



# Full wwPDB Geometry-Only Validation Report ⓘ

Jun 15, 2020 – 04:07 am BST

PDB ID : 3K2S  
Title : Solution structure of double super helix model  
Authors : Wu, Z.; Gogonea, V.; Lee, X.; Wagner, M.A.; Li, X.-M.; Huang, Y.; Undurti, A.; May, R.P.; Haertlein, M.; Moulin, M.; Gutsche, I.; Zaccai, G.; Didonato, J.A.; Hazen, L.S.  
Deposited on : 2009-09-30  
Resolution : Not provided

This is a Full wwPDB Geometry-Only Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.11

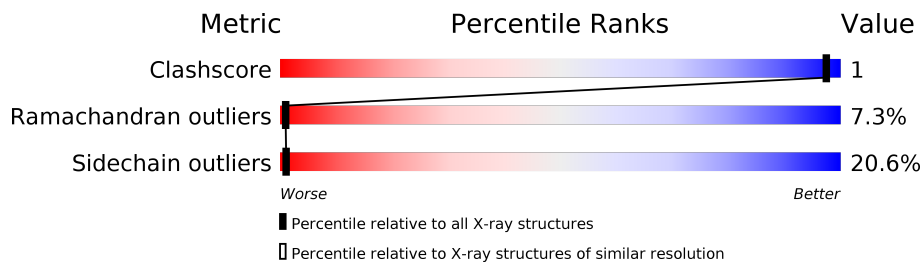
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION SCATTERING*

The reported resolution of this entry is unknown.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	-
Ramachandran outliers	138981	-
Sidechain outliers	138945	-

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

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	243	
1	B	243	

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
2	POV	A	308	X	-	-	-
2	POV	A	316	X	-	-	-
2	POV	A	318	X	-	-	-
2	POV	A	319	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	POV	A	322	X	-	-	-
2	POV	A	326	X	-	-	-
2	POV	A	365	X	-	-	-
2	POV	A	368	X	-	-	-
2	POV	A	378	X	-	-	-
2	POV	A	380	X	-	-	-
2	POV	A	383	X	-	-	-
2	POV	A	385	X	-	-	-
2	POV	A	400	X	-	-	-
2	POV	A	410	X	-	-	-
2	POV	B	303	X	-	-	-
2	POV	B	321	X	-	-	-
2	POV	B	328	X	-	-	-
2	POV	B	329	X	-	-	-
2	POV	B	330	X	-	-	-
2	POV	B	346	X	-	-	-
2	POV	B	347	X	-	-	-
2	POV	B	362	X	-	-	-
2	POV	B	364	X	-	-	-
2	POV	B	367	X	-	-	-

## 2 Entry composition [i](#)

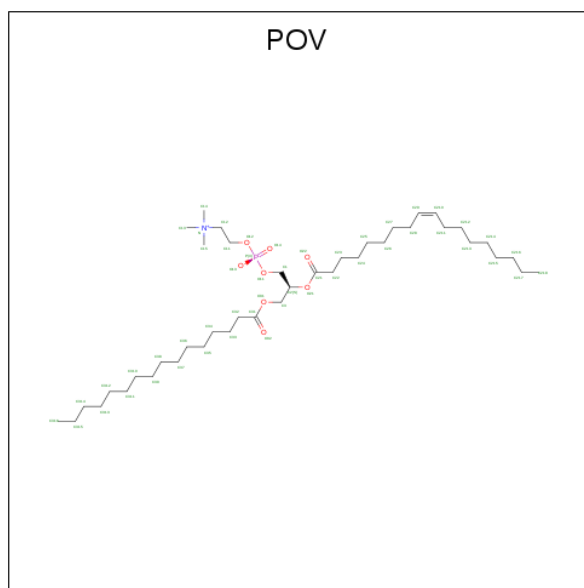
There are 3 unique types of molecules in this entry. The entry contains 14920 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Apolipoprotein A-I.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	243	Total	C	N	O	S	0	0	0
			1980	1241	347	389	3			
1	B	243	Total	C	N	O	S	0	0	0
			1980	1241	347	389	3			

- Molecule 2 is (2S)-3-(hexadecanoyloxy)-2-[(9Z)-octadec-9-enoyloxy]propyl 2-(trimethylammonio)ethyl phosphate (three-letter code: POV) (formula: C<sub>42</sub>H<sub>82</sub>NO<sub>8</sub>P).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	A	1	Total	C	N	O	P	0	0
			52	42	1	8	1		
2	A	1	Total	C	N	O	P	0	0
			52	42	1	8	1		
2	A	1	Total	C	N	O	P	0	0
			52	42	1	8	1		
2	A	1	Total	C	N	O	P	0	0
			52	42	1	8	1		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
			Total	C	N	O			P
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
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2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
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2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	A	1	Total 52	42	1	8	1	0	0
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2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
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2	A	1	Total 52	42	1	8	1	0	0
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2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
			Total	C	N	O			P
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
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2	A	1	Total 52	42	1	8	1	0	0
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2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0
2	A	1	Total 52	42	1	8	1	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	A	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	A	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
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2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0
2	B	1	Total 52	C 42	N 1	O 8	P 1	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	B	1	52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0
2	B	1	Total	C	N	O	P		
			52	42	1	8	1	0	0

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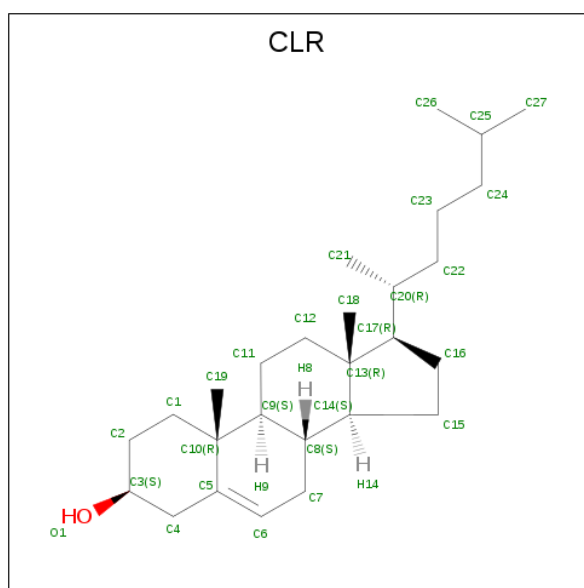
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
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2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
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2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0
2	B	1	Total 52	42	1	8	1	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	B	1	Total	C	N	O	P	0	0
			52	42	1	8	1		
2	B	1	Total	C	N	O	P	0	0
			52	42	1	8	1		
2	B	1	Total	C	N	O	P	0	0
			52	42	1	8	1		
2	B	1	Total	C	N	O	P	0	0
			52	42	1	8	1		
2	B	1	Total	C	N	O	P	0	0
			52	42	1	8	1		
2	B	1	Total	C	N	O	P	0	0
			52	42	1	8	1		

- Molecule 3 is CHOLESTEROL (three-letter code: CLR) (formula: C<sub>27</sub>H<sub>46</sub>O).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	C O	0	0
			28	27 1		
3	A	1	Total	C O	0	0
			28	27 1		
3	A	1	Total	C O	0	0
			28	27 1		
3	A	1	Total	C O	0	0
			28	27 1		

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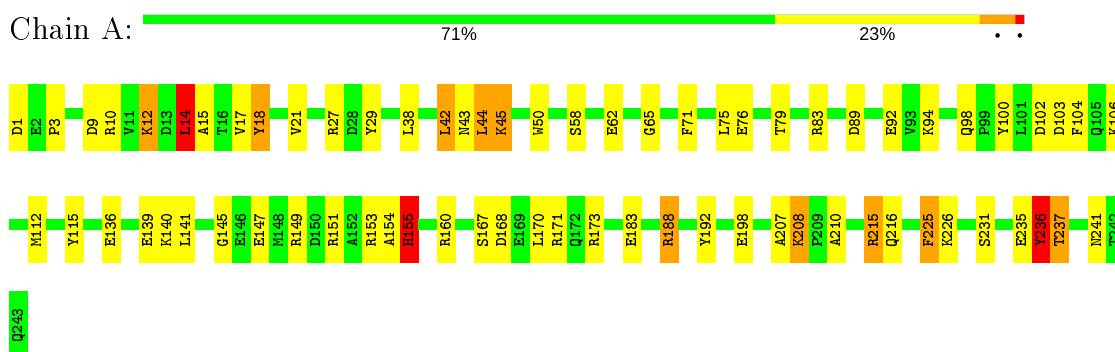
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			28	27	1		
3	A	1	Total	C	O	0	0
			28	27	1		
3	A	1	Total	C	O	0	0
			28	27	1		
3	A	1	Total	C	O	0	0
			28	27	1		
3	A	1	Total	C	O	0	0
			28	27	1		
3	B	1	Total	C	O	0	0
			28	27	1		
3	B	1	Total	C	O	0	0
			28	27	1		
3	B	1	Total	C	O	0	0
			28	27	1		
3	B	1	Total	C	O	0	0
			28	27	1		
3	B	1	Total	C	O	0	0
			28	27	1		
3	B	1	Total	C	O	0	0
			28	27	1		
3	B	1	Total	C	O	0	0
			28	27	1		
3	B	1	Total	C	O	0	0
			28	27	1		

### 3 Residue-property plots [i](#)

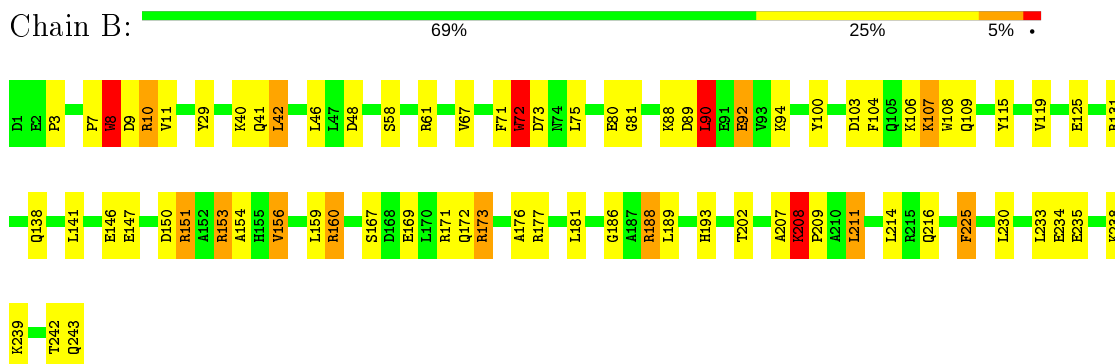
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according 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.

Note EDS was not executed.

- Molecule 1: Apolipoprotein A-I



- Molecule 1: Apolipoprotein A-I





## 4 Model quality

### 4.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: POV, CLR

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	0.82	0/2015	1.35	20/2714 (0.7%)
1	B	0.82	0/2015	1.35	12/2714 (0.4%)
All	All	0.82	0/4030	1.35	32/5428 (0.6%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	5
1	B	0	9
All	All	0	14

There are no bond length outliers.

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	188	ARG	NE-CZ-NH1	8.33	124.47	120.30
1	A	149	ARG	NE-CZ-NH2	-7.98	116.31	120.30
1	B	8	TRP	O-C-N	-7.79	110.24	122.70
1	B	151	ARG	NE-CZ-NH2	-7.49	116.56	120.30
1	B	8	TRP	CB-CG-CD2	7.20	135.96	126.60
1	A	27	ARG	NE-CZ-NH1	7.09	123.84	120.30
1	A	149	ARG	NE-CZ-NH1	6.99	123.80	120.30
1	A	236	TYR	CB-CG-CD2	-6.87	116.88	121.00
1	A	151	ARG	NE-CZ-NH2	-6.83	116.88	120.30
1	B	8	TRP	CB-CG-CD1	-6.75	118.22	127.00
1	B	160	ARG	NE-CZ-NH1	6.66	123.63	120.30
1	A	10	ARG	NE-CZ-NH1	-6.62	116.99	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	188	ARG	NE-CZ-NH1	6.62	123.61	120.30
1	A	236	TYR	CA-CB-CG	6.61	125.95	113.40
1	A	10	ARG	NE-CZ-NH2	6.53	123.56	120.30
1	B	10	ARG	NE-CZ-NH2	-6.42	117.09	120.30
1	A	173	ARG	NE-CZ-NH1	6.30	123.45	120.30
1	A	154	ALA	C-N-CA	5.93	136.52	121.70
1	B	72	TRP	CA-CB-CG	5.86	124.84	113.70
1	A	83	ARG	NE-CZ-NH1	5.85	123.23	120.30
1	B	225	PHE	CA-CB-CG	5.75	127.71	113.90
1	B	8	TRP	CA-CB-CG	5.67	124.47	113.70
1	A	155	HIS	CB-CA-C	5.50	121.40	110.40
1	A	192	TYR	CB-CG-CD2	-5.27	117.84	121.00
1	A	160	ARG	NE-CZ-NH1	5.21	122.91	120.30
1	A	151	ARG	CD-NE-CZ	5.18	130.85	123.60
1	B	173	ARG	NE-CZ-NH1	5.15	122.88	120.30
1	A	18	TYR	CA-CB-CG	5.13	123.16	113.40
1	B	208	LYS	CB-CA-C	5.08	120.55	110.40
1	A	154	ALA	N-CA-C	5.05	124.63	111.00
1	A	215	ARG	NE-CZ-NH1	5.03	122.81	120.30
1	A	225	PHE	CB-CG-CD1	5.02	124.31	120.80

There are no chirality outliers.

All (14) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1	ASP	Peptide
1	A	167	SER	Peptide
1	A	168	ASP	Peptide
1	A	236	TYR	Peptide
1	A	237	THR	Peptide
1	B	177	ARG	Sidechain
1	B	239	LYS	Peptide
1	B	67	VAL	Peptide
1	B	7	PRO	Mainchain,Peptide
1	B	8	TRP	Mainchain
1	B	80	GLU	Peptide
1	B	90	LEU	Peptide
1	B	92	GLU	Peptide

## 4.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1980	0	1968	8	0
1	B	1980	0	1968	9	0
2	A	5772	0	9102	5	0
2	B	4628	0	7298	12	0
3	A	280	0	460	2	0
3	B	280	0	460	1	0
All	All	14920	0	21256	27	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 1.

All (27) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:12:LYS:HB3	1:A:15:ALA:HB2	1.82	0.62
1:A:44:LEU:HD12	1:A:45:LYS:H	1.67	0.60
1:B:115:TYR:CE1	1:B:119:VAL:HG21	2.37	0.60
1:A:12:LYS:CB	1:A:15:ALA:HB2	2.37	0.54
1:A:210:ALA:HB1	3:A:402:CLR:H181	1.91	0.52
1:B:151:ARG:HA	1:B:154:ALA:HB3	1.92	0.52
1:B:153:ARG:HH21	2:B:388:POV:H22A	1.74	0.52
1:A:42:LEU:CD2	1:A:43:ASN:H	2.24	0.51
2:A:396:POV:H31D	2:B:313:POV:H31G	1.92	0.50
2:A:311:POV:H31H	2:A:311:POV:H31C	1.92	0.50
1:A:236:TYR:HB2	1:A:237:THR:HG23	1.94	0.48
2:B:334:POV:H27A	2:B:334:POV:H23	1.96	0.48
1:A:76:GLU:HA	1:A:79:THR:HG22	1.96	0.47
1:B:11:VAL:HG22	2:B:329:POV:H26A	1.97	0.47
1:B:208:LYS:H	2:B:373:POV:H22A	1.79	0.47
2:A:357:POV:H36	2:B:349:POV:H27	1.98	0.46
3:B:393:CLR:H212	3:B:393:CLR:H121	2.00	0.43
1:B:242:THR:HG21	2:B:314:POV:H2	2.01	0.42
1:A:14:LEU:H	1:A:14:LEU:HD13	1.83	0.42
2:B:339:POV:H22A	2:B:339:POV:H2	1.87	0.42
2:A:412:POV:H13A	2:A:412:POV:H22A	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:103:ASP:OD1	1:B:107:LYS:NZ	2.51	0.41
2:A:318:POV:H3A	2:A:318:POV:H32	1.90	0.41
2:B:331:POV:H14B	2:B:331:POV:P	2.61	0.41
3:A:402:CLR:C23	2:B:331:POV:H211	2.51	0.41
1:B:131:ARG:HH22	2:B:303:POV:H32A	1.86	0.40
1:B:141:LEU:HD13	2:B:302:POV:H25A	2.03	0.40

There are no symmetry-related clashes.

## 4.3 Torsion angles [i](#)

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	241/243 (99%)	192 (80%)	37 (15%)	12 (5%)	2	2
1	B	241/243 (99%)	181 (75%)	37 (15%)	23 (10%)	0	0
All	All	482/486 (99%)	373 (77%)	74 (15%)	35 (7%)	1	1

All (35) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	44	LEU
1	B	8	TRP
1	B	10	ARG
1	B	160	ARG
1	B	172	GLN
1	B	176	ALA
1	A	65	GLY
1	A	145	GLY
1	A	155	HIS
1	A	207	ALA
1	A	208	LYS
1	A	241	ASN

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Mol	Chain	Res	Type
1	B	40	LYS
1	B	81	GLY
1	B	89	ASP
1	B	233	LEU
1	A	9	ASP
1	A	45	LYS
1	B	42	LEU
1	B	159	LEU
1	B	207	ALA
1	B	211	LEU
1	A	14	LEU
1	B	9	ASP
1	B	41	GLN
1	A	3	PRO
1	B	3	PRO
1	B	72	TRP
1	B	90	LEU
1	B	146	GLU
1	B	167	SER
1	B	156	VAL
1	A	21	VAL
1	B	186	GLY
1	B	208	LYS

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

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	214/214 (100%)	171 (80%)	43 (20%)	<b>1</b> <b>1</b>
1	B	214/214 (100%)	169 (79%)	45 (21%)	<b>1</b> <b>1</b>
All	All	428/428 (100%)	340 (79%)	88 (21%)	<b>1</b> <b>1</b>

All (88) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	12	LYS
1	A	14	LEU
1	A	17	VAL
1	A	18	TYR
1	A	29	TYR
1	A	38	LEU
1	A	42	LEU
1	A	50	TRP
1	A	58	SER
1	A	62	GLU
1	A	71	PHE
1	A	75	LEU
1	A	89	ASP
1	A	92	GLU
1	A	94	LYS
1	A	98	GLN
1	A	100	TYR
1	A	102	ASP
1	A	103	ASP
1	A	104	PHE
1	A	106	LYS
1	A	112	MET
1	A	115	TYR
1	A	136	GLU
1	A	139	GLU
1	A	140	LYS
1	A	141	LEU
1	A	147	GLU
1	A	153	ARG
1	A	155	HIS
1	A	170	LEU
1	A	171	ARG
1	A	183	GLU
1	A	188	ARG
1	A	198	GLU
1	A	208	LYS
1	A	215	ARG
1	A	216	GLN
1	A	225	PHE
1	A	226	LYS
1	A	231	SER
1	A	235	GLU
1	A	236	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	8	TRP
1	B	29	TYR
1	B	42	LEU
1	B	46	LEU
1	B	48	ASP
1	B	58	SER
1	B	61	ARG
1	B	71	PHE
1	B	72	TRP
1	B	73	ASP
1	B	75	LEU
1	B	88	LYS
1	B	90	LEU
1	B	92	GLU
1	B	94	LYS
1	B	100	TYR
1	B	104	PHE
1	B	106	LYS
1	B	107	LYS
1	B	108	TRP
1	B	109	GLN
1	B	125	GLU
1	B	138	GLN
1	B	147	GLU
1	B	150	ASP
1	B	153	ARG
1	B	156	VAL
1	B	169	GLU
1	B	171	ARG
1	B	173	ARG
1	B	181	LEU
1	B	188	ARG
1	B	189	LEU
1	B	193	HIS
1	B	202	THR
1	B	209	PRO
1	B	211	LEU
1	B	214	LEU
1	B	216	GLN
1	B	225	PHE
1	B	230	LEU
1	B	234	GLU

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Mol	Chain	Res	Type
1	B	235	GLU
1	B	238	LYS
1	B	243	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	63	GLN

#### 4.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

#### 4.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

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

220 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
2	POV	A	408	-	51,51,51	0.91	2 (3%)	57,59,59	0.51	0
2	POV	A	353	-	51,51,51	0.87	2 (3%)	57,59,59	0.59	1 (1%)
2	POV	A	393	-	51,51,51	0.89	2 (3%)	57,59,59	0.54	0
2	POV	B	381	-	51,51,51	0.94	2 (3%)	57,59,59	0.51	0



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	POV	B	371	-	51,51,51	0.90	2 (3%)	57,59,59	0.59	0
2	POV	A	368	-	51,51,51	0.88	2 (3%)	57,59,59	0.48	0
3	CLR	B	395	-	31,31,31	0.74	0	48,48,48	1.02	2 (4%)
2	POV	B	386	-	51,51,51	0.93	2 (3%)	57,59,59	0.56	0
2	POV	B	319	-	51,51,51	0.90	2 (3%)	57,59,59	0.55	0
2	POV	A	306	-	51,51,51	0.86	2 (3%)	57,59,59	0.48	0
2	POV	B	350	-	51,51,51	0.90	2 (3%)	57,59,59	0.61	0
2	POV	A	352	-	51,51,51	0.88	2 (3%)	57,59,59	0.69	1 (1%)
2	POV	A	315	-	51,51,51	0.88	2 (3%)	57,59,59	0.66	1 (1%)
2	POV	B	361	-	51,51,51	0.90	2 (3%)	57,59,59	0.79	1 (1%)
2	POV	B	301	-	51,51,51	0.91	3 (5%)	57,59,59	0.59	0
2	POV	B	322	-	51,51,51	0.90	2 (3%)	57,59,59	0.49	0
2	POV	A	389	-	51,51,51	0.89	2 (3%)	57,59,59	0.60	0
2	POV	A	377	-	51,51,51	0.88	2 (3%)	57,59,59	0.54	0
2	POV	A	354	-	51,51,51	0.90	2 (3%)	57,59,59	0.62	0
2	POV	B	359	-	51,51,51	0.89	2 (3%)	57,59,59	0.55	0
2	POV	A	307	-	51,51,51	0.87	2 (3%)	57,59,59	0.51	0
2	POV	B	367	-	51,51,51	0.89	2 (3%)	57,59,59	0.67	1 (1%)
2	POV	A	301	-	51,51,51	0.85	2 (3%)	57,59,59	0.53	0
2	POV	B	317	-	51,51,51	0.85	2 (3%)	57,59,59	0.63	1 (1%)
2	POV	A	375	-	51,51,51	0.88	2 (3%)	57,59,59	0.51	0
3	CLR	A	418	-	31,31,31	0.79	0	48,48,48	1.00	2 (4%)
2	POV	A	328	-	51,51,51	0.89	2 (3%)	57,59,59	0.58	0
2	POV	B	365	-	51,51,51	0.86	2 (3%)	57,59,59	0.64	1 (1%)
2	POV	A	367	-	51,51,51	0.93	2 (3%)	57,59,59	0.56	0
2	POV	A	407	-	51,51,51	0.89	2 (3%)	57,59,59	0.64	1 (1%)
3	CLR	B	391	-	31,31,31	0.72	0	48,48,48	0.96	3 (6%)
2	POV	A	381	-	51,51,51	0.86	2 (3%)	57,59,59	0.45	0
2	POV	A	346	-	51,51,51	0.88	2 (3%)	57,59,59	0.52	0
2	POV	A	333	-	51,51,51	0.90	2 (3%)	57,59,59	0.71	1 (1%)
2	POV	B	325	-	51,51,51	0.85	2 (3%)	57,59,59	0.60	0
2	POV	A	341	-	51,51,51	0.93	2 (3%)	57,59,59	0.69	1 (1%)
2	POV	B	347	-	51,51,51	0.86	2 (3%)	57,59,59	0.68	1 (1%)
2	POV	B	326	-	51,51,51	0.86	2 (3%)	57,59,59	0.63	1 (1%)
2	POV	B	312	-	51,51,51	0.89	2 (3%)	57,59,59	0.55	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	POV	B	379	-	51,51,51	0.90	2 (3%)	57,59,59	0.66	0
2	POV	A	322	-	51,51,51	0.86	2 (3%)	57,59,59	0.64	1 (1%)
2	POV	A	360	-	51,51,51	0.90	2 (3%)	57,59,59	0.54	0
2	POV	A	343	-	51,51,51	0.87	2 (3%)	57,59,59	0.69	1 (1%)
2	POV	B	333	-	51,51,51	0.88	2 (3%)	57,59,59	0.65	0
2	POV	A	347	-	51,51,51	0.86	2 (3%)	57,59,59	0.49	0
2	POV	A	323	-	51,51,51	0.90	2 (3%)	57,59,59	0.50	0
2	POV	A	400	-	51,51,51	0.86	2 (3%)	57,59,59	0.57	0
2	POV	B	324	-	51,51,51	0.94	2 (3%)	57,59,59	0.69	1 (1%)
2	POV	A	336	-	51,51,51	0.86	2 (3%)	57,59,59	0.67	1 (1%)
2	POV	A	334	-	51,51,51	0.96	2 (3%)	57,59,59	0.64	1 (1%)
2	POV	A	362	-	51,51,51	0.89	2 (3%)	57,59,59	0.77	1 (1%)
2	POV	A	311	-	51,51,51	0.88	3 (5%)	57,59,59	0.61	1 (1%)
2	POV	B	313	-	51,51,51	0.88	2 (3%)	57,59,59	0.78	2 (3%)
2	POV	B	384	-	51,51,51	0.90	2 (3%)	57,59,59	0.57	0
2	POV	A	330	-	51,51,51	0.85	2 (3%)	57,59,59	0.62	0
3	CLR	A	403	-	31,31,31	0.80	0	48,48,48	0.98	2 (4%)
2	POV	A	372	-	51,51,51	0.89	2 (3%)	57,59,59	0.54	0
3	CLR	A	421	-	31,31,31	0.72	0	48,48,48	0.96	2 (4%)
2	POV	A	390	-	51,51,51	0.89	2 (3%)	57,59,59	0.49	0
2	POV	B	373	-	51,51,51	0.97	2 (3%)	57,59,59	0.77	2 (3%)
2	POV	A	342	-	51,51,51	0.86	2 (3%)	57,59,59	0.58	0
3	CLR	A	419	-	31,31,31	0.89	0	48,48,48	1.19	3 (6%)
2	POV	A	416	-	51,51,51	0.85	2 (3%)	57,59,59	0.51	0
2	POV	B	380	-	51,51,51	0.90	2 (3%)	57,59,59	0.77	2 (3%)
2	POV	B	354	-	51,51,51	0.91	2 (3%)	57,59,59	0.53	0
3	CLR	B	397	-	31,31,31	0.81	0	48,48,48	0.89	2 (4%)
2	POV	A	359	-	51,51,51	0.85	3 (5%)	57,59,59	0.76	2 (3%)
2	POV	A	413	-	51,51,51	0.88	2 (3%)	57,59,59	0.62	1 (1%)
2	POV	B	306	-	51,51,51	0.89	2 (3%)	57,59,59	0.62	0
2	POV	B	378	-	51,51,51	0.84	2 (3%)	57,59,59	0.68	1 (1%)
2	POV	A	335	-	51,51,51	0.88	2 (3%)	57,59,59	0.49	0
2	POV	B	360	-	51,51,51	0.87	2 (3%)	57,59,59	0.72	2 (3%)
2	POV	A	302	-	51,51,51	0.85	2 (3%)	57,59,59	0.62	1 (1%)
2	POV	B	302	-	51,51,51	0.88	2 (3%)	57,59,59	0.72	1 (1%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	POV	A	329	-	51,51,51	0.85	2 (3%)	57,59,59	0.77	1 (1%)
2	POV	B	341	-	51,51,51	0.95	2 (3%)	57,59,59	0.68	1 (1%)
2	POV	B	362	-	51,51,51	0.89	2 (3%)	57,59,59	0.61	0
2	POV	A	338	-	51,51,51	0.89	2 (3%)	57,59,59	0.48	0
2	POV	A	383	-	51,51,51	0.90	2 (3%)	57,59,59	0.51	0
2	POV	B	318	-	51,51,51	0.90	2 (3%)	57,59,59	0.65	1 (1%)
2	POV	A	412	-	51,51,51	0.90	2 (3%)	57,59,59	0.61	1 (1%)
2	POV	B	332	-	51,51,51	0.88	2 (3%)	57,59,59	0.54	0
2	POV	A	320	-	51,51,51	0.87	2 (3%)	57,59,59	0.57	0
3	CLR	A	406	-	31,31,31	0.82	1 (3%)	48,48,48	0.93	2 (4%)
3	CLR	B	390	-	31,31,31	0.67	0	48,48,48	0.94	3 (6%)
2	POV	A	327	-	51,51,51	0.91	2 (3%)	57,59,59	0.67	1 (1%)
2	POV	B	321	-	51,51,51	0.92	2 (3%)	57,59,59	0.67	1 (1%)
2	POV	A	414	-	51,51,51	0.88	2 (3%)	57,59,59	0.64	0
2	POV	A	398	-	51,51,51	0.89	2 (3%)	57,59,59	0.60	0
2	POV	B	320	-	51,51,51	0.91	2 (3%)	57,59,59	0.61	1 (1%)
3	CLR	A	404	-	31,31,31	0.83	1 (3%)	48,48,48	0.98	2 (4%)
2	POV	A	409	-	51,51,51	0.90	2 (3%)	57,59,59	0.72	1 (1%)
2	POV	A	325	-	51,51,51	0.84	2 (3%)	57,59,59	0.66	1 (1%)
2	POV	A	331	-	51,51,51	0.86	3 (5%)	57,59,59	0.69	2 (3%)
2	POV	B	315	-	51,51,51	0.94	2 (3%)	57,59,59	0.56	0
2	POV	B	345	-	51,51,51	0.91	2 (3%)	57,59,59	0.52	0
2	POV	A	321	-	51,51,51	0.91	2 (3%)	57,59,59	0.64	0
2	POV	B	363	-	51,51,51	0.89	2 (3%)	57,59,59	0.50	0
2	POV	B	389	-	51,51,51	0.88	2 (3%)	57,59,59	0.69	0
2	POV	A	310	-	51,51,51	0.88	2 (3%)	57,59,59	0.64	1 (1%)
2	POV	B	336	-	51,51,51	0.87	2 (3%)	57,59,59	0.59	0
2	POV	A	312	-	51,51,51	0.92	2 (3%)	57,59,59	0.60	1 (1%)
3	CLR	A	402	-	31,31,31	0.78	0	48,48,48	1.31	6 (12%)
2	POV	A	348	-	51,51,51	0.89	2 (3%)	57,59,59	0.54	0
2	POV	B	377	-	51,51,51	0.81	2 (3%)	57,59,59	0.63	0
2	POV	A	366	-	51,51,51	0.86	2 (3%)	57,59,59	0.77	2 (3%)
3	CLR	B	393	-	31,31,31	0.71	0	48,48,48	0.99	2 (4%)
2	POV	A	316	-	51,51,51	0.86	2 (3%)	57,59,59	0.68	2 (3%)
2	POV	B	356	-	51,51,51	0.90	2 (3%)	57,59,59	0.59	1 (1%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	POV	A	370	-	51,51,51	0.92	2 (3%)	57,59,59	0.54	0
2	POV	B	352	-	51,51,51	0.83	2 (3%)	57,59,59	0.58	1 (1%)
2	POV	B	375	-	51,51,51	0.91	2 (3%)	57,59,59	0.46	0
2	POV	A	364	-	51,51,51	0.85	2 (3%)	57,59,59	0.57	0
2	POV	A	392	-	51,51,51	0.88	2 (3%)	57,59,59	0.48	0
2	POV	A	324	-	51,51,51	0.90	2 (3%)	57,59,59	0.51	0
2	POV	B	307	-	51,51,51	0.92	2 (3%)	57,59,59	0.73	1 (1%)
2	POV	A	363	-	51,51,51	0.91	2 (3%)	57,59,59	0.54	0
2	POV	A	355	-	51,51,51	0.98	2 (3%)	57,59,59	0.62	1 (1%)
3	CLR	B	399	-	31,31,31	0.76	0	48,48,48	0.93	2 (4%)
2	POV	A	308	-	51,51,51	0.89	2 (3%)	57,59,59	0.54	0
2	POV	B	374	-	51,51,51	0.91	2 (3%)	57,59,59	0.63	1 (1%)
2	POV	B	353	-	51,51,51	0.85	2 (3%)	57,59,59	0.75	2 (3%)
2	POV	A	384	-	51,51,51	0.90	2 (3%)	57,59,59	0.79	2 (3%)
2	POV	A	379	-	51,51,51	0.85	2 (3%)	57,59,59	0.51	0
2	POV	A	350	-	51,51,51	0.87	2 (3%)	57,59,59	0.47	0
2	POV	A	399	-	51,51,51	0.91	2 (3%)	57,59,59	0.54	0
3	CLR	B	396	-	31,31,31	0.81	1 (3%)	48,48,48	1.16	5 (10%)
2	POV	A	378	-	51,51,51	0.88	2 (3%)	57,59,59	0.64	2 (3%)
2	POV	A	388	-	51,51,51	0.84	2 (3%)	57,59,59	0.48	0
2	POV	B	351	-	51,51,51	0.87	2 (3%)	57,59,59	0.66	1 (1%)
2	POV	A	382	-	51,51,51	0.90	2 (3%)	57,59,59	0.49	0
2	POV	A	303	-	51,51,51	0.89	2 (3%)	57,59,59	0.58	1 (1%)
2	POV	B	303	-	51,51,51	0.84	2 (3%)	57,59,59	0.49	0
3	CLR	B	398	-	31,31,31	0.77	0	48,48,48	0.91	3 (6%)
2	POV	A	376	-	51,51,51	0.87	2 (3%)	57,59,59	0.70	1 (1%)
2	POV	A	340	-	51,51,51	0.85	2 (3%)	57,59,59	0.56	0
2	POV	A	305	-	51,51,51	0.91	2 (3%)	57,59,59	0.65	1 (1%)
2	POV	A	415	-	51,51,51	0.86	3 (5%)	57,59,59	0.53	0
2	POV	B	329	-	51,51,51	0.88	2 (3%)	57,59,59	0.50	0
2	POV	B	382	-	51,51,51	0.87	2 (3%)	57,59,59	0.67	2 (3%)
2	POV	B	327	-	51,51,51	0.91	2 (3%)	57,59,59	0.66	1 (1%)
2	POV	B	348	-	51,51,51	0.87	2 (3%)	57,59,59	0.61	1 (1%)
2	POV	B	364	-	51,51,51	0.87	2 (3%)	57,59,59	0.56	0
2	POV	A	351	-	51,51,51	0.85	2 (3%)	57,59,59	0.59	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	POV	B	314	-	51,51,51	0.85	2 (3%)	57,59,59	0.55	0
2	POV	B	357	-	51,51,51	0.94	2 (3%)	57,59,59	0.73	1 (1%)
2	POV	B	309	-	51,51,51	0.85	2 (3%)	57,59,59	0.66	0
2	POV	A	318	-	51,51,51	0.91	2 (3%)	57,59,59	0.69	1 (1%)
2	POV	B	330	-	51,51,51	0.89	2 (3%)	57,59,59	0.50	0
2	POV	B	376	-	51,51,51	0.87	2 (3%)	57,59,59	0.52	0
2	POV	B	385	-	51,51,51	0.86	2 (3%)	57,59,59	0.52	0
2	POV	A	317	-	51,51,51	0.91	2 (3%)	57,59,59	0.51	0
2	POV	B	323	-	51,51,51	0.89	2 (3%)	57,59,59	0.70	2 (3%)
2	POV	B	349	-	51,51,51	0.88	2 (3%)	57,59,59	0.54	0
2	POV	A	332	-	51,51,51	0.85	2 (3%)	57,59,59	0.54	0
3	CLR	A	405	-	31,31,31	0.78	0	48,48,48	0.85	2 (4%)
2	POV	B	368	-	51,51,51	0.88	2 (3%)	57,59,59	0.69	1 (1%)
2	POV	B	370	-	51,51,51	0.93	2 (3%)	57,59,59	0.59	0
2	POV	B	310	-	51,51,51	0.92	2 (3%)	57,59,59	0.67	2 (3%)
2	POV	B	387	-	51,51,51	0.84	2 (3%)	57,59,59	0.54	0
2	POV	A	396	-	51,51,51	0.82	2 (3%)	57,59,59	0.56	0
3	CLR	B	394	-	31,31,31	0.87	1 (3%)	48,48,48	0.97	2 (4%)
2	POV	B	337	-	51,51,51	0.88	2 (3%)	57,59,59	0.62	1 (1%)
2	POV	A	361	-	51,51,51	0.87	2 (3%)	57,59,59	0.64	1 (1%)
2	POV	A	410	-	51,51,51	0.87	2 (3%)	57,59,59	0.55	0
2	POV	B	372	-	51,51,51	0.84	2 (3%)	57,59,59	0.59	0
2	POV	A	394	-	51,51,51	0.88	2 (3%)	57,59,59	0.50	0
2	POV	B	388	-	51,51,51	0.89	2 (3%)	57,59,59	0.64	1 (1%)
3	CLR	A	420	-	31,31,31	0.87	0	48,48,48	1.13	3 (6%)
2	POV	B	369	-	51,51,51	0.88	2 (3%)	57,59,59	0.59	0
2	POV	B	339	-	51,51,51	0.92	2 (3%)	57,59,59	0.84	3 (5%)
2	POV	A	349	-	51,51,51	0.85	2 (3%)	57,59,59	0.61	0
3	CLR	A	401	-	31,31,31	0.87	0	48,48,48	0.95	1 (2%)
2	POV	A	411	-	51,51,51	0.91	2 (3%)	57,59,59	0.71	2 (3%)
2	POV	A	309	-	51,51,51	0.88	2 (3%)	57,59,59	0.62	1 (1%)
2	POV	A	380	-	51,51,51	0.89	2 (3%)	57,59,59	0.47	0
2	POV	B	344	-	51,51,51	0.87	2 (3%)	57,59,59	0.63	0
2	POV	A	357	-	51,51,51	0.90	2 (3%)	57,59,59	0.66	1 (1%)
2	POV	B	346	-	51,51,51	0.88	2 (3%)	57,59,59	0.65	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	POV	A	304	-	51,51,51	0.87	2 (3%)	57,59,59	0.53	0
2	POV	A	417	-	51,51,51	0.88	2 (3%)	57,59,59	0.67	1 (1%)
2	POV	A	356	-	51,51,51	0.91	2 (3%)	57,59,59	0.60	0
2	POV	A	395	-	51,51,51	0.90	2 (3%)	57,59,59	0.69	1 (1%)
2	POV	A	339	-	51,51,51	0.90	2 (3%)	57,59,59	0.51	0
2	POV	A	313	-	51,51,51	0.88	2 (3%)	57,59,59	0.54	0
2	POV	B	331	-	51,51,51	0.89	2 (3%)	57,59,59	0.83	2 (3%)
2	POV	A	385	-	51,51,51	0.88	2 (3%)	57,59,59	0.51	0
2	POV	B	305	-	51,51,51	0.87	2 (3%)	57,59,59	0.53	0
2	POV	A	371	-	51,51,51	0.85	2 (3%)	57,59,59	0.56	0
2	POV	A	358	-	51,51,51	0.86	2 (3%)	57,59,59	0.61	1 (1%)
2	POV	A	326	-	51,51,51	0.88	2 (3%)	57,59,59	0.54	0
2	POV	A	319	-	51,51,51	0.87	2 (3%)	57,59,59	0.68	1 (1%)
2	POV	A	365	-	51,51,51	0.89	2 (3%)	57,59,59	0.62	0
2	POV	A	387	-	51,51,51	0.88	2 (3%)	57,59,59	0.64	0
2	POV	A	373	-	51,51,51	0.88	2 (3%)	57,59,59	0.50	0
2	POV	B	366	-	51,51,51	0.87	2 (3%)	57,59,59	0.66	0
2	POV	A	374	-	51,51,51	0.90	2 (3%)	57,59,59	0.68	0
2	POV	B	308	-	51,51,51	0.84	2 (3%)	57,59,59	0.49	0
2	POV	B	328	-	51,51,51	0.90	2 (3%)	57,59,59	0.50	0
2	POV	B	343	-	51,51,51	0.92	2 (3%)	57,59,59	0.55	0
2	POV	B	316	-	51,51,51	0.86	2 (3%)	57,59,59	0.59	0
2	POV	B	340	-	51,51,51	0.88	3 (5%)	57,59,59	0.78	2 (3%)
2	POV	A	397	-	51,51,51	0.87	2 (3%)	57,59,59	0.53	0
2	POV	B	334	-	51,51,51	0.89	2 (3%)	57,59,59	0.80	1 (1%)
2	POV	A	344	-	51,51,51	0.94	2 (3%)	57,59,59	0.62	0
2	POV	B	355	-	51,51,51	0.84	2 (3%)	57,59,59	0.53	0
2	POV	A	369	-	51,51,51	0.89	2 (3%)	57,59,59	0.62	1 (1%)
3	CLR	B	392	-	31,31,31	0.74	0	48,48,48	1.25	5 (10%)
2	POV	A	345	-	51,51,51	0.90	2 (3%)	57,59,59	0.66	1 (1%)
2	POV	A	386	-	51,51,51	0.92	2 (3%)	57,59,59	0.48	0
2	POV	A	314	-	51,51,51	0.91	2 (3%)	57,59,59	0.61	1 (1%)
2	POV	B	358	-	51,51,51	0.85	2 (3%)	57,59,59	0.79	1 (1%)
2	POV	B	342	-	51,51,51	0.90	2 (3%)	57,59,59	0.56	0
2	POV	A	391	-	51,51,51	0.90	2 (3%)	57,59,59	0.63	1 (1%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	POV	B	338	-	51,51,51	0.87	2 (3%)	57,59,59	0.62	0
2	POV	B	304	-	51,51,51	0.87	2 (3%)	57,59,59	0.63	1 (1%)
2	POV	A	337	-	51,51,51	0.87	2 (3%)	57,59,59	0.57	0
2	POV	B	335	-	51,51,51	0.89	2 (3%)	57,59,59	0.51	0
2	POV	B	383	-	51,51,51	0.88	2 (3%)	57,59,59	0.65	1 (1%)
2	POV	B	311	-	51,51,51	0.95	2 (3%)	57,59,59	0.54	1 (1%)

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
2	POV	A	408	-	-	14/55/55/55	-
2	POV	A	353	-	-	13/55/55/55	-
2	POV	A	393	-	-	17/55/55/55	-
2	POV	A	328	-	-	9/55/55/55	-
2	POV	B	371	-	-	13/55/55/55	-
2	POV	A	368	-	1/1/5/7	10/55/55/55	-
3	CLR	B	395	-	-	0/10/68/68	0/4/4/4
2	POV	B	386	-	-	8/55/55/55	-
2	POV	B	319	-	-	11/55/55/55	-
3	CLR	A	421	-	-	2/10/68/68	0/4/4/4
2	POV	B	350	-	-	9/55/55/55	-
2	POV	A	352	-	-	13/55/55/55	-
2	POV	A	315	-	-	13/55/55/55	-
2	POV	B	361	-	-	15/55/55/55	-
2	POV	B	301	-	-	7/55/55/55	-
2	POV	B	322	-	-	11/55/55/55	-
2	POV	A	389	-	-	14/55/55/55	-
2	POV	A	377	-	-	7/55/55/55	-
2	POV	A	354	-	-	18/55/55/55	-
2	POV	B	359	-	-	9/55/55/55	-
2	POV	A	307	-	-	6/55/55/55	-
2	POV	B	367	-	1/1/5/7	11/55/55/55	-
2	POV	A	301	-	-	11/55/55/55	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	POV	B	317	-	-	12/55/55/55	-
2	POV	A	375	-	-	8/55/55/55	-
3	CLR	A	418	-	-	2/10/68/68	0/4/4/4
2	POV	B	381	-	-	16/55/55/55	-
2	POV	B	365	-	-	9/55/55/55	-
2	POV	A	367	-	-	4/55/55/55	-
2	POV	A	407	-	-	8/55/55/55	-
3	CLR	B	391	-	-	0/10/68/68	0/4/4/4
2	POV	A	381	-	-	8/55/55/55	-
2	POV	A	346	-	-	9/55/55/55	-
2	POV	A	333	-	-	5/55/55/55	-
2	POV	B	325	-	-	5/55/55/55	-
2	POV	A	341	-	-	10/55/55/55	-
2	POV	B	347	-	1/1/5/7	13/55/55/55	-
2	POV	B	326	-	-	12/55/55/55	-
2	POV	B	312	-	-	11/55/55/55	-
2	POV	B	379	-	-	15/55/55/55	-
2	POV	A	322	-	1/1/5/7	12/55/55/55	-
2	POV	A	360	-	-	10/55/55/55	-
2	POV	A	400	-	1/1/5/7	10/55/55/55	-
2	POV	B	333	-	-	10/55/55/55	-
2	POV	A	347	-	-	15/55/55/55	-
2	POV	A	323	-	-	10/55/55/55	-
2	POV	A	343	-	-	8/55/55/55	-
2	POV	B	324	-	-	11/55/55/55	-
2	POV	A	336	-	-	12/55/55/55	-
2	POV	A	334	-	-	14/55/55/55	-
2	POV	A	362	-	-	13/55/55/55	-
2	POV	A	311	-	-	17/55/55/55	-
2	POV	B	313	-	-	11/55/55/55	-
2	POV	B	384	-	-	12/55/55/55	-
2	POV	A	330	-	-	7/55/55/55	-
3	CLR	A	403	-	-	0/10/68/68	0/4/4/4
2	POV	A	372	-	-	9/55/55/55	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	POV	A	306	-	-	6/55/55/55	-
2	POV	A	390	-	-	11/55/55/55	-
2	POV	B	373	-	-	15/55/55/55	-
2	POV	A	342	-	-	6/55/55/55	-
3	CLR	A	419	-	-	1/10/68/68	0/4/4/4
2	POV	A	416	-	-	8/55/55/55	-
2	POV	A	329	-	-	11/55/55/55	-
2	POV	B	354	-	-	9/55/55/55	-
3	CLR	B	397	-	-	0/10/68/68	0/4/4/4
2	POV	A	359	-	-	17/55/55/55	-
2	POV	A	413	-	-	9/55/55/55	-
2	POV	B	306	-	-	11/55/55/55	-
2	POV	B	378	-	-	16/55/55/55	-
2	POV	A	335	-	-	10/55/55/55	-
2	POV	B	360	-	-	15/55/55/55	-
2	POV	A	302	-	-	11/55/55/55	-
2	POV	B	302	-	-	17/55/55/55	-
2	POV	B	380	-	-	11/55/55/55	-
2	POV	B	341	-	-	15/55/55/55	-
2	POV	B	362	-	1/1/5/7	11/55/55/55	-
2	POV	A	338	-	-	11/55/55/55	-
2	POV	A	383	-	1/1/5/7	9/55/55/55	-
2	POV	B	318	-	-	12/55/55/55	-
2	POV	A	412	-	-	7/55/55/55	-
2	POV	B	332	-	-	11/55/55/55	-
2	POV	A	320	-	-	11/55/55/55	-
3	CLR	A	406	-	-	0/10/68/68	0/4/4/4
3	CLR	B	390	-	-	2/10/68/68	0/4/4/4
2	POV	A	327	-	-	15/55/55/55	-
2	POV	B	321	-	1/1/5/7	9/55/55/55	-
2	POV	A	414	-	-	8/55/55/55	-
2	POV	A	398	-	-	9/55/55/55	-
2	POV	B	320	-	-	12/55/55/55	-
3	CLR	A	404	-	-	3/10/68/68	0/4/4/4
2	POV	A	409	-	-	12/55/55/55	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	POV	A	325	-	-	15/55/55/55	-
2	POV	A	331	-	-	15/55/55/55	-
2	POV	B	315	-	-	5/55/55/55	-
2	POV	B	345	-	-	12/55/55/55	-
2	POV	A	321	-	-	11/55/55/55	-
2	POV	B	363	-	-	3/55/55/55	-
2	POV	B	389	-	-	10/55/55/55	-
2	POV	A	310	-	-	11/55/55/55	-
2	POV	B	336	-	-	12/55/55/55	-
2	POV	A	312	-	-	9/55/55/55	-
3	CLR	A	402	-	-	4/10/68/68	0/4/4/4
2	POV	A	348	-	-	14/55/55/55	-
2	POV	B	377	-	-	7/55/55/55	-
2	POV	A	366	-	-	9/55/55/55	-
3	CLR	B	393	-	-	0/10/68/68	0/4/4/4
2	POV	A	316	-	1/1/5/7	4/55/55/55	-
2	POV	B	356	-	-	6/55/55/55	-
2	POV	A	370	-	-	13/55/55/55	-
2	POV	B	352	-	-	9/55/55/55	-
2	POV	B	375	-	-	6/55/55/55	-
2	POV	A	364	-	-	11/55/55/55	-
2	POV	A	392	-	-	8/55/55/55	-
2	POV	A	324	-	-	11/55/55/55	-
2	POV	B	307	-	-	15/55/55/55	-
2	POV	A	363	-	-	14/55/55/55	-
2	POV	A	355	-	-	7/55/55/55	-
3	CLR	B	399	-	-	4/10/68/68	0/4/4/4
2	POV	A	308	-	1/1/5/7	8/55/55/55	-
2	POV	B	374	-	-	18/55/55/55	-
2	POV	B	353	-	-	6/55/55/55	-
2	POV	A	384	-	-	17/55/55/55	-
2	POV	A	379	-	-	6/55/55/55	-
2	POV	A	350	-	-	10/55/55/55	-
2	POV	A	399	-	-	13/55/55/55	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	CLR	B	396	-	-	5/10/68/68	0/4/4/4
2	POV	A	378	-	1/1/5/7	16/55/55/55	-
2	POV	A	388	-	-	6/55/55/55	-
2	POV	B	351	-	-	6/55/55/55	-
2	POV	A	382	-	-	12/55/55/55	-
2	POV	A	303	-	-	11/55/55/55	-
2	POV	B	303	-	1/1/5/7	9/55/55/55	-
3	CLR	B	398	-	-	1/10/68/68	0/4/4/4
2	POV	A	376	-	-	15/55/55/55	-
2	POV	A	340	-	-	9/55/55/55	-
2	POV	A	305	-	-	9/55/55/55	-
2	POV	A	415	-	-	15/55/55/55	-
2	POV	B	329	-	1/1/5/7	6/55/55/55	-
2	POV	B	382	-	-	15/55/55/55	-
2	POV	B	327	-	-	12/55/55/55	-
2	POV	B	348	-	-	8/55/55/55	-
2	POV	B	364	-	1/1/5/7	10/55/55/55	-
2	POV	A	351	-	-	10/55/55/55	-
2	POV	B	314	-	-	10/55/55/55	-
2	POV	B	357	-	-	12/55/55/55	-
2	POV	B	309	-	-	7/55/55/55	-
2	POV	A	318	-	1/1/5/7	11/55/55/55	-
2	POV	B	330	-	1/1/5/7	14/55/55/55	-
2	POV	B	376	-	-	8/55/55/55	-
2	POV	B	385	-	-	8/55/55/55	-
2	POV	A	317	-	-	12/55/55/55	-
2	POV	B	323	-	-	13/55/55/55	-
2	POV	B	349	-	-	10/55/55/55	-
2	POV	A	332	-	-	10/55/55/55	-
3	CLR	A	405	-	-	2/10/68/68	0/4/4/4
2	POV	B	368	-	-	9/55/55/55	-
2	POV	B	370	-	-	11/55/55/55	-
2	POV	B	310	-	-	8/55/55/55	-
2	POV	B	387	-	-	9/55/55/55	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	POV	A	396	-	-	13/55/55/55	-
3	CLR	B	394	-	-	0/10/68/68	0/4/4/4
2	POV	B	337	-	-	3/55/55/55	-
2	POV	A	361	-	-	6/55/55/55	-
2	POV	A	410	-	1/1/5/7	8/55/55/55	-
2	POV	B	372	-	-	7/55/55/55	-
2	POV	A	394	-	-	13/55/55/55	-
2	POV	B	388	-	-	12/55/55/55	-
3	CLR	A	420	-	-	1/10/68/68	0/4/4/4
2	POV	B	369	-	-	12/55/55/55	-
2	POV	B	339	-	-	13/55/55/55	-
2	POV	A	349	-	-	10/55/55/55	-
3	CLR	A	401	-	-	0/10/68/68	0/4/4/4
2	POV	A	411	-	-	16/55/55/55	-
2	POV	A	309	-	-	6/55/55/55	-
2	POV	A	380	-	1/1/5/7	12/55/55/55	-
2	POV	B	344	-	-	10/55/55/55	-
2	POV	A	357	-	-	9/55/55/55	-
2	POV	B	346	-	1/1/5/7	13/55/55/55	-
2	POV	A	304	-	-	10/55/55/55	-
2	POV	A	417	-	-	6/55/55/55	-
2	POV	A	356	-	-	13/55/55/55	-
2	POV	A	395	-	-	13/55/55/55	-
2	POV	A	339	-	-	13/55/55/55	-
2	POV	A	313	-	-	16/55/55/55	-
2	POV	B	331	-	-	15/55/55/55	-
2	POV	A	385	-	1/1/5/7	8/55/55/55	-
2	POV	B	305	-	-	8/55/55/55	-
2	POV	A	371	-	-	10/55/55/55	-
2	POV	A	358	-	-	9/55/55/55	-
2	POV	A	326	-	1/1/5/7	9/55/55/55	-
2	POV	A	319	-	1/1/5/7	11/55/55/55	-
2	POV	A	365	-	1/1/5/7	14/55/55/55	-
2	POV	A	387	-	-	9/55/55/55	-
2	POV	A	373	-	-	6/55/55/55	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	POV	B	366	-	-	10/55/55/55	-
2	POV	A	374	-	-	7/55/55/55	-
2	POV	B	308	-	-	6/55/55/55	-
2	POV	B	328	-	1/1/5/7	8/55/55/55	-
2	POV	B	343	-	-	13/55/55/55	-
2	POV	B	316	-	-	7/55/55/55	-
2	POV	B	340	-	-	11/55/55/55	-
2	POV	A	397	-	-	10/55/55/55	-
2	POV	B	334	-	-	12/55/55/55	-
2	POV	A	344	-	-	9/55/55/55	-
2	POV	B	355	-	-	11/55/55/55	-
2	POV	A	369	-	-	10/55/55/55	-
3	CLR	B	392	-	-	4/10/68/68	0/4/4/4
2	POV	A	345	-	-	9/55/55/55	-
2	POV	A	386	-	-	9/55/55/55	-
2	POV	A	314	-	-	9/55/55/55	-
2	POV	B	358	-	-	19/55/55/55	-
2	POV	B	342	-	-	7/55/55/55	-
2	POV	A	391	-	-	8/55/55/55	-
2	POV	B	338	-	-	11/55/55/55	-
2	POV	B	304	-	-	13/55/55/55	-
2	POV	A	337	-	-	4/55/55/55	-
2	POV	B	335	-	-	6/55/55/55	-
2	POV	B	383	-	-	12/55/55/55	-
2	POV	B	311	-	-	15/55/55/55	-

All (410) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	344	POV	O31-C3	-3.56	1.37	1.45
2	B	370	POV	O31-C3	-3.54	1.37	1.45
2	B	315	POV	O21-C2	-3.53	1.37	1.46
2	A	317	POV	O21-C2	-3.53	1.37	1.46
2	B	341	POV	O21-C2	-3.51	1.37	1.46
2	B	362	POV	O21-C2	-3.50	1.37	1.46
2	B	324	POV	O21-C2	-3.49	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	308	POV	O21-C2	-3.47	1.37	1.46
2	A	387	POV	O21-C2	-3.45	1.37	1.46
2	A	365	POV	O31-C3	-3.45	1.37	1.45
2	A	314	POV	O21-C2	-3.42	1.38	1.46
2	A	355	POV	O21-C2	-3.42	1.38	1.46
2	B	311	POV	O21-C2	-3.41	1.38	1.46
2	A	348	POV	O31-C3	-3.37	1.37	1.45
2	A	408	POV	O21-C2	-3.36	1.38	1.46
2	B	321	POV	O31-C3	-3.36	1.37	1.45
2	A	386	POV	O21-C2	-3.36	1.38	1.46
2	A	377	POV	O31-C3	-3.34	1.37	1.45
2	B	323	POV	O31-C3	-3.32	1.37	1.45
2	A	334	POV	O21-C2	-3.32	1.38	1.46
2	B	339	POV	O21-C2	-3.32	1.38	1.46
2	B	342	POV	O31-C3	-3.32	1.37	1.45
2	B	381	POV	O31-C3	-3.31	1.37	1.45
2	B	373	POV	O21-C2	-3.31	1.38	1.46
2	A	383	POV	O31-C3	-3.30	1.37	1.45
2	A	383	POV	O21-C2	-3.30	1.38	1.46
2	A	339	POV	O31-C3	-3.30	1.37	1.45
2	B	389	POV	O31-C3	-3.29	1.37	1.45
2	B	375	POV	O31-C3	-3.29	1.37	1.45
2	A	411	POV	O21-C2	-3.29	1.38	1.46
2	A	373	POV	O21-C2	-3.29	1.38	1.46
2	A	390	POV	O31-C3	-3.29	1.37	1.45
2	B	335	POV	O21-C2	-3.28	1.38	1.46
2	B	306	POV	O21-C2	-3.28	1.38	1.46
2	B	343	POV	O21-C2	-3.28	1.38	1.46
2	B	346	POV	O21-C2	-3.28	1.38	1.46
2	A	357	POV	O21-C2	-3.27	1.38	1.46
2	B	369	POV	O21-C2	-3.27	1.38	1.46
2	A	333	POV	O21-C2	-3.26	1.38	1.46
2	B	371	POV	O31-C3	-3.26	1.37	1.45
2	A	334	POV	O31-C3	-3.26	1.37	1.45
2	A	312	POV	O31-C3	-3.26	1.37	1.45
2	A	392	POV	O31-C3	-3.26	1.37	1.45
2	B	320	POV	O21-C2	-3.26	1.38	1.46
2	A	395	POV	O31-C3	-3.25	1.37	1.45
2	A	333	POV	O31-C3	-3.25	1.37	1.45
2	B	327	POV	O31-C3	-3.25	1.37	1.45
2	B	311	POV	O31-C3	-3.25	1.37	1.45
2	B	388	POV	O31-C3	-3.25	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	355	POV	O31-C3	-3.25	1.37	1.45
2	A	409	POV	O21-C2	-3.24	1.38	1.46
2	B	315	POV	O31-C3	-3.24	1.37	1.45
2	A	328	POV	O31-C3	-3.24	1.37	1.45
2	B	359	POV	O31-C3	-3.24	1.37	1.45
2	A	360	POV	O31-C3	-3.24	1.37	1.45
2	B	354	POV	O21-C2	-3.23	1.38	1.46
2	B	350	POV	O31-C3	-3.23	1.37	1.45
2	B	350	POV	O21-C2	-3.23	1.38	1.46
2	B	322	POV	O31-C3	-3.23	1.37	1.45
2	A	368	POV	O21-C2	-3.23	1.38	1.46
2	B	367	POV	O21-C2	-3.23	1.38	1.46
2	A	303	POV	O21-C2	-3.23	1.38	1.46
2	A	327	POV	O31-C3	-3.22	1.37	1.45
2	A	367	POV	O31-C3	-3.22	1.37	1.45
2	A	376	POV	O31-C3	-3.22	1.37	1.45
2	B	356	POV	O21-C2	-3.22	1.38	1.46
2	B	373	POV	O31-C3	-3.22	1.37	1.45
2	A	382	POV	O21-C2	-3.22	1.38	1.46
2	B	372	POV	O21-C2	-3.22	1.38	1.46
2	A	391	POV	O21-C2	-3.22	1.38	1.46
2	A	312	POV	O21-C2	-3.22	1.38	1.46
2	B	337	POV	O21-C2	-3.21	1.38	1.46
2	A	354	POV	O21-C2	-3.20	1.38	1.46
2	B	332	POV	O31-C3	-3.20	1.37	1.45
2	B	324	POV	O31-C3	-3.20	1.37	1.45
2	A	350	POV	O31-C3	-3.20	1.37	1.45
2	A	399	POV	O31-C3	-3.20	1.37	1.45
2	A	413	POV	O21-C2	-3.20	1.38	1.46
2	A	324	POV	O21-C2	-3.20	1.38	1.46
2	A	311	POV	O21-C2	-3.20	1.38	1.46
2	A	327	POV	O21-C2	-3.20	1.38	1.46
2	B	331	POV	O21-C2	-3.20	1.38	1.46
2	A	323	POV	O31-C3	-3.20	1.37	1.45
2	B	307	POV	O31-C3	-3.20	1.37	1.45
2	B	385	POV	O31-C3	-3.20	1.37	1.45
2	A	397	POV	O21-C2	-3.19	1.38	1.46
2	A	326	POV	O31-C3	-3.19	1.37	1.45
2	A	326	POV	O21-C2	-3.19	1.38	1.46
2	B	331	POV	O31-C3	-3.19	1.37	1.45
2	B	386	POV	O21-C2	-3.19	1.38	1.46
2	B	330	POV	O21-C2	-3.19	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	342	POV	O21-C2	-3.18	1.38	1.46
2	B	301	POV	O21-C2	-3.18	1.38	1.46
2	B	322	POV	O21-C2	-3.18	1.38	1.46
2	A	361	POV	O21-C2	-3.18	1.38	1.46
2	B	306	POV	O31-C3	-3.18	1.37	1.45
2	A	345	POV	O31-C3	-3.17	1.37	1.45
2	A	338	POV	O31-C3	-3.17	1.37	1.45
2	B	321	POV	O21-C2	-3.17	1.38	1.46
2	A	336	POV	O21-C2	-3.16	1.38	1.46
2	B	363	POV	O21-C2	-3.16	1.38	1.46
2	B	364	POV	O21-C2	-3.16	1.38	1.46
2	B	329	POV	O21-C2	-3.16	1.38	1.46
2	A	393	POV	O21-C2	-3.16	1.38	1.46
2	A	389	POV	O21-C2	-3.16	1.38	1.46
2	B	320	POV	O31-C3	-3.16	1.37	1.45
2	B	345	POV	O21-C2	-3.16	1.38	1.46
2	A	350	POV	O21-C2	-3.16	1.38	1.46
2	B	346	POV	O31-C3	-3.15	1.38	1.45
2	A	412	POV	O21-C2	-3.15	1.38	1.46
2	A	369	POV	O21-C2	-3.15	1.38	1.46
2	B	383	POV	O31-C3	-3.15	1.38	1.45
2	A	384	POV	O21-C2	-3.14	1.38	1.46
2	B	376	POV	O21-C2	-3.14	1.38	1.46
2	A	344	POV	O21-C2	-3.14	1.38	1.46
2	A	360	POV	O21-C2	-3.14	1.38	1.46
2	A	338	POV	O21-C2	-3.14	1.38	1.46
2	A	324	POV	O31-C3	-3.14	1.38	1.45
2	B	310	POV	O31-C3	-3.14	1.38	1.45
2	A	315	POV	O31-C3	-3.13	1.38	1.45
2	B	338	POV	O21-C2	-3.13	1.38	1.46
2	A	362	POV	O21-C2	-3.13	1.38	1.46
2	B	304	POV	O21-C2	-3.13	1.38	1.46
2	A	341	POV	O31-C3	-3.13	1.38	1.45
2	A	301	POV	O31-C3	-3.13	1.38	1.45
2	B	329	POV	O31-C3	-3.13	1.38	1.45
2	A	337	POV	O31-C3	-3.13	1.38	1.45
2	A	398	POV	O21-C2	-3.13	1.38	1.46
2	B	342	POV	O21-C2	-3.13	1.38	1.46
2	B	319	POV	O31-C3	-3.12	1.38	1.45
2	A	379	POV	O31-C3	-3.12	1.38	1.45
2	A	358	POV	O21-C2	-3.11	1.38	1.46
2	B	381	POV	O21-C2	-3.11	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	301	POV	O21-C2	-3.11	1.38	1.46
2	B	353	POV	O31-C3	-3.10	1.38	1.45
2	A	332	POV	O21-C2	-3.10	1.38	1.46
2	B	370	POV	O21-C2	-3.10	1.38	1.46
2	B	376	POV	O31-C3	-3.10	1.38	1.45
2	A	309	POV	O31-C3	-3.10	1.38	1.45
2	B	326	POV	O21-C2	-3.09	1.38	1.46
2	A	363	POV	O31-C3	-3.09	1.38	1.45
2	B	380	POV	O21-C2	-3.09	1.38	1.46
2	A	329	POV	O21-C2	-3.09	1.38	1.46
2	A	316	POV	O21-C2	-3.09	1.38	1.46
2	B	348	POV	O21-C2	-3.09	1.38	1.46
2	B	308	POV	O21-C2	-3.09	1.38	1.46
2	A	382	POV	O31-C3	-3.09	1.38	1.45
2	B	328	POV	O31-C3	-3.09	1.38	1.45
2	A	352	POV	O31-C3	-3.09	1.38	1.45
2	A	378	POV	O31-C3	-3.09	1.38	1.45
2	A	361	POV	O31-C3	-3.09	1.38	1.45
2	A	377	POV	O21-C2	-3.09	1.38	1.46
2	B	365	POV	O21-C2	-3.09	1.38	1.46
2	B	344	POV	O31-C3	-3.08	1.38	1.45
2	A	400	POV	O21-C2	-3.08	1.38	1.46
2	B	355	POV	O21-C2	-3.08	1.38	1.46
2	B	354	POV	O31-C3	-3.08	1.38	1.45
2	A	305	POV	O31-C3	-3.08	1.38	1.45
2	A	328	POV	O21-C2	-3.08	1.38	1.46
2	A	375	POV	O21-C2	-3.08	1.38	1.46
2	A	363	POV	O21-C2	-3.08	1.38	1.46
2	B	316	POV	O21-C2	-3.08	1.38	1.46
2	A	307	POV	O31-C3	-3.08	1.38	1.45
2	B	345	POV	O31-C3	-3.08	1.38	1.45
2	A	308	POV	O31-C3	-3.08	1.38	1.45
2	B	361	POV	O31-C3	-3.08	1.38	1.45
2	B	335	POV	O31-C3	-3.08	1.38	1.45
2	A	341	POV	O21-C2	-3.07	1.38	1.46
2	A	369	POV	O31-C3	-3.07	1.38	1.45
2	B	386	POV	O31-C3	-3.07	1.38	1.45
2	A	331	POV	O31-C3	-3.07	1.38	1.45
2	A	416	POV	O21-C2	-3.07	1.38	1.46
2	A	356	POV	O31-C3	-3.07	1.38	1.45
2	A	398	POV	O31-C3	-3.06	1.38	1.45
2	A	407	POV	O31-C3	-3.06	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	349	POV	O21-C2	-3.06	1.38	1.46
2	A	413	POV	O31-C3	-3.06	1.38	1.45
2	A	368	POV	O31-C3	-3.06	1.38	1.45
2	A	380	POV	O31-C3	-3.06	1.38	1.45
2	B	333	POV	O21-C2	-3.06	1.38	1.46
2	A	394	POV	O31-C3	-3.06	1.38	1.45
2	A	362	POV	O31-C3	-3.05	1.38	1.45
2	A	304	POV	O31-C3	-3.05	1.38	1.45
2	A	417	POV	O31-C3	-3.05	1.38	1.45
2	A	320	POV	O31-C3	-3.05	1.38	1.45
2	B	327	POV	O21-C2	-3.05	1.39	1.46
2	B	336	POV	O21-C2	-3.05	1.39	1.46
2	A	367	POV	O21-C2	-3.04	1.39	1.46
2	A	305	POV	O21-C2	-3.04	1.39	1.46
2	A	364	POV	O31-C3	-3.04	1.38	1.45
2	B	316	POV	O31-C3	-3.04	1.38	1.45
2	A	303	POV	O31-C3	-3.04	1.38	1.45
2	A	414	POV	O21-C2	-3.04	1.39	1.46
2	B	312	POV	O21-C2	-3.04	1.39	1.46
2	A	335	POV	O21-C2	-3.03	1.39	1.46
2	B	365	POV	O31-C3	-3.03	1.38	1.45
2	A	304	POV	O21-C2	-3.03	1.39	1.46
2	A	319	POV	O21-C2	-3.03	1.39	1.46
2	A	412	POV	O31-C3	-3.03	1.38	1.45
2	A	410	POV	O31-C3	-3.03	1.38	1.45
2	A	356	POV	O21-C2	-3.02	1.39	1.46
2	A	318	POV	O21-C2	-3.02	1.39	1.46
2	B	383	POV	O21-C2	-3.02	1.39	1.46
2	B	366	POV	O31-C3	-3.02	1.38	1.45
2	A	357	POV	O31-C3	-3.02	1.38	1.45
2	B	371	POV	O21-C2	-3.02	1.39	1.46
2	B	356	POV	O31-C3	-3.02	1.38	1.45
2	A	320	POV	O21-C2	-3.01	1.39	1.46
2	B	358	POV	O21-C2	-3.01	1.39	1.46
2	B	367	POV	O31-C3	-3.01	1.38	1.45
2	B	341	POV	O31-C3	-3.01	1.38	1.45
2	B	330	POV	O31-C3	-3.01	1.38	1.45
2	A	343	POV	O31-C3	-3.01	1.38	1.45
2	B	333	POV	O31-C3	-3.01	1.38	1.45
2	A	323	POV	O21-C2	-3.01	1.39	1.46
2	A	359	POV	O21-C2	-3.01	1.39	1.46
2	B	375	POV	O21-C2	-3.01	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	396	POV	O21-C2	-3.01	1.39	1.46
2	A	319	POV	O31-C3	-3.01	1.38	1.45
2	A	393	POV	O31-C3	-3.00	1.38	1.45
2	A	372	POV	O21-C2	-3.00	1.39	1.46
2	B	351	POV	O21-C2	-3.00	1.39	1.46
2	A	399	POV	O21-C2	-3.00	1.39	1.46
2	A	370	POV	O31-C3	-3.00	1.38	1.45
2	B	344	POV	O21-C2	-3.00	1.39	1.46
2	A	354	POV	O31-C3	-3.00	1.38	1.45
2	A	387	POV	O31-C3	-2.99	1.38	1.45
2	A	321	POV	O21-C2	-2.99	1.39	1.46
2	A	306	POV	O21-C2	-2.99	1.39	1.46
2	A	348	POV	O21-C2	-2.99	1.39	1.46
2	A	384	POV	O31-C3	-2.99	1.38	1.45
2	A	358	POV	O31-C3	-2.99	1.38	1.45
2	B	319	POV	O21-C2	-2.99	1.39	1.46
2	A	343	POV	O21-C2	-2.99	1.39	1.46
2	B	359	POV	O21-C2	-2.99	1.39	1.46
2	A	364	POV	O21-C2	-2.99	1.39	1.46
2	A	409	POV	O31-C3	-2.99	1.38	1.45
2	A	415	POV	O21-C2	-2.98	1.39	1.46
2	A	336	POV	O31-C3	-2.98	1.38	1.45
2	B	347	POV	O21-C2	-2.98	1.39	1.46
2	A	366	POV	O21-C2	-2.97	1.39	1.46
2	B	340	POV	O21-C2	-2.97	1.39	1.46
2	B	360	POV	O31-C3	-2.97	1.38	1.45
2	A	310	POV	O21-C2	-2.97	1.39	1.46
2	B	323	POV	O21-C2	-2.97	1.39	1.46
2	A	385	POV	O21-C2	-2.97	1.39	1.46
2	B	347	POV	O31-C3	-2.97	1.38	1.45
2	B	363	POV	O31-C3	-2.97	1.38	1.45
2	B	379	POV	O21-C2	-2.97	1.39	1.46
2	B	325	POV	O21-C2	-2.96	1.39	1.46
2	A	390	POV	O21-C2	-2.96	1.39	1.46
2	B	384	POV	O31-C3	-2.96	1.38	1.45
2	A	381	POV	O21-C2	-2.96	1.39	1.46
2	A	347	POV	O21-C2	-2.96	1.39	1.46
2	B	332	POV	O21-C2	-2.96	1.39	1.46
2	B	303	POV	O21-C2	-2.96	1.39	1.46
2	A	378	POV	O21-C2	-2.96	1.39	1.46
2	B	357	POV	O21-C2	-2.96	1.39	1.46
2	A	395	POV	O21-C2	-2.96	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	389	POV	O21-C2	-2.95	1.39	1.46
2	A	375	POV	O31-C3	-2.95	1.38	1.45
2	A	397	POV	O31-C3	-2.95	1.38	1.45
2	A	314	POV	O31-C3	-2.95	1.38	1.45
2	A	346	POV	O21-C2	-2.95	1.39	1.46
2	B	378	POV	O21-C2	-2.95	1.39	1.46
2	B	366	POV	O21-C2	-2.95	1.39	1.46
2	A	302	POV	O21-C2	-2.95	1.39	1.46
2	B	318	POV	O21-C2	-2.95	1.39	1.46
2	A	408	POV	O31-C3	-2.94	1.38	1.45
2	A	313	POV	O31-C3	-2.94	1.38	1.45
2	B	317	POV	O31-C3	-2.94	1.38	1.45
2	B	351	POV	O31-C3	-2.94	1.38	1.45
2	A	370	POV	O21-C2	-2.94	1.39	1.46
2	A	313	POV	O21-C2	-2.94	1.39	1.46
2	A	381	POV	O31-C3	-2.94	1.38	1.45
2	B	328	POV	O21-C2	-2.94	1.39	1.46
2	A	322	POV	O31-C3	-2.93	1.38	1.45
2	B	374	POV	O21-C2	-2.93	1.39	1.46
2	B	310	POV	O21-C2	-2.93	1.39	1.46
2	A	394	POV	O21-C2	-2.93	1.39	1.46
2	A	347	POV	O31-C3	-2.93	1.38	1.45
2	B	308	POV	O31-C3	-2.93	1.38	1.45
2	B	301	POV	O31-C3	-2.93	1.38	1.45
2	A	400	POV	O31-C3	-2.93	1.38	1.45
2	A	410	POV	O21-C2	-2.93	1.39	1.46
2	B	334	POV	O21-C2	-2.93	1.39	1.46
2	A	411	POV	O31-C3	-2.92	1.38	1.45
2	A	386	POV	O31-C3	-2.92	1.38	1.45
2	B	349	POV	O21-C2	-2.92	1.39	1.46
2	A	371	POV	O21-C2	-2.92	1.39	1.46
2	A	345	POV	O21-C2	-2.92	1.39	1.46
2	B	317	POV	O21-C2	-2.92	1.39	1.46
2	B	374	POV	O31-C3	-2.92	1.38	1.45
2	A	374	POV	O31-C3	-2.92	1.38	1.45
2	A	353	POV	O21-C2	-2.92	1.39	1.46
2	B	382	POV	O31-C3	-2.91	1.38	1.45
2	A	317	POV	O31-C3	-2.91	1.38	1.45
2	B	314	POV	O21-C2	-2.91	1.39	1.46
2	B	385	POV	O21-C2	-2.91	1.39	1.46
2	A	388	POV	O31-C3	-2.91	1.38	1.45
2	A	332	POV	O31-C3	-2.91	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	305	POV	O31-C3	-2.91	1.38	1.45
2	B	305	POV	O21-C2	-2.91	1.39	1.46
2	A	321	POV	O31-C3	-2.91	1.38	1.45
2	B	325	POV	O31-C3	-2.90	1.38	1.45
2	B	352	POV	O21-C2	-2.90	1.39	1.46
2	B	349	POV	O31-C3	-2.90	1.38	1.45
2	A	388	POV	O21-C2	-2.90	1.39	1.46
2	B	357	POV	O31-C3	-2.89	1.38	1.45
2	B	355	POV	O31-C3	-2.89	1.38	1.45
2	B	339	POV	O31-C3	-2.89	1.38	1.45
2	B	369	POV	O31-C3	-2.89	1.38	1.45
2	A	392	POV	O21-C2	-2.89	1.39	1.46
2	A	302	POV	O31-C3	-2.89	1.38	1.45
2	A	340	POV	O21-C2	-2.89	1.39	1.46
2	B	307	POV	O21-C2	-2.88	1.39	1.46
2	B	384	POV	O21-C2	-2.88	1.39	1.46
2	A	306	POV	O31-C3	-2.88	1.38	1.45
2	B	318	POV	O31-C3	-2.88	1.38	1.45
2	A	366	POV	O31-C3	-2.88	1.38	1.45
2	B	313	POV	O31-C3	-2.87	1.38	1.45
2	B	358	POV	O31-C3	-2.86	1.38	1.45
2	A	414	POV	O31-C3	-2.86	1.38	1.45
2	A	339	POV	O21-C2	-2.86	1.39	1.46
2	B	343	POV	O31-C3	-2.86	1.38	1.45
2	A	322	POV	O21-C2	-2.86	1.39	1.46
2	A	331	POV	O21-C2	-2.86	1.39	1.46
2	B	364	POV	O31-C3	-2.86	1.38	1.45
2	A	380	POV	O21-C2	-2.85	1.39	1.46
2	A	376	POV	O21-C2	-2.85	1.39	1.46
2	A	352	POV	O21-C2	-2.85	1.39	1.46
2	B	368	POV	O31-C3	-2.85	1.38	1.45
2	A	349	POV	O31-C3	-2.85	1.38	1.45
2	B	372	POV	O31-C3	-2.85	1.38	1.45
2	A	330	POV	O21-C2	-2.84	1.39	1.46
2	B	348	POV	O31-C3	-2.84	1.38	1.45
2	A	309	POV	O21-C2	-2.84	1.39	1.46
2	A	416	POV	O31-C3	-2.83	1.38	1.45
2	A	318	POV	O31-C3	-2.83	1.38	1.45
2	B	302	POV	O31-C3	-2.83	1.38	1.45
2	B	360	POV	O21-C2	-2.83	1.39	1.46
2	A	407	POV	O21-C2	-2.83	1.39	1.46
2	A	340	POV	O31-C3	-2.83	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	346	POV	O31-C3	-2.83	1.38	1.45
2	A	391	POV	O31-C3	-2.83	1.38	1.45
2	B	326	POV	O31-C3	-2.82	1.38	1.45
2	B	387	POV	O31-C3	-2.82	1.38	1.45
2	A	307	POV	O21-C2	-2.82	1.39	1.46
2	B	338	POV	O31-C3	-2.81	1.38	1.45
2	B	313	POV	O21-C2	-2.81	1.39	1.46
2	B	388	POV	O21-C2	-2.81	1.39	1.46
2	A	396	POV	O31-C3	-2.81	1.38	1.45
2	A	389	POV	O31-C3	-2.80	1.38	1.45
2	B	302	POV	O21-C2	-2.79	1.39	1.46
2	A	353	POV	O31-C3	-2.78	1.38	1.45
2	A	372	POV	O31-C3	-2.78	1.38	1.45
2	A	365	POV	O21-C2	-2.77	1.39	1.46
2	B	368	POV	O21-C2	-2.77	1.39	1.46
2	A	311	POV	O31-C3	-2.76	1.38	1.45
2	B	309	POV	O31-C3	-2.76	1.38	1.45
2	B	303	POV	O31-C3	-2.76	1.38	1.45
2	B	377	POV	O31-C3	-2.76	1.38	1.45
2	B	353	POV	O21-C2	-2.75	1.39	1.46
2	B	382	POV	O21-C2	-2.75	1.39	1.46
2	A	351	POV	O21-C2	-2.75	1.39	1.46
2	A	335	POV	O31-C3	-2.75	1.38	1.45
2	B	304	POV	O31-C3	-2.75	1.38	1.45
2	A	417	POV	O21-C2	-2.75	1.39	1.46
2	B	312	POV	O31-C3	-2.74	1.38	1.45
2	A	337	POV	O21-C2	-2.74	1.39	1.46
2	B	378	POV	O31-C3	-2.73	1.38	1.45
2	B	379	POV	O31-C3	-2.73	1.38	1.45
2	B	314	POV	O31-C3	-2.73	1.38	1.45
2	B	337	POV	O31-C3	-2.73	1.38	1.45
2	A	415	POV	O31-C3	-2.72	1.38	1.45
2	A	373	POV	O31-C3	-2.71	1.39	1.45
2	A	379	POV	O21-C2	-2.70	1.39	1.46
2	B	309	POV	O21-C2	-2.70	1.39	1.46
2	A	315	POV	O21-C2	-2.68	1.39	1.46
2	B	377	POV	O21-C2	-2.68	1.39	1.46
2	A	385	POV	O31-C3	-2.67	1.39	1.45
2	B	387	POV	O21-C2	-2.67	1.39	1.46
2	B	352	POV	O31-C3	-2.67	1.39	1.45
2	B	336	POV	O31-C3	-2.66	1.39	1.45
2	B	361	POV	O21-C2	-2.66	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	371	POV	O31-C3	-2.66	1.39	1.45
2	B	362	POV	O31-C3	-2.65	1.39	1.45
2	A	325	POV	O31-C3	-2.64	1.39	1.45
2	A	351	POV	O31-C3	-2.62	1.39	1.45
2	A	342	POV	O31-C3	-2.60	1.39	1.45
2	B	380	POV	O31-C3	-2.60	1.39	1.45
2	B	334	POV	O31-C3	-2.57	1.39	1.45
2	A	310	POV	O31-C3	-2.57	1.39	1.45
2	A	374	POV	O21-C2	-2.57	1.40	1.46
2	A	325	POV	O21-C2	-2.56	1.40	1.46
2	A	359	POV	O31-C3	-2.56	1.39	1.45
2	A	316	POV	O31-C3	-2.55	1.39	1.45
2	A	330	POV	O31-C3	-2.54	1.39	1.45
2	A	329	POV	O31-C3	-2.53	1.39	1.45
2	B	340	POV	O31-C3	-2.44	1.39	1.45
3	B	396	CLR	C11-C9	2.20	1.57	1.53
3	B	394	CLR	C11-C9	2.17	1.57	1.53
2	B	340	POV	C3-C2	2.15	1.57	1.50
3	A	404	CLR	C11-C9	2.11	1.57	1.53
2	A	415	POV	C1-C2	2.09	1.57	1.50
2	B	301	POV	C1-C2	2.05	1.57	1.50
2	A	359	POV	C3-C2	2.04	1.57	1.50
3	A	406	CLR	C11-C9	2.04	1.57	1.53
2	A	331	POV	C1-C2	2.02	1.56	1.50
2	A	311	POV	C1-C2	2.02	1.56	1.50

All (157) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	392	CLR	C16-C17-C20	4.72	119.46	112.15
2	B	334	POV	C26-C27-C28	4.39	132.94	113.79
2	A	362	POV	O31-C3-C2	4.10	120.36	108.43
2	B	361	POV	O21-C2-C1	3.97	122.78	108.40
3	B	399	CLR	C4-C5-C10	3.92	121.63	116.42
2	A	352	POV	O31-C3-C2	3.80	119.48	108.43
3	A	418	CLR	C4-C5-C10	3.77	121.43	116.42
3	A	420	CLR	C4-C5-C10	3.77	121.42	116.42
3	B	393	CLR	C4-C5-C10	3.67	121.30	116.42
3	A	402	CLR	C4-C5-C10	3.67	121.29	116.42
3	A	421	CLR	C4-C5-C10	3.66	121.28	116.42
3	B	397	CLR	C4-C5-C10	3.65	121.27	116.42
3	A	406	CLR	C4-C5-C10	3.60	121.20	116.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	398	CLR	C4-C5-C10	3.59	121.19	116.42
3	B	396	CLR	C4-C5-C10	3.59	121.19	116.42
3	B	391	CLR	C4-C5-C10	3.57	121.17	116.42
3	A	402	CLR	C22-C20-C17	3.55	117.62	110.28
3	B	395	CLR	C4-C5-C10	3.52	121.09	116.42
3	A	403	CLR	C4-C5-C10	3.50	121.07	116.42
2	A	333	POV	O31-C3-C2	3.49	118.59	108.43
2	B	358	POV	O31-C3-C2	3.49	118.59	108.43
3	B	394	CLR	C4-C5-C10	3.44	120.99	116.42
2	A	329	POV	O31-C3-C2	3.44	118.45	108.43
3	A	419	CLR	C4-C5-C10	3.43	120.97	116.42
2	B	340	POV	O31-C3-C2	3.41	118.35	108.43
3	B	396	CLR	C16-C17-C20	3.39	117.40	112.15
2	A	417	POV	C314-C313-C312	3.34	131.37	114.42
3	B	390	CLR	C4-C5-C10	3.25	120.74	116.42
3	A	405	CLR	C4-C5-C10	3.24	120.72	116.42
2	A	318	POV	O31-C3-C2	3.24	117.85	108.43
2	A	359	POV	O31-C3-C2	3.24	117.85	108.43
3	A	401	CLR	C4-C5-C10	3.18	120.65	116.42
3	B	392	CLR	C4-C5-C10	3.11	120.55	116.42
3	A	404	CLR	C4-C5-C10	3.00	120.41	116.42
3	B	395	CLR	C3-C4-C5	-2.93	107.06	112.03
2	A	316	POV	O31-C3-C2	2.92	116.94	108.43
2	B	353	POV	O21-C2-C1	2.90	118.90	108.40
2	A	315	POV	O21-C2-C1	2.88	118.83	108.40
2	B	313	POV	O31-C3-C2	2.87	116.79	108.43
2	B	307	POV	O31-C3-C2	2.85	116.74	108.43
2	A	345	POV	O31-C3-C2	2.85	116.74	108.43
2	B	323	POV	O31-C3-C2	2.85	116.72	108.43
2	A	411	POV	O21-C21-C22	2.81	117.55	111.50
2	A	341	POV	O31-C3-C2	2.79	116.55	108.43
2	B	331	POV	O21-C2-C1	2.79	118.48	108.40
2	B	339	POV	C2-O21-C21	2.77	124.60	117.79
2	A	331	POV	O21-C2-C1	2.76	118.39	108.40
2	A	376	POV	O31-C3-C2	2.73	116.37	108.43
2	A	305	POV	O31-C3-C2	2.72	116.34	108.43
2	B	313	POV	O21-C2-C1	2.71	118.23	108.40
2	A	361	POV	O31-C3-C2	2.70	116.29	108.43
2	B	382	POV	O21-C2-C3	2.69	118.13	108.40
2	B	317	POV	O31-C3-C2	2.69	116.25	108.43
2	B	321	POV	O21-C21-C22	2.67	117.25	111.50
2	B	339	POV	O31-C3-C2	2.65	116.16	108.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	378	POV	O21-C21-C22	-2.65	105.78	111.50
2	A	384	POV	O31-C3-C2	2.65	116.14	108.43
2	A	384	POV	O21-C2-C1	2.64	117.98	108.40
2	A	314	POV	O21-C21-C22	-2.64	105.80	111.50
2	B	339	POV	O21-C21-C22	2.63	117.18	111.50
2	A	322	POV	O21-C21-C22	-2.63	105.83	111.50
2	B	373	POV	O21-C21-C22	-2.62	105.85	111.50
3	B	392	CLR	C21-C20-C17	-2.60	108.94	112.92
3	A	418	CLR	C4-C5-C6	-2.59	116.87	120.61
2	A	412	POV	O31-C3-C2	2.58	115.95	108.43
2	B	304	POV	O31-C3-C2	2.58	115.94	108.43
2	B	380	POV	O31-C3-C2	2.58	115.93	108.43
2	B	340	POV	O21-C2-C3	2.56	117.69	108.40
2	A	357	POV	O31-C3-C2	2.56	115.90	108.43
2	A	353	POV	O31-C3-C2	2.56	115.88	108.43
2	B	360	POV	O21-C2-C3	2.55	117.62	108.40
3	B	396	CLR	C4-C5-C6	-2.54	116.95	120.61
2	B	365	POV	O21-C21-C22	-2.53	106.04	111.50
2	B	326	POV	O31-C3-C2	2.53	115.81	108.43
3	B	391	CLR	C4-C5-C6	-2.53	116.97	120.61
2	B	337	POV	O31-C3-C2	2.52	115.77	108.43
2	A	355	POV	O31-C3-C2	2.52	115.75	108.43
2	B	331	POV	O21-C21-C22	-2.51	106.10	111.50
2	B	351	POV	O31-C3-C2	2.50	115.70	108.43
3	B	390	CLR	C3-C4-C5	-2.48	107.82	112.03
2	A	310	POV	O31-C3-C2	2.47	115.62	108.43
3	A	402	CLR	C21-C20-C17	-2.46	109.16	112.92
2	A	409	POV	O21-C2-C3	2.45	117.29	108.40
2	B	302	POV	O21-C2-C1	2.45	117.29	108.40
2	A	358	POV	O31-C3-C2	2.45	115.57	108.43
3	B	397	CLR	C4-C5-C6	-2.45	117.08	120.61
3	A	402	CLR	C4-C5-C6	-2.44	117.09	120.61
3	A	420	CLR	C22-C20-C17	2.43	115.31	110.28
2	A	395	POV	O21-C21-C22	-2.41	106.30	111.50
2	A	366	POV	O21-C2-C1	2.40	117.10	108.40
2	A	343	POV	O31-C3-C2	2.39	115.38	108.43
2	B	327	POV	O21-C2-C3	2.39	117.04	108.40
2	B	378	POV	O21-C2-C3	2.37	116.98	108.40
3	B	396	CLR	C15-C14-C13	2.37	106.70	103.84
2	A	319	POV	O21-C21-C22	-2.35	106.43	111.50
2	B	356	POV	O31-C3-C2	2.35	115.28	108.43
3	B	399	CLR	C4-C5-C6	-2.33	117.25	120.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	369	POV	O21-C21-C22	-2.33	106.48	111.50
2	B	323	POV	O21-C2-C1	2.32	116.82	108.40
3	A	419	CLR	C21-C20-C22	2.32	114.00	110.36
2	B	318	POV	O31-C3-C2	2.31	115.15	108.43
2	B	310	POV	O21-C2-C1	2.30	116.74	108.40
2	A	336	POV	O21-C2-C3	2.28	116.65	108.40
2	A	407	POV	O31-C3-C2	2.28	115.07	108.43
2	B	352	POV	O31-C3-C2	2.27	115.04	108.43
2	B	320	POV	O31-C3-C2	2.27	115.04	108.43
3	B	391	CLR	C3-C4-C5	-2.26	108.19	112.03
2	B	357	POV	O21-C2-C1	2.26	116.59	108.40
2	A	391	POV	O31-C3-C2	2.26	115.01	108.43
2	A	316	POV	C3-C2-C1	-2.26	106.45	111.79
2	B	348	POV	O21-C2-C3	2.25	116.54	108.40
2	A	312	POV	O31-C3-C2	2.23	114.94	108.43
2	B	353	POV	O31-C3-C2	2.23	114.92	108.43
2	A	302	POV	O21-C2-C3	2.20	116.38	108.40
2	B	347	POV	O21-C2-C1	2.19	116.34	108.40
3	B	390	CLR	C4-C5-C6	-2.18	117.47	120.61
2	B	388	POV	O21-C21-C22	-2.17	106.82	111.50
3	A	406	CLR	C4-C5-C6	-2.17	117.48	120.61
2	B	383	POV	O31-C3-C2	2.17	114.75	108.43
3	A	402	CLR	C16-C17-C20	2.17	115.50	112.15
3	A	403	CLR	C4-C5-C6	-2.16	117.50	120.61
3	B	393	CLR	C7-C8-C9	-2.15	107.10	109.71
2	A	411	POV	C2-O21-C21	2.15	123.09	117.79
2	B	374	POV	O21-C2-C1	2.15	116.18	108.40
3	A	421	CLR	C21-C20-C22	-2.15	107.00	110.36
2	A	309	POV	O31-C3-C2	2.14	114.65	108.43
3	B	398	CLR	C3-C4-C5	-2.13	108.42	112.03
2	B	368	POV	O21-C2-C1	2.12	116.07	108.40
2	A	413	POV	O21-C21-C22	-2.12	106.94	111.50
2	B	382	POV	O31-C31-C32	-2.12	105.27	111.91
2	A	327	POV	O21-C2-C1	2.12	116.06	108.40
2	B	380	POV	C2-O21-C21	2.11	123.00	117.79
3	A	420	CLR	C1-C10-C5	-2.11	104.90	108.75
2	A	325	POV	O21-C2-C3	2.10	116.02	108.40
3	A	419	CLR	C4-C5-C6	-2.10	117.58	120.61
2	A	334	POV	O21-C21-C22	-2.10	106.98	111.50
2	A	303	POV	O31-C3-C2	2.09	114.52	108.43
3	B	396	CLR	C3-C4-C5	-2.09	108.48	112.03
3	B	392	CLR	C22-C20-C17	2.08	114.58	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	398	CLR	C4-C5-C6	-2.08	117.61	120.61
2	B	310	POV	O31-C3-C2	2.07	114.46	108.43
2	B	324	POV	O21-C21-O22	-2.07	118.71	123.70
3	A	405	CLR	C4-C5-C6	-2.06	117.63	120.61
3	B	394	CLR	C4-C5-C6	-2.06	117.64	120.61
3	B	392	CLR	C13-C17-C20	-2.06	116.26	119.49
2	B	367	POV	O31-C3-C2	2.06	114.42	108.43
2	A	311	POV	O31-C3-C2	2.06	114.42	108.43
3	A	404	CLR	C4-C5-C6	-2.05	117.65	120.61
2	B	311	POV	O21-C21-C22	-2.04	107.11	111.50
2	A	359	POV	O21-C2-C3	2.03	115.74	108.40
2	A	331	POV	O21-C21-C22	-2.02	107.14	111.50
2	B	360	POV	O21-C2-C1	2.02	115.72	108.40
2	A	366	POV	O31-C3-C2	2.02	114.30	108.43
2	B	341	POV	O31-C3-C2	2.01	114.30	108.43
3	A	402	CLR	C15-C14-C13	2.01	106.27	103.84
2	A	378	POV	O31-C3-C2	2.01	114.29	108.43
2	B	373	POV	O31-C31-C32	2.01	118.21	111.91

All (24) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	368	POV	C2
2	B	367	POV	C2
2	B	330	POV	C2
2	B	347	POV	C2
2	A	322	POV	C2
2	A	400	POV	C2
2	B	329	POV	C2
2	B	362	POV	C2
2	A	383	POV	C2
2	A	316	POV	C2
2	A	308	POV	C2
2	A	378	POV	C2
2	B	321	POV	C2
2	B	303	POV	C2
2	A	380	POV	C2
2	B	364	POV	C2
2	A	318	POV	C2
2	A	410	POV	C2
2	B	346	POV	C2
2	A	385	POV	C2

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Mol	Chain	Res	Type	Atom
2	A	326	POV	C2
2	A	319	POV	C2
2	A	365	POV	C2
2	B	328	POV	C2

All (2136) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	353	POV	C1-O11-P-O12
2	A	353	POV	C1-O11-P-O14
2	A	393	POV	C1-O11-P-O13
2	B	386	POV	C1-O11-P-O14
2	B	386	POV	C32-C31-O31-C3
2	B	386	POV	O32-C31-O31-C3
2	B	319	POV	C1-O11-P-O13
2	B	319	POV	C1-O11-P-O14
2	B	361	POV	C1-O11-P-O14
2	B	361	POV	C11-O12-P-O14
2	B	301	POV	C11-O12-P-O11
2	B	301	POV	C11-O12-P-O13
2	B	301	POV	C11-O12-P-O14
2	B	301	POV	C22-C21-O21-C2
2	B	301	POV	O22-C21-O21-C2
2	B	322	POV	C1-O11-P-O12
2	B	322	POV	C1-O11-P-O13
2	B	322	POV	C1-O11-P-O14
2	A	389	POV	C11-O12-P-O13
2	A	389	POV	C11-O12-P-O14
2	A	389	POV	O22-C21-O21-C2
2	A	377	POV	C1-O11-P-O12
2	A	377	POV	C22-C21-O21-C2
2	A	377	POV	O22-C21-O21-C2
2	A	354	POV	C1-O11-P-O13
2	A	354	POV	C1-O11-P-O14
2	A	354	POV	O12-C11-C12-N
2	A	354	POV	C32-C31-O31-C3
2	A	354	POV	O32-C31-O31-C3
2	B	359	POV	C1-O11-P-O12
2	B	359	POV	C1-O11-P-O13
2	B	359	POV	C1-O11-P-O14
2	A	307	POV	C32-C31-O31-C3
2	A	307	POV	O32-C31-O31-C3

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Mol	Chain	Res	Type	Atoms
2	A	301	POV	C11-O12-P-O11
2	A	301	POV	C11-O12-P-O13
2	A	301	POV	C11-O12-P-O14
2	A	301	POV	O12-C11-C12-N
2	B	317	POV	C1-O11-P-O14
2	A	375	POV	C1-O11-P-O12
2	A	375	POV	C12-C11-O12-P
2	B	330	POV	O12-C11-C12-N
2	B	330	POV	O32-C31-O31-C3
2	B	381	POV	C11-O12-P-O11
2	B	381	POV	C11-O12-P-O13
2	B	381	POV	C11-O12-P-O14
2	B	381	POV	C12-C11-O12-P
2	A	341	POV	C1-O11-P-O12
2	A	341	POV	O12-C11-C12-N
2	A	341	POV	O22-C21-O21-C2
2	B	347	POV	C1-O11-P-O12
2	B	326	POV	C11-O12-P-O13
2	B	326	POV	O32-C31-O31-C3
2	B	312	POV	O32-C31-O31-C3
2	B	379	POV	C1-O11-P-O13
2	B	379	POV	C1-O11-P-O14
2	B	379	POV	C11-O12-P-O13
2	B	379	POV	C2-C1-O11-P
2	A	322	POV	C1-O11-P-O13
2	A	322	POV	C1-O11-P-O14
2	A	322	POV	C12-C11-O12-P
2	A	360	POV	C1-O11-P-O14
2	A	360	POV	O22-C21-O21-C2
2	A	343	POV	C22-C21-O21-C2
2	A	343	POV	O22-C21-O21-C2
2	B	333	POV	C11-O12-P-O14
2	A	347	POV	C1-O11-P-O14
2	A	400	POV	C2-C1-O11-P
2	A	400	POV	O12-C11-C12-N
2	B	324	POV	C22-C21-O21-C2
2	B	324	POV	O22-C21-O21-C2
2	A	336	POV	C1-O11-P-O14
2	A	334	POV	O32-C31-O31-C3
2	A	362	POV	C1-O11-P-O13
2	A	362	POV	C1-O11-P-O14
2	A	362	POV	C2-C1-O11-P

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Mol	Chain	Res	Type	Atoms
2	A	311	POV	C11-O12-P-O11
2	A	311	POV	C11-O12-P-O14
2	B	384	POV	C11-O12-P-O14
2	B	384	POV	C32-C31-O31-C3
2	B	384	POV	O32-C31-O31-C3
2	A	330	POV	C1-O11-P-O14
2	A	330	POV	O32-C31-O31-C3
2	A	372	POV	O32-C31-O31-C3
2	A	390	POV	C11-O12-P-O13
2	B	373	POV	C32-C31-O31-C3
2	B	373	POV	O32-C31-O31-C3
2	B	380	POV	O12-C11-C12-N
2	B	380	POV	C22-C21-O21-C2
2	B	380	POV	O22-C21-O21-C2
2	B	354	POV	C2-C1-O11-P
2	A	413	POV	C2-C1-O11-P
2	B	306	POV	C1-O11-P-O14
2	B	306	POV	C11-O12-P-O11
2	B	306	POV	C11-O12-P-O14
2	B	306	POV	C2-C1-O11-P
2	B	306	POV	C12-C11-O12-P
2	B	378	POV	C11-O12-P-O11
2	B	378	POV	C11-O12-P-O14
2	A	335	POV	C11-O12-P-O14
2	B	360	POV	C1-O11-P-O12
2	B	360	POV	C1-O11-P-O14
2	B	302	POV	O32-C31-O31-C3
2	B	341	POV	O32-C31-O31-C3
2	A	338	POV	C11-O12-P-O11
2	A	338	POV	C11-O12-P-O13
2	A	338	POV	C11-O12-P-O14
2	B	318	POV	C1-O11-P-O12
2	B	318	POV	O32-C31-O31-C3
2	B	332	POV	C1-O11-P-O12
2	B	332	POV	C1-O11-P-O14
2	A	315	POV	C1-O11-P-O12
2	A	315	POV	C1-O11-P-O13
2	A	315	POV	C1-O11-P-O14
2	A	315	POV	C11-O12-P-O13
2	A	315	POV	C11-O12-P-O14
2	A	315	POV	C2-C1-O11-P
2	A	327	POV	C1-O11-P-O12

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	327	POV	C1-O11-P-O14
2	A	327	POV	C12-C11-O12-P
2	A	327	POV	C22-C21-O21-C2
2	A	388	POV	O22-C21-O21-C2
2	A	414	POV	C12-C11-O12-P
2	A	398	POV	C12-C11-O12-P
2	A	398	POV	O32-C31-O31-C3
2	B	320	POV	C11-O12-P-O13
2	A	409	POV	O12-C11-C12-N
2	A	325	POV	C1-O11-P-O13
2	A	325	POV	C12-C11-O12-P
2	A	331	POV	C11-O12-P-O14
2	B	345	POV	C1-O11-P-O13
2	B	345	POV	C12-C11-O12-P
2	B	345	POV	O32-C31-O31-C3
2	A	321	POV	O32-C31-O31-C3
2	B	389	POV	O22-C21-O21-C2
2	A	310	POV	C11-O12-P-O13
2	A	310	POV	C2-C1-O11-P
2	A	310	POV	O32-C31-O31-C3
2	B	336	POV	C1-O11-P-O14
2	B	336	POV	O22-C21-O21-C2
2	A	312	POV	C1-O11-P-O14
2	A	348	POV	C1-O11-P-O13
2	A	348	POV	C11-O12-P-O14
2	B	377	POV	C11-O12-P-O14
2	A	316	POV	C2-C1-O11-P
2	A	370	POV	C2-C1-O11-P
2	A	370	POV	O12-C11-C12-N
2	A	364	POV	C11-O12-P-O14
2	A	324	POV	C1-O11-P-O14
2	B	307	POV	C1-O11-P-O12
2	B	307	POV	C22-C21-O21-C2
2	B	307	POV	O22-C21-O21-C2
2	A	363	POV	C1-O11-P-O13
2	A	363	POV	C11-O12-P-O14
2	A	363	POV	C2-C1-O11-P
2	A	363	POV	C12-C11-O12-P
2	B	374	POV	C1-O11-P-O13
2	B	374	POV	C2-C1-O11-P
2	B	374	POV	C12-C11-O12-P
2	A	384	POV	C1-O11-P-O14

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Mol	Chain	Res	Type	Atoms
2	A	350	POV	C11-O12-P-O11
2	A	350	POV	C11-O12-P-O14
2	A	399	POV	O12-C11-C12-N
2	A	399	POV	O32-C31-O31-C3
2	A	313	POV	C1-O11-P-O13
2	A	313	POV	C2-C1-O11-P
2	A	378	POV	C11-O12-P-O13
2	A	378	POV	C11-O12-P-O14
2	B	321	POV	C1-O11-P-O12
2	B	321	POV	C22-C21-O21-C2
2	B	321	POV	O22-C21-O21-C2
2	B	351	POV	C1-O11-P-O12
2	B	351	POV	C1-O11-P-O14
2	A	382	POV	C11-O12-P-O14
2	A	376	POV	C11-O12-P-O13
2	A	376	POV	C11-O12-P-O14
2	A	340	POV	C11-O12-P-O14
2	A	340	POV	O12-C11-C12-N
2	A	305	POV	C11-O12-P-O14
2	A	415	POV	C1-O11-P-O14
2	A	415	POV	C2-C1-O11-P
2	A	380	POV	C1-O11-P-O14
2	A	380	POV	C11-O12-P-O13
2	A	380	POV	C11-O12-P-O14
2	A	380	POV	C2-C1-O11-P
2	A	380	POV	C12-C11-O12-P
2	B	382	POV	C1-O11-P-O14
2	B	382	POV	C11-O12-P-O11
2	B	382	POV	C11-O12-P-O13
2	B	382	POV	C11-O12-P-O14
2	B	382	POV	O12-C11-C12-N
2	B	364	POV	C1-O11-P-O13
2	B	364	POV	C11-O12-P-O13
2	B	314	POV	C1-O11-P-O14
2	B	357	POV	O12-C11-C12-N
2	B	357	POV	C32-C31-O31-C3
2	B	357	POV	O32-C31-O31-C3
2	A	318	POV	C1-O11-P-O12
2	A	318	POV	C1-O11-P-O14
2	A	318	POV	O32-C31-O31-C3
2	B	376	POV	C11-O12-P-O14
2	B	385	POV	C11-O12-P-O14

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Mol	Chain	Res	Type	Atoms
2	A	317	POV	C1-O11-P-O13
2	B	323	POV	C2-C1-O11-P
2	B	349	POV	C11-O12-P-O11
2	B	370	POV	C11-O12-P-O11
2	B	370	POV	C2-C1-O11-P
2	B	387	POV	C11-O12-P-O13
2	B	337	POV	C11-O12-P-O14
2	A	361	POV	C2-C1-O11-P
2	A	410	POV	C32-C31-O31-C3
2	A	410	POV	O32-C31-O31-C3
2	B	372	POV	C11-O12-P-O14
2	B	388	POV	C1-O11-P-O14
2	B	388	POV	C32-C31-O31-C3
2	B	388	POV	O32-C31-O31-C3
2	B	369	POV	O12-C11-C12-N
2	B	339	POV	C22-C21-O21-C2
2	B	339	POV	O22-C21-O21-C2
2	A	411	POV	C1-O11-P-O13
2	A	411	POV	C22-C21-O21-C2
2	A	411	POV	O22-C21-O21-C2
2	A	309	POV	C32-C31-O31-C3
2	A	309	POV	O32-C31-O31-C3
2	B	305	POV	C2-C1-O11-P
2	A	395	POV	O32-C31-O31-C3
2	A	339	POV	C11-O12-P-O14
2	A	339	POV	O12-C11-C12-N
2	A	339	POV	C22-C21-O21-C2
2	A	339	POV	O22-C21-O21-C2
2	B	331	POV	C11-O12-P-O13
2	A	326	POV	C11-O12-P-O11
2	A	326	POV	O22-C21-O21-C2
2	A	319	POV	C1-O11-P-O14
2	A	365	POV	C2-C1-O11-P
2	A	374	POV	C11-O12-P-O14
2	A	374	POV	C32-C31-O31-C3
2	A	374	POV	O32-C31-O31-C3
2	B	308	POV	C2-C1-O11-P
2	B	328	POV	C2-C1-O11-P
2	B	328	POV	O12-C11-C12-N
2	B	343	POV	C1-O11-P-O14
2	B	343	POV	O12-C11-C12-N
2	B	316	POV	C2-C1-O11-P

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Mol	Chain	Res	Type	Atoms
2	B	334	POV	O12-C11-C12-N
2	A	344	POV	C1-O11-P-O14
2	A	344	POV	C22-C21-O21-C2
2	A	344	POV	O22-C21-O21-C2
2	B	355	POV	C1-O11-P-O14
2	A	369	POV	C22-C21-O21-C2
2	A	369	POV	O22-C21-O21-C2
2	A	369	POV	O32-C31-O31-C3
2	A	345	POV	C22-C21-O21-C2
2	A	345	POV	O22-C21-O21-C2
2	A	386	POV	C1-O11-P-O14
2	A	386	POV	C2-C1-O11-P
2	A	314	POV	C1-O11-P-O12
2	B	358	POV	O12-C11-C12-N
2	B	358	POV	O22-C21-O21-C2
2	B	342	POV	C2-C1-O11-P
2	A	391	POV	O32-C31-O31-C3
2	B	338	POV	C1-O11-P-O13
2	B	335	POV	O12-C11-C12-N
2	B	311	POV	O12-C11-C12-N
2	A	408	POV	O32-C31-O31-C3
2	B	319	POV	O32-C31-O31-C3
2	B	361	POV	O32-C31-O31-C3
2	B	379	POV	O32-C31-O31-C3
2	A	400	POV	O32-C31-O31-C3
2	A	311	POV	O32-C31-O31-C3
2	B	378	POV	O32-C31-O31-C3
2	B	370	POV	O32-C31-O31-C3
2	A	349	POV	O32-C31-O31-C3
2	B	366	POV	O32-C31-O31-C3
2	B	328	POV	O32-C31-O31-C3
2	B	343	POV	O32-C31-O31-C3
2	B	355	POV	O32-C31-O31-C3
2	B	361	POV	C32-C31-O31-C3
2	B	312	POV	C32-C31-O31-C3
2	B	379	POV	C32-C31-O31-C3
2	A	400	POV	C32-C31-O31-C3
2	A	372	POV	C32-C31-O31-C3
2	B	341	POV	C32-C31-O31-C3
2	B	318	POV	C32-C31-O31-C3
2	A	321	POV	C32-C31-O31-C3
2	A	310	POV	C32-C31-O31-C3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	369	POV	C32-C31-O31-C3
2	B	320	POV	O32-C31-O31-C3
2	B	309	POV	O32-C31-O31-C3
2	A	365	POV	O32-C31-O31-C3
2	B	383	POV	O32-C31-O31-C3
3	B	392	CLR	C13-C17-C20-C22
2	B	367	POV	O22-C21-O21-C2
2	A	327	POV	O22-C21-O21-C2
2	A	331	POV	O22-C21-O21-C2
2	B	348	POV	O22-C21-O21-C2
2	A	332	POV	O22-C21-O21-C2
2	A	395	POV	O22-C21-O21-C2
2	B	331	POV	O22-C21-O21-C2
2	A	408	POV	C32-C31-O31-C3
2	B	330	POV	C32-C31-O31-C3
2	B	326	POV	C32-C31-O31-C3
2	A	334	POV	C32-C31-O31-C3
2	A	330	POV	C32-C31-O31-C3
2	A	398	POV	C32-C31-O31-C3
2	B	320	POV	C32-C31-O31-C3
2	B	345	POV	C32-C31-O31-C3
2	A	318	POV	C32-C31-O31-C3
2	A	349	POV	C32-C31-O31-C3
2	A	395	POV	C32-C31-O31-C3
2	B	366	POV	C32-C31-O31-C3
2	B	328	POV	C32-C31-O31-C3
2	B	343	POV	C32-C31-O31-C3
2	B	355	POV	C32-C31-O31-C3
2	A	391	POV	C32-C31-O31-C3
2	A	389	POV	C22-C21-O21-C2
2	A	341	POV	C22-C21-O21-C2
2	A	360	POV	C22-C21-O21-C2
2	A	388	POV	C22-C21-O21-C2
2	B	389	POV	C22-C21-O21-C2
2	B	336	POV	C22-C21-O21-C2
2	B	348	POV	C22-C21-O21-C2
2	A	326	POV	C22-C21-O21-C2
2	B	358	POV	C22-C21-O21-C2
3	B	396	CLR	C16-C17-C20-C21
3	B	392	CLR	C16-C17-C20-C21
3	B	396	CLR	C13-C17-C20-C21
2	B	319	POV	C32-C31-O31-C3

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Mol	Chain	Res	Type	Atoms
2	A	311	POV	C32-C31-O31-C3
2	B	378	POV	C32-C31-O31-C3
2	B	302	POV	C32-C31-O31-C3
2	A	399	POV	C32-C31-O31-C3
2	B	309	POV	C32-C31-O31-C3
2	B	383	POV	C32-C31-O31-C3
2	B	327	POV	O22-C21-O21-C2
2	A	359	POV	O32-C31-O31-C3
2	A	329	POV	O32-C31-O31-C3
2	A	352	POV	C2-C3-O31-C31
3	B	392	CLR	C16-C17-C20-C22
3	B	396	CLR	C13-C17-C20-C22
2	B	383	POV	C25-C26-C27-C28
2	A	417	POV	C312-C313-C314-C315
3	B	392	CLR	C13-C17-C20-C21
2	B	370	POV	C32-C31-O31-C3
2	B	359	POV	C2-C1-O11-P
2	A	321	POV	C2-C1-O11-P
2	B	363	POV	C2-C1-O11-P
2	B	389	POV	C2-C1-O11-P
2	B	364	POV	C2-C1-O11-P
2	B	388	POV	C2-C1-O11-P
2	A	356	POV	C2-C1-O11-P
2	B	311	POV	C2-C1-O11-P
2	B	349	POV	O32-C31-O31-C3
2	B	340	POV	O32-C31-O31-C3
3	B	396	CLR	C16-C17-C20-C22
2	B	340	POV	C31-C32-C33-C34
3	A	405	CLR	C17-C20-C22-C23
2	A	352	POV	O32-C31-O31-C3
2	A	329	POV	C32-C31-O31-C3
2	A	365	POV	C32-C31-O31-C3
3	A	402	CLR	C13-C17-C20-C22
3	A	405	CLR	C21-C20-C22-C23
2	B	304	POV	C31-C32-C33-C34
2	A	305	POV	O21-C2-C3-O31
2	B	362	POV	C31-C32-C33-C34
2	A	348	POV	C21-C22-C23-C24
3	A	402	CLR	C16-C17-C20-C21
2	A	323	POV	C31-C32-C33-C34
2	A	335	POV	C21-C22-C23-C24
2	A	382	POV	C31-C32-C33-C34

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	B	314	POV	C31-C32-C33-C34
2	B	323	POV	C21-C22-C23-C24
2	A	396	POV	C21-C22-C23-C24
2	B	388	POV	C31-C32-C33-C34
2	A	395	POV	C21-C22-C23-C24
2	B	338	POV	C21-C22-C23-C24
3	B	399	CLR	C17-C20-C22-C23
2	B	340	POV	C2-C3-O31-C31
3	B	399	CLR	C21-C20-C22-C23
2	A	311	POV	C2-C1-O11-P
2	B	373	POV	C2-C1-O11-P
2	A	348	POV	C2-C1-O11-P
2	B	353	POV	C2-C1-O11-P
2	A	350	POV	C2-C1-O11-P
2	A	378	POV	C2-C1-O11-P
2	B	368	POV	C2-C1-O11-P
2	A	345	POV	C2-C1-O11-P
2	B	304	POV	C2-C1-O11-P
2	B	306	POV	C11-C12-N-C13
2	B	341	POV	C31-C32-C33-C34
2	A	395	POV	C22-C21-O21-C2
3	A	402	CLR	C13-C17-C20-C21
2	A	353	POV	C31-C32-C33-C34
2	A	359	POV	C32-C31-O31-C3
2	A	349	POV	C26-C27-C28-C29
2	A	319	POV	C31-C32-C33-C34
3	B	396	CLR	C20-C22-C23-C24
2	B	326	POV	C312-C313-C314-C315
2	A	393	POV	C1-O11-P-O12
2	B	319	POV	C1-O11-P-O12
2	B	350	POV	C11-O12-P-O11
2	A	389	POV	C11-O12-P-O11
2	A	354	POV	C1-O11-P-O12
2	B	326	POV	C11-O12-P-O11
2	B	379	POV	C1-O11-P-O12
2	A	322	POV	C1-O11-P-O12
2	A	347	POV	C1-O11-P-O12
2	B	324	POV	C11-O12-P-O11
2	A	334	POV	C1-O11-P-O12
2	A	362	POV	C1-O11-P-O12
2	B	384	POV	C11-O12-P-O11
2	A	390	POV	C11-O12-P-O11

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	315	POV	C11-O12-P-O11
2	A	325	POV	C11-O12-P-O11
2	B	345	POV	C1-O11-P-O12
2	A	310	POV	C11-O12-P-O11
2	A	312	POV	C1-O11-P-O12
2	A	366	POV	C1-O11-P-O12
2	A	324	POV	C1-O11-P-O12
2	A	363	POV	C1-O11-P-O12
2	A	378	POV	C11-O12-P-O11
2	A	376	POV	C11-O12-P-O11
2	A	380	POV	C11-O12-P-O11
2	B	382	POV	C1-O11-P-O12
2	B	364	POV	C1-O11-P-O12
2	B	385	POV	C11-O12-P-O11
2	A	317	POV	C1-O11-P-O12
2	B	387	POV	C11-O12-P-O11
2	B	337	POV	C11-O12-P-O11
2	B	372	POV	C11-O12-P-O11
2	A	394	POV	C1-O11-P-O12
2	B	339	POV	C1-O11-P-O12
2	A	411	POV	C1-O11-P-O12
2	B	344	POV	C1-O11-P-O12
2	A	417	POV	C11-O12-P-O11
2	A	356	POV	C11-O12-P-O11
2	A	395	POV	C1-O11-P-O12
2	A	387	POV	C1-O11-P-O12
2	A	397	POV	C11-O12-P-O11
2	B	355	POV	C11-O12-P-O11
2	B	383	POV	C11-O12-P-O11
2	B	349	POV	C32-C31-O31-C3
3	B	398	CLR	C20-C22-C23-C24
2	A	349	POV	C21-C22-C23-C24
2	A	315	POV	O22-C21-O21-C2
2	B	340	POV	O22-C21-O21-C2
2	A	362	POV	C32-C31-O31-C3
2	A	417	POV	C26-C27-C28-C29
2	A	370	POV	C31-C32-C33-C34
2	B	302	POV	C311-C312-C313-C314
2	B	327	POV	C22-C21-O21-C2
2	B	331	POV	C22-C21-O21-C2
3	A	404	CLR	C17-C20-C22-C23
2	A	408	POV	C37-C38-C39-C310

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	354	POV	C213-C214-C215-C216
2	A	324	POV	C311-C310-C39-C38
2	B	327	POV	C311-C312-C313-C314
2	B	328	POV	C37-C38-C39-C310
2	A	323	POV	C311-C312-C313-C314
2	B	374	POV	C33-C34-C35-C36
2	A	328	POV	C310-C311-C312-C313
2	B	332	POV	C22-C23-C24-C25
2	B	323	POV	C34-C35-C36-C37
2	A	388	POV	C2-C1-O11-P
2	A	384	POV	C2-C1-O11-P
2	B	331	POV	C2-C1-O11-P
2	A	371	POV	C2-C1-O11-P
2	A	413	POV	C211-C212-C213-C214
2	B	316	POV	C212-C213-C214-C215
2	B	311	POV	C25-C26-C27-C28
2	A	353	POV	C25-C26-C27-C28
2	A	393	POV	C310-C311-C312-C313
2	A	338	POV	C23-C24-C25-C26
2	A	415	POV	C212-C213-C214-C215
2	A	411	POV	C24-C25-C26-C27
2	A	359	POV	C31-C32-C33-C34
2	A	328	POV	C211-C212-C213-C214
2	A	329	POV	C35-C36-C37-C38
2	A	317	POV	C311-C312-C313-C314
2	A	396	POV	C212-C213-C214-C215
2	A	304	POV	C25-C26-C27-C28
2	B	366	POV	C211-C212-C213-C214
2	A	344	POV	C211-C212-C213-C214
2	A	326	POV	C213-C214-C215-C216
2	A	408	POV	C21-C22-C23-C24
2	B	367	POV	C21-C22-C23-C24
2	B	333	POV	C31-C32-C33-C34
2	A	352	POV	C33-C34-C35-C36
2	B	373	POV	C36-C37-C38-C39
2	A	332	POV	C24-C25-C26-C27
2	B	308	POV	C311-C312-C313-C314
2	B	371	POV	C214-C215-C216-C217
2	A	323	POV	C36-C37-C38-C39
2	B	373	POV	C32-C33-C34-C35
2	B	354	POV	C25-C26-C27-C28
2	B	388	POV	C22-C21-O21-C2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	396	POV	C311-C312-C313-C314
2	B	354	POV	C26-C27-C28-C29
2	A	314	POV	C26-C27-C28-C29
2	A	325	POV	C31-C32-C33-C34
2	A	393	POV	C34-C35-C36-C37
2	B	347	POV	C39-C310-C311-C312
2	B	312	POV	C213-C214-C215-C216
2	A	314	POV	C311-C312-C313-C314
2	B	306	POV	C11-C12-N-C15
3	A	404	CLR	C22-C23-C24-C25
2	A	389	POV	C32-C33-C34-C35
2	B	345	POV	C312-C313-C314-C315
2	B	352	POV	C34-C35-C36-C37
2	A	378	POV	C33-C34-C35-C36
2	A	380	POV	C310-C311-C312-C313
2	A	357	POV	C37-C38-C39-C310
2	B	343	POV	C24-C25-C26-C27
2	B	371	POV	C23-C24-C25-C26
2	A	354	POV	C32-C33-C34-C35
2	B	305	POV	C37-C38-C39-C310
2	A	373	POV	C34-C35-C36-C37
2	A	397	POV	C33-C34-C35-C36
2	A	362	POV	C21-C22-C23-C24
2	A	302	POV	C31-C32-C33-C34
2	B	364	POV	C21-C22-C23-C24
2	B	346	POV	C21-C22-C23-C24
2	A	334	POV	C33-C34-C35-C36
2	B	329	POV	C310-C311-C312-C313
2	B	358	POV	C32-C31-O31-C3
2	A	302	POV	C23-C24-C25-C26
2	A	303	POV	C311-C312-C313-C314
2	A	357	POV	C214-C215-C216-C217
2	A	354	POV	C311-C310-C39-C38
2	A	367	POV	C213-C214-C215-C216
2	A	360	POV	C39-C310-C311-C312
2	A	359	POV	C310-C311-C312-C313
2	A	413	POV	C34-C35-C36-C37
2	B	372	POV	C22-C23-C24-C25
2	A	386	POV	C310-C311-C312-C313
2	B	385	POV	C31-C32-C33-C34
2	B	368	POV	O32-C31-O31-C3
2	B	361	POV	C32-C33-C34-C35

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Mol	Chain	Res	Type	Atoms
2	A	311	POV	C213-C214-C215-C216
2	A	342	POV	C212-C213-C214-C215
2	A	359	POV	C24-C25-C26-C27
2	A	399	POV	C23-C24-C25-C26
2	B	357	POV	C25-C26-C27-C28
2	B	343	POV	C311-C312-C313-C314
2	B	338	POV	C24-C25-C26-C27
2	A	409	POV	C1-C2-C3-O31
2	A	321	POV	C21-C22-C23-C24
2	A	372	POV	C211-C212-C213-C214
2	B	354	POV	C311-C310-C39-C38
2	B	371	POV	C32-C31-O31-C3
2	B	347	POV	C22-C21-O21-C2
2	A	314	POV	C22-C21-O21-C2
2	A	310	POV	C2-C3-O31-C31
2	A	414	POV	C25-C26-C27-C28
2	A	313	POV	C213-C214-C215-C216
2	B	317	POV	C213-C214-C215-C216
2	B	381	POV	C311-C312-C313-C314
2	A	362	POV	C311-C310-C39-C38
2	A	390	POV	C36-C37-C38-C39
2	B	381	POV	C26-C27-C28-C29
2	B	373	POV	C210-C211-C212-C213
2	A	311	POV	C35-C36-C37-C38
2	B	307	POV	C32-C33-C34-C35
2	B	311	POV	C211-C212-C213-C214
2	A	351	POV	C39-C310-C311-C312
2	B	334	POV	C23-C24-C25-C26
2	A	390	POV	O32-C31-O31-C3
2	B	366	POV	C31-C32-C33-C34
2	A	417	POV	C311-C312-C313-C314
2	A	314	POV	C25-C26-C27-C28
2	B	324	POV	C2-C1-O11-P
2	A	319	POV	C2-C1-O11-P
2	B	306	POV	C11-C12-N-C14
2	B	360	POV	C31-C32-C33-C34
2	B	333	POV	C25-C26-C27-C28
2	A	346	POV	C32-C31-O31-C3
2	B	367	POV	C22-C21-O21-C2
2	B	323	POV	C22-C21-O21-C2
2	B	387	POV	C22-C21-O21-C2
2	A	351	POV	C214-C215-C216-C217

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Mol	Chain	Res	Type	Atoms
2	B	335	POV	C25-C26-C27-C28
2	A	415	POV	C31-C32-C33-C34
2	B	317	POV	C22-C23-C24-C25
2	B	308	POV	C211-C212-C213-C214
2	B	358	POV	C24-C25-C26-C27
2	B	369	POV	C311-C312-C313-C314
2	B	371	POV	C210-C211-C212-C213
2	B	367	POV	C26-C27-C28-C29
2	B	358	POV	C210-C211-C212-C213
2	B	382	POV	O22-C21-O21-C2
2	A	306	POV	C31-C32-C33-C34
2	A	389	POV	C31-C32-C33-C34
2	B	302	POV	C21-C22-C23-C24
2	B	360	POV	C32-C31-O31-C3
2	B	382	POV	C32-C31-O31-C3
2	B	340	POV	C32-C31-O31-C3
2	A	393	POV	C37-C38-C39-C310
2	B	375	POV	C22-C23-C24-C25
2	A	379	POV	C31-C32-C33-C34
2	B	360	POV	C34-C35-C36-C37
2	A	393	POV	C23-C24-C25-C26
2	B	381	POV	C212-C213-C214-C215
2	A	329	POV	C32-C33-C34-C35
2	A	408	POV	C31-C32-C33-C34
2	A	313	POV	C31-C32-C33-C34
2	A	411	POV	C31-C32-C33-C34
2	A	393	POV	C22-C21-O21-C2
2	B	386	POV	C22-C21-O21-C2
2	A	400	POV	C22-C21-O21-C2
2	B	378	POV	C22-C21-O21-C2
2	A	302	POV	C22-C21-O21-C2
2	A	331	POV	C22-C21-O21-C2
2	B	352	POV	C22-C21-O21-C2
2	A	378	POV	C22-C21-O21-C2
2	A	380	POV	C22-C21-O21-C2
2	A	332	POV	C22-C21-O21-C2
2	A	319	POV	C22-C21-O21-C2
2	A	341	POV	C311-C312-C313-C314
2	A	335	POV	C34-C35-C36-C37
2	A	358	POV	O22-C21-O21-C2
3	A	419	CLR	C21-C20-C22-C23
2	A	391	POV	C31-C32-C33-C34

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	B	317	POV	C34-C35-C36-C37
2	A	338	POV	C311-C310-C39-C38
2	A	415	POV	C32-C31-O31-C3
2	A	377	POV	C36-C37-C38-C39
2	B	333	POV	C312-C313-C314-C315
2	A	313	POV	C33-C34-C35-C36
2	B	327	POV	C22-C23-C24-C25
2	A	336	POV	C26-C27-C28-C29
2	B	354	POV	C210-C211-C212-C213
2	B	360	POV	C26-C27-C28-C29
2	A	388	POV	C210-C211-C212-C213
2	B	366	POV	C39-C310-C311-C312
2	B	356	POV	C24-C25-C26-C27
2	A	415	POV	C311-C312-C313-C314
2	B	369	POV	C34-C35-C36-C37
2	A	411	POV	C25-C26-C27-C28
2	B	344	POV	C33-C34-C35-C36
2	A	417	POV	C22-C21-O21-C2
2	A	383	POV	C211-C212-C213-C214
2	A	324	POV	C24-C25-C26-C27
2	B	317	POV	C1-O11-P-O12
2	B	306	POV	C1-O11-P-O12
2	A	414	POV	C1-O11-P-O12
2	B	377	POV	C11-O12-P-O11
2	B	355	POV	C1-O11-P-O12
2	B	304	POV	C11-O12-P-O11
2	A	306	POV	C2-C1-O11-P
2	A	354	POV	C2-C1-O11-P
2	B	303	POV	C2-C1-O11-P
2	A	394	POV	C2-C1-O11-P
2	A	387	POV	C2-C1-O11-P
2	A	311	POV	C211-C212-C213-C214
2	B	331	POV	C310-C311-C312-C313
2	A	326	POV	C33-C34-C35-C36
2	A	325	POV	C32-C31-O31-C3
2	A	359	POV	O11-C1-C2-C3
2	A	364	POV	O11-C1-C2-C3
2	B	372	POV	O11-C1-C2-C3
2	A	356	POV	O11-C1-C2-C3
2	A	319	POV	O11-C1-C2-C3
3	A	404	CLR	C21-C20-C22-C23
2	B	307	POV	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
2	A	353	POV	C36-C37-C38-C39
2	B	313	POV	C210-C211-C212-C213
2	B	332	POV	C26-C27-C28-C29
2	A	384	POV	C26-C27-C28-C29
2	A	339	POV	C25-C26-C27-C28
2	B	359	POV	C32-C31-O31-C3
2	A	368	POV	C24-C25-C26-C27
2	A	385	POV	C311-C310-C39-C38
2	A	301	POV	C34-C35-C36-C37
2	A	346	POV	C312-C313-C314-C315
2	B	349	POV	C32-C33-C34-C35
2	B	368	POV	C312-C313-C314-C315
2	A	397	POV	C211-C212-C213-C214
2	B	357	POV	C31-C32-C33-C34
2	B	361	POV	C22-C21-O21-C2
2	A	334	POV	C22-C21-O21-C2
2	B	362	POV	C22-C21-O21-C2
2	B	318	POV	C22-C21-O21-C2
2	B	340	POV	C22-C21-O21-C2
2	A	352	POV	C312-C313-C314-C315
2	A	335	POV	C22-C23-C24-C25
2	B	348	POV	C214-C215-C216-C217
2	B	343	POV	C23-C24-C25-C26
2	A	353	POV	C1-C2-C3-O31
2	A	352	POV	C1-C2-C3-O31
2	A	346	POV	C25-C26-C27-C28
2	A	321	POV	C1-C2-C3-O31
2	A	305	POV	C1-C2-C3-O31
2	B	331	POV	C211-C212-C213-C214
2	A	385	POV	C37-C38-C39-C310
2	A	326	POV	C1-C2-C3-O31
2	B	336	POV	C214-C215-C216-C217
2	B	325	POV	C21-C22-C23-C24
2	B	322	POV	C213-C214-C215-C216
2	A	359	POV	C37-C38-C39-C310
2	A	325	POV	C23-C24-C25-C26
2	B	345	POV	C310-C311-C312-C313
2	A	363	POV	C33-C34-C35-C36
2	A	346	POV	C34-C35-C36-C37
2	B	329	POV	C23-C24-C25-C26
2	B	323	POV	O31-C31-C32-C33
2	A	373	POV	C21-C22-C23-C24

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	B	313	POV	C211-C212-C213-C214
2	B	302	POV	C33-C34-C35-C36
2	B	324	POV	C26-C27-C28-C29
2	B	318	POV	C26-C27-C28-C29
3	B	399	CLR	C20-C22-C23-C24
2	A	379	POV	C22-C21-O21-C2
2	B	346	POV	C22-C21-O21-C2
2	B	378	POV	C313-C314-C315-C316
2	A	346	POV	C21-C22-C23-C24
2	A	329	POV	C21-C22-C23-C24
2	B	334	POV	C32-C31-O31-C3
2	A	416	POV	C32-C33-C34-C35
2	A	385	POV	C313-C314-C315-C316
2	A	408	POV	C25-C26-C27-C28
2	B	386	POV	C32-C33-C34-C35
2	B	378	POV	C310-C311-C312-C313
2	B	317	POV	C27-C28-C29-C210
2	A	339	POV	C2-C1-O11-P
2	A	310	POV	C311-C310-C39-C38
2	A	324	POV	C22-C23-C24-C25
2	A	385	POV	C25-C26-C27-C28
2	B	334	POV	C35-C36-C37-C38
2	B	323	POV	C32-C31-O31-C3
2	A	413	POV	O11-C1-C2-O21
2	A	351	POV	O11-C1-C2-O21
2	B	372	POV	O11-C1-C2-O21
2	A	322	POV	C31-C32-C33-C34
2	B	303	POV	C31-C32-C33-C34
3	A	420	CLR	C22-C23-C24-C25
2	A	363	POV	C24-C25-C26-C27
2	B	306	POV	C32-C33-C34-C35
2	B	339	POV	C35-C36-C37-C38
2	A	384	POV	C210-C211-C212-C213
2	A	331	POV	O21-C2-C3-O31
2	A	360	POV	C311-C312-C313-C314
2	B	362	POV	C312-C313-C314-C315
2	A	356	POV	C24-C25-C26-C27
2	A	345	POV	C37-C38-C39-C310
2	B	342	POV	C35-C36-C37-C38
3	B	390	CLR	C17-C20-C22-C23
2	B	317	POV	C23-C24-C25-C26
2	A	380	POV	C34-C35-C36-C37

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Mol	Chain	Res	Type	Atoms
2	A	336	POV	C22-C23-C24-C25
2	A	375	POV	C27-C28-C29-C210
2	B	322	POV	C39-C310-C311-C312
2	A	359	POV	C2-C3-O31-C31
2	B	310	POV	C31-C32-C33-C34
2	A	412	POV	C22-C23-C24-C25
2	A	320	POV	C24-C25-C26-C27
2	A	312	POV	C34-C35-C36-C37
2	B	307	POV	C32-C31-O31-C3
2	B	387	POV	C32-C31-O31-C3
2	B	311	POV	C35-C36-C37-C38
2	A	388	POV	C21-C22-C23-C24
2	A	378	POV	C212-C213-C214-C215
2	A	351	POV	C33-C34-C35-C36
2	A	395	POV	C37-C38-C39-C310
2	A	362	POV	C22-C21-O21-C2
2	B	329	POV	C22-C21-O21-C2
2	B	349	POV	C22-C21-O21-C2
2	A	301	POV	C215-C216-C217-C218
2	A	301	POV	C32-C31-O31-C3
2	A	365	POV	C313-C314-C315-C316
2	B	357	POV	C310-C311-C312-C313
2	B	304	POV	C23-C24-C25-C26
2	B	310	POV	O31-C31-C32-C33
2	A	384	POV	C29-C210-C211-C212
2	B	346	POV	C29-C210-C211-C212
2	A	399	POV	C313-C314-C315-C316
2	A	318	POV	C214-C215-C216-C217
2	A	368	POV	O11-C1-C2-C3
2	B	325	POV	O11-C1-C2-C3
2	A	392	POV	O11-C1-C2-C3
2	A	382	POV	O11-C1-C2-C3
2	B	303	POV	O11-C1-C2-C3
2	A	317	POV	O11-C1-C2-C3
2	A	357	POV	O11-C1-C2-C3
2	B	322	POV	C212-C213-C214-C215
2	A	381	POV	C31-C32-C33-C34
2	A	335	POV	C31-C32-C33-C34
2	B	320	POV	C31-C32-C33-C34
2	A	303	POV	C21-C22-C23-C24
2	B	333	POV	C311-C312-C313-C314
2	A	381	POV	C36-C37-C38-C39

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Mol	Chain	Res	Type	Atoms
2	A	393	POV	C212-C213-C214-C215
2	B	378	POV	C36-C37-C38-C39
2	B	321	POV	C39-C310-C311-C312
2	A	381	POV	C22-C21-O21-C2
2	A	320	POV	C32-C31-O31-C3
2	A	382	POV	O21-C21-C22-C23
2	B	344	POV	C31-C32-C33-C34
2	A	360	POV	C32-C33-C34-C35
2	A	307	POV	C2-C1-O11-P
2	B	313	POV	C2-C1-O11-P
2	B	332	POV	C2-C1-O11-P
2	B	320	POV	C2-C1-O11-P
2	B	345	POV	C2-C1-O11-P
2	B	351	POV	C2-C1-O11-P
2	A	317	POV	C2-C1-O11-P
2	B	387	POV	C2-C1-O11-P
2	A	309	POV	C2-C1-O11-P
2	A	373	POV	C2-C1-O11-P
2	A	391	POV	C2-C1-O11-P
2	A	335	POV	C35-C36-C37-C38
2	B	302	POV	C211-C212-C213-C214
2	A	412	POV	C313-C314-C315-C316
2	B	319	POV	C212-C213-C214-C215
2	B	361	POV	C312-C313-C314-C315
2	B	361	POV	C34-C35-C36-C37
2	B	332	POV	C39-C310-C311-C312
2	A	322	POV	C37-C38-C39-C310
2	A	399	POV	C312-C313-C314-C315
2	A	376	POV	C211-C212-C213-C214
2	A	371	POV	C311-C310-C39-C38
2	B	338	POV	C312-C313-C314-C315
2	B	347	POV	C32-C31-O31-C3
2	A	389	POV	C1-C2-C3-O31
2	B	360	POV	C1-C2-C3-O31
2	B	382	POV	C1-C2-C3-O31
2	B	304	POV	C1-C2-C3-O31
2	B	371	POV	C24-C25-C26-C27
2	B	326	POV	C313-C314-C315-C316
2	A	323	POV	C39-C310-C311-C312
2	A	359	POV	C22-C23-C24-C25
2	B	306	POV	C31-C32-C33-C34
2	B	316	POV	C31-C32-C33-C34

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Mol	Chain	Res	Type	Atoms
2	A	382	POV	C212-C213-C214-C215
2	B	334	POV	C211-C212-C213-C214
2	B	326	POV	C36-C37-C38-C39
2	B	341	POV	C310-C311-C312-C313
2	A	357	POV	C311-C310-C39-C38
2	A	361	POV	C32-C31-O31-C3
2	A	327	POV	C11-C12-N-C14
2	B	302	POV	C23-C24-C25-C26
2	B	342	POV	C27-C28-C29-C210
2	B	369	POV	C23-C24-C25-C26
2	A	323	POV	C11-O12-P-O11
2	B	374	POV	C1-O11-P-O12
2	B	362	POV	C21-C22-C23-C24
2	A	306	POV	O11-C1-C2-O21
2	B	381	POV	O11-C1-C2-O21
2	A	359	POV	O11-C1-C2-O21
2	A	363	POV	O11-C1-C2-O21
2	A	382	POV	O11-C1-C2-O21
2	A	394	POV	O11-C1-C2-O21
2	A	319	POV	O11-C1-C2-O21
2	B	304	POV	O11-C1-C2-O21
2	B	339	POV	C26-C27-C28-C29
2	B	305	POV	C210-C211-C212-C213
2	B	303	POV	O32-C31-O31-C3
2	A	409	POV	C23-C24-C25-C26
3	A	421	CLR	C21-C20-C22-C23
2	A	412	POV	O21-C2-C3-O31
2	B	307	POV	O21-C2-C3-O31
2	A	378	POV	O21-C2-C3-O31
2	A	371	POV	O21-C2-C3-O31
2	A	387	POV	O21-C2-C3-O31
2	B	315	POV	C25-C26-C27-C28
2	A	356	POV	C23-C24-C25-C26
2	B	311	POV	C212-C213-C214-C215
2	A	368	POV	O22-C21-O21-C2
2	A	315	POV	C32-C33-C34-C35
2	B	375	POV	C211-C212-C213-C214
2	A	318	POV	C215-C216-C217-C218
2	A	352	POV	C2-C1-O11-P
2	A	347	POV	C2-C1-O11-P
2	A	323	POV	C2-C1-O11-P
2	A	390	POV	C2-C1-O11-P

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	416	POV	C2-C1-O11-P
2	A	359	POV	C2-C1-O11-P
2	A	414	POV	C2-C1-O11-P
2	A	325	POV	C2-C1-O11-P
2	B	315	POV	C2-C1-O11-P
2	B	352	POV	C2-C1-O11-P
2	B	307	POV	C2-C1-O11-P
2	A	351	POV	C2-C1-O11-P
2	B	314	POV	C2-C1-O11-P
2	A	385	POV	C2-C1-O11-P
2	B	340	POV	C2-C1-O11-P
2	A	384	POV	C215-C216-C217-C218
2	A	376	POV	C212-C213-C214-C215
2	A	387	POV	C22-C23-C24-C25
2	B	307	POV	C22-C23-C24-C25
2	A	379	POV	C25-C26-C27-C28
2	A	397	POV	C32-C33-C34-C35
2	A	394	POV	C212-C213-C214-C215
2	B	381	POV	C32-C31-O31-C3
2	B	381	POV	C32-C33-C34-C35
2	B	336	POV	C31-C32-C33-C34
2	A	315	POV	C22-C21-O21-C2
2	B	369	POV	C310-C311-C312-C313
2	B	339	POV	C22-C23-C24-C25
2	A	375	POV	C32-C33-C34-C35
2	A	411	POV	C33-C34-C35-C36
2	B	329	POV	C34-C35-C36-C37
2	B	319	POV	C33-C34-C35-C36
2	B	324	POV	C311-C310-C39-C38
2	A	357	POV	C34-C35-C36-C37
2	B	334	POV	C25-C26-C27-C28
2	A	384	POV	O11-C1-C2-C3
2	A	313	POV	O11-C1-C2-C3
2	A	394	POV	O11-C1-C2-C3
2	A	371	POV	O11-C1-C2-C3
2	B	322	POV	C35-C36-C37-C38
2	B	318	POV	C29-C210-C211-C212
2	A	311	POV	C2-C3-O31-C31
2	A	367	POV	C32-C31-O31-C3
2	A	356	POV	C32-C31-O31-C3
3	B	390	CLR	C21-C20-C22-C23
2	B	303	POV	C24-C25-C26-C27

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Mol	Chain	Res	Type	Atoms
2	A	378	POV	C21-C22-C23-C24
2	B	362	POV	C213-C214-C215-C216
2	A	376	POV	C35-C36-C37-C38
2	A	355	POV	C32-C31-O31-C3
2	B	351	POV	C32-C31-O31-C3
2	B	347	POV	C211-C212-C213-C214
2	B	369	POV	C213-C214-C215-C216
2	A	387	POV	C39-C310-C311-C312
2	B	340	POV	C35-C36-C37-C38
2	A	384	POV	C212-C213-C214-C215
2	A	416	POV	C313-C314-C315-C316
2	B	302	POV	C37-C38-C39-C310
2	A	370	POV	C37-C38-C39-C310
2	A	411	POV	C36-C37-C38-C39
2	A	393	POV	C2-C1-O11-P
2	B	312	POV	C2-C1-O11-P
2	A	412	POV	C1-C2-C3-O31
2	A	310	POV	C1-C2-C3-O31
2	B	336	POV	C2-C1-O11-P
2	B	377	POV	C1-C2-C3-O31
2	A	308	POV	C2-C1-O11-P
2	A	305	POV	C2-C1-O11-P
2	A	304	POV	C2-C1-O11-P
2	B	355	POV	C2-C1-O11-P
2	B	345	POV	C213-C214-C215-C216
2	B	360	POV	O11-C1-C2-O21
2	A	370	POV	O11-C1-C2-O21
2	A	364	POV	O11-C1-C2-O21
2	A	313	POV	O11-C1-C2-O21
2	B	303	POV	O11-C1-C2-O21
2	A	415	POV	O11-C1-C2-O21
2	A	317	POV	O11-C1-C2-O21
2	A	356	POV	O11-C1-C2-O21
2	A	343	POV	O31-C31-C32-C33
2	A	378	POV	C36-C37-C38-C39
2	B	361	POV	C27-C28-C29-C210
2	A	394	POV	C29-C210-C211-C212
2	B	312	POV	C212-C213-C214-C215
2	B	387	POV	C32-C33-C34-C35
2	A	372	POV	C310-C311-C312-C313
2	A	336	POV	C21-C22-C23-C24
2	A	416	POV	C37-C38-C39-C310

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	313	POV	C313-C314-C315-C316
2	A	386	POV	C212-C213-C214-C215
2	A	372	POV	C214-C215-C216-C217
2	A	353	POV	O21-C2-C3-O31
2	B	371	POV	O21-C2-C3-O31
2	A	352	POV	O21-C2-C3-O31
2	B	333	POV	O21-C2-C3-O31
2	A	355	POV	O21-C2-C3-O31
2	B	374	POV	O21-C2-C3-O31
2	A	313	POV	O21-C2-C3-O31
2	A	365	POV	O21-C2-C3-O31
2	B	304	POV	O21-C2-C3-O31
2	A	376	POV	C32-C31-O31-C3
2	A	315	POV	C310-C311-C312-C313
2	B	327	POV	C211-C212-C213-C214
2	B	348	POV	C213-C214-C215-C216
2	B	365	POV	C213-C214-C215-C216
2	A	305	POV	C22-C23-C24-C25
2	A	381	POV	C213-C214-C215-C216
2	B	365	POV	C22-C21-O21-C2
2	B	334	POV	C26-C27-C28-C29
2	B	326	POV	C35-C36-C37-C38
2	B	373	POV	C34-C35-C36-C37
2	A	302	POV	C37-C38-C39-C310
2	B	330	POV	C310-C311-C312-C313
2	A	324	POV	C32-C33-C34-C35
2	B	339	POV	C312-C313-C314-C315
2	B	343	POV	C213-C214-C215-C216
2	B	335	POV	C37-C38-C39-C310
2	A	337	POV	O32-C31-O31-C3
2	A	303	POV	C31-C32-C33-C34
2	A	304	POV	C214-C215-C216-C217
2	B	363	POV	O31-C31-C32-C33
2	B	305	POV	C311-C312-C313-C314
2	B	348	POV	O32-C31-O31-C3
2	A	302	POV	C33-C34-C35-C36
2	B	332	POV	C311-C310-C39-C38
2	A	396	POV	C25-C26-C27-C28
2	A	348	POV	C22-C21-O21-C2
2	B	311	POV	C311-C310-C39-C38
2	A	321	POV	C2-C3-O31-C31
2	A	373	POV	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
2	B	371	POV	C1-O11-P-O12
2	B	361	POV	C1-O11-P-O12
2	B	361	POV	C11-O12-P-O11
2	A	354	POV	C11-O12-P-O11
2	B	367	POV	C11-O12-P-O11
2	B	365	POV	C11-O12-P-O11
2	B	379	POV	C11-O12-P-O11
2	B	333	POV	C11-O12-P-O11
2	A	347	POV	C11-O12-P-O11
2	A	362	POV	C11-O12-P-O11
2	A	330	POV	C1-O11-P-O12
2	A	413	POV	C11-O12-P-O11
2	A	329	POV	C1-O11-P-O12
2	A	327	POV	C11-O12-P-O11
2	A	398	POV	C11-O12-P-O11
2	B	320	POV	C11-O12-P-O11
2	A	409	POV	C11-O12-P-O11
2	A	331	POV	C11-O12-P-O11
2	A	355	POV	C11-O12-P-O11
2	A	379	POV	C11-O12-P-O11
2	A	313	POV	C1-O11-P-O12
2	A	382	POV	C11-O12-P-O11
2	A	340	POV	C11-O12-P-O11
2	A	339	POV	C11-O12-P-O11
2	B	331	POV	C11-O12-P-O11
2	A	358	POV	C1-O11-P-O12
2	A	374	POV	C11-O12-P-O11
2	A	369	POV	C1-O11-P-O12
2	A	345	POV	C11-O12-P-O11
2	A	391	POV	C11-O12-P-O11
2	B	338	POV	C1-O11-P-O12
2	A	381	POV	C22-C23-C24-C25
2	B	379	POV	C311-C310-C39-C38
2	B	324	POV	C37-C38-C39-C310
2	A	304	POV	C24-C25-C26-C27
2	B	317	POV	C2-C1-O11-P
2	A	336	POV	C2-C1-O11-P
2	A	372	POV	C2-C1-O11-P
2	A	342	POV	C2-C1-O11-P
2	B	341	POV	C2-C1-O11-P
2	B	318	POV	C2-C1-O11-P
2	A	331	POV	C2-C1-O11-P

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	392	POV	C2-C1-O11-P
2	A	407	POV	C2-C1-O11-P
2	B	376	POV	C311-C310-C39-C38
2	B	358	POV	C33-C34-C35-C36
2	A	368	POV	C11-O12-P-O13
2	B	350	POV	C11-O12-P-O13
2	A	377	POV	C1-O11-P-O13
2	A	375	POV	C1-O11-P-O14
2	A	341	POV	C1-O11-P-O13
2	B	347	POV	C1-O11-P-O13
2	B	326	POV	C1-O11-P-O14
2	A	347	POV	C1-O11-P-O13
2	B	324	POV	C11-O12-P-O14
2	A	334	POV	C1-O11-P-O14
2	B	384	POV	C11-O12-P-O13
2	A	390	POV	C11-O12-P-O14
2	B	341	POV	C1-O11-P-O14
2	B	318	POV	C1-O11-P-O13
2	A	414	POV	C1-O11-P-O13
2	A	325	POV	C11-O12-P-O14
2	B	389	POV	C1-O11-P-O13
2	A	310	POV	C11-O12-P-O14
2	B	336	POV	C1-O11-P-O13
2	A	312	POV	C1-O11-P-O13
2	A	366	POV	C1-O11-P-O14
2	A	324	POV	C1-O11-P-O13
2	B	307	POV	C1-O11-P-O14
2	B	374	POV	C1-O11-P-O14
2	A	313	POV	C1-O11-P-O14
2	B	321	POV	C1-O11-P-O13
2	A	340	POV	C11-O12-P-O13
2	B	382	POV	C1-O11-P-O13
2	B	385	POV	C1-O11-P-O14
2	B	385	POV	C11-O12-P-O13
2	B	349	POV	C11-O12-P-O13
2	B	370	POV	C11-O12-P-O13
2	B	372	POV	C11-O12-P-O13
2	A	394	POV	C1-O11-P-O14
2	B	339	POV	C1-O11-P-O14
2	B	344	POV	C1-O11-P-O14
2	A	417	POV	C11-O12-P-O13
2	A	395	POV	C1-O11-P-O14

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	371	POV	C11-O12-P-O14
2	A	326	POV	C11-O12-P-O13
2	A	387	POV	C1-O11-P-O14
2	A	397	POV	C11-O12-P-O14
2	B	355	POV	C11-O12-P-O13
2	A	314	POV	C1-O11-P-O13
2	B	383	POV	C11-O12-P-O13
2	A	322	POV	C21-C22-C23-C24
2	A	387	POV	C2-C3-O31-C31
2	A	352	POV	C32-C31-O31-C3
2	B	317	POV	C32-C31-O31-C3
2	A	343	POV	C32-C31-O31-C3
2	A	393	POV	O11-C1-C2-C3
2	A	306	POV	O11-C1-C2-C3
2	B	381	POV	O11-C1-C2-C3
2	A	413	POV	O11-C1-C2-C3
2	A	331	POV	O11-C1-C2-C3
2	A	363	POV	O11-C1-C2-C3
2	B	357	POV	O11-C1-C2-C3
2	A	410	POV	C313-C314-C315-C316
2	B	339	POV	C37-C38-C39-C310
2	A	348	POV	C25-C26-C27-C28
2	B	356	POV	C211-C212-C213-C214
2	A	411	POV	C311-C312-C313-C314
2	A	393	POV	C12-C11-O12-P
2	A	328	POV	C12-C11-O12-P
2	A	352	POV	C12-C11-O12-P
2	B	361	POV	C12-C11-O12-P
2	A	389	POV	C12-C11-O12-P
2	A	354	POV	C12-C11-O12-P
2	B	367	POV	C12-C11-O12-P
2	A	301	POV	C12-C11-O12-P
2	B	347	POV	C12-C11-O12-P
2	B	312	POV	C12-C11-O12-P
2	B	379	POV	C12-C11-O12-P
2	B	333	POV	C12-C11-O12-P
2	A	347	POV	C12-C11-O12-P
2	A	323	POV	C12-C11-O12-P
2	B	324	POV	C12-C11-O12-P
2	A	334	POV	C12-C11-O12-P
2	A	330	POV	C12-C11-O12-P
2	A	390	POV	C12-C11-O12-P

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	B	373	POV	C12-C11-O12-P
2	B	354	POV	C12-C11-O12-P
2	A	359	POV	C12-C11-O12-P
2	A	413	POV	C12-C11-O12-P
2	B	360	POV	C12-C11-O12-P
2	B	341	POV	C12-C11-O12-P
2	B	318	POV	C12-C11-O12-P
2	A	409	POV	C12-C11-O12-P
2	A	331	POV	C12-C11-O12-P
2	B	315	POV	C12-C11-O12-P
2	A	321	POV	C12-C11-O12-P
2	B	336	POV	C12-C11-O12-P
2	A	312	POV	C12-C11-O12-P
2	A	370	POV	C12-C11-O12-P
2	A	364	POV	C12-C11-O12-P
2	A	324	POV	C12-C11-O12-P
2	A	384	POV	C12-C11-O12-P
2	A	379	POV	C12-C11-O12-P
2	A	378	POV	C12-C11-O12-P
2	B	321	POV	C12-C11-O12-P
2	A	340	POV	C12-C11-O12-P
2	A	305	POV	C12-C11-O12-P
2	B	382	POV	C12-C11-O12-P
2	B	364	POV	C12-C11-O12-P
2	A	351	POV	C12-C11-O12-P
2	B	314	POV	C12-C11-O12-P
2	B	357	POV	C12-C11-O12-P
2	B	309	POV	C12-C11-O12-P
2	A	407	POV	C12-C11-O12-P
2	B	368	POV	C12-C11-O12-P
2	B	388	POV	C12-C11-O12-P
2	B	369	POV	C12-C11-O12-P
2	A	356	POV	C12-C11-O12-P
2	B	328	POV	C12-C11-O12-P
2	B	316	POV	C12-C11-O12-P
2	A	369	POV	C12-C11-O12-P
2	A	345	POV	C12-C11-O12-P
2	B	338	POV	C12-C11-O12-P
2	B	335	POV	C12-C11-O12-P
2	B	319	POV	C21-C22-C23-C24
2	A	413	POV	C35-C36-C37-C38
2	A	308	POV	C33-C34-C35-C36

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	308	POV	C210-C211-C212-C213
2	A	393	POV	C32-C33-C34-C35
2	A	347	POV	C21-C22-C23-C24
2	B	387	POV	C31-C32-C33-C34
2	A	323	POV	C311-C310-C39-C38
2	A	321	POV	C37-C38-C39-C310
2	B	346	POV	C310-C311-C312-C313
2	B	325	POV	O11-C1-C2-O21
2	B	360	POV	C21-C22-C23-C24
2	A	331	POV	O11-C1-C2-O21
2	A	366	POV	O11-C1-C2-O21
2	A	392	POV	O11-C1-C2-O21
2	A	350	POV	C31-C32-C33-C34
2	A	357	POV	O11-C1-C2-O21
2	A	313	POV	C311-C310-C39-C38
2	B	385	POV	C313-C314-C315-C316
2	B	383	POV	C29-C210-C211-C212
2	B	344	POV	C36-C37-C38-C39
2	B	389	POV	C21-C22-C23-C24
2	A	356	POV	C22-C21-O21-C2
2	A	399	POV	C32-C33-C34-C35
2	B	347	POV	C11-C12-N-C14
2	A	334	POV	C11-C12-N-C13
2	A	327	POV	C11-C12-N-C15
2	A	347	POV	C34-C35-C36-C37
2	A	347	POV	C35-C36-C37-C38
2	A	392	POV	C312-C313-C314-C315
2	B	317	POV	C21-C22-C23-C24
2	A	408	POV	C1-C2-C3-O31
2	B	371	POV	C1-C2-C3-O31
2	A	352	POV	O12-C11-C12-N
2	B	359	POV	O12-C11-C12-N
2	A	301	POV	C35-C36-C37-C38
2	A	375	POV	O12-C11-C12-N
2	B	379	POV	O12-C11-C12-N
2	A	343	POV	O12-C11-C12-N
2	B	384	POV	O12-C11-C12-N
2	A	330	POV	O12-C11-C12-N
2	A	390	POV	O12-C11-C12-N
2	A	338	POV	O12-C11-C12-N
2	A	412	POV	O12-C11-C12-N
2	B	332	POV	O12-C11-C12-N

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Mol	Chain	Res	Type	Atoms
2	A	331	POV	O12-C11-C12-N
2	B	336	POV	O12-C11-C12-N
2	B	356	POV	O12-C11-C12-N
2	B	307	POV	C1-C2-C3-O31
2	B	374	POV	O12-C11-C12-N
2	A	379	POV	O12-C11-C12-N
2	A	415	POV	O12-C11-C12-N
2	B	364	POV	O12-C11-C12-N
2	B	343	POV	C1-C2-C3-O31
2	A	397	POV	O12-C11-C12-N
2	A	344	POV	O12-C11-C12-N
2	B	304	POV	C33-C34-C35-C36
2	A	408	POV	O21-C2-C3-O31
2	A	389	POV	O21-C2-C3-O31
2	B	381	POV	O21-C2-C3-O31
2	B	302	POV	O21-C2-C3-O31
2	A	398	POV	O21-C2-C3-O31
2	A	325	POV	O21-C2-C3-O31
2	A	321	POV	O21-C2-C3-O31
2	B	382	POV	O21-C2-C3-O31
2	B	343	POV	O21-C2-C3-O31
2	A	338	POV	C312-C313-C314-C315
2	A	409	POV	C22-C23-C24-C25
2	A	311	POV	C310-C311-C312-C313
2	B	381	POV	C2-C1-O11-P
2	A	409	POV	C2-C1-O11-P
2	A	364	POV	C2-C1-O11-P
2	B	346	POV	C2-C1-O11-P
2	B	371	POV	C310-C311-C312-C313
2	A	320	POV	C39-C310-C311-C312
2	A	317	POV	C37-C38-C39-C310
2	A	358	POV	C35-C36-C37-C38
2	A	353	POV	C213-C214-C215-C216
2	B	384	POV	C21-C22-C23-C24
2	A	353	POV	C35-C36-C37-C38
2	A	320	POV	C311-C312-C313-C314
2	B	319	POV	C31-C32-C33-C34
2	B	331	POV	C39-C310-C311-C312
3	A	402	CLR	C16-C17-C20-C22
2	A	347	POV	C23-C24-C25-C26
2	B	338	POV	C33-C34-C35-C36
2	B	379	POV	C210-C211-C212-C213

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Mol	Chain	Res	Type	Atoms
2	A	370	POV	C25-C26-C27-C28
2	A	318	POV	C36-C37-C38-C39
2	B	347	POV	C11-C12-N-C13
2	B	384	POV	C32-C33-C34-C35
2	A	407	POV	C36-C37-C38-C39
2	B	311	POV	C36-C37-C38-C39
2	B	365	POV	O32-C31-O31-C3
2	A	322	POV	C22-C21-O21-C2
2	A	316	POV	C22-C21-O21-C2
2	A	400	POV	C36-C37-C38-C39
2	B	373	POV	C35-C36-C37-C38
2	B	373	POV	C33-C34-C35-C36
2	A	341	POV	C27-C28-C29-C210
2	A	365	POV	C32-C33-C34-C35
2	B	382	POV	C35-C36-C37-C38
2	B	368	POV	C33-C34-C35-C36
2	A	388	POV	C211-C212-C213-C214
2	B	361	POV	C1-C2-O21-C21
2	B	313	POV	C1-C2-O21-C21
2	B	360	POV	C3-C2-O21-C21
2	B	307	POV	C1-C2-O21-C21
2	B	353	POV	C1-C2-O21-C21
2	A	384	POV	C1-C2-O21-C21
2	B	304	POV	O11-C1-C2-C3
2	A	416	POV	C32-C31-O31-C3
2	A	313	POV	C32-C31-O31-C3
2	A	344	POV	C310-C311-C312-C313
2	A	350	POV	C311-C310-C39-C38
2	B	377	POV	C22-C23-C24-C25
2	A	390	POV	C23-C24-C25-C26
2	A	378	POV	C27-C28-C29-C210
2	B	301	POV	C2-C1-O11-P
2	B	378	POV	C2-C1-O11-P
2	A	340	POV	C2-C1-O11-P
2	B	327	POV	C2-C1-O11-P
2	A	391	POV	C211-C212-C213-C214
2	B	352	POV	O32-C31-O31-C3
2	A	368	POV	O11-C1-C2-O21
2	A	348	POV	O11-C1-C2-O21
2	A	371	POV	O11-C1-C2-O21
2	B	380	POV	C25-C26-C27-C28
2	A	327	POV	C11-C12-N-C13

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Mol	Chain	Res	Type	Atoms
2	A	410	POV	C214-C215-C216-C217
2	A	376	POV	O31-C31-C32-C33
2	A	365	POV	O21-C21-C22-C23
2	A	381	POV	C37-C38-C39-C310
2	A	303	POV	C212-C213-C214-C215
2	A	333	POV	C22-C21-O21-C2
2	A	372	POV	C22-C21-O21-C2
2	A	390	POV	C22-C21-O21-C2
2	A	346	POV	C33-C34-C35-C36
2	A	337	POV	C33-C34-C35-C36
2	A	310	POV	O21-C2-C3-O31
2	B	305	POV	O21-C2-C3-O31
2	A	326	POV	O21-C2-C3-O31
2	A	370	POV	C311-C312-C313-C314
2	A	339	POV	C32-C33-C34-C35
2	A	408	POV	C11-O12-P-O11
2	A	328	POV	C1-O11-P-O12
2	B	386	POV	C1-O11-P-O12
2	B	359	POV	C11-O12-P-O11
2	A	375	POV	C11-O12-P-O11
2	B	330	POV	C1-O11-P-O12
2	B	330	POV	C11-O12-P-O11
2	B	381	POV	C1-O11-P-O12
2	A	346	POV	C11-O12-P-O11
2	B	326	POV	C1-O11-P-O12
2	B	312	POV	C11-O12-P-O11
2	A	400	POV	C11-O12-P-O11
2	A	334	POV	C11-O12-P-O11
2	A	311	POV	C1-O11-P-O12
2	B	313	POV	C11-O12-P-O11
2	B	373	POV	C11-O12-P-O11
2	A	342	POV	C11-O12-P-O11
2	B	380	POV	C11-O12-P-O11
2	A	359	POV	C11-O12-P-O11
2	A	335	POV	C1-O11-P-O12
2	A	335	POV	C11-O12-P-O11
2	B	360	POV	C11-O12-P-O11
2	A	302	POV	C1-O11-P-O12
2	A	302	POV	C11-O12-P-O11
2	B	302	POV	C1-O11-P-O12
2	B	329	POV	C1-O11-P-O12
2	B	341	POV	C11-O12-P-O11

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	B	362	POV	C1-O11-P-O12
2	A	383	POV	C1-O11-P-O12
2	A	383	POV	C11-O12-P-O11
2	A	412	POV	C1-O11-P-O12
2	A	320	POV	C11-O12-P-O11
2	A	414	POV	C11-O12-P-O11
2	B	315	POV	C11-O12-P-O11
2	B	363	POV	C1-O11-P-O12
2	B	389	POV	C11-O12-P-O11
2	B	336	POV	C1-O11-P-O12
2	A	348	POV	C11-O12-P-O11
2	B	356	POV	C1-O11-P-O12
2	A	370	POV	C1-O11-P-O12
2	A	370	POV	C11-O12-P-O11
2	B	352	POV	C11-O12-P-O11
2	B	375	POV	C11-O12-P-O11
2	A	363	POV	C11-O12-P-O11
2	A	308	POV	C11-O12-P-O11
2	B	353	POV	C1-O11-P-O12
2	A	384	POV	C1-O11-P-O12
2	B	321	POV	C11-O12-P-O11
2	A	303	POV	C11-O12-P-O11
2	B	303	POV	C11-O12-P-O11
2	A	305	POV	C11-O12-P-O11
2	A	415	POV	C11-O12-P-O11
2	A	380	POV	C1-O11-P-O12
2	B	327	POV	C11-O12-P-O11
2	A	351	POV	C11-O12-P-O11
2	B	314	POV	C1-O11-P-O12
2	B	314	POV	C11-O12-P-O11
2	B	309	POV	C1-O11-P-O12
2	A	407	POV	C1-O11-P-O12
2	A	407	POV	C11-O12-P-O11
2	B	323	POV	C11-O12-P-O11
2	A	332	POV	C11-O12-P-O11
2	B	368	POV	C1-O11-P-O12
2	B	310	POV	C11-O12-P-O11
2	A	396	POV	C11-O12-P-O11
2	B	388	POV	C1-O11-P-O12
2	B	388	POV	C11-O12-P-O11
2	B	369	POV	C1-O11-P-O12
2	B	339	POV	C11-O12-P-O11

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Mol	Chain	Res	Type	Atoms
2	A	309	POV	C1-O11-P-O12
2	A	309	POV	C11-O12-P-O11
2	B	344	POV	C11-O12-P-O11
2	A	357	POV	C1-O11-P-O12
2	A	304	POV	C11-O12-P-O11
2	A	365	POV	C1-O11-P-O12
2	A	365	POV	C11-O12-P-O11
2	B	366	POV	C11-O12-P-O11
2	B	308	POV	C11-O12-P-O11
2	B	328	POV	C11-O12-P-O11
2	B	343	POV	C1-O11-P-O12
2	B	316	POV	C1-O11-P-O12
2	A	386	POV	C1-O11-P-O12
2	A	314	POV	C11-O12-P-O11
2	B	358	POV	C1-O11-P-O12
2	B	358	POV	C11-O12-P-O11
2	B	342	POV	C11-O12-P-O11
2	A	391	POV	C1-O11-P-O12
2	B	311	POV	C1-O11-P-O12
2	B	377	POV	C21-C22-C23-C24
2	B	344	POV	C311-C312-C313-C314
2	B	383	POV	C36-C37-C38-C39
2	B	309	POV	C22-C23-C24-C25
2	A	409	POV	C21-C22-C23-C24
2	B	350	POV	C1-C2-C3-O31
2	A	336	POV	C1-C2-C3-O31
2	B	313	POV	C1-C2-C3-O31
2	A	392	POV	C33-C34-C35-C36
2	B	335	POV	C34-C35-C36-C37
2	A	311	POV	C31-C32-C33-C34
2	A	316	POV	C27-C28-C29-C210
2	B	380	POV	C32-C33-C34-C35
2	A	366	POV	C35-C36-C37-C38
2	A	378	POV	C213-C214-C215-C216
2	A	357	POV	C26-C27-C28-C29
2	A	310	POV	C21-C22-C23-C24
2	B	346	POV	C35-C36-C37-C38
2	A	314	POV	C35-C36-C37-C38
2	A	345	POV	C36-C37-C38-C39
2	A	370	POV	C312-C313-C314-C315
2	A	394	POV	C22-C23-C24-C25
2	B	322	POV	C36-C37-C38-C39

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Mol	Chain	Res	Type	Atoms
2	A	328	POV	C2-C1-O11-P
2	A	367	POV	C2-C1-O11-P
2	A	393	POV	C24-C25-C26-C27
2	A	311	POV	C34-C35-C36-C37
2	A	339	POV	O31-C31-C32-C33
2	B	314	POV	C29-C210-C211-C212
2	A	362	POV	C23-C24-C25-C26
2	A	365	POV	O22-C21-C22-C23
2	A	353	POV	C32-C31-O31-C3
2	B	358	POV	C32-C33-C34-C35
2	A	342	POV	C26-C27-C28-C29
2	A	315	POV	C26-C27-C28-C29
2	B	336	POV	C26-C27-C28-C29
2	A	364	POV	C24-C25-C26-C27
2	A	399	POV	C211-C212-C213-C214
2	A	304	POV	C211-C212-C213-C214
2	B	311	POV	C310-C311-C312-C313
2	B	336	POV	C25-C26-C27-C28
2	B	362	POV	C211-C212-C213-C214
2	A	383	POV	C36-C37-C38-C39
2	B	388	POV	C311-C312-C313-C314
2	B	338	POV	C214-C215-C216-C217
2	B	307	POV	C34-C35-C36-C37
2	A	334	POV	C11-C12-N-C15
2	B	362	POV	C212-C213-C214-C215
2	A	376	POV	C311-C310-C39-C38
2	A	411	POV	C310-C311-C312-C313
2	B	354	POV	O11-C1-C2-C3
2	A	370	POV	O11-C1-C2-C3
2	A	317	POV	O32-C31-O31-C3
2	A	411	POV	C32-C33-C34-C35
2	B	374	POV	C24-C25-C26-C27
2	A	396	POV	C22-C21-O21-C2
2	B	341	POV	O11-C1-C2-O21
2	A	376	POV	C23-C24-C25-C26
3	A	418	CLR	C23-C24-C25-C26
2	A	309	POV	C2-C3-O31-C31
2	A	383	POV	C311-C310-C39-C38
2	A	317	POV	C35-C36-C37-C38
2	A	324	POV	C25-C26-C27-C28
2	B	365	POV	C21-C22-C23-C24
2	A	408	POV	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
2	A	320	POV	O21-C2-C3-O31
2	A	415	POV	O21-C2-C3-O31
2	A	395	POV	O21-C2-C3-O31
2	B	384	POV	C33-C34-C35-C36
2	B	302	POV	C35-C36-C37-C38
2	A	345	POV	C34-C35-C36-C37
2	A	320	POV	C2-C1-O11-P
2	A	398	POV	C2-C1-O11-P
2	A	336	POV	C311-C312-C313-C314
2	B	355	POV	C213-C214-C215-C216
2	B	347	POV	C11-C12-N-C15
2	B	321	POV	C27-C28-C29-C210
2	B	323	POV	C29-C210-C211-C212
2	B	346	POV	C27-C28-C29-C210
2	A	355	POV	C311-C312-C313-C314
2	B	358	POV	C2-C3-O31-C31
2	B	332	POV	C211-C212-C213-C214
2	A	378	POV	C311-C310-C39-C38
2	A	410	POV	C33-C34-C35-C36
2	B	324	POV	C23-C24-C25-C26
2	A	397	POV	C39-C310-C311-C312
2	A	327	POV	O31-C31-C32-C33
2	A	328	POV	C212-C213-C214-C215
2	A	395	POV	C36-C37-C38-C39
2	B	381	POV	C1-C2-C3-O31
2	A	304	POV	C32-C33-C34-C35
2	A	332	POV	O31-C31-C32-C33
2	B	383	POV	O21-C21-C22-C23
2	A	342	POV	C214-C215-C216-C217
2	A	396	POV	C32-C31-O31-C3
2	B	357	POV	C213-C214-C215-C216
2	B	312	POV	C210-C211-C212-C213
2	B	378	POV	C26-C27-C28-C29
2	B	341	POV	C2-C3-O31-C31
2	B	380	POV	C212-C213-C214-C215
2	B	349	POV	C36-C37-C38-C39
2	A	389	POV	C1-C2-O21-C21
2	A	389	POV	C3-C2-O21-C21
2	B	325	POV	C3-C2-O21-C21
2	B	333	POV	C3-C2-O21-C21
2	A	315	POV	C1-C2-O21-C21
2	A	327	POV	C1-C2-O21-C21

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Mol	Chain	Res	Type	Atoms
2	A	327	POV	C3-C2-O21-C21
2	A	325	POV	C3-C2-O21-C21
2	A	331	POV	C1-C2-O21-C21
2	A	366	POV	C1-C2-O21-C21
2	A	415	POV	C3-C2-O21-C21
2	B	382	POV	C3-C2-O21-C21
2	B	348	POV	C3-C2-O21-C21
2	B	368	POV	C1-C2-O21-C21
2	B	331	POV	C3-C2-O21-C21
2	B	340	POV	C3-C2-O21-C21
2	A	393	POV	C211-C212-C213-C214
2	A	334	POV	C11-C12-N-C14
2	B	305	POV	C311-C310-C39-C38
2	A	373	POV	C310-C311-C312-C313
2	A	368	POV	C11-O12-P-O11
2	A	360	POV	C1-O11-P-O12
2	B	376	POV	C11-O12-P-O11
2	A	305	POV	O31-C31-C32-C33
2	B	313	POV	C311-C312-C313-C314
2	B	313	POV	C312-C313-C314-C315
2	A	348	POV	C214-C215-C216-C217
2	A	383	POV	C313-C314-C315-C316
2	A	374	POV	C36-C37-C38-C39
2	A	345	POV	C212-C213-C214-C215
2	B	304	POV	C24-C25-C26-C27
2	A	332	POV	C32-C31-O31-C3
2	A	325	POV	C39-C310-C311-C312
2	A	313	POV	C214-C215-C216-C217
2	A	338	POV	C210-C211-C212-C213
2	B	369	POV	C26-C27-C28-C29
2	A	342	POV	O11-C1-C2-C3
2	B	366	POV	O11-C1-C2-C3
2	A	375	POV	C211-C212-C213-C214
2	B	323	POV	C311-C312-C313-C314
2	B	371	POV	C34-C35-C36-C37
2	A	354	POV	C37-C38-C39-C310
3	A	421	CLR	C20-C22-C23-C24
2	B	345	POV	C25-C26-C27-C28
2	B	349	POV	C35-C36-C37-C38
2	B	343	POV	C313-C314-C315-C316
2	A	350	POV	C311-C312-C313-C314
2	B	364	POV	C212-C213-C214-C215

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	303	POV	C23-C24-C25-C26
2	A	394	POV	C312-C313-C314-C315
2	B	383	POV	O22-C21-C22-C23
2	B	345	POV	C211-C212-C213-C214
2	A	416	POV	C35-C36-C37-C38
2	B	320	POV	C311-C310-C39-C38
2	A	369	POV	C23-C24-C25-C26
2	B	371	POV	C213-C214-C215-C216
2	A	323	POV	C37-C38-C39-C310
2	A	328	POV	C22-C21-O21-C2
2	B	374	POV	C22-C21-O21-C2
2	B	344	POV	C22-C21-O21-C2
2	A	415	POV	C311-C310-C39-C38
2	A	317	POV	C24-C25-C26-C27
2	A	323	POV	C211-C212-C213-C214
2	A	322	POV	C32-C31-O31-C3
2	A	384	POV	C25-C26-C27-C28
2	A	332	POV	C212-C213-C214-C215
2	A	344	POV	C212-C213-C214-C215
2	B	385	POV	O32-C31-O31-C3
2	A	321	POV	C211-C212-C213-C214
2	B	311	POV	C214-C215-C216-C217
2	B	362	POV	O21-C21-C22-C23
2	B	356	POV	O21-C21-C22-C23
2	B	321	POV	O31-C31-C32-C33
2	A	357	POV	C27-C28-C29-C210
2	A	354	POV	C1-C2-C3-O31
2	A	327	POV	C212-C213-C214-C215
2	A	303	POV	C36-C37-C38-C39
2	A	394	POV	C37-C38-C39-C310
2	A	328	POV	C39-C310-C311-C312
2	A	414	POV	C312-C313-C314-C315
2	A	376	POV	C22-C23-C24-C25
2	B	312	POV	C211-C212-C213-C214
2	A	383	POV	C212-C213-C214-C215
2	A	318	POV	O21-C21-C22-C23
2	A	389	POV	C35-C36-C37-C38
2	A	311	POV	C312-C313-C314-C315
2	A	327	POV	O32-C31-C32-C33
2	A	352	POV	C29-C210-C211-C212
2	B	330	POV	C27-C28-C29-C210
2	A	329	POV	C27-C28-C29-C210

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Mol	Chain	Res	Type	Atoms
2	A	327	POV	C27-C28-C29-C210
2	B	352	POV	C27-C28-C29-C210
2	A	303	POV	C311-C310-C39-C38
2	A	332	POV	C213-C214-C215-C216
2	B	322	POV	C311-C310-C39-C38
2	B	358	POV	C39-C310-C311-C312
2	A	351	POV	O31-C31-C32-C33
2	A	394	POV	O21-C21-C22-C23
2	B	375	POV	C39-C310-C311-C312
2	B	322	POV	C214-C215-C216-C217
2	B	379	POV	C311-C312-C313-C314
2	A	369	POV	C211-C212-C213-C214
2	B	376	POV	C212-C213-C214-C215
2	B	378	POV	O11-C1-C2-C3
2	A	351	POV	O11-C1-C2-C3
2	B	331	POV	O11-C1-C2-C3
2	B	340	POV	O11-C1-C2-C3
2	B	320	POV	O31-C31-C32-C33
2	A	301	POV	C25-C26-C27-C28
2	A	312	POV	C213-C214-C215-C216
2	A	348	POV	C212-C213-C214-C215
2	B	357	POV	C29-C210-C211-C212
2	A	399	POV	C24-C25-C26-C27
2	A	330	POV	C2-C1-O11-P
2	A	411	POV	C2-C1-O11-P
2	A	344	POV	C26-C27-C28-C29
2	A	313	POV	C211-C212-C213-C214
2	A	386	POV	C313-C314-C315-C316
2	B	358	POV	O21-C2-C3-O31
2	B	311	POV	O21-C2-C3-O31
2	B	366	POV	C33-C34-C35-C36
2	A	336	POV	O21-C21-C22-C23
2	B	380	POV	O21-C21-C22-C23
2	A	364	POV	O21-C21-C22-C23
2	A	382	POV	O31-C31-C32-C33
2	B	370	POV	O21-C21-C22-C23
2	A	410	POV	O21-C21-C22-C23
2	A	385	POV	O21-C21-C22-C23
2	A	366	POV	C32-C31-O31-C3
2	A	397	POV	C32-C31-O31-C3
2	B	359	POV	C27-C28-C29-C210
2	B	367	POV	C29-C210-C211-C212

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Mol	Chain	Res	Type	Atoms
2	B	376	POV	C29-C210-C211-C212
2	B	331	POV	C29-C210-C211-C212
2	A	364	POV	C214-C215-C216-C217
2	B	368	POV	O31-C31-C32-C33
2	B	388	POV	O31-C31-C32-C33
2	A	369	POV	O21-C21-C22-C23
2	B	342	POV	O21-C21-C22-C23
2	B	383	POV	C33-C34-C35-C36
2	A	415	POV	C1-O11-P-O12
2	A	358	POV	C11-O12-P-O11
2	A	416	POV	C311-C312-C313-C314
2	A	329	POV	O31-C31-C32-C33
2	B	352	POV	O31-C31-C32-C33
2	A	415	POV	O21-C21-C22-C23
2	A	318	POV	O31-C31-C32-C33
2	A	411	POV	O21-C21-C22-C23
2	B	355	POV	O31-C31-C32-C33
2	A	317	POV	C33-C34-C35-C36
2	A	331	POV	C210-C211-C212-C213
2	B	367	POV	C34-C35-C36-C37
2	A	343	POV	C24-C25-C26-C27
2	A	304	POV	C212-C213-C214-C215
2	A	343	POV	C31-C32-C33-C34
2	A	366	POV	C215-C216-C217-C218
2	A	314	POV	C212-C213-C214-C215
2	A	333	POV	O31-C31-C32-C33
2	A	322	POV	O31-C31-C32-C33
2	A	371	POV	O21-C21-C22-C23
2	B	325	POV	C27-C28-C29-C210
2	A	347	POV	C29-C210-C211-C212
2	A	390	POV	C29-C210-C211-C212
2	A	331	POV	C27-C28-C29-C210
2	B	387	POV	C27-C28-C29-C210
2	A	360	POV	C3-C2-O21-C21
2	B	384	POV	C1-C2-O21-C21
2	B	302	POV	C3-C2-O21-C21
2	B	348	POV	C1-C2-O21-C21
2	B	310	POV	C1-C2-O21-C21
2	A	395	POV	C1-C2-O21-C21
2	B	342	POV	C3-C2-O21-C21
2	B	366	POV	C214-C215-C216-C217
2	B	383	POV	C310-C311-C312-C313

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Mol	Chain	Res	Type	Atoms
2	A	340	POV	C35-C36-C37-C38
2	A	381	POV	O31-C31-C32-C33
2	A	325	POV	O21-C21-C22-C23
2	A	399	POV	O21-C21-C22-C23
2	B	376	POV	O31-C31-C32-C33
2	B	355	POV	O21-C21-C22-C23
2	A	349	POV	C32-C33-C34-C35
2	A	322	POV	O21-C21-C22-C23
2	B	373	POV	O21-C21-C22-C23
2	B	360	POV	O31-C31-C32-C33
2	B	341	POV	O31-C31-C32-C33
2	B	389	POV	O21-C21-C22-C23
2	A	312	POV	O21-C21-C22-C23
2	A	348	POV	O21-C21-C22-C23
2	B	374	POV	O21-C21-C22-C23
2	A	313	POV	O21-C21-C22-C23
2	A	396	POV	O31-C31-C32-C33
2	A	356	POV	O21-C21-C22-C23
2	B	358	POV	O31-C31-C32-C33
2	B	338	POV	O21-C21-C22-C23
2	B	338	POV	O31-C31-C32-C33
2	A	400	POV	C39-C310-C311-C312
2	B	316	POV	C311-C310-C39-C38
2	A	367	POV	C29-C210-C211-C212
2	A	321	POV	C27-C28-C29-C210
2	B	374	POV	C29-C210-C211-C212
2	A	350	POV	C27-C28-C29-C210
2	A	305	POV	C29-C210-C211-C212
2	A	349	POV	C29-C210-C211-C212
2	B	358	POV	C27-C28-C29-C210
2	B	311	POV	C29-C210-C211-C212
2	A	318	POV	C312-C313-C314-C315
2	B	305	POV	C36-C37-C38-C39
2	A	355	POV	C1-C2-C3-O31
2	B	353	POV	C1-C2-C3-O31
2	B	305	POV	C1-C2-C3-O31
2	A	371	POV	C1-C2-C3-O31
2	A	317	POV	C22-C23-C24-C25
2	B	356	POV	O22-C21-C22-C23
2	B	378	POV	C311-C310-C39-C38
2	B	320	POV	C39-C310-C311-C312
2	B	378	POV	O11-C1-C2-O21

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Mol	Chain	Res	Type	Atoms
2	A	346	POV	O31-C31-C32-C33
2	B	327	POV	O21-C21-C22-C23
2	B	304	POV	O31-C31-C32-C33
2	B	350	POV	C11-C12-N-C13
2	B	348	POV	C34-C35-C36-C37
2	B	389	POV	C213-C214-C215-C216
2	B	374	POV	C34-C35-C36-C37
2	B	358	POV	C311-C312-C313-C314
2	A	393	POV	O21-C21-C22-C23
2	A	337	POV	O31-C31-C32-C33
2	B	346	POV	C313-C314-C315-C316
2	A	353	POV	C27-C28-C29-C210
2	A	352	POV	C27-C28-C29-C210
2	B	365	POV	C29-C210-C211-C212
2	A	383	POV	C29-C210-C211-C212
2	A	409	POV	C29-C210-C211-C212
2	A	348	POV	C27-C28-C29-C210
2	B	307	POV	C29-C210-C211-C212
2	A	396	POV	C29-C210-C211-C212
2	A	339	POV	C27-C28-C29-C210
2	B	317	POV	C214-C215-C216-C217
2	A	338	POV	O21-C21-C22-C23
2	A	384	POV	O31-C31-C32-C33
2	B	387	POV	O31-C31-C32-C33
2	B	353	POV	C34-C35-C36-C37
2	B	341	POV	O11-C1-C2-C3
2	A	415	POV	O11-C1-C2-C3
2	B	310	POV	C310-C311-C312-C313
2	A	374	POV	C34-C35-C36-C37
2	B	350	POV	O31-C31-C32-C33
2	B	361	POV	O31-C31-C32-C33
2	B	381	POV	O31-C31-C32-C33
2	B	365	POV	O21-C21-C22-C23
2	B	302	POV	O31-C31-C32-C33
2	B	362	POV	O31-C31-C32-C33
2	A	303	POV	O31-C31-C32-C33
2	A	410	POV	O31-C31-C32-C33
2	A	304	POV	C35-C36-C37-C38
2	A	354	POV	O21-C2-C3-O31
2	B	365	POV	O21-C2-C3-O31
2	B	351	POV	O21-C2-C3-O31
2	B	334	POV	O21-C2-C3-O31

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	362	POV	C310-C311-C312-C313
2	A	371	POV	C39-C310-C311-C312
2	A	399	POV	C27-C28-C29-C210
2	B	370	POV	C27-C28-C29-C210
2	A	319	POV	C27-C28-C29-C210
2	A	398	POV	C37-C38-C39-C310
2	A	306	POV	O32-C31-O31-C3
2	B	367	POV	O31-C31-C32-C33
2	A	400	POV	O31-C31-C32-C33
2	A	338	POV	O31-C31-C32-C33
2	A	380	POV	O31-C31-C32-C33
2	B	314	POV	O21-C21-C22-C23
2	A	407	POV	O31-C31-C32-C33
2	B	346	POV	O31-C31-C32-C33
2	A	395	POV	O21-C21-C22-C23
2	A	385	POV	O31-C31-C32-C33
2	B	335	POV	O31-C31-C32-C33
2	B	318	POV	C211-C212-C213-C214
2	B	350	POV	C11-C12-N-C14
2	A	363	POV	C11-C12-N-C15
2	A	349	POV	C11-C12-N-C13
2	A	349	POV	C11-C12-N-C14
2	B	377	POV	C22-C21-O21-C2
2	A	361	POV	C22-C21-O21-C2
2	B	332	POV	O31-C31-C32-C33
2	B	334	POV	O31-C31-C32-C33
2	A	408	POV	C39-C310-C311-C312
3	A	418	CLR	C23-C24-C25-C27
2	B	369	POV	O22-C21-O21-C2
2	B	389	POV	C27-C28-C29-C210
2	A	350	POV	C29-C210-C211-C212
2	B	355	POV	C29-C210-C211-C212
2	A	354	POV	O31-C31-C32-C33
2	A	307	POV	O31-C31-C32-C33
2	B	367	POV	O21-C21-C22-C23
2	B	330	POV	O31-C31-C32-C33
2	A	384	POV	O21-C21-C22-C23
2	B	323	POV	O21-C21-C22-C23
2	A	396	POV	O21-C21-C22-C23
2	B	349	POV	C21-C22-C23-C24
2	B	302	POV	C2-C3-O31-C31
2	B	330	POV	C34-C35-C36-C37

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Mol	Chain	Res	Type	Atoms
2	A	311	POV	C36-C37-C38-C39
2	A	331	POV	C215-C216-C217-C218
2	B	374	POV	C215-C216-C217-C218
2	A	413	POV	O21-C21-C22-C23
2	A	371	POV	C32-C33-C34-C35
2	A	312	POV	C32-C33-C34-C35
2	B	354	POV	C22-C21-O21-C2
2	B	345	POV	C22-C21-O21-C2
2	B	371	POV	O32-C31-C32-C33
2	A	308	POV	O22-C21-C22-C23
2	A	340	POV	O32-C31-C32-C33
2	B	370	POV	O32-C31-C32-C33
2	A	358	POV	O22-C21-C22-C23
2	B	373	POV	C310-C311-C312-C313
2	A	393	POV	O31-C31-C32-C33
2	A	347	POV	O31-C31-C32-C33
2	A	336	POV	O31-C31-C32-C33
2	B	375	POV	O31-C31-C32-C33
2	A	392	POV	O21-C21-C22-C23
2	A	324	POV	O21-C21-C22-C23
2	A	334	POV	C24-C25-C26-C27
2	B	341	POV	C35-C36-C37-C38
2	B	320	POV	C36-C37-C38-C39
2	A	376	POV	C33-C34-C35-C36
2	B	361	POV	C29-C210-C211-C212
2	A	409	POV	C26-C27-C28-C29
2	A	333	POV	C212-C213-C214-C215
2	A	386	POV	C213-C214-C215-C216
2	B	311	POV	C39-C310-C311-C312
2	A	353	POV	C2-C3-O31-C31
2	B	354	POV	O22-C21-C22-C23
2	B	303	POV	O22-C21-C22-C23
2	A	353	POV	C212-C213-C214-C215
2	B	330	POV	O21-C21-C22-C23
2	A	381	POV	C39-C310-C311-C312
2	A	341	POV	C312-C313-C314-C315
2	A	316	POV	C36-C37-C38-C39
2	B	386	POV	O32-C31-C32-C33
2	B	360	POV	O22-C21-C22-C23
2	B	370	POV	O22-C21-C22-C23
2	A	361	POV	O32-C31-C32-C33
2	B	331	POV	O22-C21-C22-C23

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Mol	Chain	Res	Type	Atoms
2	A	393	POV	O11-C1-C2-O21
2	B	313	POV	C34-C35-C36-C37
2	A	382	POV	C35-C36-C37-C38
2	A	308	POV	C34-C35-C36-C37
2	B	379	POV	C35-C36-C37-C38
2	B	309	POV	C23-C24-C25-C26
2	B	304	POV	C211-C212-C213-C214
2	A	312	POV	O22-C21-C22-C23
2	A	399	POV	O22-C21-C22-C23
2	A	387	POV	O22-C21-C22-C23
2	A	307	POV	O21-C21-C22-C23
2	A	386	POV	O31-C31-C32-C33
2	A	408	POV	C312-C313-C314-C315
2	B	377	POV	C214-C215-C216-C217
2	A	364	POV	C29-C210-C211-C212
2	A	392	POV	C27-C28-C29-C210
2	A	358	POV	C29-C210-C211-C212
2	B	313	POV	C23-C24-C25-C26
2	A	328	POV	O22-C21-C22-C23
2	A	301	POV	O32-C31-C32-C33
2	A	333	POV	O22-C21-C22-C23
2	A	334	POV	O22-C21-C22-C23
2	A	329	POV	O22-C21-C22-C23
2	A	363	POV	O22-C21-C22-C23
2	B	314	POV	O22-C21-C22-C23
2	B	344	POV	O22-C21-C22-C23
2	B	346	POV	O32-C31-C32-C33
2	B	330	POV	C23-C24-C25-C26
2	B	357	POV	C37-C38-C39-C310
2	A	320	POV	C1-C2-C3-O31
2	A	398	POV	C1-C2-C3-O31
2	B	374	POV	C1-C2-C3-O31
2	A	378	POV	C1-C2-C3-O31
2	B	351	POV	C1-C2-C3-O31
2	B	334	POV	C1-C2-C3-O31
2	A	352	POV	O31-C31-C32-C33
2	A	360	POV	O21-C21-C22-C23
2	A	395	POV	O31-C31-C32-C33
2	B	330	POV	C24-C25-C26-C27
2	A	351	POV	C32-C33-C34-C35
2	A	319	POV	C213-C214-C215-C216
2	A	396	POV	C26-C27-C28-C29

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	364	POV	C11-O12-P-O11
2	A	311	POV	C214-C215-C216-C217
2	A	398	POV	O22-C21-C22-C23
2	B	332	POV	C213-C214-C215-C216
2	A	384	POV	C22-C23-C24-C25
2	A	382	POV	C32-C33-C34-C35
2	A	386	POV	C211-C212-C213-C214
2	A	335	POV	O21-C21-C22-C23
2	B	353	POV	O31-C31-C32-C33
2	B	340	POV	O31-C31-C32-C33
2	A	368	POV	C2-C1-O11-P
2	B	347	POV	C2-C1-O11-P
2	A	335	POV	C211-C212-C213-C214
2	B	378	POV	O22-C21-C22-C23
2	A	302	POV	O32-C31-C32-C33
2	A	355	POV	O22-C21-C22-C23
2	B	365	POV	C36-C37-C38-C39
2	A	368	POV	C11-O12-P-O14
2	B	359	POV	C11-O12-P-O14
2	B	330	POV	C1-O11-P-O14
2	A	346	POV	C11-O12-P-O14
2	B	379	POV	C11-O12-P-O14
2	A	322	POV	C11-O12-P-O14
2	A	360	POV	C1-O11-P-O13
2	B	373	POV	C1-O11-P-O14
2	A	359	POV	C11-O12-P-O14
2	A	302	POV	C1-O11-P-O14
2	B	302	POV	C1-O11-P-O14
2	B	329	POV	C1-O11-P-O14
2	B	341	POV	C11-O12-P-O14
2	B	362	POV	C1-O11-P-O14
2	A	412	POV	C1-O11-P-O14
2	A	320	POV	C11-O12-P-O14
2	A	414	POV	C11-O12-P-O14
2	B	320	POV	C11-O12-P-O14
2	A	325	POV	C1-O11-P-O14
2	B	389	POV	C1-O11-P-O14
2	A	348	POV	C1-O11-P-O14
2	B	352	POV	C11-O12-P-O14
2	B	375	POV	C11-O12-P-O14
2	A	363	POV	C11-C12-N-C13
2	A	308	POV	C11-O12-P-O14

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	A	303	POV	C11-O12-P-O14
2	B	303	POV	C11-O12-P-O14
2	A	376	POV	C1-O11-P-O14
2	A	380	POV	C1-O11-P-O13
2	B	327	POV	C11-O12-P-O14
2	B	364	POV	C11-O12-P-O14
2	B	314	POV	C11-O12-P-O14
2	B	309	POV	C1-O11-P-O14
2	A	407	POV	C11-O12-P-O14
2	B	376	POV	C11-O12-P-O13
2	B	323	POV	C11-O12-P-O14
2	B	368	POV	C1-O11-P-O14
2	B	310	POV	C11-O12-P-O14
2	A	396	POV	C11-O12-P-O14
2	B	388	POV	C11-O12-P-O14
2	B	369	POV	C1-O11-P-O14
2	B	339	POV	C11-O12-P-O14
2	B	344	POV	C11-O12-P-O14
2	A	304	POV	C11-O12-P-O14
2	A	356	POV	C11-O12-P-O13
2	A	339	POV	C1-O11-P-O14
2	A	339	POV	C11-O12-P-O13
2	B	331	POV	C11-O12-P-O14
2	A	358	POV	C11-O12-P-O14
2	A	365	POV	C1-O11-P-O14
2	A	365	POV	C11-O12-P-O14
2	B	308	POV	C11-O12-P-O14
2	B	316	POV	C1-O11-P-O14
2	B	358	POV	C1-O11-P-O14
2	B	358	POV	C11-O12-P-O14
2	B	338	POV	C1-O11-P-O14
2	A	370	POV	C34-C35-C36-C37
2	A	408	POV	O32-C31-C32-C33
2	A	336	POV	O22-C21-C22-C23
2	B	327	POV	O32-C31-C32-C33
2	A	361	POV	O22-C21-C22-C23
2	A	410	POV	O22-C21-C22-C23
2	B	339	POV	O22-C21-C22-C23
2	A	411	POV	O22-C21-C22-C23
2	A	369	POV	O32-C31-C32-C33
2	B	383	POV	O32-C31-C32-C33
2	B	346	POV	O32-C31-O31-C3

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Mol	Chain	Res	Type	Atoms
2	B	374	POV	C310-C311-C312-C313
2	B	349	POV	C310-C311-C312-C313
2	A	378	POV	C39-C310-C311-C312
2	B	310	POV	C311-C312-C313-C314
2	B	301	POV	O22-C21-C22-C23
2	A	377	POV	O22-C21-C22-C23
2	A	347	POV	O32-C31-C32-C33
2	A	325	POV	O32-C31-C32-C33
2	B	366	POV	O32-C31-C32-C33
2	A	331	POV	C212-C213-C214-C215
2	B	352	POV	C311-C312-C313-C314
2	B	302	POV	C26-C27-C28-C29
2	A	348	POV	C210-C211-C212-C213
2	B	343	POV	C210-C211-C212-C213
2	A	333	POV	C36-C37-C38-C39
2	B	347	POV	C34-C35-C36-C37
2	B	346	POV	C34-C35-C36-C37
2	A	377	POV	C27-C28-C29-C210
2	A	334	POV	C27-C28-C29-C210
2	B	327	POV	C27-C28-C29-C210
2	B	328	POV	C29-C210-C211-C212
2	A	343	POV	O21-C21-C22-C23
2	A	394	POV	O31-C31-C32-C33
2	A	384	POV	C23-C24-C25-C26
2	A	362	POV	C2-C3-O31-C31
2	A	376	POV	O32-C31-C32-C33
2	A	318	POV	C2-C3-O31-C31
2	A	347	POV	C39-C310-C311-C312
2	B	334	POV	C24-C25-C26-C27
2	B	371	POV	C12-C11-O12-P
2	A	368	POV	C12-C11-O12-P
2	A	306	POV	C12-C11-O12-P
2	B	350	POV	C12-C11-O12-P
2	A	354	POV	C3-C2-O21-C21
2	B	330	POV	C12-C11-O12-P
2	A	341	POV	C12-C11-O12-P
2	B	347	POV	C1-C2-O21-C21
2	A	400	POV	C12-C11-O12-P
2	B	313	POV	C12-C11-O12-P
2	B	384	POV	C12-C11-O12-P
2	A	372	POV	C12-C11-O12-P
2	B	380	POV	C1-C2-O21-C21

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	B	380	POV	C3-C2-O21-C21
2	B	380	POV	C12-C11-O12-P
2	A	359	POV	C3-C2-O21-C21
2	B	378	POV	C3-C2-O21-C21
2	A	302	POV	C1-C2-O21-C21
2	B	302	POV	C12-C11-O12-P
2	A	329	POV	C12-C11-O12-P
2	A	338	POV	C12-C11-O12-P
2	B	307	POV	C12-C11-O12-P
2	A	355	POV	C3-C2-O21-C21
2	B	374	POV	C3-C2-O21-C21
2	A	399	POV	C12-C11-O12-P
2	A	382	POV	C12-C11-O12-P
2	A	340	POV	C3-C2-O21-C21
2	B	327	POV	C3-C2-O21-C21
2	A	407	POV	C1-C2-O21-C21
2	B	310	POV	C12-C11-O12-P
2	B	337	POV	C12-C11-O12-P
2	A	361	POV	C12-C11-O12-P
2	A	349	POV	C12-C11-O12-P
2	A	339	POV	C12-C11-O12-P
2	B	331	POV	C12-C11-O12-P
2	A	319	POV	C1-C2-O21-C21
2	A	365	POV	C3-C2-O21-C21
2	B	334	POV	C12-C11-O12-P
2	B	358	POV	C12-C11-O12-P
2	A	337	POV	C3-C2-O21-C21
2	B	311	POV	C12-C11-O12-P
2	A	307	POV	O32-C31-C32-C33
2	A	384	POV	O32-C31-C32-C33
2	A	319	POV	O22-C21-C22-C23
2	A	332	POV	C37-C38-C39-C310
2	A	365	POV	C311-C310-C39-C38
2	A	416	POV	O31-C31-C32-C33
2	A	329	POV	O21-C21-C22-C23
2	B	318	POV	O21-C21-C22-C23
2	B	369	POV	O21-C21-C22-C23
2	A	383	POV	C33-C34-C35-C36
2	A	366	POV	C213-C214-C215-C216
2	B	308	POV	C25-C26-C27-C28
2	B	323	POV	C2-C3-O31-C31
2	A	409	POV	O32-C31-C32-C33

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
2	B	357	POV	O32-C31-C32-C33
2	B	350	POV	C11-C12-N-C15
2	A	336	POV	C11-C12-N-C13
2	A	336	POV	C11-C12-N-C14
2	A	359	POV	C11-C12-N-C13
2	B	333	POV	C27-C28-C29-C210
2	B	370	POV	C29-C210-C211-C212
2	A	368	POV	O21-C21-C22-C23
2	B	386	POV	O31-C31-C32-C33
2	A	341	POV	O21-C21-C22-C23
2	B	326	POV	O31-C31-C32-C33
2	A	387	POV	O21-C21-C22-C23
2	B	341	POV	C33-C34-C35-C36
2	A	324	POV	C34-C35-C36-C37
2	B	326	POV	C2-C3-O31-C31
2	B	312	POV	C310-C311-C312-C313
2	A	350	POV	C310-C311-C312-C313
2	B	374	POV	C39-C310-C311-C312
2	A	409	POV	O31-C31-C32-C33
2	A	363	POV	O21-C21-C22-C23
2	A	308	POV	O21-C21-C22-C23
2	A	349	POV	O31-C31-C32-C33
2	A	356	POV	O31-C31-C32-C33
2	A	358	POV	O21-C21-C22-C23
2	A	397	POV	O31-C31-C32-C33
2	B	319	POV	C211-C212-C213-C214
2	A	397	POV	O22-C21-C22-C23
2	B	384	POV	C34-C35-C36-C37
2	A	332	POV	C2-C1-O11-P
2	A	374	POV	C2-C1-O11-P
2	A	372	POV	C25-C26-C27-C28
2	A	366	POV	C310-C311-C312-C313
2	B	364	POV	C25-C26-C27-C28
2	B	372	POV	C34-C35-C36-C37
2	A	396	POV	O22-C21-C22-C23
2	A	385	POV	C33-C34-C35-C36
2	A	319	POV	C35-C36-C37-C38
2	B	319	POV	O31-C31-C32-C33
2	B	317	POV	O31-C31-C32-C33
2	A	362	POV	O21-C21-C22-C23
2	B	378	POV	O21-C21-C22-C23
2	B	360	POV	O21-C21-C22-C23

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Mol	Chain	Res	Type	Atoms
2	A	302	POV	O31-C31-C32-C33
2	A	364	POV	O31-C31-C32-C33
2	B	382	POV	O31-C31-C32-C33
2	A	325	POV	C212-C213-C214-C215
2	B	331	POV	C37-C38-C39-C310
2	A	311	POV	O32-C31-C32-C33
2	A	303	POV	O32-C31-C32-C33
2	B	323	POV	O22-C21-C22-C23
2	B	342	POV	O22-C21-C22-C23
2	B	304	POV	O32-C31-C32-C33
2	B	373	POV	C215-C216-C217-C218
2	B	376	POV	C25-C26-C27-C28
2	B	350	POV	O21-C21-C22-C23
2	B	315	POV	O21-C21-C22-C23
2	A	373	POV	O31-C31-C32-C33
2	A	392	POV	C32-C33-C34-C35
2	A	408	POV	C213-C214-C215-C216
2	B	318	POV	O22-C21-C22-C23
2	A	411	POV	O32-C31-C32-C33
2	A	356	POV	O32-C31-C32-C33
2	A	326	POV	O22-C21-C22-C23
2	A	391	POV	O32-C31-C32-C33
2	A	382	POV	C36-C37-C38-C39
2	A	376	POV	C34-C35-C36-C37
2	A	394	POV	C34-C35-C36-C37
2	B	339	POV	O21-C21-C22-C23
2	A	354	POV	O32-C31-C32-C33
2	B	312	POV	O32-C31-C32-C33
2	B	324	POV	O22-C21-C22-C23
2	A	320	POV	O32-C31-C32-C33
2	A	359	POV	C11-C12-N-C14
2	B	367	POV	C25-C26-C27-C28
2	A	350	POV	C32-C33-C34-C35
2	B	346	POV	C213-C214-C215-C216
2	A	320	POV	C29-C210-C211-C212
2	A	344	POV	C29-C210-C211-C212
3	B	399	CLR	C22-C23-C24-C25
2	A	389	POV	C37-C38-C39-C310
2	B	320	POV	C32-C33-C34-C35
2	B	322	POV	O32-C31-C32-C33
2	A	347	POV	C311-C310-C39-C38
2	B	370	POV	C25-C26-C27-C28

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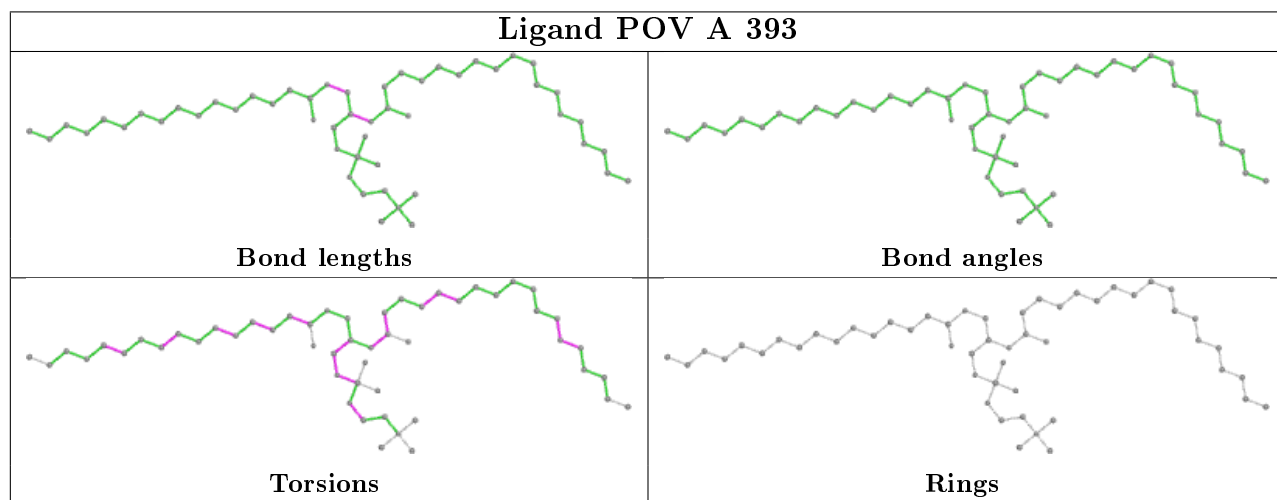
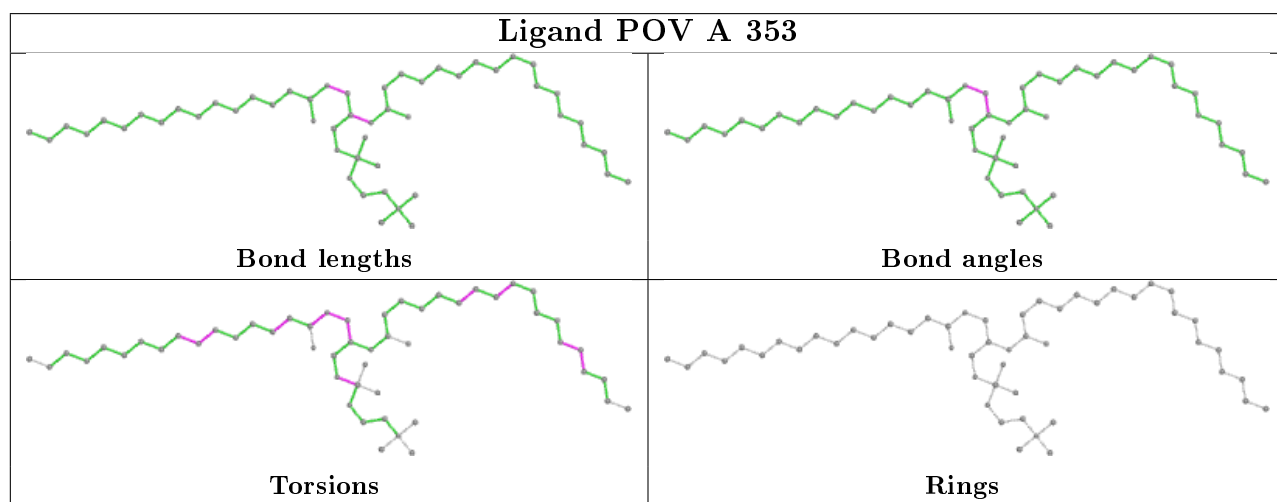
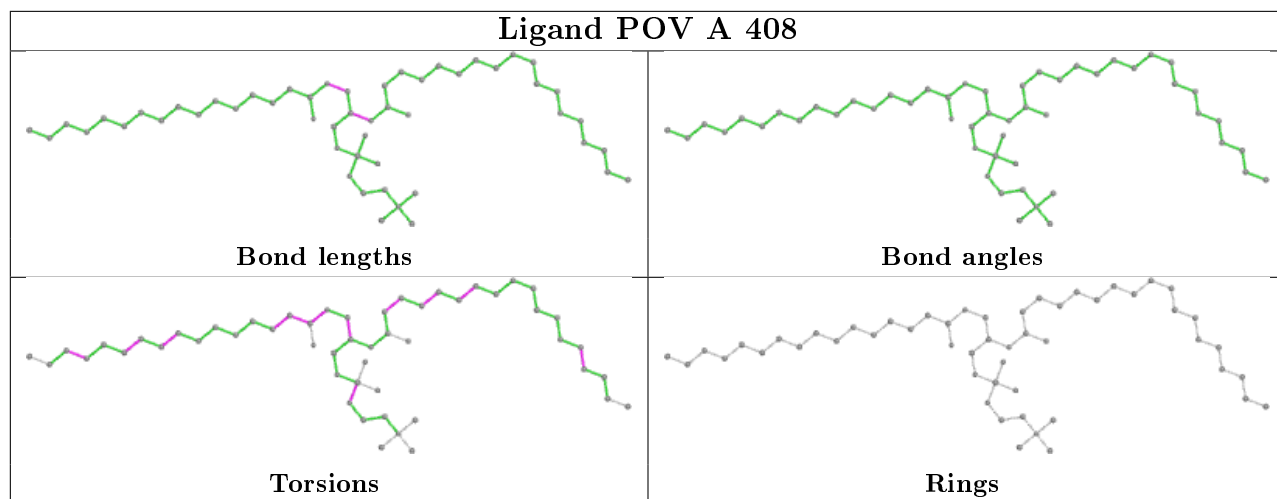
Mol	Chain	Res	Type	Atoms
2	B	385	POV	O31-C31-C32-C33
2	A	358	POV	O31-C31-C32-C33

There are no ring outliers.

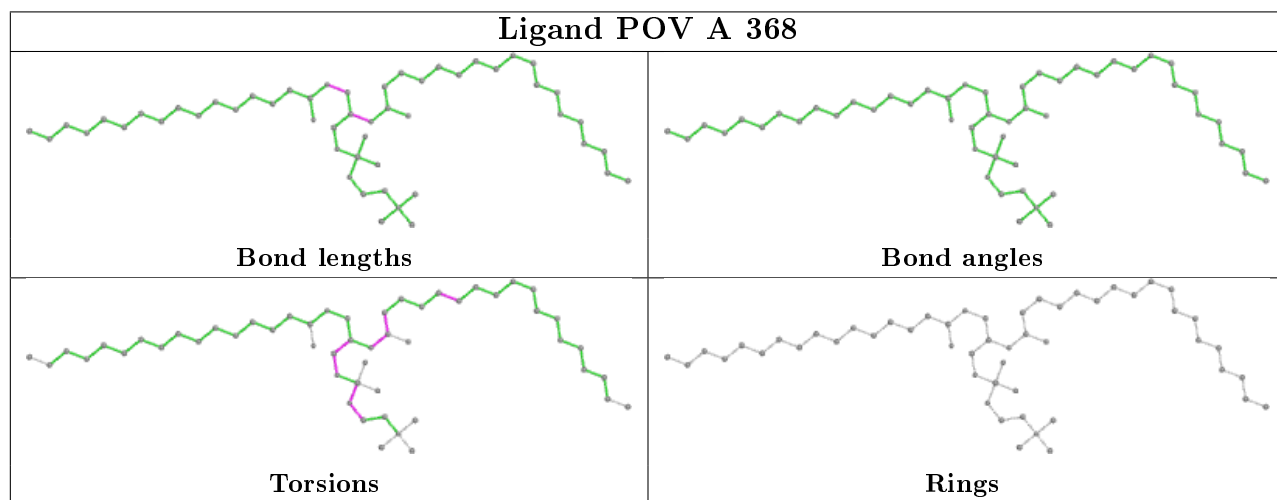
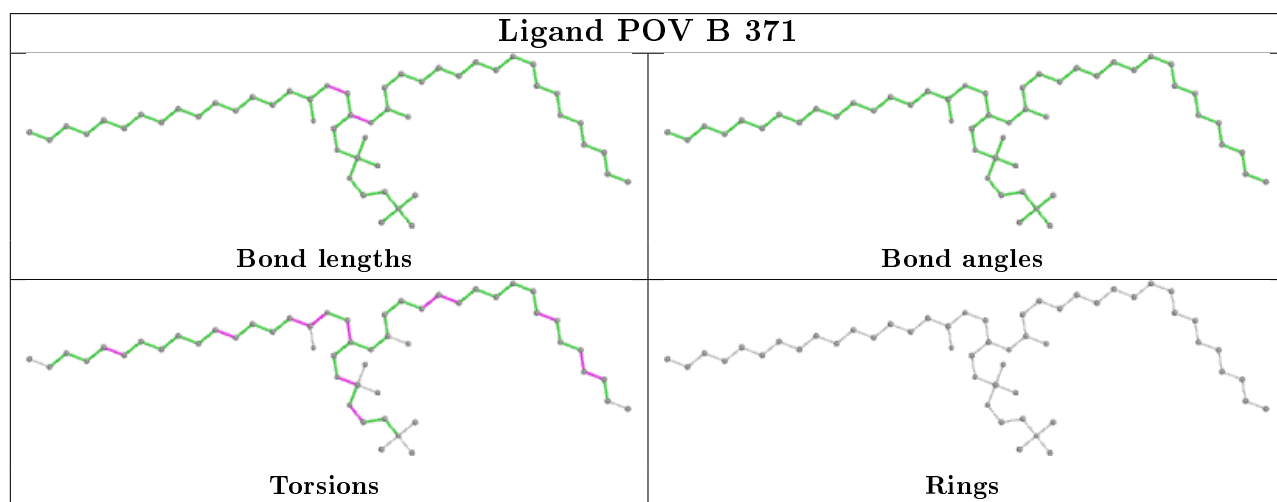
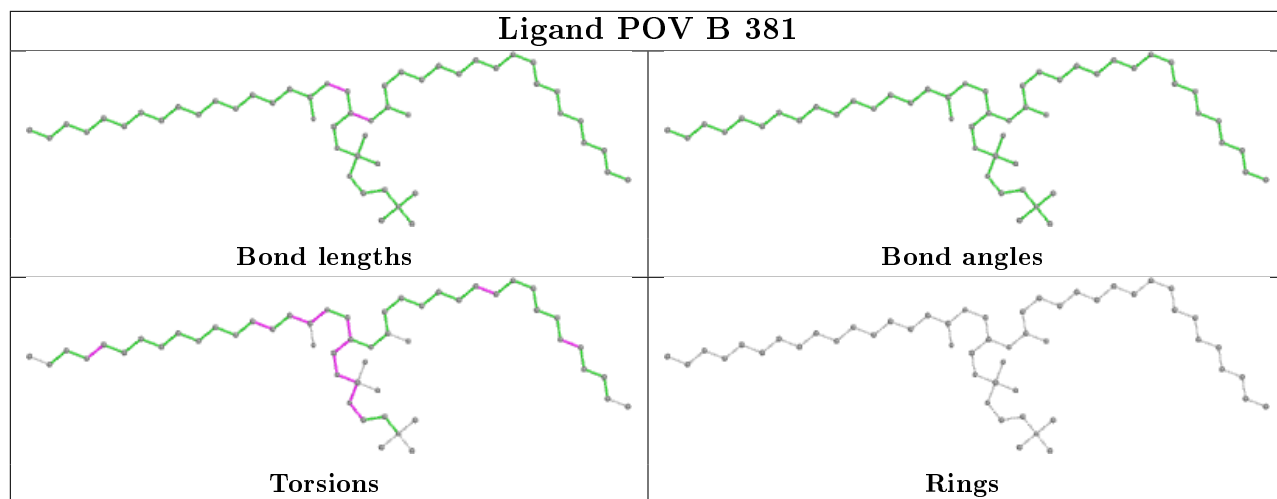
18 monomers are involved in 17 short contacts:

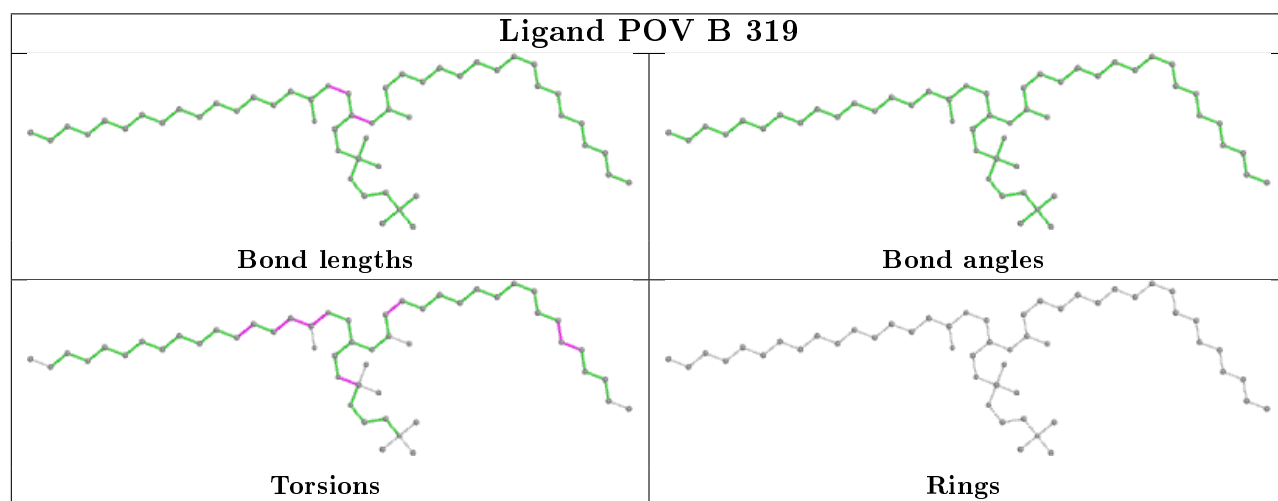
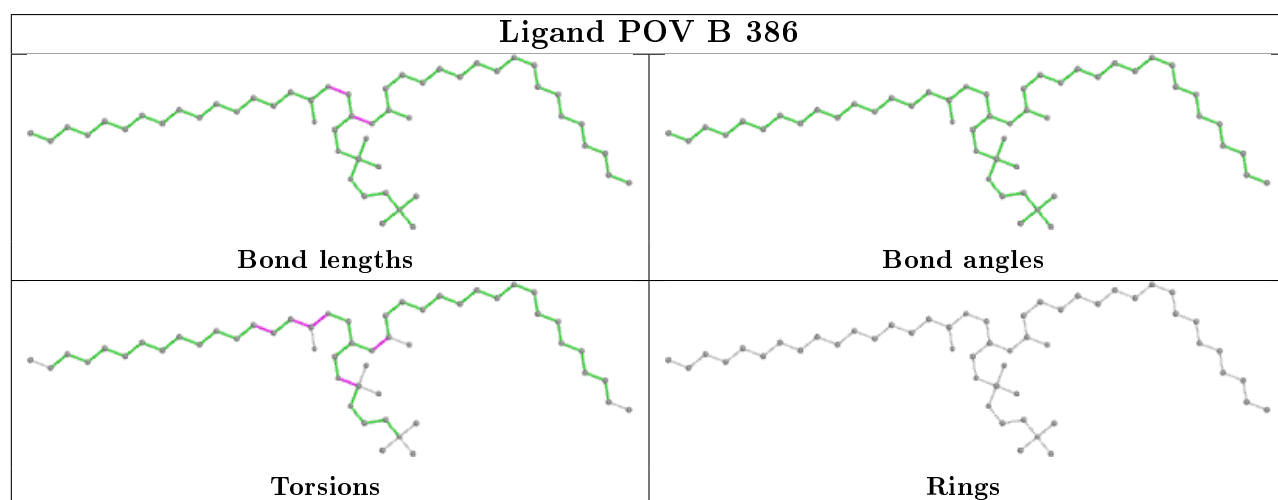
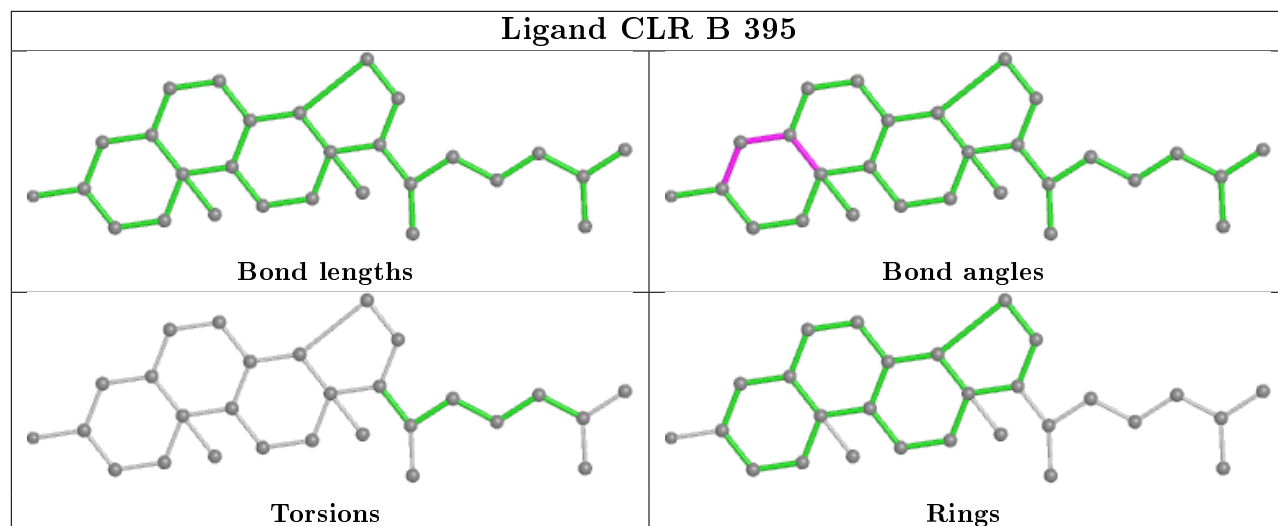
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	311	POV	1	0
2	B	313	POV	1	0
2	B	373	POV	1	0
2	B	302	POV	1	0
2	A	412	POV	1	0
3	A	402	CLR	2	0
3	B	393	CLR	1	0
2	B	303	POV	1	0
2	B	329	POV	1	0
2	B	314	POV	1	0
2	A	318	POV	1	0
2	B	349	POV	1	0
2	A	396	POV	1	0
2	B	388	POV	1	0
2	B	339	POV	1	0
2	A	357	POV	1	0
2	B	331	POV	2	0
2	B	334	POV	1	0

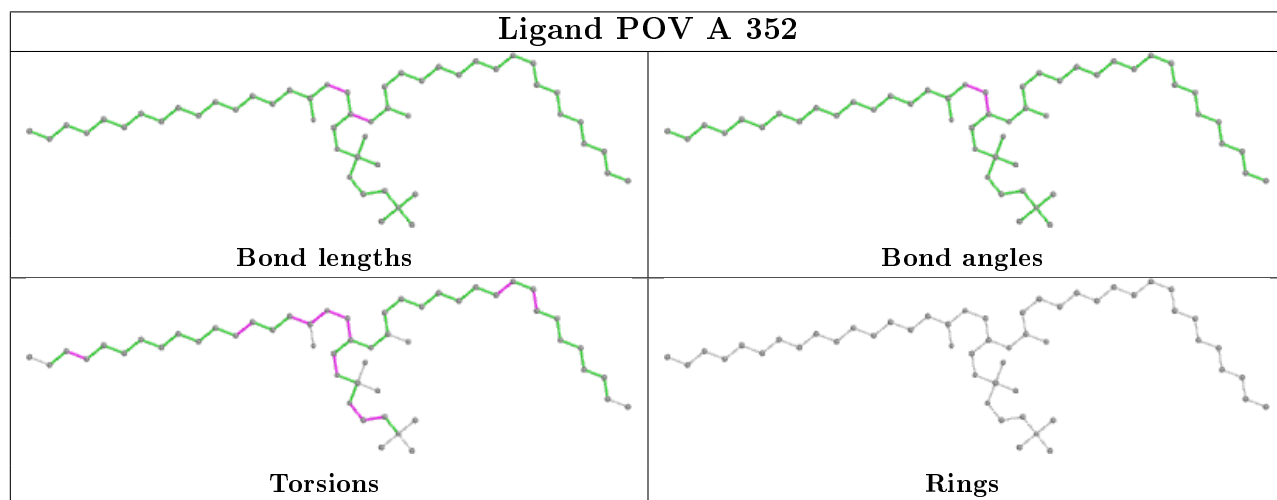
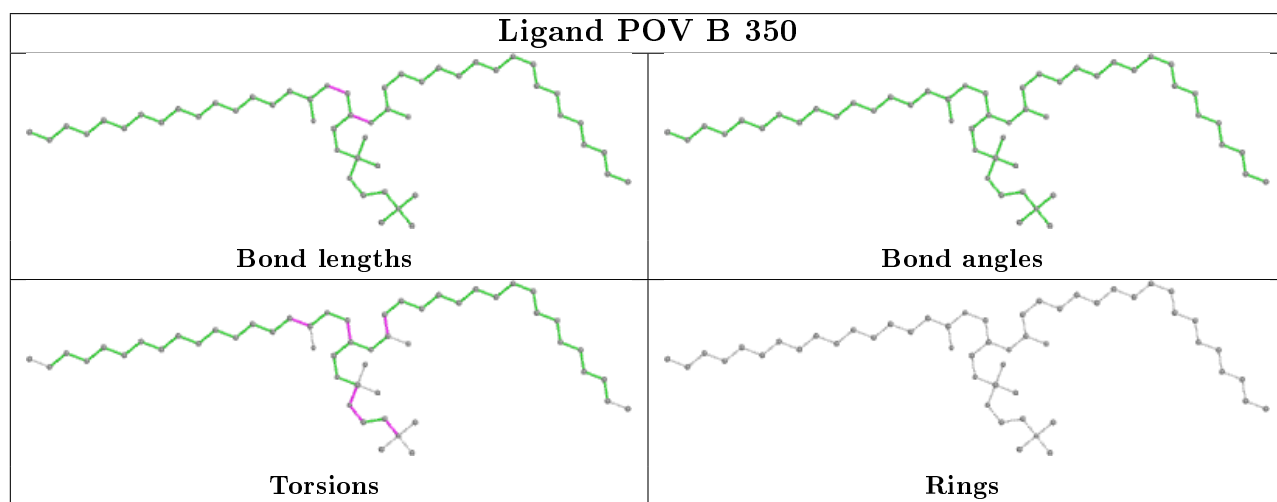
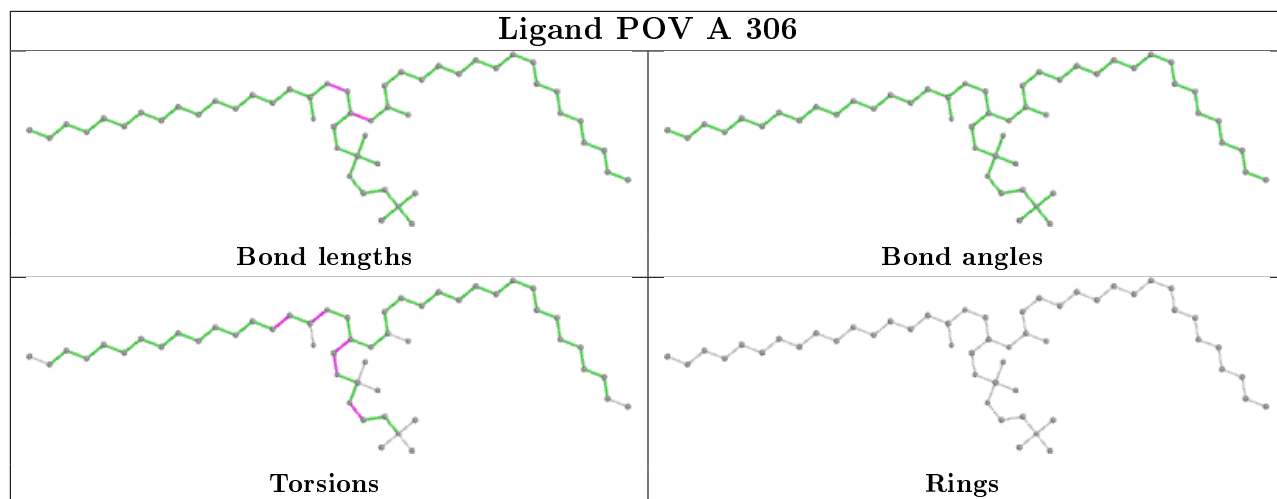
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

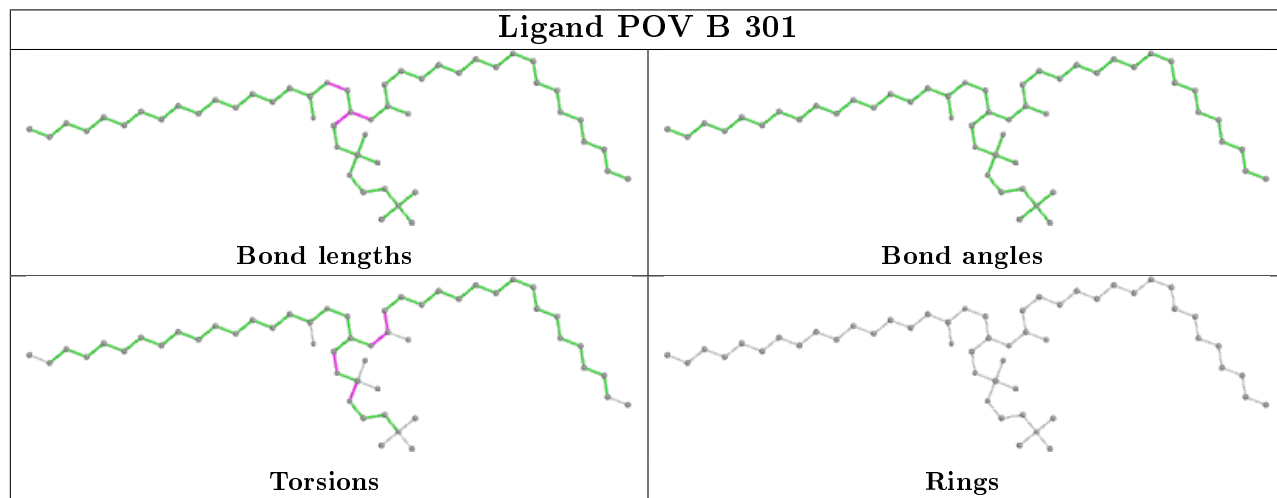
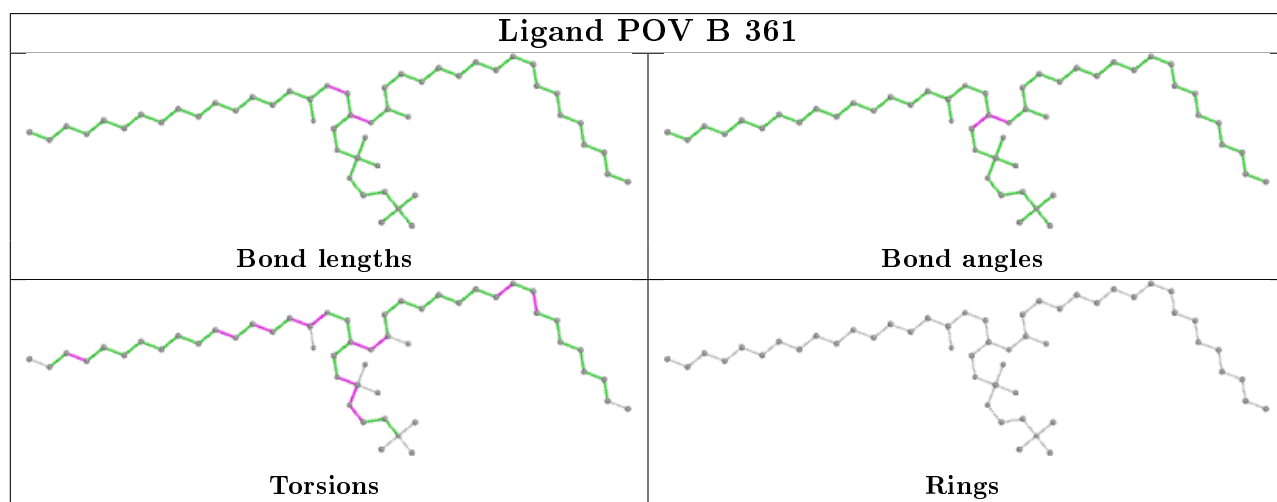
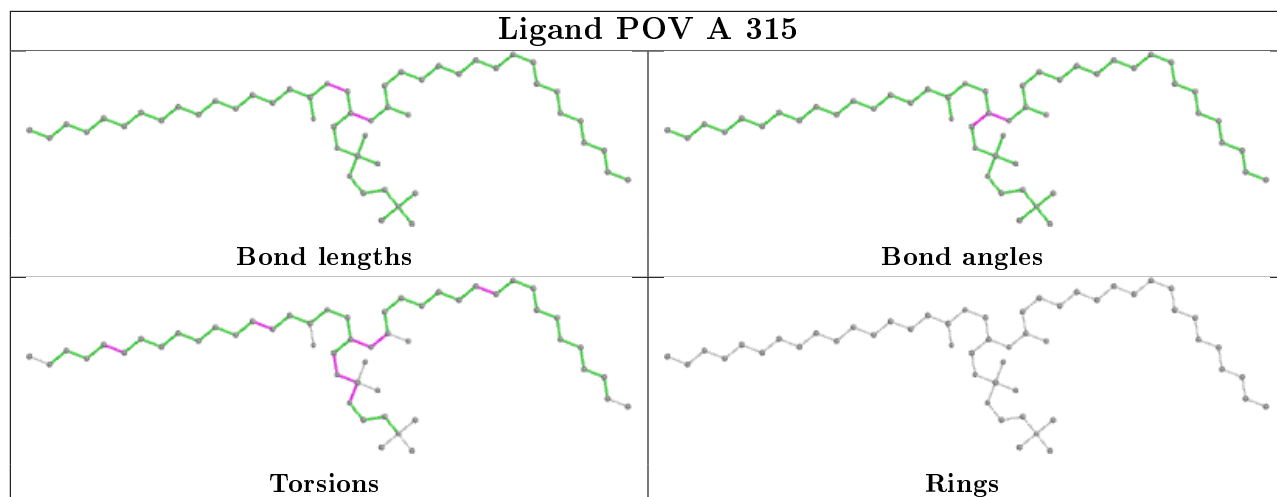


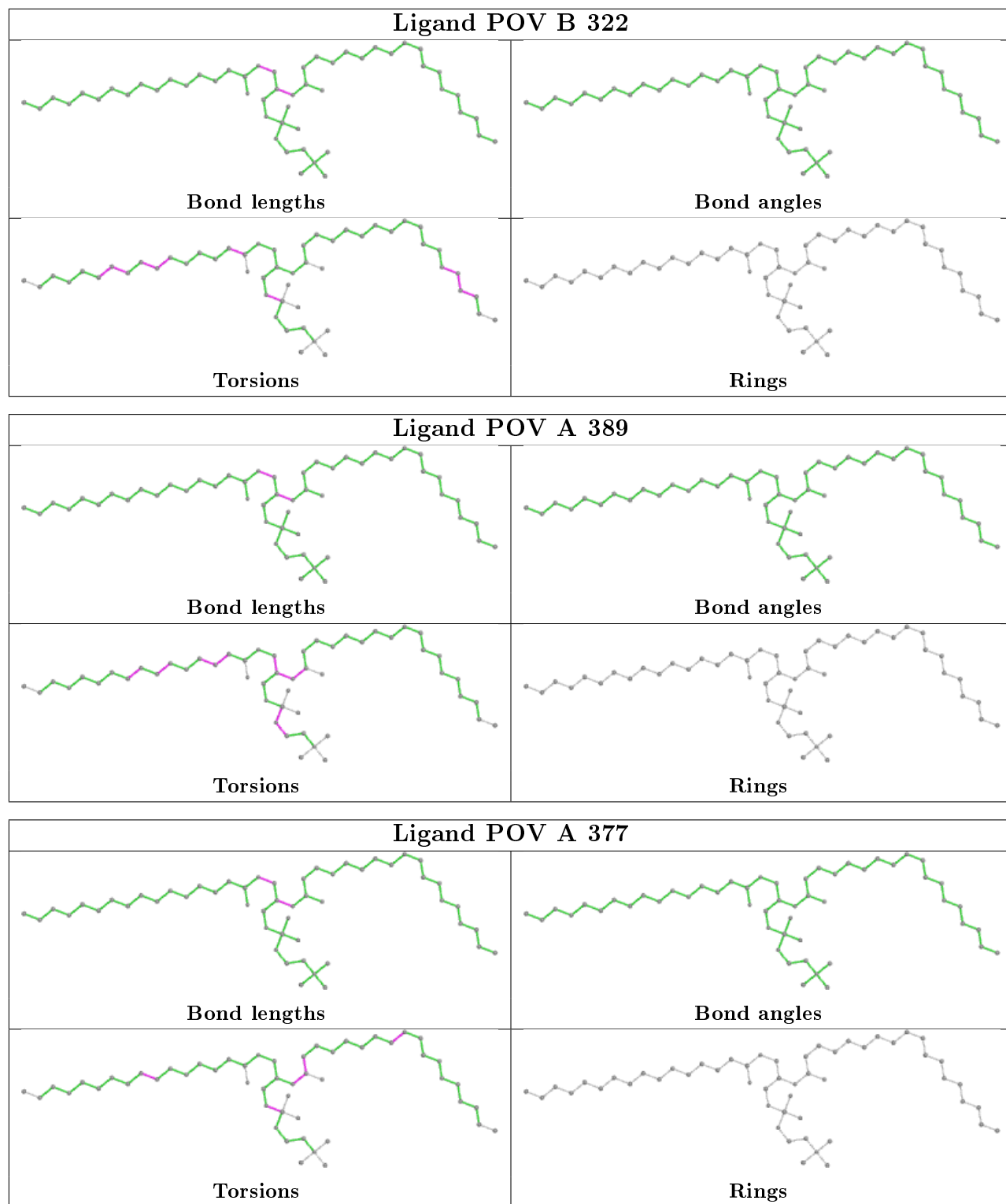


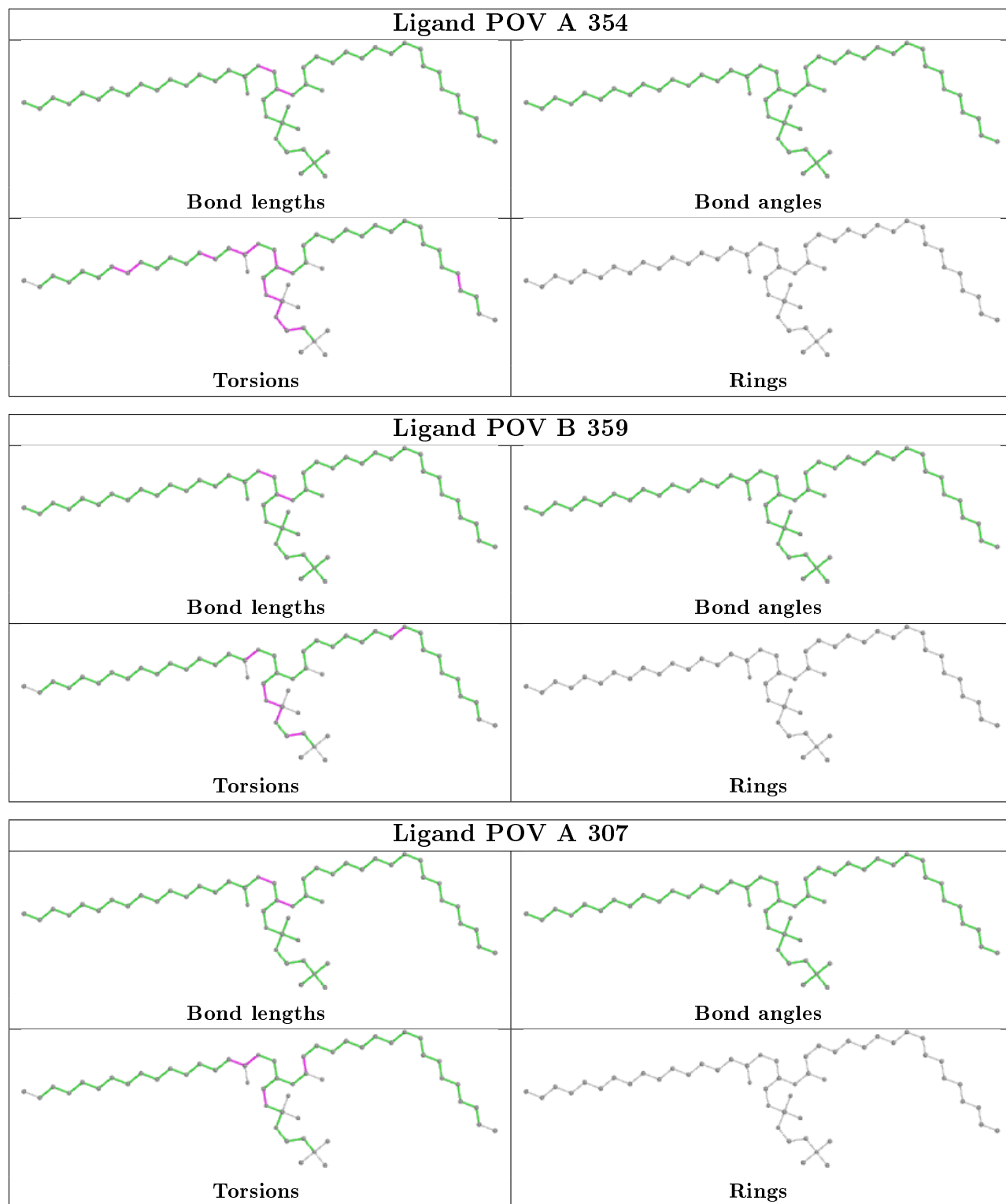


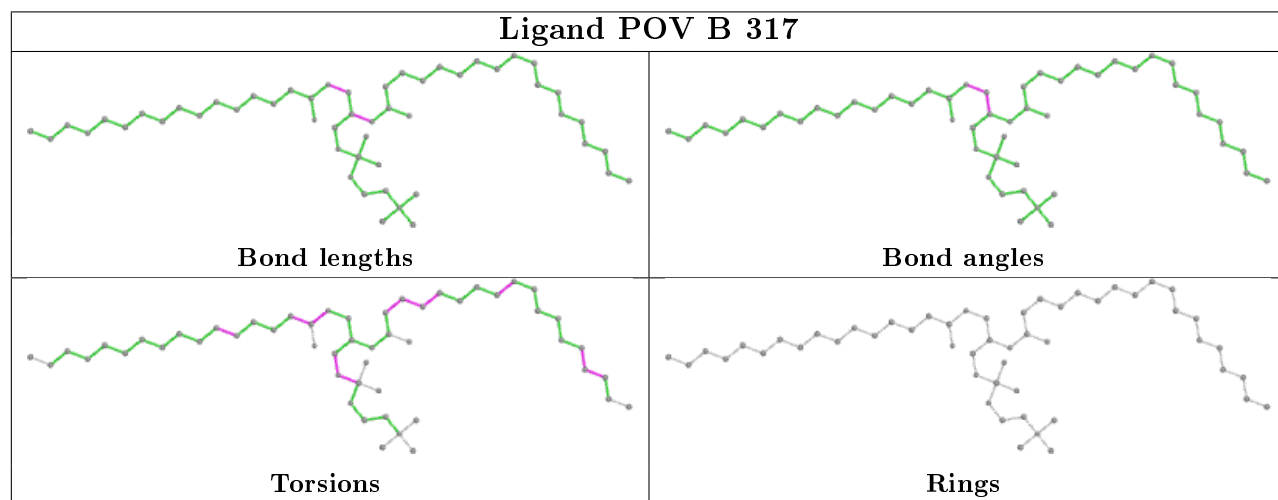
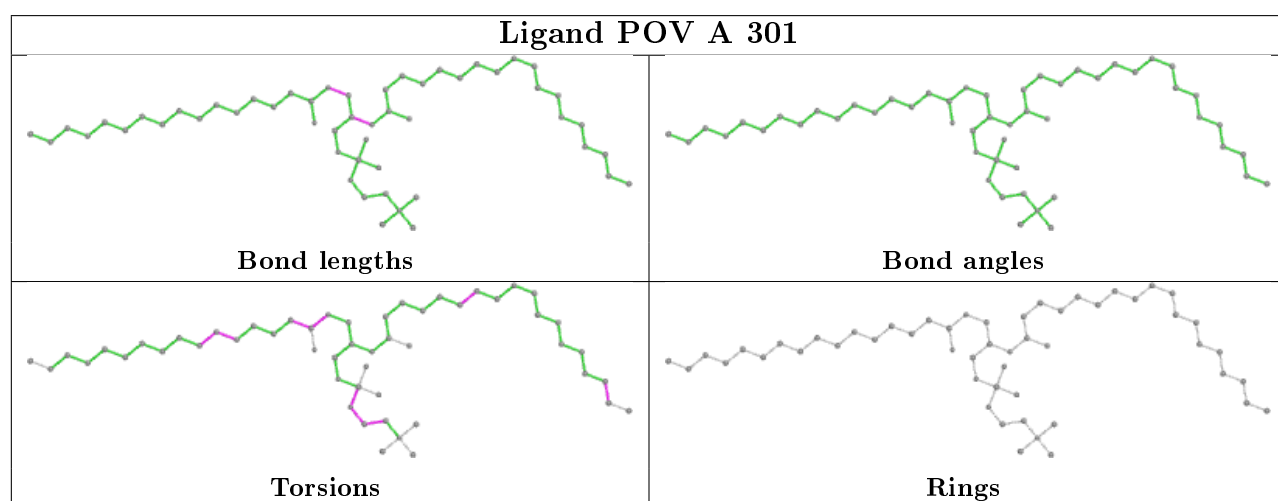
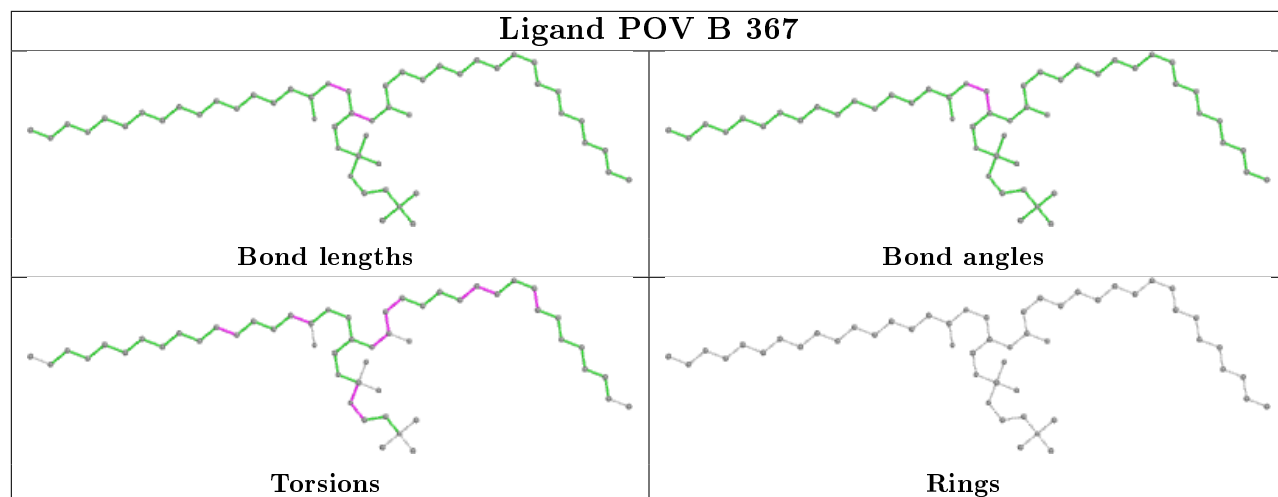


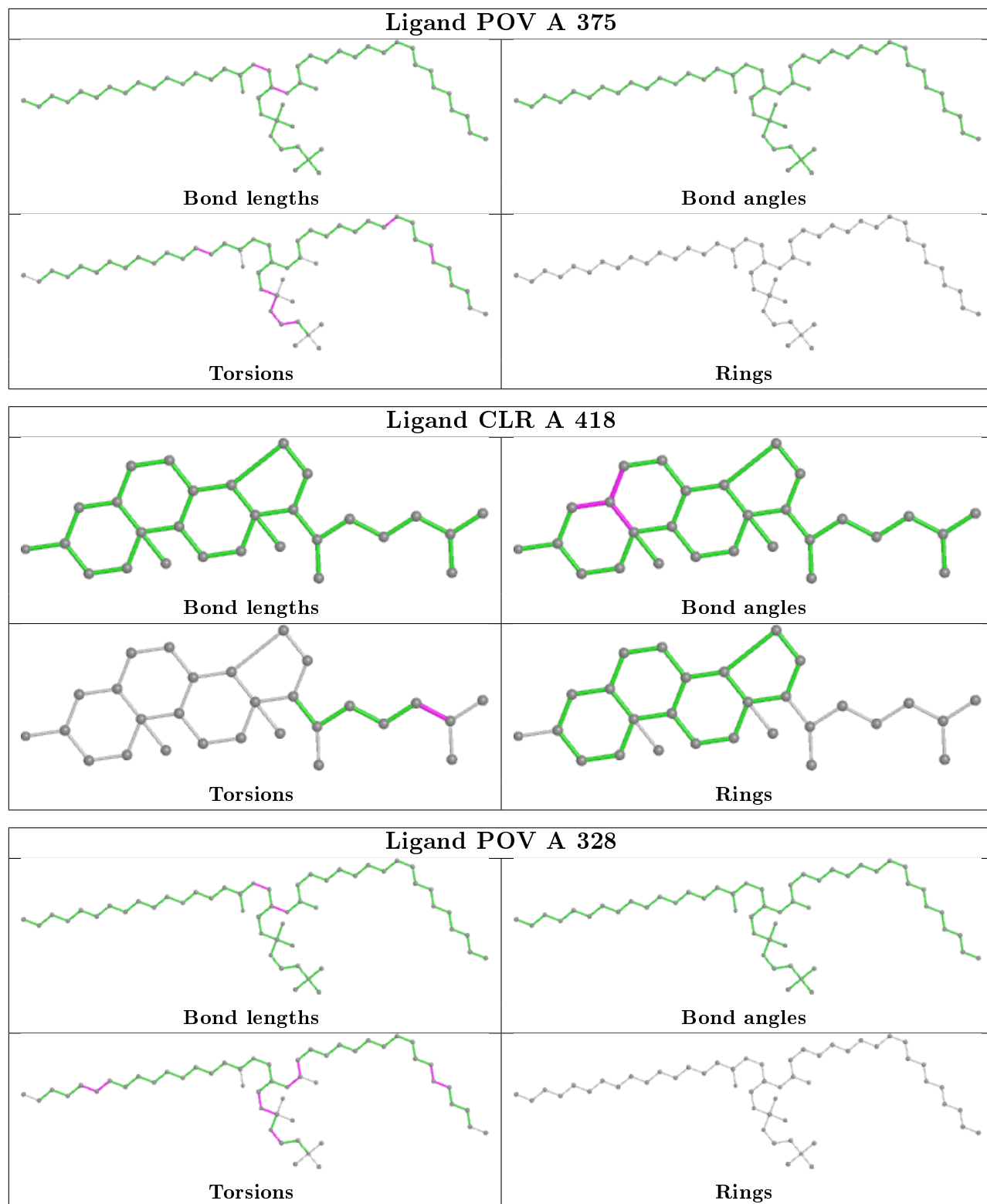




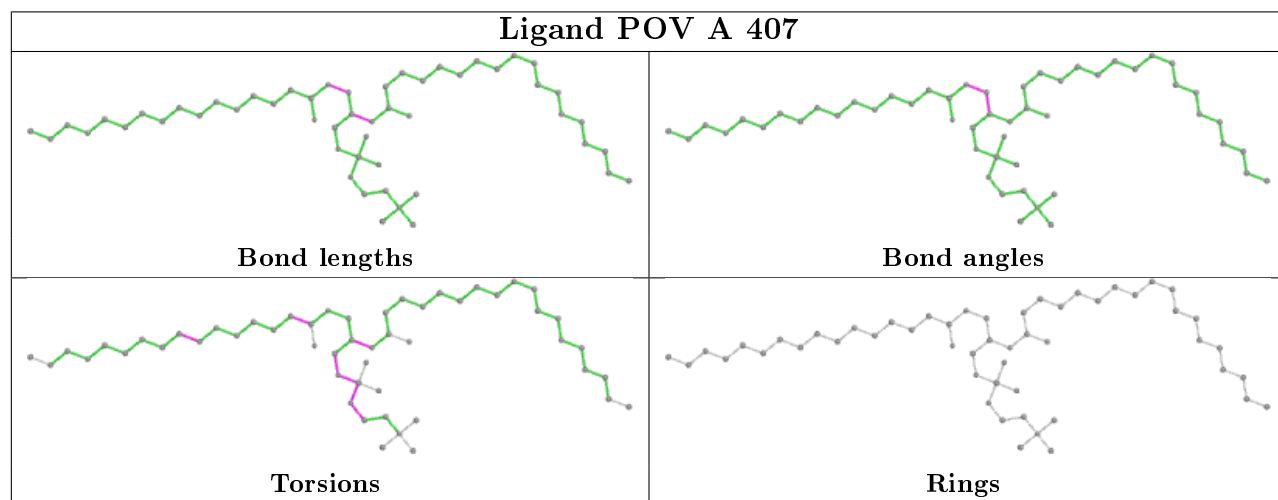
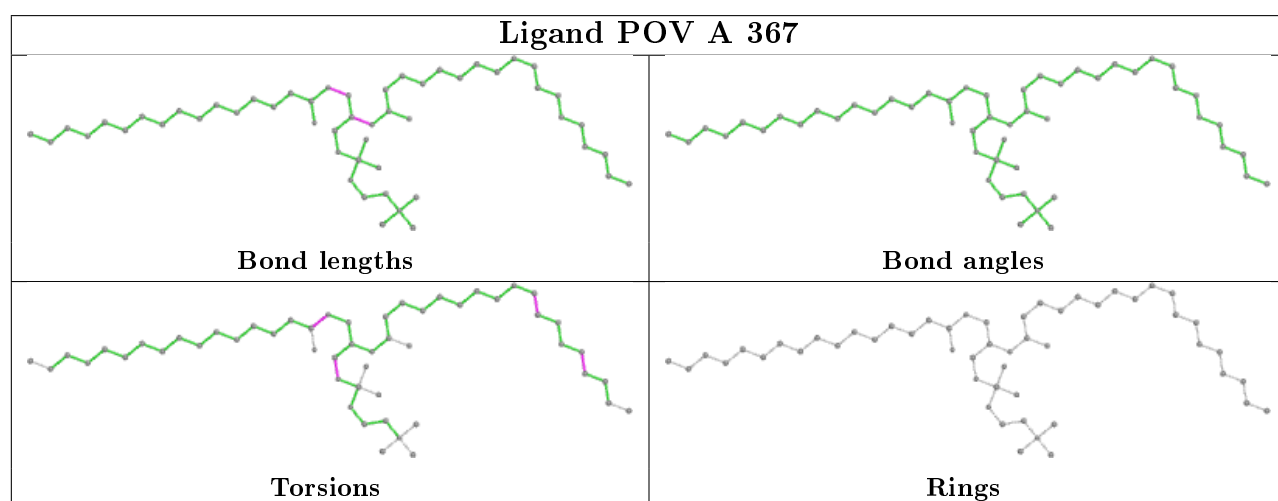
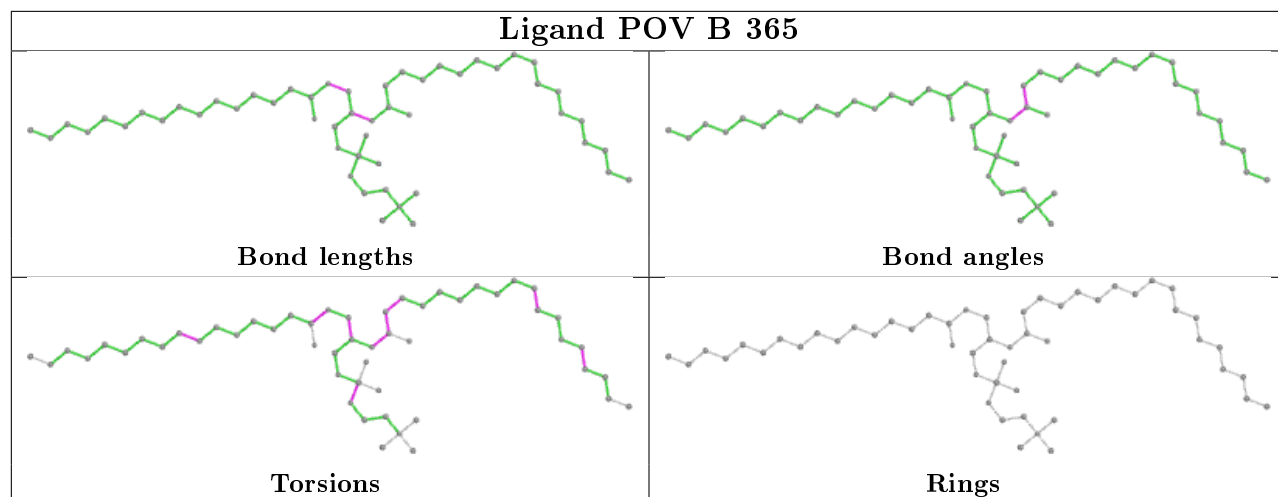


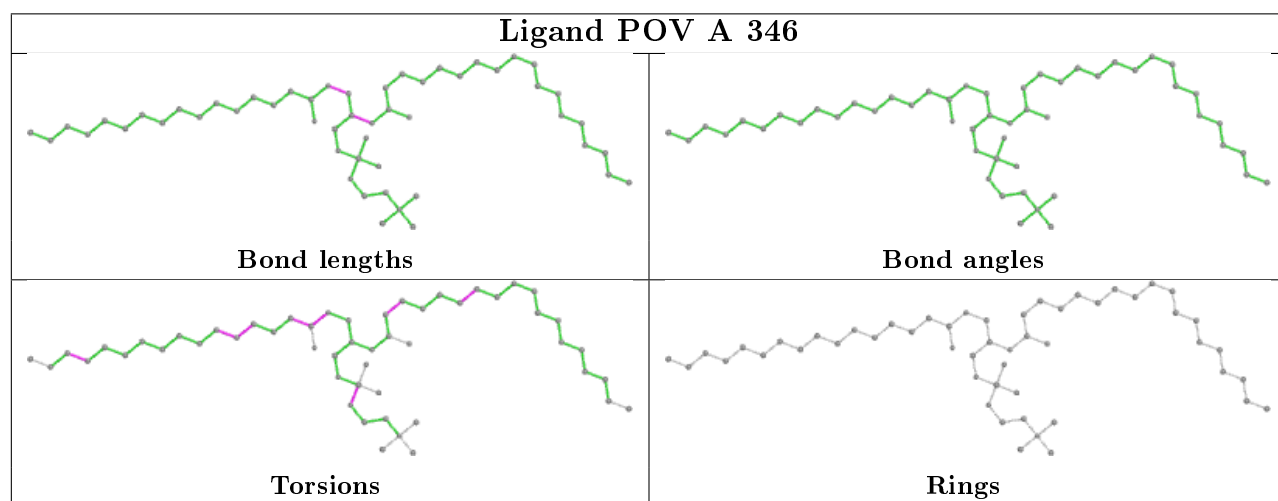
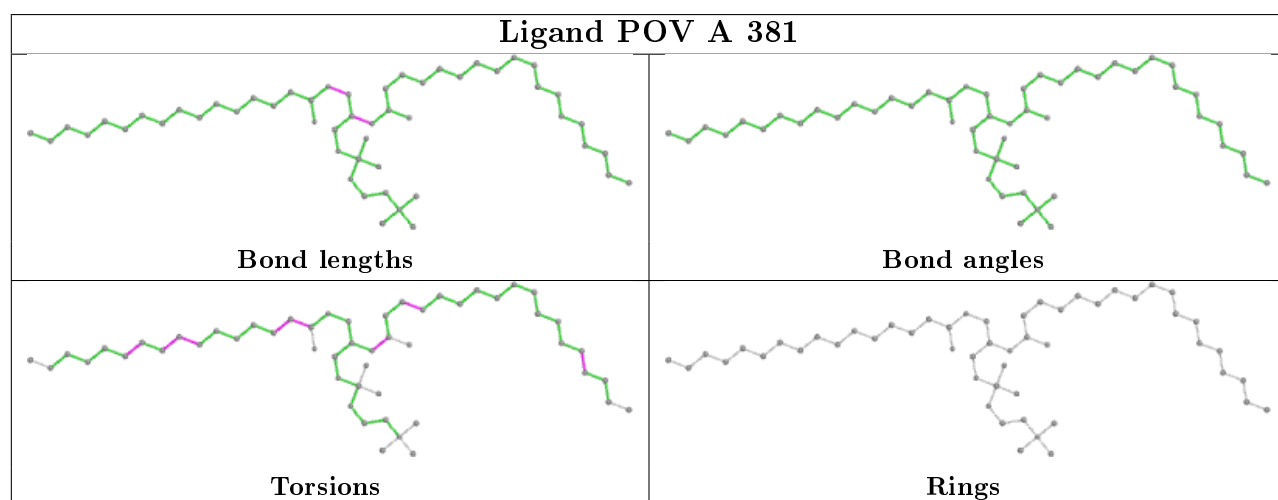
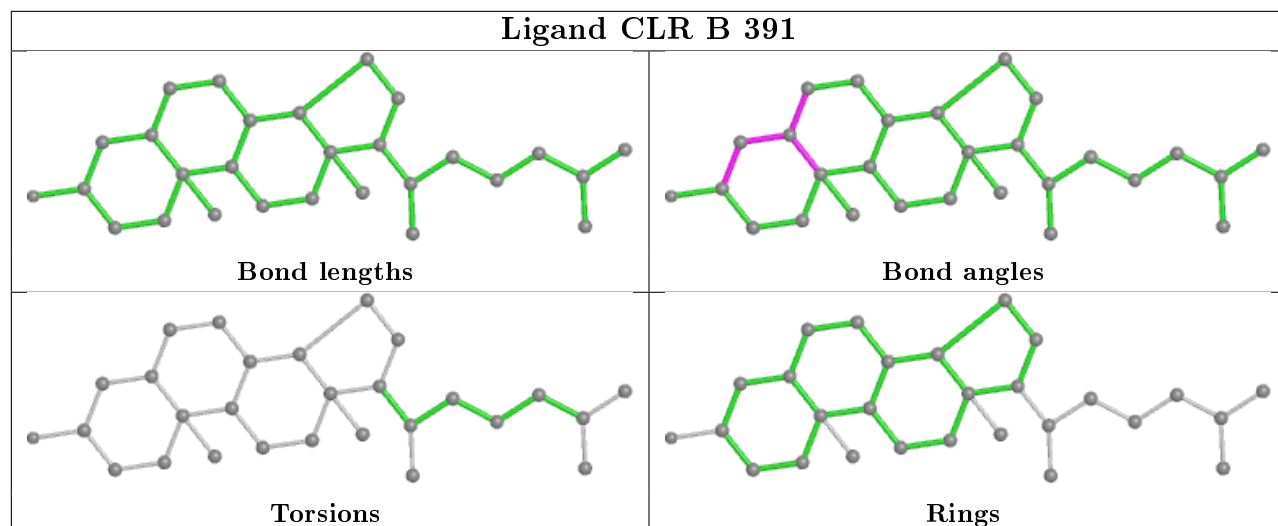


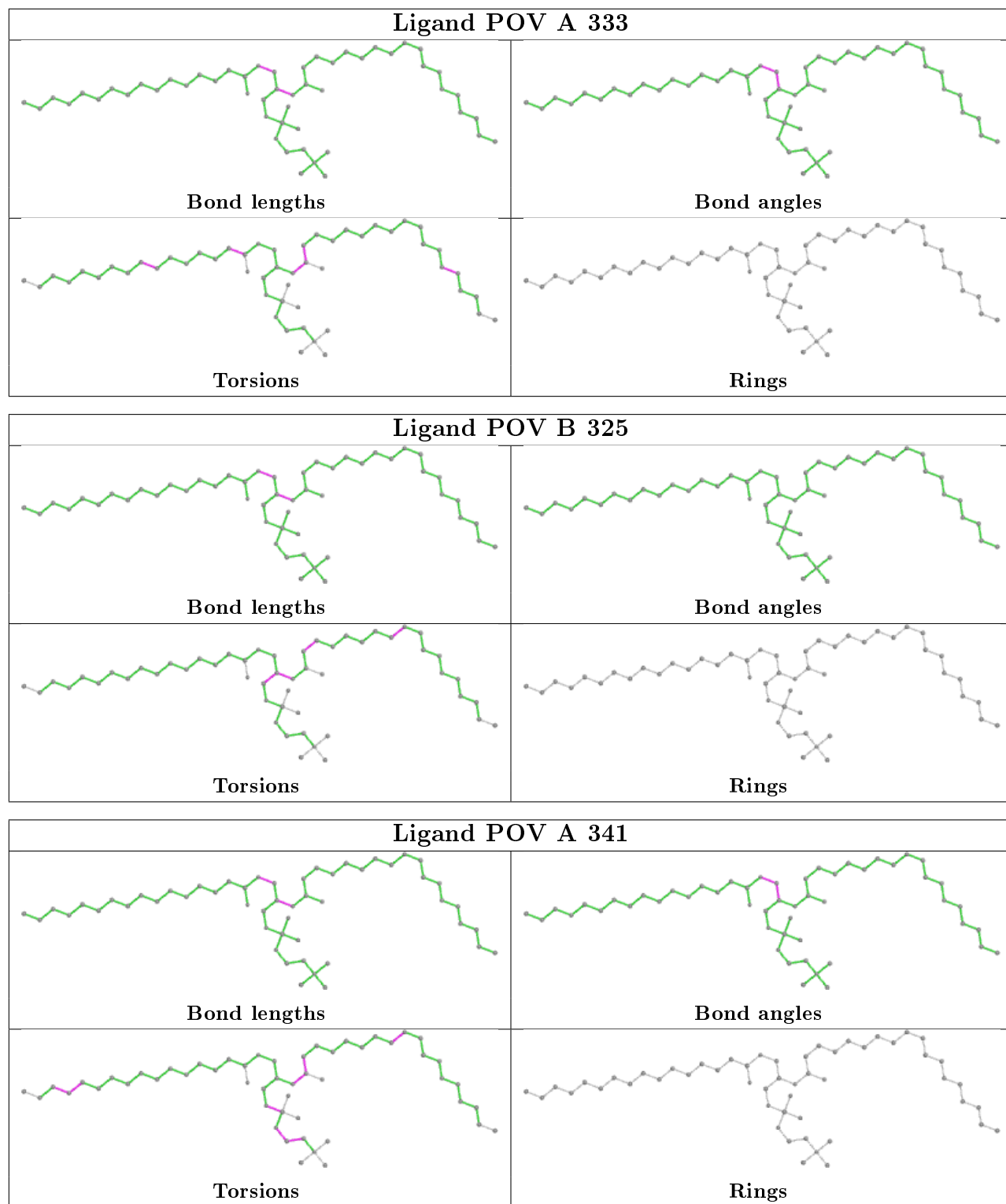


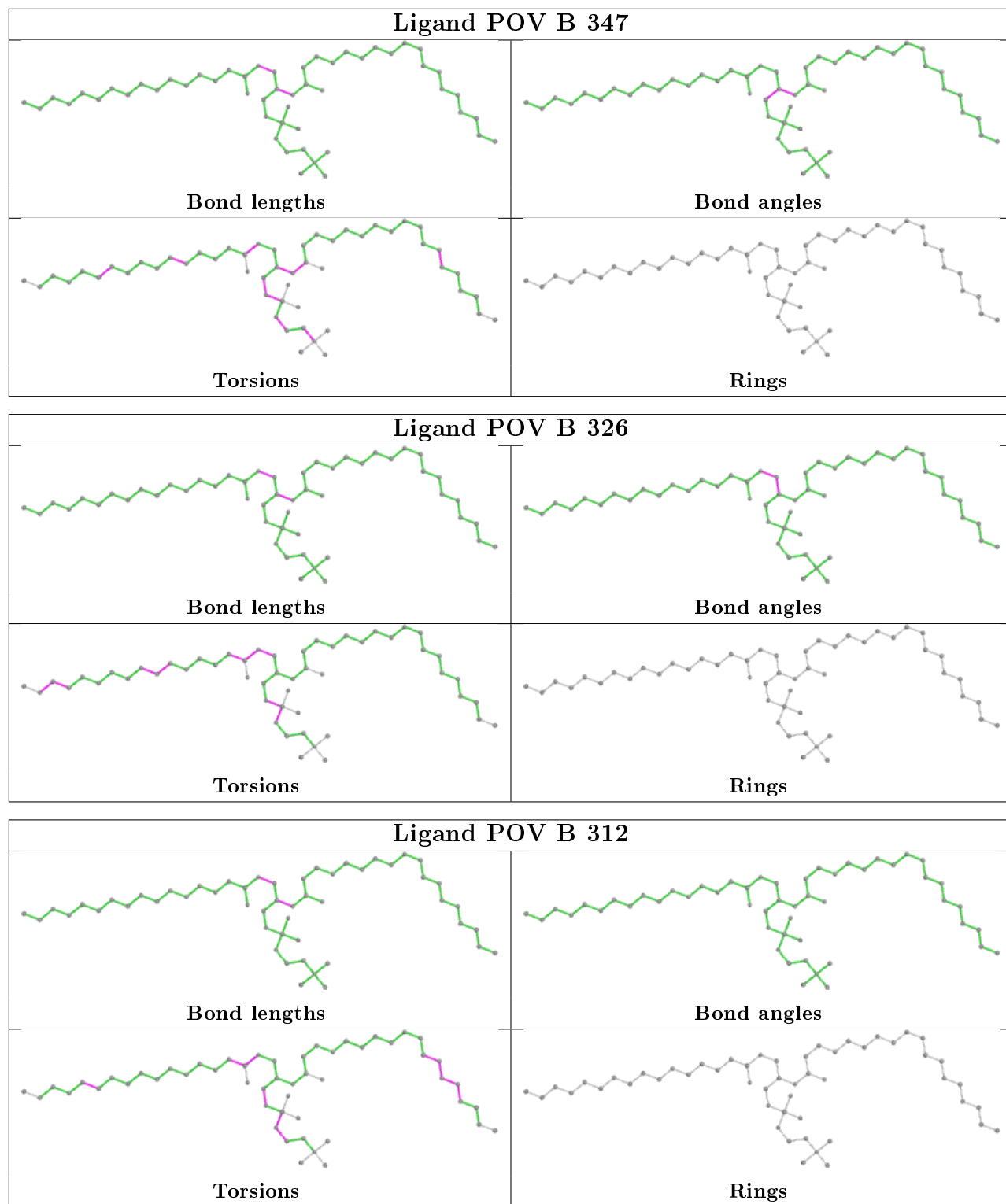


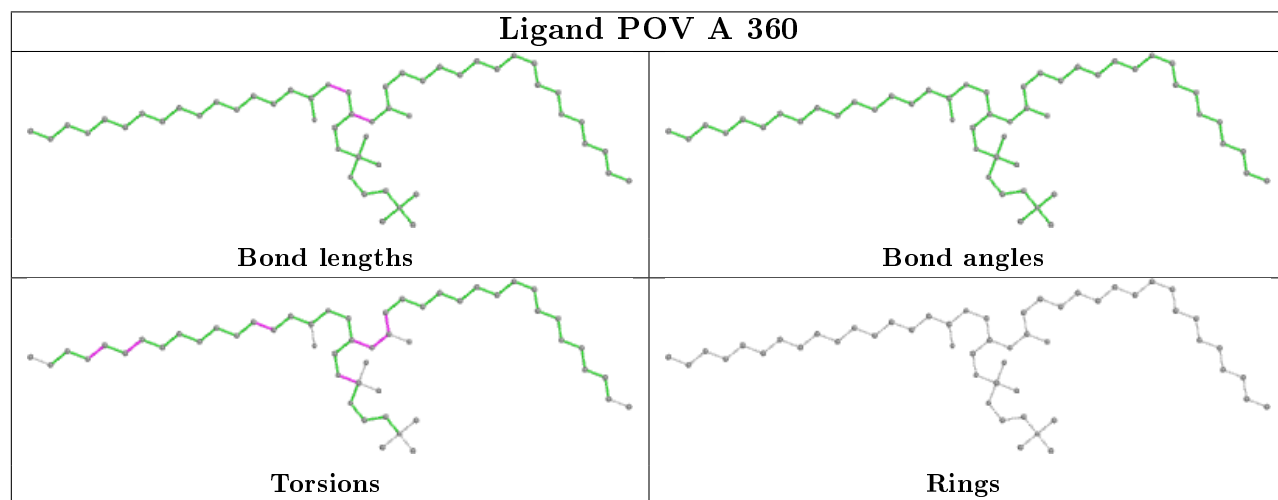
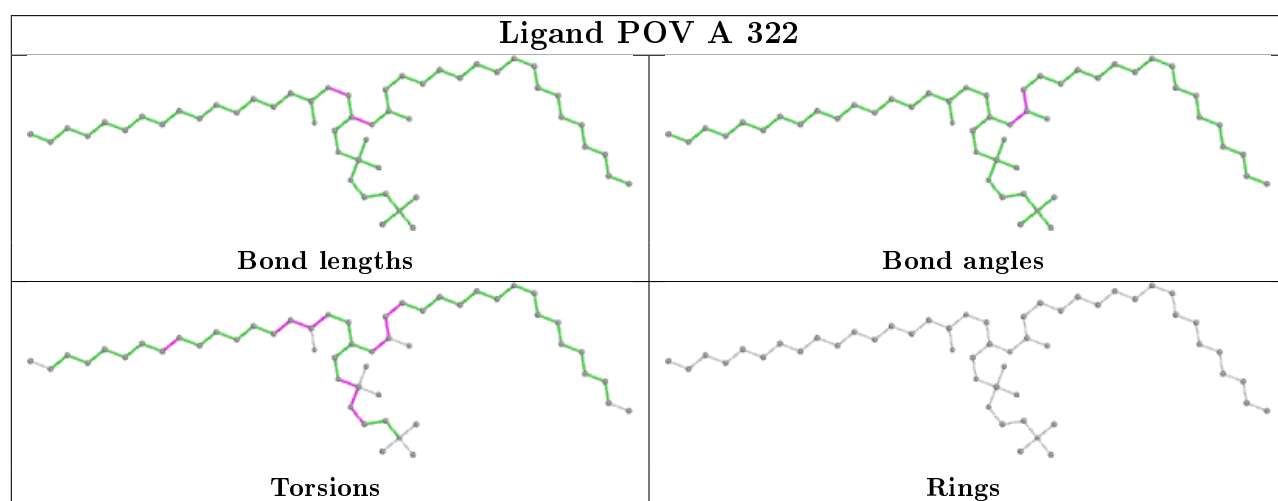
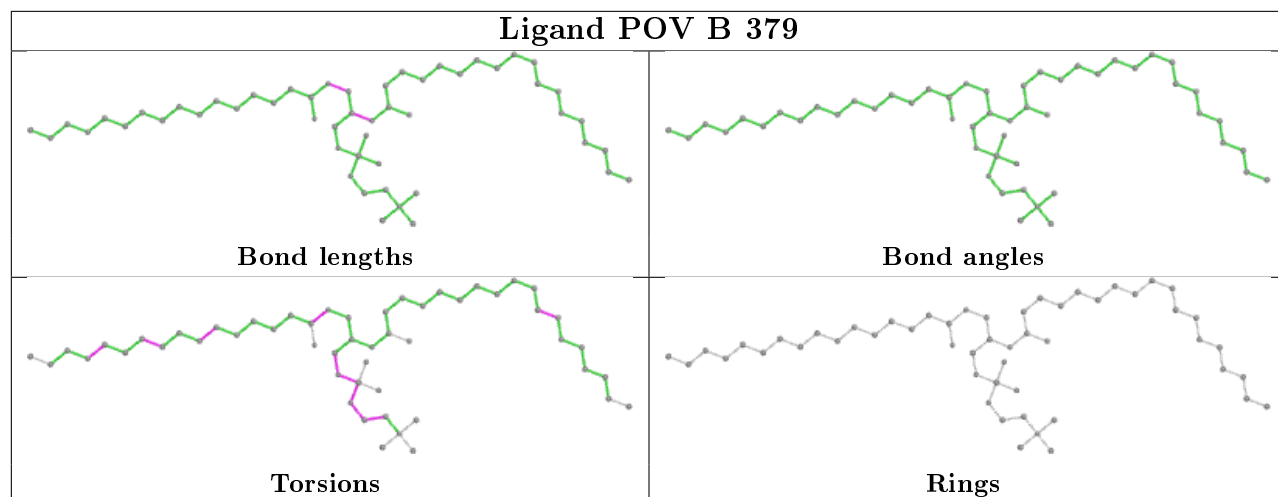


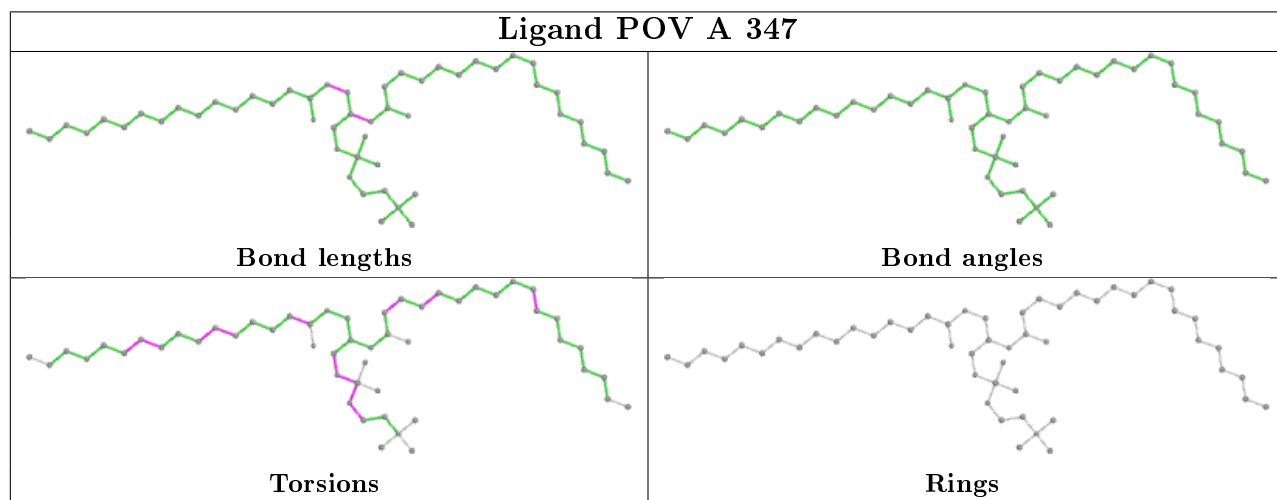
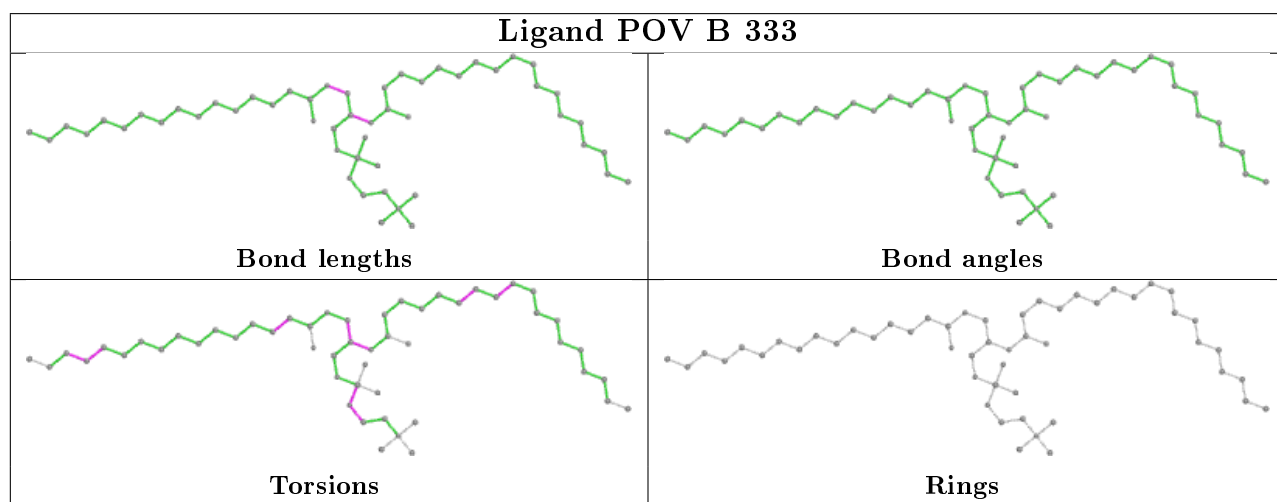
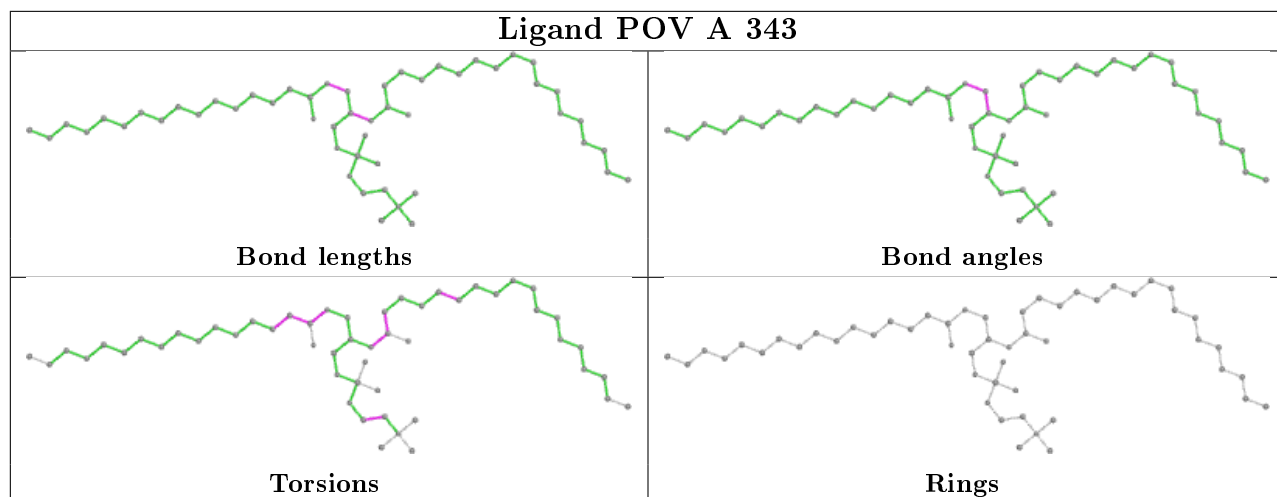


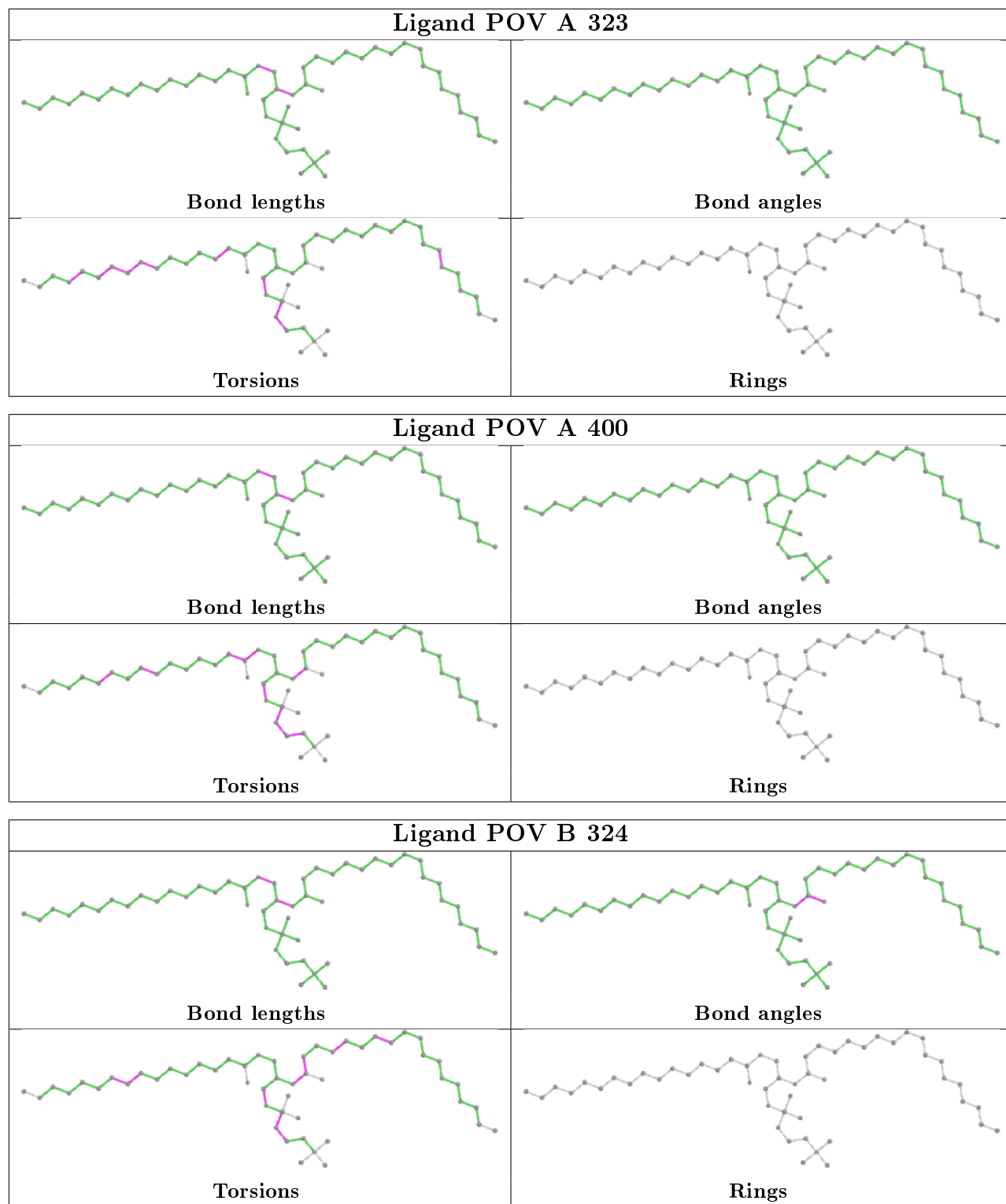


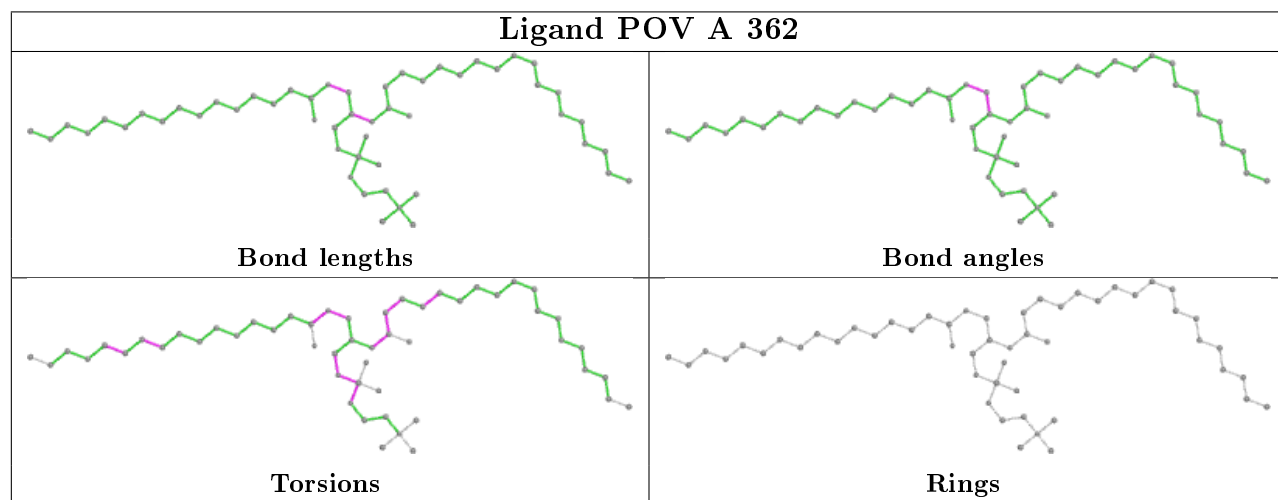
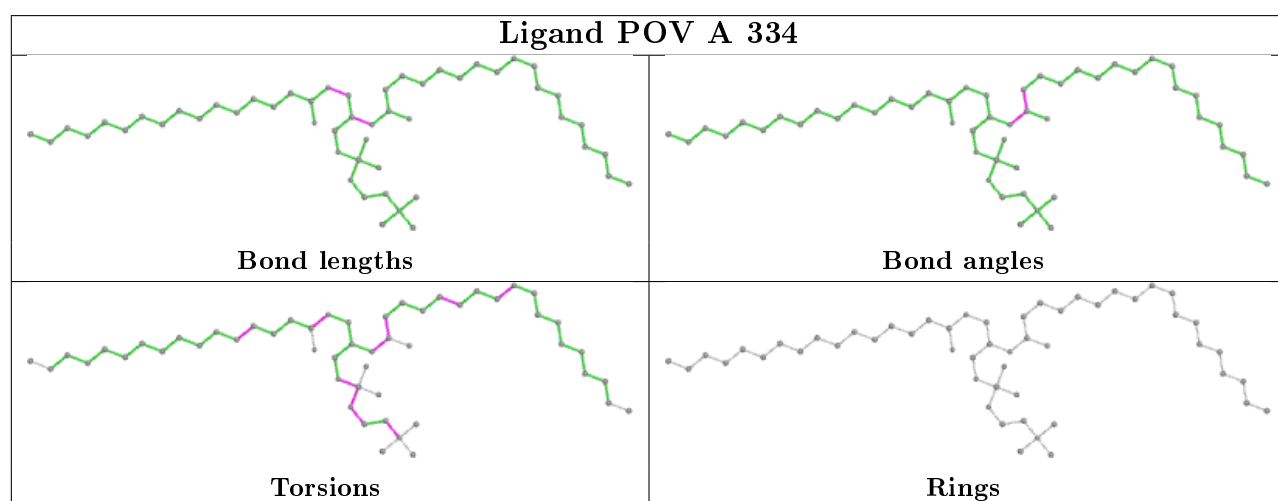
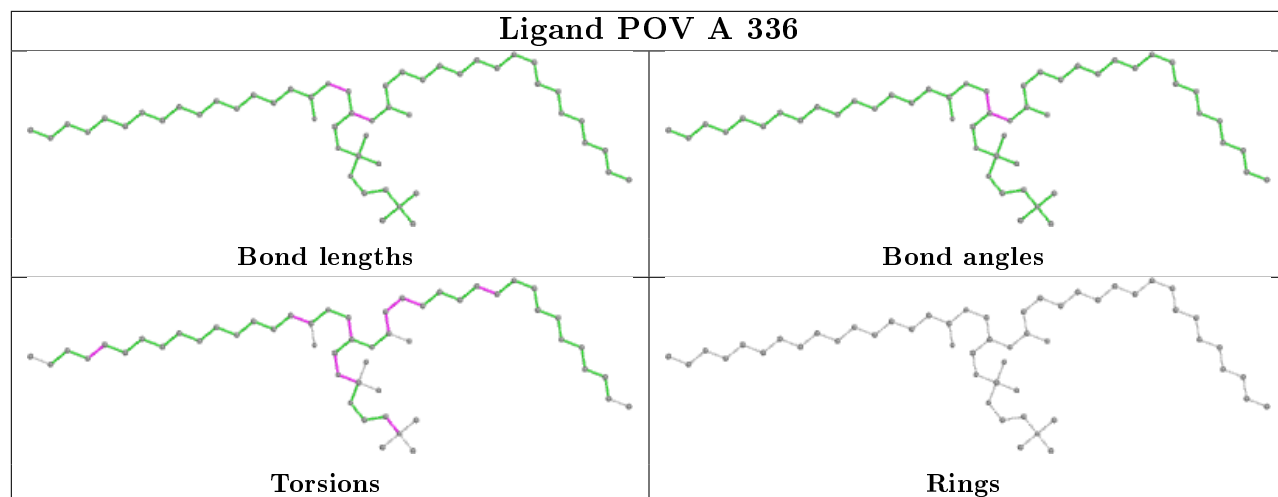




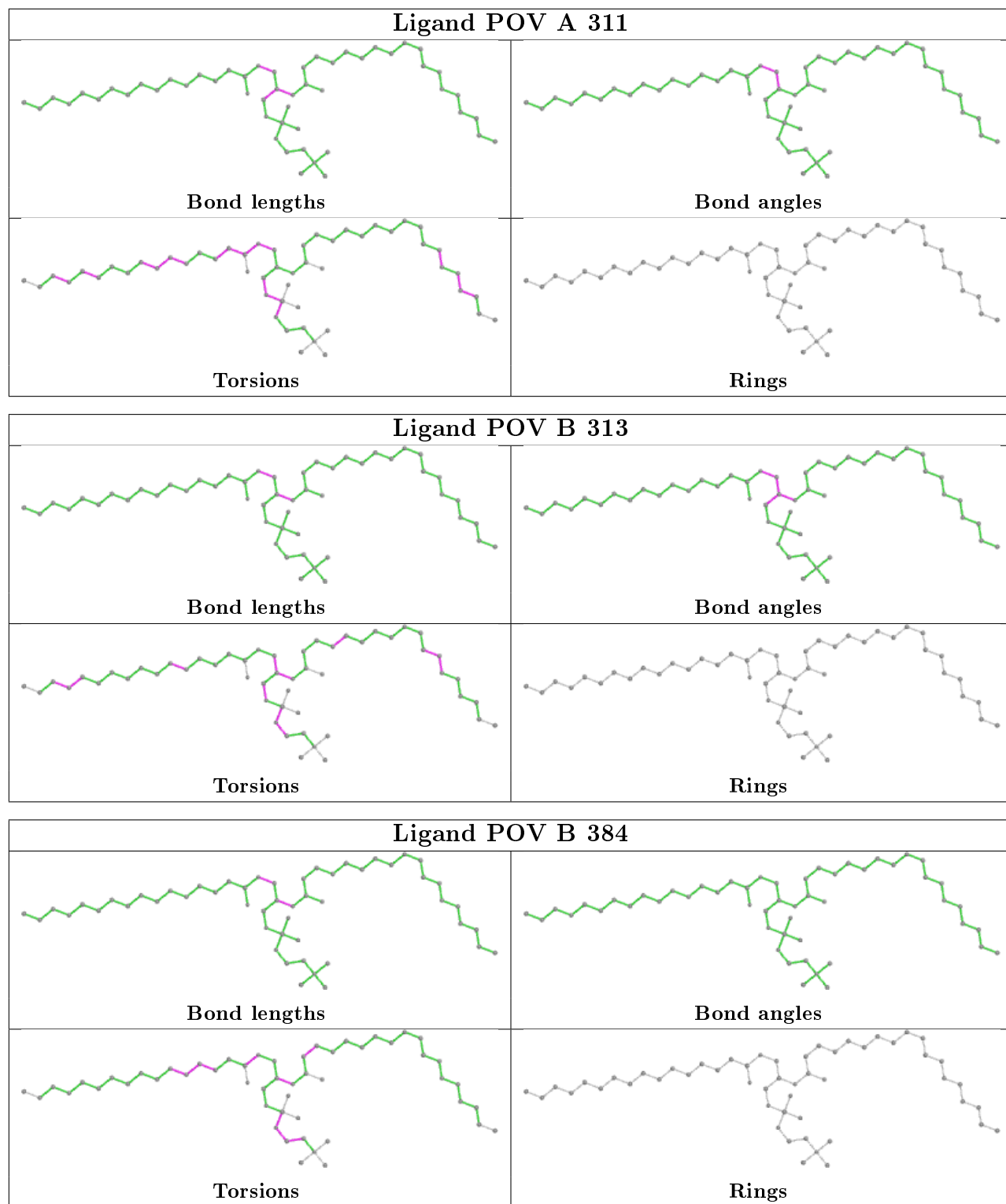


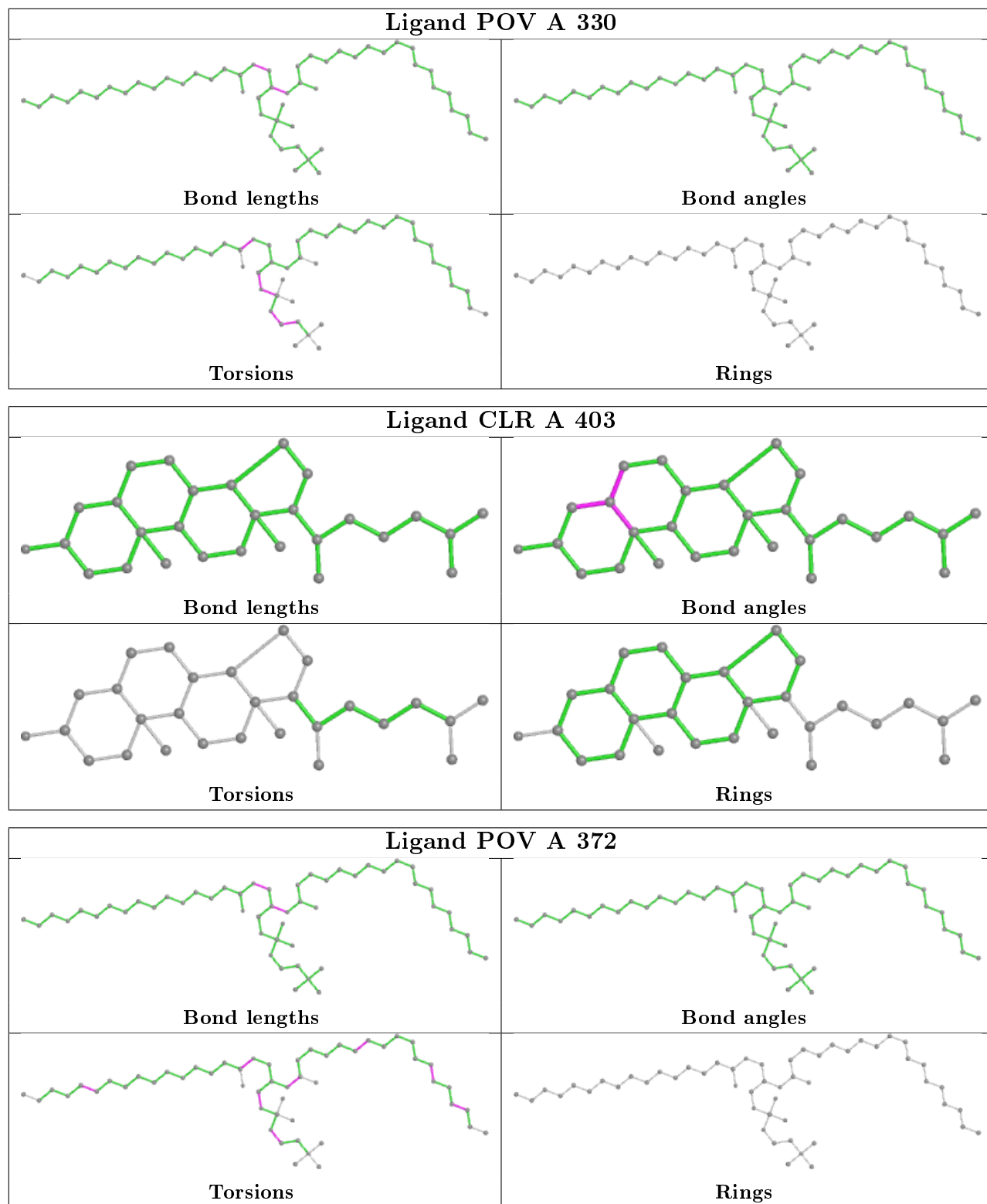


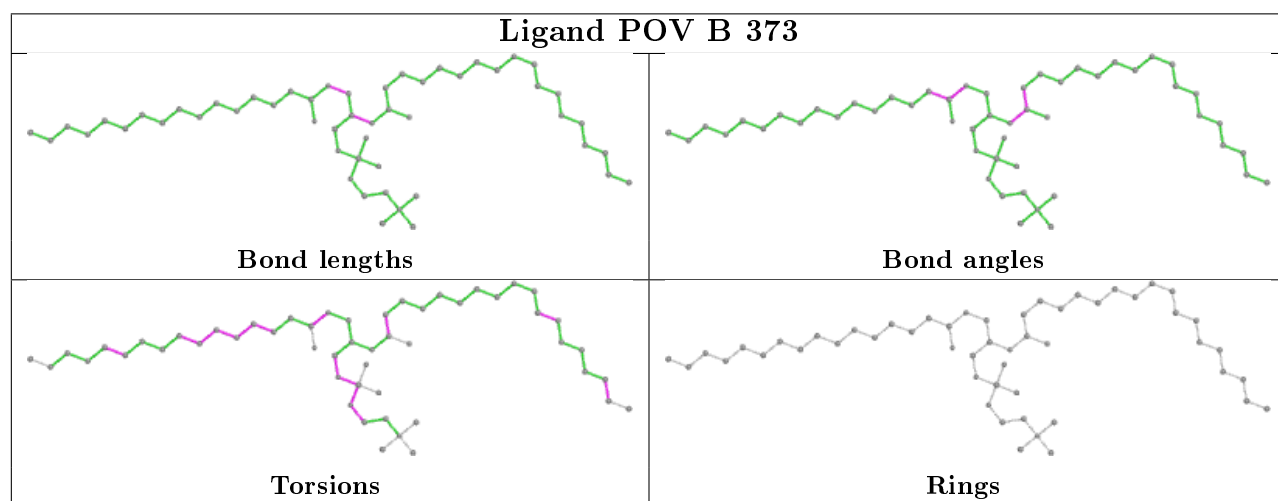
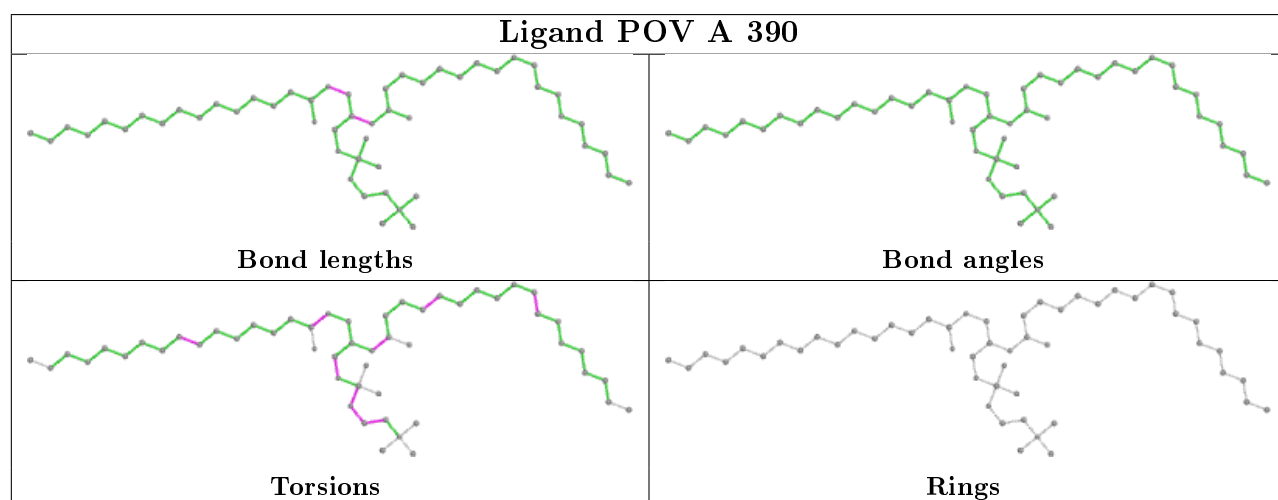
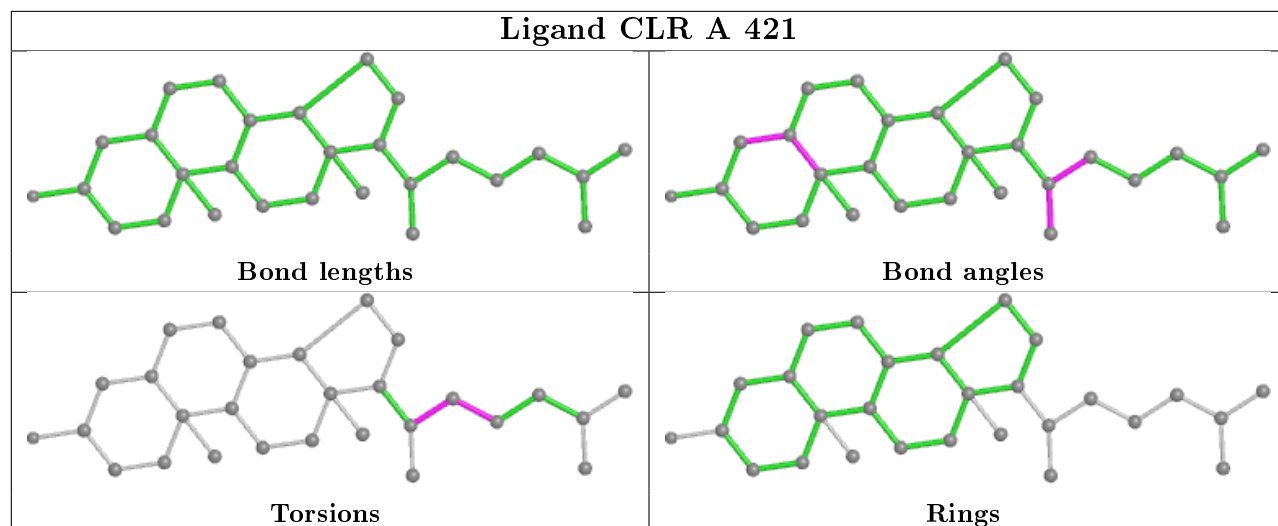


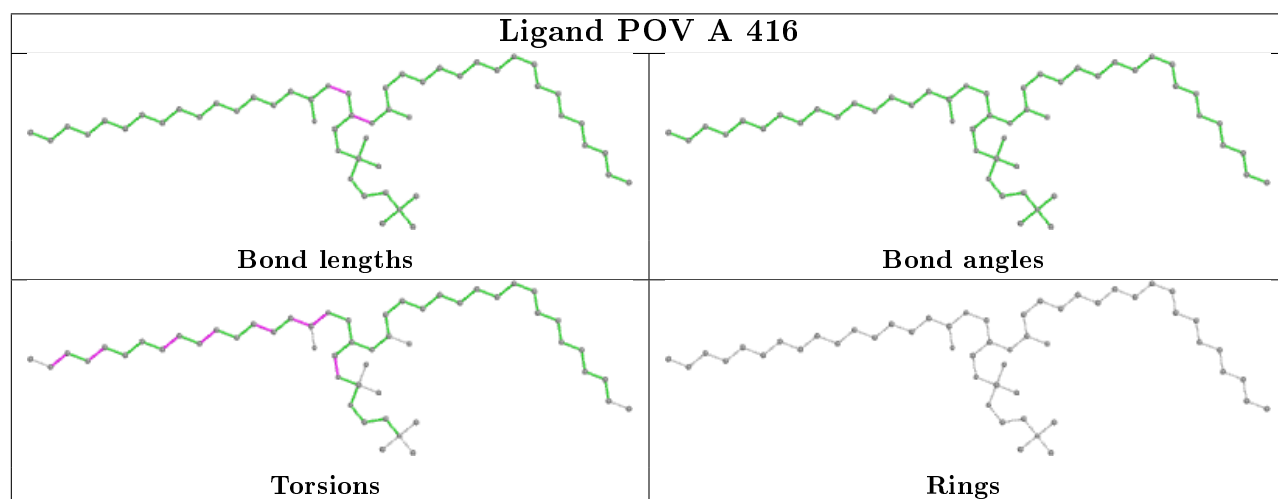
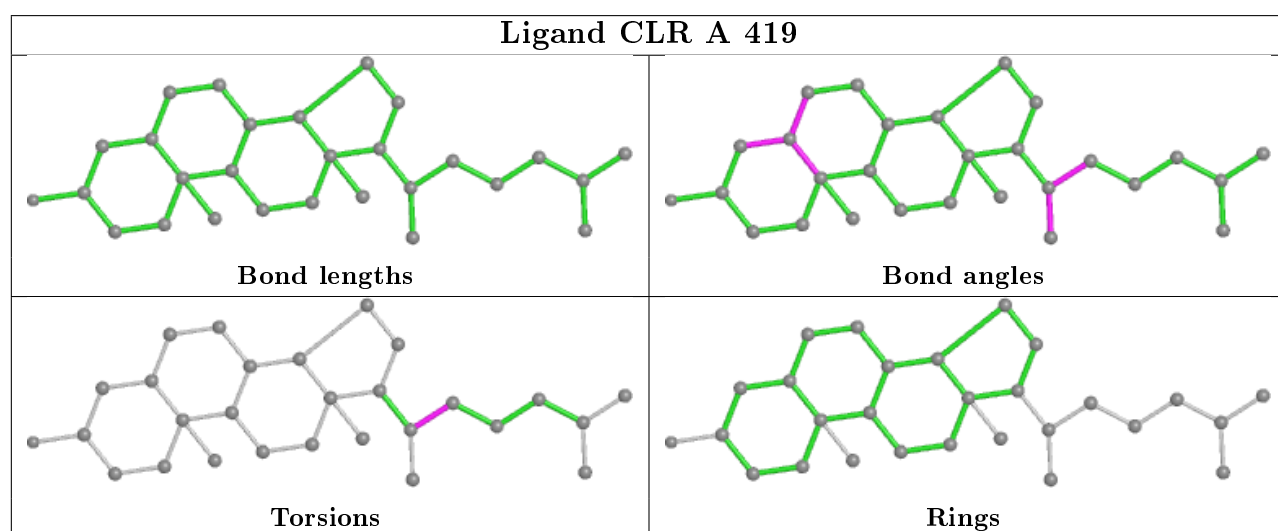
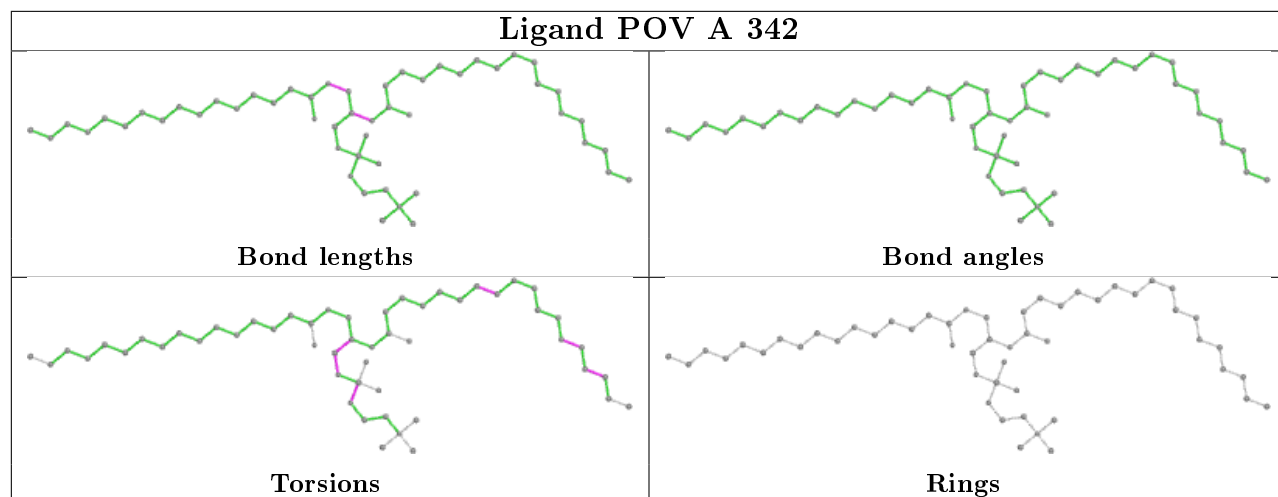


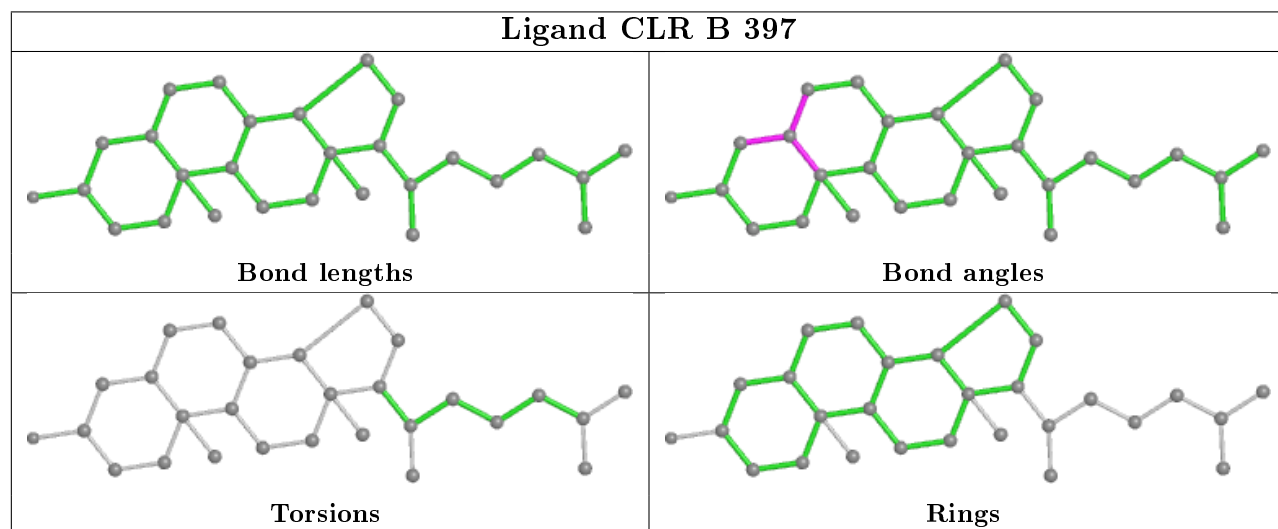
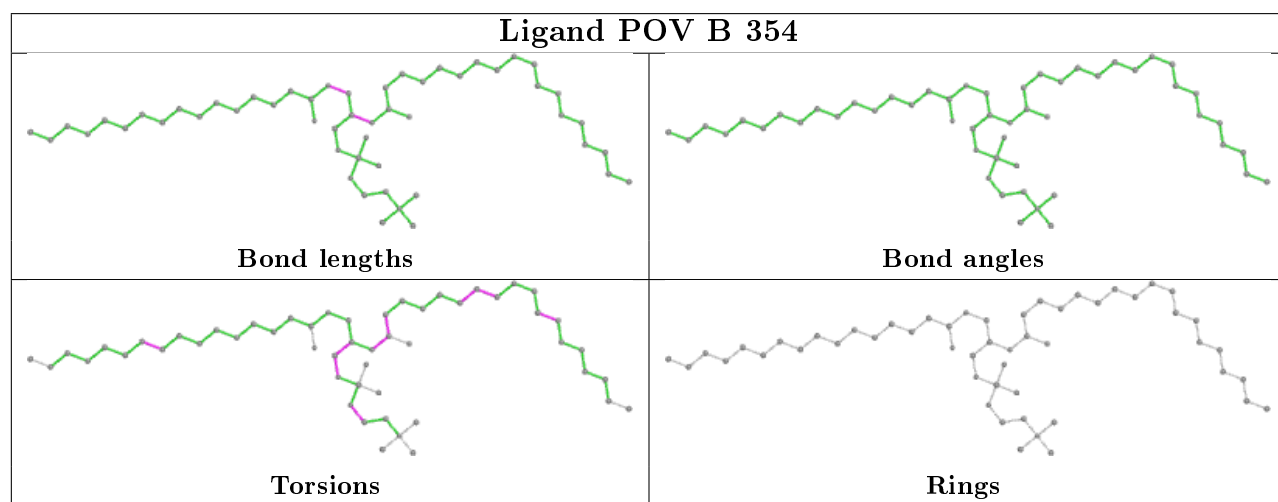
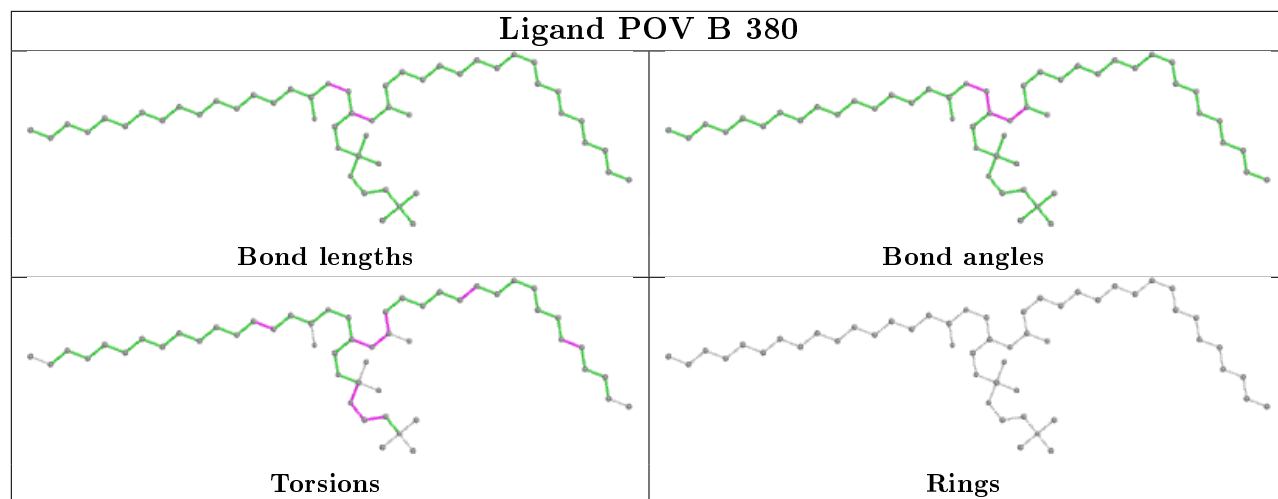


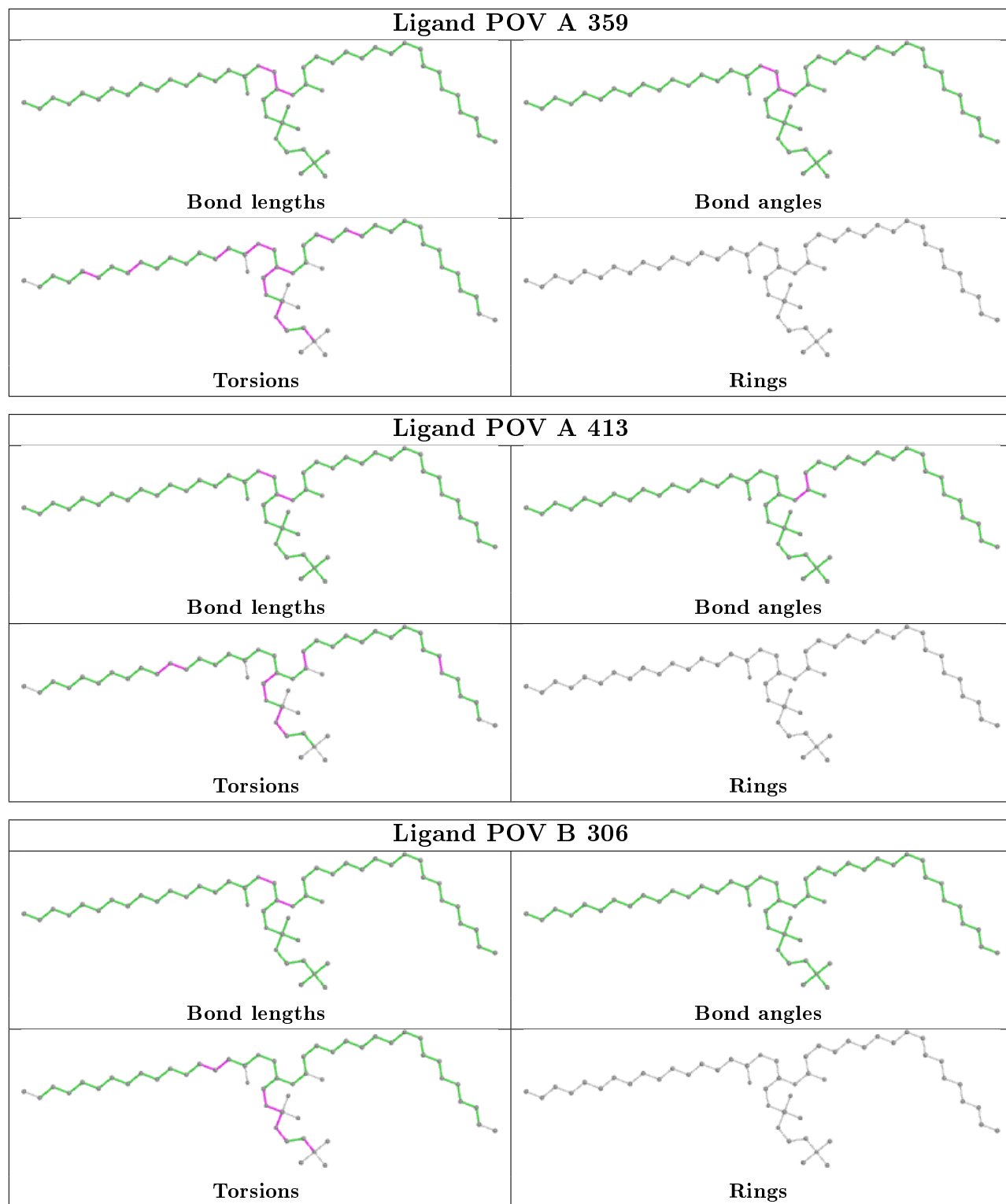


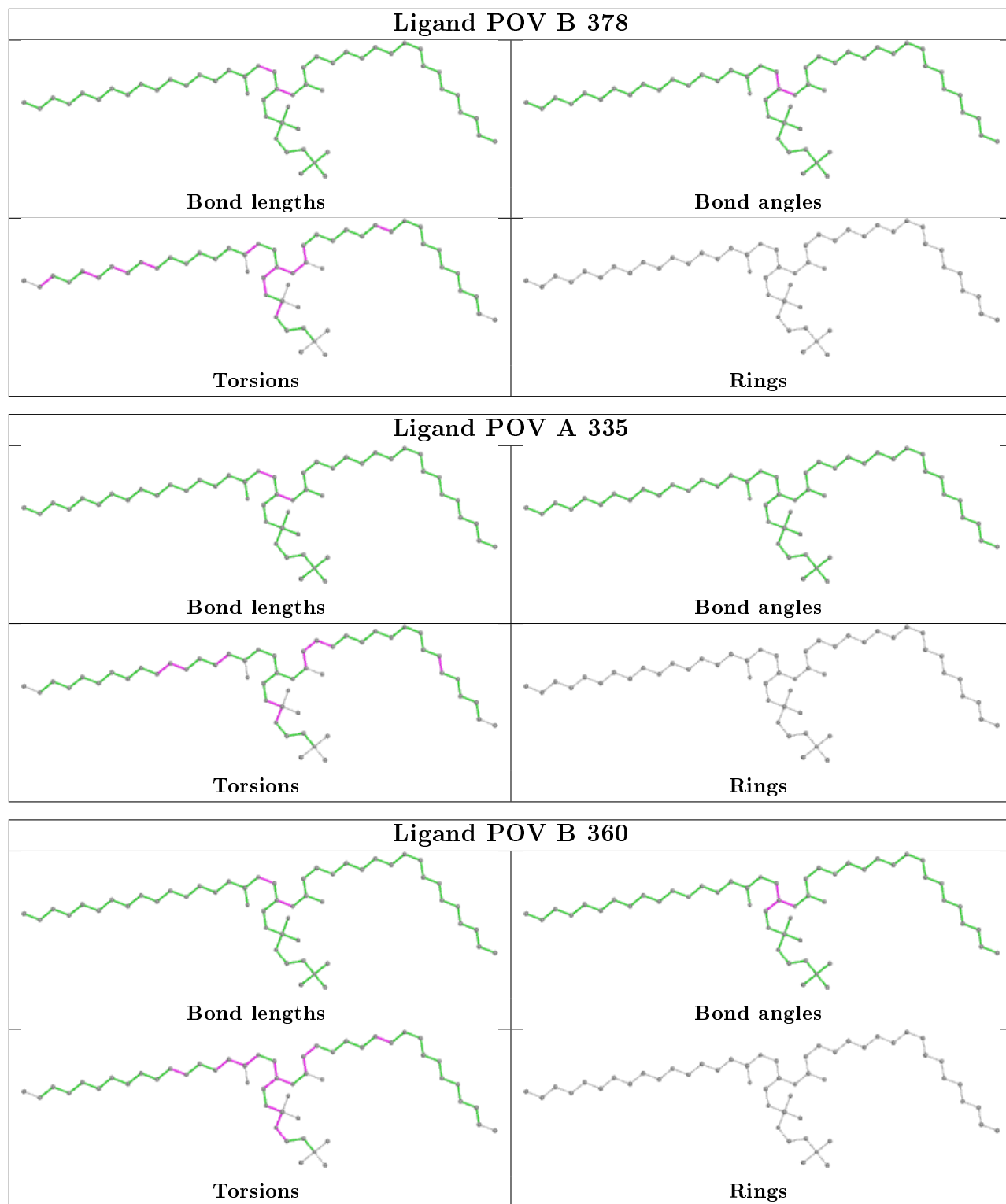


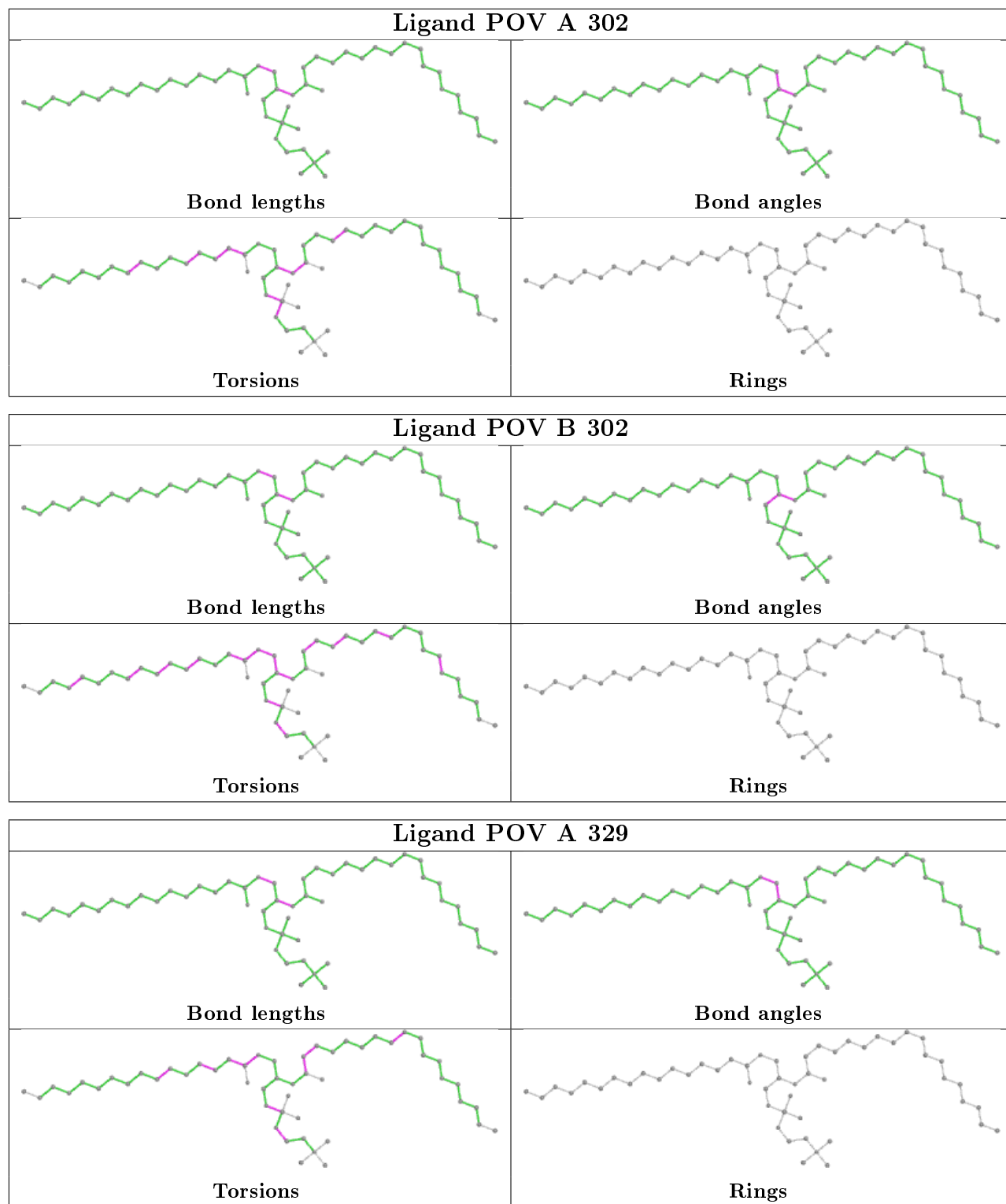




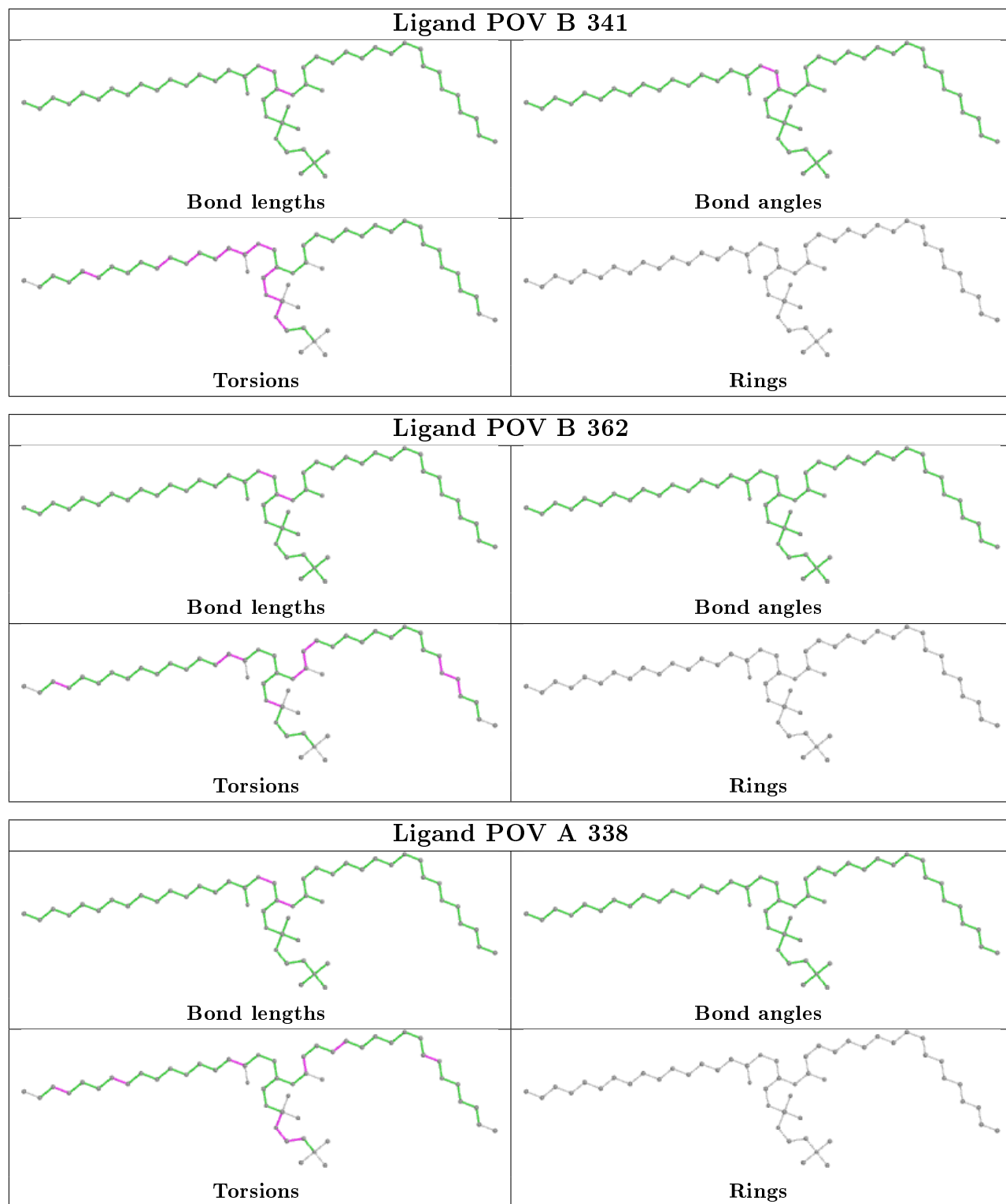


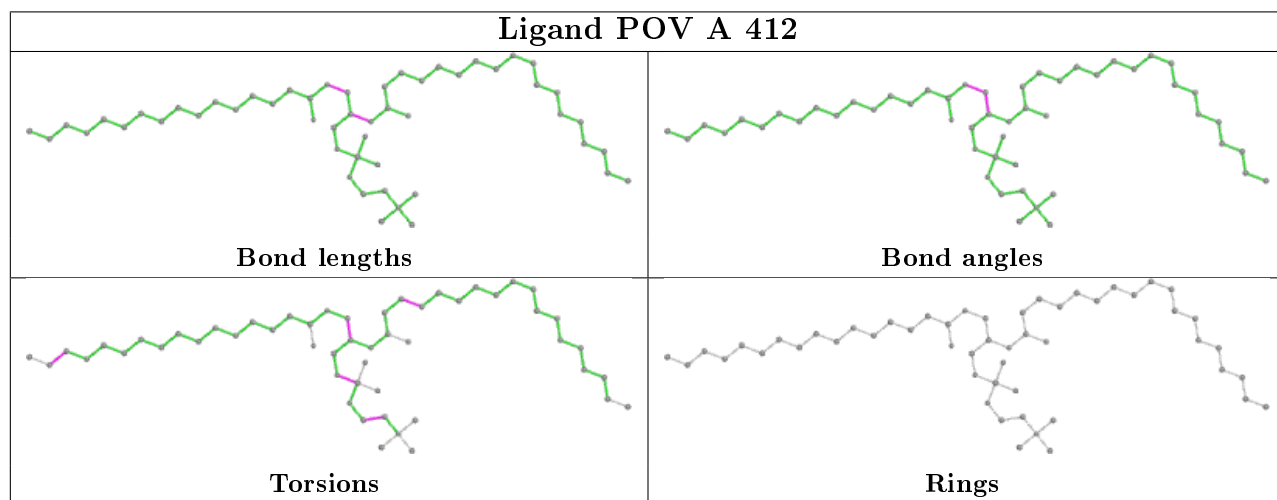
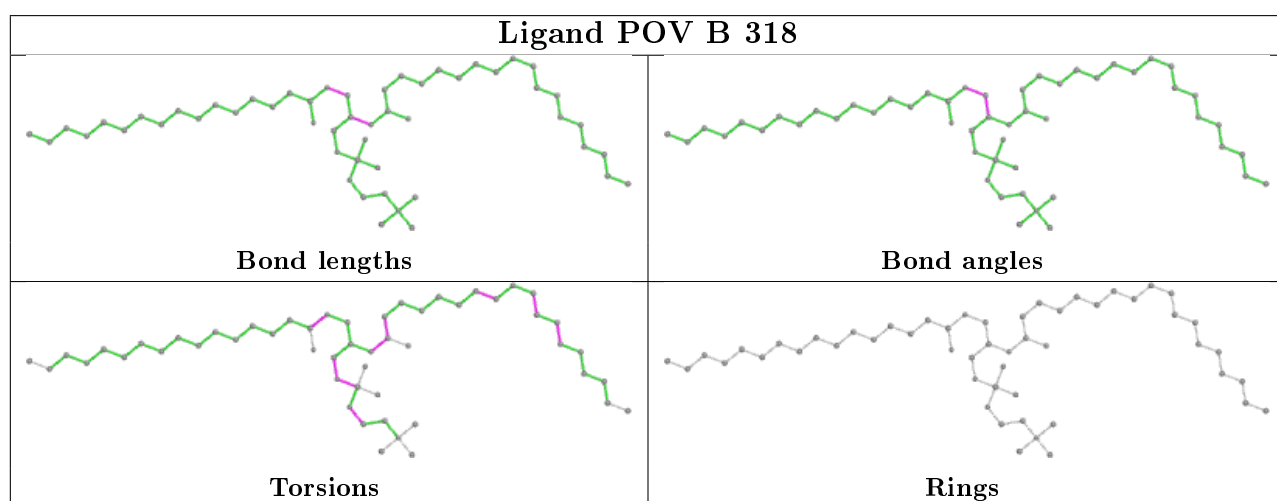
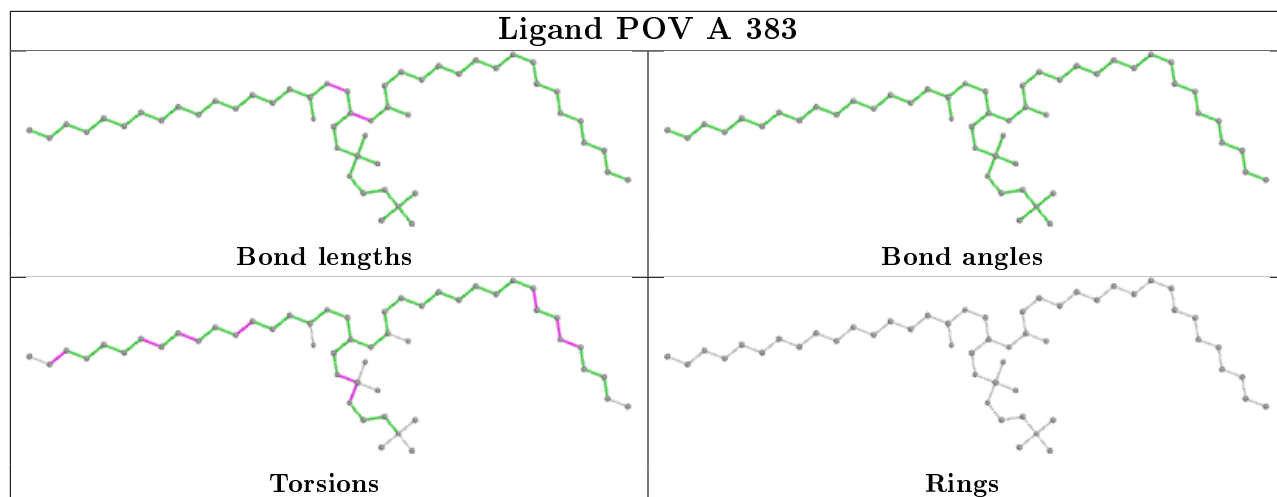


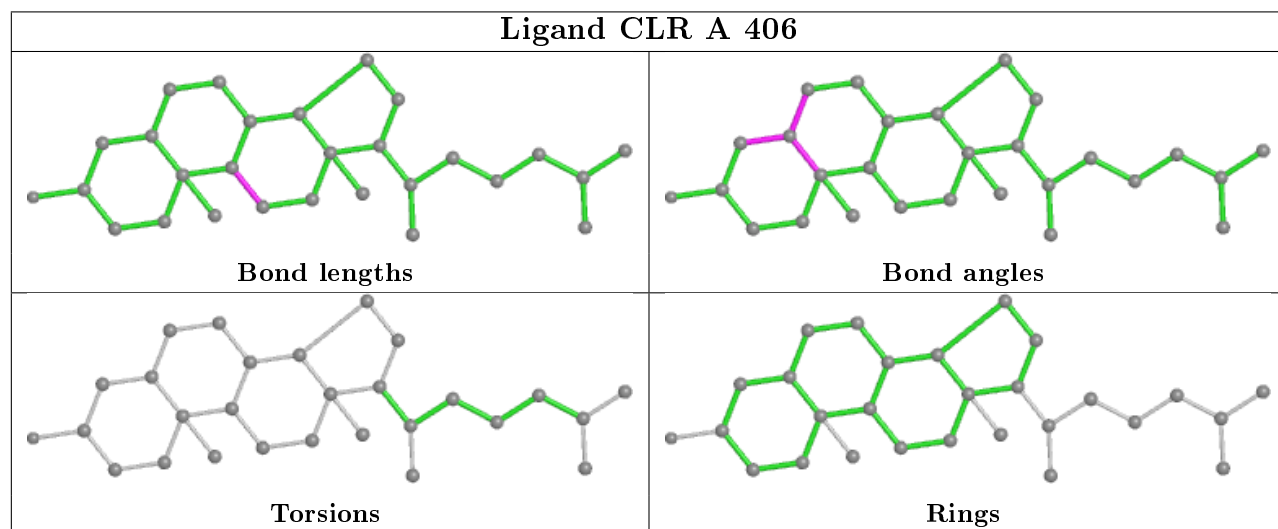
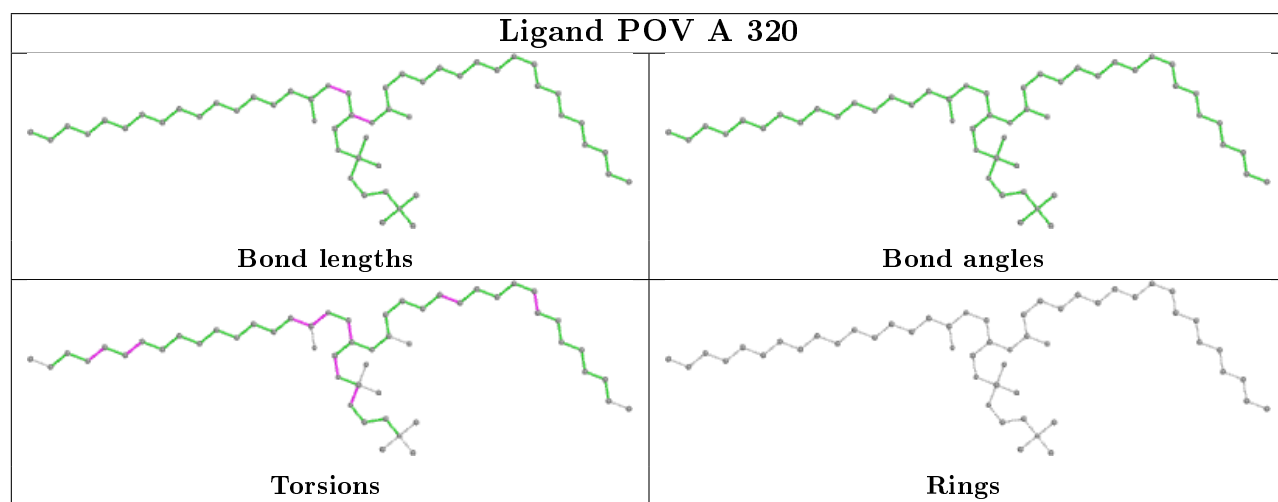
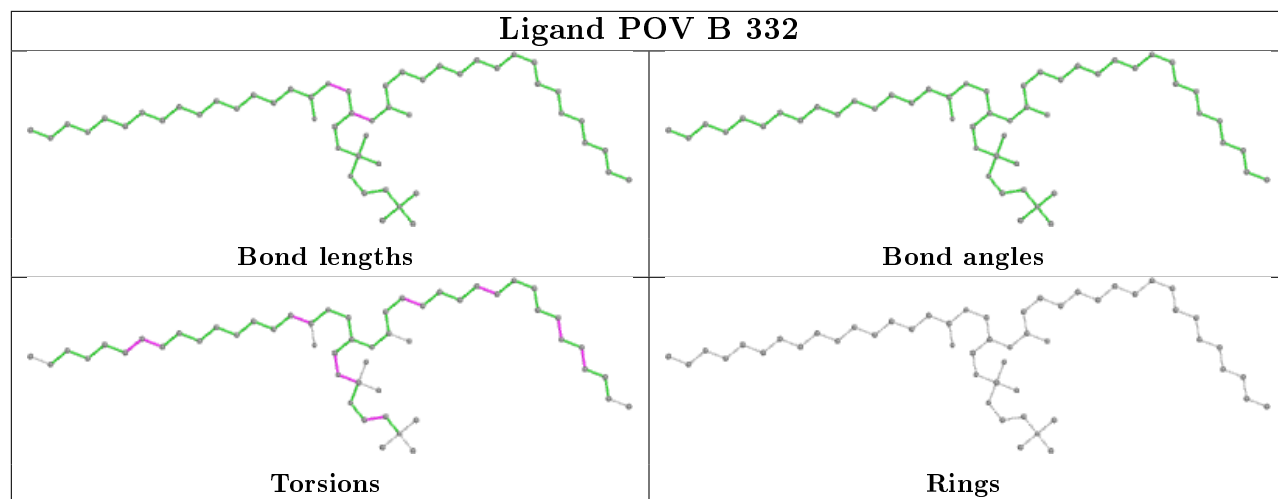


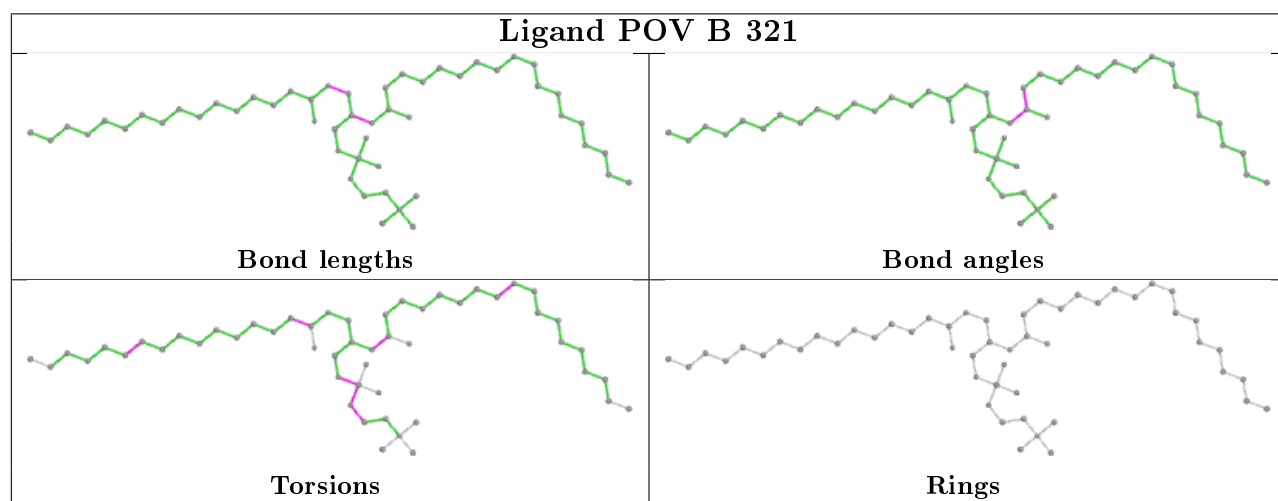
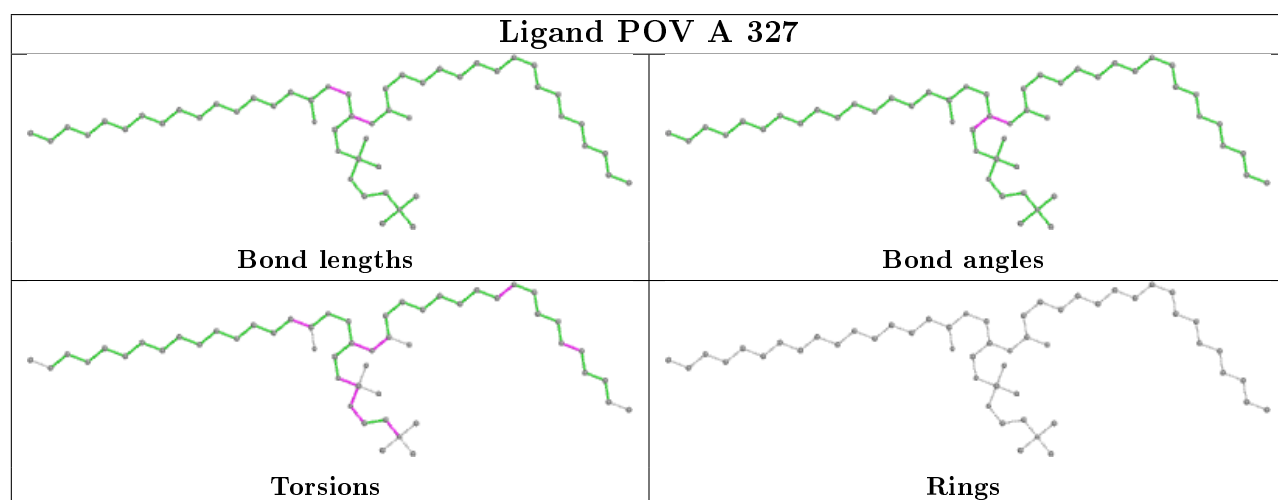
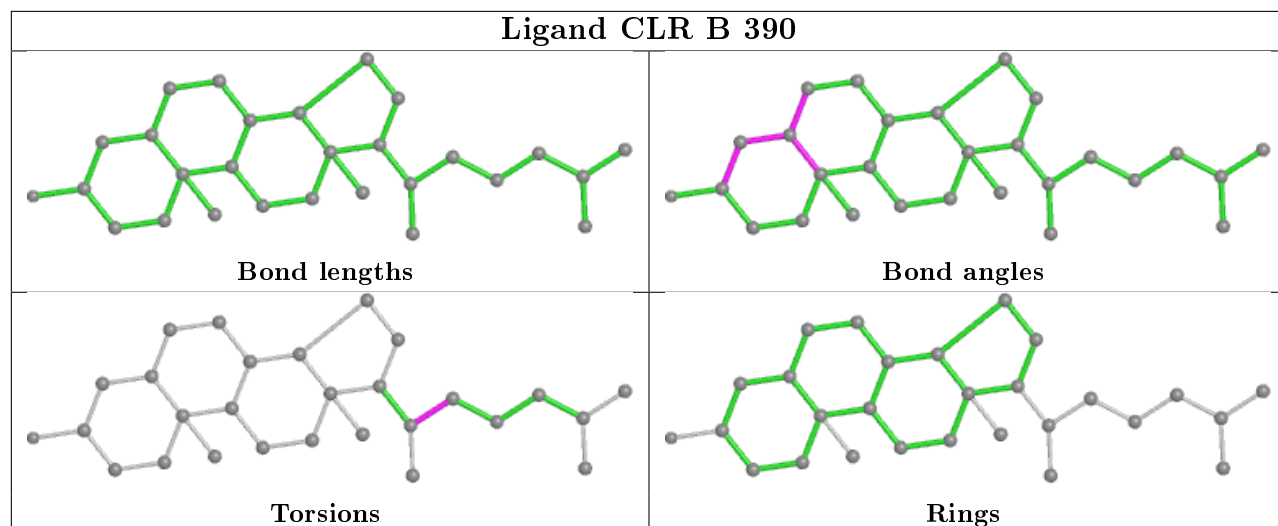


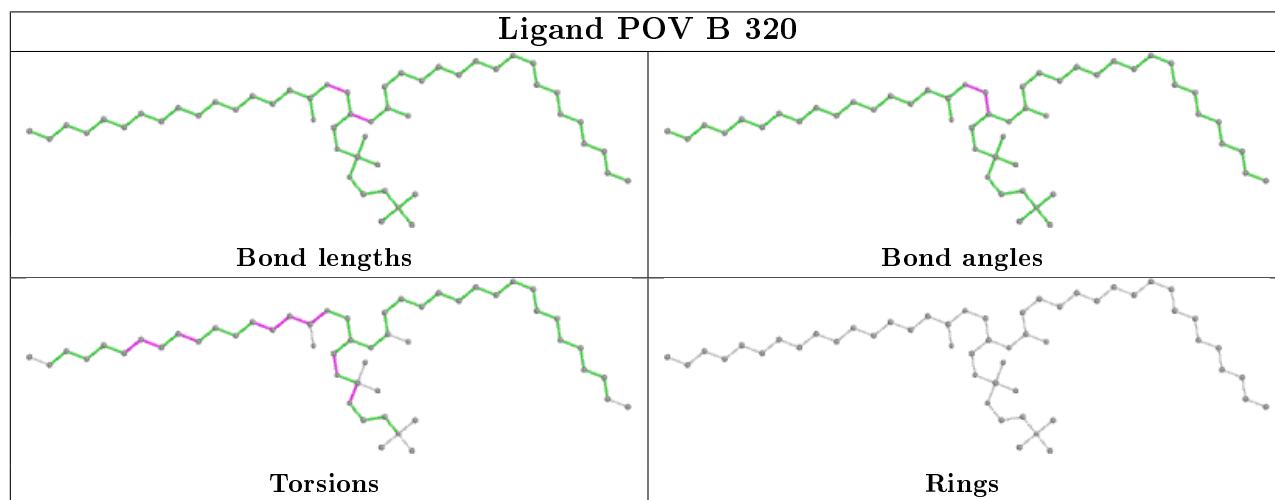
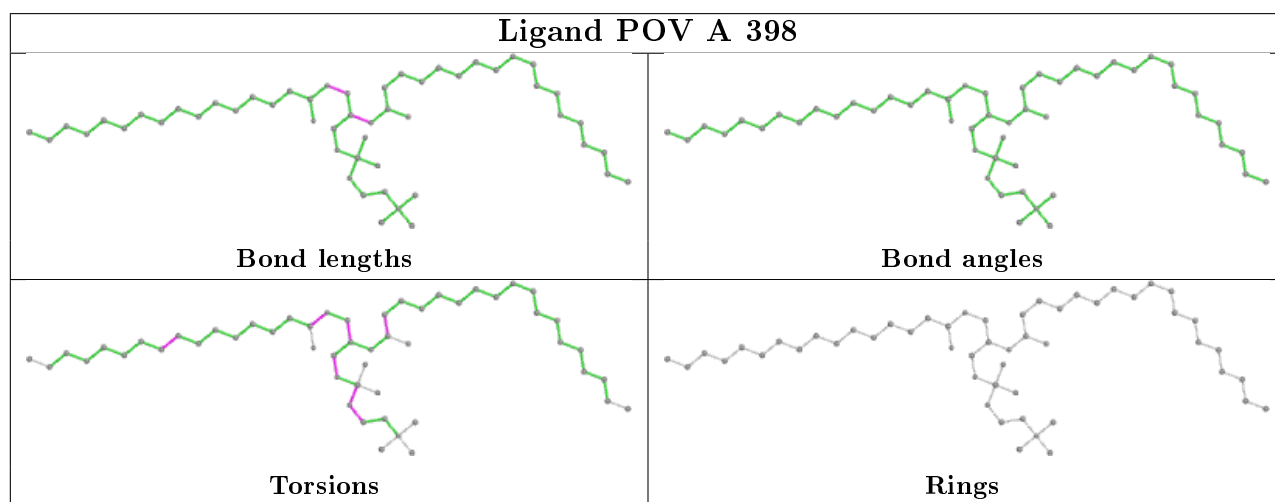
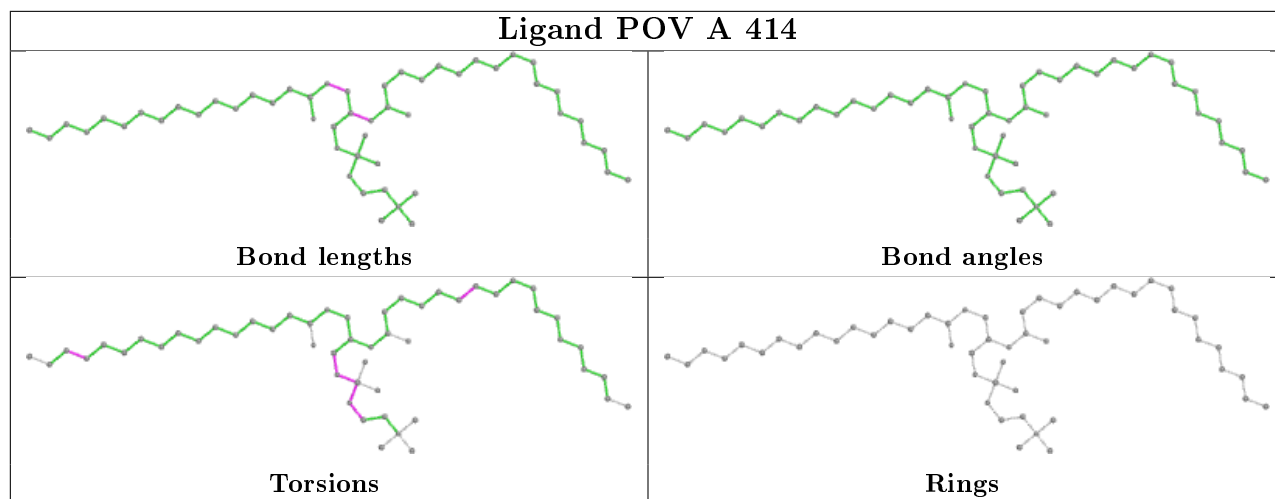


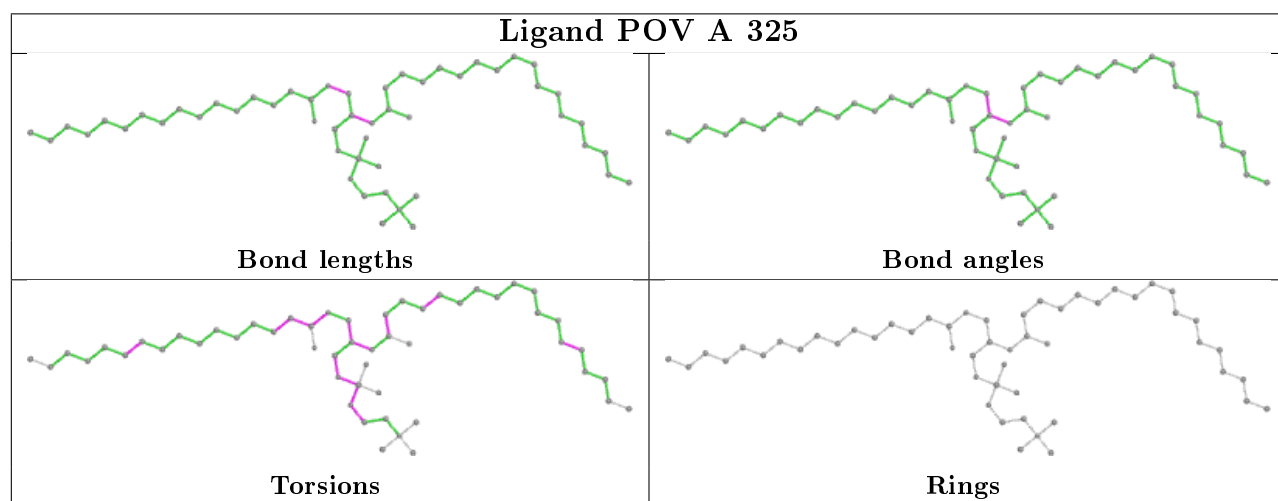
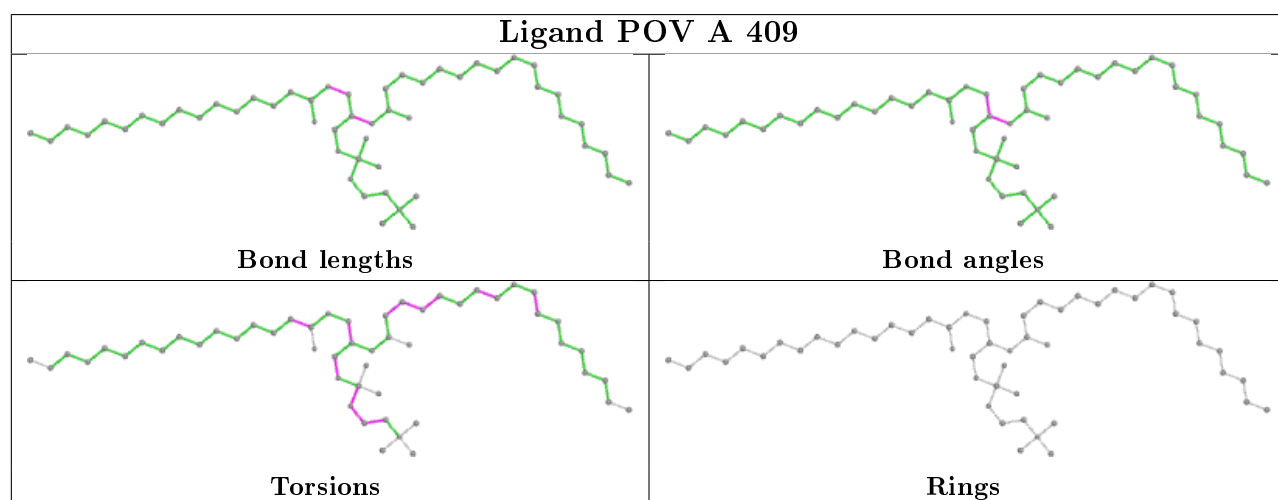
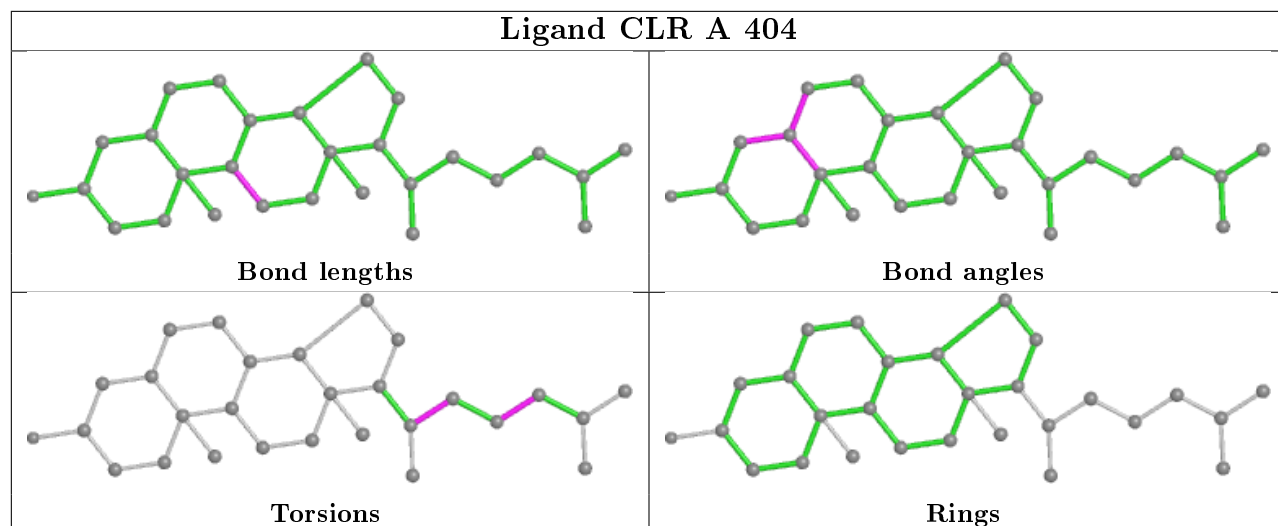


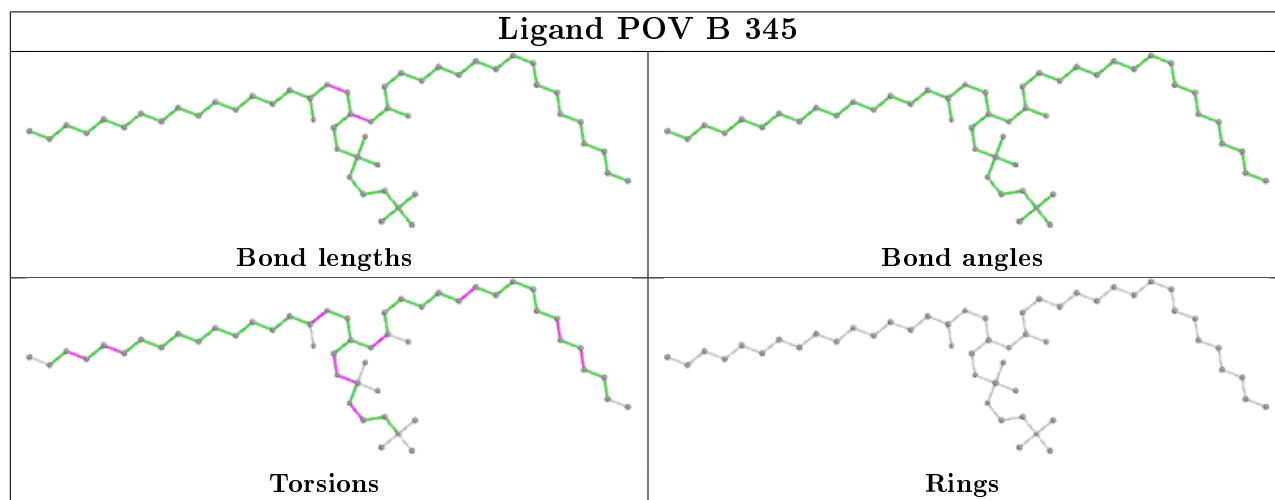
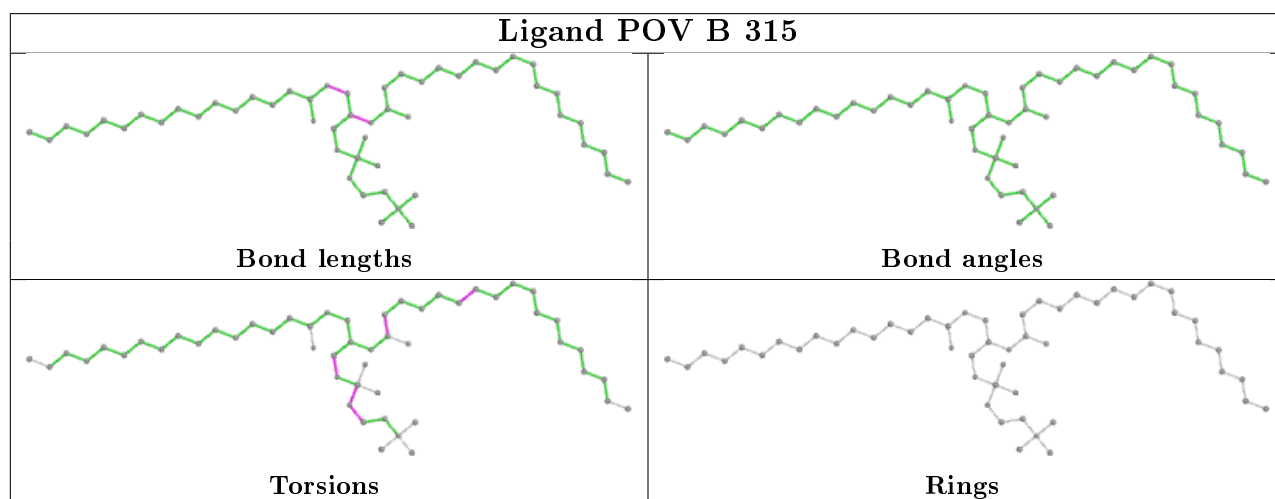
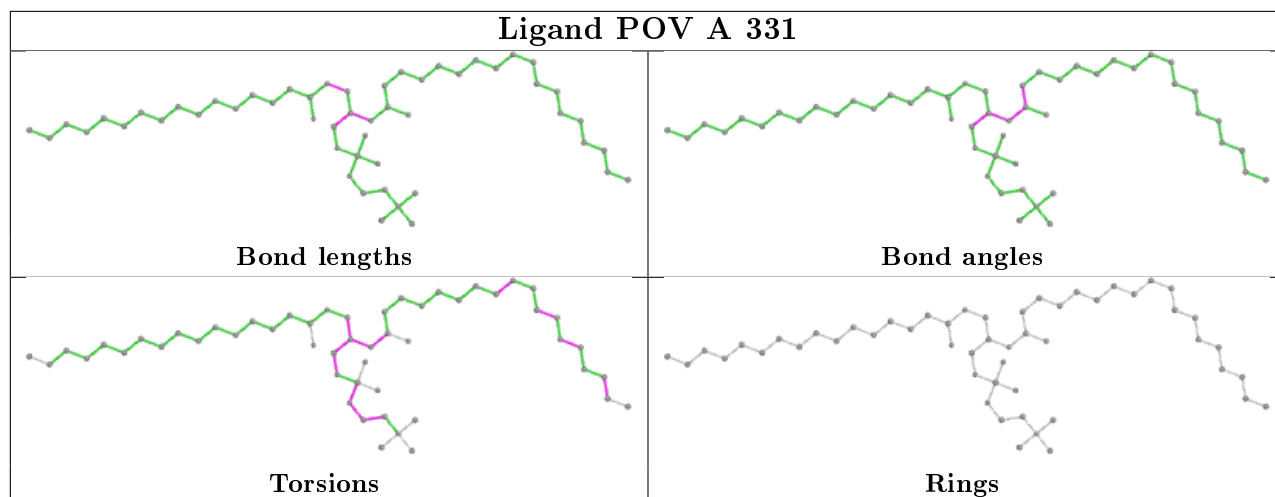


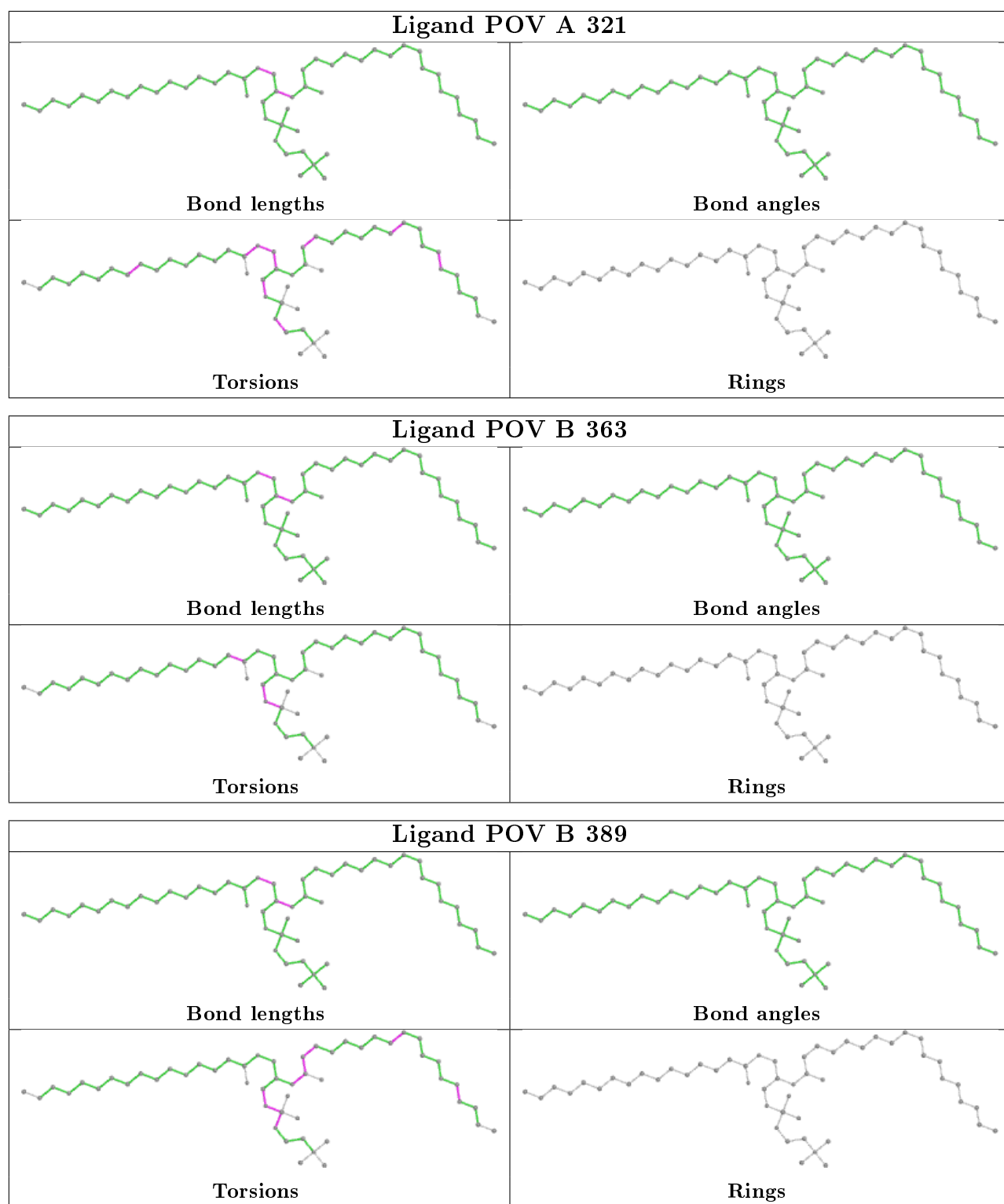




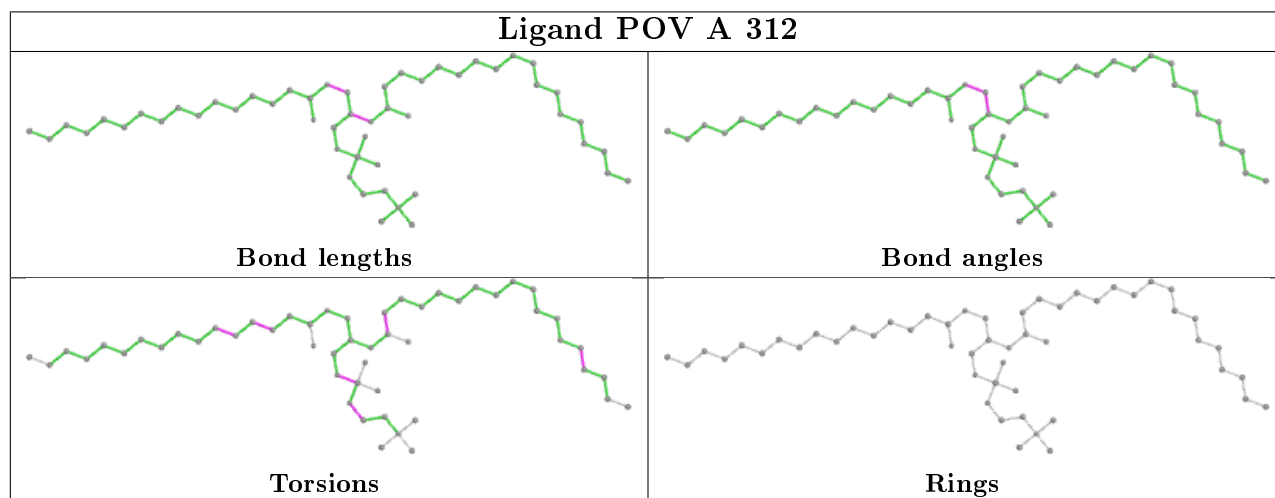
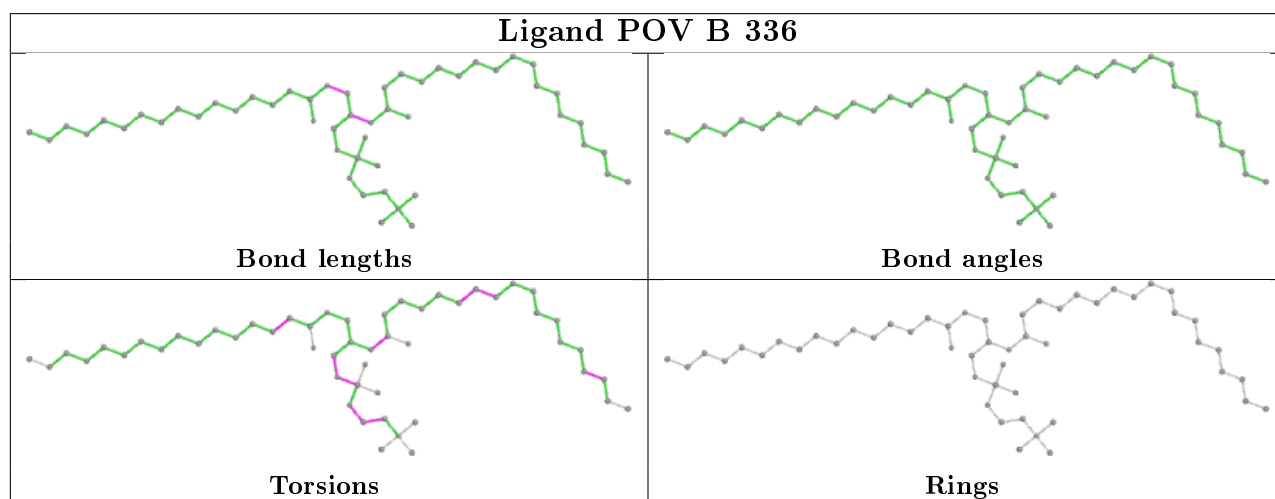
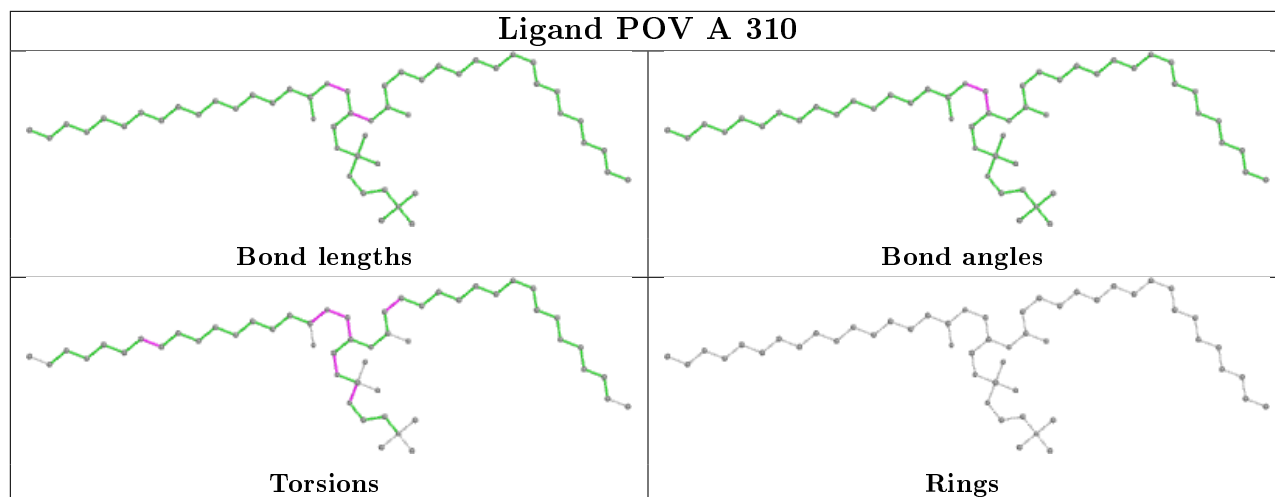


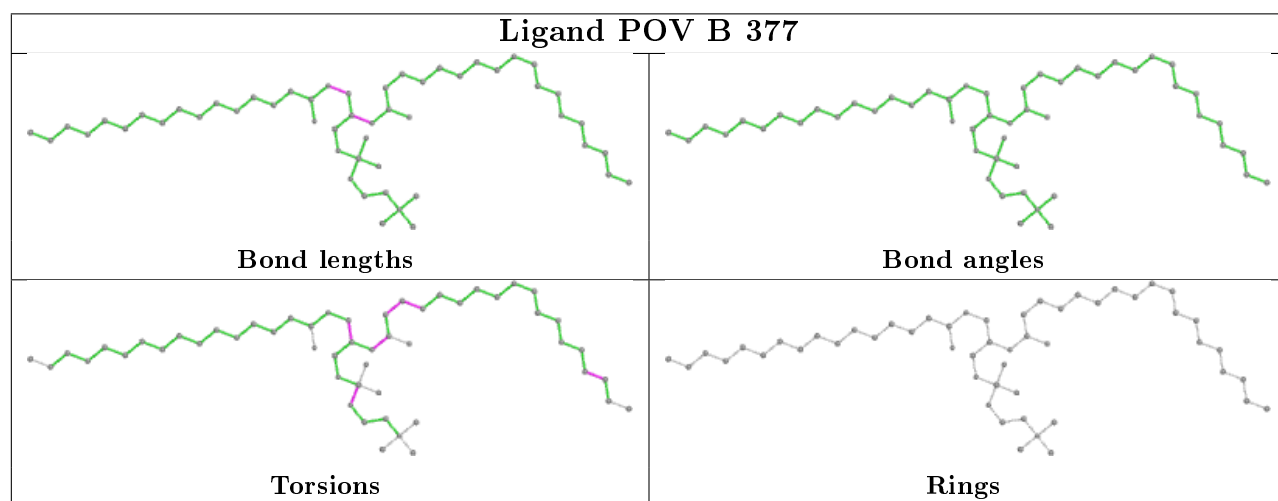
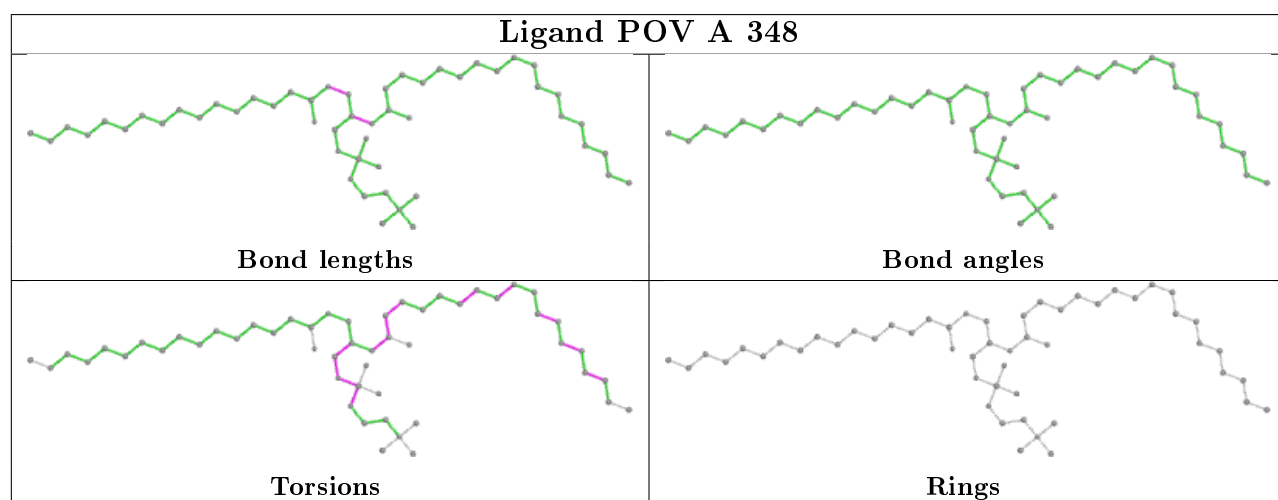
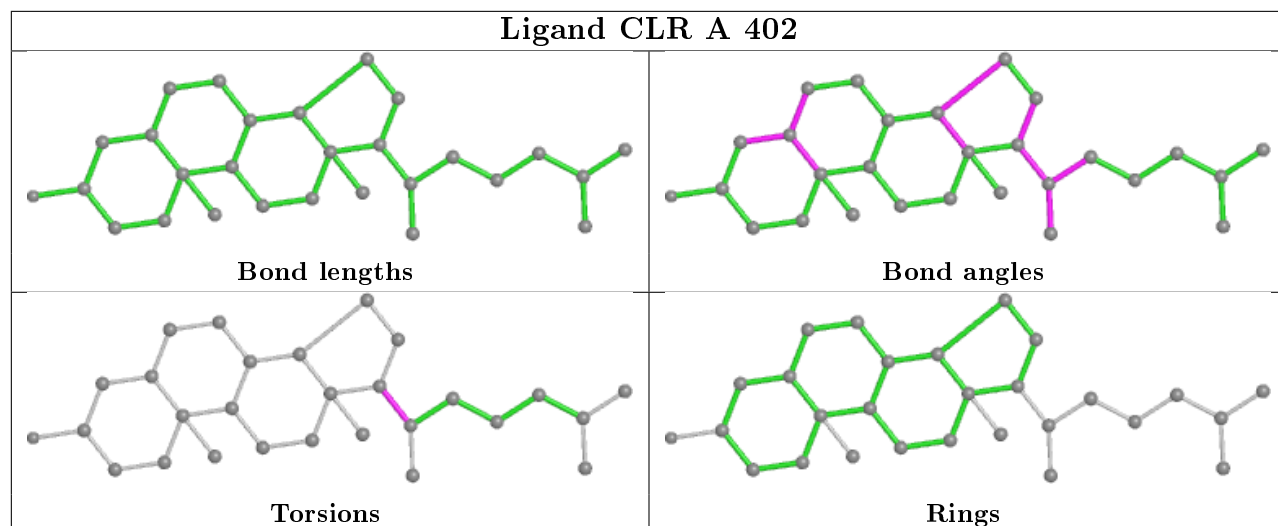


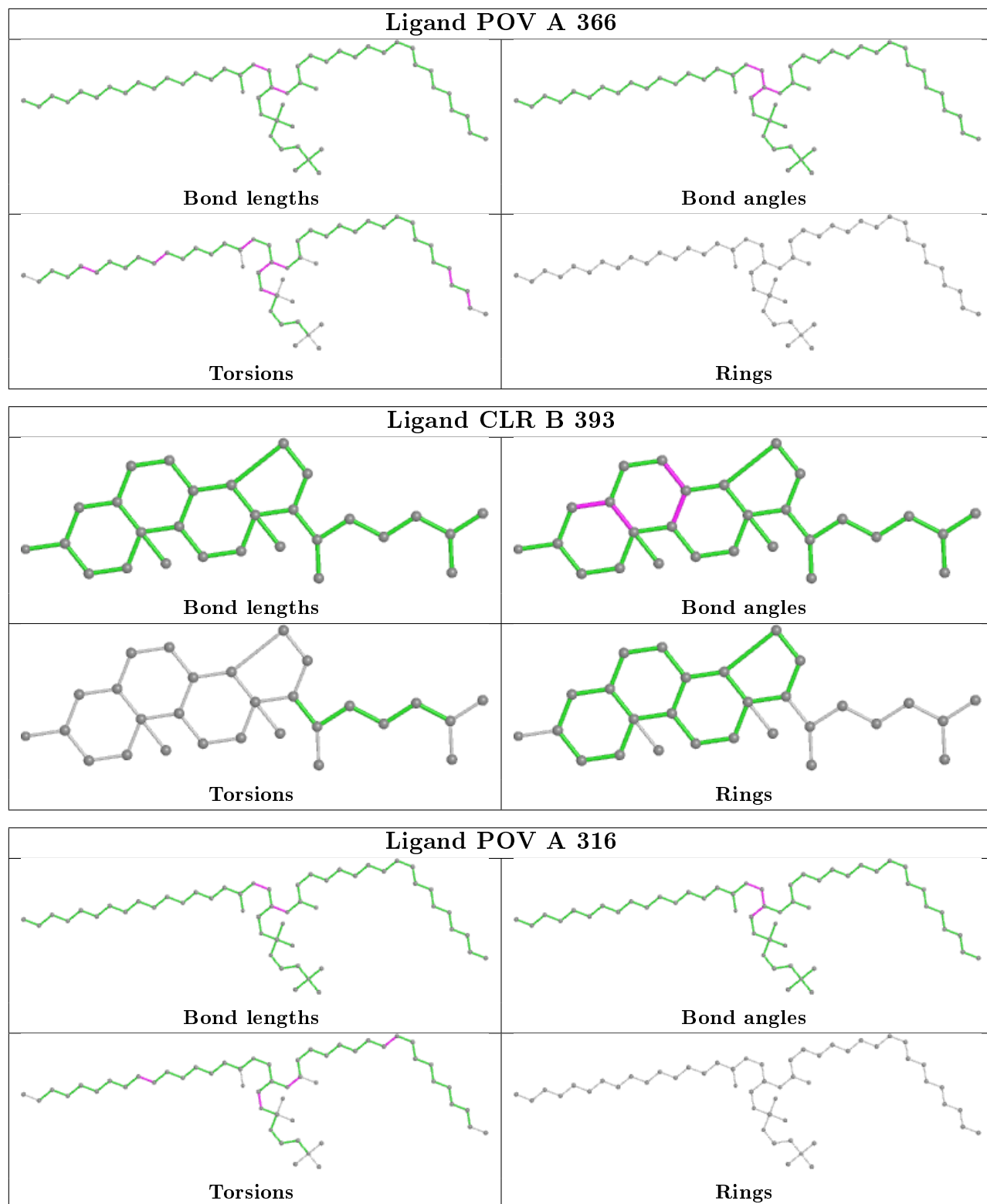


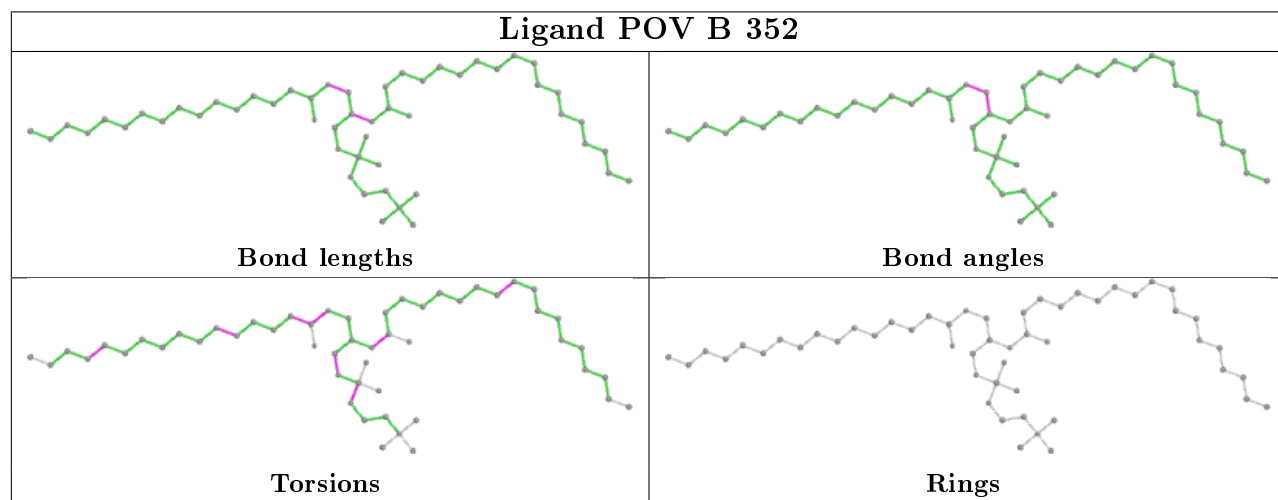
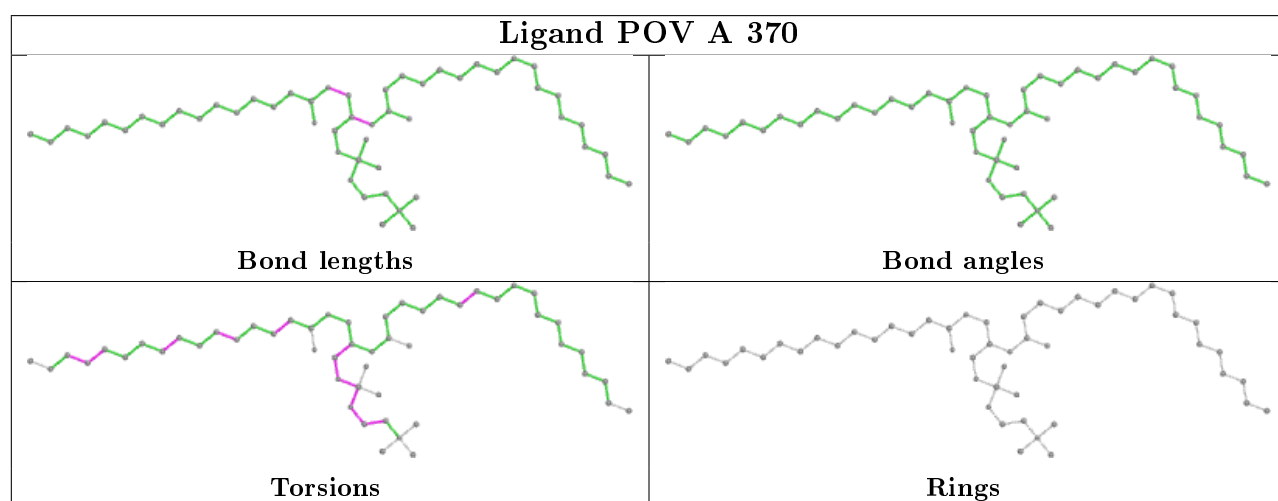
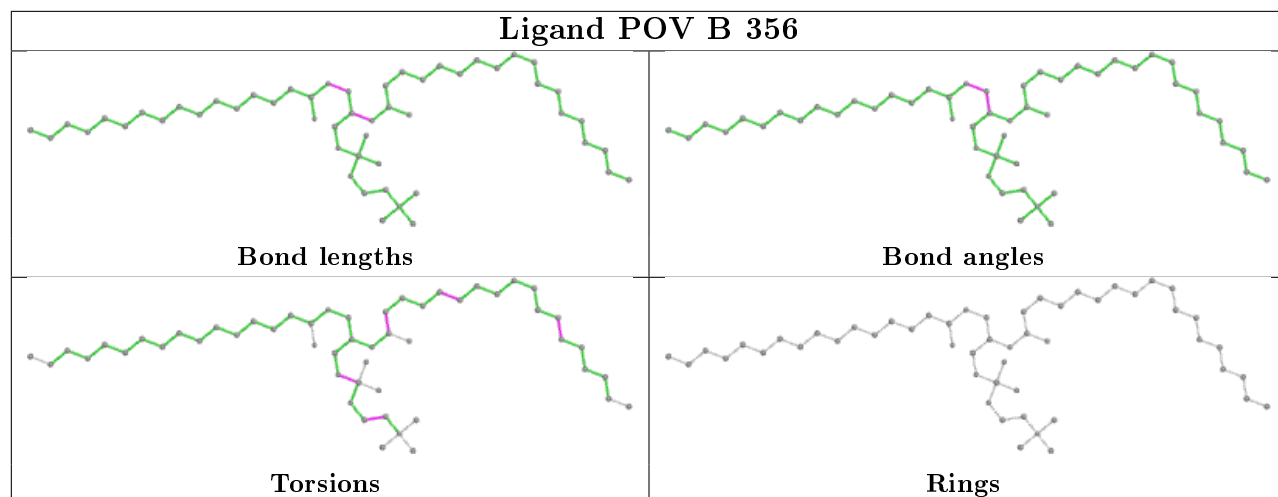


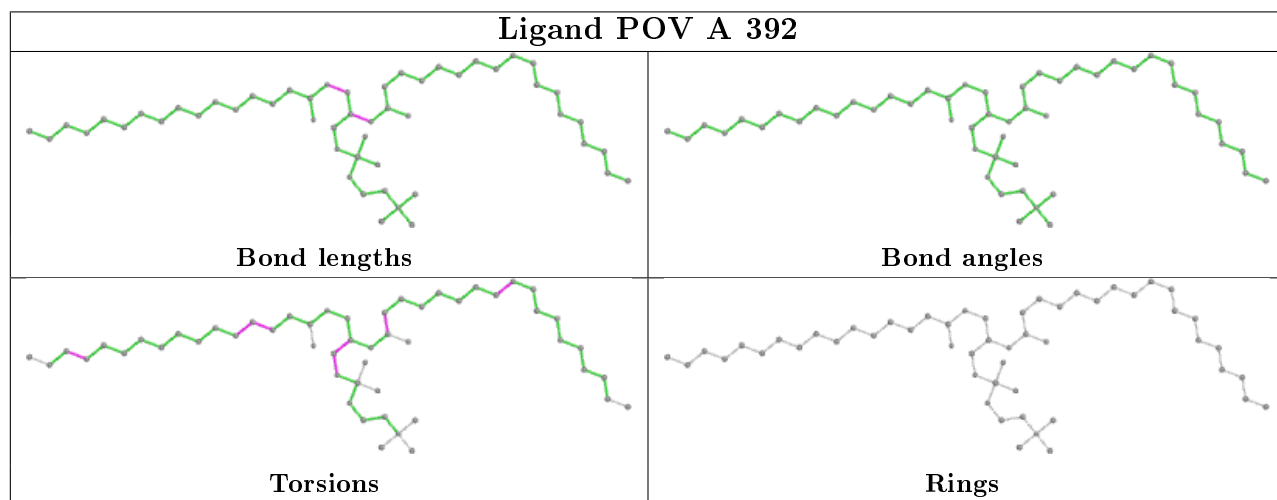
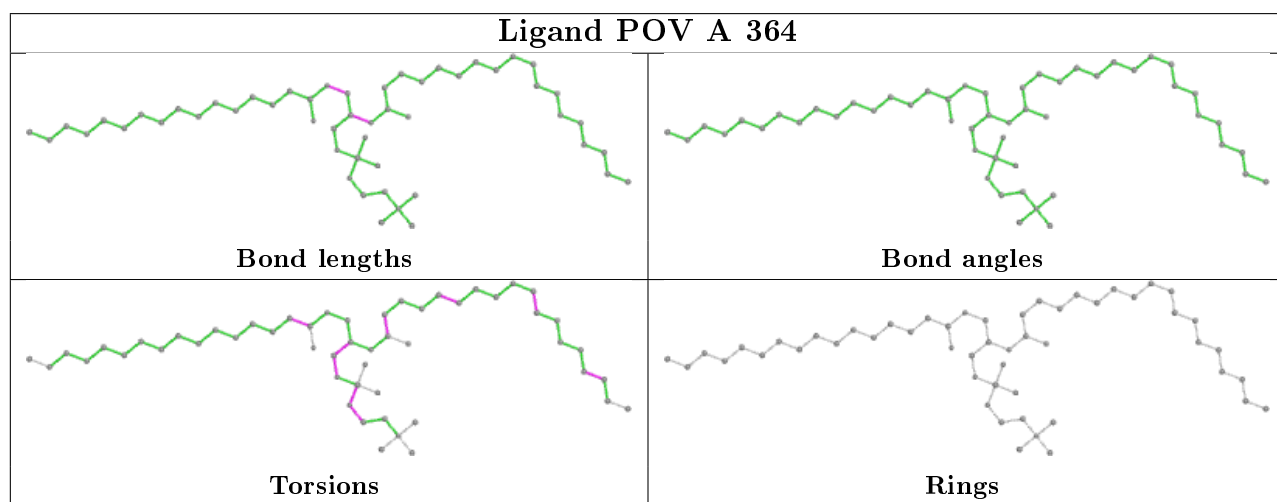
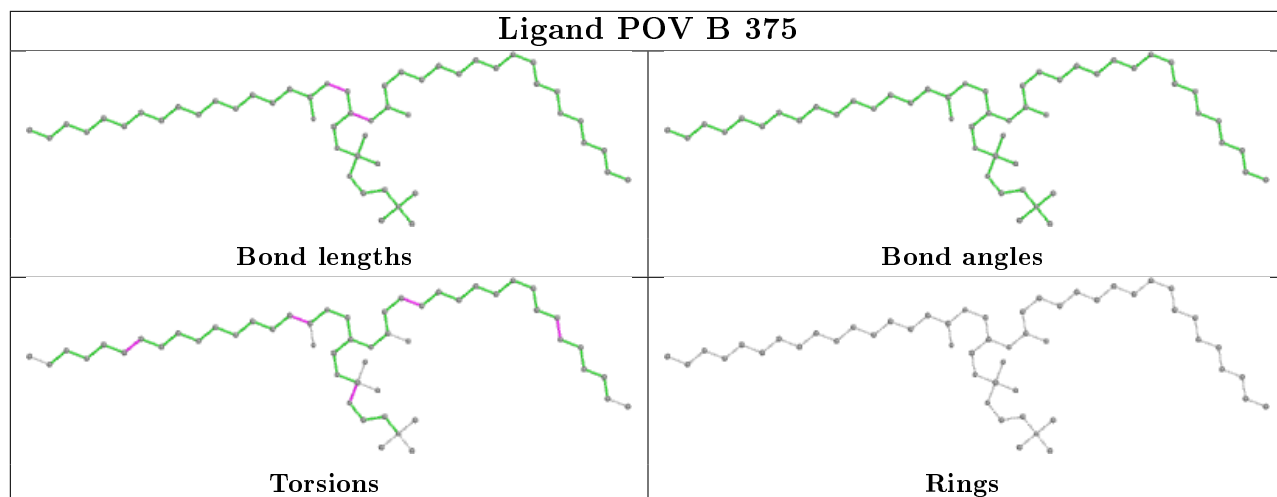


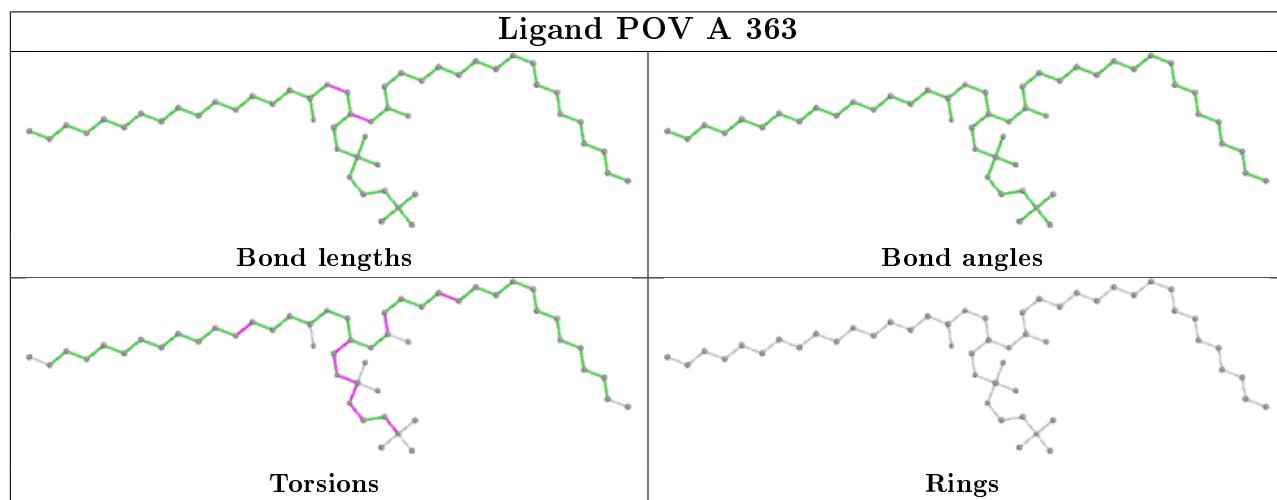
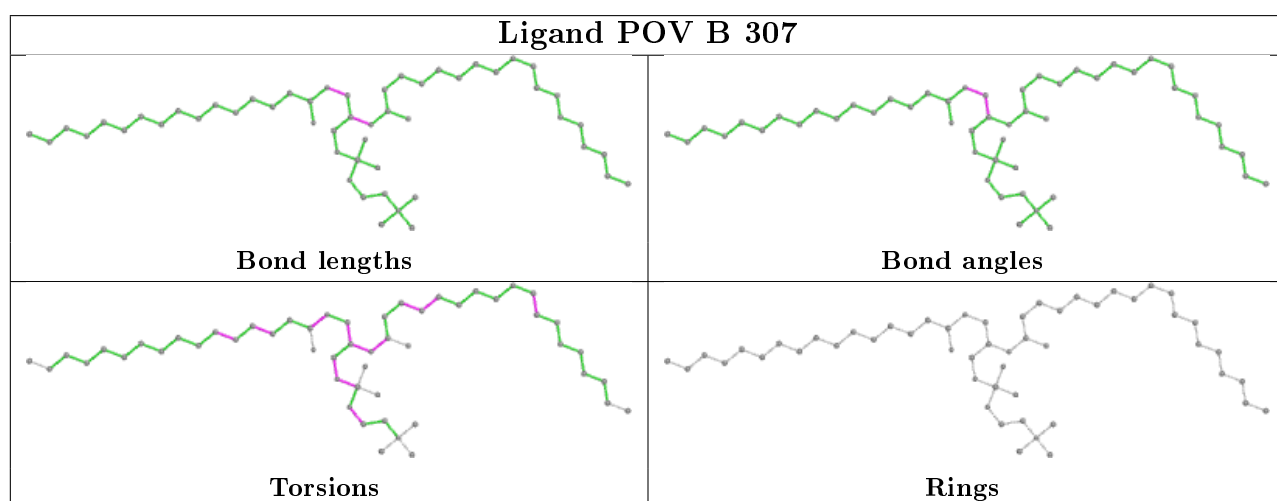
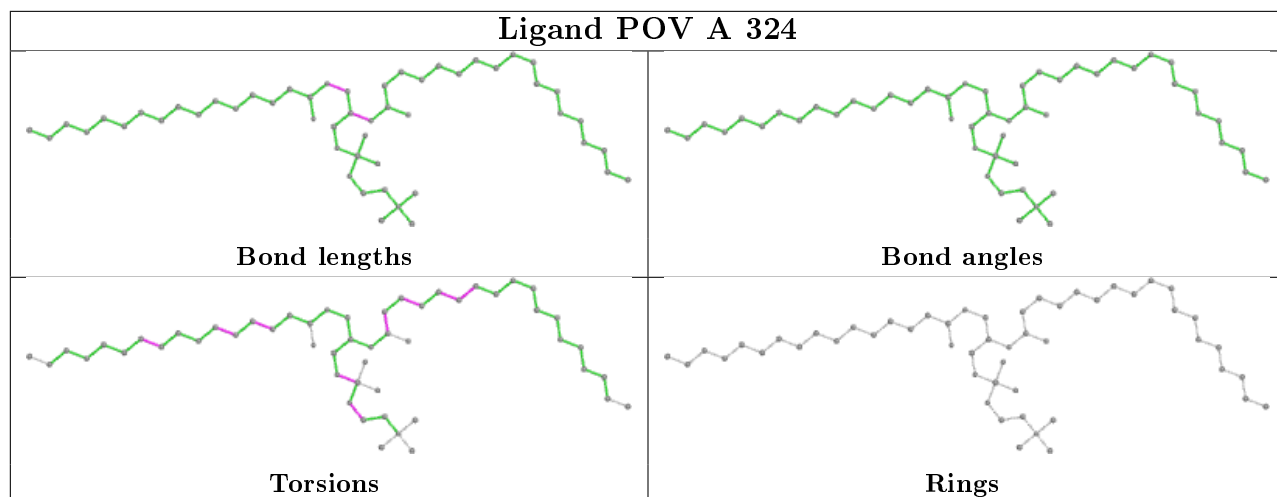


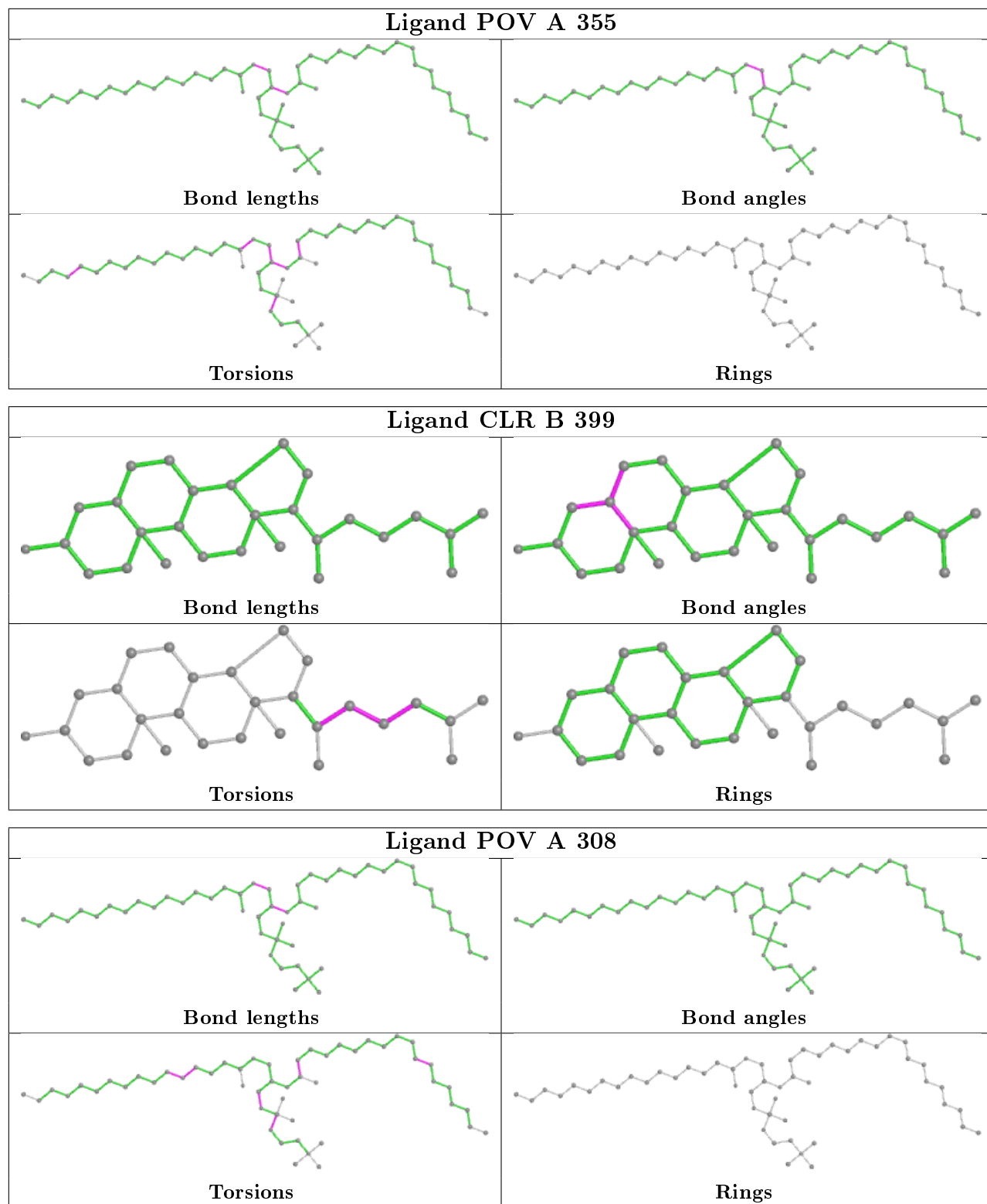


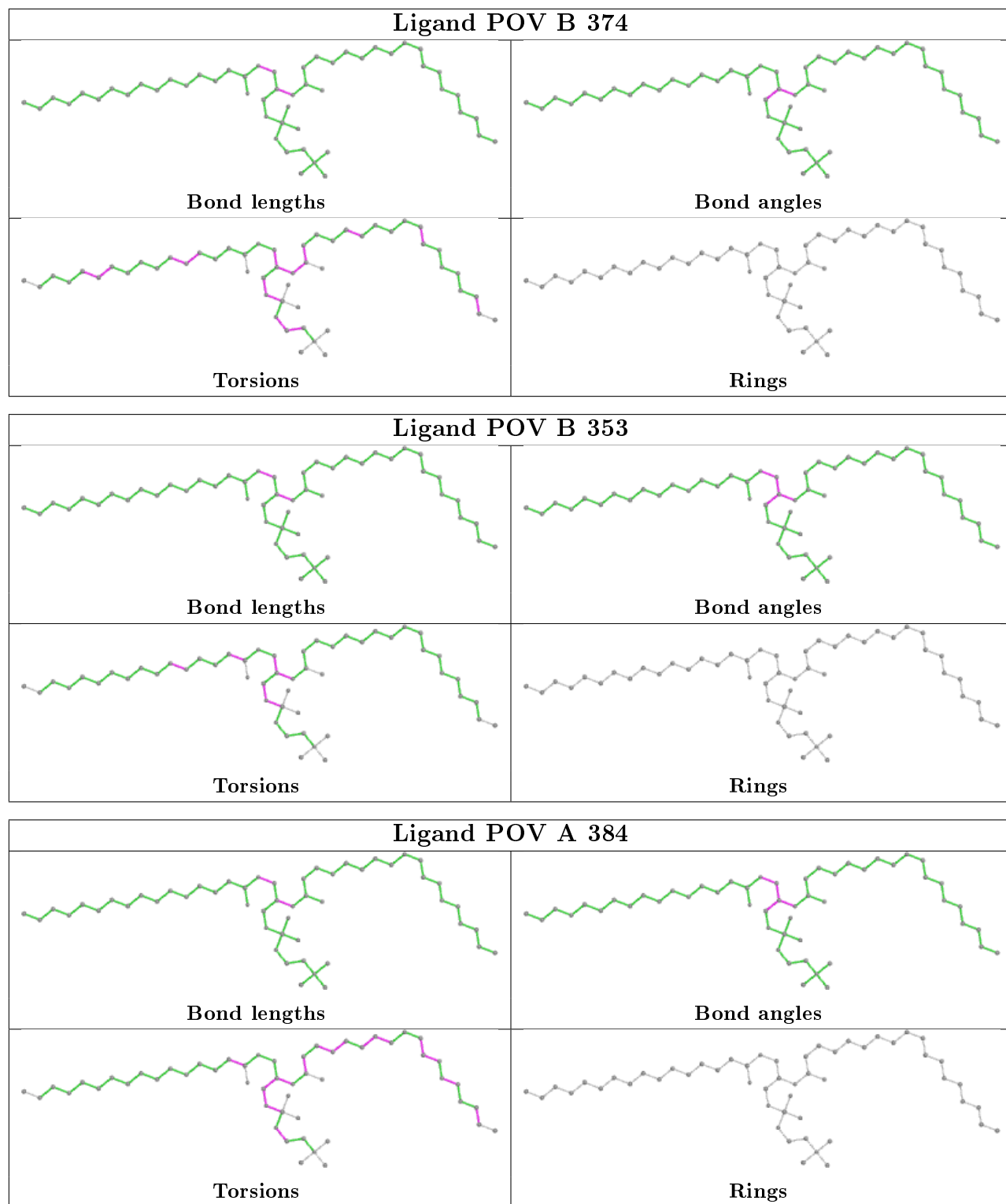




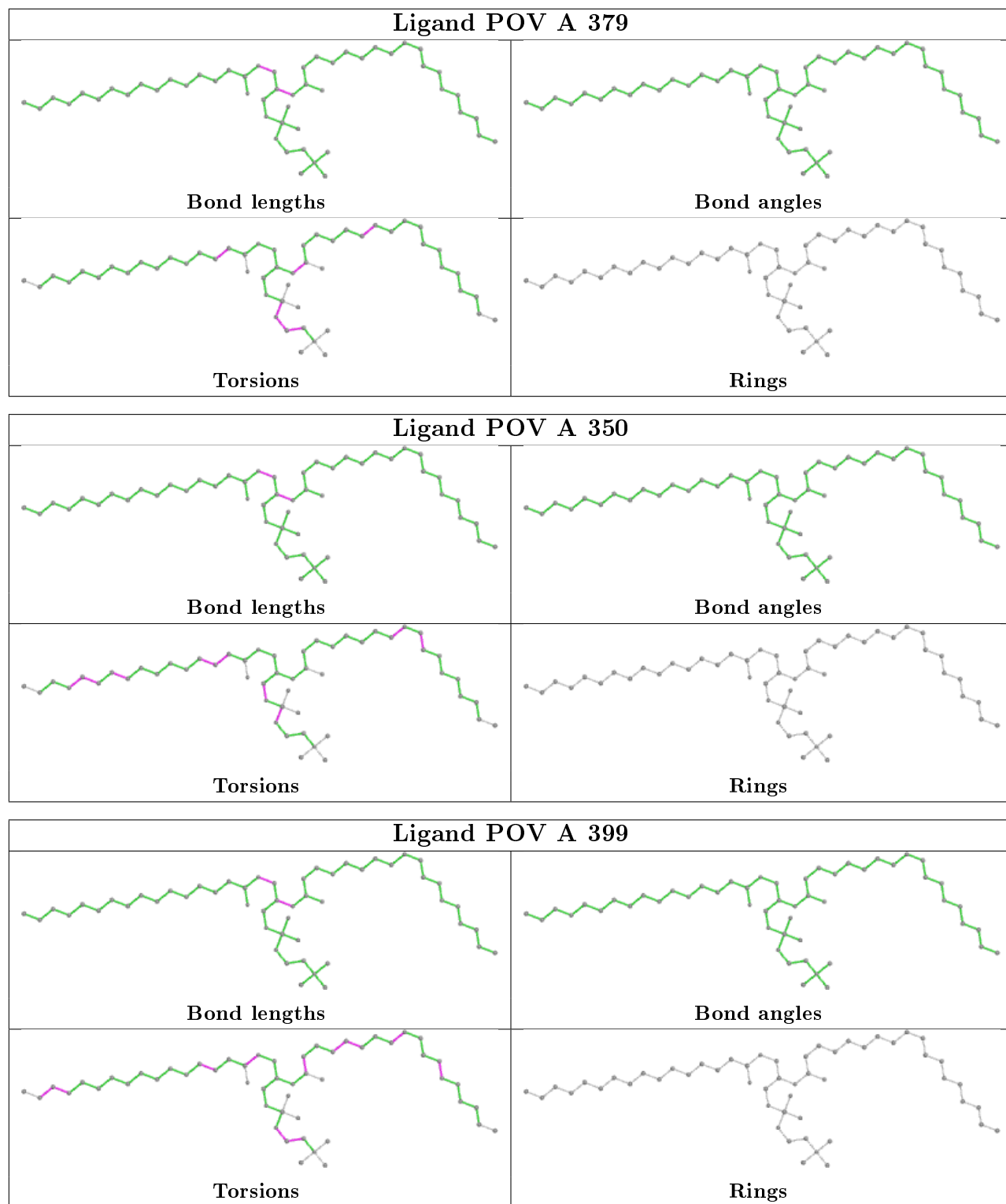


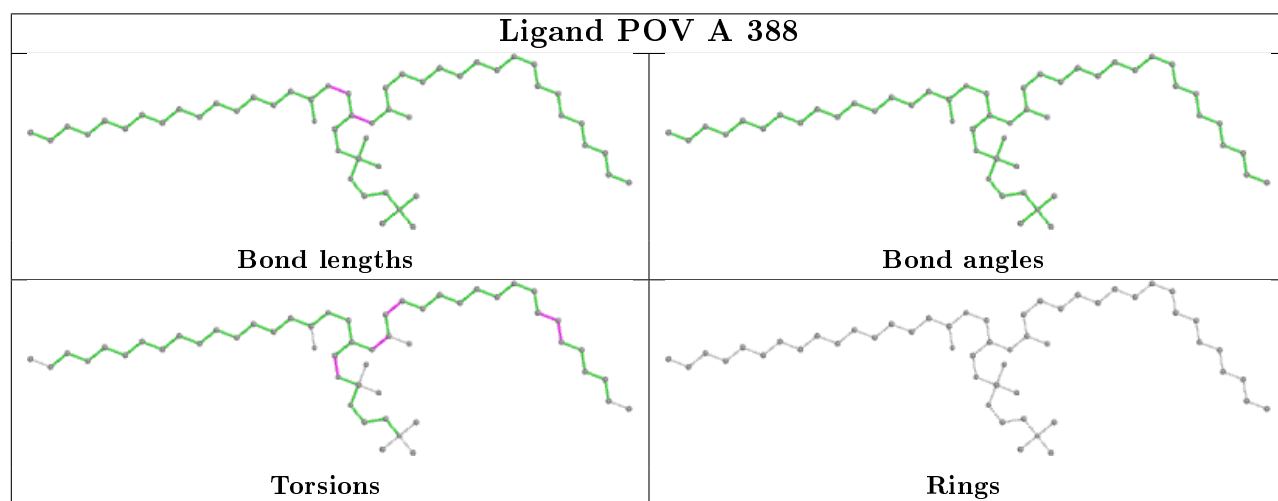
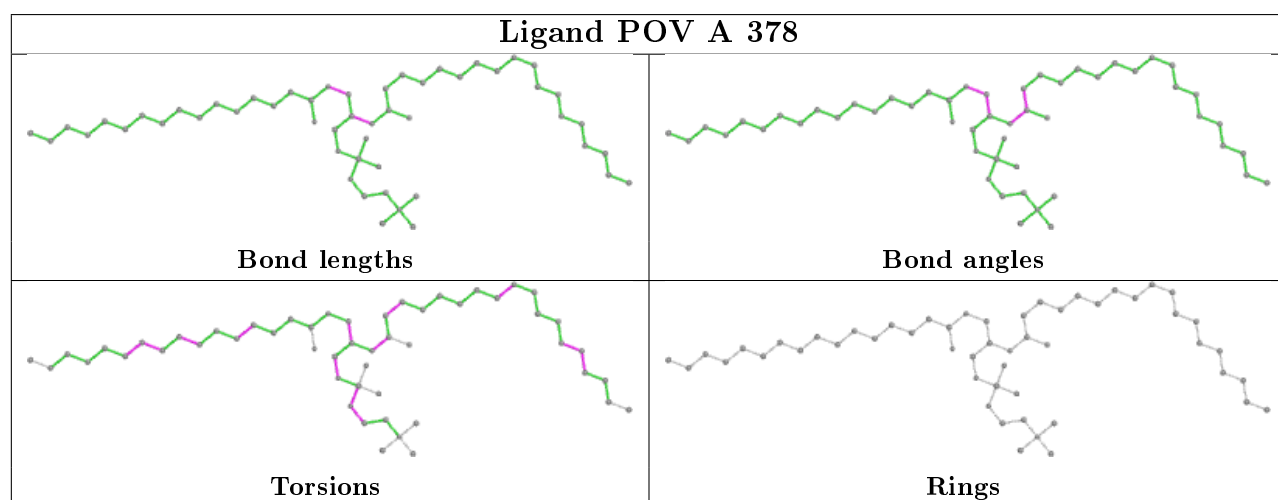
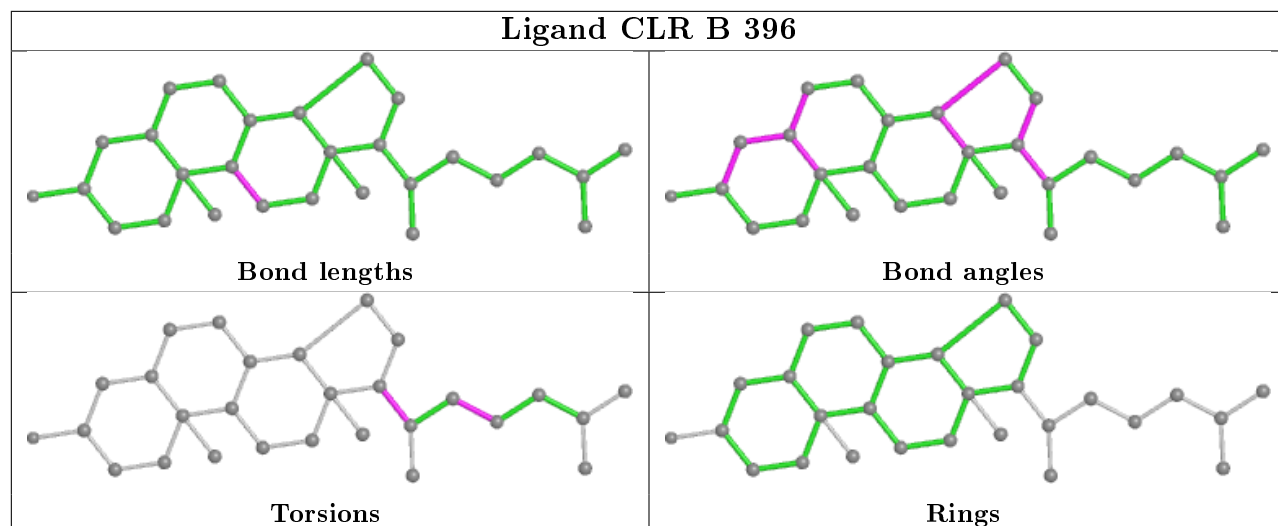


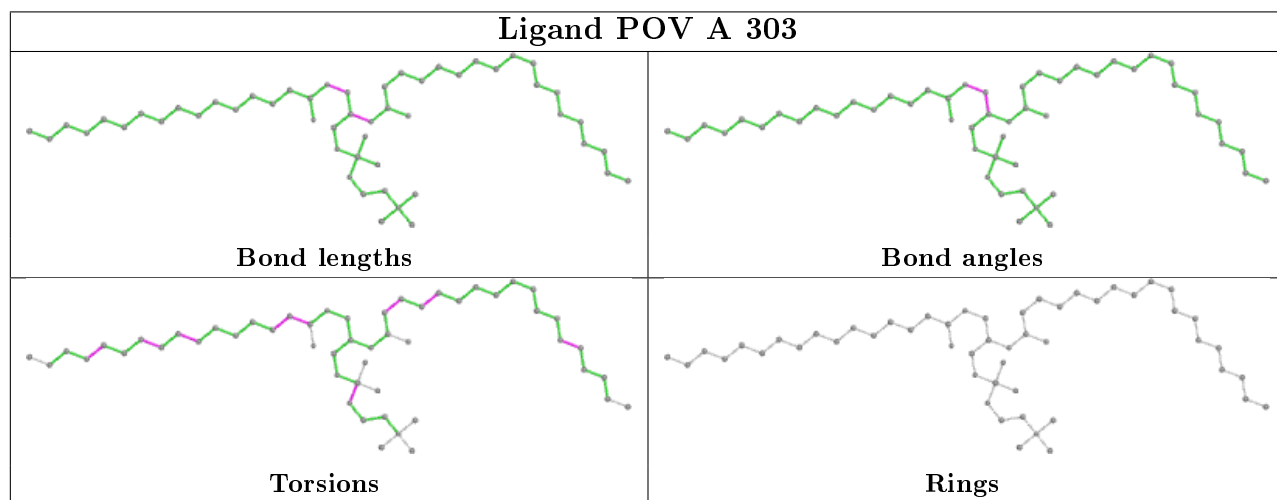
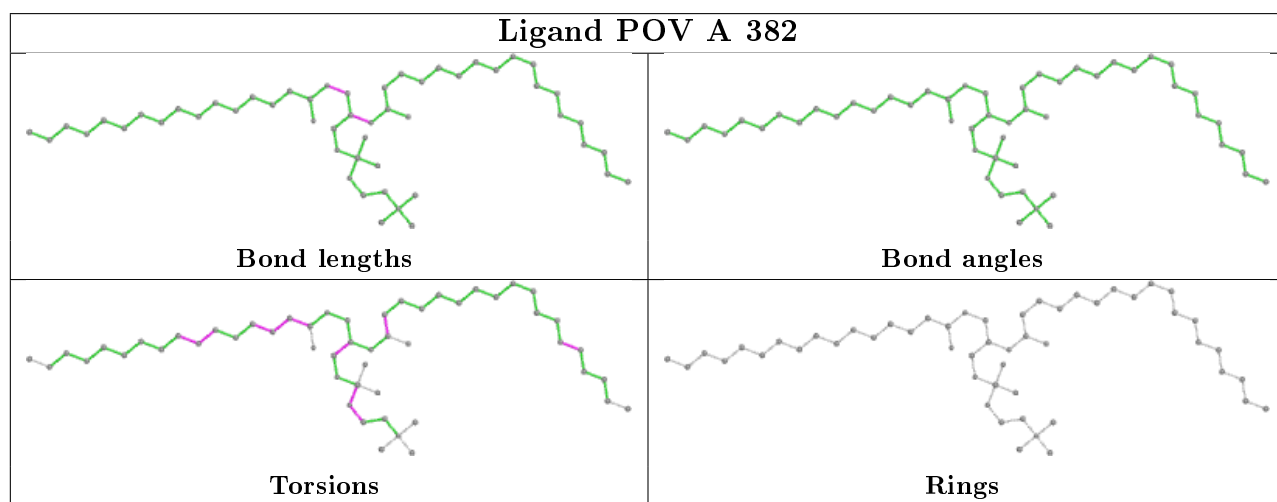
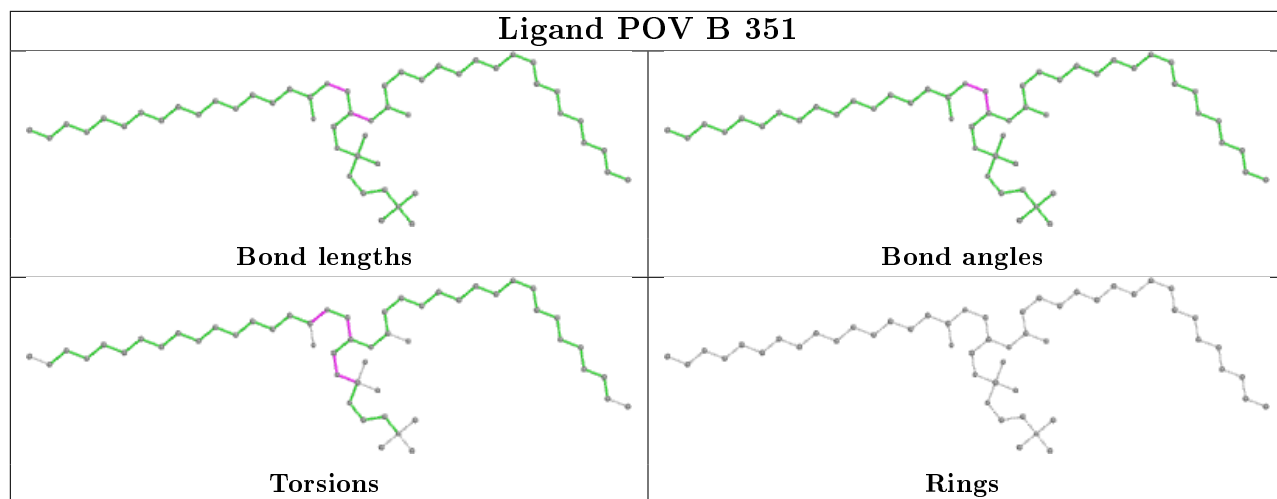


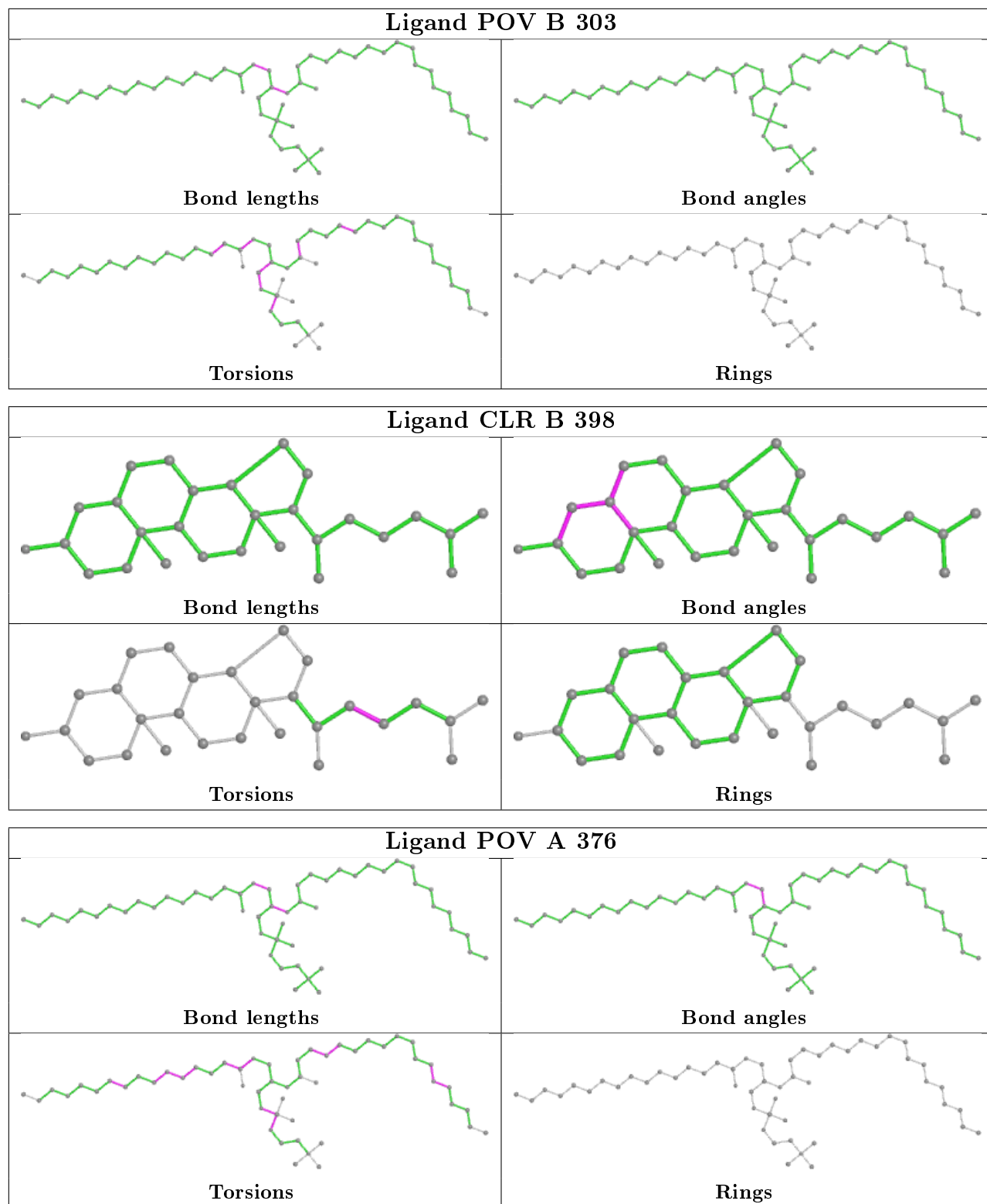


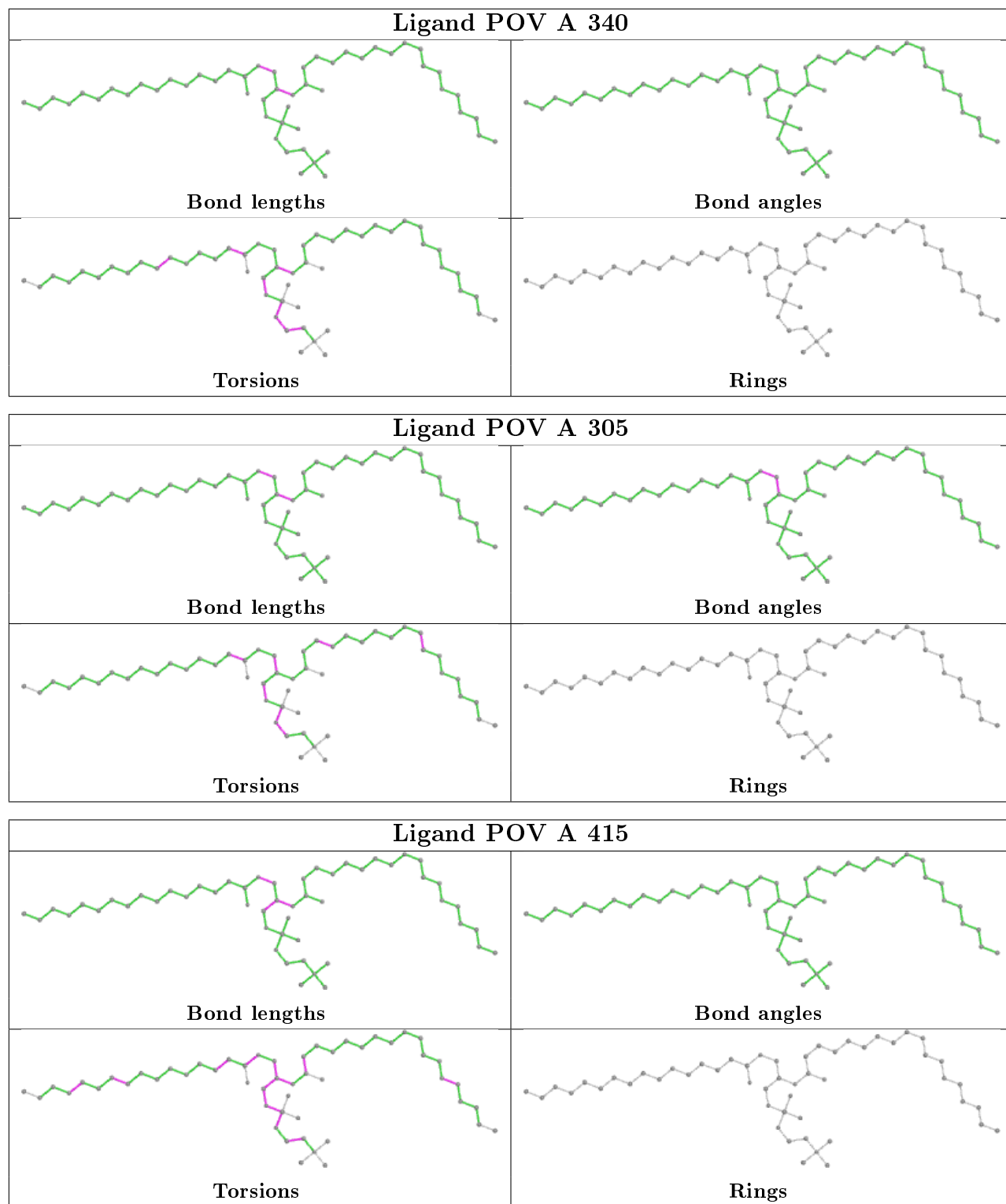


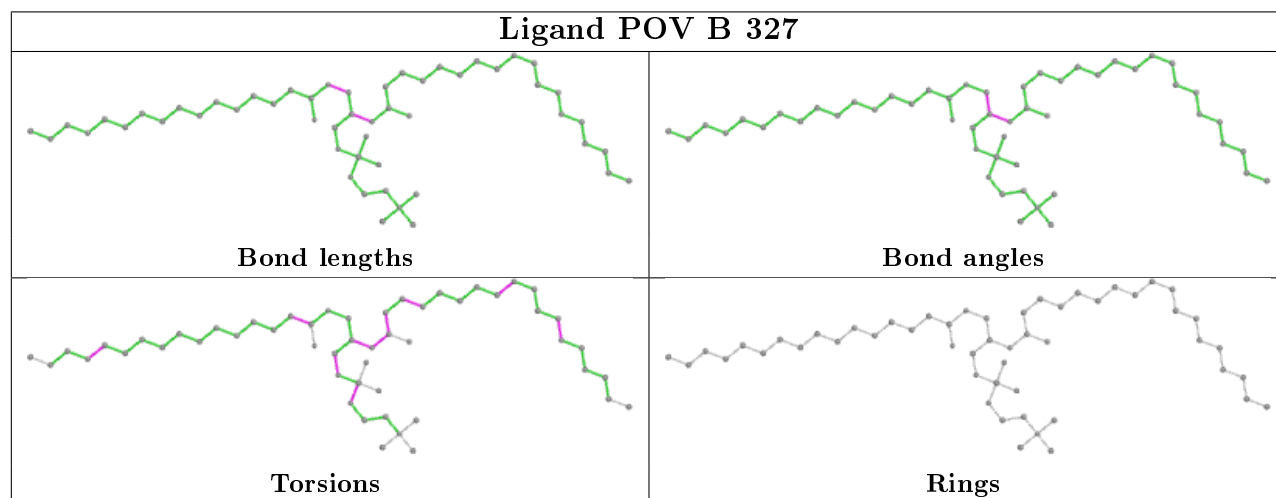
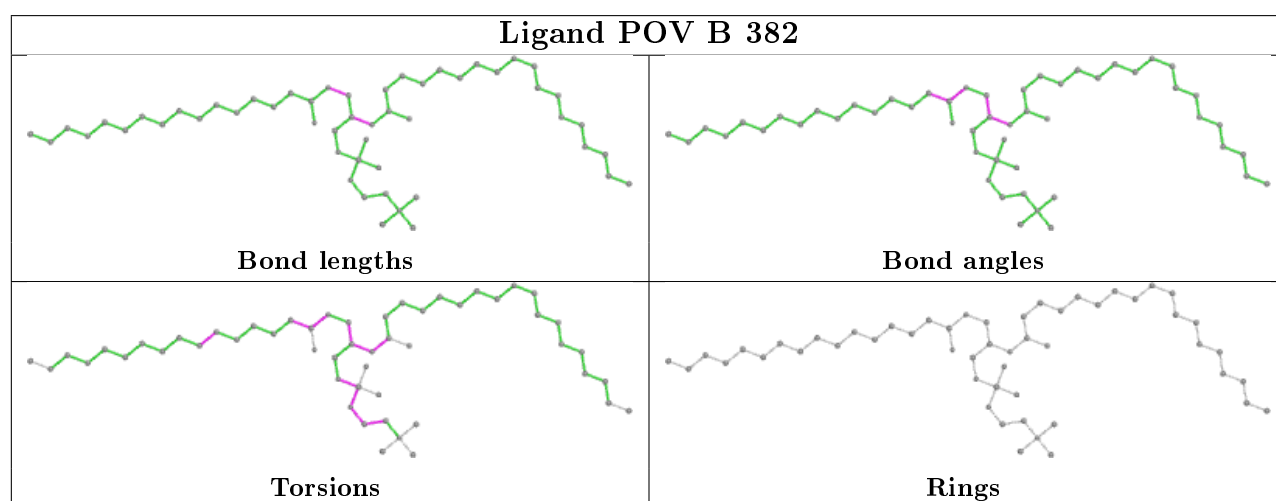
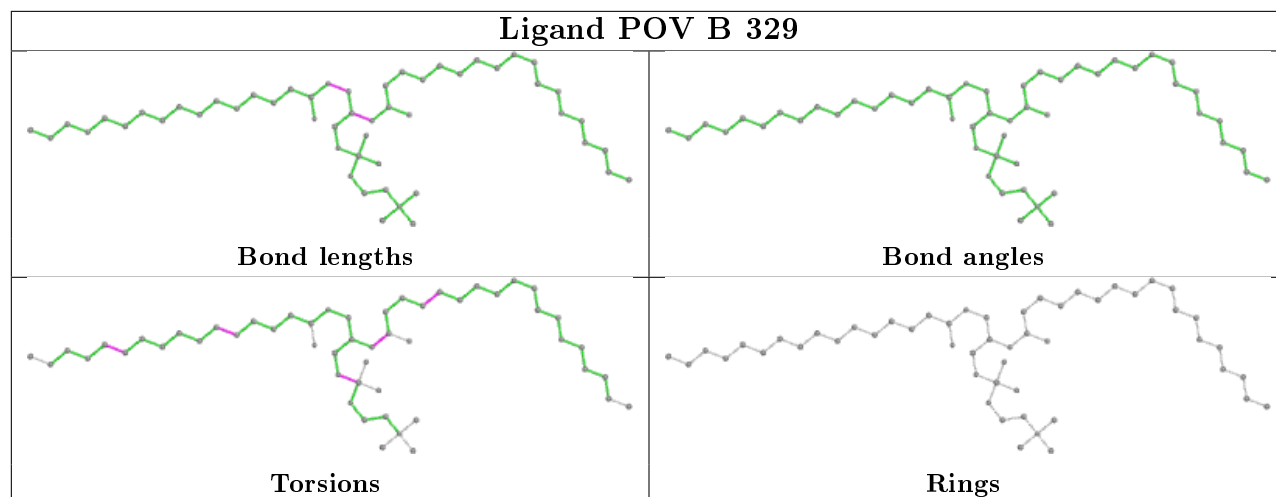


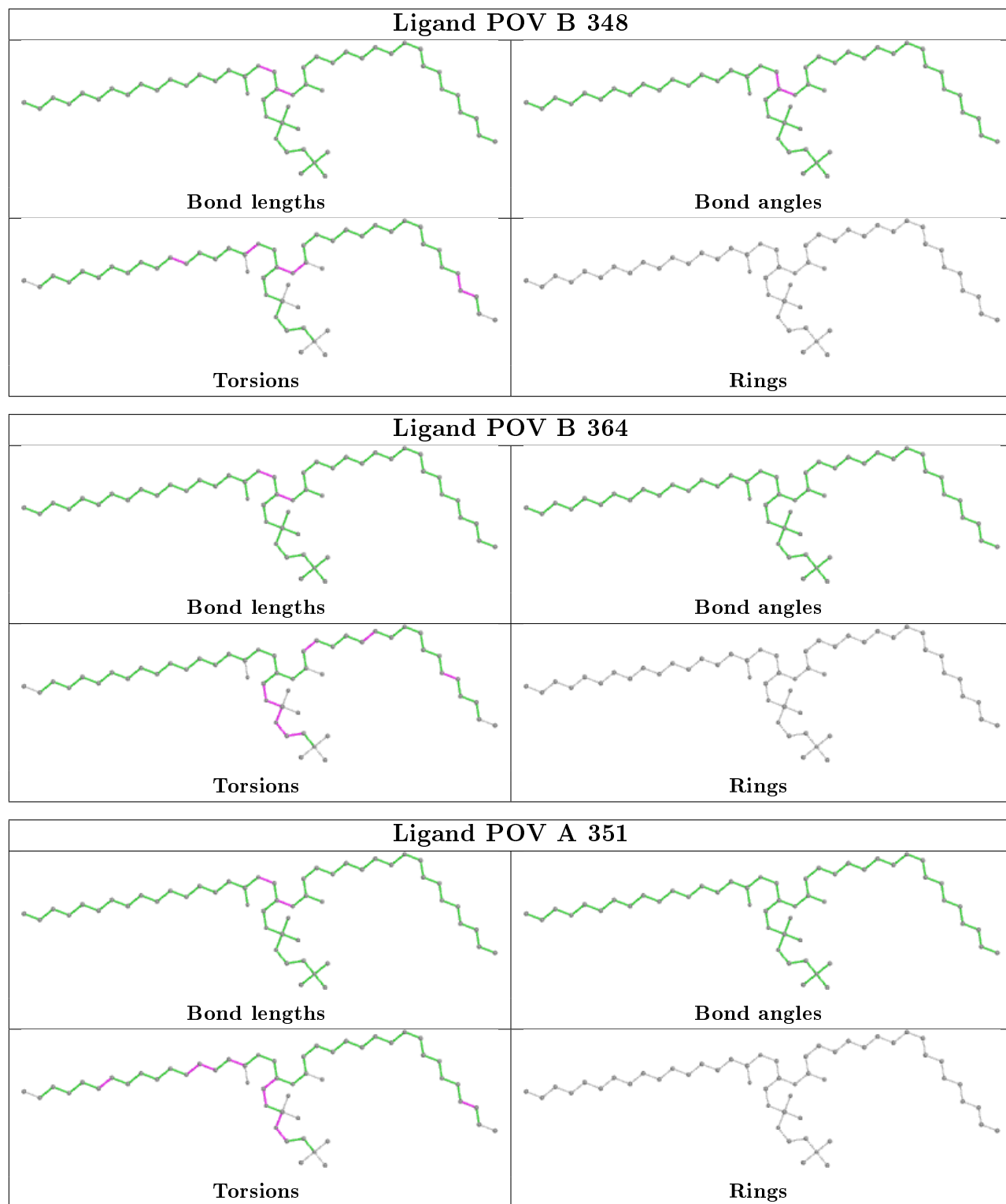


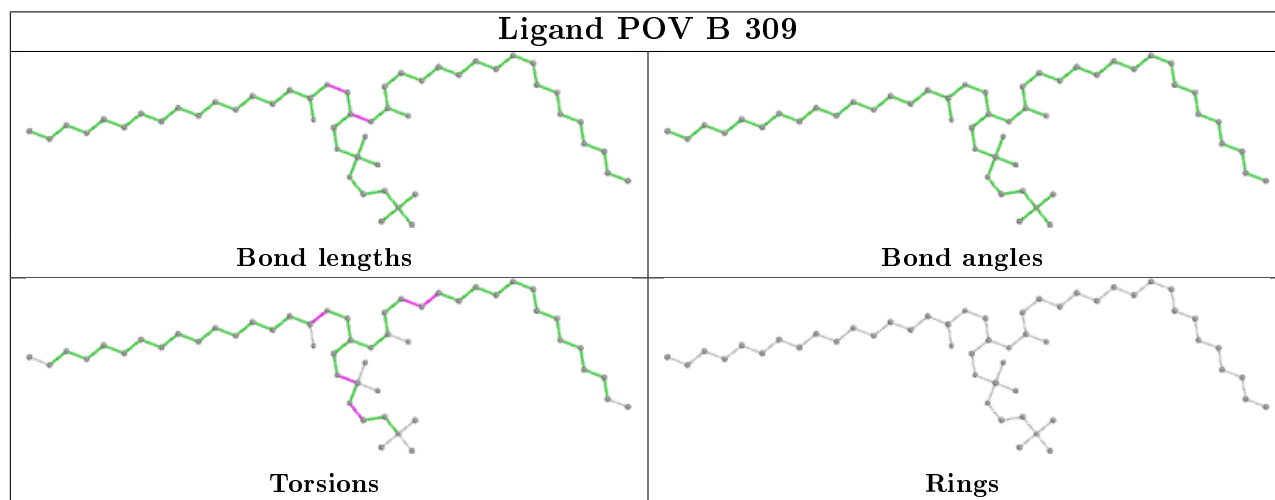
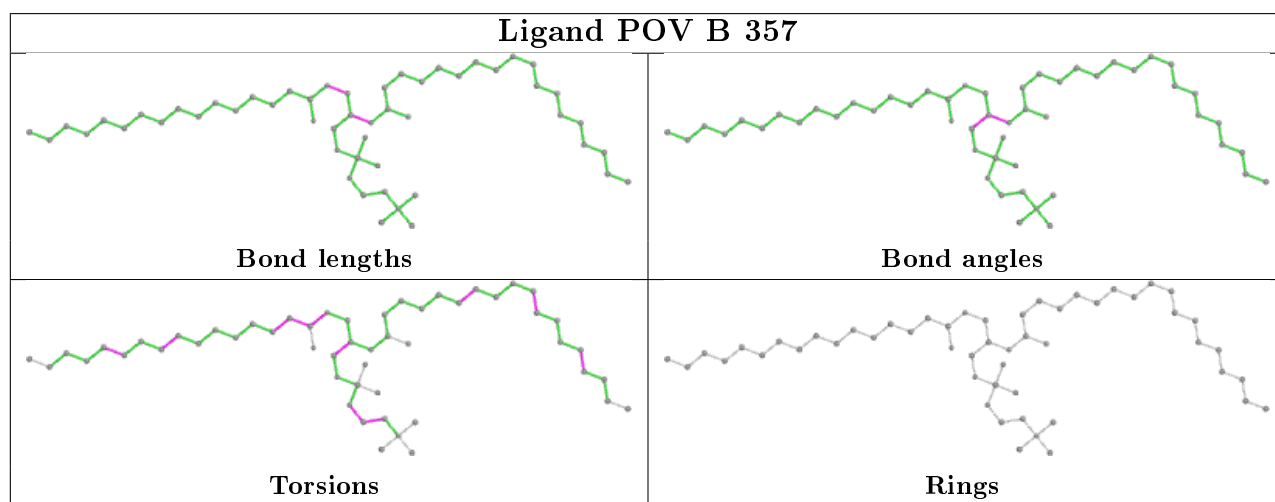
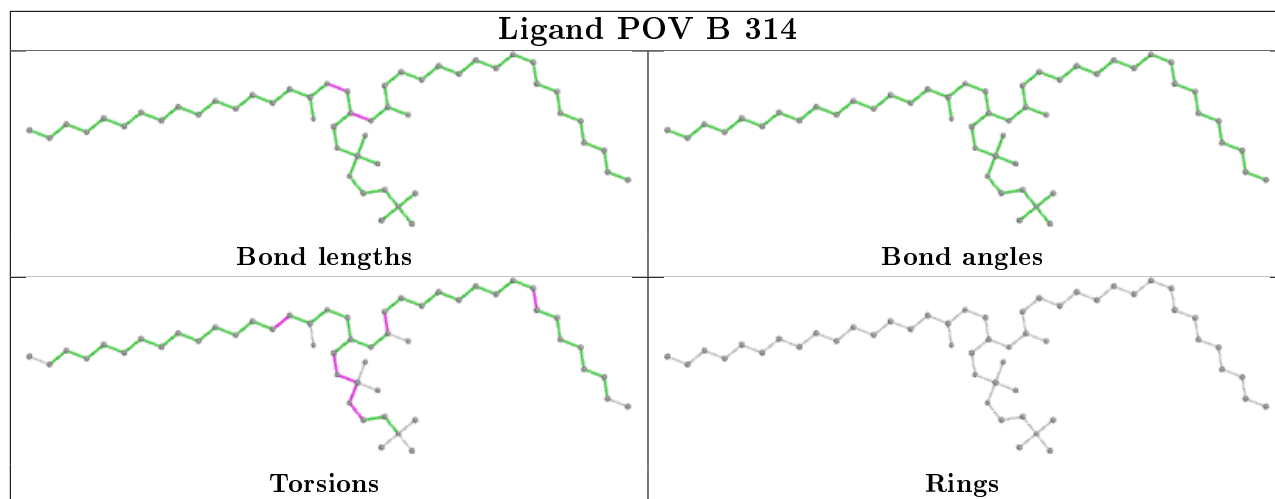




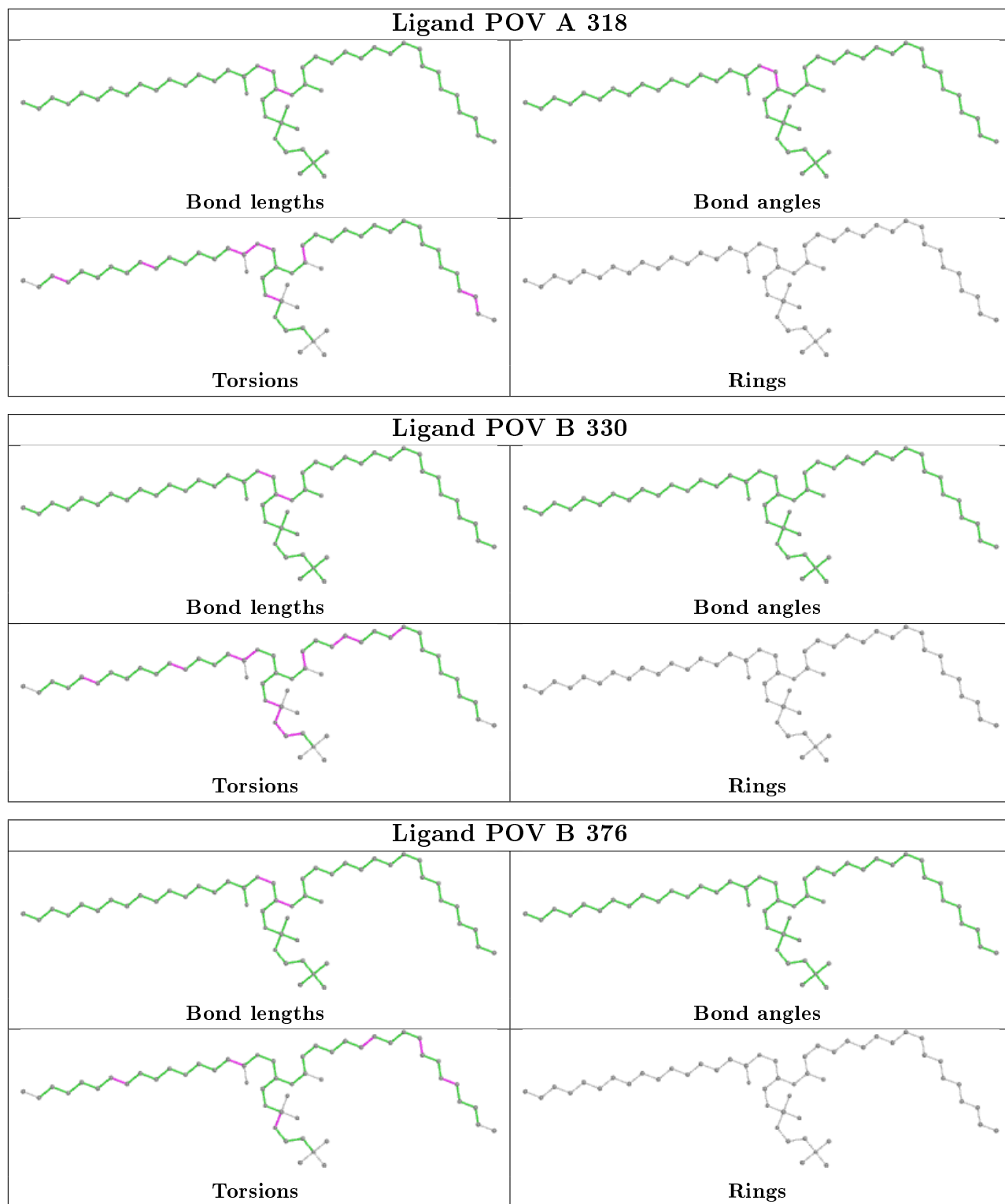


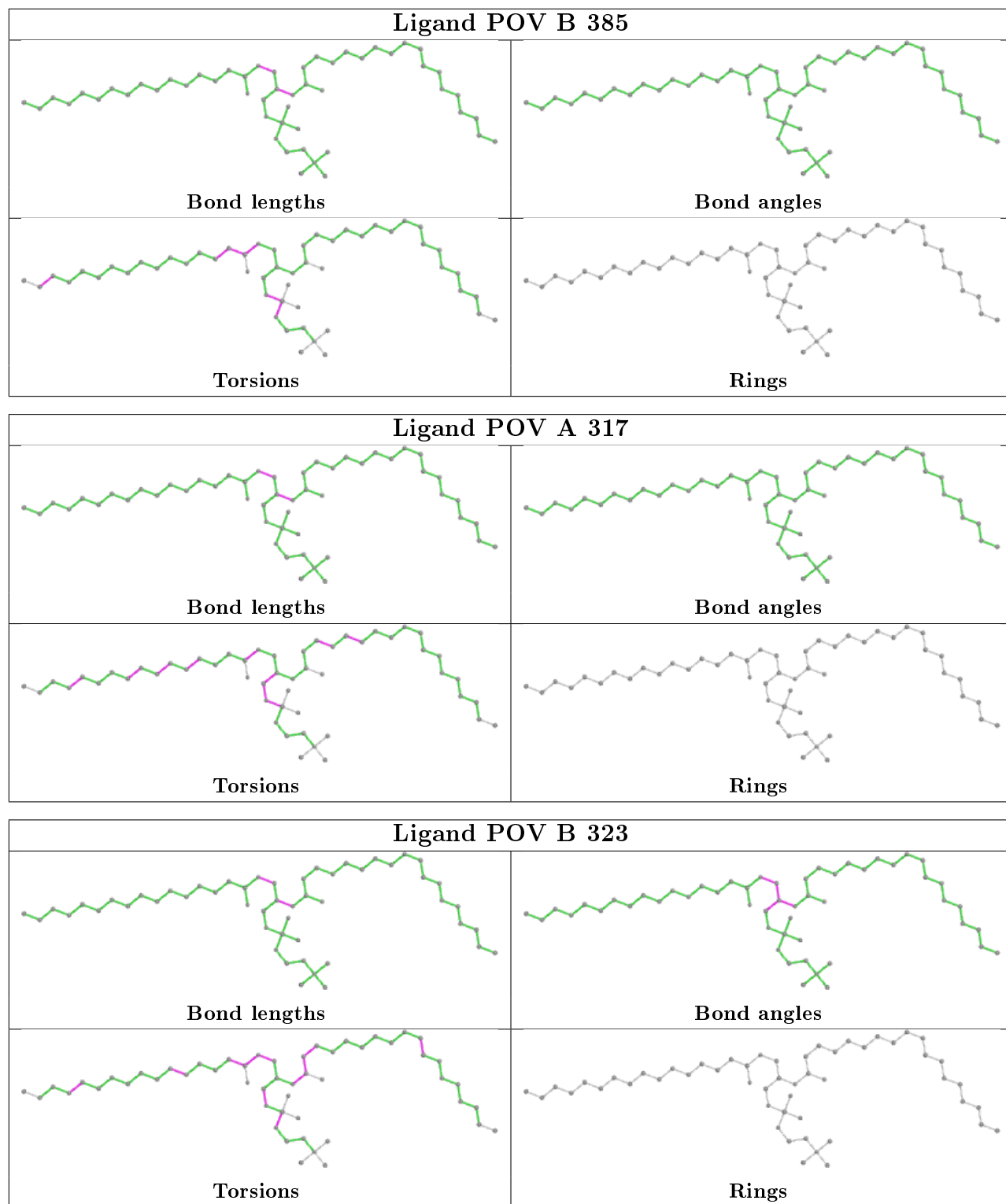


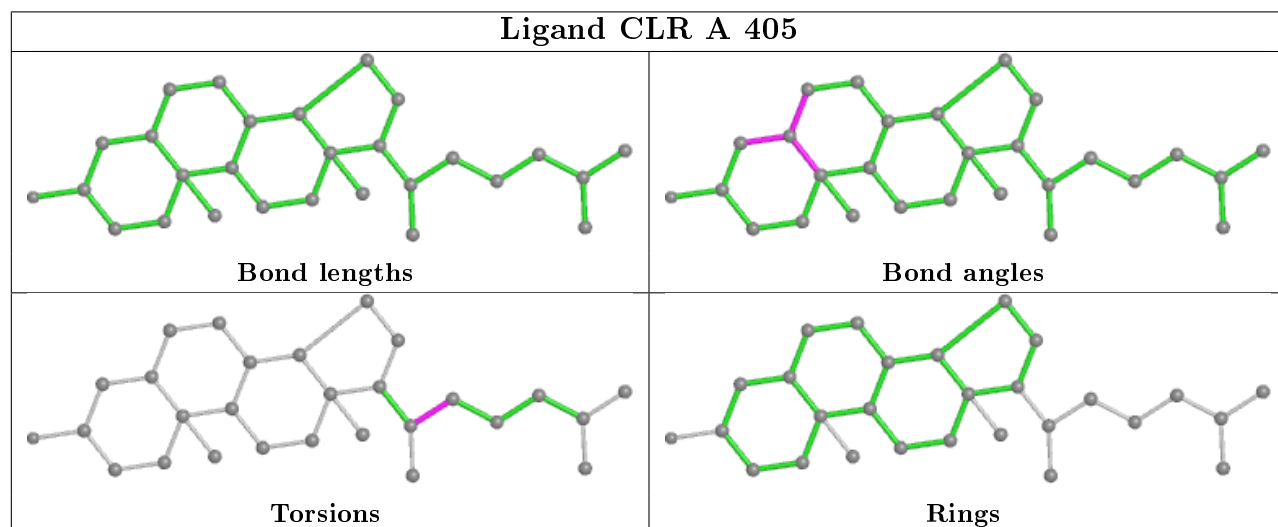
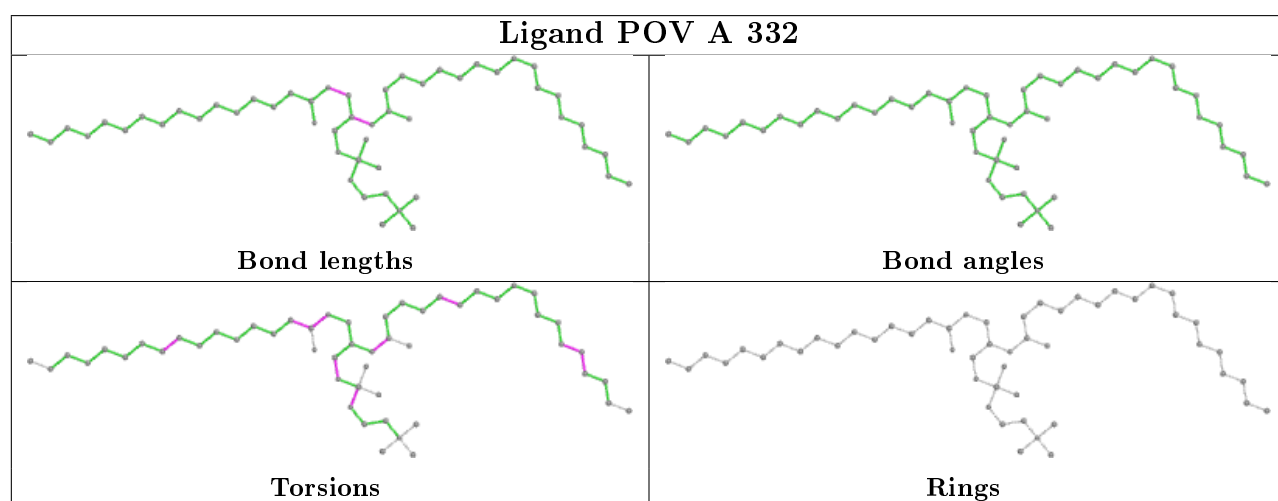
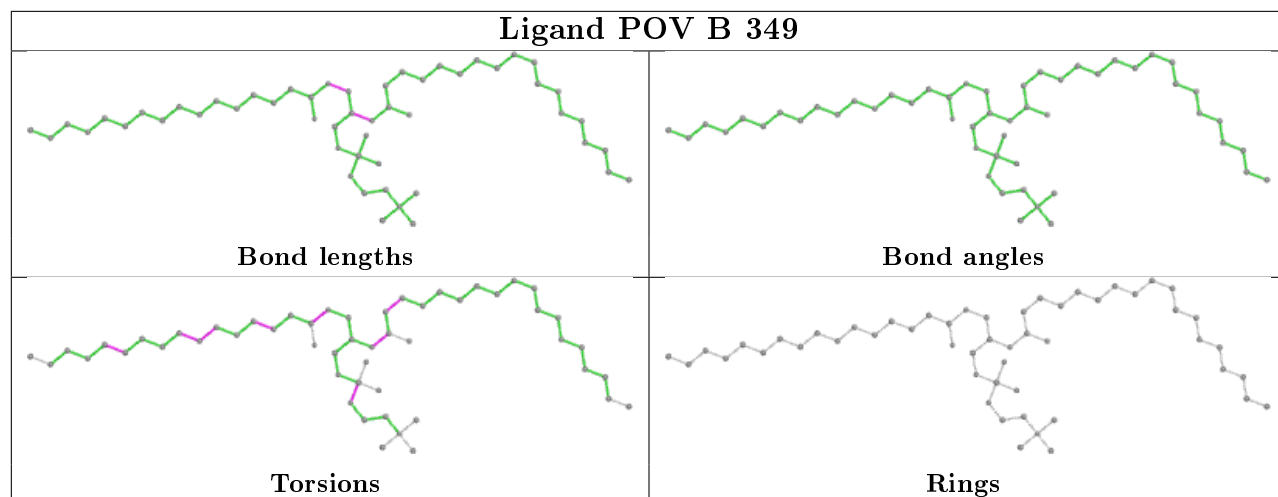


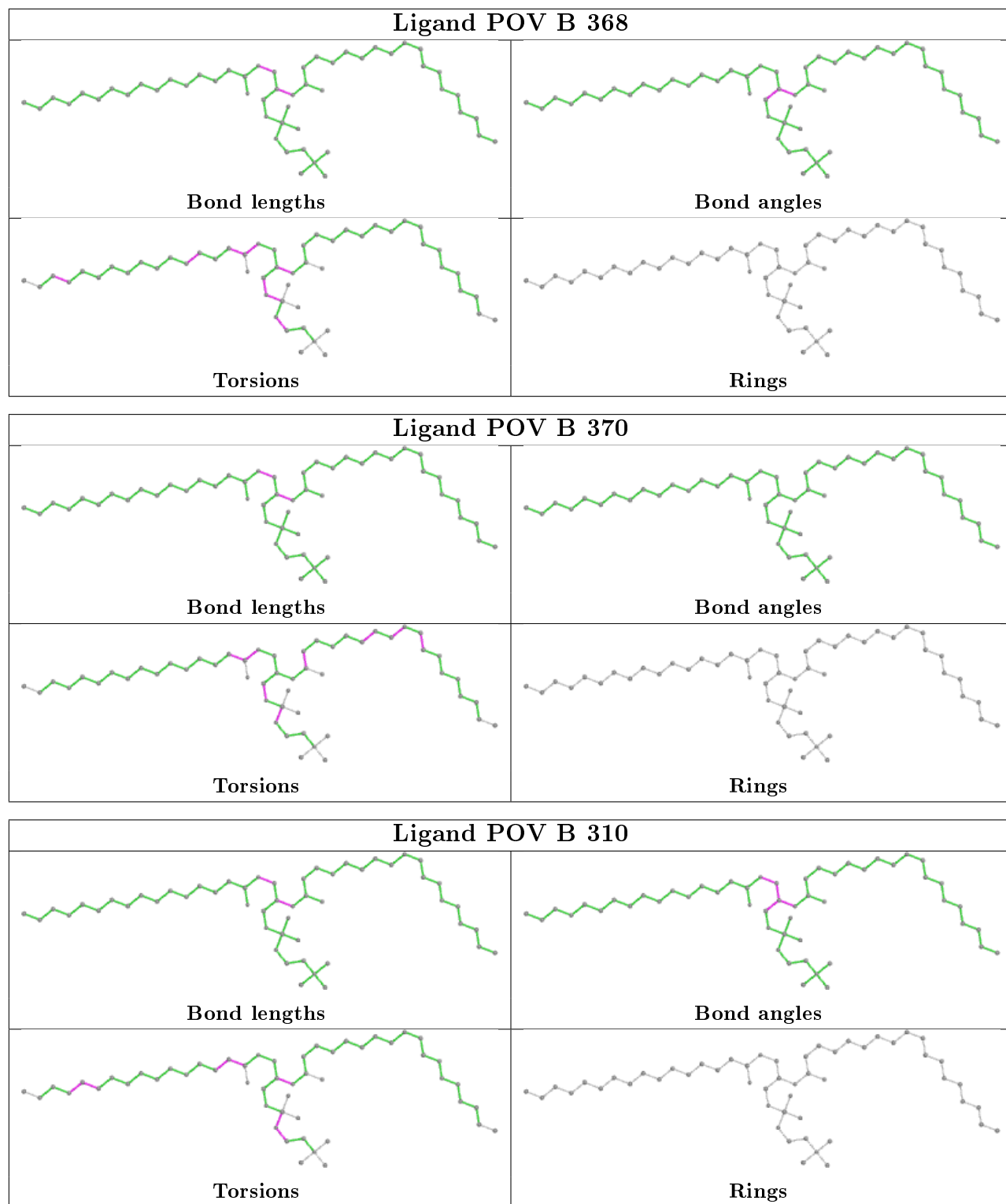


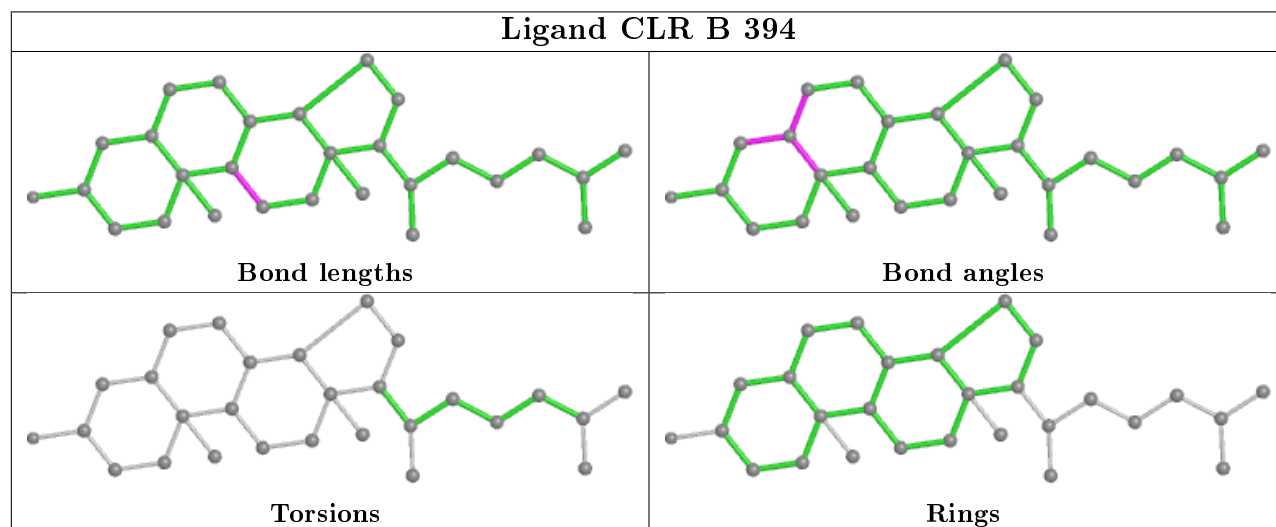
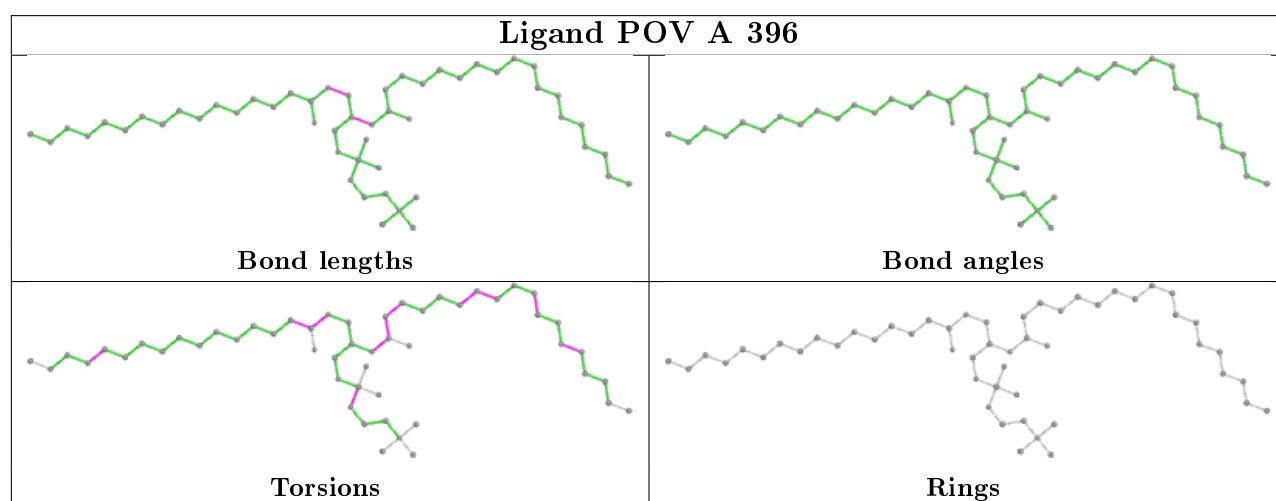
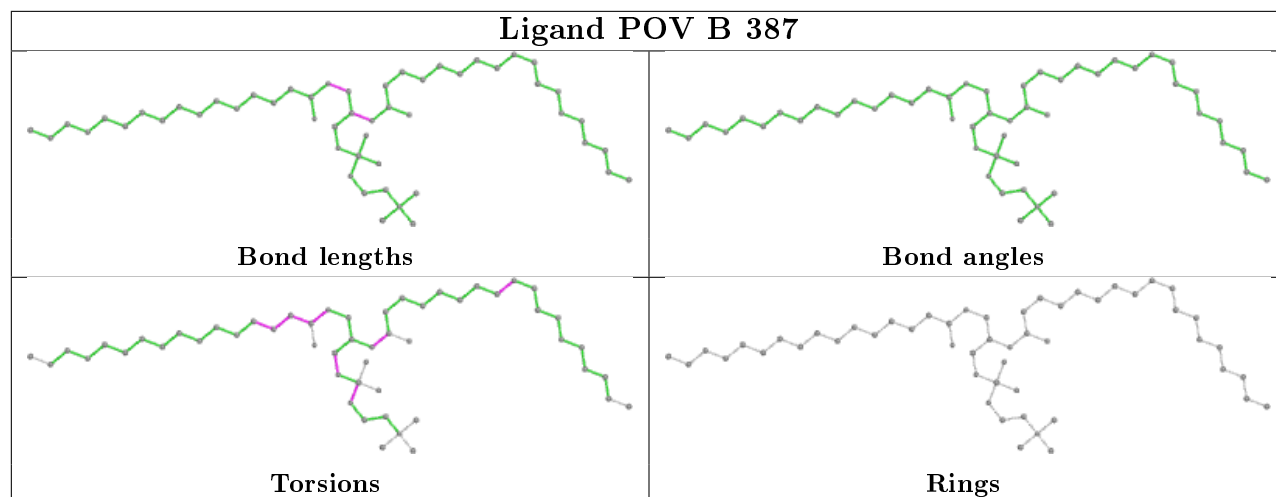


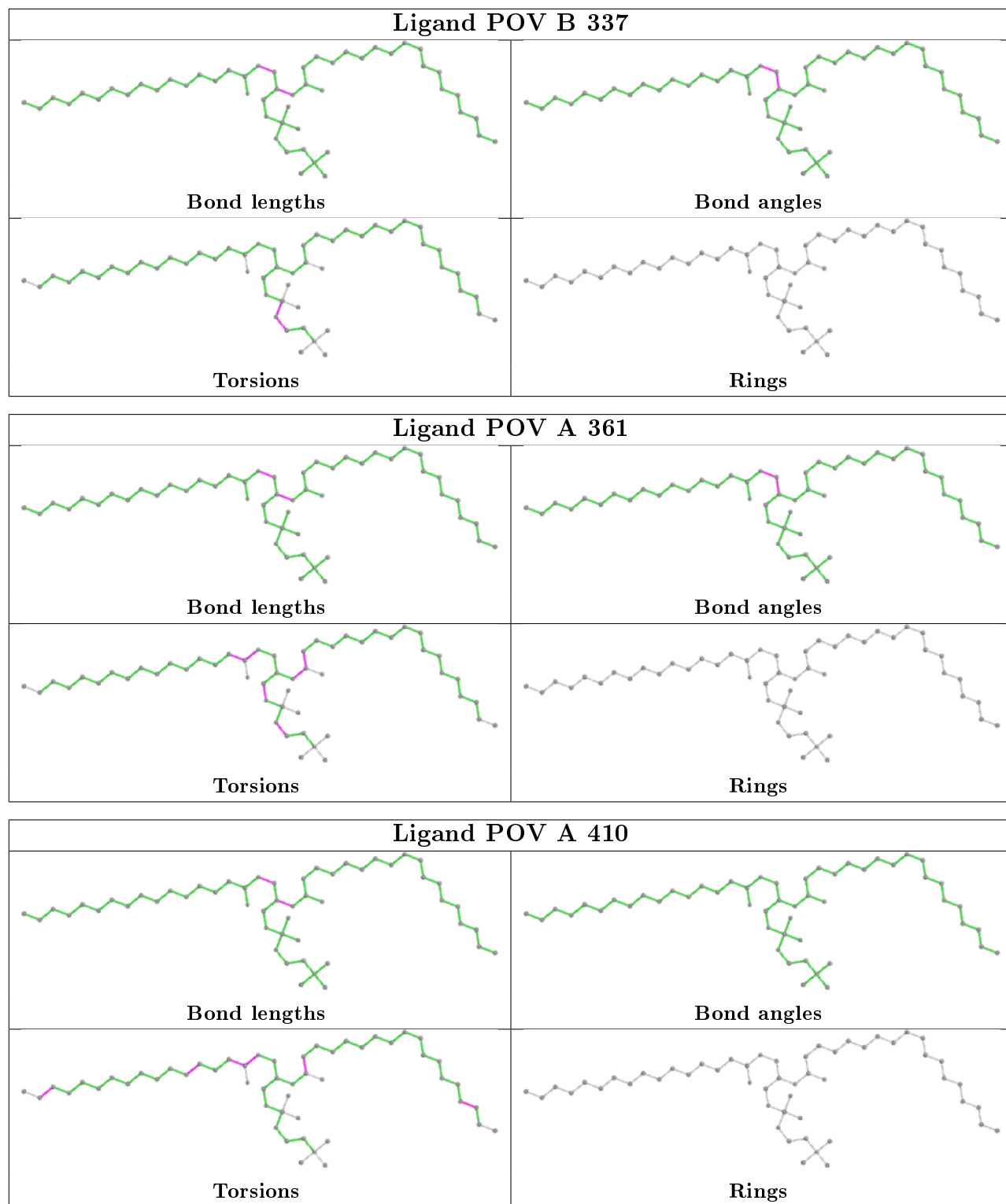


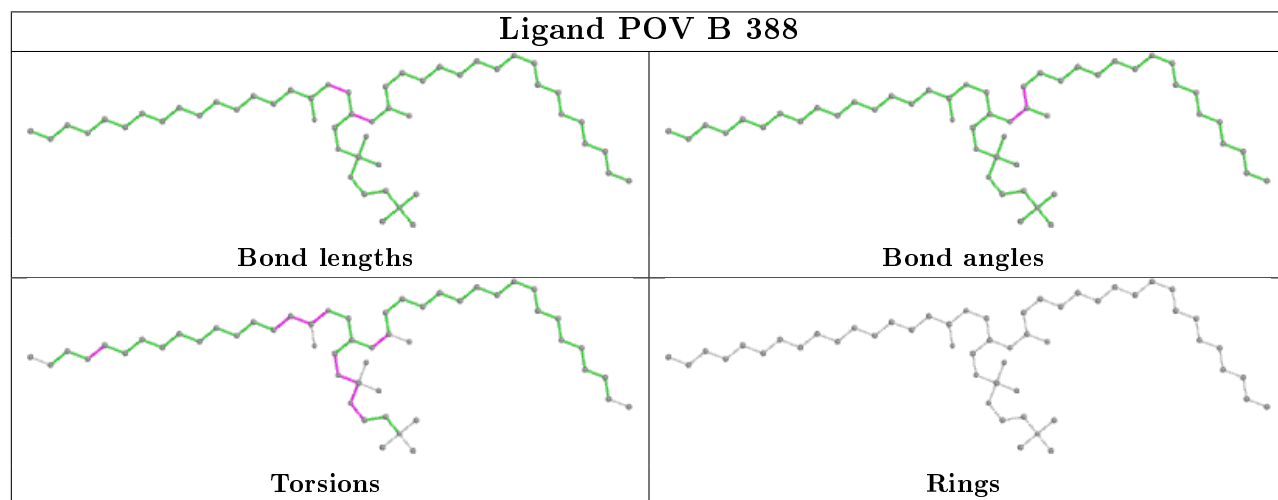
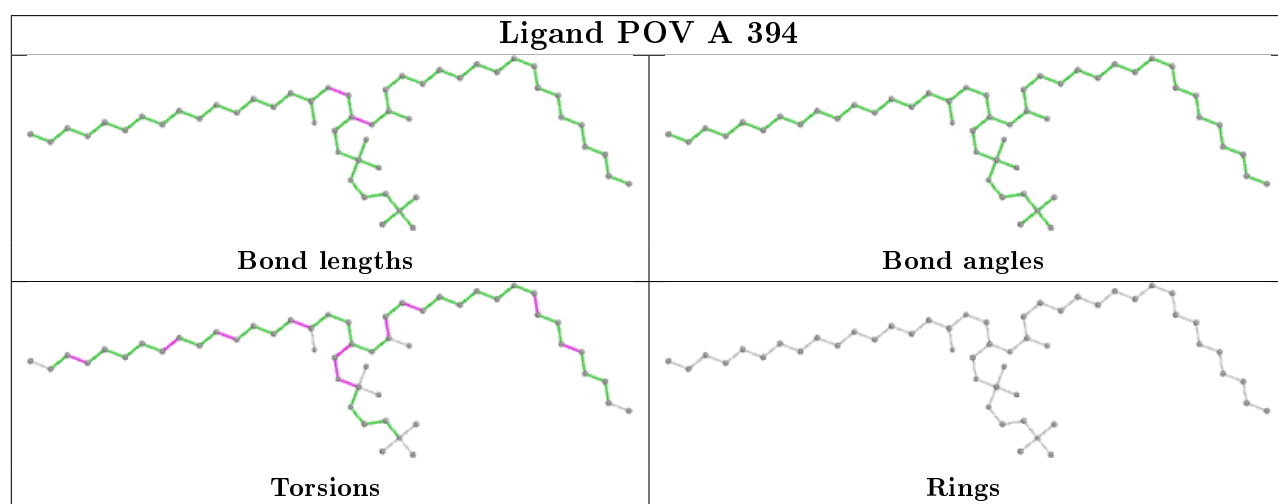
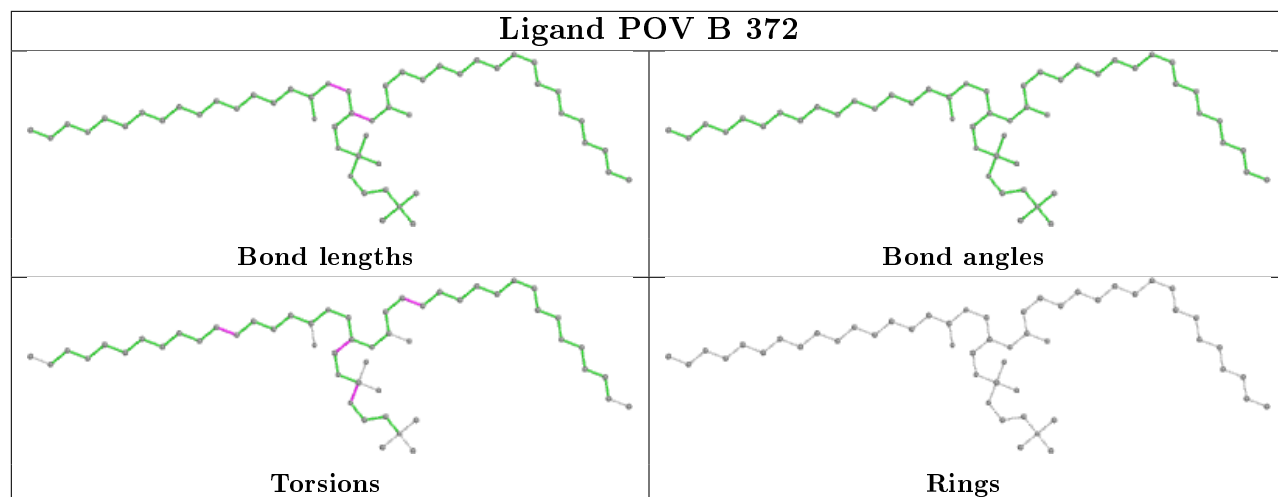


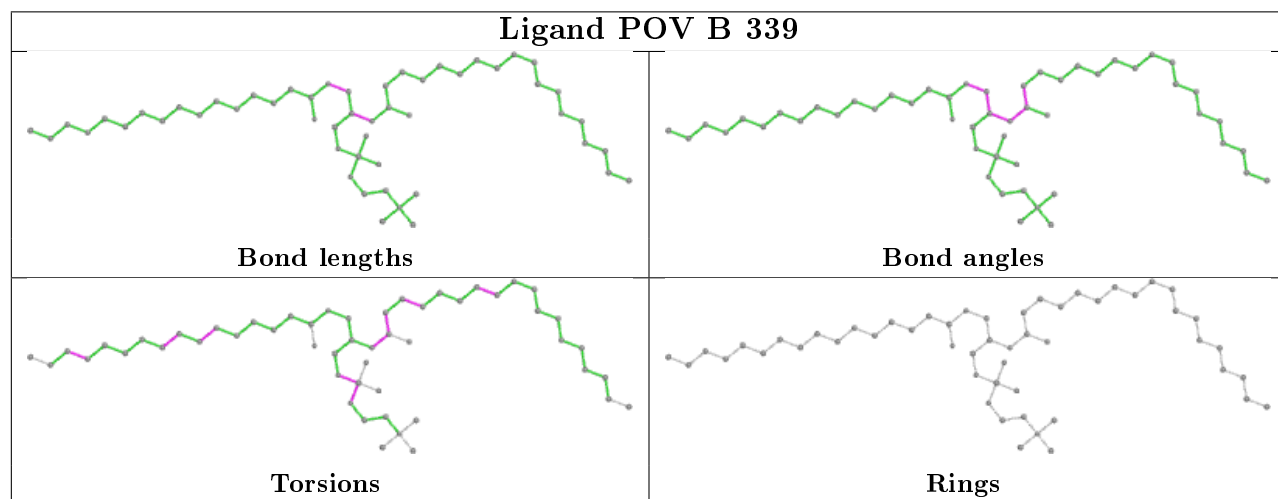
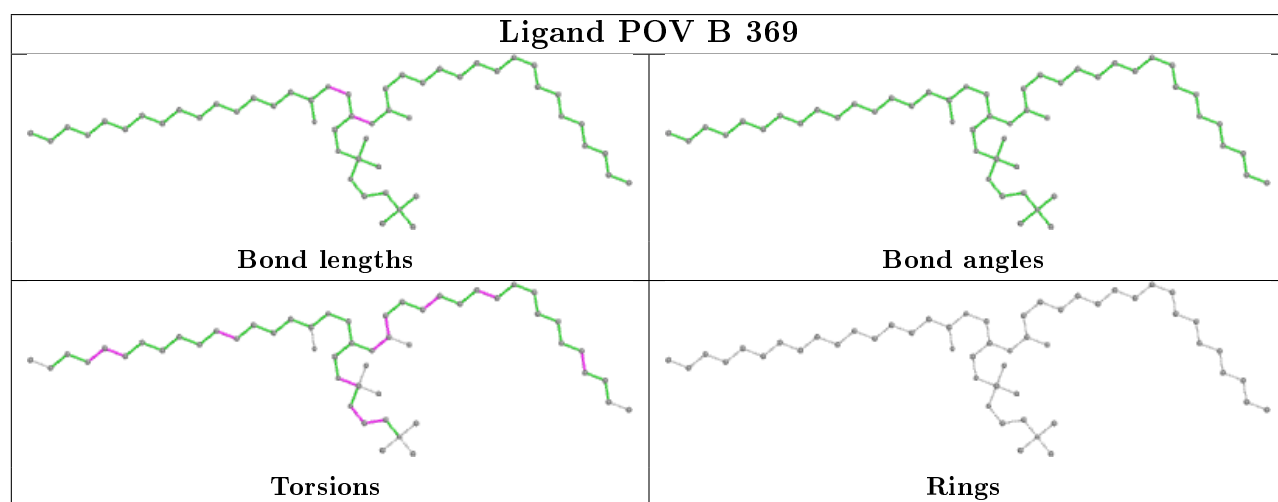
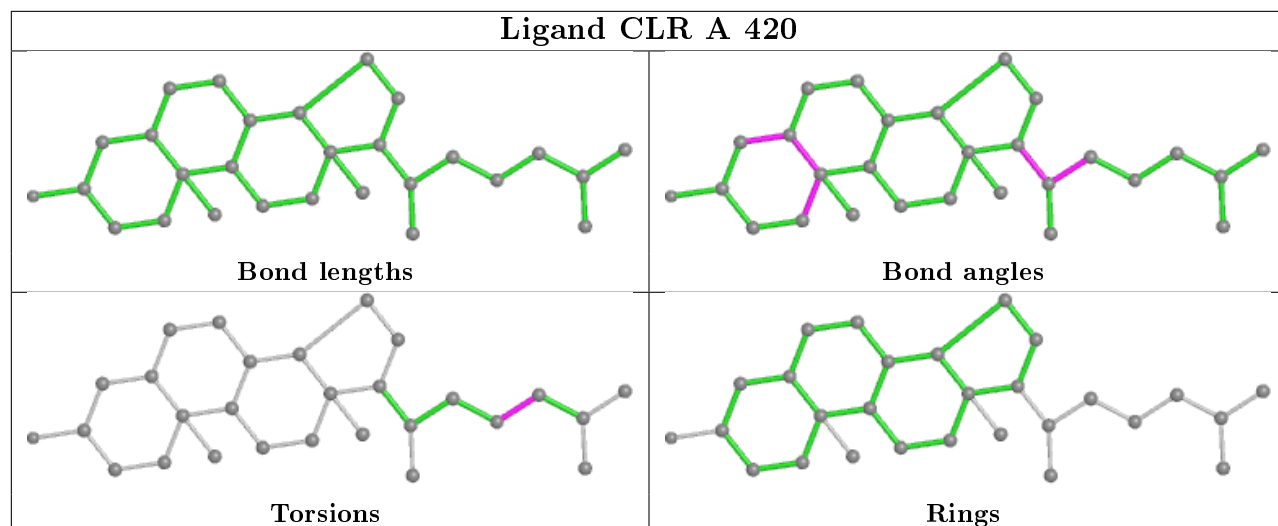




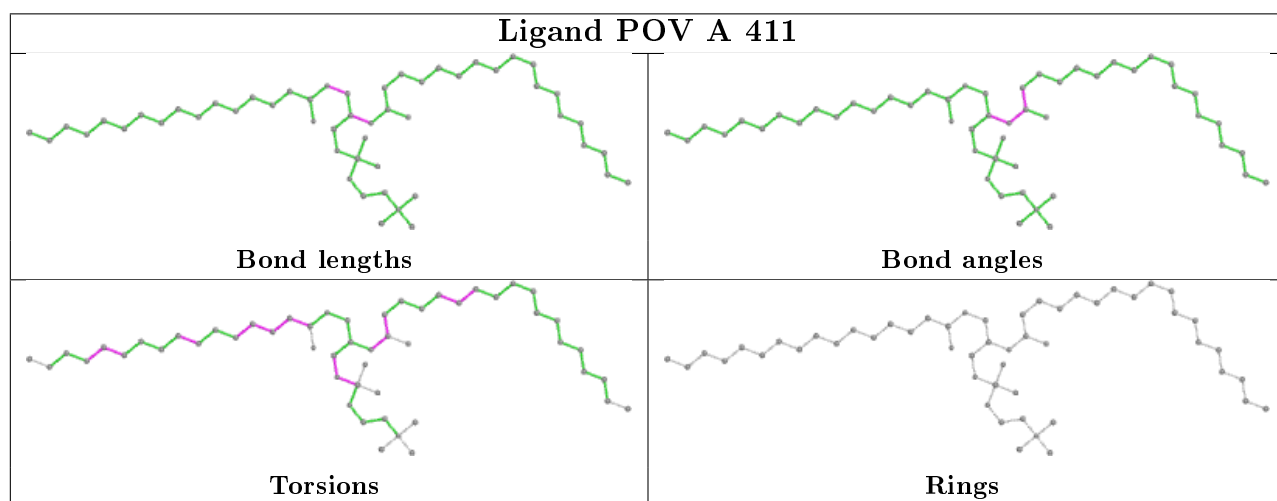
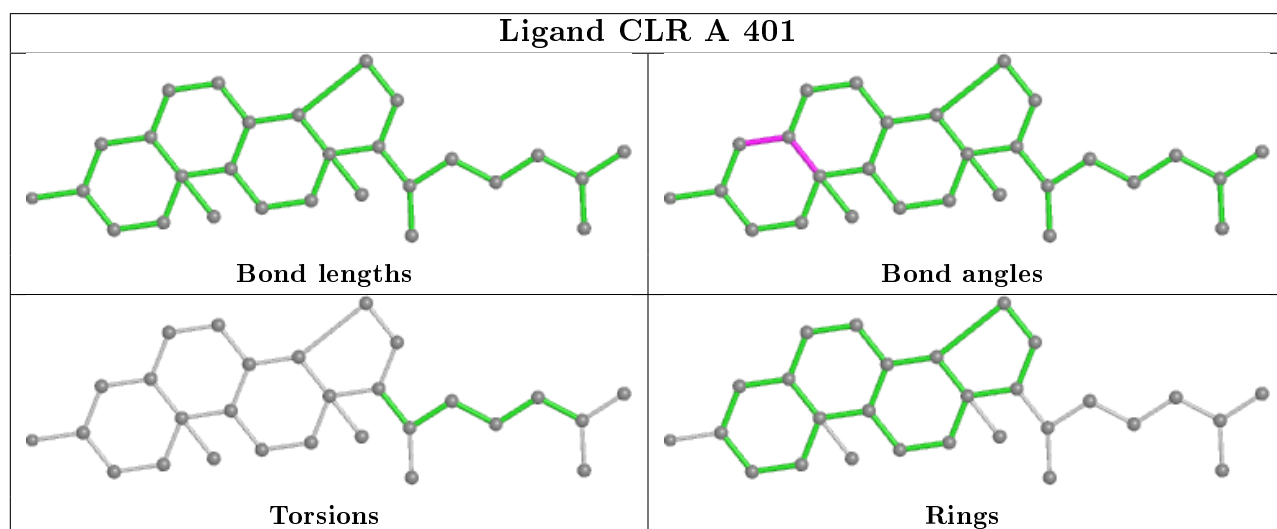
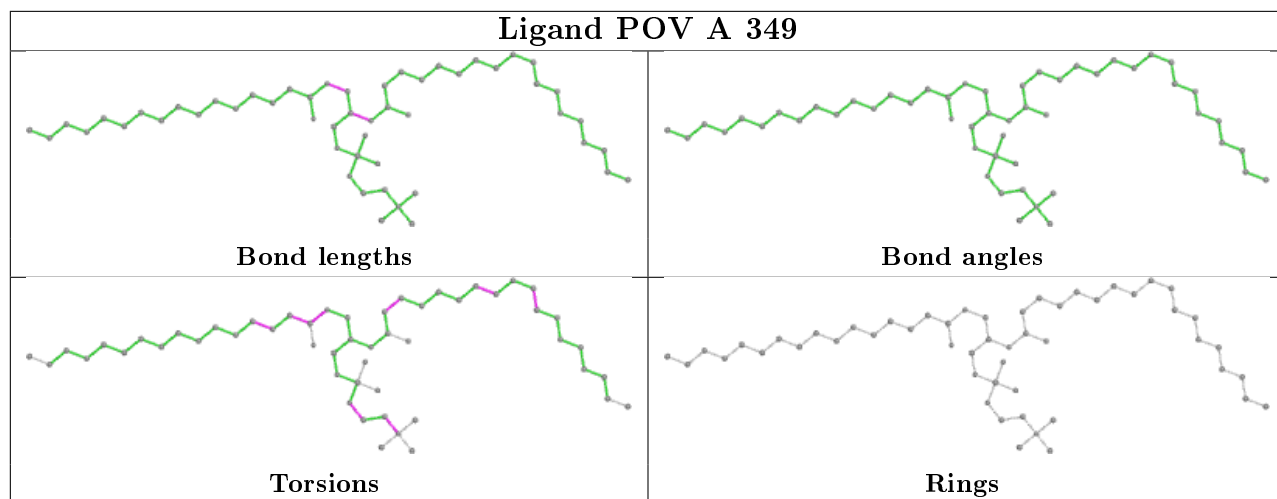


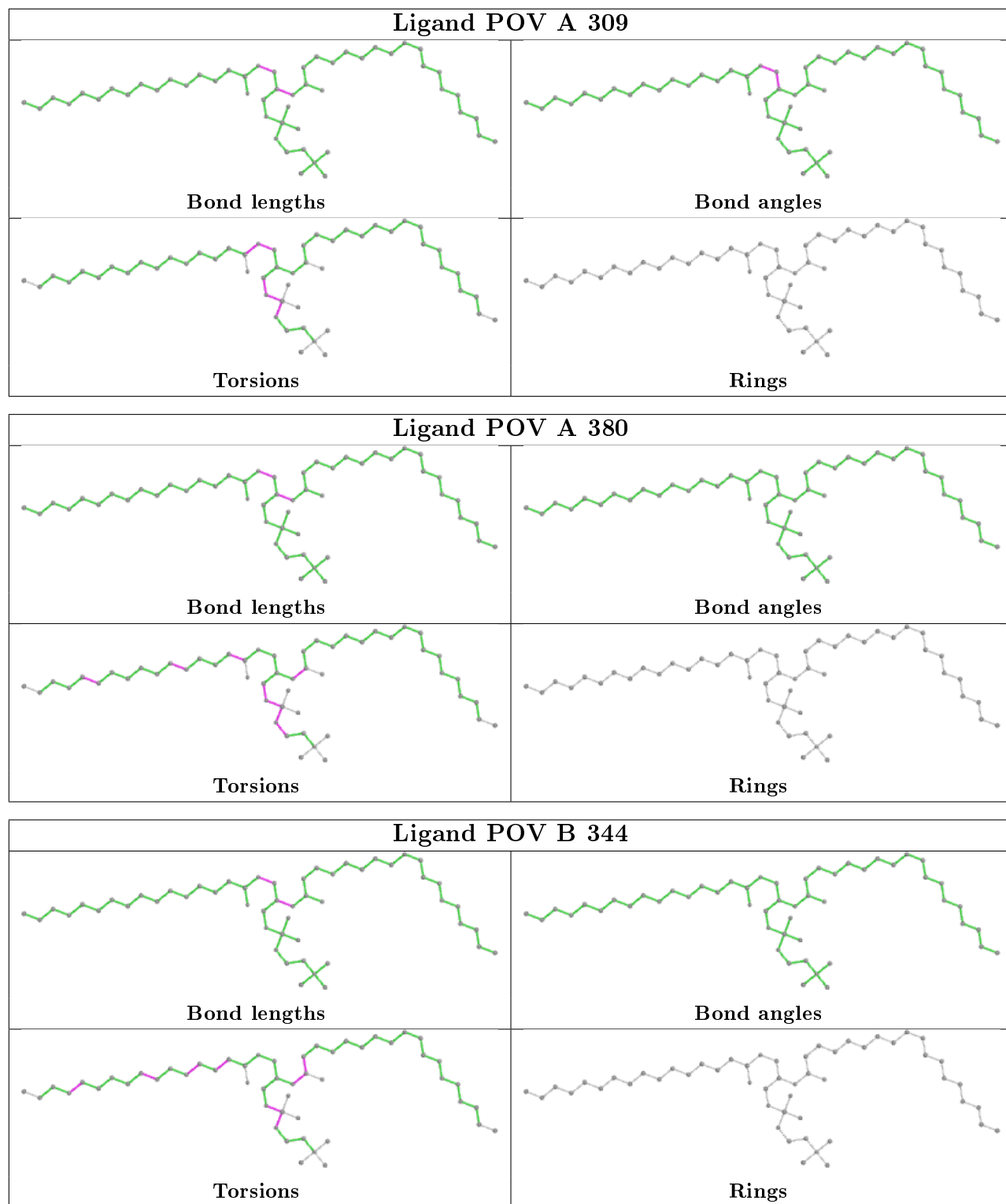


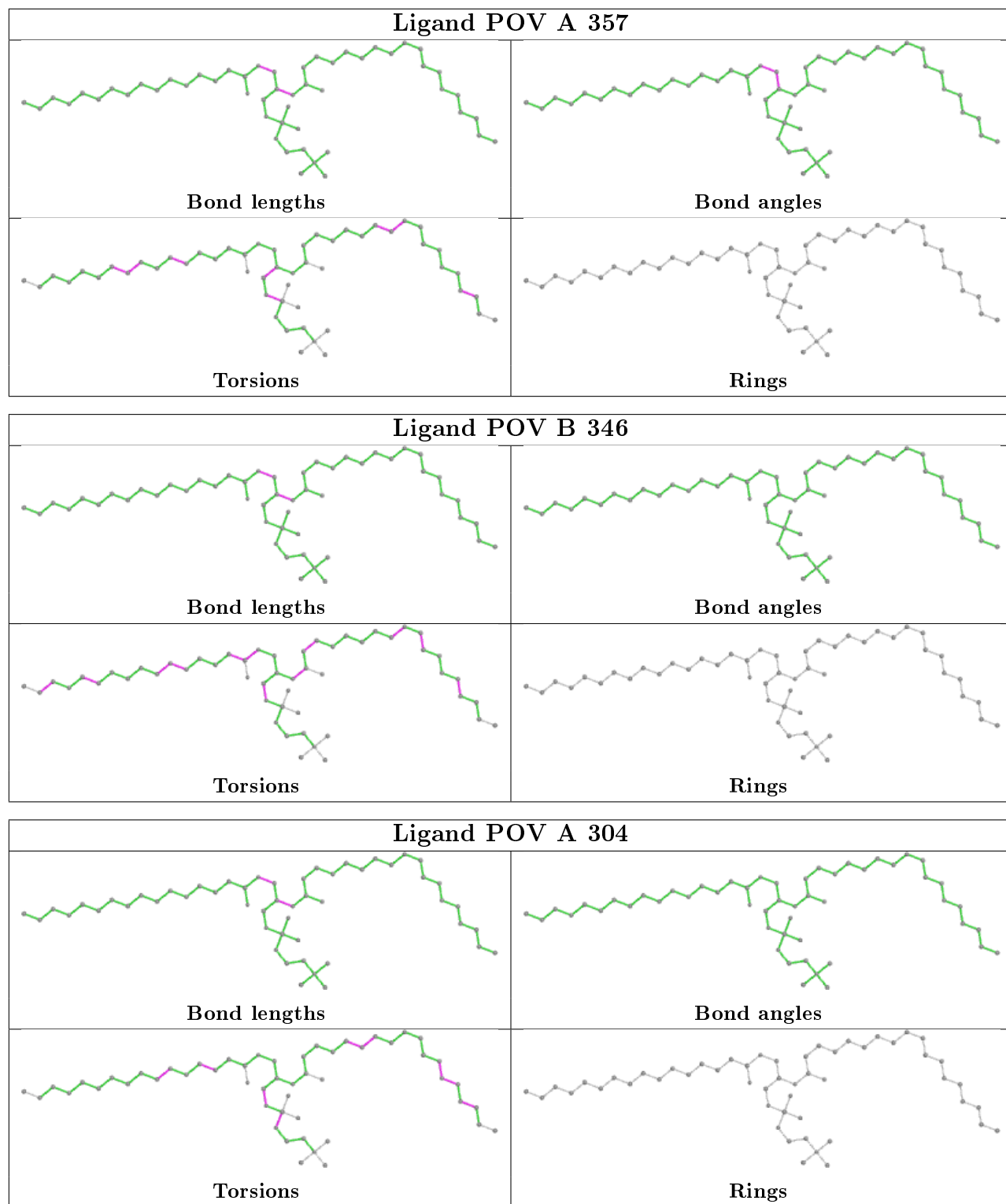


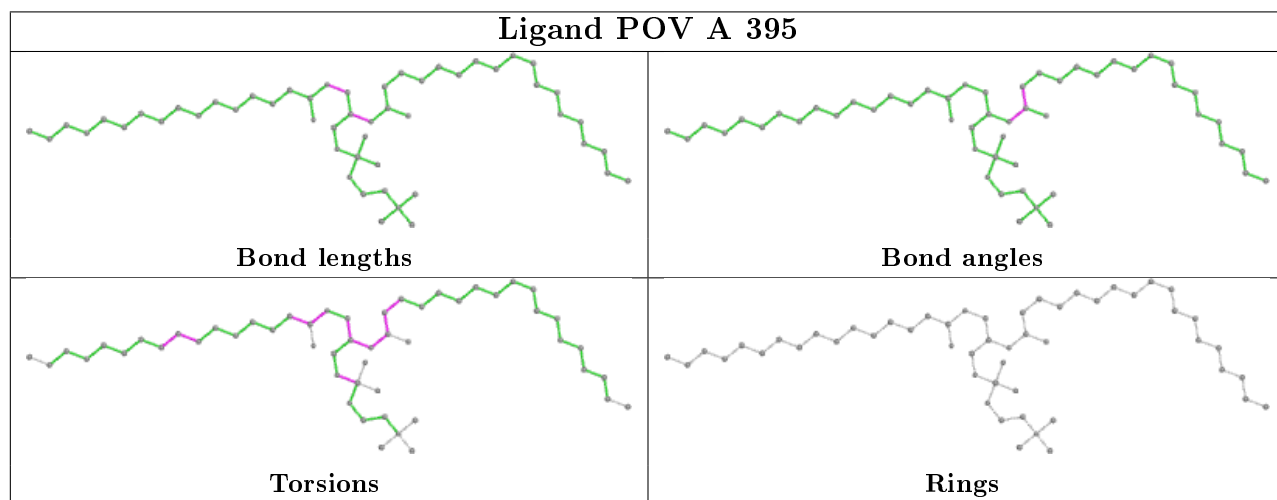
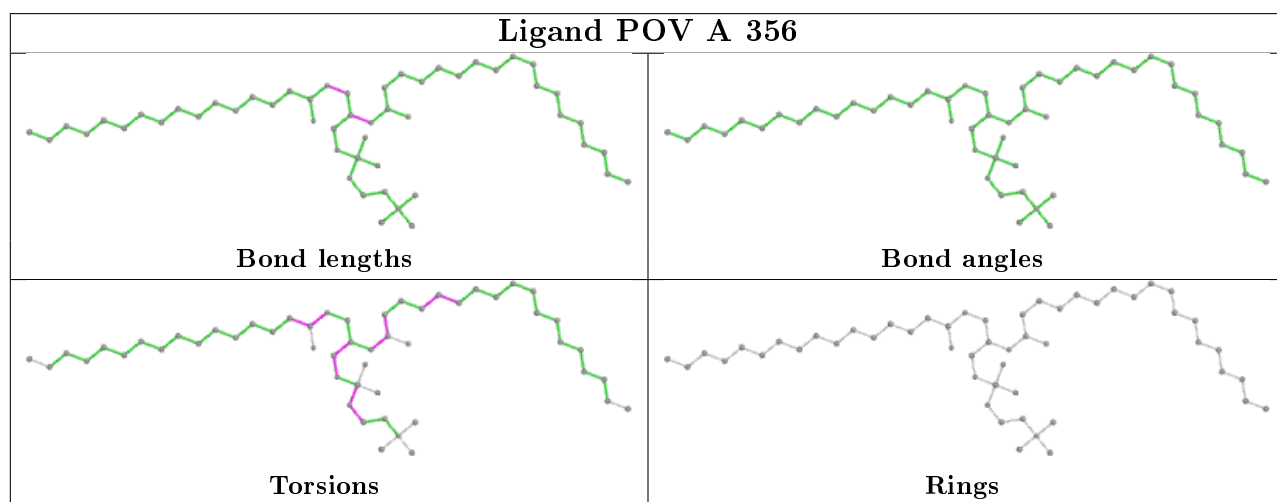
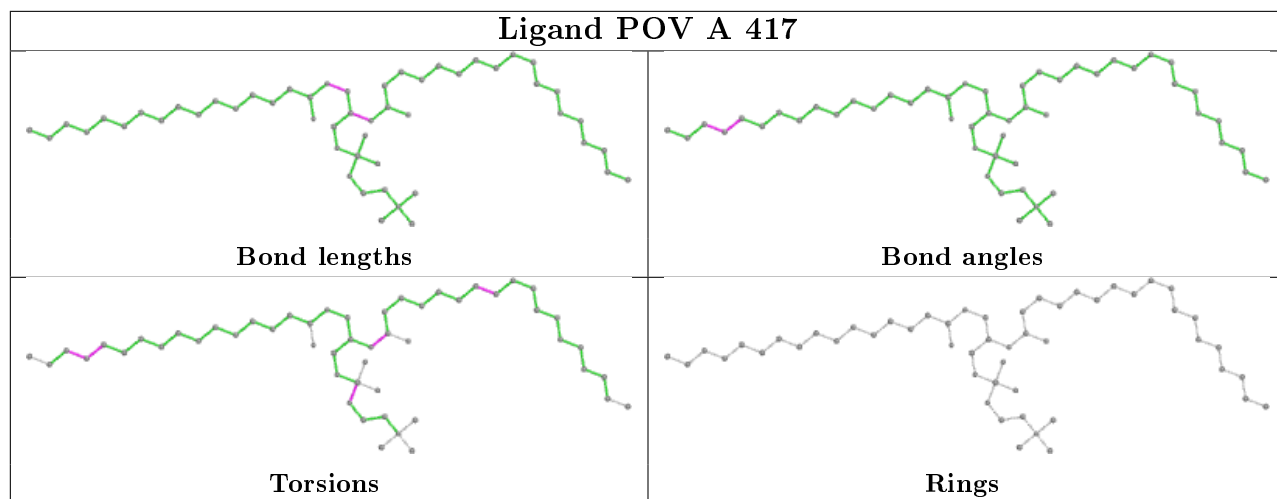


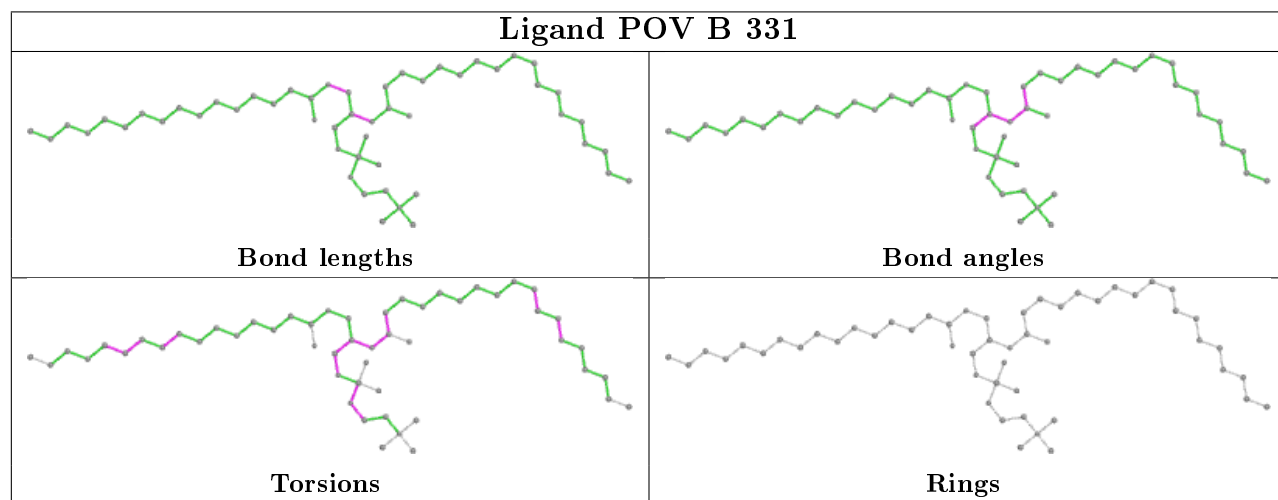
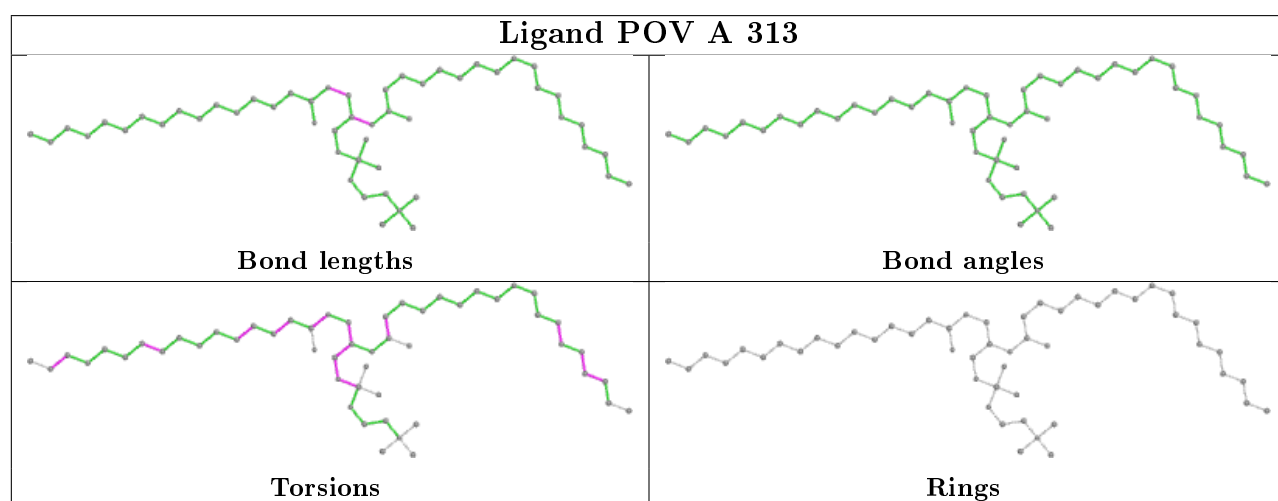
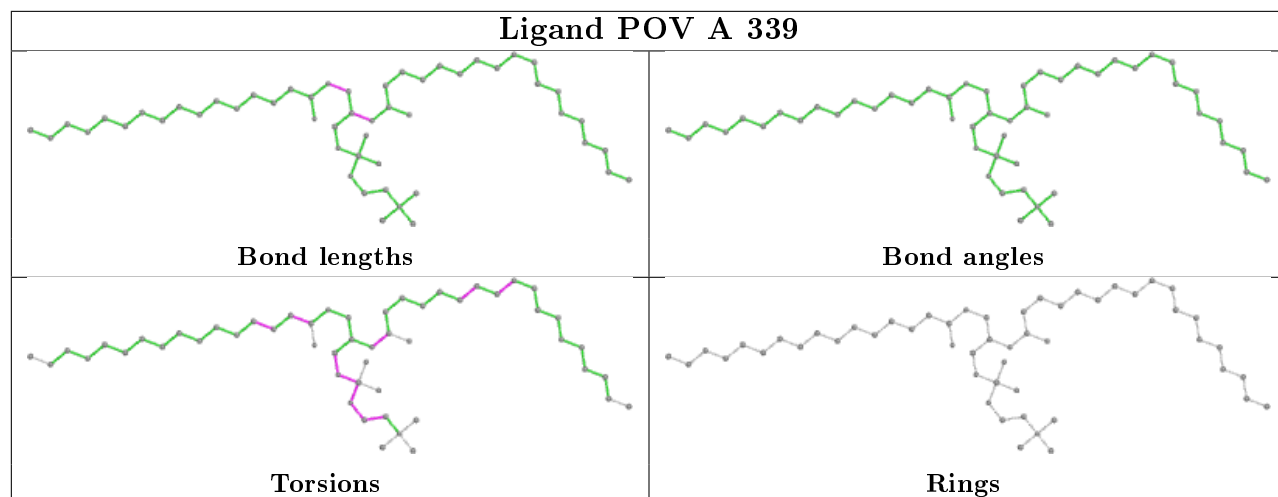


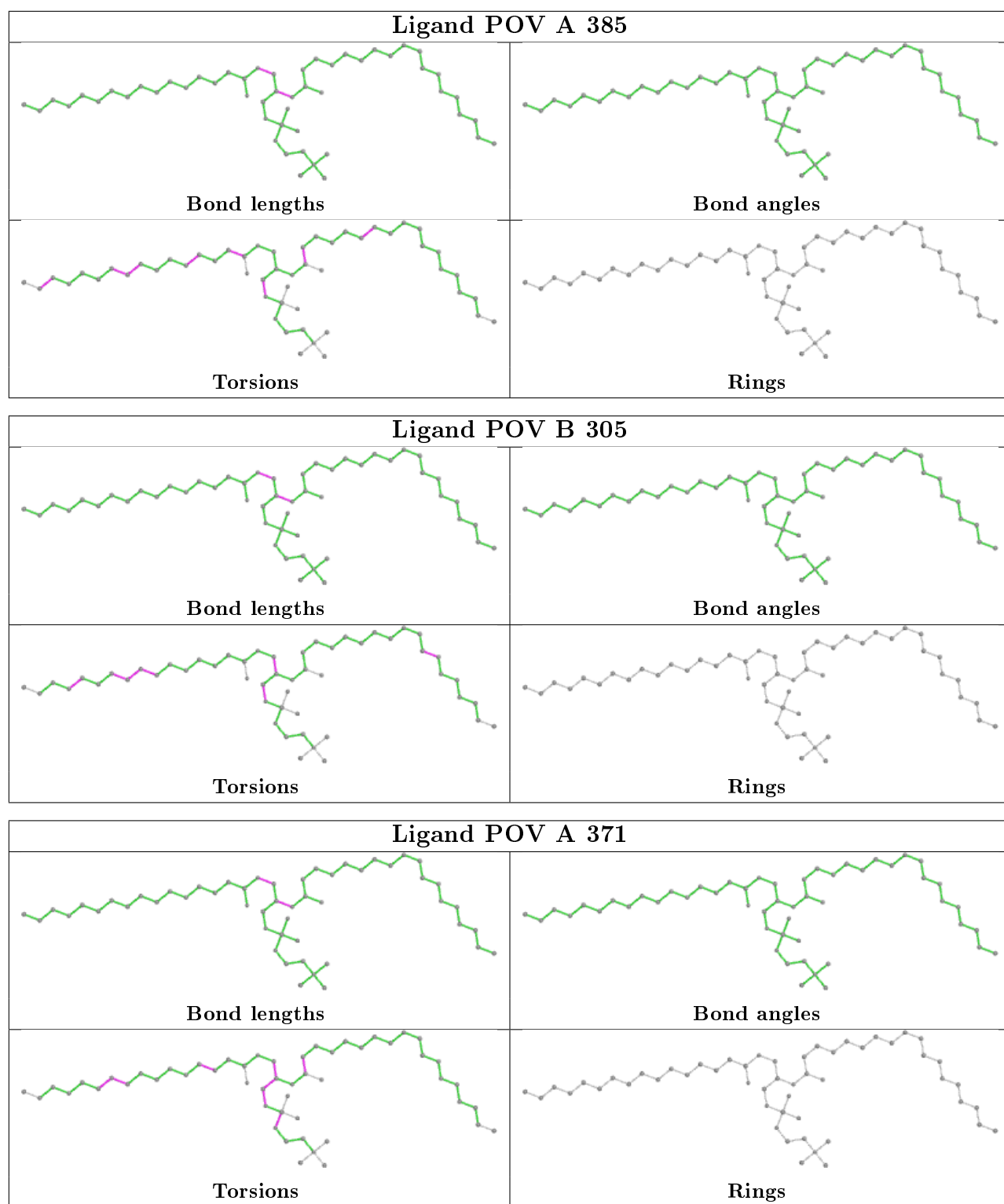


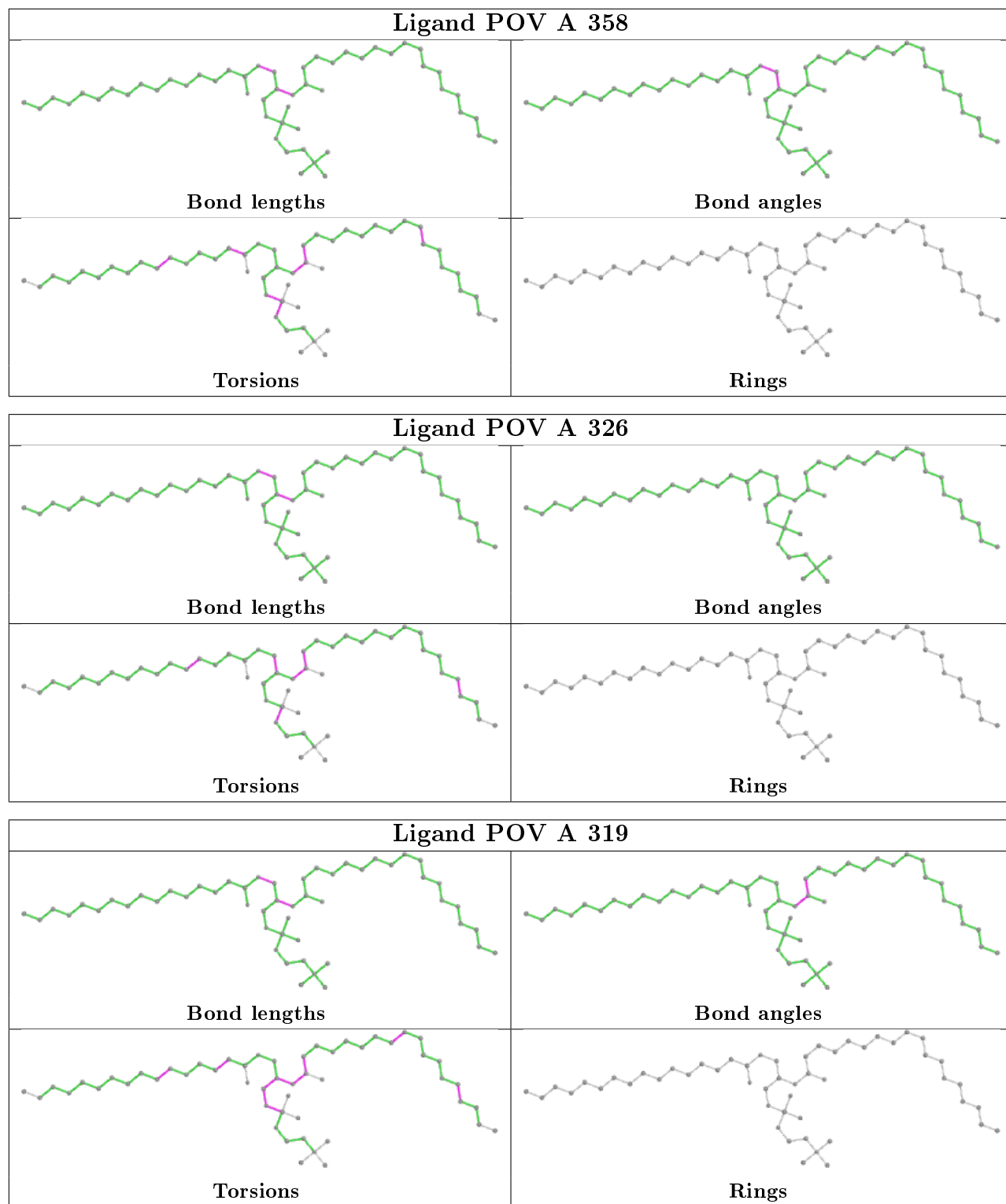


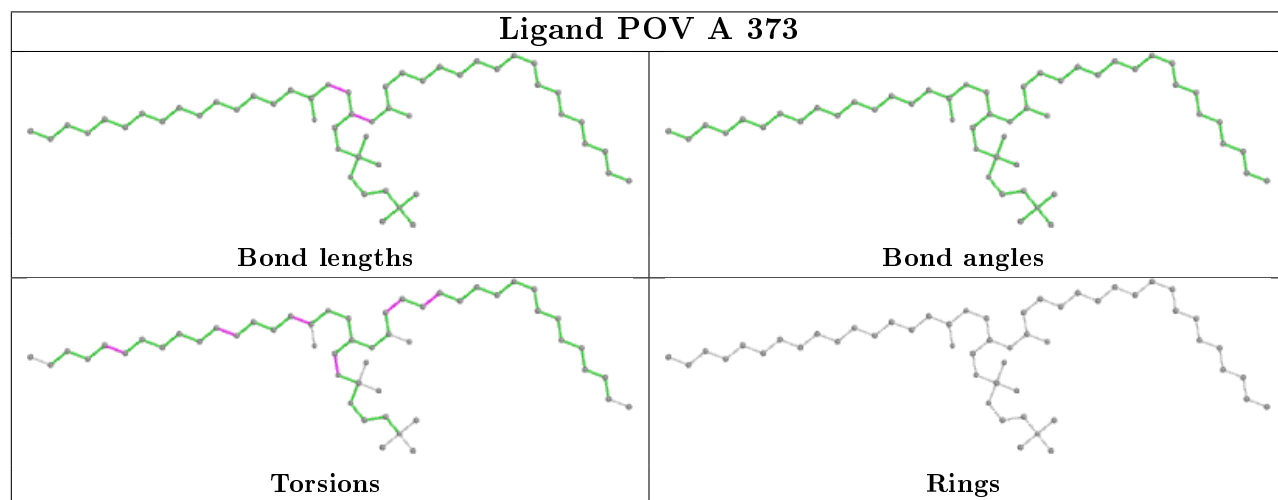
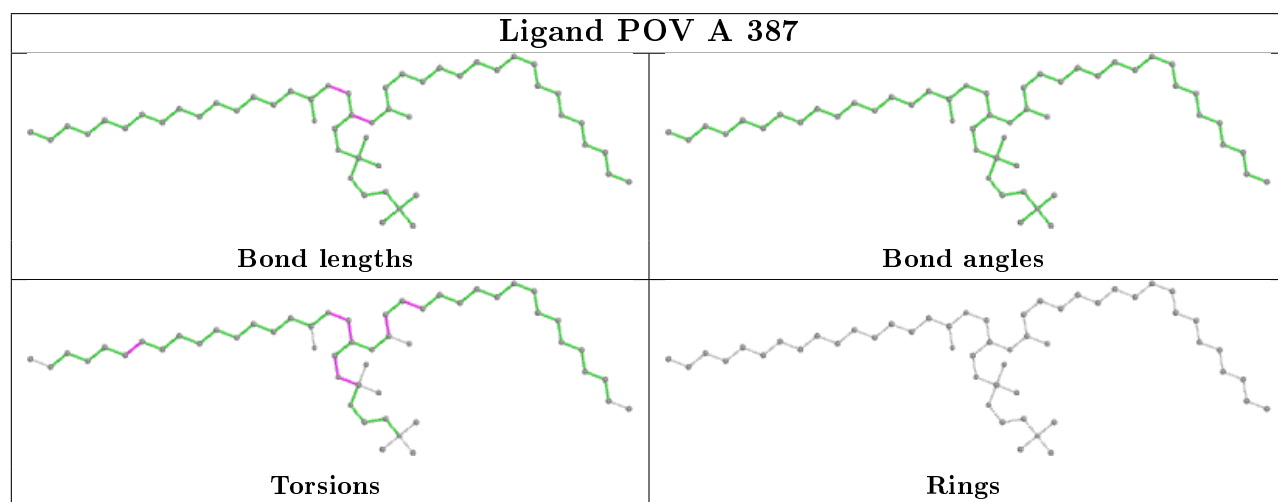
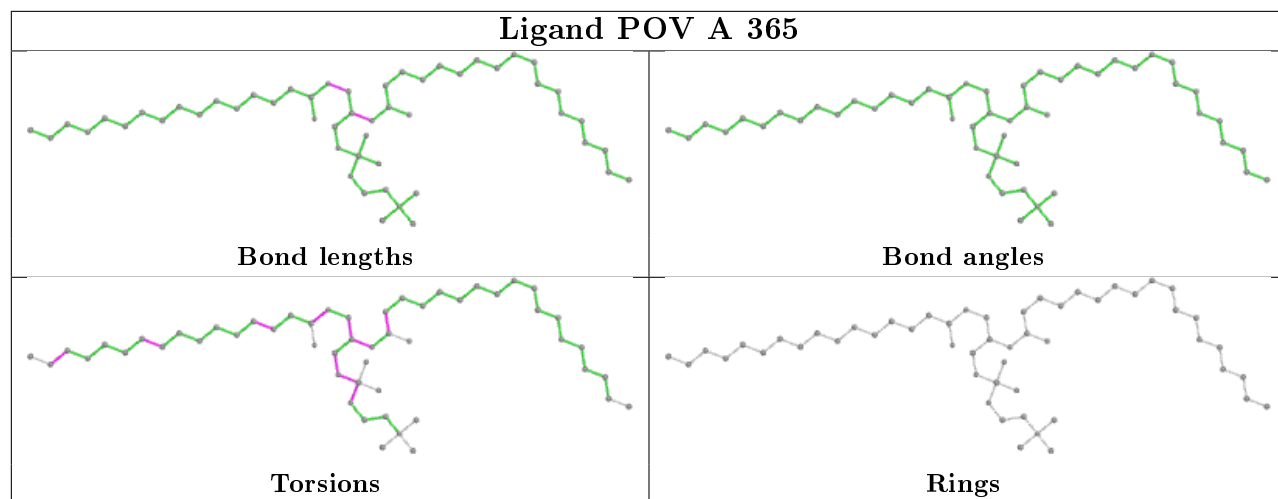




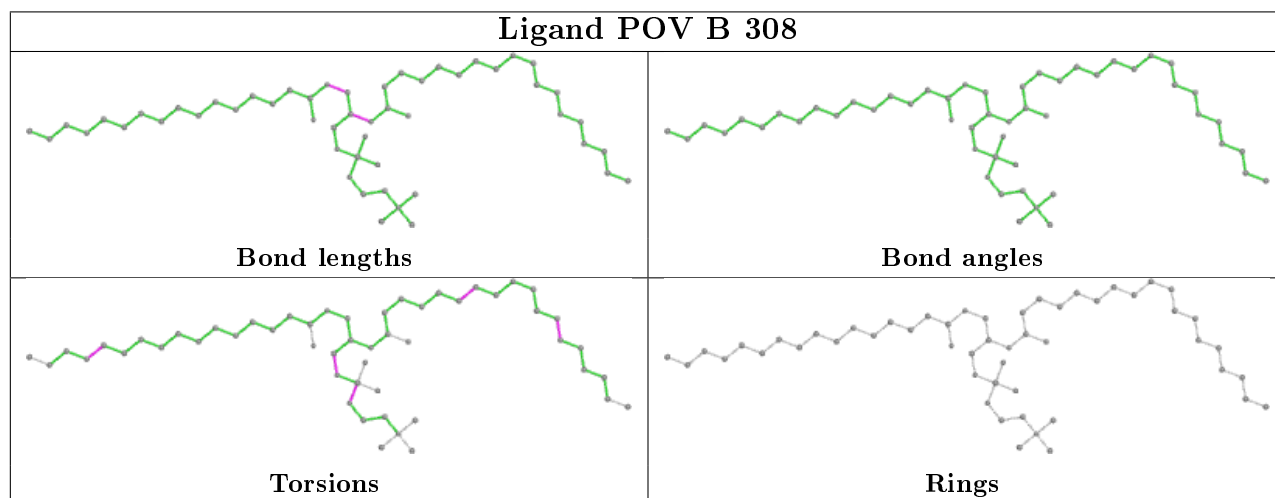
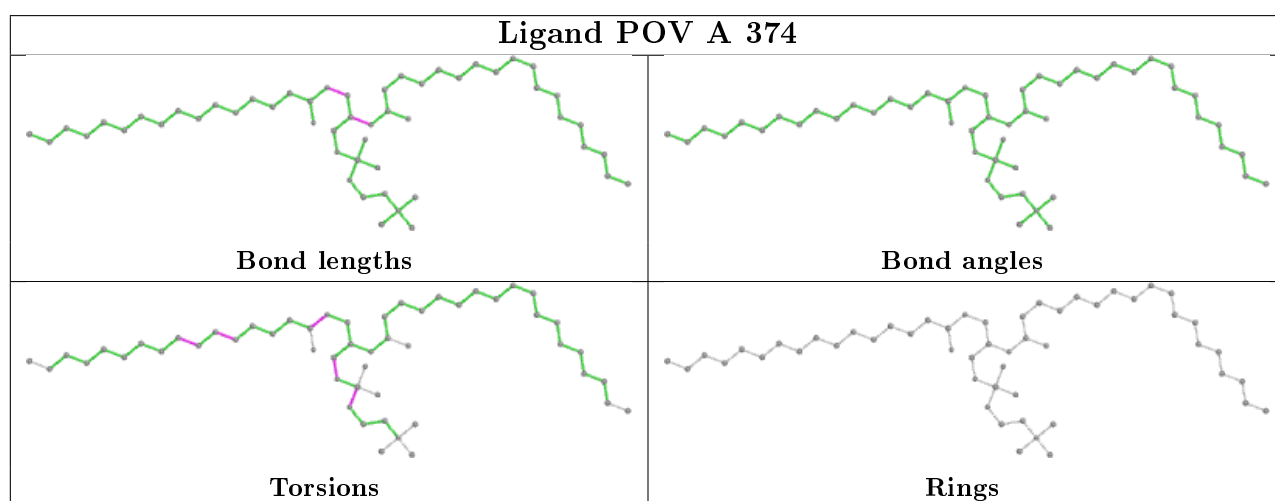
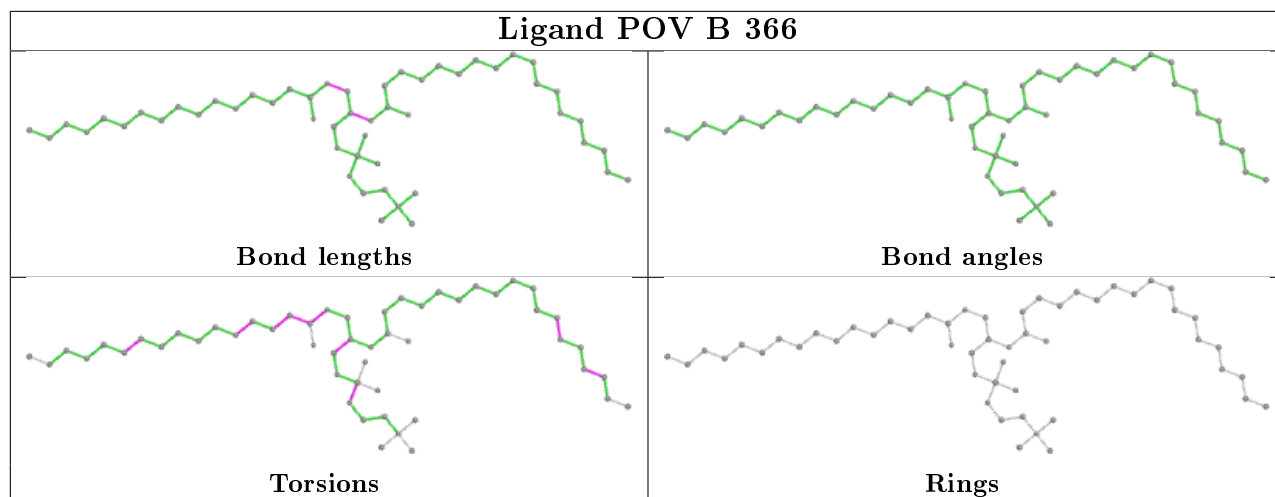


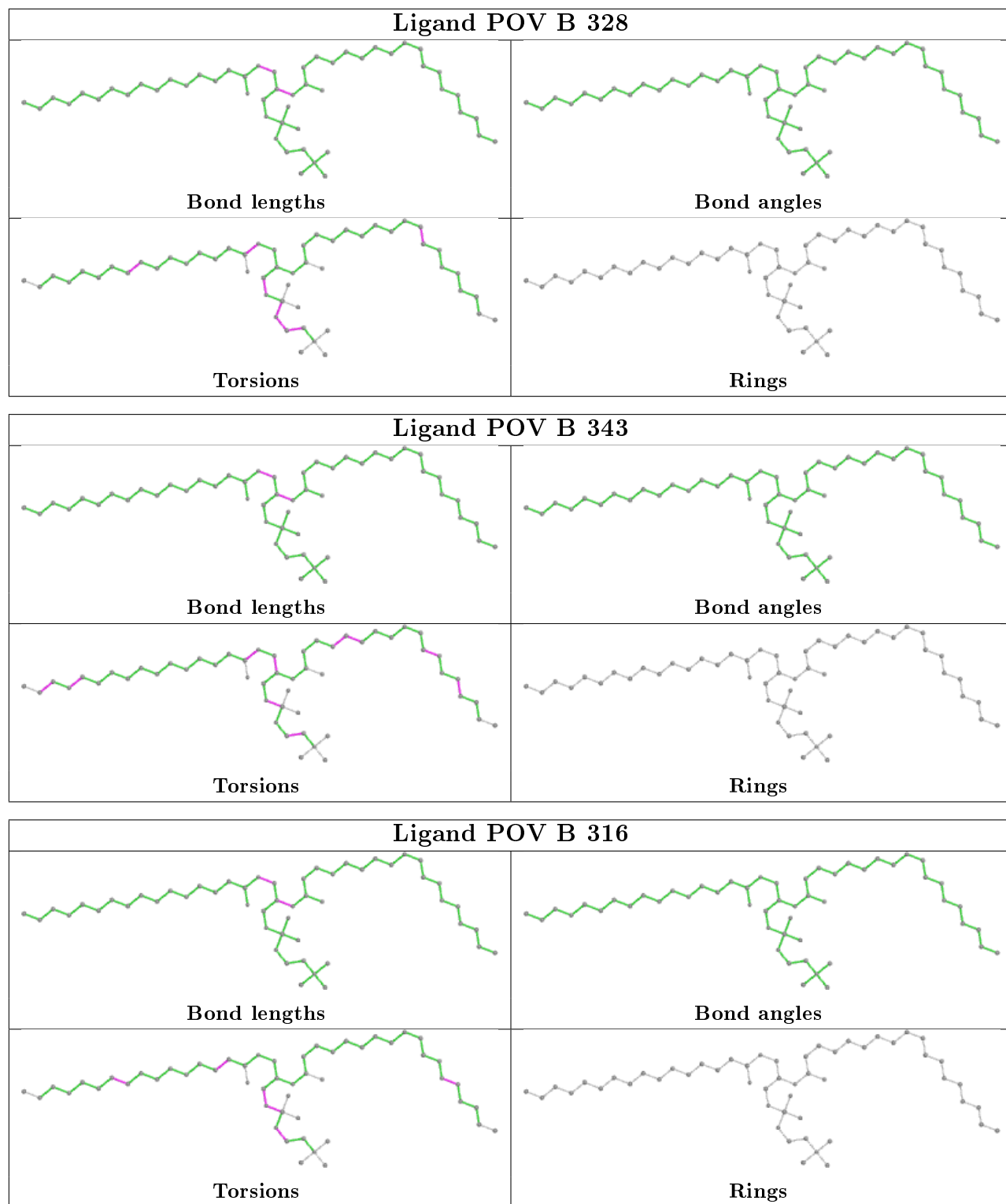


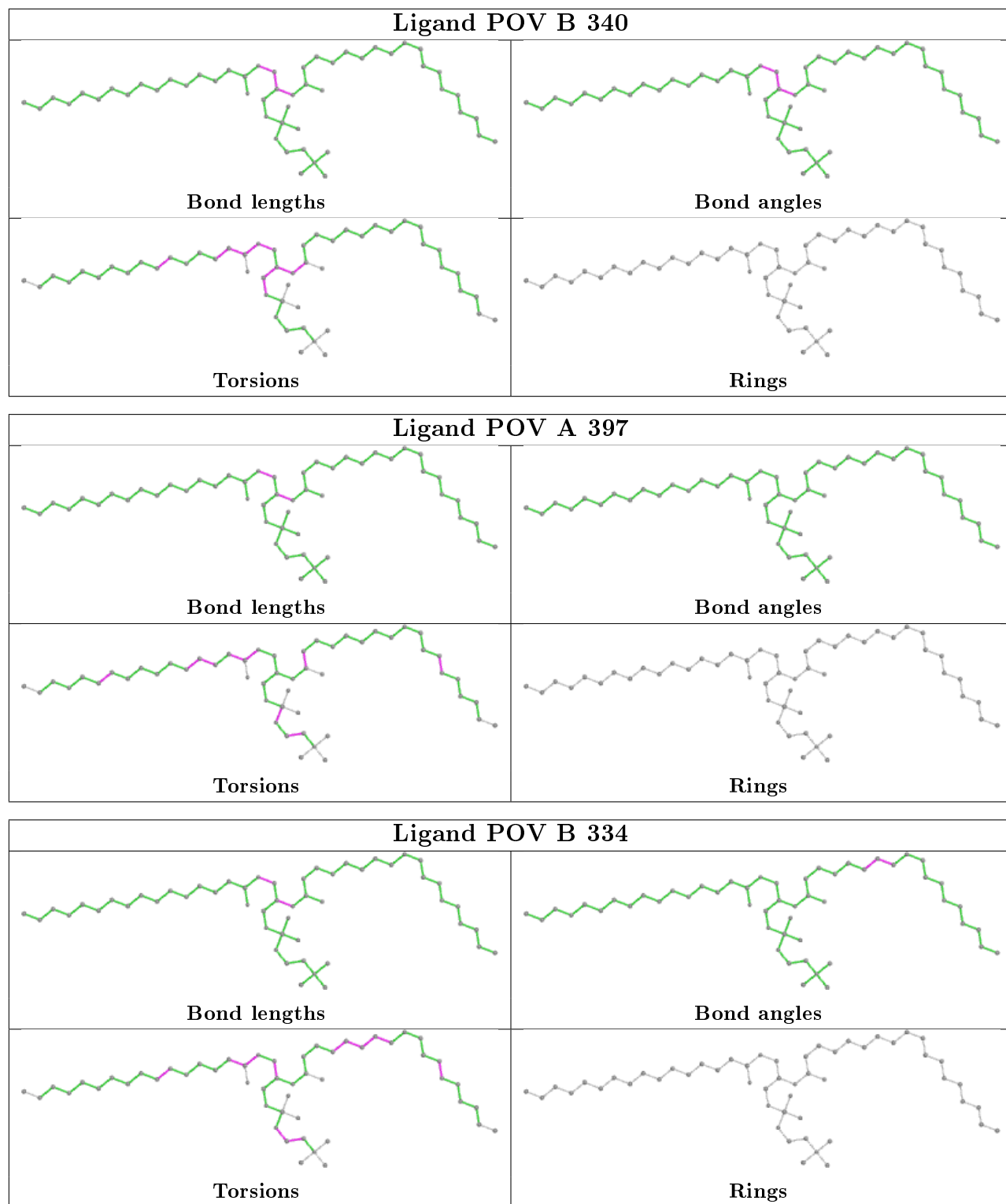


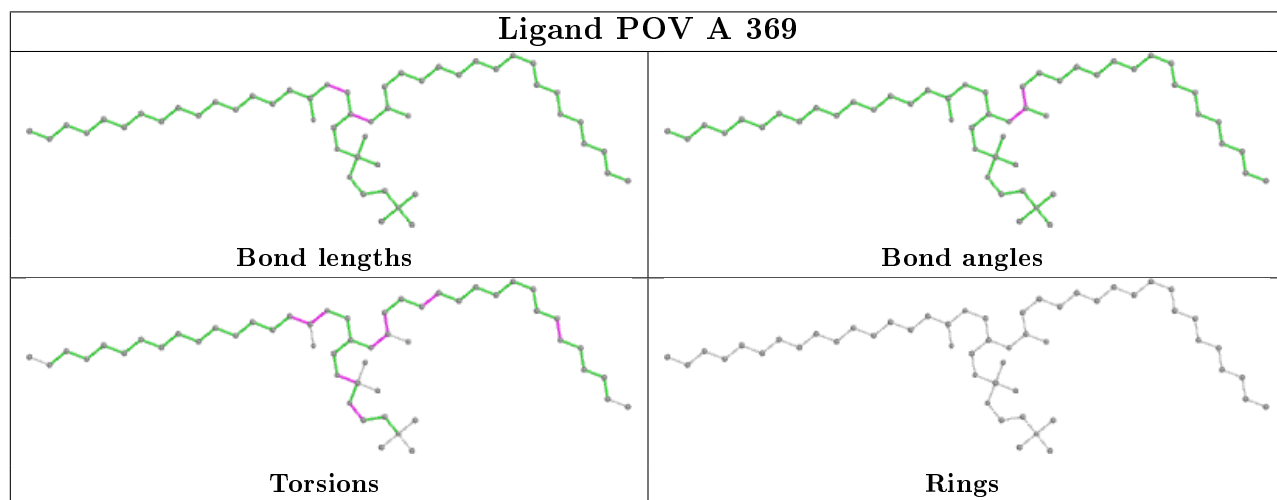
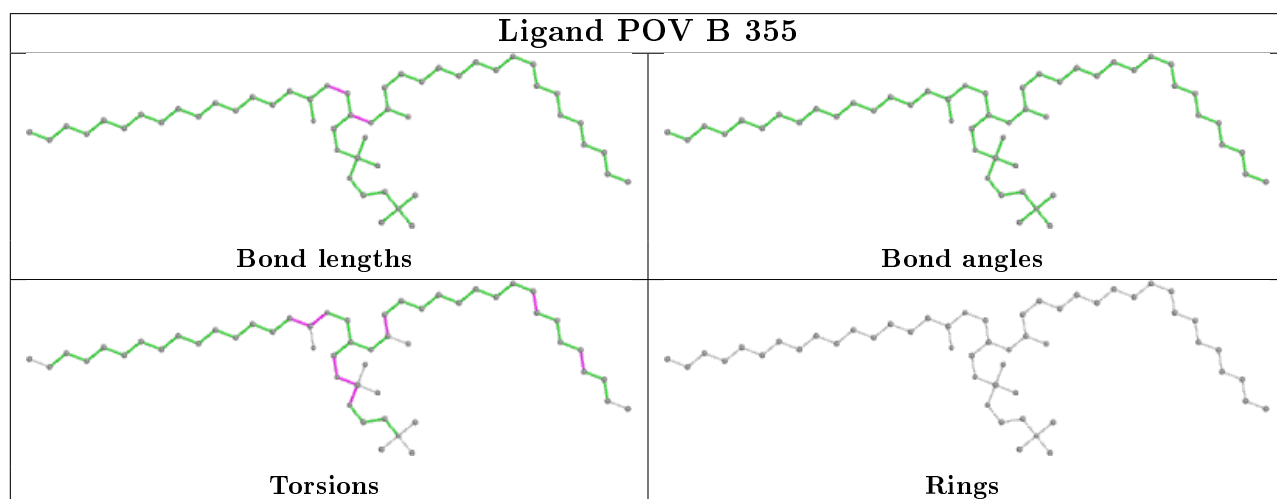
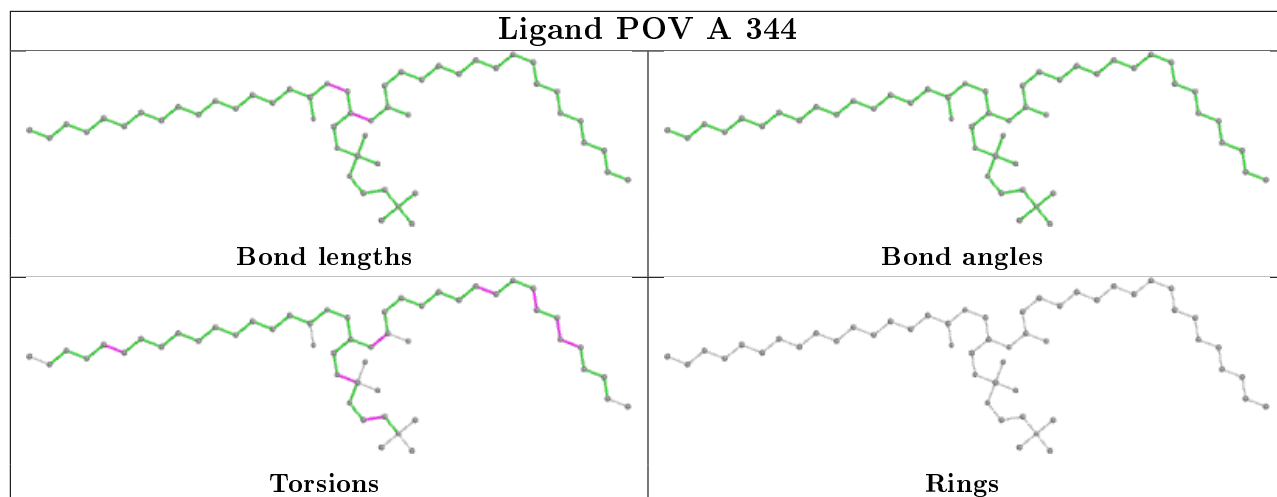


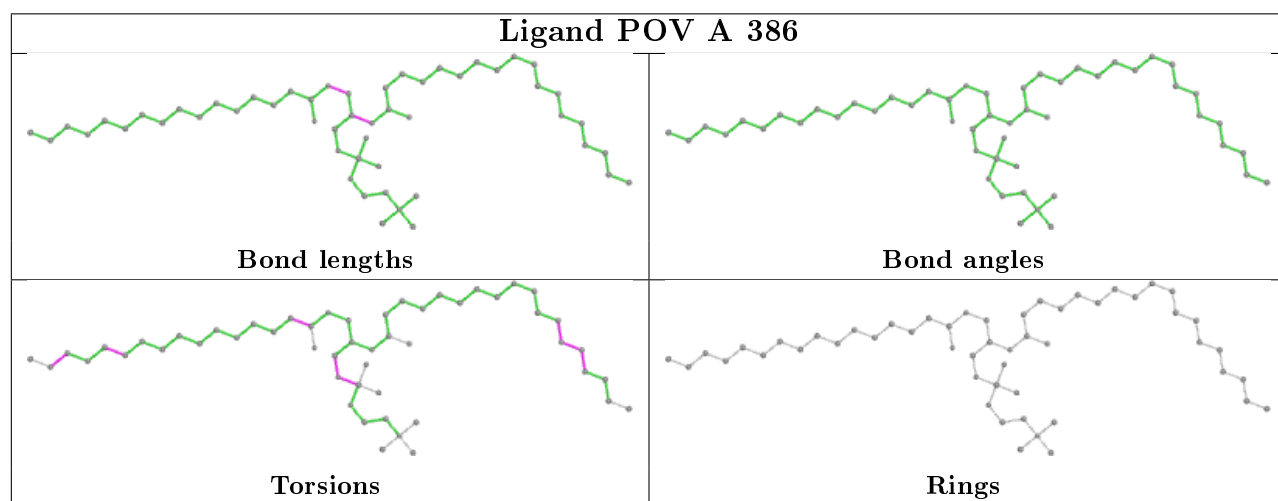
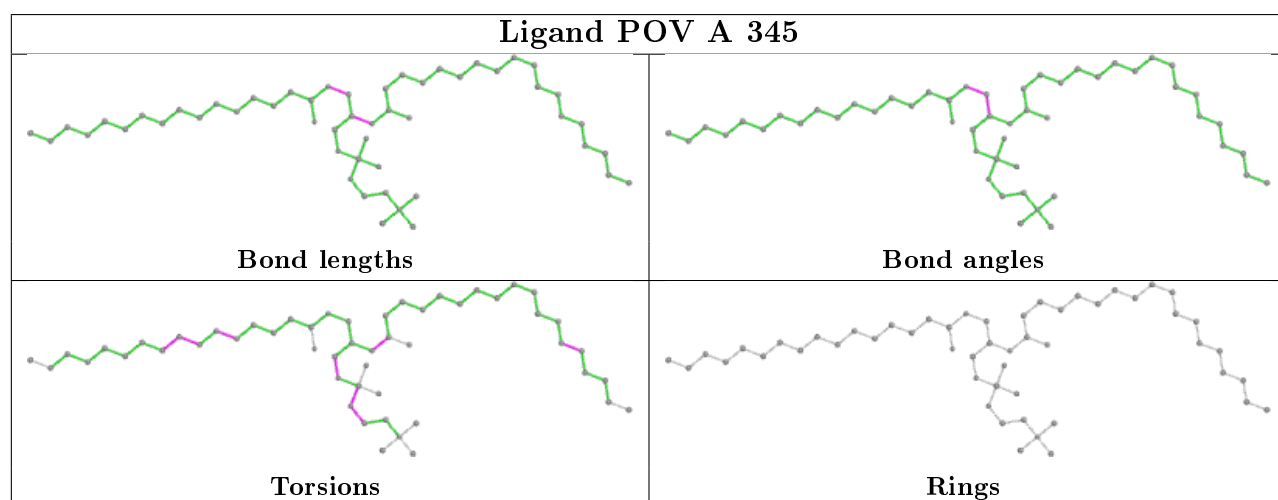
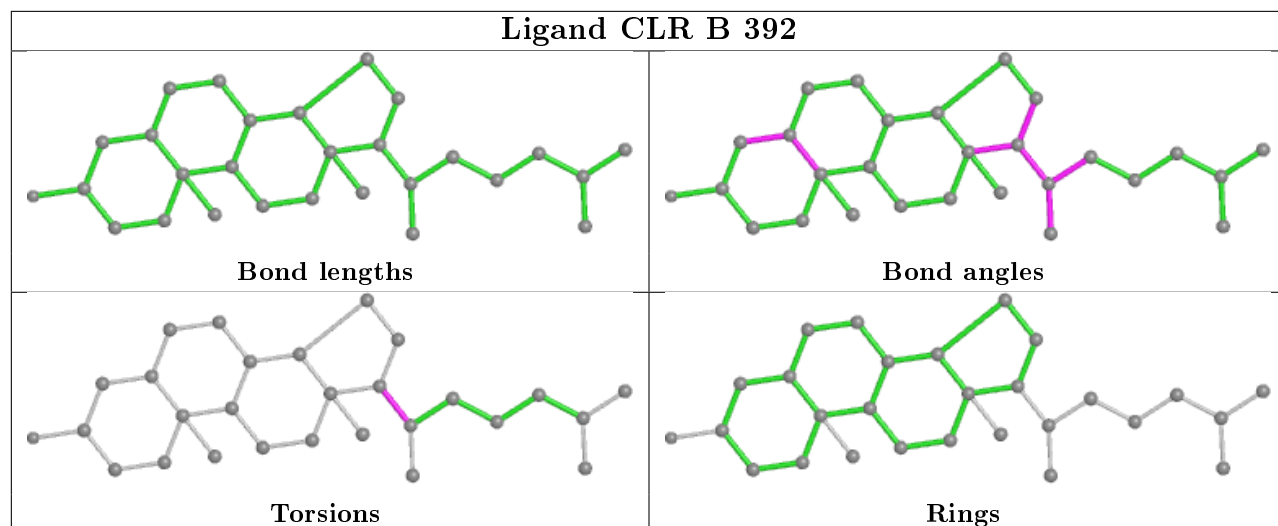


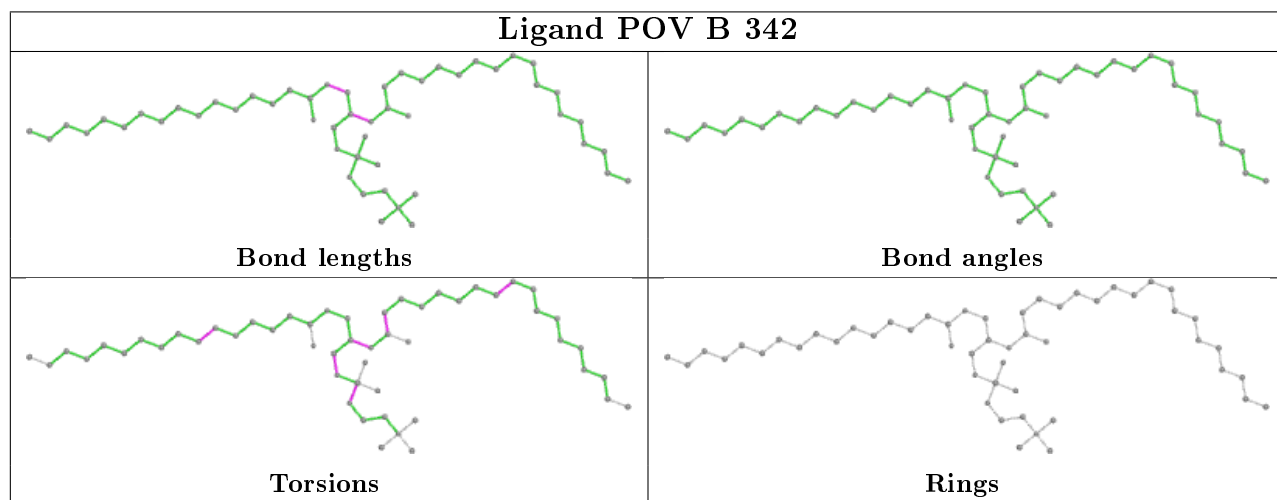
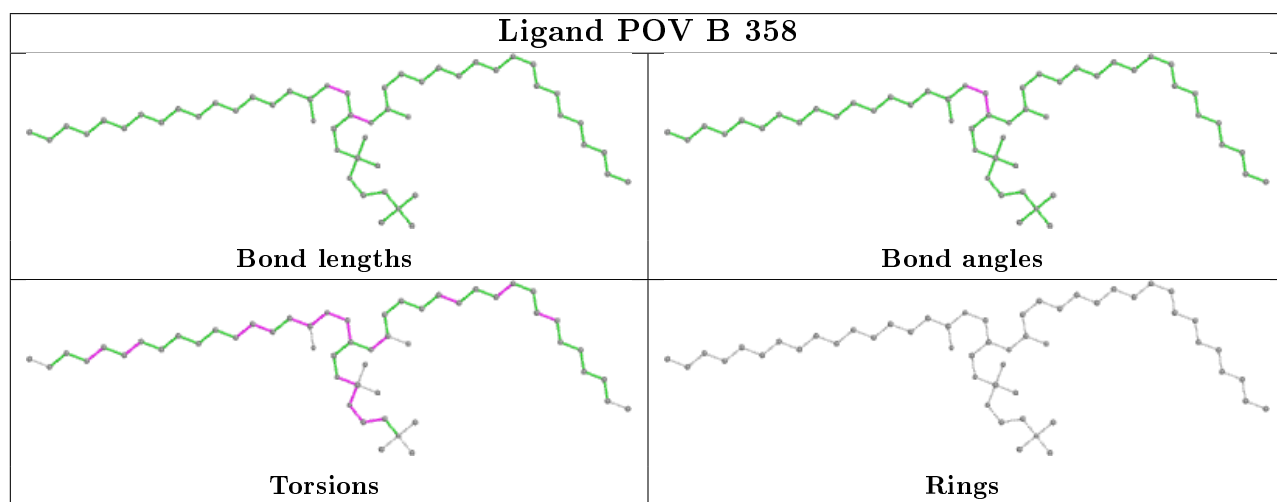
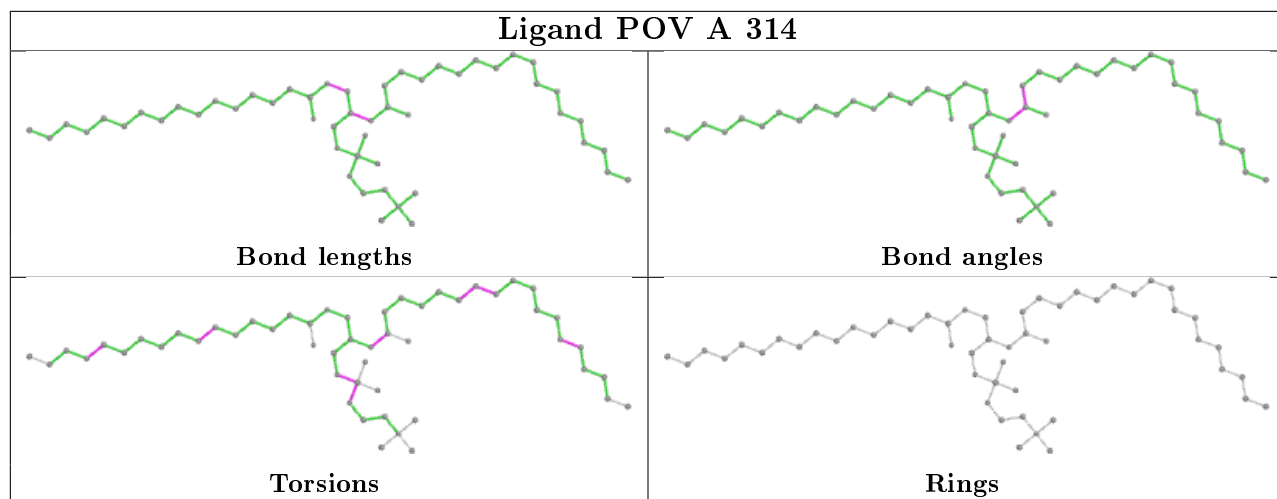


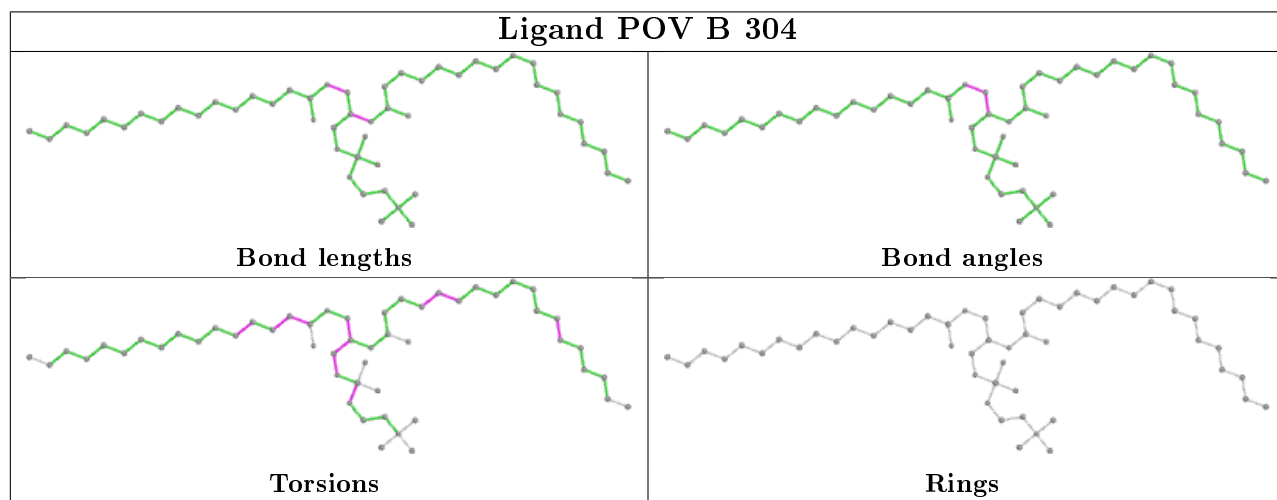
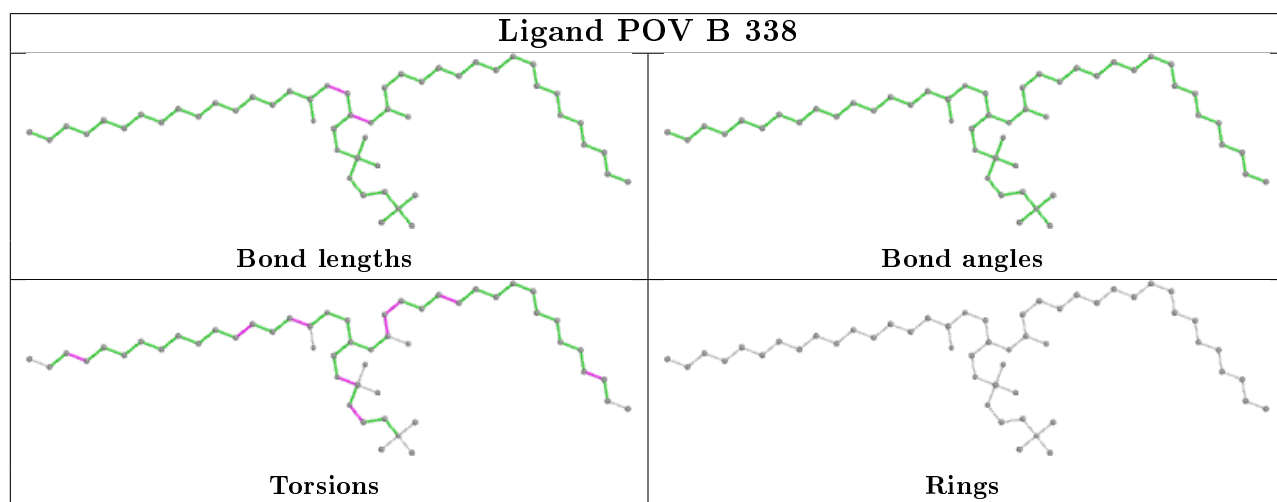
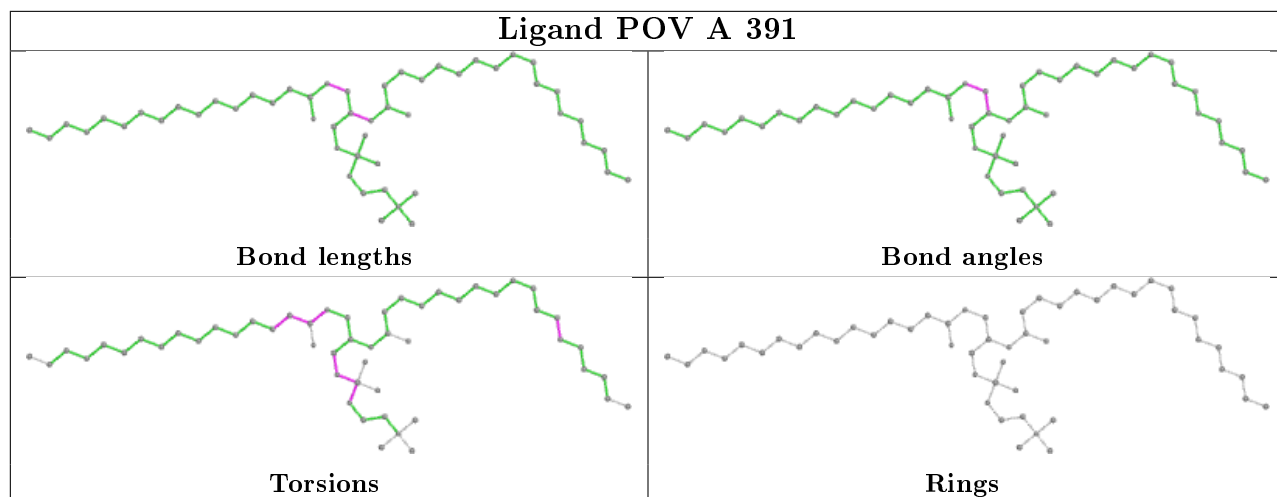


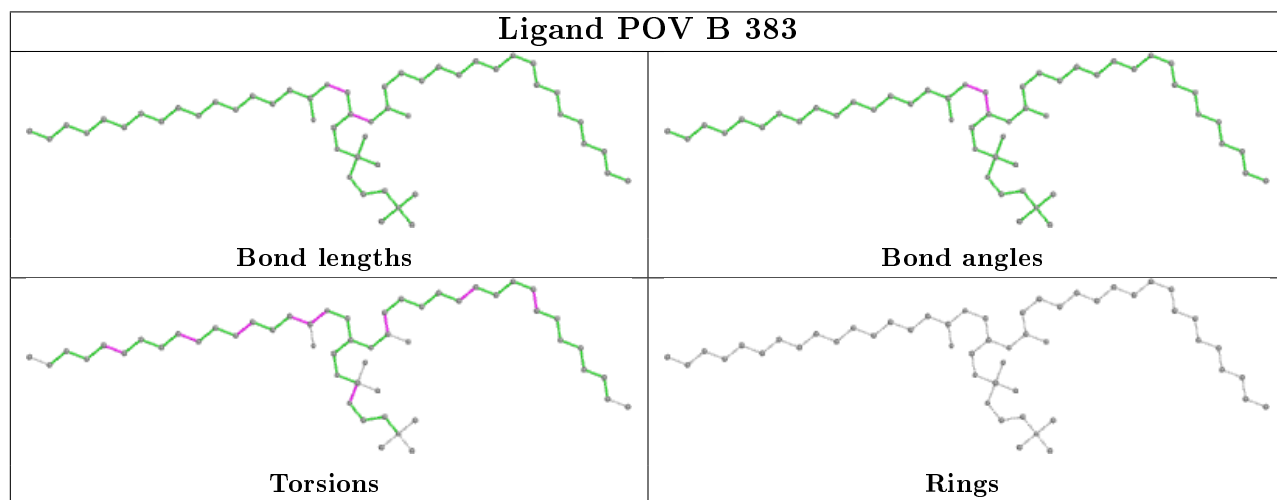
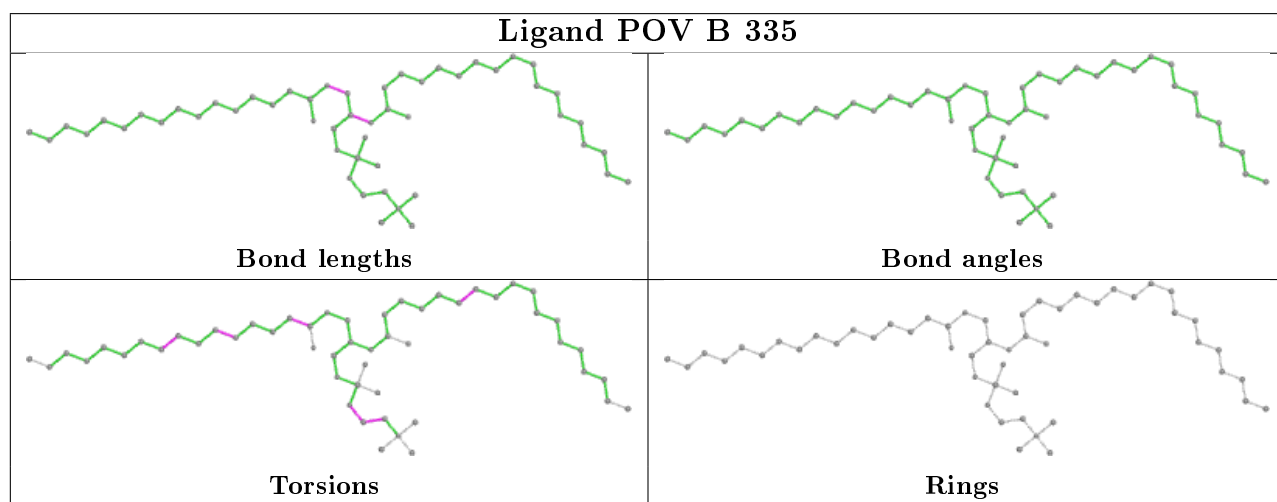
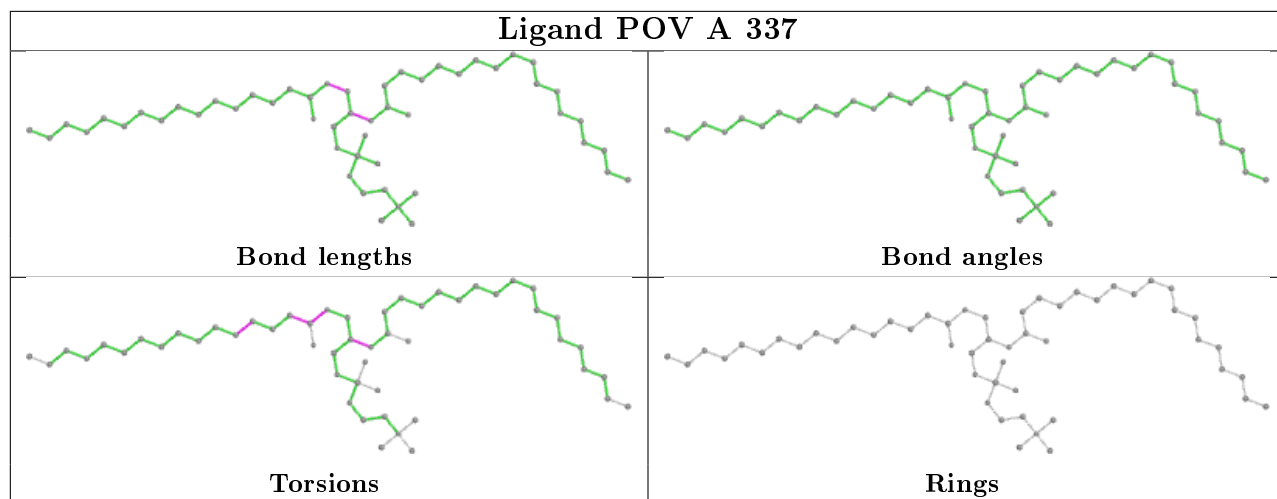




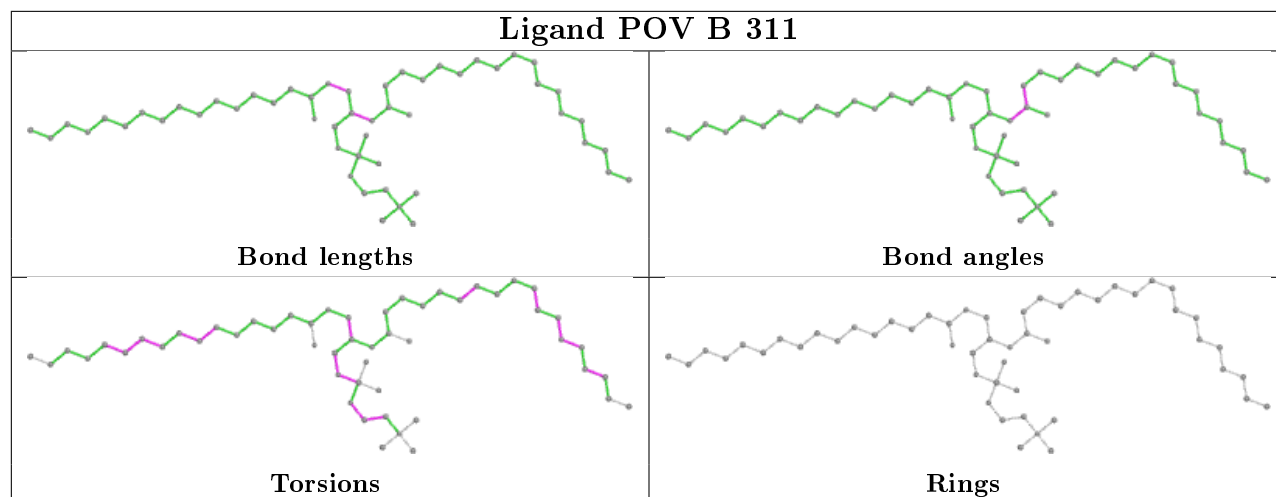












#### 4.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.