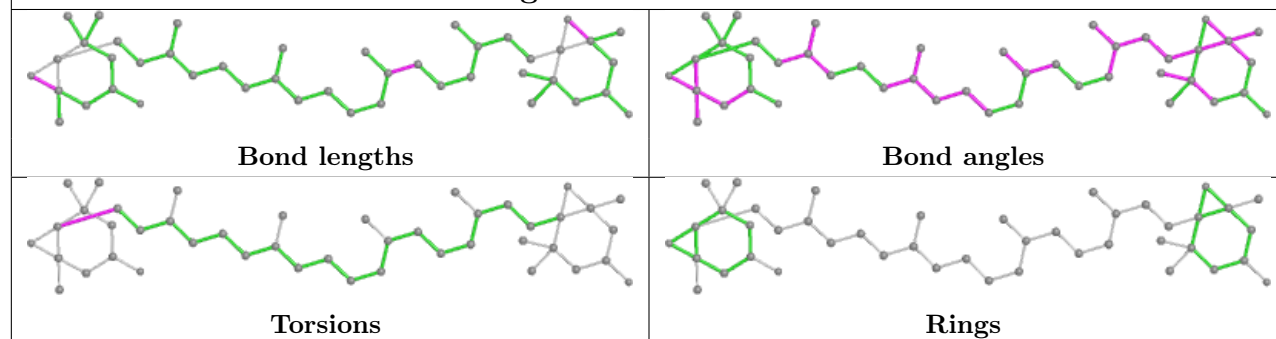


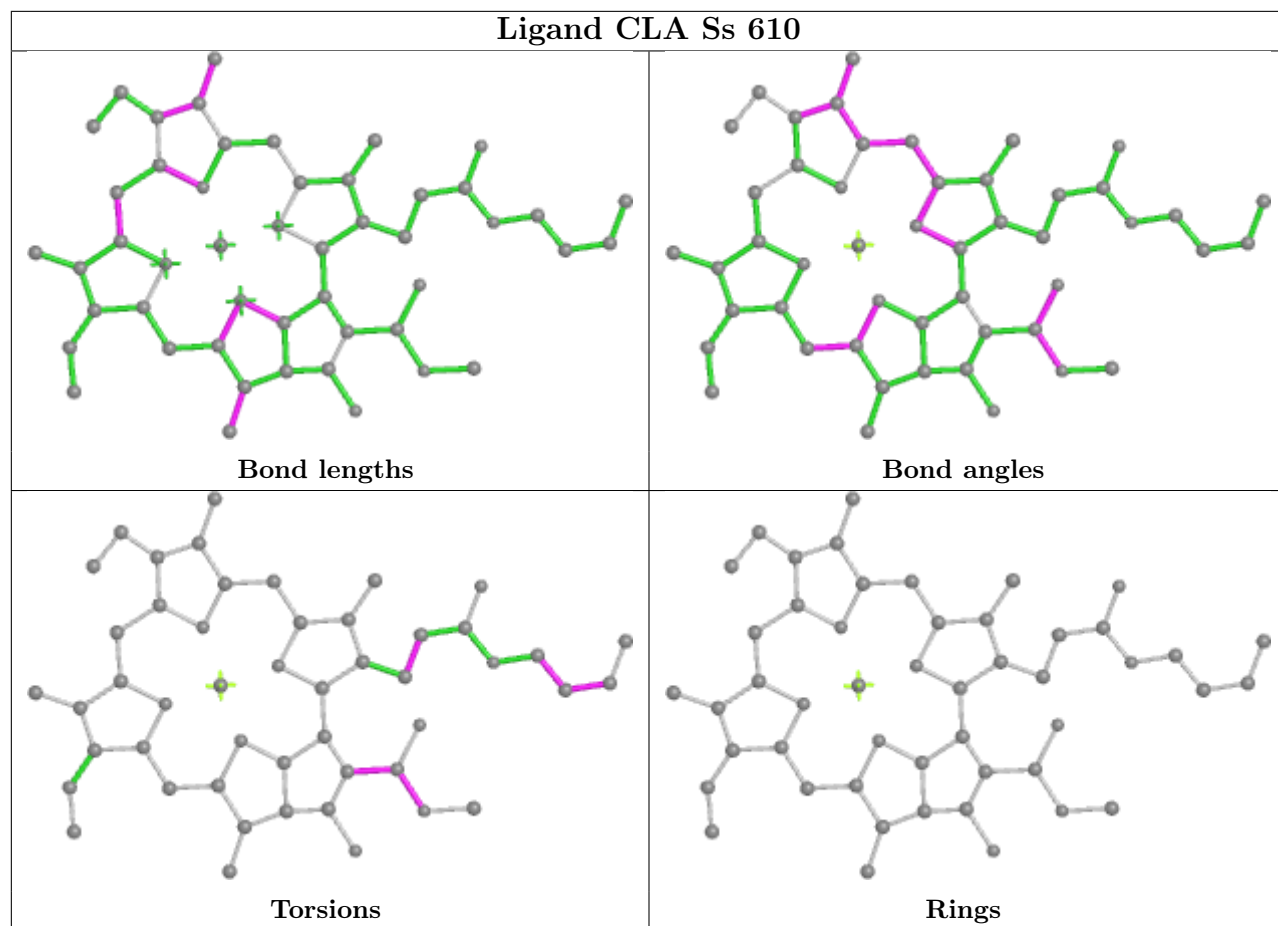
Rings

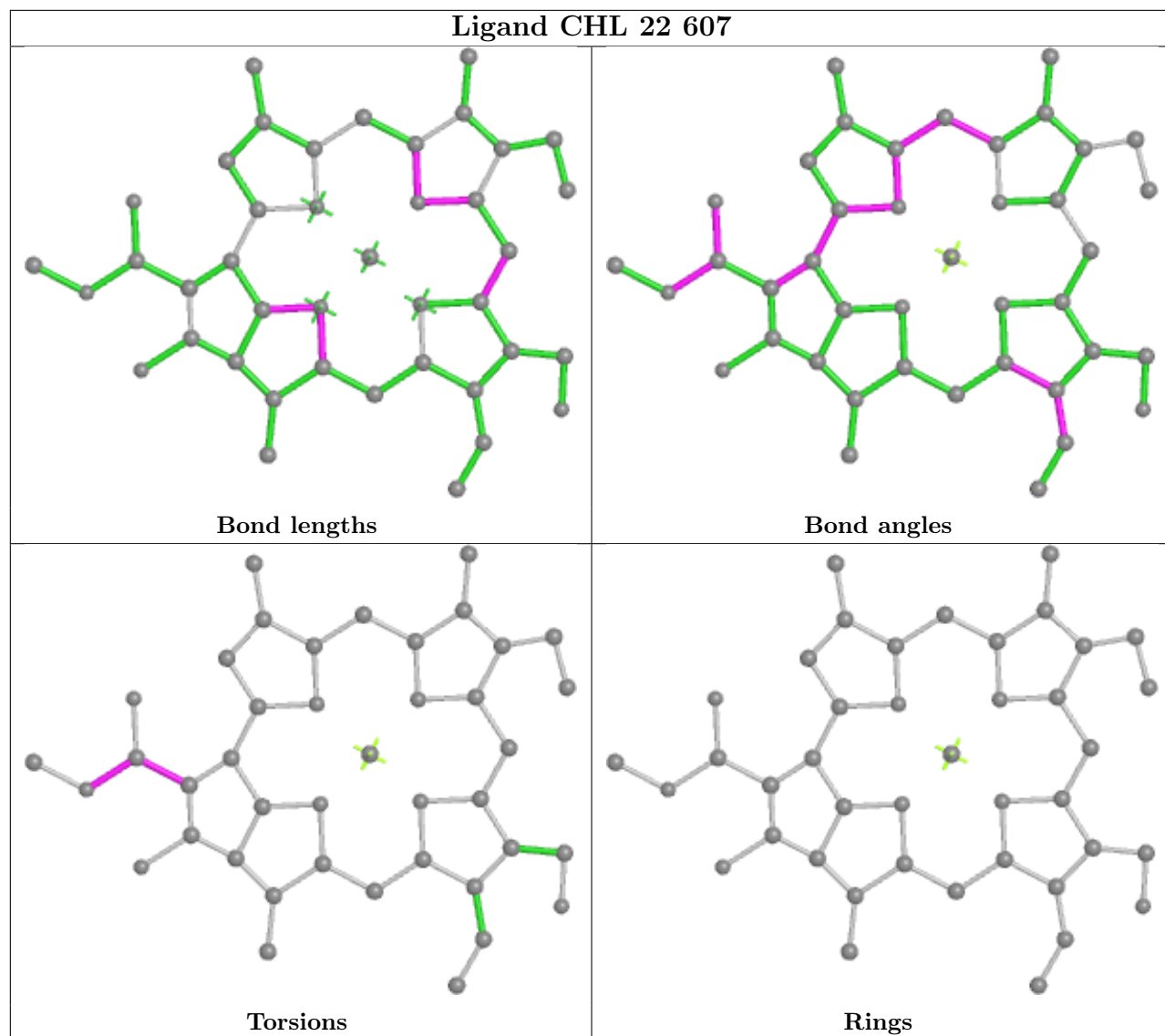
Ligand CLA 3 603



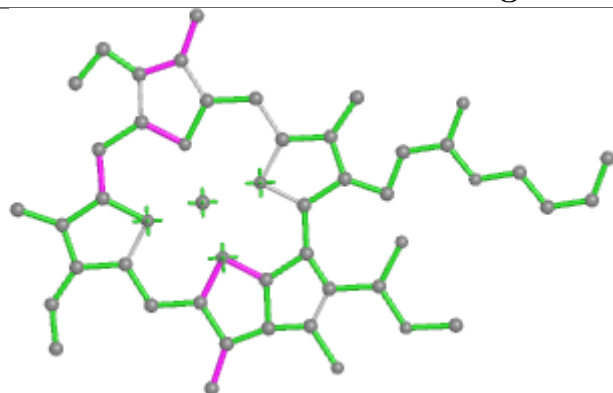
Ligand XAT Nn 308



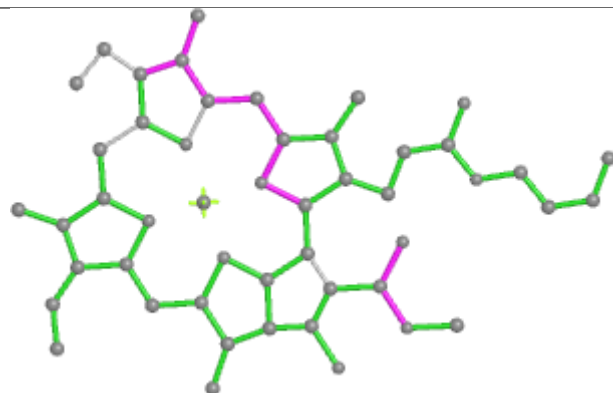




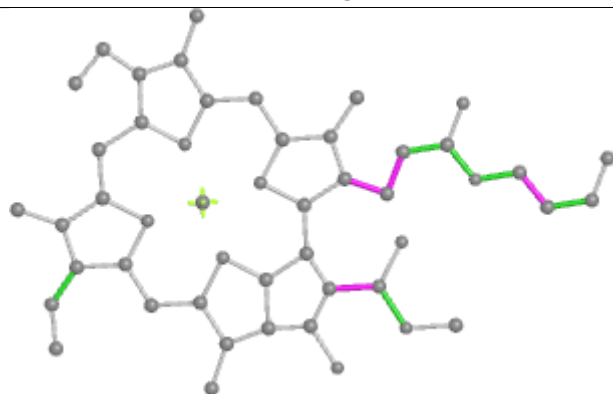
Ligand CLA RR 311



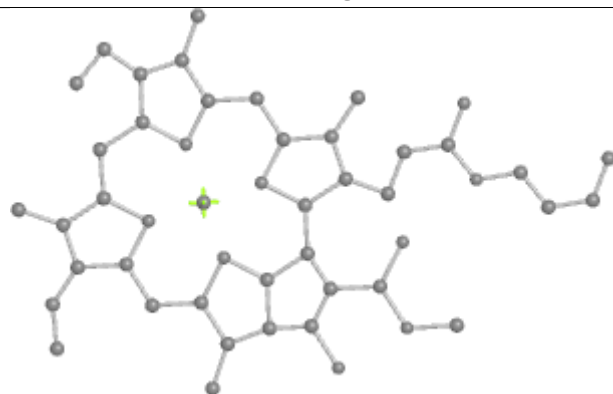
Bond lengths



Bond angles

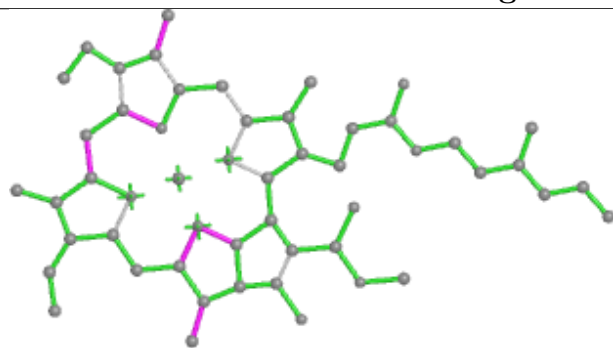


Torsions

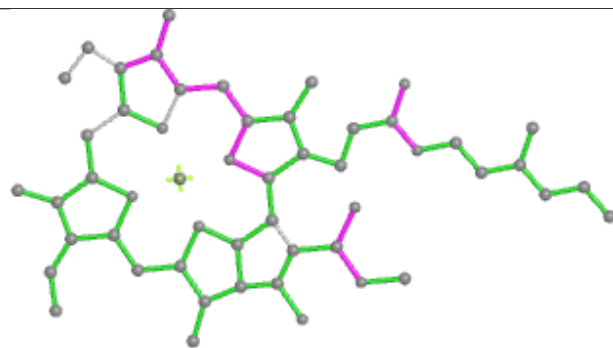


Rings

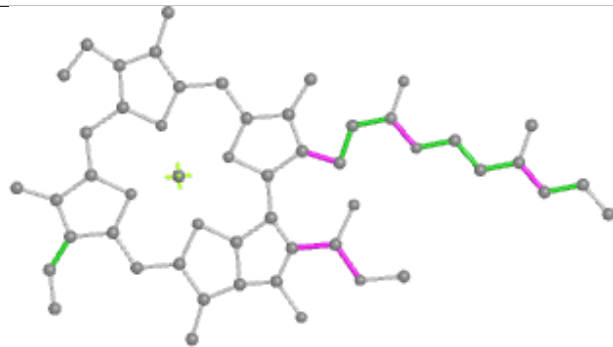
Ligand CLA GG 611



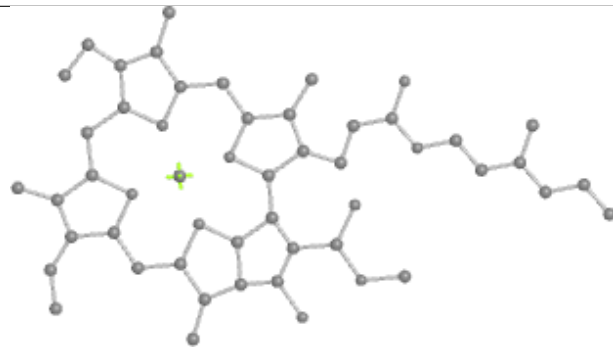
Bond lengths



Bond angles

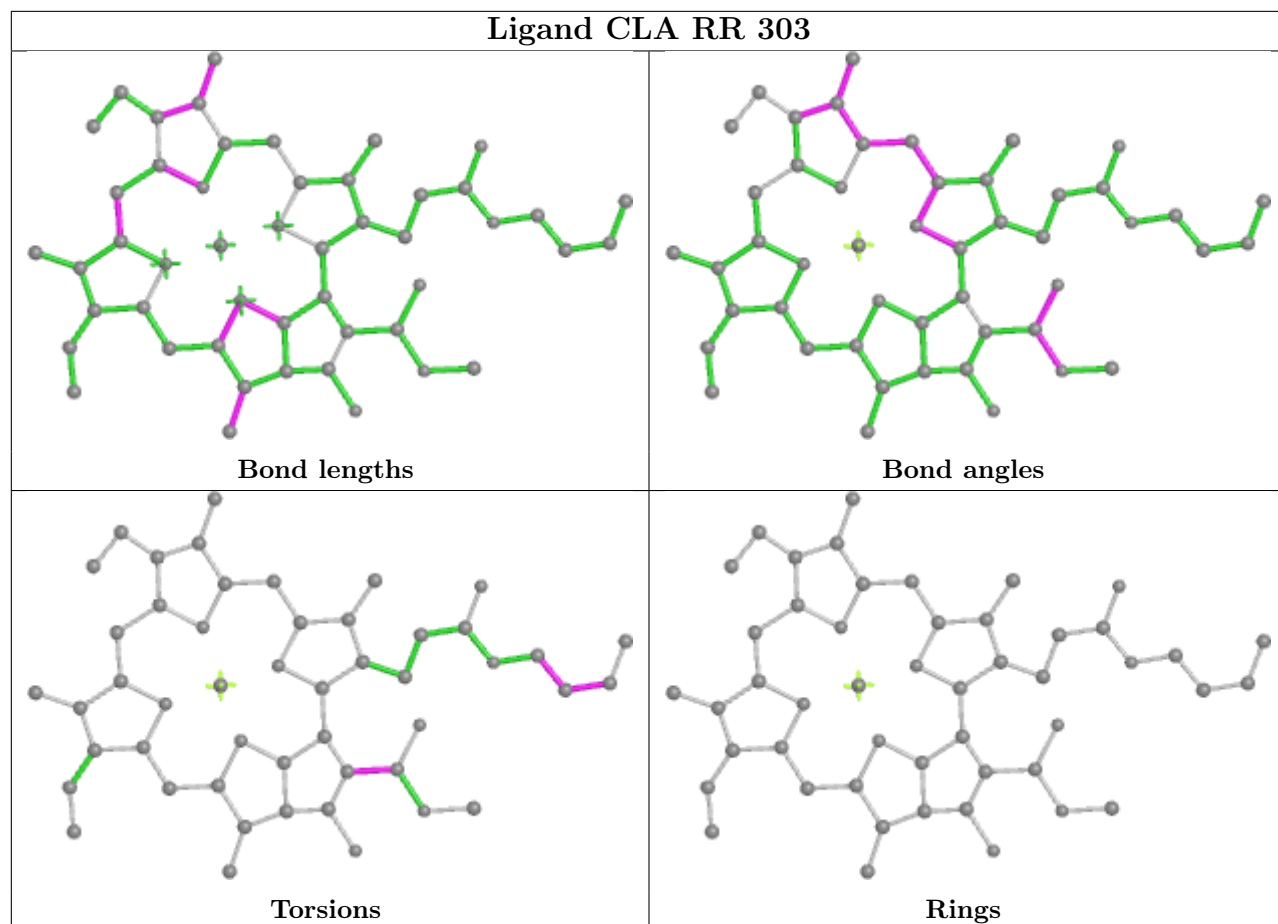


Torsions

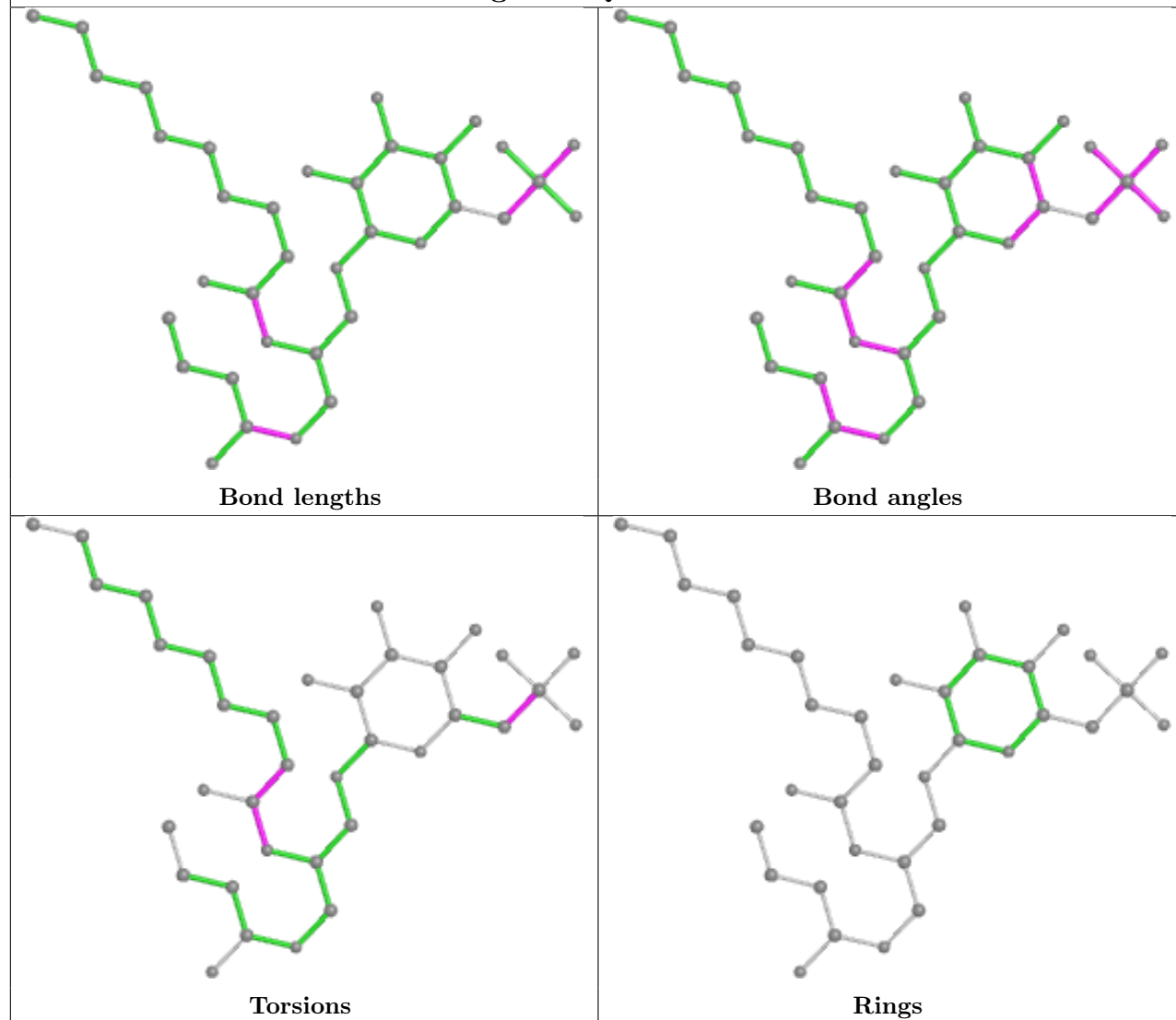


Rings

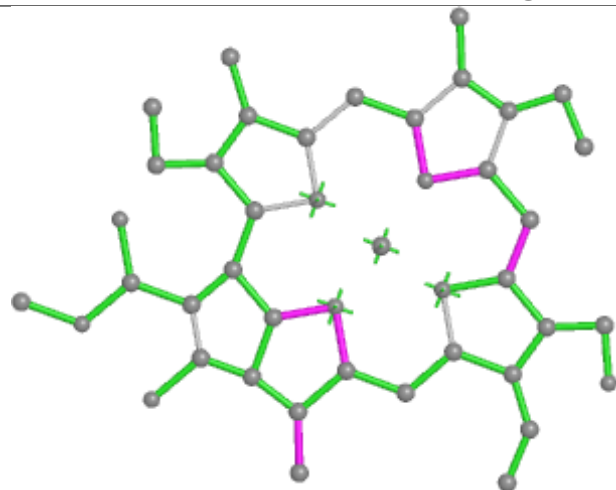
Ligand CLA RR 303



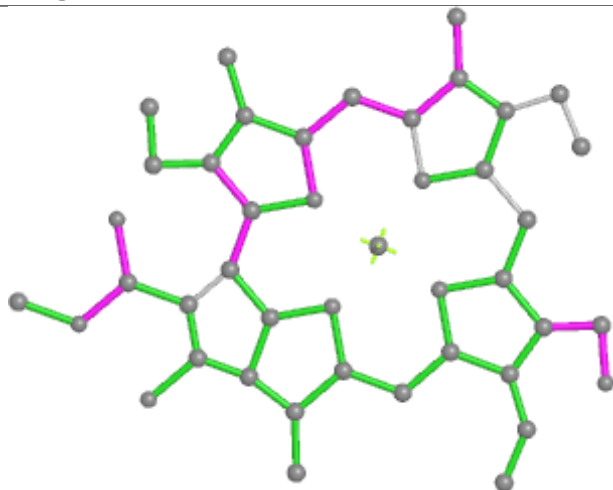
Ligand SQD B 617



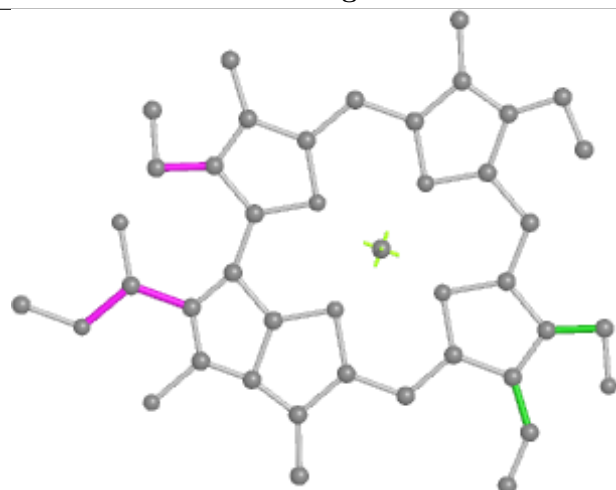
Ligand CHL g 605



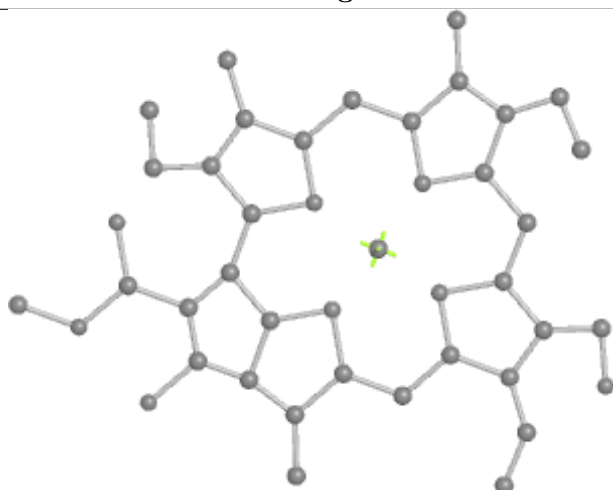
Bond lengths



Bond angles

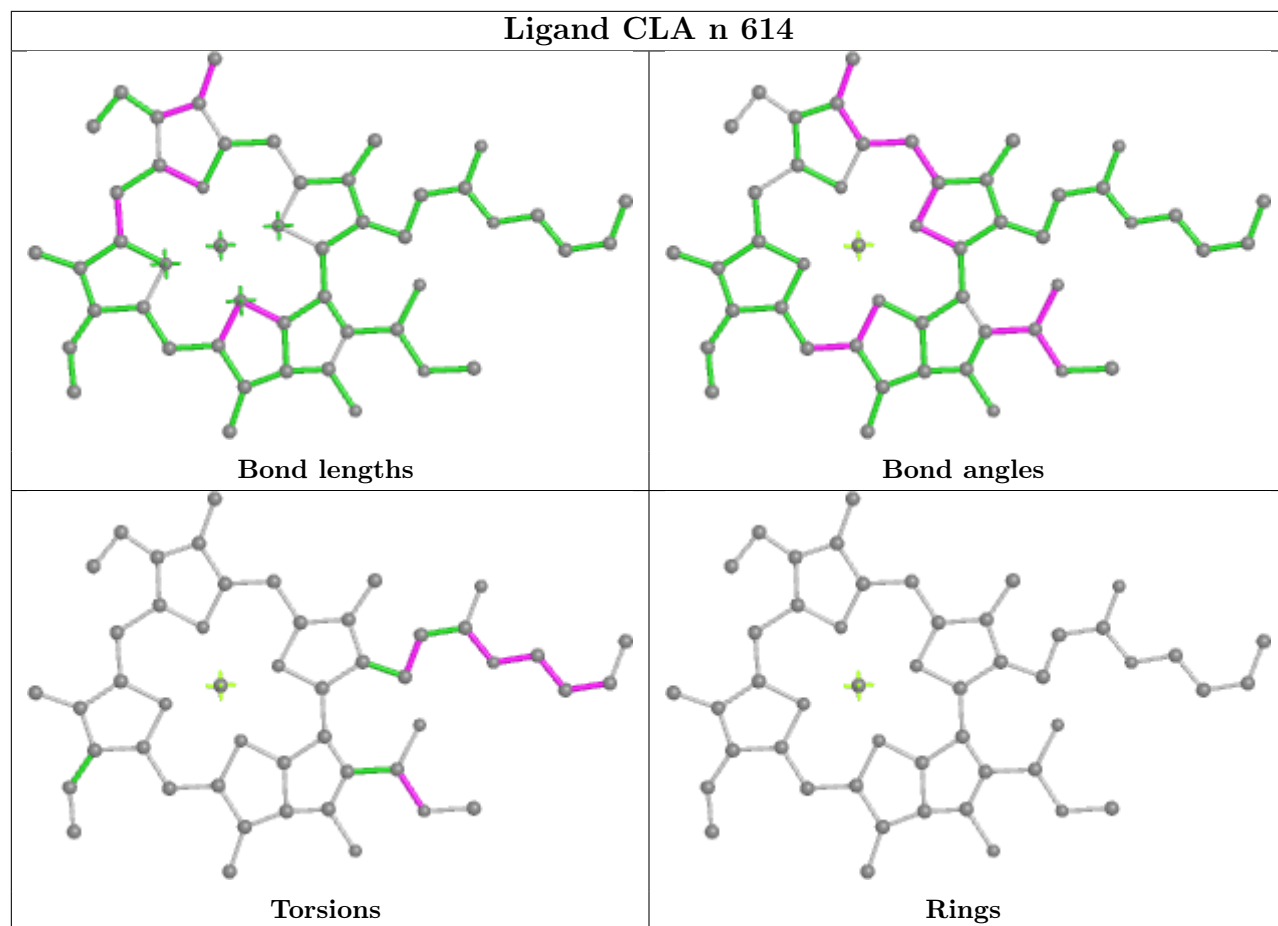


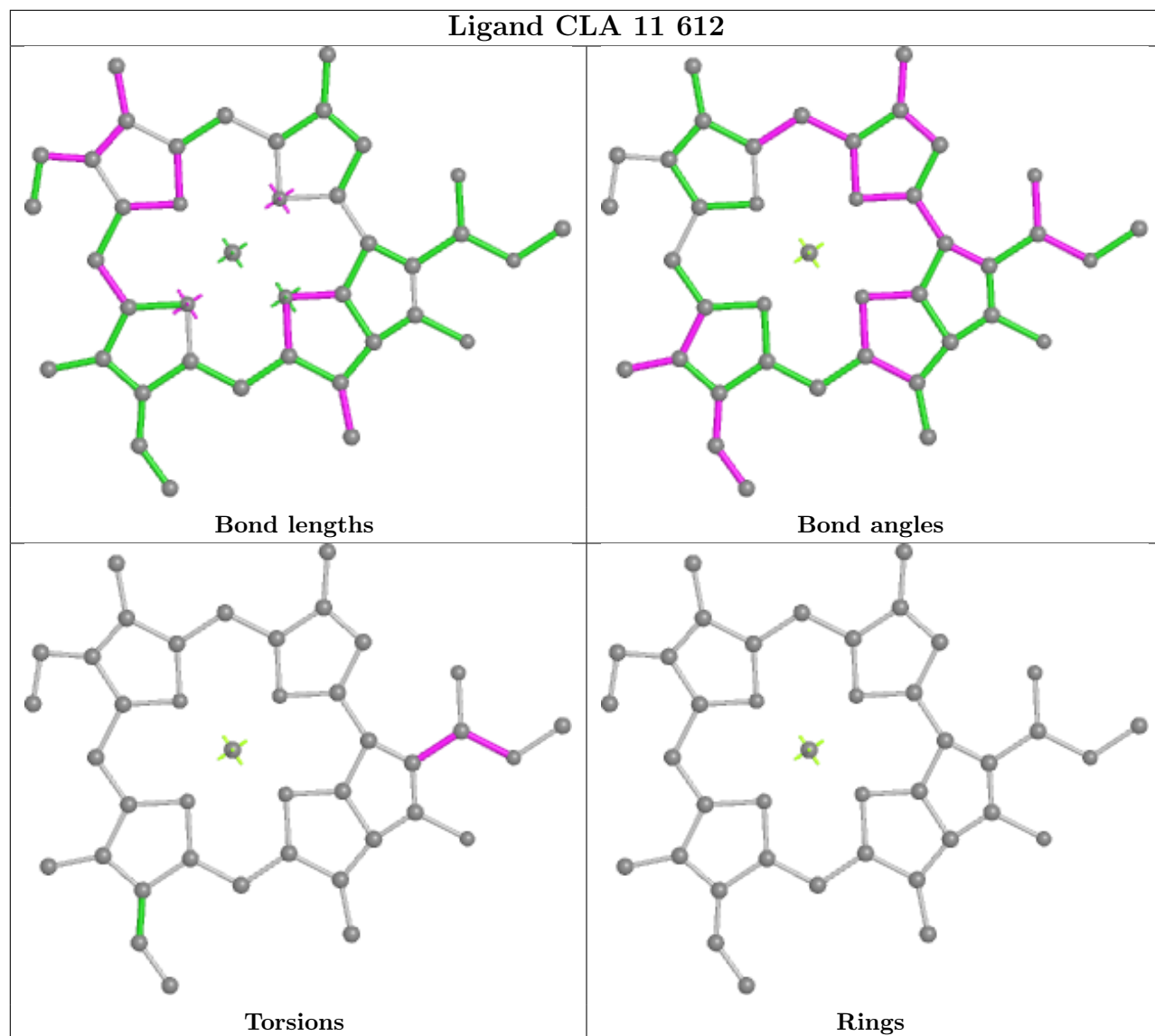
Torsions



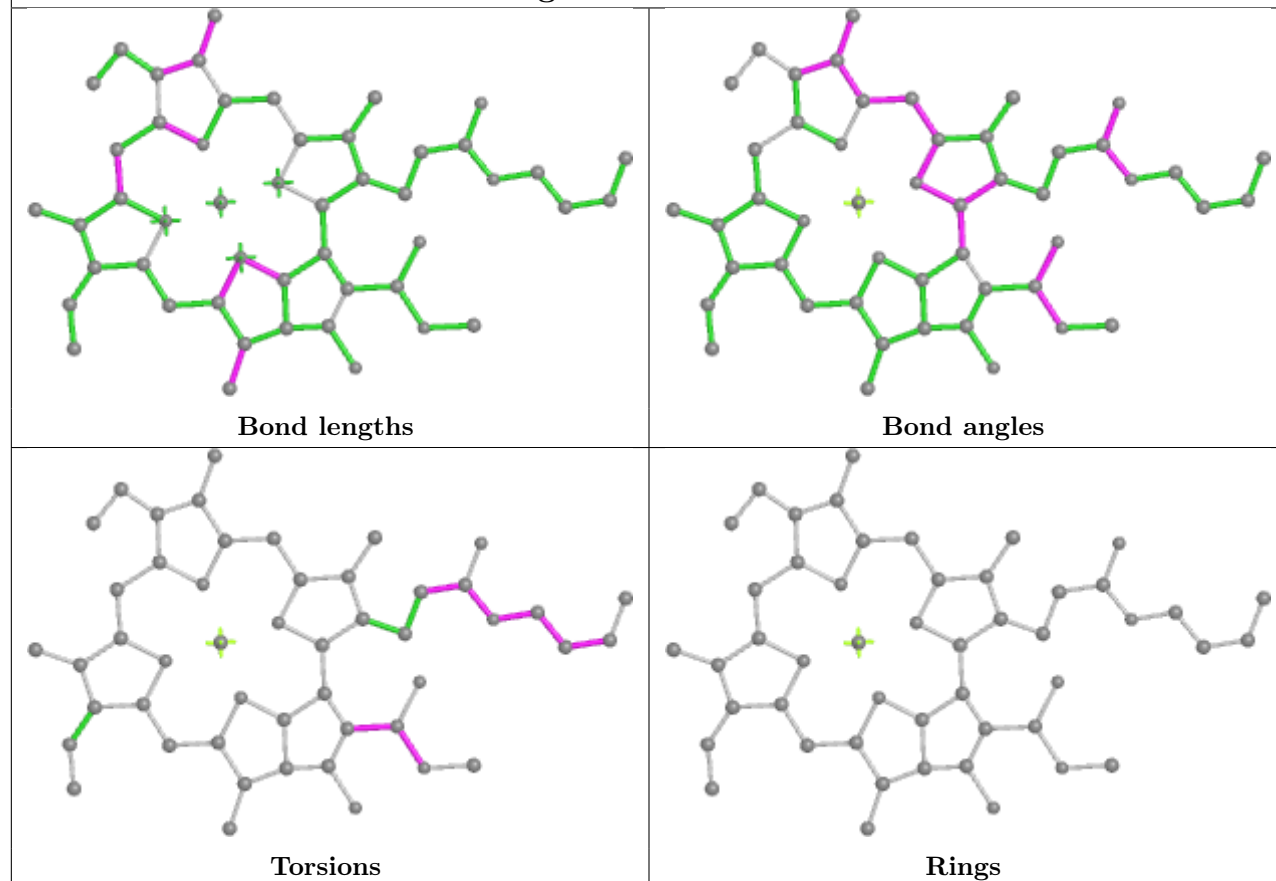
Rings

Ligand CLA n 614

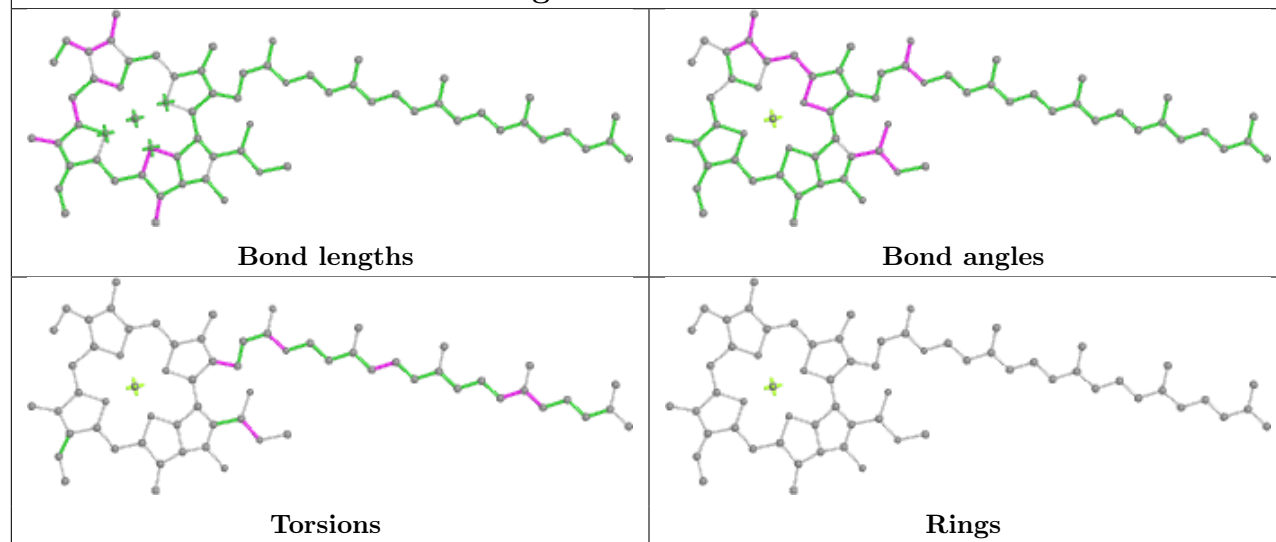


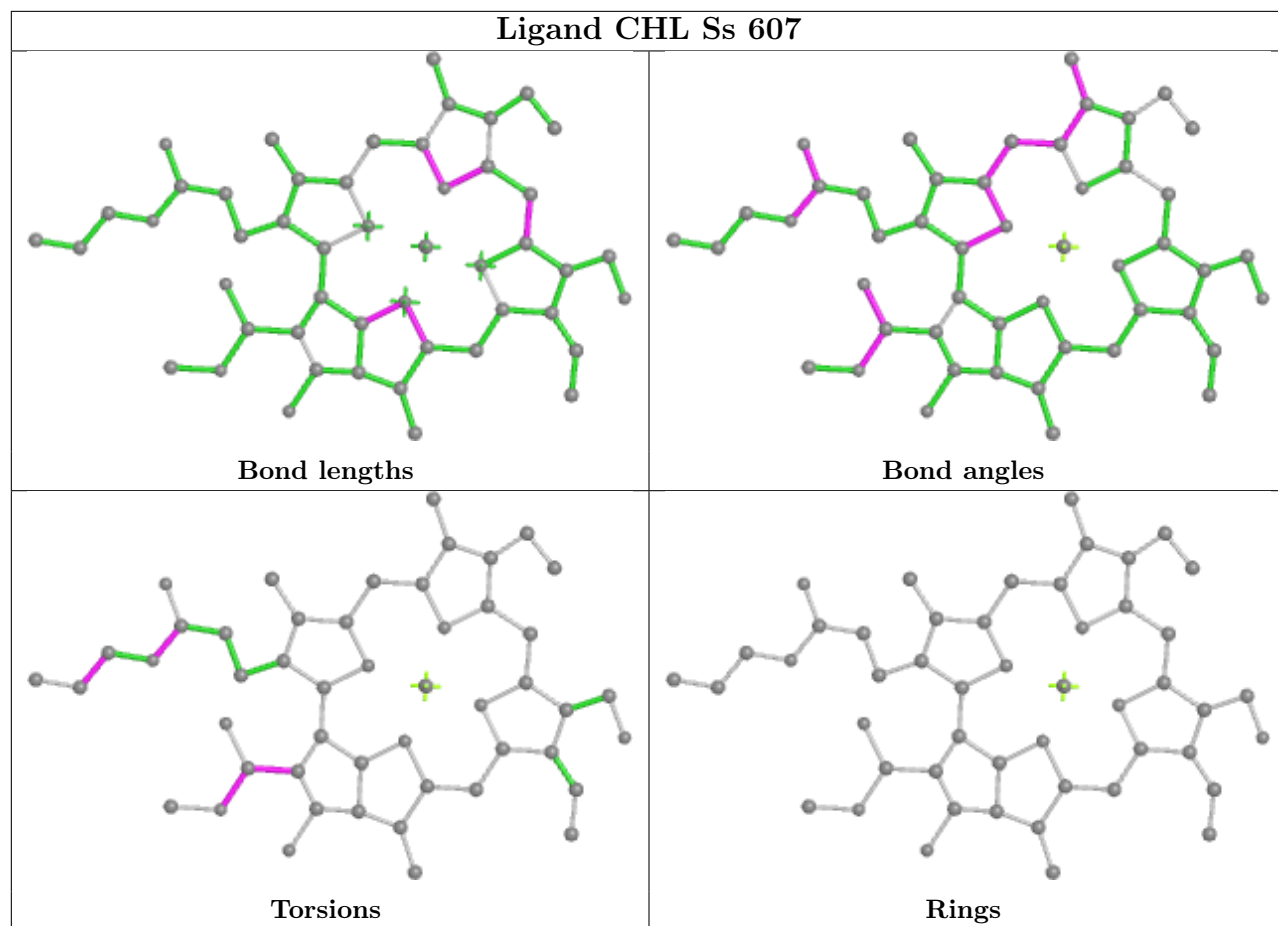


Ligand CLA s 611

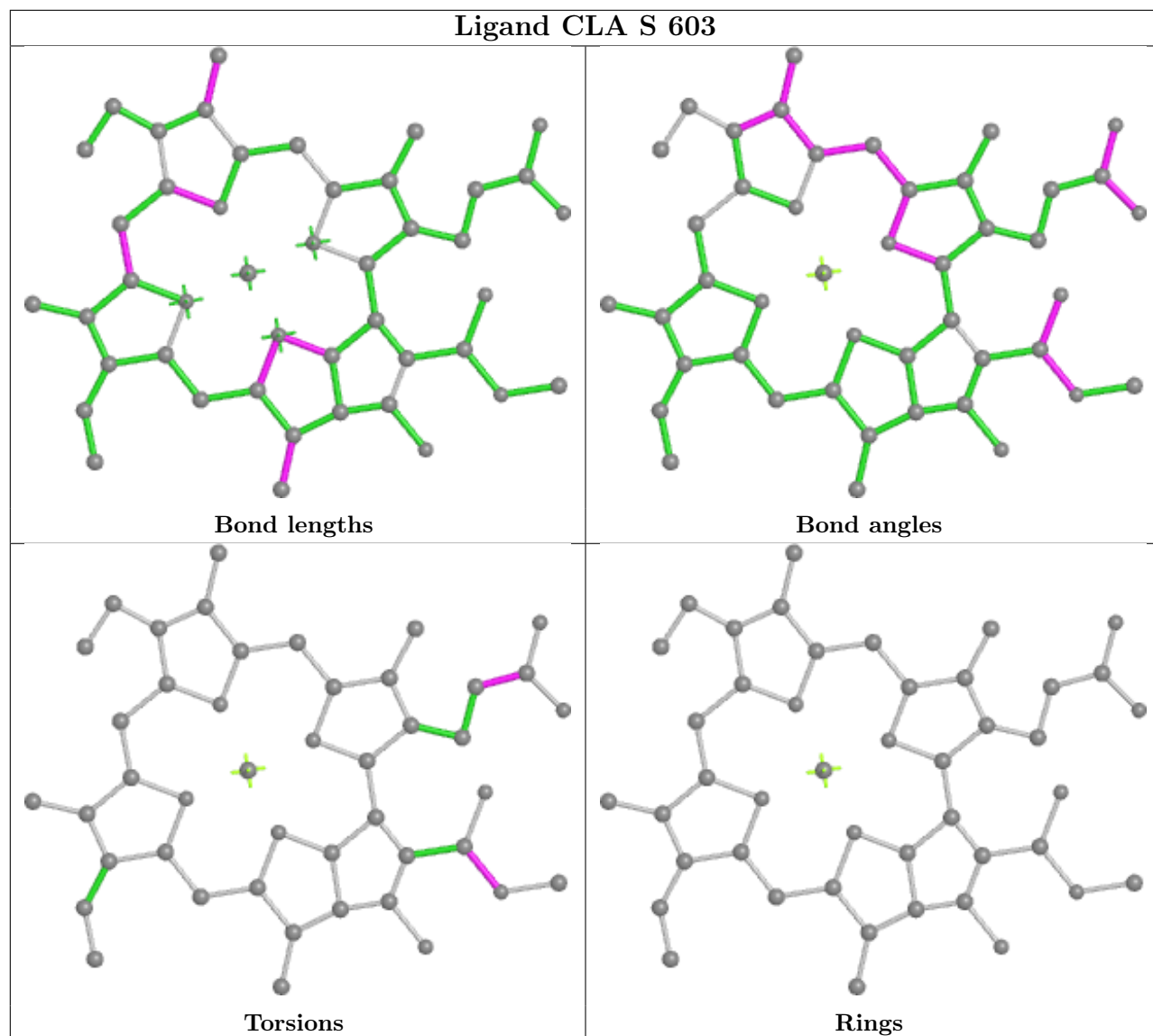


Ligand CLA B 620

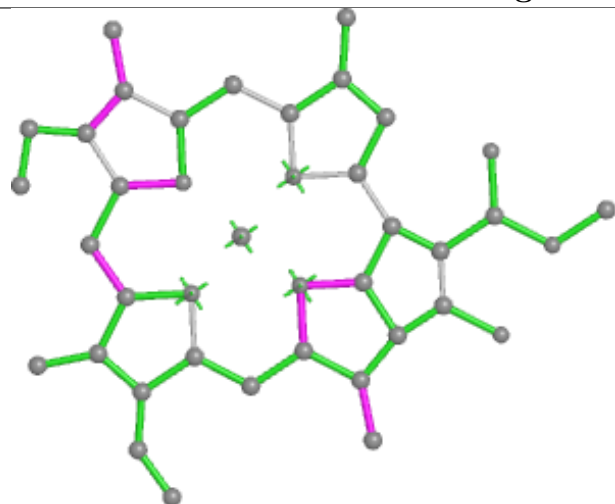




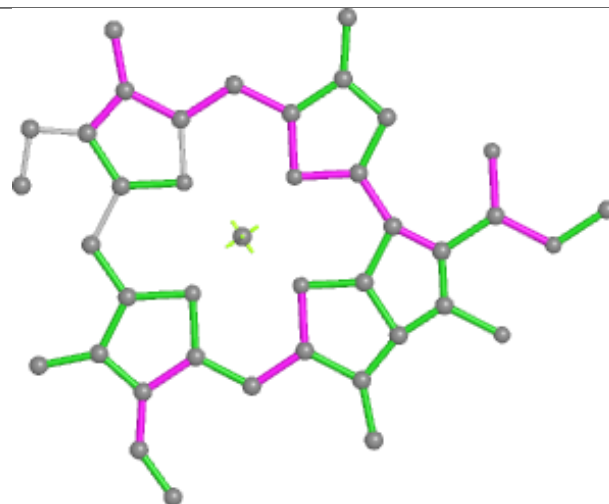
Ligand CLA S 603



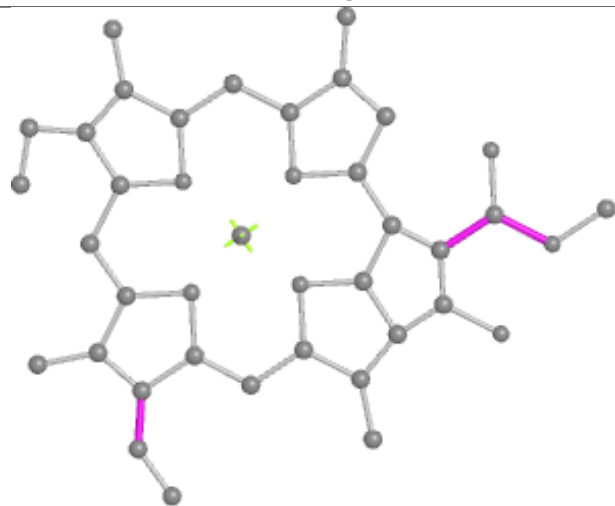
Ligand CLA G 613



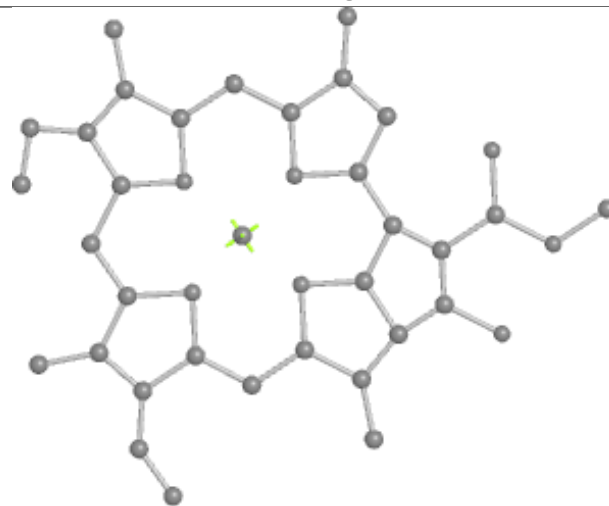
Bond lengths



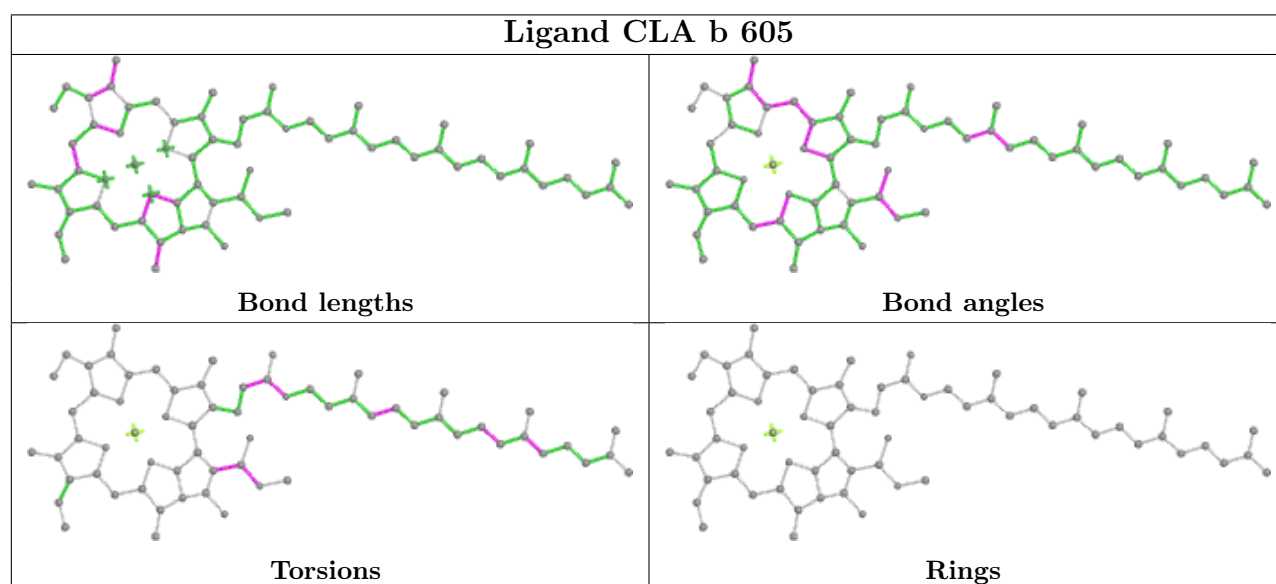
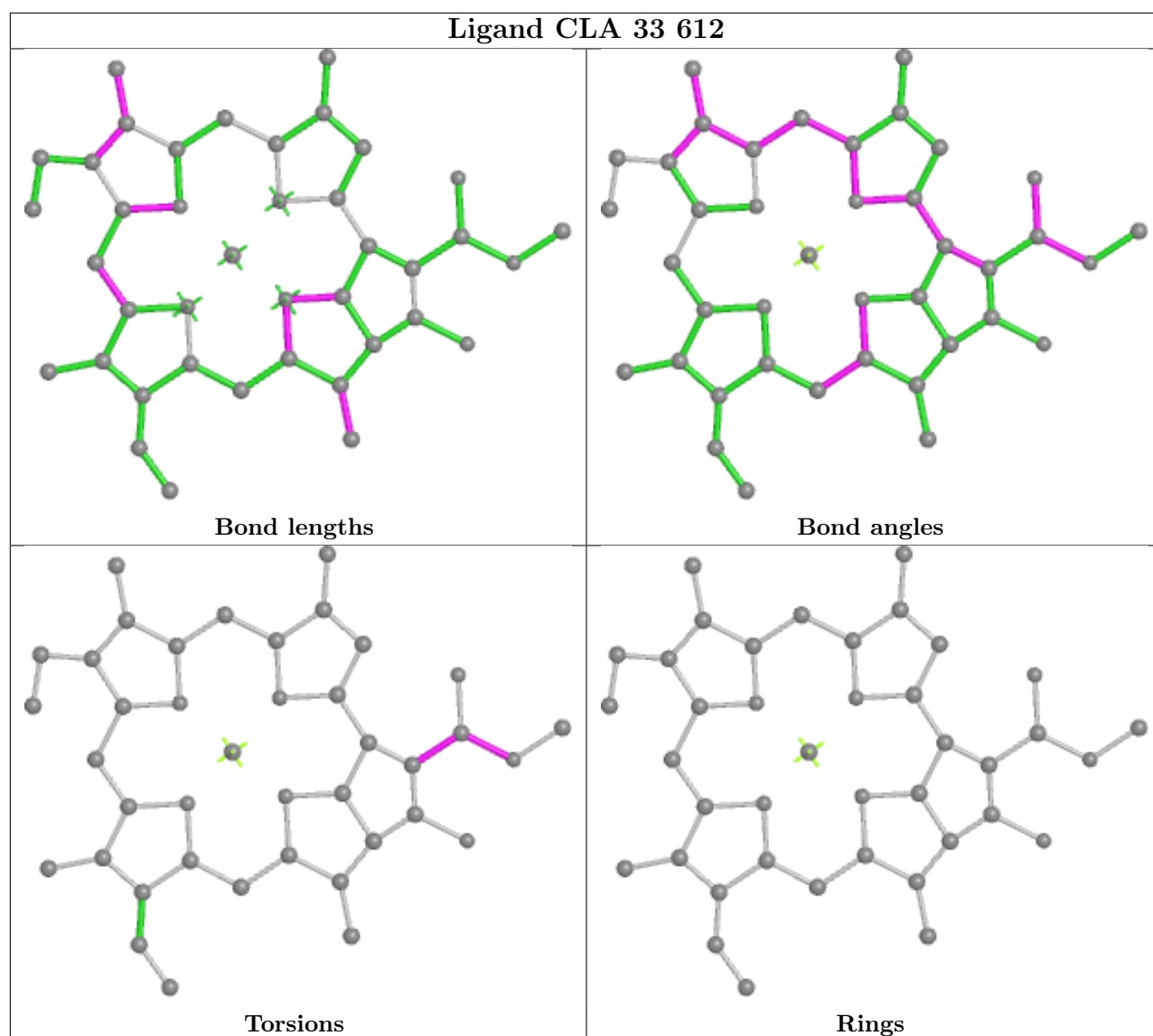
Bond angles

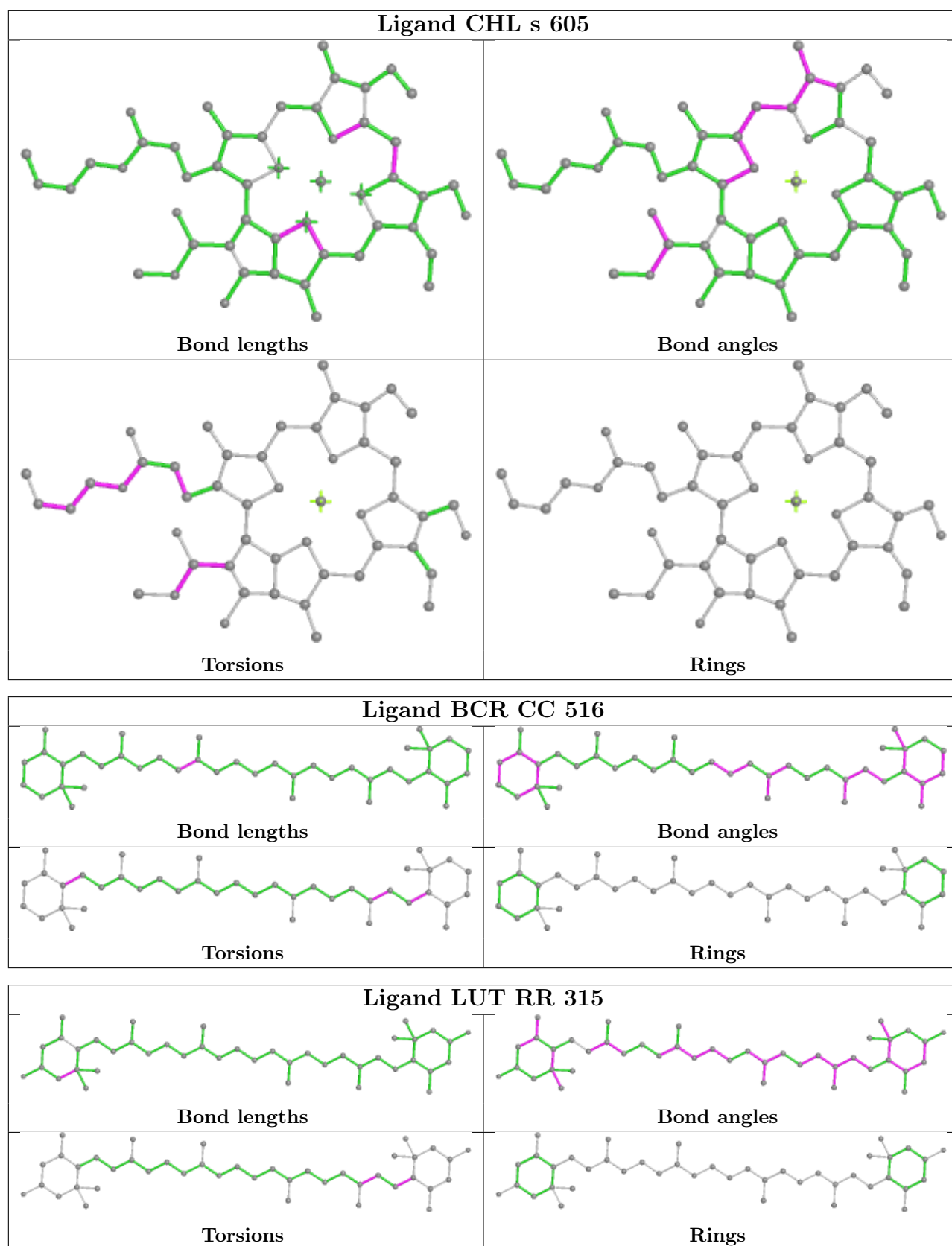


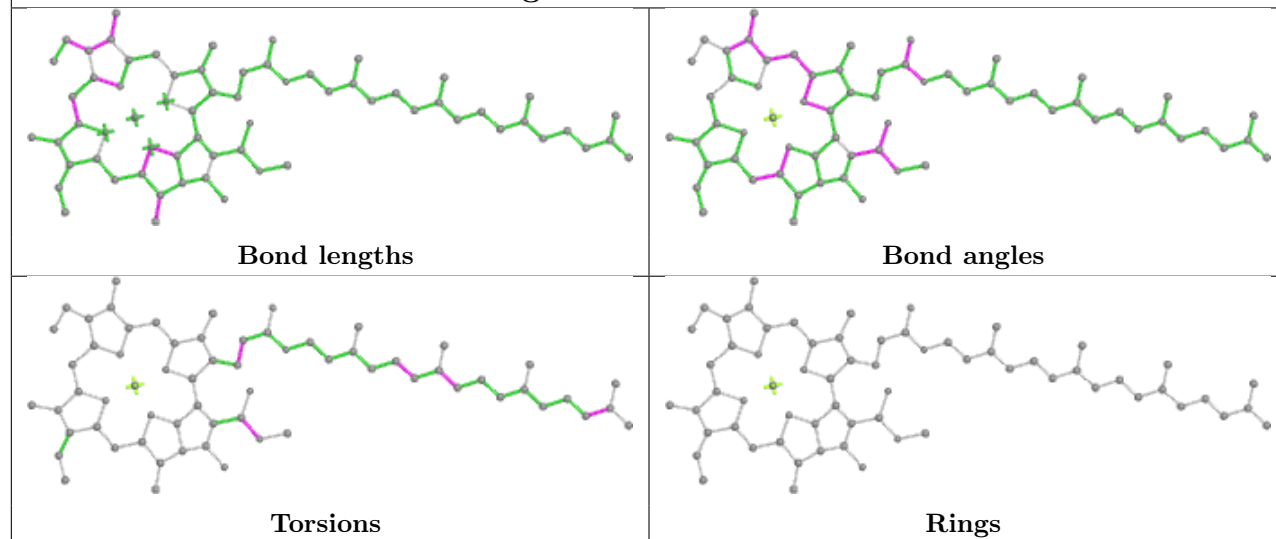
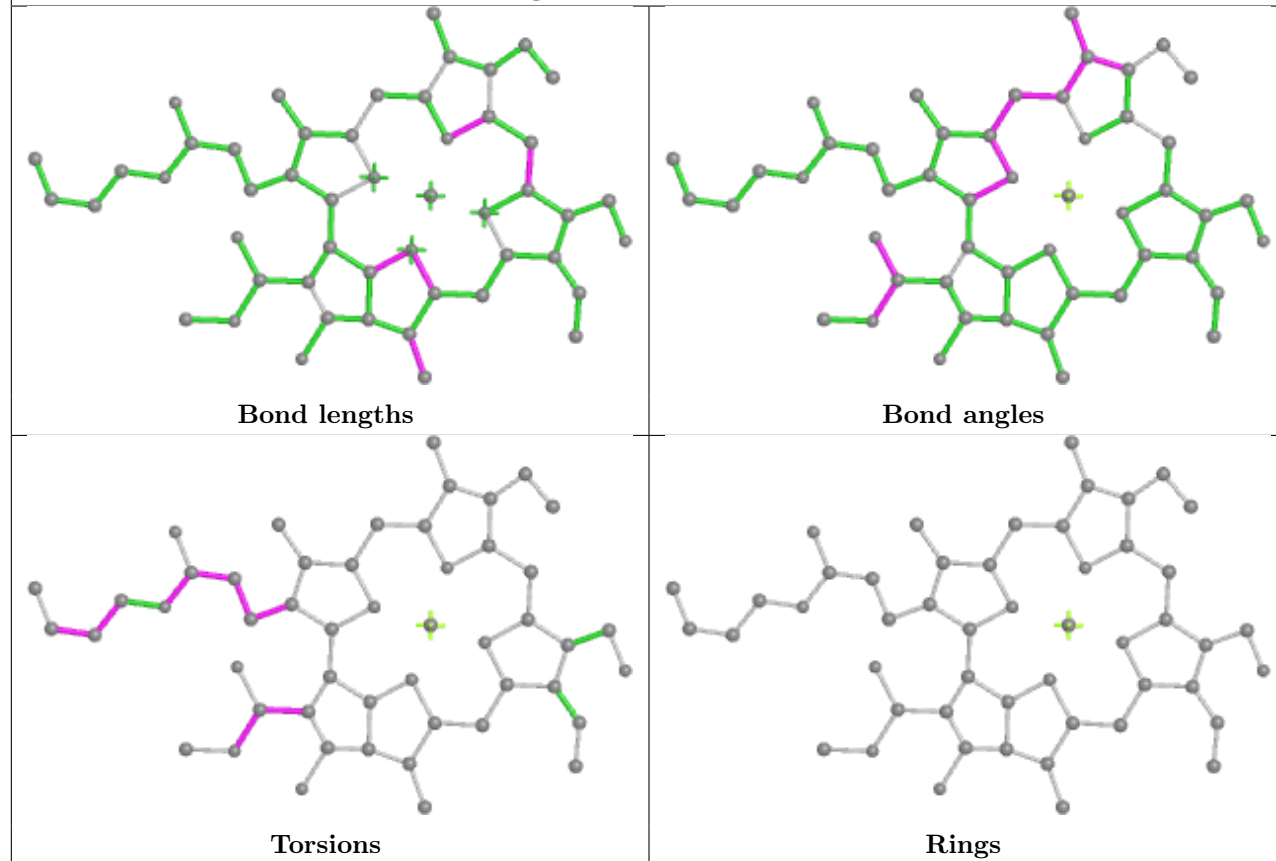
Torsions



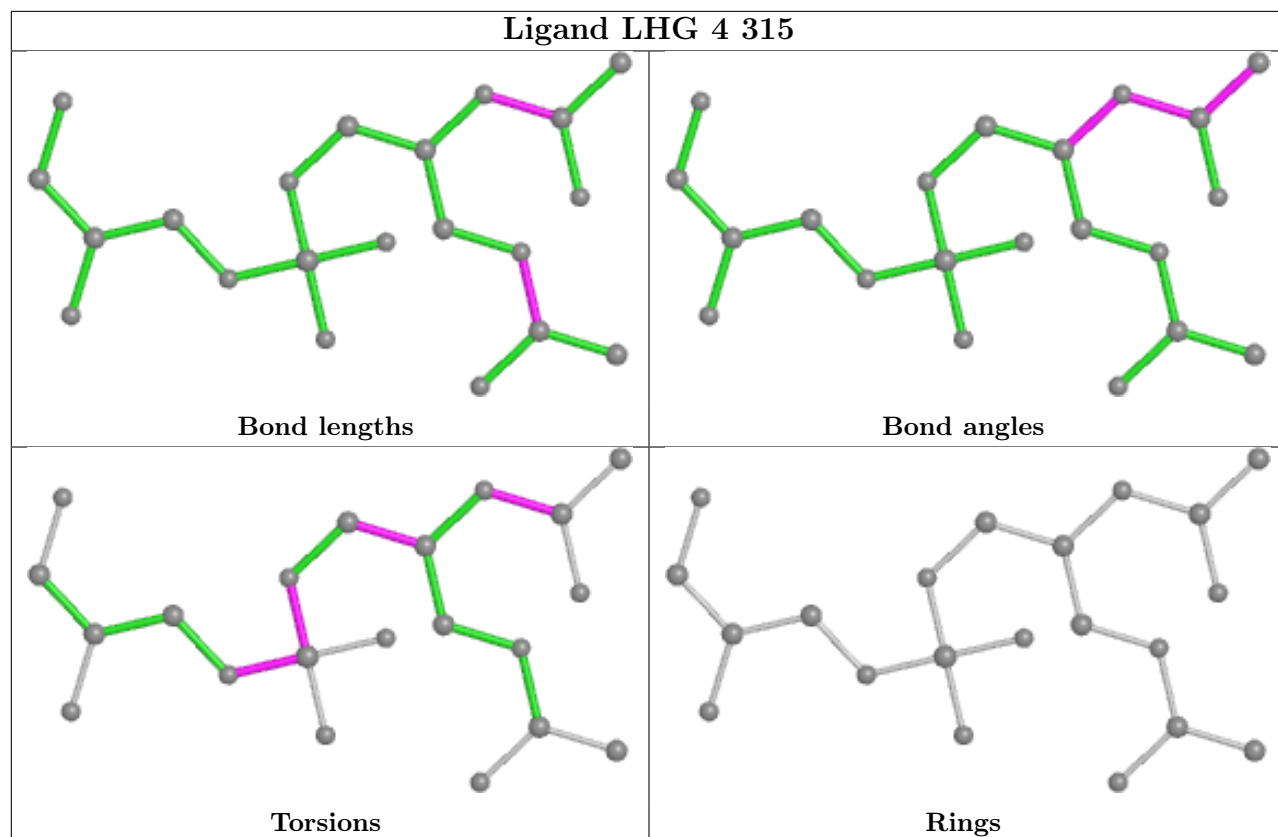
Rings



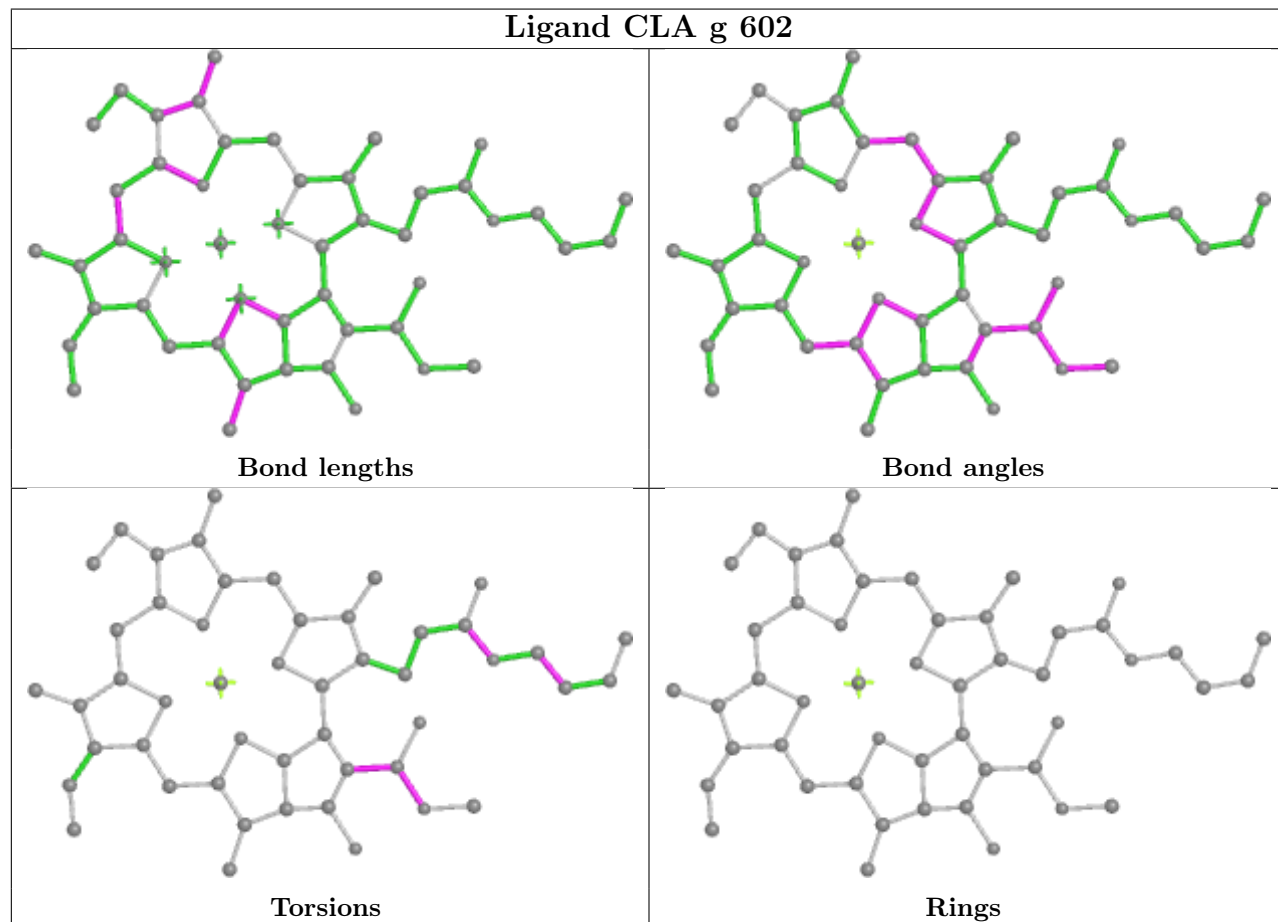


Ligand CLA Bb 606**Ligand CHL Ss 605**

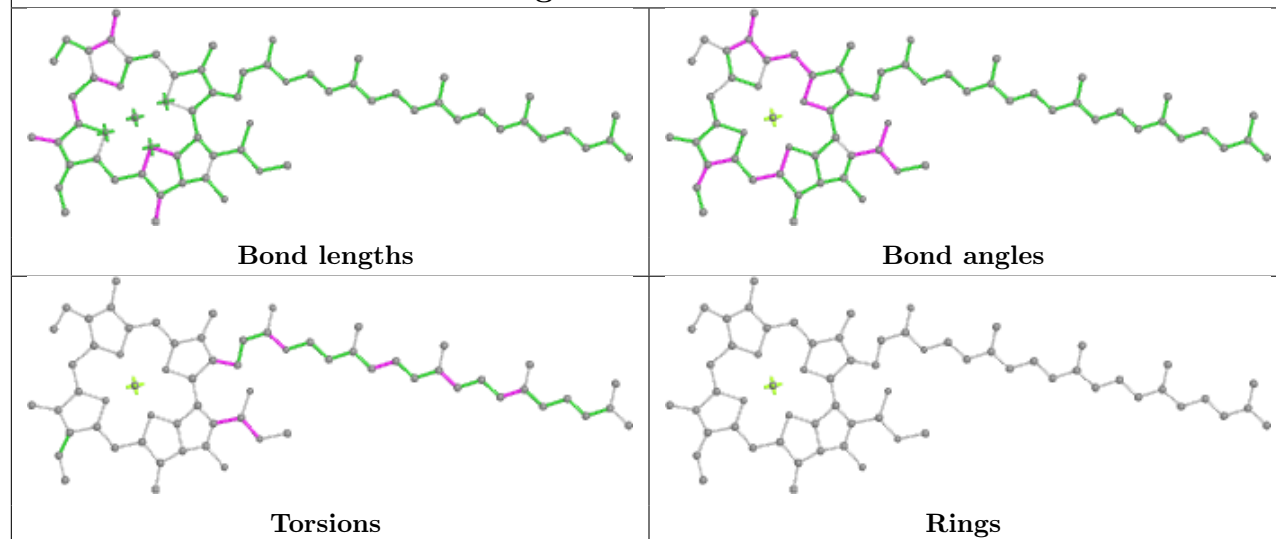
Ligand LHG 4 315



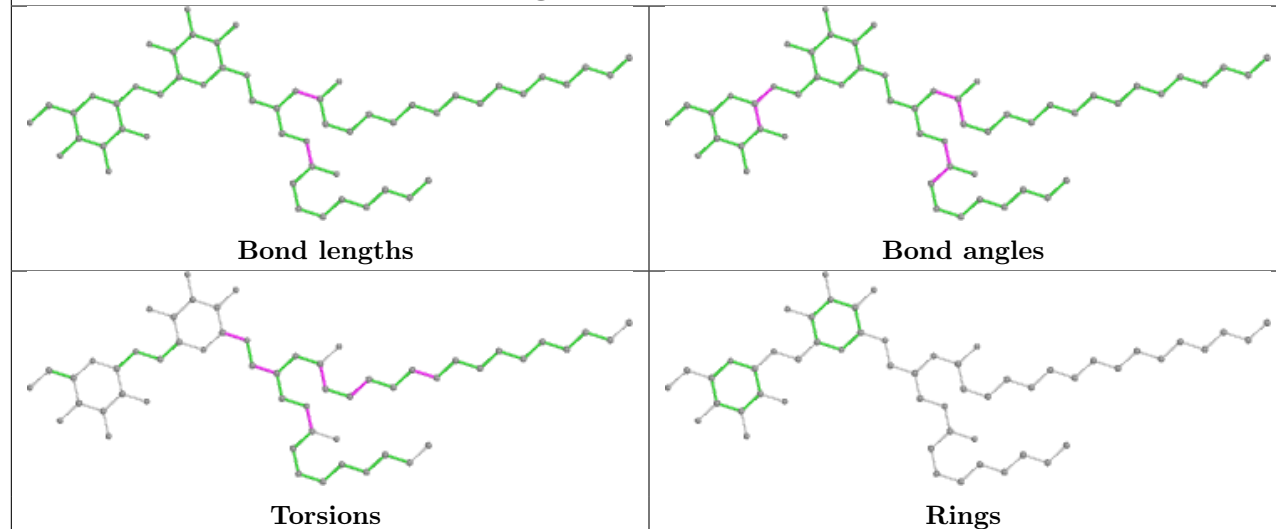
Ligand CLA g 602



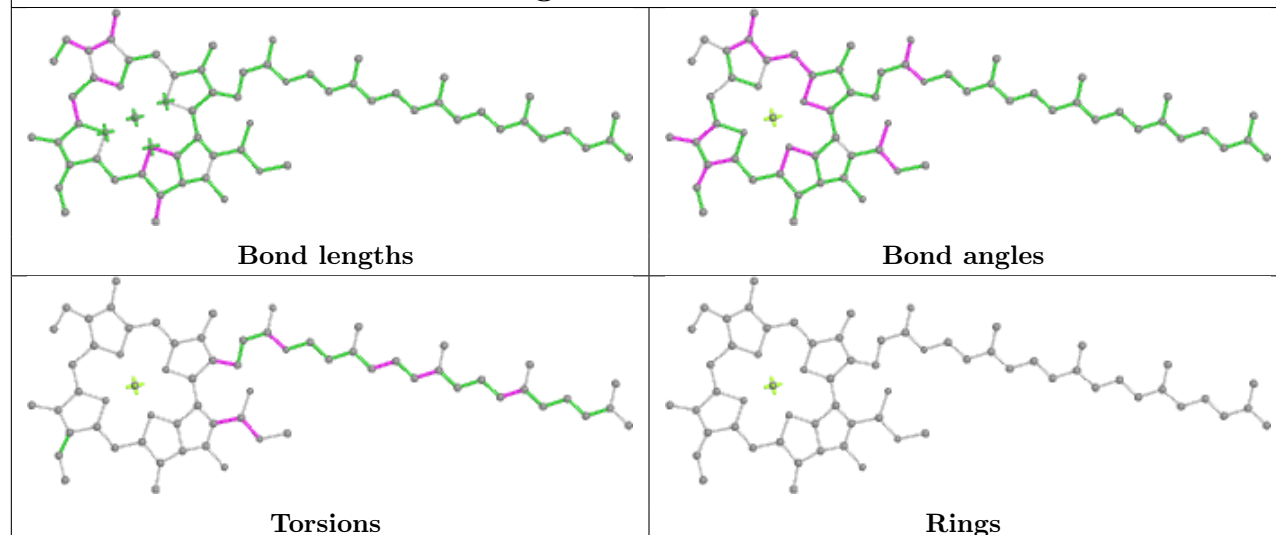
Ligand CLA d 401

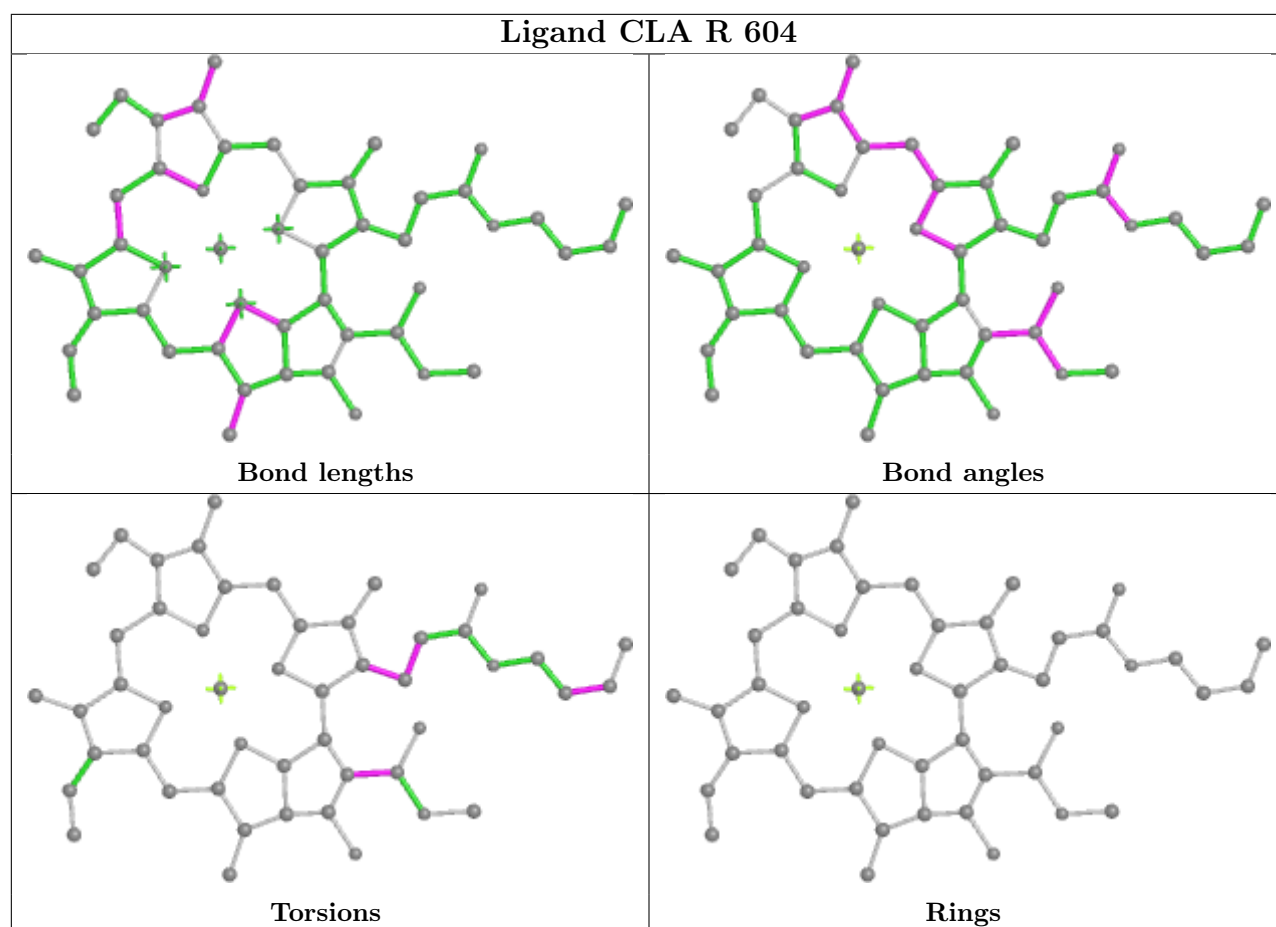


Ligand DGD a 415

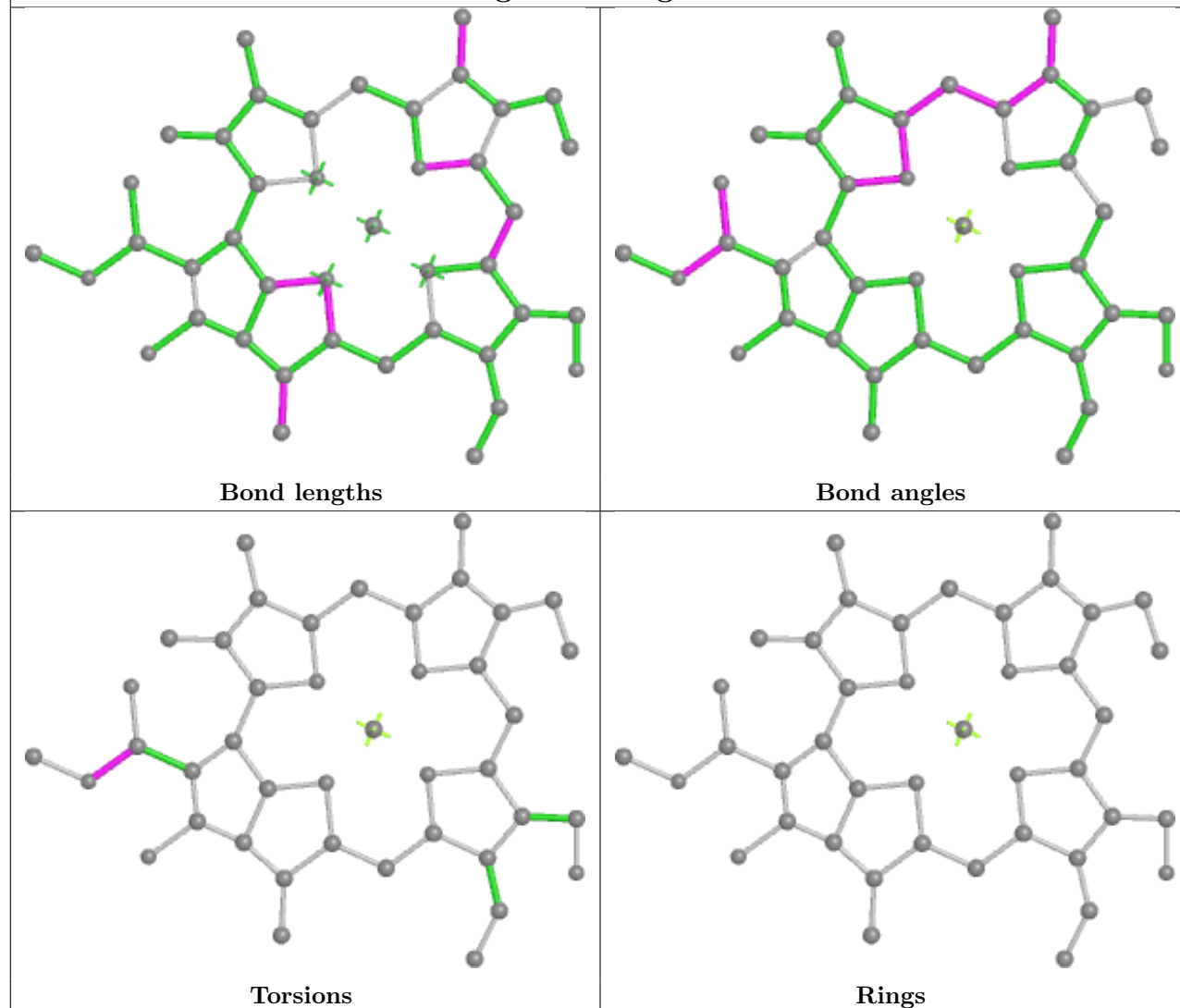


Ligand CLA n 610

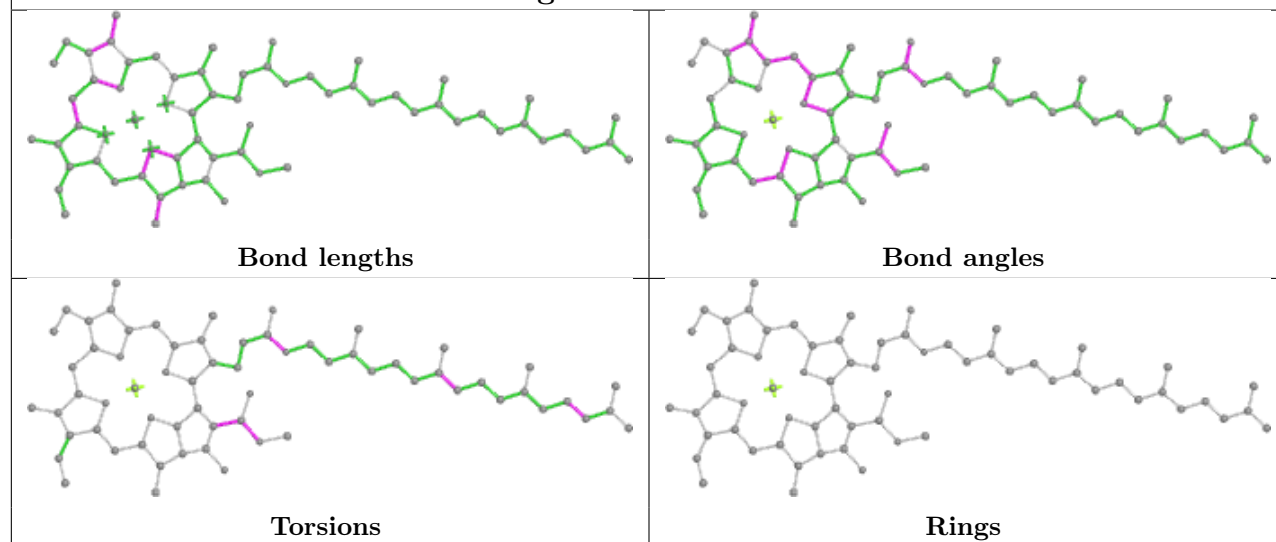




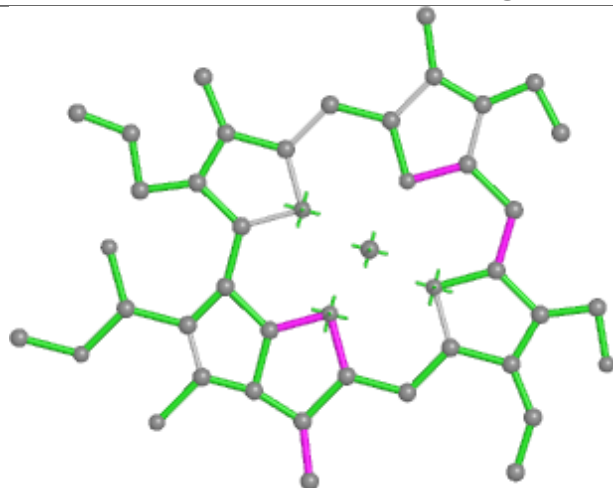
Ligand CHL g 608



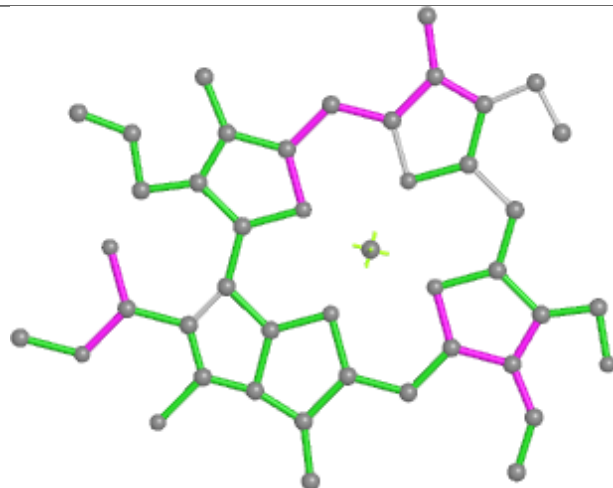
Ligand CLA c 512



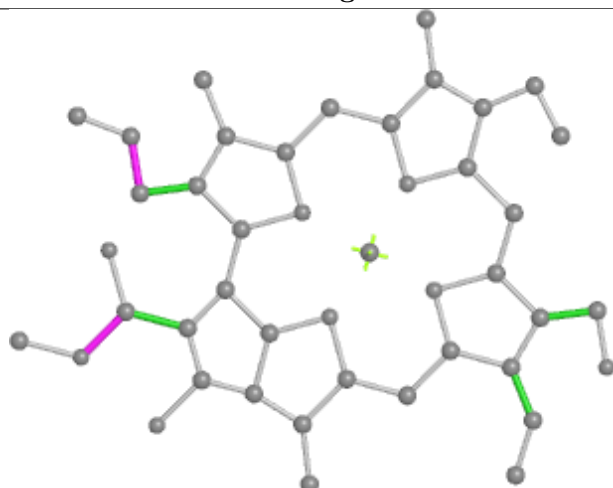
Ligand CHL NN 601



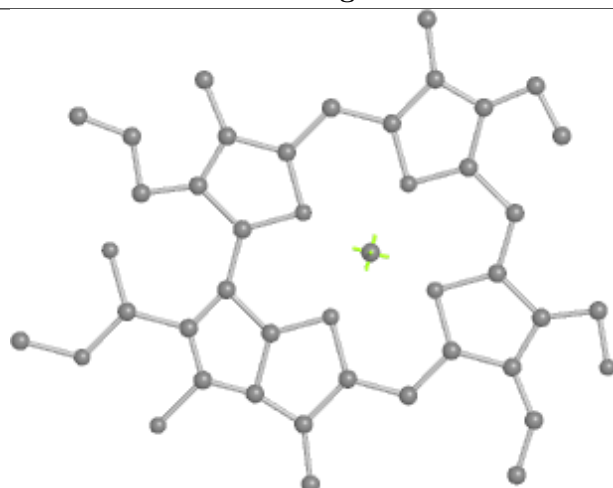
Bond lengths



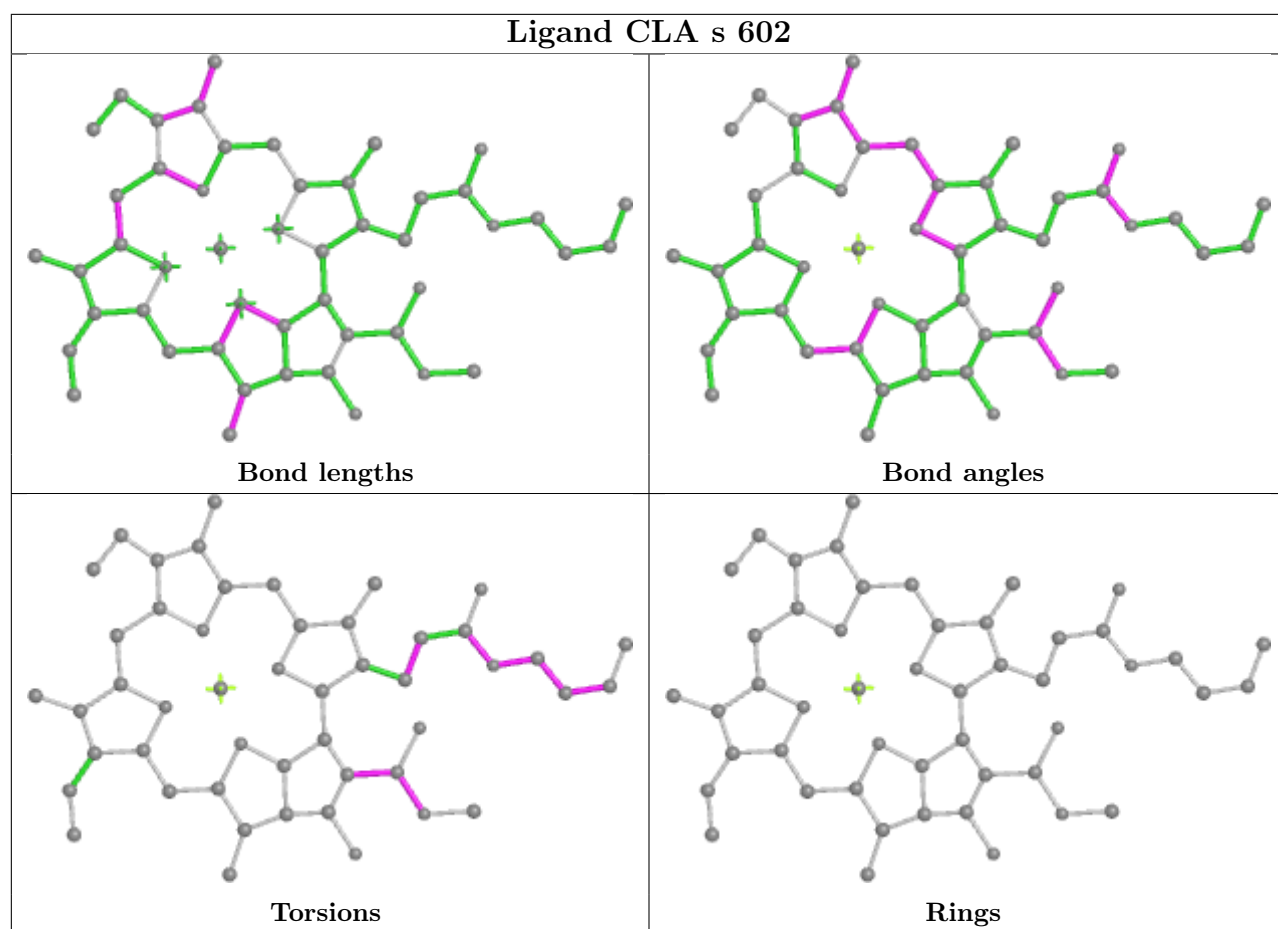
Bond angles



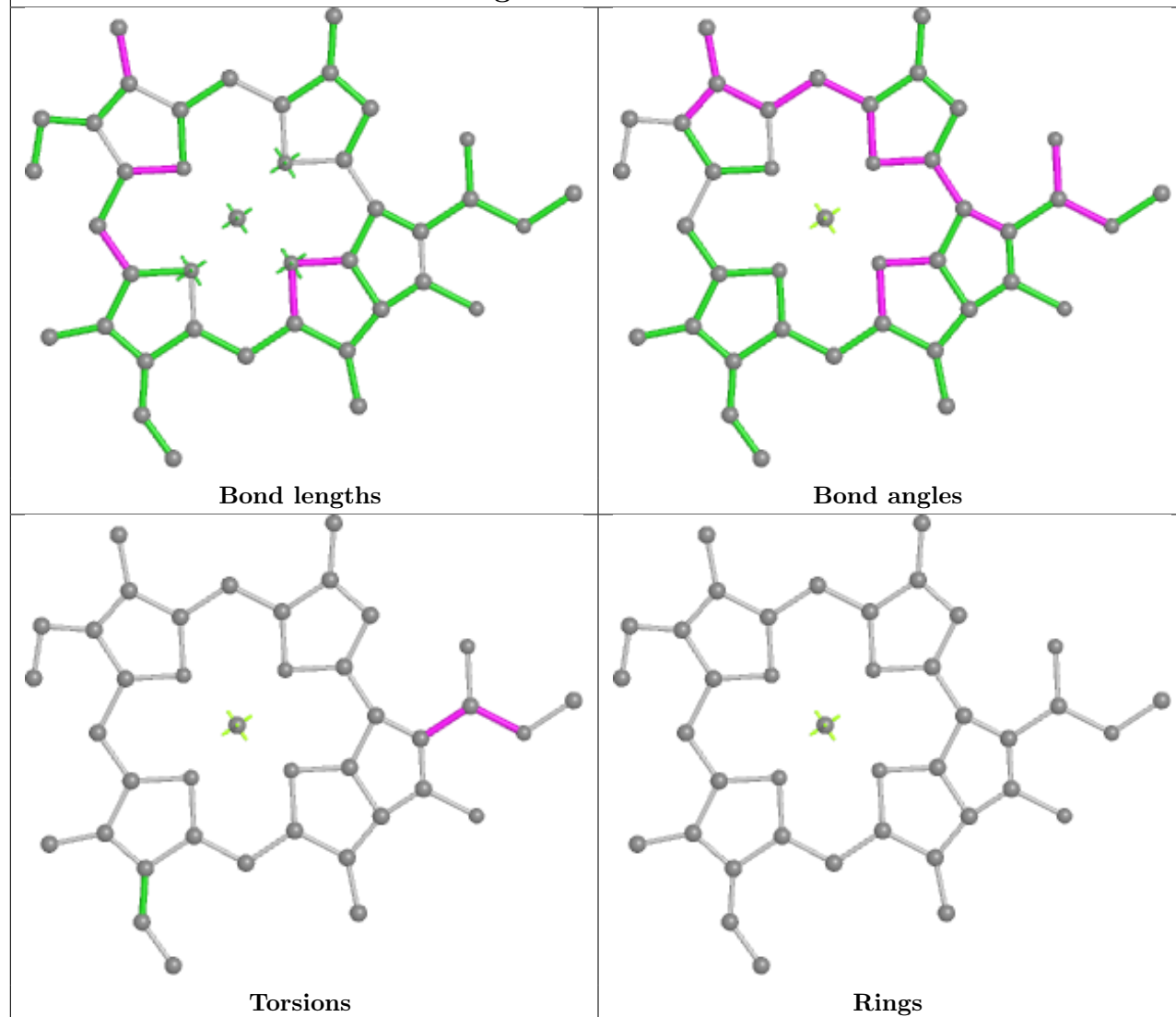
Torsions

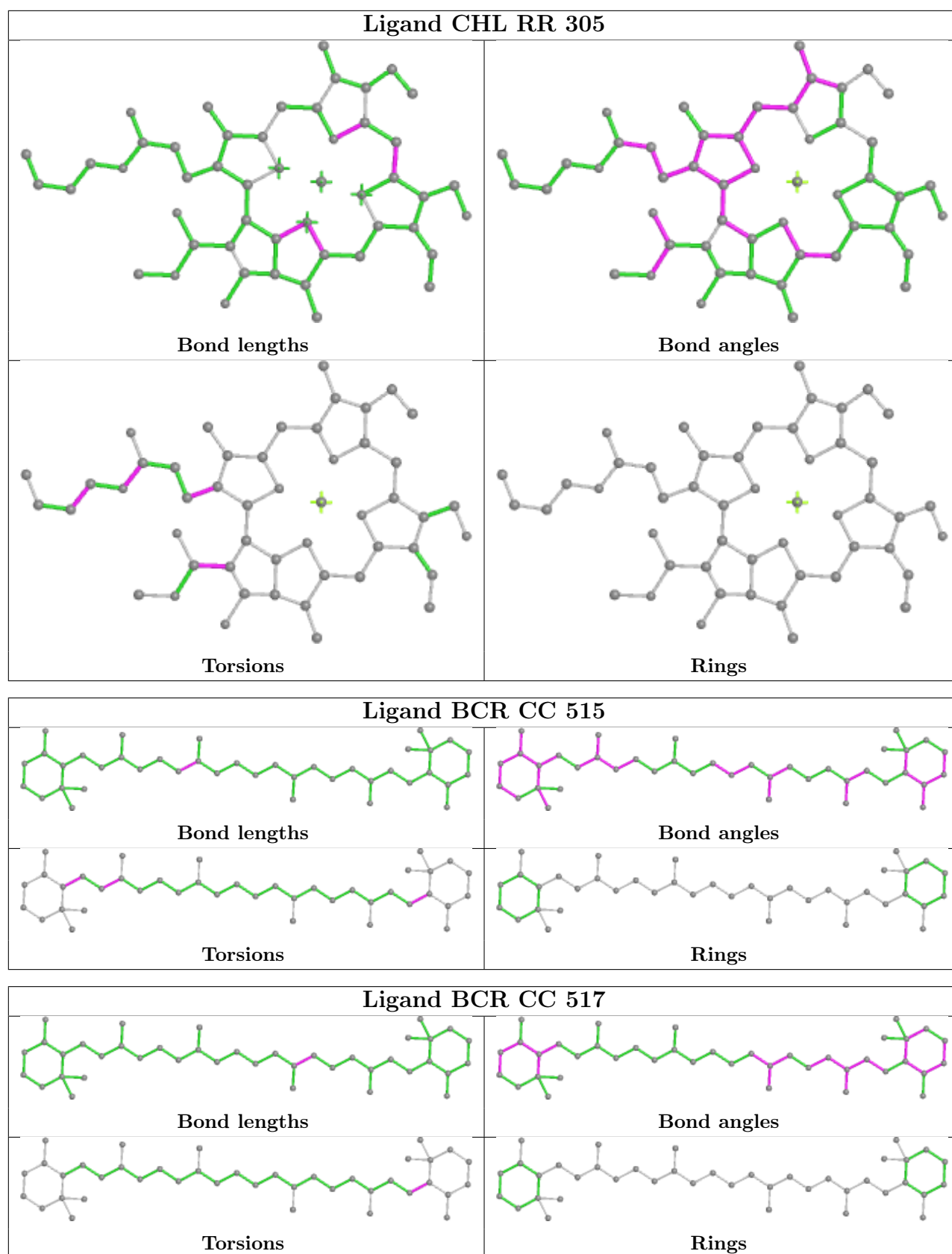


Rings

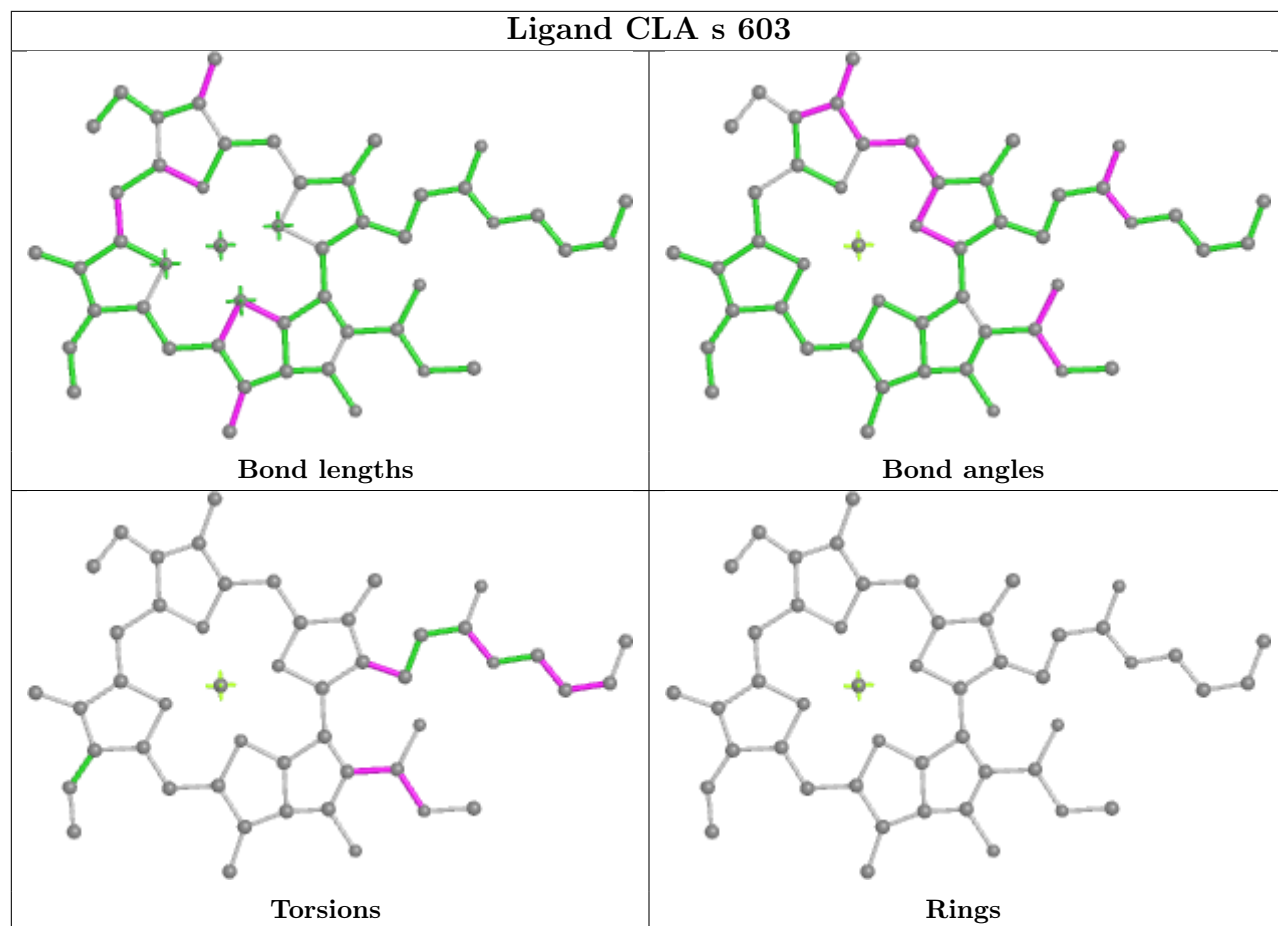


Ligand CLA 3 609

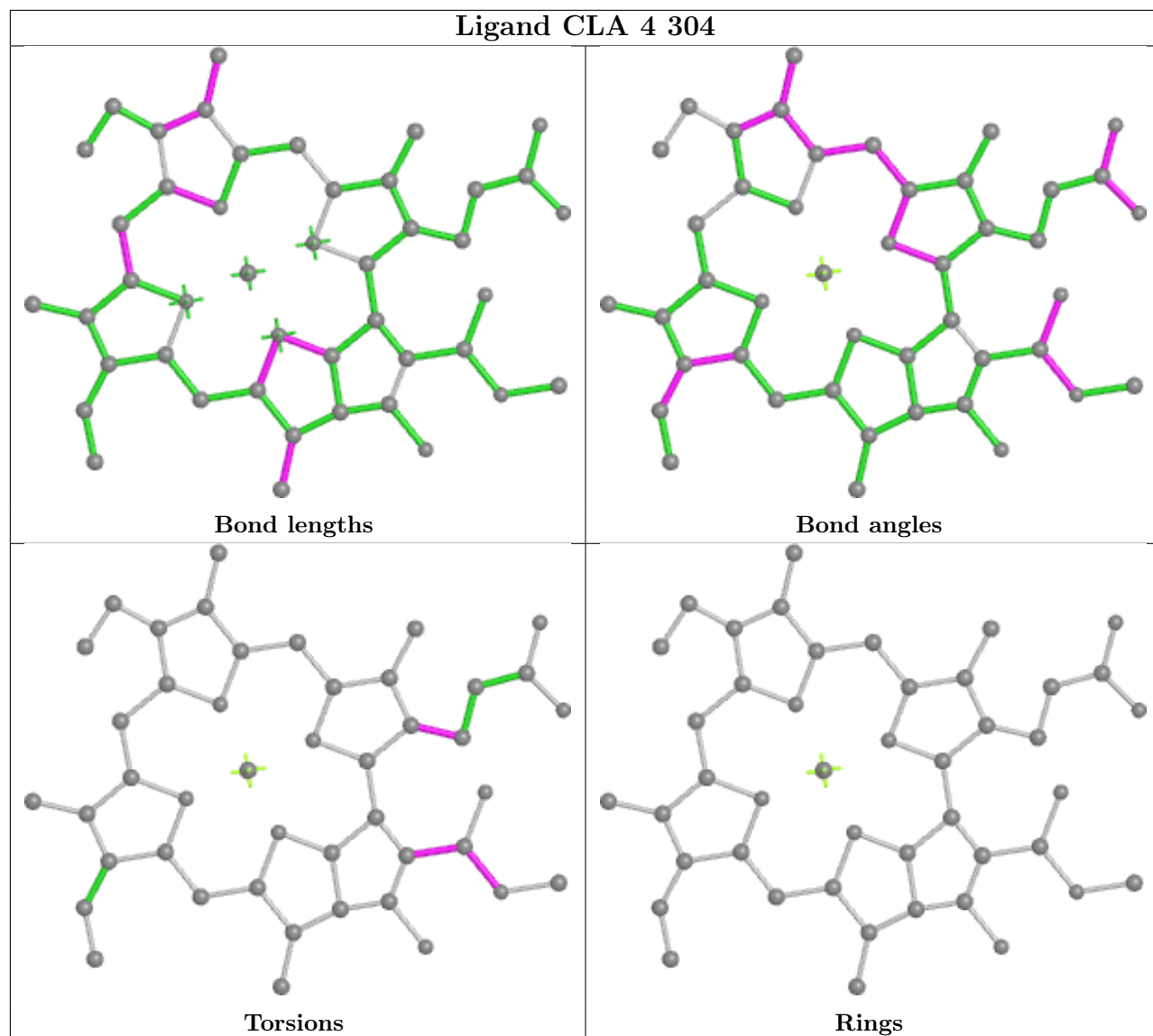


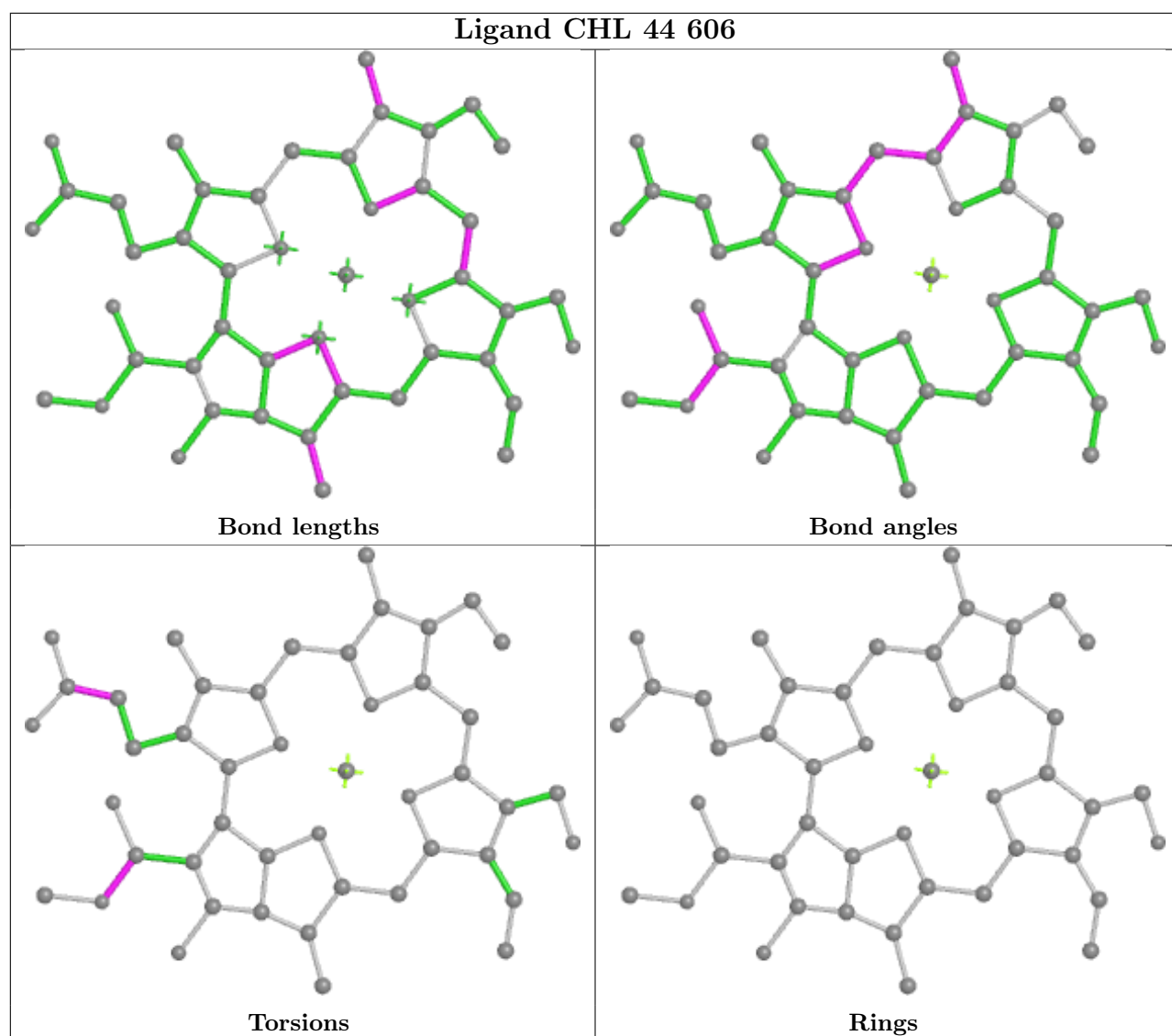


Ligand CLA s 603

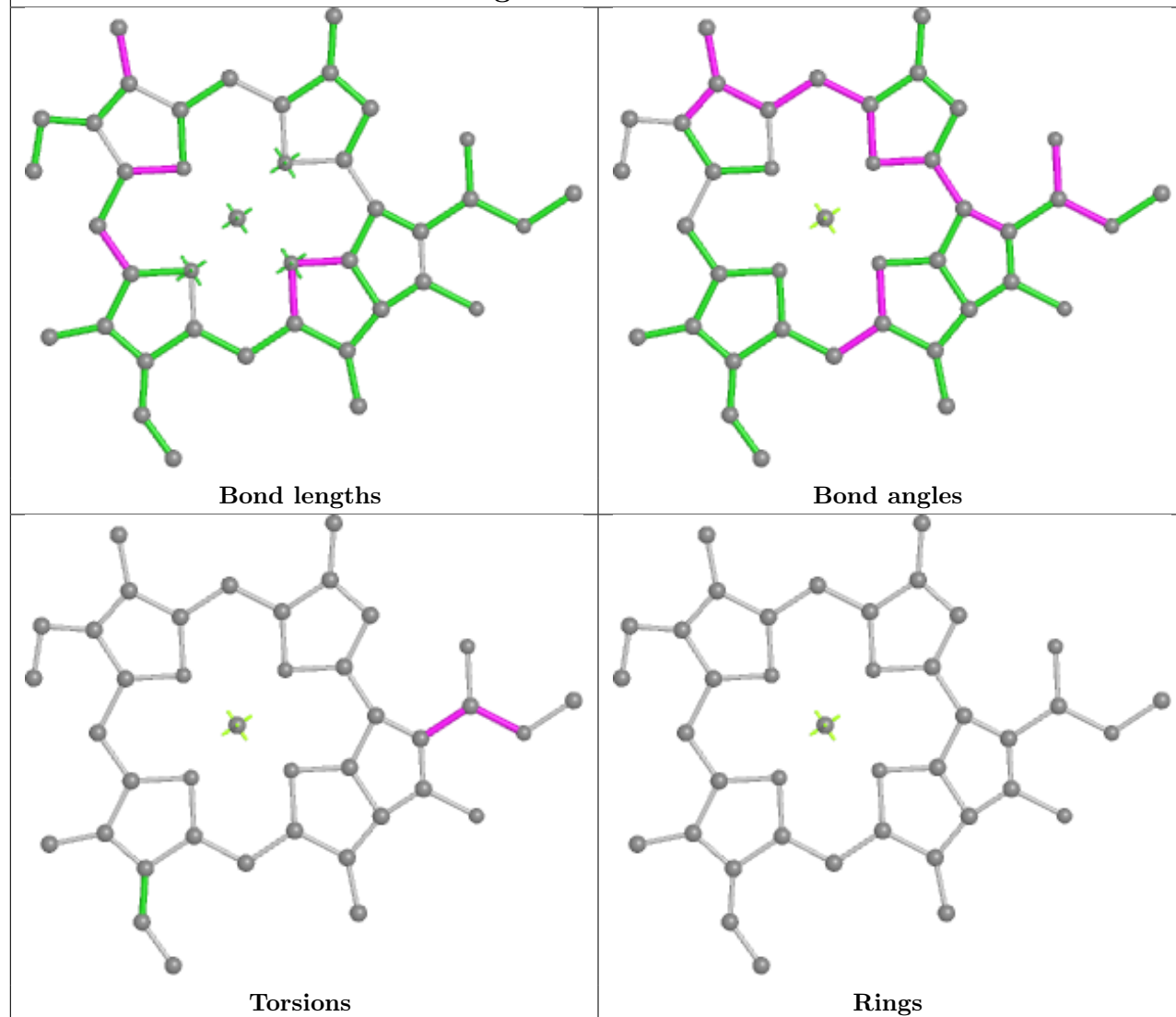


Ligand CLA 4 304

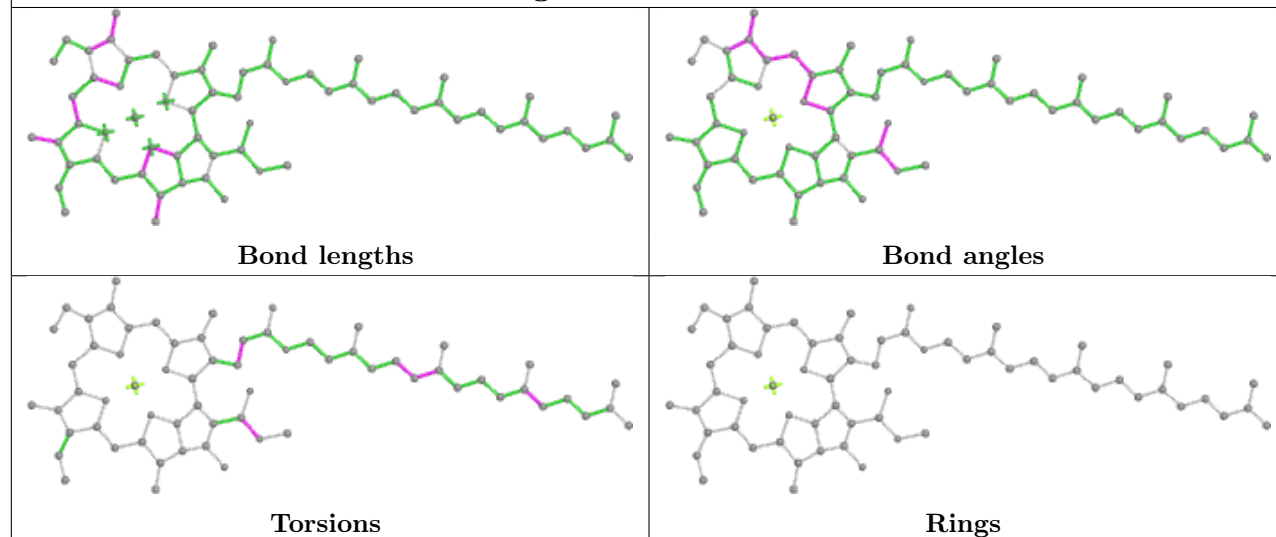


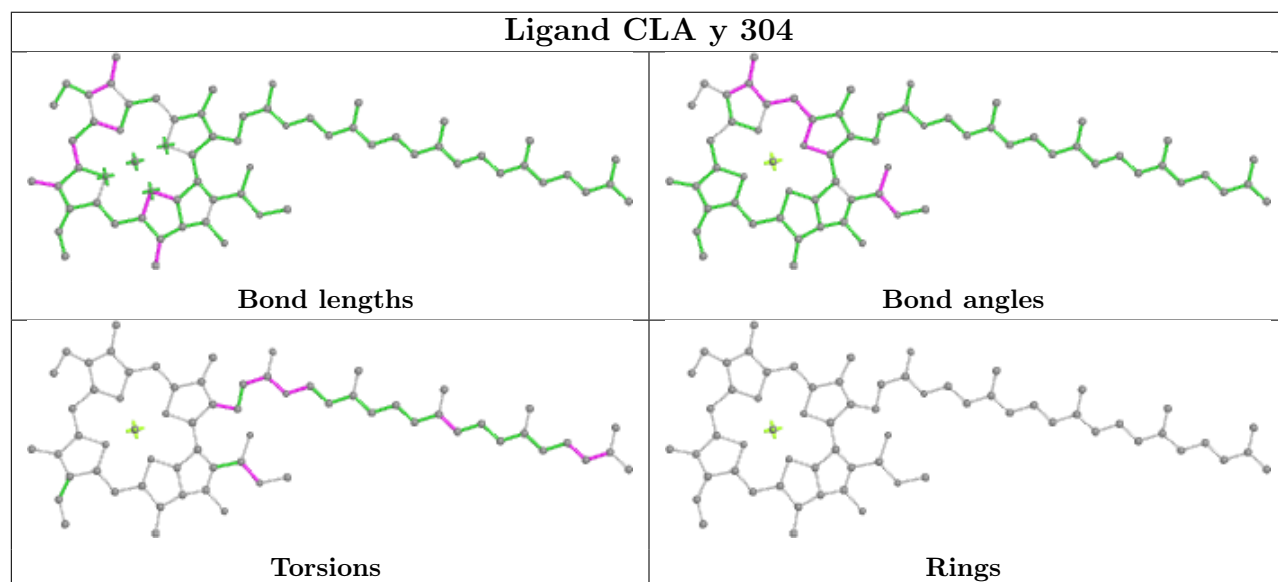
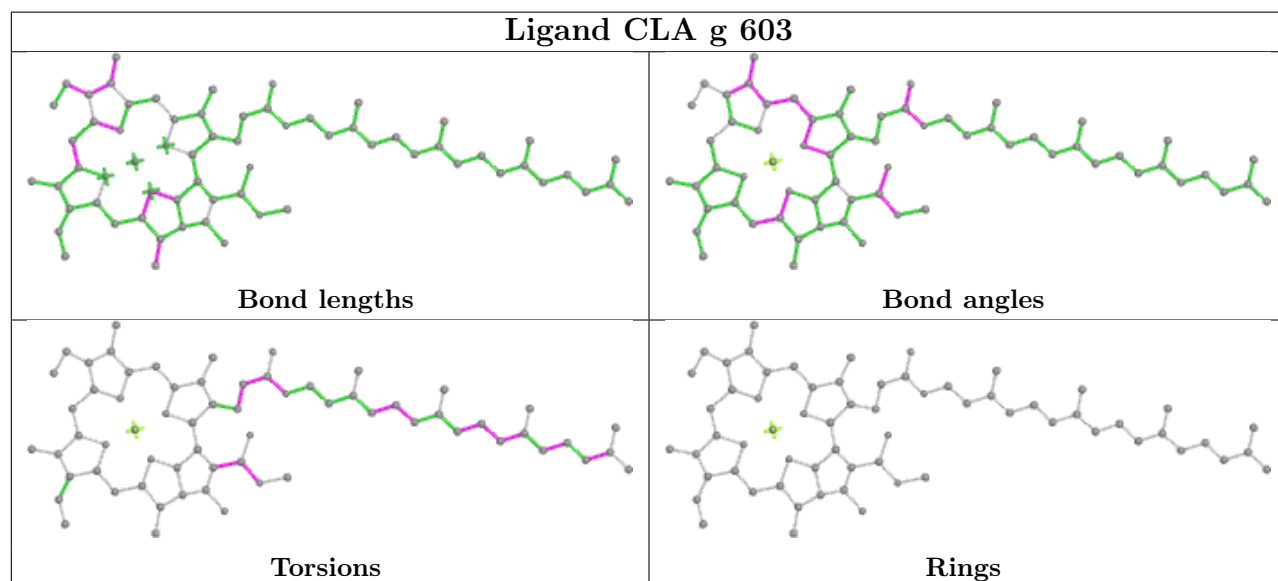
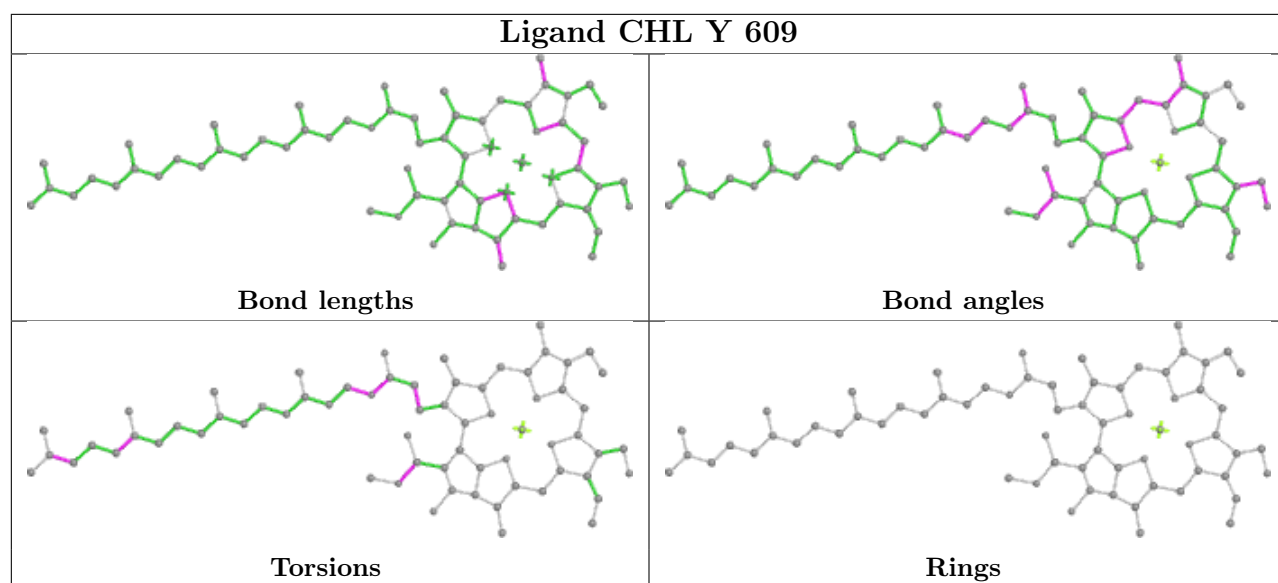


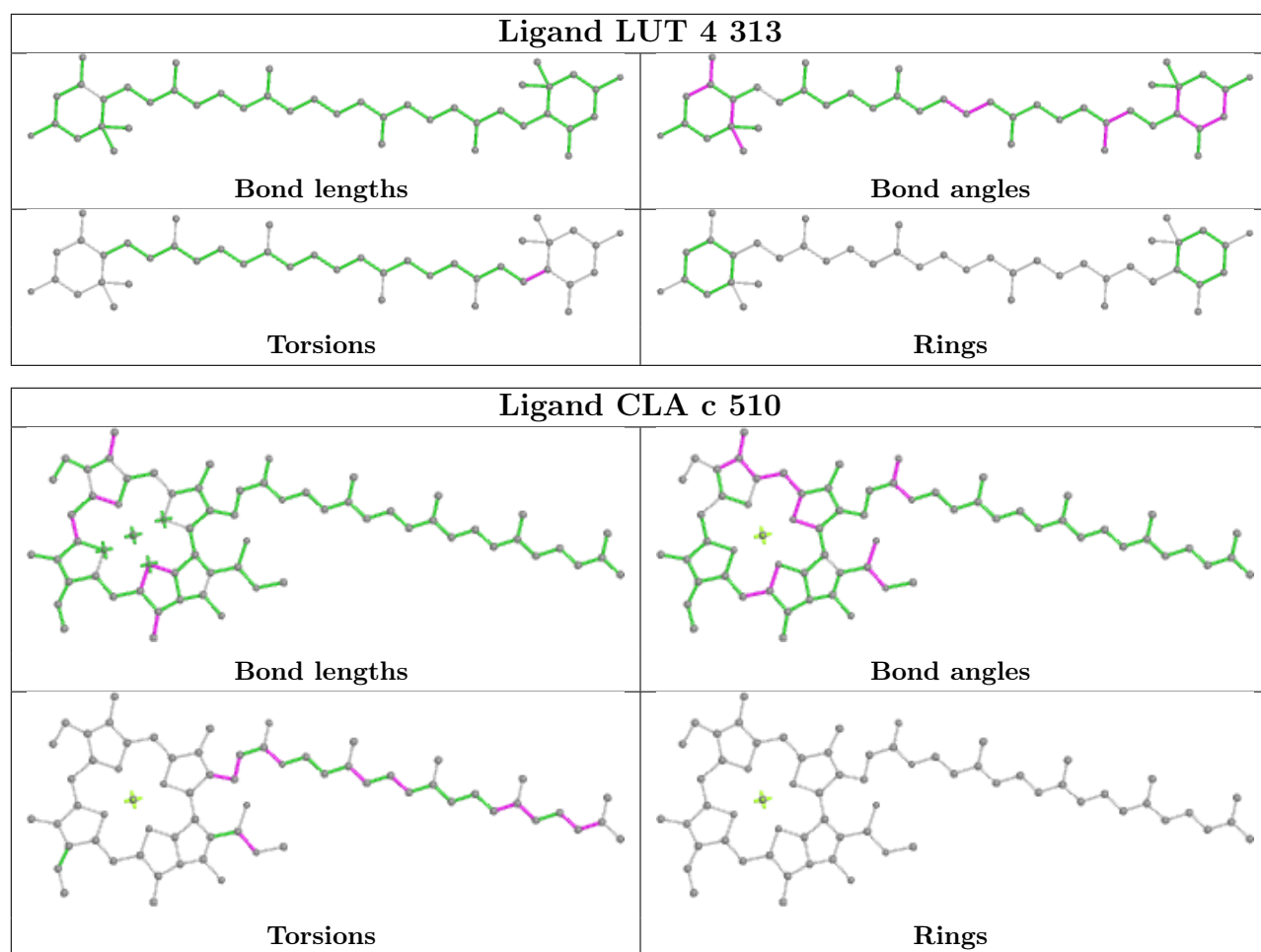
Ligand CLA 2 611

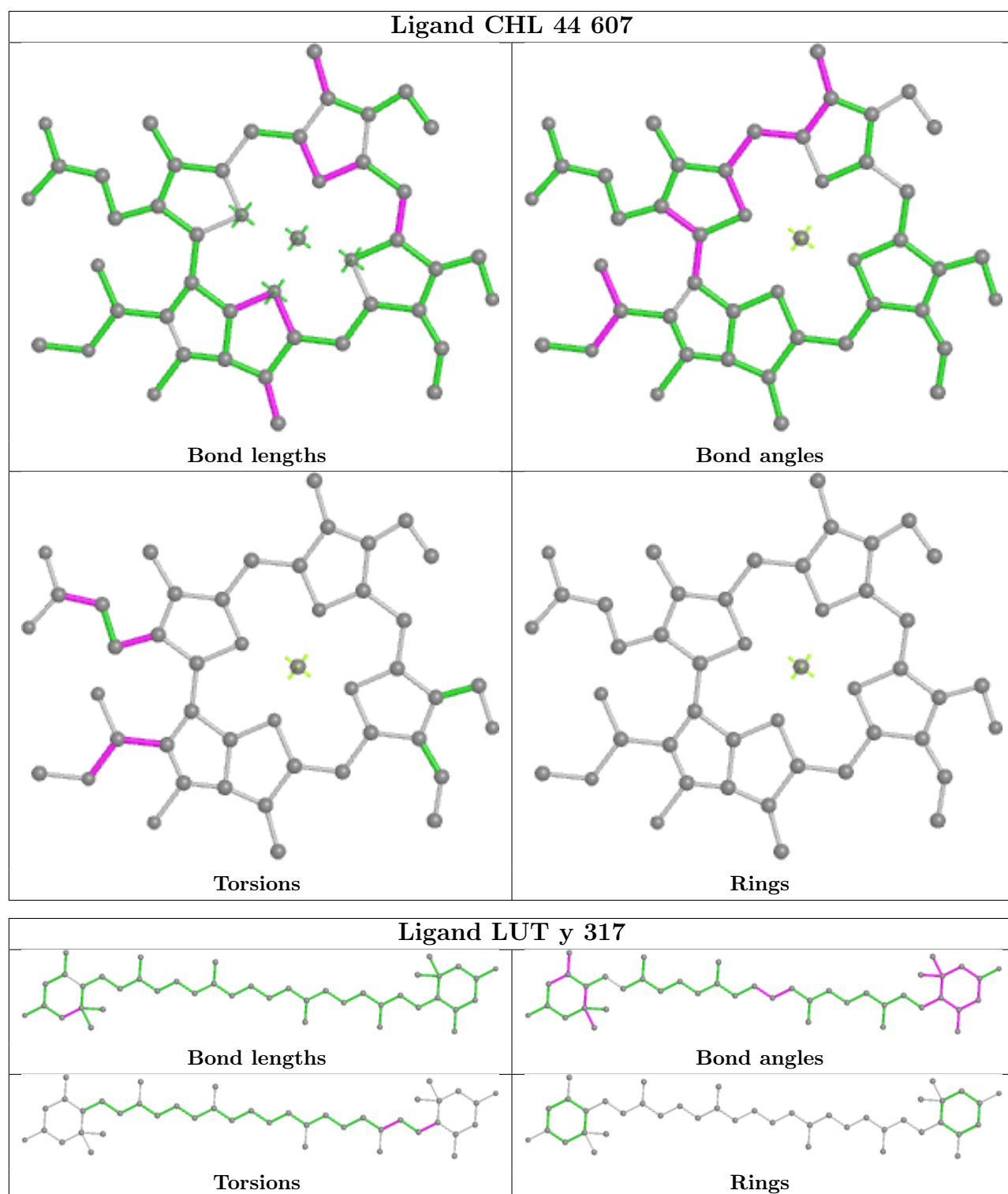


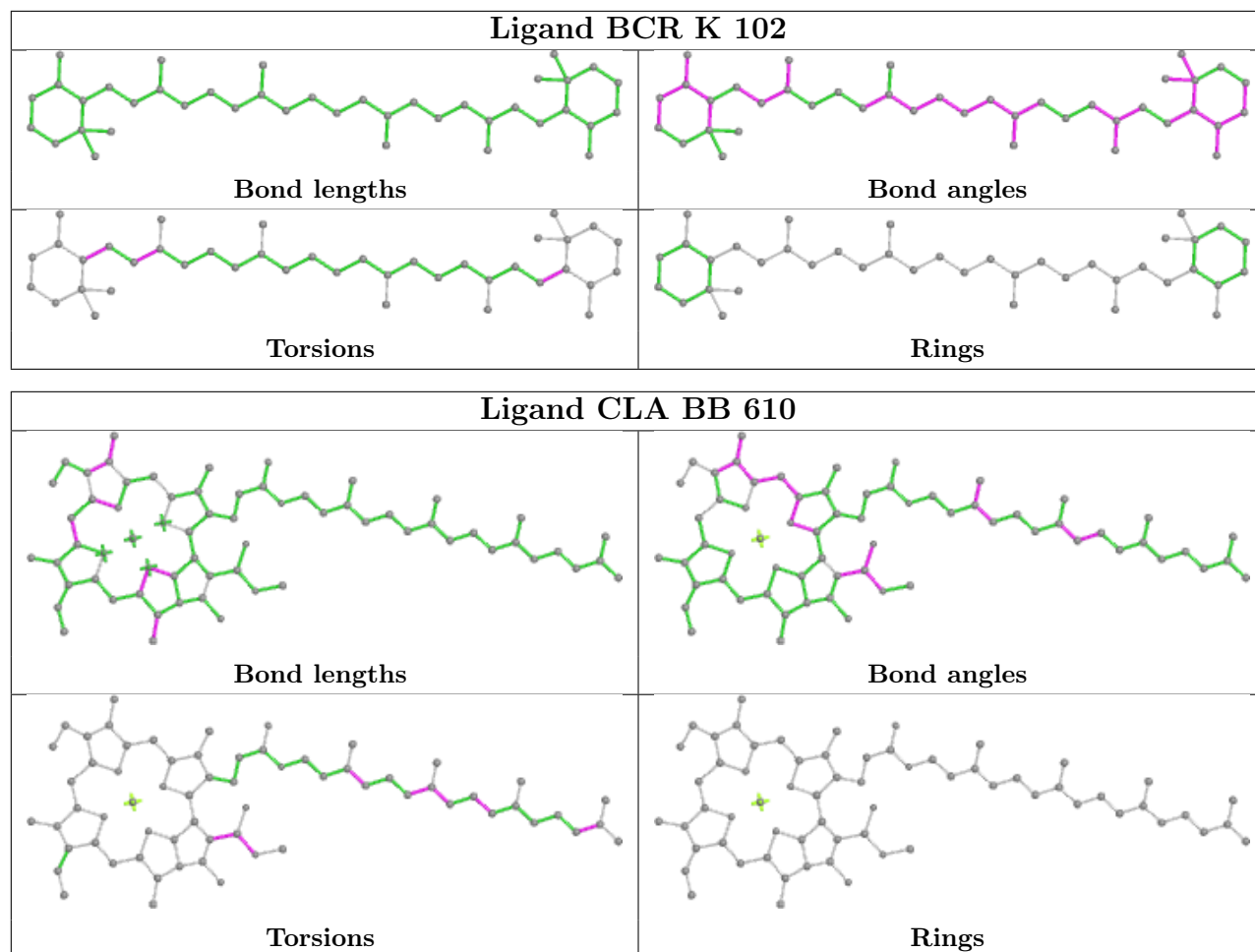
Ligand CLA B 607

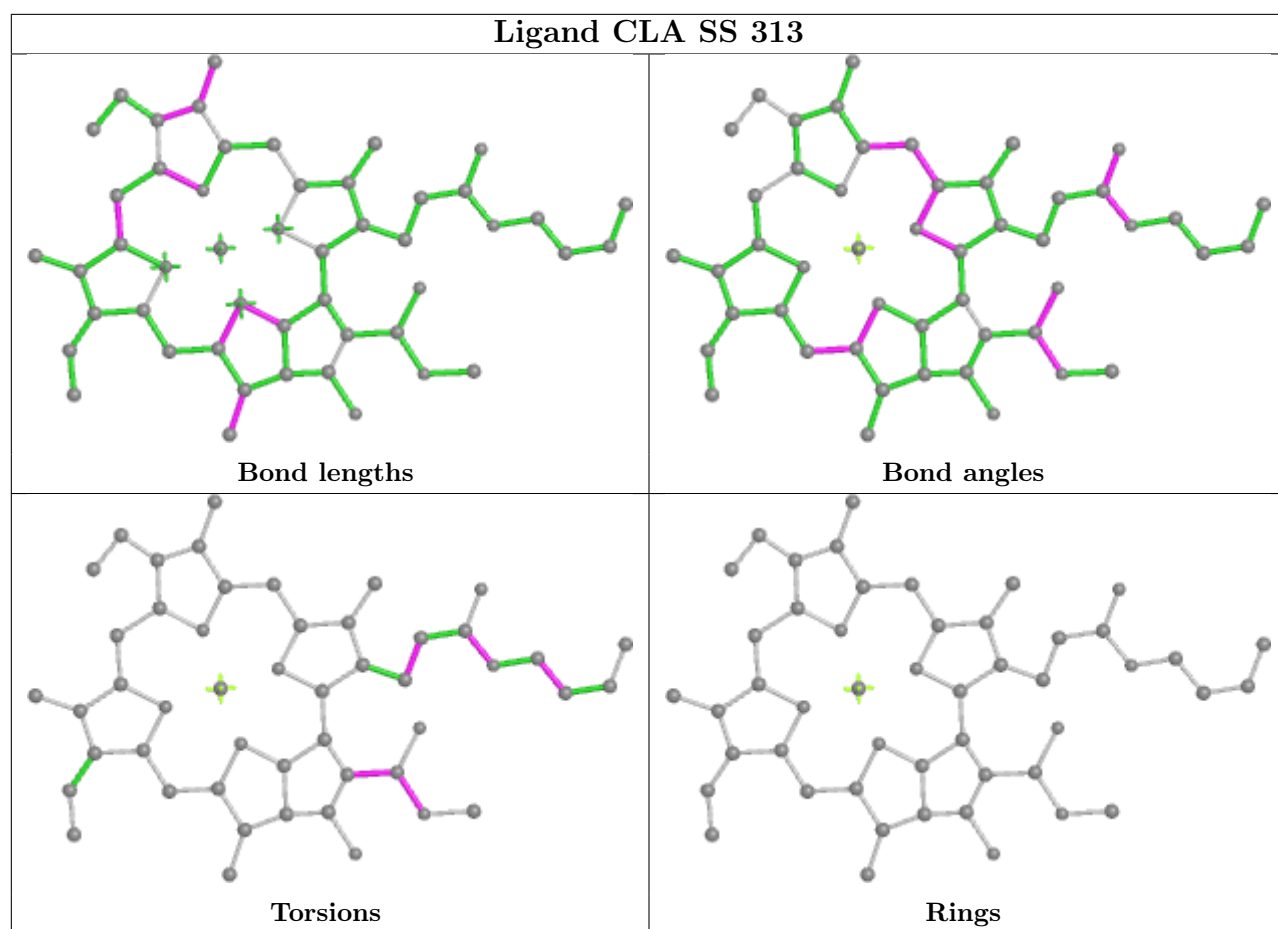




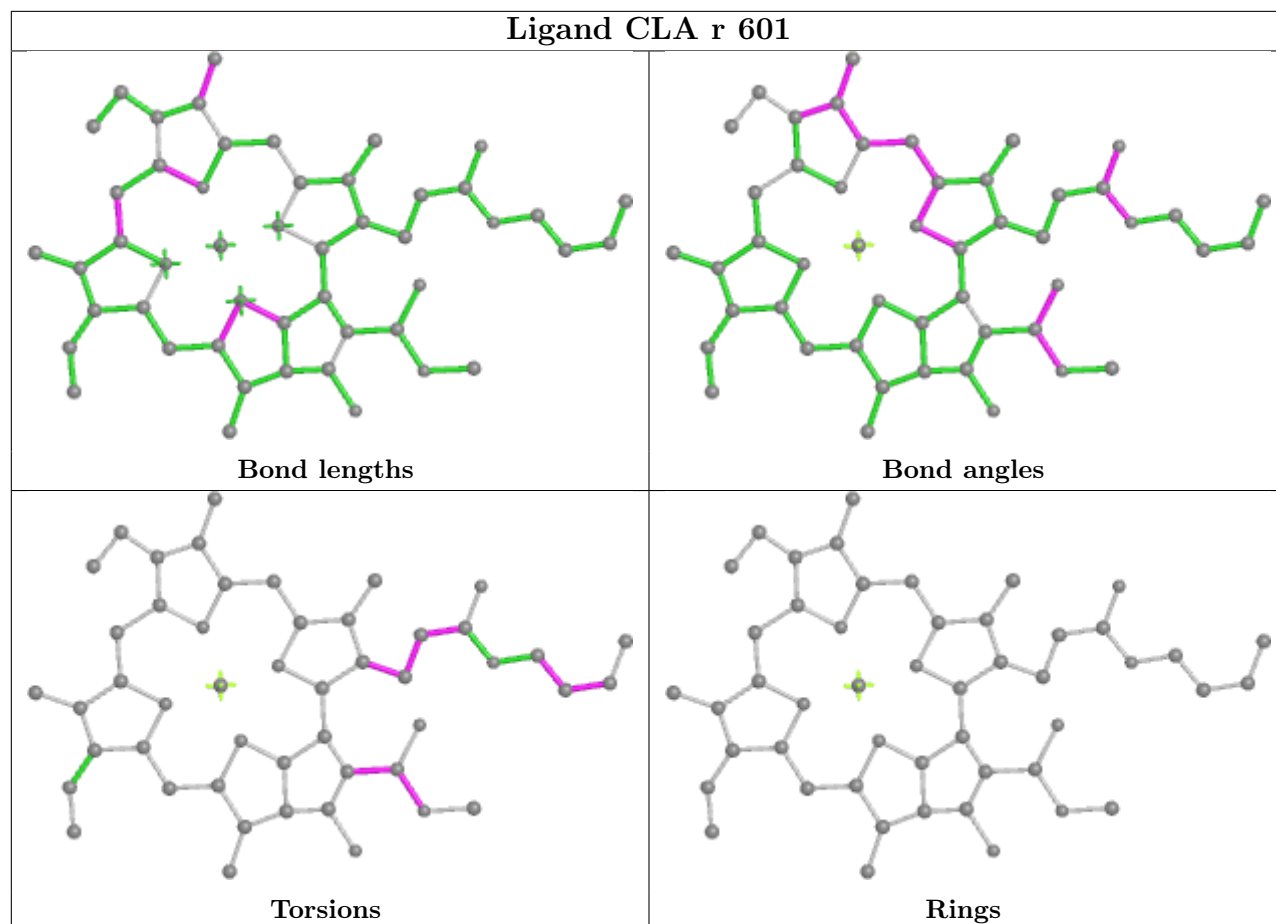


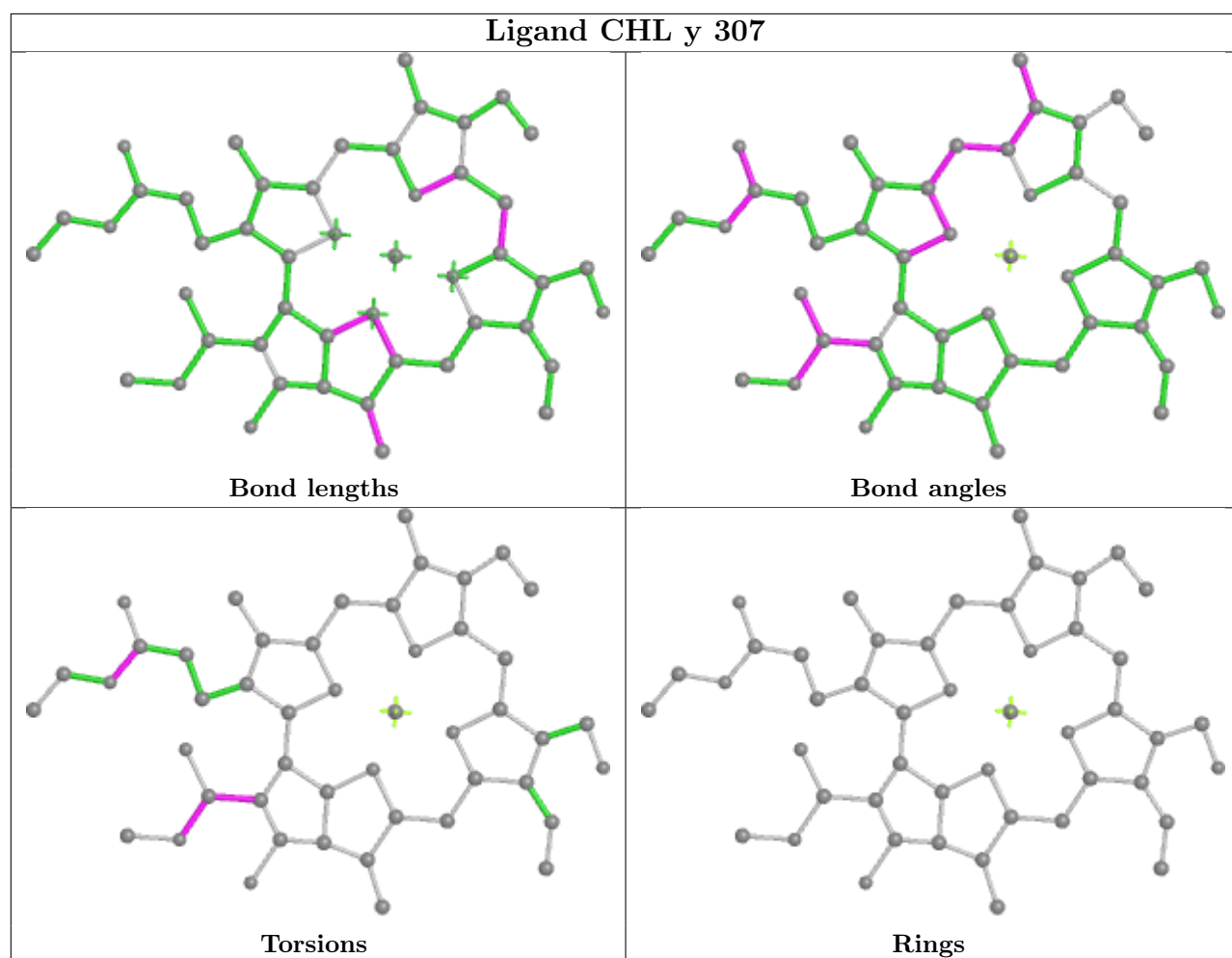


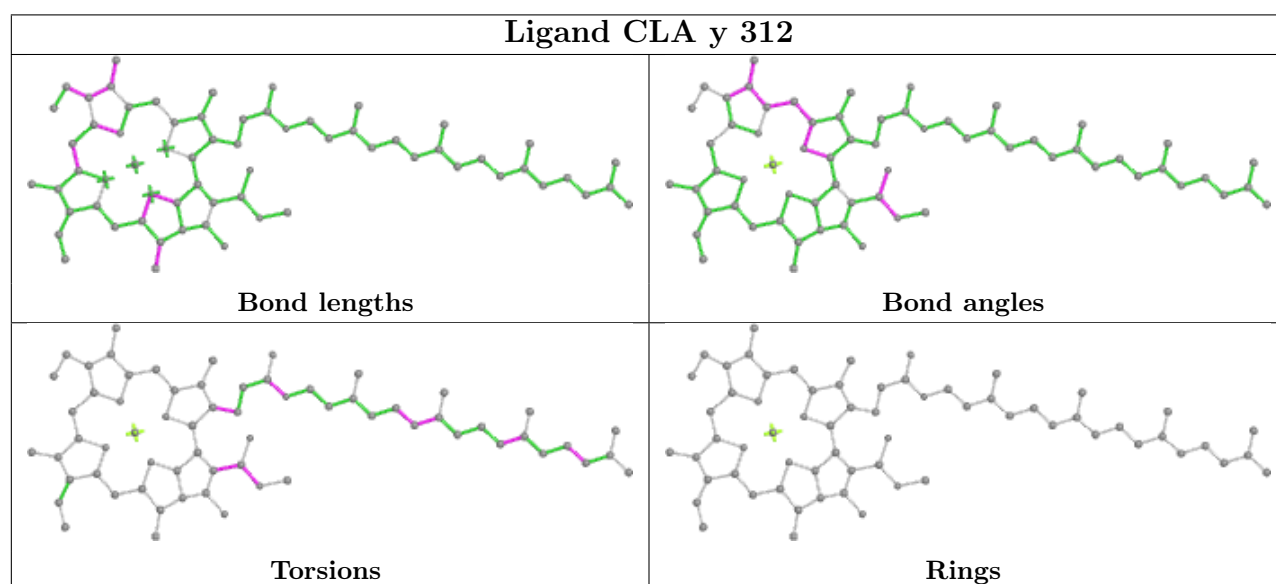
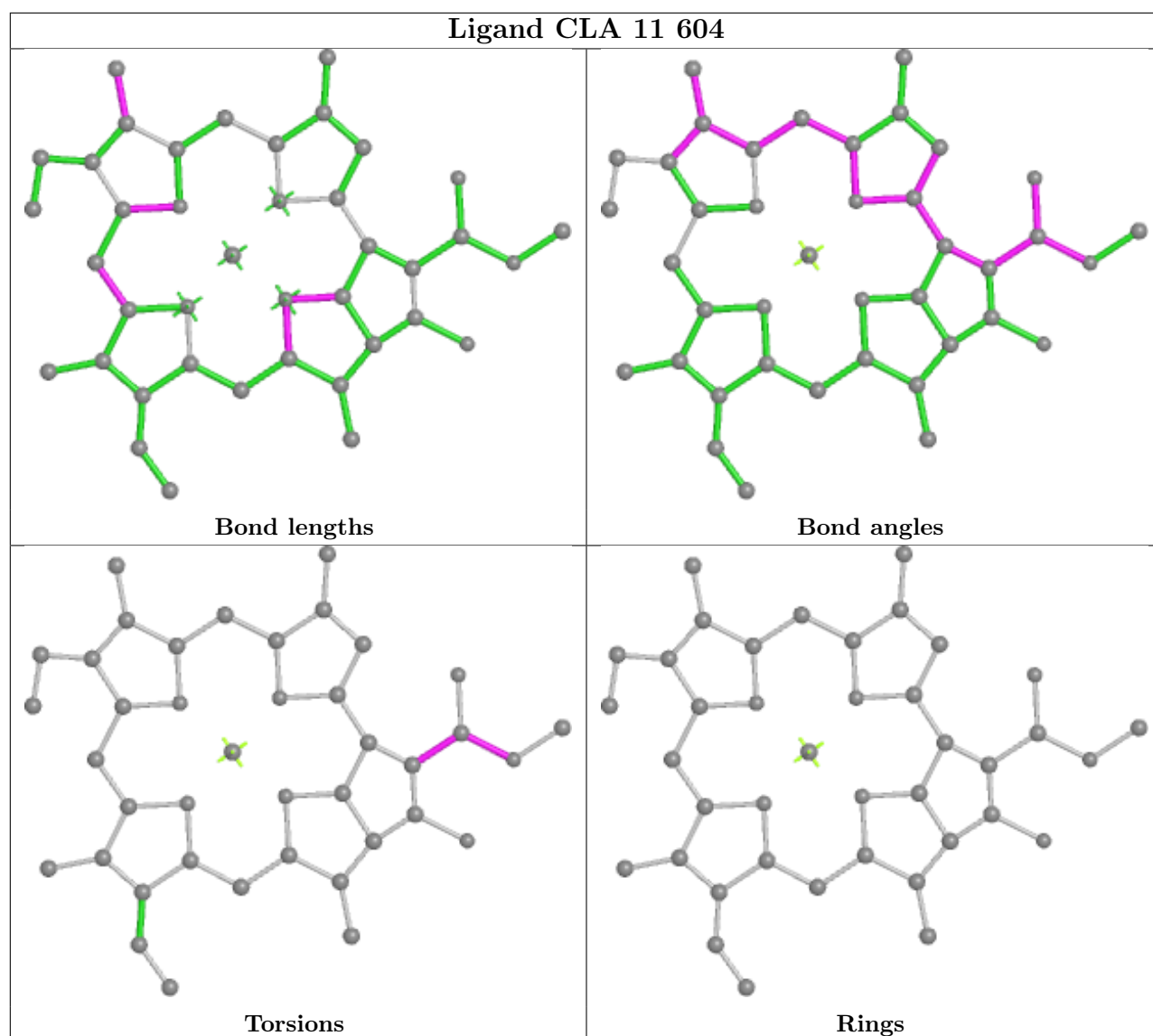


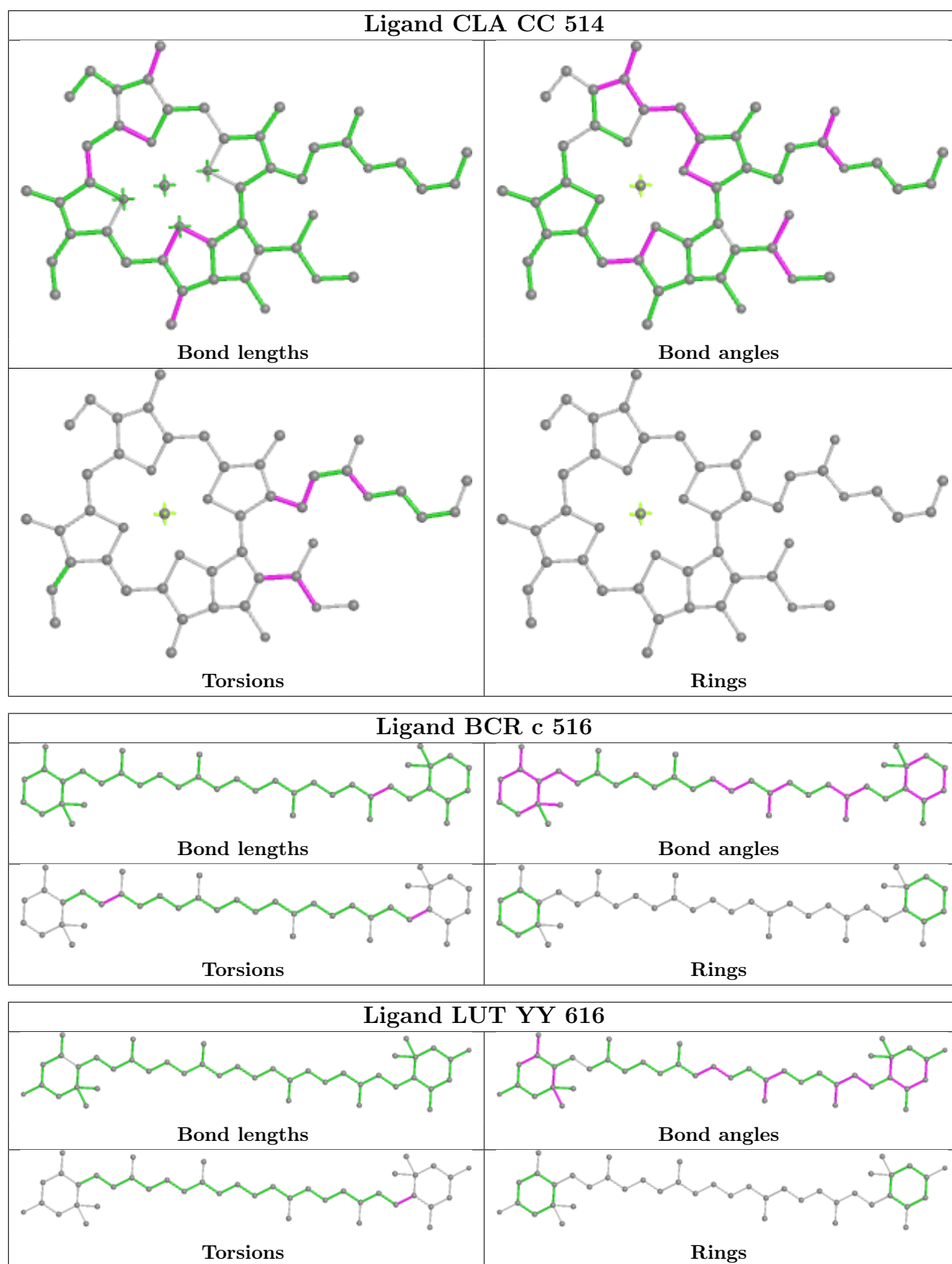


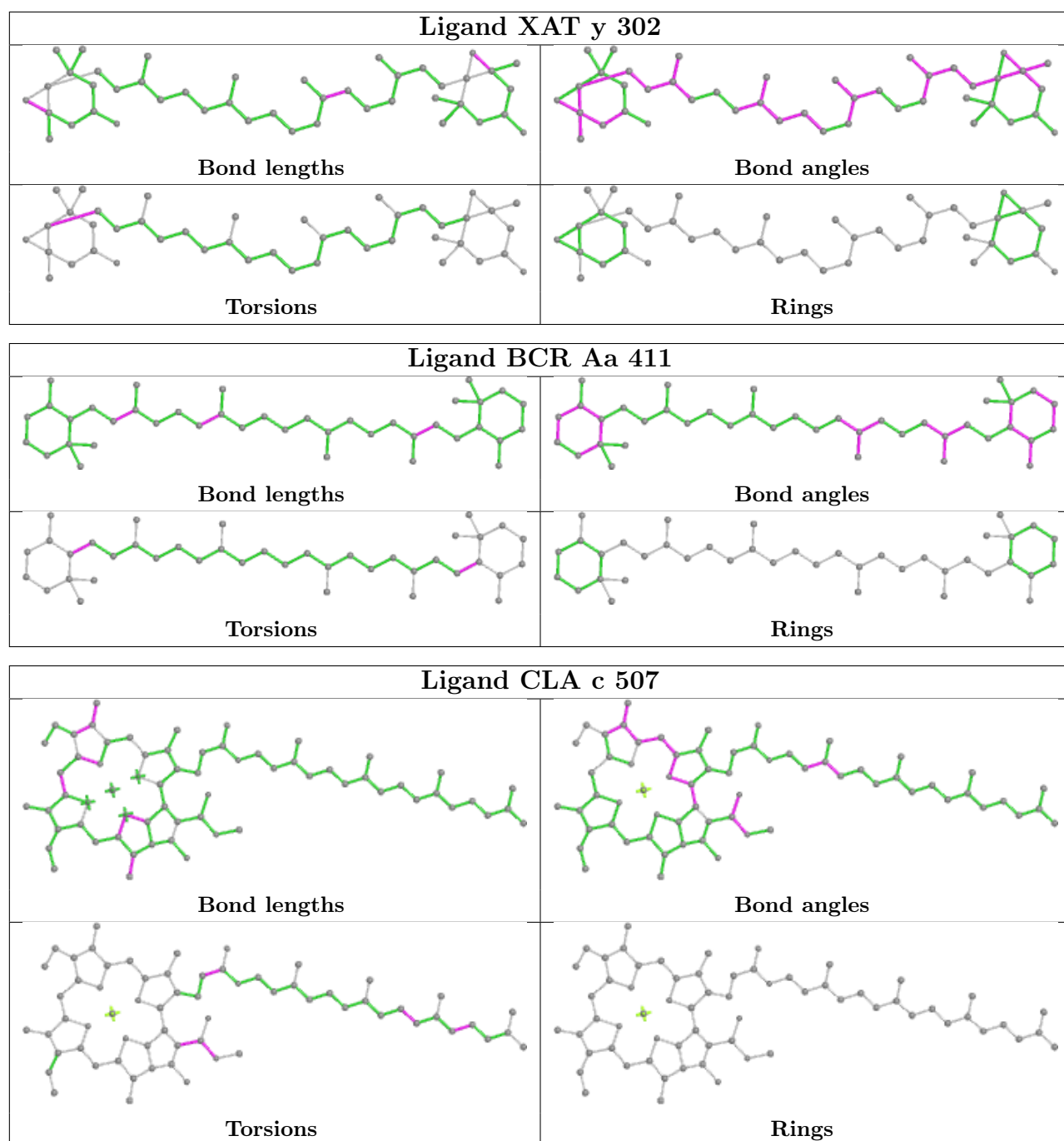
Ligand CLA r 601



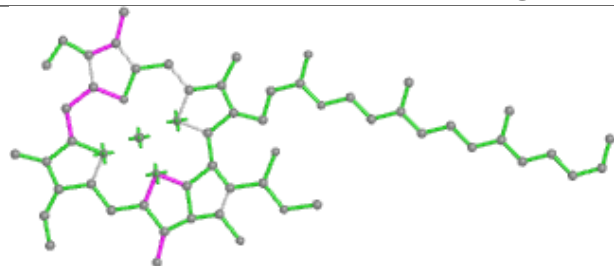




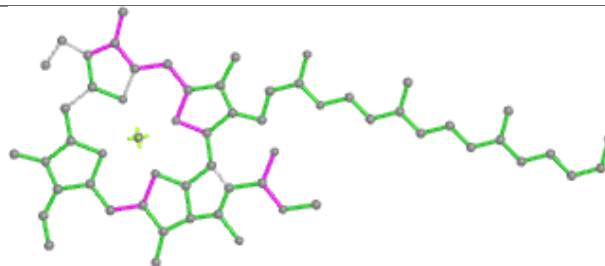




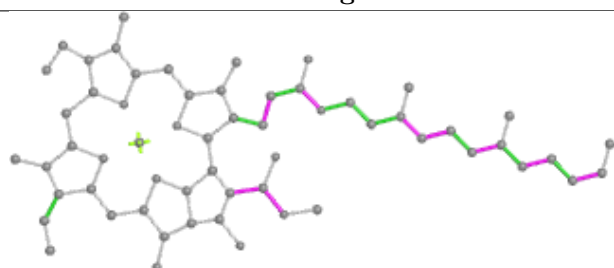
Ligand CLA Y 613



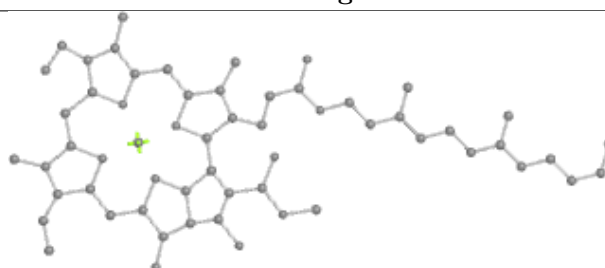
Bond lengths



Bond angles

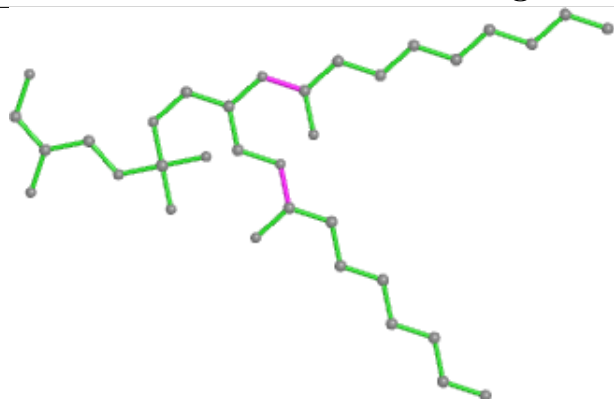


Torsions

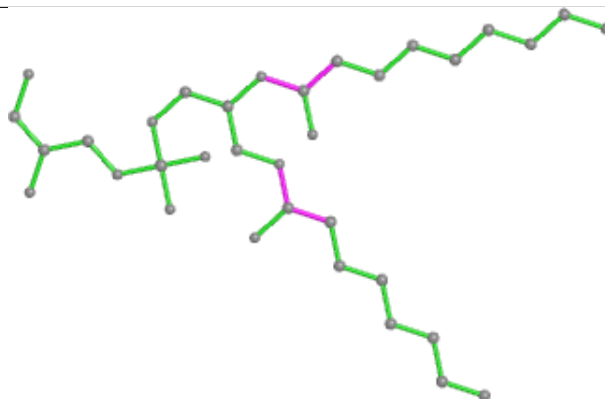


Rings

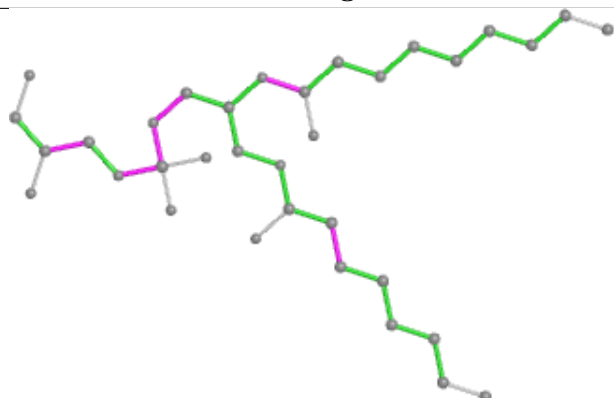
Ligand LHG K 101



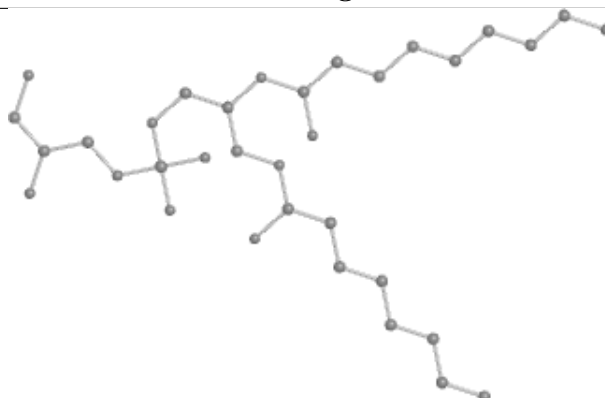
Bond lengths



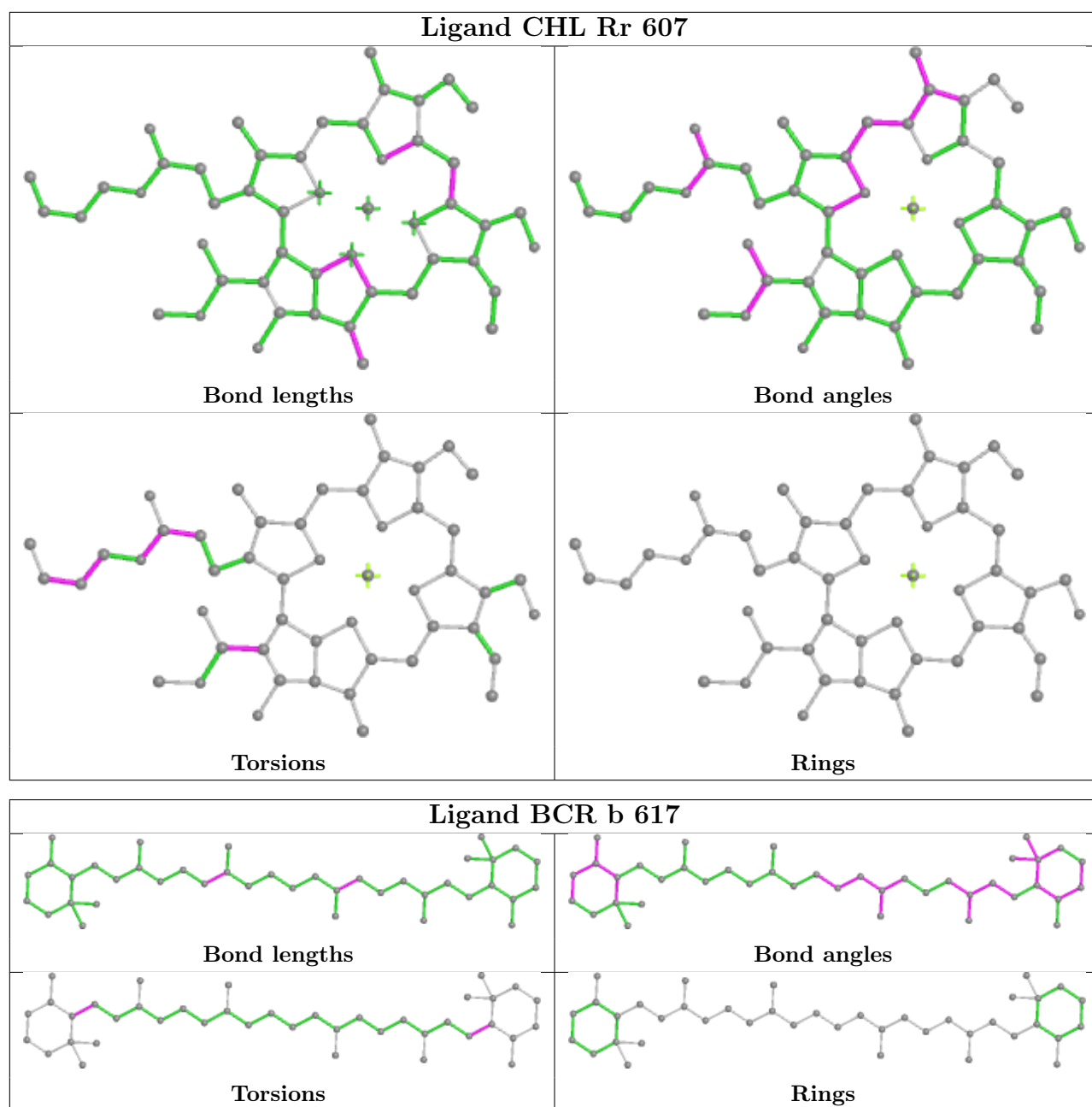
Bond angles



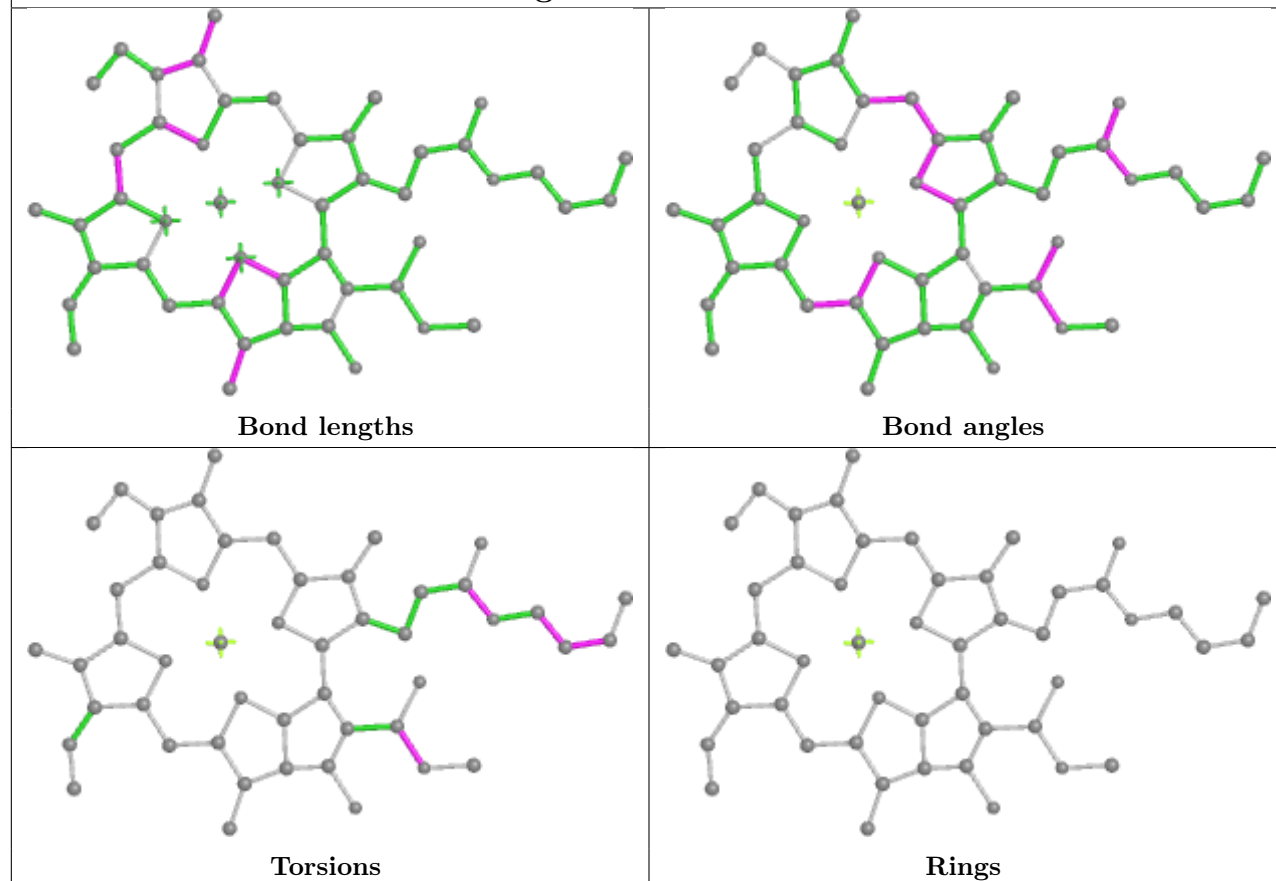
Torsions



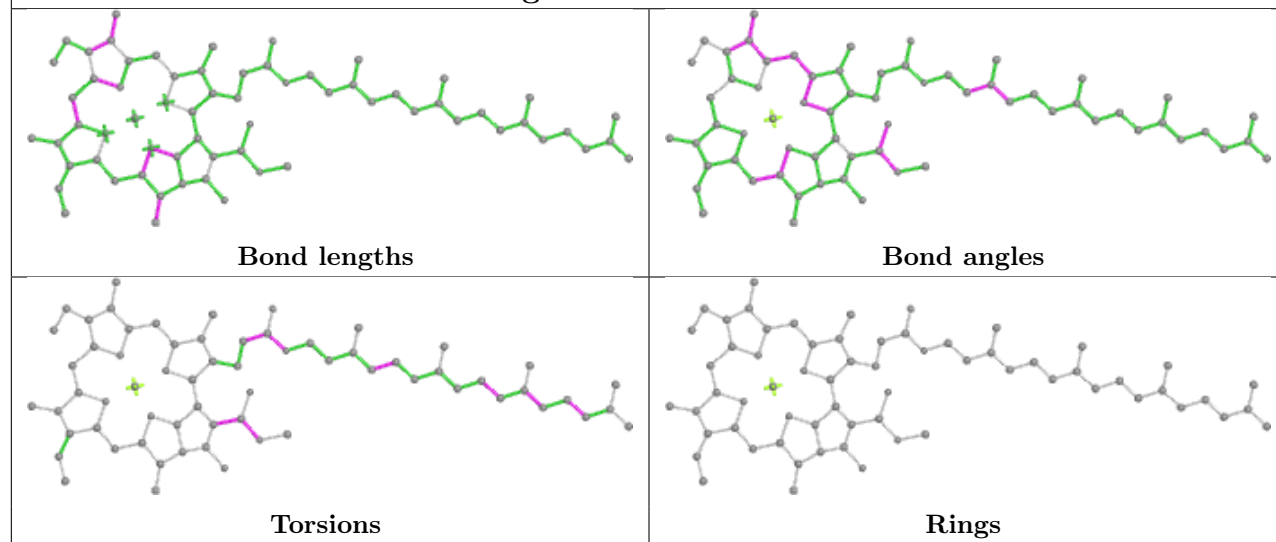
Rings

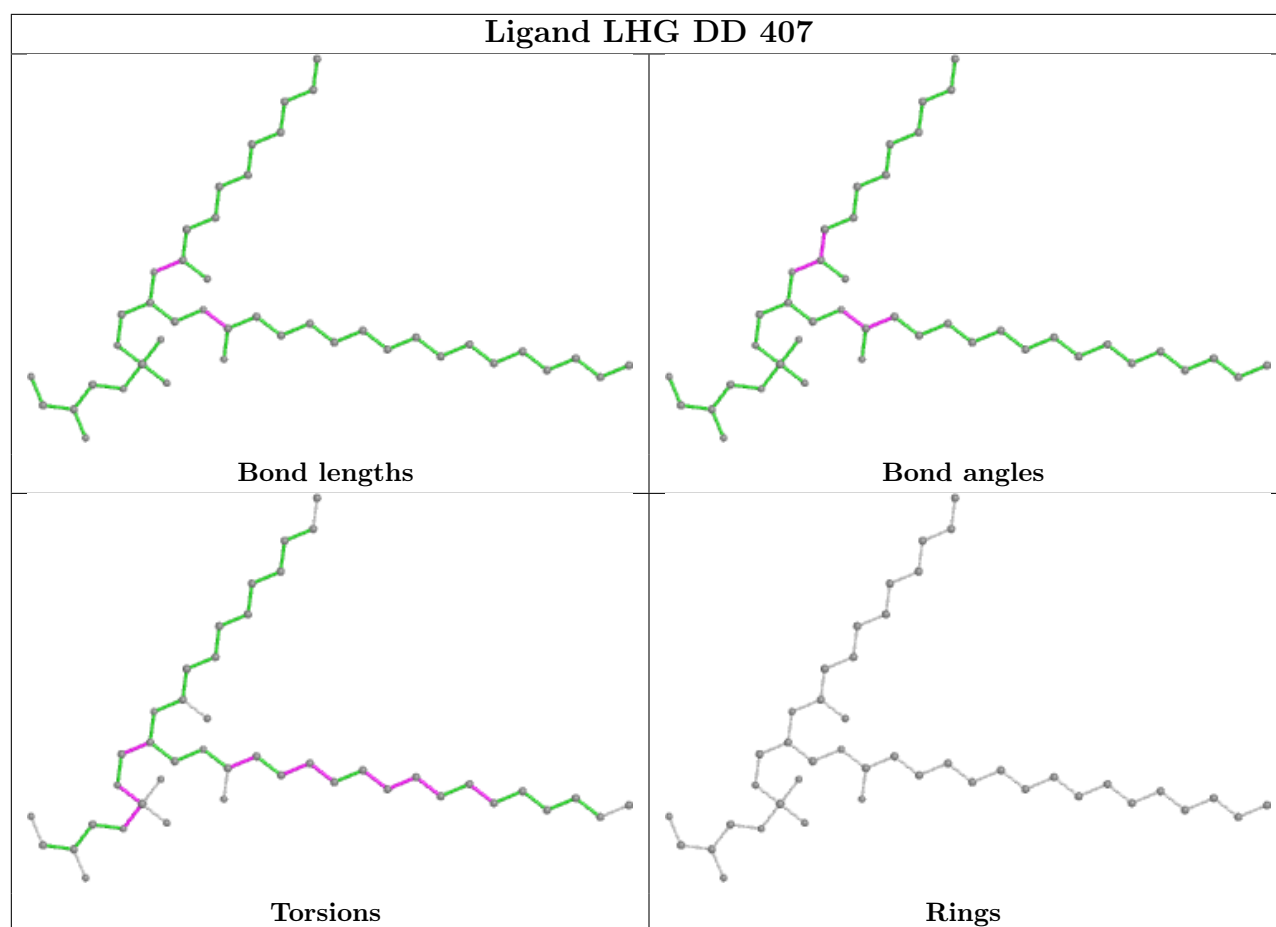


Ligand CLA n 604

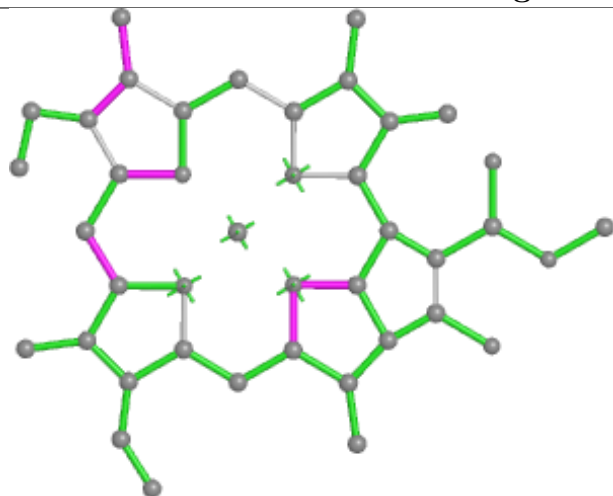


Ligand CLA Bb 605

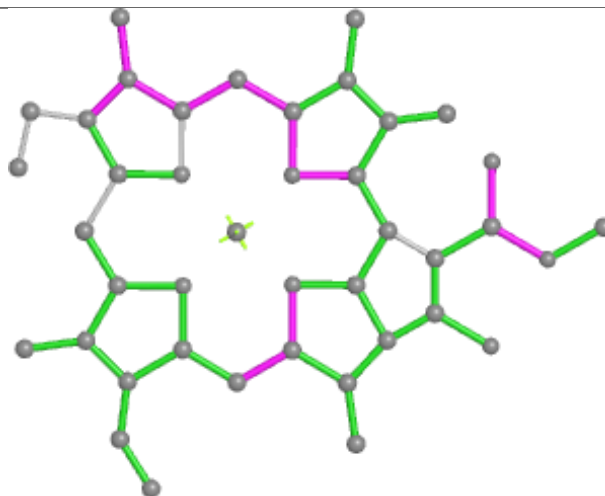




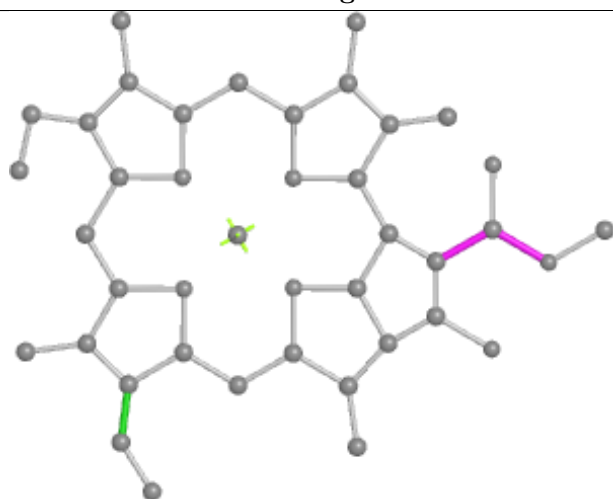
Ligand CLA N 614



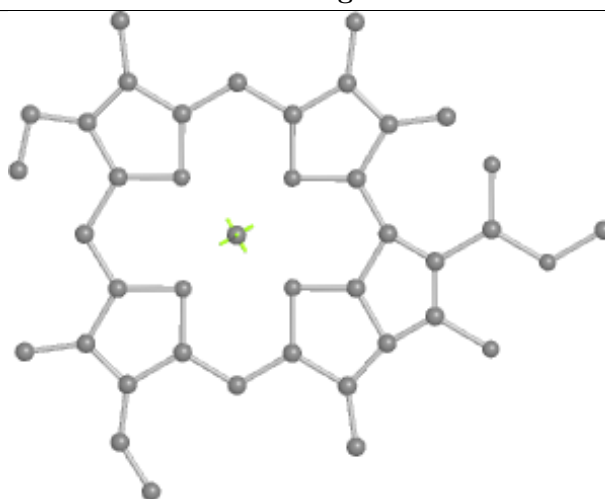
Bond lengths



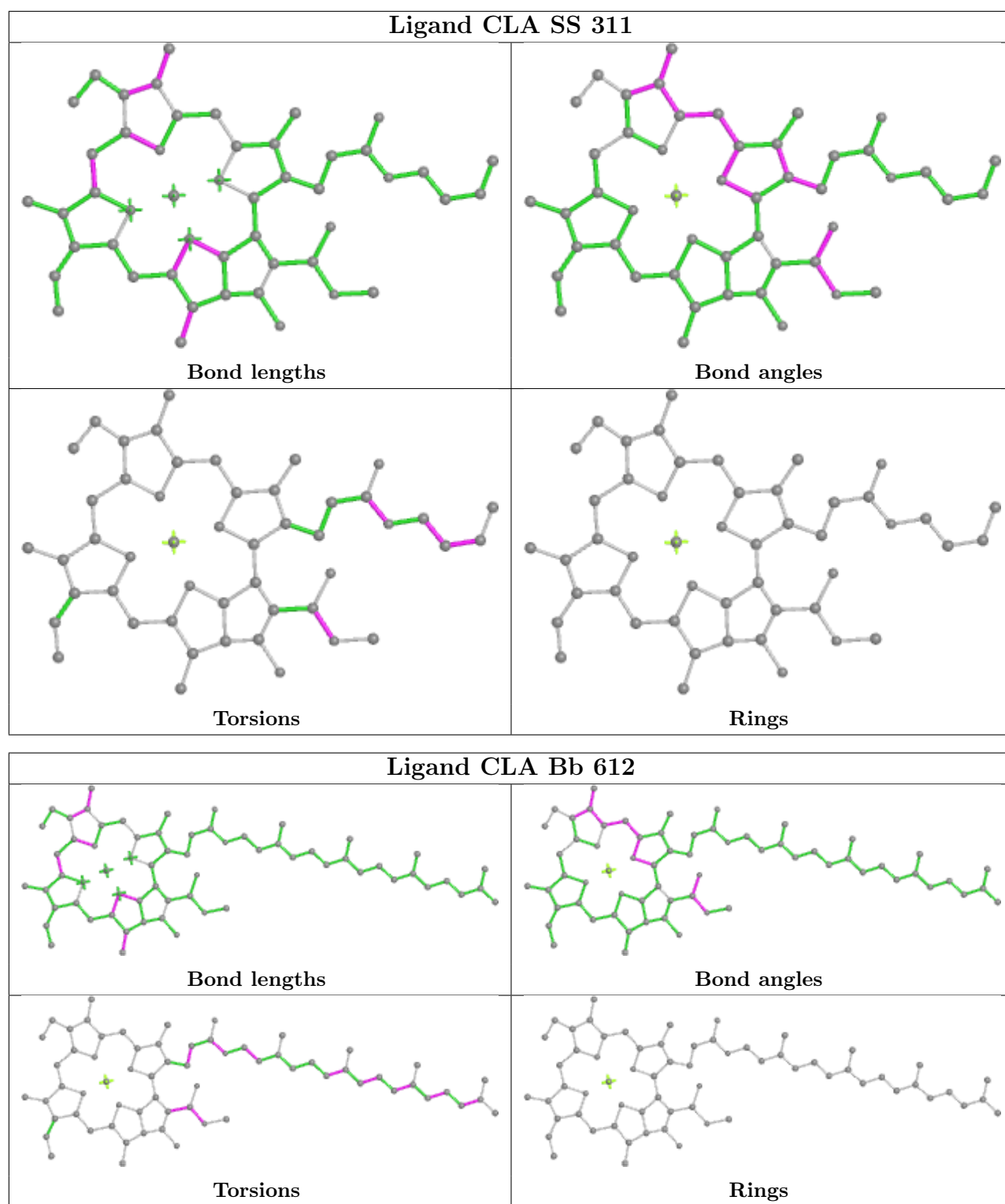
Bond angles

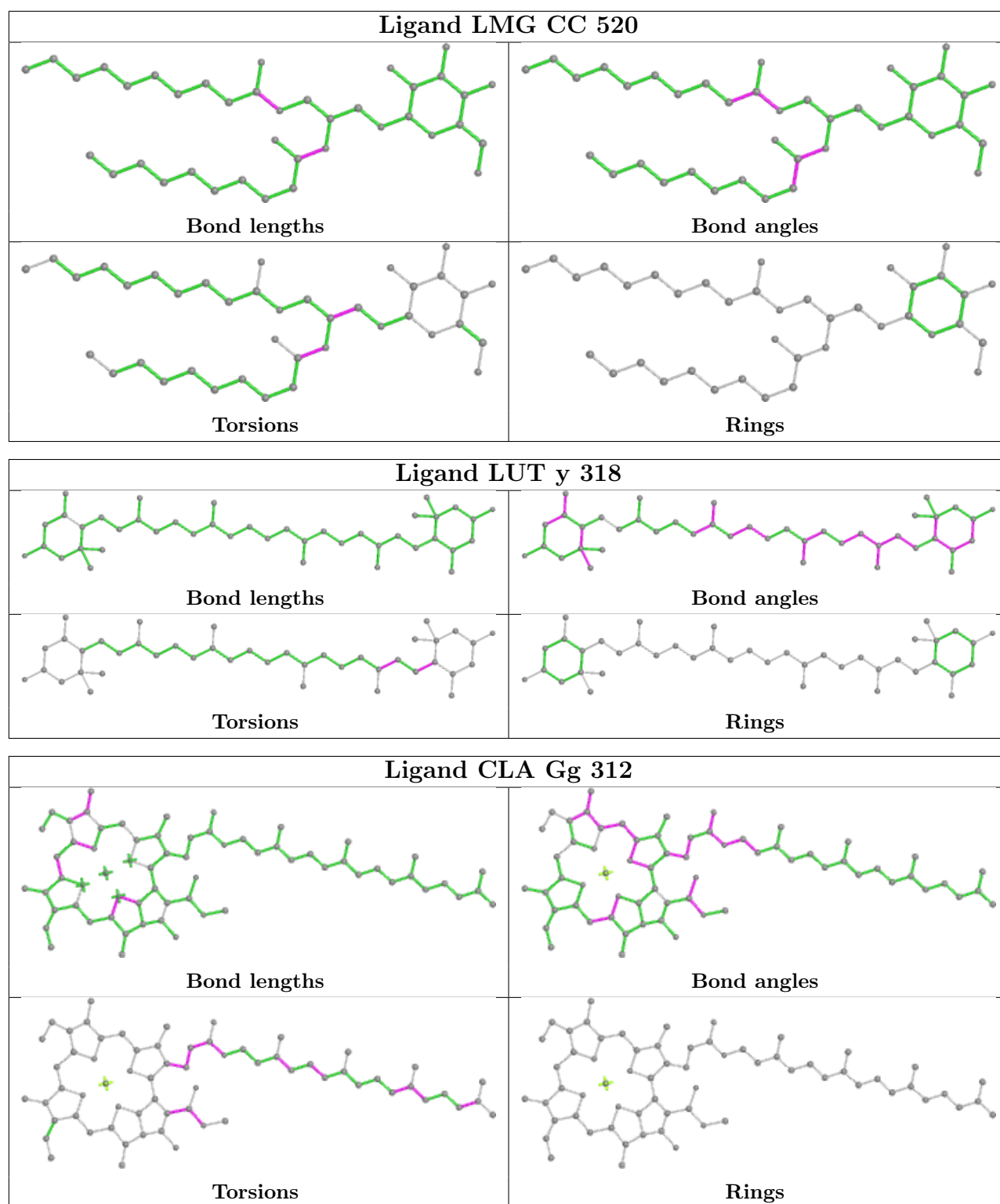


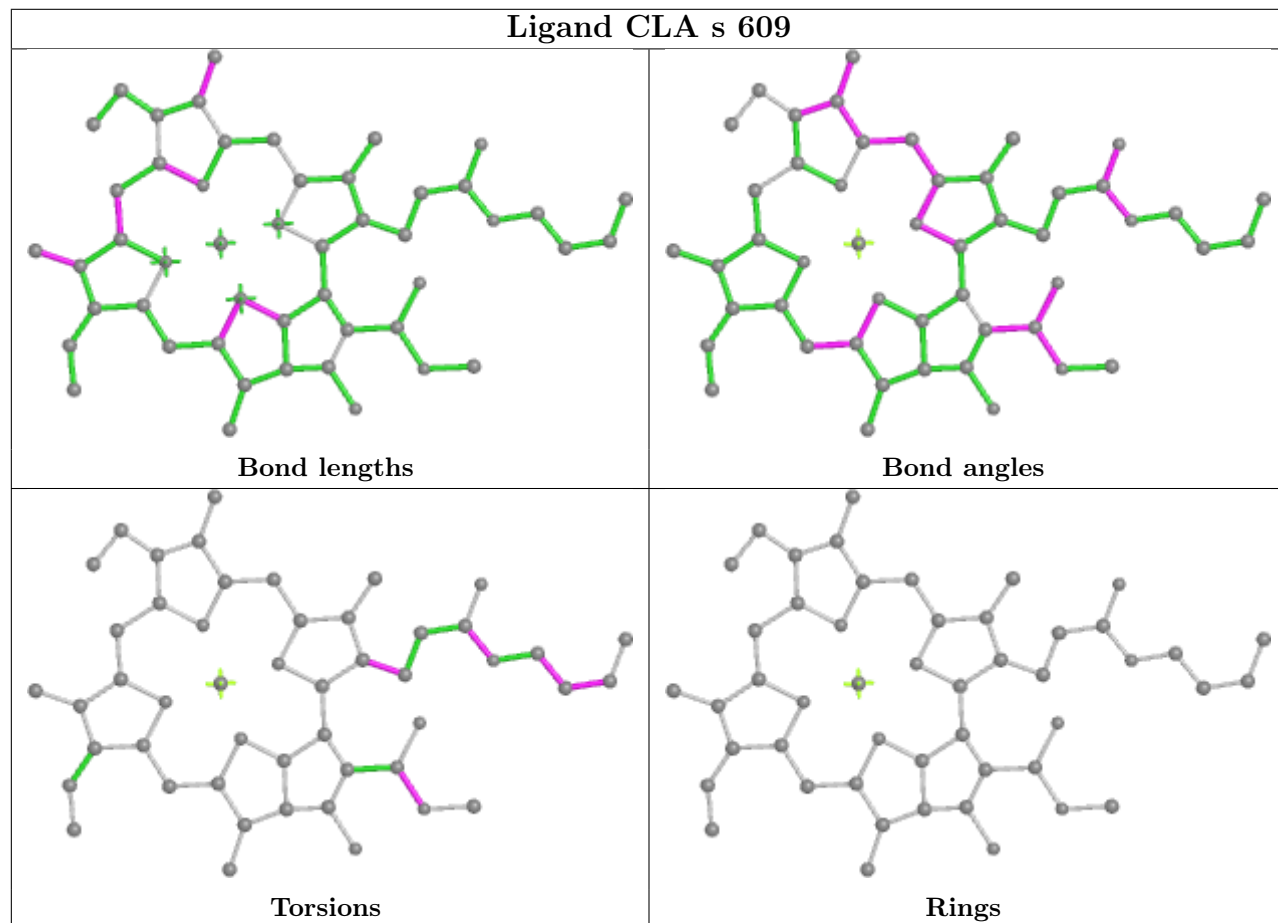
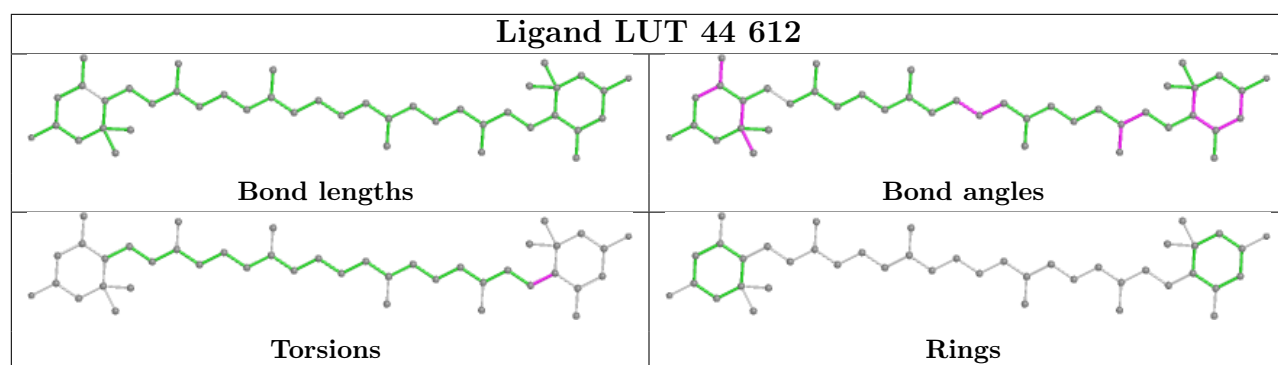
Torsions



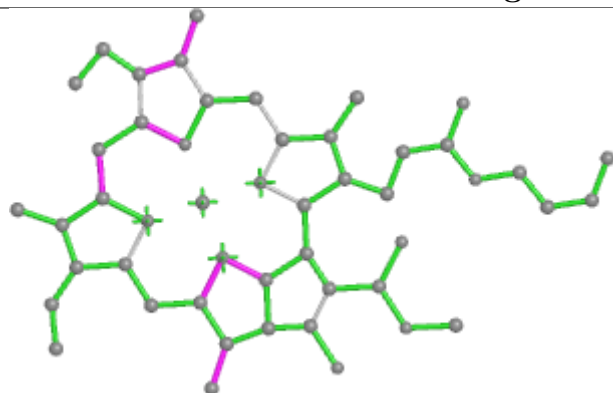
Rings



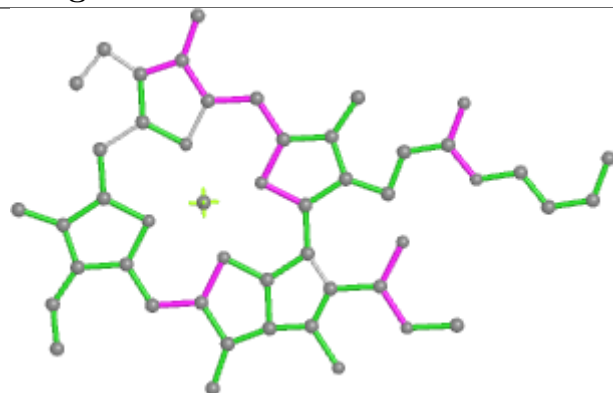




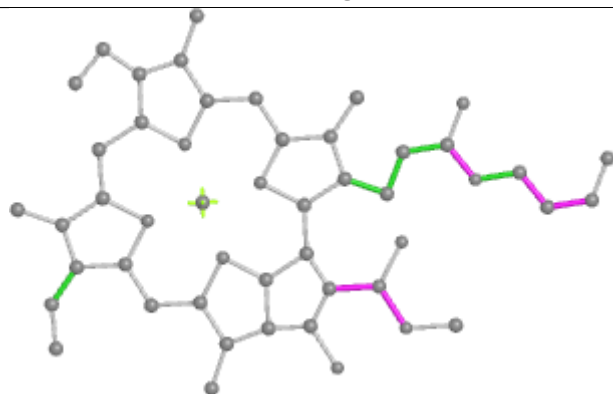
Ligand CLA Gg 315



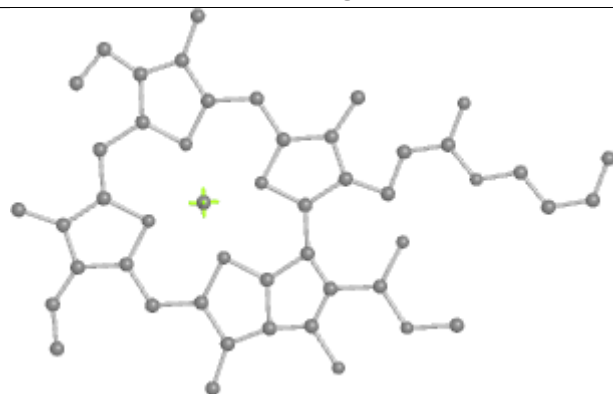
Bond lengths



Bond angles

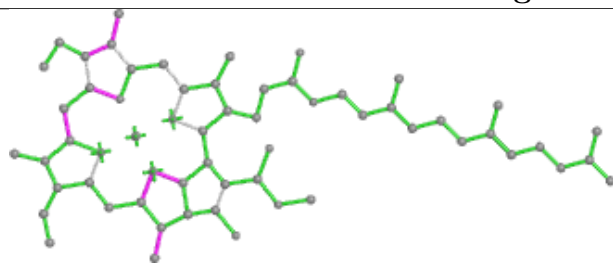


Torsions

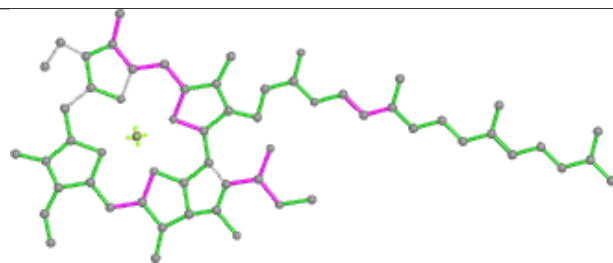


Rings

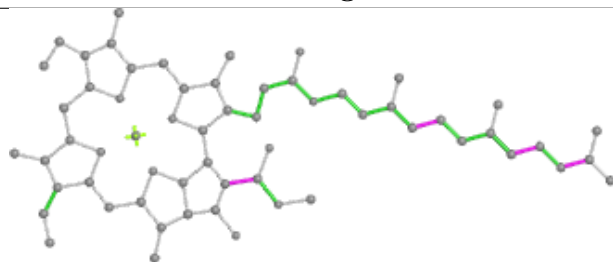
Ligand CLA A 408



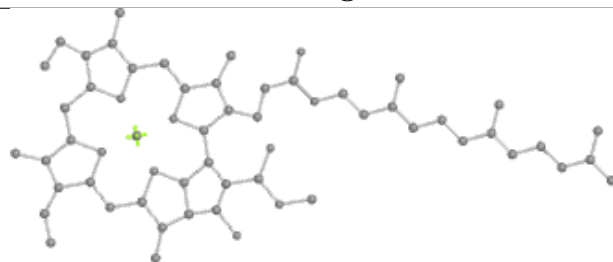
Bond lengths



Bond angles

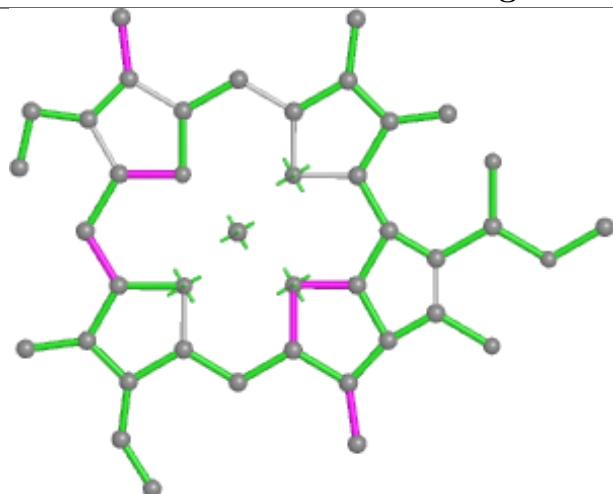


Torsions

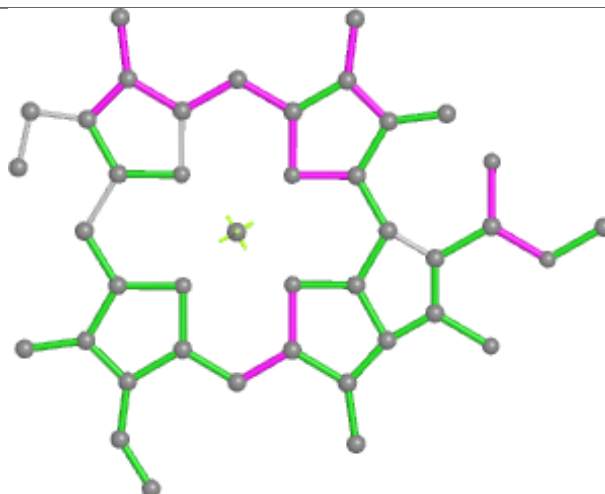


Rings

Ligand CLA NN 604



Bond lengths



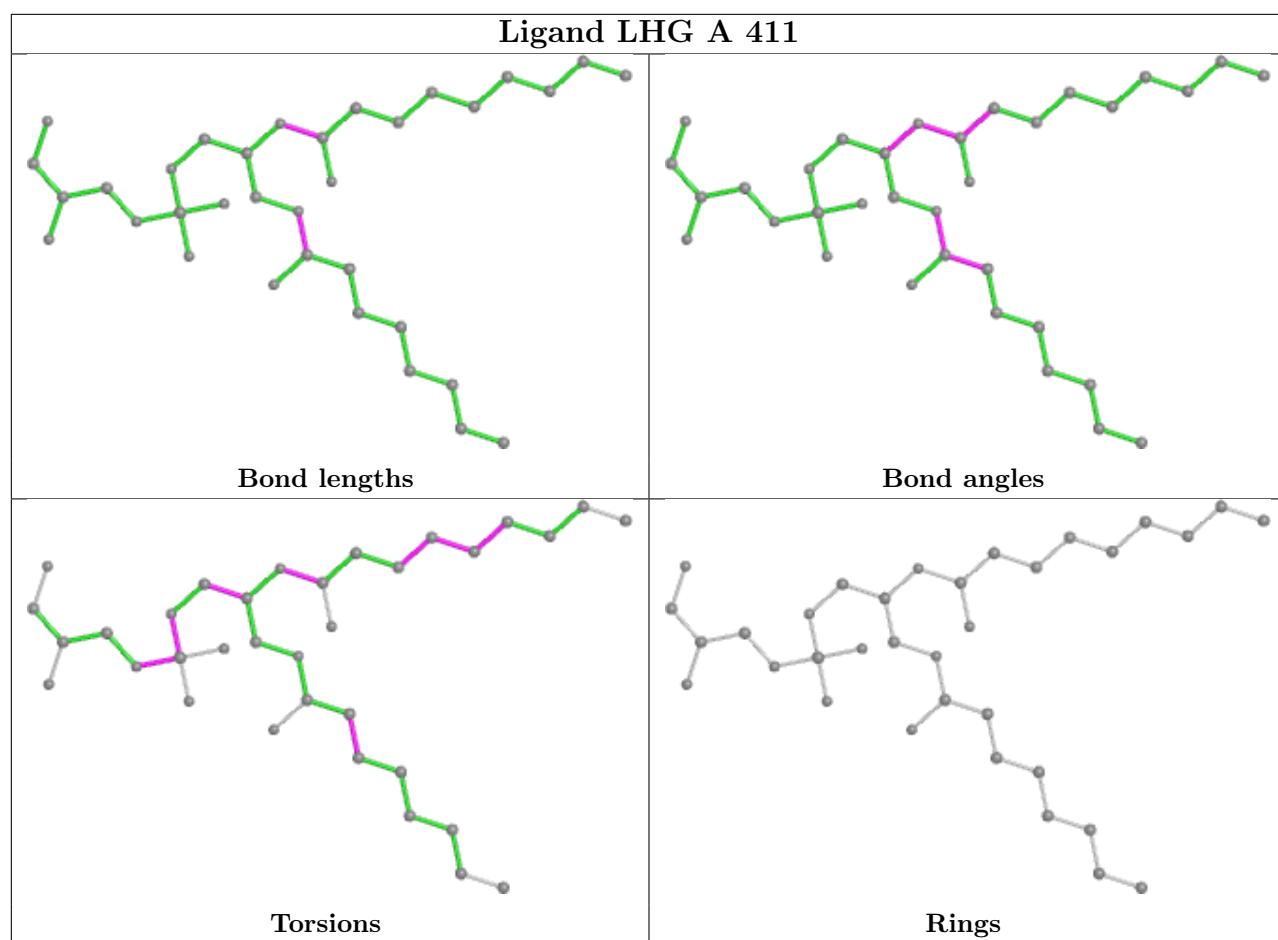
Bond angles

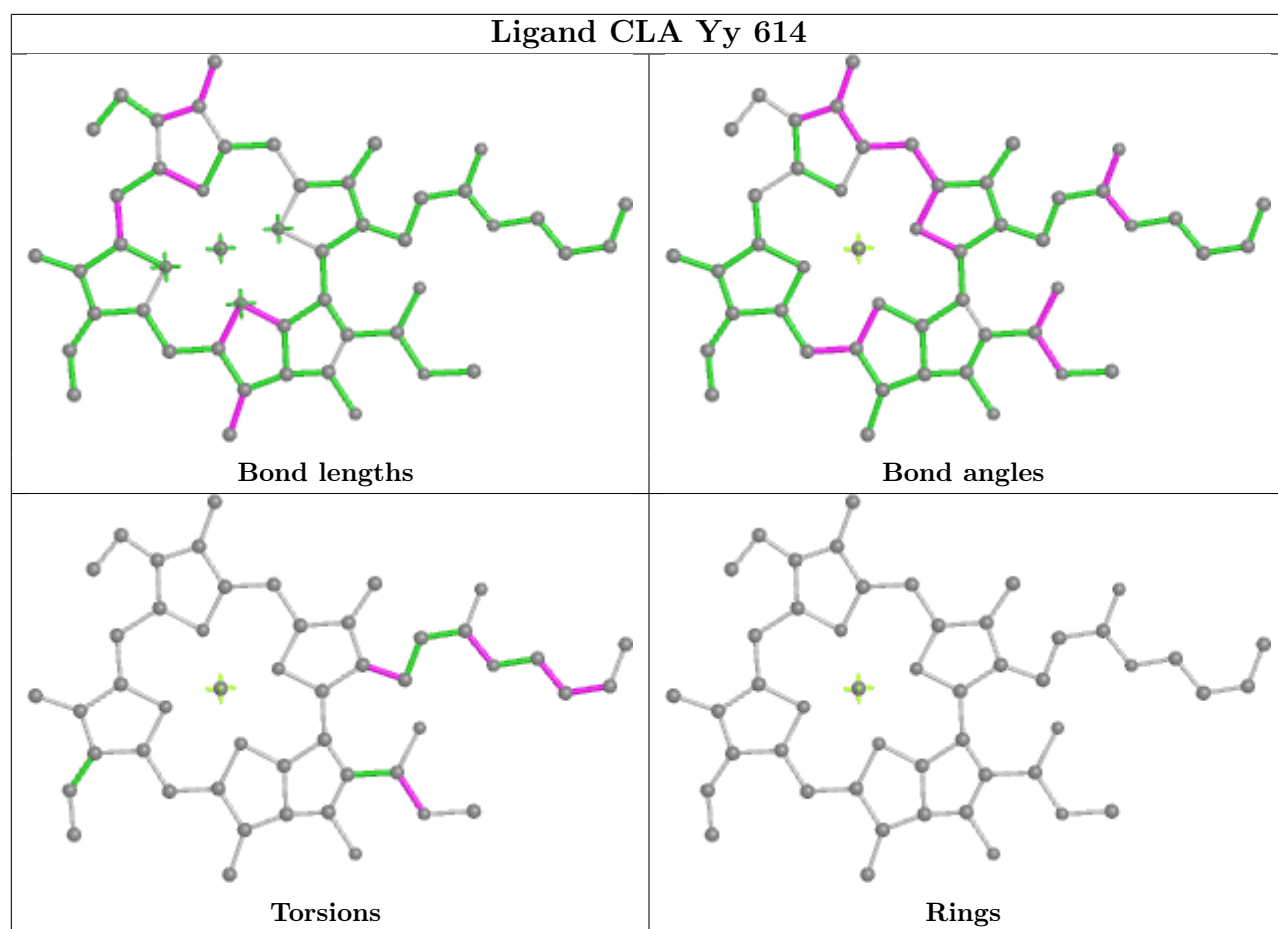


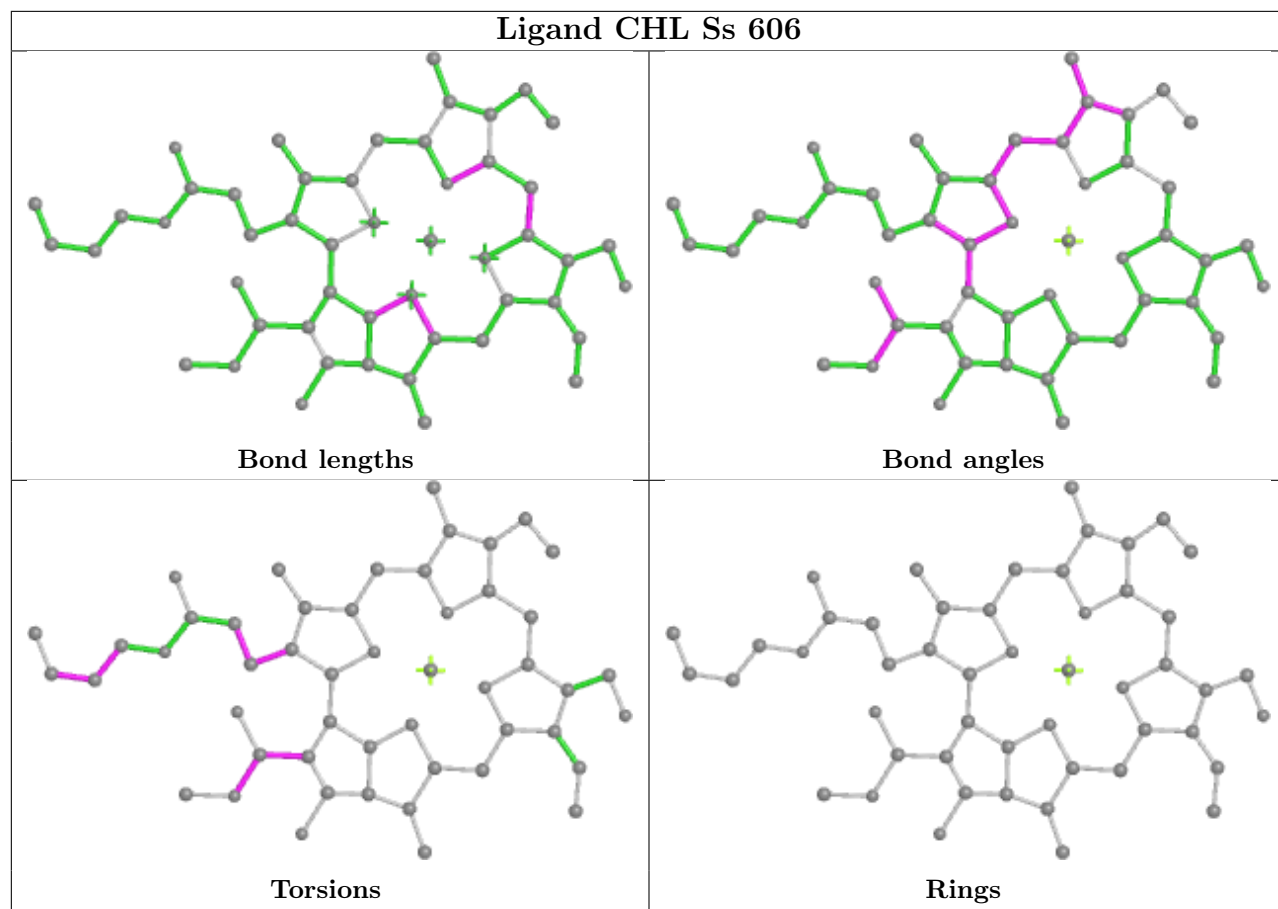
Torsions



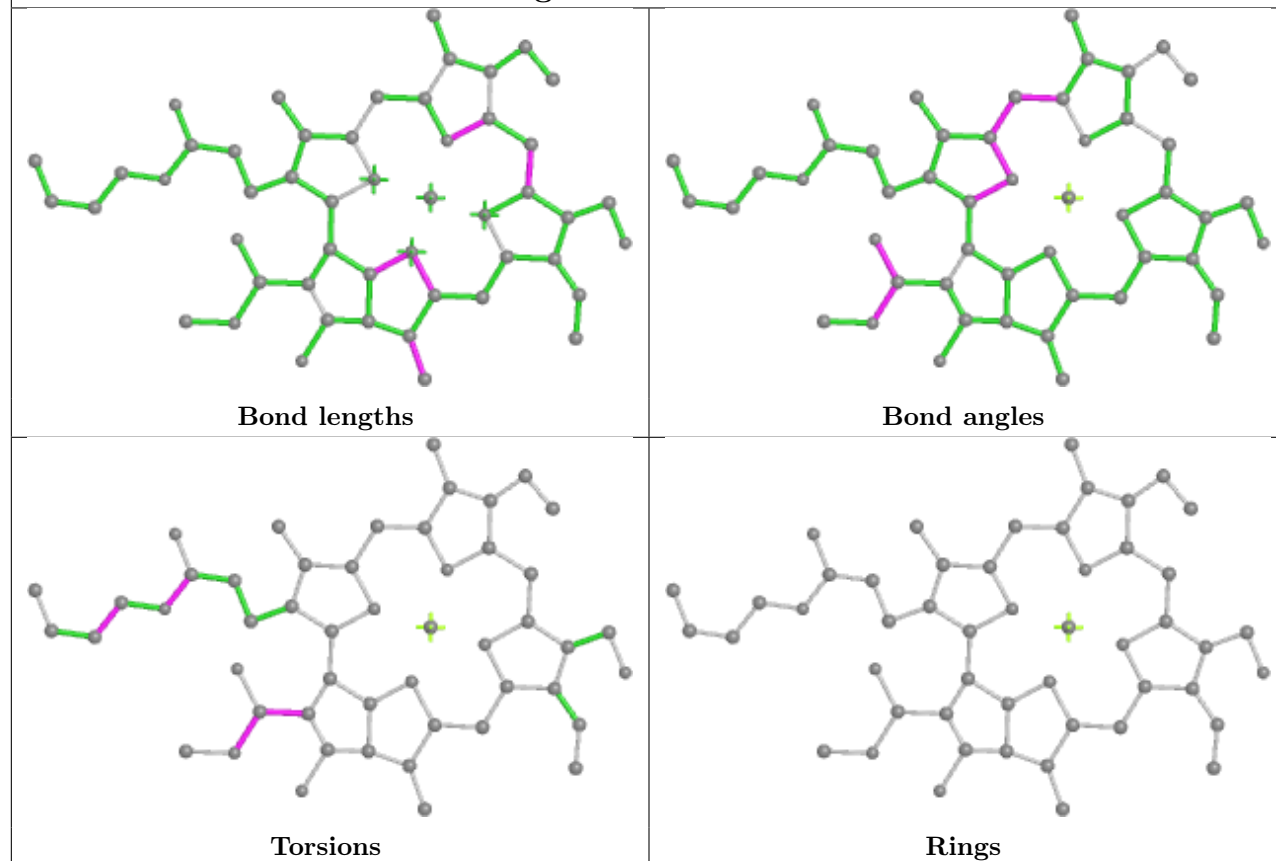
Rings



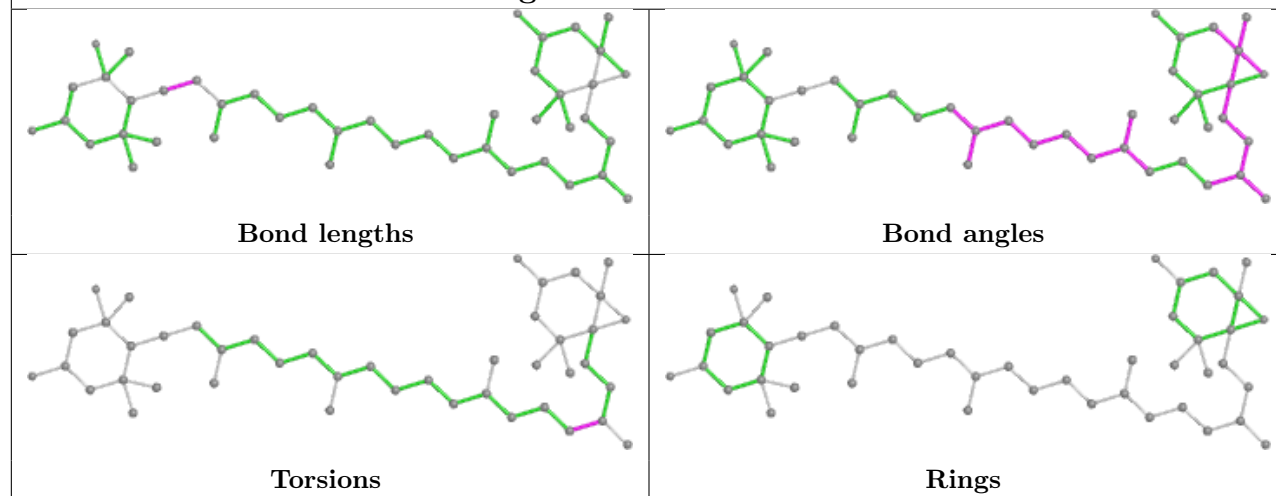




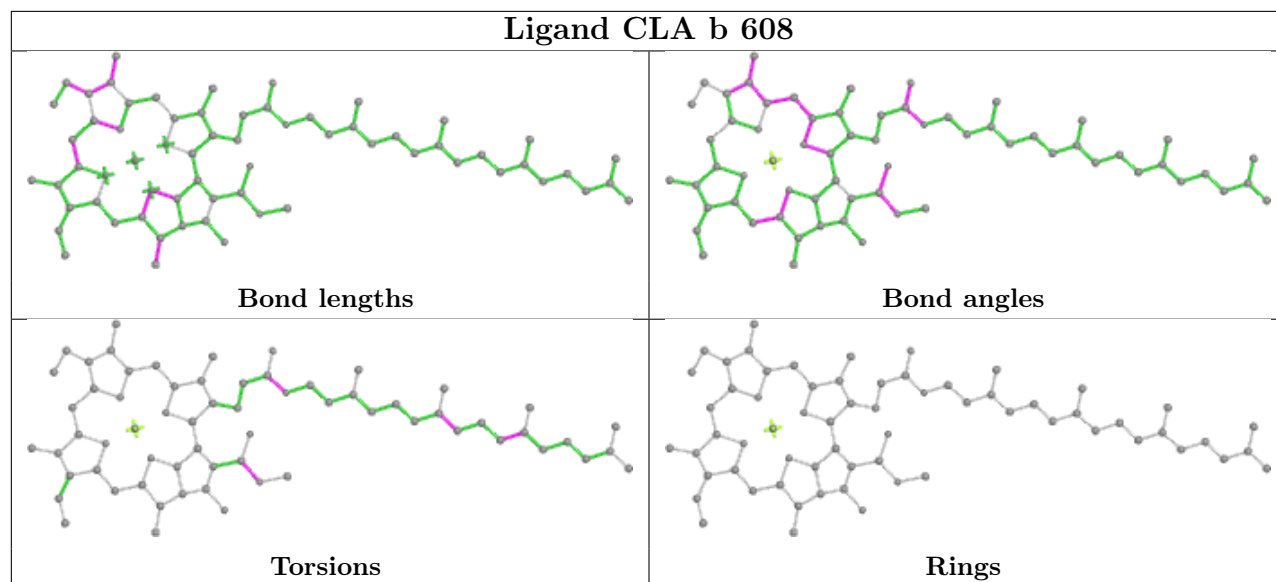
Ligand CHL n 601



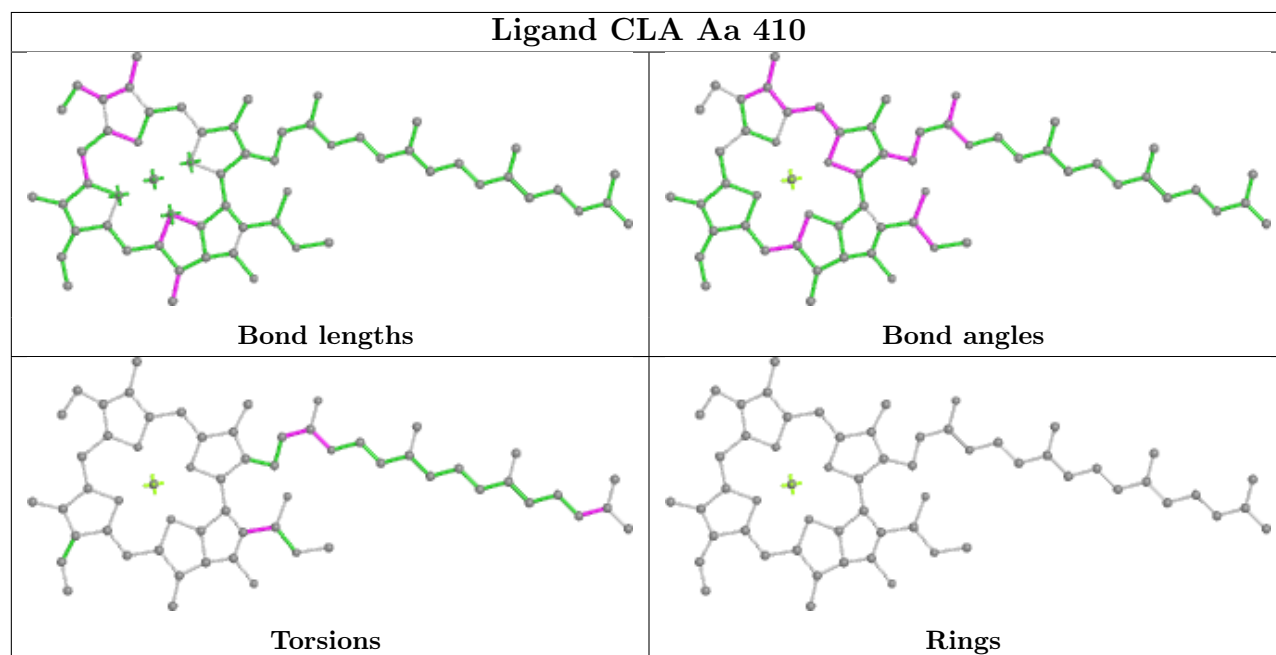
Ligand NEX Nn 309

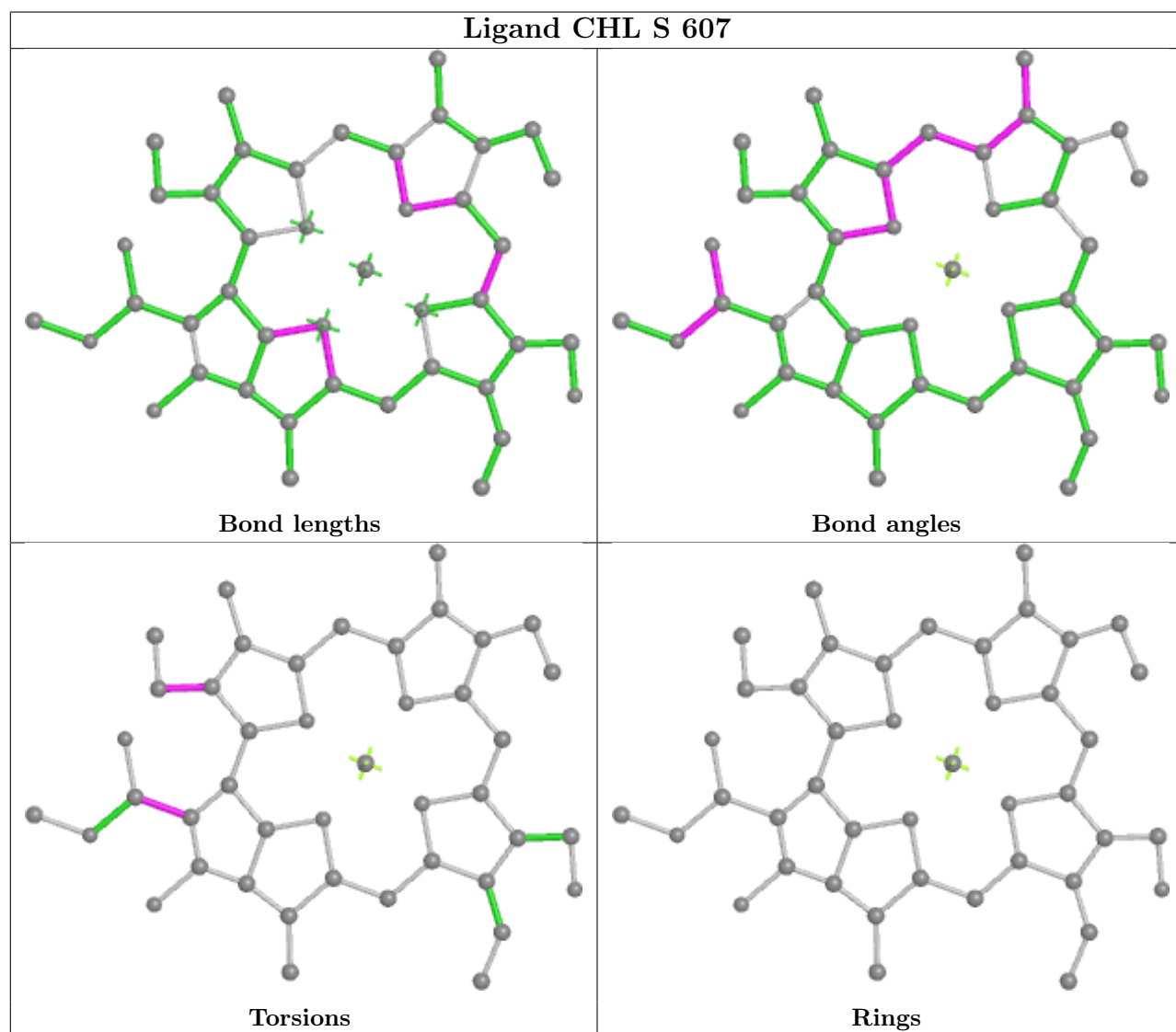
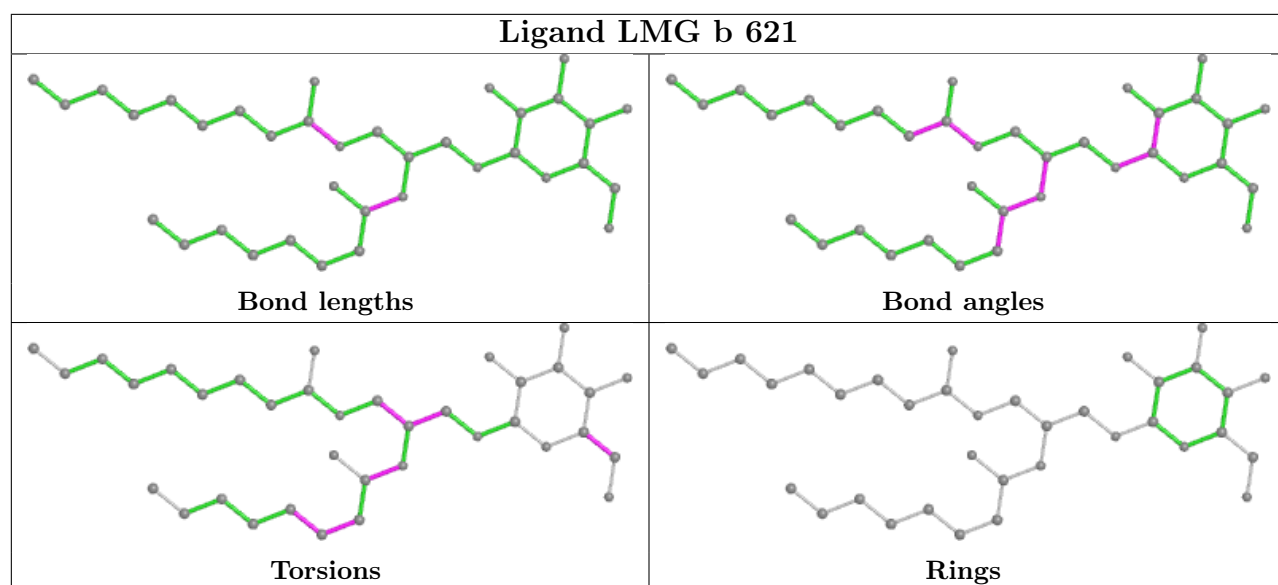


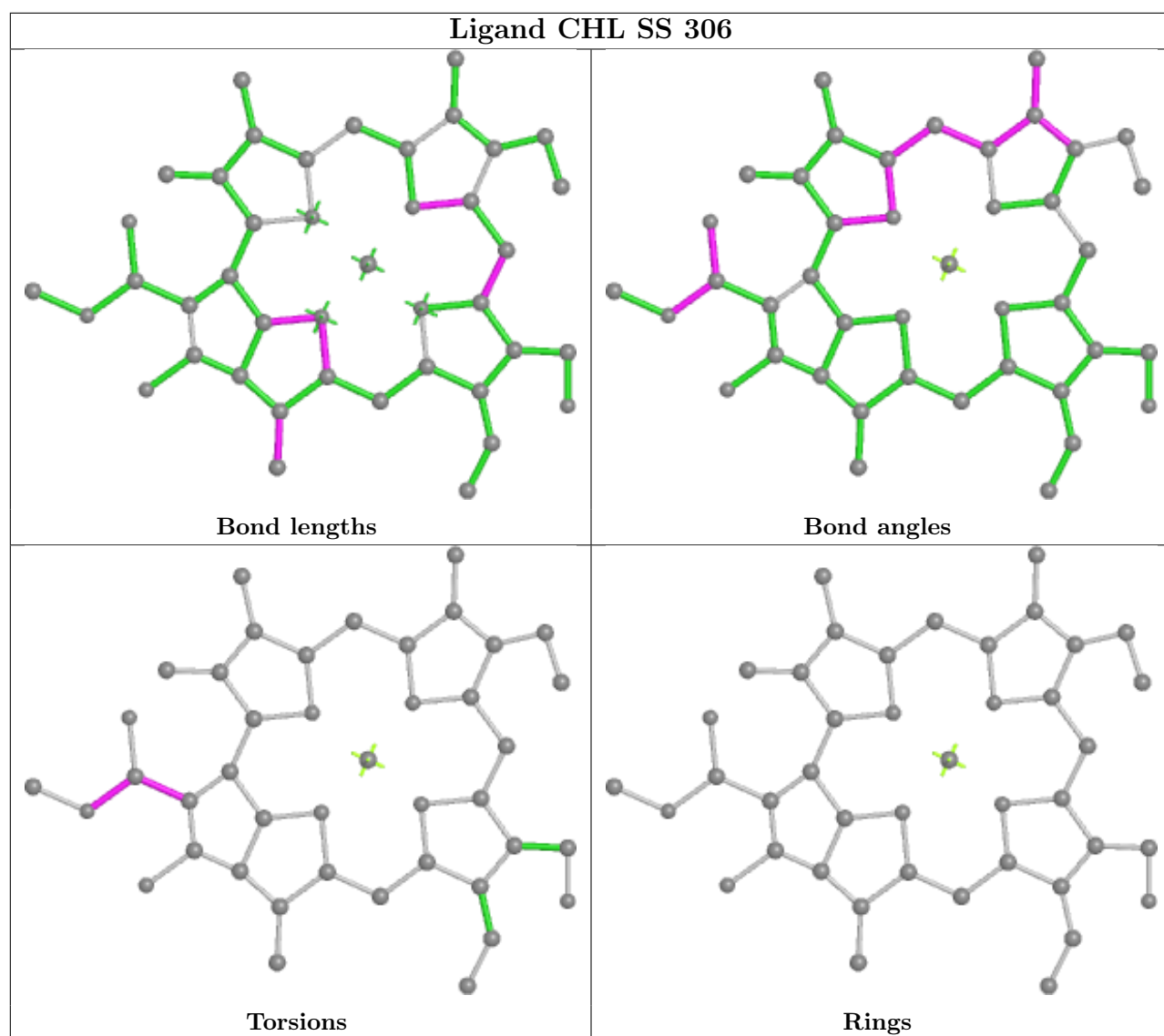
Ligand CLA b 608

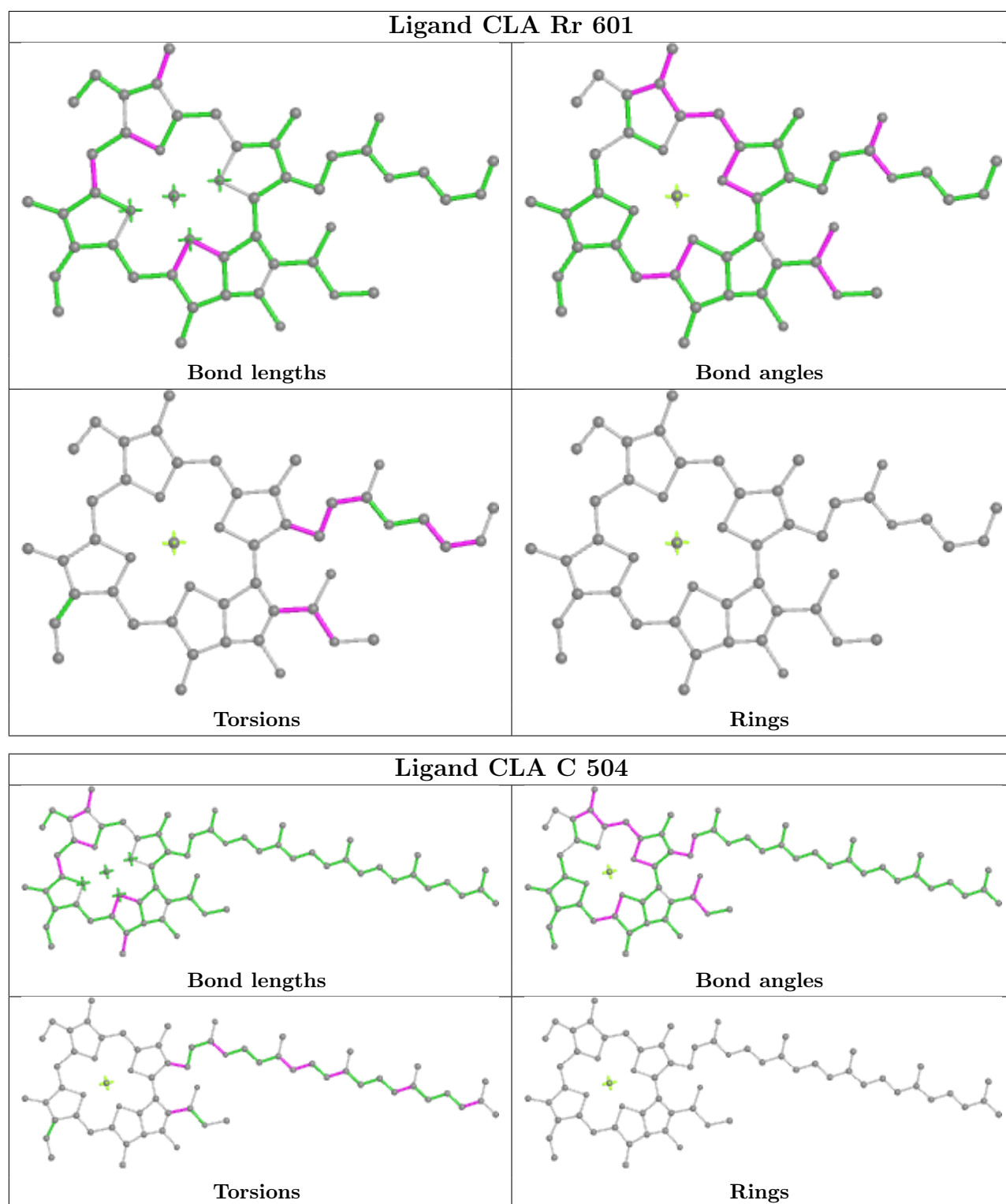


Ligand CLA Aa 410

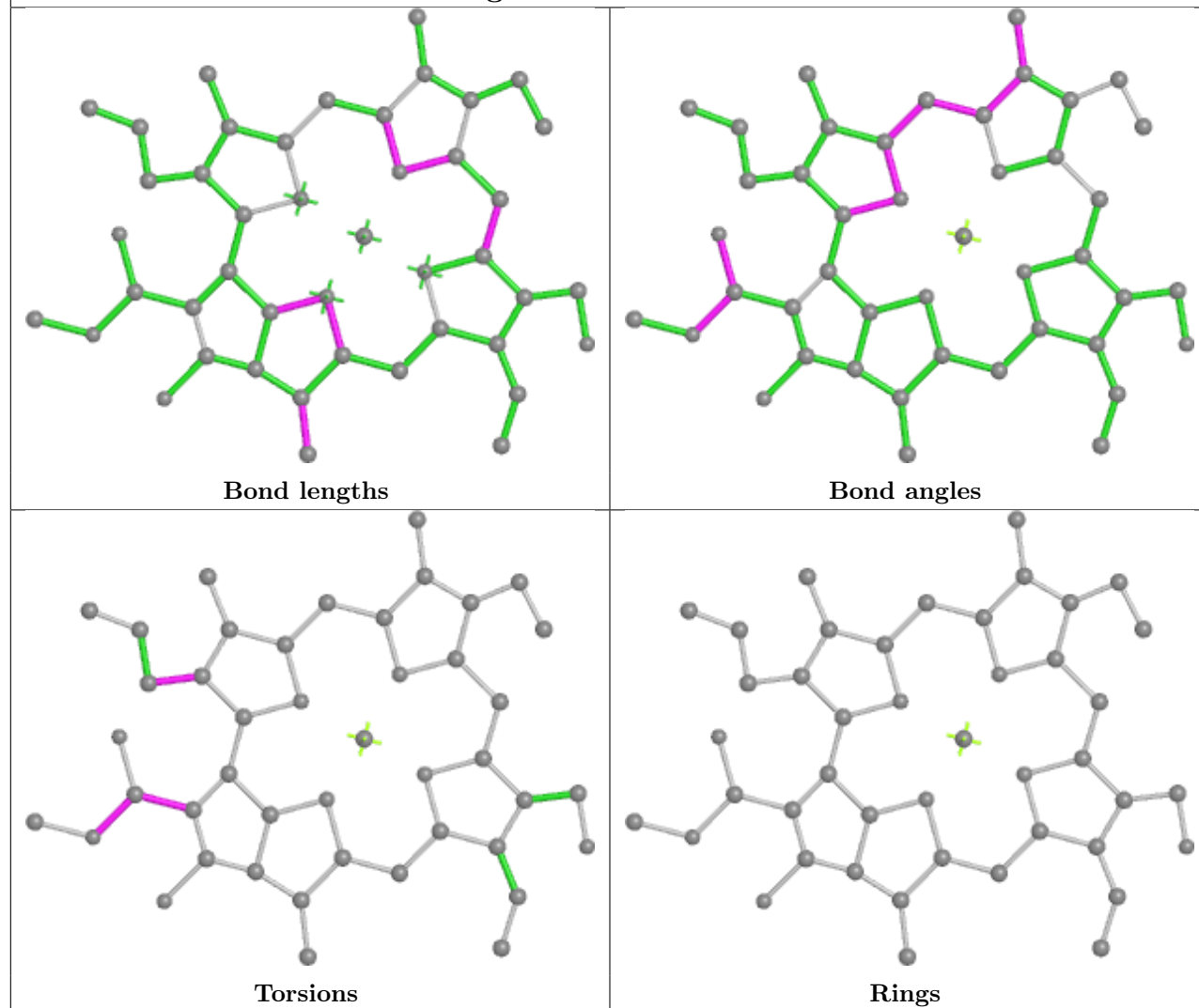




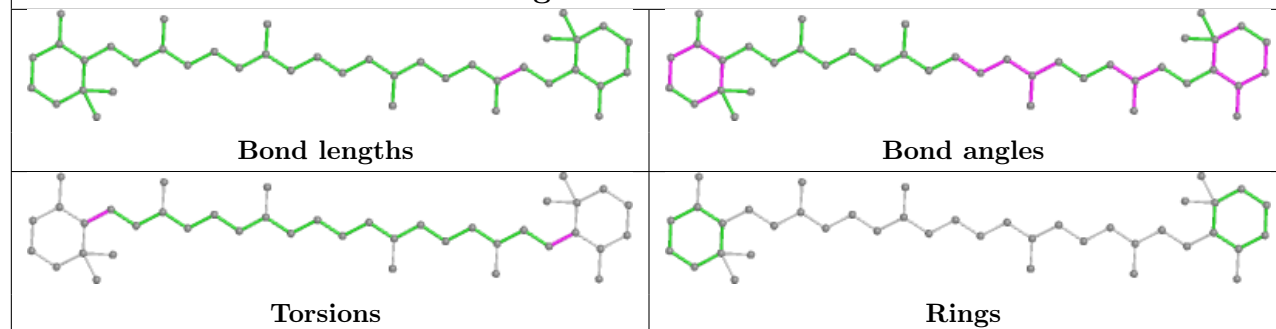


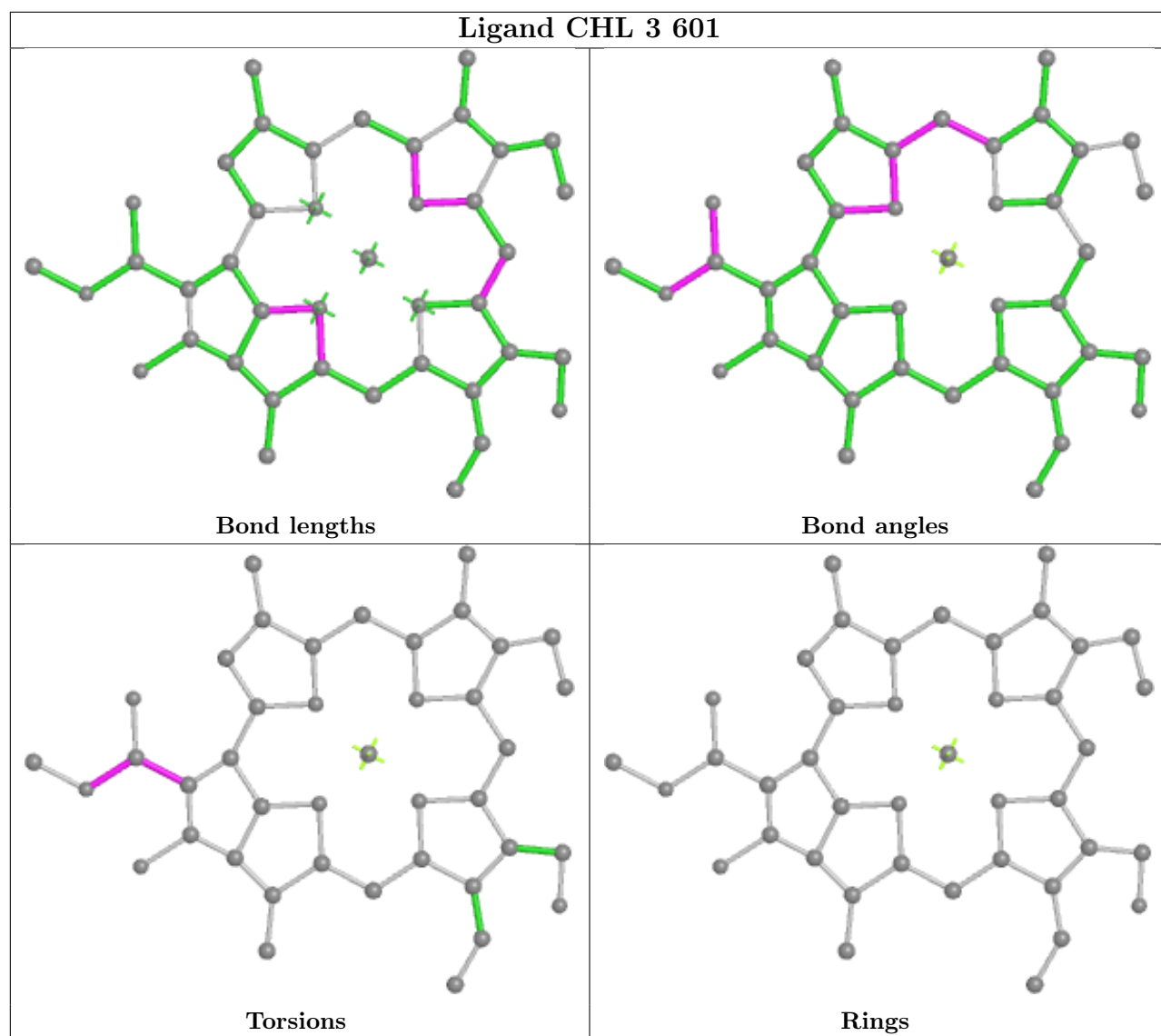
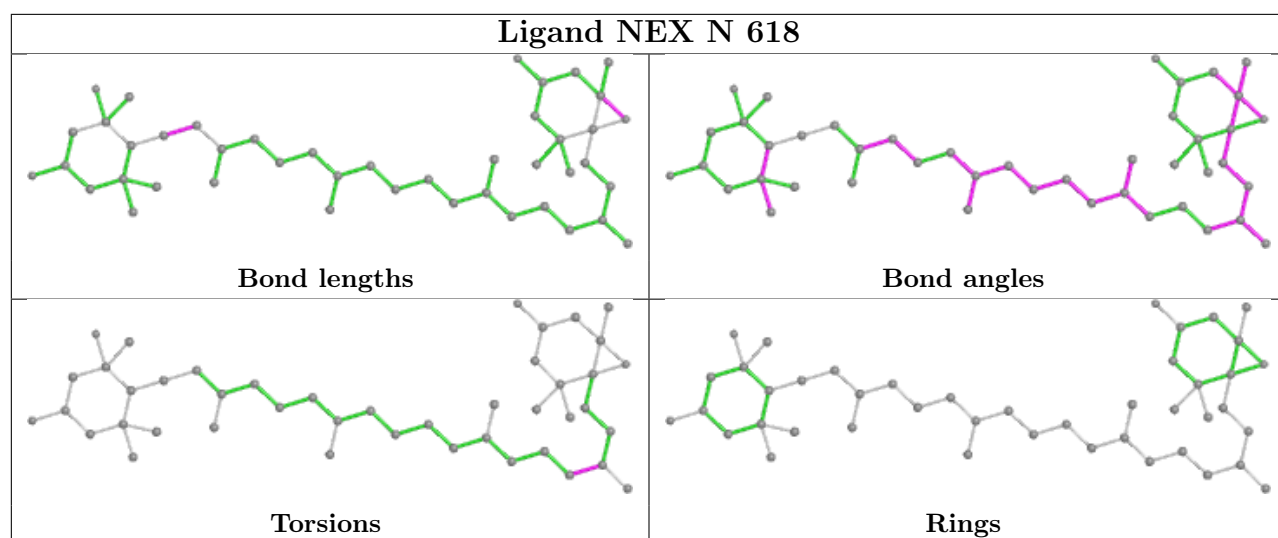


Ligand CHL YY 606

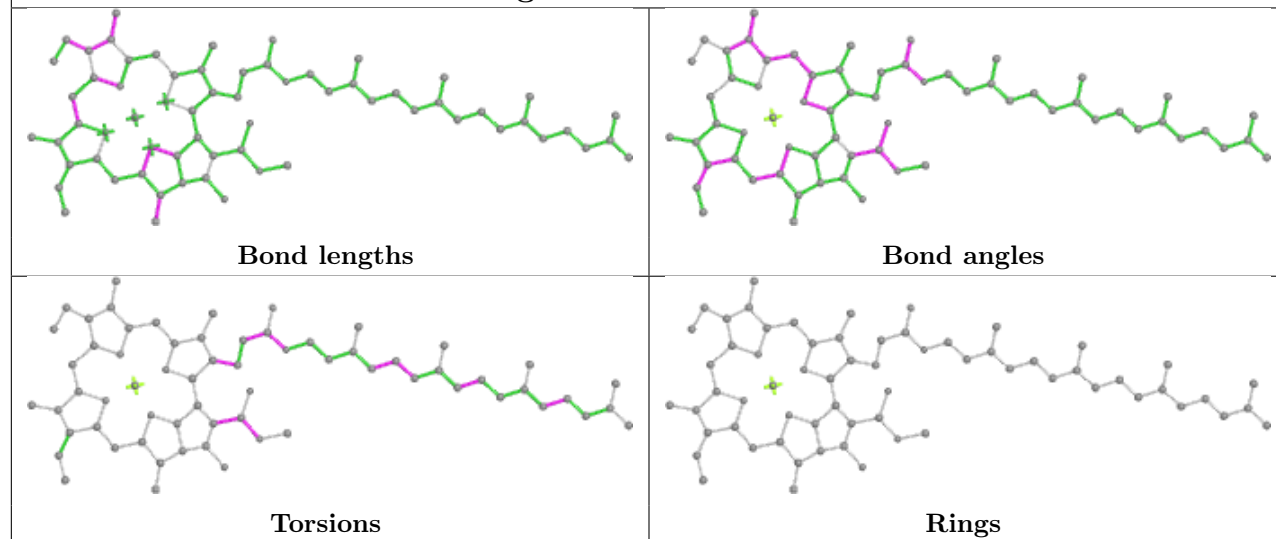


Ligand BCR b 619

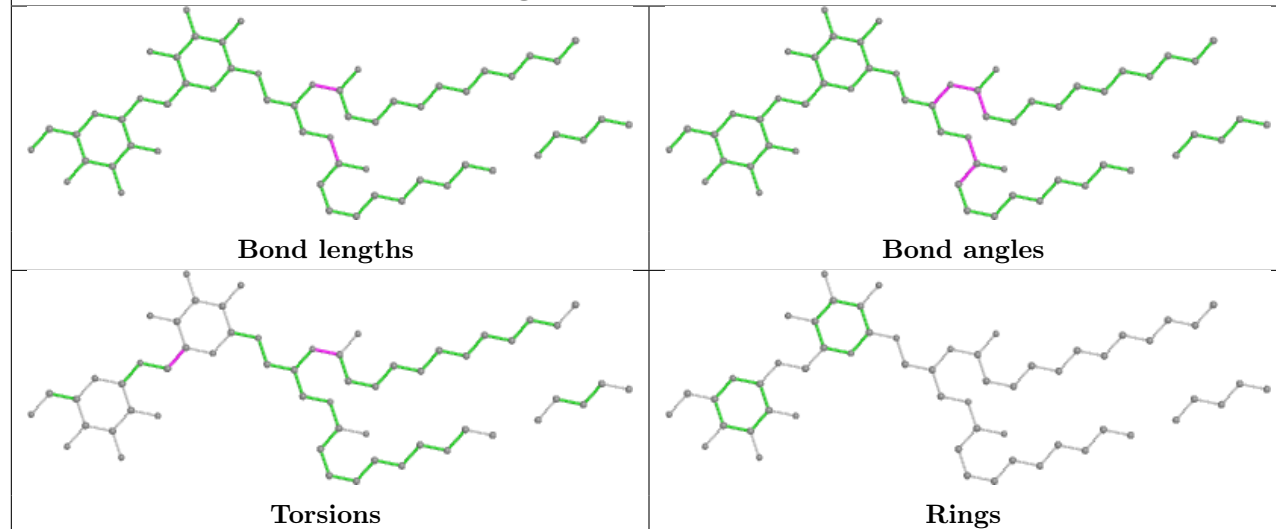




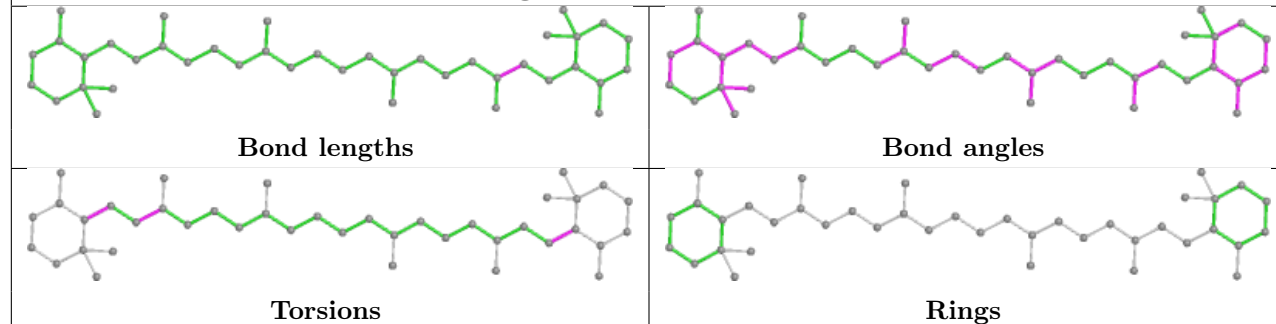
Ligand CLA NN 602

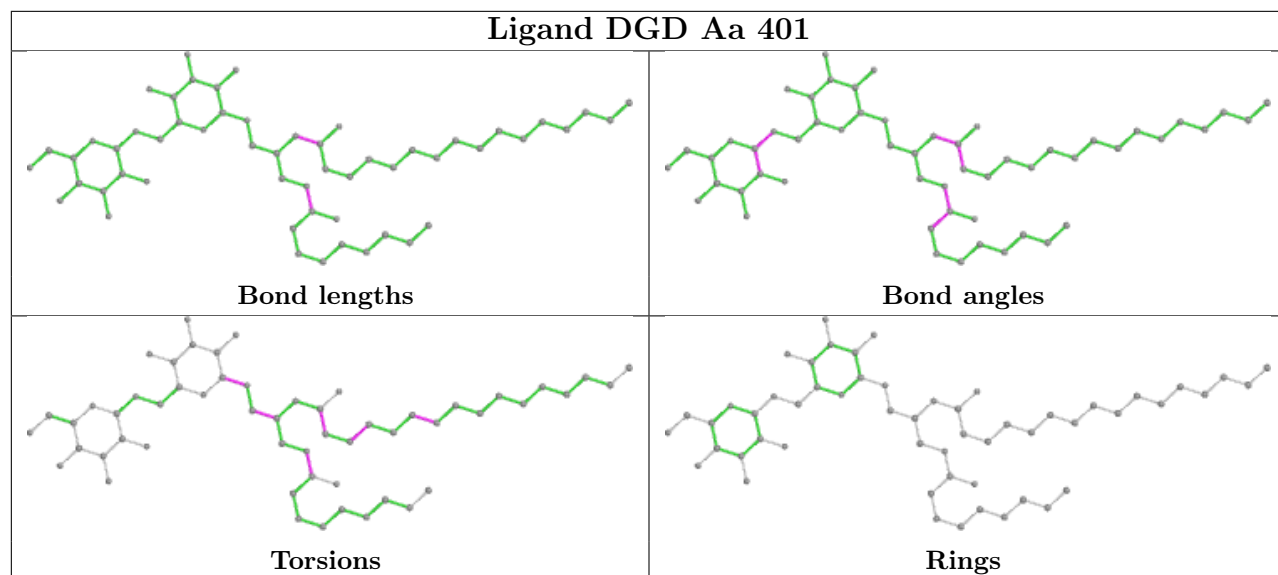
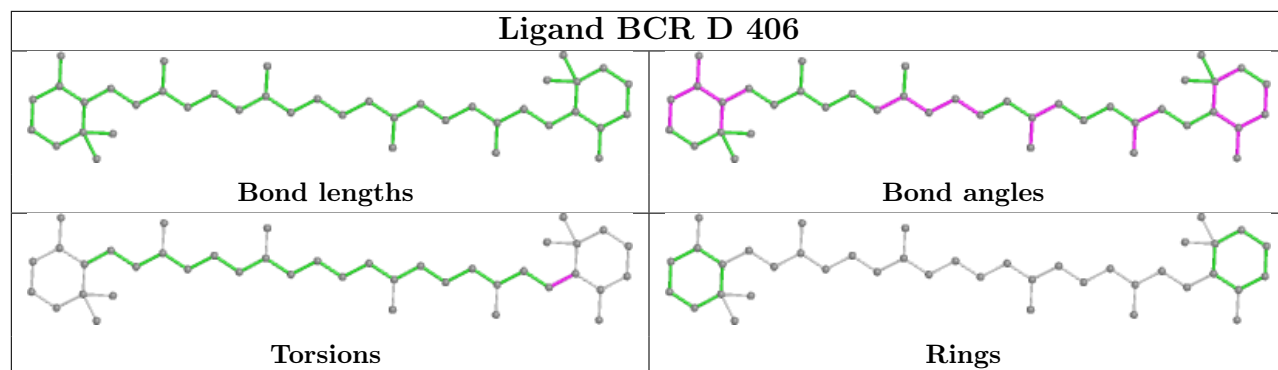


Ligand DGD BB 625

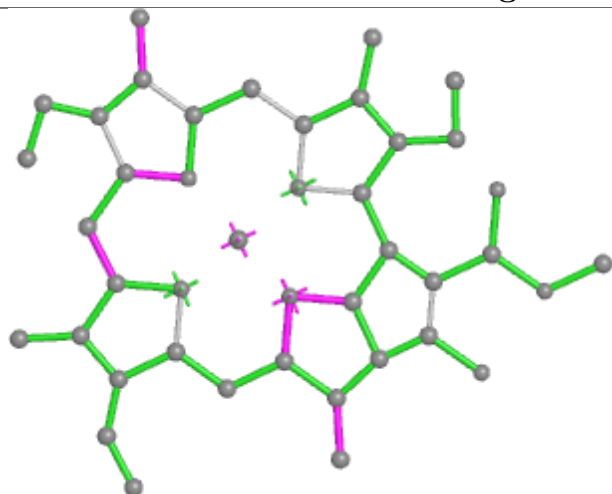


Ligand BCR XX 202

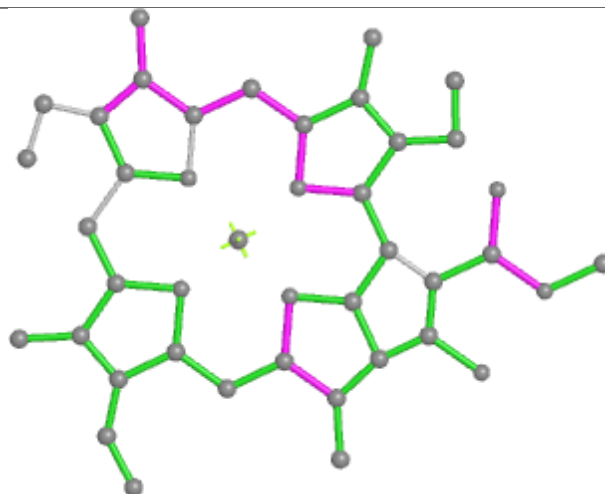




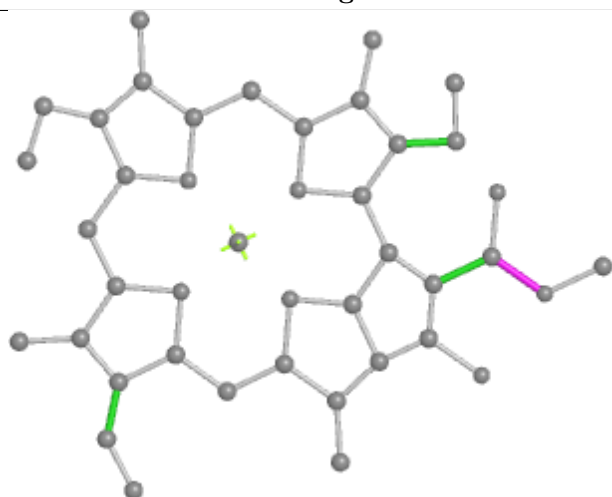
Ligand CLA YY 611



Bond lengths



Bond angles

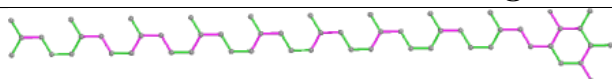


Torsions

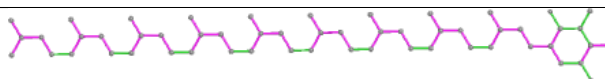


Rings

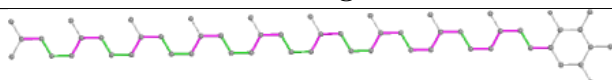
Ligand PL9 AA 410



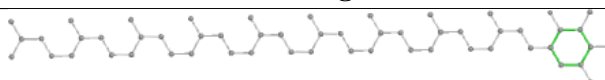
Bond lengths



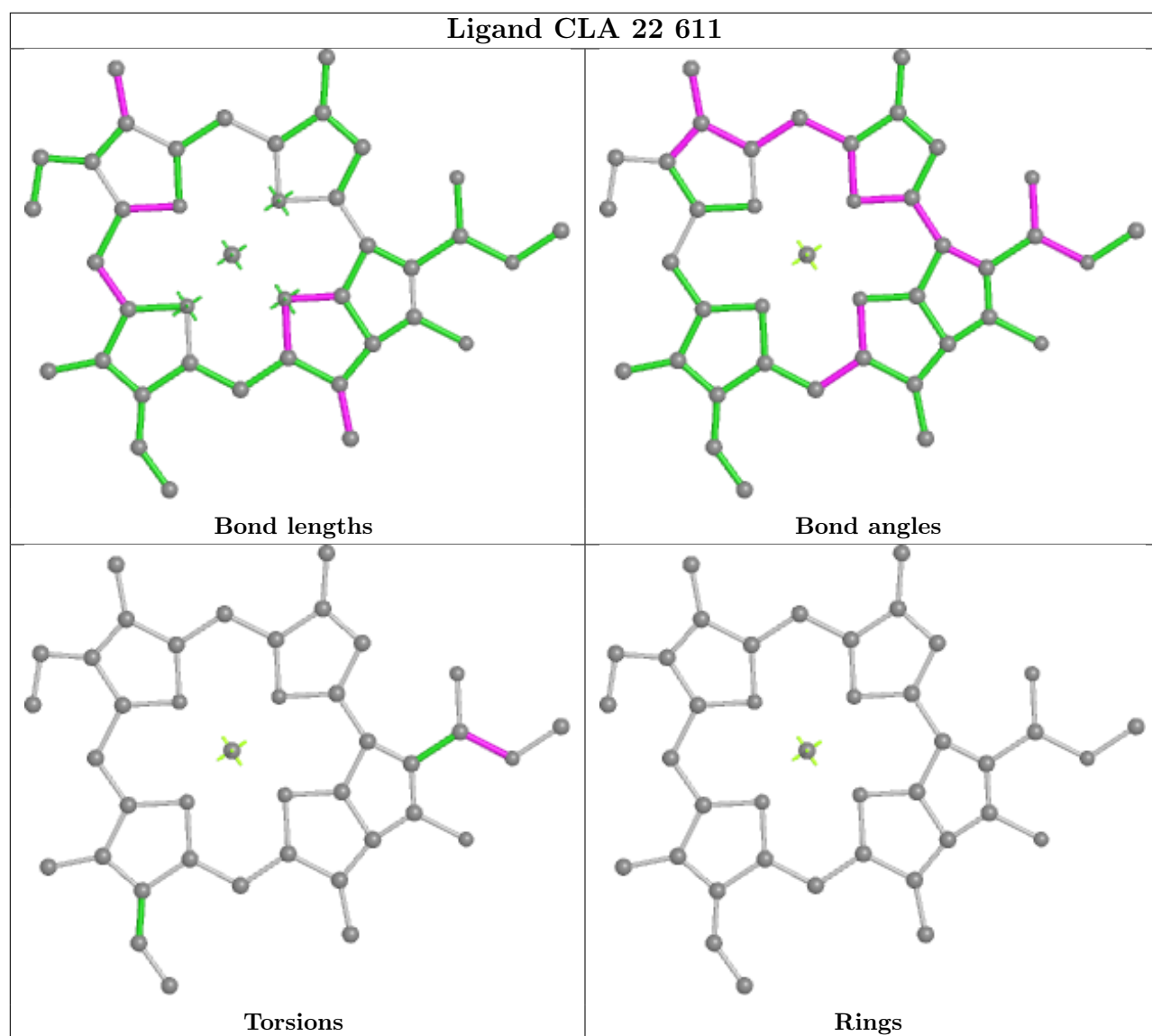
Bond angles

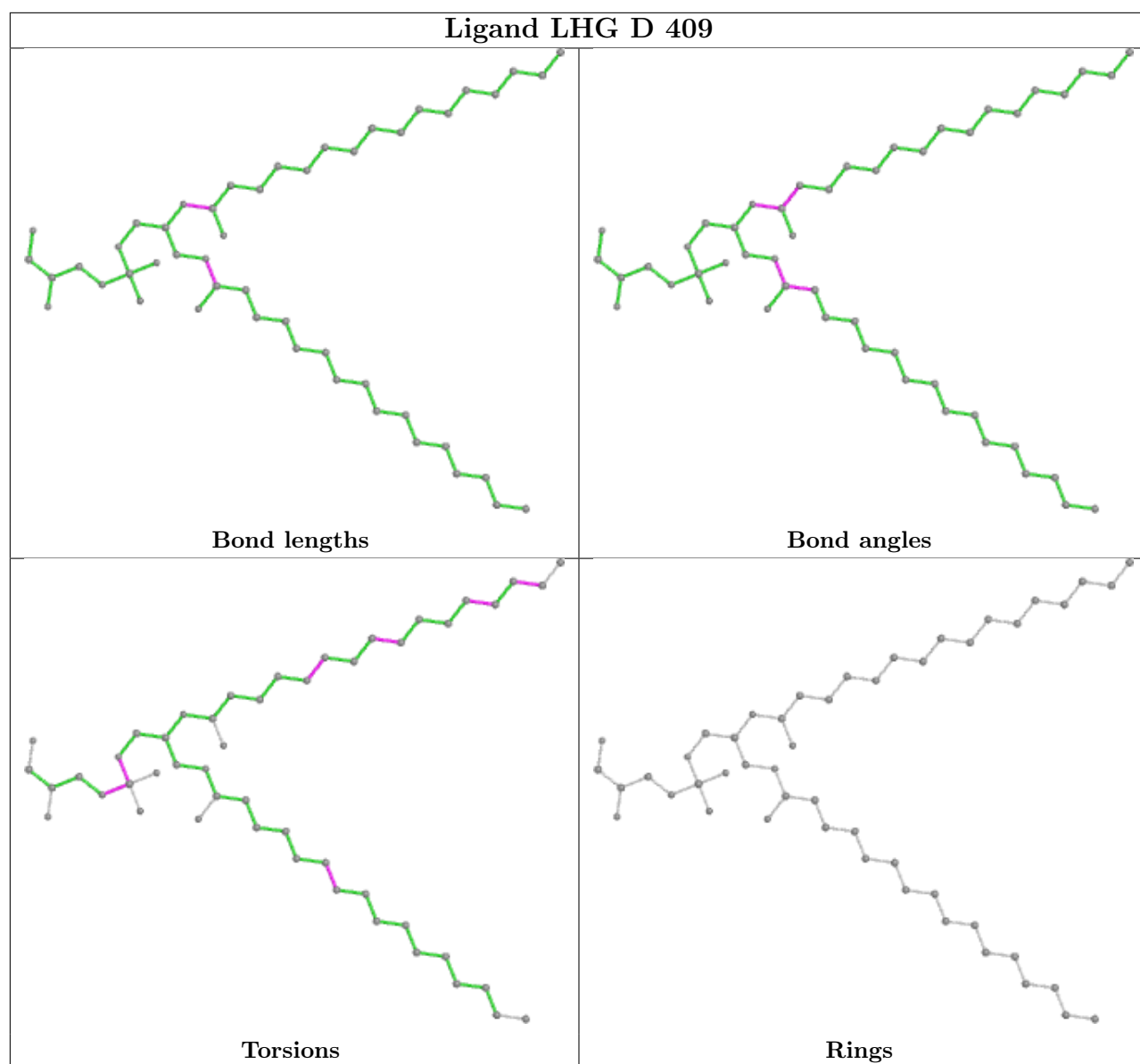


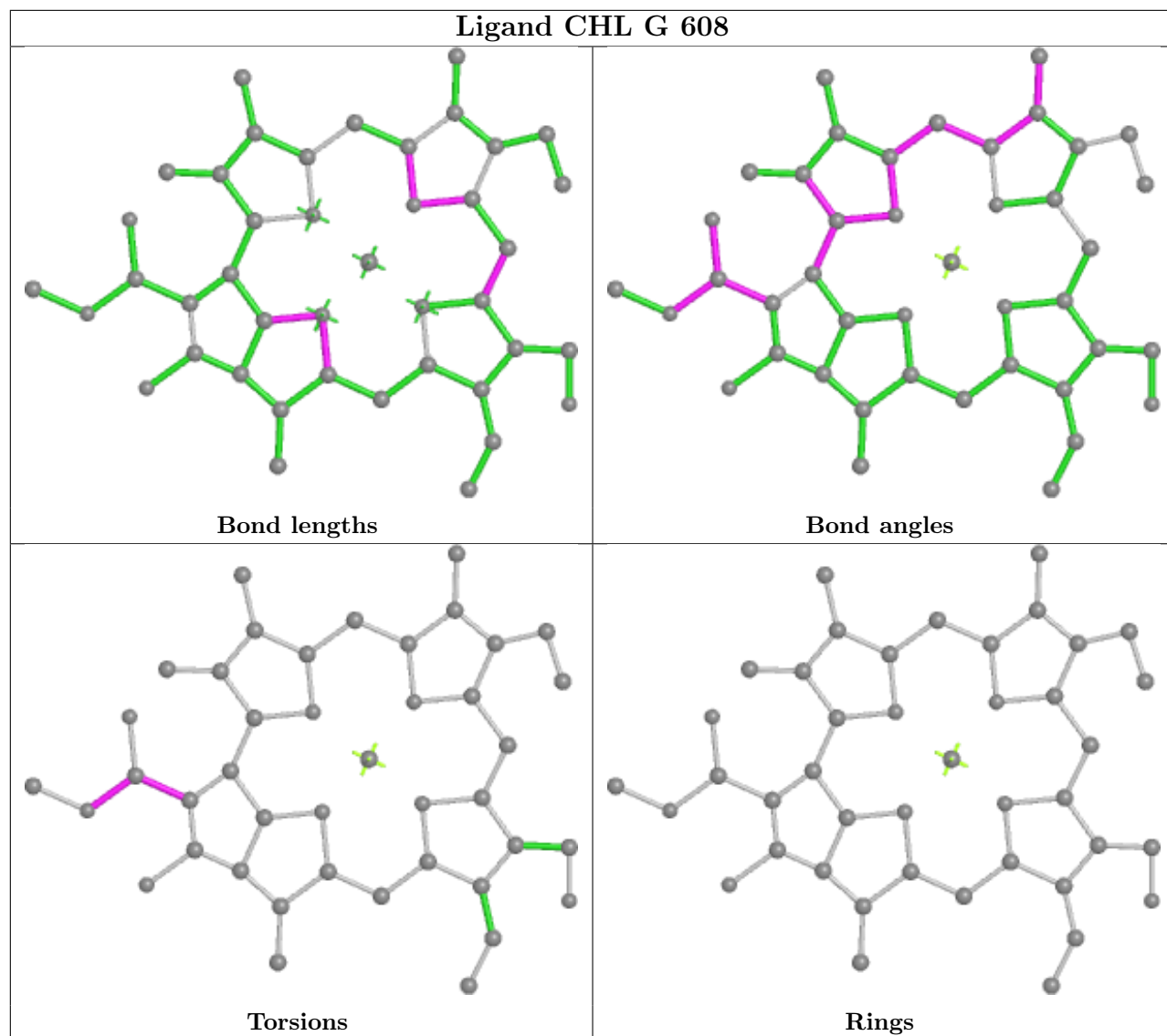
Torsions



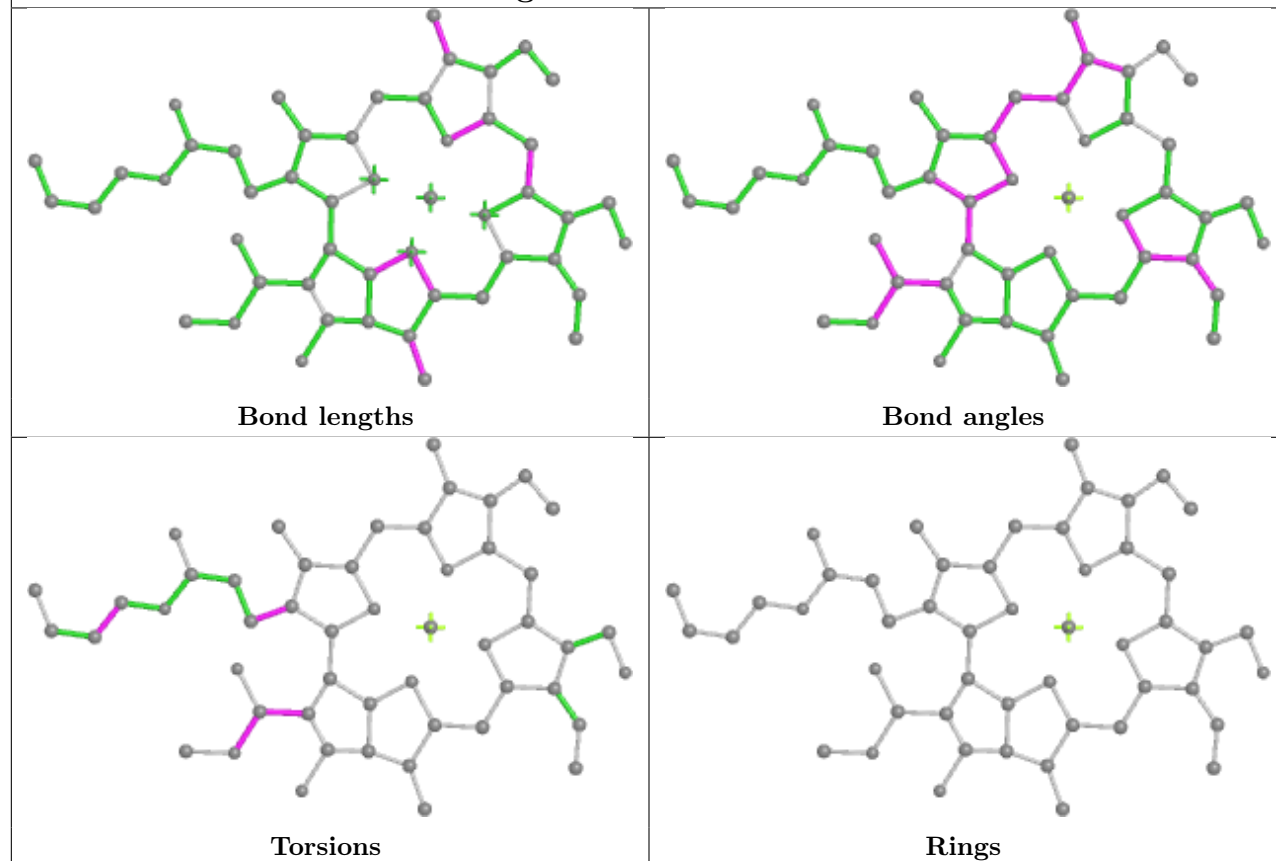
Rings



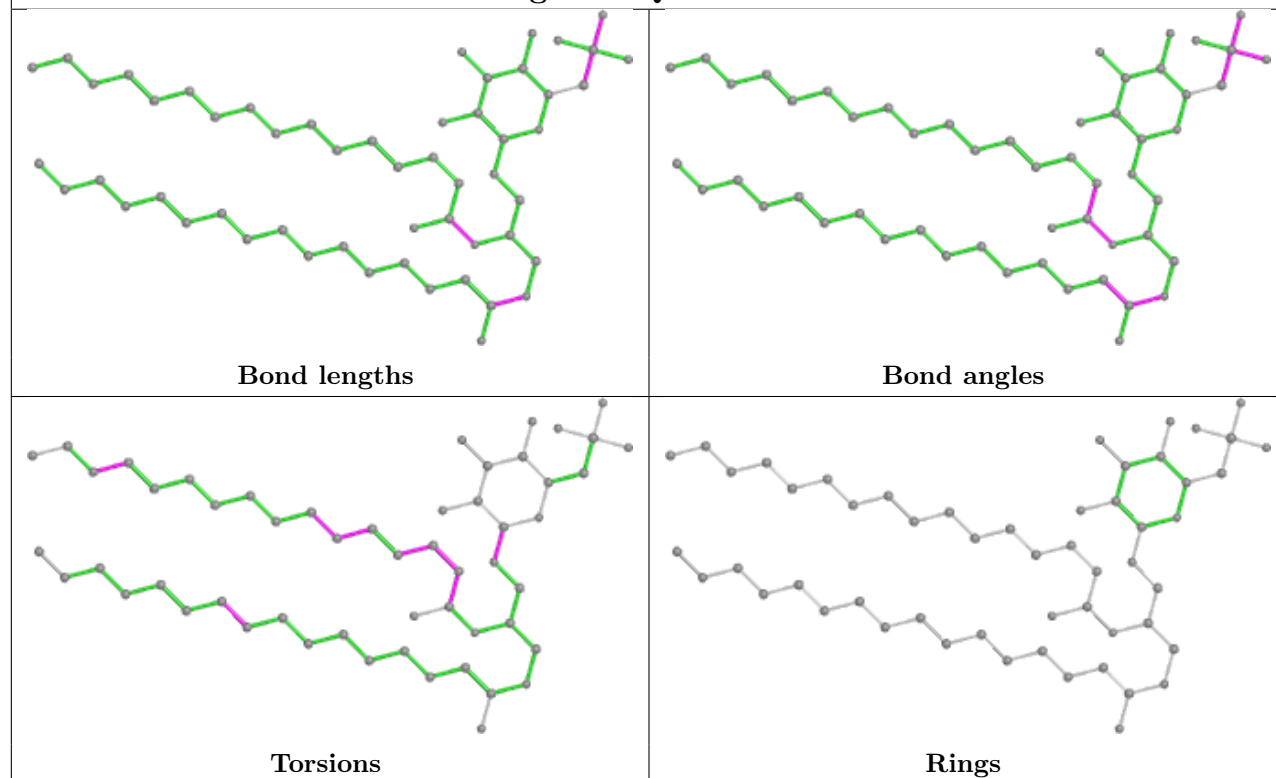




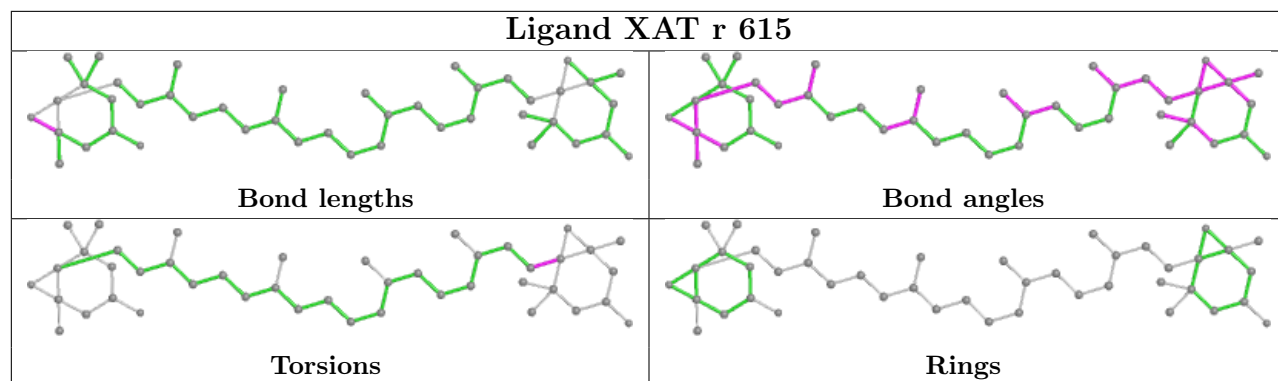
Ligand CHL NN 609



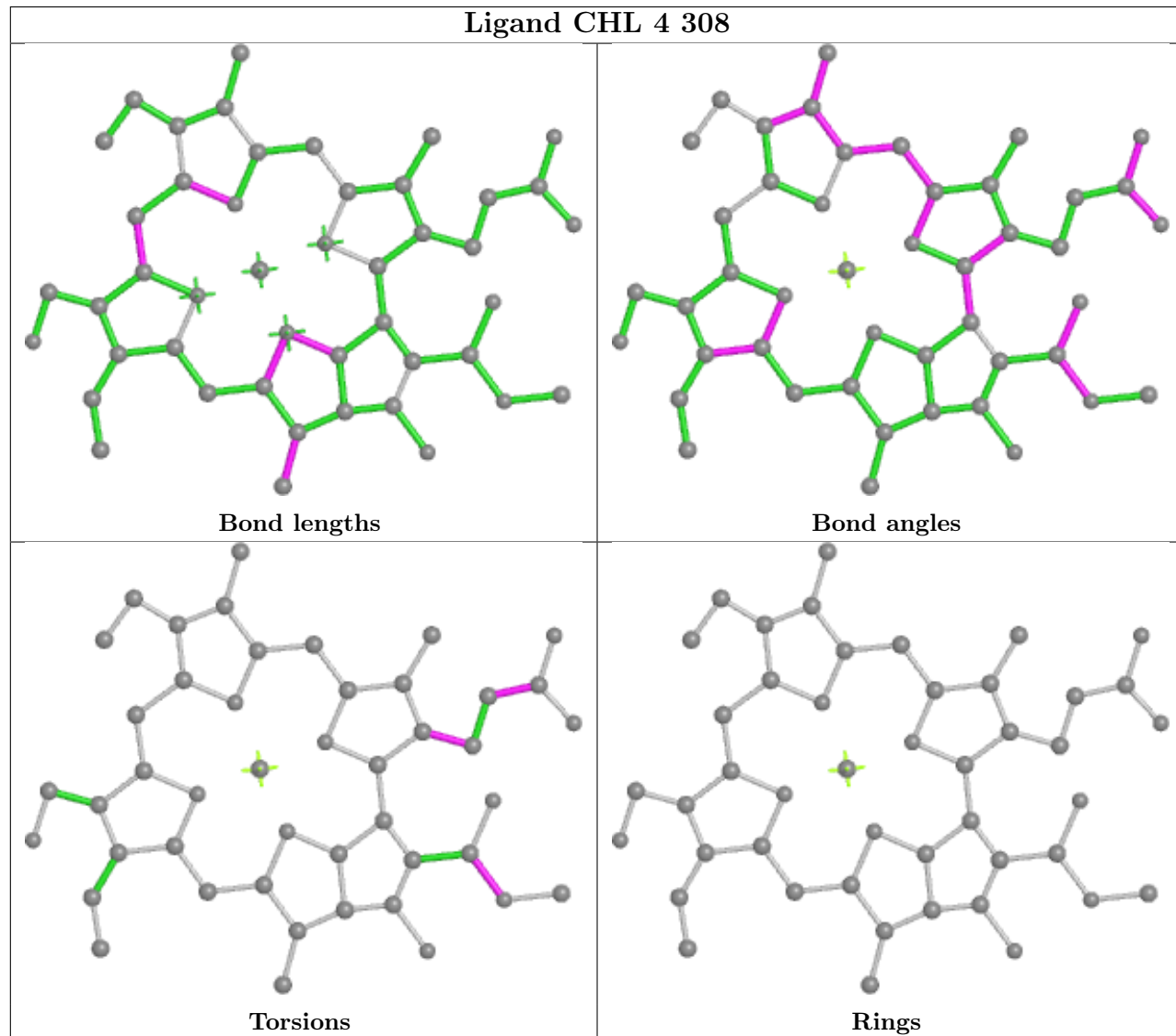
Ligand SQD Ll 101

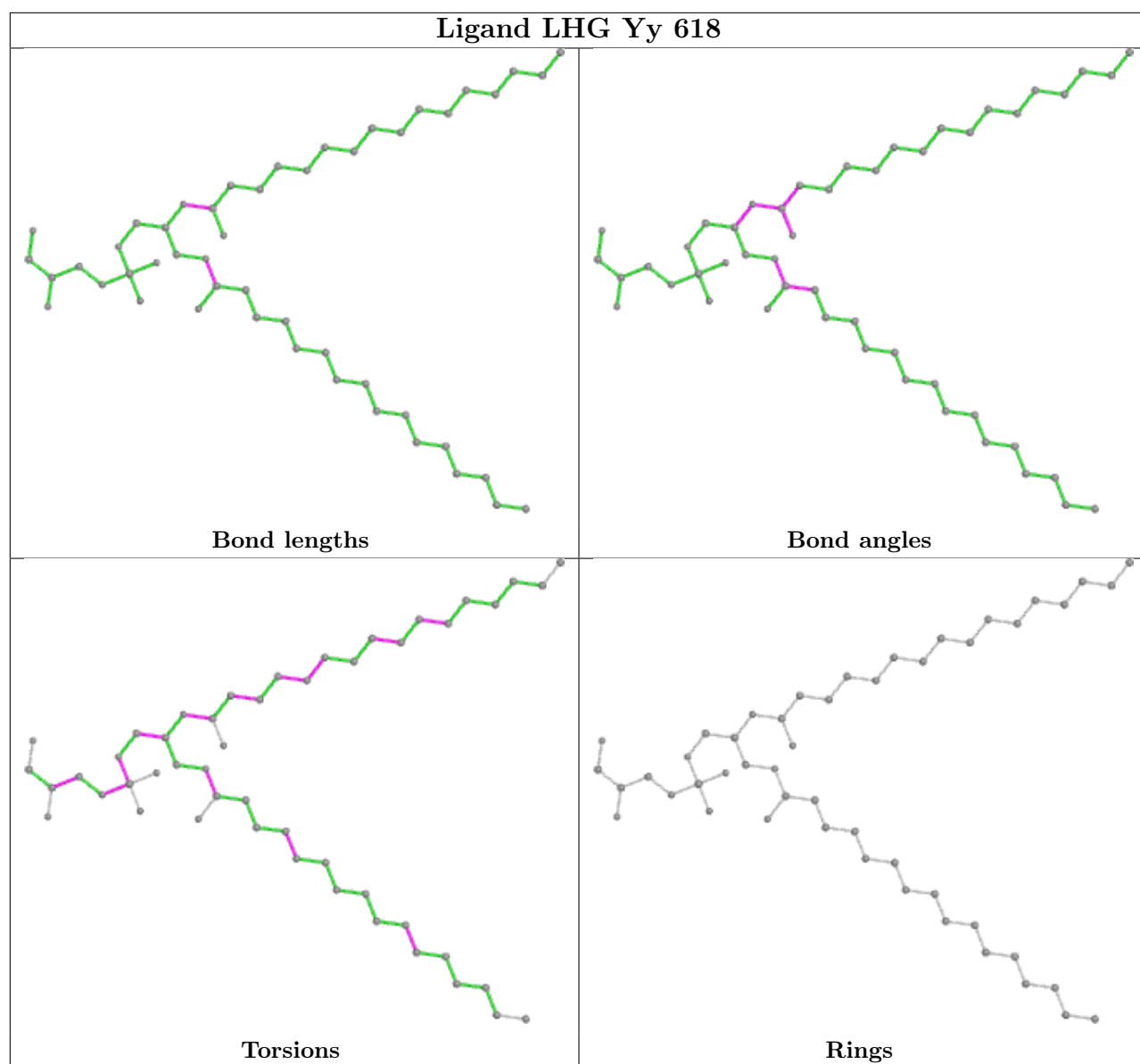


Ligand XAT r 615

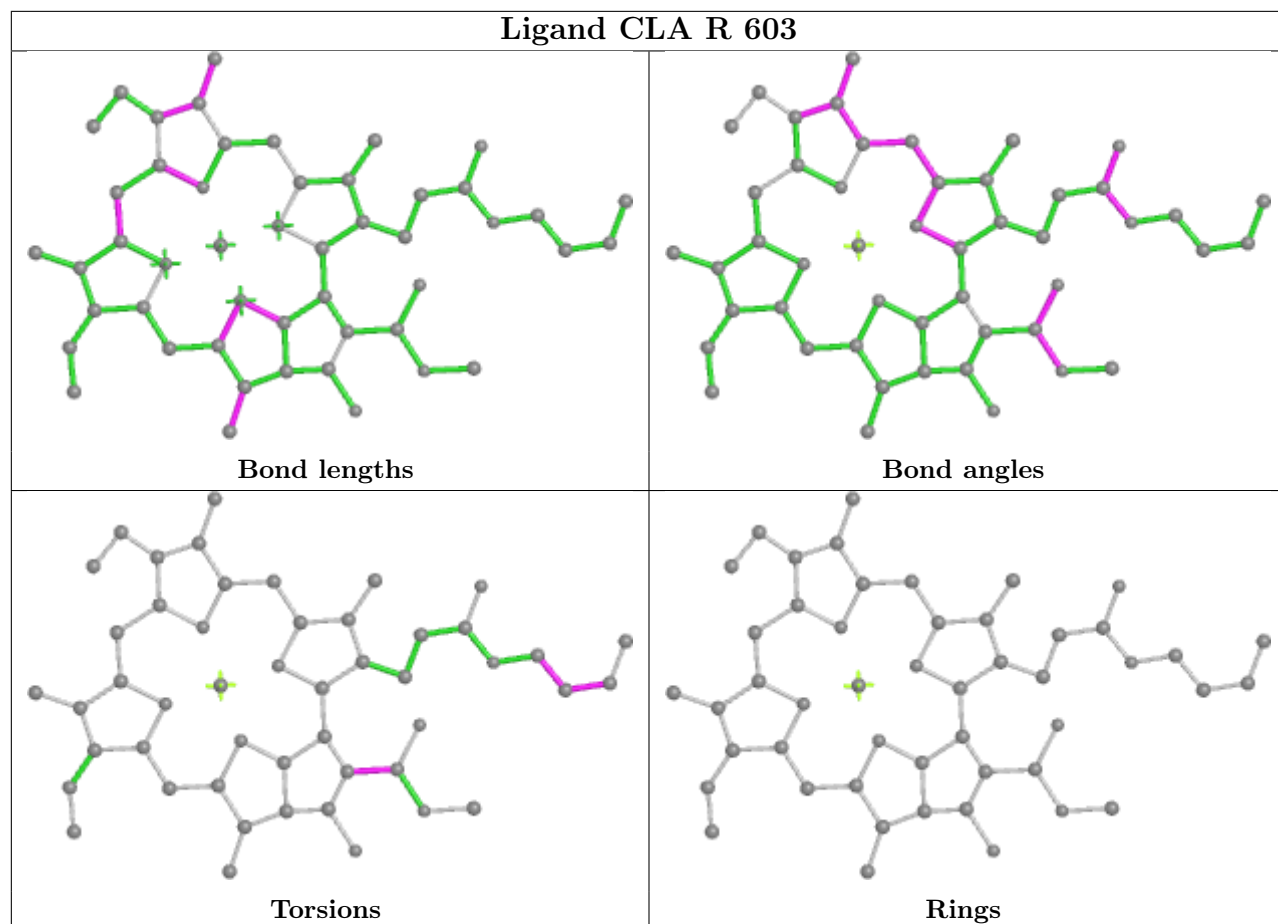


Ligand CHL 4 308

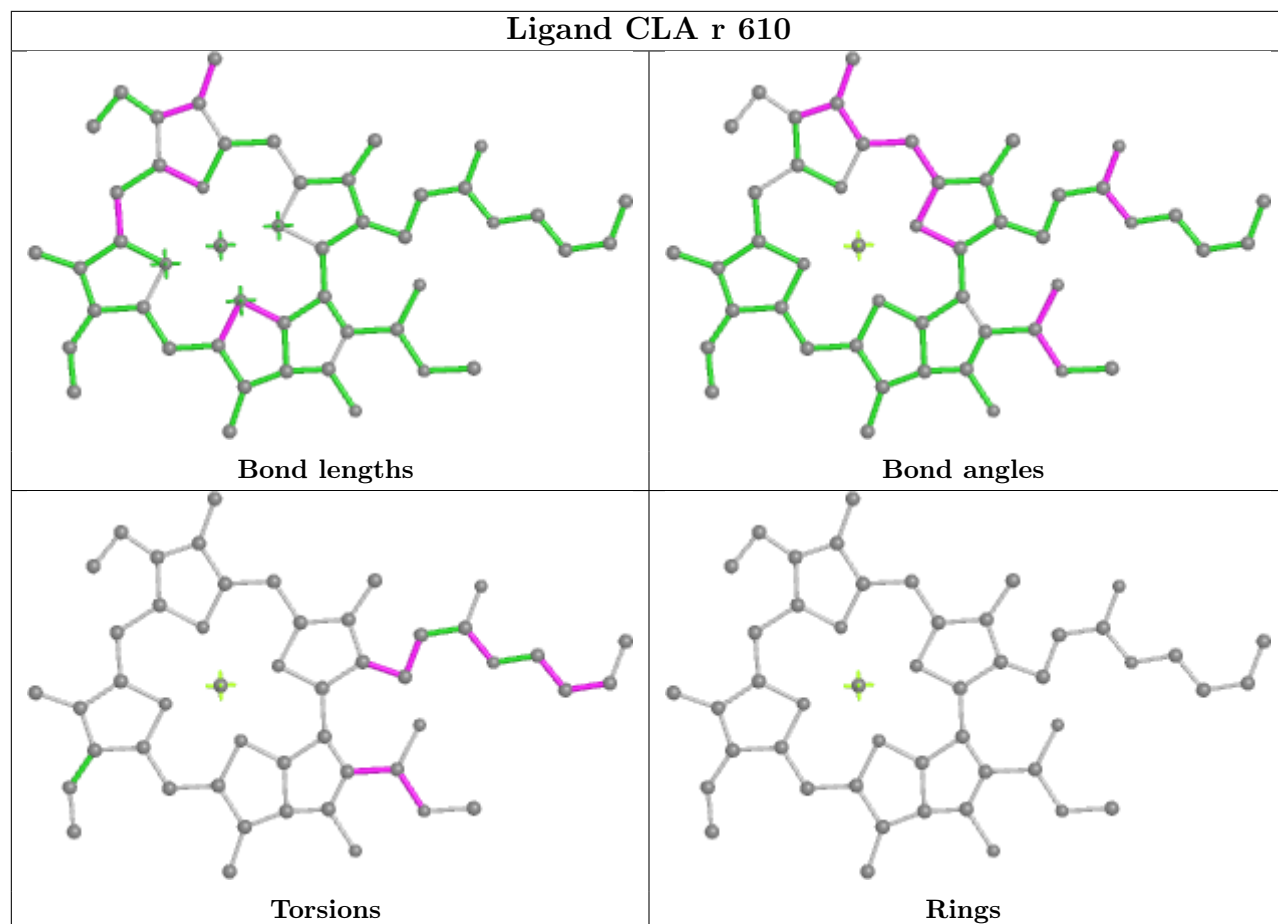


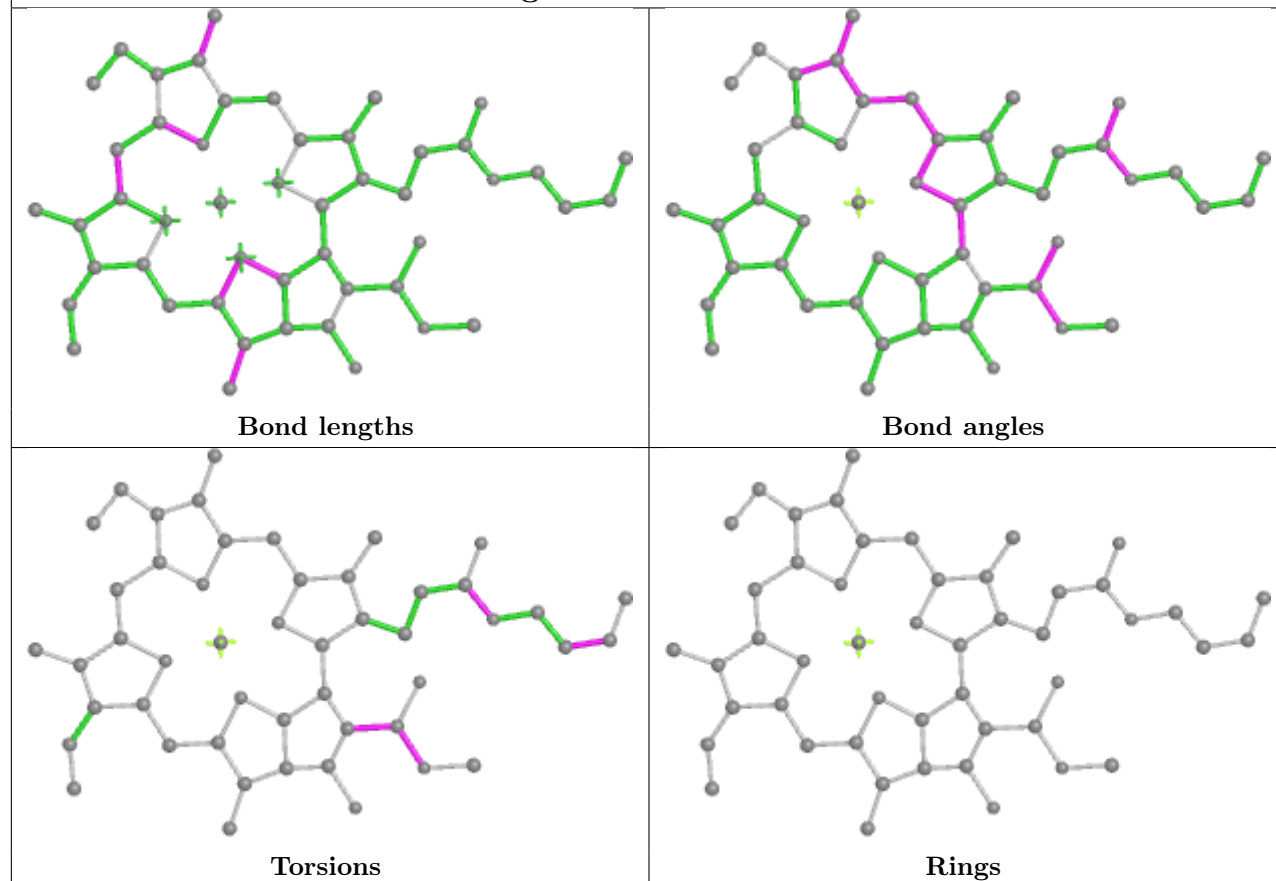
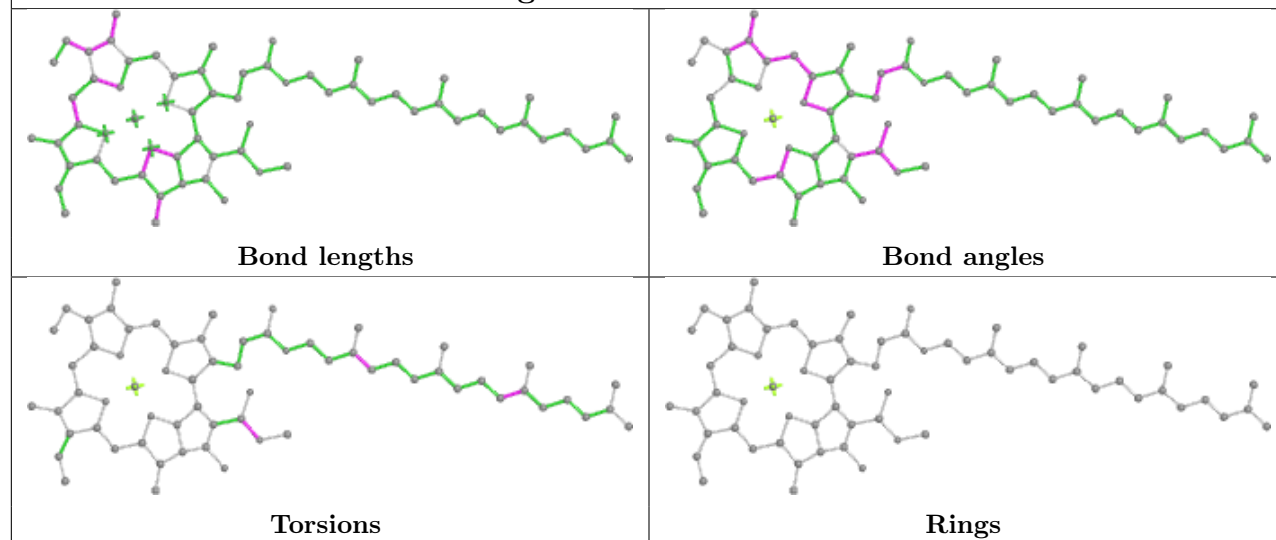


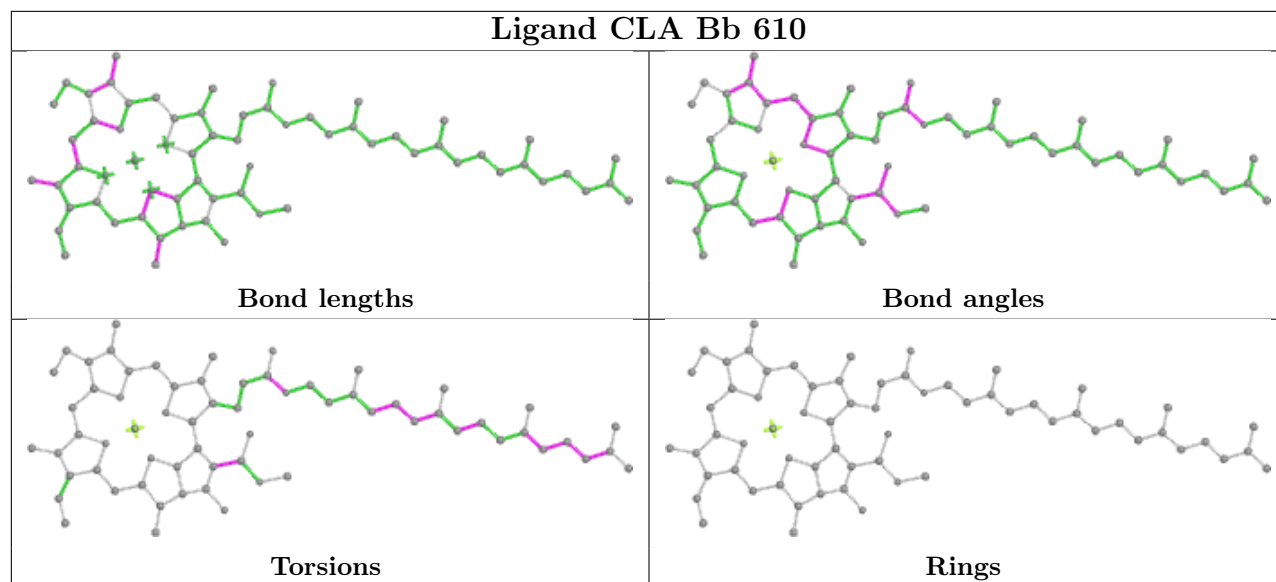
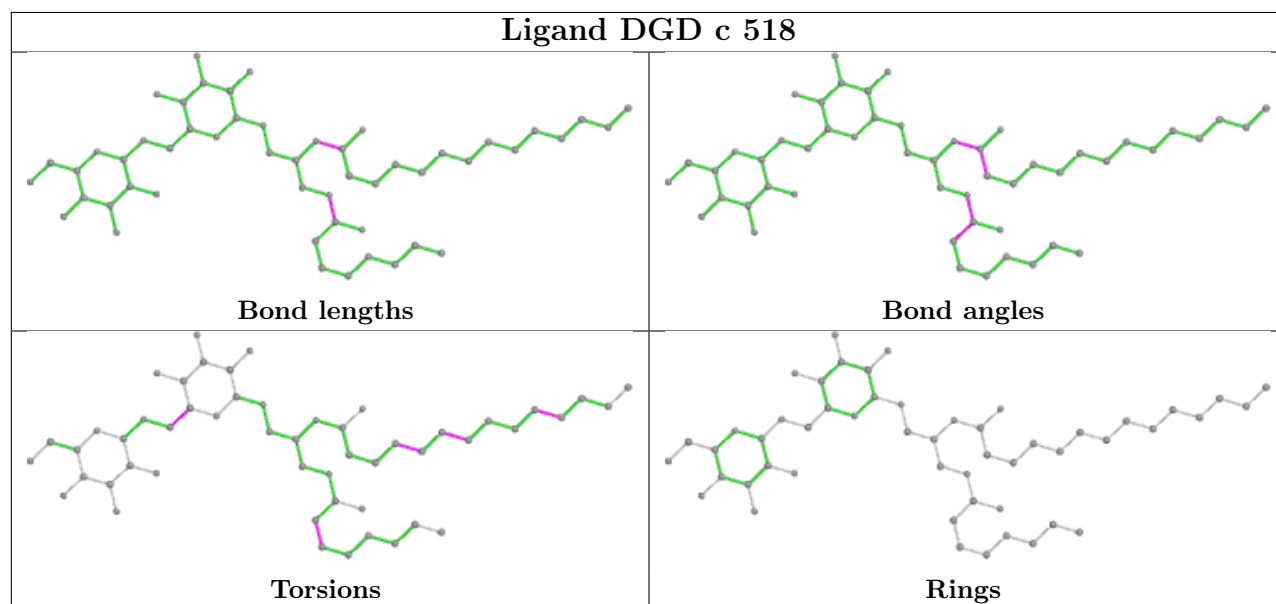
Ligand CLA R 603

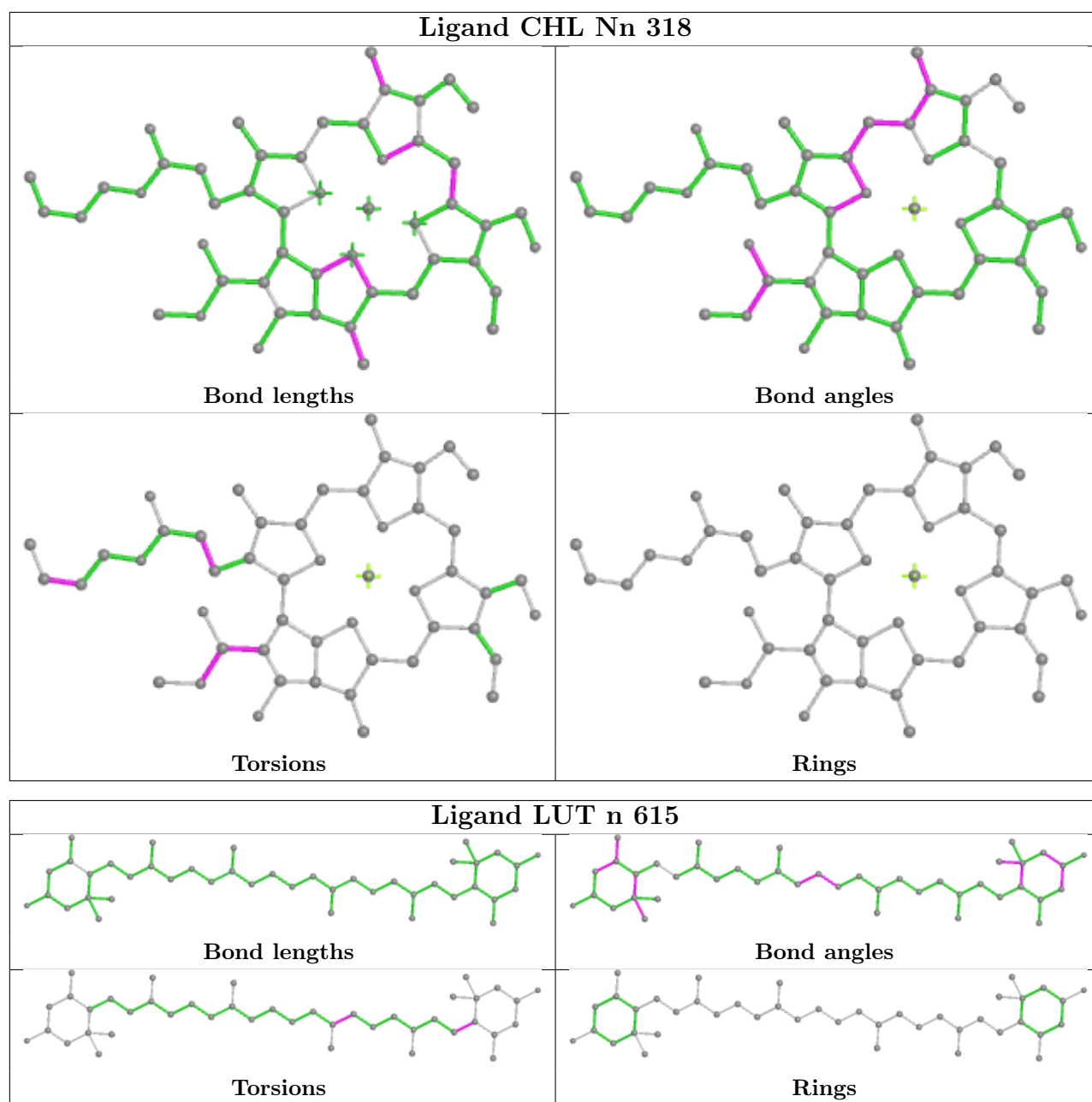


Ligand CLA r 610

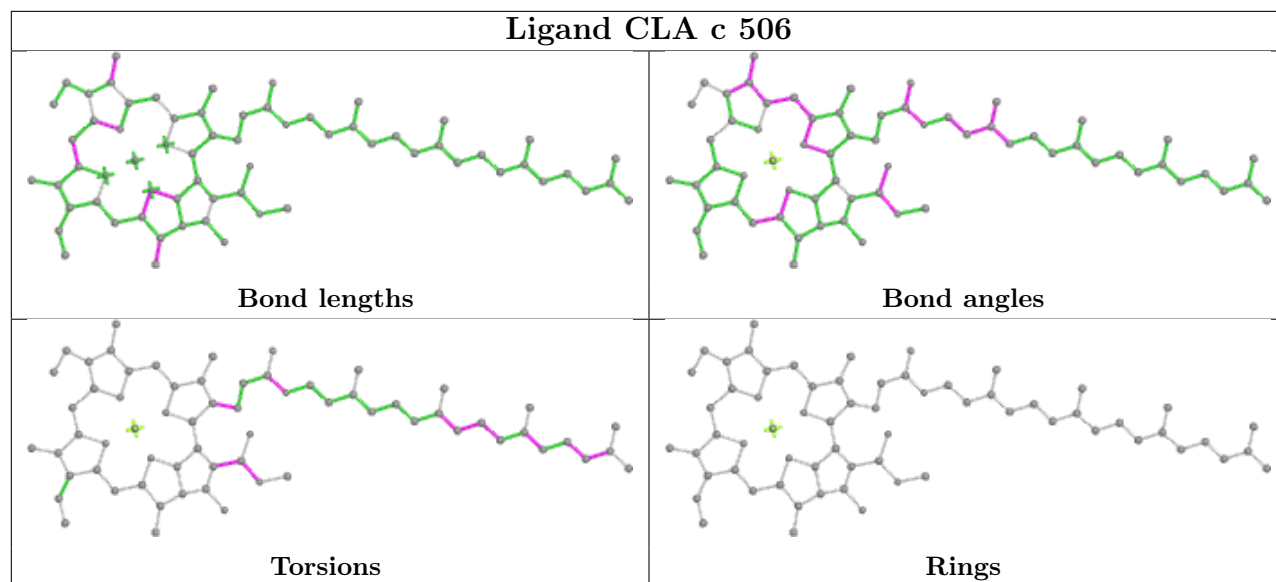


Ligand CLA Nn 303**Ligand CLA DD 401**

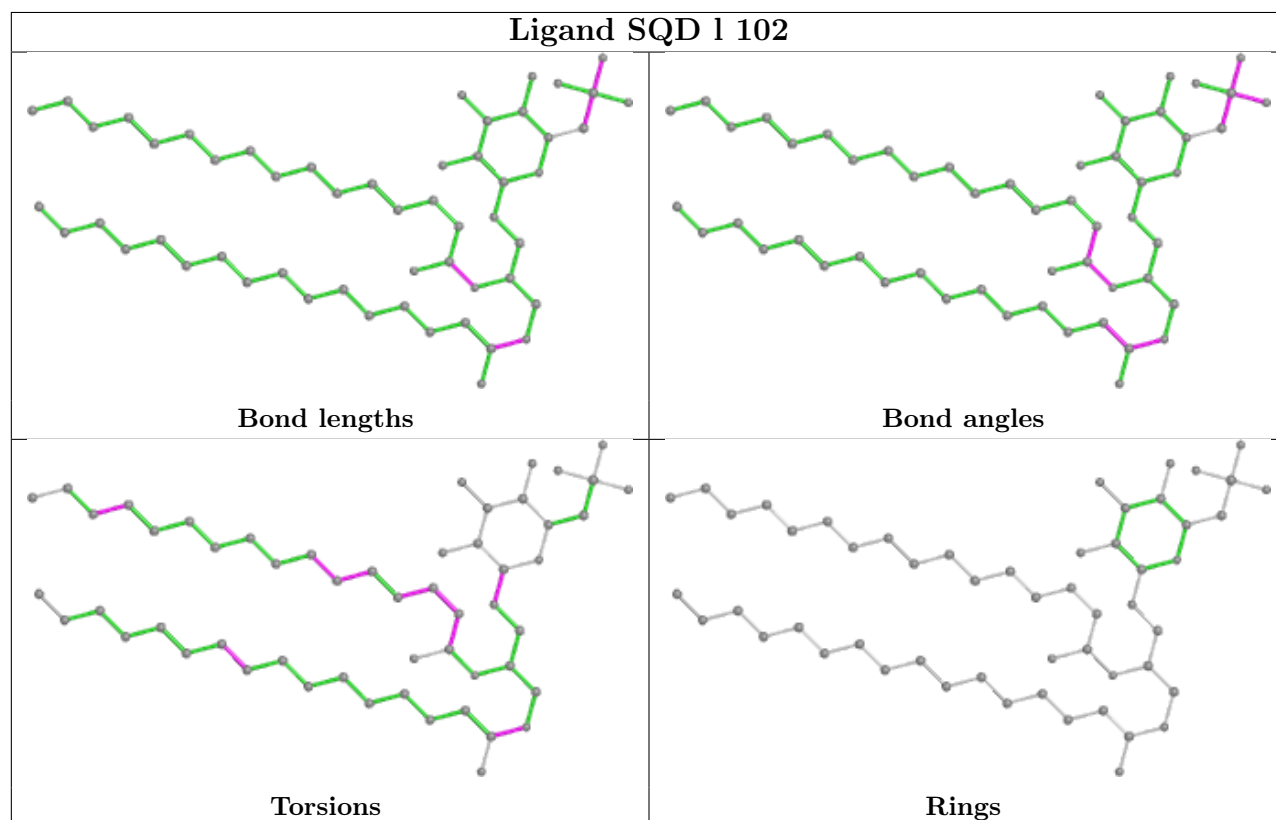
Ligand CLA Bb 610**Ligand DGD c 518**

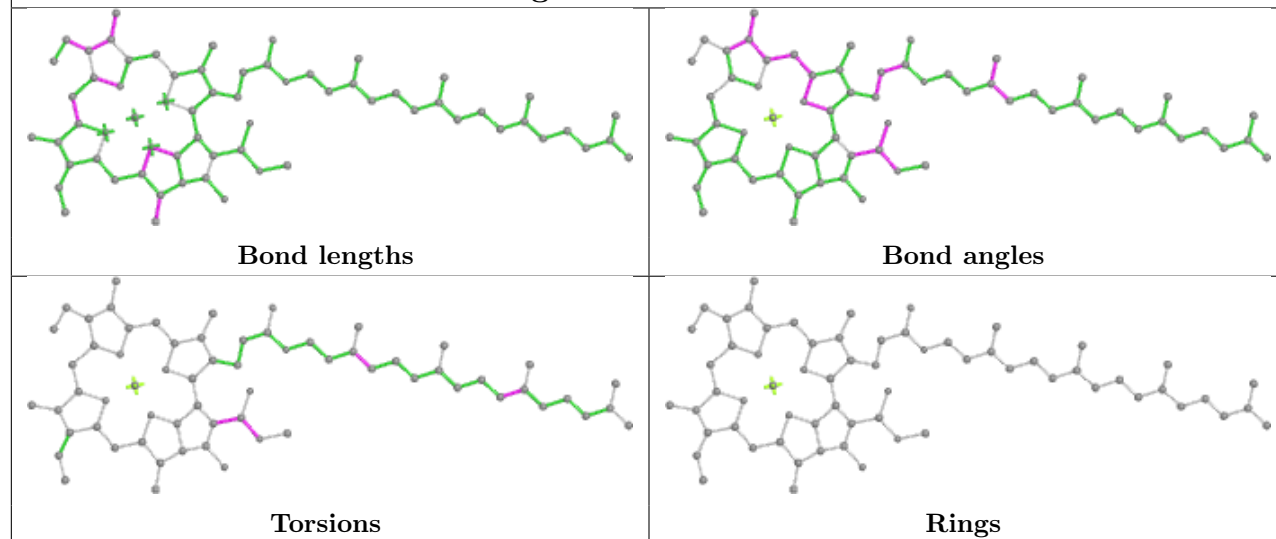
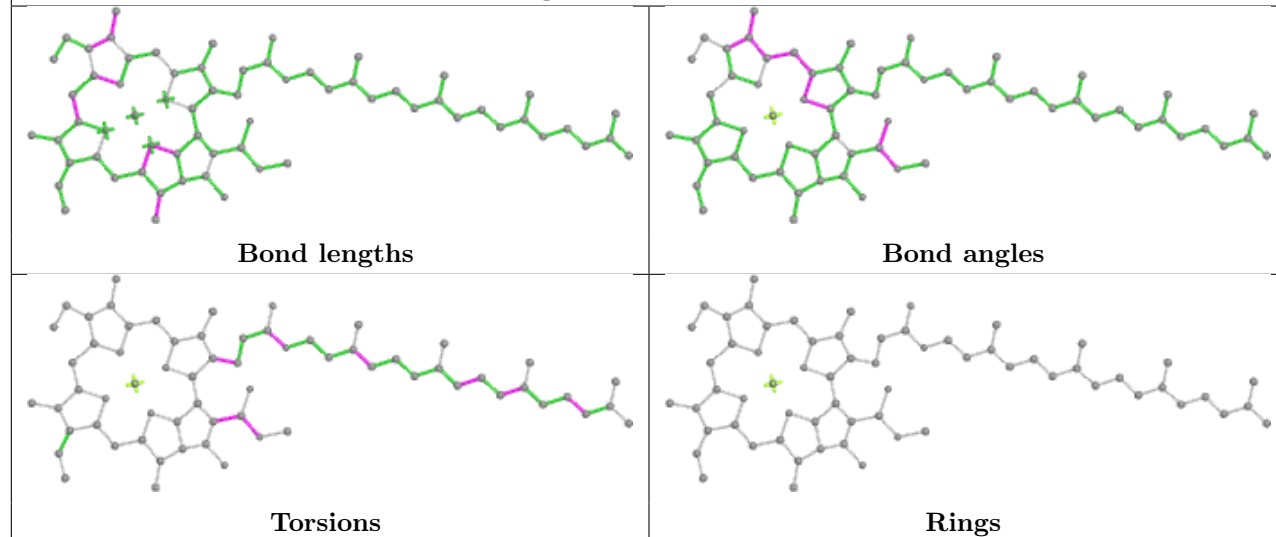


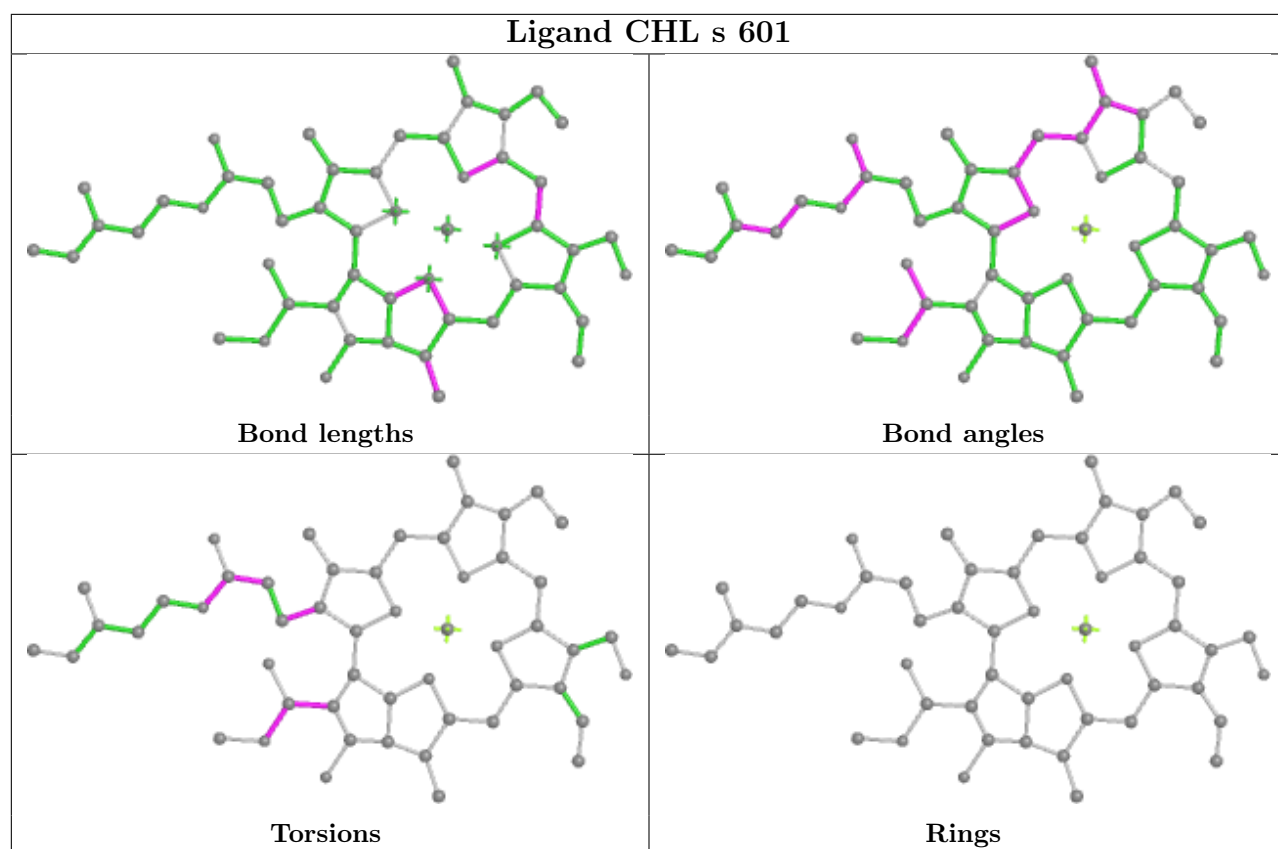
Ligand CLA c 506

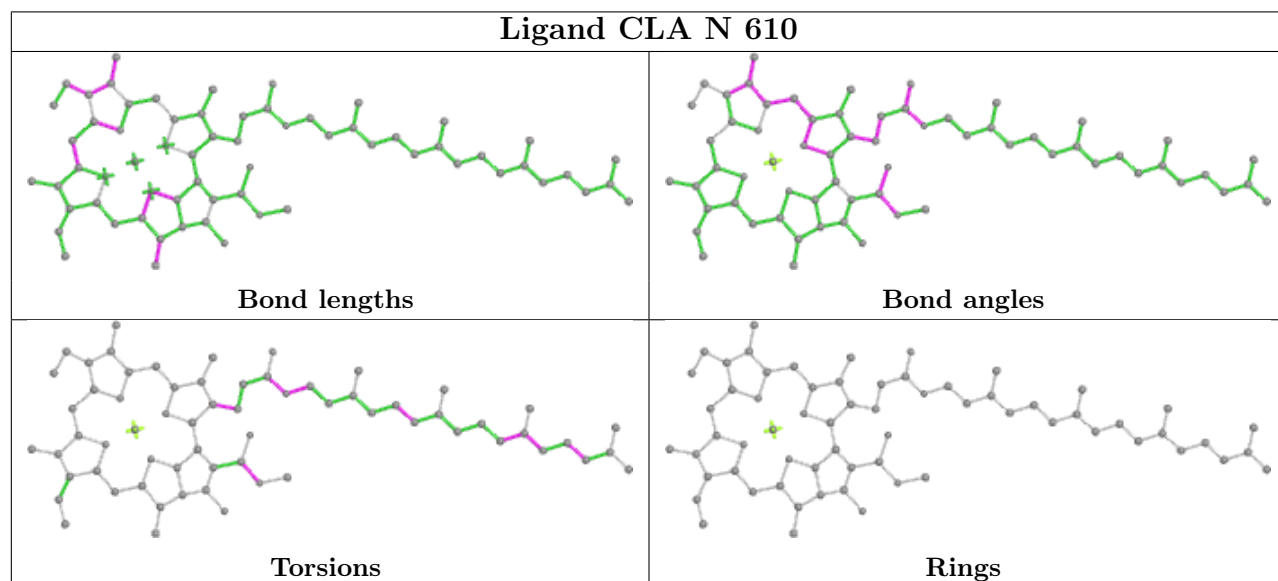
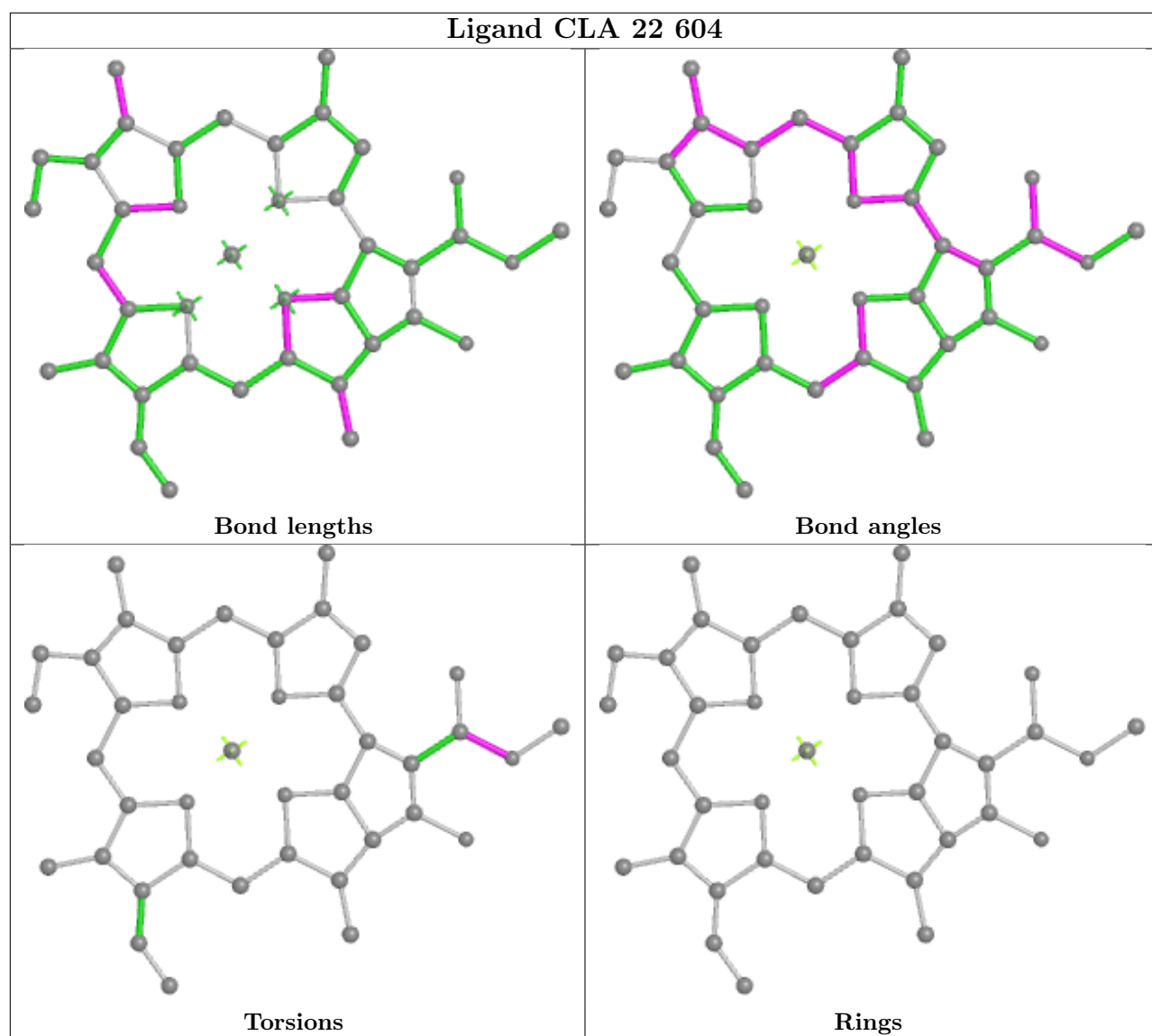


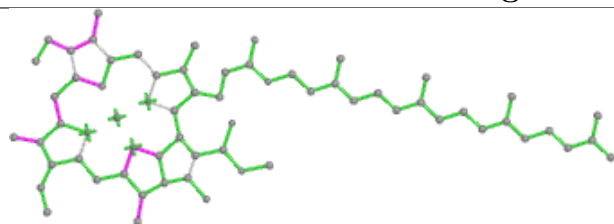
Ligand SQD 1 102



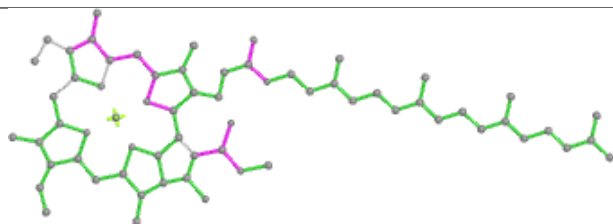
Ligand CLA D 401**Ligand CLA r 609**



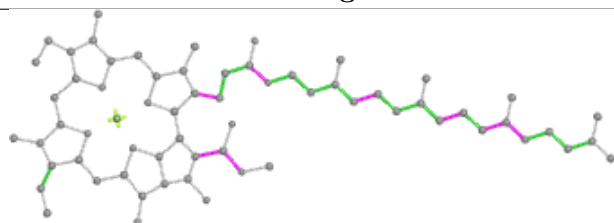


Ligand CLA BB 603

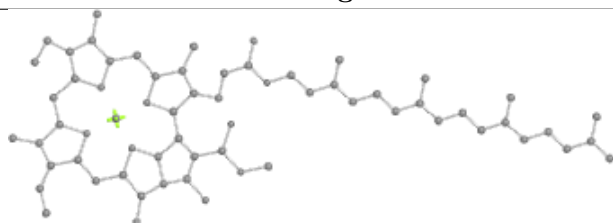
Bond lengths



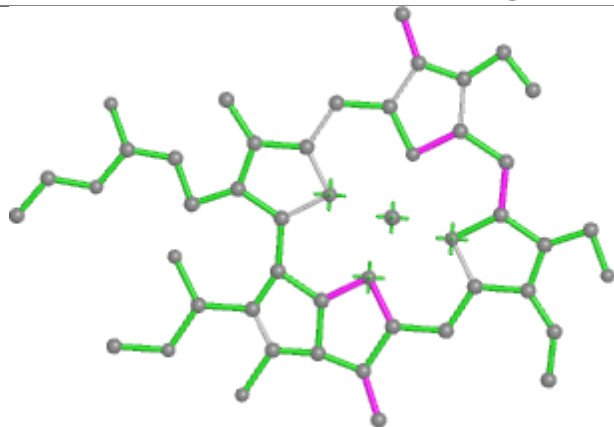
Bond angles



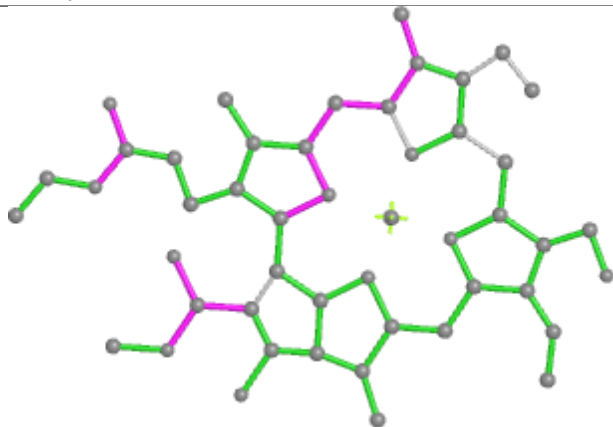
Torsions



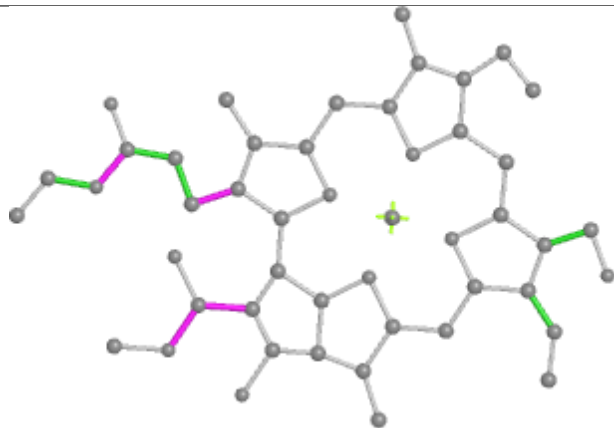
Rings

Ligand CHL Yy 605

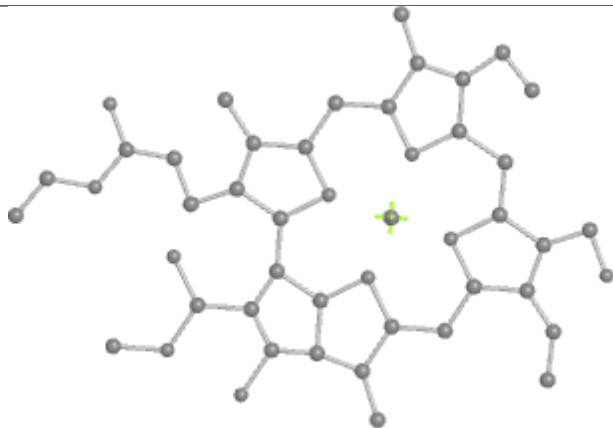
Bond lengths



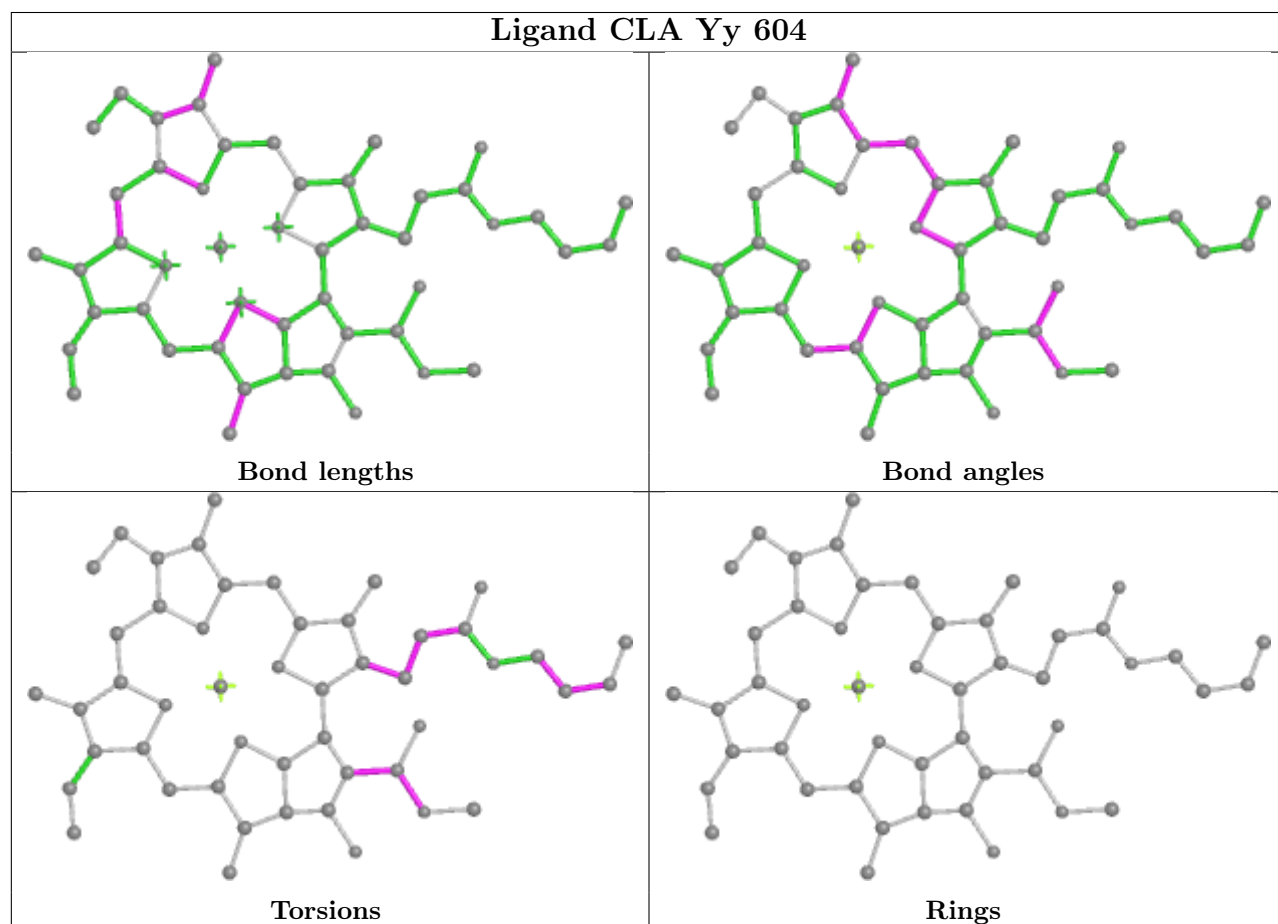
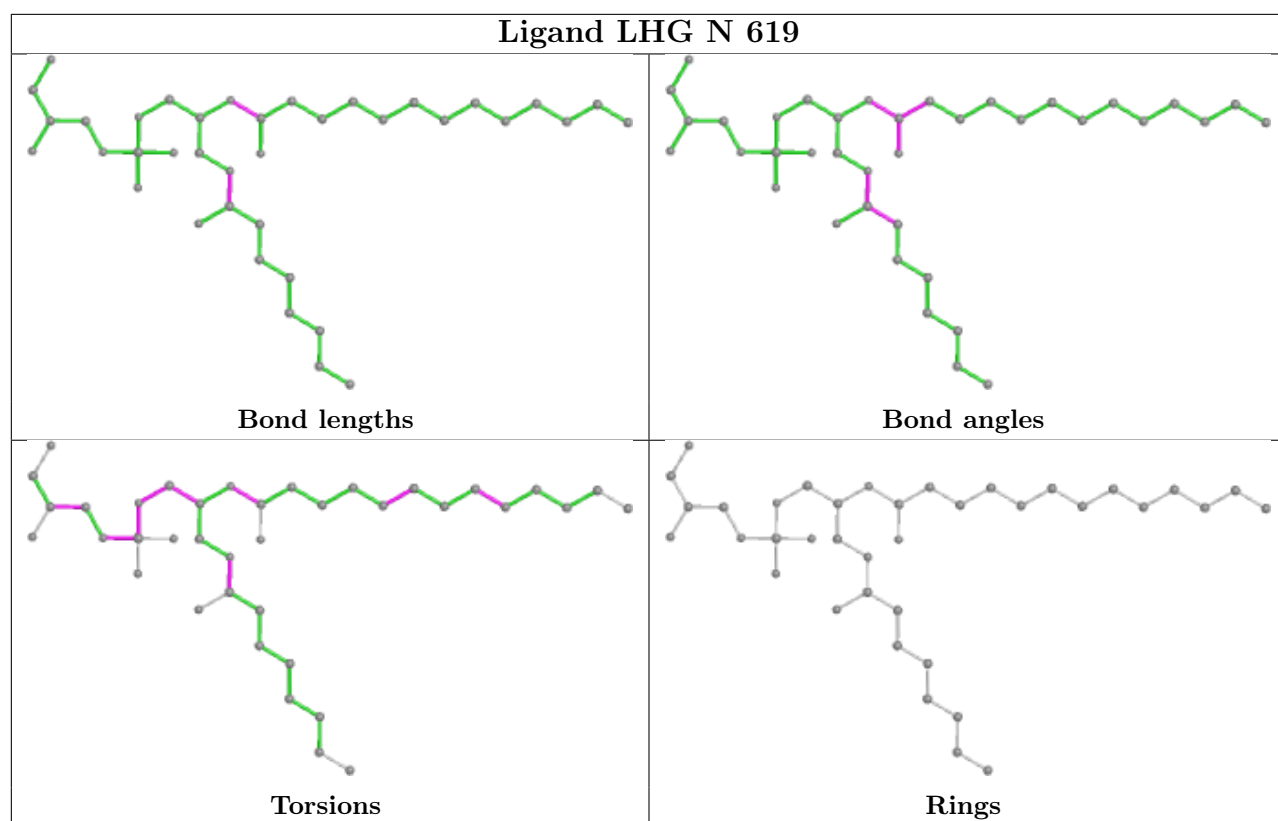
Bond angles

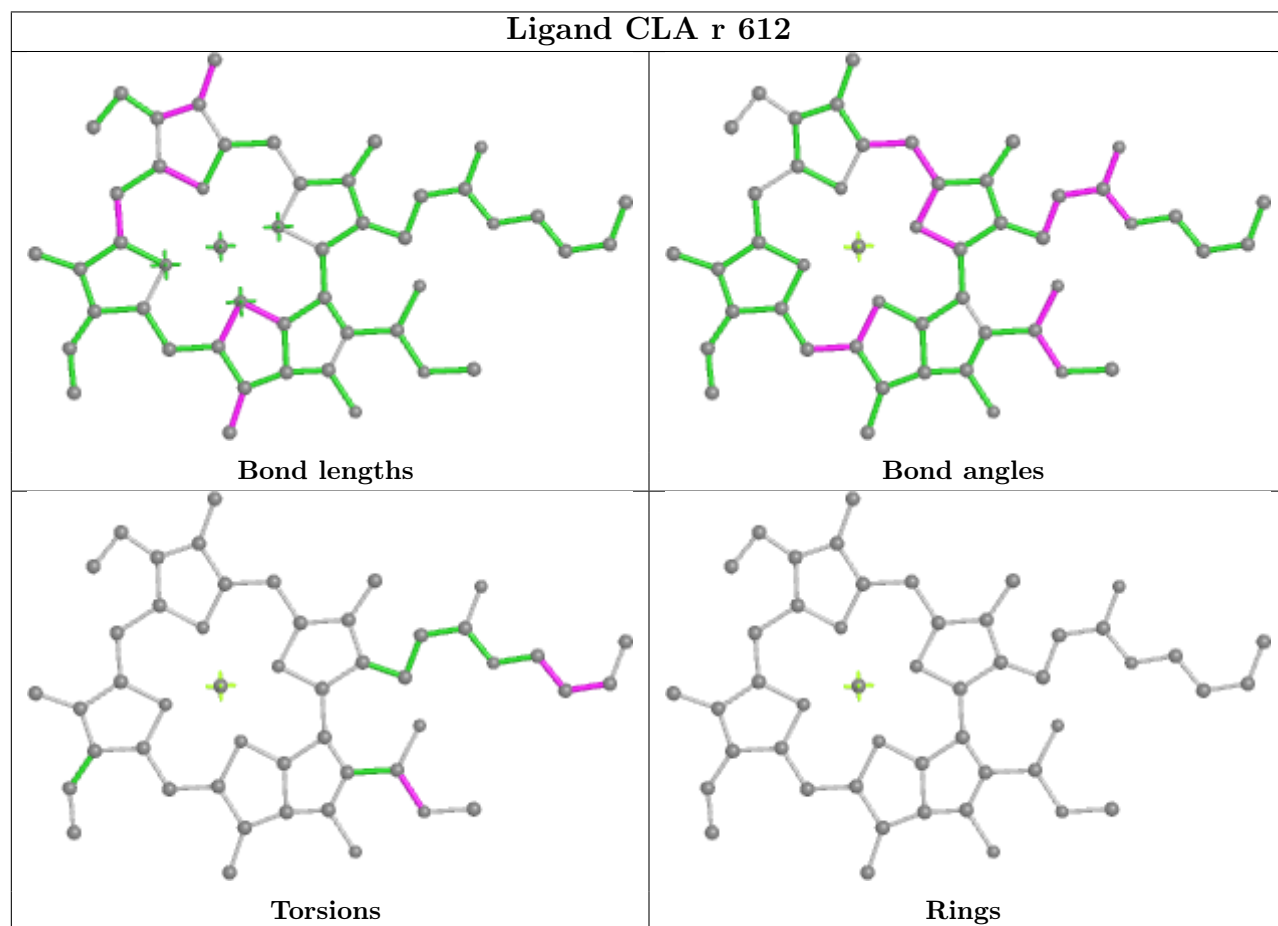
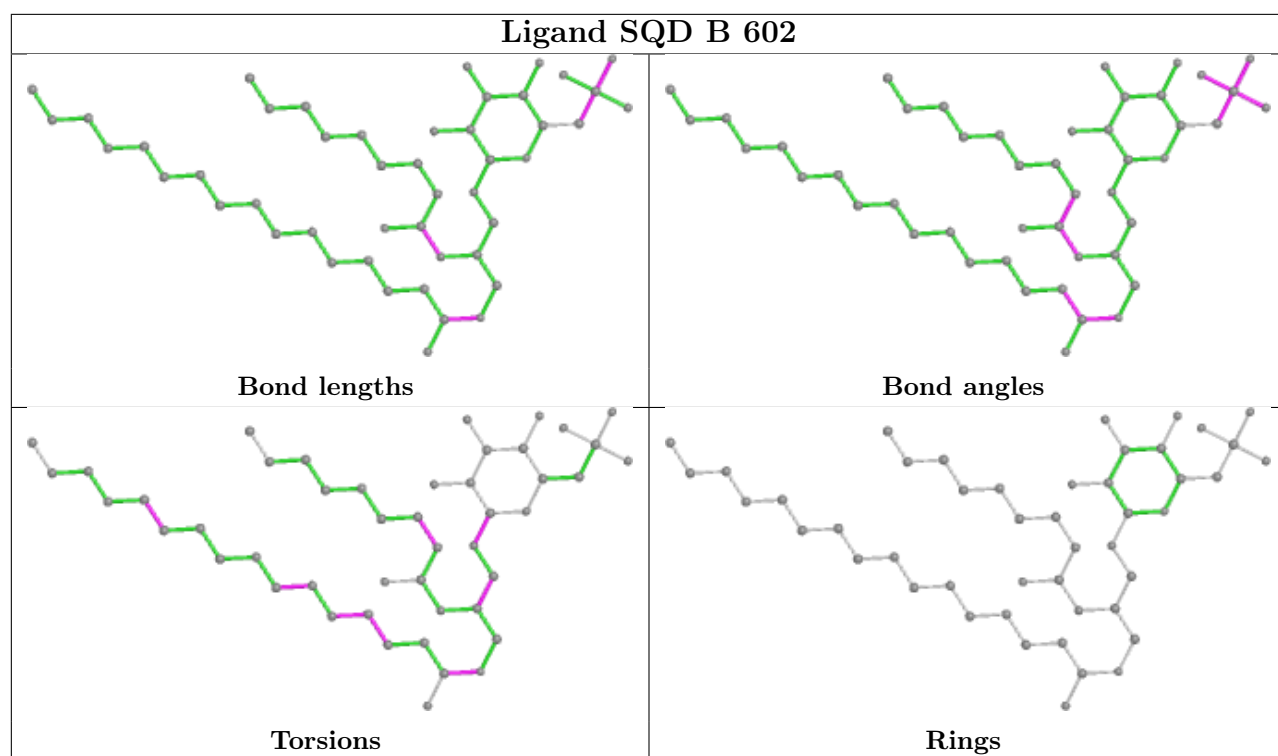


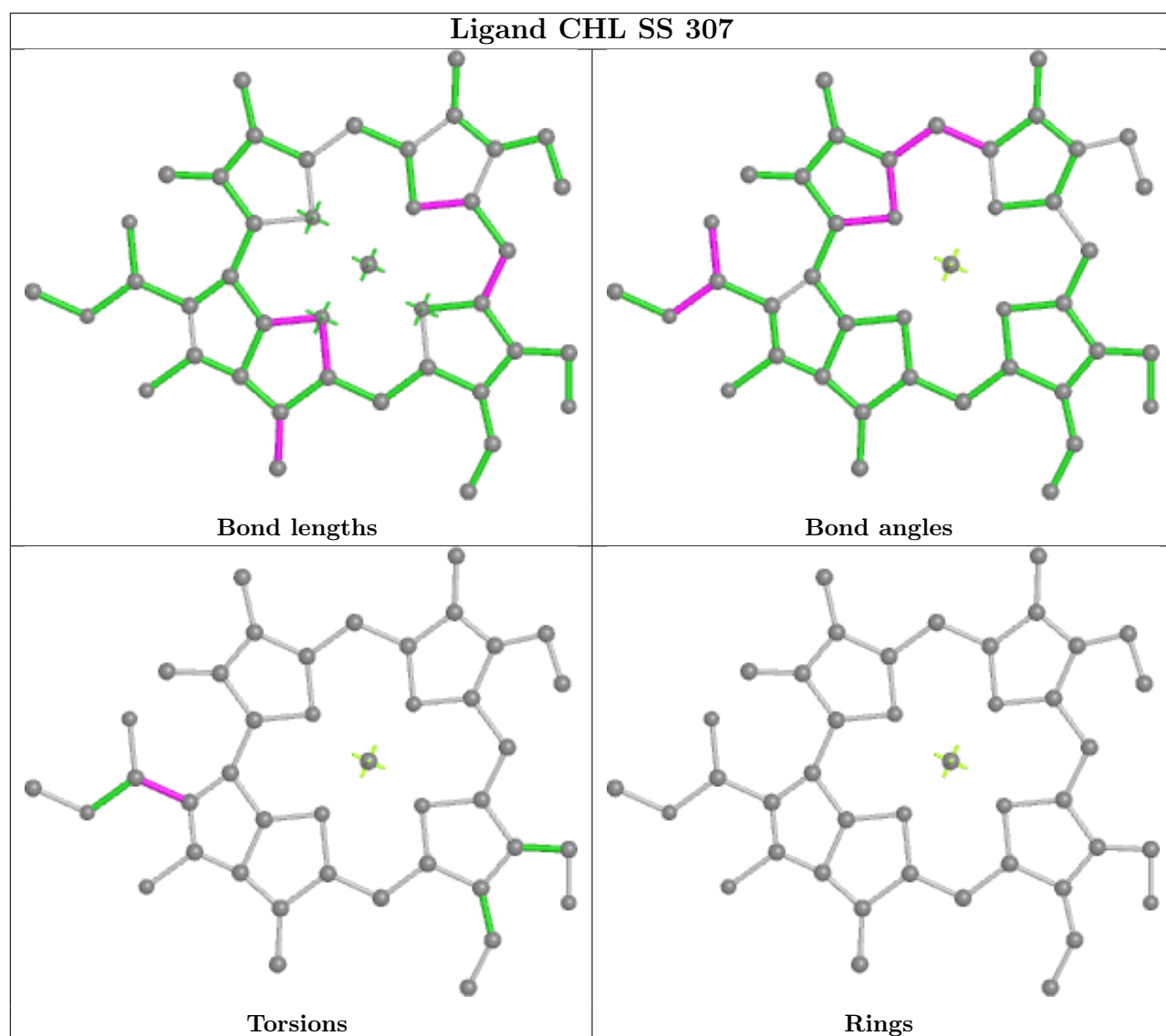
Torsions



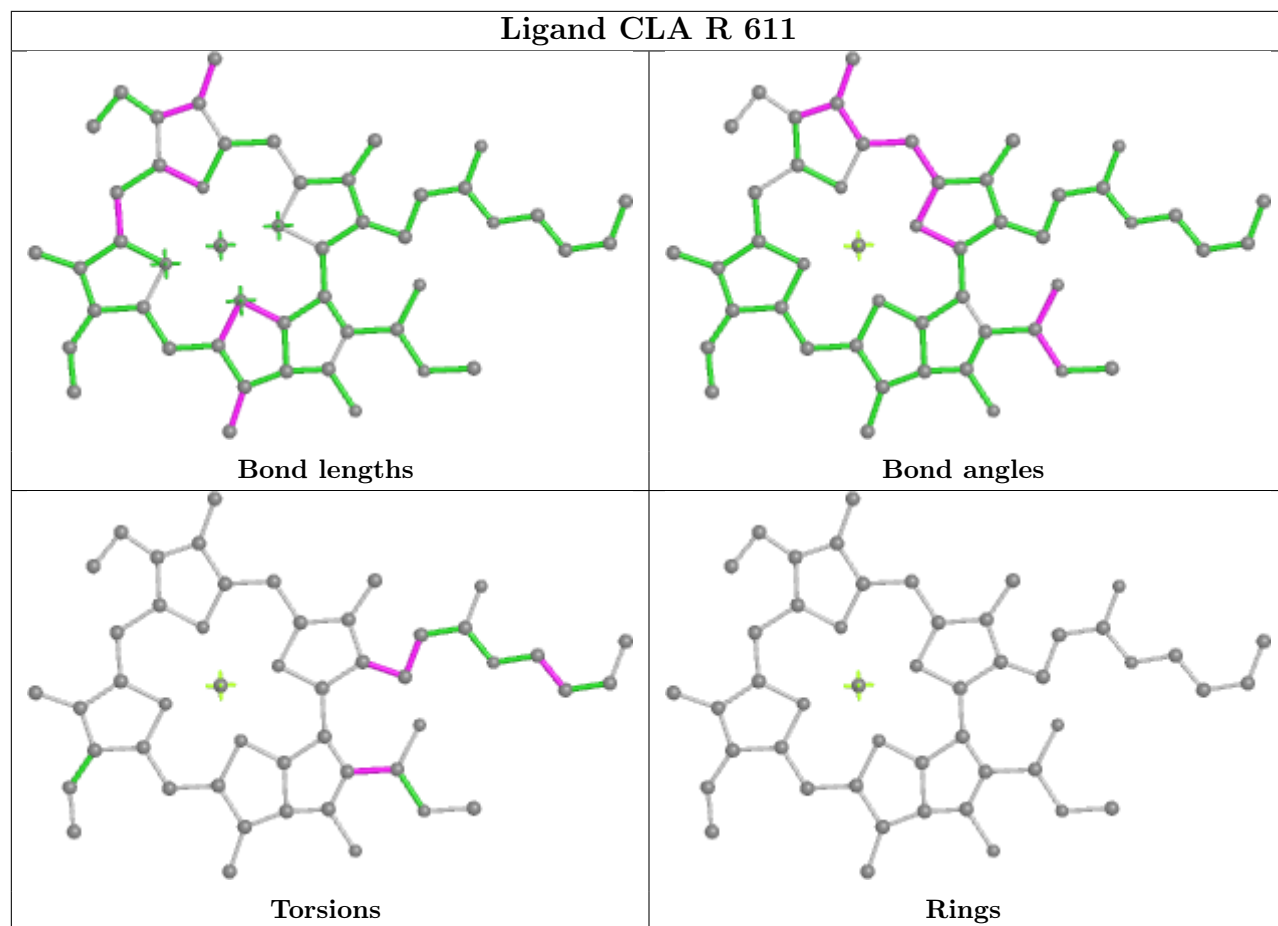
Rings



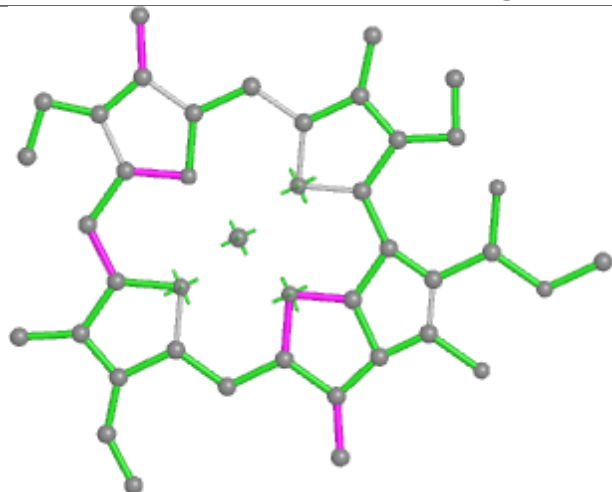




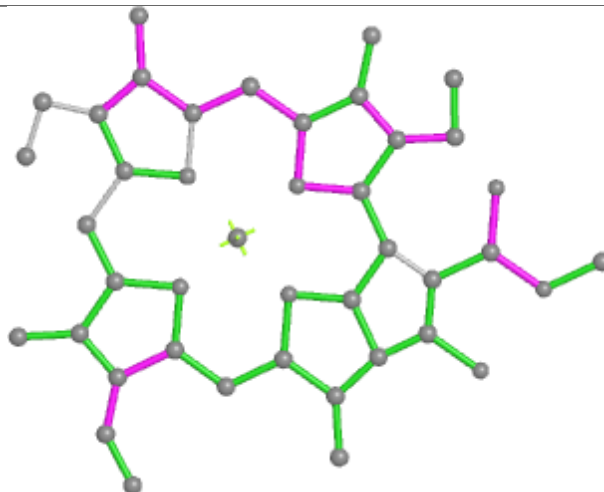
Ligand CLA R 611



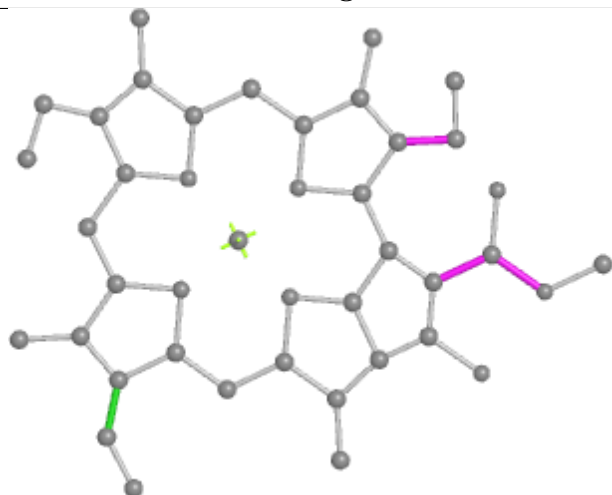
Ligand CLA NN 612



Bond lengths



Bond angles

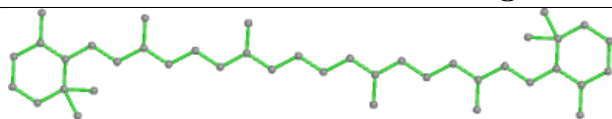


Torsions

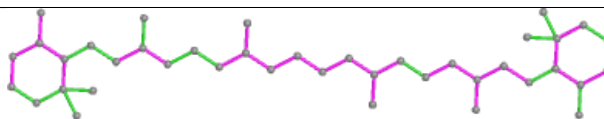


Rings

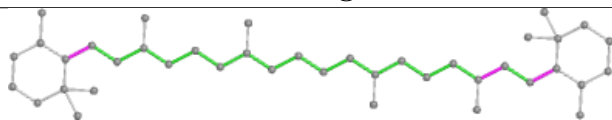
Ligand BCR BB 620



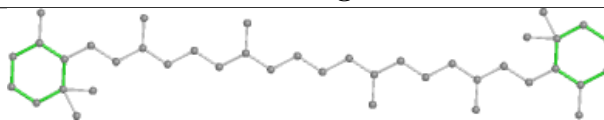
Bond lengths



Bond angles

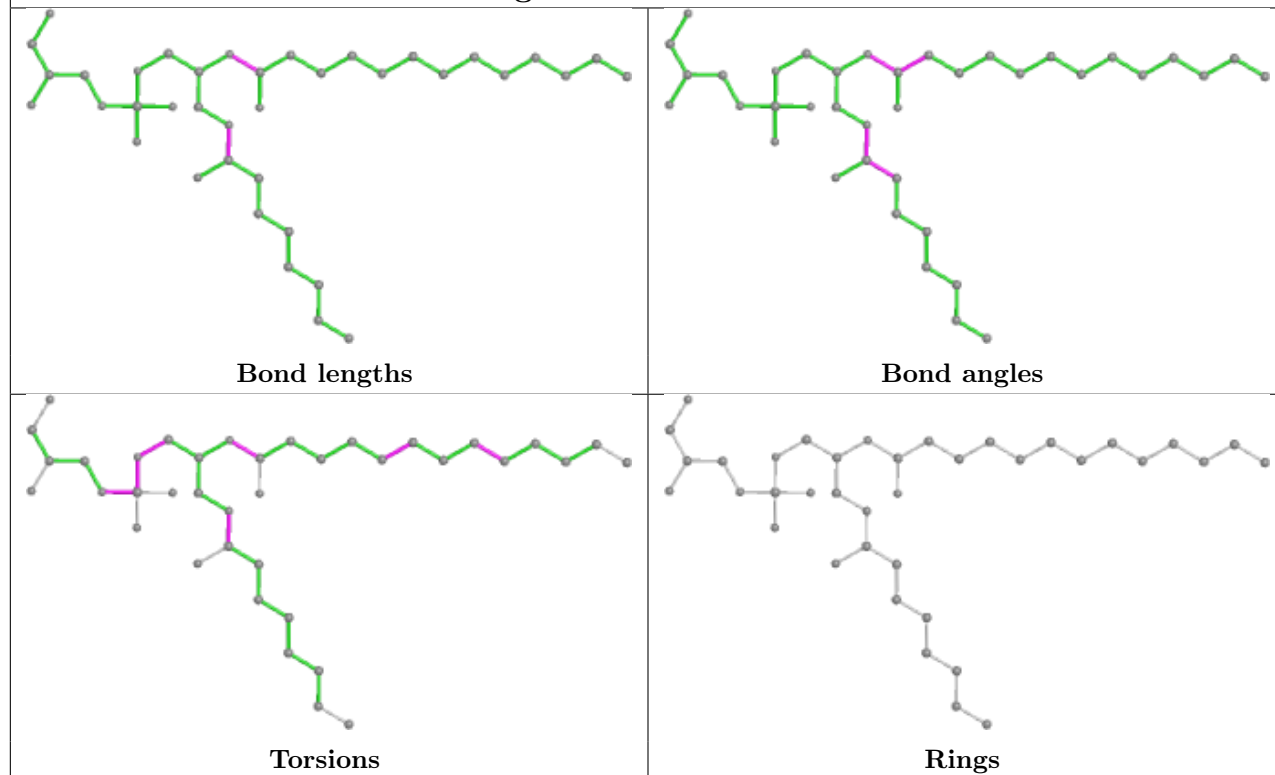


Torsions

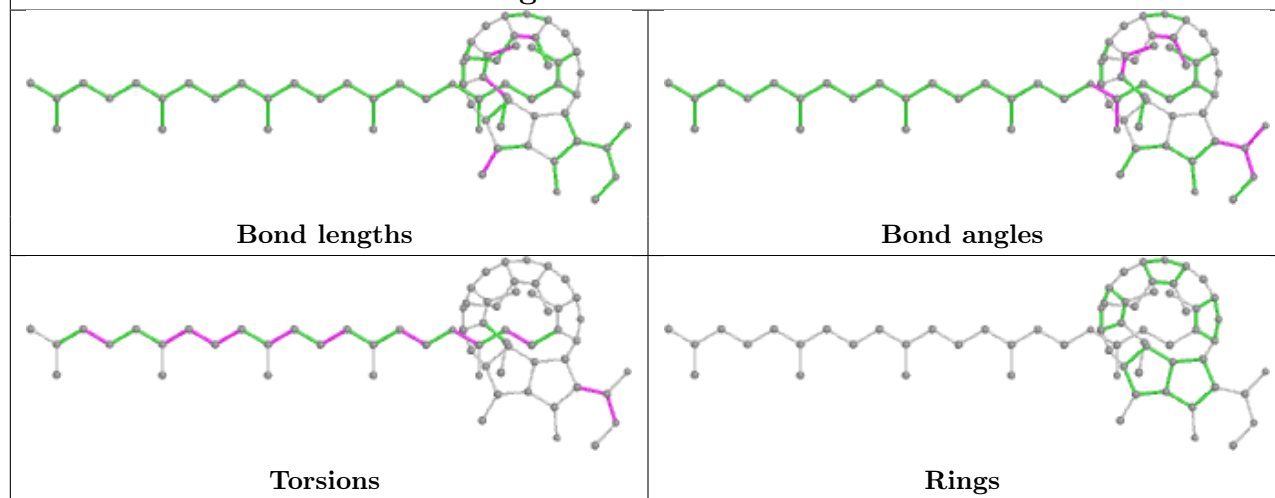


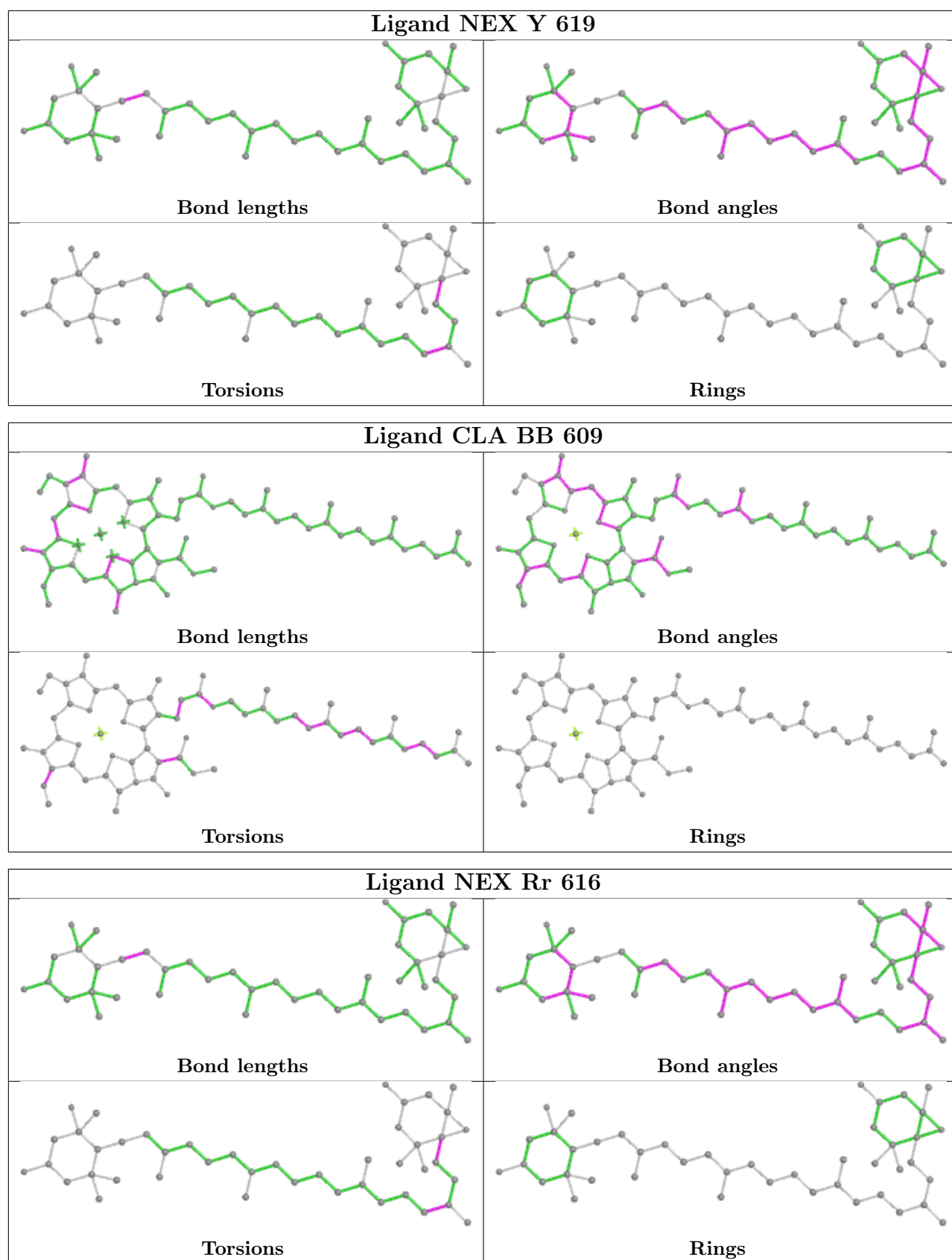
Rings

Ligand LHG NN 619

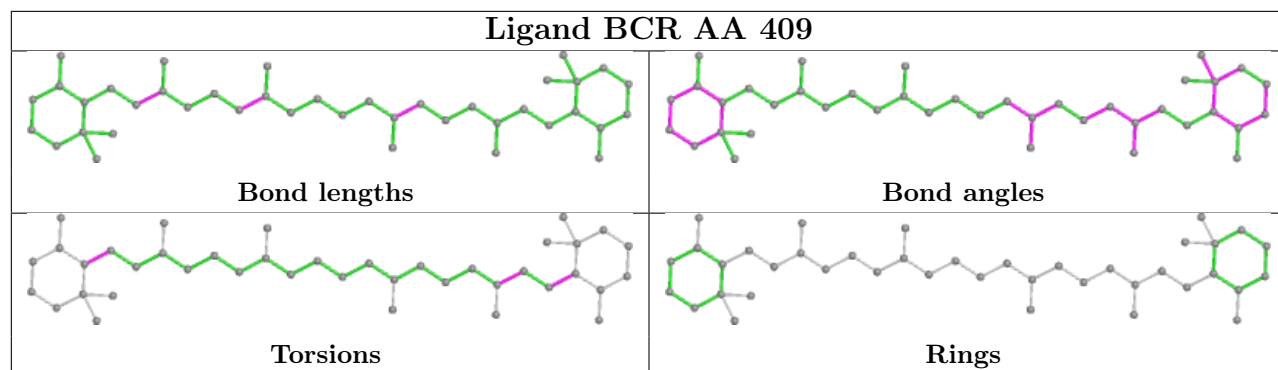


Ligand PHO Aa 409

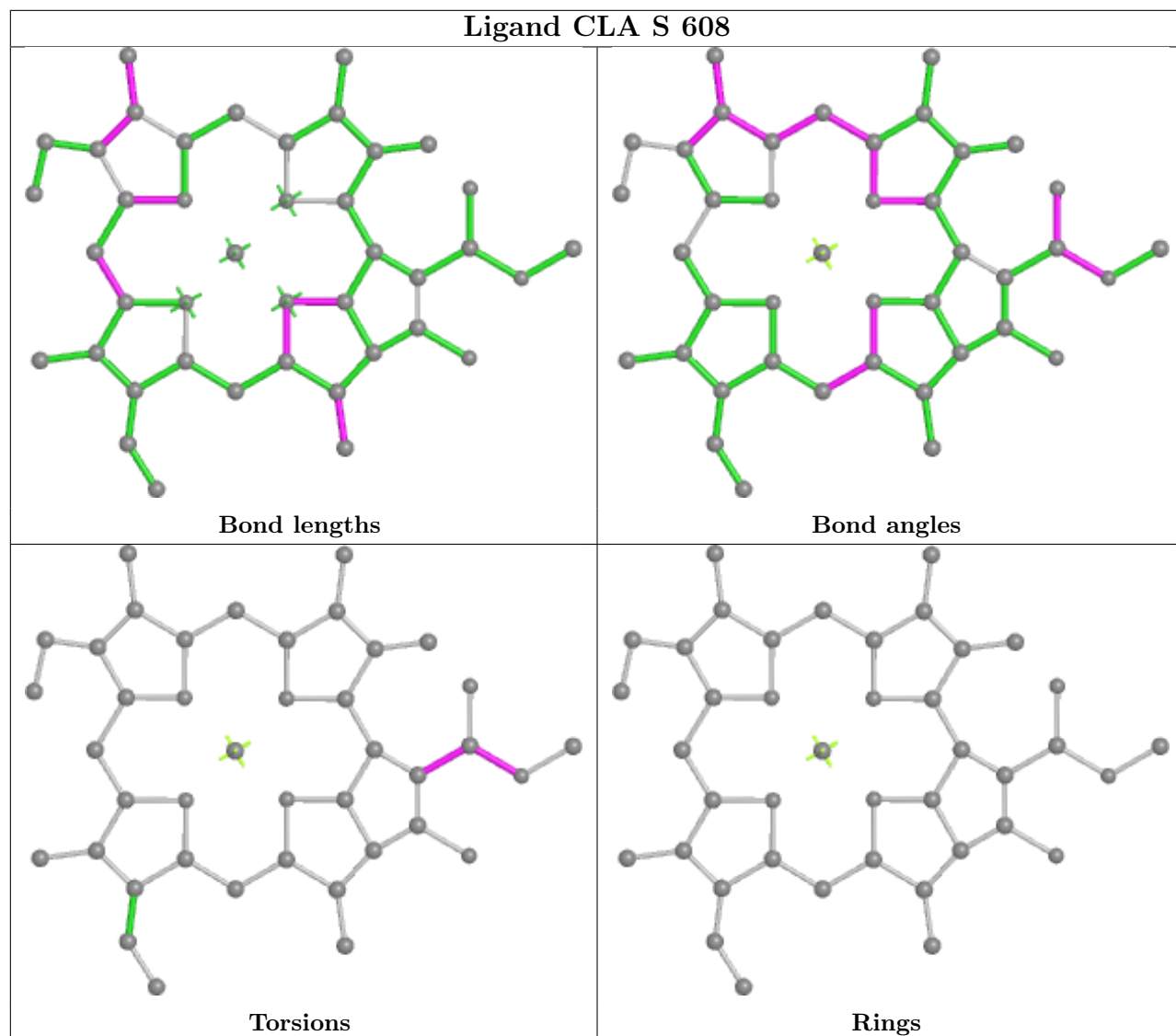


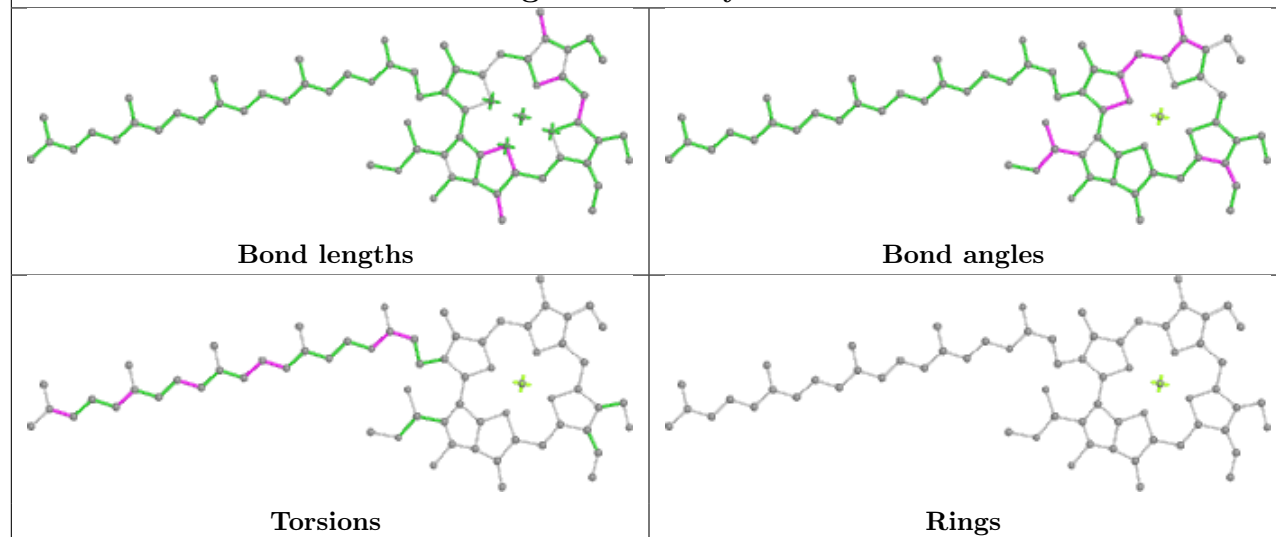
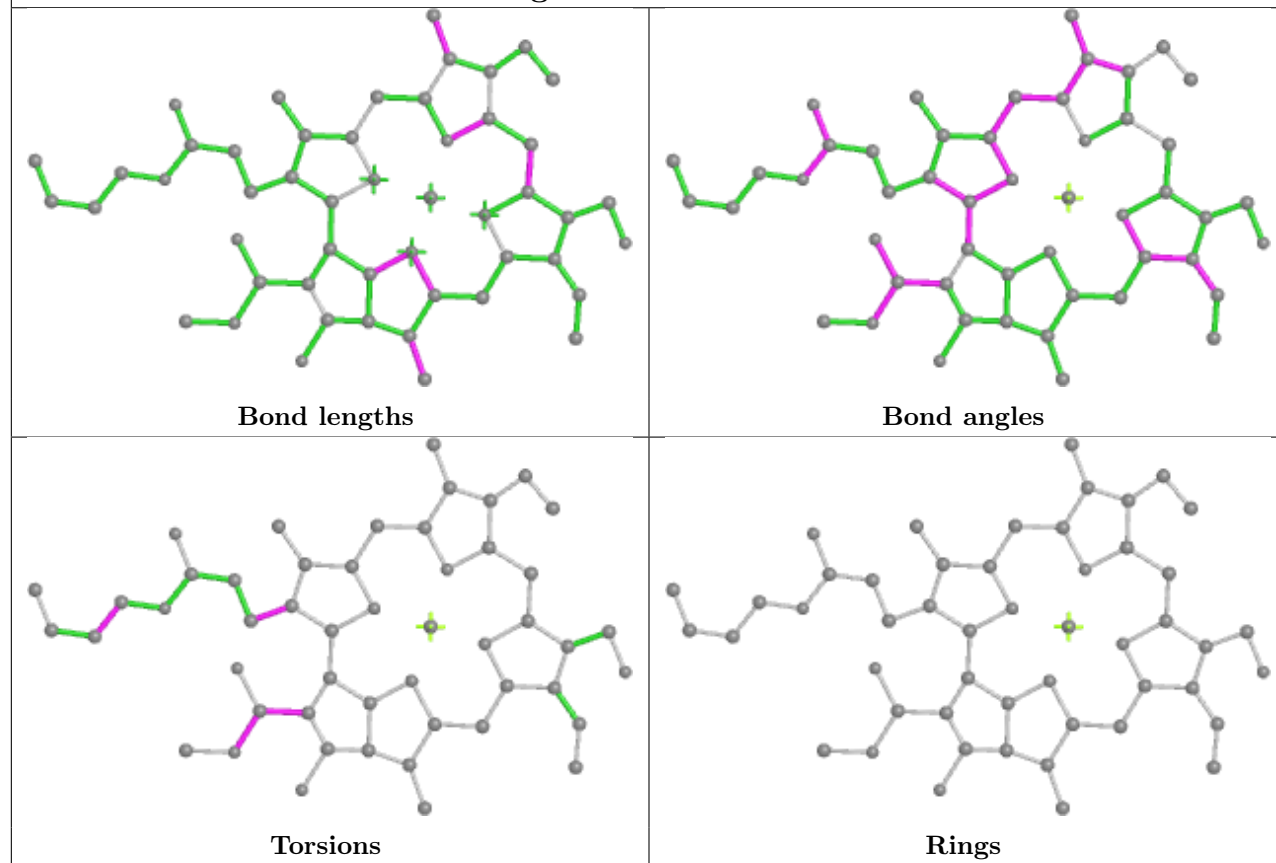


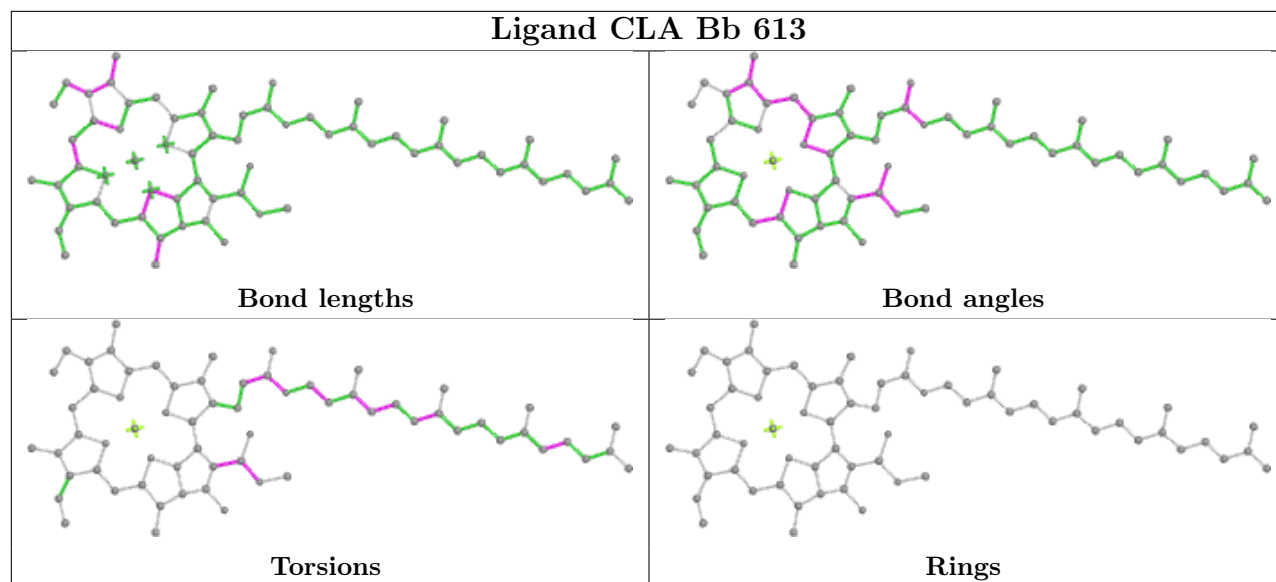
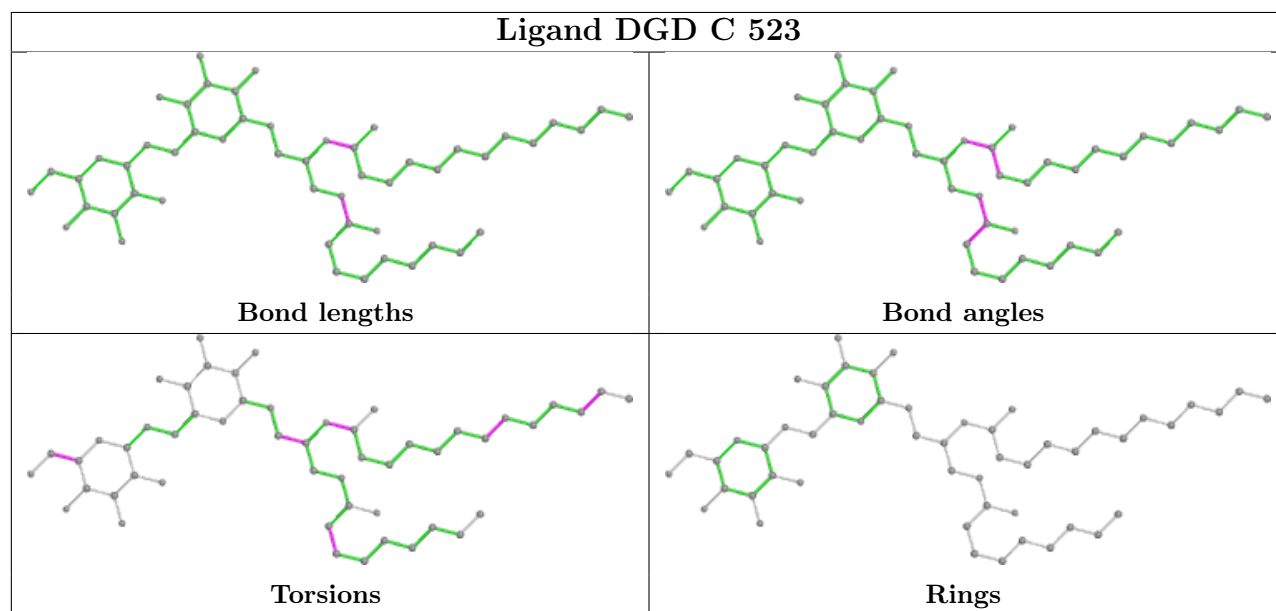
Ligand BCR AA 409



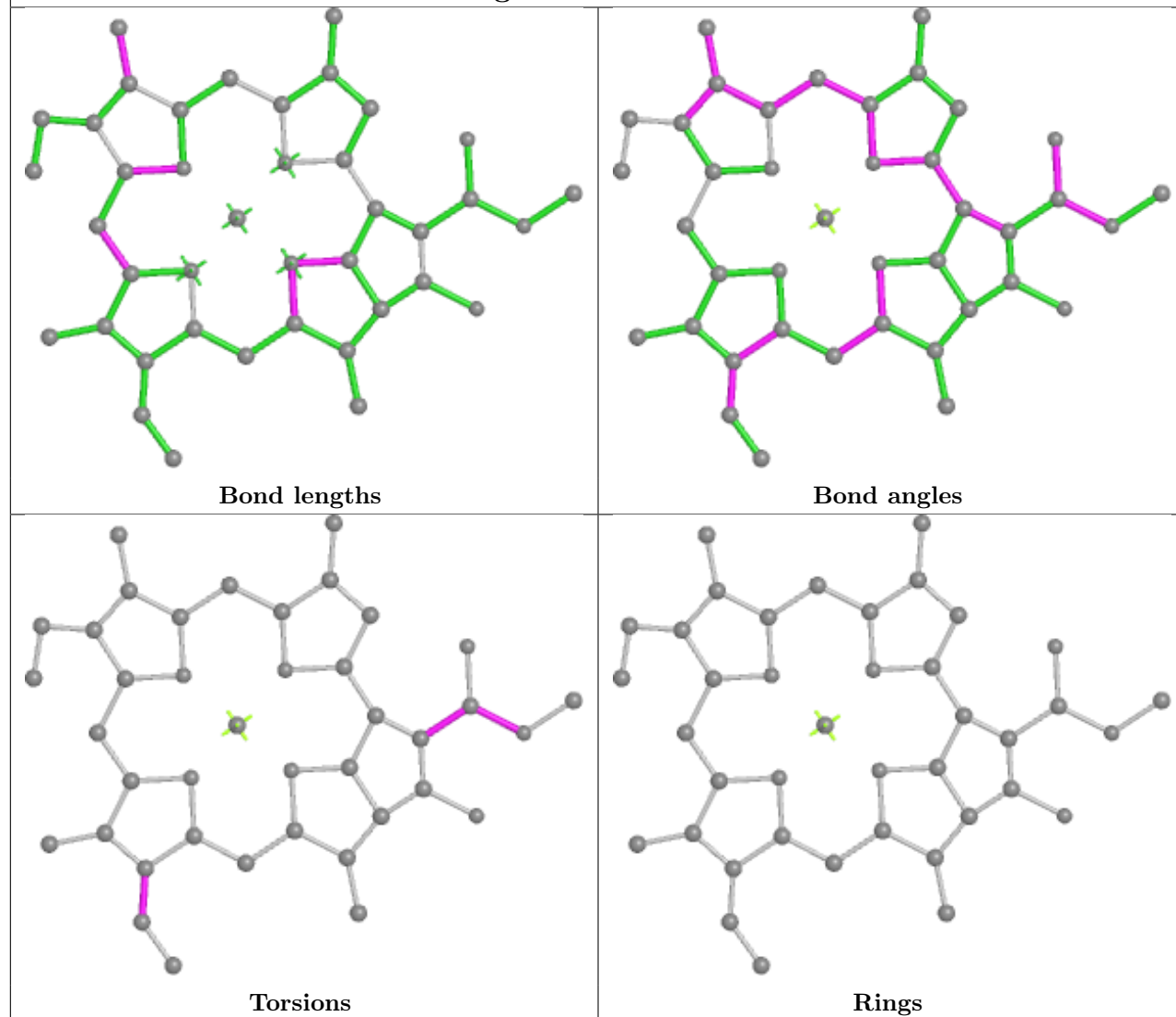
Ligand CLA S 608



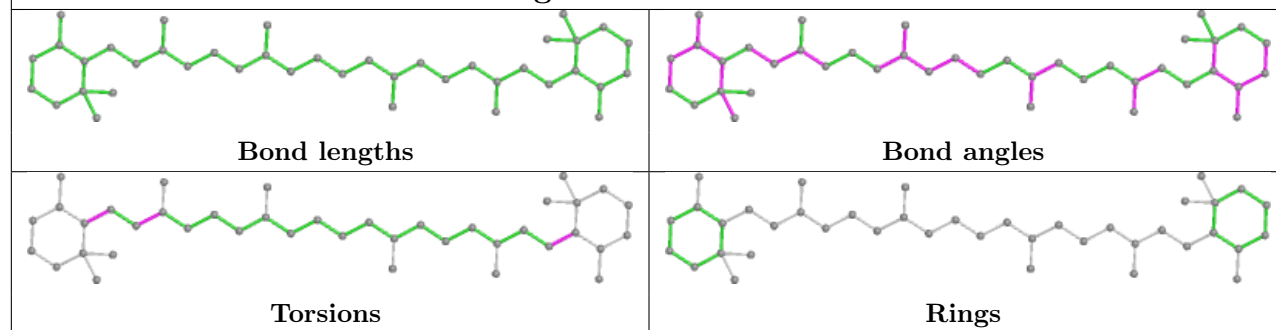
Ligand CHL Yy 609**Ligand CHL N 609**

Ligand CLA Bb 613**Ligand DGD C 523**

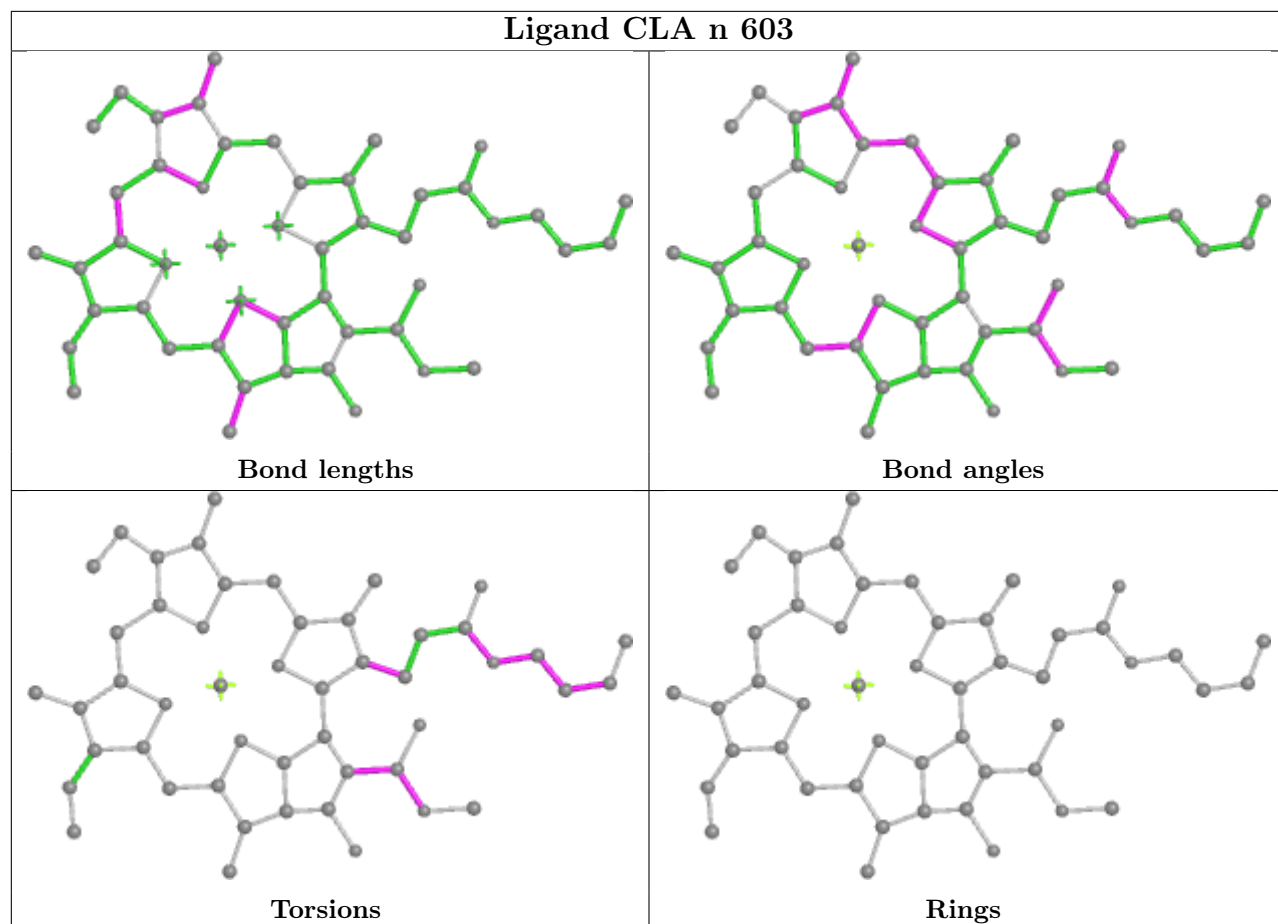
Ligand CLA 3 610

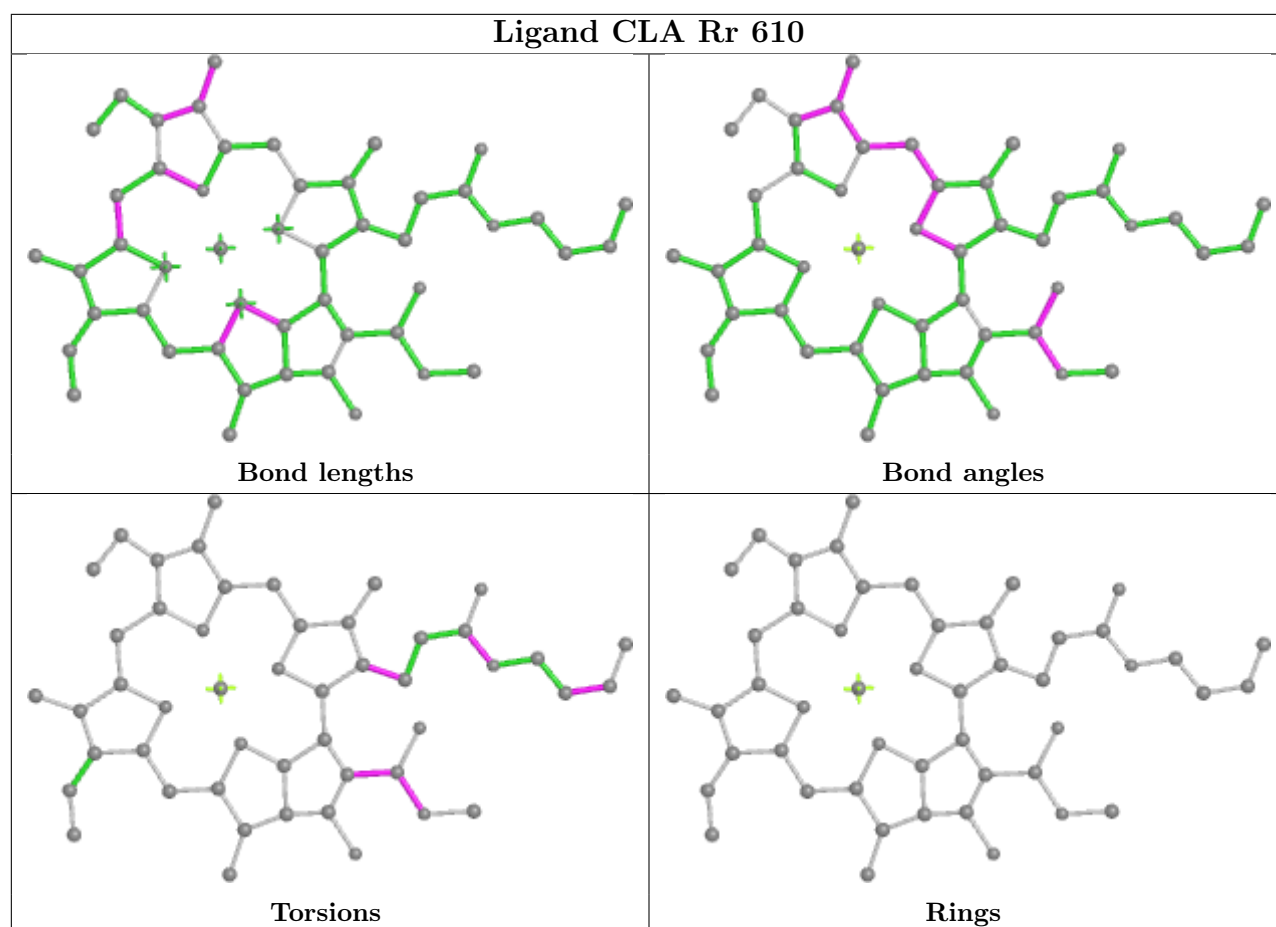


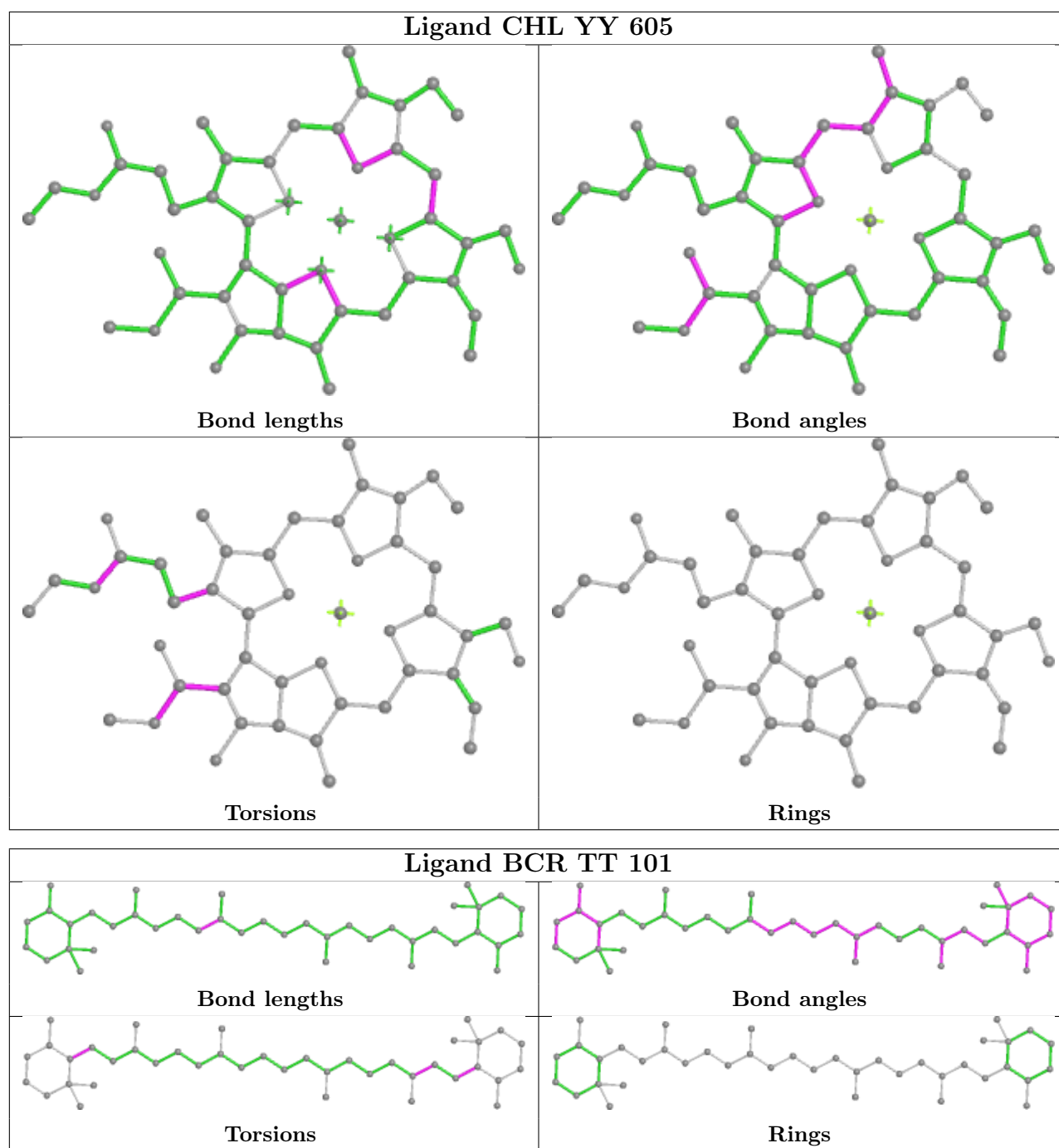
Ligand BCR k 101

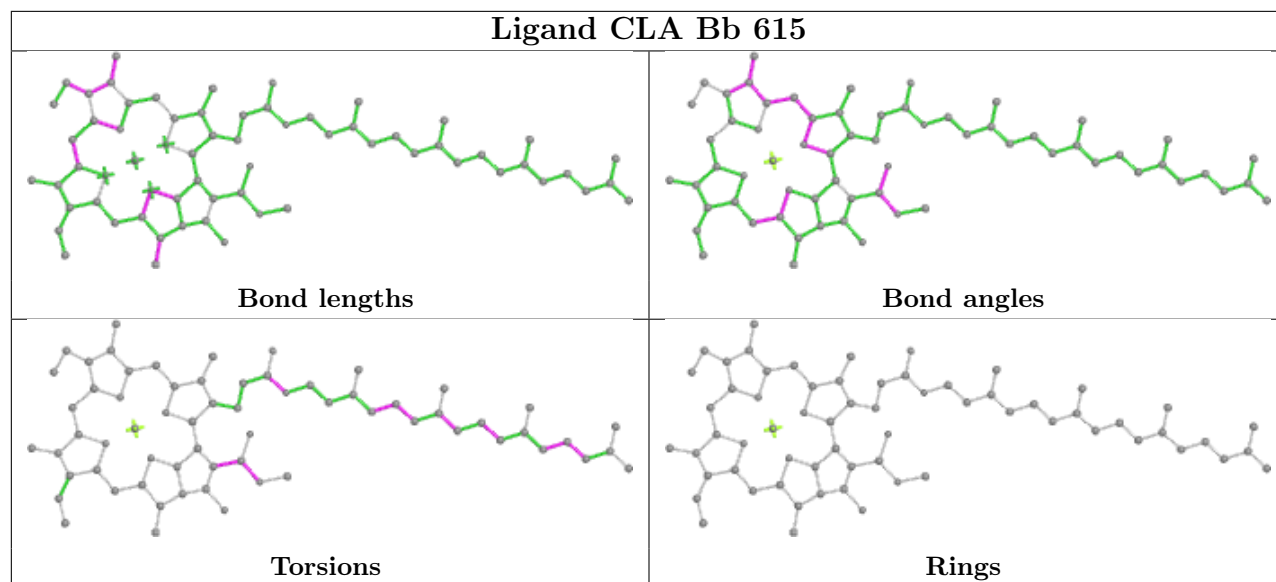
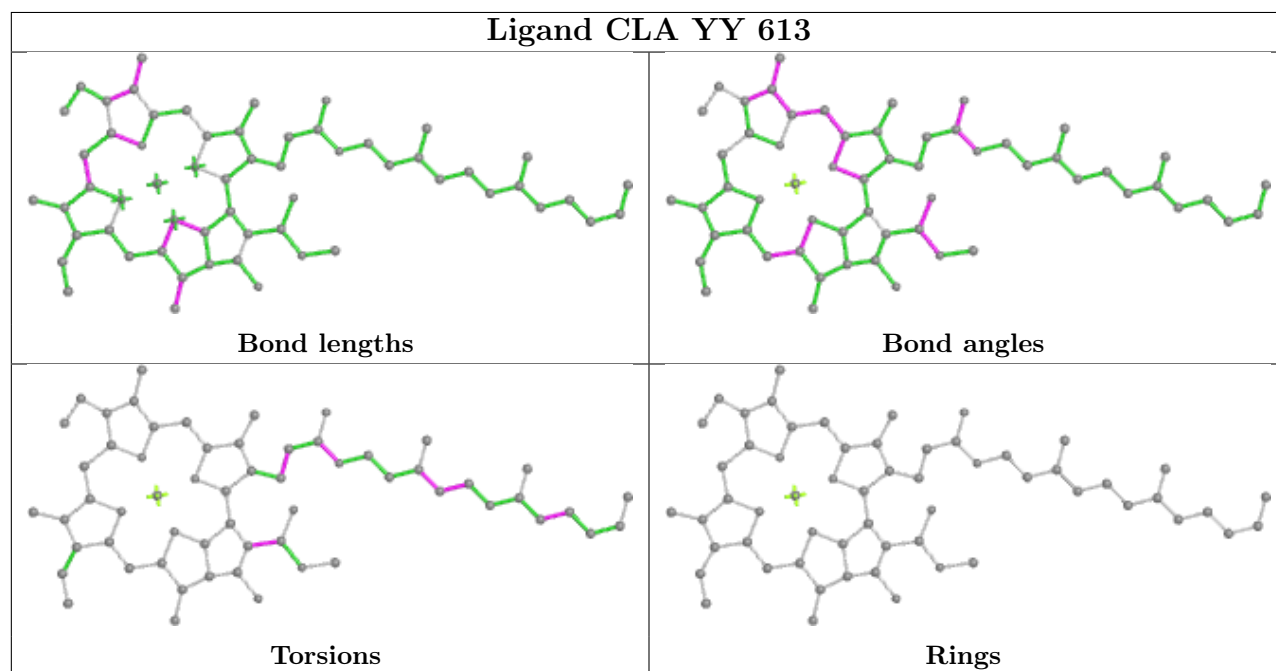
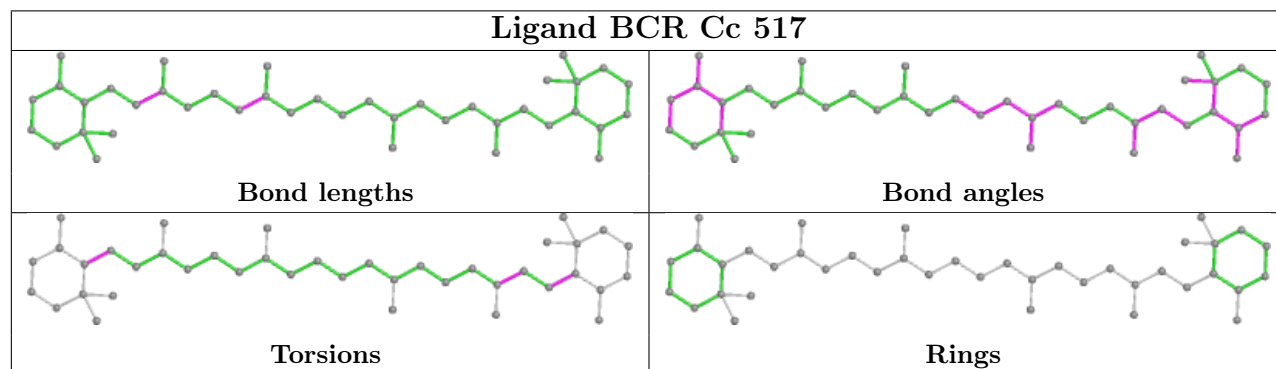


Ligand CLA n 603

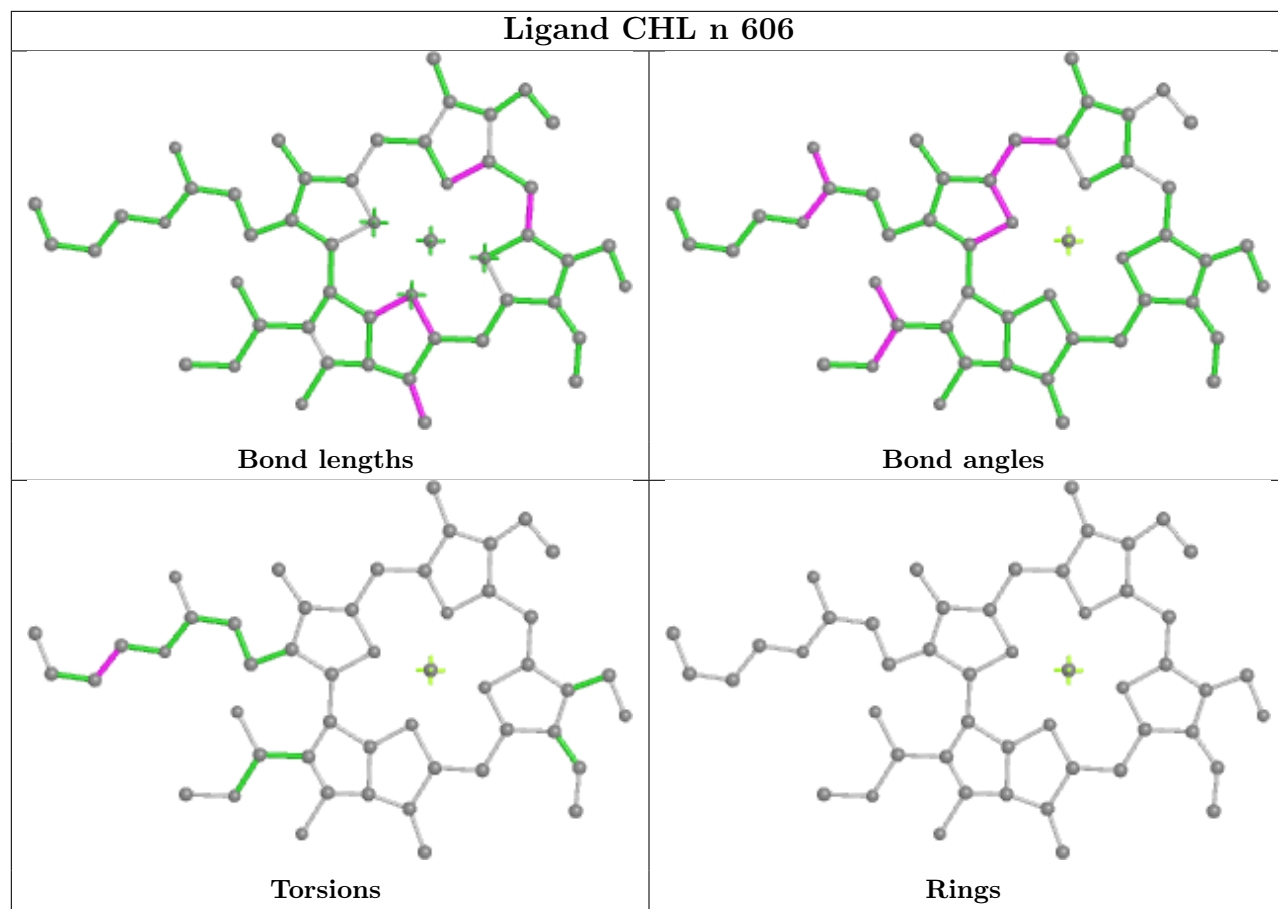




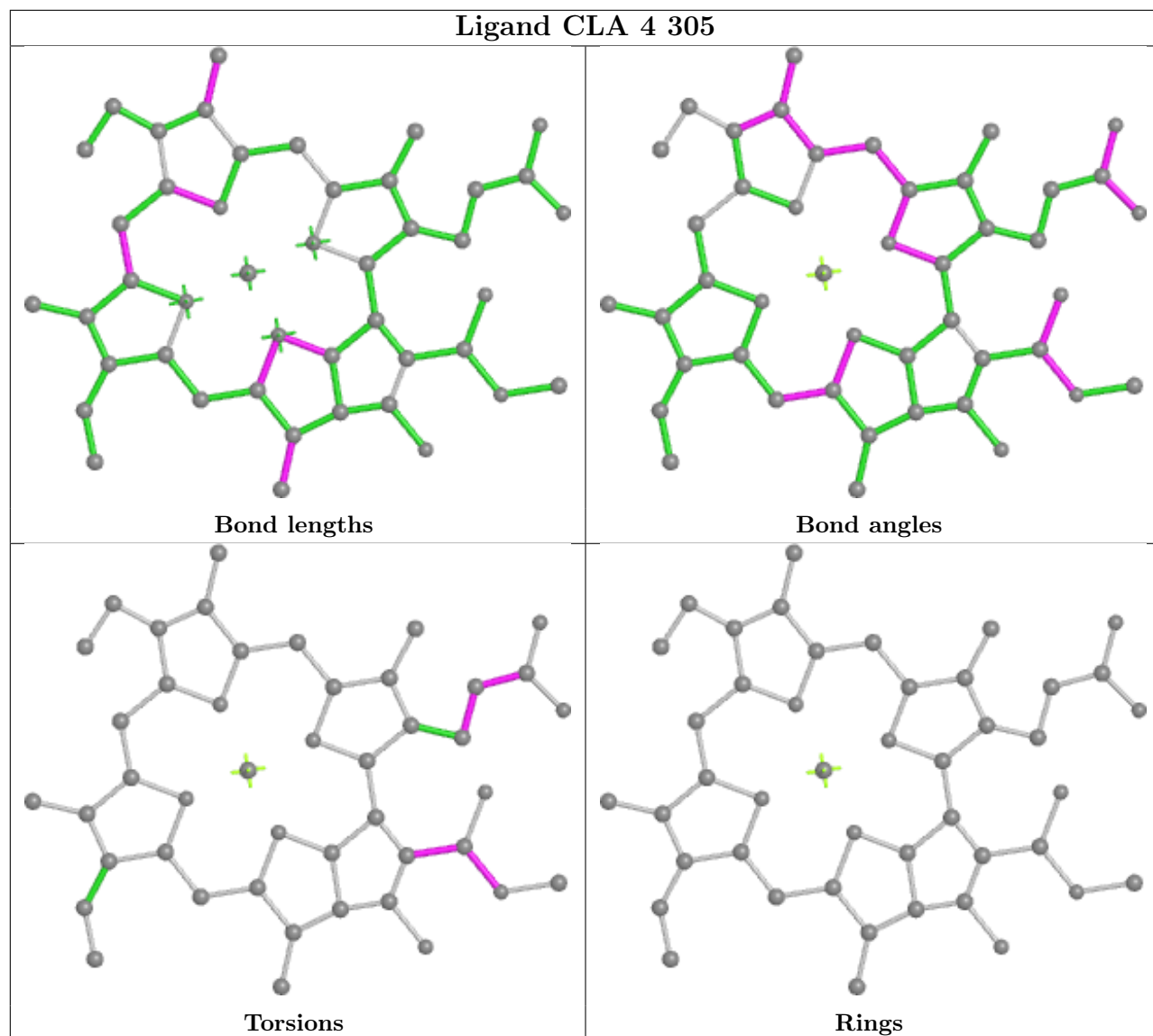


Ligand CLA Bb 615**Ligand CLA YY 613****Ligand BCR Cc 517**

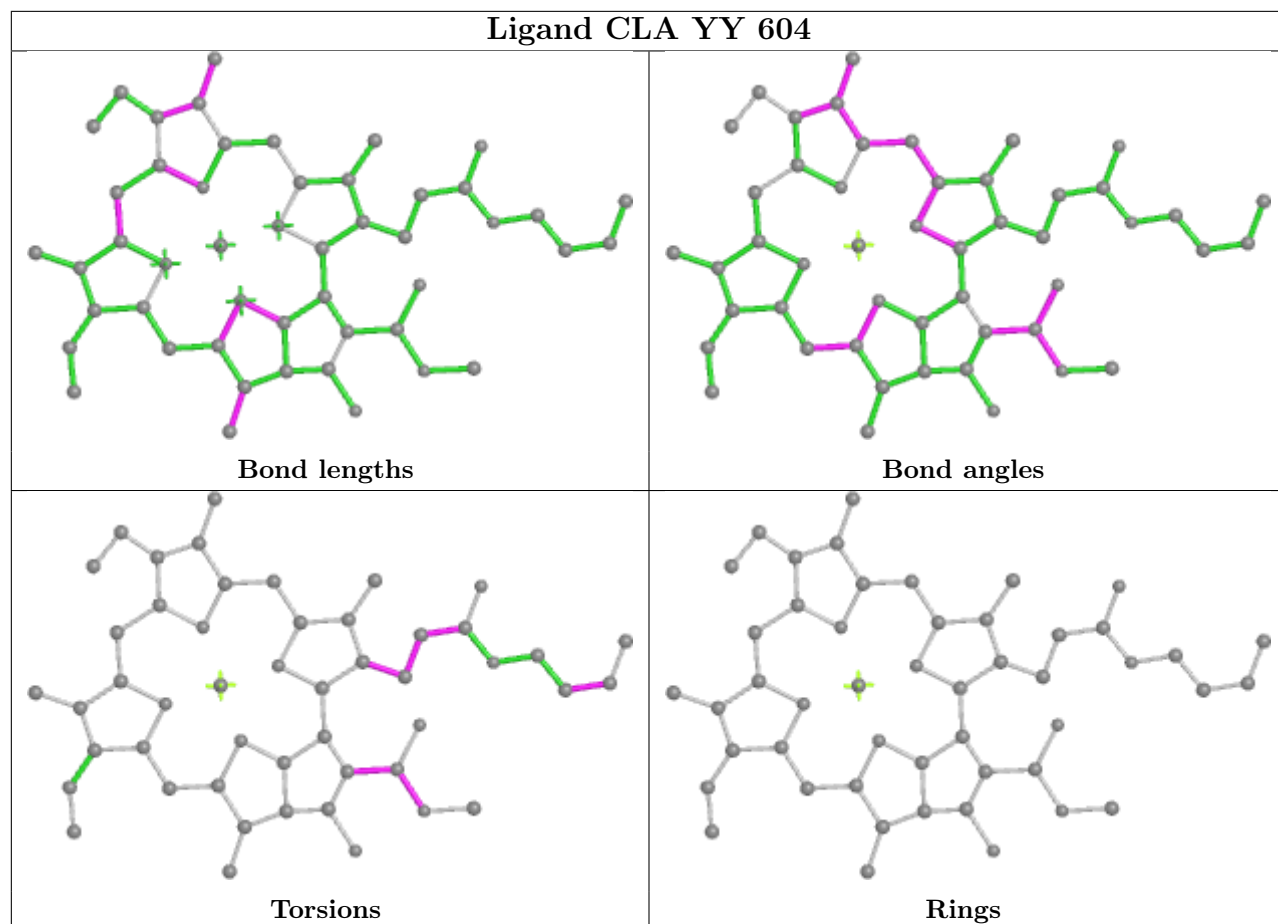
Ligand CHL n 606

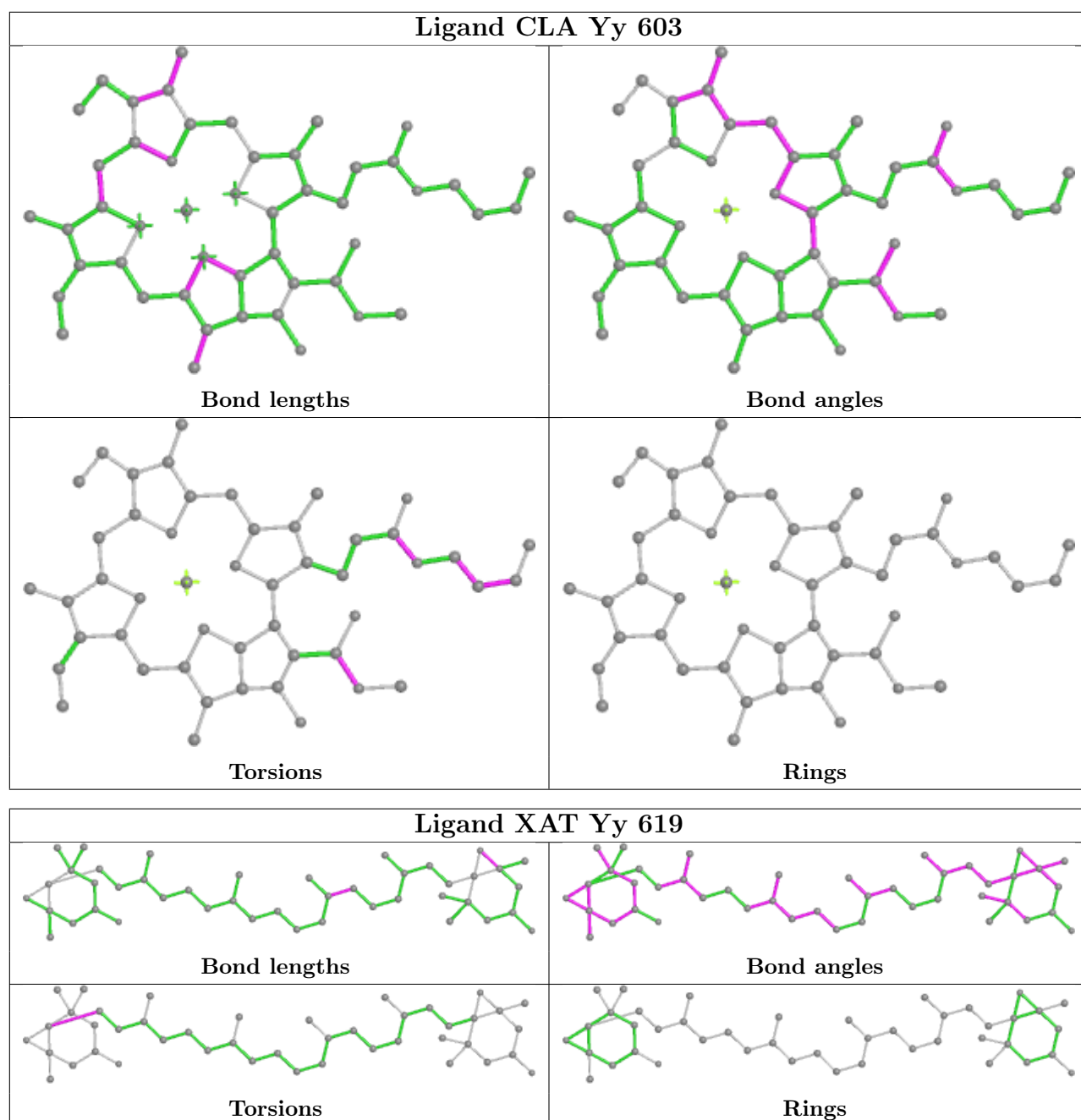


Ligand CLA 4 305

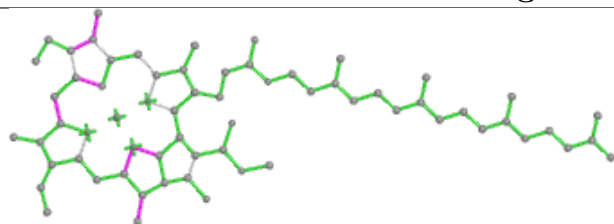


Ligand CLA YY 604

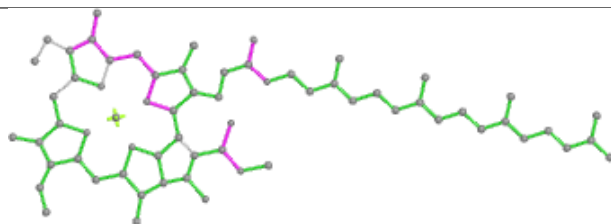




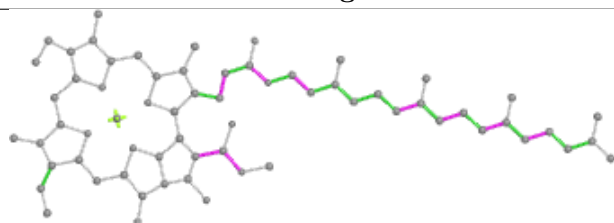
Ligand CLA b 612



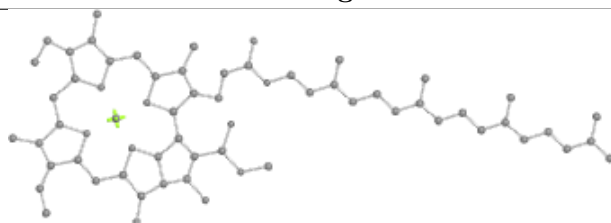
Bond lengths



Bond angles

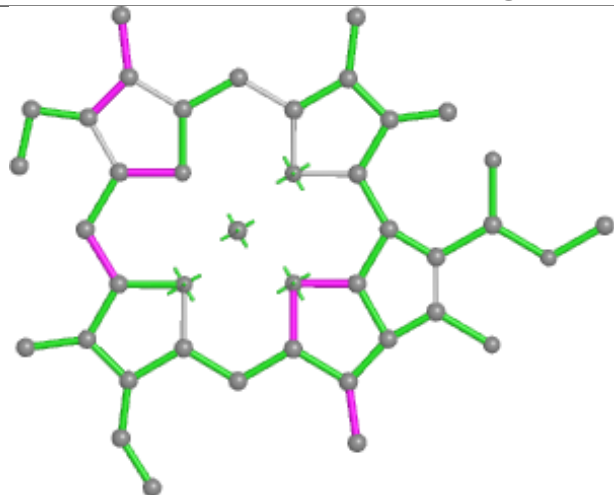


Torsions

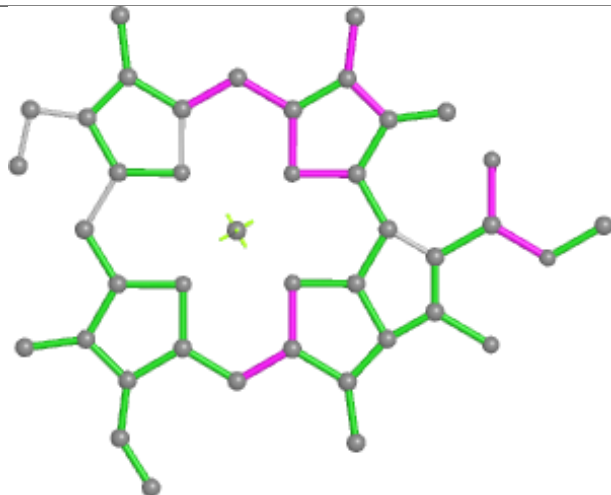


Rings

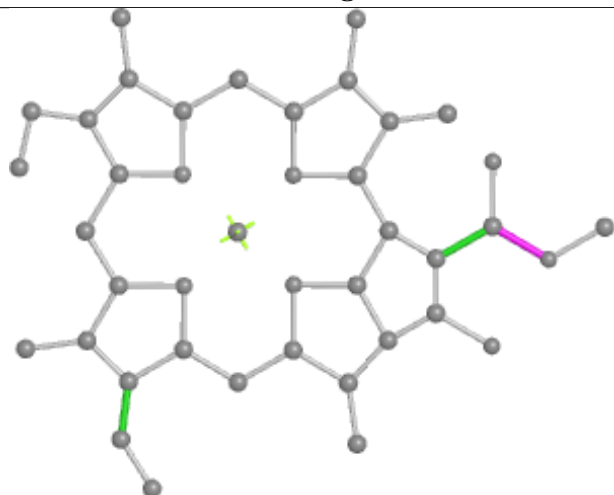
Ligand CLA XX 201



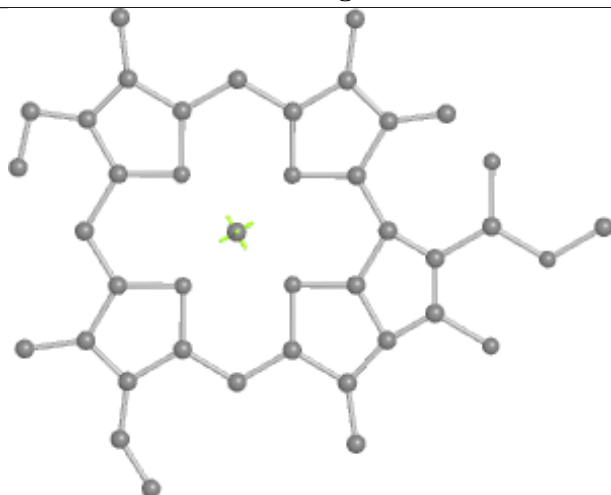
Bond lengths



Bond angles

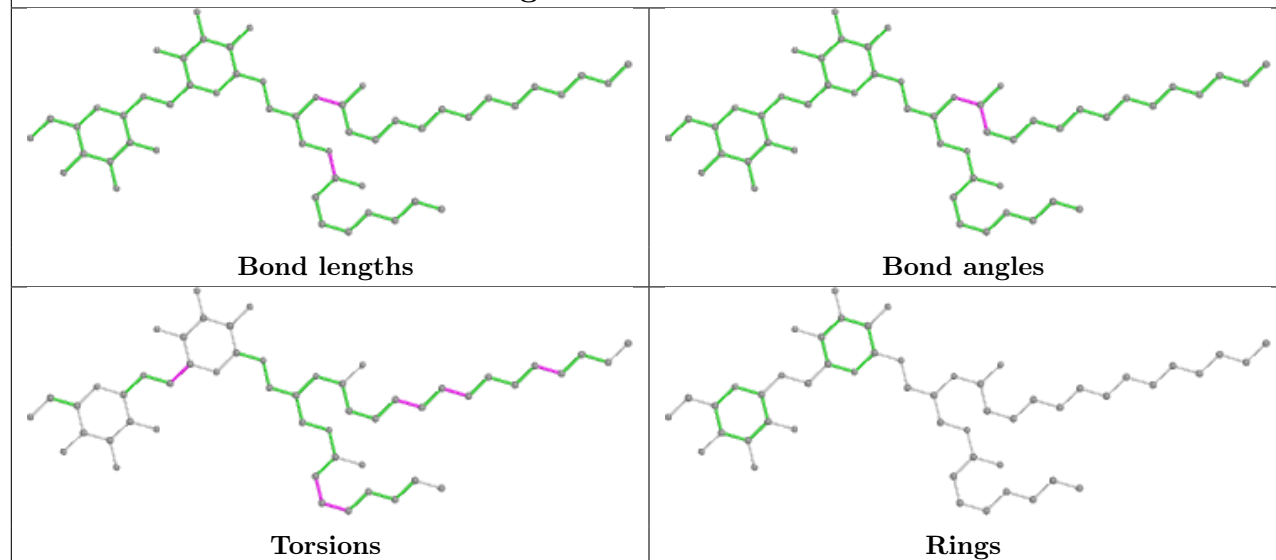


Torsions

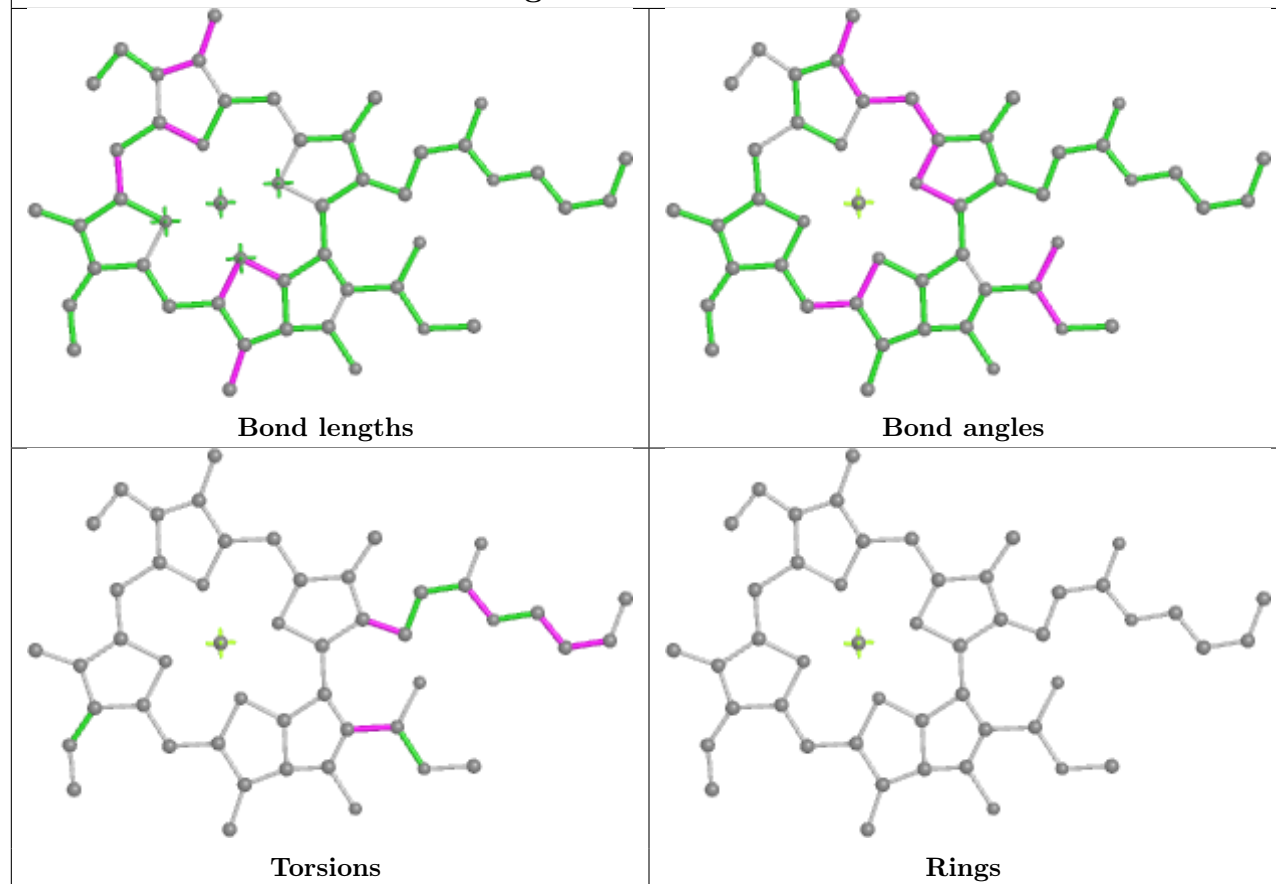


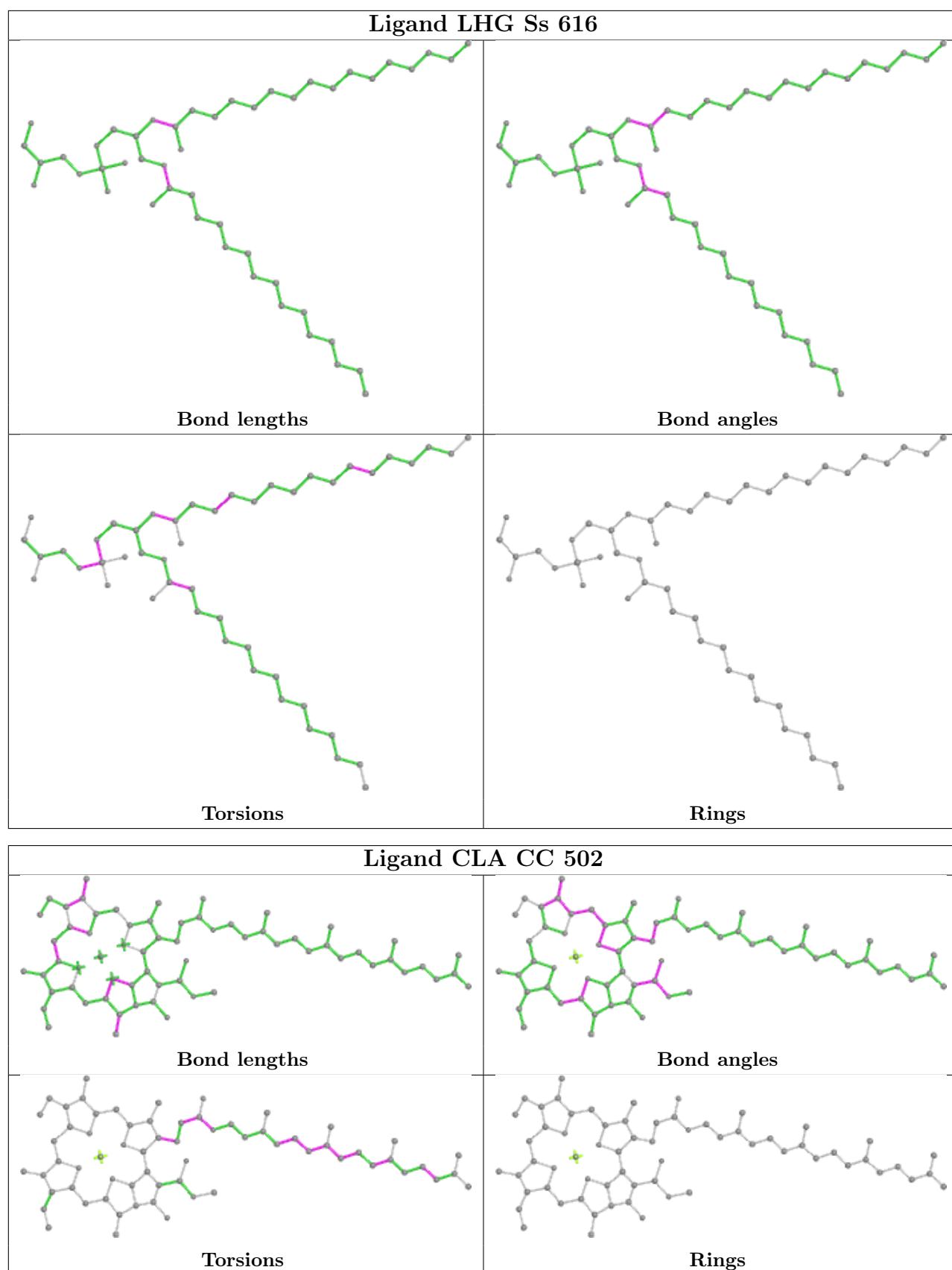
Rings

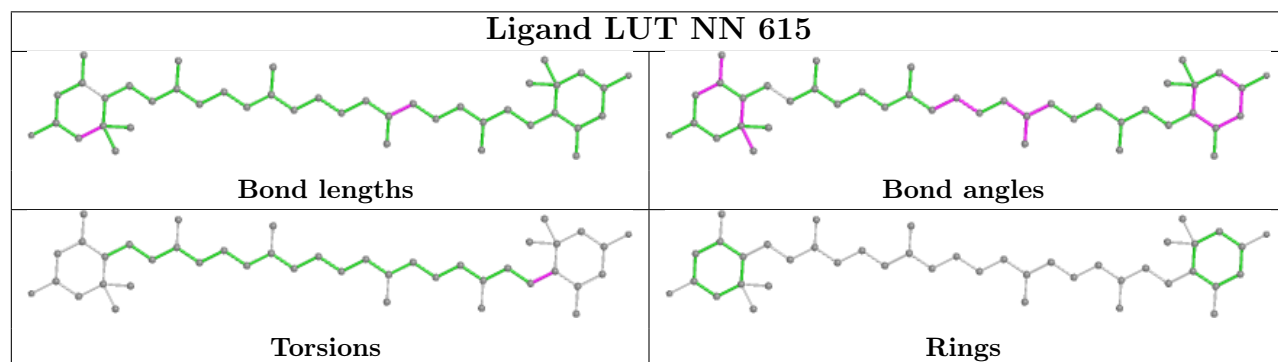
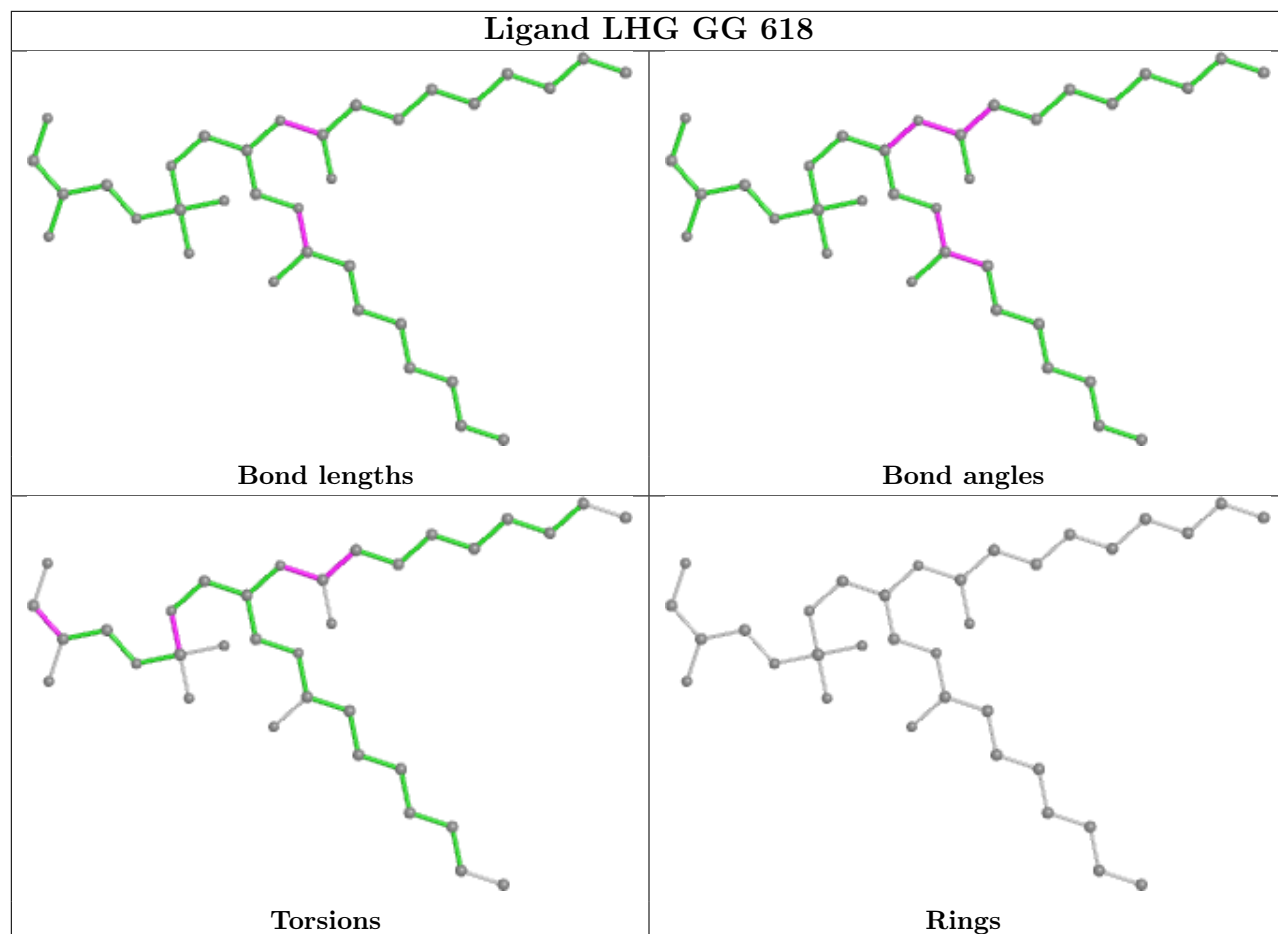
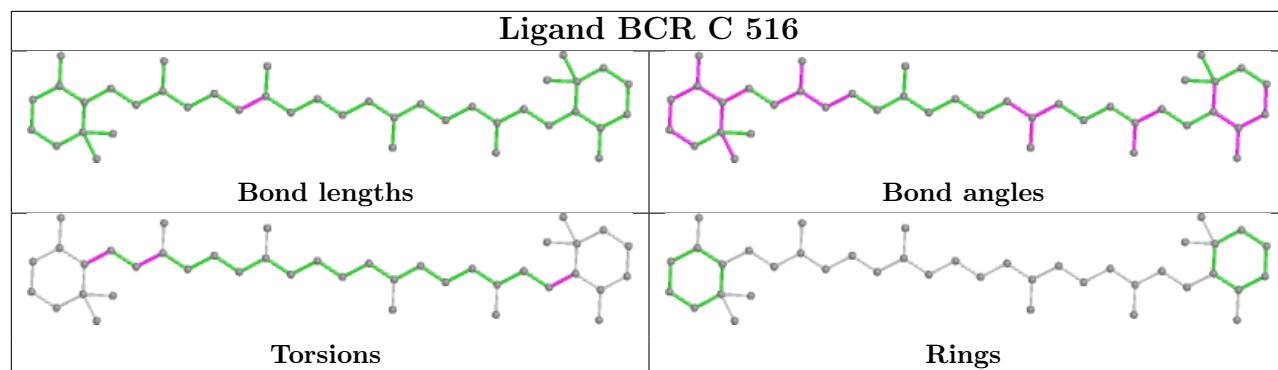
Ligand DGD Cc 520

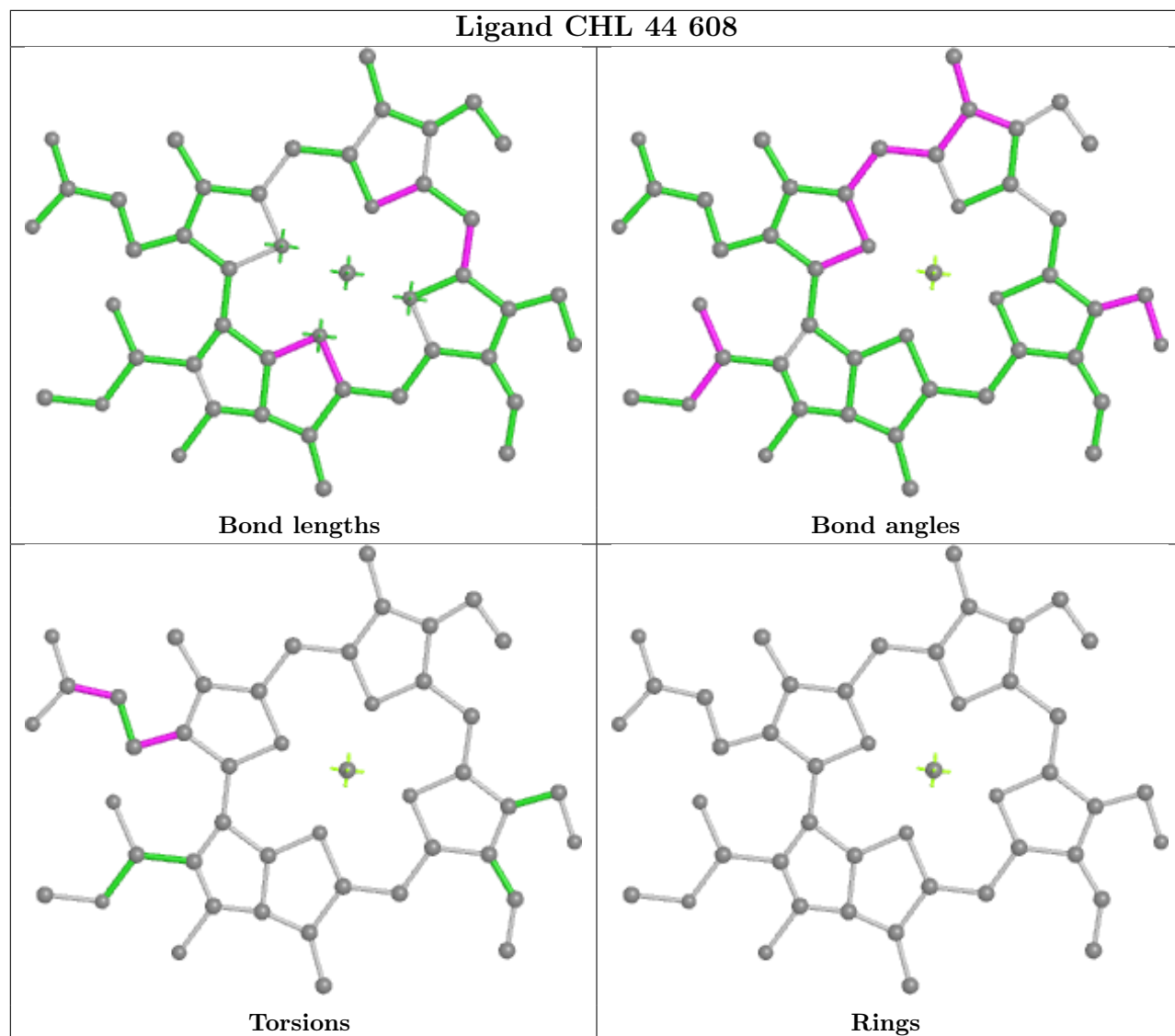


Ligand CLA Rr 612

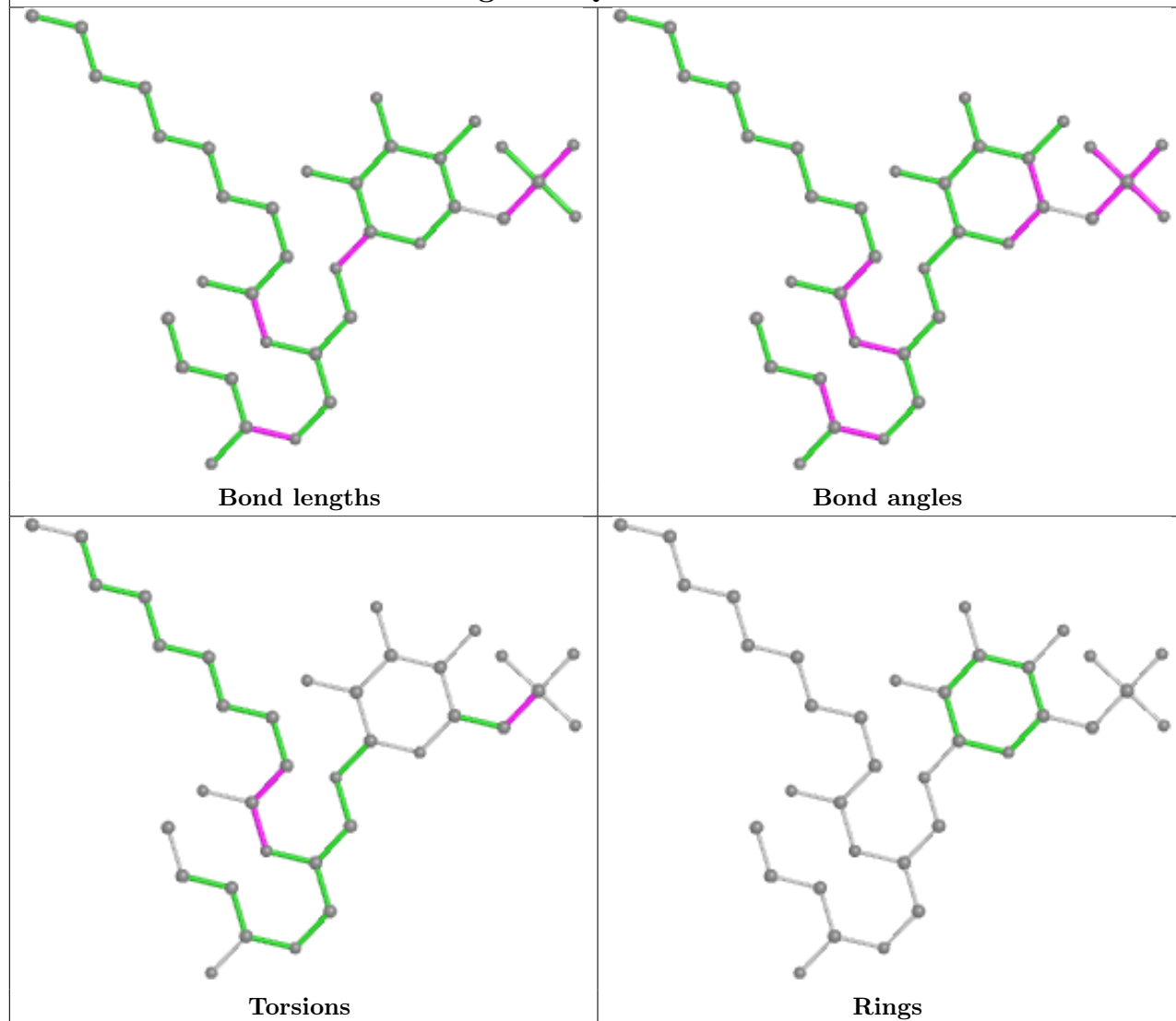




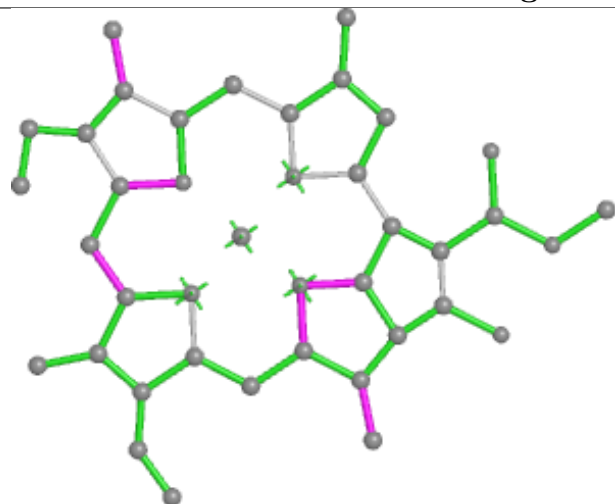




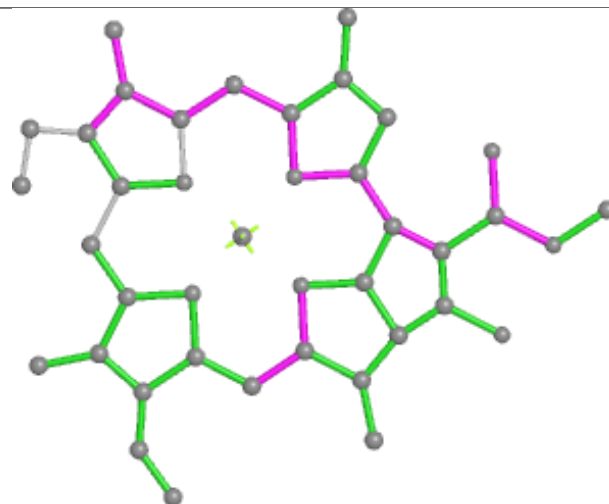
Ligand SQD BB 621



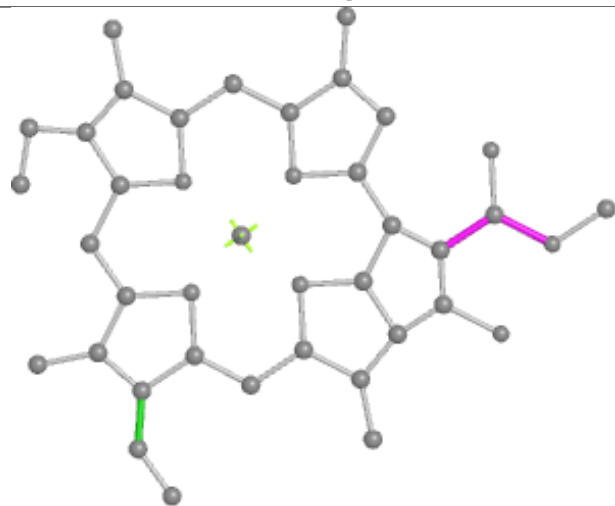
Ligand CLA 2 603



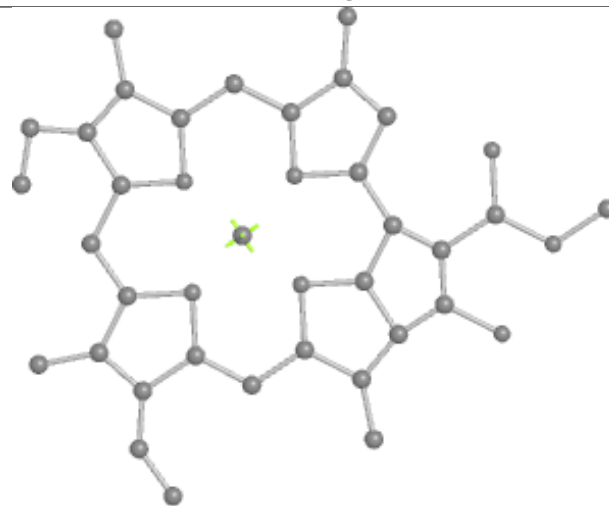
Bond lengths



Bond angles

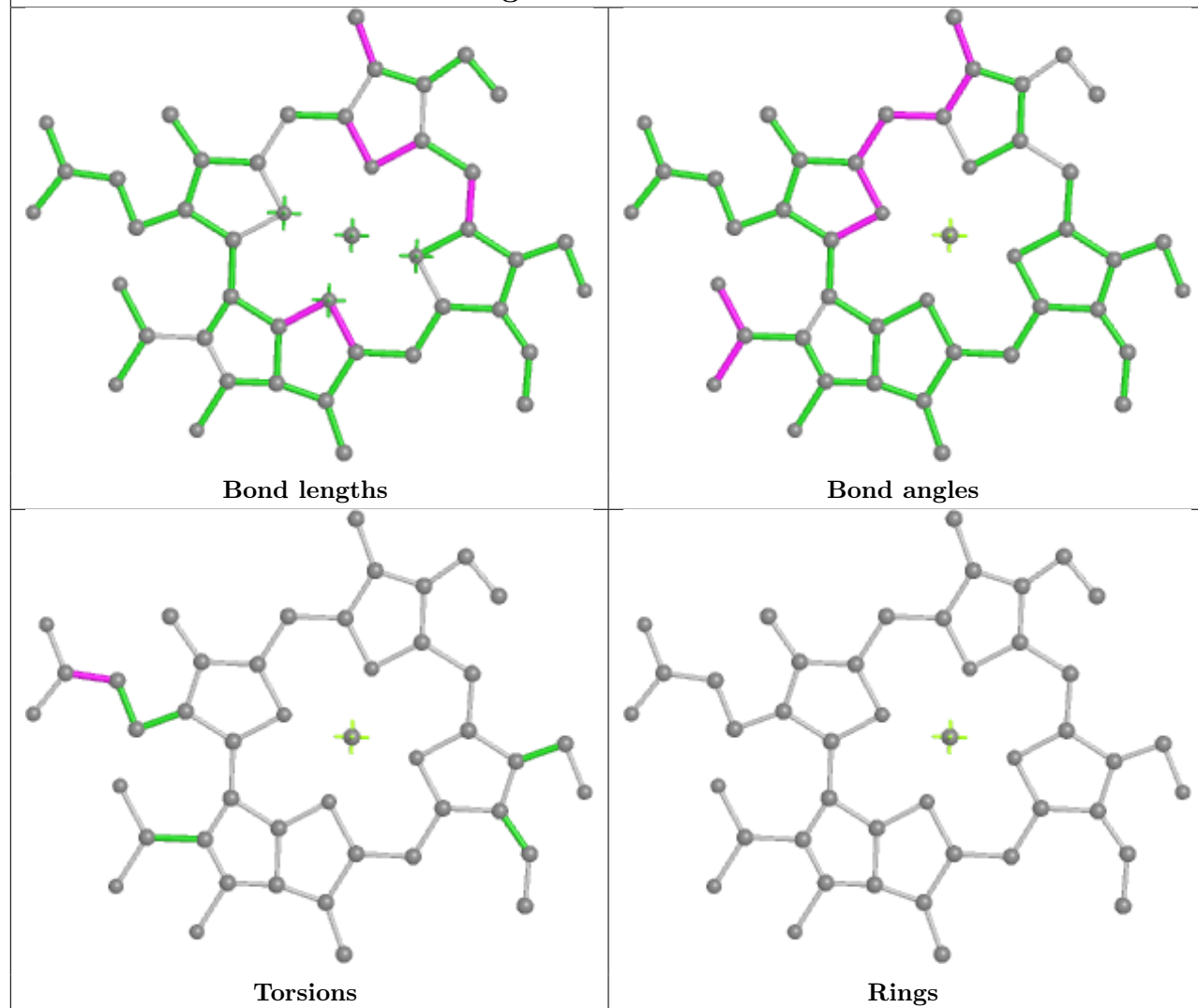


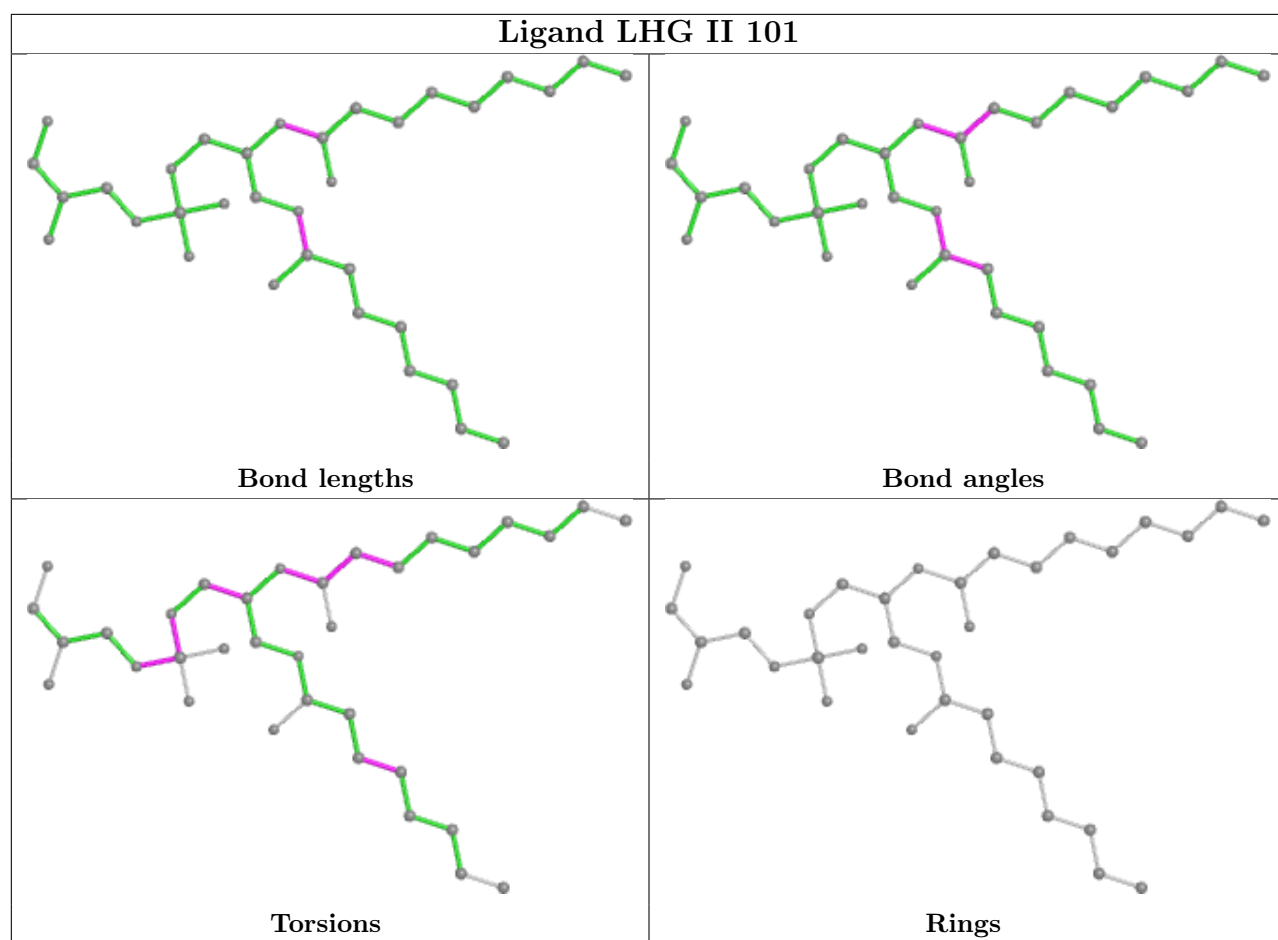
Torsions

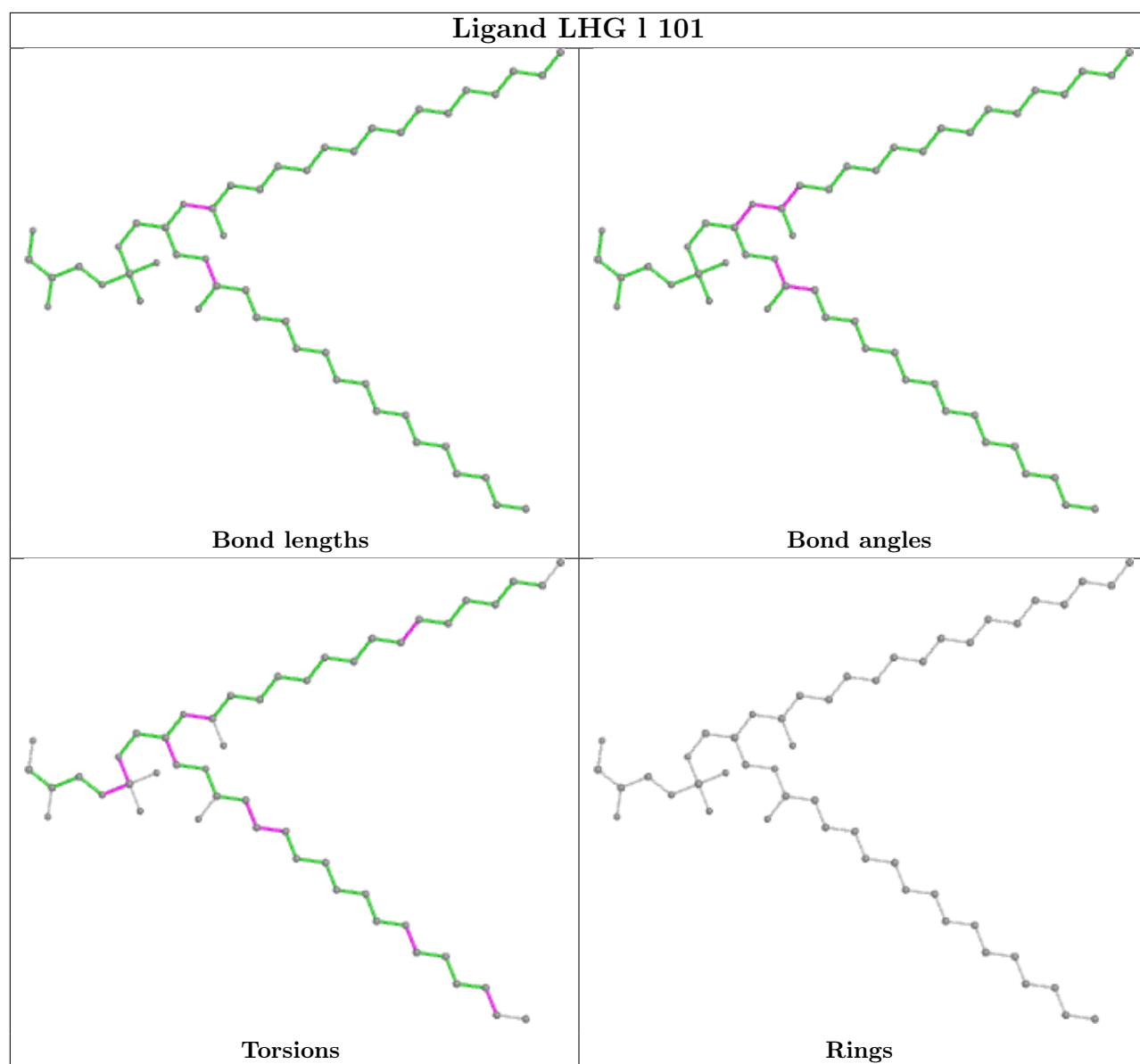


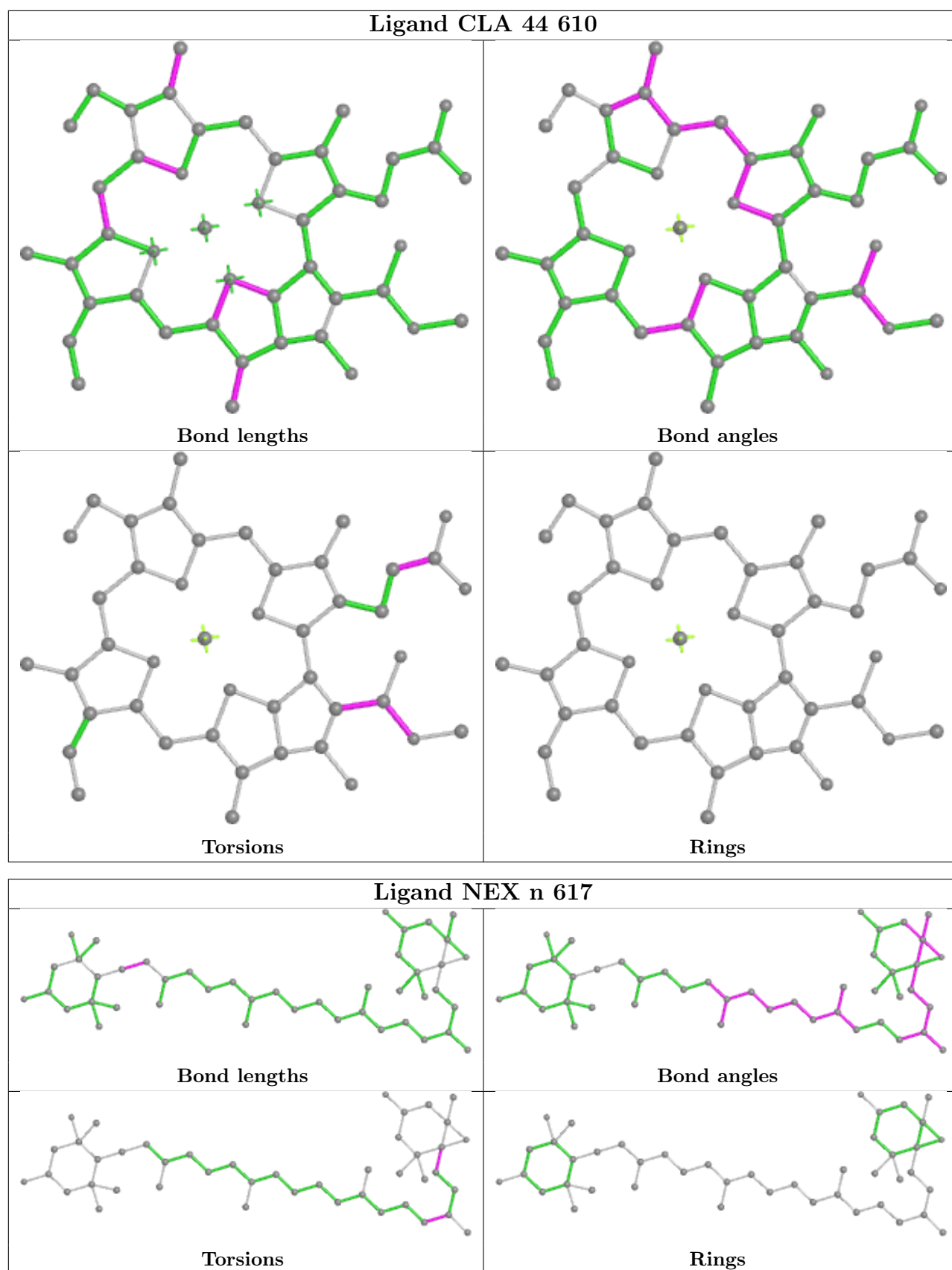
Rings

Ligand CHL 4 302

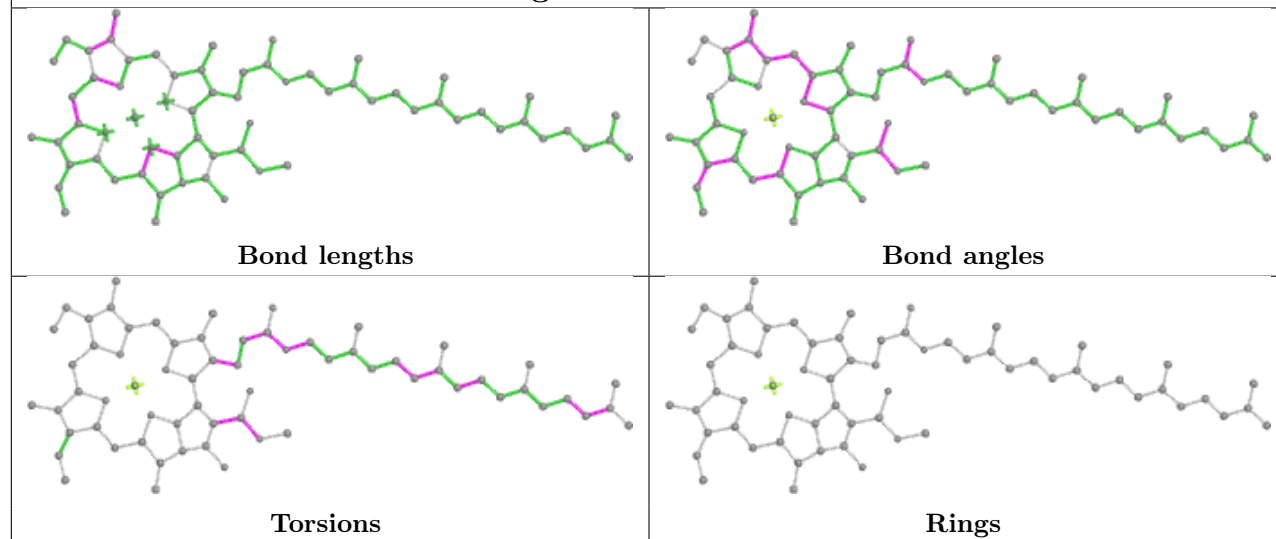




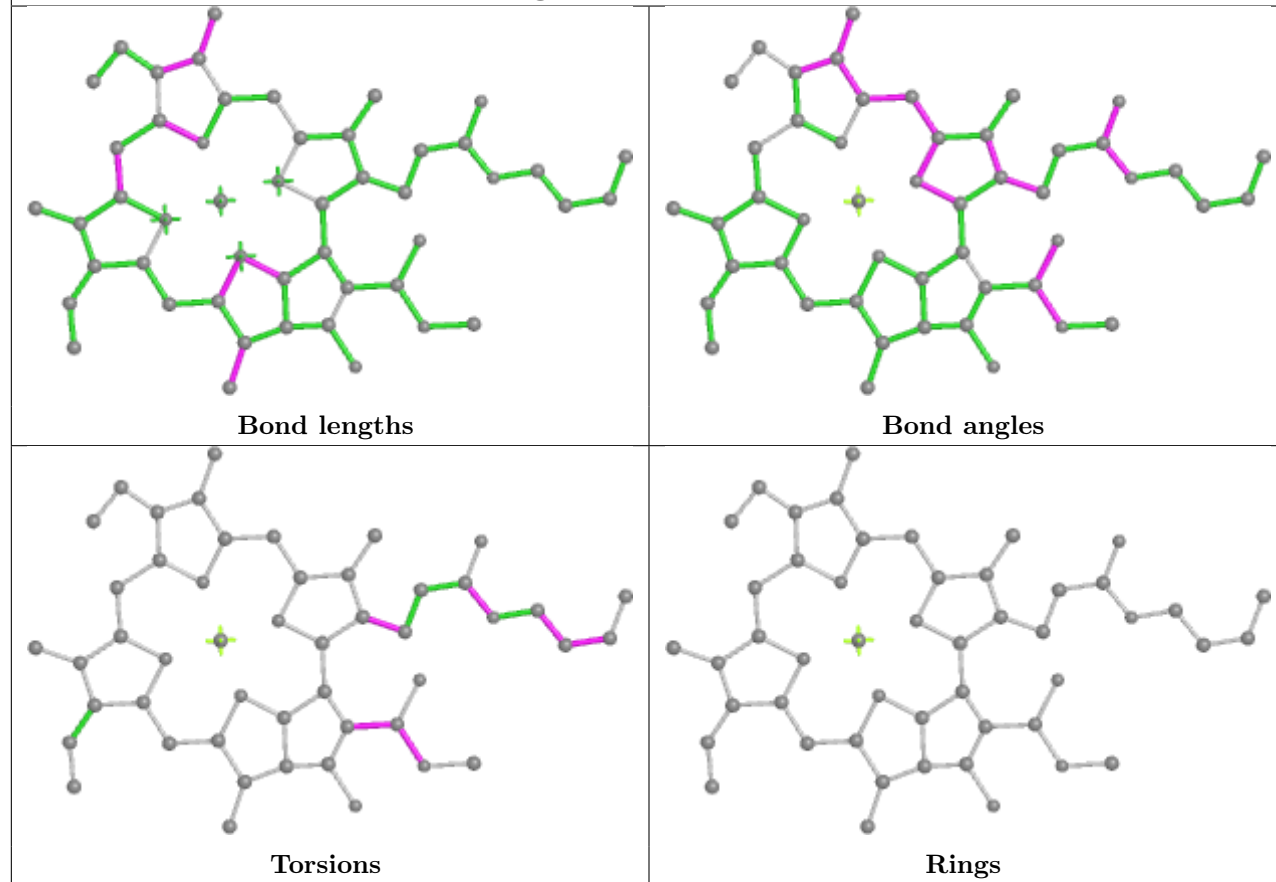


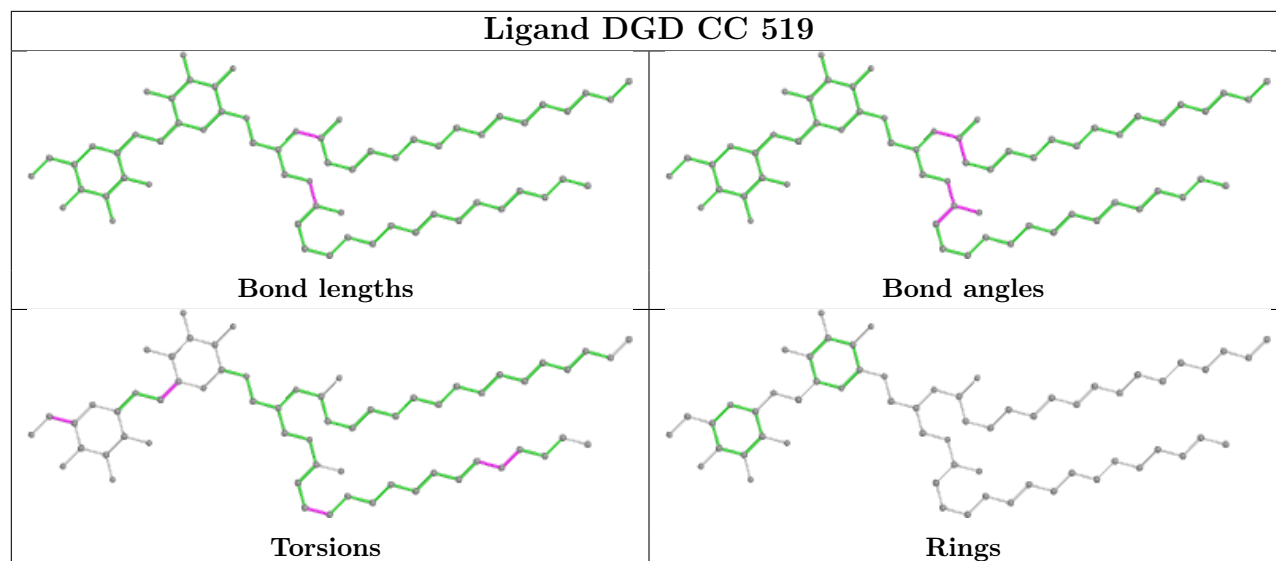
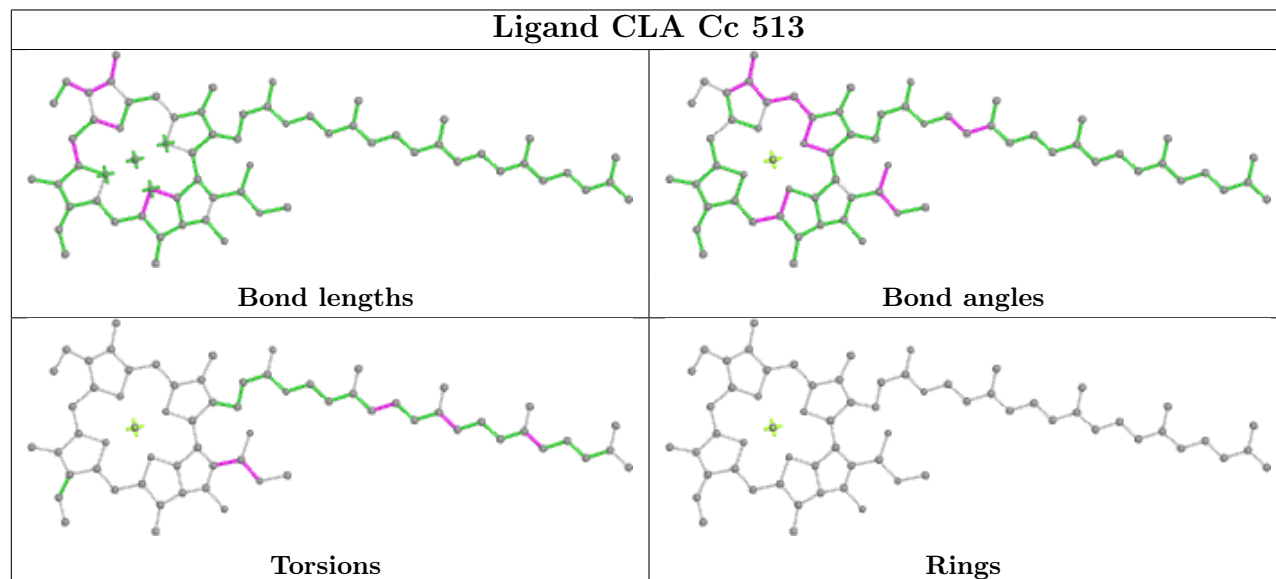


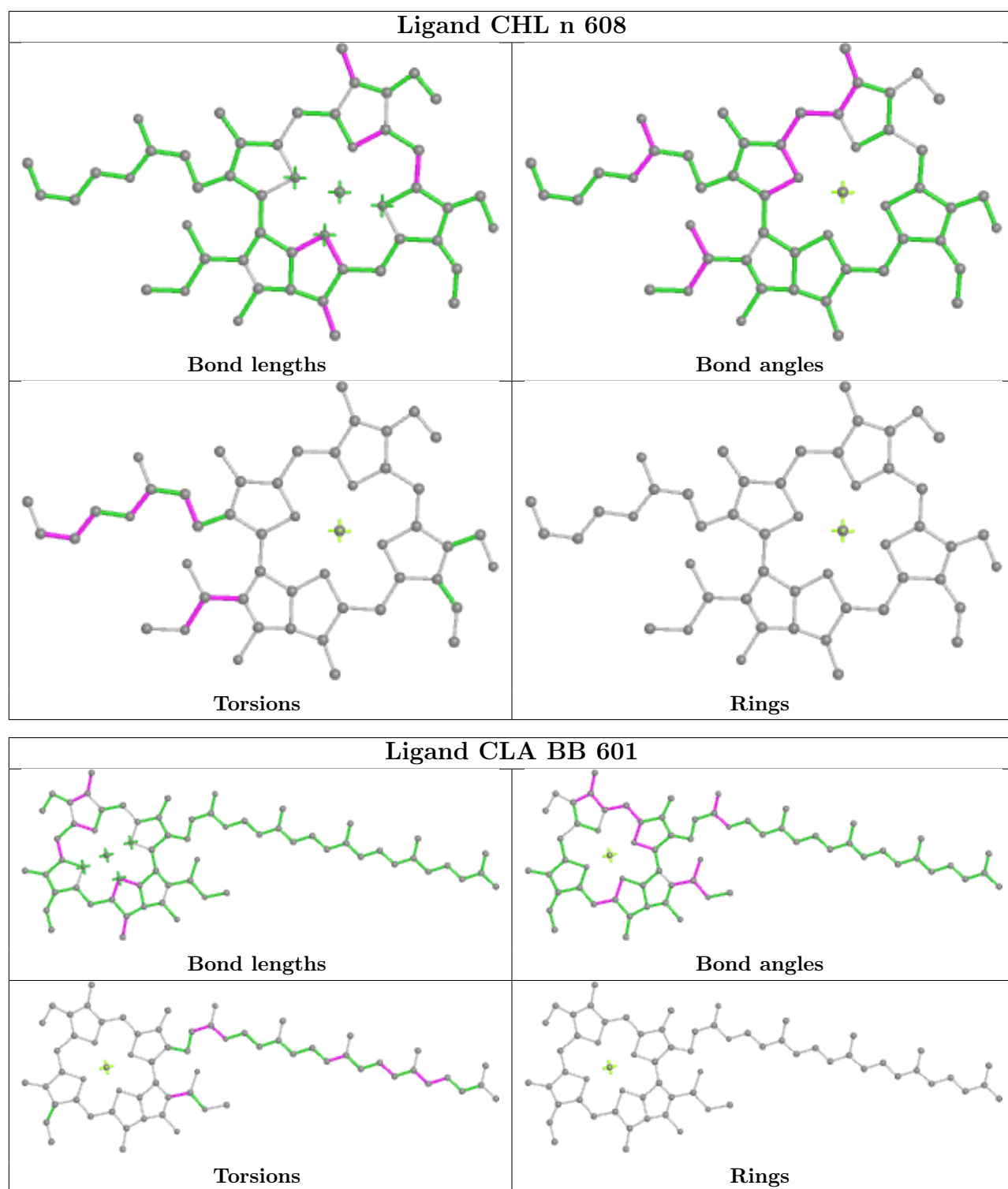
Ligand CLA Y 602

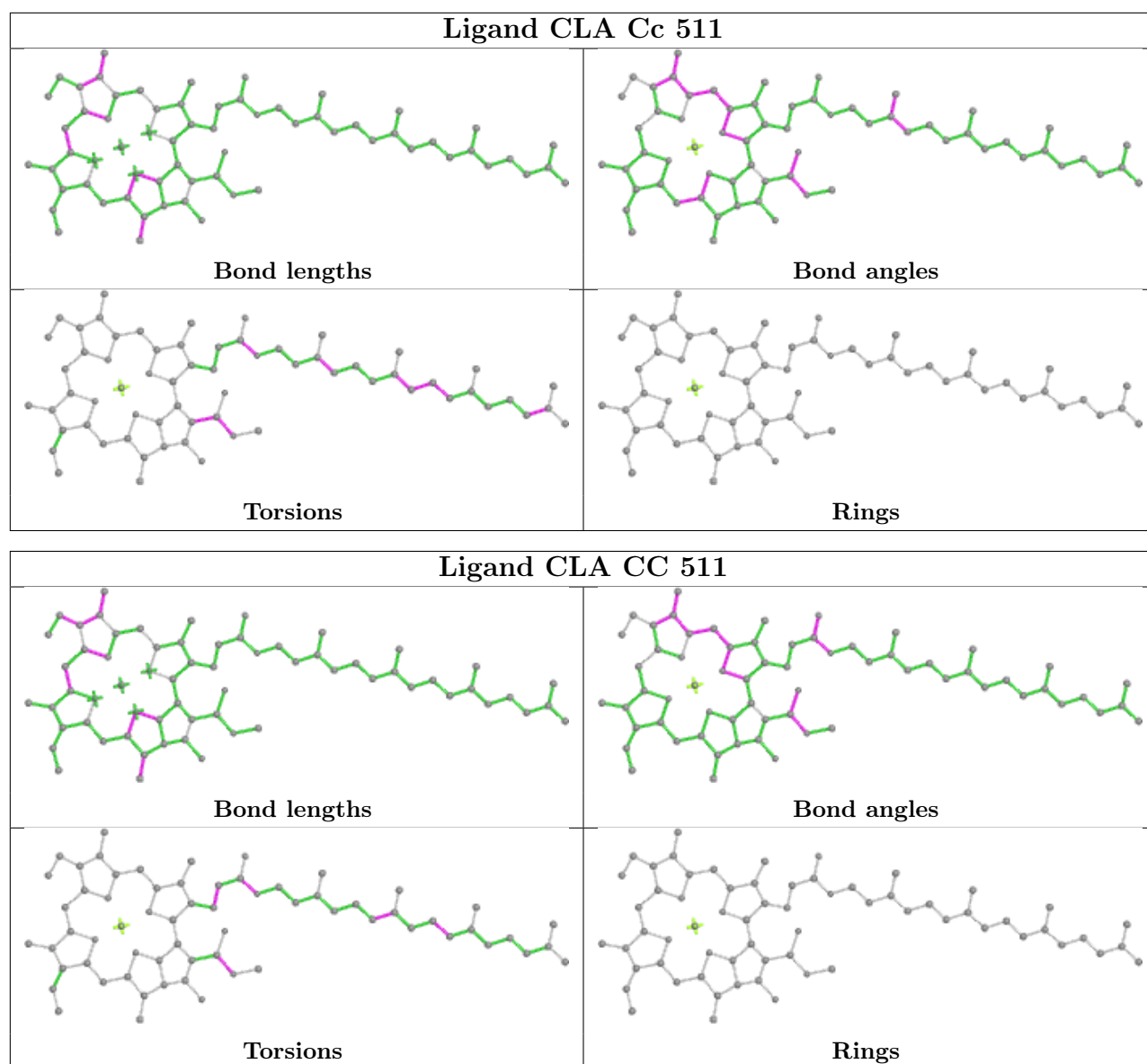


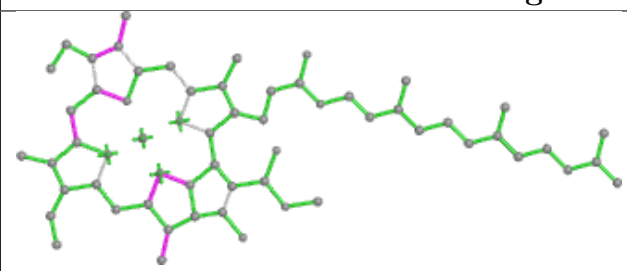
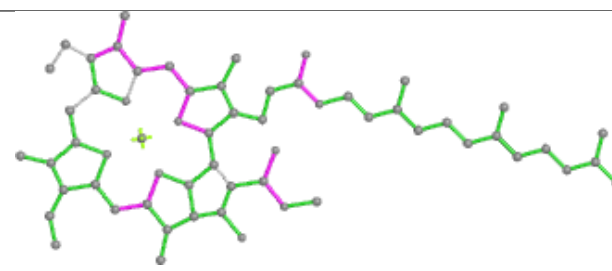
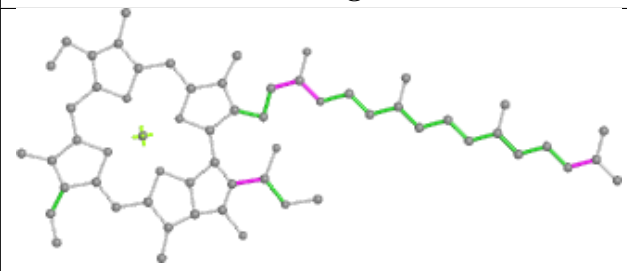
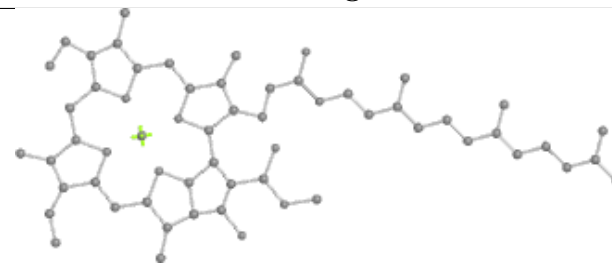
Ligand CLA Y 614

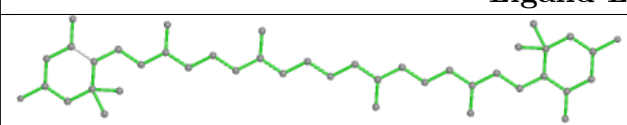
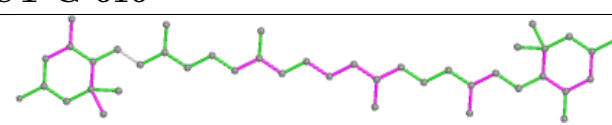
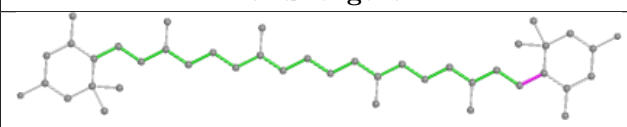
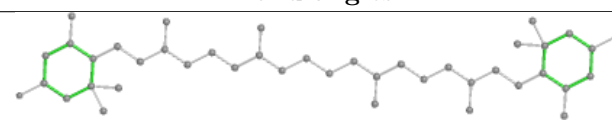


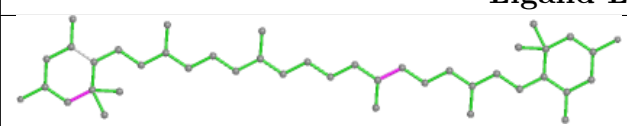
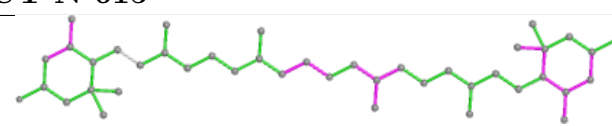
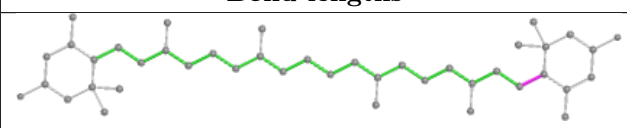
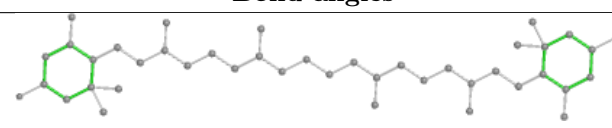
Ligand DGD CC 519**Ligand CLA Cc 513**


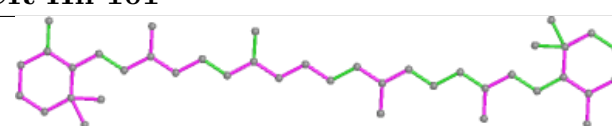
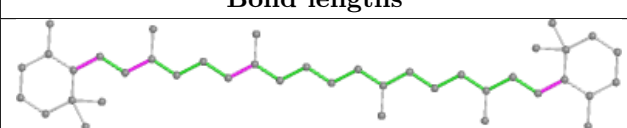
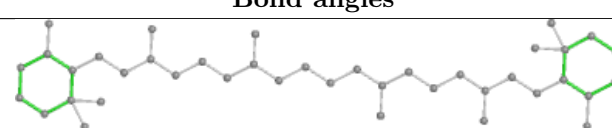


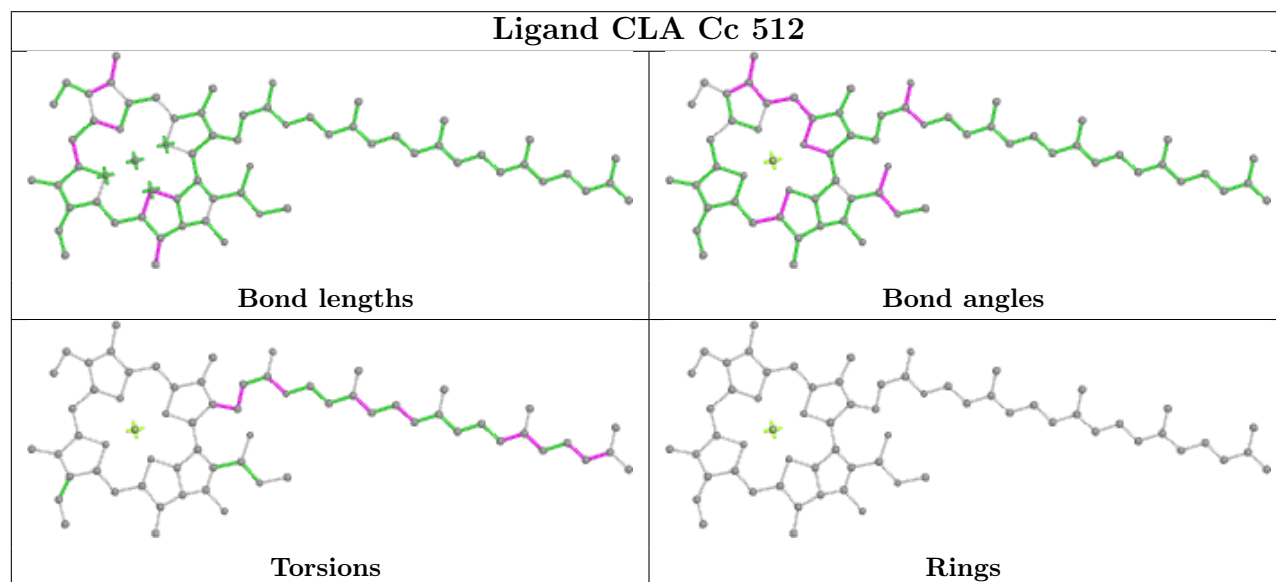
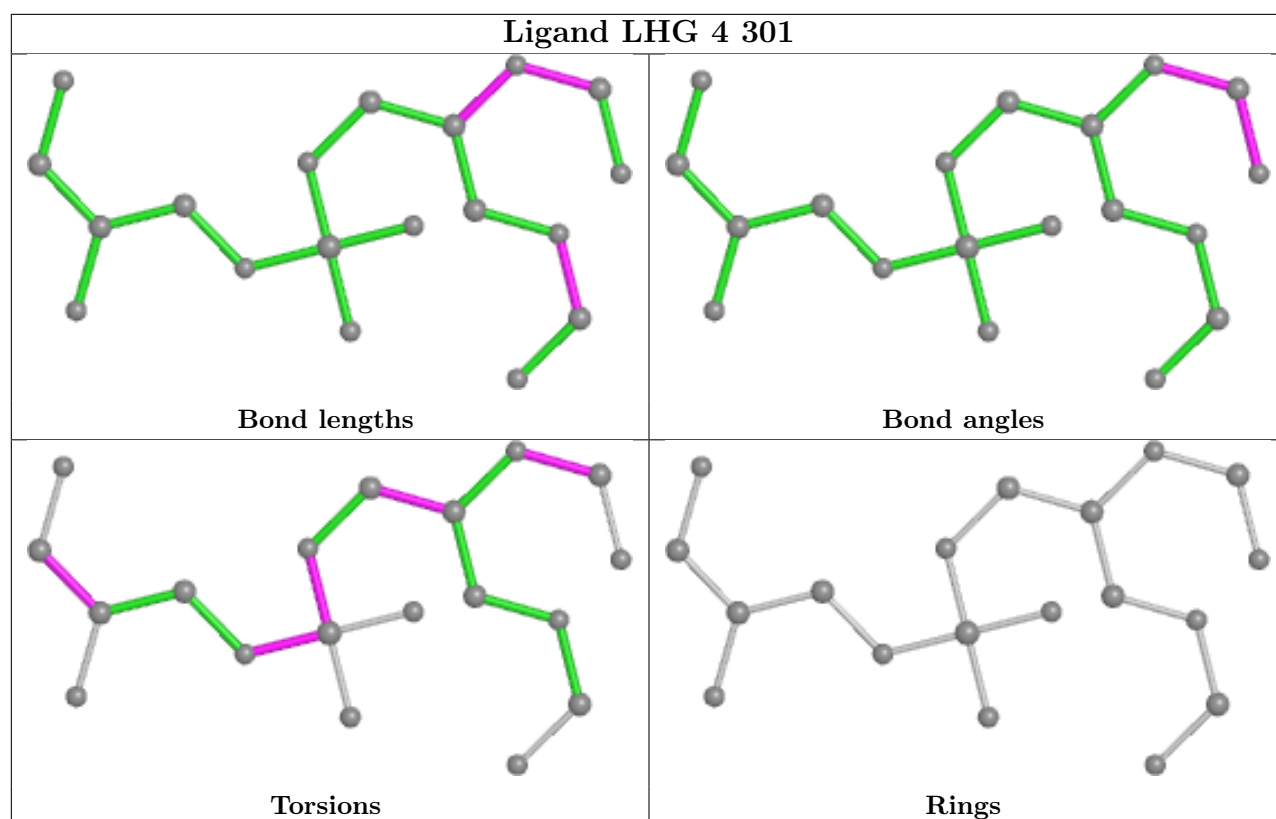


Ligand CLA a 410	
	
Bond lengths	Bond angles
	
Torsions	Rings

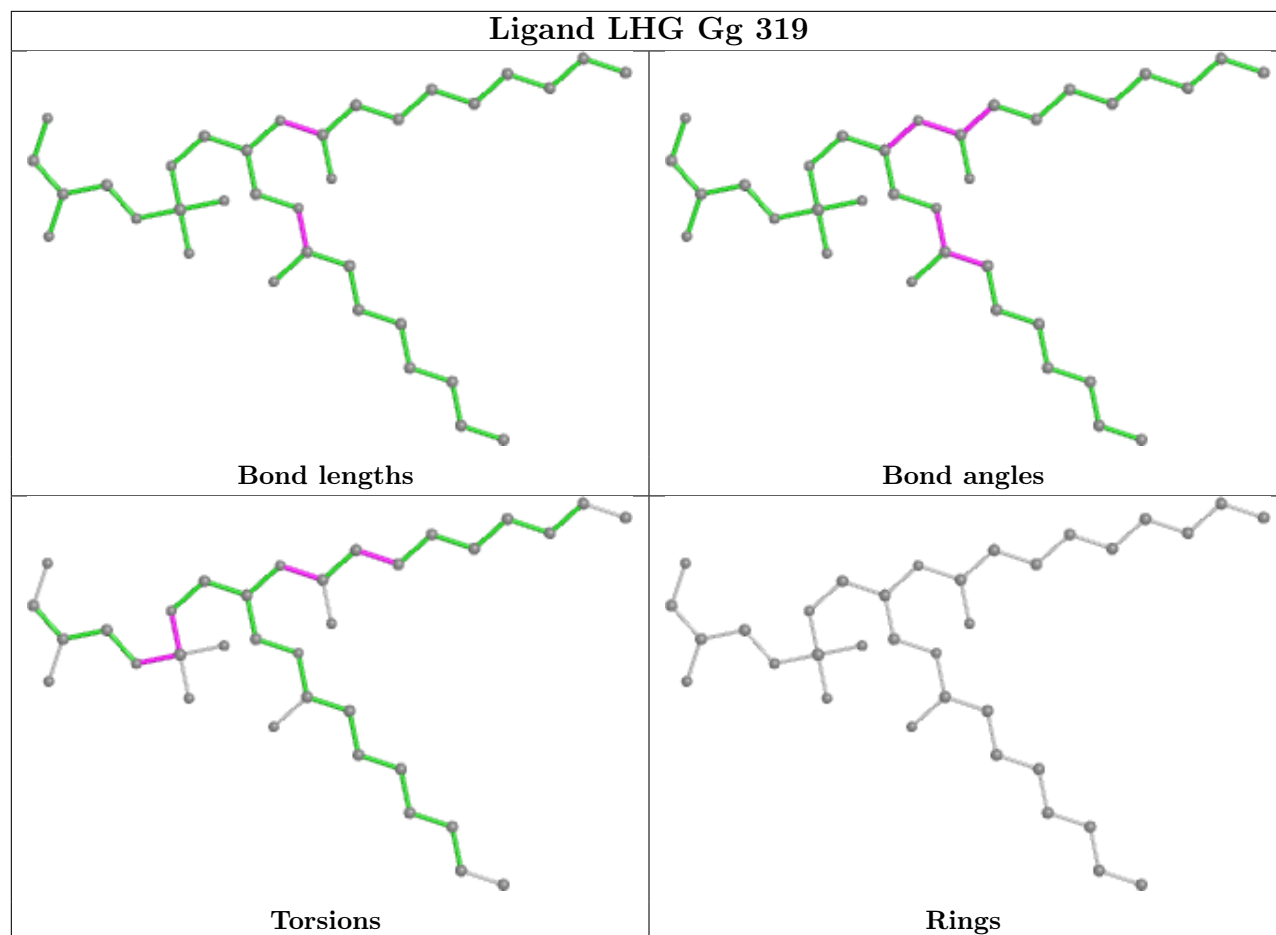
Ligand LUT G 616	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand LUT N 615	
	
Bond lengths	Bond angles
	
Torsions	Rings

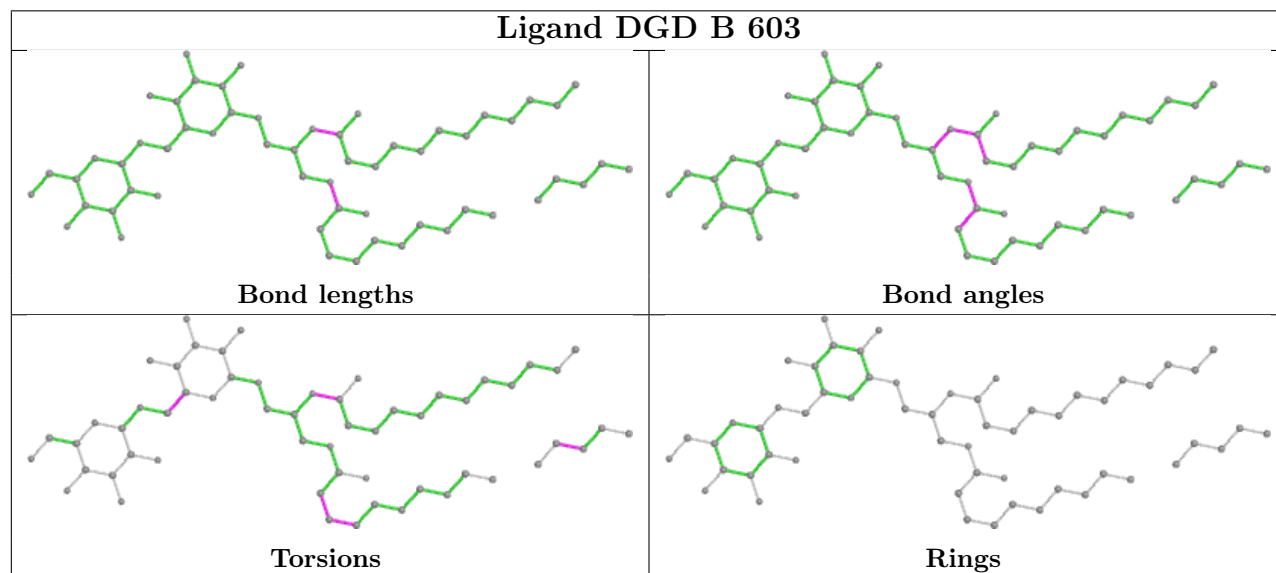
Ligand BCR Hh 101	
	
Bond lengths	Bond angles
	
Torsions	Rings



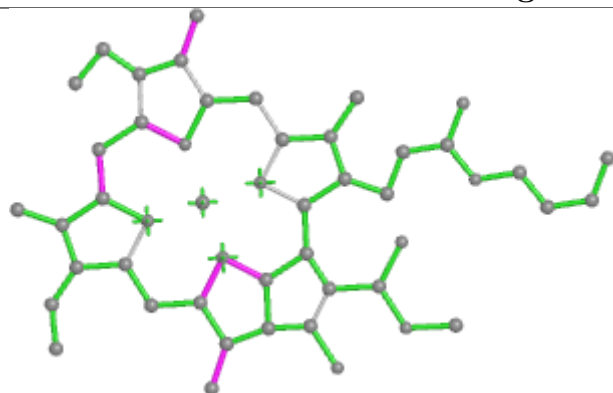
Ligand LHG Gg 319



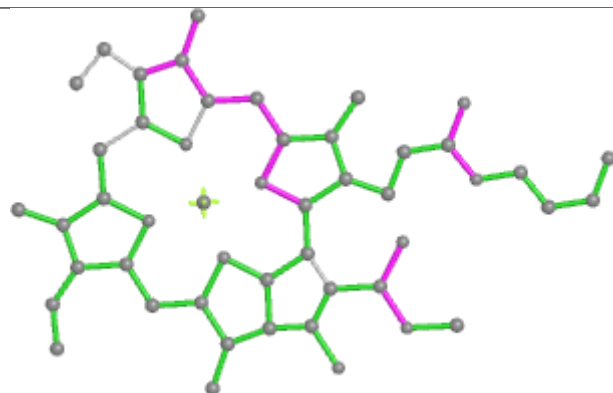
Ligand DGD B 603



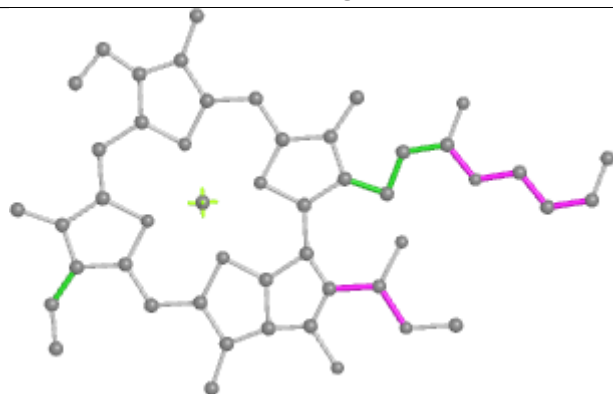
Ligand CLA S 611



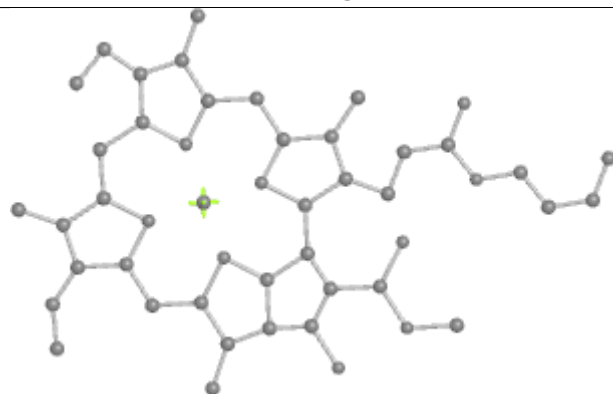
Bond lengths



Bond angles

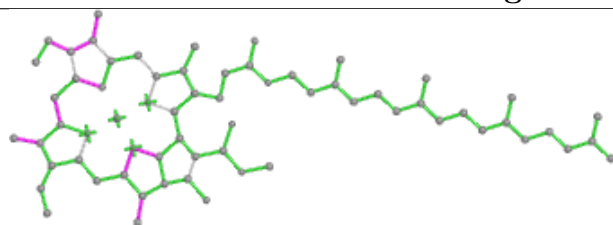


Torsions

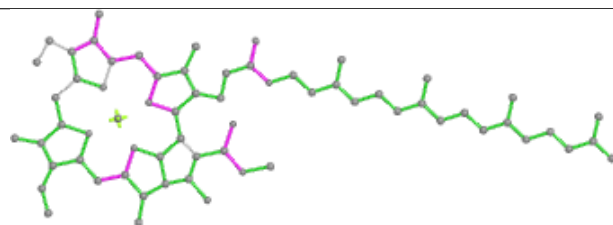


Rings

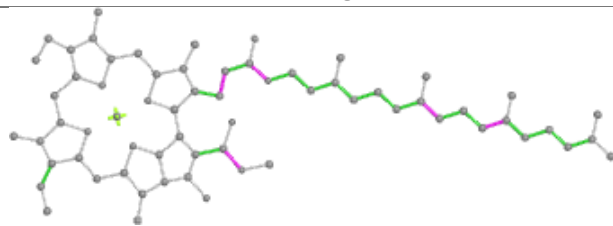
Ligand CLA Bb 608



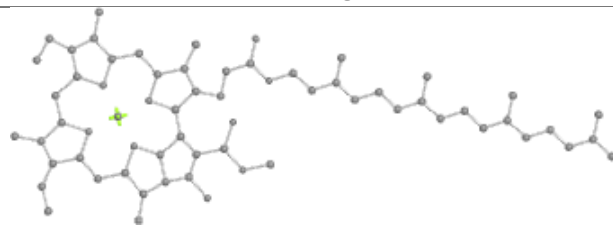
Bond lengths



Bond angles

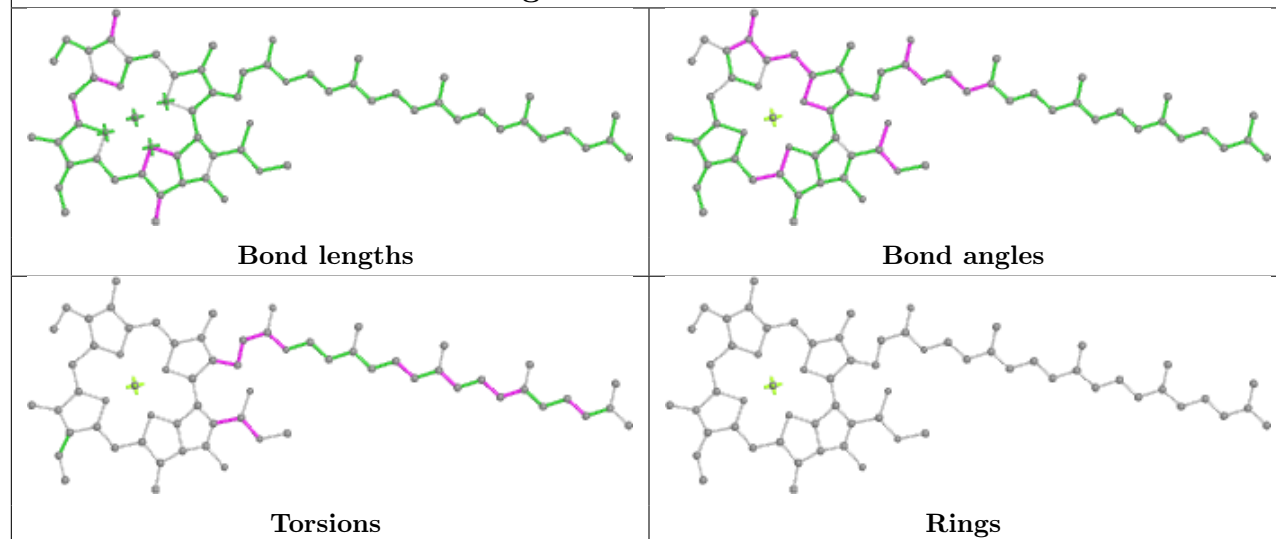


Torsions

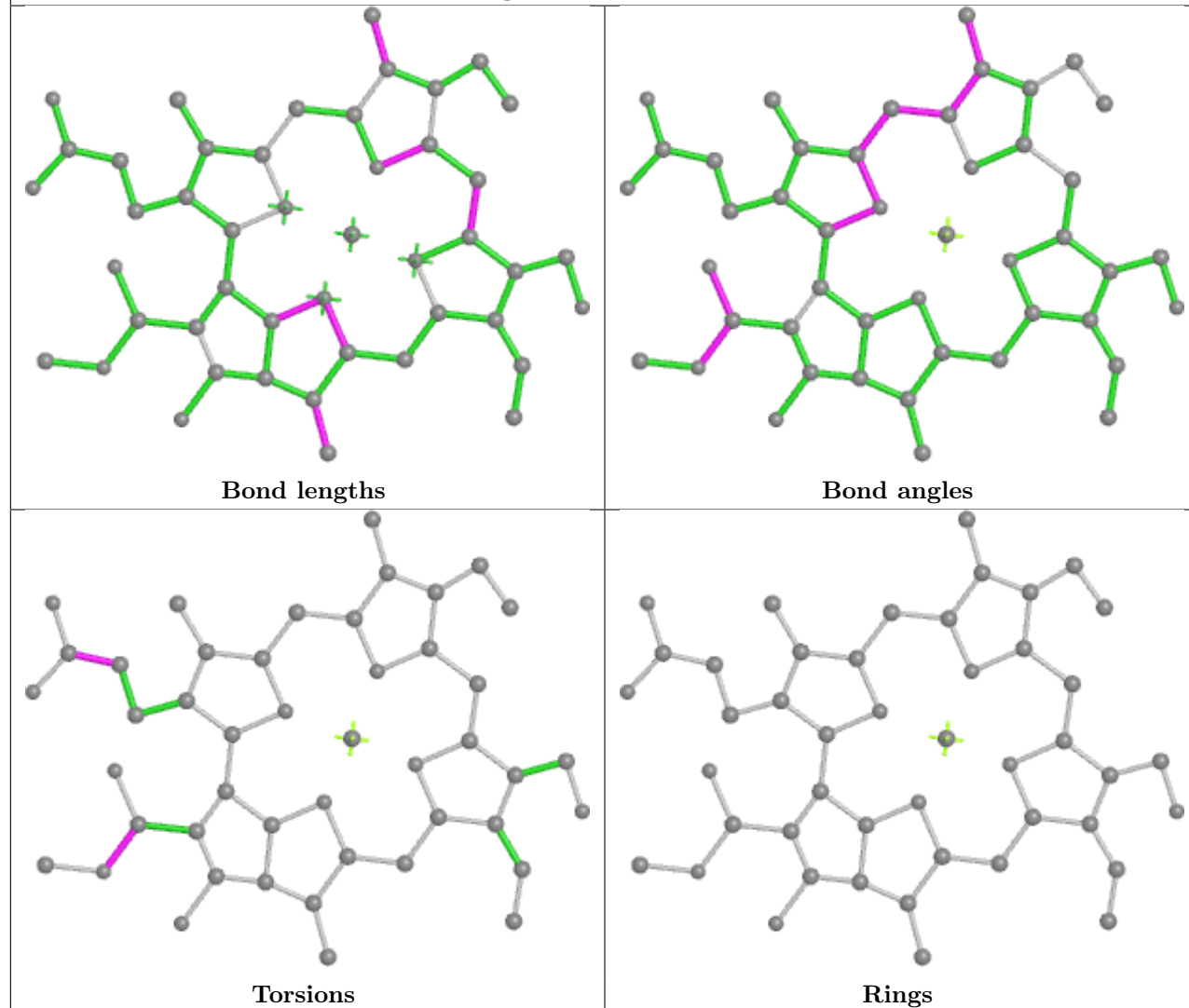


Rings

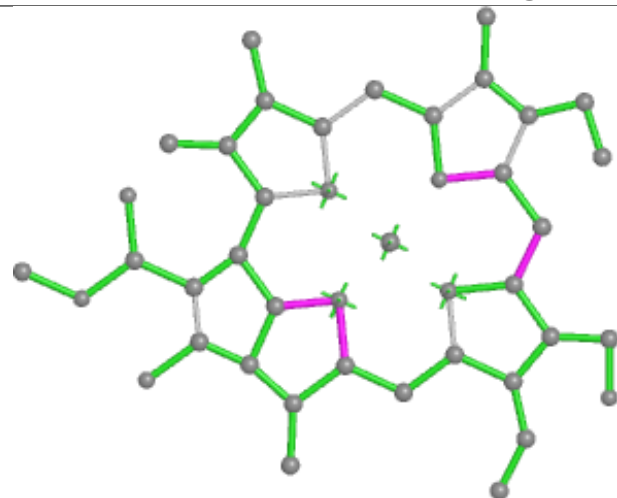
Ligand CLA Bb 609



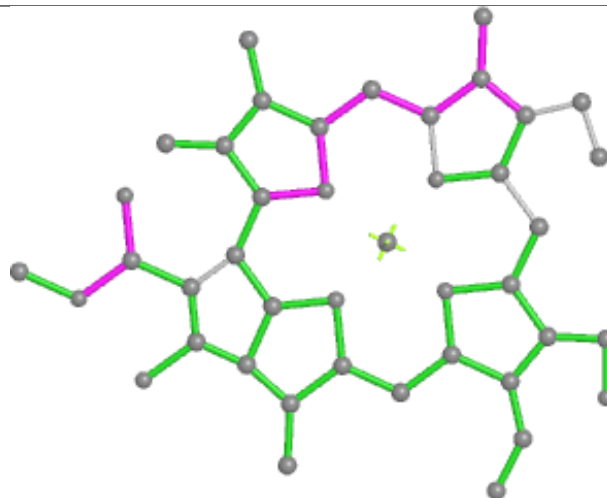
Ligand CHL 4 307



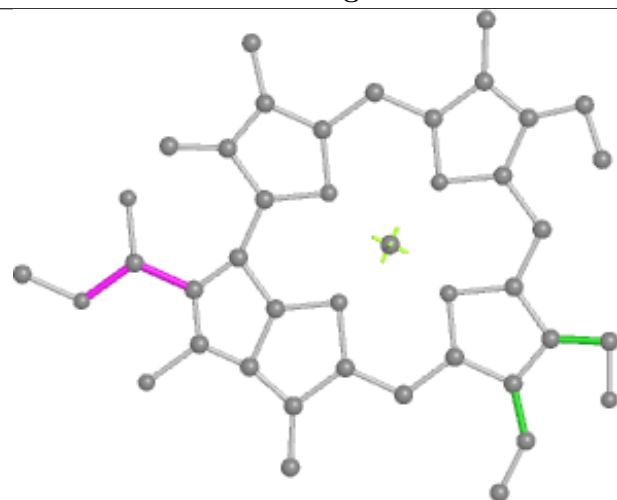
Ligand CHL S 605



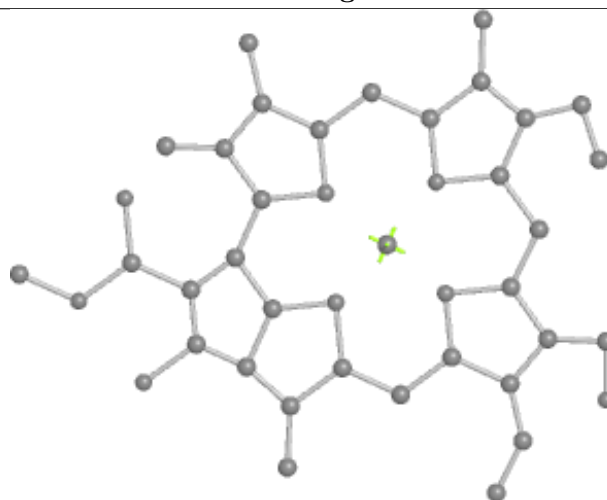
Bond lengths



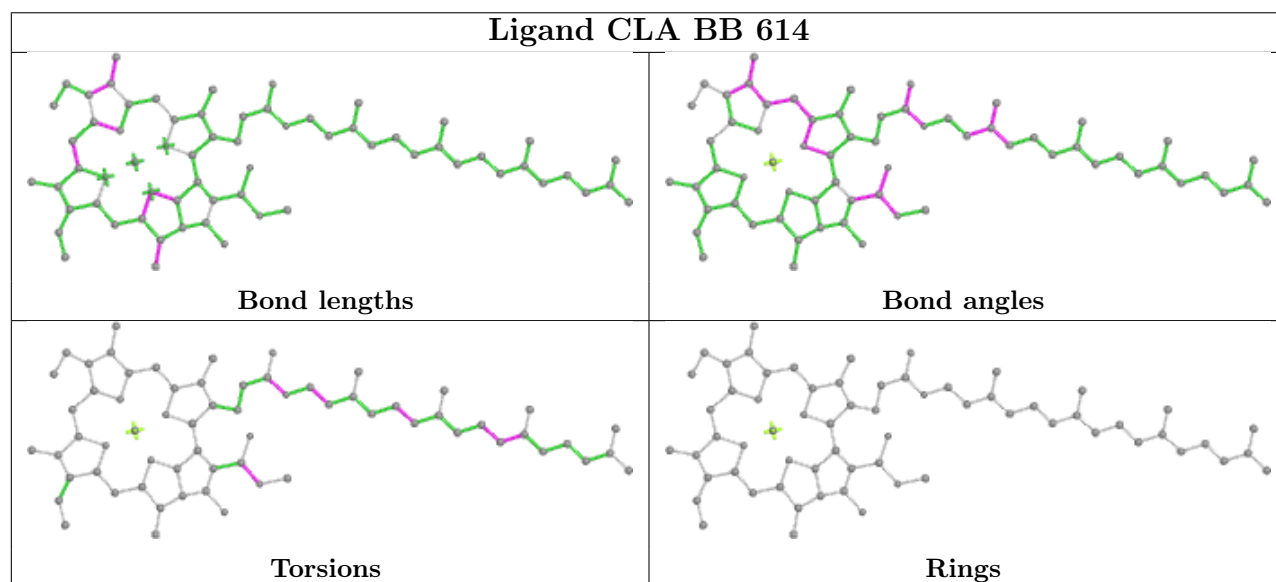
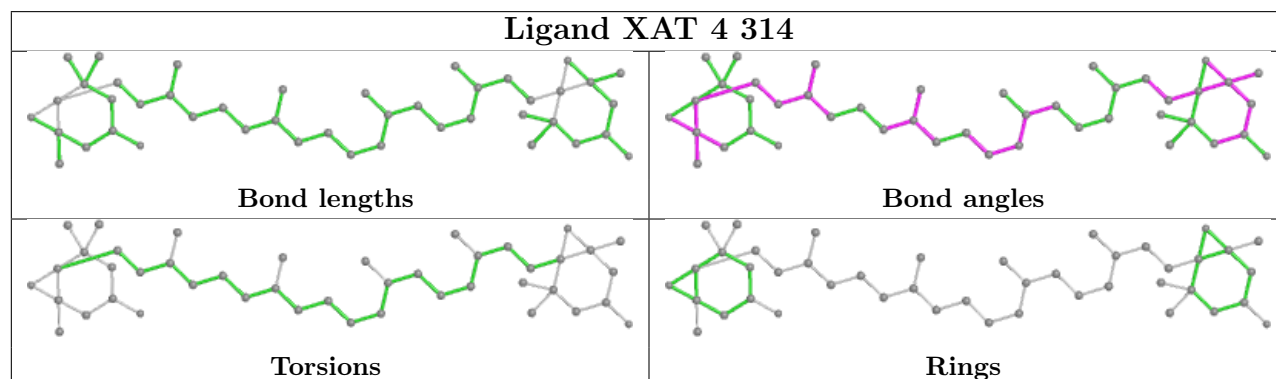
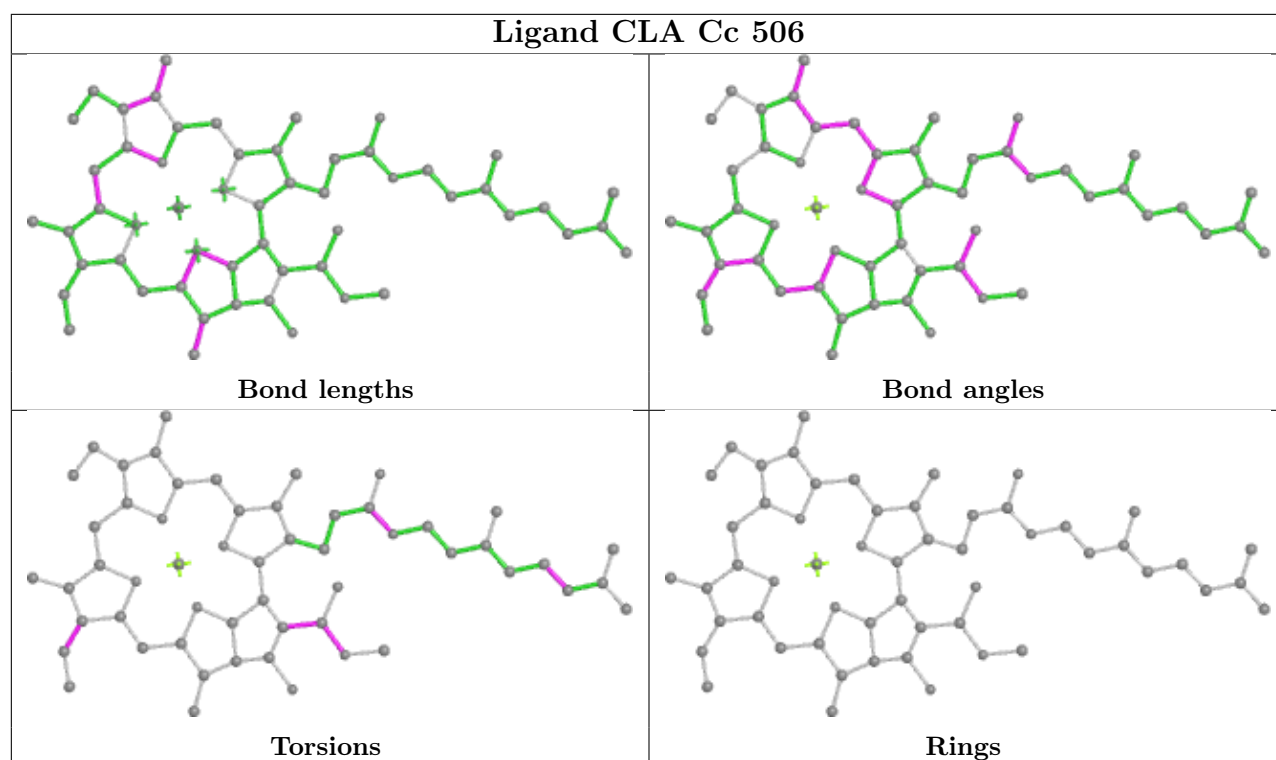
Bond angles



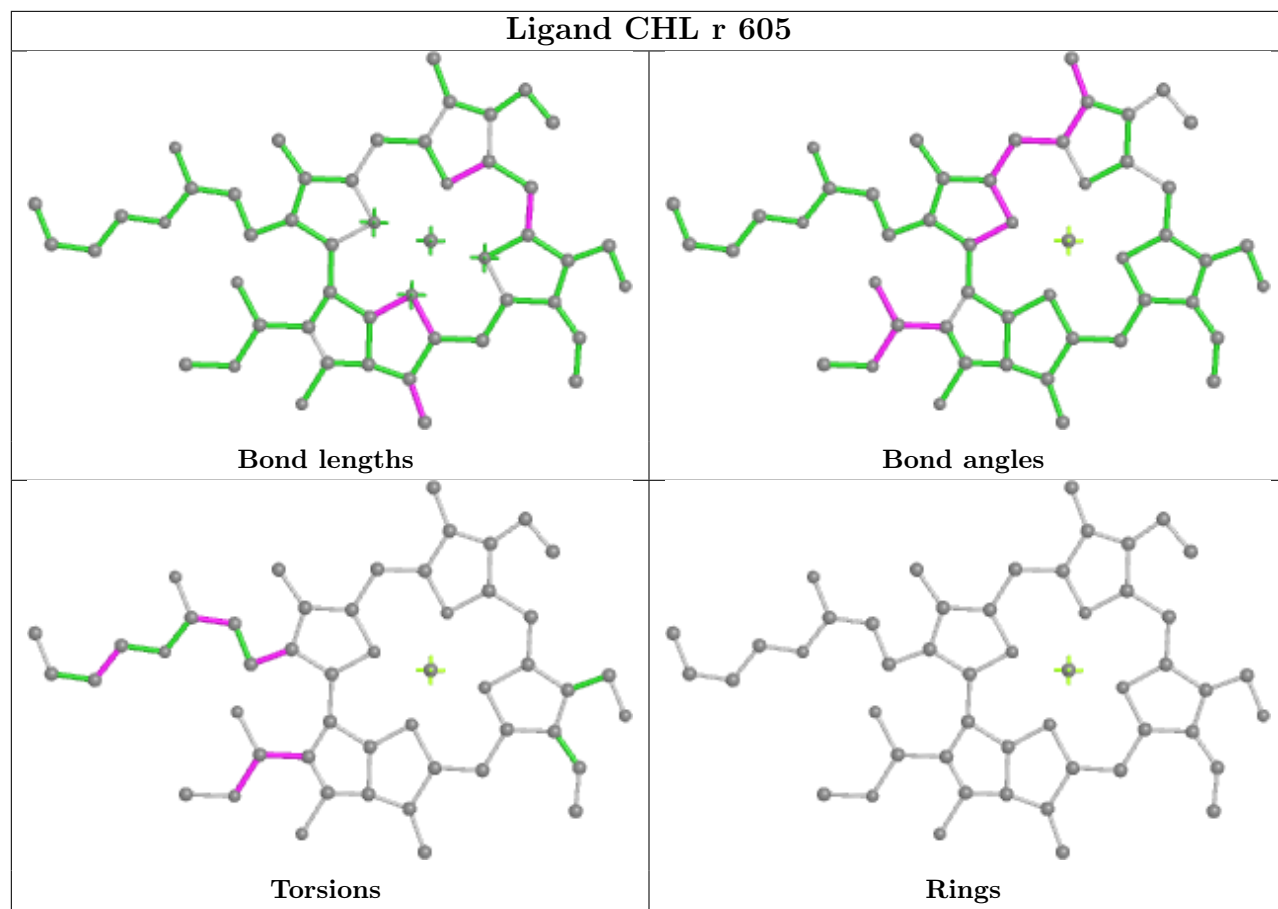
Torsions

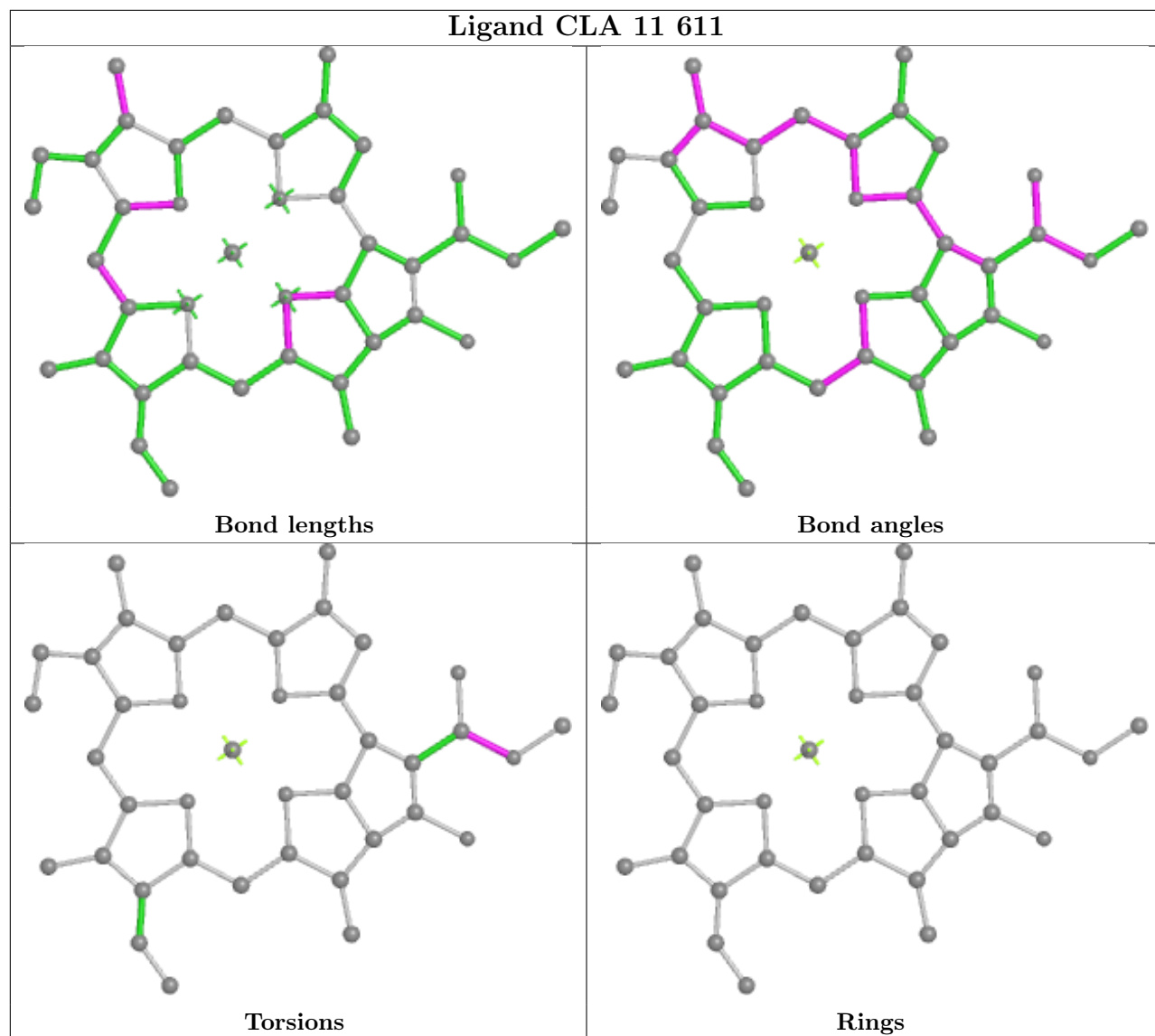


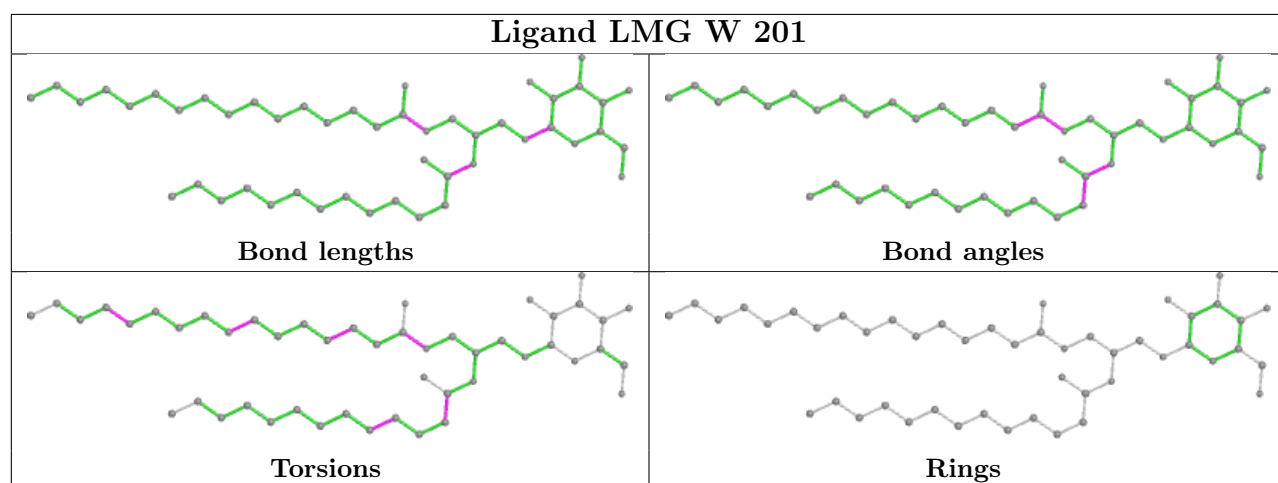
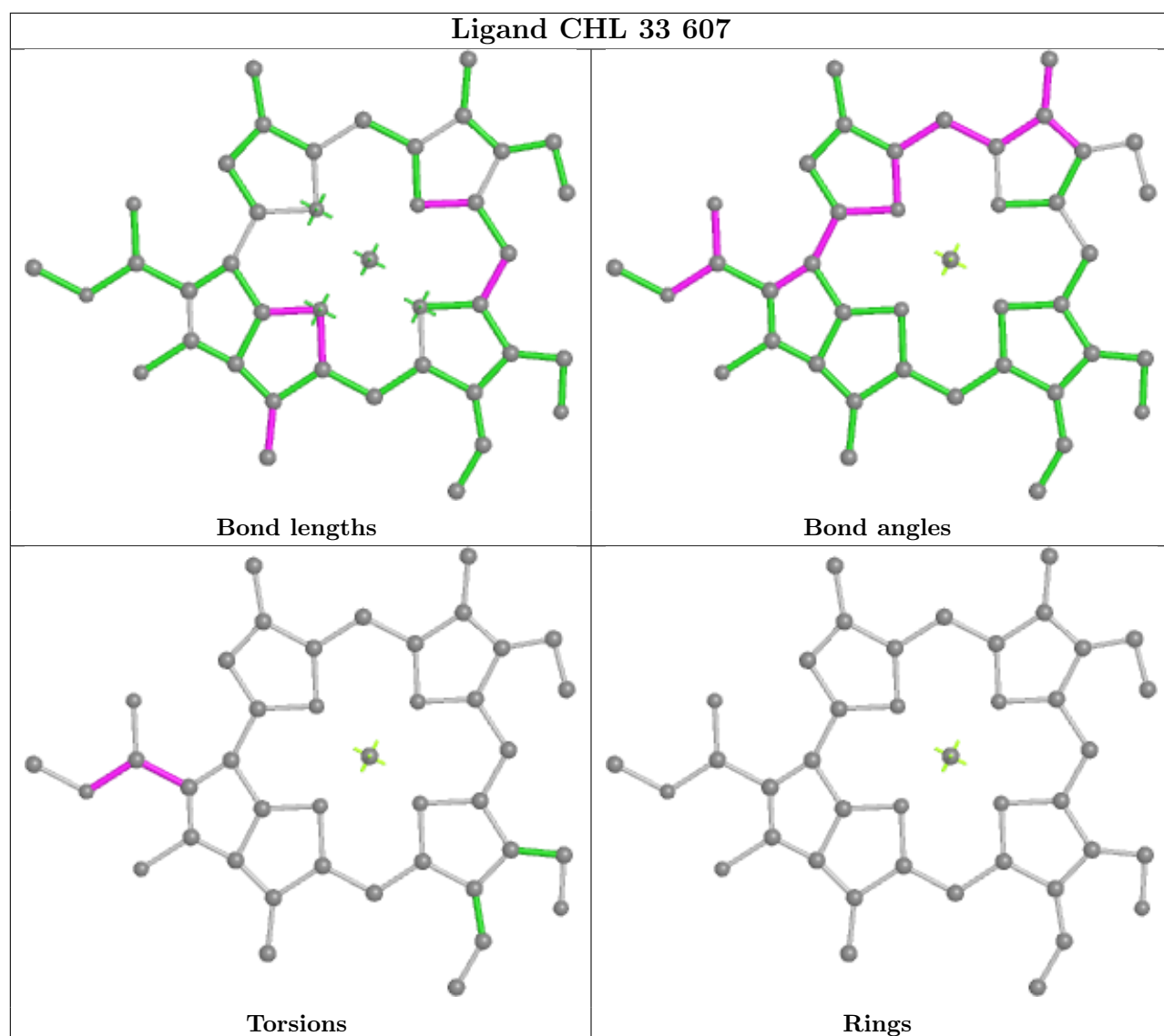
Rings



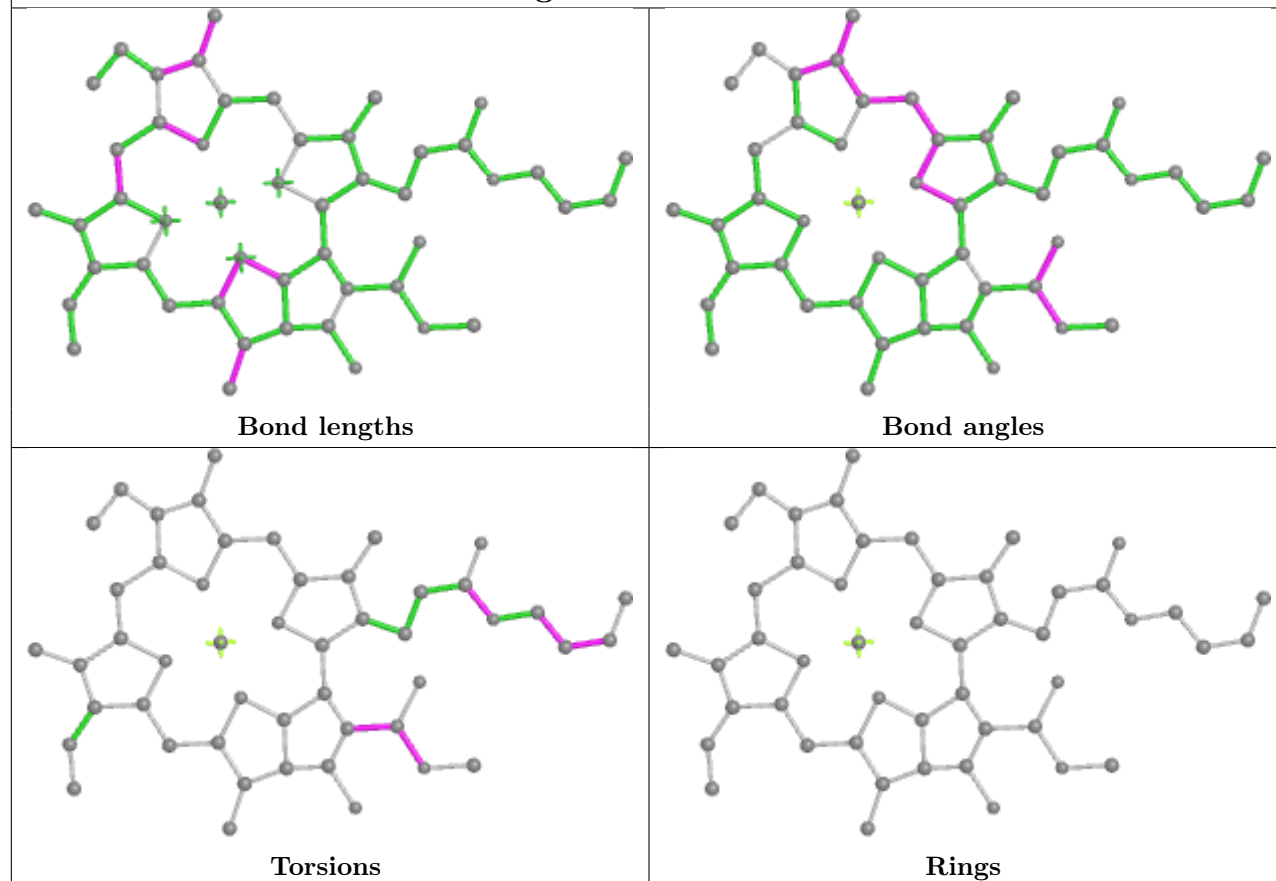
Ligand CHL r 605



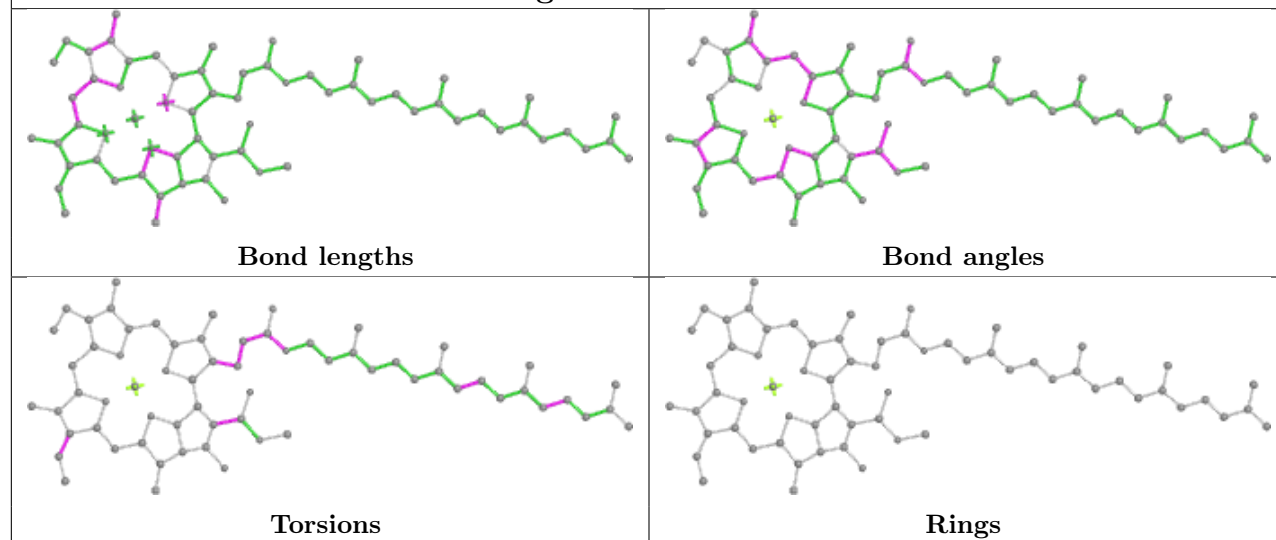


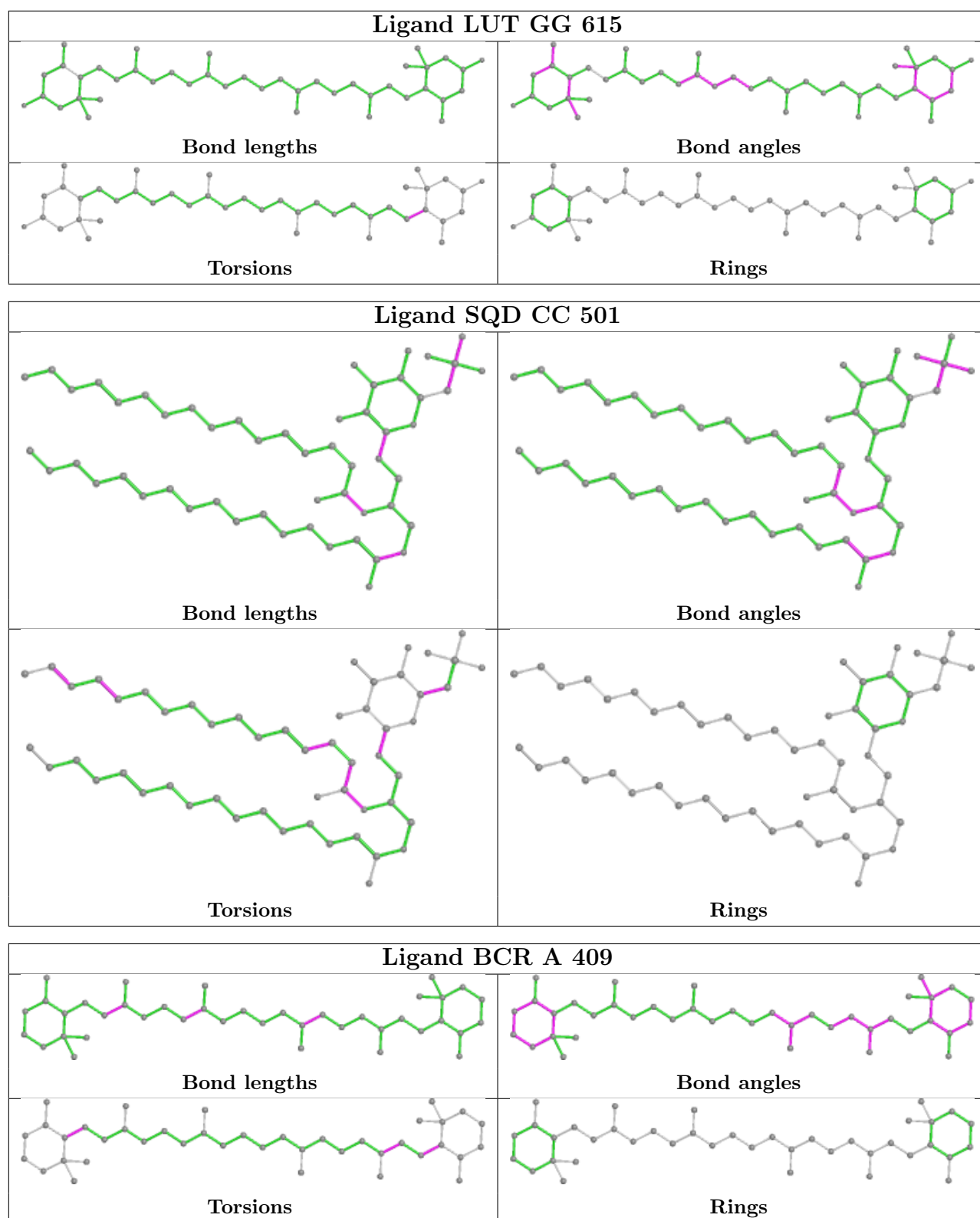


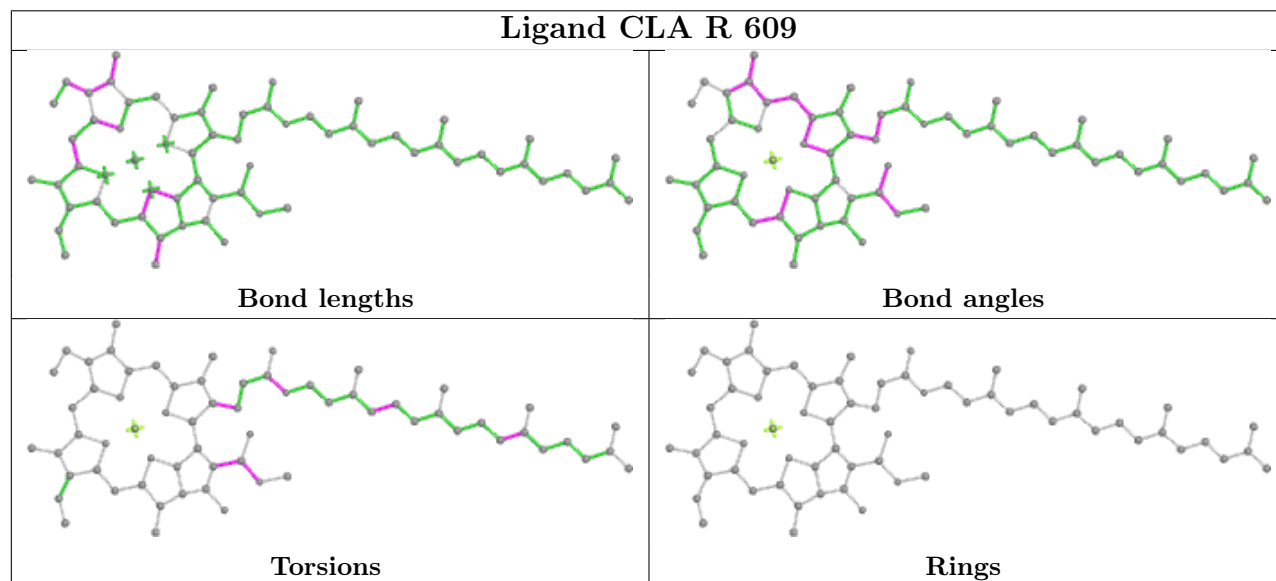
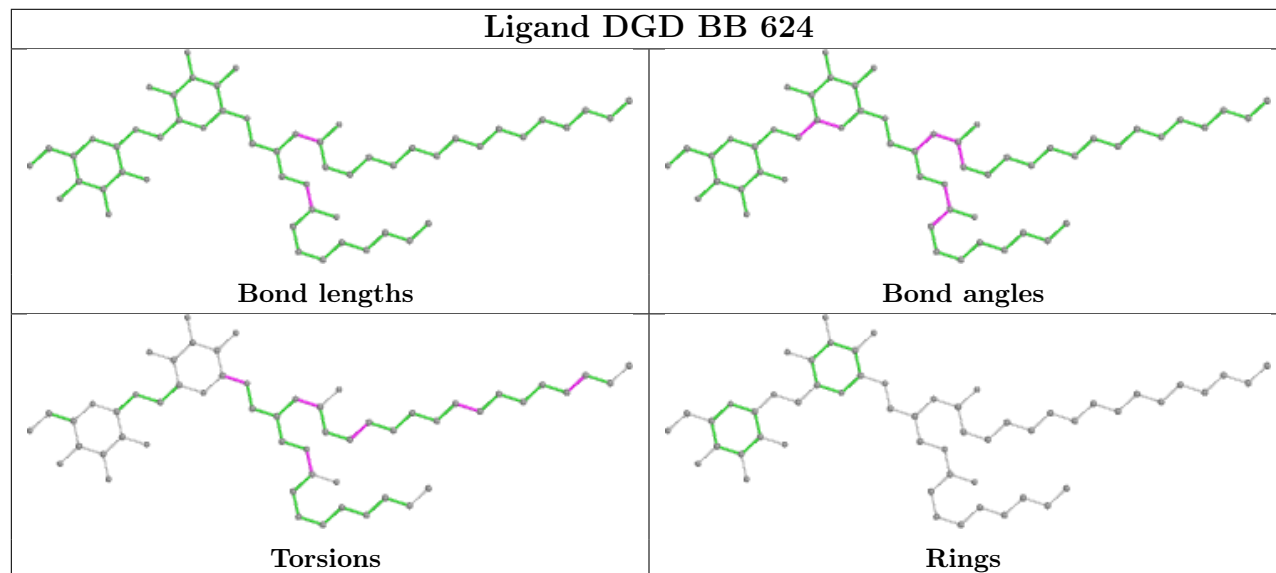
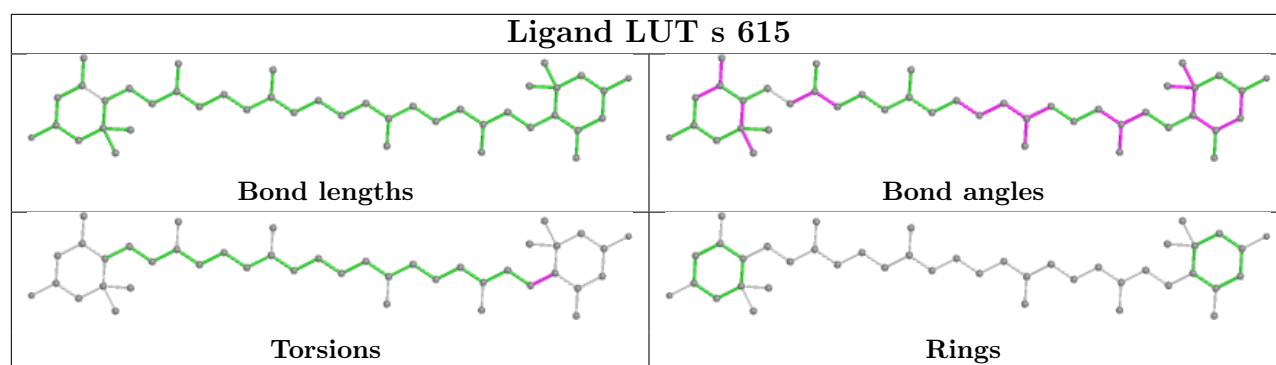
Ligand CLA S 610

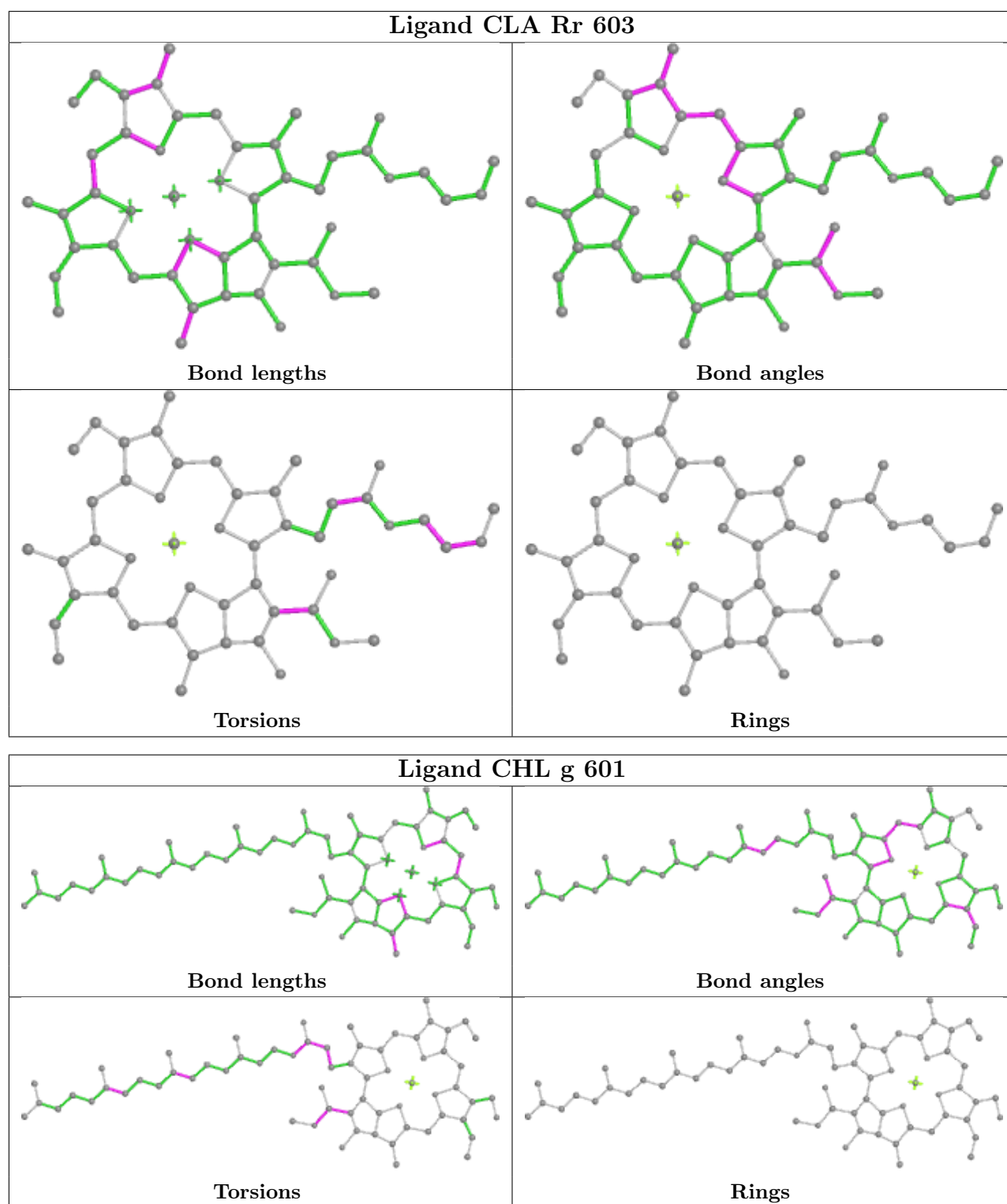


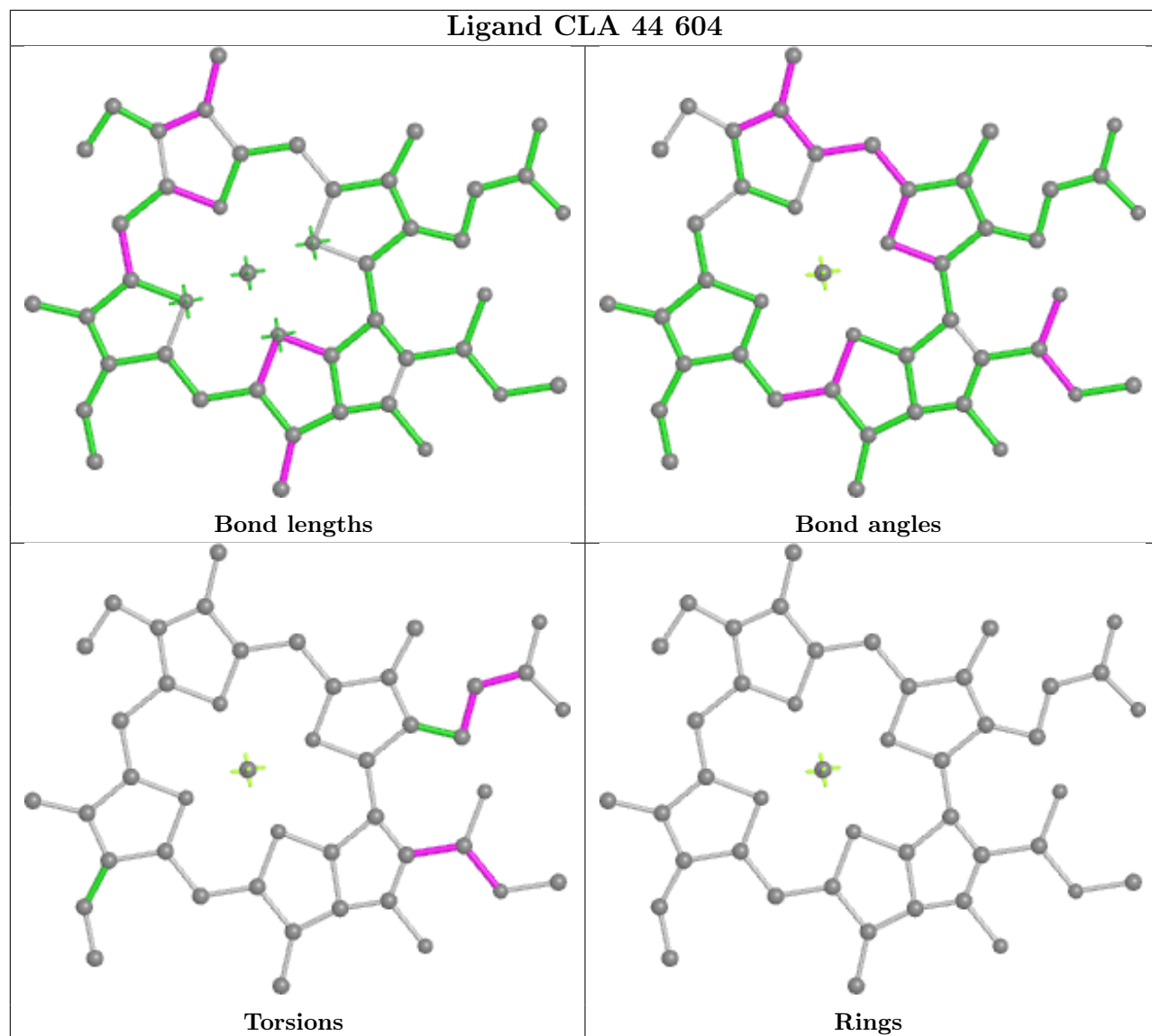
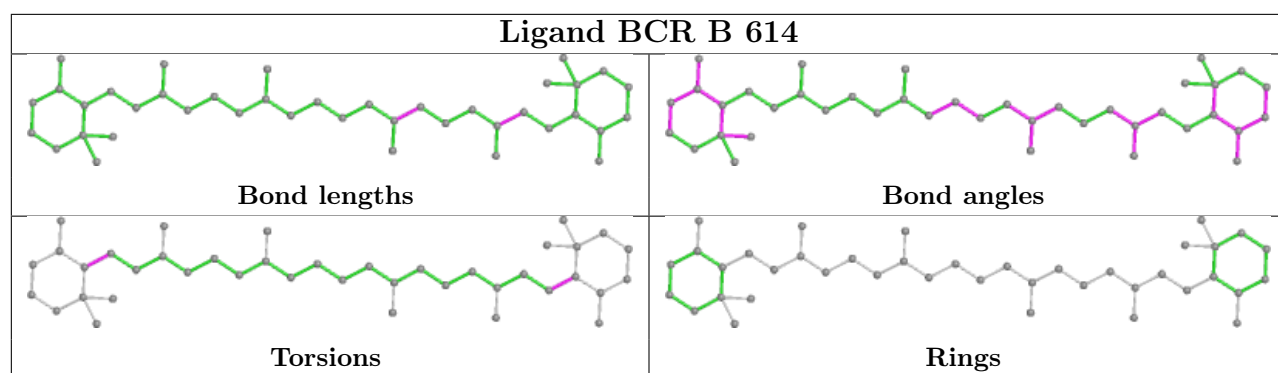
Ligand CLA a 406

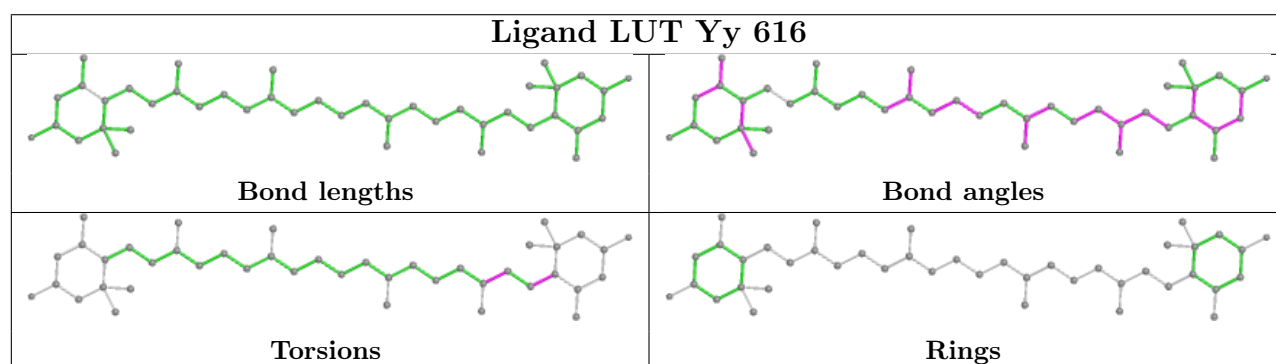
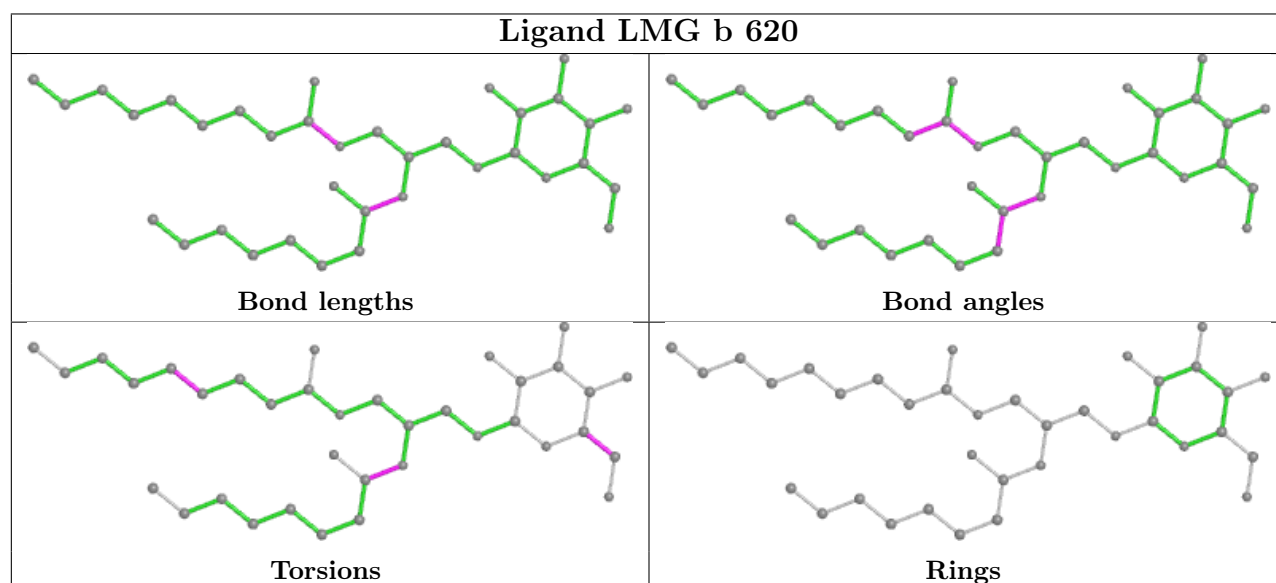
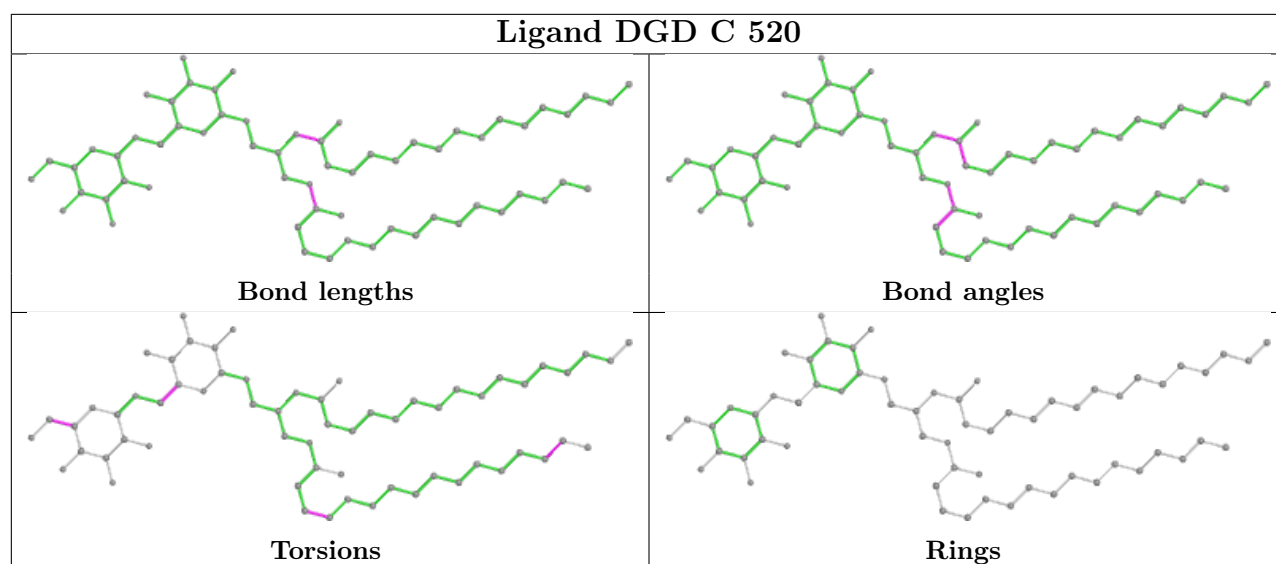


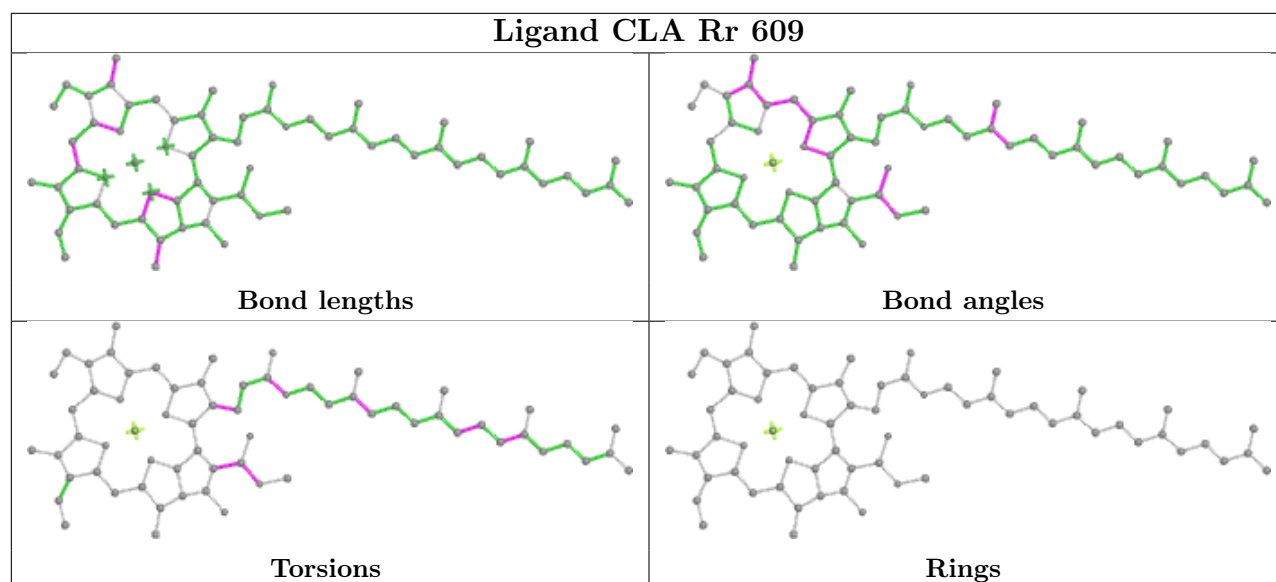
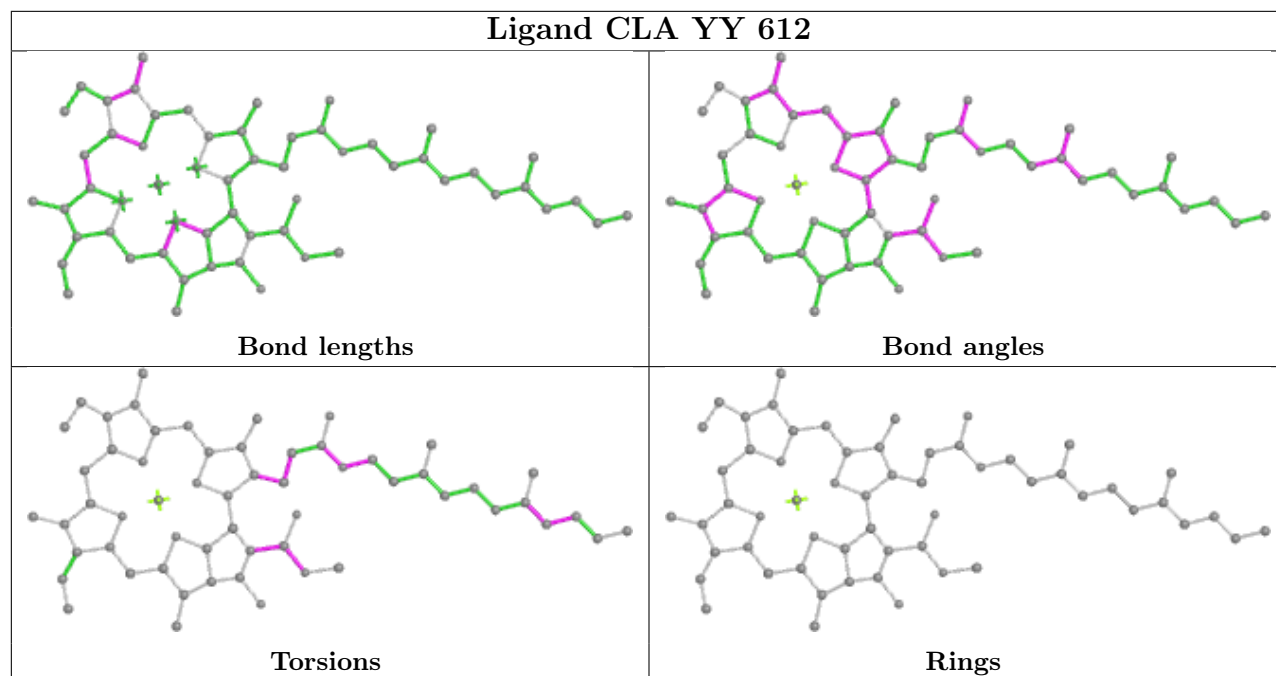
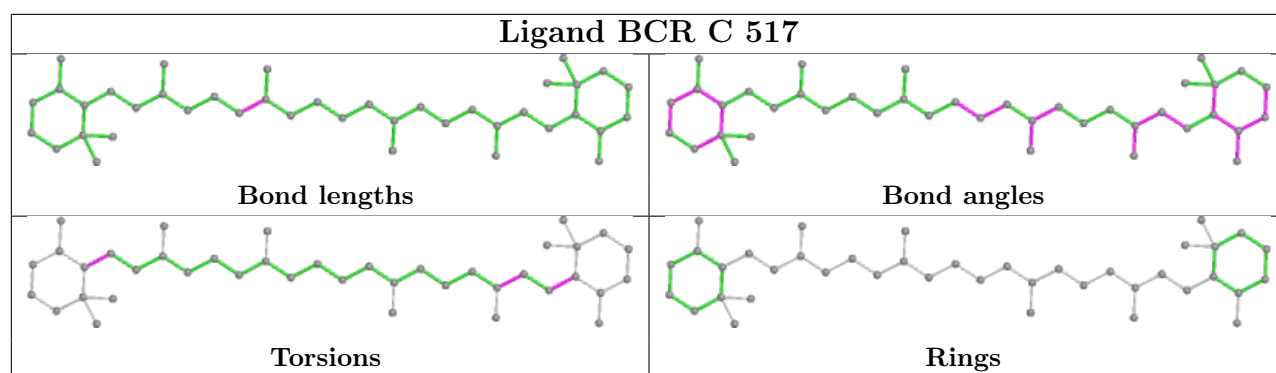




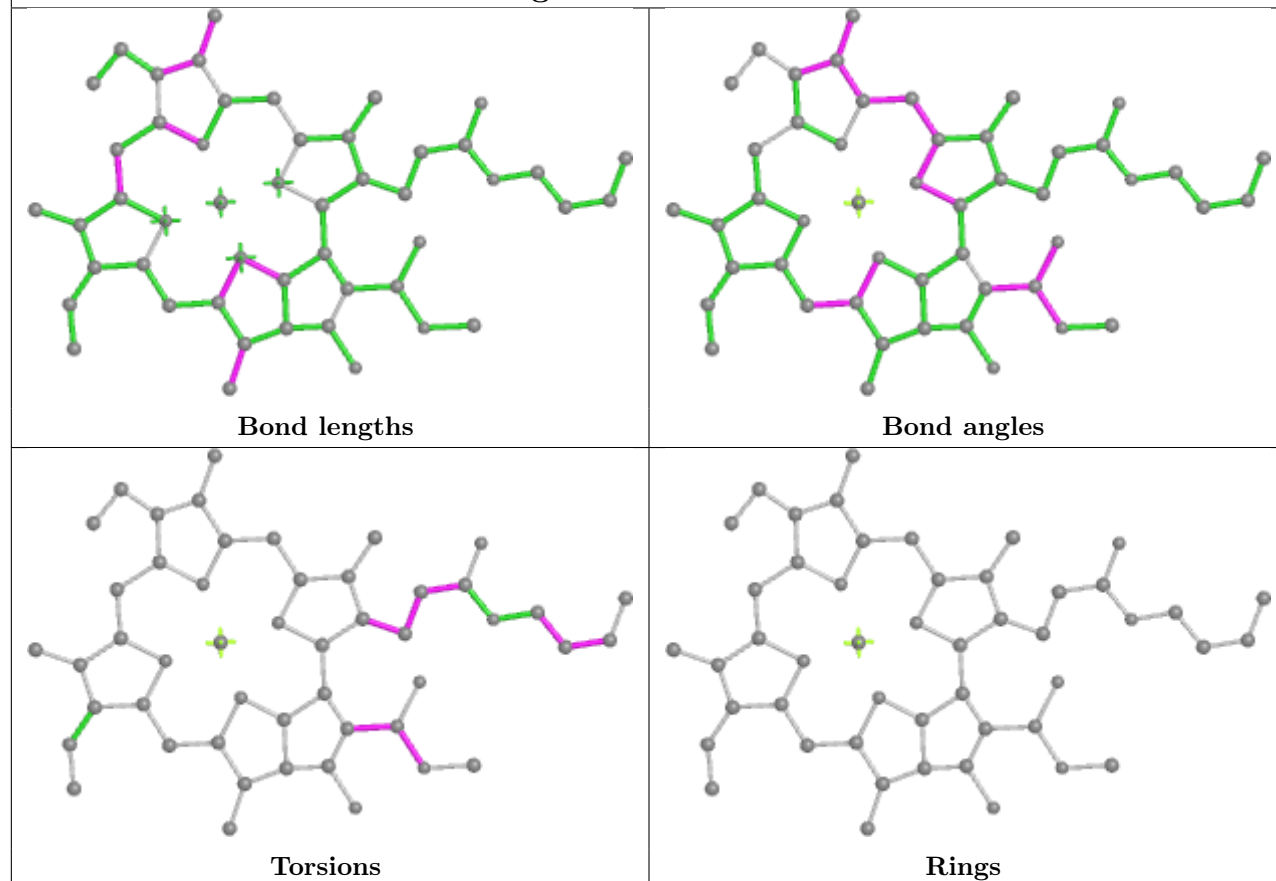




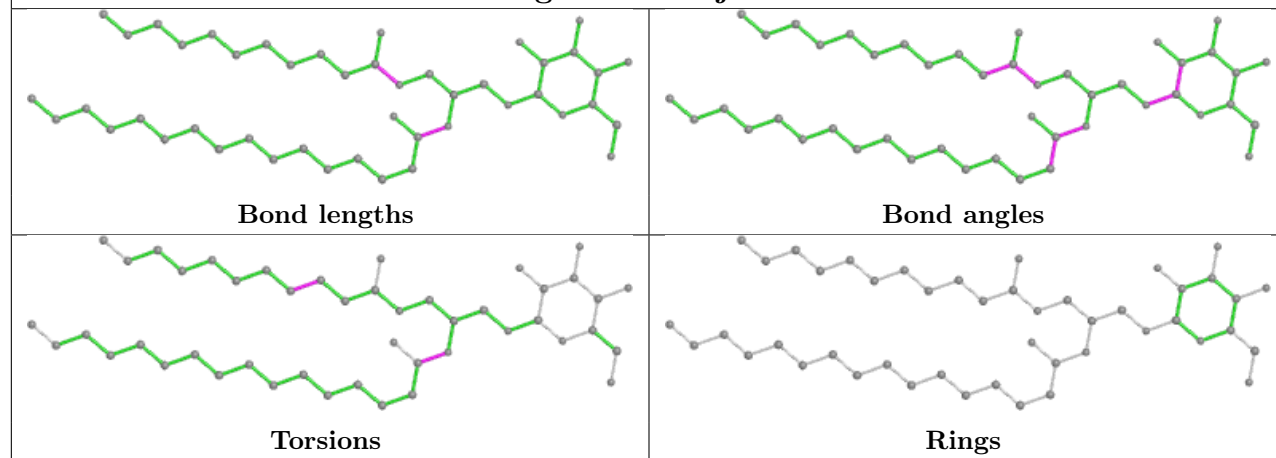




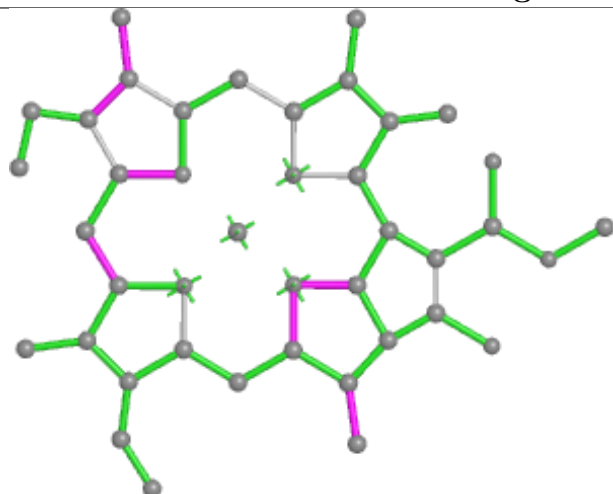
Ligand CLA Y 604



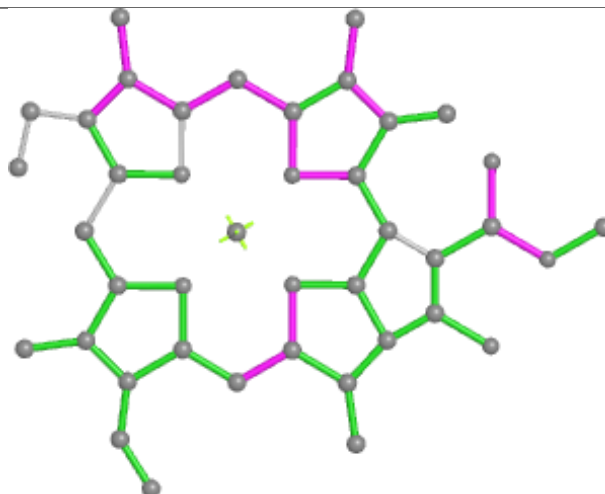
Ligand LMG j 101



Ligand CLA X 201



Bond lengths



Bond angles

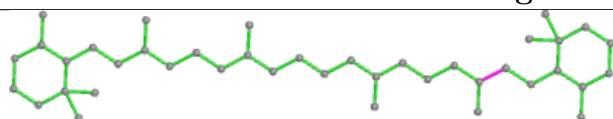


Torsions

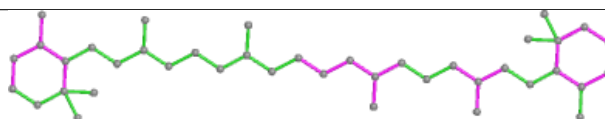


Rings

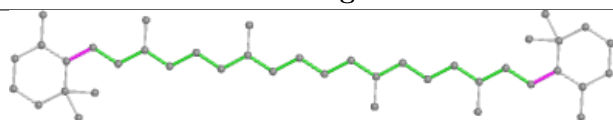
Ligand BCR b 618



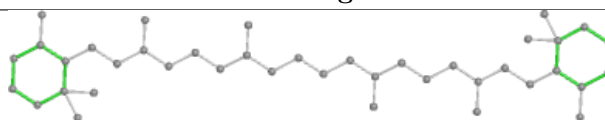
Bond lengths



Bond angles

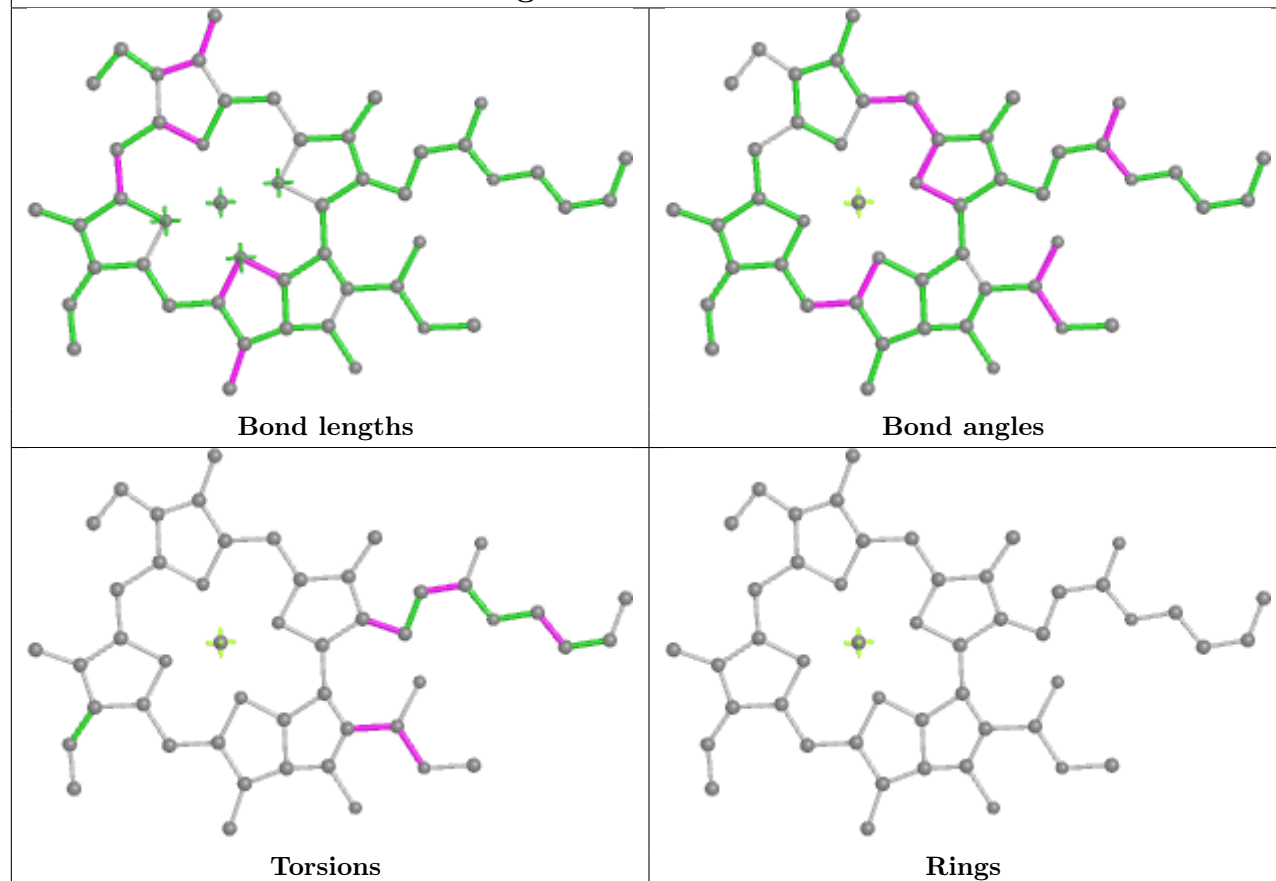


Torsions

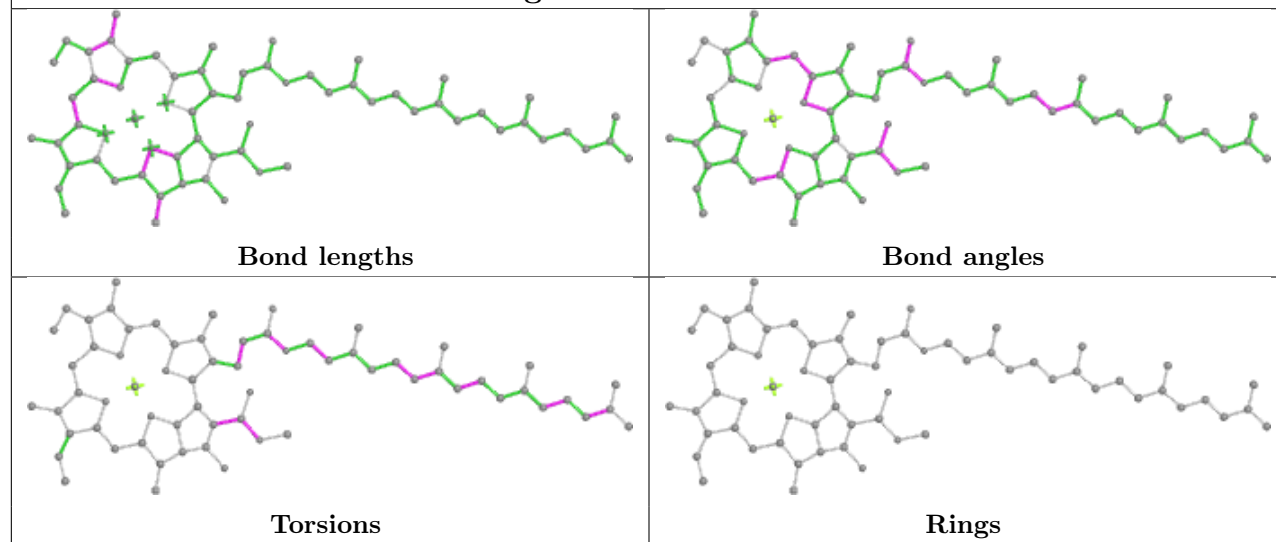


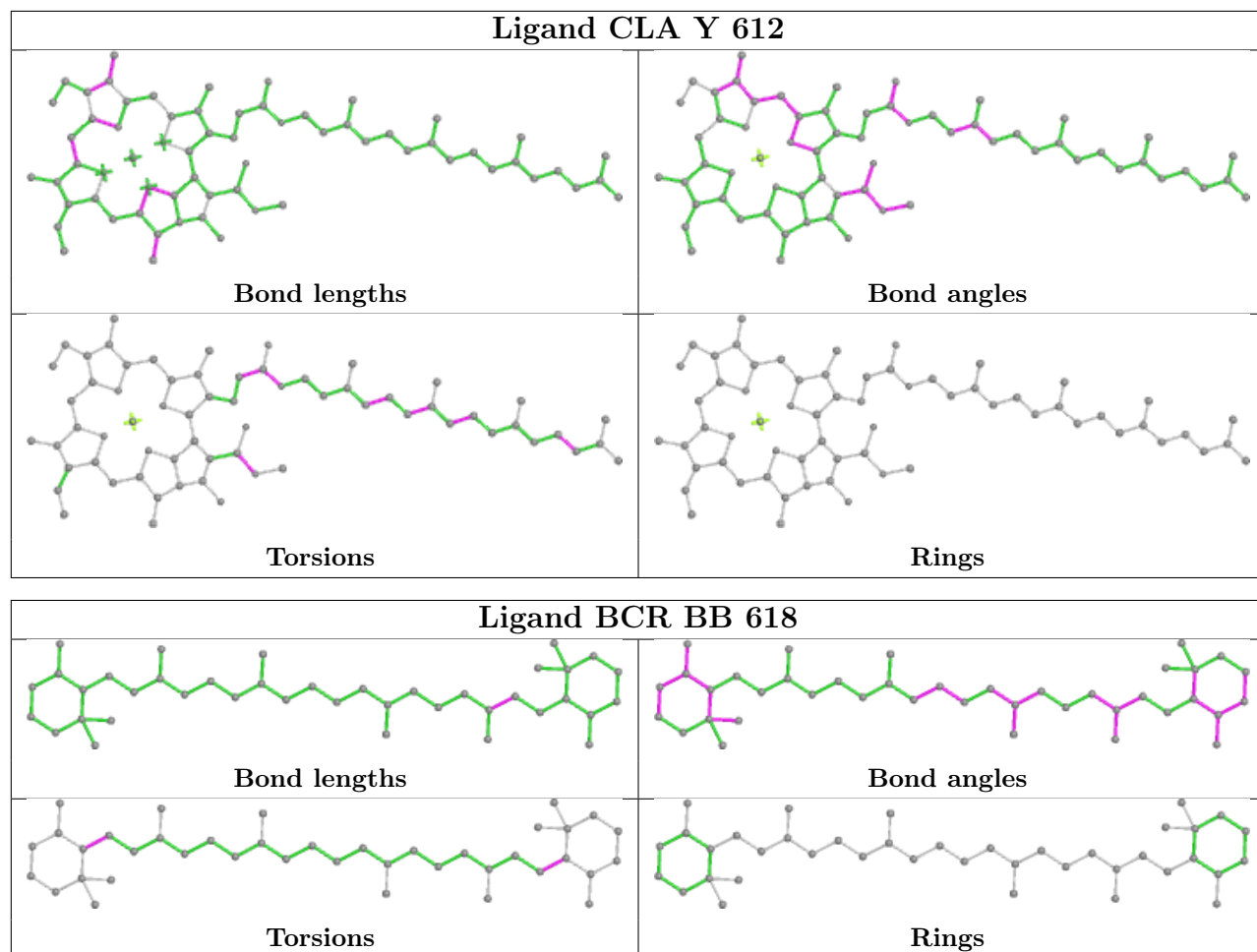
Rings

Ligand CLA GG 602

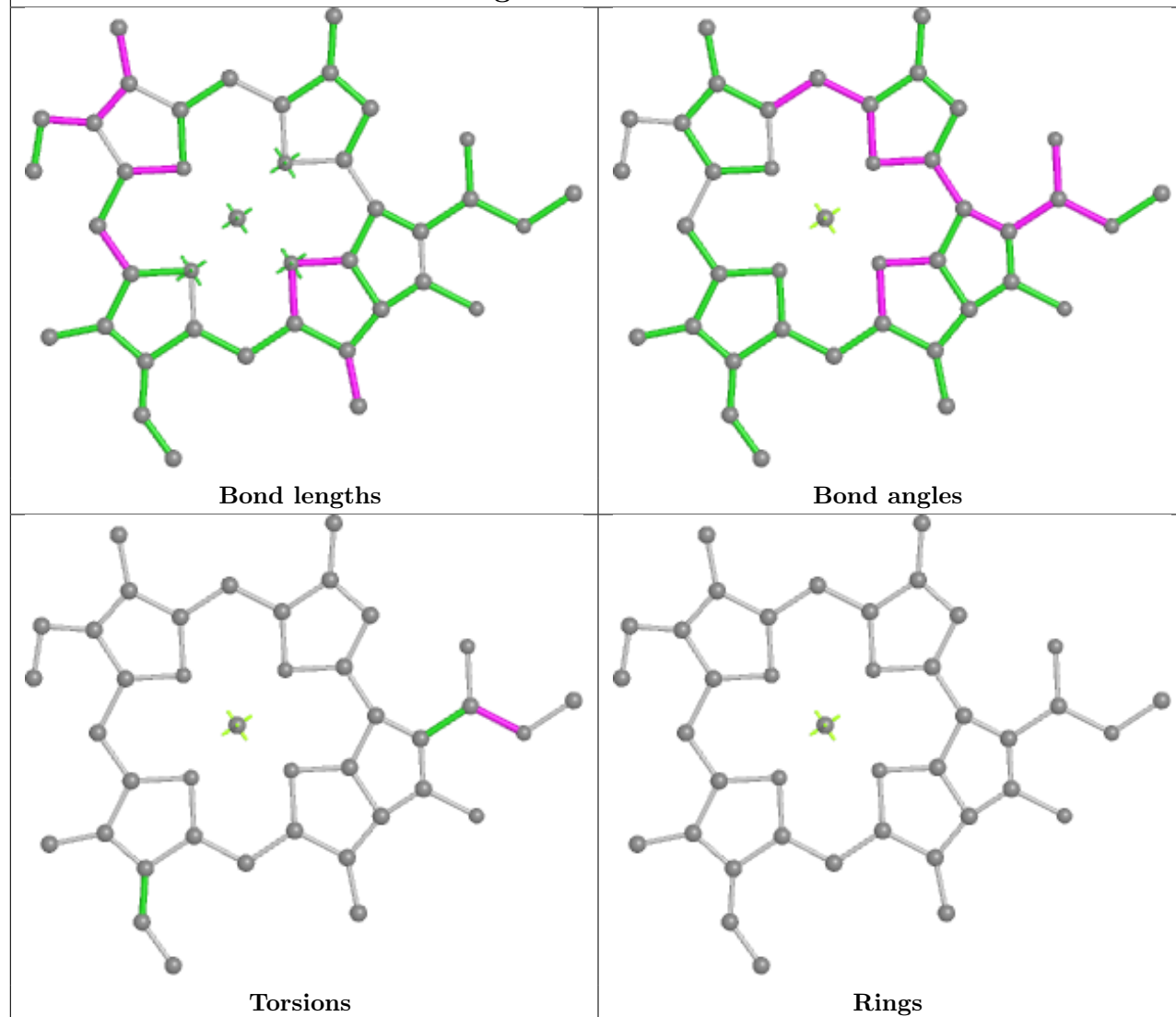


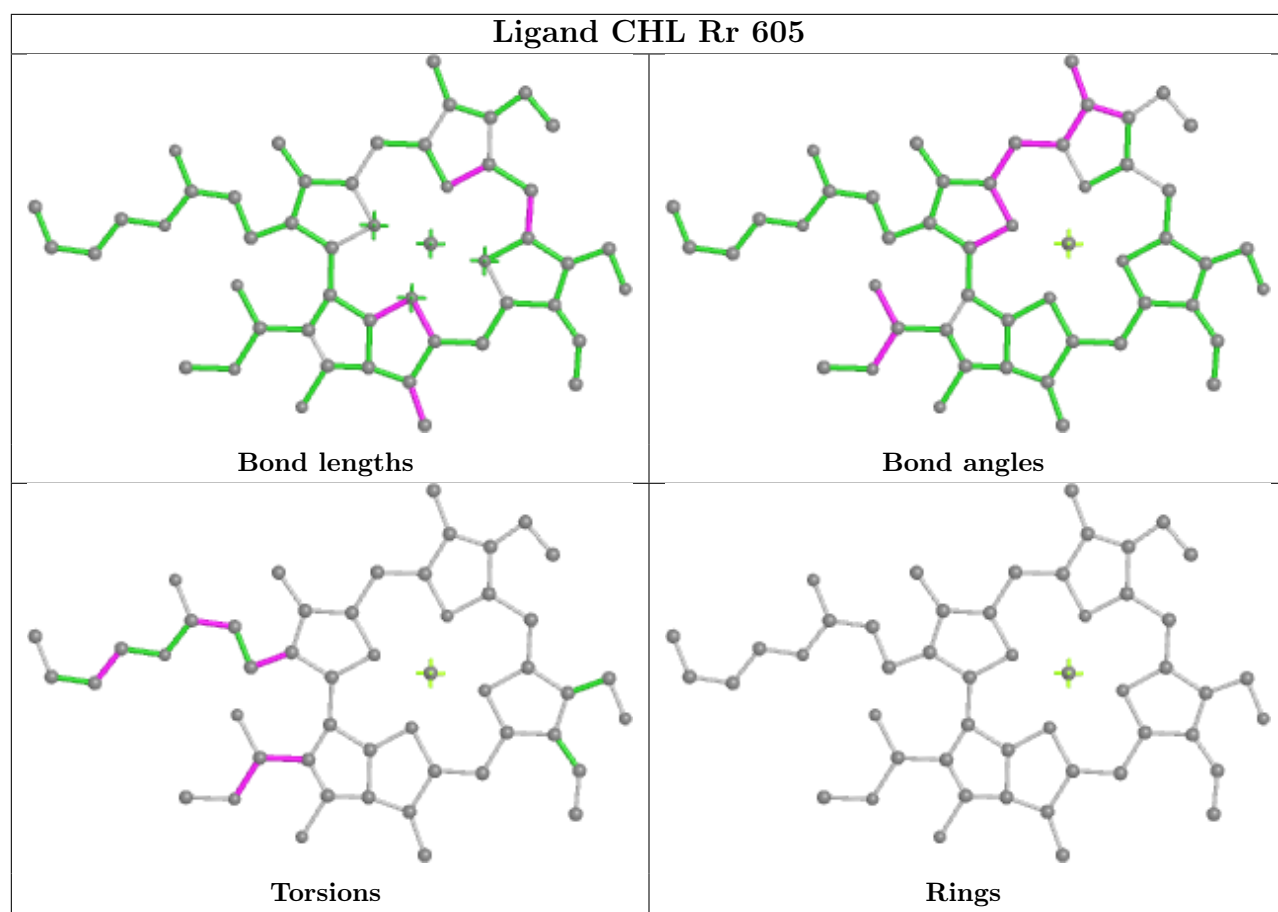
Ligand CLA Cc 503

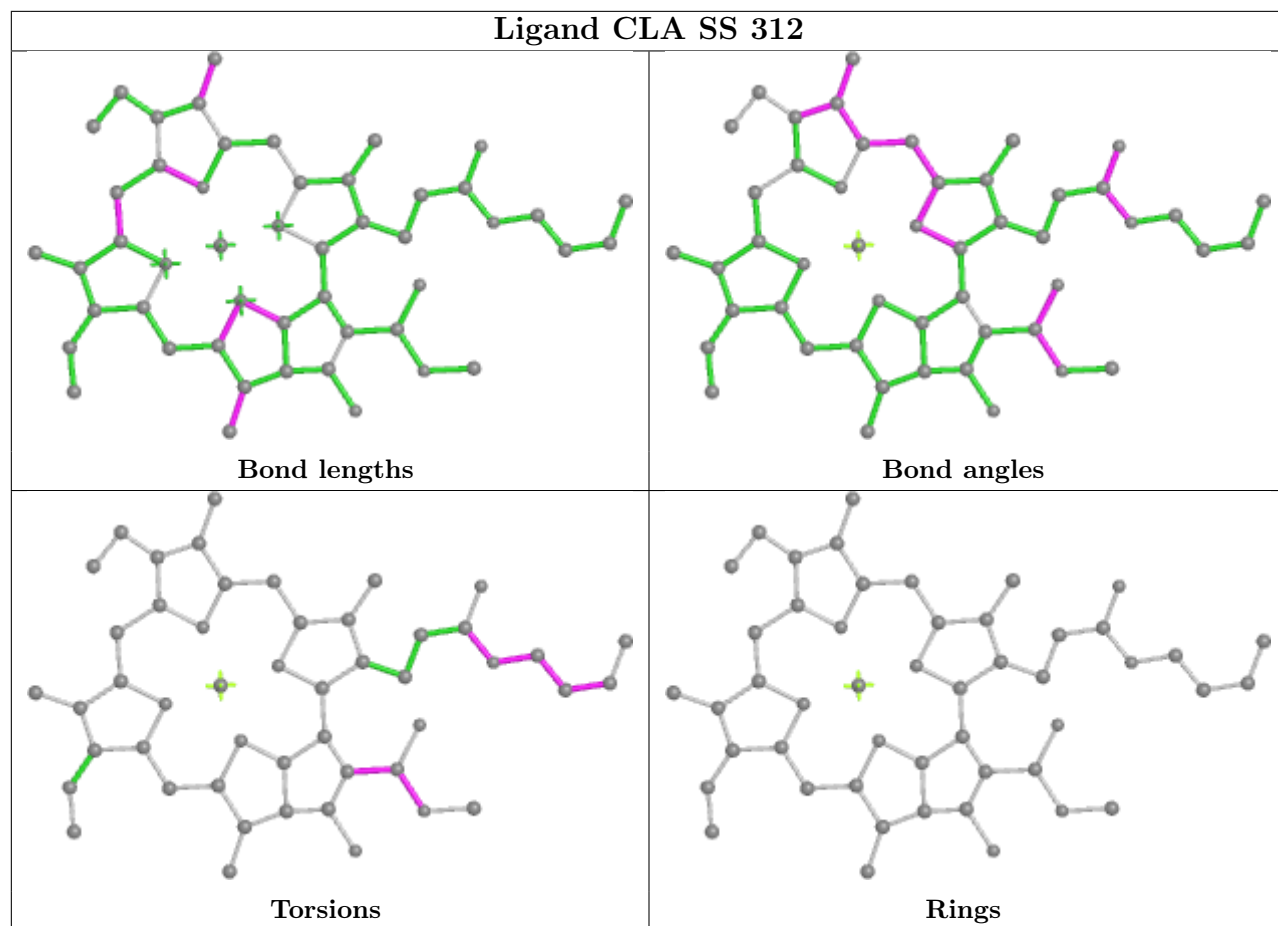


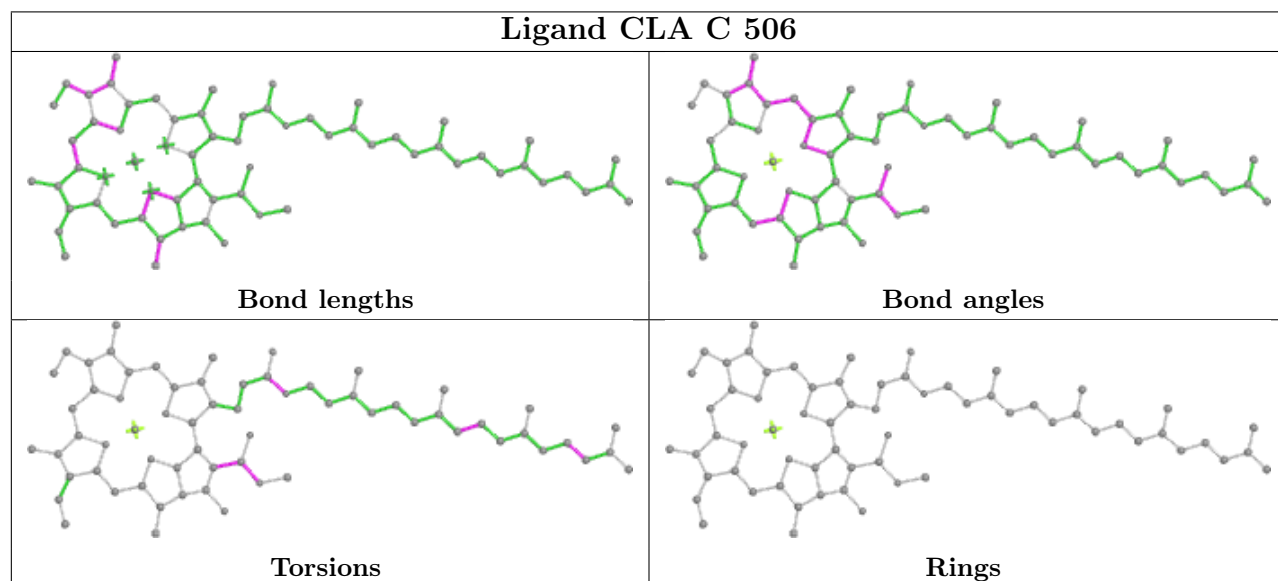
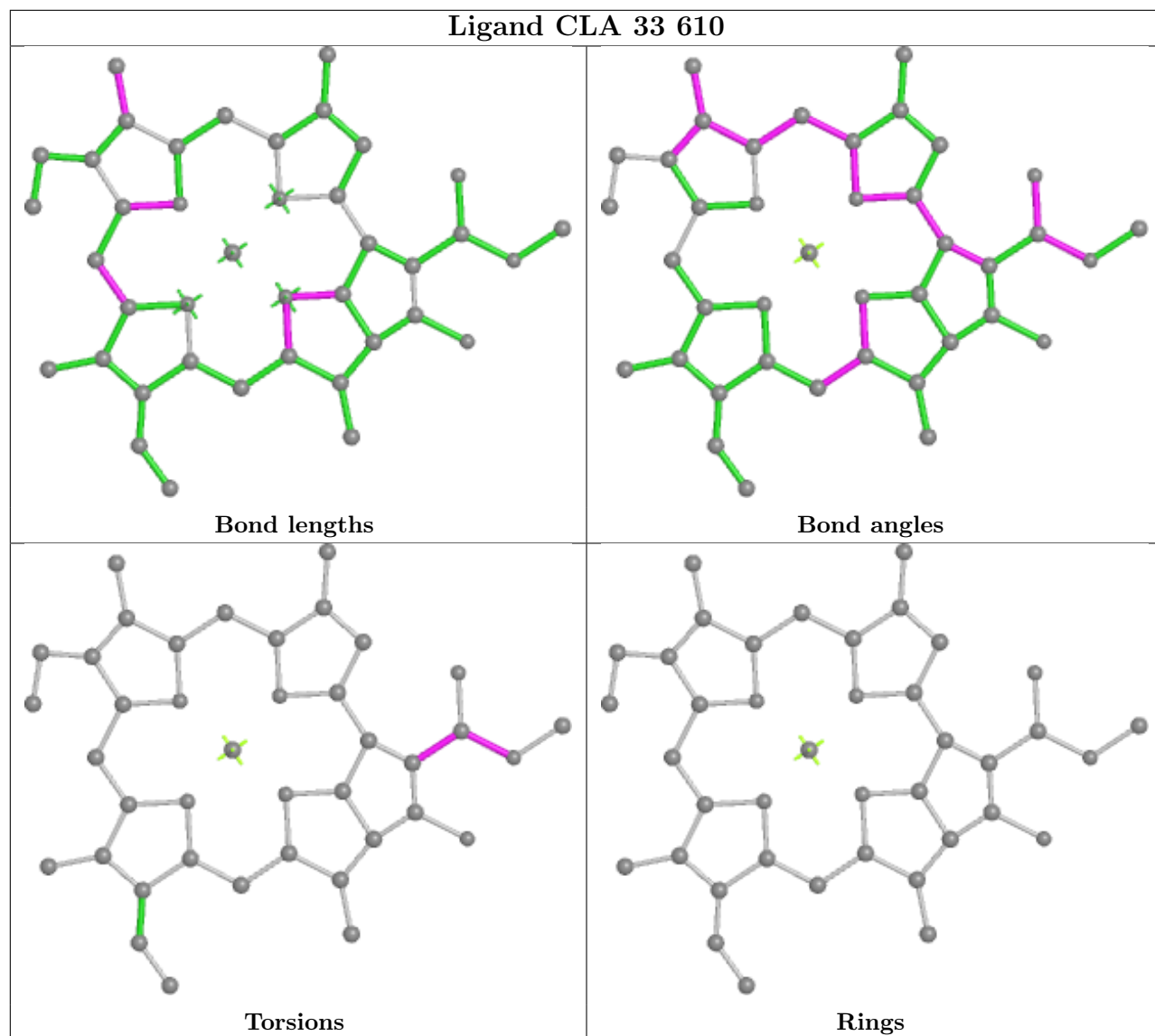


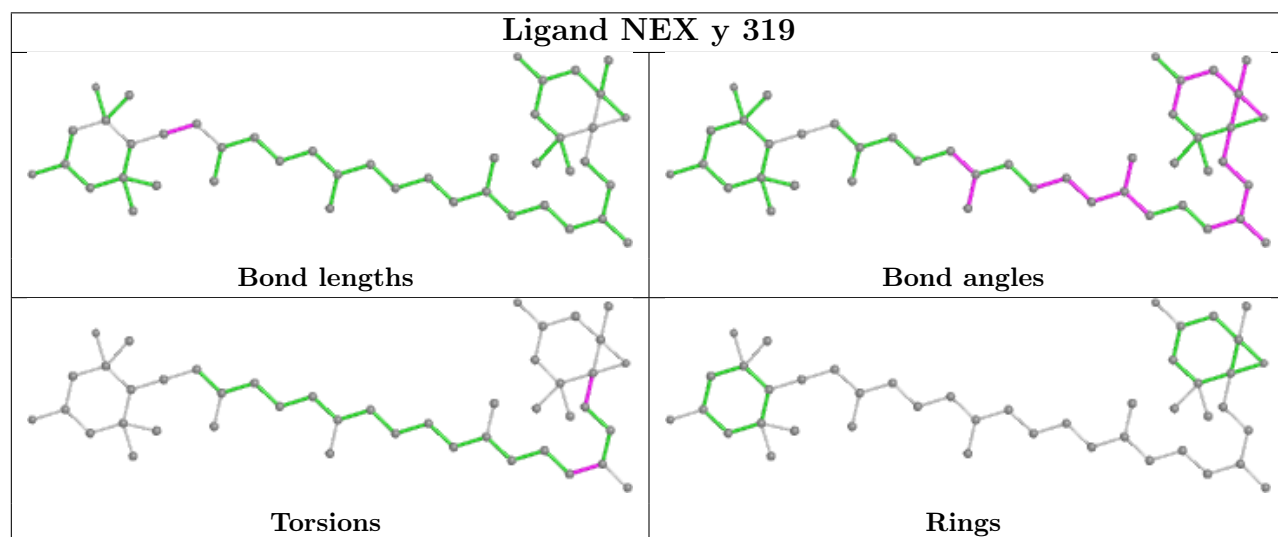
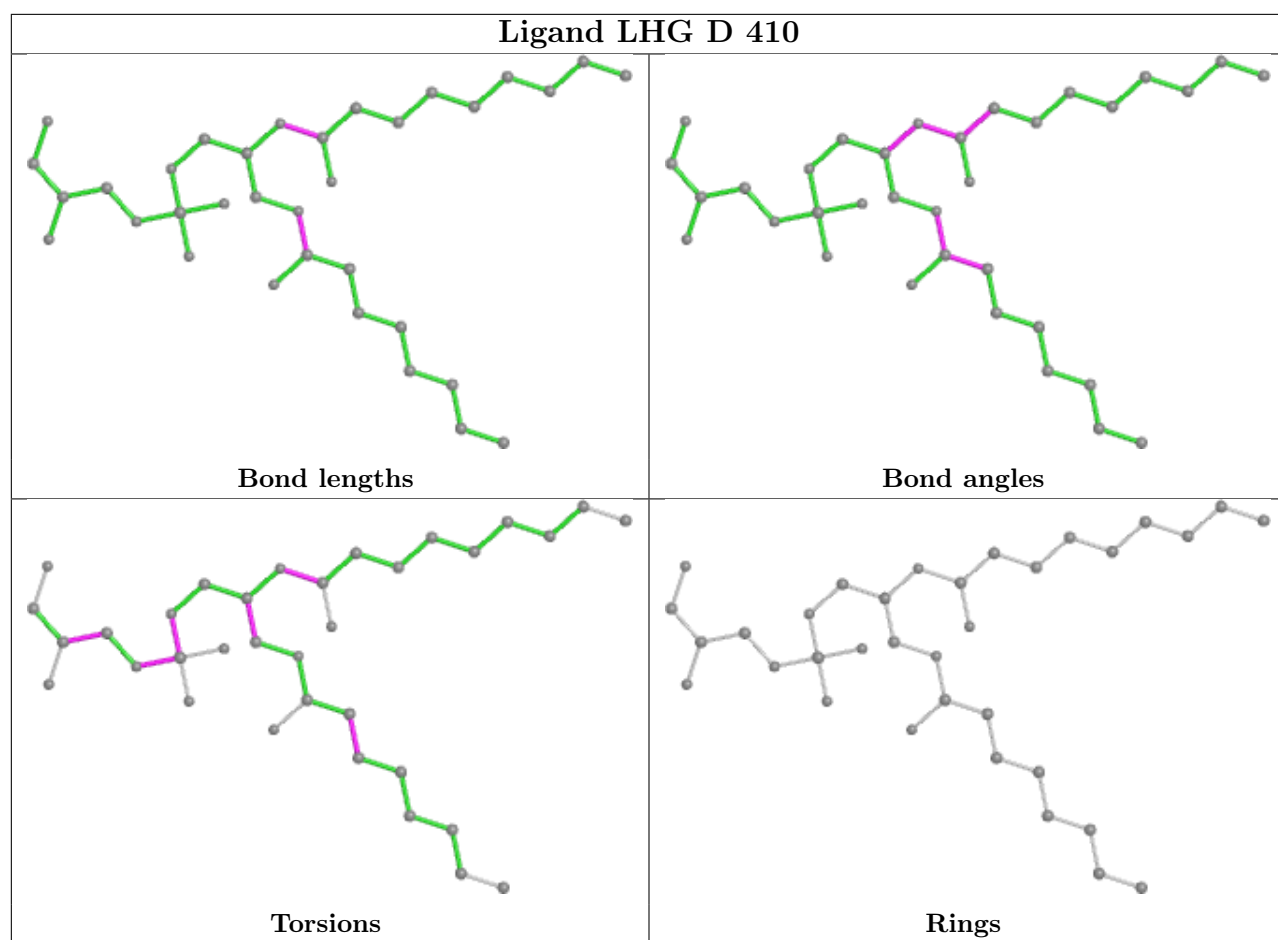
Ligand CLA 1 609

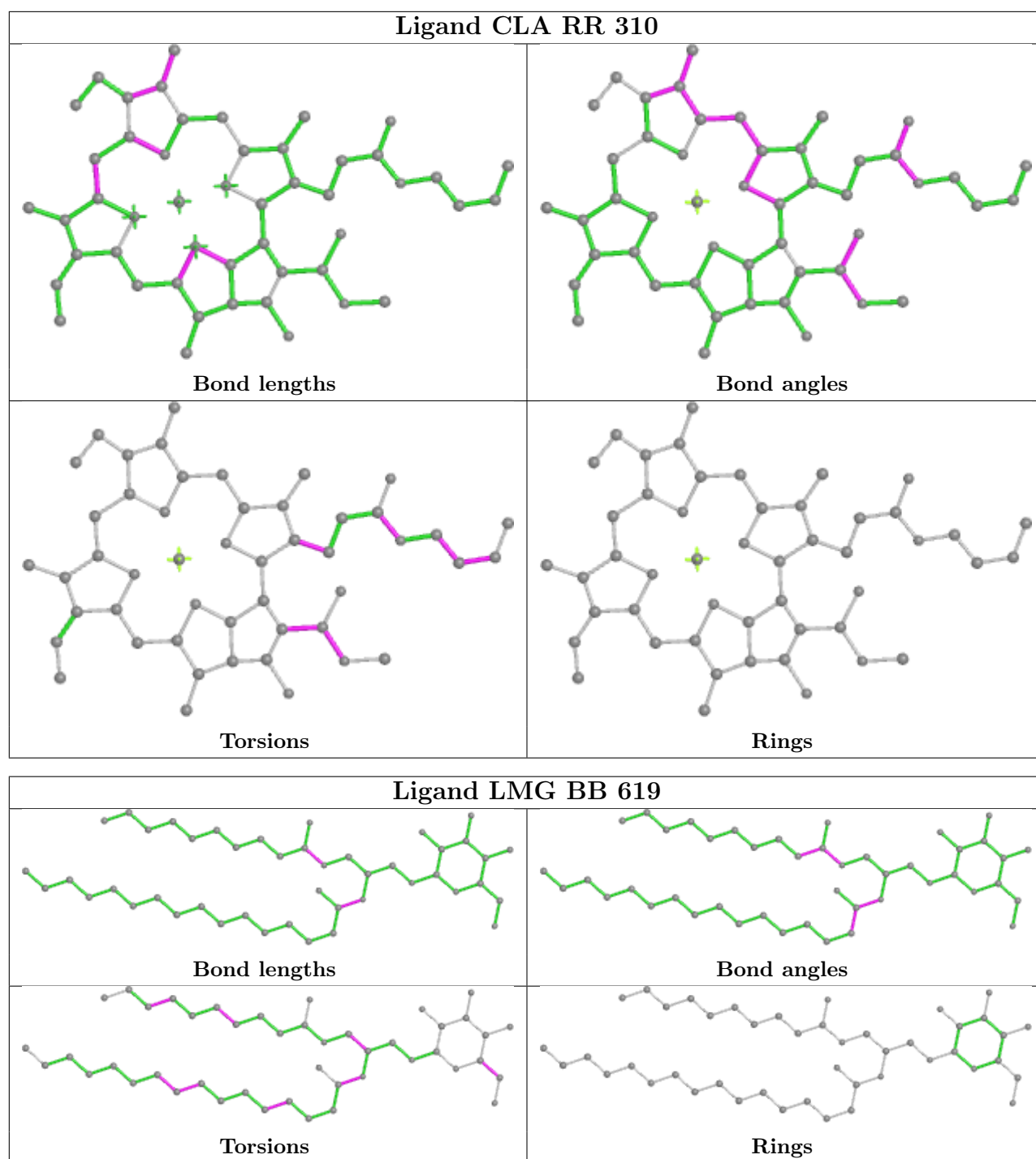


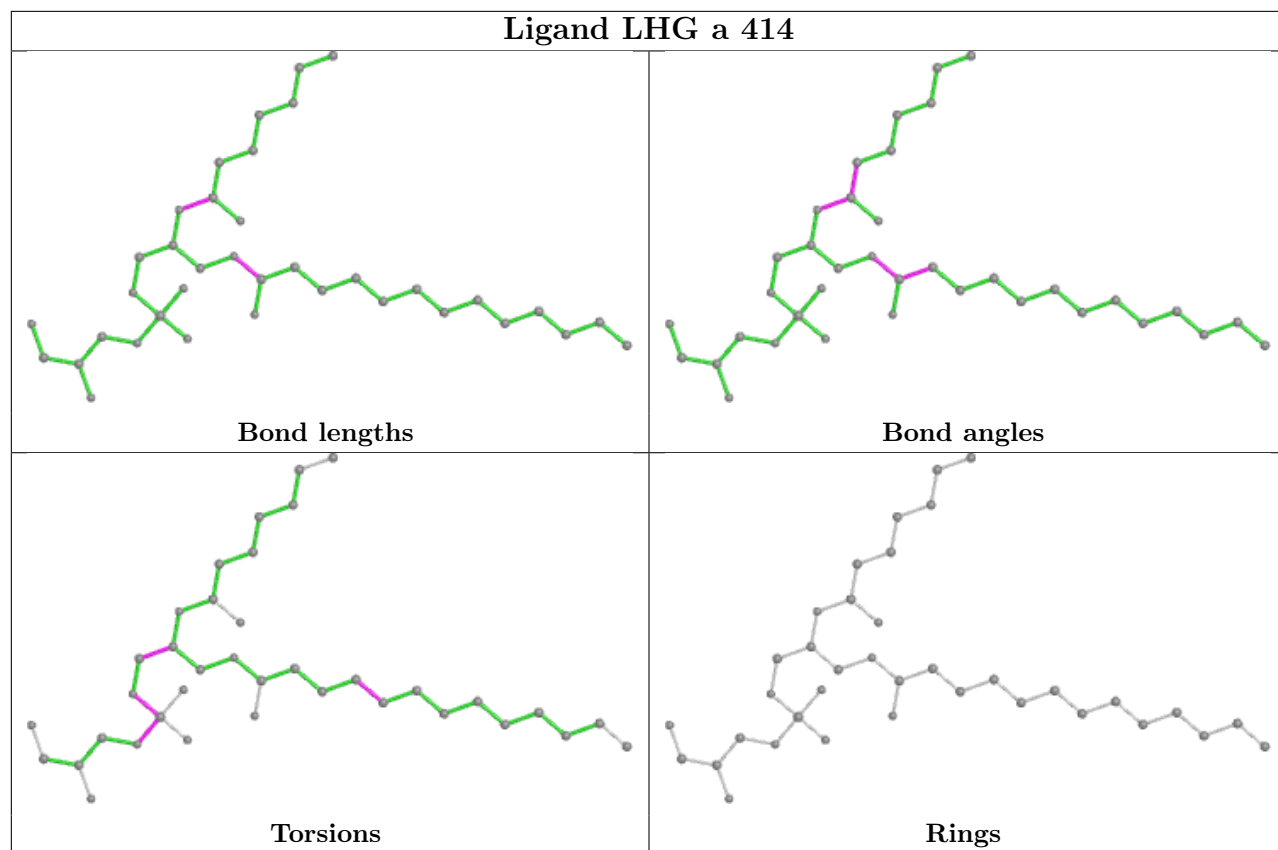




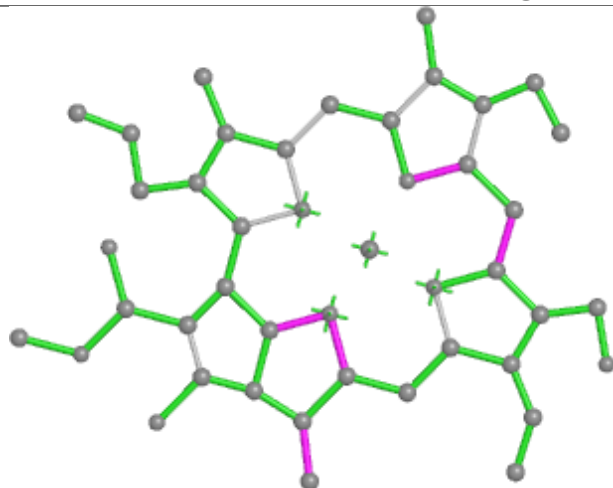




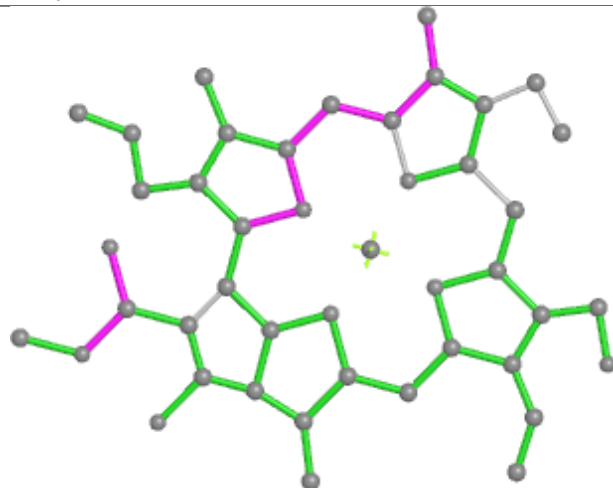




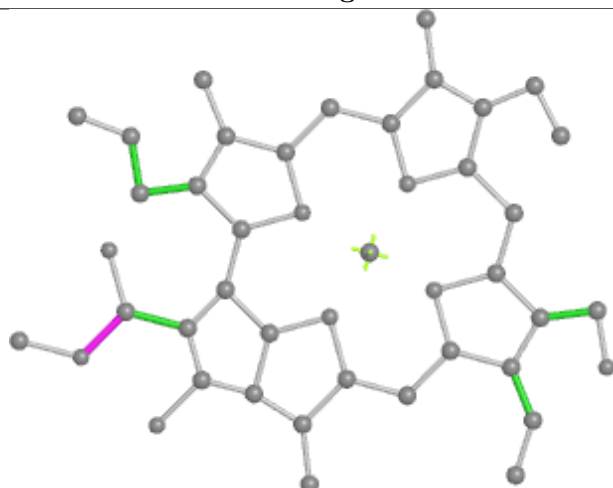
Ligand CHL y 308



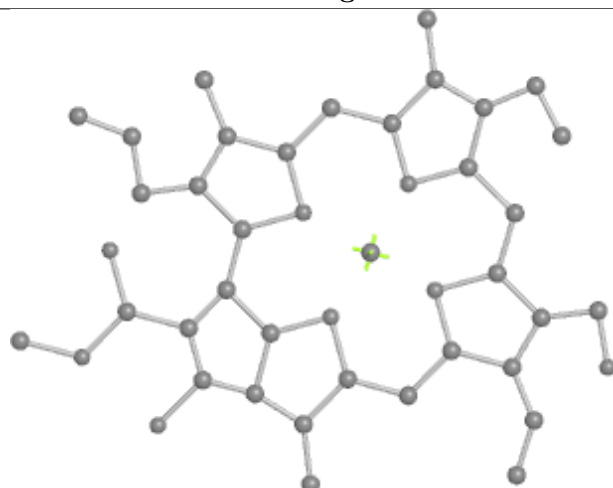
Bond lengths



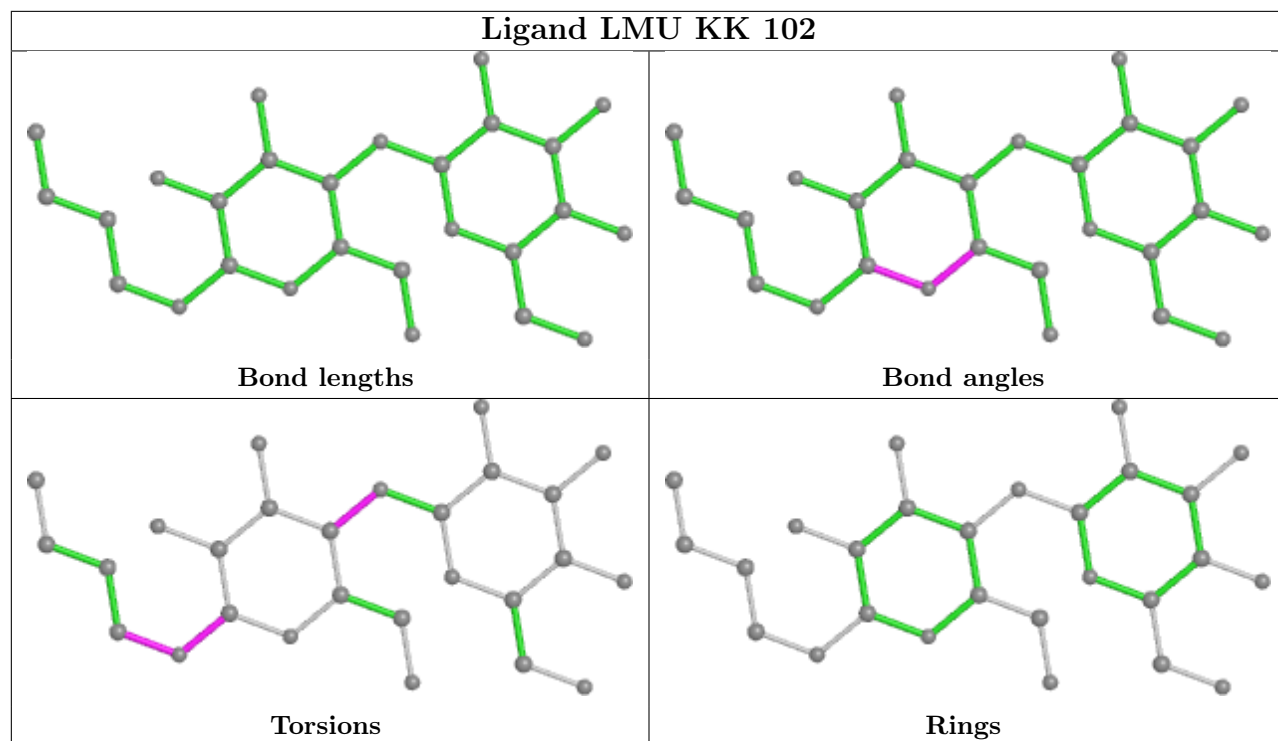
Bond angles

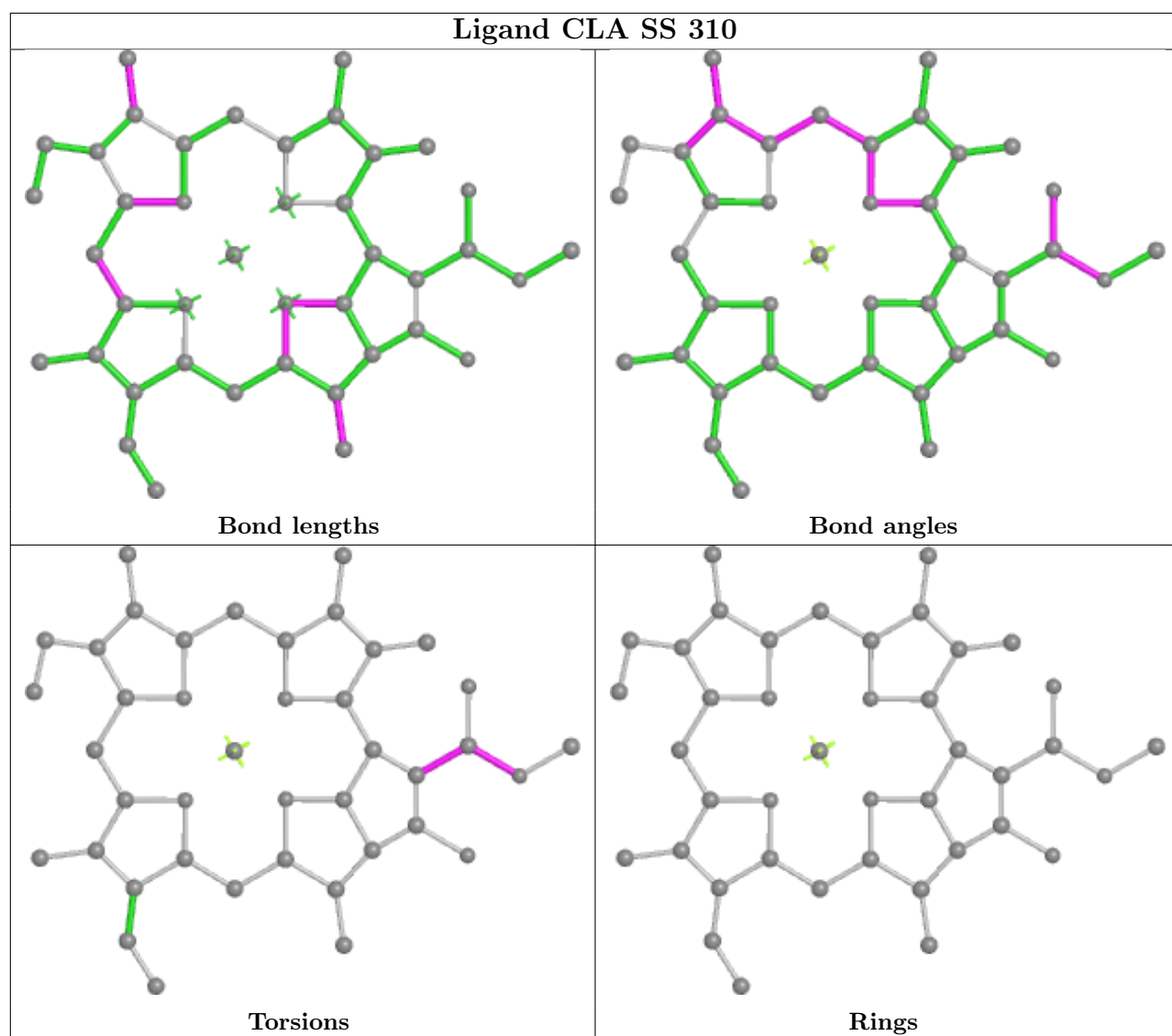


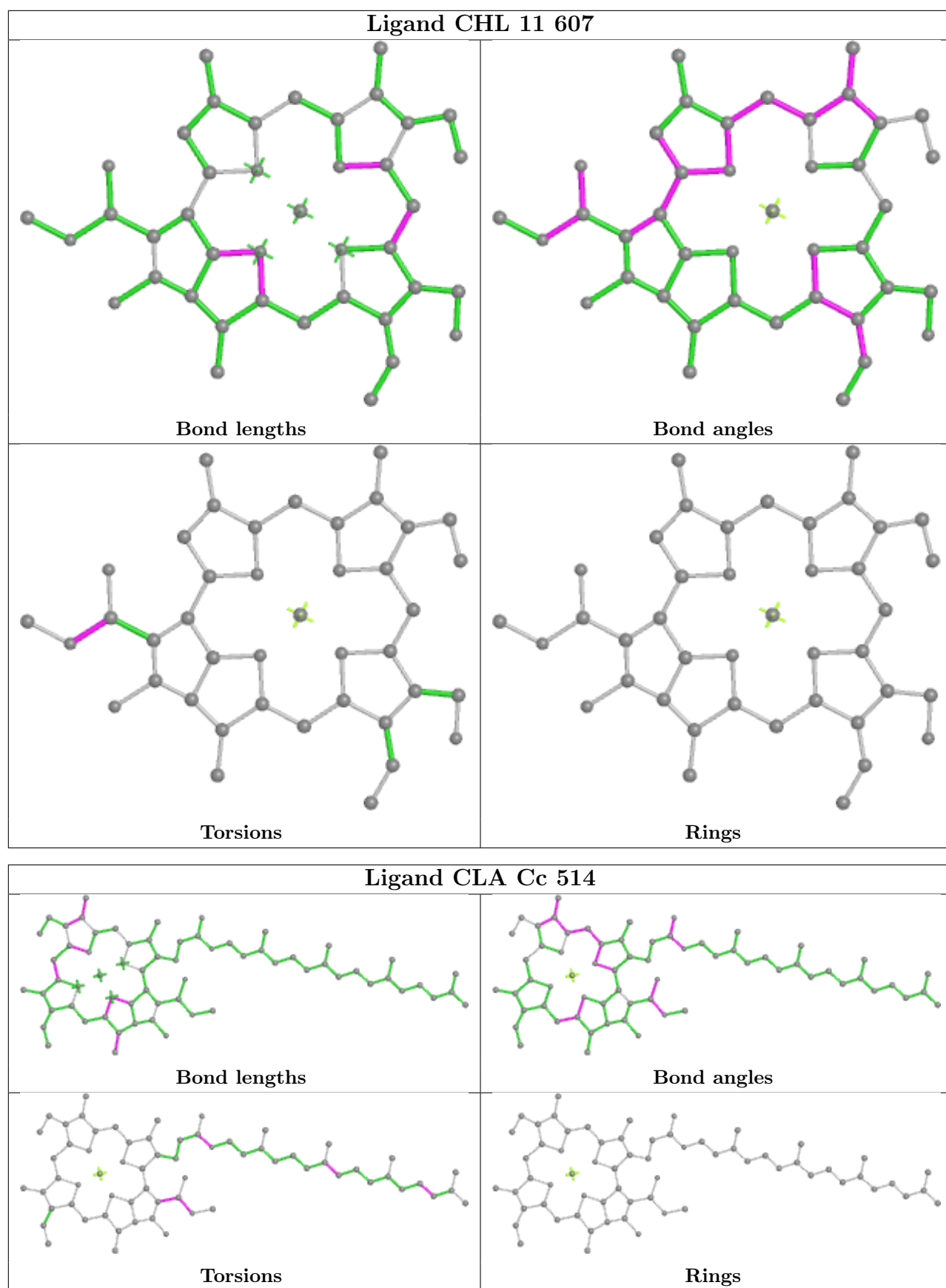
Torsions

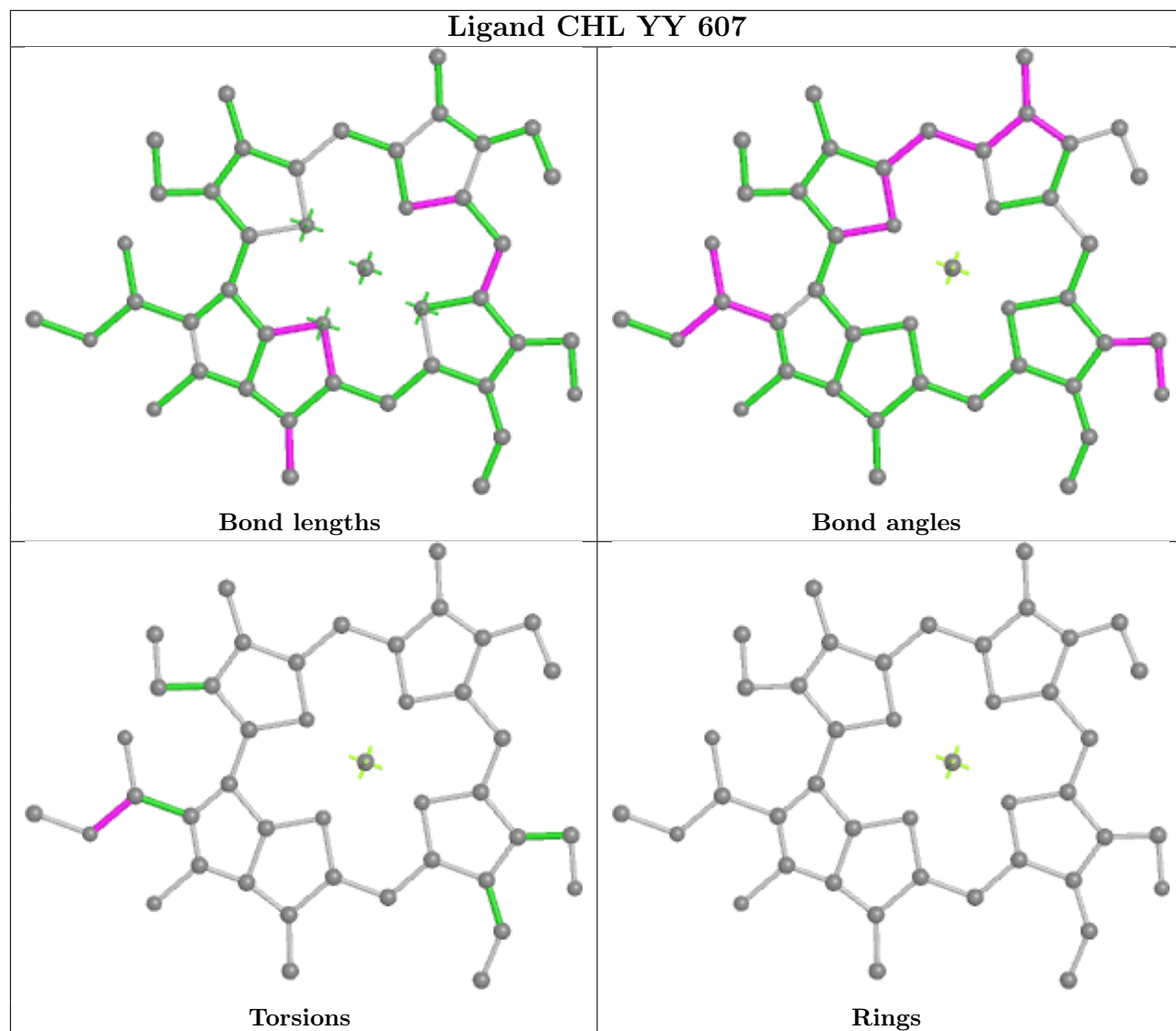
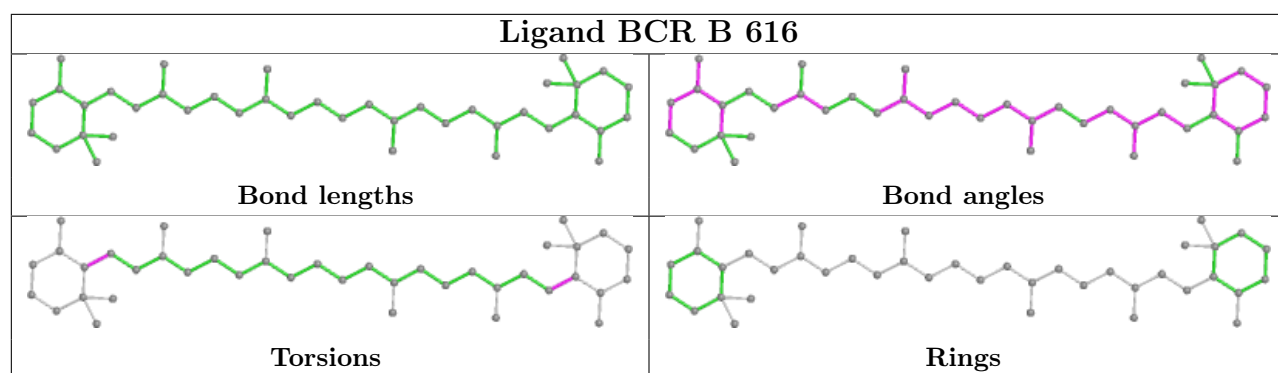


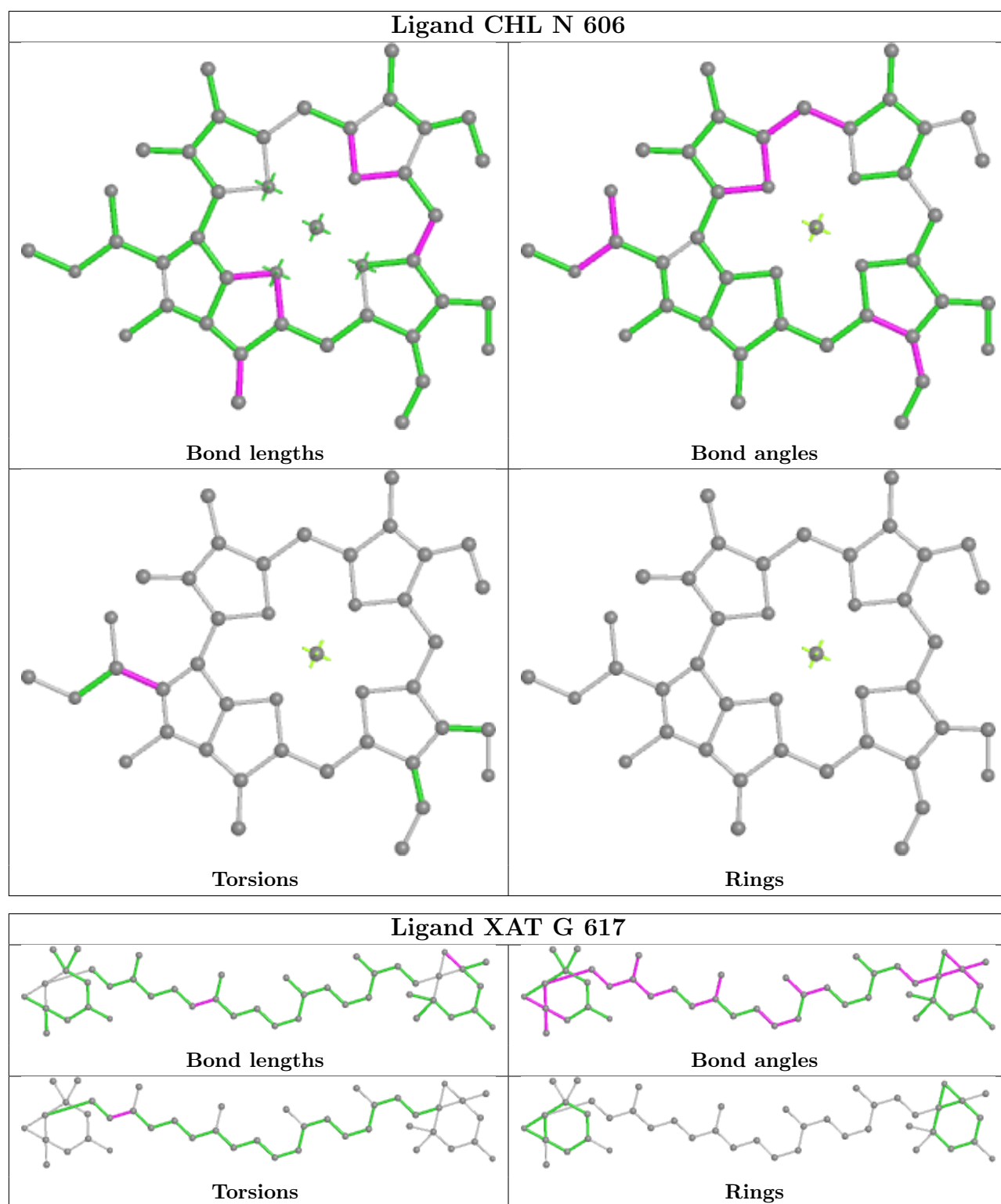
Rings



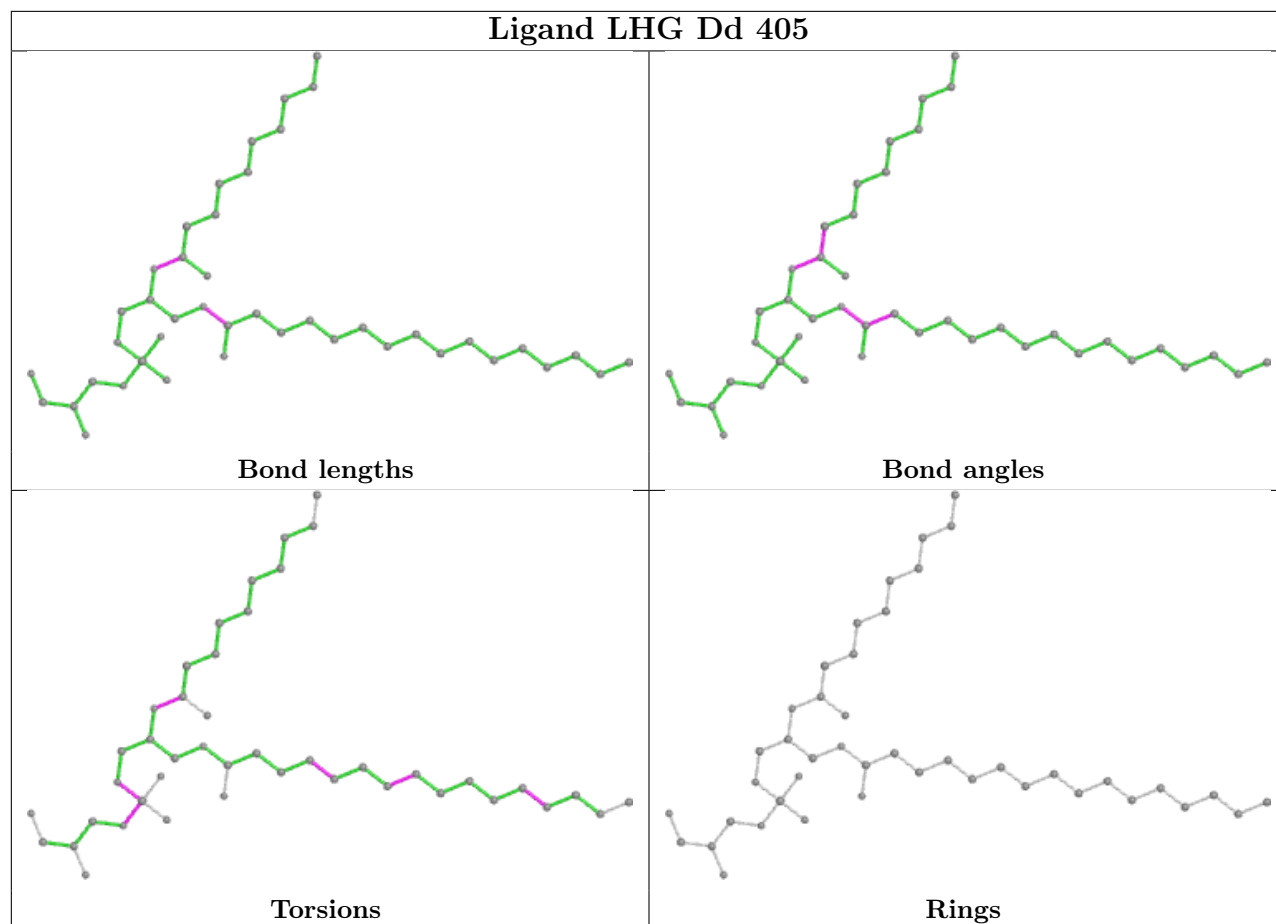




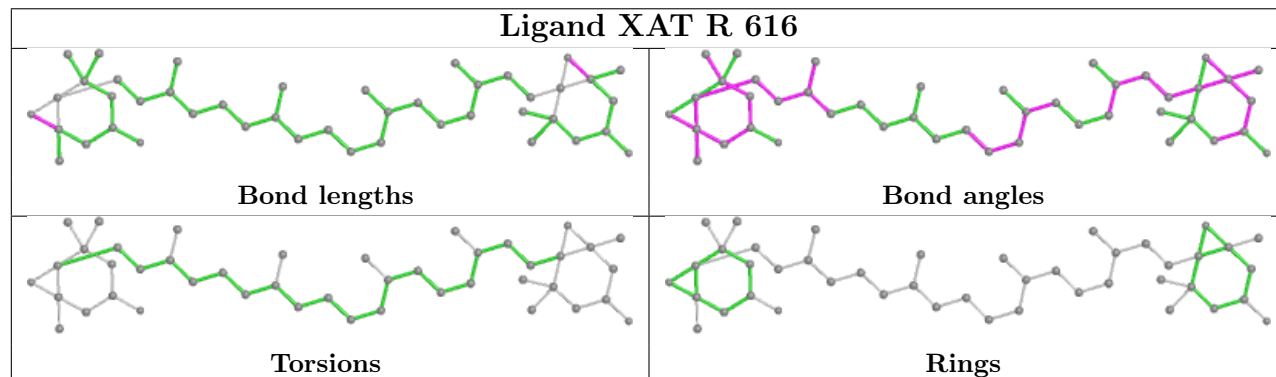


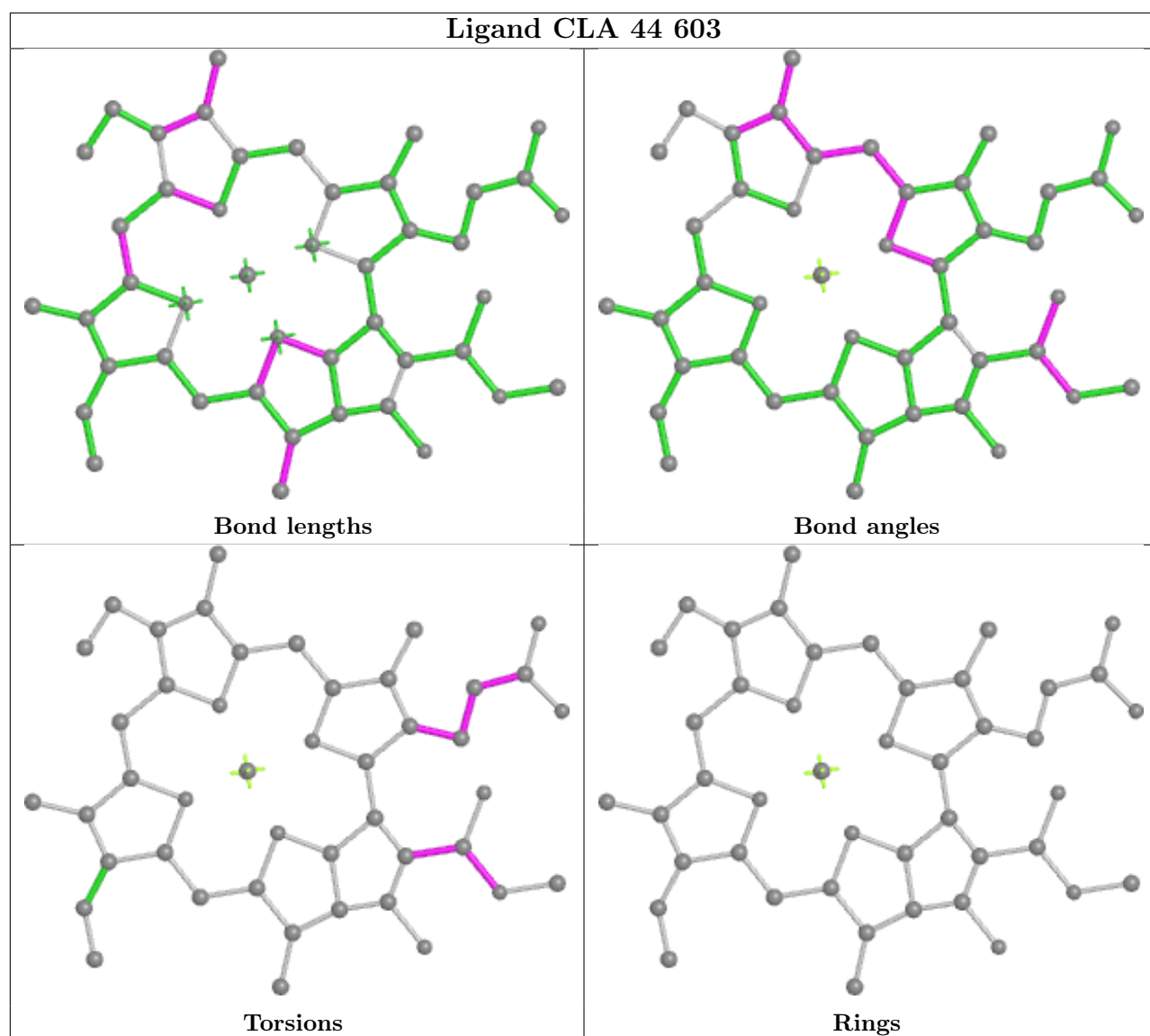


Ligand LHG Dd 405

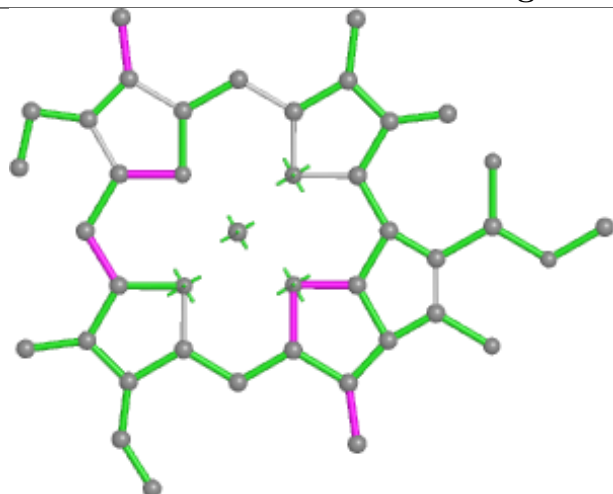


Ligand XAT R 616

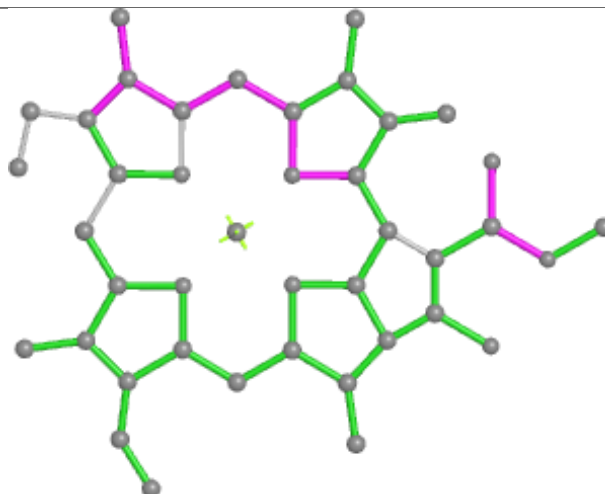




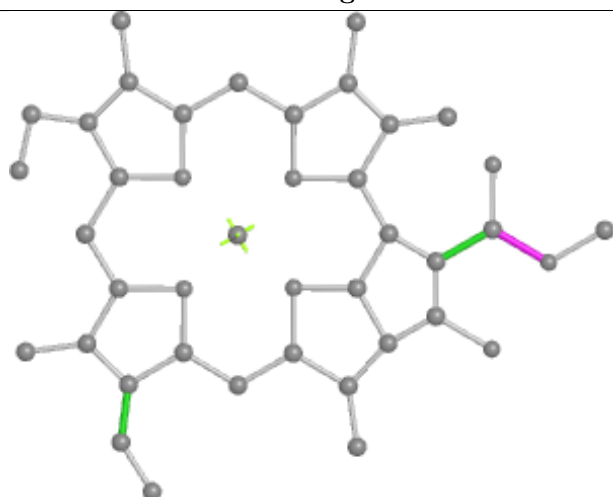
Ligand CLA S 609



Bond lengths



Bond angles

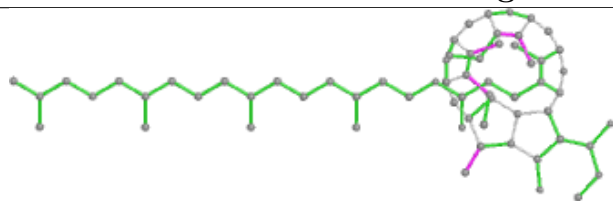


Torsions

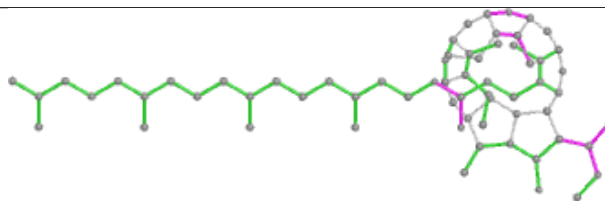


Rings

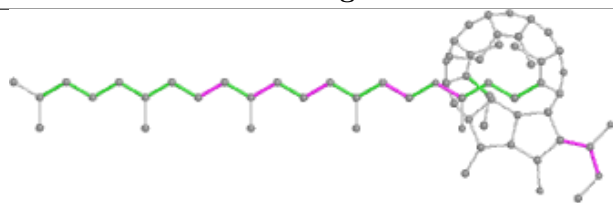
Ligand PHO DD 402



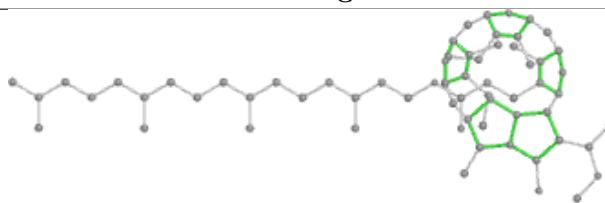
Bond lengths



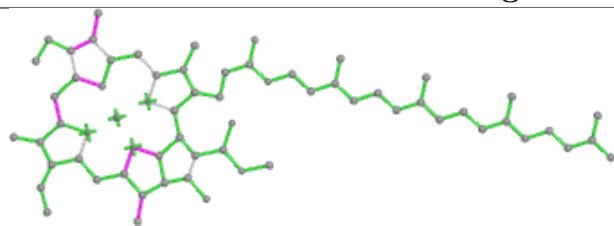
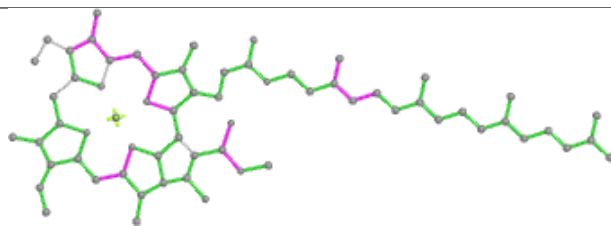
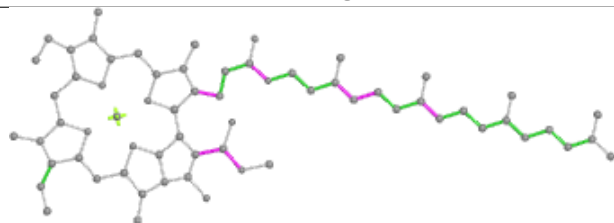
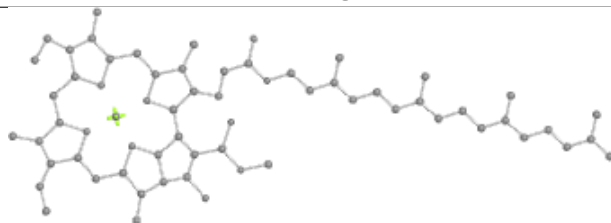
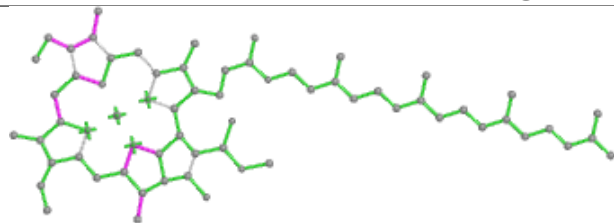
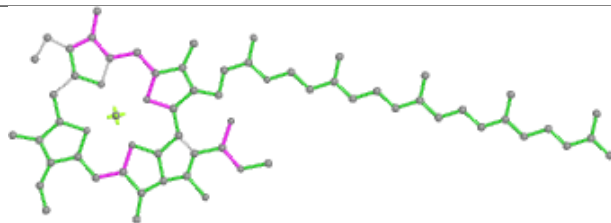
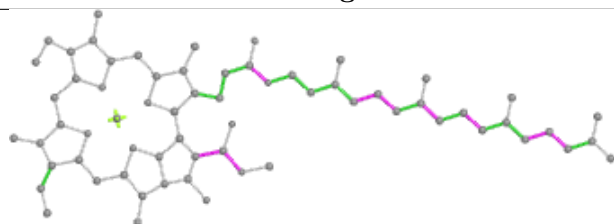
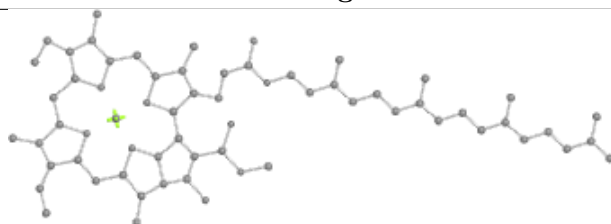
Bond angles



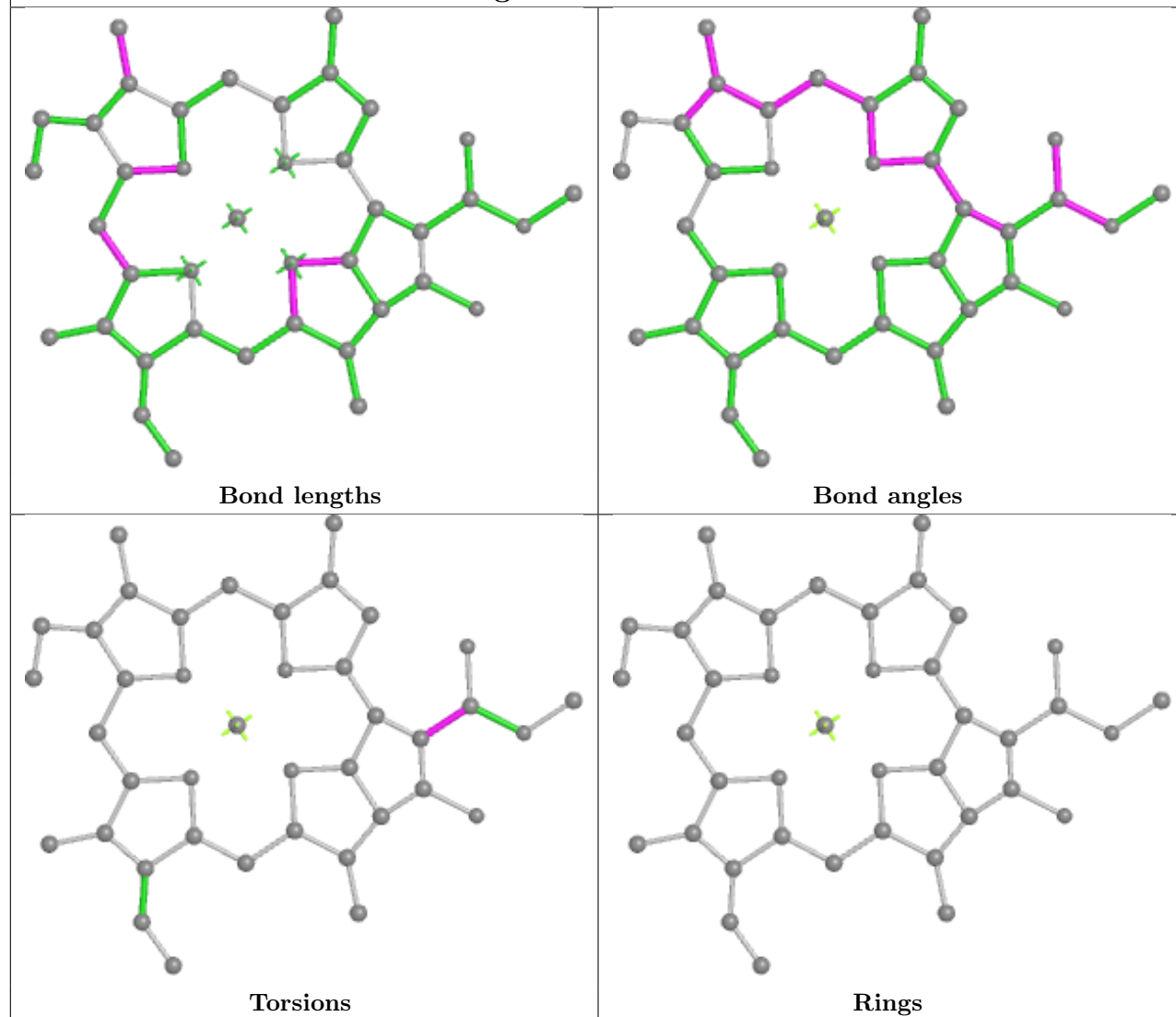
Torsions



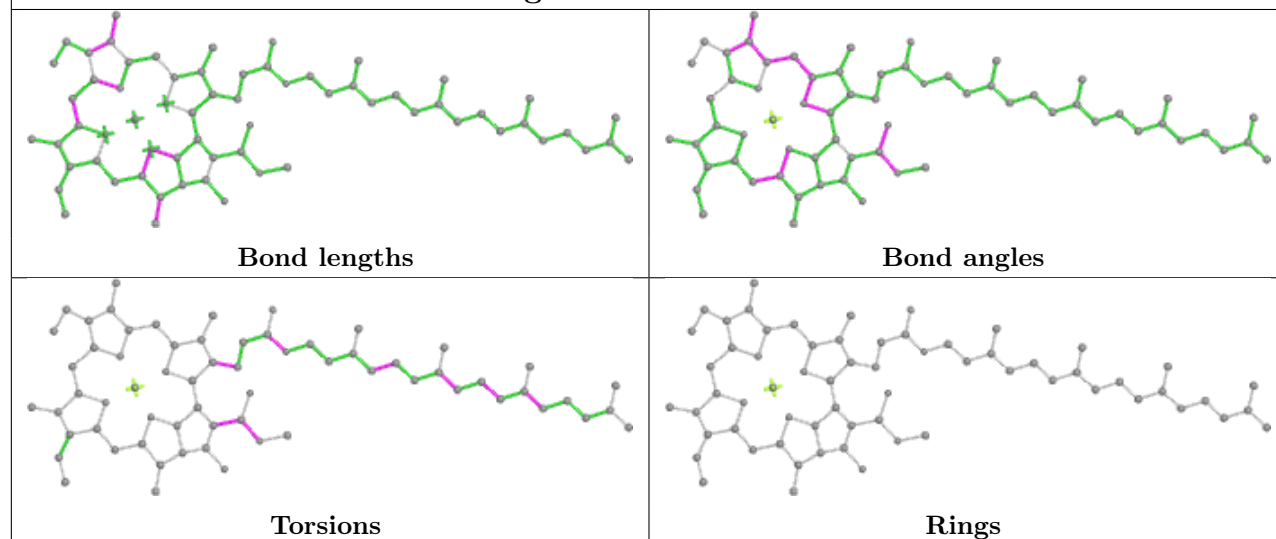
Rings

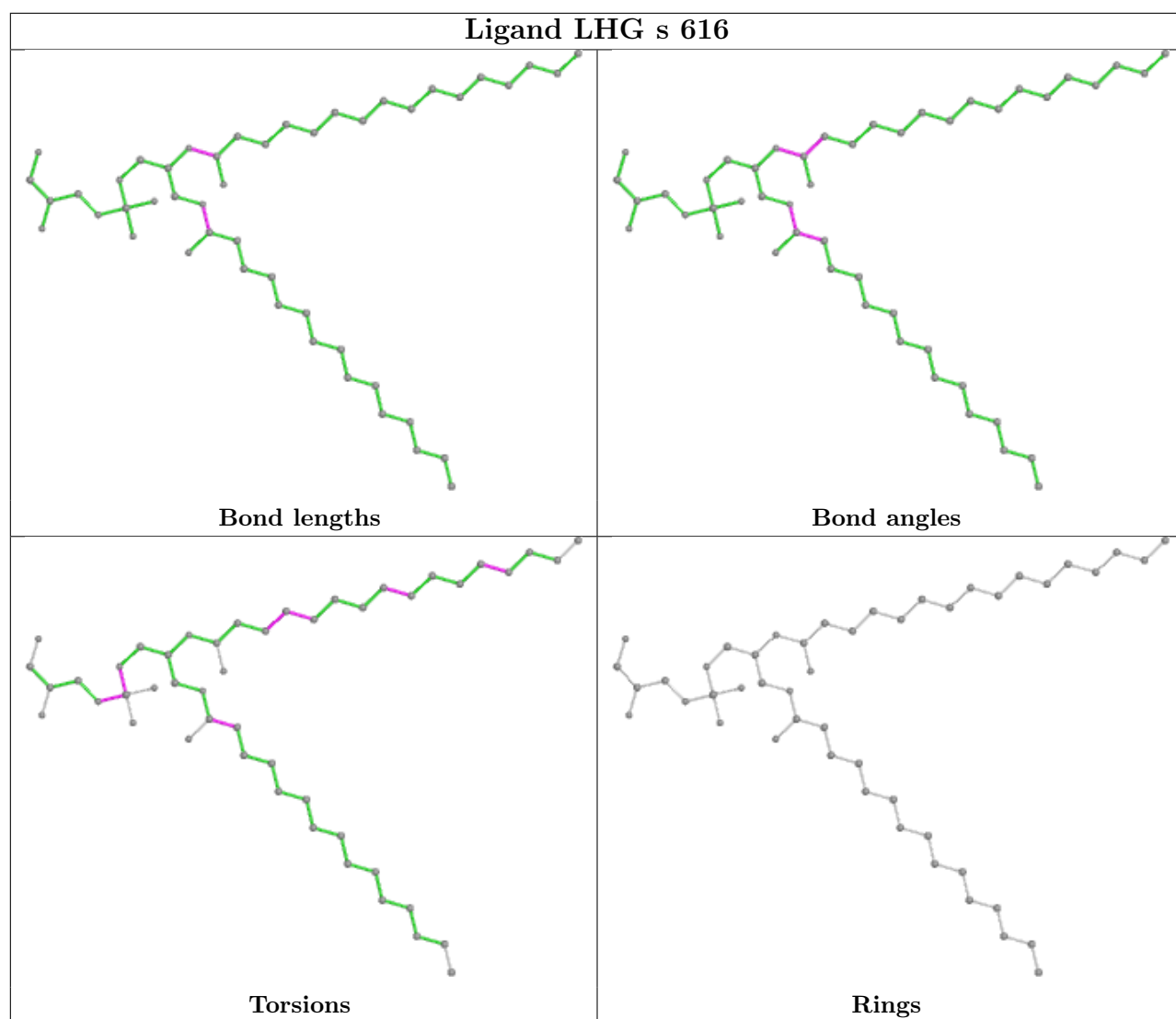
Ligand CLA BB 604**Bond lengths****Bond angles****Torsions****Rings****Ligand CLA b 615****Bond lengths****Bond angles****Torsions****Rings**

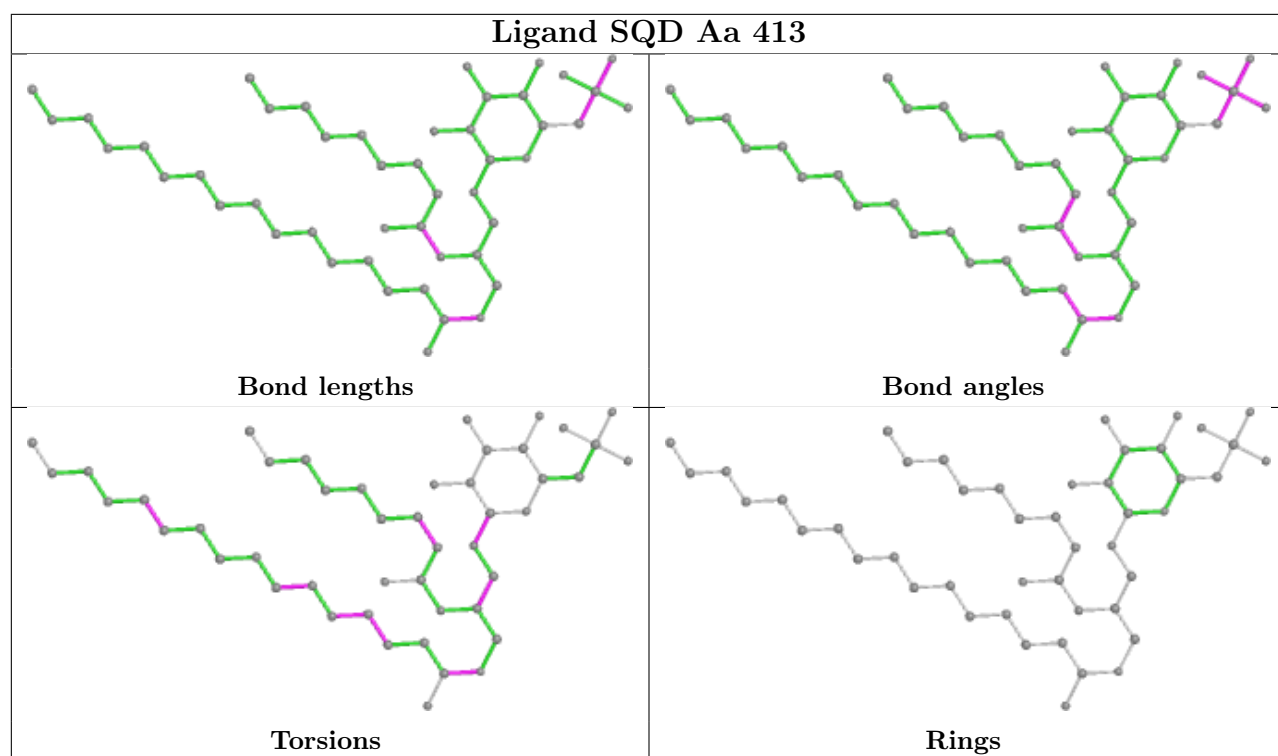
Ligand CLA 1 612



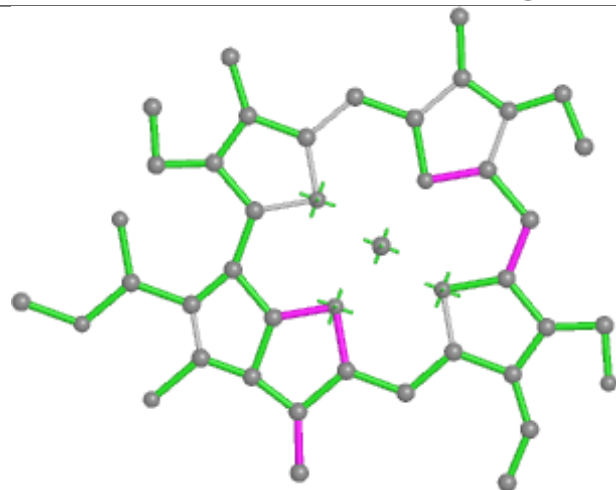
Ligand CLA Cc 505



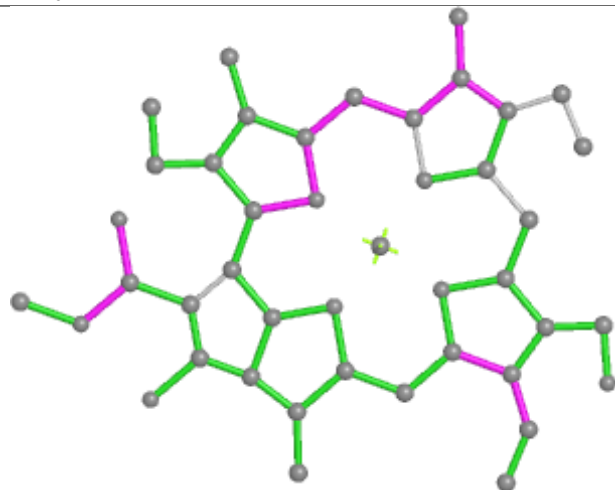




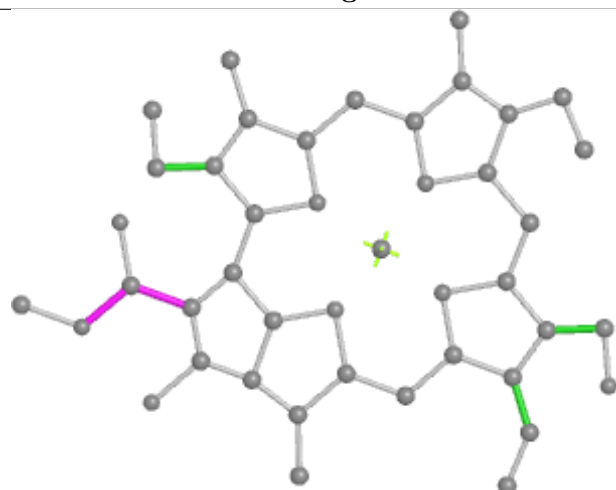
Ligand CHL y 309



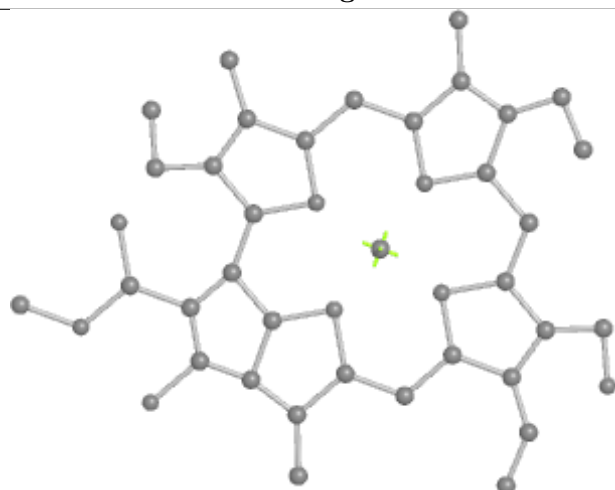
Bond lengths



Bond angles

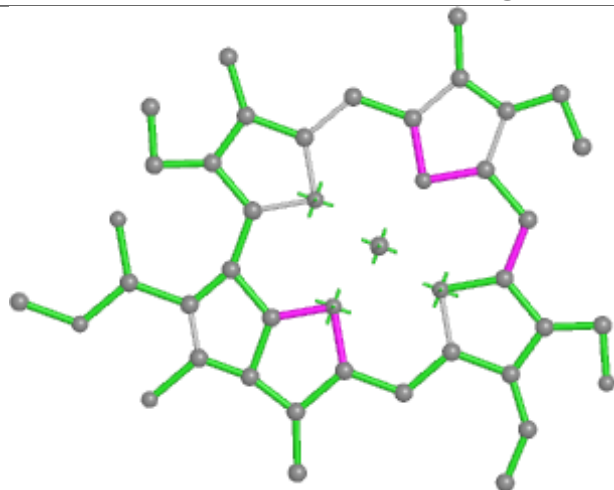


Torsions

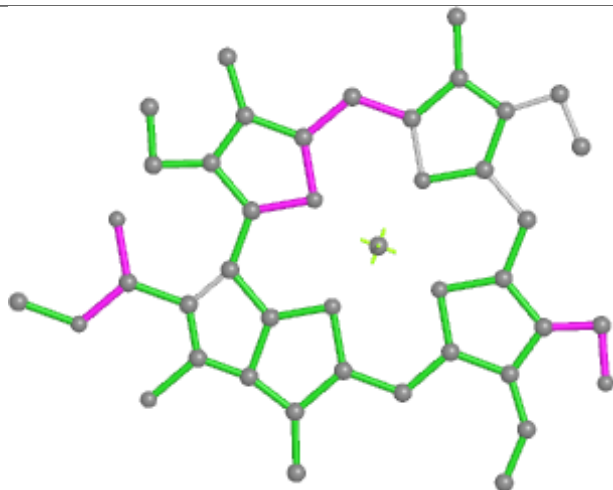


Rings

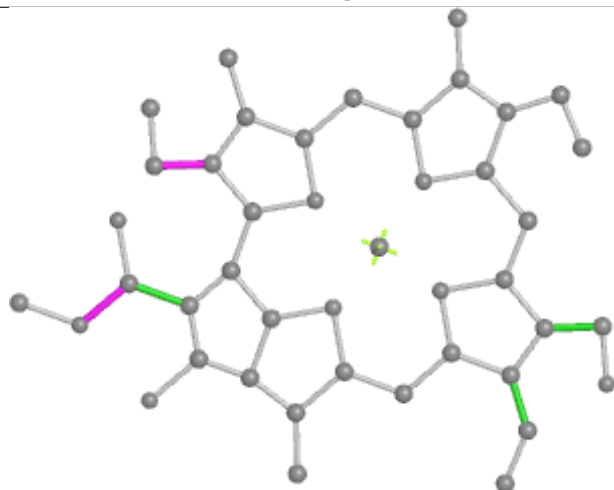
Ligand CHL GG 605



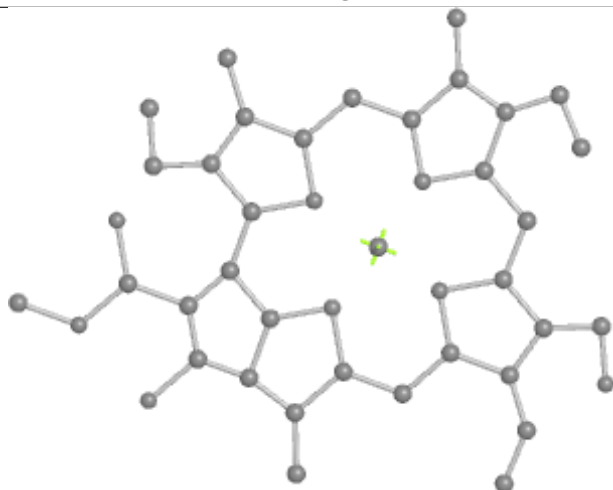
Bond lengths



Bond angles

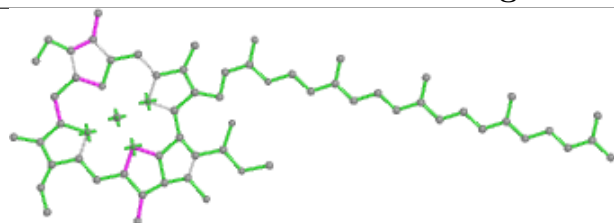


Torsions

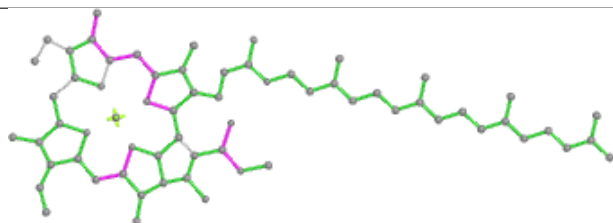


Rings

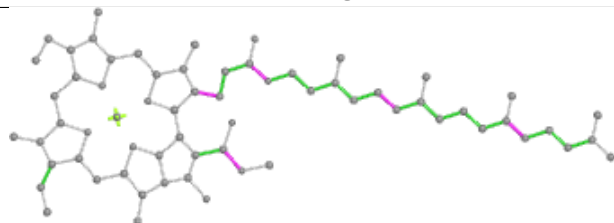
Ligand CLA DD 404



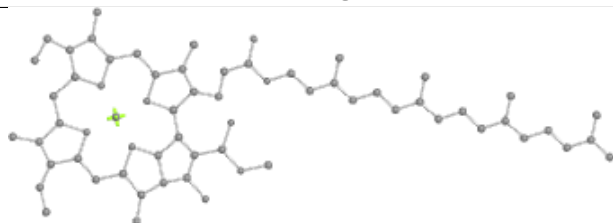
Bond lengths



Bond angles

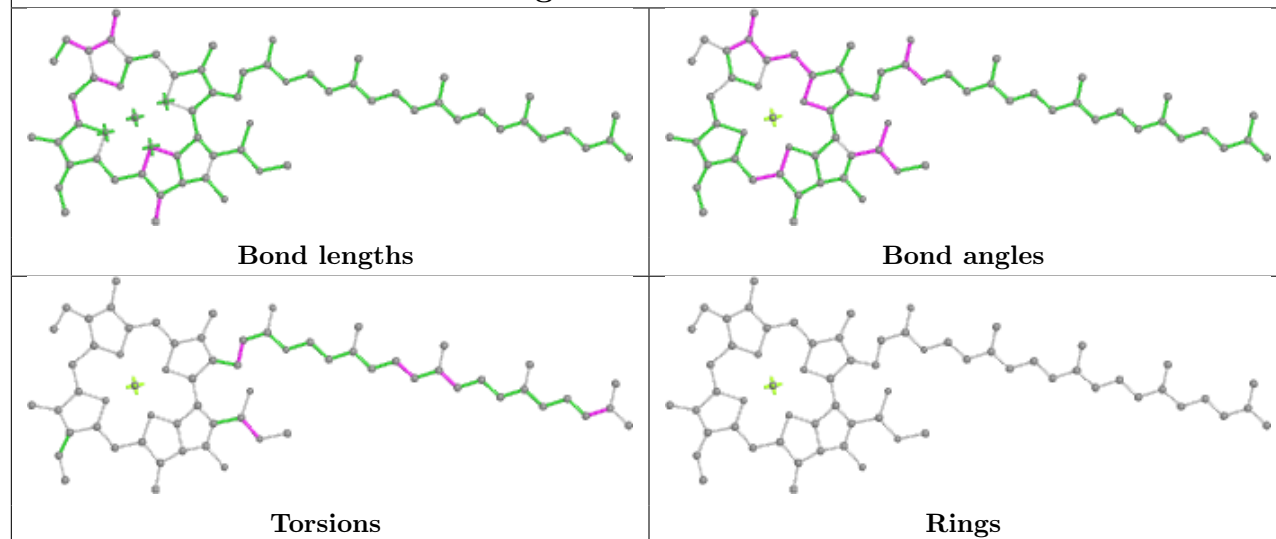


Torsions

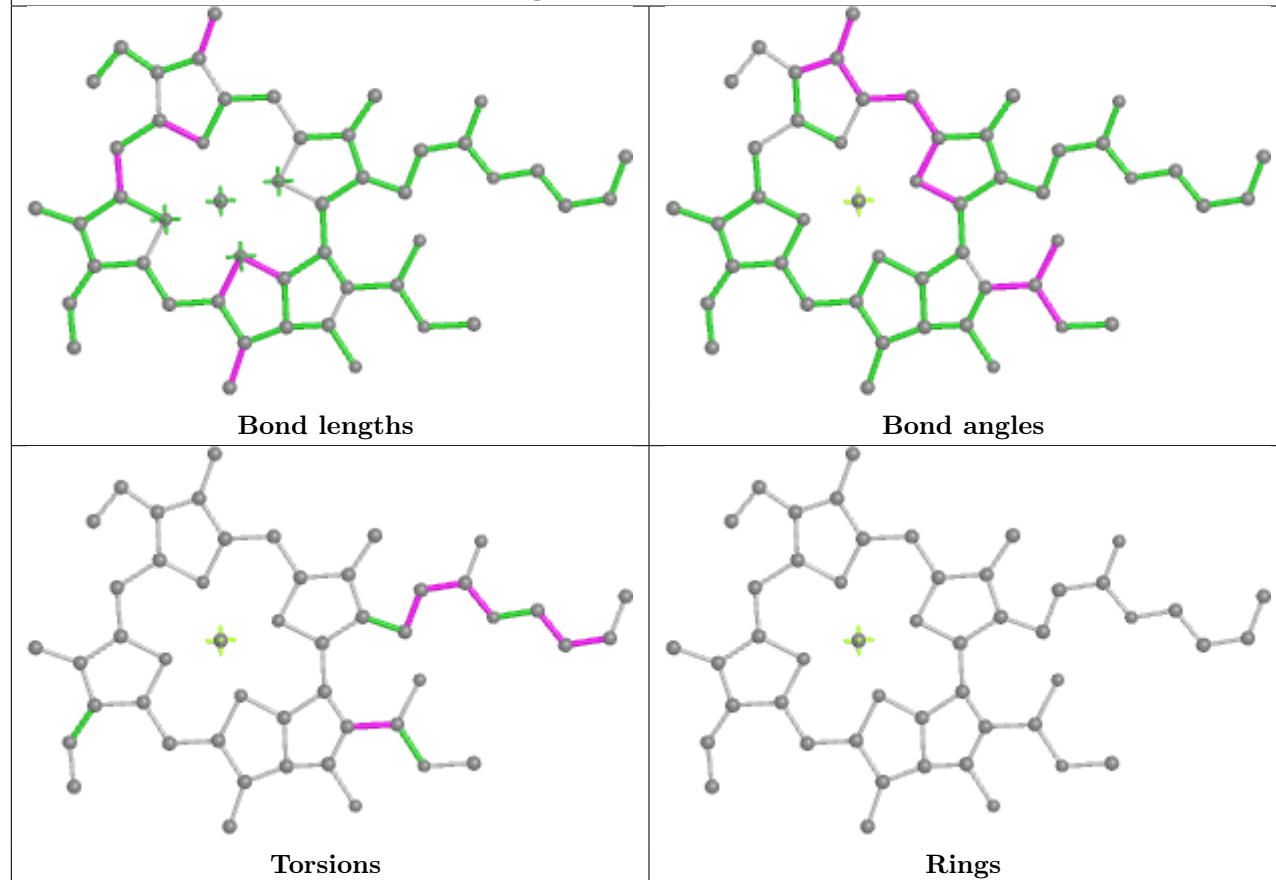


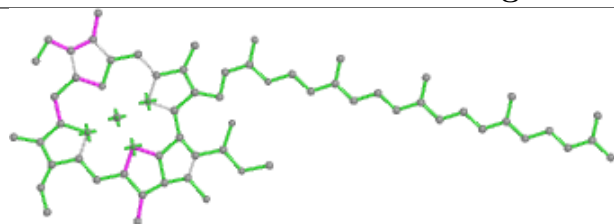
Rings

Ligand CLA b 606

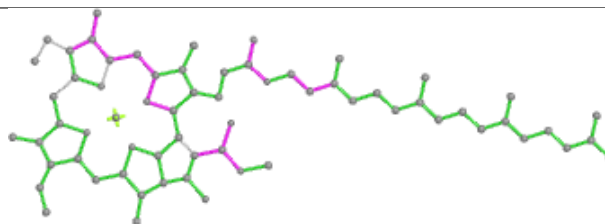


Ligand CLA Ss 612

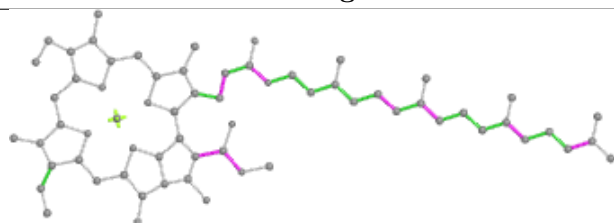


Ligand CLA BB 605

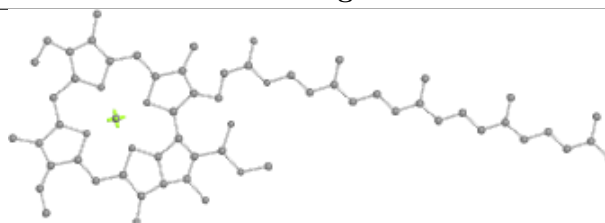
Bond lengths



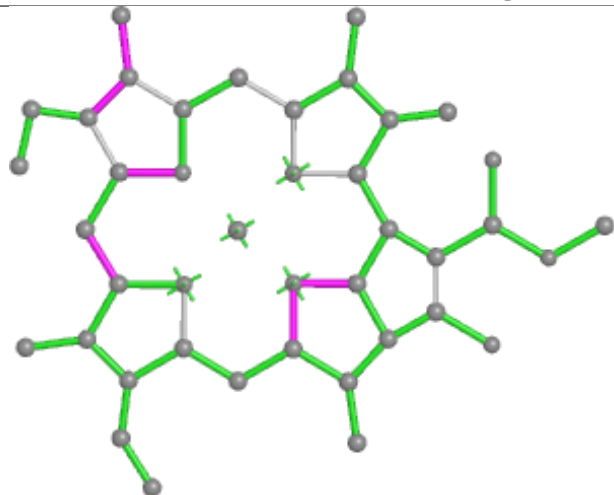
Bond angles



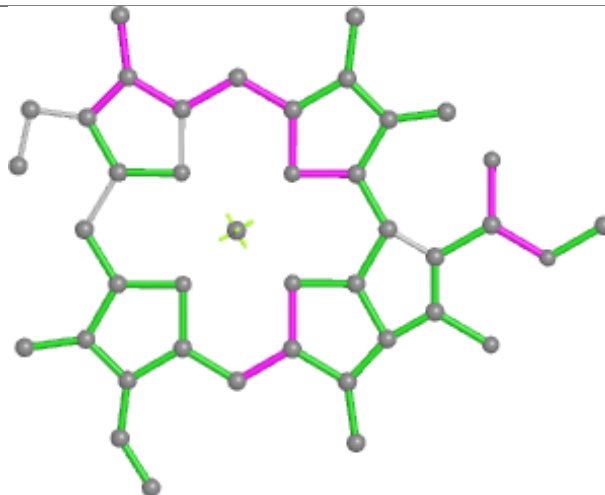
Torsions



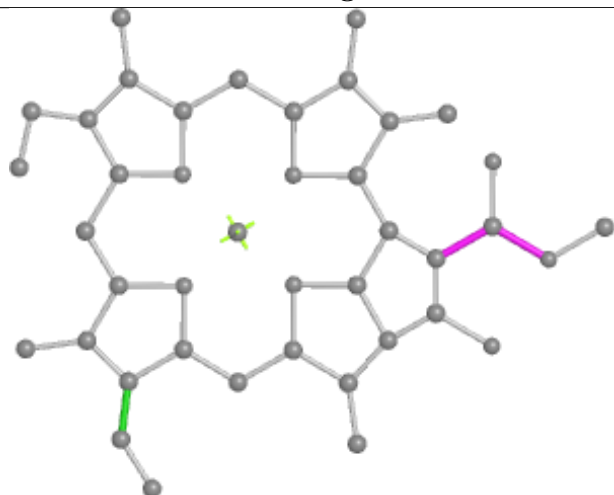
Rings

Ligand CLA NN 614

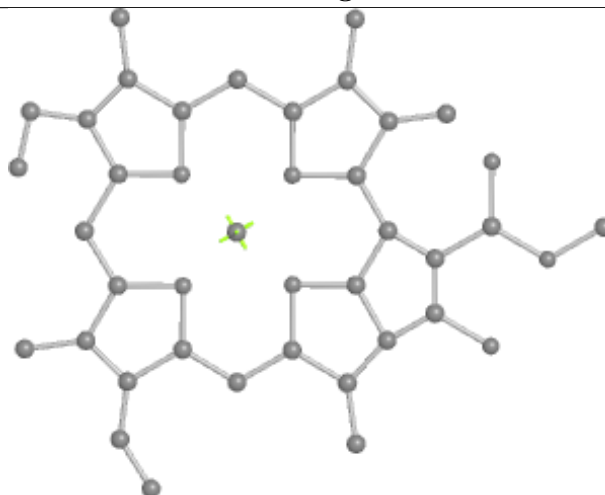
Bond lengths



Bond angles

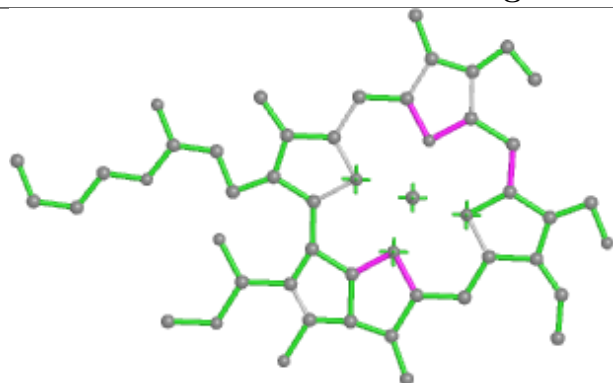


Torsions

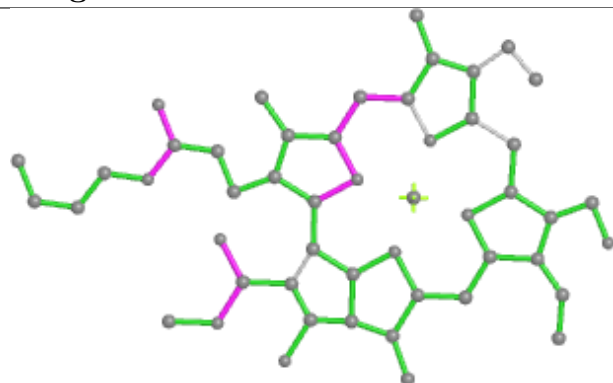


Rings

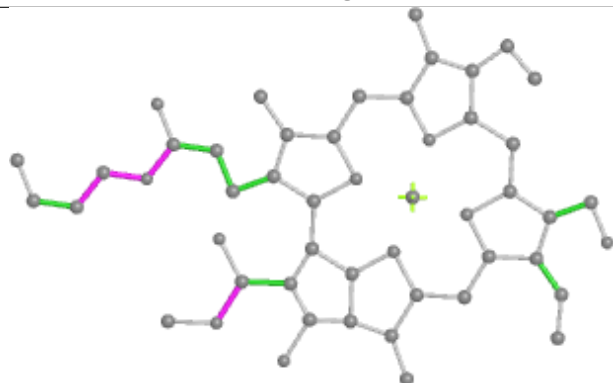
Ligand CHL Gg 308



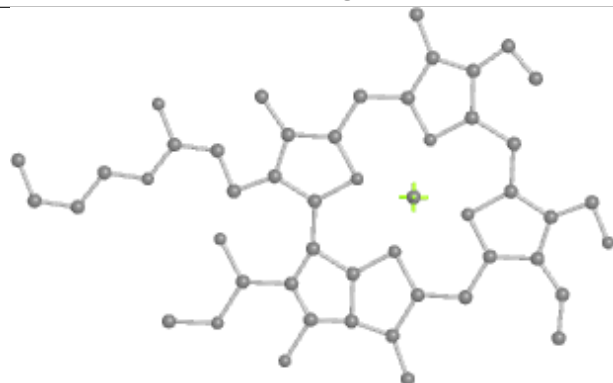
Bond lengths



Bond angles

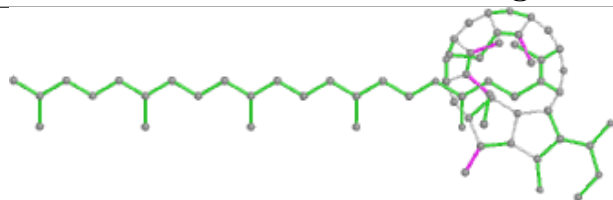


Torsions

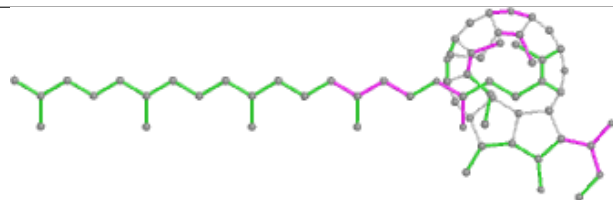


Rings

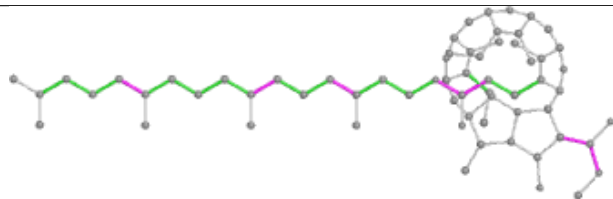
Ligand PHO A 407



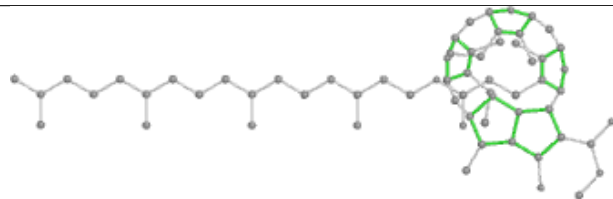
Bond lengths



Bond angles

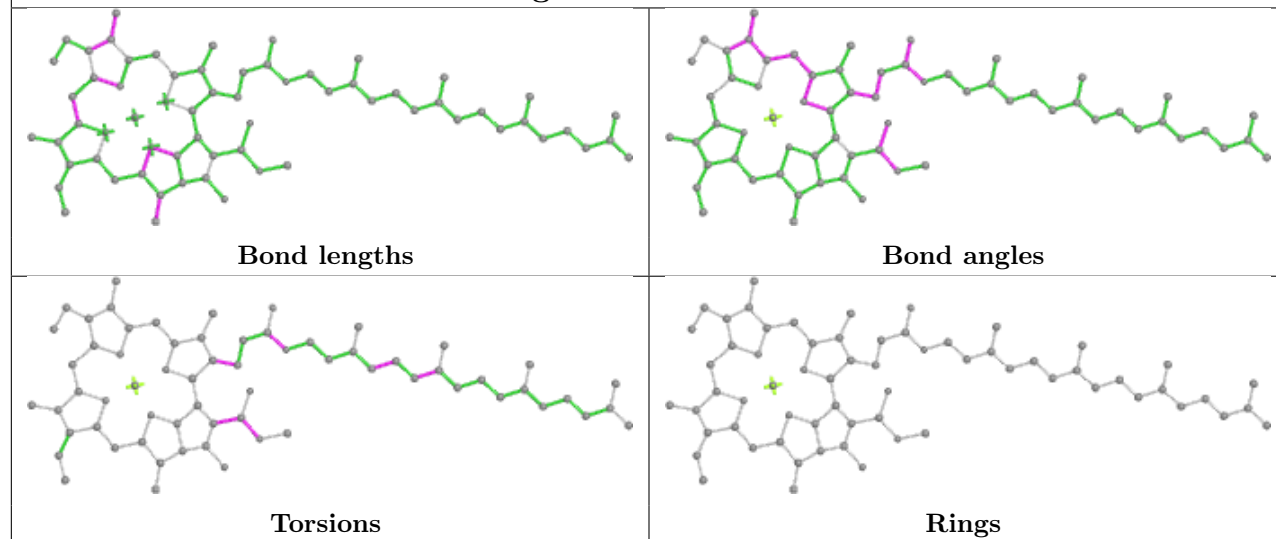


Torsions

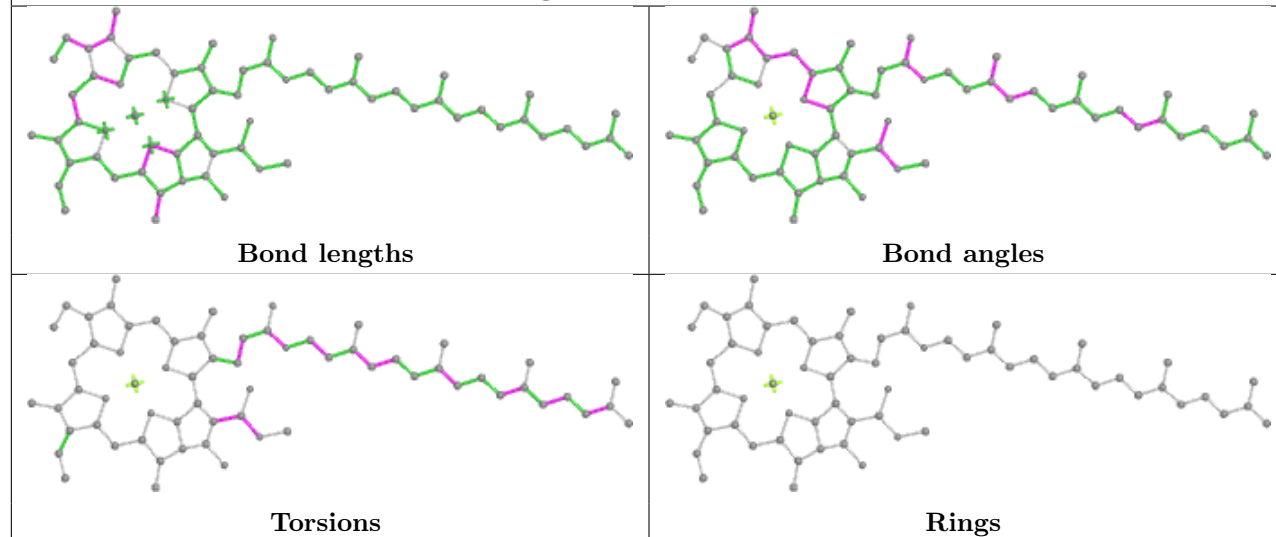


Rings

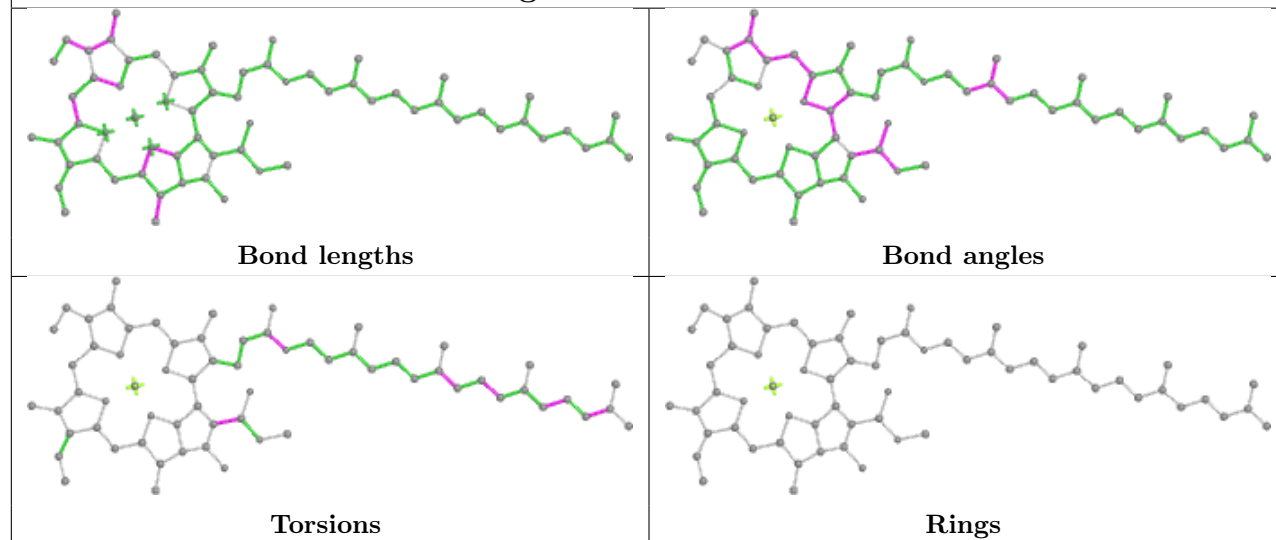
Ligand CLA C 508



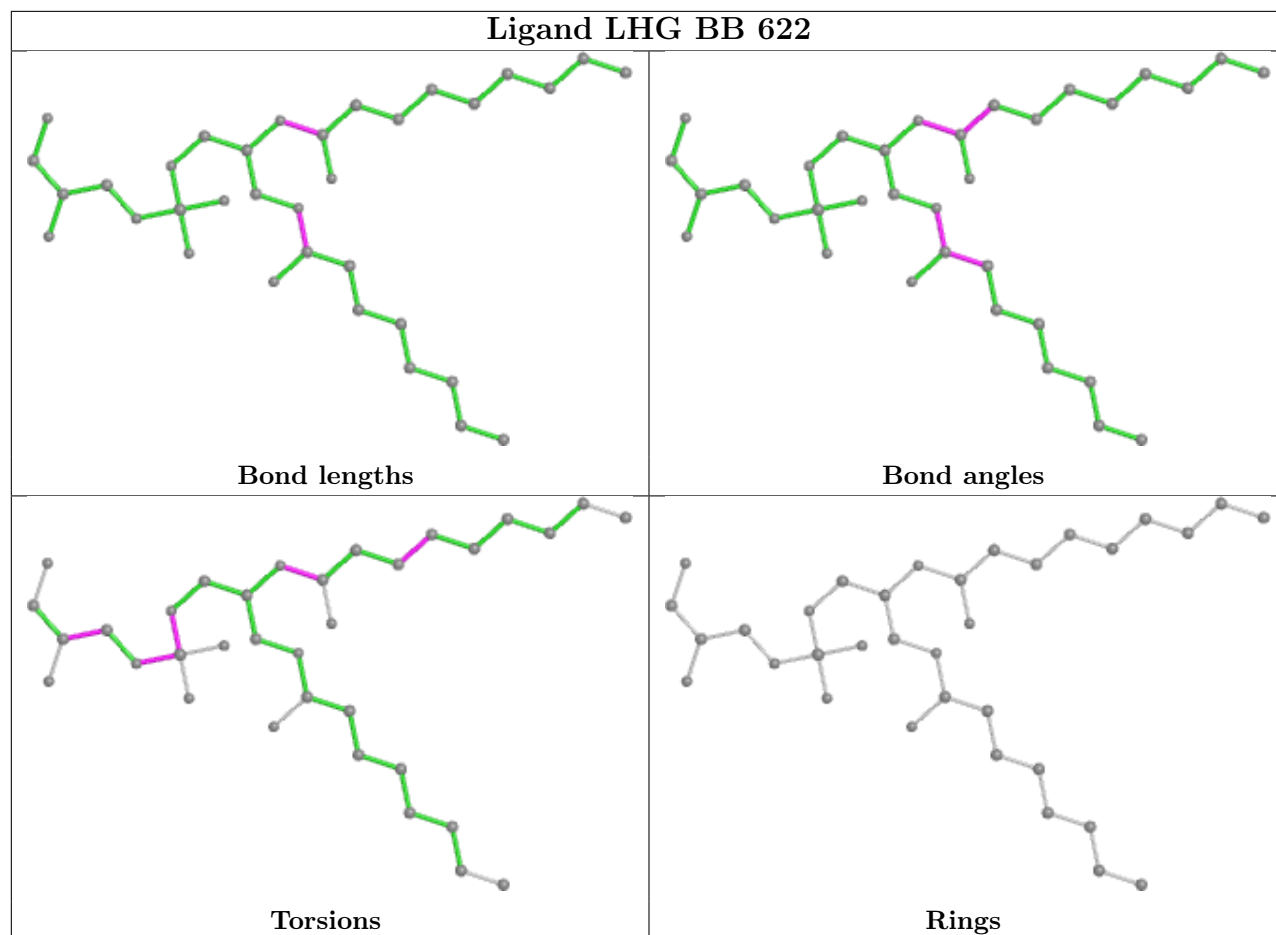
Ligand CLA c 501



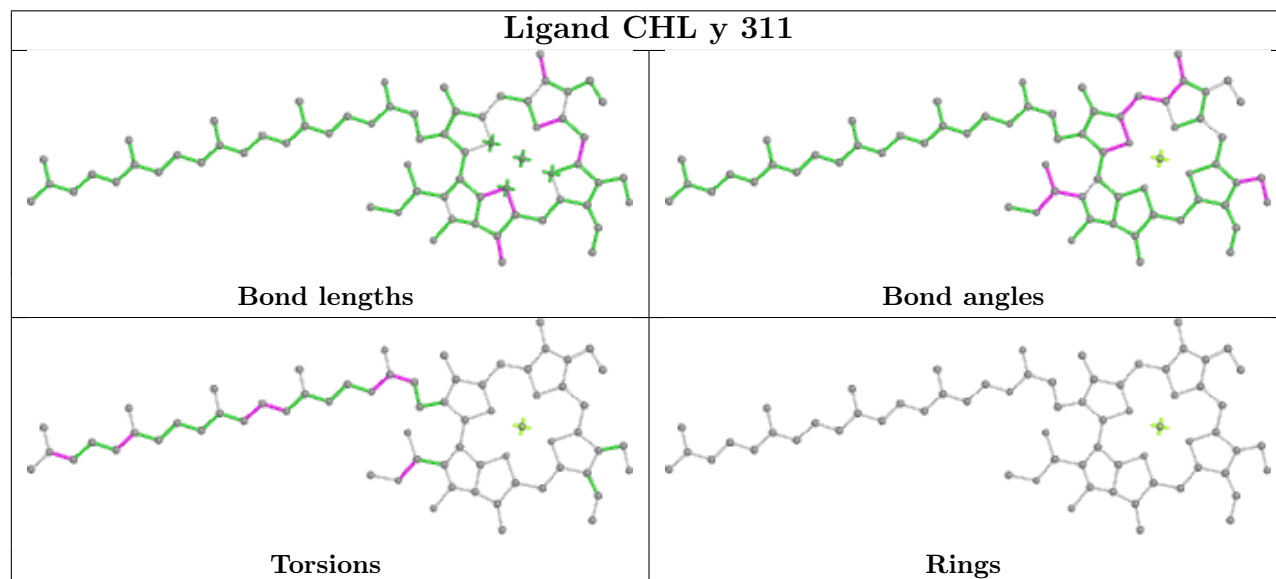
Ligand CLA CC 508

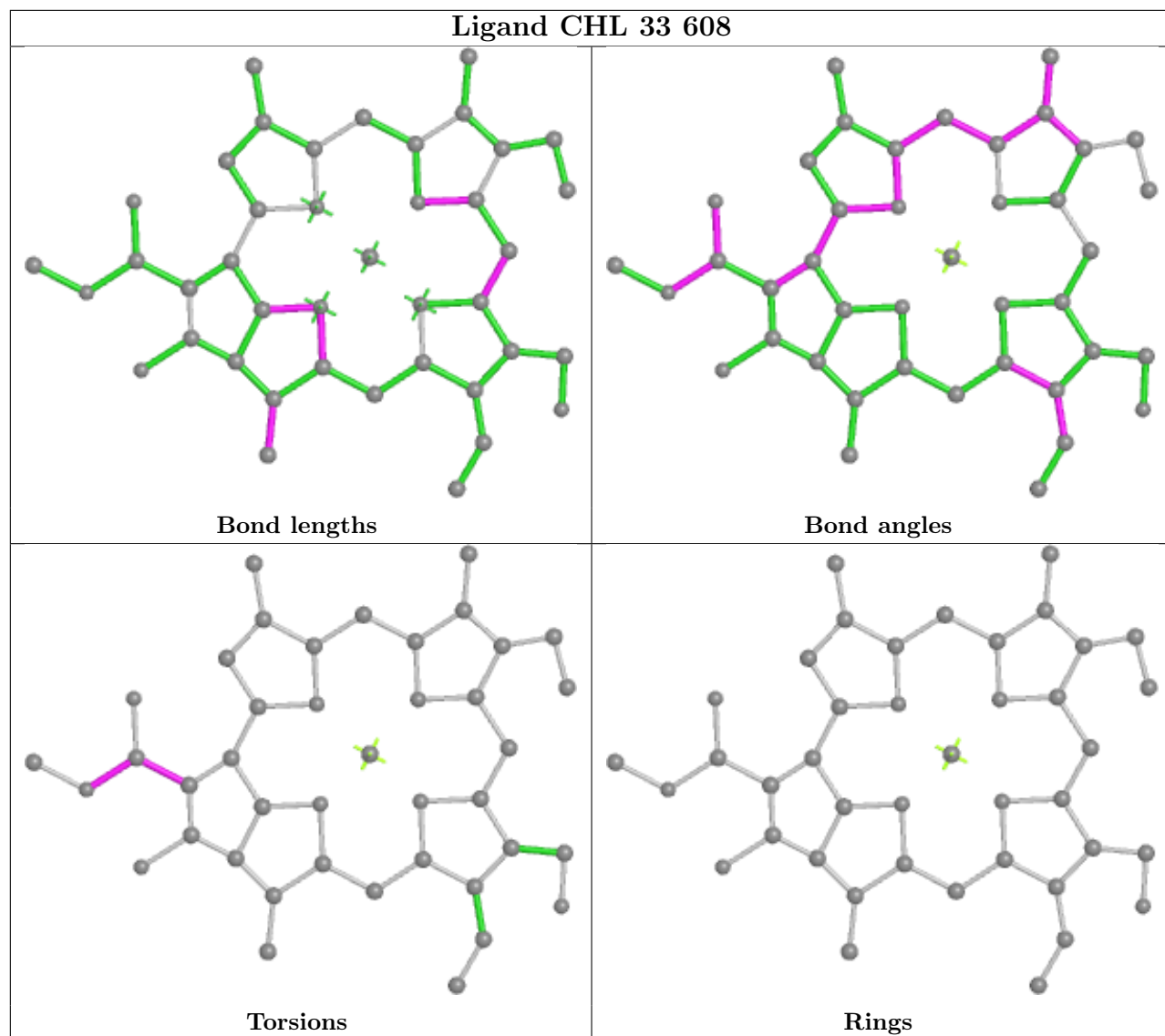


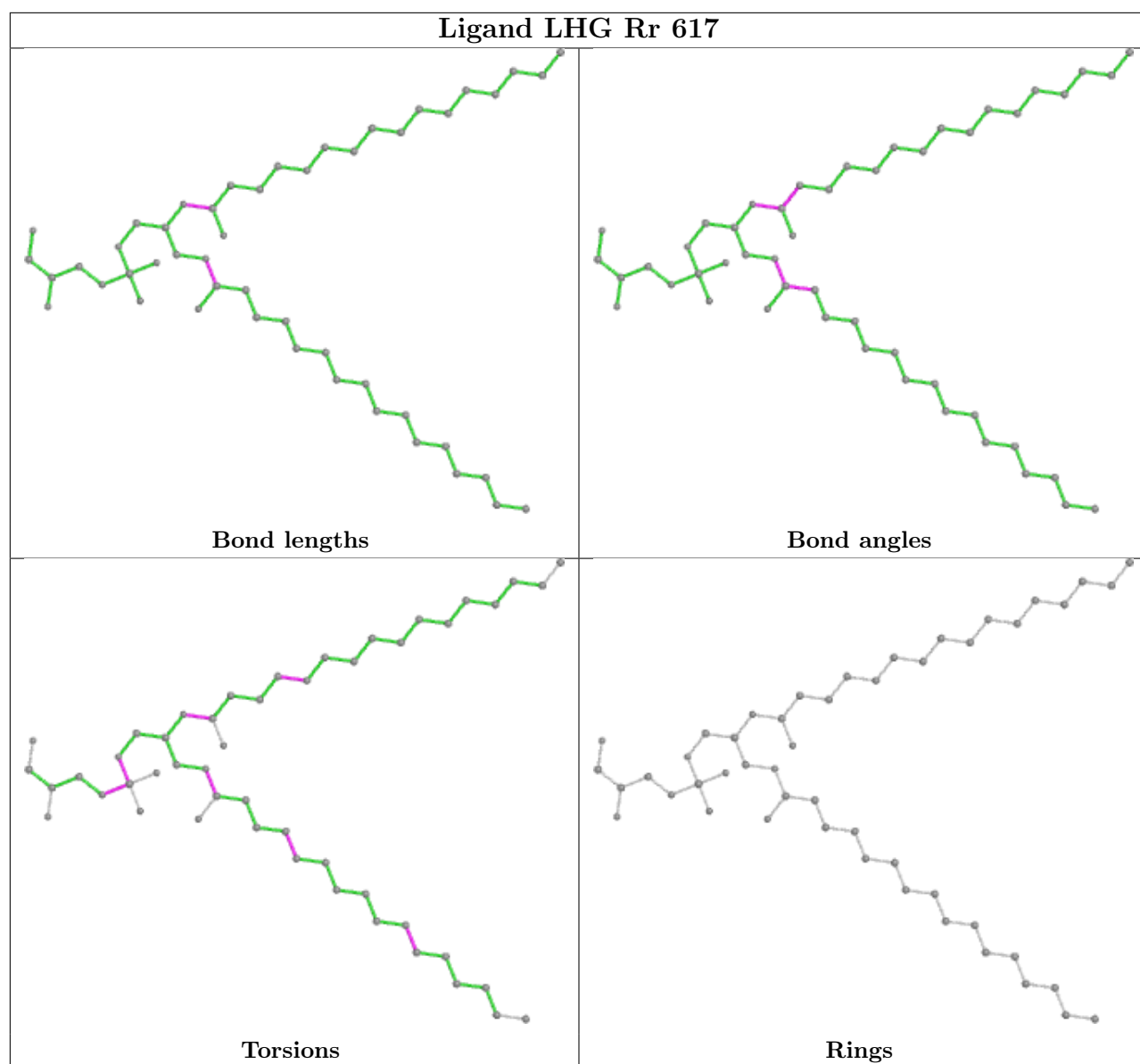
Ligand LHG BB 622

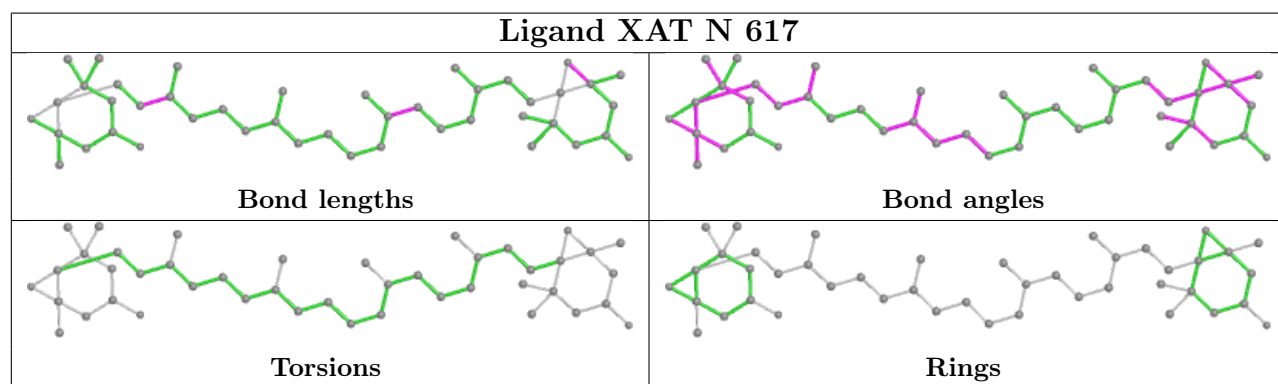
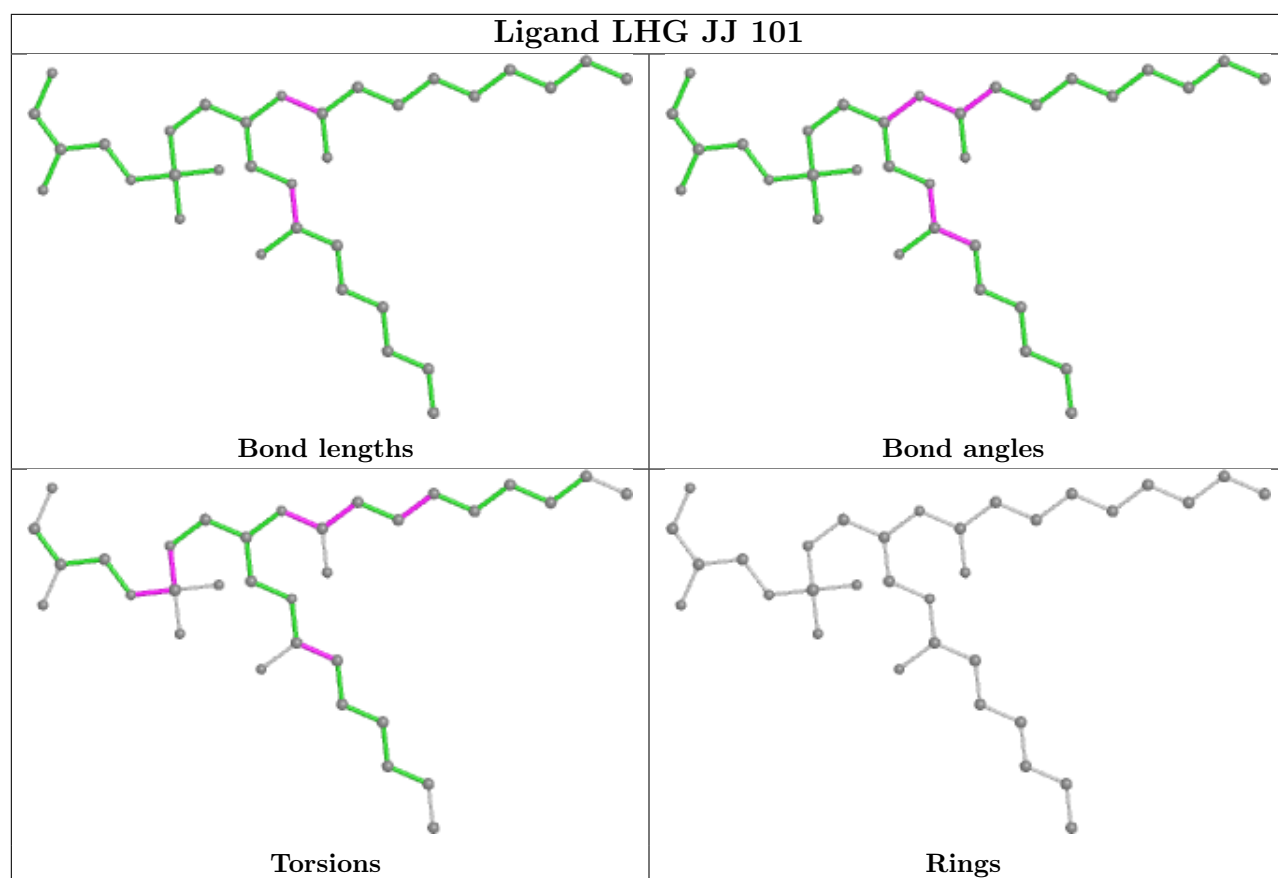


Ligand CHL y 311

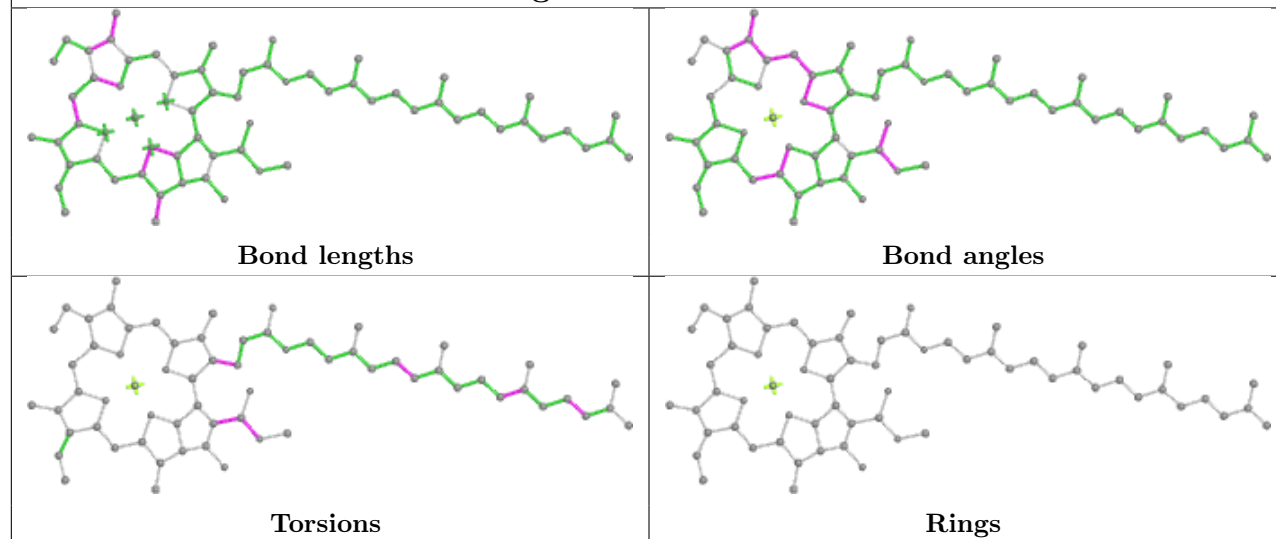




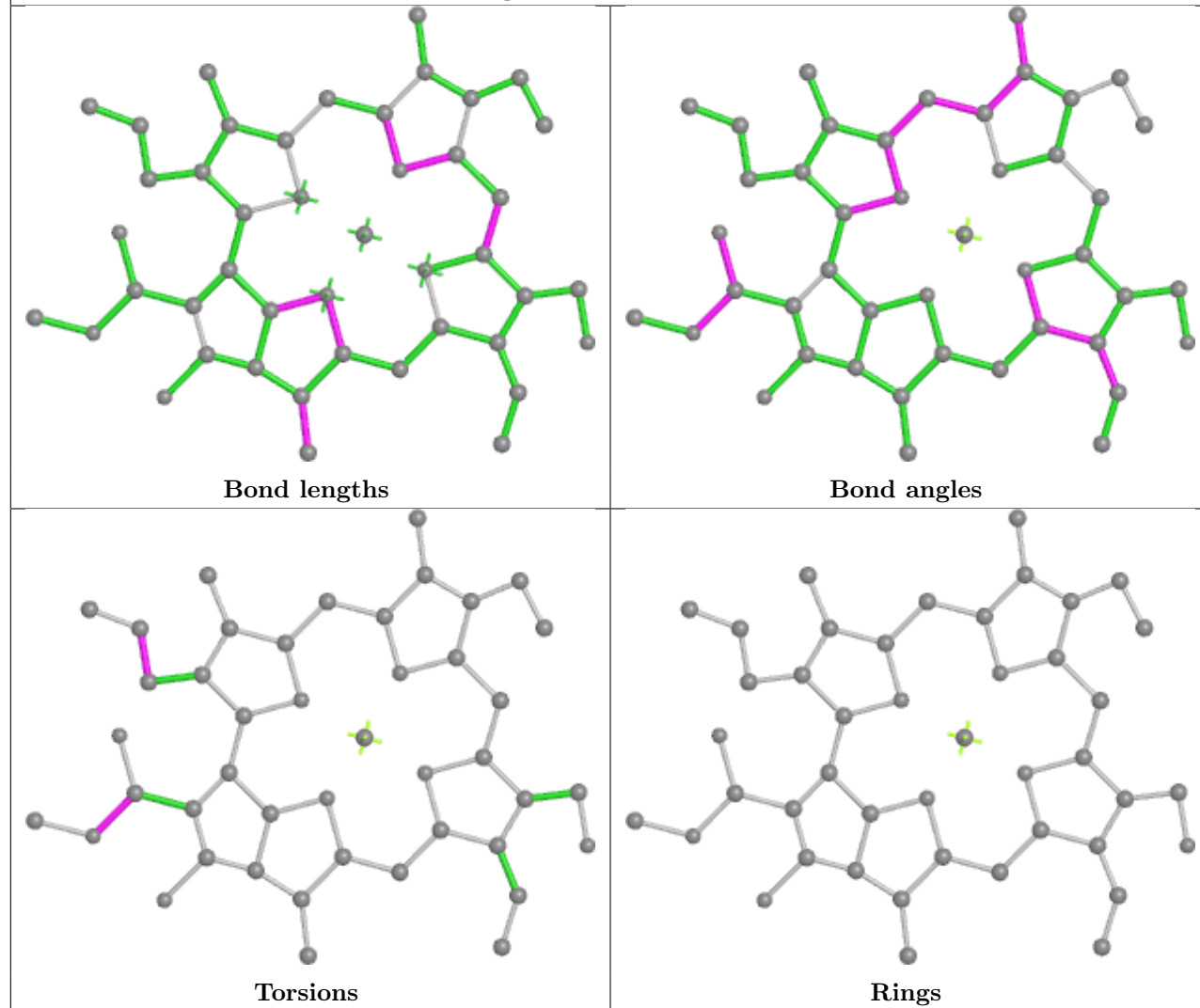




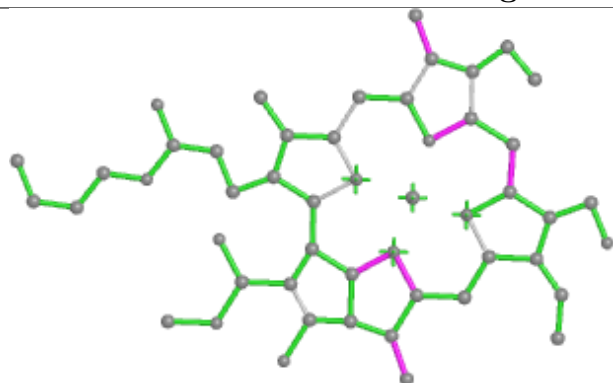
Ligand CLA B 604



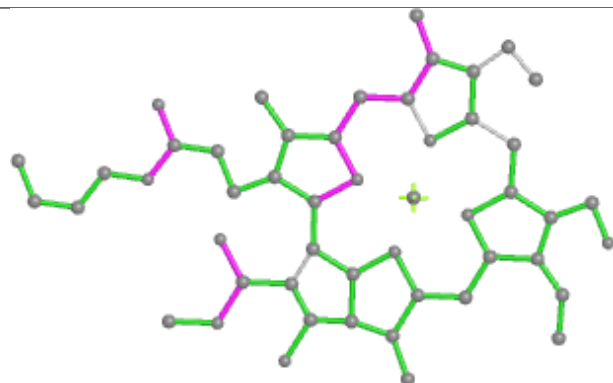
Ligand CHL N 601



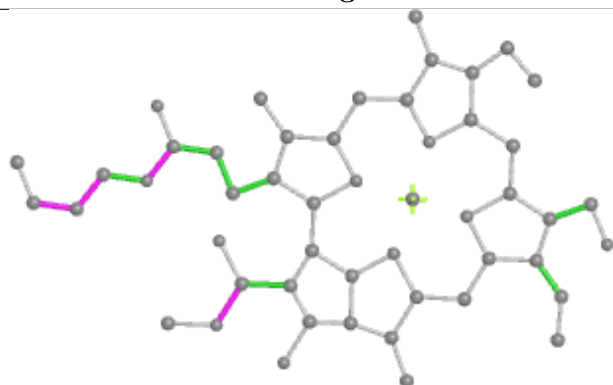
Ligand CHL YY 608



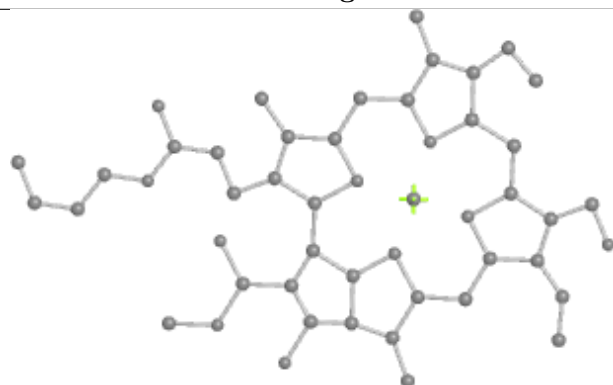
Bond lengths



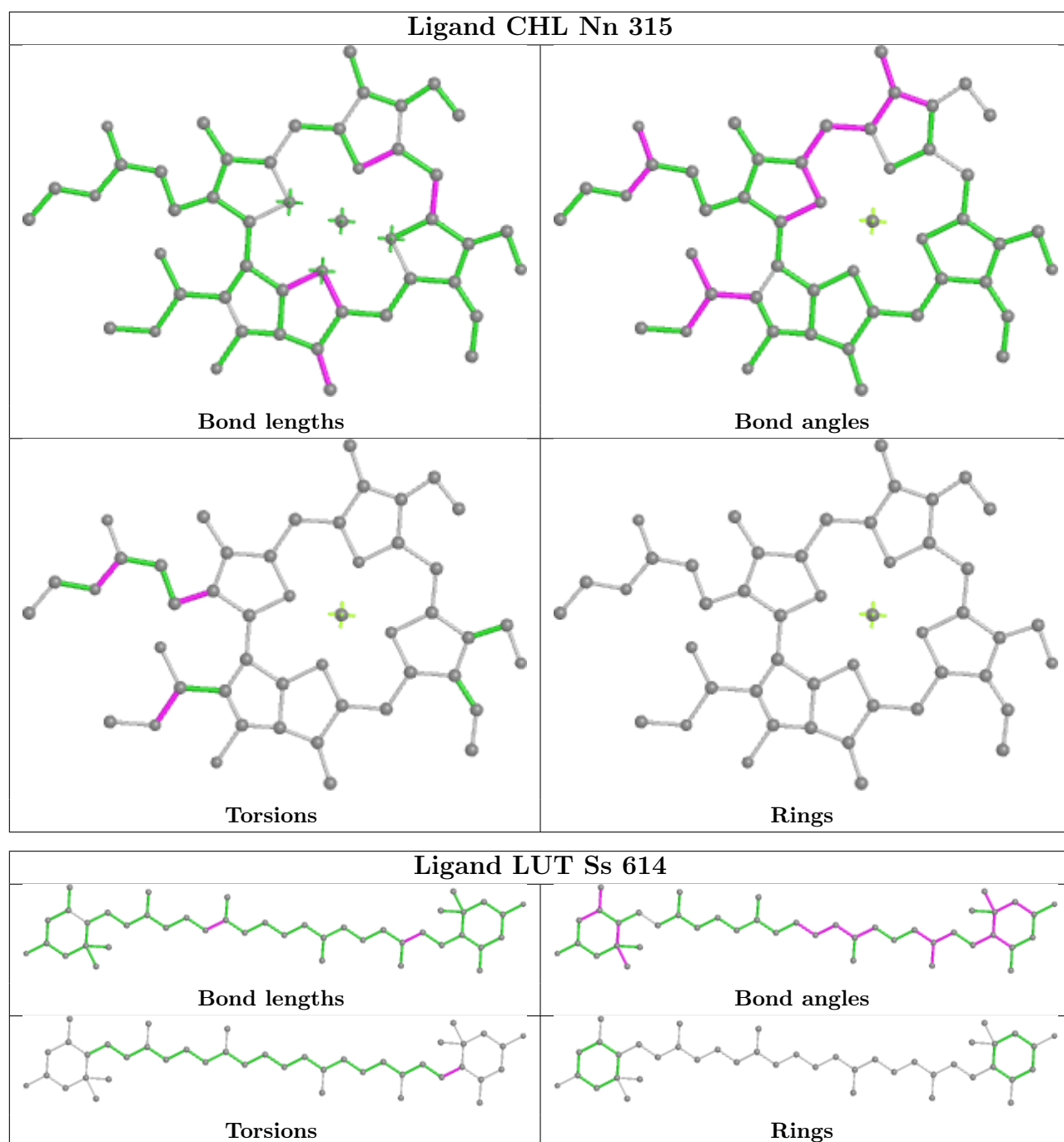
Bond angles

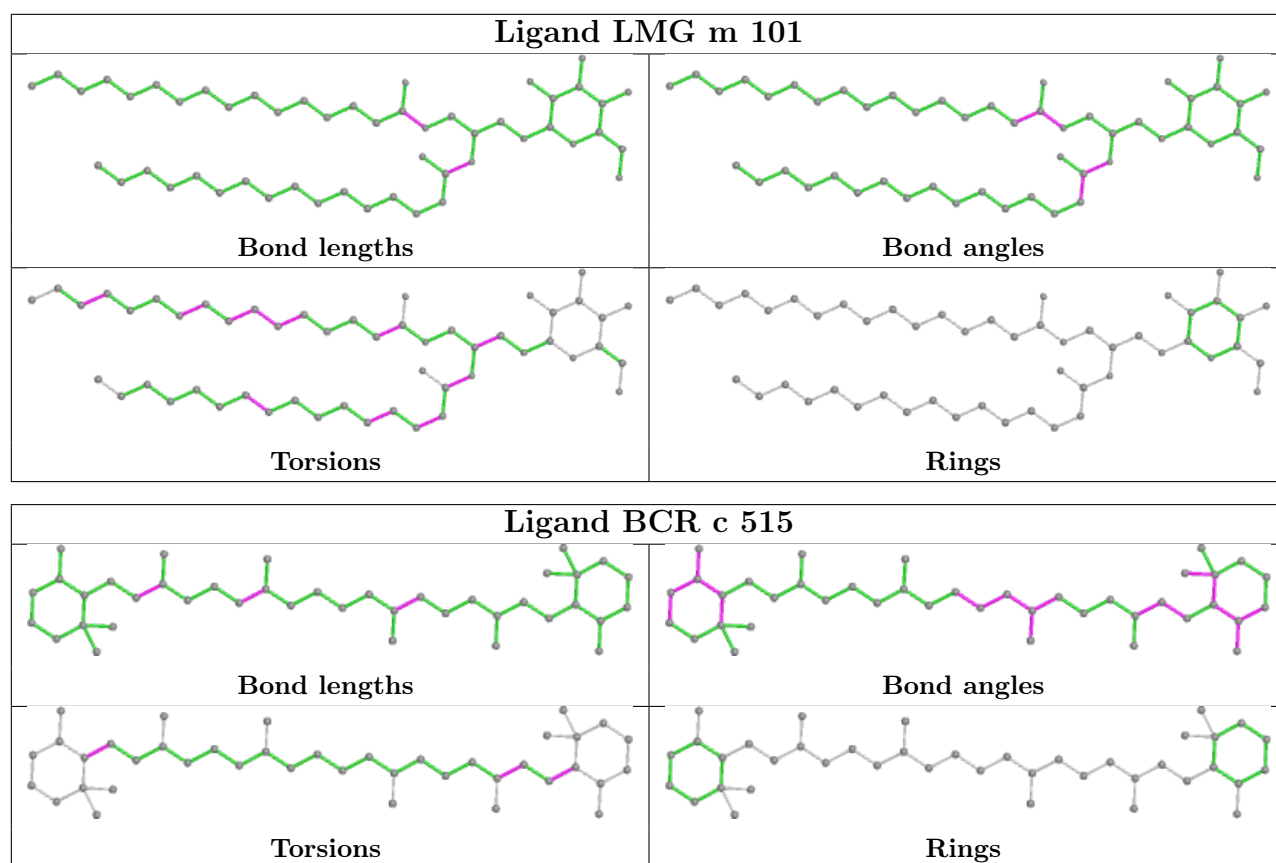


Torsions

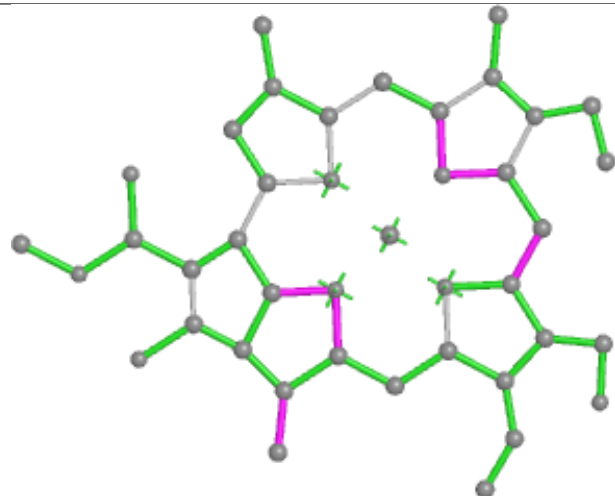


Rings

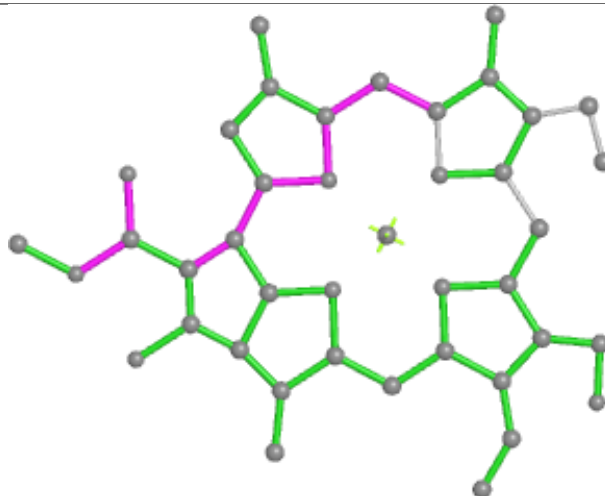




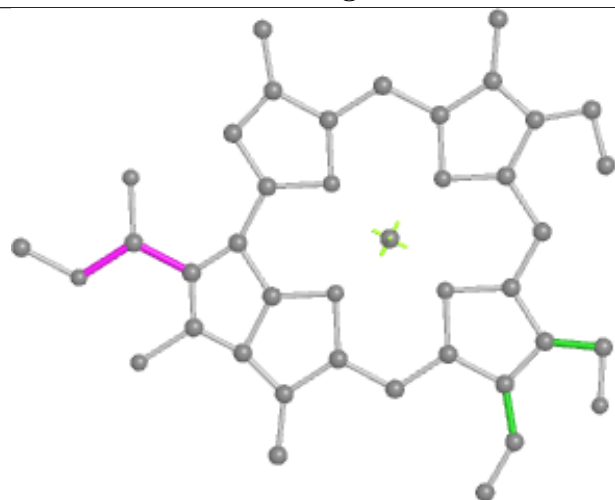
Ligand CHL 1 601



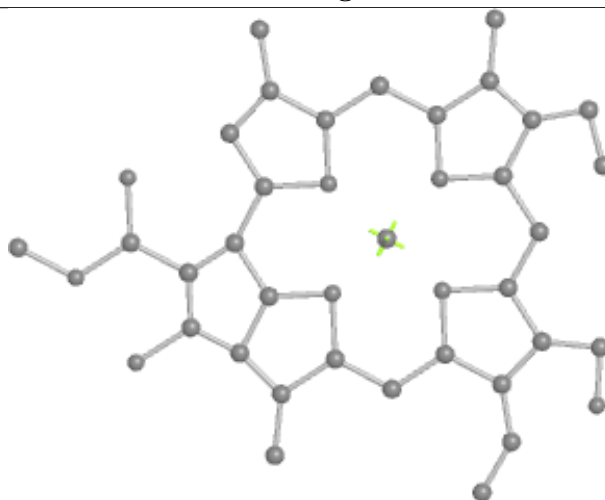
Bond lengths



Bond angles

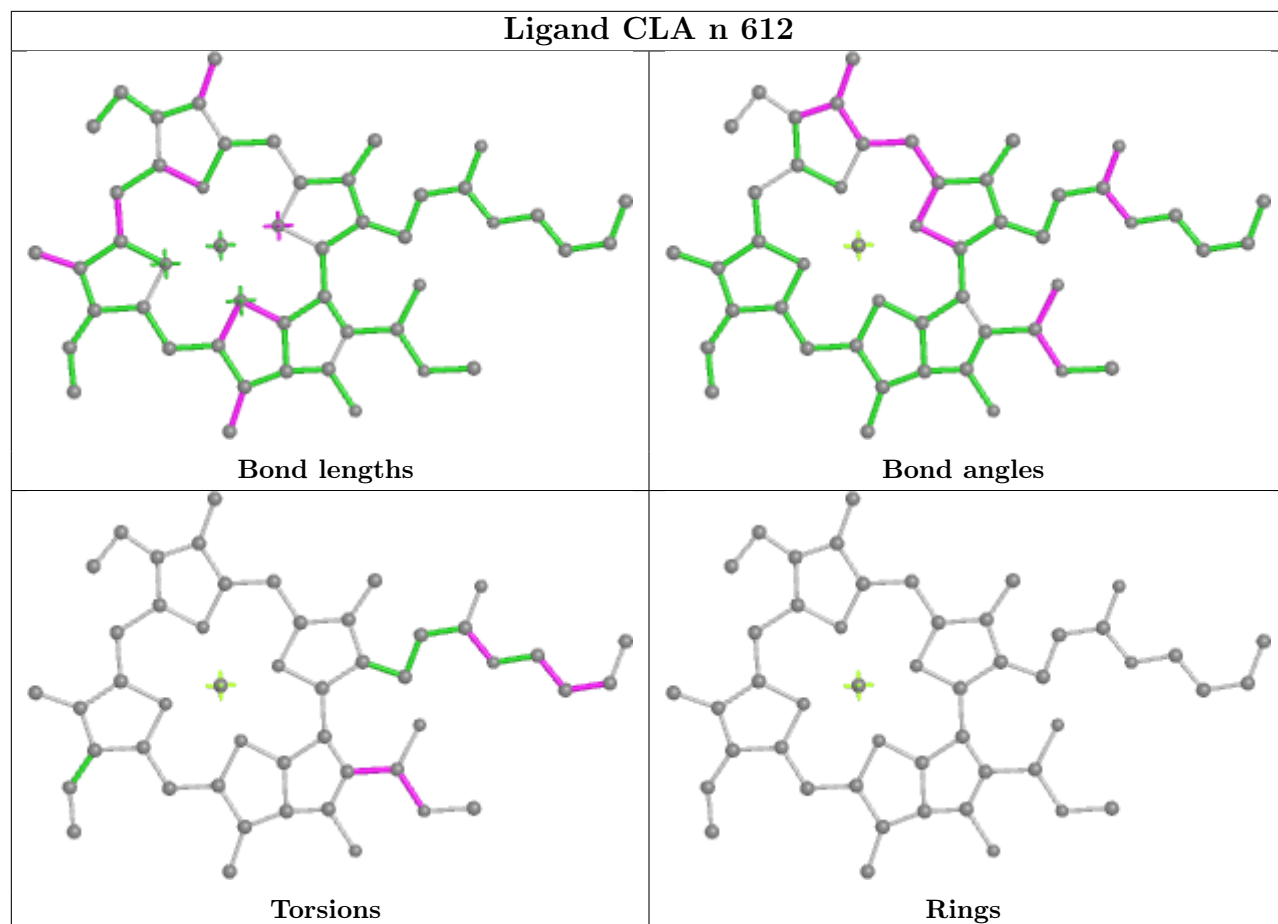


Torsions

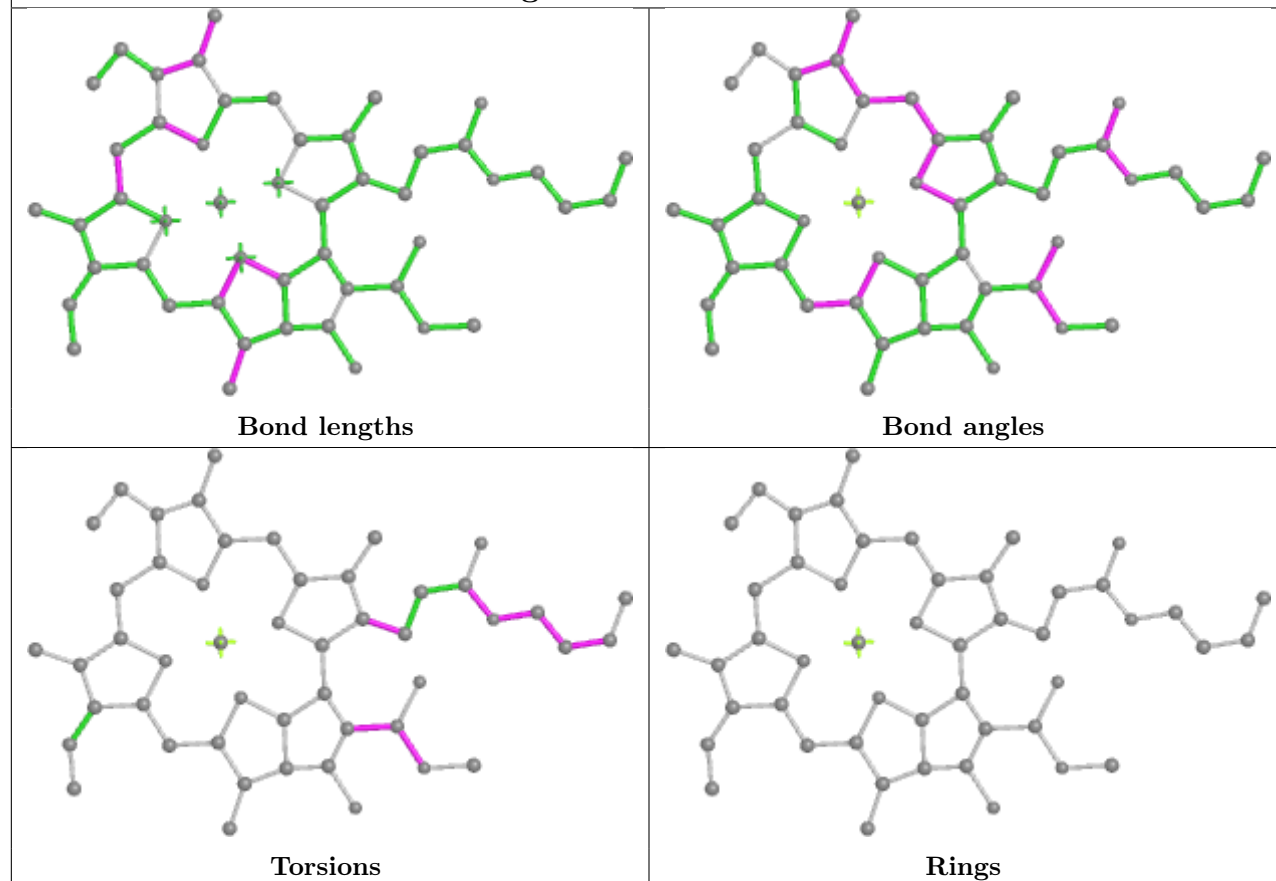


Rings

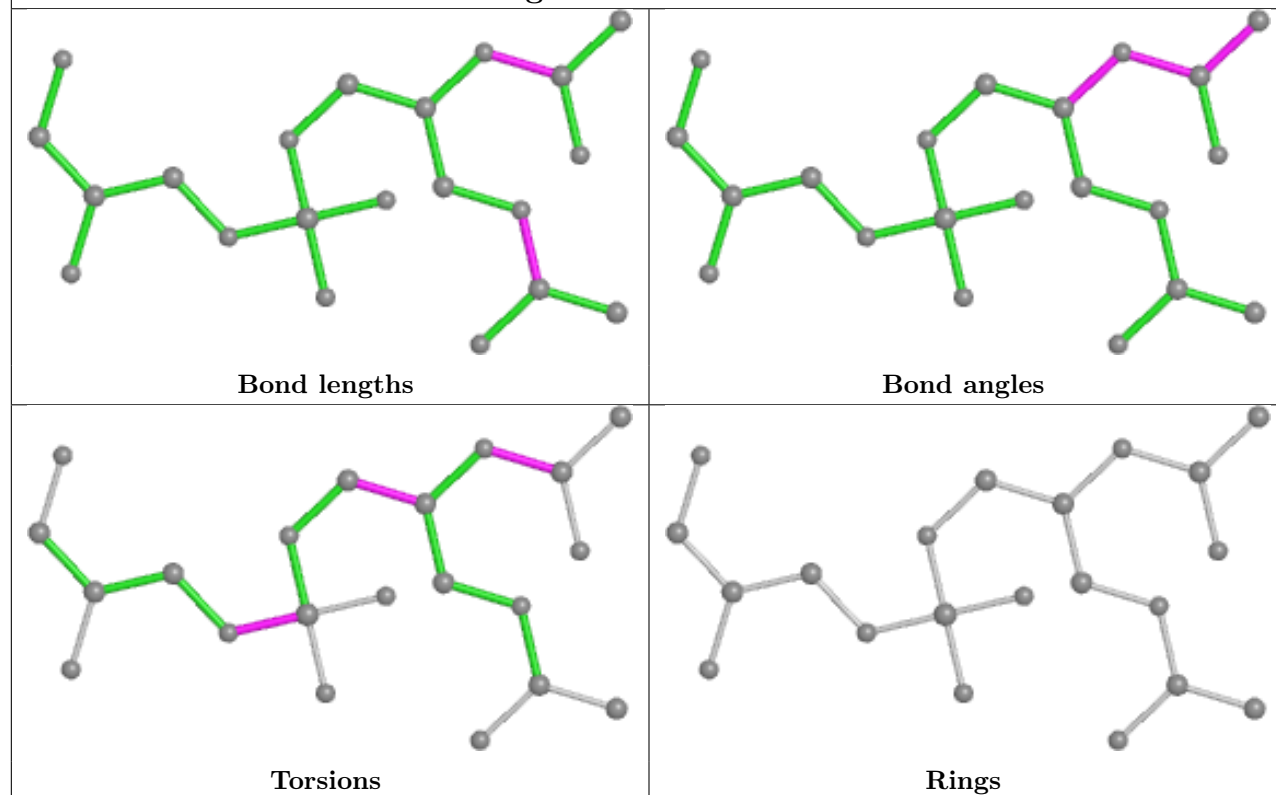
Ligand CLA n 612

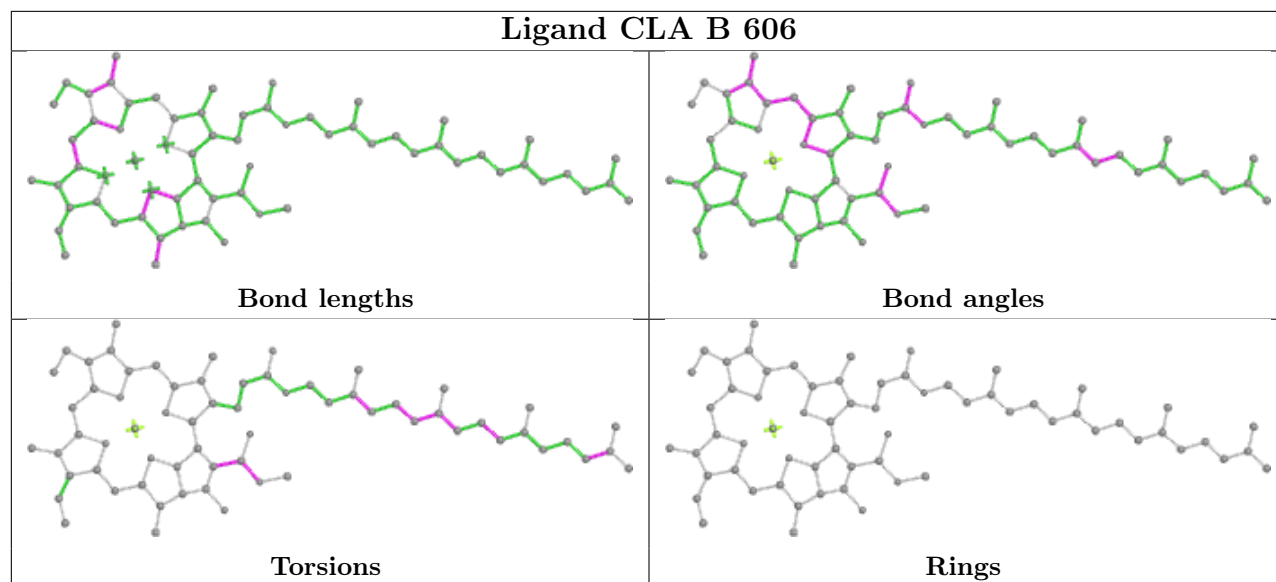
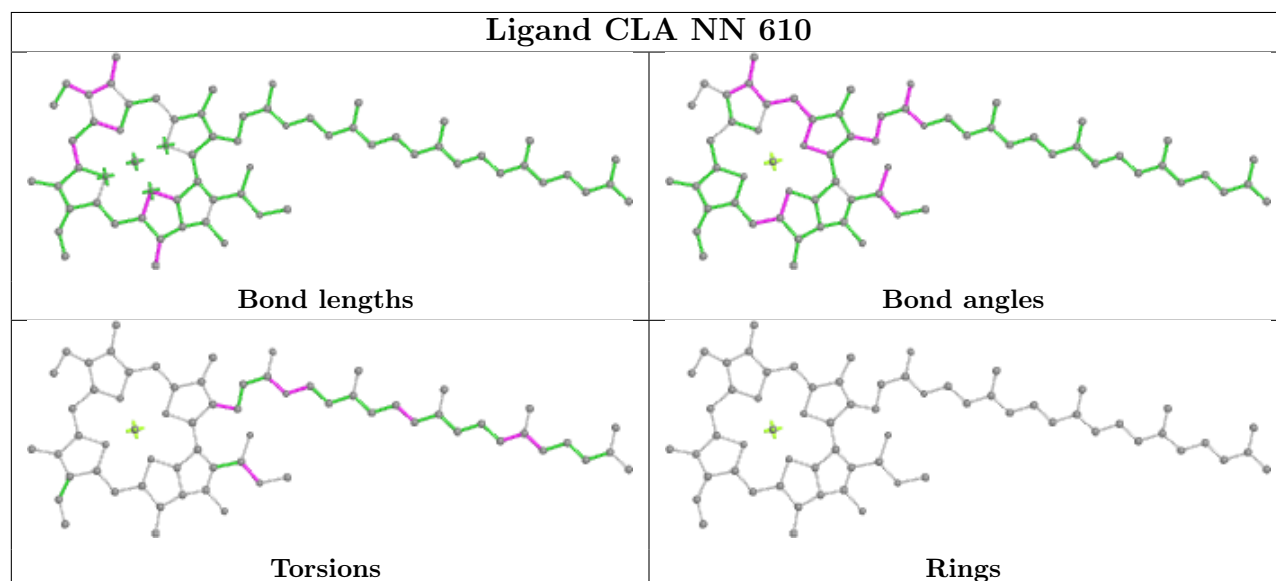
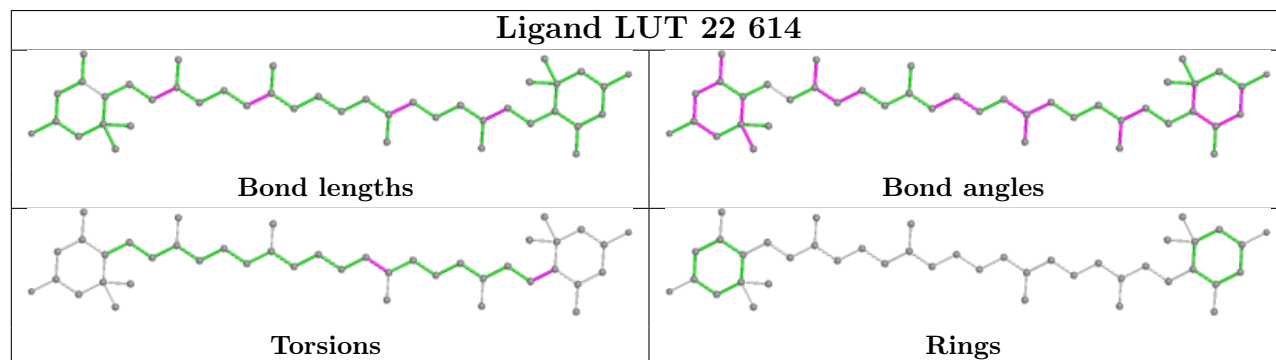


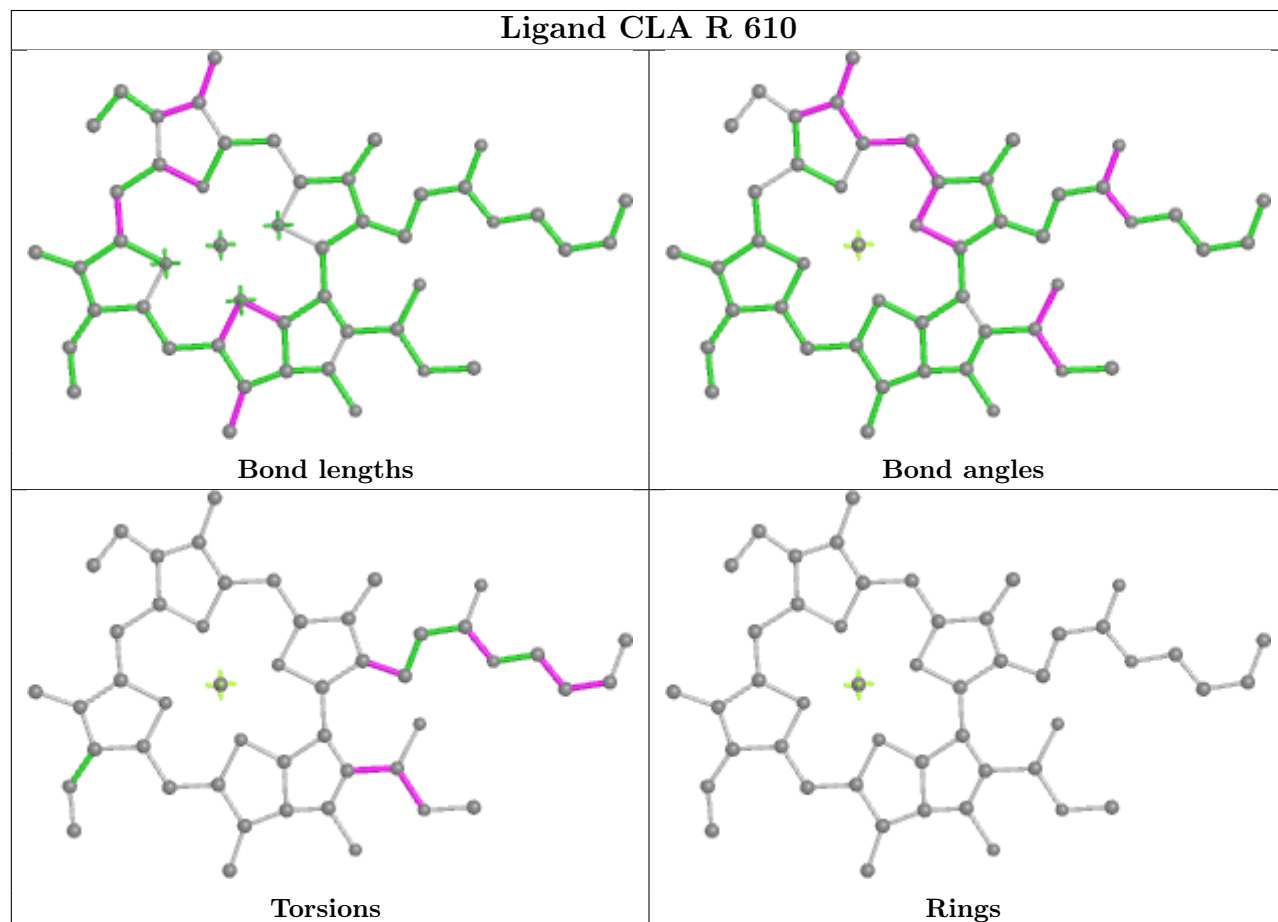
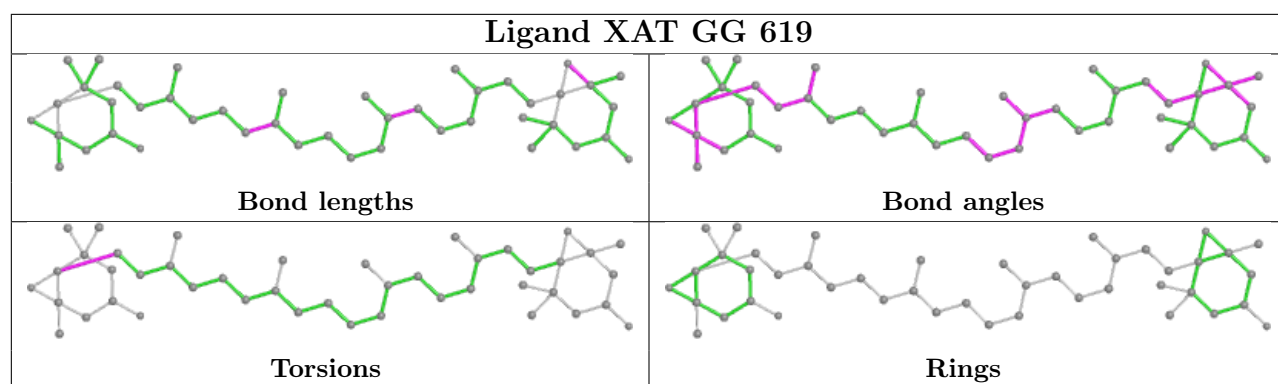
Ligand CLA Nn 313



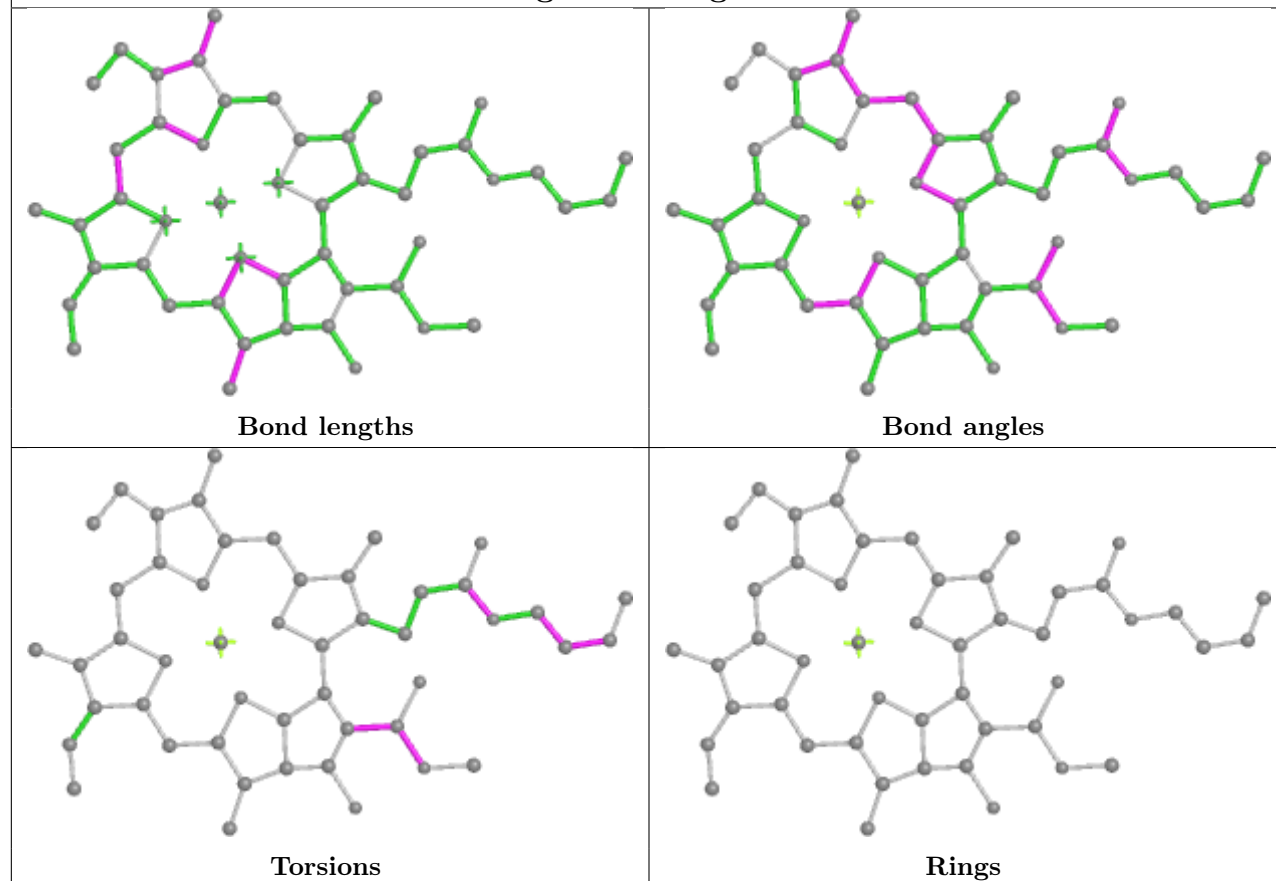
Ligand LHG 44 614



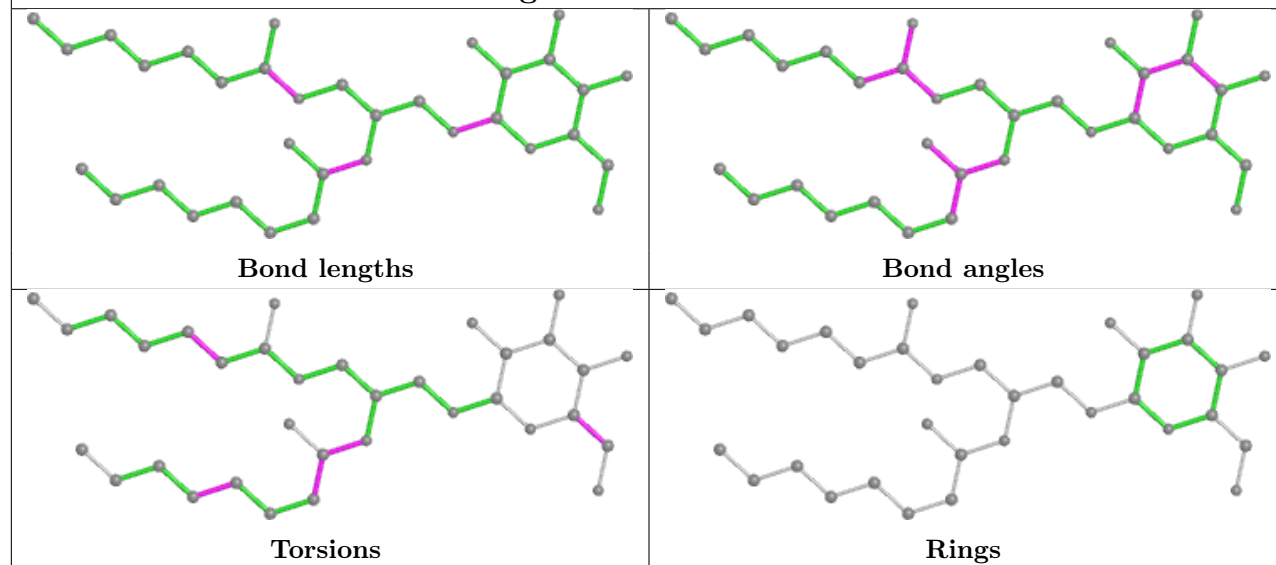
Ligand CLA B 606**Ligand CLA NN 610****Ligand LUT 22 614**



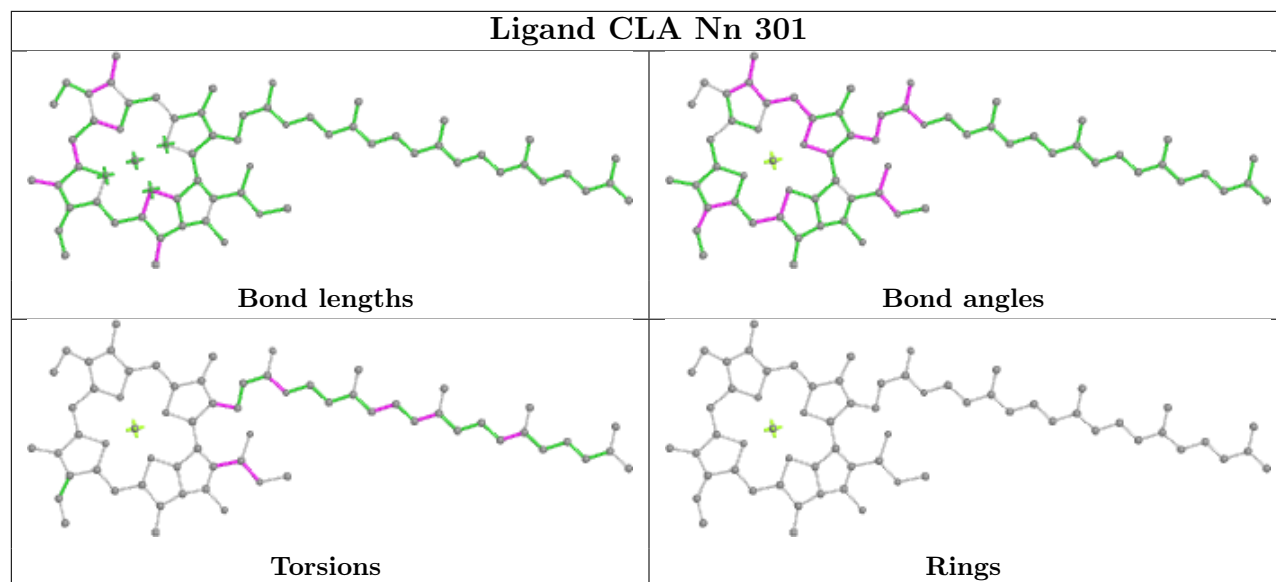
Ligand CLA g 614



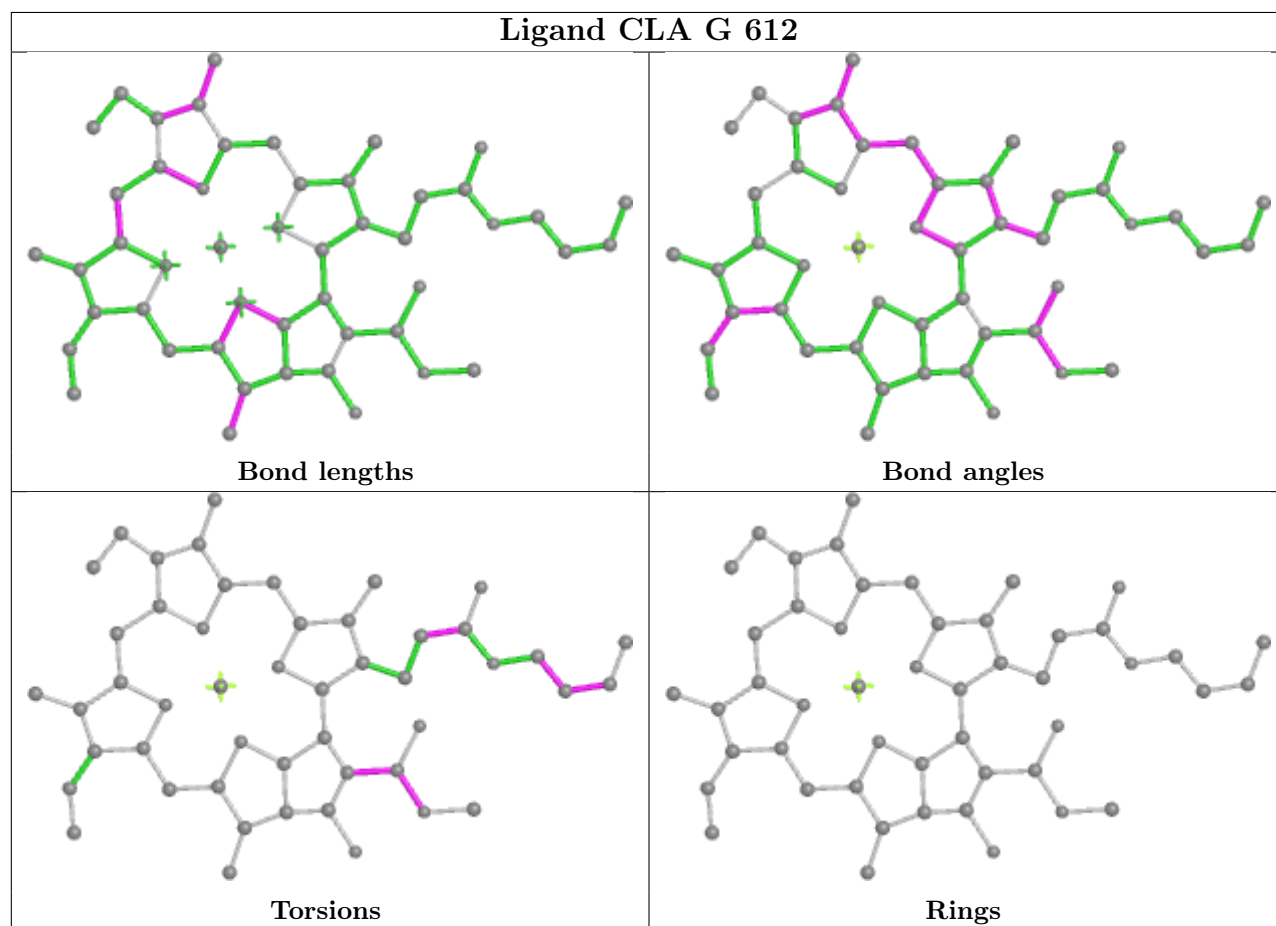
Ligand LMG Cc 501



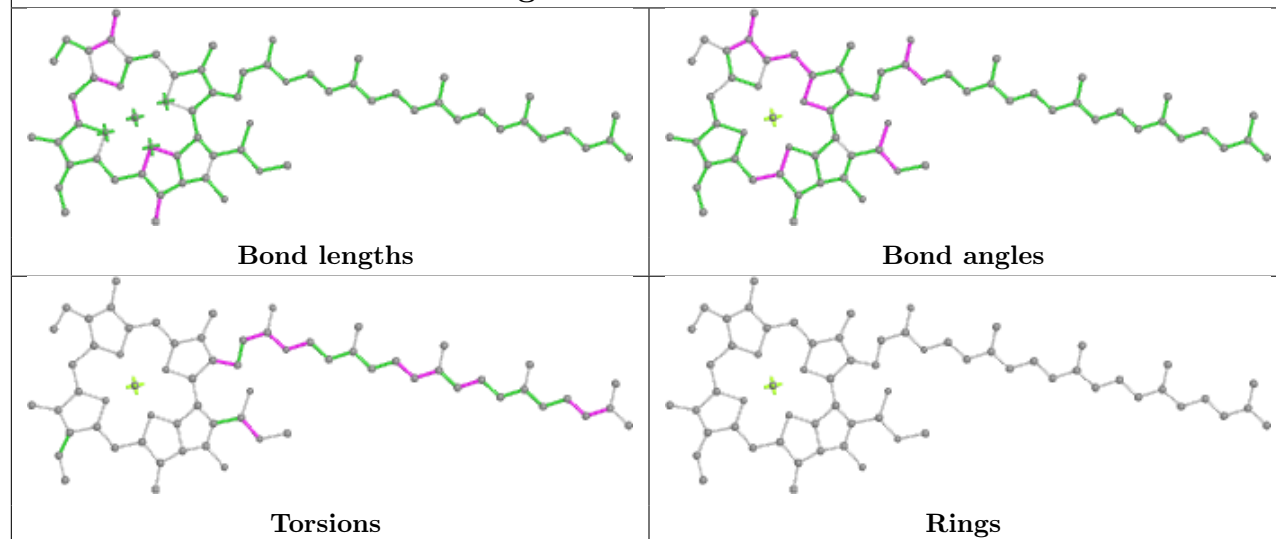
Ligand CLA Nn 301



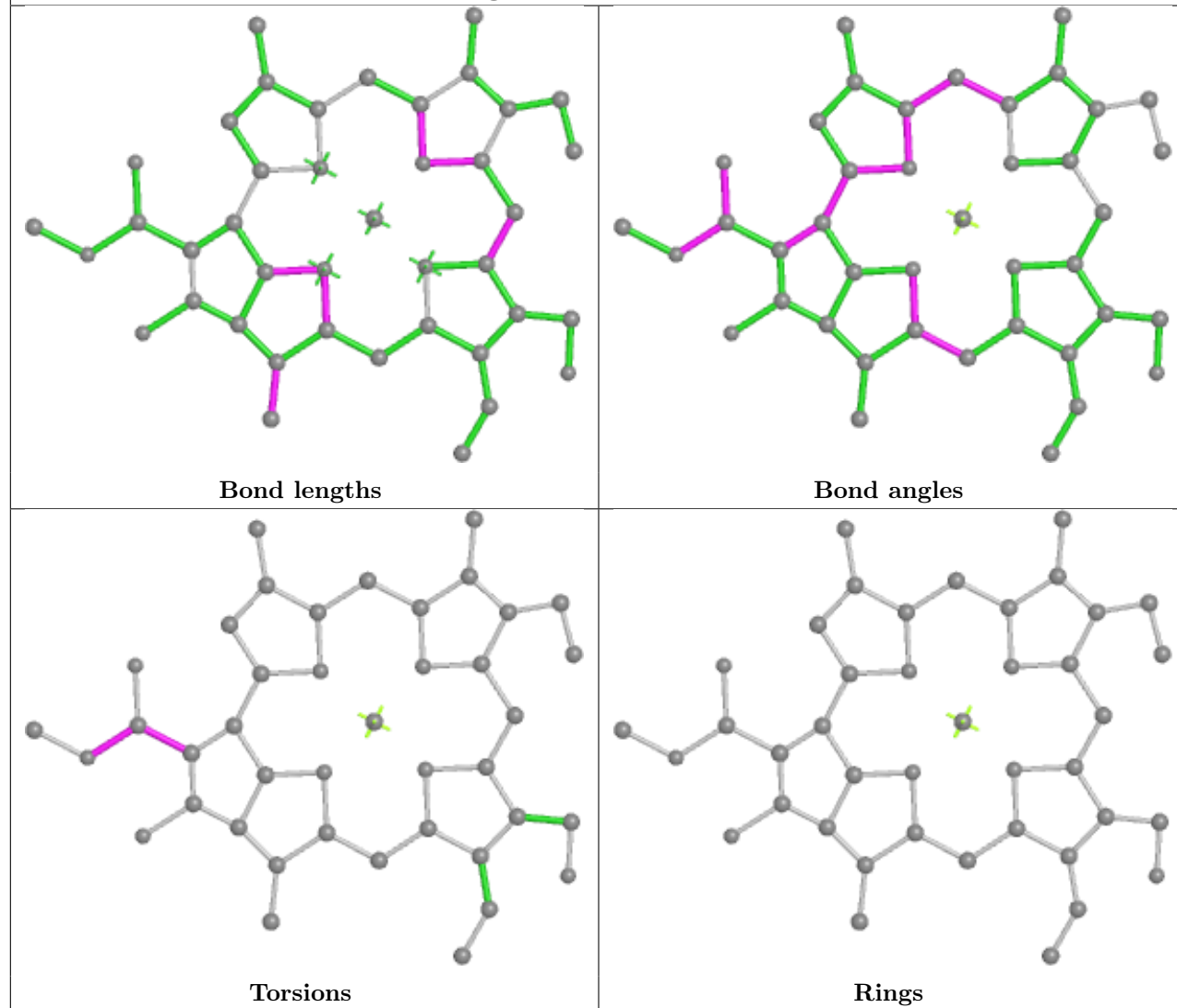
Ligand CLA G 612



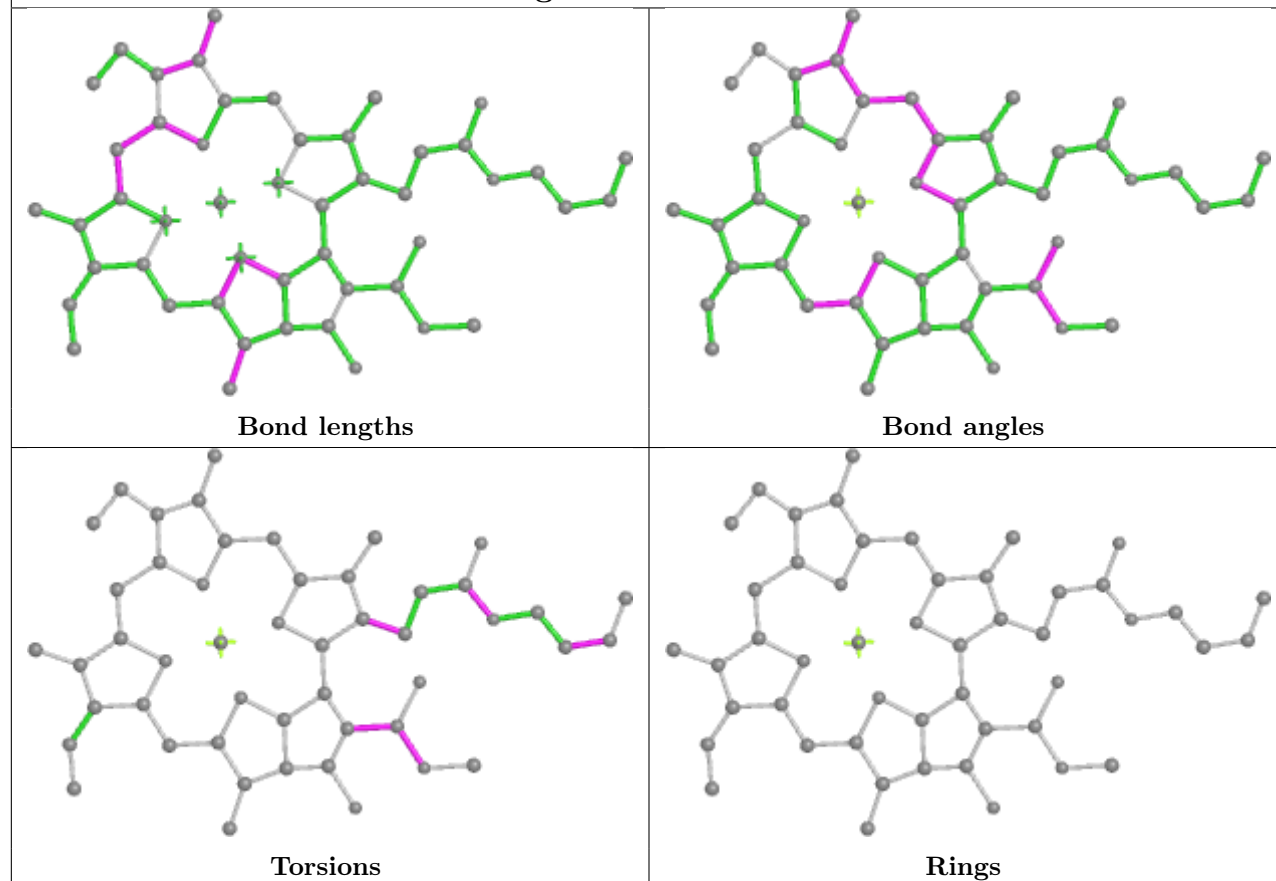
Ligand CLA YY 602



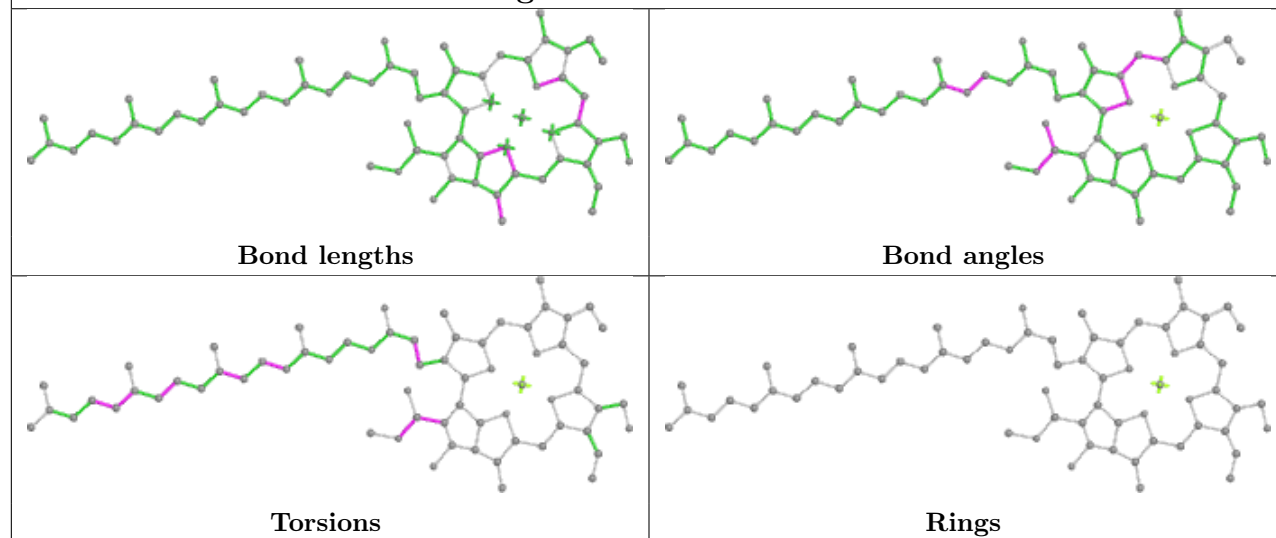
Ligand CHL 11 601



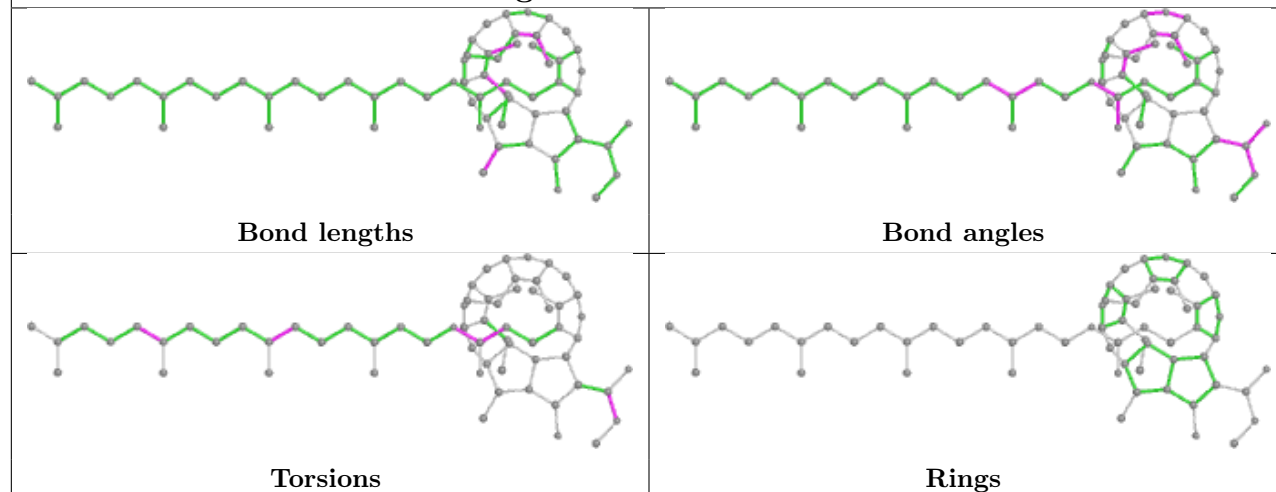
Ligand CLA n 613



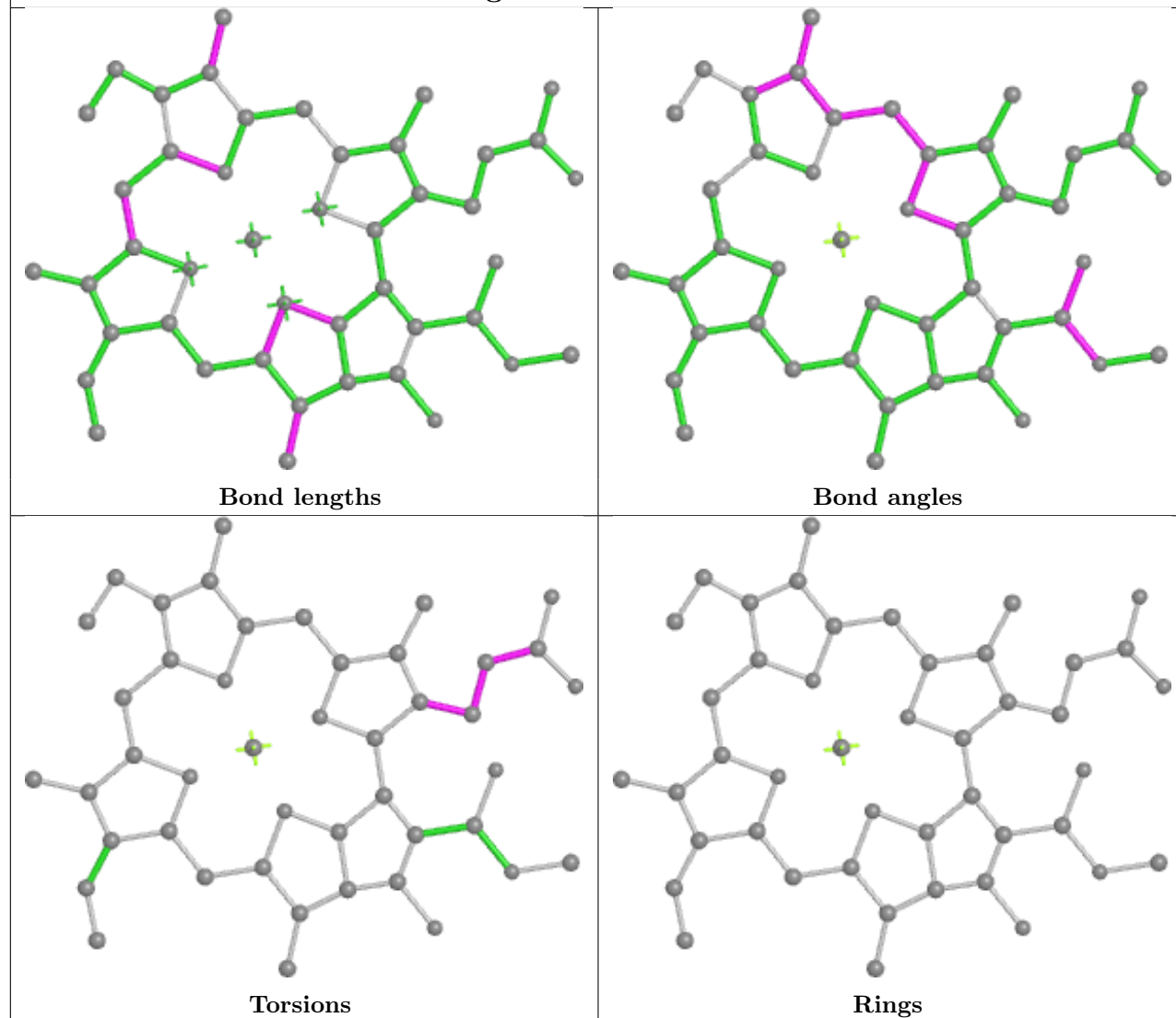
Ligand CHL NN 607

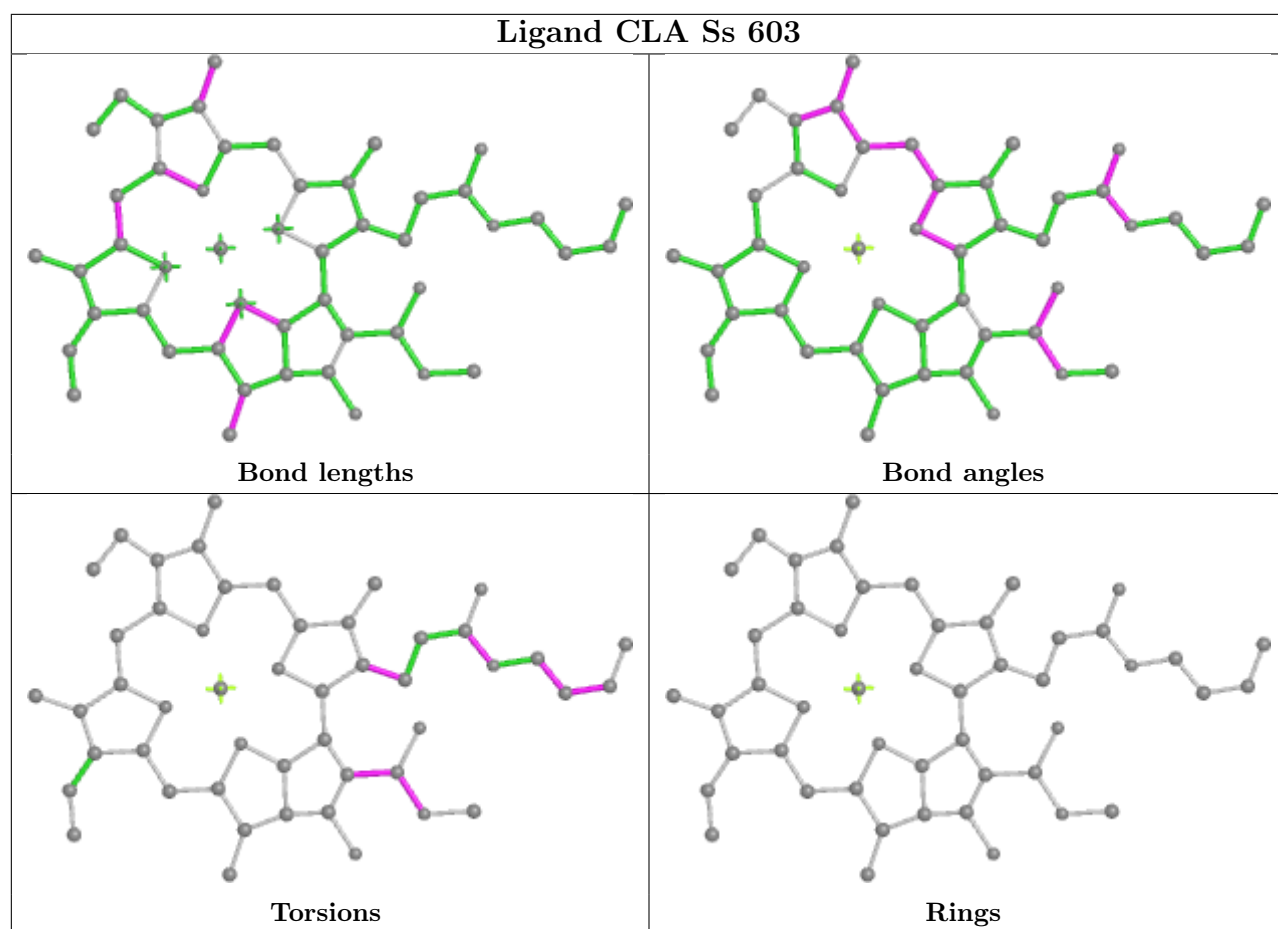


Ligand PHO AA 407

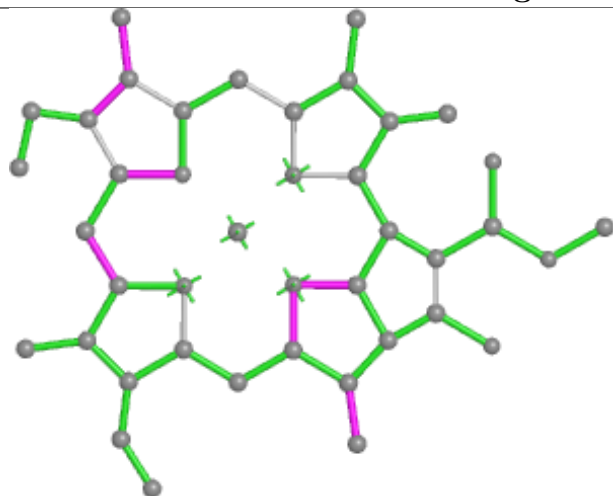


Ligand CLA 44 611

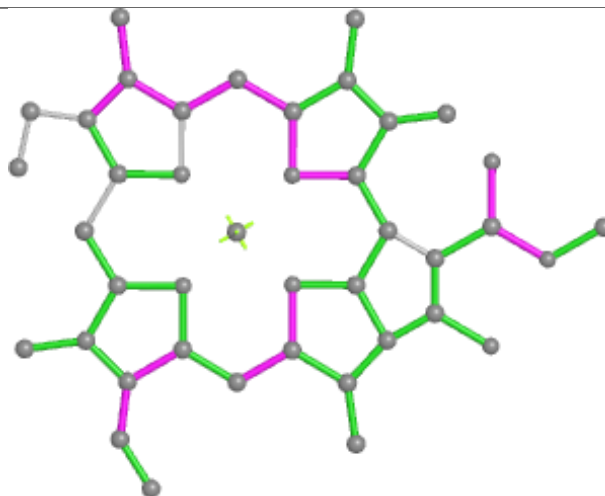




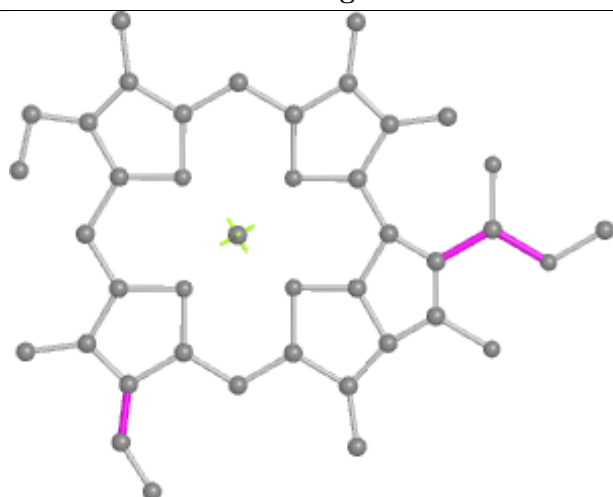
Ligand CLA R 613



Bond lengths



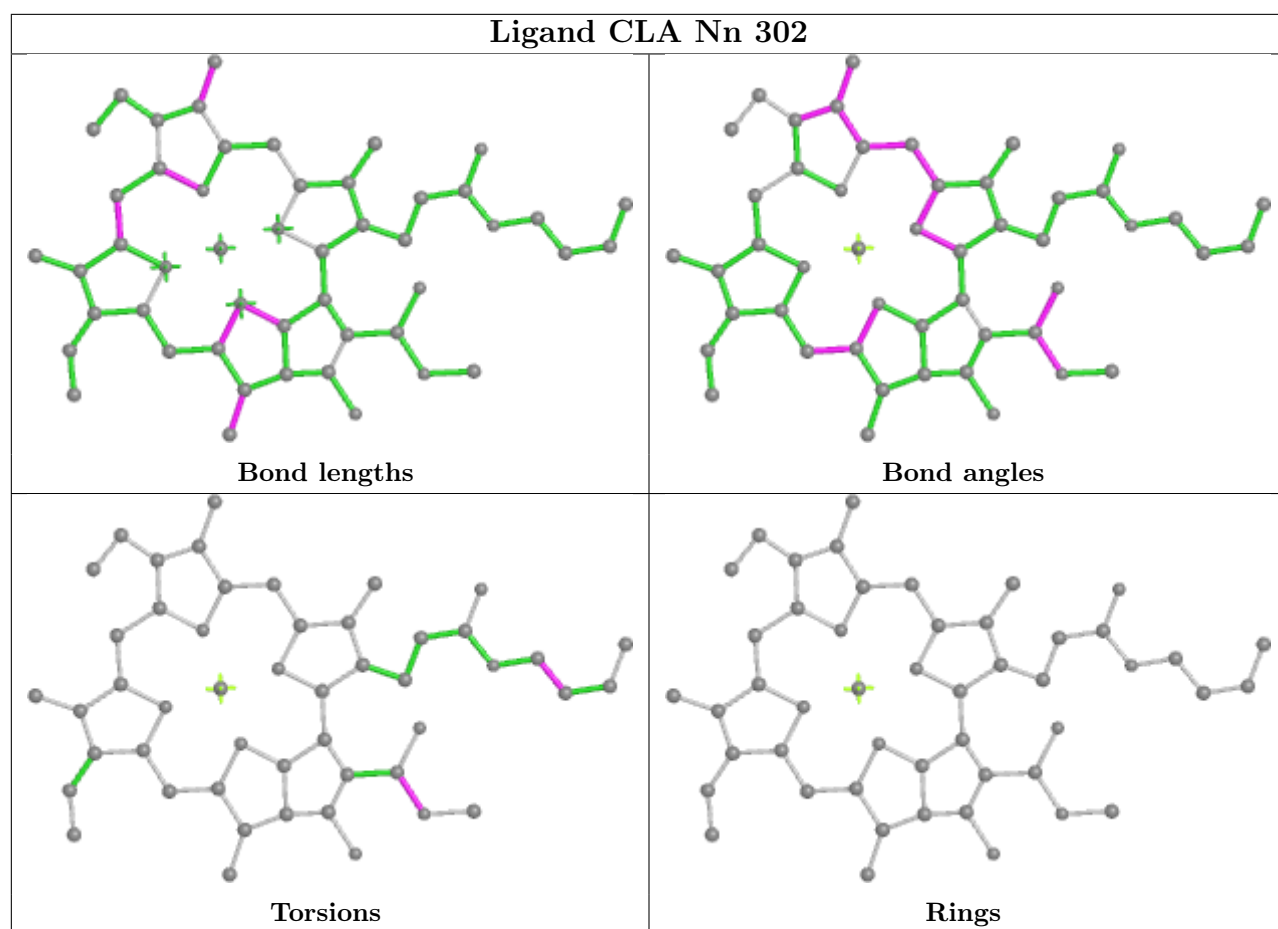
Bond angles

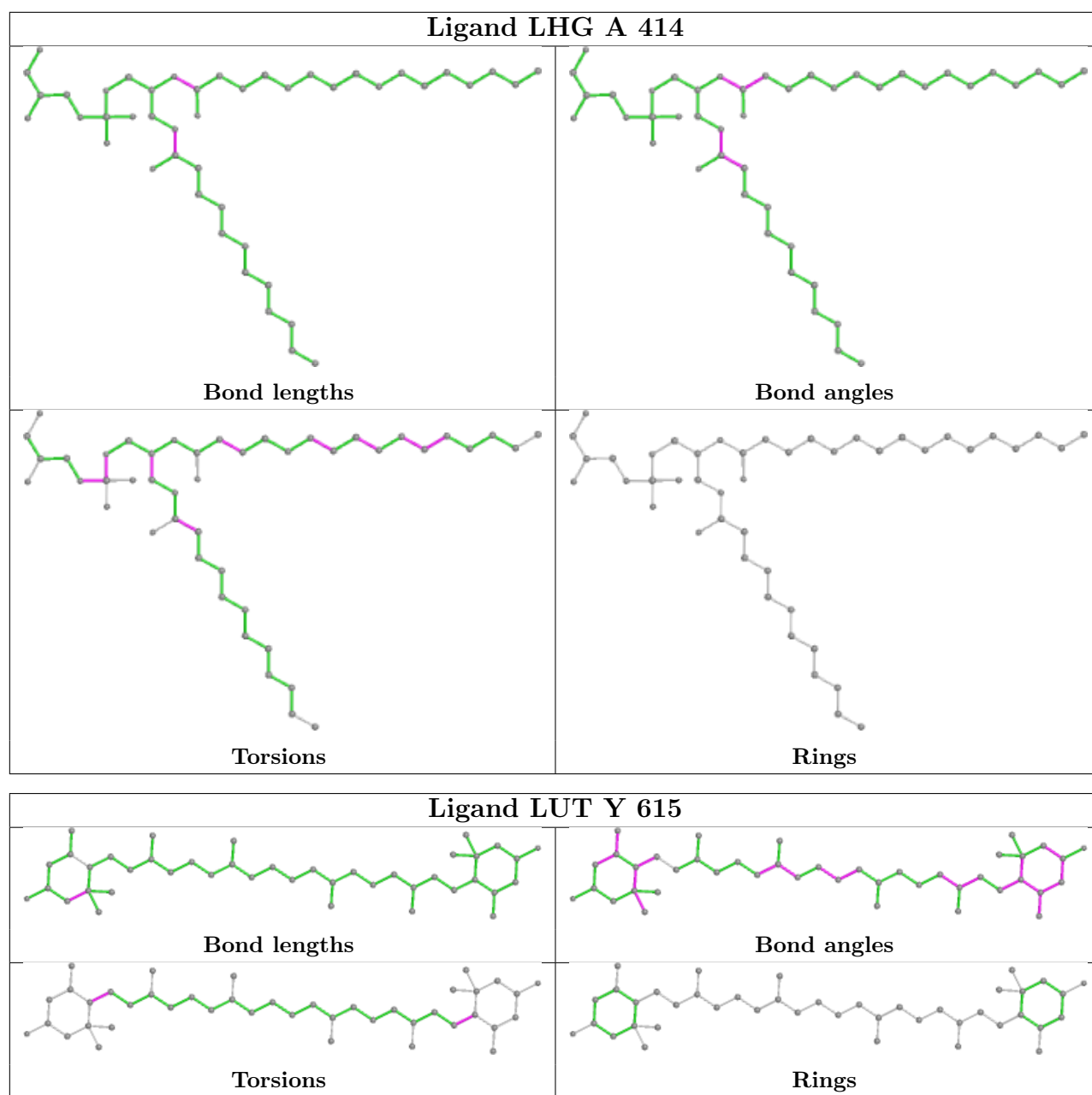


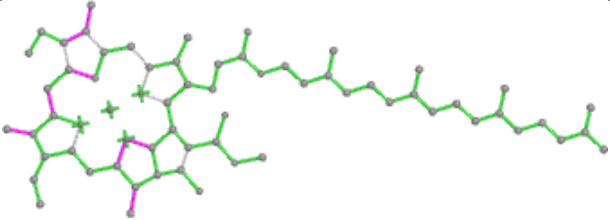
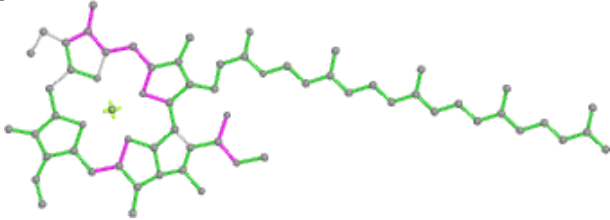
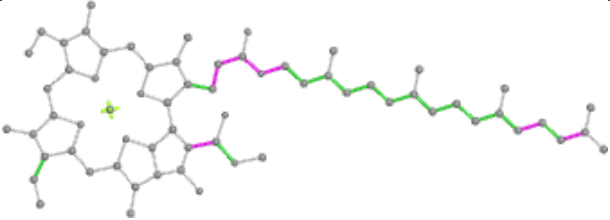
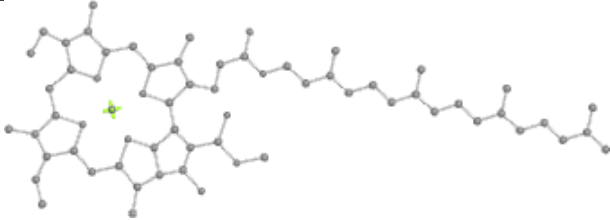
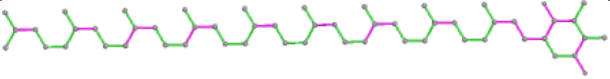
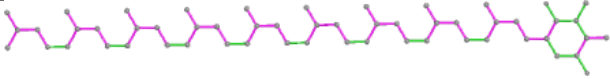
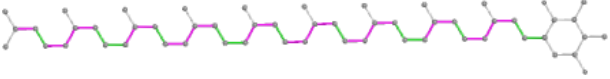
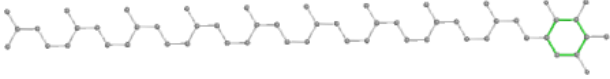
Torsions

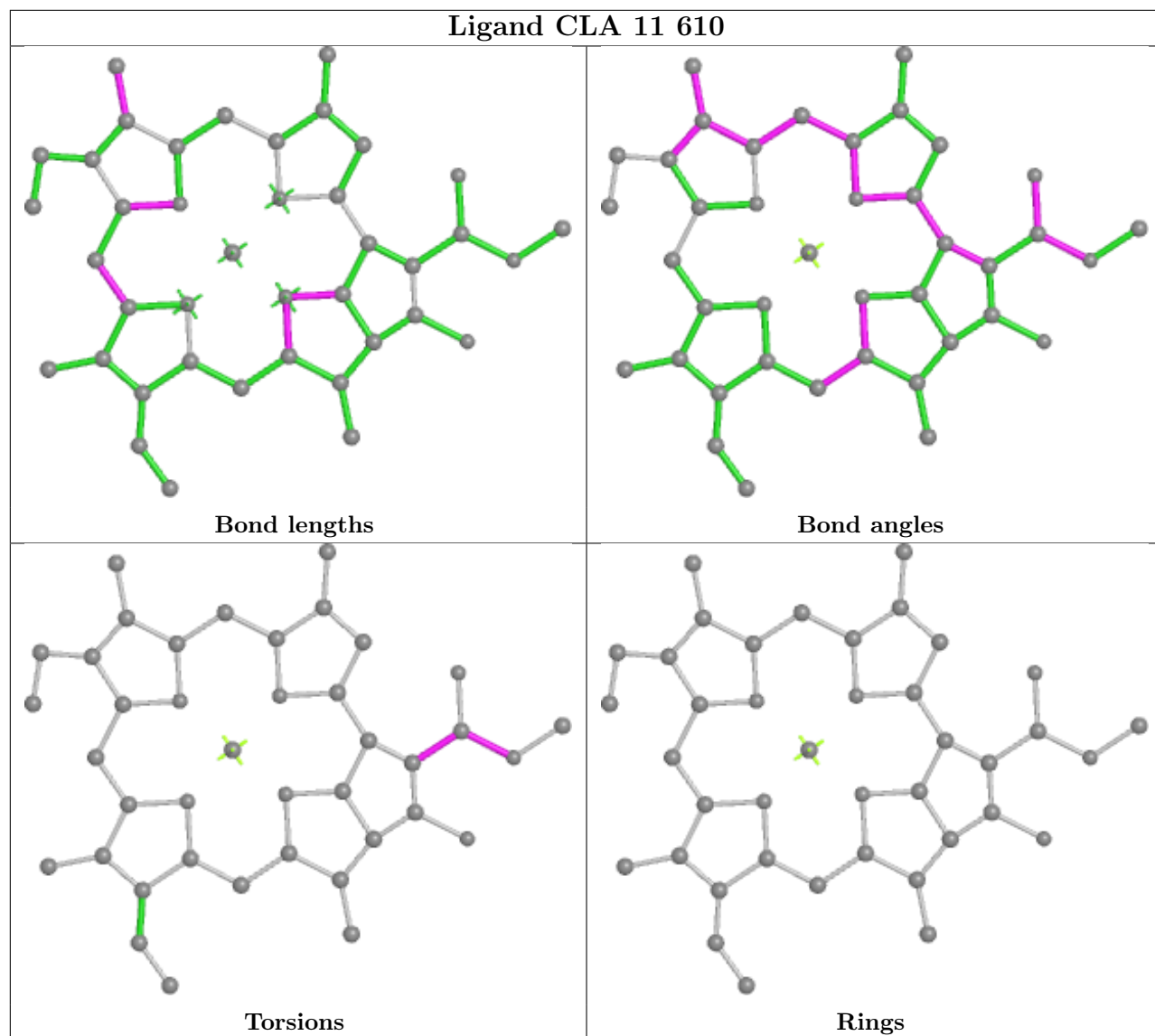


Rings

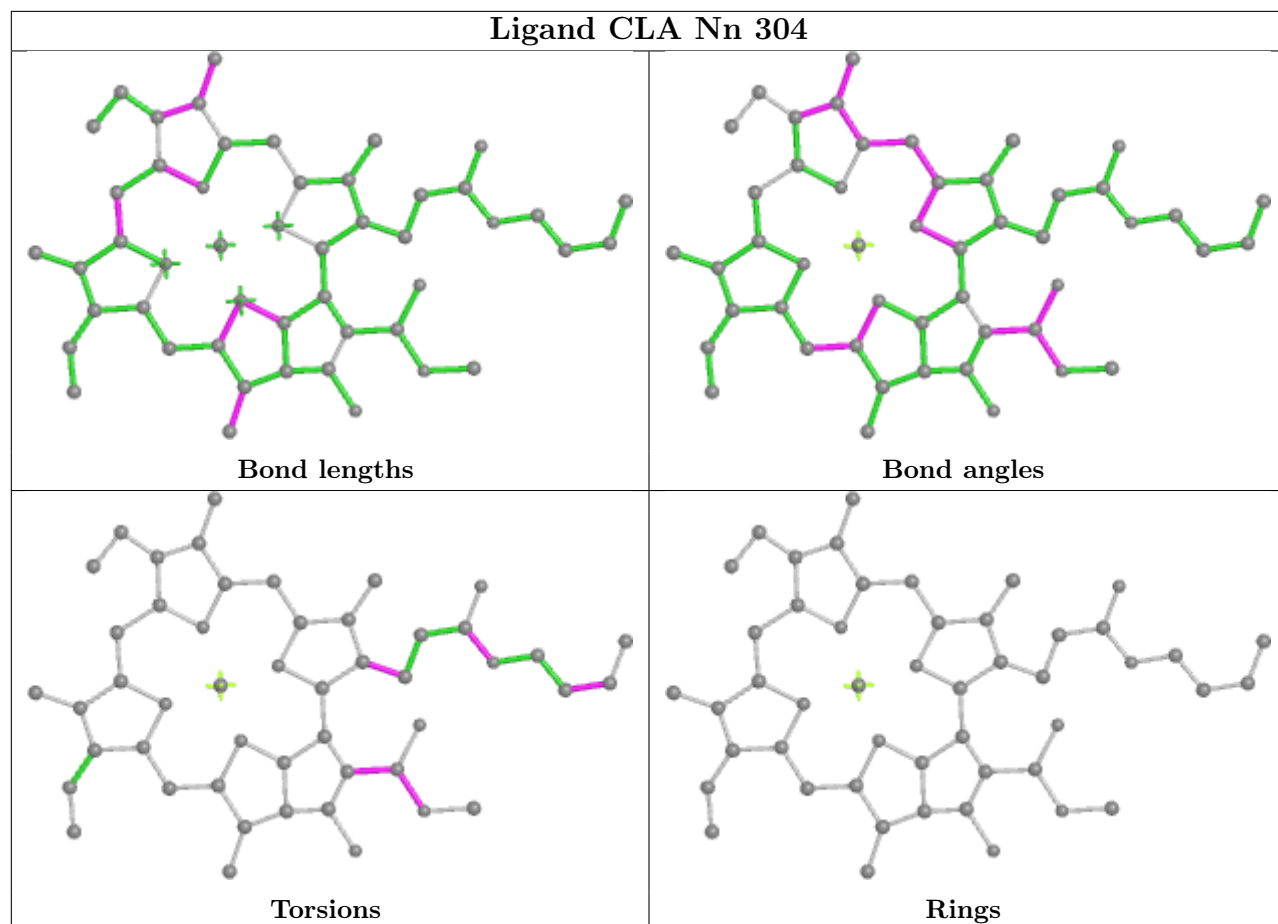




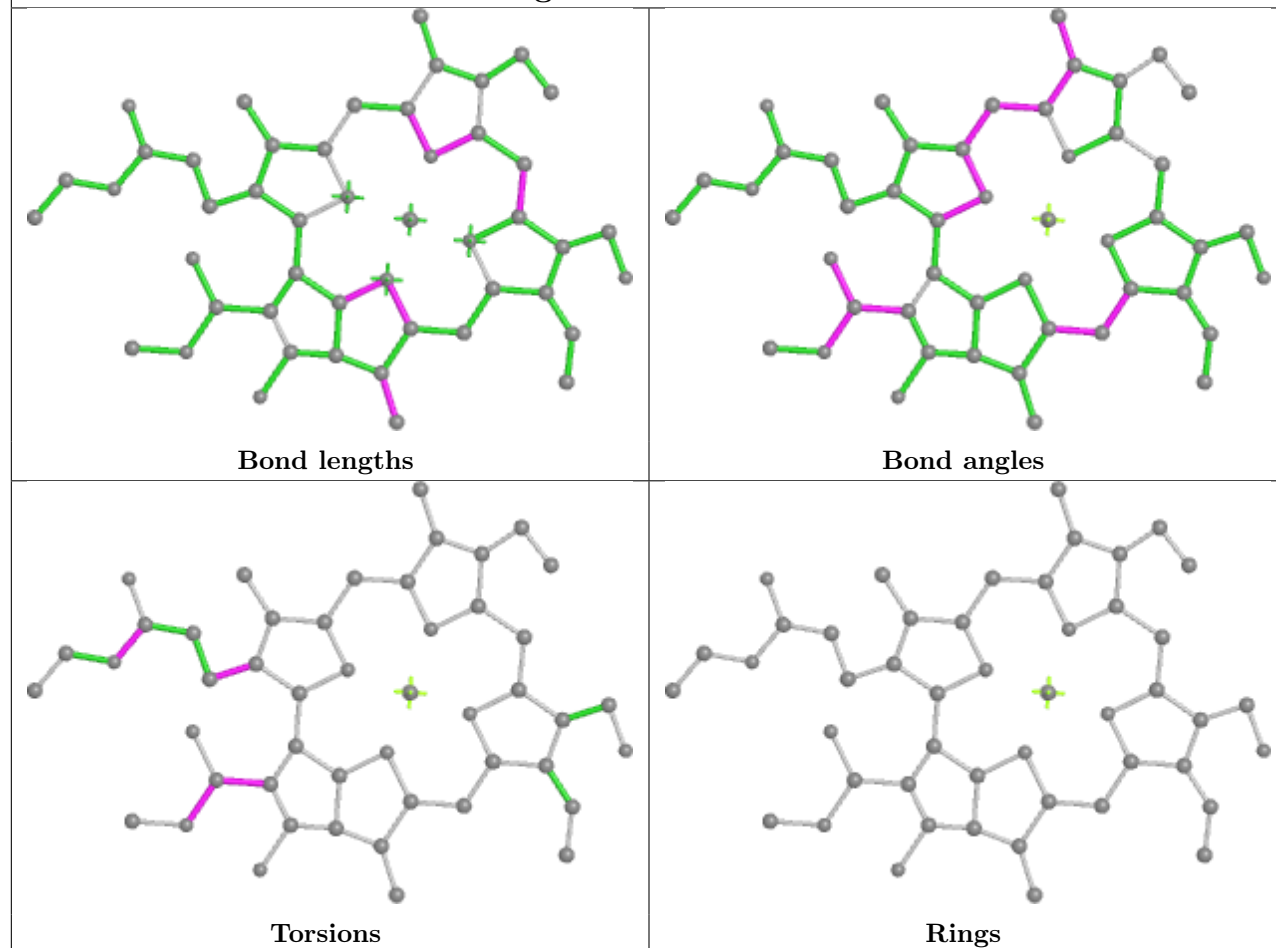
Ligand CLA c 505	
 <p>Bond lengths</p>	 <p>Bond angles</p>
 <p>Torsions</p>	 <p>Rings</p>
Ligand PL9 d 404	
 <p>Bond lengths</p>	 <p>Bond angles</p>
 <p>Torsions</p>	 <p>Rings</p>



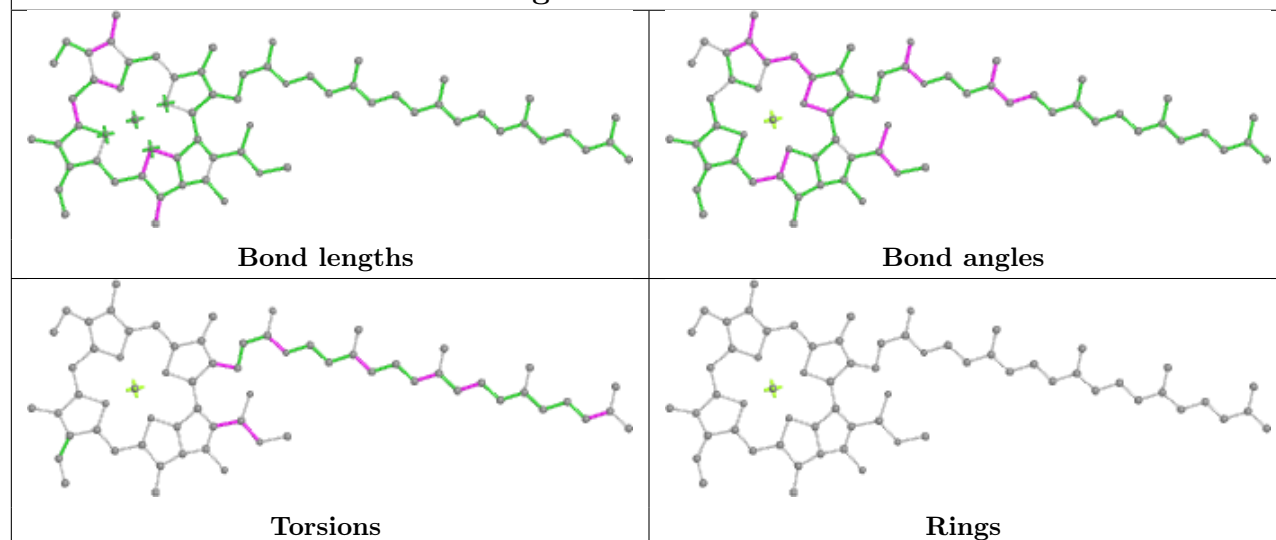
Ligand CLA Nn 304

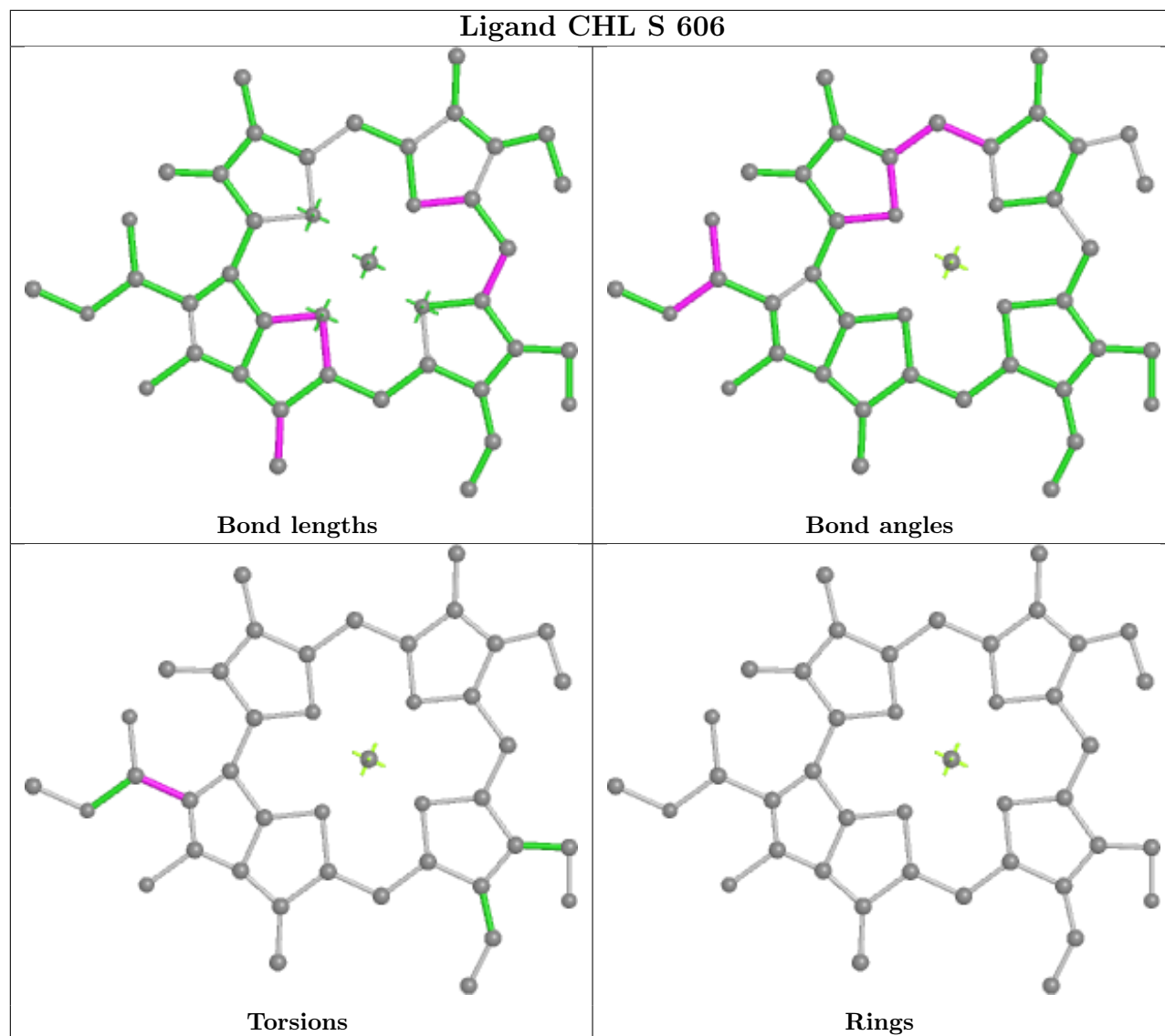
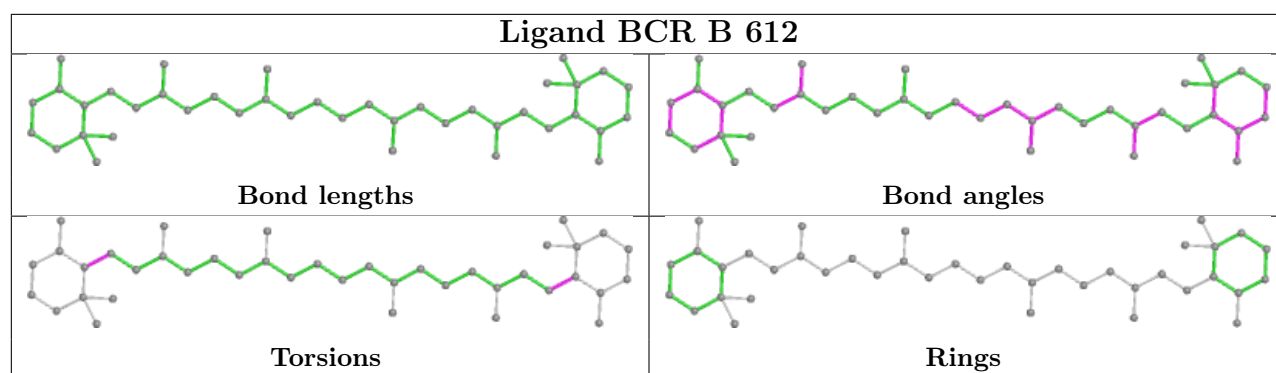


Ligand CHL n 605

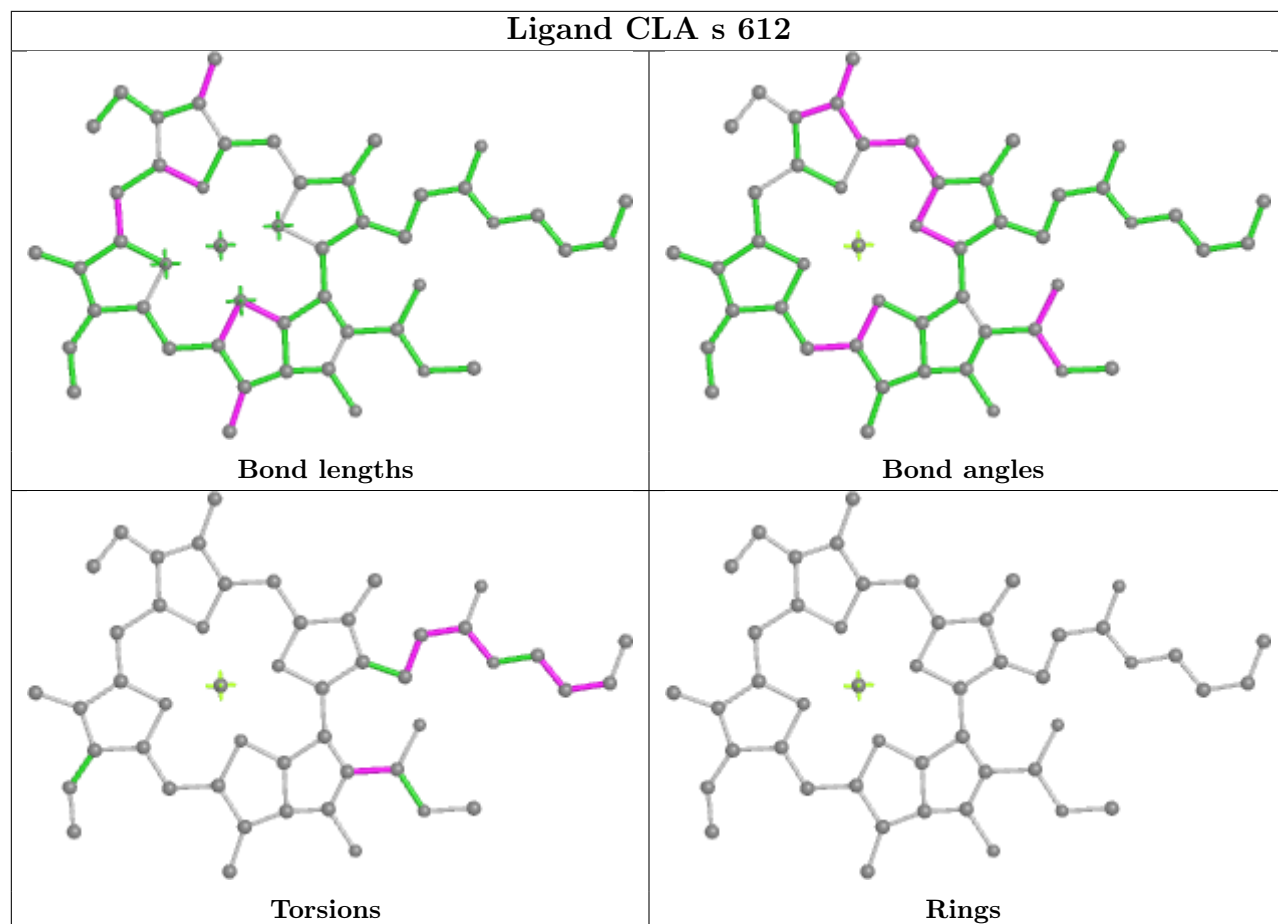


Ligand CLA C 505

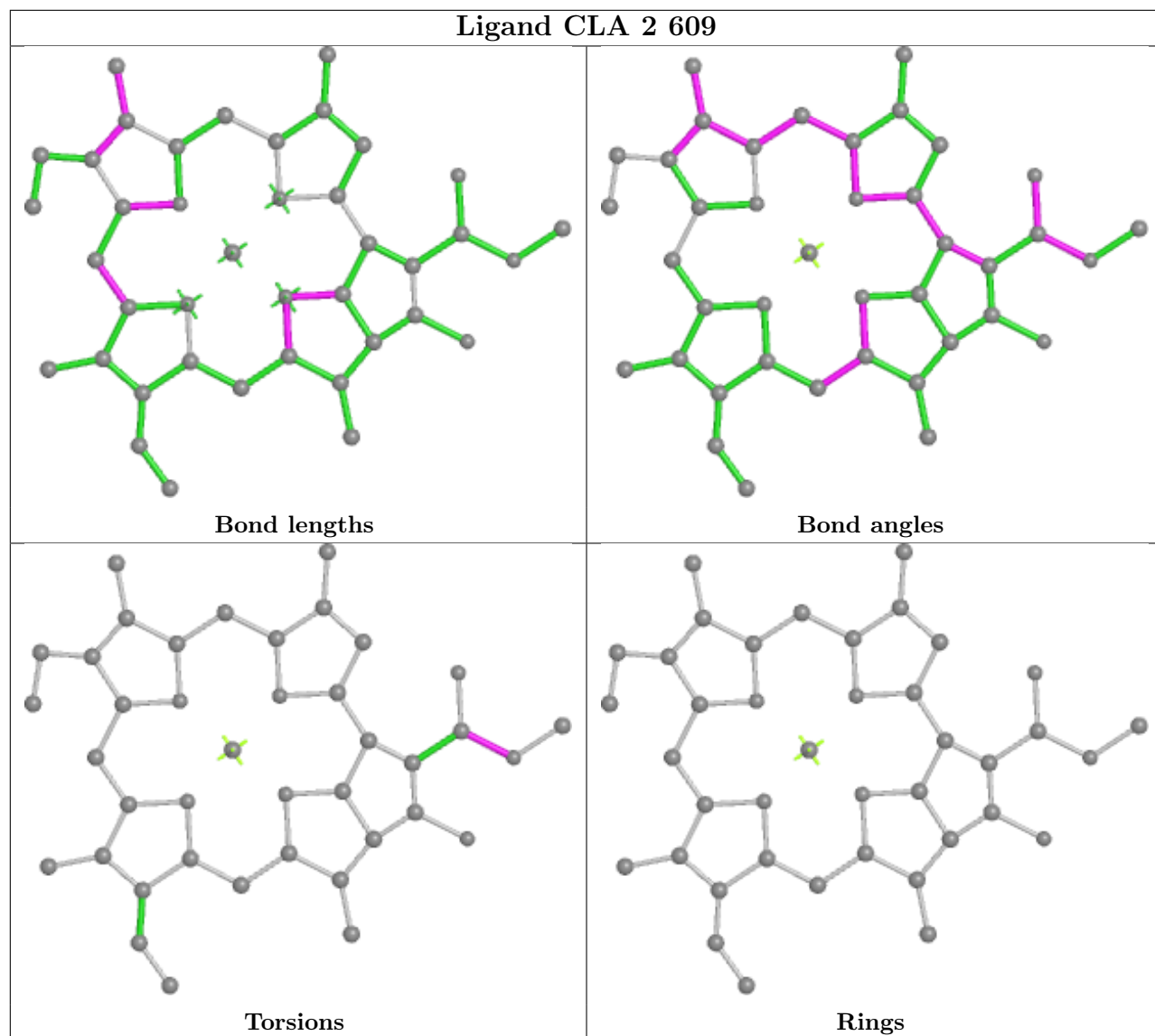




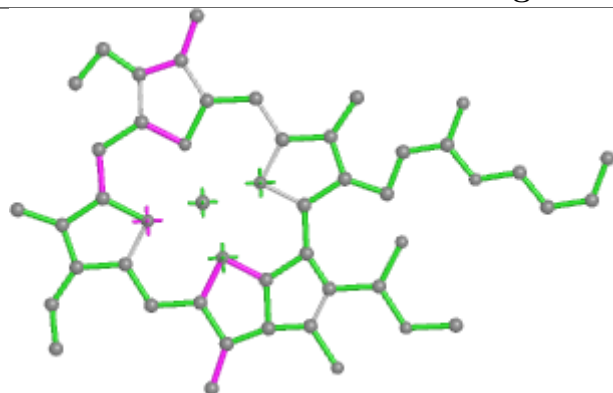
Ligand CLA s 612



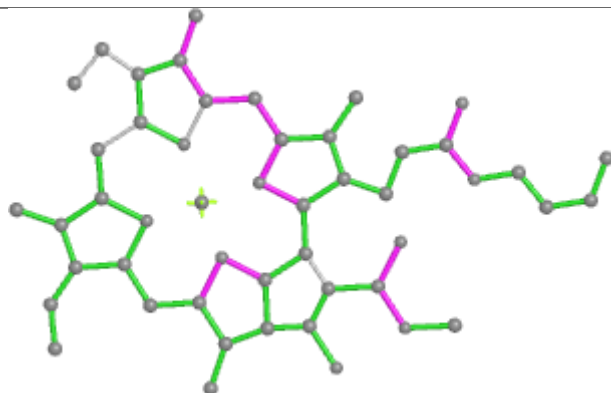
Ligand CLA 2 609



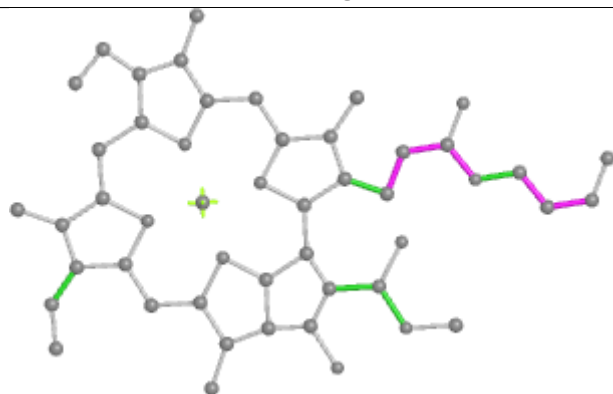
Ligand CLA G 610



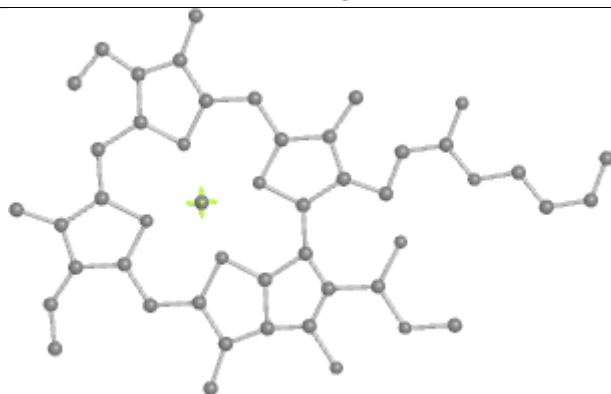
Bond lengths



Bond angles

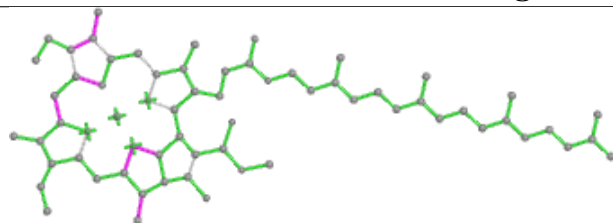


Torsions

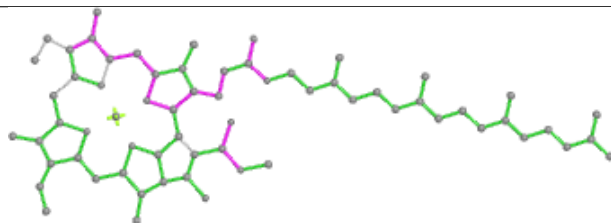


Rings

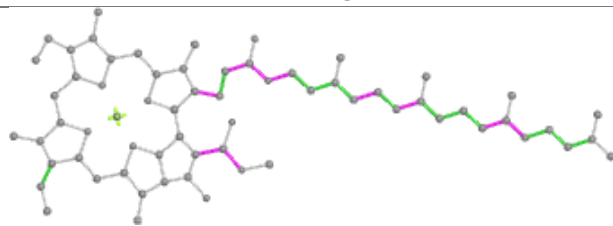
Ligand CLA Y 610



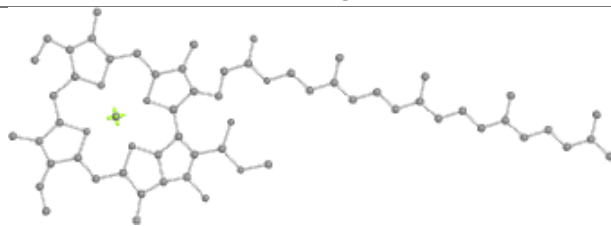
Bond lengths



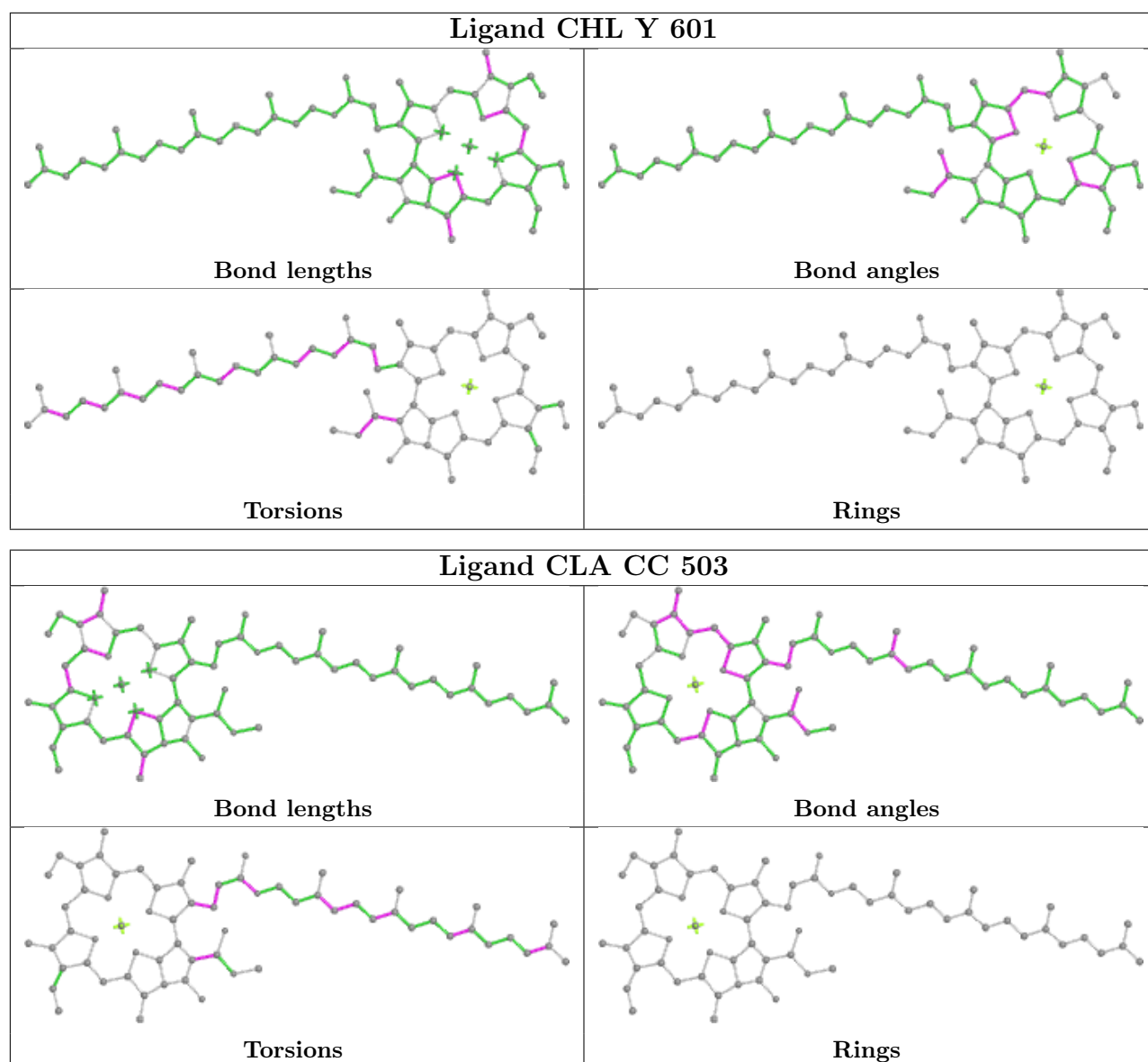
Bond angles

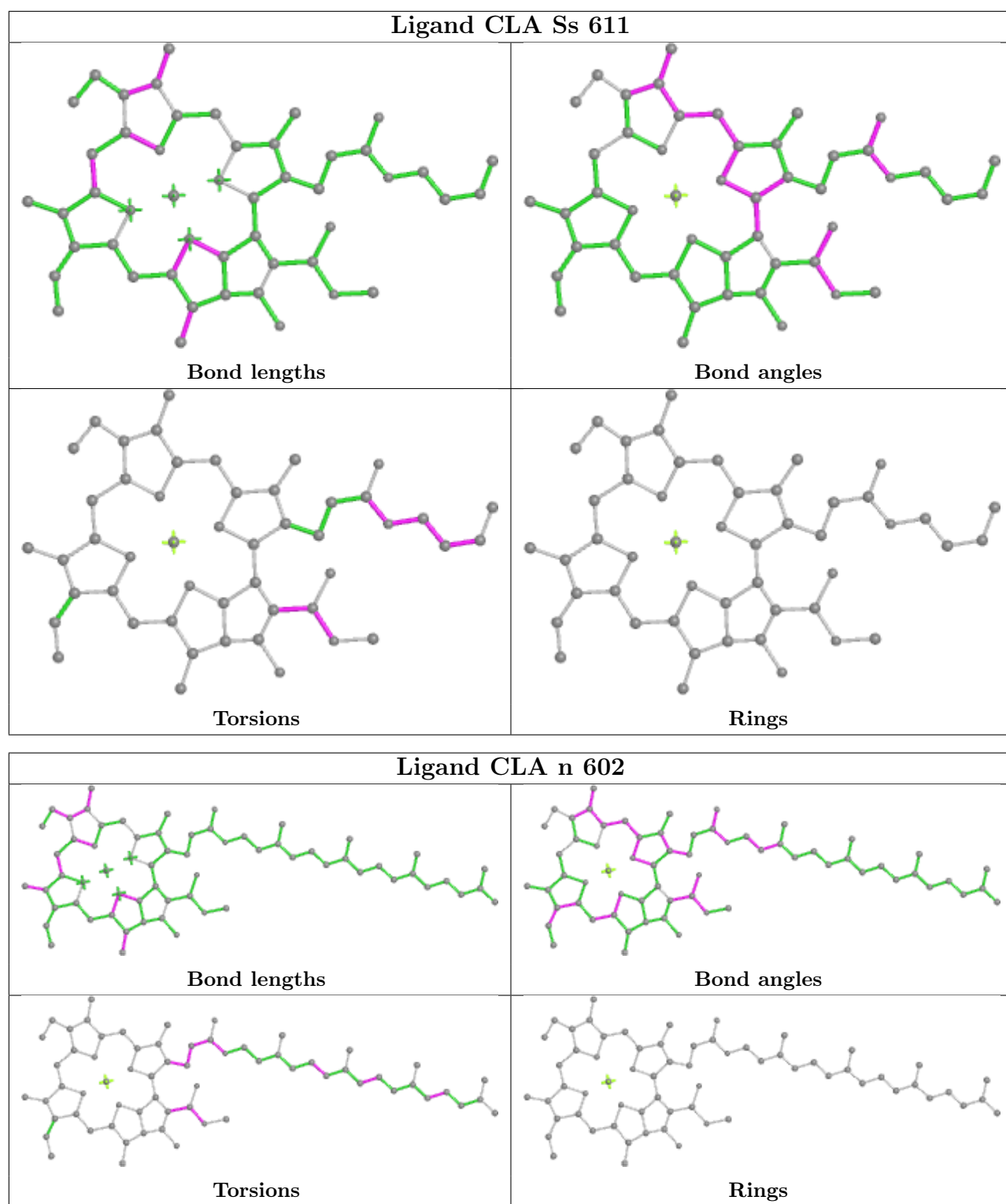


Torsions

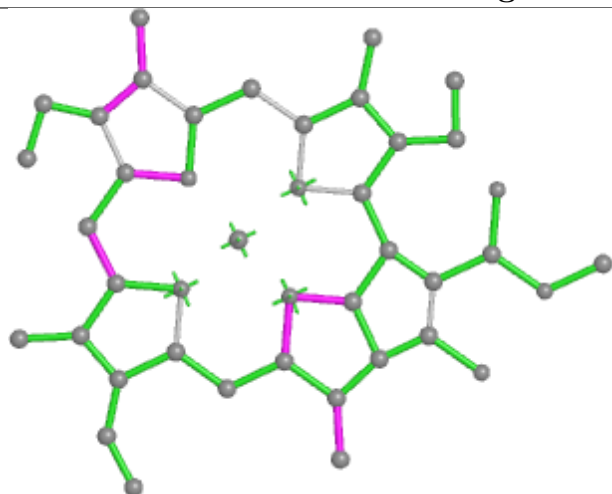


Rings

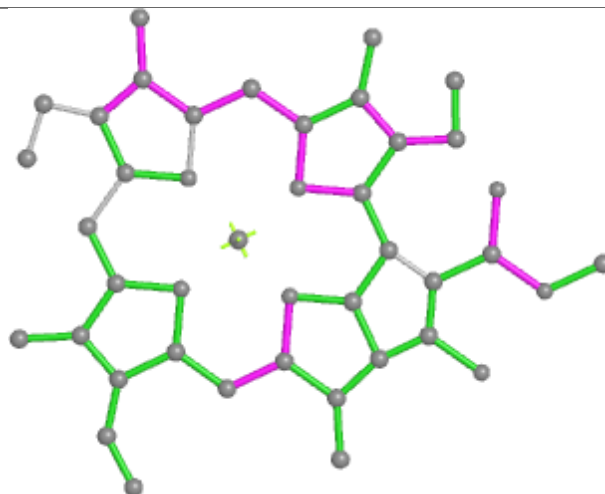




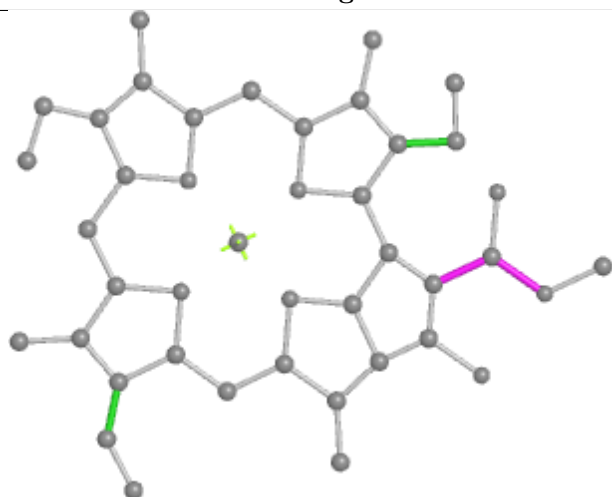
Ligand CLA NN 603



Bond lengths



Bond angles

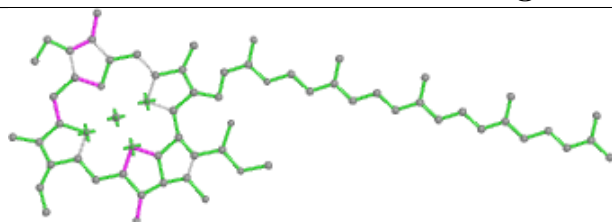


Torsions

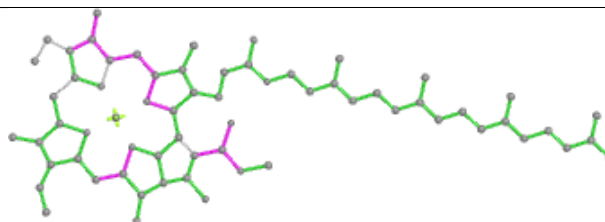


Rings

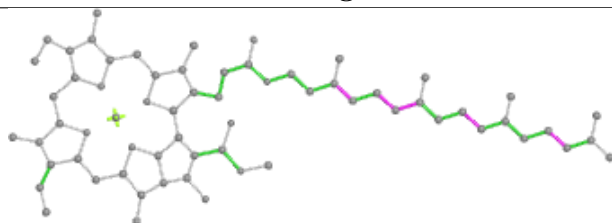
Ligand CLA b 611



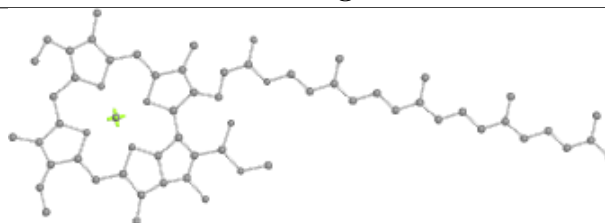
Bond lengths



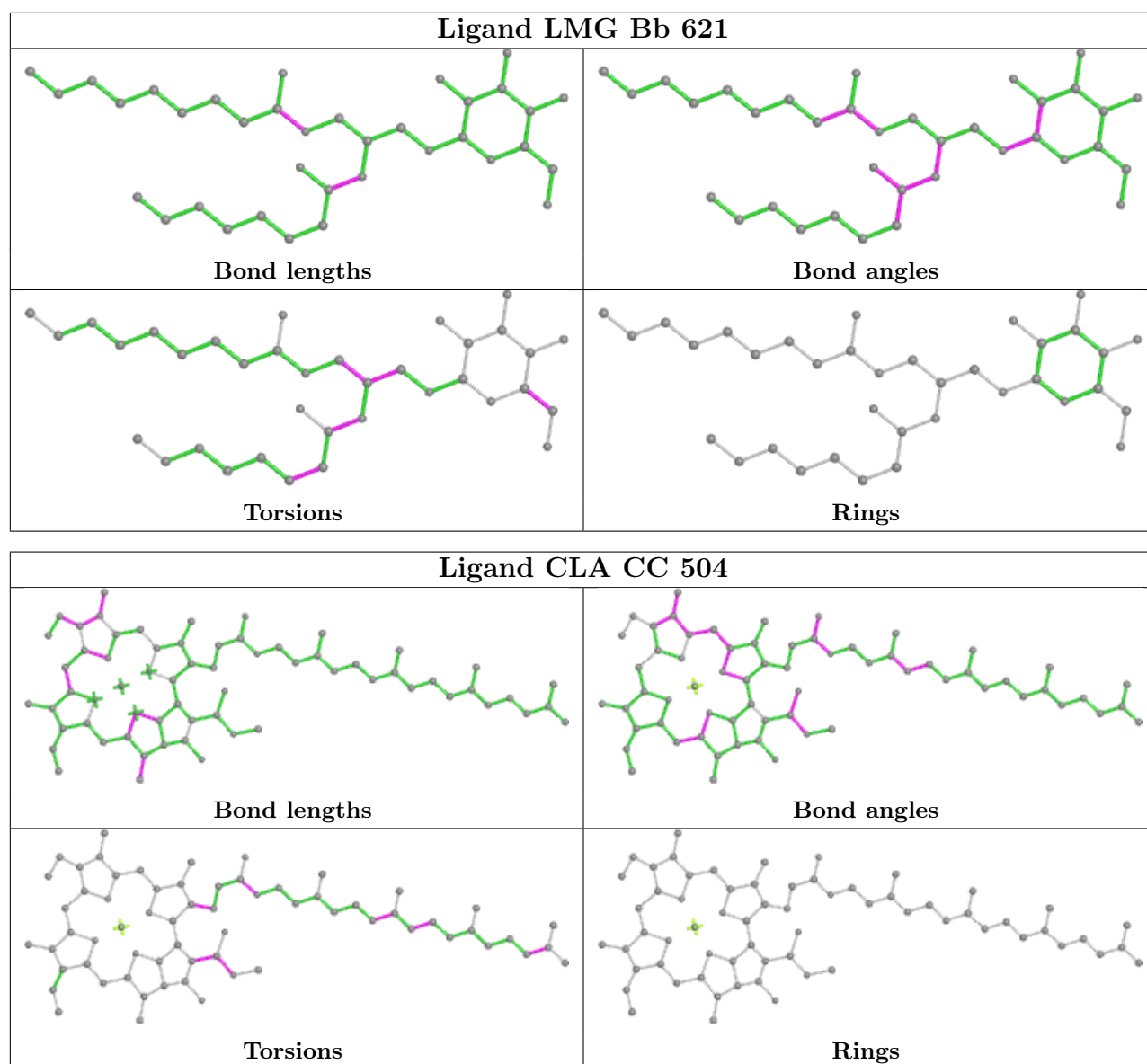
Bond angles

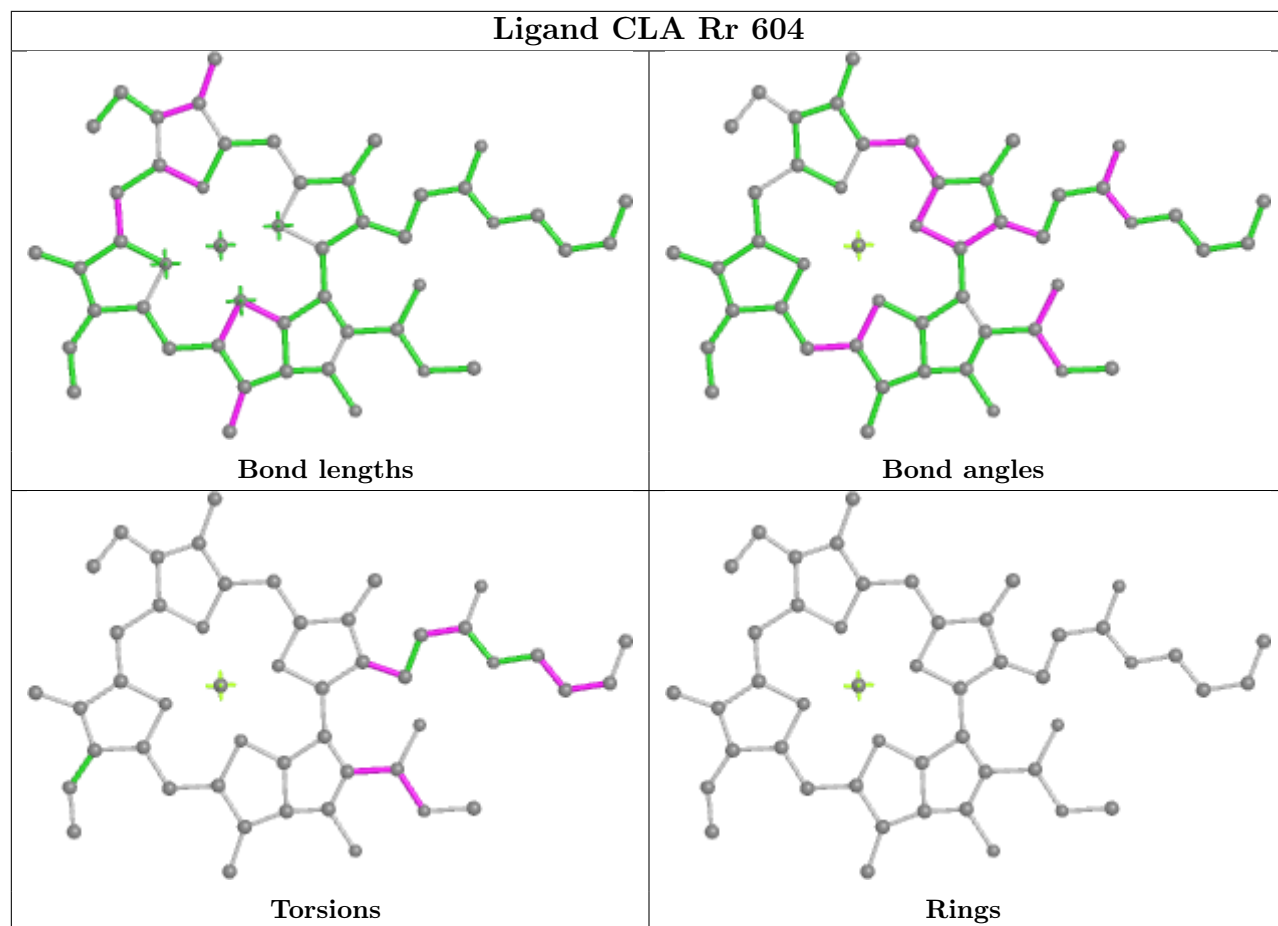


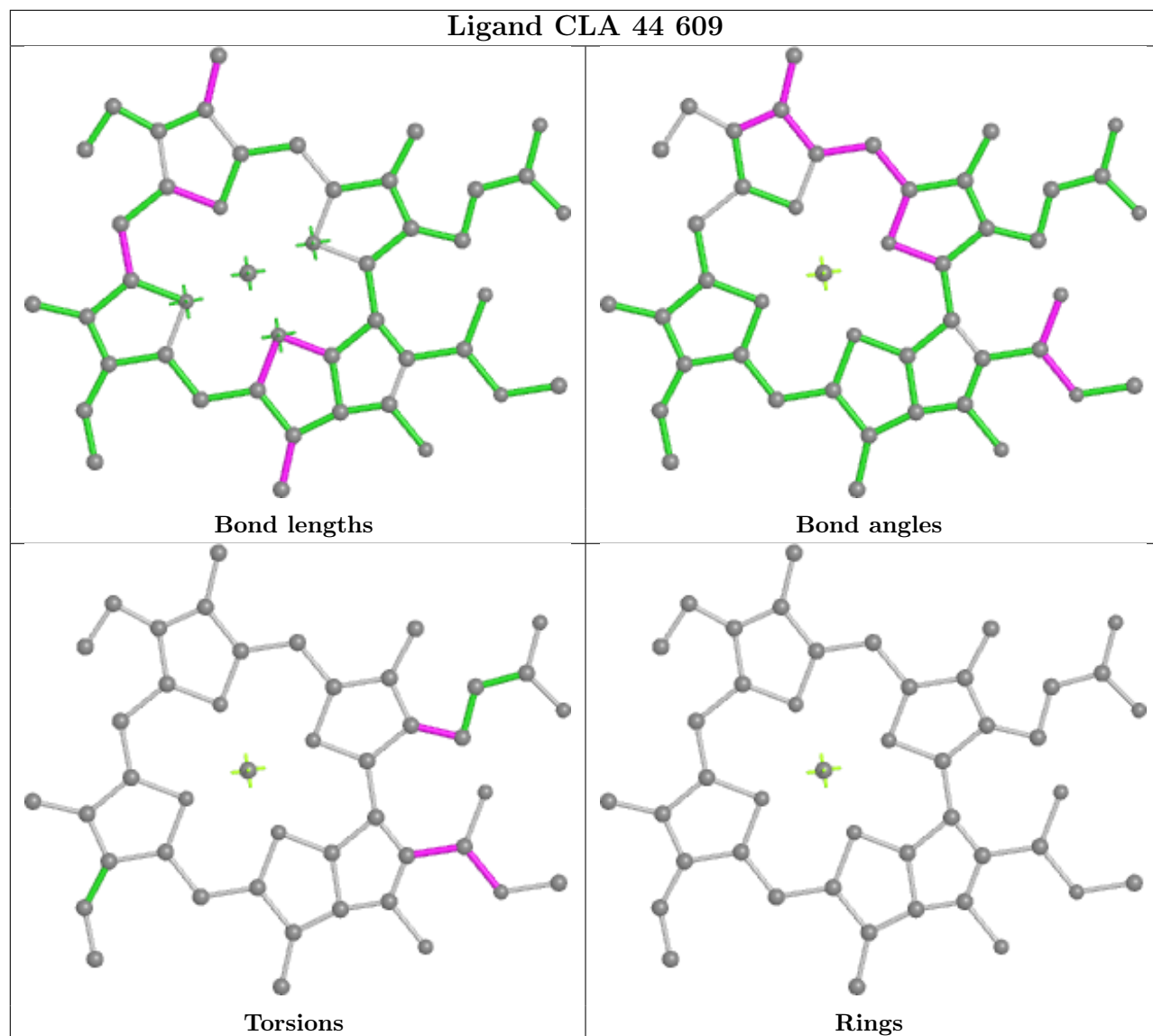
Torsions

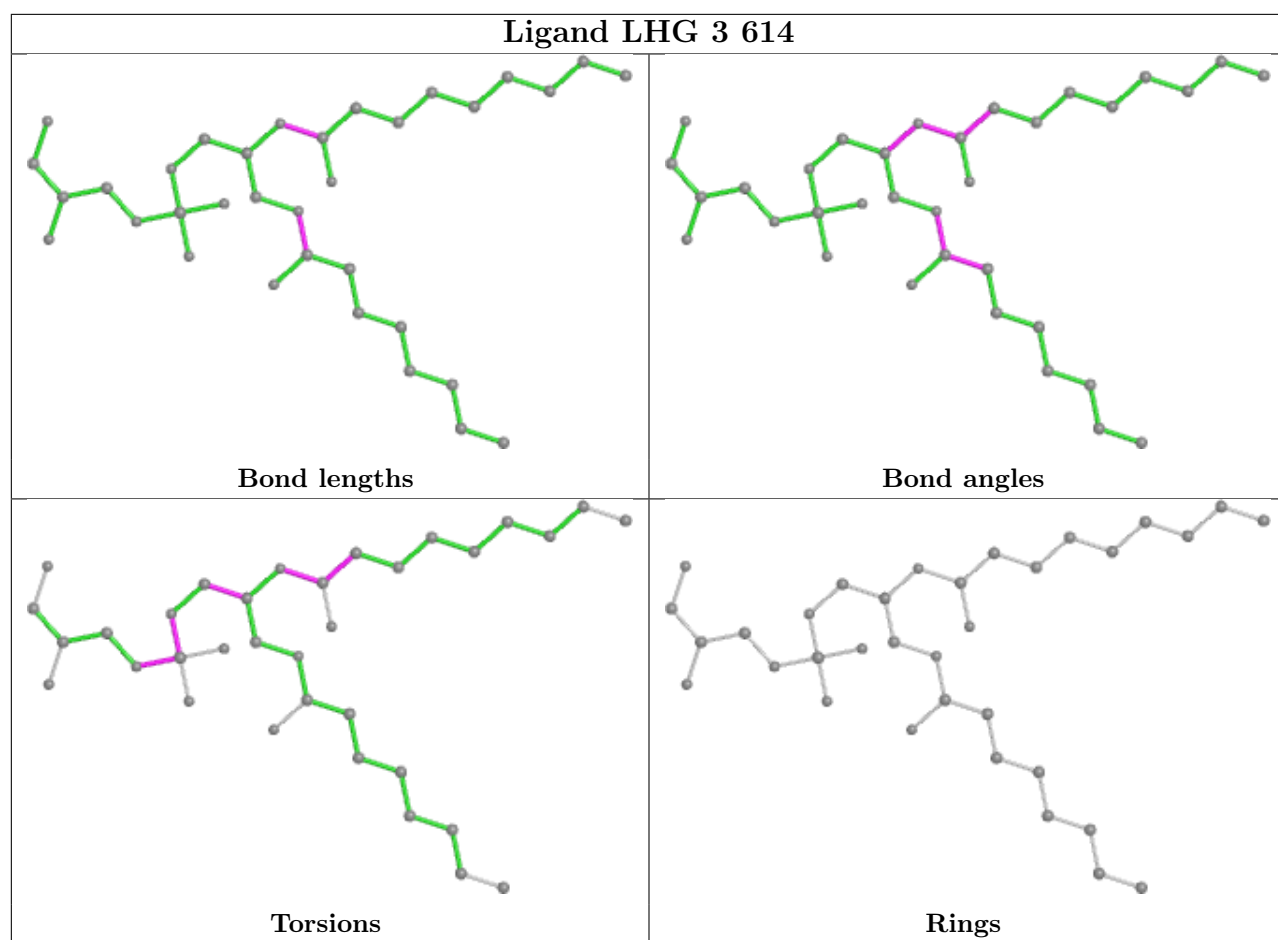


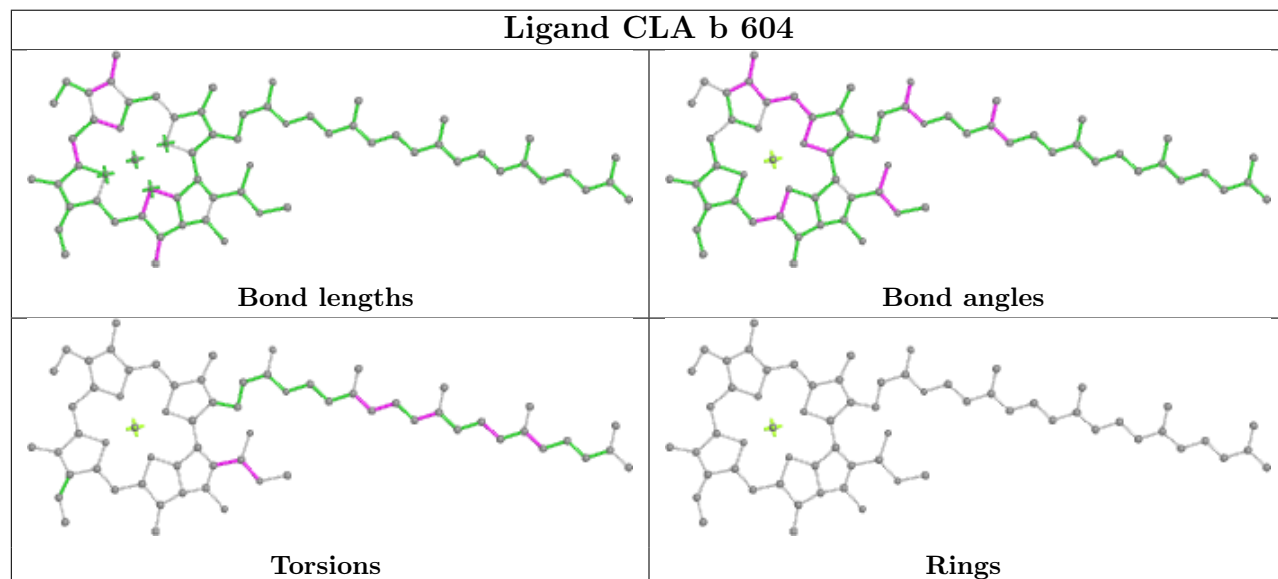
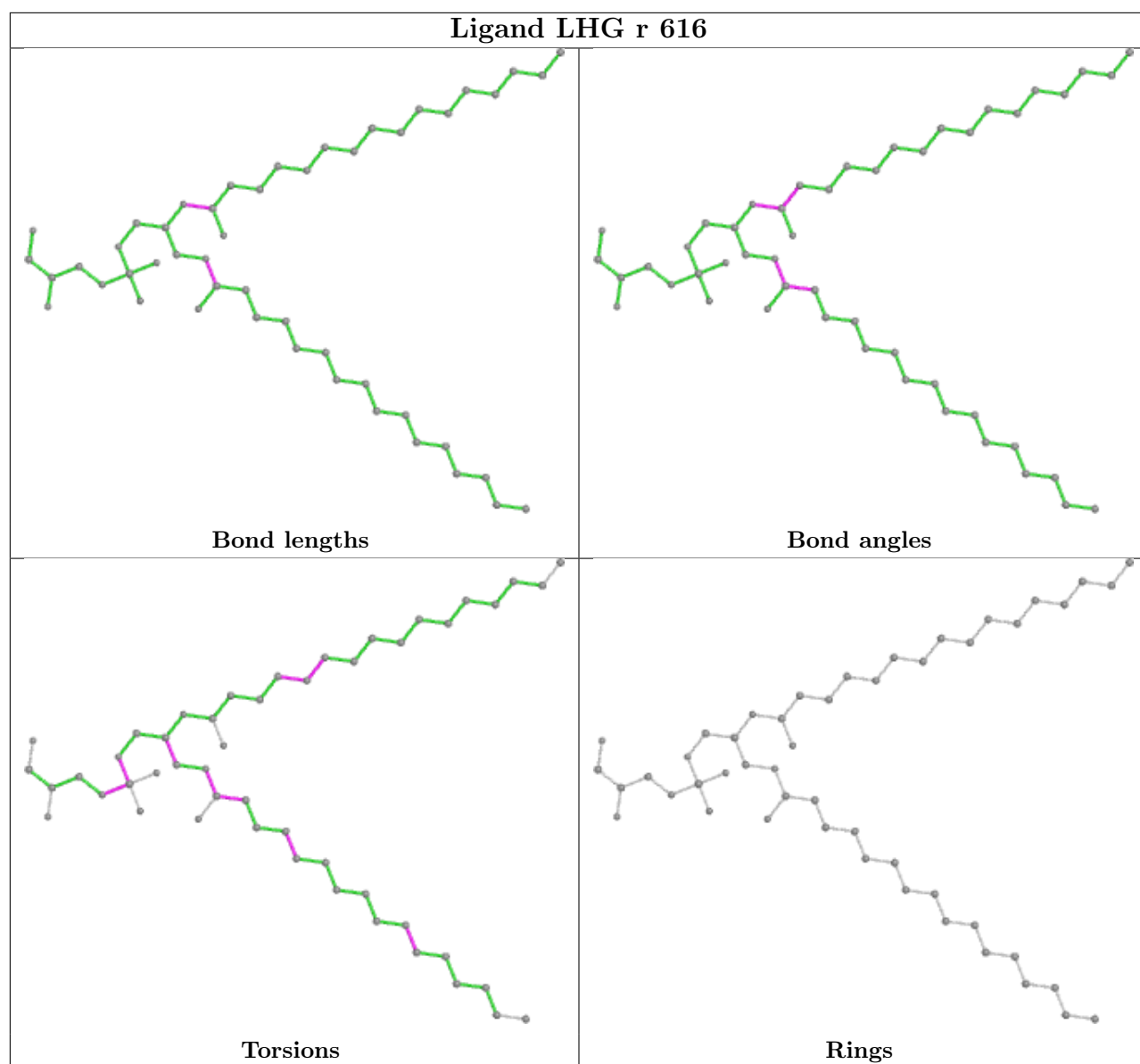
Rings

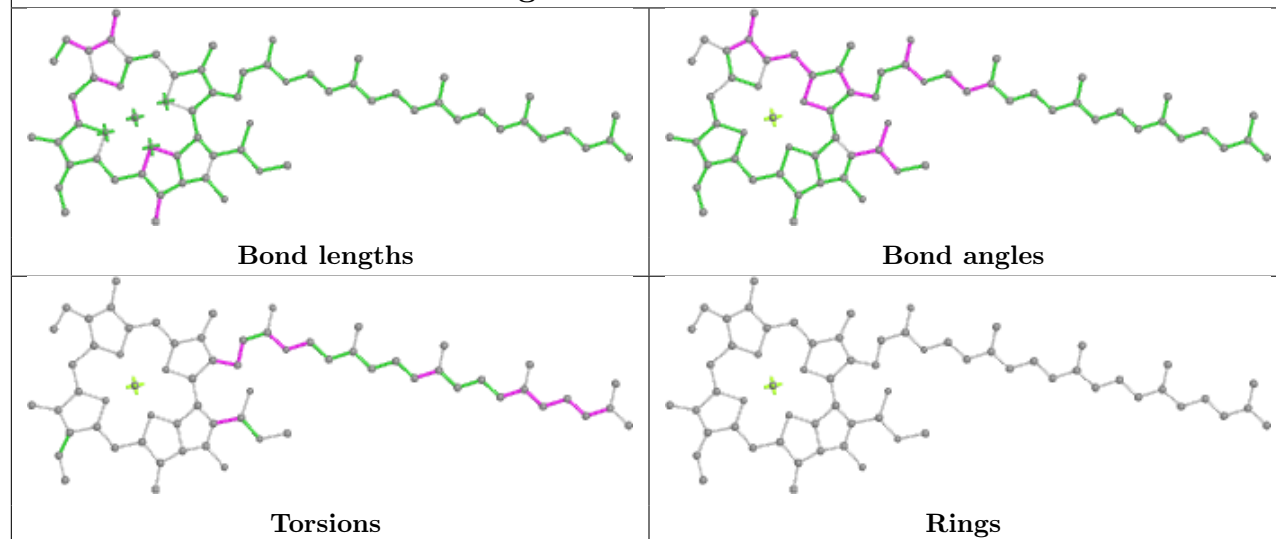
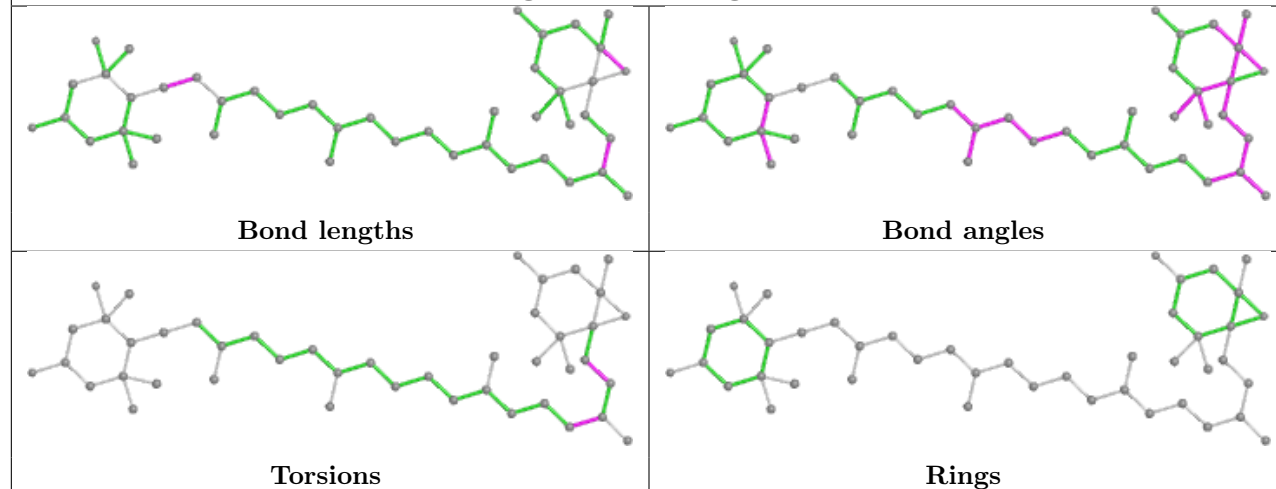
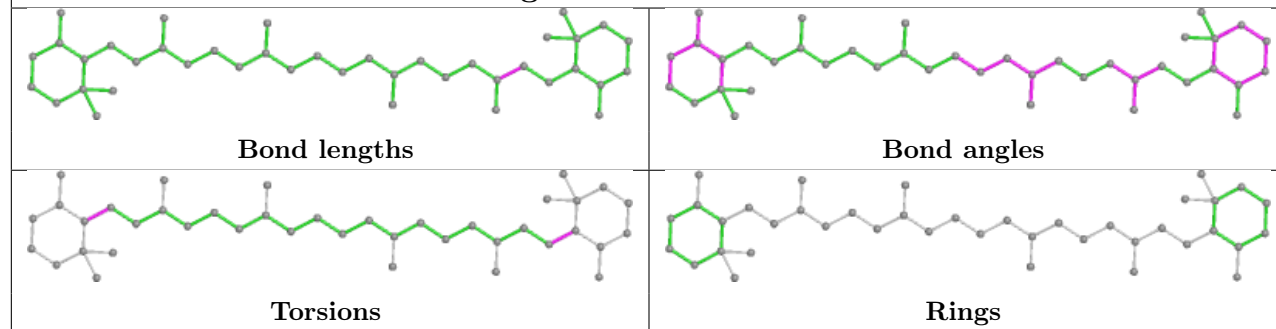




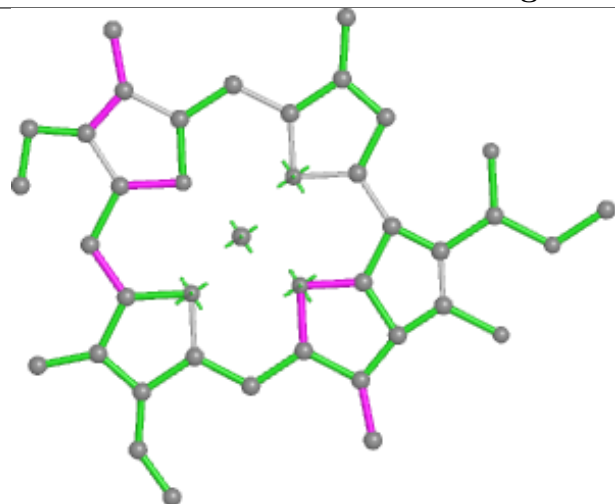




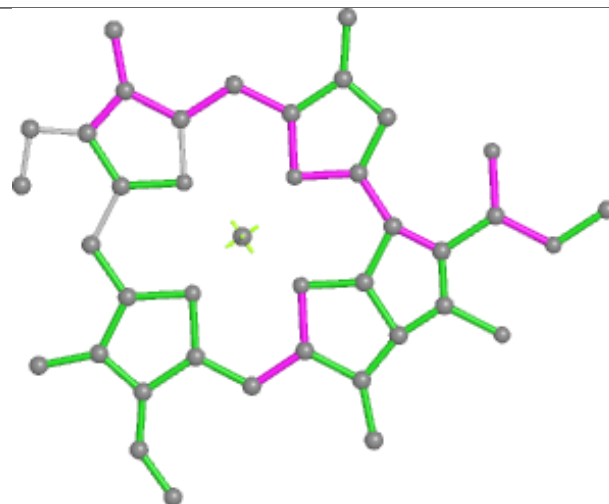


Ligand CLA RR 302**Ligand NEX Gg 318****Ligand BCR Bb 618**

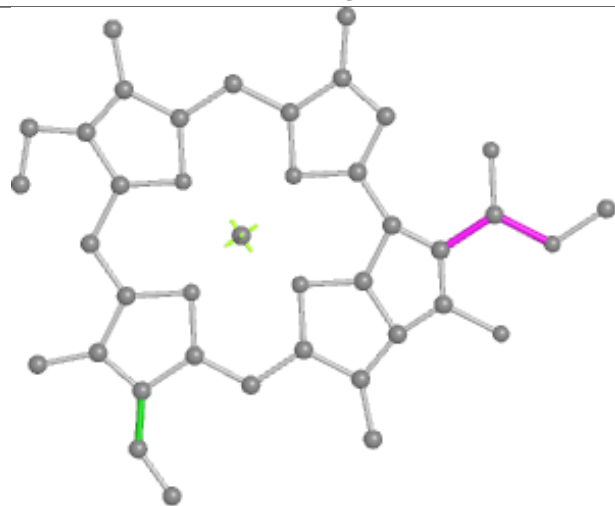
Ligand CLA 3 612



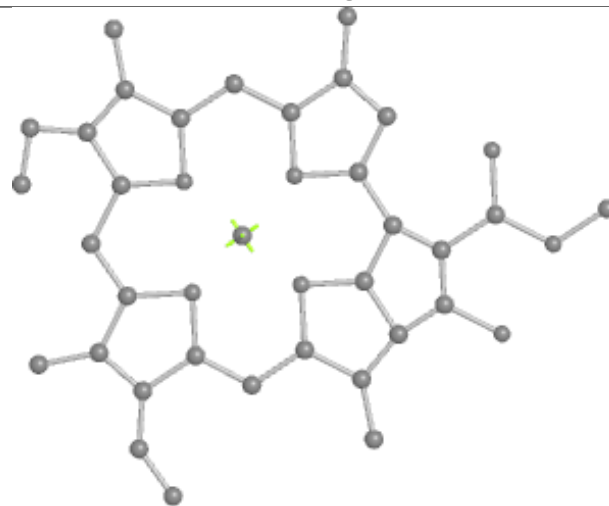
Bond lengths



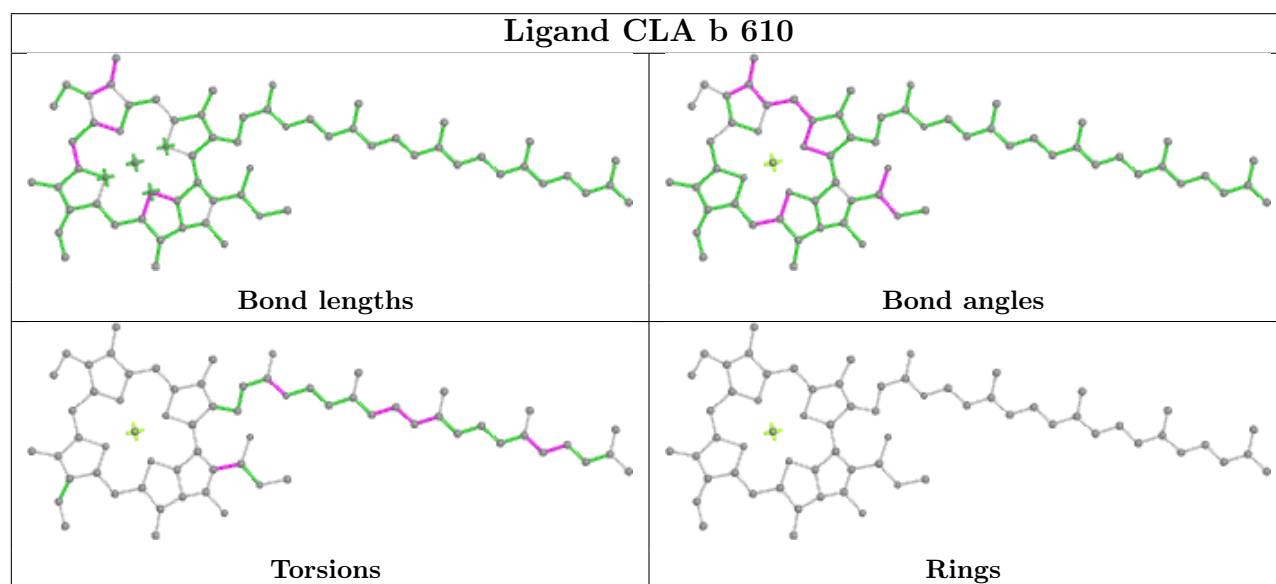
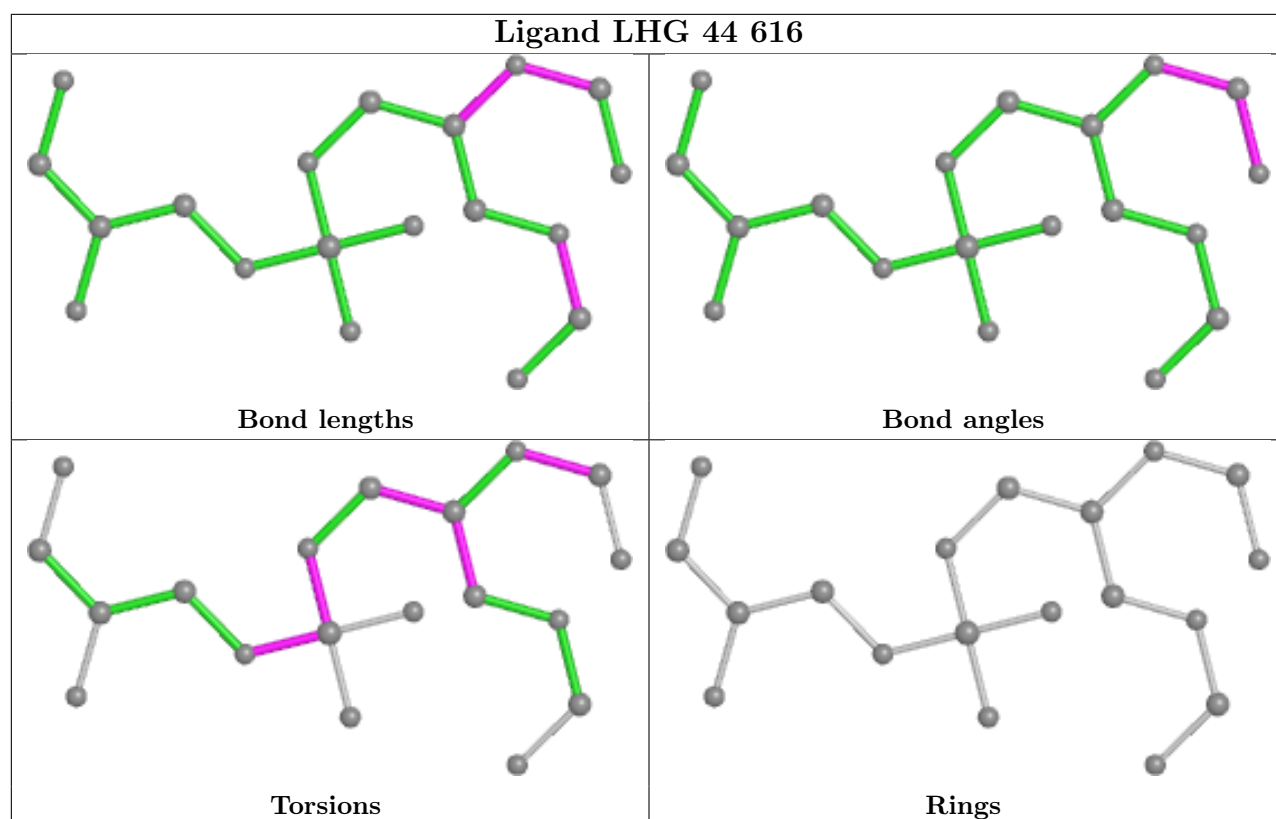
Bond angles

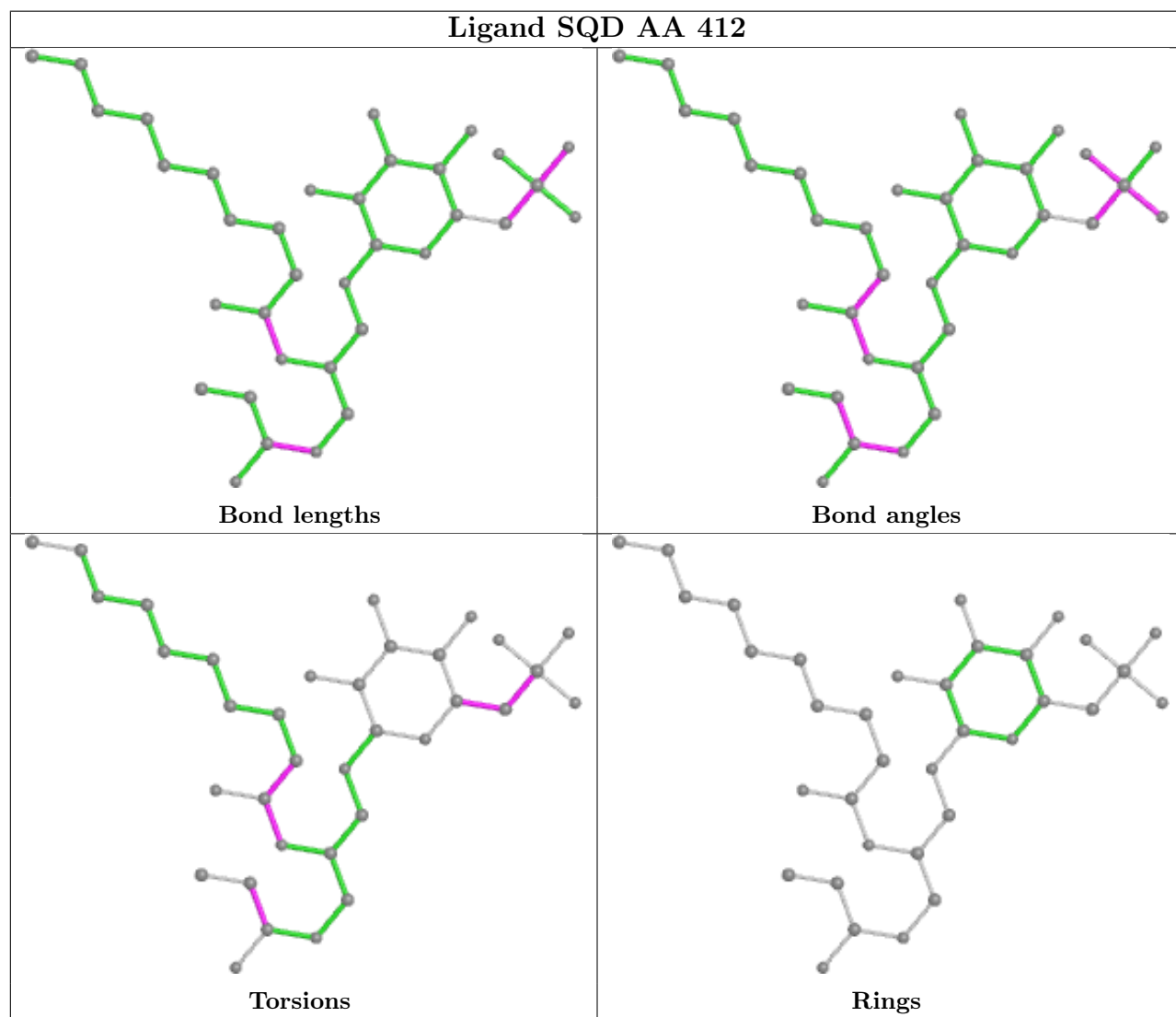
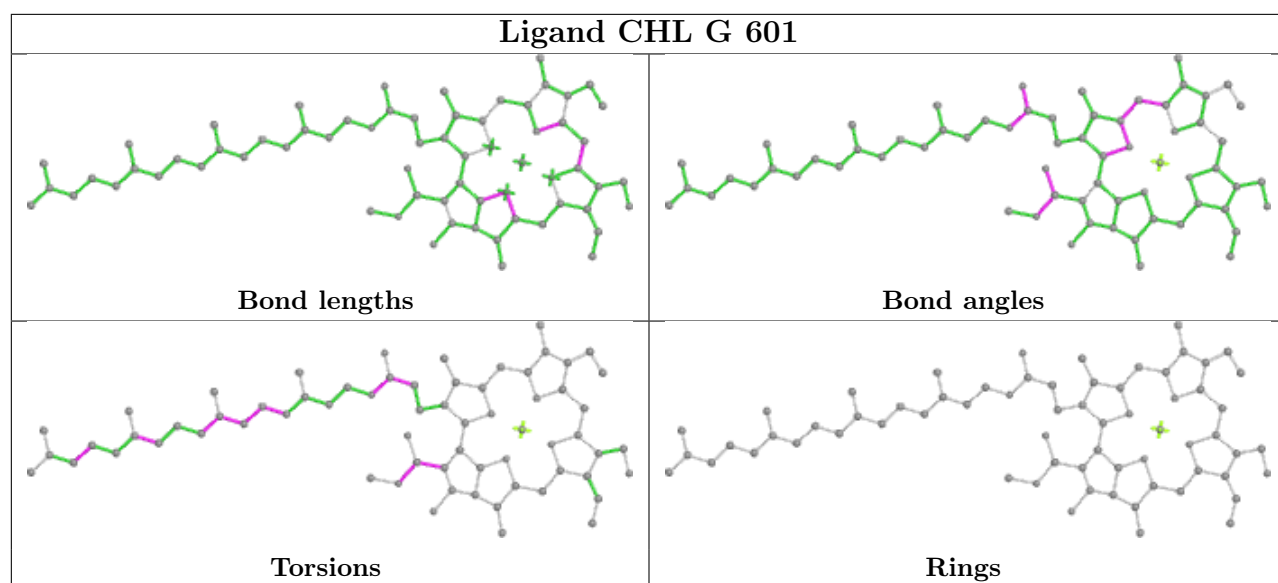


Torsions

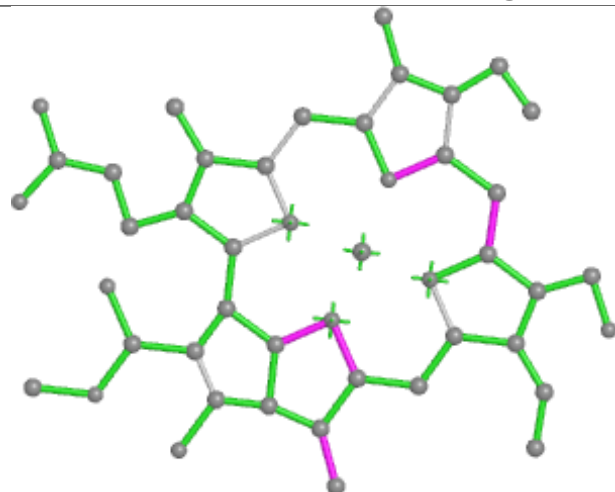


Rings

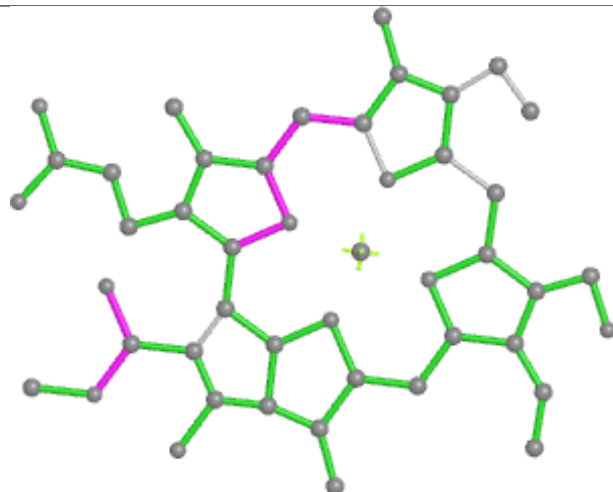




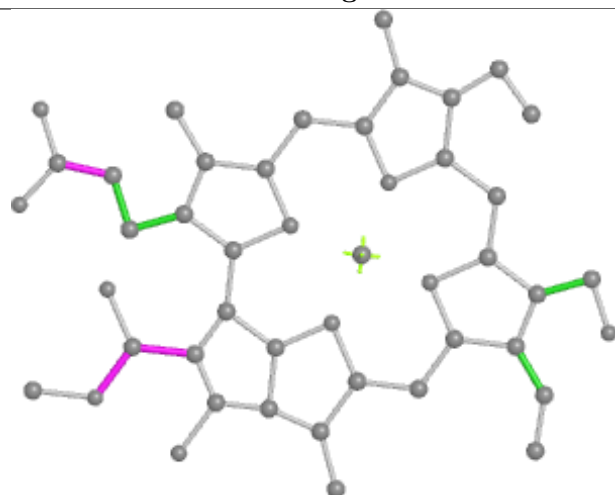
Ligand CHL GG 607



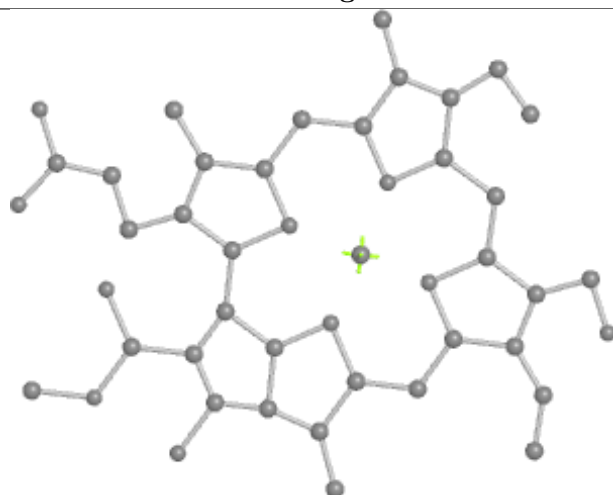
Bond lengths



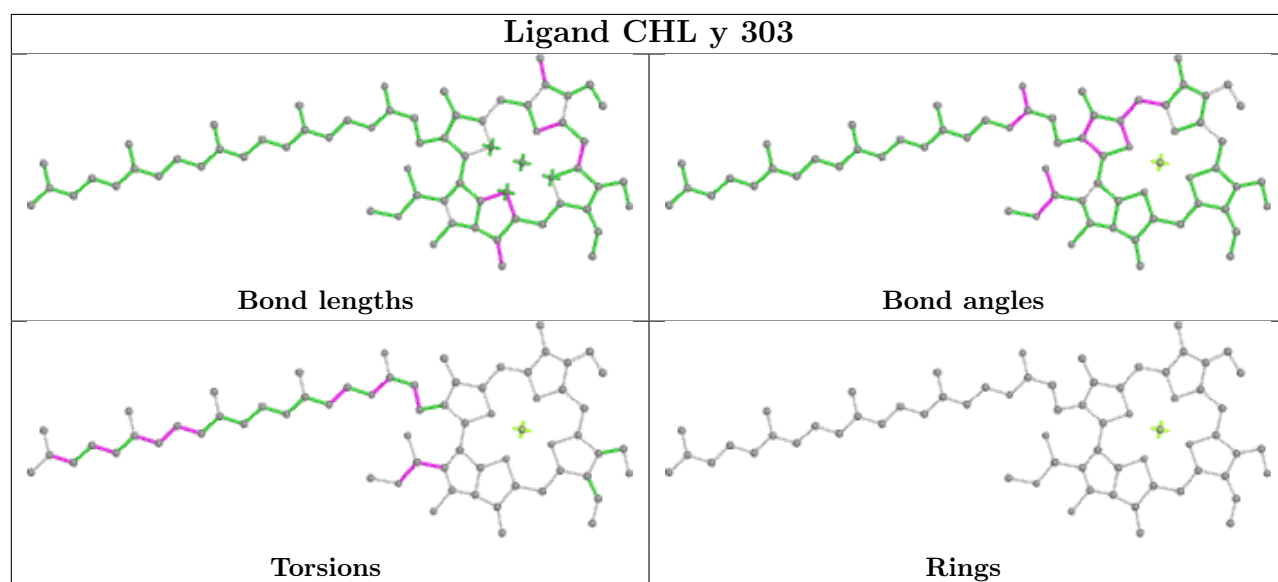
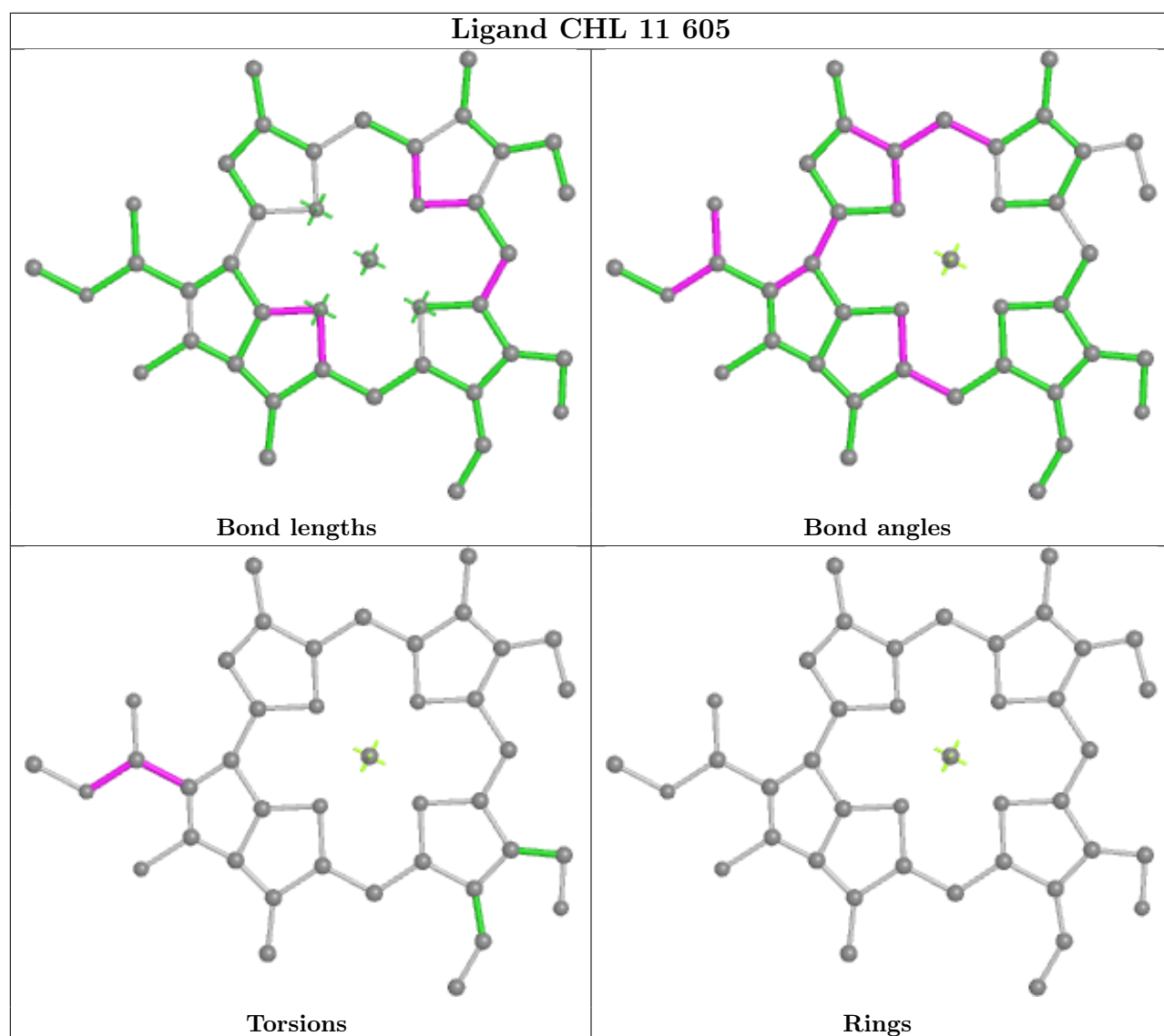
Bond angles



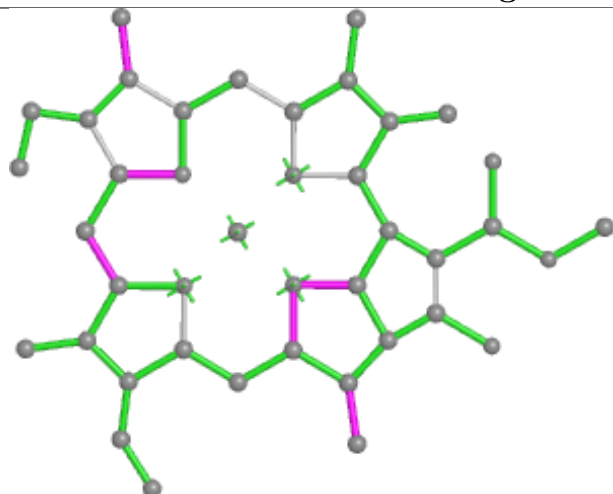
Torsions



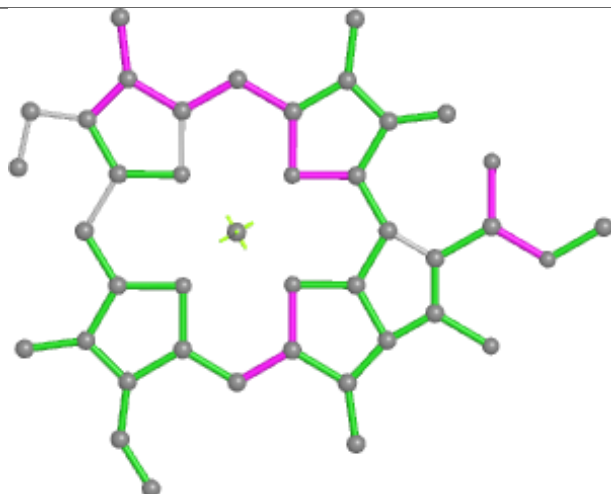
Rings



Ligand CLA GG 614



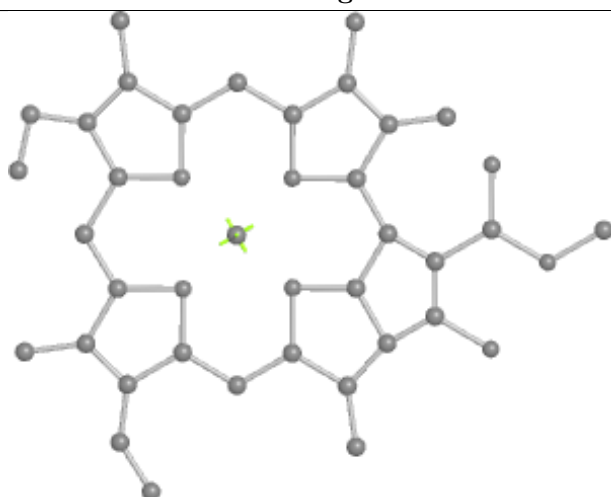
Bond lengths



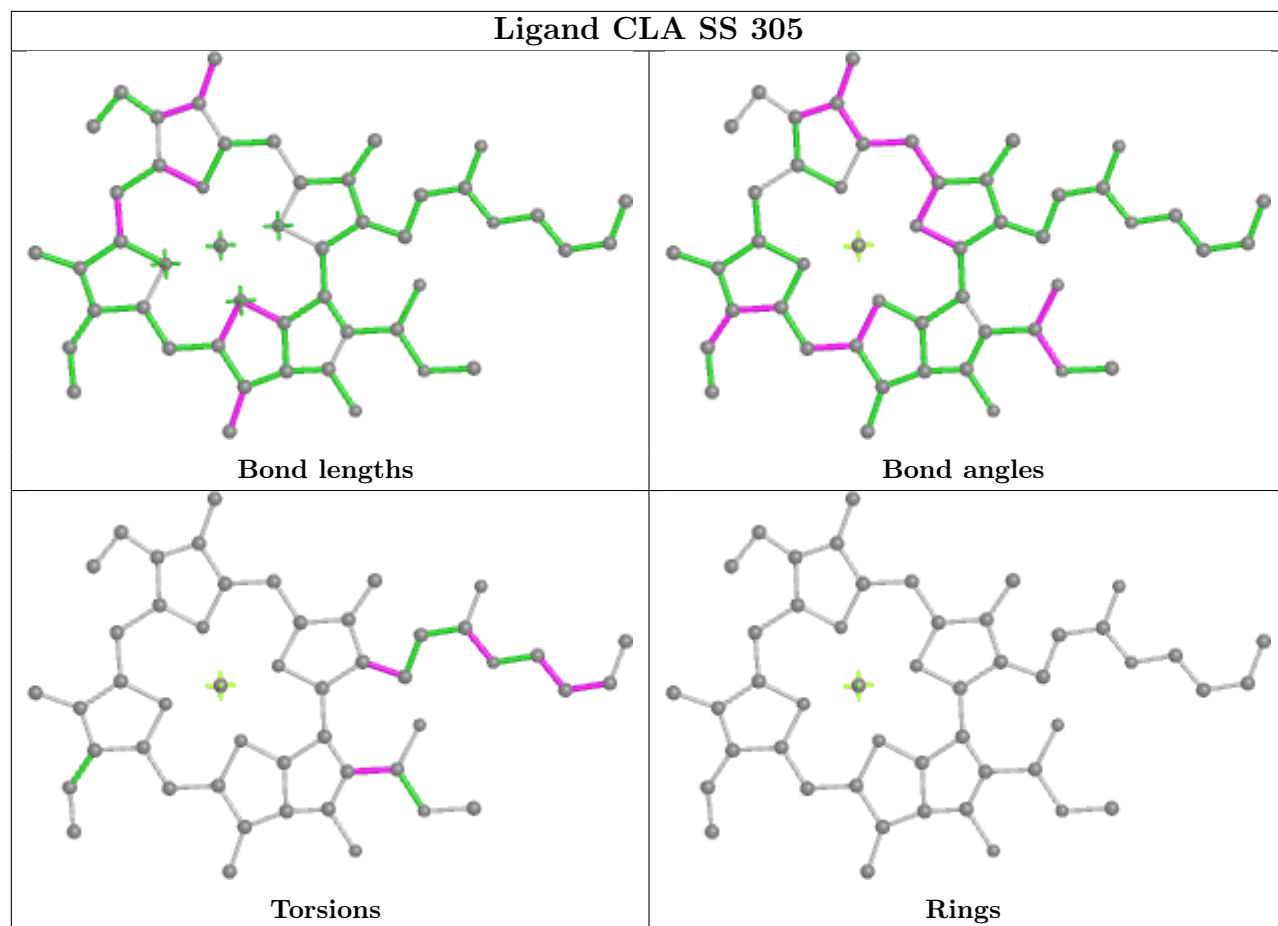
Bond angles

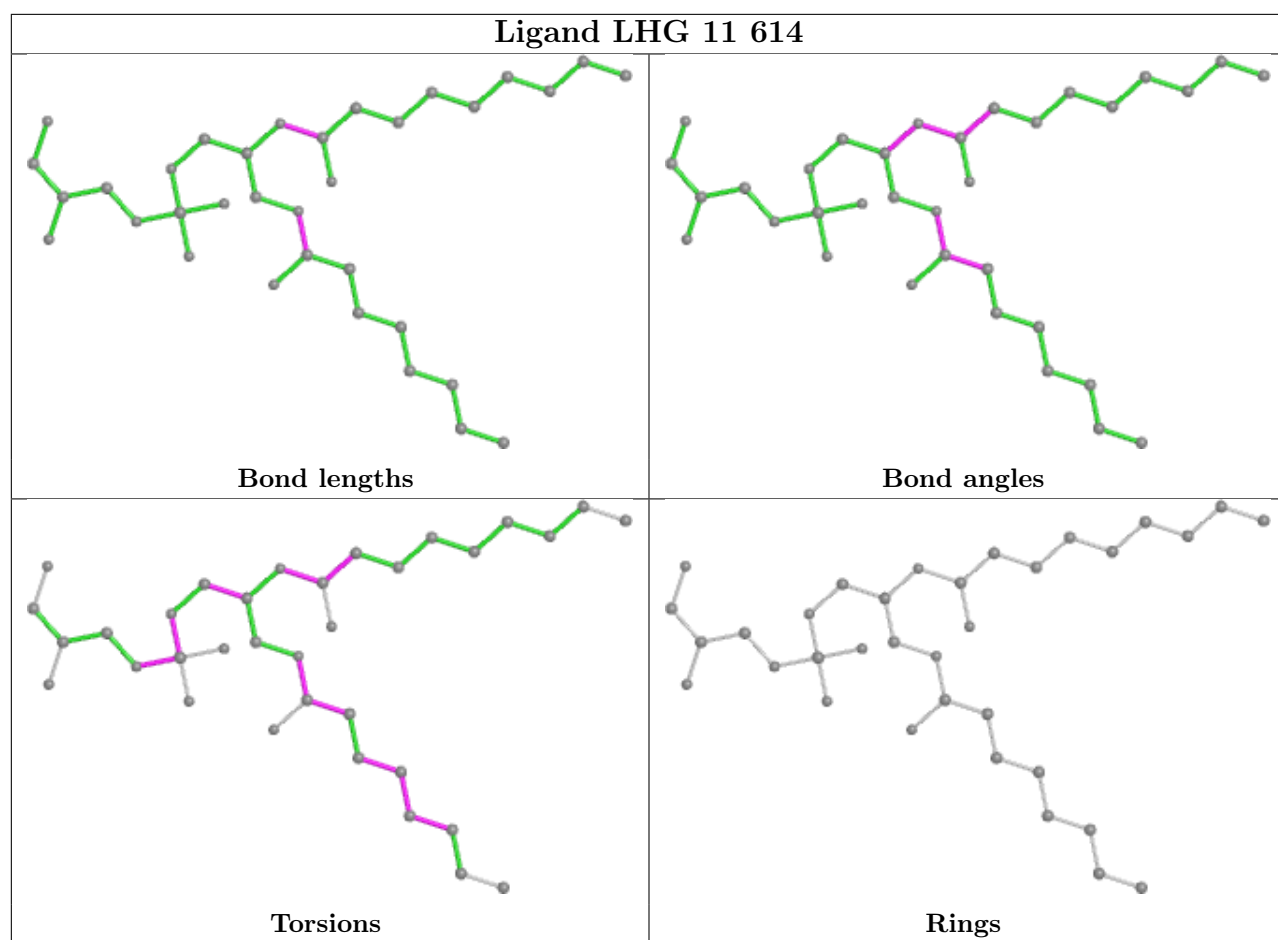


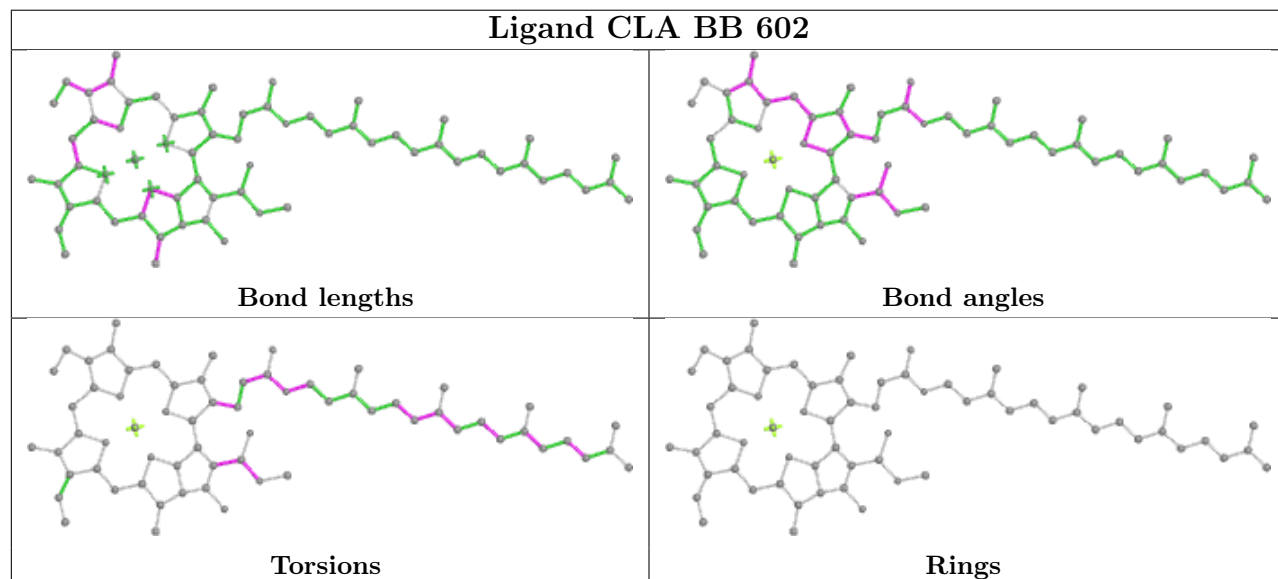
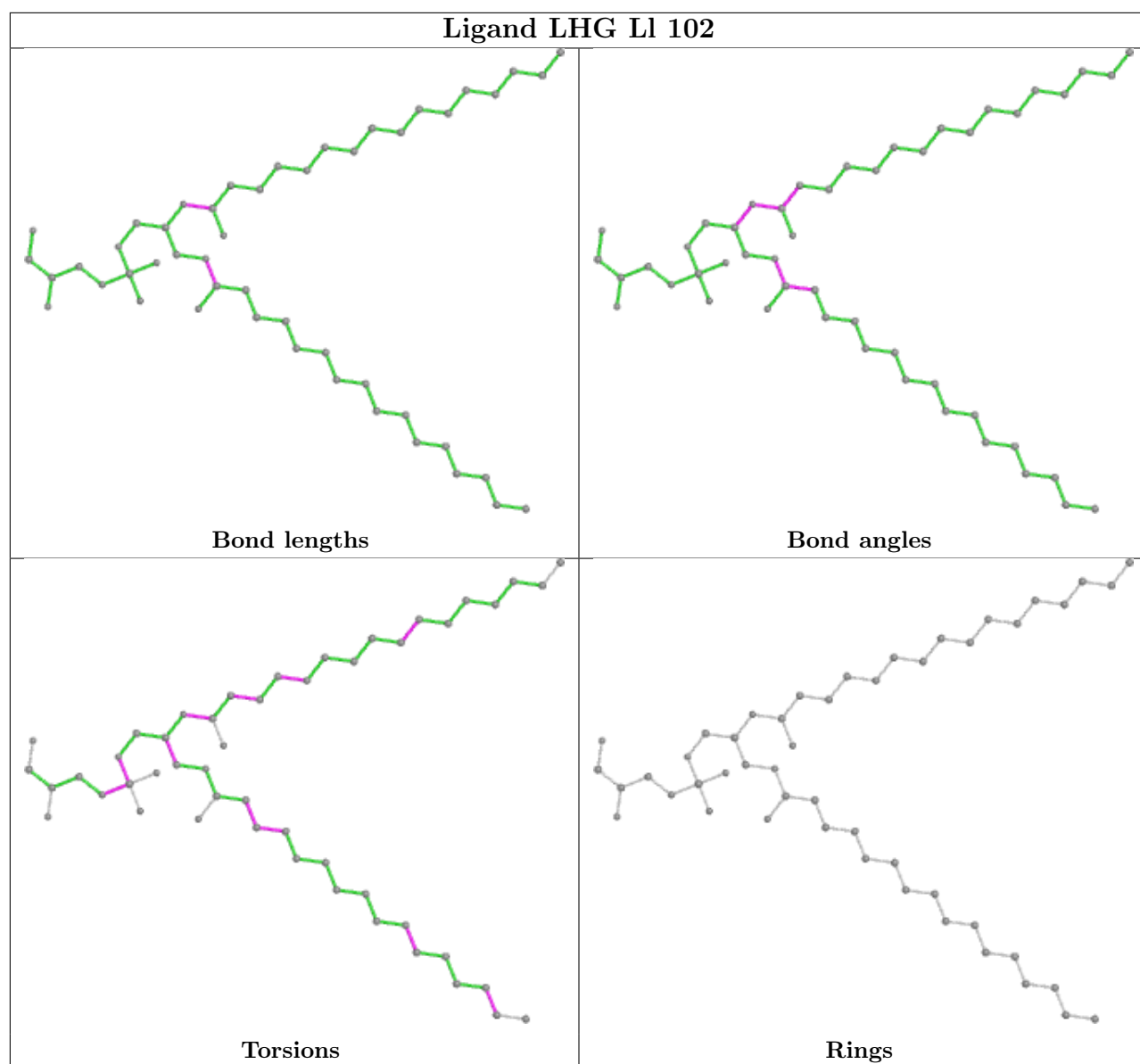
Torsions



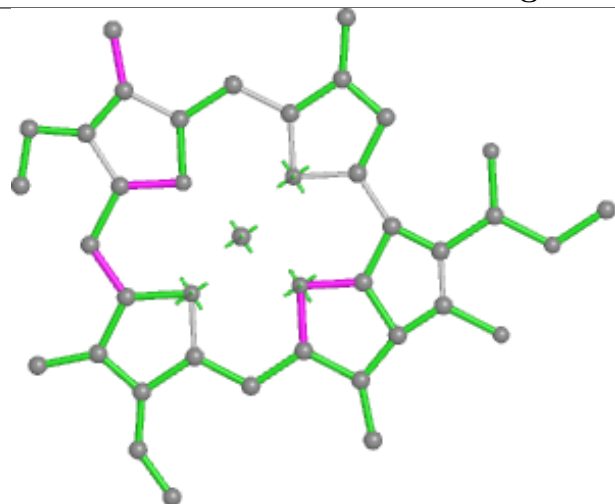
Rings



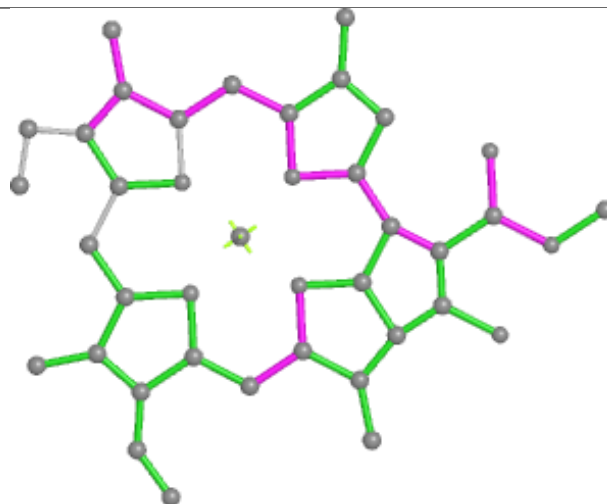




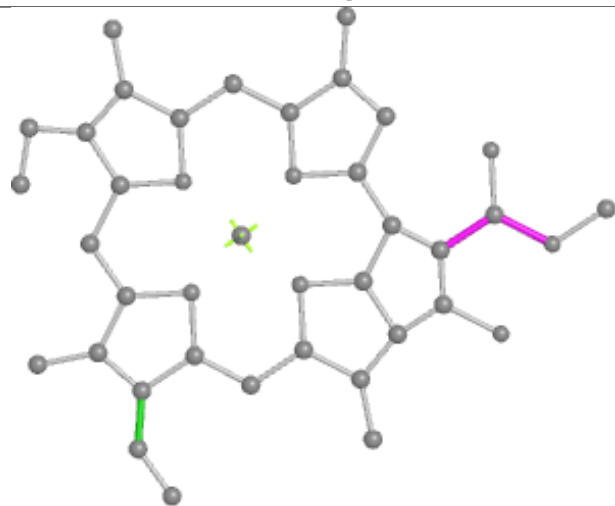
Ligand CLA 1 602



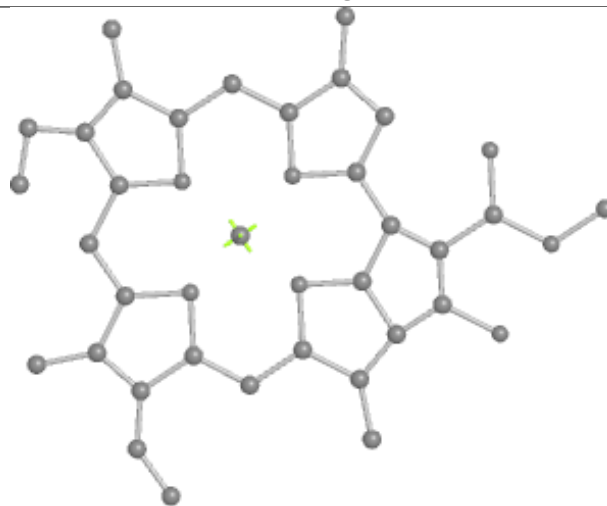
Bond lengths



Bond angles

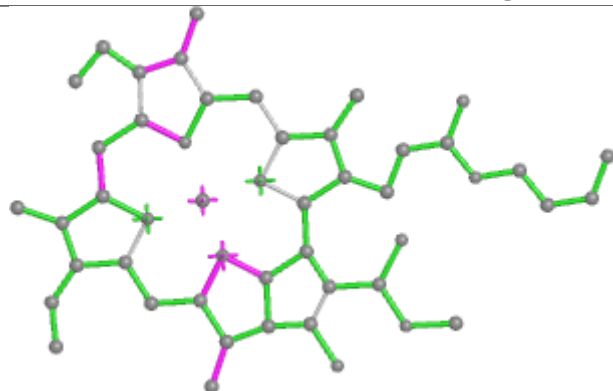


Torsions

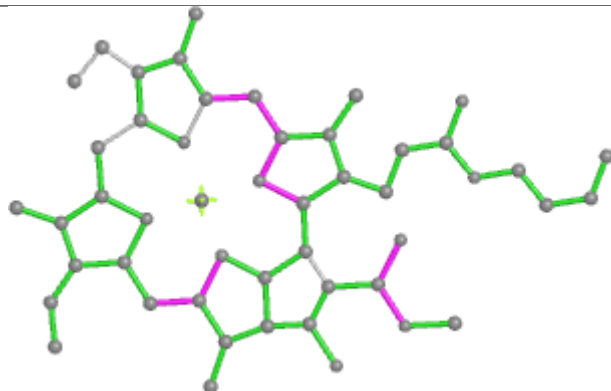


Rings

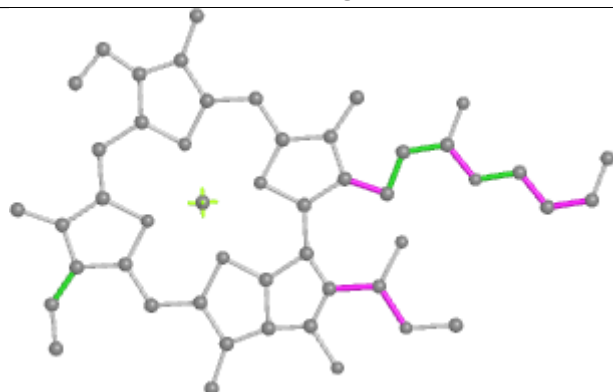
Ligand CLA NN 613



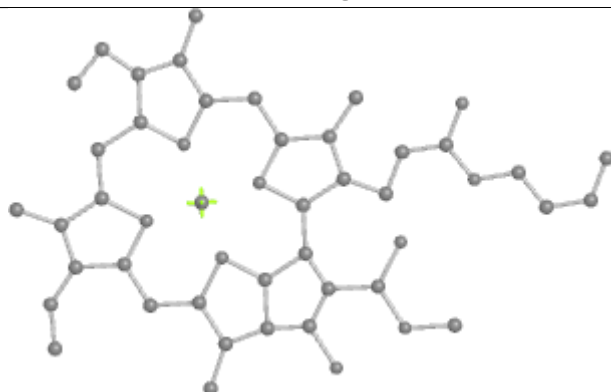
Bond lengths



Bond angles

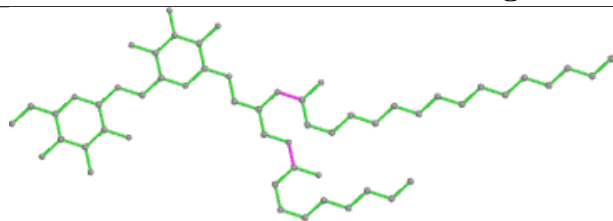


Torsions

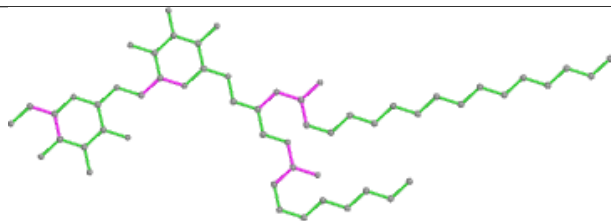


Rings

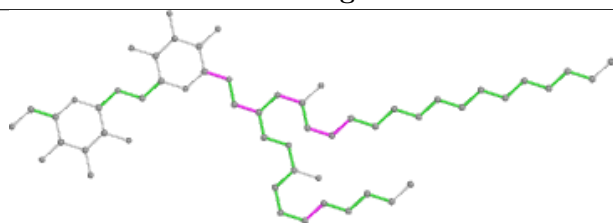
Ligand DGD Cc 519



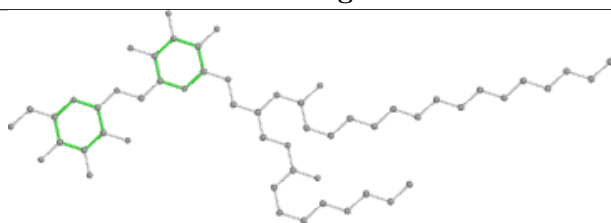
Bond lengths



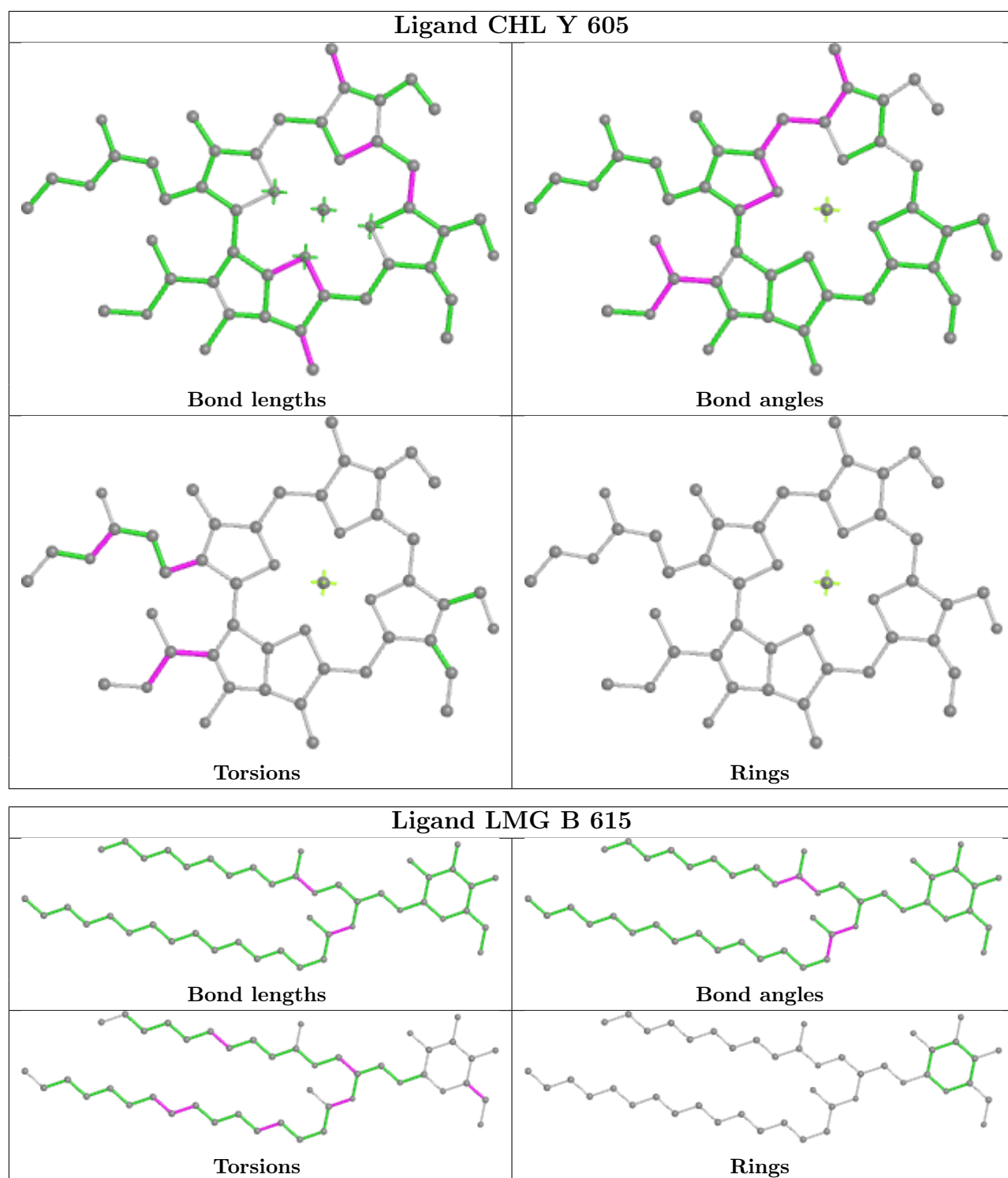
Bond angles

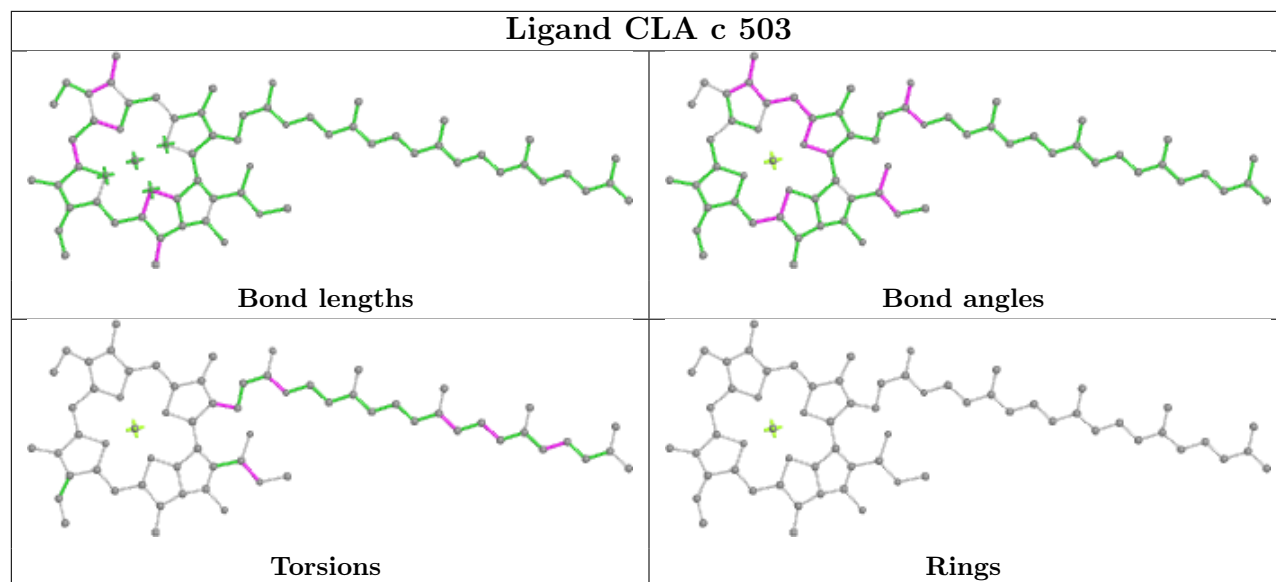
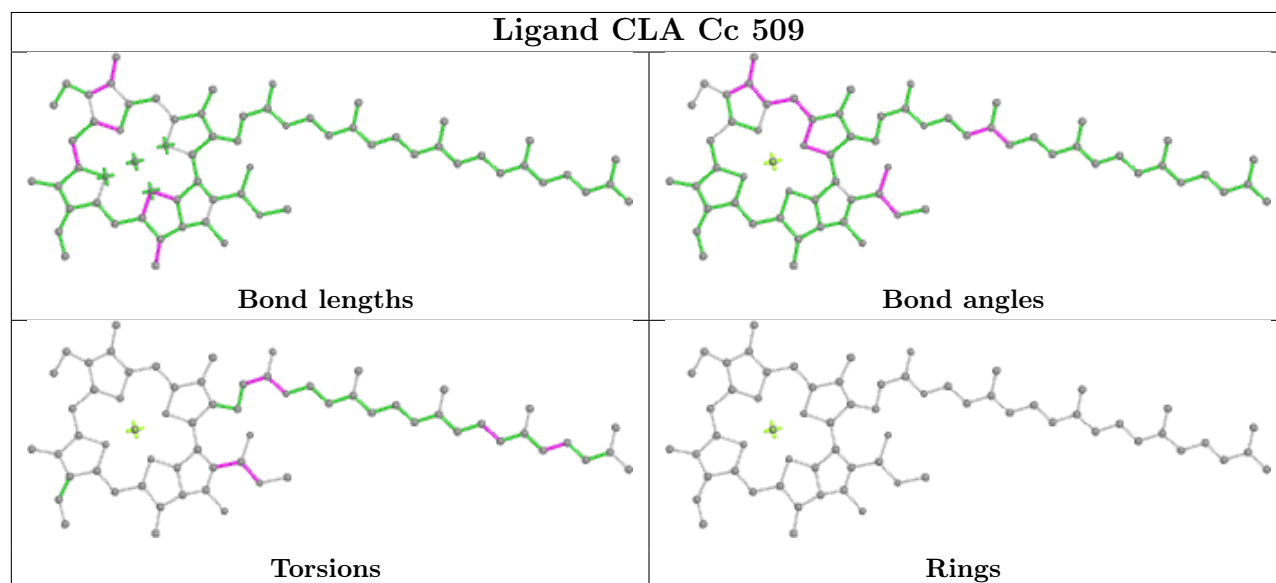


Torsions

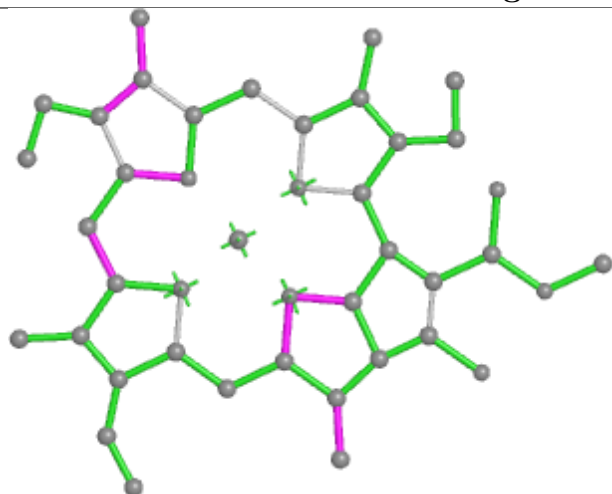


Rings

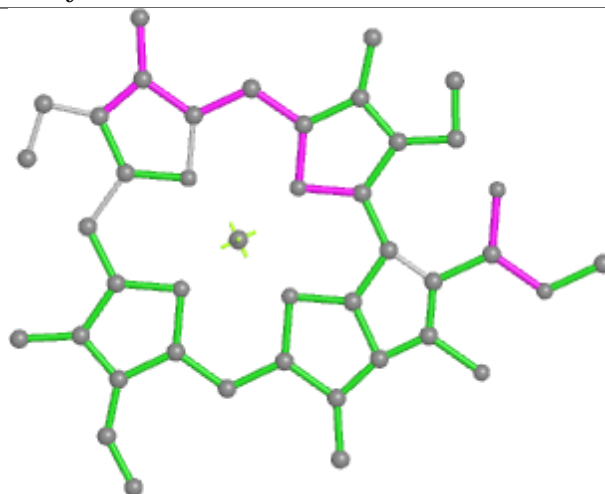


Ligand CLA c 503**Ligand CLA Cc 509**

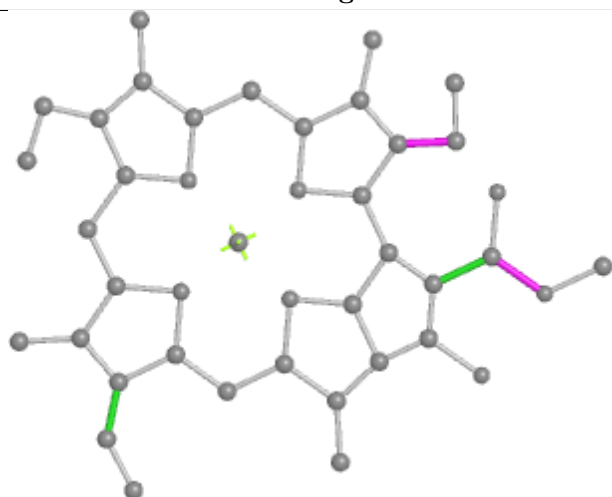
Ligand CLA Yy 611



Bond lengths



Bond angles

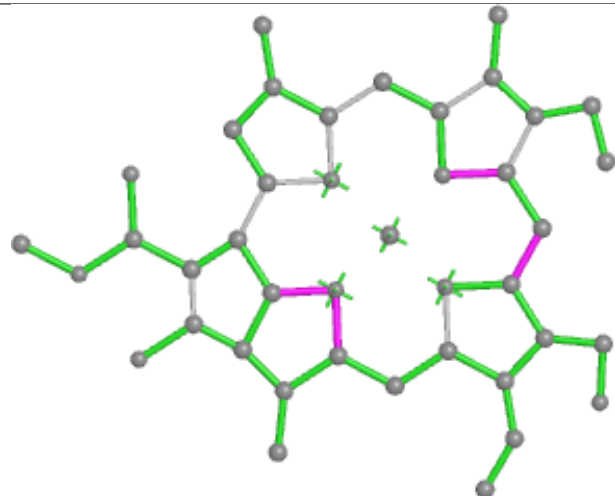


Torsions

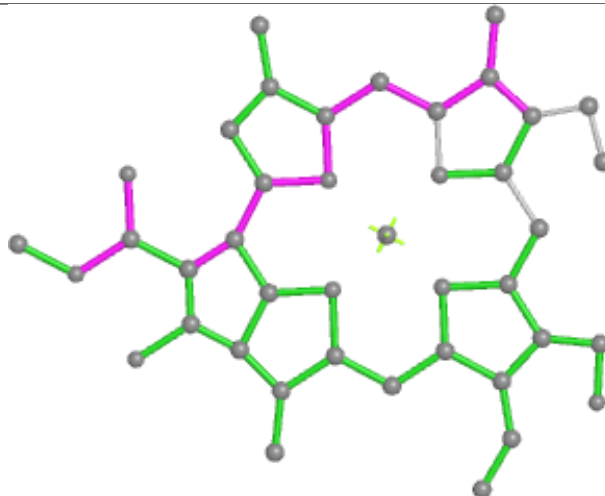


Rings

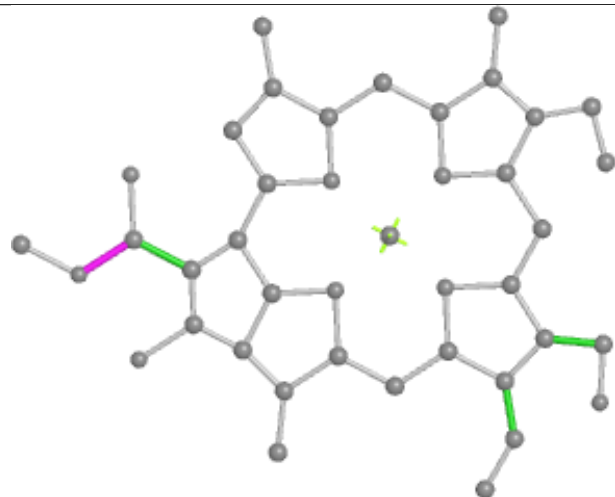
Ligand CHL 3 607



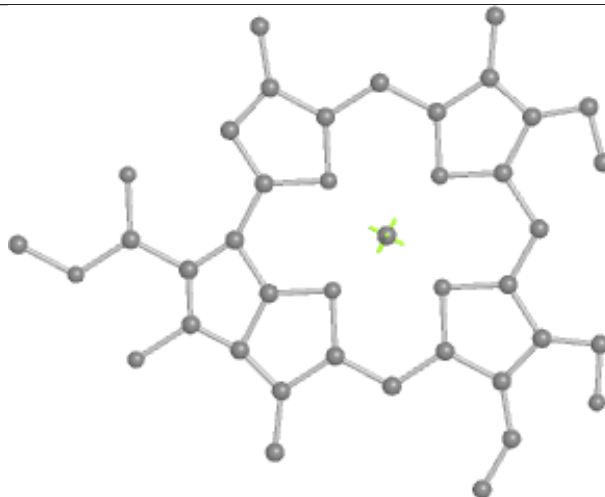
Bond lengths



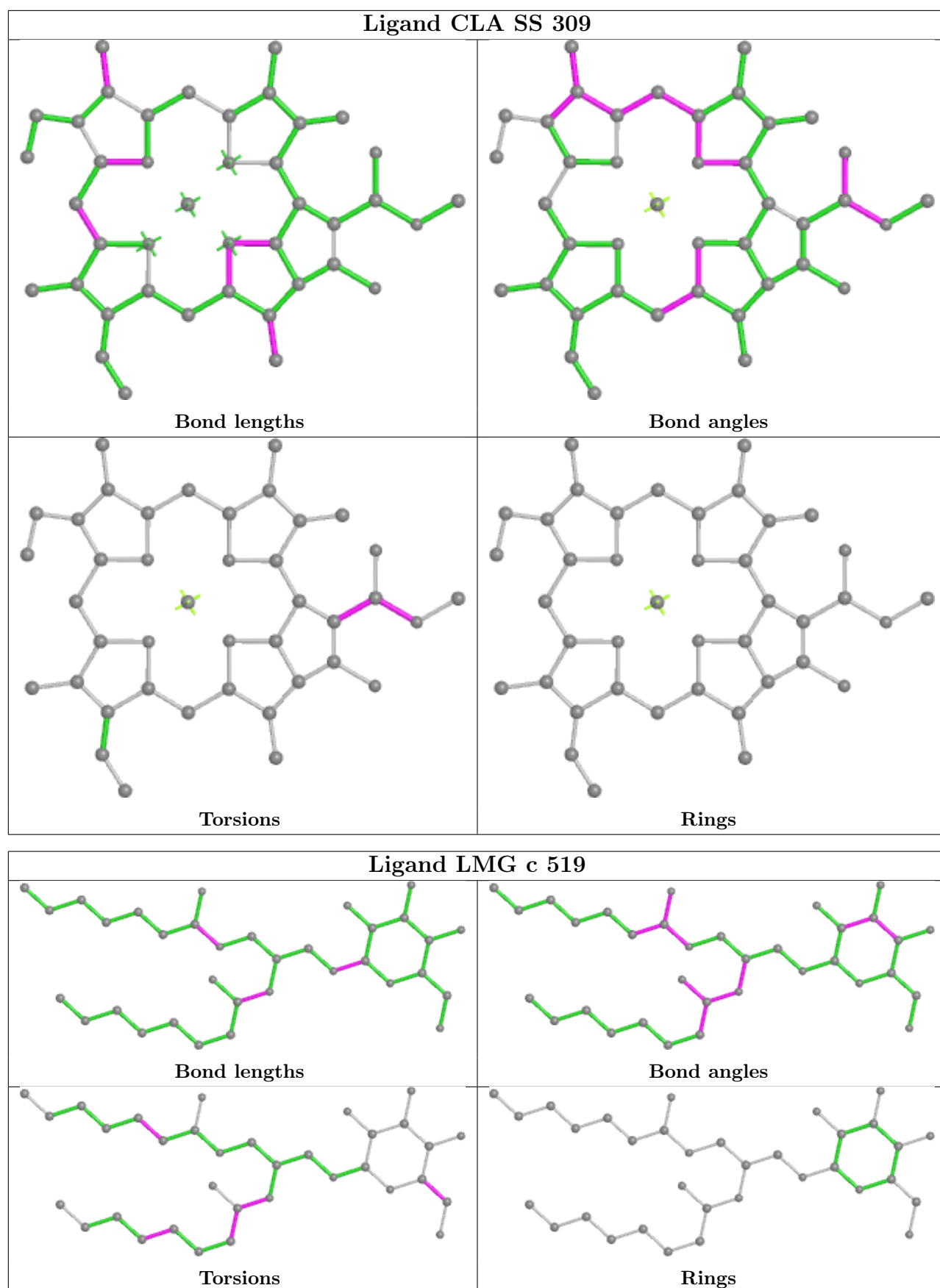
Bond angles

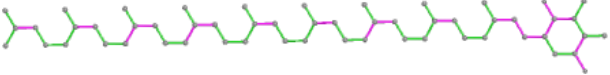
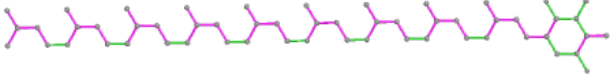
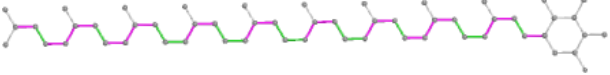
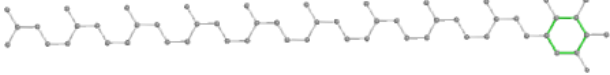


Torsions



Rings



Ligand PL9 DD 406	
 Bond lengths	 Bond angles
 Torsions	 Rings

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

This section contains visualisations of the EMDB entry EMD-39860. 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

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

6.5 Orthogonal surface views

This section was not generated.

6.6 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

7 Map analysis ⓘ

This section contains the results of statistical analysis of the map.

7.1 Map-value distribution ⓘ

This section was not generated.

7.2 Volume estimate versus contour level ⓘ

This section was not generated.

7.3 Rotationally averaged power spectrum ⓘ

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

This section was not generated.