



Full wwPDB EM Validation Report ⓘ

Aug 9, 2021 – 12:11 pm BST

PDB ID : 7OVR
EMDB ID : EMD-13088
Title : Mature HIV-1 matrix structure
Authors : Qu, K.; Ke, Z.L.; Zila, V.; Anders-Oesswein, M.; Glass, B.; Muecksch, F.;
Mueller, R.; Schultz, C.; Mueller, B.; Kraeusslich, H.G.; Briggs, J.A.G.
Deposited on : 2021-06-15
Resolution : 7.00 Å (reported)
Based on initial models : 2H3V, 2H3Q

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

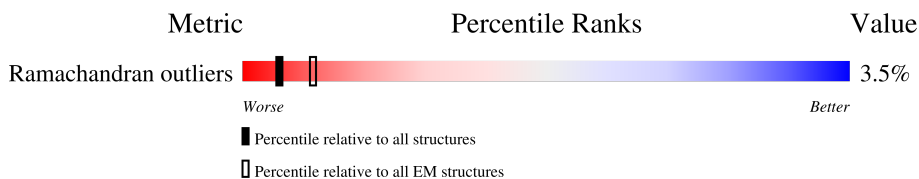
EMDB validation analysis : 0.0.0.dev97
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.23.1

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 7.00 Å.

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



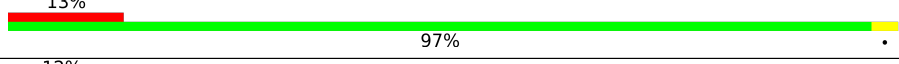
Metric	Whole archive (#Entries)	EM structures (#Entries)
Ramachandran outliers	154571	4023

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

Mol	Chain	Length	Quality of chain
1	A	115	9% 97% .
1	B	115	9% 97% .
1	C	115	9% 97% .
1	D	115	10% 97% .
1	E	115	9% 97% .
1	F	115	10% 97% .
1	H	115	14% 97% .
1	I	115	12% 97% .
1	J	115	12% 97% .
1	O	115	9% 97% .
1	P	115	9% 97% .

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	Q	115	 10% 97%
1	R	115	 9% 97%
1	S	115	 13% 97%
1	U	115	 13% 97%
1	W	115	 12% 97%
1	Y	115	 9% 97%
1	b	115	 10% 97%
1	c	115	 8% 97%
1	d	115	 9% 97%
1	e	115	 12% 97%
1	f	115	 13% 97%
1	j	115	 14% 97%
1	l	115	 9% 97%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 12528 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called HIV-1 matrix.

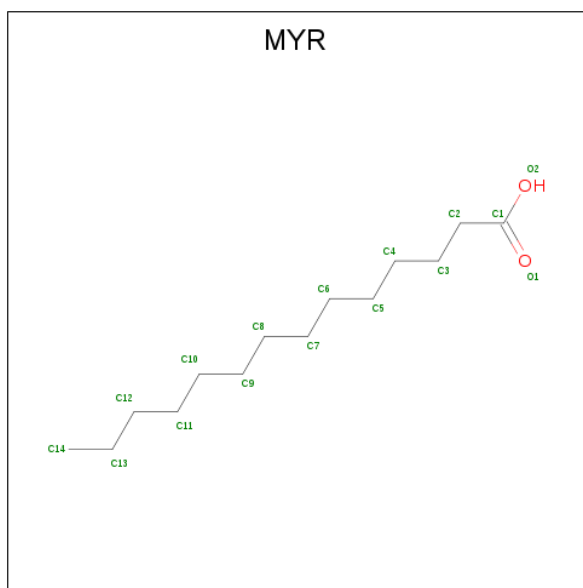
Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
1	A	115	460	230	115	115	0	0
1	B	115	460	230	115	115	0	0
1	C	115	460	230	115	115	0	0
1	D	115	460	230	115	115	0	0
1	E	115	460	230	115	115	0	0
1	F	115	460	230	115	115	0	0
1	H	115	460	230	115	115	0	0
1	I	115	460	230	115	115	0	0
1	J	115	460	230	115	115	0	0
1	O	115	460	230	115	115	0	0
1	P	115	460	230	115	115	0	0
1	Q	115	460	230	115	115	0	0
1	R	115	460	230	115	115	0	0
1	S	115	460	230	115	115	0	0
1	U	115	460	230	115	115	0	0
1	W	115	460	230	115	115	0	0
1	Y	115	460	230	115	115	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			AltConf	Trace	
1	b	115	Total	C	N	O	0	0
			460	230	115	115		
1	c	115	Total	C	N	O	0	0
			460	230	115	115		
1	d	115	Total	C	N	O	0	0
			460	230	115	115		
1	e	115	Total	C	N	O	0	0
			460	230	115	115		
1	f	115	Total	C	N	O	0	0
			460	230	115	115		
1	j	115	Total	C	N	O	0	0
			460	230	115	115		
1	l	115	Total	C	N	O	0	0
			460	230	115	115		

- Molecule 2 is MYRISTIC ACID (three-letter code: MYR) (formula: C₁₄H₂₈O₂) (labeled as "Ligand of Interest" by depositor).



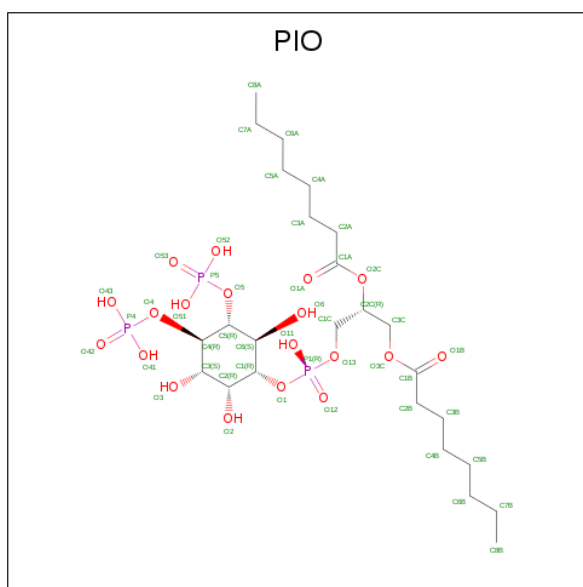
Mol	Chain	Residues	Atoms		AltConf
2	A	1	Total	C O	0
			15	14 1	
2	B	1	Total	C O	0
			15	14 1	
2	C	1	Total	C O	0
			15	14 1	
2	D	1	Total	C O	0
			15	14 1	

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
2	E	1	15	14	1	0
2	F	1	15	14	1	0
2	H	1	15	14	1	0
2	I	1	15	14	1	0
2	J	1	15	14	1	0
2	O	1	15	14	1	0
2	P	1	15	14	1	0
2	Q	1	15	14	1	0
2	R	1	15	14	1	0
2	S	1	15	14	1	0
2	U	1	15	14	1	0
2	W	1	15	14	1	0
2	Y	1	15	14	1	0
2	b	1	15	14	1	0
2	c	1	15	14	1	0
2	d	1	15	14	1	0
2	e	1	15	14	1	0
2	f	1	15	14	1	0
2	j	1	15	14	1	0
2	l	1	15	14	1	0

- Molecule 3 is [(2R)-2-octanoyloxy-3-[oxidanyl-[(1R,2R,3S,4R,5R,6S)-2,3,6-tris(oxidanyl)-4,5-diphosphonoxy-cyclohexyl]oxy-phosphoryl]oxy-propyl] octanoate (three-letter code: PIO) (formula: C₂₅H₄₉O₁₉P₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf	
			Total	C	O		P
3	A	1	47	25	19	3	0
3	B	1	47	25	19	3	0
3	C	1	47	25	19	3	0
3	D	1	47	25	19	3	0
3	E	1	47	25	19	3	0
3	F	1	47	25	19	3	0
3	H	1	47	25	19	3	0
3	I	1	47	25	19	3	0
3	J	1	47	25	19	3	0
3	O	1	47	25	19	3	0
3	P	1	47	25	19	3	0
3	Q	1	47	25	19	3	0
3	R	1	47	25	19	3	0
3	S	1	47	25	19	3	0

Continued on next page...

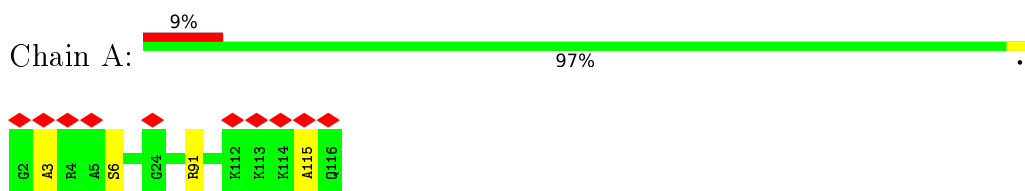
Continued from previous page...

Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	P	
3	U	1	Total 47	C 25	O 19	P 3	0
3	W	1	Total 47	C 25	O 19	P 3	0
3	Y	1	Total 47	C 25	O 19	P 3	0
3	b	1	Total 47	C 25	O 19	P 3	0
3	c	1	Total 47	C 25	O 19	P 3	0
3	d	1	Total 47	C 25	O 19	P 3	0
3	e	1	Total 47	C 25	O 19	P 3	0
3	f	1	Total 47	C 25	O 19	P 3	0
3	j	1	Total 47	C 25	O 19	P 3	0
3	l	1	Total 47	C 25	O 19	P 3	0

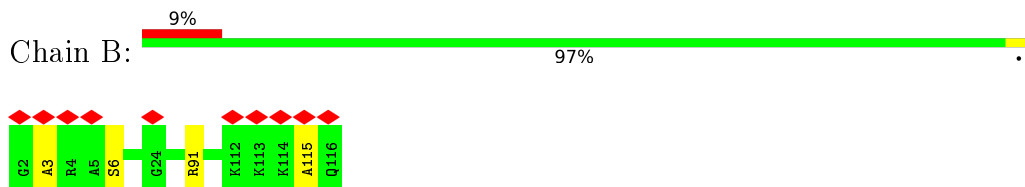
3 Residue-property plots [i](#)

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

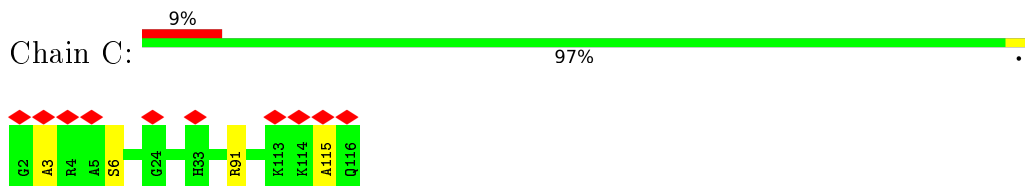
- Molecule 1: HIV-1 matrix



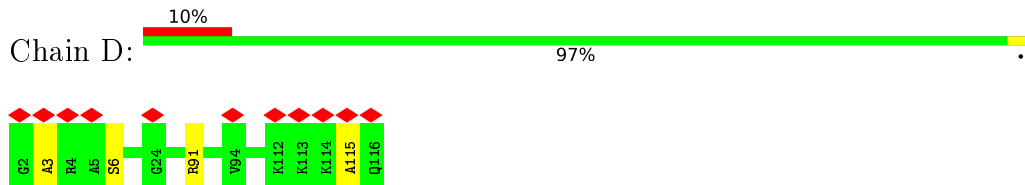
- Molecule 1: HIV-1 matrix



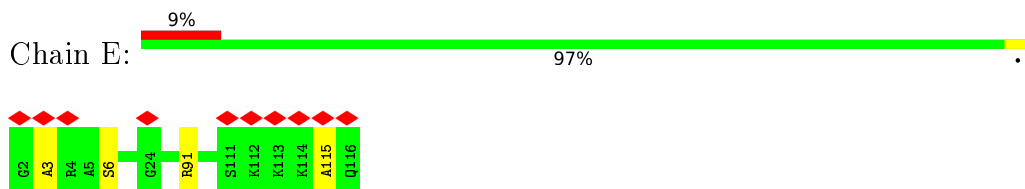
- Molecule 1: HIV-1 matrix



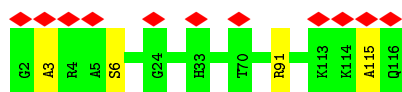
- Molecule 1: HIV-1 matrix



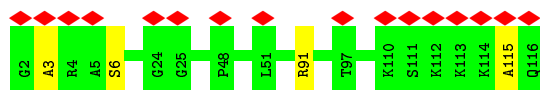
- Molecule 1: HIV-1 matrix



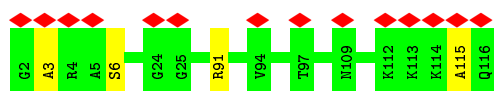
- Molecule 1: HIV-1 matrix



- Molecule 1: HIV-1 matrix



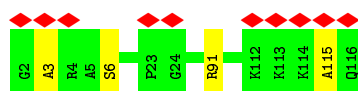
- Molecule 1: HIV-1 matrix



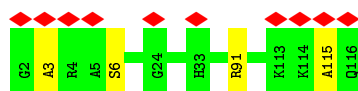
- Molecule 1: HIV-1 matrix



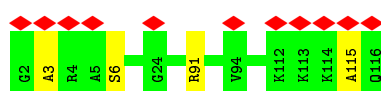
- Molecule 1: HIV-1 matrix



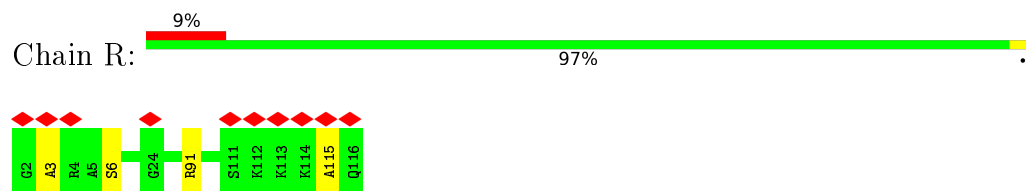
- Molecule 1: HIV-1 matrix



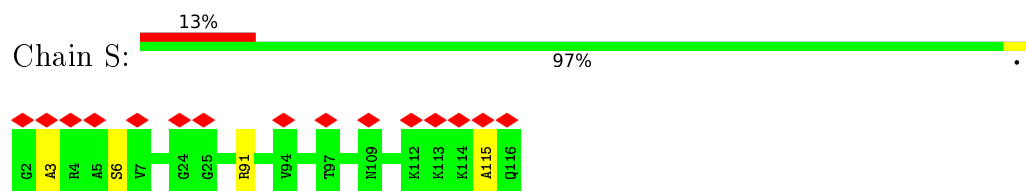
- Molecule 1: HIV-1 matrix



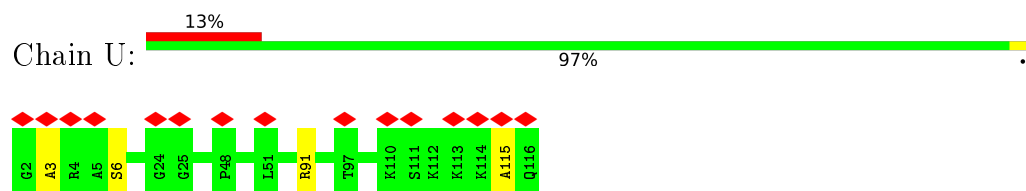
- Molecule 1: HIV-1 matrix



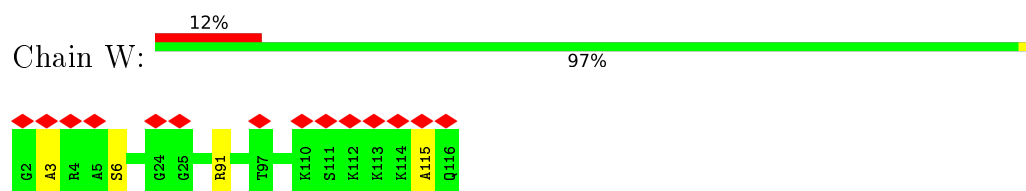
- Molecule 1: HIV-1 matrix



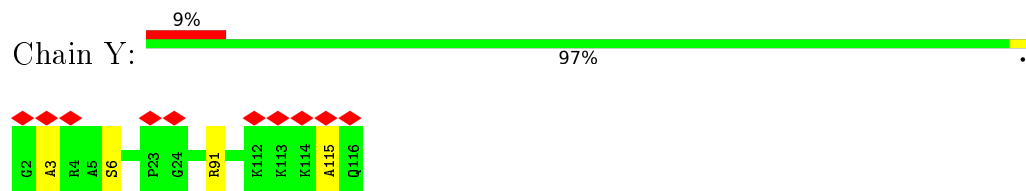
- Molecule 1: HIV-1 matrix



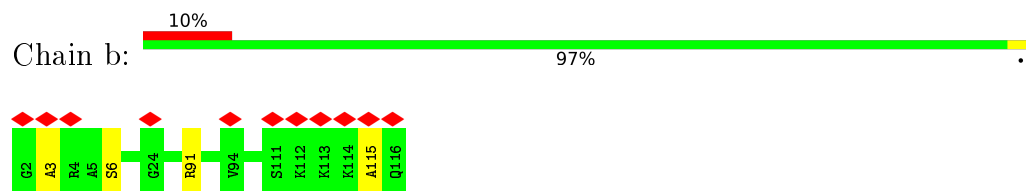
- Molecule 1: HIV-1 matrix



- Molecule 1: HIV-1 matrix

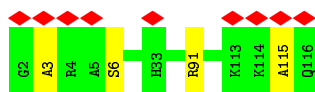


- Molecule 1: HIV-1 matrix

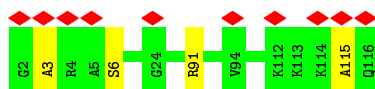


- Molecule 1: HIV-1 matrix

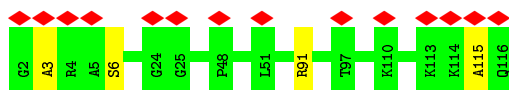




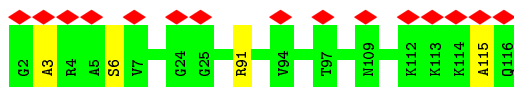
- Molecule 1: HIV-1 matrix



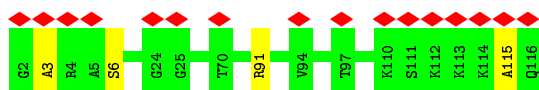
- Molecule 1: HIV-1 matrix



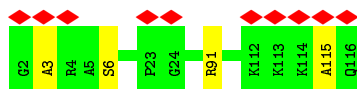
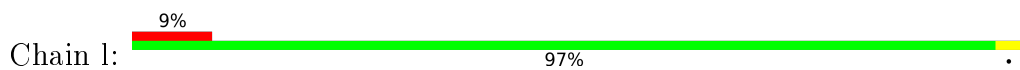
- Molecule 1: HIV-1 matrix



- Molecule 1: HIV-1 matrix



- Molecule 1: HIV-1 matrix



4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C3	Depositor
Number of subtomograms used	19586	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	3.5	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	105000	Depositor
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	16.922	Depositor
Minimum map value	-10.977	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2.0	Depositor
Map size (\AA)	259.2, 259.2, 259.2	wwPDB
Map dimensions	192, 192, 192	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.35, 1.35, 1.35	Depositor

5 Model quality

5.1 Standard geometry

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

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	0.17	0/459	0.30	0/572
1	B	0.17	0/459	0.30	0/572
1	C	0.17	0/459	0.30	0/572
1	D	0.17	0/459	0.30	0/572
1	E	0.17	0/459	0.30	0/572
1	F	0.17	0/459	0.30	0/572
1	H	0.17	0/459	0.30	0/572
1	I	0.18	0/459	0.30	0/572
1	J	0.17	0/459	0.30	0/572
1	O	0.17	0/459	0.30	0/572
1	P	0.17	0/459	0.30	0/572
1	Q	0.17	0/459	0.30	0/572
1	R	0.17	0/459	0.30	0/572
1	S	0.17	0/459	0.30	0/572
1	U	0.17	0/459	0.30	0/572
1	W	0.18	0/459	0.30	0/572
1	Y	0.17	0/459	0.30	0/572
1	b	0.17	0/459	0.30	0/572
1	c	0.17	0/459	0.30	0/572
1	d	0.18	0/459	0.30	0/572
1	e	0.17	0/459	0.30	0/572
1	f	0.17	0/459	0.30	0/572
1	j	0.17	0/459	0.30	0/572
1	l	0.17	0/459	0.30	0/572
All	All	0.17	0/11016	0.30	0/13728

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	B	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	C	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	D	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	E	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	F	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	H	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	I	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	J	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	O	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	P	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	Q	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	R	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	S	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	U	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	W	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	Y	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	b	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	c	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	d	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	e	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	f	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	j	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
1	l	113/115 (98%)	103 (91%)	6 (5%)	4 (4%)	3	25
All	All	2712/2760 (98%)	2472 (91%)	144 (5%)	96 (4%)	6	25

All (96) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	91	ARG
1	B	6	SER
1	B	91	ARG
1	C	91	ARG
1	D	91	ARG
1	E	91	ARG
1	F	91	ARG
1	H	91	ARG
1	I	6	SER
1	I	91	ARG
1	J	91	ARG
1	O	91	ARG
1	P	91	ARG
1	Q	91	ARG
1	R	6	SER
1	R	91	ARG
1	S	91	ARG
1	U	6	SER
1	U	91	ARG
1	W	91	ARG
1	Y	91	ARG
1	b	91	ARG
1	c	6	SER
1	c	91	ARG
1	d	91	ARG
1	e	91	ARG
1	f	91	ARG
1	j	91	ARG
1	l	91	ARG
1	A	6	SER
1	A	115	ALA
1	B	115	ALA
1	C	6	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	115	ALA
1	D	6	SER
1	D	115	ALA
1	E	6	SER
1	E	115	ALA
1	F	6	SER
1	F	115	ALA
1	H	6	SER
1	H	115	ALA
1	I	115	ALA
1	J	6	SER
1	J	115	ALA
1	O	6	SER
1	O	115	ALA
1	P	6	SER
1	P	115	ALA
1	Q	6	SER
1	Q	115	ALA
1	R	115	ALA
1	S	6	SER
1	S	115	ALA
1	U	115	ALA
1	W	6	SER
1	W	115	ALA
1	Y	6	SER
1	Y	115	ALA
1	b	6	SER
1	b	115	ALA
1	c	115	ALA
1	d	6	SER
1	d	115	ALA
1	e	6	SER
1	e	115	ALA
1	f	6	SER
1	f	115	ALA
1	j	6	SER
1	j	115	ALA
1	l	6	SER
1	l	115	ALA
1	A	3	ALA
1	B	3	ALA
1	C	3	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	3	ALA
1	E	3	ALA
1	F	3	ALA
1	H	3	ALA
1	I	3	ALA
1	J	3	ALA
1	O	3	ALA
1	P	3	ALA
1	Q	3	ALA
1	R	3	ALA
1	S	3	ALA
1	U	3	ALA
1	W	3	ALA
1	Y	3	ALA
1	b	3	ALA
1	c	3	ALA
1	d	3	ALA
1	e	3	ALA
1	f	3	ALA
1	j	3	ALA
1	l	3	ALA

5.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry

48 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
3	PIO	d	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	d	201	1	14,14,15	0.56	0	13,13,15	0.50	0
3	PIO	H	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
3	PIO	Y	202	-	47,47,47	1.51	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	I	201	1	14,14,15	0.56	0	13,13,15	0.49	0
2	MYR	H	201	1	14,14,15	0.56	0	13,13,15	0.50	0
2	MYR	D	201	1	14,14,15	0.56	0	13,13,15	0.49	0
2	MYR	E	201	1	14,14,15	0.56	0	13,13,15	0.49	0
2	MYR	J	201	1	14,14,15	0.56	0	13,13,15	0.49	0
2	MYR	e	201	1	14,14,15	0.56	0	13,13,15	0.49	0
2	MYR	P	201	1	14,14,15	0.56	0	13,13,15	0.50	0
2	MYR	c	201	1	14,14,15	0.56	0	13,13,15	0.49	0
3	PIO	B	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	B	201	1	14,14,15	0.56	0	13,13,15	0.49	0
3	PIO	Q	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
3	PIO	c	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	F	201	1	14,14,15	0.56	0	13,13,15	0.50	0
3	PIO	e	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	f	201	1	14,14,15	0.56	0	13,13,15	0.49	0
3	PIO	I	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.23	5 (8%)
3	PIO	W	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	U	201	1	14,14,15	0.56	0	13,13,15	0.49	0
3	PIO	D	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
3	PIO	P	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	j	201	1	14,14,15	0.56	0	13,13,15	0.49	0
3	PIO	j	202	-	47,47,47	1.51	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	l	201	1	14,14,15	0.56	0	13,13,15	0.49	0
3	PIO	J	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	Y	201	1	14,14,15	0.56	0	13,13,15	0.49	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	MYR	O	201	1	14,14,15	0.56	0	13,13,15	0.49	0
3	PIO	l	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	R	201	1	14,14,15	0.57	0	13,13,15	0.50	0
3	PIO	E	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	b	201	1	14,14,15	0.57	0	13,13,15	0.50	0
2	MYR	Q	201	1	14,14,15	0.57	0	13,13,15	0.50	0
2	MYR	A	201	1	14,14,15	0.56	0	13,13,15	0.49	0
3	PIO	O	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
3	PIO	F	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
3	PIO	U	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
3	PIO	A	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	C	201	1	14,14,15	0.56	0	13,13,15	0.49	0
3	PIO	C	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	W	201	1	14,14,15	0.56	0	13,13,15	0.49	0
3	PIO	f	202	-	47,47,47	1.51	10 (21%)	61,65,65	1.23	5 (8%)
3	PIO	R	202	-	47,47,47	1.51	10 (21%)	61,65,65	1.22	5 (8%)
3	PIO	S	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
3	PIO	b	202	-	47,47,47	1.52	10 (21%)	61,65,65	1.22	5 (8%)
2	MYR	S	201	1	14,14,15	0.56	0	13,13,15	0.49	0

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
3	PIO	d	202	-	-	19/44/68/68	0/1/1/1
2	MYR	d	201	1	-	7/11/12/13	-
3	PIO	H	202	-	-	19/44/68/68	0/1/1/1
3	PIO	Y	202	-	-	19/44/68/68	0/1/1/1
2	MYR	I	201	1	-	7/11/12/13	-
2	MYR	H	201	1	-	7/11/12/13	-
2	MYR	D	201	1	-	7/11/12/13	-
2	MYR	E	201	1	-	7/11/12/13	-
2	MYR	J	201	1	-	7/11/12/13	-
2	MYR	e	201	1	-	7/11/12/13	-
2	MYR	P	201	1	-	7/11/12/13	-

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MYR	c	201	1	-	7/11/12/13	-
3	PIO	B	202	-	-	19/44/68/68	0/1/1/1
2	MYR	B	201	1	-	7/11/12/13	-
3	PIO	Q	202	-	-	19/44/68/68	0/1/1/1
3	PIO	c	202	-	-	19/44/68/68	0/1/1/1
2	MYR	F	201	1	-	7/11/12/13	-
3	PIO	e	202	-	-	19/44/68/68	0/1/1/1
2	MYR	f	201	1	-	7/11/12/13	-
3	PIO	I	202	-	-	19/44/68/68	0/1/1/1
3	PIO	W	202	-	-	19/44/68/68	0/1/1/1
2	MYR	U	201	1	-	7/11/12/13	-
3	PIO	D	202	-	-	19/44/68/68	0/1/1/1
3	PIO	P	202	-	-	19/44/68/68	0/1/1/1
2	MYR	j	201	1	-	7/11/12/13	-
3	PIO	j	202	-	-	19/44/68/68	0/1/1/1
2	MYR	l	201	1	-	7/11/12/13	-
3	PIO	J	202	-	-	19/44/68/68	0/1/1/1
2	MYR	Y	201	1	-	7/11/12/13	-
2	MYR	O	201	1	-	7/11/12/13	-
3	PIO	l	202	-	-	19/44/68/68	0/1/1/1
2	MYR	R	201	1	-	7/11/12/13	-
3	PIO	E	202	-	-	19/44/68/68	0/1/1/1
2	MYR	b	201	1	-	7/11/12/13	-
2	MYR	Q	201	1	-	7/11/12/13	-
2	MYR	A	201	1	-	7/11/12/13	-
3	PIO	O	202	-	-	19/44/68/68	0/1/1/1
3	PIO	F	202	-	-	19/44/68/68	0/1/1/1
3	PIO	U	202	-	-	19/44/68/68	0/1/1/1
3	PIO	A	202	-	-	19/44/68/68	0/1/1/1
2	MYR	C	201	1	-	7/11/12/13	-
3	PIO	C	202	-	-	19/44/68/68	0/1/1/1
2	MYR	W	201	1	-	7/11/12/13	-
3	PIO	f	202	-	-	19/44/68/68	0/1/1/1
3	PIO	R	202	-	-	19/44/68/68	0/1/1/1

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PIO	S	202	-	-	19/44/68/68	0/1/1/1
3	PIO	b	202	-	-	19/44/68/68	0/1/1/1
2	MYR	S	201	1	-	7/11/12/13	-

All (240) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	b	202	PIO	P4-O4	4.10	1.67	1.59
3	W	202	PIO	P4-O4	4.10	1.67	1.59
3	P	202	PIO	P4-O4	4.09	1.67	1.59
3	C	202	PIO	P4-O4	4.08	1.67	1.59
3	J	202	PIO	P4-O4	4.08	1.67	1.59
3	d	202	PIO	P4-O4	4.08	1.67	1.59
3	S	202	PIO	P4-O4	4.07	1.67	1.59
3	e	202	PIO	P4-O4	4.07	1.67	1.59
3	B	202	PIO	P4-O4	4.07	1.67	1.59
3	I	202	PIO	P4-O4	4.07	1.67	1.59
3	A	202	PIO	P4-O4	4.07	1.67	1.59
3	O	202	PIO	P4-O4	4.07	1.67	1.59
3	E	202	PIO	P4-O4	4.06	1.67	1.59
3	Q	202	PIO	P4-O4	4.06	1.67	1.59
3	F	202	PIO	P4-O4	4.06	1.67	1.59
3	R	202	PIO	P4-O4	4.06	1.67	1.59
3	D	202	PIO	P4-O4	4.05	1.67	1.59
3	j	202	PIO	P4-O4	4.05	1.66	1.59
3	f	202	PIO	P4-O4	4.04	1.66	1.59
3	U	202	PIO	P4-O4	4.04	1.66	1.59
3	H	202	PIO	P4-O4	4.04	1.66	1.59
3	c	202	PIO	P4-O4	4.04	1.66	1.59
3	l	202	PIO	P4-O4	4.04	1.66	1.59
3	Y	202	PIO	P4-O4	4.03	1.66	1.59
3	l	202	PIO	P5-O5	3.26	1.65	1.59
3	I	202	PIO	P5-O5	3.26	1.65	1.59
3	P	202	PIO	P5-O5	3.25	1.65	1.59
3	Q	202	PIO	P5-O5	3.25	1.65	1.59
3	B	202	PIO	P5-O5	3.24	1.65	1.59
3	C	202	PIO	P5-O5	3.23	1.65	1.59
3	j	202	PIO	P5-O5	3.23	1.65	1.59
3	J	202	PIO	P5-O5	3.23	1.65	1.59
3	e	202	PIO	P5-O5	3.23	1.65	1.59
3	F	202	PIO	P5-O5	3.23	1.65	1.59
3	H	202	PIO	P5-O5	3.23	1.65	1.59

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	d	202	PIO	P5-O5	3.22	1.65	1.59
3	A	202	PIO	P5-O5	3.22	1.65	1.59
3	S	202	PIO	P5-O5	3.22	1.65	1.59
3	c	202	PIO	P5-O5	3.22	1.65	1.59
3	f	202	PIO	P5-O5	3.22	1.65	1.59
3	W	202	PIO	P5-O5	3.21	1.65	1.59
3	E	202	PIO	P5-O5	3.21	1.65	1.59
3	O	202	PIO	P5-O5	3.21	1.65	1.59
3	b	202	PIO	P5-O5	3.21	1.65	1.59
3	R	202	PIO	P5-O5	3.20	1.65	1.59
3	U	202	PIO	P5-O5	3.20	1.65	1.59
3	D	202	PIO	P5-O5	3.19	1.65	1.59
3	Y	202	PIO	P5-O5	3.18	1.65	1.59
3	U	202	PIO	C5-C4	3.03	1.58	1.52
3	d	202	PIO	C5-C4	3.03	1.58	1.52
3	S	202	PIO	C5-C4	3.02	1.58	1.52
3	I	202	PIO	C5-C4	3.02	1.58	1.52
3	W	202	PIO	C5-C4	3.02	1.58	1.52
3	O	202	PIO	C5-C4	3.02	1.58	1.52
3	F	202	PIO	C5-C4	3.01	1.58	1.52
3	b	202	PIO	C5-C4	3.01	1.58	1.52
3	Q	202	PIO	C5-C4	3.01	1.58	1.52
3	P	202	PIO	C5-C4	3.01	1.58	1.52
3	c	202	PIO	C5-C4	3.00	1.58	1.52
3	f	202	PIO	C5-C4	3.00	1.58	1.52
3	J	202	PIO	C5-C4	2.99	1.58	1.52
3	R	202	PIO	C5-C4	2.99	1.58	1.52
3	A	202	PIO	C5-C4	2.99	1.58	1.52
3	D	202	PIO	C5-C4	2.99	1.58	1.52
3	B	202	PIO	C5-C4	2.98	1.58	1.52
3	l	202	PIO	C5-C4	2.98	1.58	1.52
3	C	202	PIO	C5-C4	2.98	1.58	1.52
3	e	202	PIO	C5-C4	2.98	1.58	1.52
3	H	202	PIO	C5-C4	2.97	1.58	1.52
3	E	202	PIO	C5-C4	2.97	1.58	1.52
3	Y	202	PIO	C5-C4	2.97	1.58	1.52
3	j	202	PIO	C5-C4	2.96	1.58	1.52
3	W	202	PIO	O2C-C1A	2.80	1.42	1.34
3	H	202	PIO	O2C-C1A	2.79	1.42	1.34
3	Y	202	PIO	O2C-C1A	2.79	1.42	1.34
3	P	202	PIO	O2C-C1A	2.79	1.42	1.34
3	U	202	PIO	O2C-C1A	2.78	1.42	1.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	e	202	PIO	O2C-C1A	2.78	1.42	1.34
3	d	202	PIO	O2C-C1A	2.78	1.42	1.34
3	H	202	PIO	O3C-C1B	2.78	1.41	1.33
3	O	202	PIO	O2C-C1A	2.78	1.42	1.34
3	f	202	PIO	O2C-C1A	2.78	1.42	1.34
3	E	202	PIO	O3C-C1B	2.78	1.41	1.33
3	E	202	PIO	P1-O1	2.78	1.67	1.60
3	b	202	PIO	O2C-C1A	2.77	1.42	1.34
3	R	202	PIO	O2C-C1A	2.77	1.42	1.34
3	A	202	PIO	O2C-C1A	2.77	1.42	1.34
3	Q	202	PIO	O2C-C1A	2.77	1.42	1.34
3	l	202	PIO	O2C-C1A	2.77	1.42	1.34
3	C	202	PIO	O2C-C1A	2.77	1.42	1.34
3	U	202	PIO	O3C-C1B	2.77	1.41	1.33
3	c	202	PIO	O2C-C1A	2.77	1.42	1.34
3	j	202	PIO	O2C-C1A	2.77	1.42	1.34
3	S	202	PIO	O2C-C1A	2.77	1.42	1.34
3	Y	202	PIO	O3C-C1B	2.77	1.41	1.33
3	F	202	PIO	O3C-C1B	2.77	1.41	1.33
3	c	202	PIO	O3C-C1B	2.77	1.41	1.33
3	I	202	PIO	O3C-C1B	2.77	1.41	1.33
3	S	202	PIO	O3C-C1B	2.76	1.41	1.33
3	I	202	PIO	O2C-C1A	2.76	1.42	1.34
3	l	202	PIO	O3C-C1B	2.76	1.41	1.33
3	E	202	PIO	O2C-C1A	2.76	1.42	1.34
3	D	202	PIO	O2C-C1A	2.76	1.42	1.34
3	U	202	PIO	P1-O1	2.76	1.67	1.60
3	F	202	PIO	P1-O1	2.76	1.67	1.60
3	O	202	PIO	O3C-C1B	2.76	1.41	1.33
3	J	202	PIO	O3C-C1B	2.76	1.41	1.33
3	j	202	PIO	P1-O1	2.75	1.67	1.60
3	e	202	PIO	P1-O1	2.75	1.67	1.60
3	B	202	PIO	O3C-C1B	2.75	1.41	1.33
3	B	202	PIO	O2C-C1A	2.75	1.42	1.34
3	J	202	PIO	O2C-C1A	2.75	1.42	1.34
3	H	202	PIO	P1-O1	2.75	1.67	1.60
3	c	202	PIO	P1-O1	2.75	1.67	1.60
3	j	202	PIO	O3C-C1B	2.75	1.41	1.33
3	F	202	PIO	O2C-C1A	2.75	1.42	1.34
3	d	202	PIO	O3C-C1B	2.75	1.41	1.33
3	C	202	PIO	O3C-C1B	2.75	1.41	1.33
3	W	202	PIO	O3C-C1B	2.75	1.41	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	l	202	PIO	P1-O1	2.75	1.67	1.60
3	A	202	PIO	O3C-C1B	2.75	1.41	1.33
3	e	202	PIO	O3C-C1B	2.75	1.41	1.33
3	b	202	PIO	O3C-C1B	2.74	1.41	1.33
3	d	202	PIO	P1-O1	2.74	1.67	1.60
3	W	202	PIO	P1-O1	2.74	1.67	1.60
3	P	202	PIO	O3C-C1B	2.74	1.41	1.33
3	A	202	PIO	P1-O1	2.74	1.67	1.60
3	C	202	PIO	P1-O1	2.74	1.67	1.60
3	D	202	PIO	O3C-C1B	2.74	1.41	1.33
3	R	202	PIO	P1-O1	2.74	1.67	1.60
3	D	202	PIO	P1-O1	2.74	1.67	1.60
3	Q	202	PIO	O3C-C1B	2.73	1.41	1.33
3	f	202	PIO	P1-O1	2.73	1.67	1.60
3	b	202	PIO	P1-O1	2.73	1.67	1.60
3	J	202	PIO	P1-O1	2.73	1.67	1.60
3	R	202	PIO	O3C-C1B	2.73	1.41	1.33
3	f	202	PIO	O3C-C1B	2.73	1.41	1.33
3	P	202	PIO	P1-O1	2.73	1.67	1.60
3	Y	202	PIO	P1-O1	2.73	1.67	1.60
3	I	202	PIO	P1-O1	2.73	1.67	1.60
3	Q	202	PIO	P1-O1	2.73	1.67	1.60
3	B	202	PIO	P1-O1	2.72	1.67	1.60
3	O	202	PIO	P1-O1	2.72	1.67	1.60
3	S	202	PIO	P1-O1	2.72	1.67	1.60
3	d	202	PIO	O1-C1	2.71	1.54	1.44
3	Q	202	PIO	O1-C1	2.71	1.54	1.44
3	J	202	PIO	O1-C1	2.71	1.54	1.44
3	B	202	PIO	O1-C1	2.71	1.54	1.44
3	I	202	PIO	O1-C1	2.71	1.53	1.44
3	e	202	PIO	O1-C1	2.71	1.53	1.44
3	P	202	PIO	O1-C1	2.71	1.53	1.44
3	l	202	PIO	O1-C1	2.70	1.53	1.44
3	U	202	PIO	O1-C1	2.70	1.53	1.44
3	j	202	PIO	O1-C1	2.70	1.53	1.44
3	b	202	PIO	O1-C1	2.70	1.53	1.44
3	A	202	PIO	O1-C1	2.70	1.53	1.44
3	C	202	PIO	O1-C1	2.70	1.53	1.44
3	F	202	PIO	O1-C1	2.70	1.53	1.44
3	R	202	PIO	O1-C1	2.70	1.53	1.44
3	D	202	PIO	O1-C1	2.70	1.53	1.44
3	E	202	PIO	O1-C1	2.69	1.53	1.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	c	202	PIO	O1-C1	2.69	1.53	1.44
3	f	202	PIO	O1-C1	2.69	1.53	1.44
3	Y	202	PIO	O1-C1	2.69	1.53	1.44
3	O	202	PIO	O1-C1	2.69	1.53	1.44
3	W	202	PIO	O1-C1	2.69	1.53	1.44
3	S	202	PIO	O1-C1	2.69	1.53	1.44
3	H	202	PIO	O1-C1	2.68	1.53	1.44
3	P	202	PIO	C3-C4	2.30	1.58	1.52
3	C	202	PIO	O4-C4	2.30	1.52	1.44
3	Y	202	PIO	O4-C4	2.30	1.52	1.44
3	S	202	PIO	C3-C4	2.30	1.58	1.52
3	D	202	PIO	O4-C4	2.30	1.52	1.44
3	R	202	PIO	O4-C4	2.29	1.52	1.44
3	l	202	PIO	O4-C4	2.29	1.52	1.44
3	F	202	PIO	O4-C4	2.29	1.52	1.44
3	R	202	PIO	C3-C4	2.29	1.58	1.52
3	Q	202	PIO	O4-C4	2.29	1.52	1.44
3	D	202	PIO	C3-C4	2.29	1.58	1.52
3	j	202	PIO	O4-C4	2.29	1.52	1.44
3	Q	202	PIO	C3-C4	2.28	1.58	1.52
3	d	202	PIO	C3-C4	2.28	1.58	1.52
3	H	202	PIO	O4-C4	2.28	1.52	1.44
3	c	202	PIO	C3-C4	2.28	1.58	1.52
3	e	202	PIO	O4-C4	2.28	1.52	1.44
3	C	202	PIO	C3-C4	2.28	1.58	1.52
3	W	202	PIO	C3-C4	2.28	1.58	1.52
3	I	202	PIO	C3-C4	2.28	1.58	1.52
3	E	202	PIO	C3-C4	2.28	1.58	1.52
3	A	202	PIO	O4-C4	2.28	1.52	1.44
3	W	202	PIO	O4-C4	2.28	1.52	1.44
3	e	202	PIO	C3-C4	2.28	1.58	1.52
3	B	202	PIO	C3-C4	2.27	1.58	1.52
3	f	202	PIO	O4-C4	2.27	1.52	1.44
3	U	202	PIO	O4-C4	2.27	1.52	1.44
3	A	202	PIO	C3-C4	2.27	1.58	1.52
3	H	202	PIO	C3-C4	2.27	1.58	1.52
3	B	202	PIO	O4-C4	2.27	1.52	1.44
3	b	202	PIO	O4-C4	2.27	1.52	1.44
3	f	202	PIO	C3-C4	2.27	1.58	1.52
3	E	202	PIO	O4-C4	2.27	1.52	1.44
3	d	202	PIO	O4-C4	2.27	1.52	1.44
3	I	202	PIO	O4-C4	2.27	1.52	1.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	J	202	PIO	O4-C4	2.27	1.52	1.44
3	c	202	PIO	O4-C4	2.27	1.52	1.44
3	J	202	PIO	C3-C4	2.27	1.58	1.52
3	O	202	PIO	O4-C4	2.27	1.52	1.44
3	O	202	PIO	C3-C4	2.27	1.58	1.52
3	P	202	PIO	O4-C4	2.26	1.52	1.44
3	j	202	PIO	C3-C4	2.26	1.58	1.52
3	U	202	PIO	C3-C4	2.26	1.58	1.52
3	l	202	PIO	C3-C4	2.26	1.58	1.52
3	Y	202	PIO	C3-C4	2.25	1.58	1.52
3	F	202	PIO	C3-C4	2.25	1.58	1.52
3	b	202	PIO	C3-C4	2.24	1.58	1.52
3	S	202	PIO	O4-C4	2.24	1.52	1.44
3	d	202	PIO	P1-O13	-2.21	1.50	1.59
3	b	202	PIO	P1-O13	-2.20	1.50	1.59
3	B	202	PIO	P1-O13	-2.20	1.50	1.59
3	e	202	PIO	P1-O13	-2.20	1.50	1.59
3	H	202	PIO	P1-O13	-2.20	1.50	1.59
3	Q	202	PIO	P1-O13	-2.20	1.50	1.59
3	S	202	PIO	P1-O13	-2.19	1.50	1.59
3	R	202	PIO	P1-O13	-2.19	1.50	1.59
3	C	202	PIO	P1-O13	-2.19	1.50	1.59
3	D	202	PIO	P1-O13	-2.19	1.50	1.59
3	A	202	PIO	P1-O13	-2.19	1.50	1.59
3	F	202	PIO	P1-O13	-2.19	1.50	1.59
3	O	202	PIO	P1-O13	-2.19	1.50	1.59
3	W	202	PIO	P1-O13	-2.19	1.50	1.59
3	f	202	PIO	P1-O13	-2.19	1.50	1.59
3	U	202	PIO	P1-O13	-2.19	1.50	1.59
3	l	202	PIO	P1-O13	-2.19	1.50	1.59
3	j	202	PIO	P1-O13	-2.18	1.50	1.59
3	E	202	PIO	P1-O13	-2.18	1.50	1.59
3	Y	202	PIO	P1-O13	-2.18	1.50	1.59
3	I	202	PIO	P1-O13	-2.18	1.50	1.59
3	c	202	PIO	P1-O13	-2.18	1.50	1.59
3	J	202	PIO	P1-O13	-2.18	1.50	1.59
3	P	202	PIO	P1-O13	-2.17	1.50	1.59

All (120) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	202	PIO	O2C-C1A-C2A	3.85	119.79	111.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	202	PIO	O2C-C1A-C2A	3.84	119.79	111.50
3	f	202	PIO	O2C-C1A-C2A	3.84	119.79	111.50
3	S	202	PIO	O2C-C1A-C2A	3.84	119.77	111.50
3	l	202	PIO	O2C-C1A-C2A	3.84	119.77	111.50
3	b	202	PIO	O2C-C1A-C2A	3.84	119.77	111.50
3	A	202	PIO	O2C-C1A-C2A	3.83	119.76	111.50
3	O	202	PIO	O2C-C1A-C2A	3.83	119.76	111.50
3	E	202	PIO	O2C-C1A-C2A	3.83	119.76	111.50
3	R	202	PIO	O2C-C1A-C2A	3.83	119.76	111.50
3	J	202	PIO	O2C-C1A-C2A	3.83	119.75	111.50
3	d	202	PIO	O2C-C1A-C2A	3.82	119.74	111.50
3	D	202	PIO	O2C-C1A-C2A	3.82	119.74	111.50
3	Q	202	PIO	O2C-C1A-C2A	3.82	119.74	111.50
3	e	202	PIO	O2C-C1A-C2A	3.82	119.74	111.50
3	j	202	PIO	O2C-C1A-C2A	3.82	119.74	111.50
3	c	202	PIO	O2C-C1A-C2A	3.82	119.74	111.50
3	Y	202	PIO	O2C-C1A-C2A	3.82	119.74	111.50
3	H	202	PIO	O2C-C1A-C2A	3.82	119.73	111.50
3	W	202	PIO	O2C-C1A-C2A	3.82	119.72	111.50
3	B	202	PIO	O2C-C1A-C2A	3.82	119.72	111.50
3	U	202	PIO	O2C-C1A-C2A	3.81	119.72	111.50
3	C	202	PIO	O2C-C1A-C2A	3.81	119.71	111.50
3	P	202	PIO	O2C-C1A-C2A	3.81	119.71	111.50
3	O	202	PIO	P1-O1-C1	3.57	132.40	119.41
3	b	202	PIO	P1-O1-C1	3.57	132.40	119.41
3	c	202	PIO	P1-O1-C1	3.57	132.39	119.41
3	I	202	PIO	P1-O1-C1	3.57	132.39	119.41
3	B	202	PIO	P1-O1-C1	3.57	132.38	119.41
3	W	202	PIO	P1-O1-C1	3.57	132.38	119.41
3	H	202	PIO	P1-O1-C1	3.57	132.38	119.41
3	P	202	PIO	P1-O1-C1	3.57	132.38	119.41
3	f	202	PIO	P1-O1-C1	3.57	132.38	119.41
3	Q	202	PIO	P1-O1-C1	3.57	132.38	119.41
3	A	202	PIO	P1-O1-C1	3.56	132.37	119.41
3	e	202	PIO	P1-O1-C1	3.56	132.37	119.41
3	l	202	PIO	P1-O1-C1	3.56	132.37	119.41
3	Y	202	PIO	P1-O1-C1	3.56	132.36	119.41
3	F	202	PIO	P1-O1-C1	3.56	132.35	119.41
3	E	202	PIO	P1-O1-C1	3.56	132.35	119.41
3	U	202	PIO	P1-O1-C1	3.56	132.35	119.41
3	R	202	PIO	P1-O1-C1	3.56	132.35	119.41
3	S	202	PIO	P1-O1-C1	3.56	132.35	119.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	202	PIO	P1-O1-C1	3.56	132.35	119.41
3	d	202	PIO	P1-O1-C1	3.56	132.35	119.41
3	J	202	PIO	P1-O1-C1	3.55	132.34	119.41
3	j	202	PIO	P1-O1-C1	3.55	132.34	119.41
3	D	202	PIO	P1-O1-C1	3.55	132.33	119.41
3	Y	202	PIO	O1-C1-C2	2.88	115.37	108.66
3	R	202	PIO	O1-C1-C2	2.88	115.37	108.66
3	I	202	PIO	O1-C1-C2	2.88	115.37	108.66
3	j	202	PIO	O1-C1-C2	2.88	115.36	108.66
3	E	202	PIO	O1-C1-C2	2.88	115.36	108.66
3	C	202	PIO	O1-C1-C2	2.88	115.36	108.66
3	D	202	PIO	O1-C1-C2	2.88	115.36	108.66
3	A	202	PIO	O1-C1-C2	2.88	115.36	108.66
3	e	202	PIO	O1-C1-C2	2.88	115.36	108.66
3	U	202	PIO	O1-C1-C2	2.88	115.35	108.66
3	d	202	PIO	O1-C1-C2	2.88	115.35	108.66
3	Q	202	PIO	O1-C1-C2	2.87	115.35	108.66
3	H	202	PIO	O1-C1-C2	2.87	115.35	108.66
3	f	202	PIO	O1-C1-C2	2.87	115.35	108.66
3	c	202	PIO	O1-C1-C2	2.87	115.35	108.66
3	F	202	PIO	O1-C1-C2	2.87	115.34	108.66
3	S	202	PIO	O1-C1-C2	2.87	115.34	108.66
3	J	202	PIO	O1-C1-C2	2.87	115.33	108.66
3	O	202	PIO	O1-C1-C2	2.86	115.33	108.66
3	P	202	PIO	O1-C1-C2	2.86	115.33	108.66
3	W	202	PIO	O1-C1-C2	2.86	115.33	108.66
3	l	202	PIO	O1-C1-C2	2.86	115.32	108.66
3	B	202	PIO	O1-C1-C2	2.86	115.31	108.66
3	b	202	PIO	O1-C1-C2	2.86	115.31	108.66
3	B	202	PIO	O52-P5-O51	2.62	117.64	107.64
3	P	202	PIO	O52-P5-O51	2.62	117.64	107.64
3	d	202	PIO	O52-P5-O51	2.61	117.62	107.64
3	l	202	PIO	O52-P5-O51	2.61	117.61	107.64
3	I	202	PIO	O52-P5-O51	2.61	117.61	107.64
3	U	202	PIO	O52-P5-O51	2.61	117.61	107.64
3	H	202	PIO	O52-P5-O51	2.61	117.61	107.64
3	J	202	PIO	O52-P5-O51	2.61	117.61	107.64
3	D	202	PIO	O52-P5-O51	2.61	117.61	107.64
3	Y	202	PIO	O52-P5-O51	2.61	117.60	107.64
3	f	202	PIO	O52-P5-O51	2.61	117.60	107.64
3	j	202	PIO	O52-P5-O51	2.61	117.60	107.64
3	O	202	PIO	O52-P5-O51	2.61	117.59	107.64

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	202	PIO	O52-P5-O51	2.60	117.59	107.64
3	b	202	PIO	O52-P5-O51	2.60	117.59	107.64
3	C	202	PIO	O52-P5-O51	2.60	117.58	107.64
3	A	202	PIO	O52-P5-O51	2.60	117.58	107.64
3	Q	202	PIO	O52-P5-O51	2.60	117.58	107.64
3	W	202	PIO	O52-P5-O51	2.60	117.58	107.64
3	F	202	PIO	O52-P5-O51	2.60	117.56	107.64
3	e	202	PIO	O52-P5-O51	2.60	117.56	107.64
3	S	202	PIO	O52-P5-O51	2.60	117.56	107.64
3	c	202	PIO	O52-P5-O51	2.60	117.56	107.64
3	R	202	PIO	O52-P5-O51	2.59	117.55	107.64
3	W	202	PIO	O43-P4-O41	2.09	115.62	107.64
3	S	202	PIO	O43-P4-O41	2.09	115.61	107.64
3	J	202	PIO	O43-P4-O41	2.09	115.61	107.64
3	E	202	PIO	O43-P4-O41	2.08	115.60	107.64
3	d	202	PIO	O43-P4-O41	2.08	115.59	107.64
3	P	202	PIO	O43-P4-O41	2.08	115.59	107.64
3	b	202	PIO	O43-P4-O41	2.08	115.59	107.64
3	R	202	PIO	O43-P4-O41	2.08	115.59	107.64
3	e	202	PIO	O43-P4-O41	2.08	115.59	107.64
3	j	202	PIO	O43-P4-O41	2.08	115.59	107.64
3	Q	202	PIO	O43-P4-O41	2.08	115.58	107.64
3	l	202	PIO	O43-P4-O41	2.08	115.58	107.64
3	A	202	PIO	O43-P4-O41	2.08	115.58	107.64
3	B	202	PIO	O43-P4-O41	2.08	115.58	107.64
3	f	202	PIO	O43-P4-O41	2.08	115.58	107.64
3	c	202	PIO	O43-P4-O41	2.08	115.57	107.64
3	Y	202	PIO	O43-P4-O41	2.08	115.57	107.64
3	I	202	PIO	O43-P4-O41	2.08	115.57	107.64
3	D	202	PIO	O43-P4-O41	2.08	115.57	107.64
3	C	202	PIO	O43-P4-O41	2.07	115.56	107.64
3	U	202	PIO	O43-P4-O41	2.07	115.56	107.64
3	H	202	PIO	O43-P4-O41	2.07	115.55	107.64
3	O	202	PIO	O43-P4-O41	2.07	115.55	107.64
3	F	202	PIO	O43-P4-O41	2.07	115.53	107.64

There are no chirality outliers.

All (624) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	202	PIO	C2-C1-O1-P1
3	A	202	PIO	C6-C1-O1-P1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	A	202	PIO	O1A-C1A-O2C-C2C
3	B	202	PIO	C2-C1-O1-P1
3	B	202	PIO	C6-C1-O1-P1
3	B	202	PIO	O1A-C1A-O2C-C2C
3	C	202	PIO	C2-C1-O1-P1
3	C	202	PIO	C6-C1-O1-P1
3	C	202	PIO	O1A-C1A-O2C-C2C
3	D	202	PIO	C2-C1-O1-P1
3	D	202	PIO	C6-C1-O1-P1
3	D	202	PIO	O1A-C1A-O2C-C2C
3	E	202	PIO	C2-C1-O1-P1
3	E	202	PIO	C6-C1-O1-P1
3	E	202	PIO	O1A-C1A-O2C-C2C
3	F	202	PIO	C2-C1-O1-P1
3	F	202	PIO	C6-C1-O1-P1
3	F	202	PIO	O1A-C1A-O2C-C2C
3	H	202	PIO	C2-C1-O1-P1
3	H	202	PIO	C6-C1-O1-P1
3	H	202	PIO	O1A-C1A-O2C-C2C
3	I	202	PIO	C2-C1-O1-P1
3	I	202	PIO	C6-C1-O1-P1
3	I	202	PIO	O1A-C1A-O2C-C2C
3	J	202	PIO	C2-C1-O1-P1
3	J	202	PIO	C6-C1-O1-P1
3	J	202	PIO	O1A-C1A-O2C-C2C
3	O	202	PIO	C2-C1-O1-P1
3	O	202	PIO	C6-C1-O1-P1
3	O	202	PIO	O1A-C1A-O2C-C2C
3	P	202	PIO	C2-C1-O1-P1
3	P	202	PIO	C6-C1-O1-P1
3	P	202	PIO	O1A-C1A-O2C-C2C
3	Q	202	PIO	C2-C1-O1-P1
3	Q	202	PIO	C6-C1-O1-P1
3	Q	202	PIO	O1A-C1A-O2C-C2C
3	R	202	PIO	C2-C1-O1-P1
3	R	202	PIO	C6-C1-O1-P1
3	R	202	PIO	O1A-C1A-O2C-C2C
3	S	202	PIO	C2-C1-O1-P1
3	S	202	PIO	C6-C1-O1-P1
3	S	202	PIO	O1A-C1A-O2C-C2C
3	U	202	PIO	C2-C1-O1-P1
3	U	202	PIO	C6-C1-O1-P1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	U	202	PIO	O1A-C1A-O2C-C2C
3	W	202	PIO	C2-C1-O1-P1
3	W	202	PIO	C6-C1-O1-P1
3	W	202	PIO	O1A-C1A-O2C-C2C
3	Y	202	PIO	C2-C1-O1-P1
3	Y	202	PIO	C6-C1-O1-P1
3	Y	202	PIO	O1A-C1A-O2C-C2C
3	b	202	PIO	C2-C1-O1-P1
3	b	202	PIO	C6-C1-O1-P1
3	b	202	PIO	O1A-C1A-O2C-C2C
3	c	202	PIO	C2-C1-O1-P1
3	c	202	PIO	C6-C1-O1-P1
3	c	202	PIO	O1A-C1A-O2C-C2C
3	d	202	PIO	C2-C1-O1-P1
3	d	202	PIO	C6-C1-O1-P1
3	d	202	PIO	O1A-C1A-O2C-C2C
3	e	202	PIO	C2-C1-O1-P1
3	e	202	PIO	C6-C1-O1-P1
3	e	202	PIO	O1A-C1A-O2C-C2C
3	f	202	PIO	C2-C1-O1-P1
3	f	202	PIO	C6-C1-O1-P1
3	f	202	PIO	O1A-C1A-O2C-C2C
3	j	202	PIO	C2-C1-O1-P1
3	j	202	PIO	C6-C1-O1-P1
3	j	202	PIO	O1A-C1A-O2C-C2C
3	l	202	PIO	C2-C1-O1-P1
3	l	202	PIO	C6-C1-O1-P1
3	l	202	PIO	O1A-C1A-O2C-C2C
3	A	202	PIO	O1B-C1B-O3C-C3C
3	B	202	PIO	O1B-C1B-O3C-C3C
3	C	202	PIO	O1B-C1B-O3C-C3C
3	D	202	PIO	O1B-C1B-O3C-C3C
3	E	202	PIO	O1B-C1B-O3C-C3C
3	F	202	PIO	O1B-C1B-O3C-C3C
3	H	202	PIO	O1B-C1B-O3C-C3C
3	I	202	PIO	O1B-C1B-O3C-C3C
3	J	202	PIO	O1B-C1B-O3C-C3C
3	O	202	PIO	O1B-C1B-O3C-C3C
3	P	202	PIO	O1B-C1B-O3C-C3C
3	Q	202	PIO	O1B-C1B-O3C-C3C
3	R	202	PIO	O1B-C1B-O3C-C3C
3	S	202	PIO	O1B-C1B-O3C-C3C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	U	202	PIO	O1B-C1B-O3C-C3C
3	W	202	PIO	O1B-C1B-O3C-C3C
3	Y	202	PIO	O1B-C1B-O3C-C3C
3	b	202	PIO	O1B-C1B-O3C-C3C
3	c	202	PIO	O1B-C1B-O3C-C3C
3	d	202	PIO	O1B-C1B-O3C-C3C
3	e	202	PIO	O1B-C1B-O3C-C3C
3	f	202	PIO	O1B-C1B-O3C-C3C
3	j	202	PIO	O1B-C1B-O3C-C3C
3	l	202	PIO	O1B-C1B-O3C-C3C
3	A	202	PIO	C2B-C1B-O3C-C3C
3	B	202	PIO	C2B-C1B-O3C-C3C
3	C	202	PIO	C2B-C1B-O3C-C3C
3	D	202	PIO	C2B-C1B-O3C-C3C
3	E	202	PIO	C2B-C1B-O3C-C3C
3	F	202	PIO	C2B-C1B-O3C-C3C
3	H	202	PIO	C2B-C1B-O3C-C3C
3	I	202	PIO	C2B-C1B-O3C-C3C
3	J	202	PIO	C2B-C1B-O3C-C3C
3	O	202	PIO	C2B-C1B-O3C-C3C
3	P	202	PIO	C2B-C1B-O3C-C3C
3	Q	202	PIO	C2B-C1B-O3C-C3C
3	R	202	PIO	C2B-C1B-O3C-C3C
3	S	202	PIO	C2B-C1B-O3C-C3C
3	U	202	PIO	C2B-C1B-O3C-C3C
3	W	202	PIO	C2B-C1B-O3C-C3C
3	Y	202	PIO	C2B-C1B-O3C-C3C
3	b	202	PIO	C2B-C1B-O3C-C3C
3	c	202	PIO	C2B-C1B-O3C-C3C
3	d	202	PIO	C2B-C1B-O3C-C3C
3	e	202	PIO	C2B-C1B-O3C-C3C
3	f	202	PIO	C2B-C1B-O3C-C3C
3	j	202	PIO	C2B-C1B-O3C-C3C
3	l	202	PIO	C2B-C1B-O3C-C3C
3	A	202	PIO	C2A-C1A-O2C-C2C
3	B	202	PIO	C2A-C1A-O2C-C2C
3	C	202	PIO	C2A-C1A-O2C-C2C
3	D	202	PIO	C2A-C1A-O2C-C2C
3	E	202	PIO	C2A-C1A-O2C-C2C
3	F	202	PIO	C2A-C1A-O2C-C2C
3	H	202	PIO	C2A-C1A-O2C-C2C
3	I	202	PIO	C2A-C1A-O2C-C2C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	J	202	PIO	C2A-C1A-O2C-C2C
3	O	202	PIO	C2A-C1A-O2C-C2C
3	P	202	PIO	C2A-C1A-O2C-C2C
3	Q	202	PIO	C2A-C1A-O2C-C2C
3	R	202	PIO	C2A-C1A-O2C-C2C
3	S	202	PIO	C2A-C1A-O2C-C2C
3	U	202	PIO	C2A-C1A-O2C-C2C
3	W	202	PIO	C2A-C1A-O2C-C2C
3	Y	202	PIO	C2A-C1A-O2C-C2C
3	b	202	PIO	C2A-C1A-O2C-C2C
3	c	202	PIO	C2A-C1A-O2C-C2C
3	d	202	PIO	C2A-C1A-O2C-C2C
3	e	202	PIO	C2A-C1A-O2C-C2C
3	f	202	PIO	C2A-C1A-O2C-C2C
3	j	202	PIO	C2A-C1A-O2C-C2C
3	l	202	PIO	C2A-C1A-O2C-C2C
3	A	202	PIO	C2C-C1C-O13-P1
3	B	202	PIO	C2C-C1C-O13-P1
3	C	202	PIO	C2C-C1C-O13-P1
3	D	202	PIO	C2C-C1C-O13-P1
3	E	202	PIO	C2C-C1C-O13-P1
3	F	202	PIO	C2C-C1C-O13-P1
3	H	202	PIO	C2C-C1C-O13-P1
3	I	202	PIO	C2C-C1C-O13-P1
3	O	202	PIO	C2C-C1C-O13-P1
3	P	202	PIO	C2C-C1C-O13-P1
3	Q	202	PIO	C2C-C1C-O13-P1
3	R	202	PIO	C2C-C1C-O13-P1
3	S	202	PIO	C2C-C1C-O13-P1
3	U	202	PIO	C2C-C1C-O13-P1
3	W	202	PIO	C2C-C1C-O13-P1
3	Y	202	PIO	C2C-C1C-O13-P1
3	b	202	PIO	C2C-C1C-O13-P1
3	c	202	PIO	C2C-C1C-O13-P1
3	d	202	PIO	C2C-C1C-O13-P1
3	e	202	PIO	C2C-C1C-O13-P1
3	f	202	PIO	C2C-C1C-O13-P1
3	j	202	PIO	C2C-C1C-O13-P1
3	l	202	PIO	C2C-C1C-O13-P1
3	J	202	PIO	C2C-C1C-O13-P1
3	A	202	PIO	C4A-C5A-C6A-C7A
3	B	202	PIO	C4A-C5A-C6A-C7A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	C	202	PIO	C4A-C5A-C6A-C7A
3	D	202	PIO	C4A-C5A-C6A-C7A
3	E	202	PIO	C4A-C5A-C6A-C7A
3	F	202	PIO	C4A-C5A-C6A-C7A
3	H	202	PIO	C4A-C5A-C6A-C7A
3	I	202	PIO	C4A-C5A-C6A-C7A
3	J	202	PIO	C4A-C5A-C6A-C7A
3	O	202	PIO	C4A-C5A-C6A-C7A
3	P	202	PIO	C4A-C5A-C6A-C7A
3	Q	202	PIO	C4A-C5A-C6A-C7A
3	R	202	PIO	C4A-C5A-C6A-C7A
3	S	202	PIO	C4A-C5A-C6A-C7A
3	U	202	PIO	C4A-C5A-C6A-C7A
3	W	202	PIO	C4A-C5A-C6A-C7A
3	Y	202	PIO	C4A-C5A-C6A-C7A
3	b	202	PIO	C4A-C5A-C6A-C7A
3	c	202	PIO	C4A-C5A-C6A-C7A
3	d	202	PIO	C4A-C5A-C6A-C7A
3	e	202	PIO	C4A-C5A-C6A-C7A
3	f	202	PIO	C4A-C5A-C6A-C7A
3	j	202	PIO	C4A-C5A-C6A-C7A
3	l	202	PIO	C4A-C5A-C6A-C7A
2	A	201	MYR	C9-C10-C11-C12
2	B	201	MYR	C9-C10-C11-C12
2	C	201	MYR	C9-C10-C11-C12
2	D	201	MYR	C9-C10-C11-C12
2	F	201	MYR	C9-C10-C11-C12
2	I	201	MYR	C9-C10-C11-C12
2	J	201	MYR	C9-C10-C11-C12
2	O	201	MYR	C9-C10-C11-C12
2	Q	201	MYR	C9-C10-C11-C12
2	R	201	MYR	C9-C10-C11-C12
2	S	201	MYR	C9-C10-C11-C12
2	c	201	MYR	C9-C10-C11-C12
2	d	201	MYR	C9-C10-C11-C12
2	e	201	MYR	C9-C10-C11-C12
2	f	201	MYR	C9-C10-C11-C12
2	E	201	MYR	C9-C10-C11-C12
2	H	201	MYR	C9-C10-C11-C12
2	P	201	MYR	C9-C10-C11-C12
2	U	201	MYR	C9-C10-C11-C12
2	W	201	MYR	C9-C10-C11-C12

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	Y	201	MYR	C9-C10-C11-C12
2	b	201	MYR	C9-C10-C11-C12
2	j	201	MYR	C9-C10-C11-C12
2	l	201	MYR	C9-C10-C11-C12
3	A	202	PIO	C2B-C3B-C4B-C5B
3	B	202	PIO	C2B-C3B-C4B-C5B
3	C	202	PIO	C2B-C3B-C4B-C5B
3	D	202	PIO	C2B-C3B-C4B-C5B
3	E	202	PIO	C2B-C3B-C4B-C5B
3	F	202	PIO	C2B-C3B-C4B-C5B
3	H	202	PIO	C2B-C3B-C4B-C5B
3	J	202	PIO	C2B-C3B-C4B-C5B
3	P	202	PIO	C2B-C3B-C4B-C5B
3	Q	202	PIO	C2B-C3B-C4B-C5B
3	R	202	PIO	C2B-C3B-C4B-C5B
3	U	202	PIO	C2B-C3B-C4B-C5B
3	W	202	PIO	C2B-C3B-C4B-C5B
3	c	202	PIO	C2B-C3B-C4B-C5B
3	e	202	PIO	C2B-C3B-C4B-C5B
3	f	202	PIO	C2B-C3B-C4B-C5B
3	j	202	PIO	C2B-C3B-C4B-C5B
3	l	202	PIO	C2B-C3B-C4B-C5B
3	I	202	PIO	C2B-C3B-C4B-C5B
3	O	202	PIO	C2B-C3B-C4B-C5B
3	S	202	PIO	C2B-C3B-C4B-C5B
3	Y	202	PIO	C2B-C3B-C4B-C5B
3	b	202	PIO	C2B-C3B-C4B-C5B
3	d	202	PIO	C2B-C3B-C4B-C5B
2	A	201	MYR	C7-C8-C9-C10
2	B	201	MYR	C7-C8-C9-C10
2	C	201	MYR	C7-C8-C9-C10
2	D	201	MYR	C7-C8-C9-C10
2	E	201	MYR	C7-C8-C9-C10
2	F	201	MYR	C7-C8-C9-C10
2	H	201	MYR	C7-C8-C9-C10
2	I	201	MYR	C7-C8-C9-C10
2	J	201	MYR	C7-C8-C9-C10
2	O	201	MYR	C7-C8-C9-C10
2	P	201	MYR	C7-C8-C9-C10
2	Q	201	MYR	C7-C8-C9-C10
2	R	201	MYR	C7-C8-C9-C10
2	S	201	MYR	C7-C8-C9-C10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	U	201	MYR	C7-C8-C9-C10
2	W	201	MYR	C7-C8-C9-C10
2	Y	201	MYR	C7-C8-C9-C10
2	b	201	MYR	C7-C8-C9-C10
2	c	201	MYR	C7-C8-C9-C10
2	d	201	MYR	C7-C8-C9-C10
2	e	201	MYR	C7-C8-C9-C10
2	j	201	MYR	C7-C8-C9-C10
2	l	201	MYR	C7-C8-C9-C10
2	f	201	MYR	C7-C8-C9-C10
2	A	201	MYR	C10-C11-C12-C13
2	B	201	MYR	C10-C11-C12-C13
2	C	201	MYR	C10-C11-C12-C13
2	E	201	MYR	C10-C11-C12-C13
2	H	201	MYR	C10-C11-C12-C13
2	O	201	MYR	C10-C11-C12-C13
2	P	201	MYR	C10-C11-C12-C13
2	S	201	MYR	C10-C11-C12-C13
2	U	201	MYR	C10-C11-C12-C13
2	b	201	MYR	C10-C11-C12-C13
2	D	201	MYR	C10-C11-C12-C13
2	F	201	MYR	C10-C11-C12-C13
2	I	201	MYR	C10-C11-C12-C13
2	J	201	MYR	C10-C11-C12-C13
2	Q	201	MYR	C10-C11-C12-C13
2	R	201	MYR	C10-C11-C12-C13
2	W	201	MYR	C10-C11-C12-C13
2	Y	201	MYR	C10-C11-C12-C13
2	c	201	MYR	C10-C11-C12-C13
2	d	201	MYR	C10-C11-C12-C13
2	e	201	MYR	C10-C11-C12-C13
2	f	201	MYR	C10-C11-C12-C13
2	j	201	MYR	C10-C11-C12-C13
2	l	201	MYR	C10-C11-C12-C13
2	A	201	MYR	C2-C3-C4-C5
2	B	201	MYR	C2-C3-C4-C5
2	C	201	MYR	C2-C3-C4-C5
2	D	201	MYR	C2-C3-C4-C5
2	F	201	MYR	C2-C3-C4-C5
2	H	201	MYR	C2-C3-C4-C5
2	J	201	MYR	C2-C3-C4-C5
2	P	201	MYR	C2-C3-C4-C5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	R	201	MYR	C2-C3-C4-C5
2	U	201	MYR	C2-C3-C4-C5
2	W	201	MYR	C2-C3-C4-C5
2	Y	201	MYR	C2-C3-C4-C5
2	b	201	MYR	C2-C3-C4-C5
2	c	201	MYR	C2-C3-C4-C5
2	d	201	MYR	C2-C3-C4-C5
2	e	201	MYR	C2-C3-C4-C5
2	f	201	MYR	C2-C3-C4-C5
2	j	201	MYR	C2-C3-C4-C5
2	l	201	MYR	C2-C3-C4-C5
2	E	201	MYR	C2-C3-C4-C5
2	I	201	MYR	C2-C3-C4-C5
2	O	201	MYR	C2-C3-C4-C5
2	Q	201	MYR	C2-C3-C4-C5
2	S	201	MYR	C2-C3-C4-C5
3	Q	202	PIO	C5A-C6A-C7A-C8A
3	U	202	PIO	C5A-C6A-C7A-C8A
3	W	202	PIO	C5A-C6A-C7A-C8A
3	Y	202	PIO	C5A-C6A-C7A-C8A
3	e	202	PIO	C5A-C6A-C7A-C8A
3	j	202	PIO	C5A-C6A-C7A-C8A
3	l	202	PIO	C5A-C6A-C7A-C8A
3	A	202	PIO	C5A-C6A-C7A-C8A
3	B	202	PIO	C5A-C6A-C7A-C8A
3	C	202	PIO	C5A-C6A-C7A-C8A
3	D	202	PIO	C5A-C6A-C7A-C8A
3	E	202	PIO	C5A-C6A-C7A-C8A
3	F	202	PIO	C5A-C6A-C7A-C8A
3	H	202	PIO	C5A-C6A-C7A-C8A
3	I	202	PIO	C5A-C6A-C7A-C8A
3	J	202	PIO	C5A-C6A-C7A-C8A
3	O	202	PIO	C5A-C6A-C7A-C8A
3	P	202	PIO	C5A-C6A-C7A-C8A
3	R	202	PIO	C5A-C6A-C7A-C8A
3	S	202	PIO	C5A-C6A-C7A-C8A
3	b	202	PIO	C5A-C6A-C7A-C8A
3	c	202	PIO	C5A-C6A-C7A-C8A
3	d	202	PIO	C5A-C6A-C7A-C8A
3	f	202	PIO	C5A-C6A-C7A-C8A
3	A	202	PIO	C1A-C2A-C3A-C4A
3	B	202	PIO	C1A-C2A-C3A-C4A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	C	202	PIO	C1A-C2A-C3A-C4A
3	D	202	PIO	C1A-C2A-C3A-C4A
3	F	202	PIO	C1A-C2A-C3A-C4A
3	H	202	PIO	C1A-C2A-C3A-C4A
3	I	202	PIO	C1A-C2A-C3A-C4A
3	J	202	PIO	C1A-C2A-C3A-C4A
3	O	202	PIO	C1A-C2A-C3A-C4A
3	P	202	PIO	C1A-C2A-C3A-C4A
3	Q	202	PIO	C1A-C2A-C3A-C4A
3	R	202	PIO	C1A-C2A-C3A-C4A
3	U	202	PIO	C1A-C2A-C3A-C4A
3	W	202	PIO	C1A-C2A-C3A-C4A
3	b	202	PIO	C1A-C2A-C3A-C4A
3	c	202	PIO	C1A-C2A-C3A-C4A
3	d	202	PIO	C1A-C2A-C3A-C4A
3	e	202	PIO	C1A-C2A-C3A-C4A
3	f	202	PIO	C1A-C2A-C3A-C4A
3	j	202	PIO	C1A-C2A-C3A-C4A
3	B	202	PIO	C3A-C4A-C5A-C6A
3	D	202	PIO	C3A-C4A-C5A-C6A
3	E	202	PIO	C3A-C4A-C5A-C6A
3	S	202	PIO	C3A-C4A-C5A-C6A
3	E	202	PIO	C1A-C2A-C3A-C4A
3	Y	202	PIO	C1A-C2A-C3A-C4A
3	A	202	PIO	C3A-C4A-C5A-C6A
3	F	202	PIO	C3A-C4A-C5A-C6A
3	H	202	PIO	C3A-C4A-C5A-C6A
3	J	202	PIO	C3A-C4A-C5A-C6A
3	O	202	PIO	C3A-C4A-C5A-C6A
3	P	202	PIO	C3A-C4A-C5A-C6A
3	Q	202	PIO	C3A-C4A-C5A-C6A
3	R	202	PIO	C3A-C4A-C5A-C6A
3	U	202	PIO	C3A-C4A-C5A-C6A
3	W	202	PIO	C3A-C4A-C5A-C6A
3	b	202	PIO	C3A-C4A-C5A-C6A
3	c	202	PIO	C3A-C4A-C5A-C6A
3	d	202	PIO	C3A-C4A-C5A-C6A
3	e	202	PIO	C3A-C4A-C5A-C6A
3	f	202	PIO	C3A-C4A-C5A-C6A
3	j	202	PIO	C3A-C4A-C5A-C6A
3	C	202	PIO	C3A-C4A-C5A-C6A
3	I	202	PIO	C3A-C4A-C5A-C6A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	Y	202	PIO	C3A-C4A-C5A-C6A
3	l	202	PIO	C3A-C4A-C5A-C6A
3	S	202	PIO	C1A-C2A-C3A-C4A
3	l	202	PIO	C1A-C2A-C3A-C4A
3	A	202	PIO	C4B-C5B-C6B-C7B
3	B	202	PIO	C4B-C5B-C6B-C7B
3	D	202	PIO	C4B-C5B-C6B-C7B
3	H	202	PIO	C4B-C5B-C6B-C7B
3	I	202	PIO	C4B-C5B-C6B-C7B
3	P	202	PIO	C4B-C5B-C6B-C7B
3	Y	202	PIO	C4B-C5B-C6B-C7B
3	e	202	PIO	C4B-C5B-C6B-C7B
3	j	202	PIO	C4B-C5B-C6B-C7B
3	l	202	PIO	C4B-C5B-C6B-C7B
3	C	202	PIO	C4B-C5B-C6B-C7B
3	E	202	PIO	C4B-C5B-C6B-C7B
3	F	202	PIO	C4B-C5B-C6B-C7B
3	O	202	PIO	C4B-C5B-C6B-C7B
3	Q	202	PIO	C4B-C5B-C6B-C7B
3	R	202	PIO	C4B-C5B-C6B-C7B
3	S	202	PIO	C4B-C5B-C6B-C7B
3	U	202	PIO	C4B-C5B-C6B-C7B
3	W	202	PIO	C4B-C5B-C6B-C7B
3	b	202	PIO	C4B-C5B-C6B-C7B
3	c	202	PIO	C4B-C5B-C6B-C7B
3	d	202	PIO	C4B-C5B-C6B-C7B
3	J	202	PIO	C4B-C5B-C6B-C7B
3	f	202	PIO	C4B-C5B-C6B-C7B
2	J	201	MYR	C11-C12-C13-C14
2	W	201	MYR	C11-C12-C13-C14
2	f	201	MYR	C11-C12-C13-C14
2	A	201	MYR	C11-C12-C13-C14
2	B	201	MYR	C11-C12-C13-C14
2	C	201	MYR	C11-C12-C13-C14
2	D	201	MYR	C11-C12-C13-C14
2	F	201	MYR	C11-C12-C13-C14
2	H	201	MYR	C11-C12-C13-C14
2	I	201	MYR	C11-C12-C13-C14
2	O	201	MYR	C11-C12-C13-C14
2	P	201	MYR	C11-C12-C13-C14
2	Q	201	MYR	C11-C12-C13-C14
2	R	201	MYR	C11-C12-C13-C14

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	U	201	MYR	C11-C12-C13-C14
2	Y	201	MYR	C11-C12-C13-C14
2	b	201	MYR	C11-C12-C13-C14
2	c	201	MYR	C11-C12-C13-C14
2	d	201	MYR	C11-C12-C13-C14
2	j	201	MYR	C11-C12-C13-C14
2	l	201	MYR	C11-C12-C13-C14
2	E	201	MYR	C11-C12-C13-C14
2	S	201	MYR	C11-C12-C13-C14
2	e	201	MYR	C11-C12-C13-C14
3	d	202	PIO	C2A-C3A-C4A-C5A
3	j	202	PIO	C2A-C3A-C4A-C5A
3	I	202	PIO	C2A-C3A-C4A-C5A
3	J	202	PIO	C2A-C3A-C4A-C5A
3	P	202	PIO	C2A-C3A-C4A-C5A
3	W	202	PIO	C2A-C3A-C4A-C5A
3	Y	202	PIO	C2A-C3A-C4A-C5A
3	b	202	PIO	C2A-C3A-C4A-C5A
3	f	202	PIO	C2A-C3A-C4A-C5A
3	l	202	PIO	C2A-C3A-C4A-C5A
3	A	202	PIO	C2A-C3A-C4A-C5A
3	C	202	PIO	C2A-C3A-C4A-C5A
3	D	202	PIO	C2A-C3A-C4A-C5A
3	E	202	PIO	C2A-C3A-C4A-C5A
3	F	202	PIO	C2A-C3A-C4A-C5A
3	H	202	PIO	C2A-C3A-C4A-C5A
3	O	202	PIO	C2A-C3A-C4A-C5A
3	Q	202	PIO	C2A-C3A-C4A-C5A
3	S	202	PIO	C2A-C3A-C4A-C5A
3	U	202	PIO	C2A-C3A-C4A-C5A
3	B	202	PIO	C2A-C3A-C4A-C5A
3	c	202	PIO	C2A-C3A-C4A-C5A
3	e	202	PIO	C2A-C3A-C4A-C5A
3	R	202	PIO	C2A-C3A-C4A-C5A
2	A	201	MYR	C1-C2-C3-C4
2	B	201	MYR	C1-C2-C3-C4
2	C	201	MYR	C1-C2-C3-C4
2	D	201	MYR	C1-C2-C3-C4
2	E	201	MYR	C1-C2-C3-C4
2	F	201	MYR	C1-C2-C3-C4
2	H	201	MYR	C1-C2-C3-C4
2	I	201	MYR	C1-C2-C3-C4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	J	201	MYR	C1-C2-C3-C4
2	O	201	MYR	C1-C2-C3-C4
2	P	201	MYR	C1-C2-C3-C4
2	Q	201	MYR	C1-C2-C3-C4
2	R	201	MYR	C1-C2-C3-C4
2	S	201	MYR	C1-C2-C3-C4
2	U	201	MYR	C1-C2-C3-C4
2	W	201	MYR	C1-C2-C3-C4
2	Y	201	MYR	C1-C2-C3-C4
2	b	201	MYR	C1-C2-C3-C4
2	c	201	MYR	C1-C2-C3-C4
2	d	201	MYR	C1-C2-C3-C4
2	e	201	MYR	C1-C2-C3-C4
2	f	201	MYR	C1-C2-C3-C4
2	j	201	MYR	C1-C2-C3-C4
2	l	201	MYR	C1-C2-C3-C4
3	J	202	PIO	C3B-C4B-C5B-C6B
3	A	202	PIO	C3B-C4B-C5B-C6B
3	C	202	PIO	C3B-C4B-C5B-C6B
3	E	202	PIO	C3B-C4B-C5B-C6B
3	F	202	PIO	C3B-C4B-C5B-C6B
3	H	202	PIO	C3B-C4B-C5B-C6B
3	I	202	PIO	C3B-C4B-C5B-C6B
3	P	202	PIO	C3B-C4B-C5B-C6B
3	Q	202	PIO	C3B-C4B-C5B-C6B
3	R	202	PIO	C3B-C4B-C5B-C6B
3	S	202	PIO	C3B-C4B-C5B-C6B
3	U	202	PIO	C3B-C4B-C5B-C6B
3	W	202	PIO	C3B-C4B-C5B-C6B
3	Y	202	PIO	C3B-C4B-C5B-C6B
3	c	202	PIO	C3B-C4B-C5B-C6B
3	d	202	PIO	C3B-C4B-C5B-C6B
3	f	202	PIO	C3B-C4B-C5B-C6B
3	l	202	PIO	C3B-C4B-C5B-C6B
3	B	202	PIO	C3B-C4B-C5B-C6B
3	O	202	PIO	C3B-C4B-C5B-C6B
3	b	202	PIO	C3B-C4B-C5B-C6B
3	e	202	PIO	C3B-C4B-C5B-C6B
3	D	202	PIO	C3B-C4B-C5B-C6B
3	j	202	PIO	C3B-C4B-C5B-C6B
2	U	201	MYR	C5-C6-C7-C8
2	J	201	MYR	C5-C6-C7-C8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	P	201	MYR	C5-C6-C7-C8
2	b	201	MYR	C5-C6-C7-C8
2	c	201	MYR	C5-C6-C7-C8
2	E	201	MYR	C5-C6-C7-C8
2	H	201	MYR	C5-C6-C7-C8
2	I	201	MYR	C5-C6-C7-C8
2	Q	201	MYR	C5-C6-C7-C8
2	R	201	MYR	C5-C6-C7-C8
2	W	201	MYR	C5-C6-C7-C8
2	Y	201	MYR	C5-C6-C7-C8
2	A	201	MYR	C5-C6-C7-C8
2	B	201	MYR	C5-C6-C7-C8
2	C	201	MYR	C5-C6-C7-C8
2	D	201	MYR	C5-C6-C7-C8
2	F	201	MYR	C5-C6-C7-C8
2	O	201	MYR	C5-C6-C7-C8
2	S	201	MYR	C5-C6-C7-C8
2	d	201	MYR	C5-C6-C7-C8
2	e	201	MYR	C5-C6-C7-C8
2	f	201	MYR	C5-C6-C7-C8
2	j	201	MYR	C5-C6-C7-C8
2	l	201	MYR	C5-C6-C7-C8
3	A	202	PIO	C1-O1-P1-O13
3	B	202	PIO	C1-O1-P1-O13
3	C	202	PIO	C1-O1-P1-O13
3	D	202	PIO	C1-O1-P1-O13
3	E	202	PIO	C1-O1-P1-O13
3	F	202	PIO	C1-O1-P1-O13
3	H	202	PIO	C1-O1-P1-O13
3	I	202	PIO	C1-O1-P1-O13
3	J	202	PIO	C1-O1-P1-O13
3	O	202	PIO	C1-O1-P1-O13
3	P	202	PIO	C1-O1-P1-O13
3	Q	202	PIO	C1-O1-P1-O13
3	R	202	PIO	C1-O1-P1-O13
3	S	202	PIO	C1-O1-P1-O13
3	U	202	PIO	C1-O1-P1-O13
3	W	202	PIO	C1-O1-P1-O13
3	Y	202	PIO	C1-O1-P1-O13
3	b	202	PIO	C1-O1-P1-O13
3	c	202	PIO	C1-O1-P1-O13
3	d	202	PIO	C1-O1-P1-O13

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	e	202	PIO	C1-O1-P1-O13
3	f	202	PIO	C1-O1-P1-O13
3	j	202	PIO	C1-O1-P1-O13
3	l	202	PIO	C1-O1-P1-O13
3	A	202	PIO	O2C-C2C-C3C-O3C
3	B	202	PIO	O2C-C2C-C3C-O3C
3	C	202	PIO	O2C-C2C-C3C-O3C
3	D	202	PIO	O2C-C2C-C3C-O3C
3	E	202	PIO	O2C-C2C-C3C-O3C
3	F	202	PIO	O2C-C2C-C3C-O3C
3	H	202	PIO	O2C-C2C-C3C-O3C
3	I	202	PIO	O2C-C2C-C3C-O3C
3	J	202	PIO	O2C-C2C-C3C-O3C
3	O	202	PIO	O2C-C2C-C3C-O3C
3	P	202	PIO	O2C-C2C-C3C-O3C
3	Q	202	PIO	O2C-C2C-C3C-O3C
3	R	202	PIO	O2C-C2C-C3C-O3C
3	S	202	PIO	O2C-C2C-C3C-O3C
3	U	202	PIO	O2C-C2C-C3C-O3C
3	W	202	PIO	O2C-C2C-C3C-O3C
3	Y	202	PIO	O2C-C2C-C3C-O3C
3	b	202	PIO	O2C-C2C-C3C-O3C
3	c	202	PIO	O2C-C2C-C3C-O3C
3	d	202	PIO	O2C-C2C-C3C-O3C
3	e	202	PIO	O2C-C2C-C3C-O3C
3	f	202	PIO	O2C-C2C-C3C-O3C
3	j	202	PIO	O2C-C2C-C3C-O3C
3	l	202	PIO	O2C-C2C-C3C-O3C
3	l	202	PIO	C1B-C2B-C3B-C4B
3	D	202	PIO	C1B-C2B-C3B-C4B
3	J	202	PIO	C1B-C2B-C3B-C4B
3	e	202	PIO	C1B-C2B-C3B-C4B
3	E	202	PIO	C1B-C2B-C3B-C4B
3	I	202	PIO	C1B-C2B-C3B-C4B
3	O	202	PIO	C1B-C2B-C3B-C4B
3	R	202	PIO	C1B-C2B-C3B-C4B
3	c	202	PIO	C1B-C2B-C3B-C4B
3	j	202	PIO	C1B-C2B-C3B-C4B
3	A	202	PIO	C1B-C2B-C3B-C4B
3	B	202	PIO	C1B-C2B-C3B-C4B
3	F	202	PIO	C1B-C2B-C3B-C4B
3	Q	202	PIO	C1B-C2B-C3B-C4B

Continued on next page...

Continued from previous page...

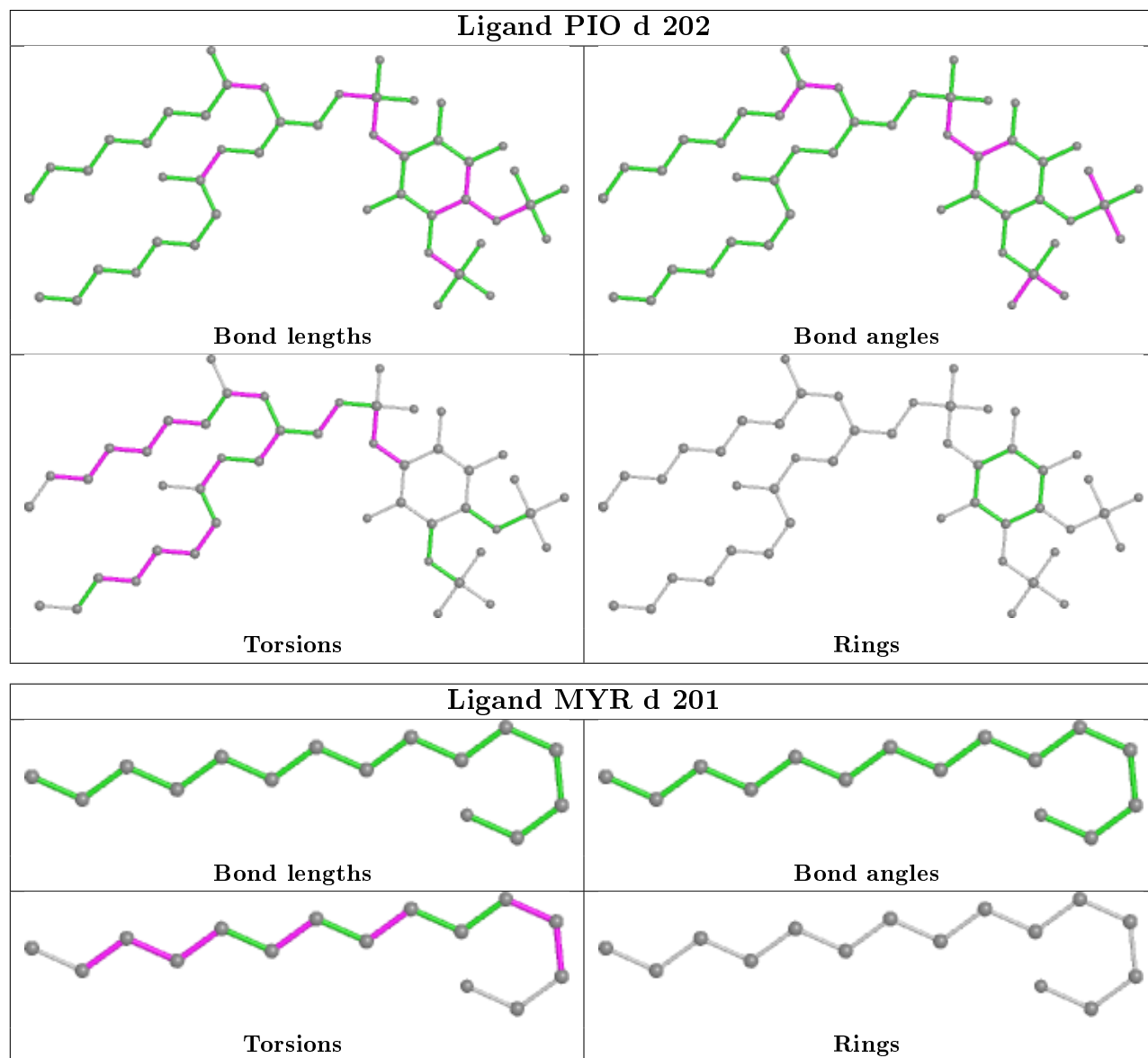
Mol	Chain	Res	Type	Atoms
3	U	202	PIO	C1B-C2B-C3B-C4B
3	C	202	PIO	C1B-C2B-C3B-C4B
3	H	202	PIO	C1B-C2B-C3B-C4B
3	P	202	PIO	C1B-C2B-C3B-C4B
3	S	202	PIO	C1B-C2B-C3B-C4B
3	W	202	PIO	C1B-C2B-C3B-C4B
3	Y	202	PIO	C1B-C2B-C3B-C4B
3	b	202	PIO	C1B-C2B-C3B-C4B
3	d	202	PIO	C1B-C2B-C3B-C4B
3	f	202	PIO	C1B-C2B-C3B-C4B
3	A	202	PIO	C1C-C2C-C3C-O3C
3	B	202	PIO	C1C-C2C-C3C-O3C
3	C	202	PIO	C1C-C2C-C3C-O3C
3	D	202	PIO	C1C-C2C-C3C-O3C
3	E	202	PIO	C1C-C2C-C3C-O3C
3	F	202	PIO	C1C-C2C-C3C-O3C
3	H	202	PIO	C1C-C2C-C3C-O3C
3	I	202	PIO	C1C-C2C-C3C-O3C
3	J	202	PIO	C1C-C2C-C3C-O3C
3	O	202	PIO	C1C-C2C-C3C-O3C
3	P	202	PIO	C1C-C2C-C3C-O3C
3	Q	202	PIO	C1C-C2C-C3C-O3C
3	R	202	PIO	C1C-C2C-C3C-O3C
3	S	202	PIO	C1C-C2C-C3C-O3C
3	U	202	PIO	C1C-C2C-C3C-O3C
3	W	202	PIO	C1C-C2C-C3C-O3C
3	Y	202	PIO	C1C-C2C-C3C-O3C
3	b	202	PIO	C1C-C2C-C3C-O3C
3	c	202	PIO	C1C-C2C-C3C-O3C
3	d	202	PIO	C1C-C2C-C3C-O3C
3	e	202	PIO	C1C-C2C-C3C-O3C
3	f	202	PIO	C1C-C2C-C3C-O3C
3	j	202	PIO	C1C-C2C-C3C-O3C
3	l	202	PIO	C1C-C2C-C3C-O3C

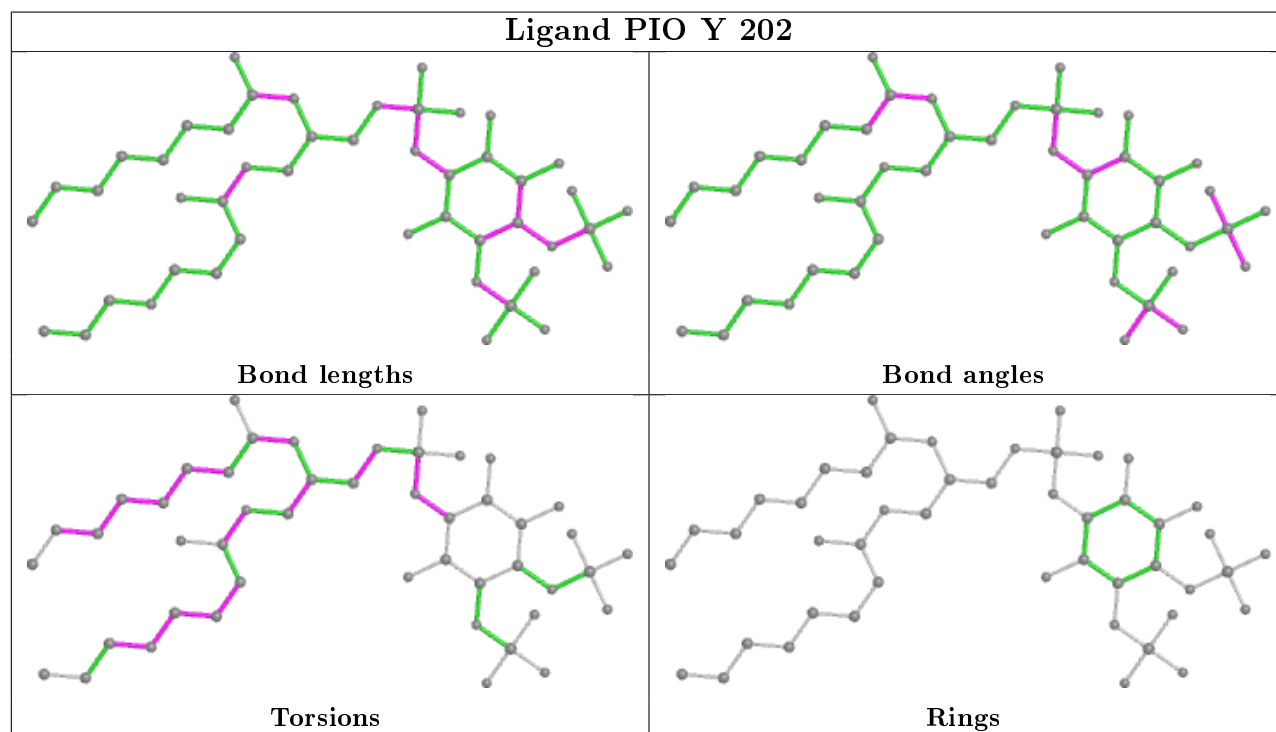
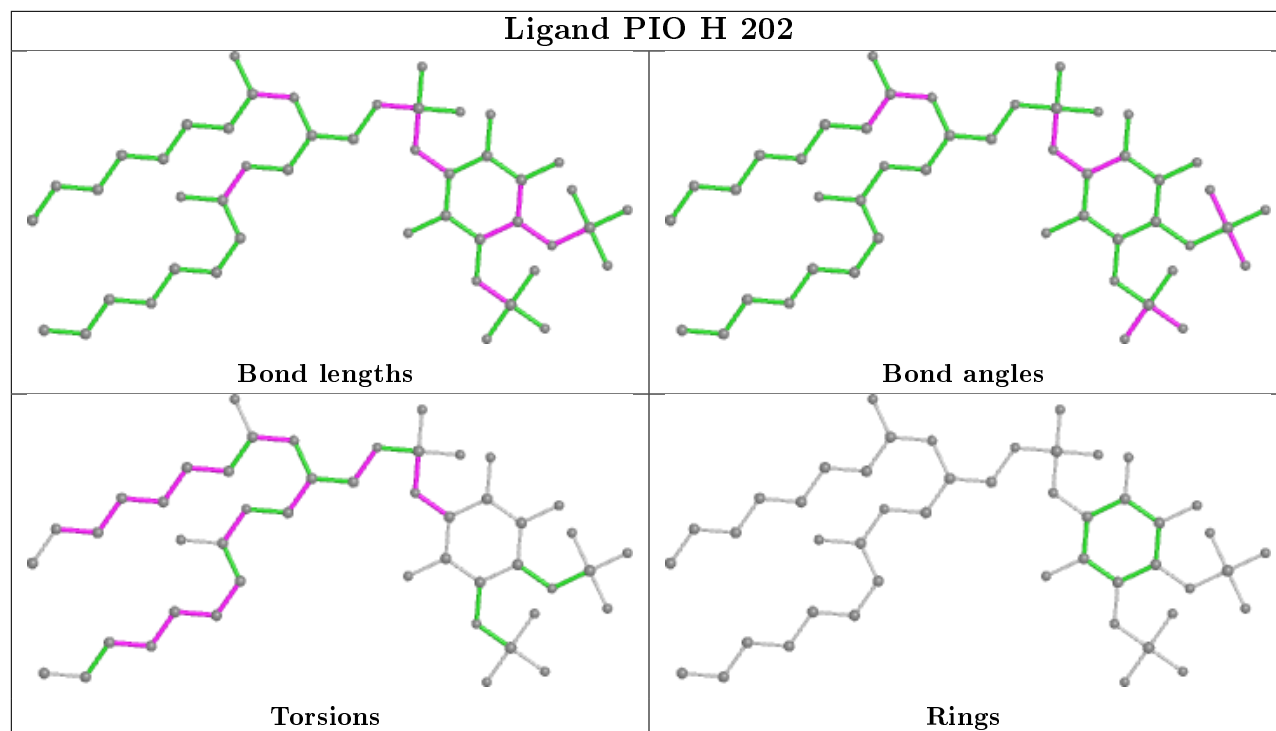
There are no ring outliers.

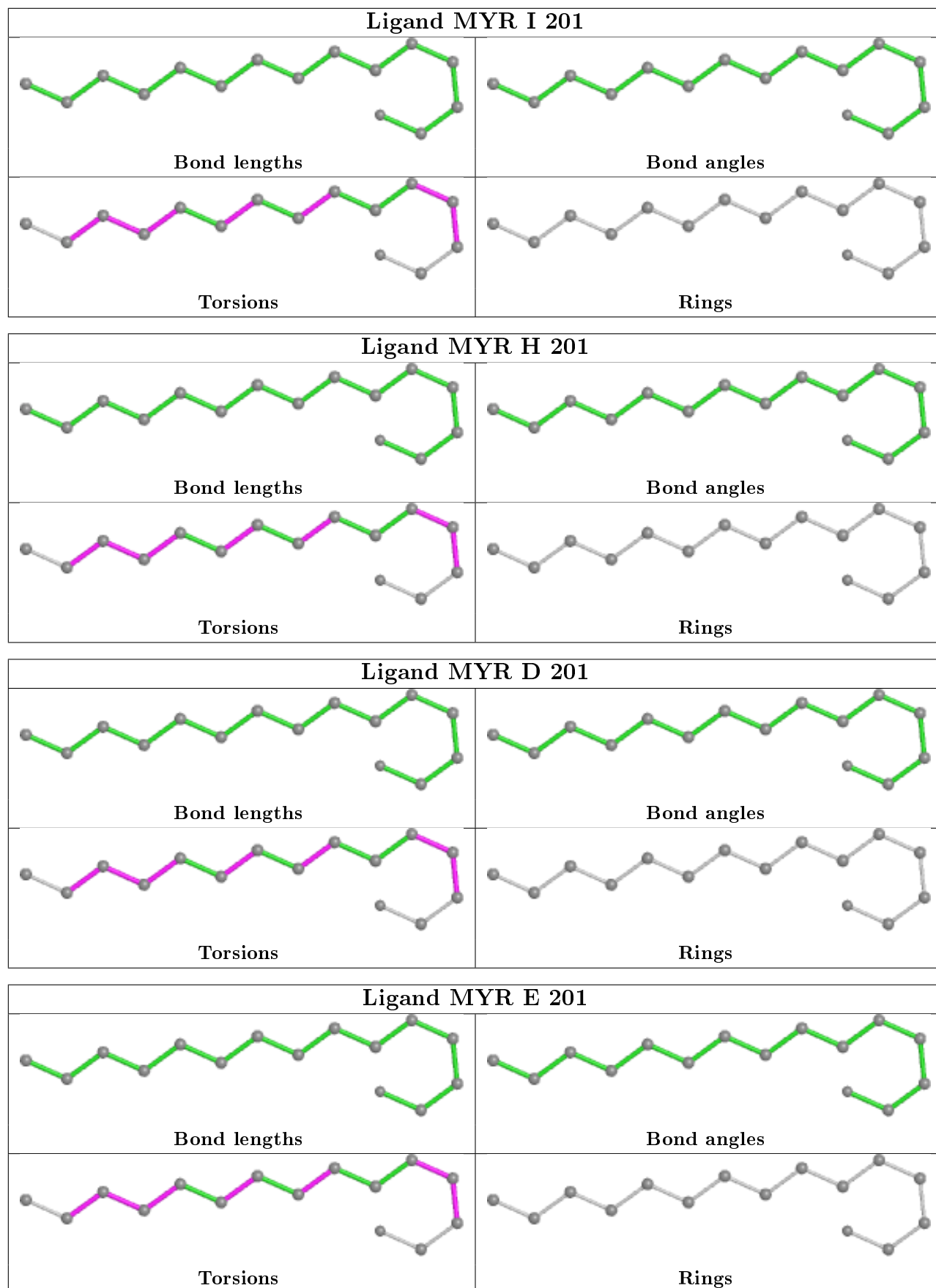
No monomer is involved in short contacts.

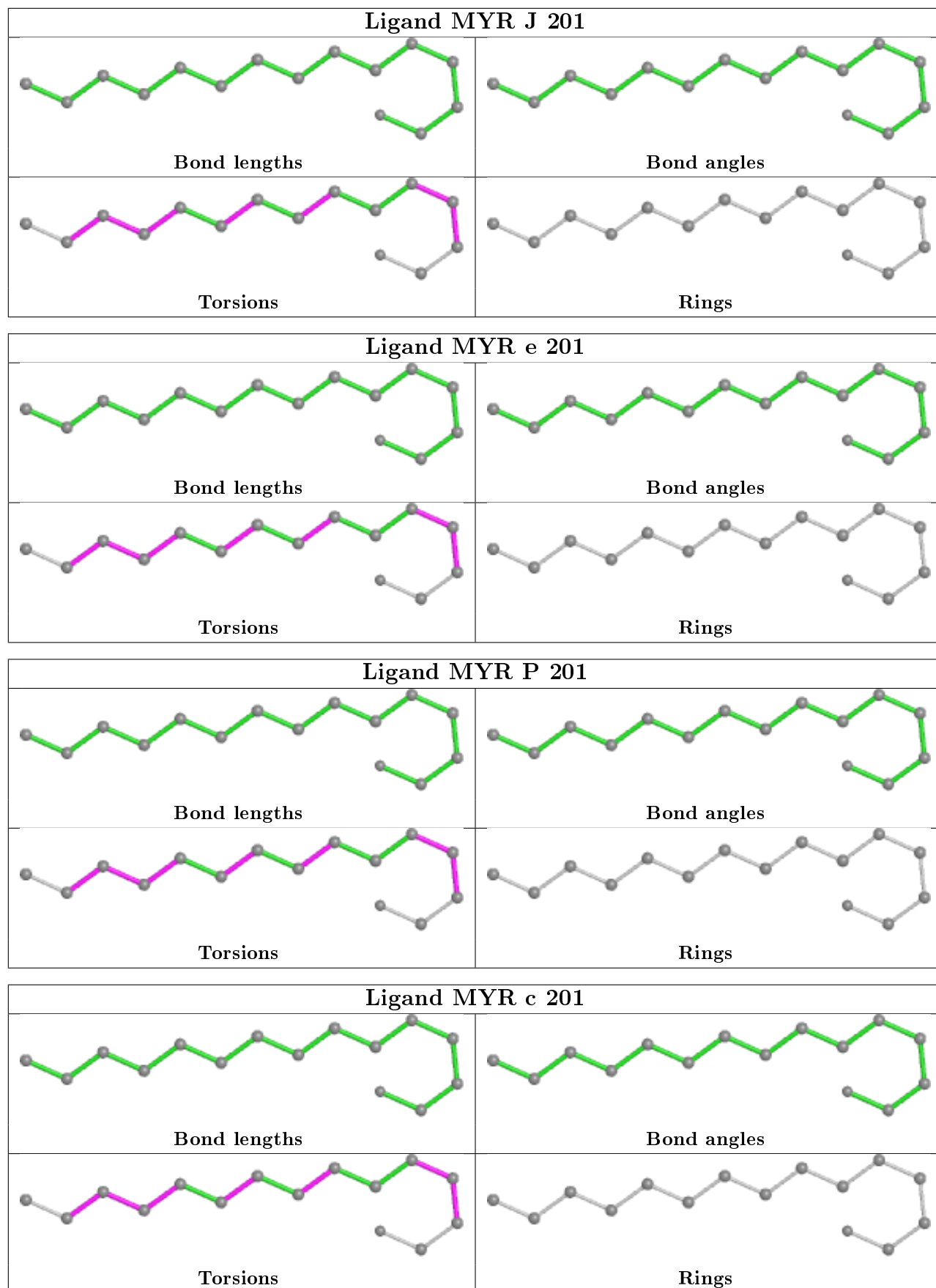
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier.

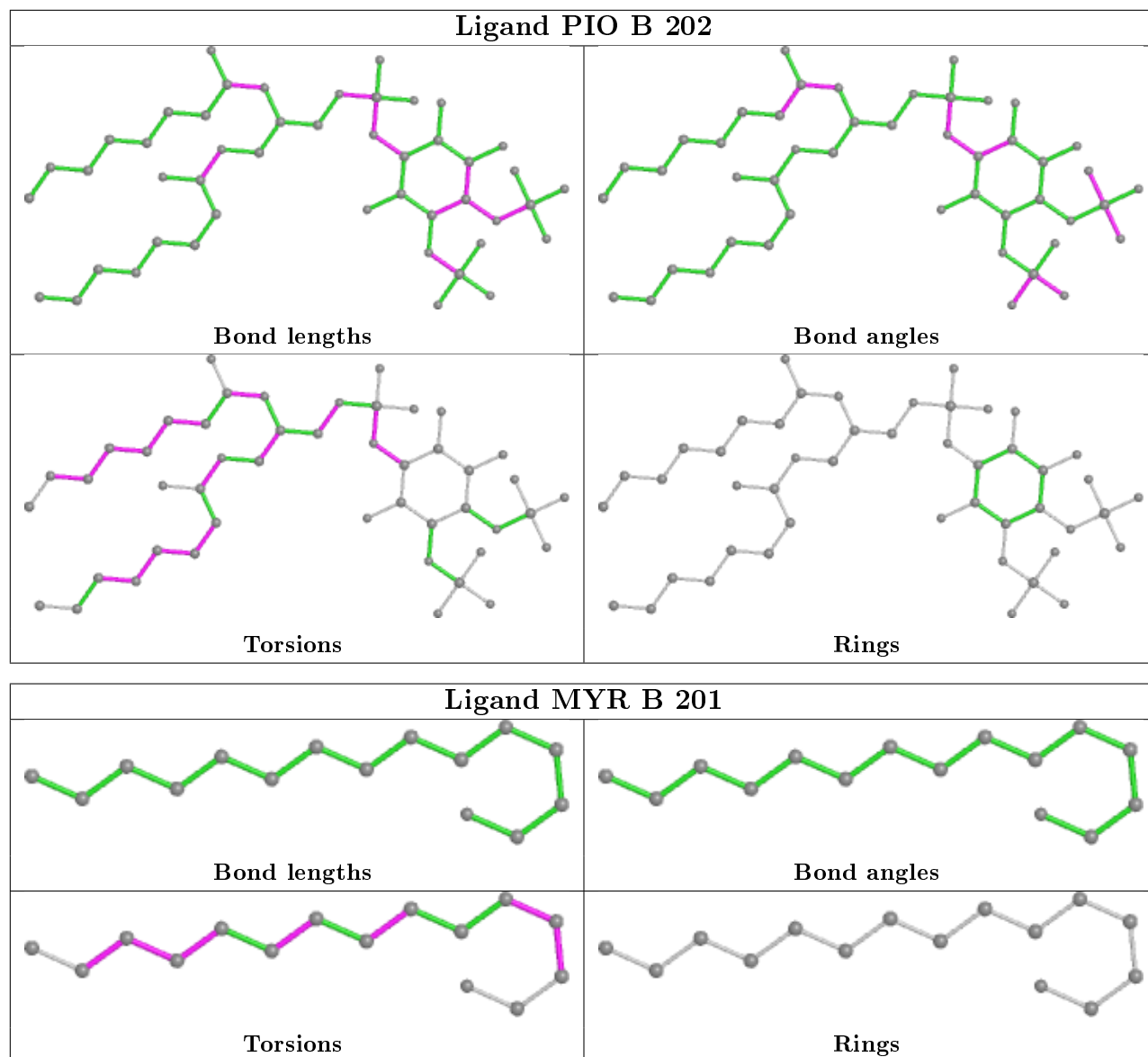
Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

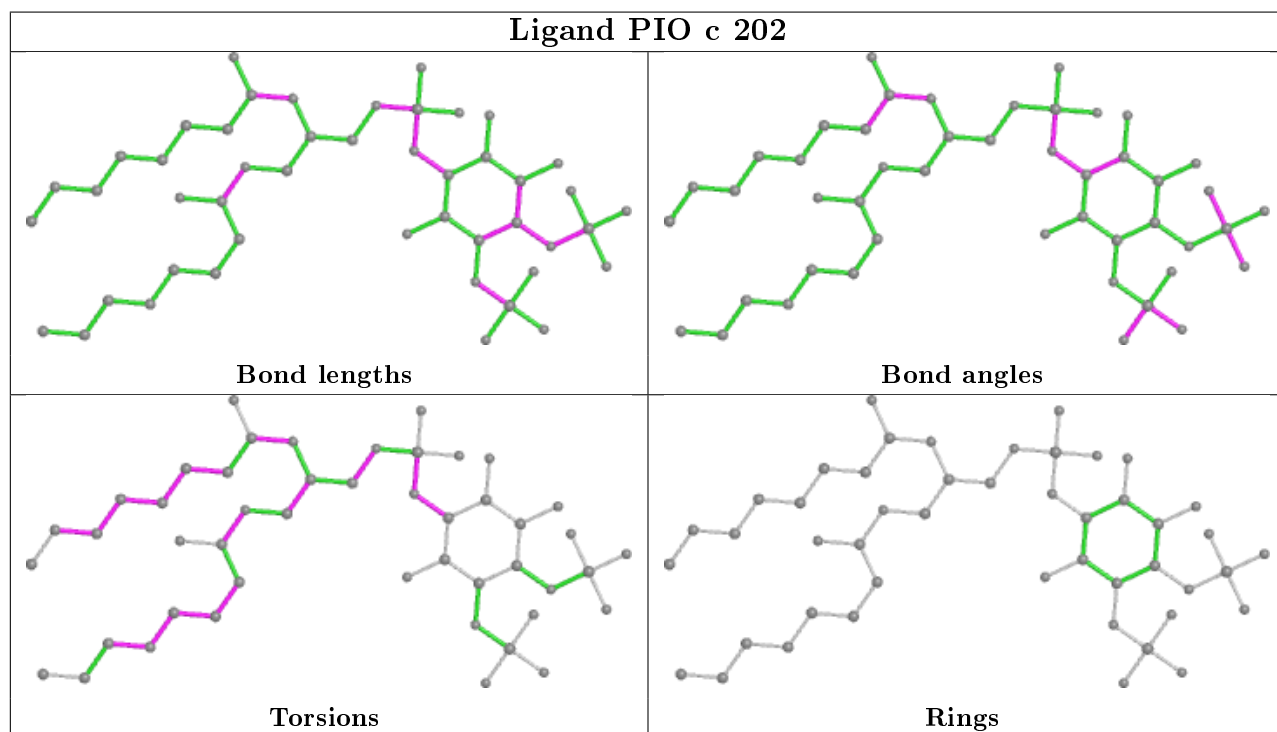
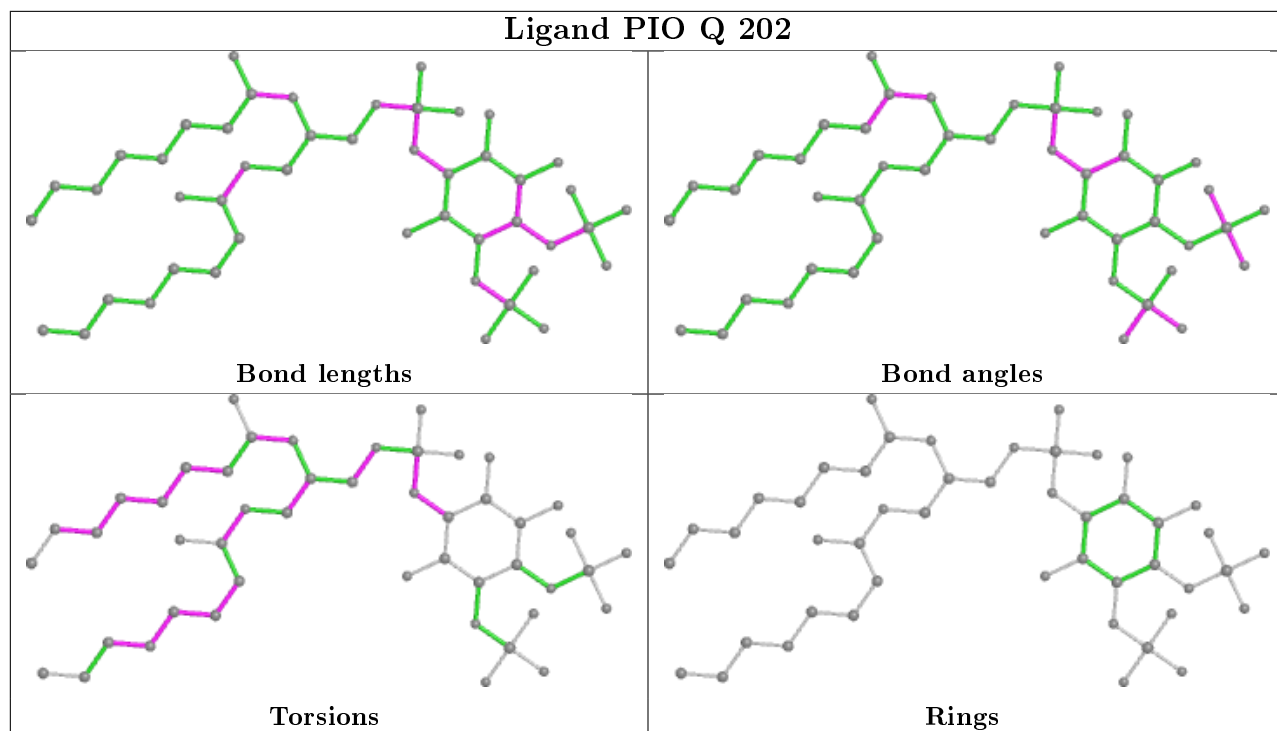


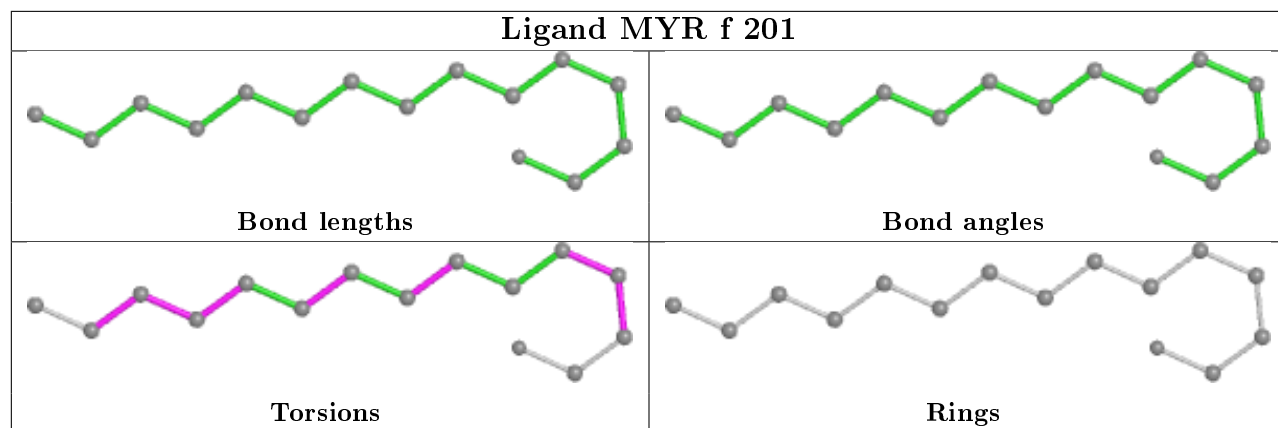
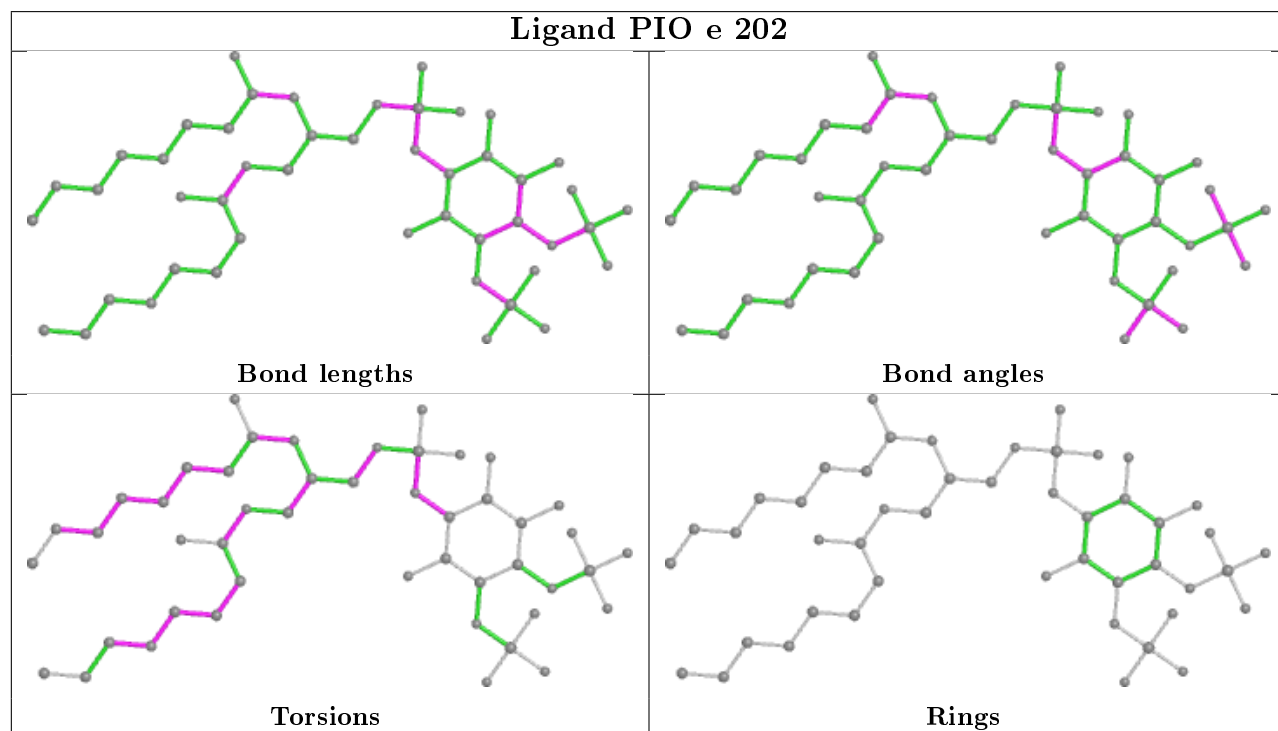
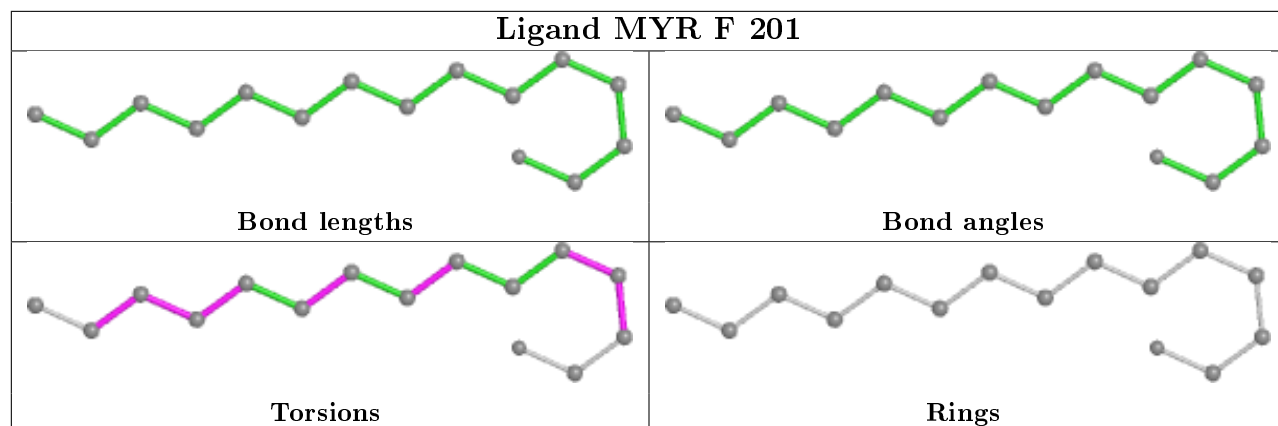


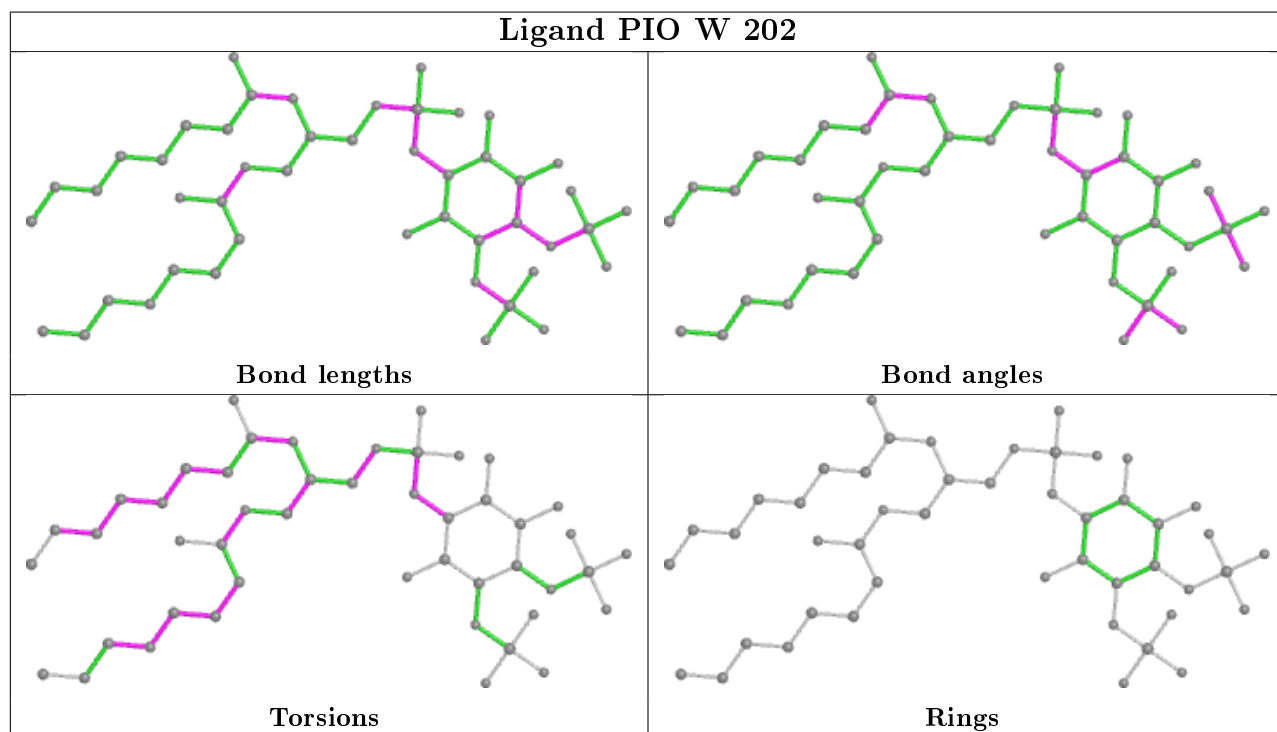
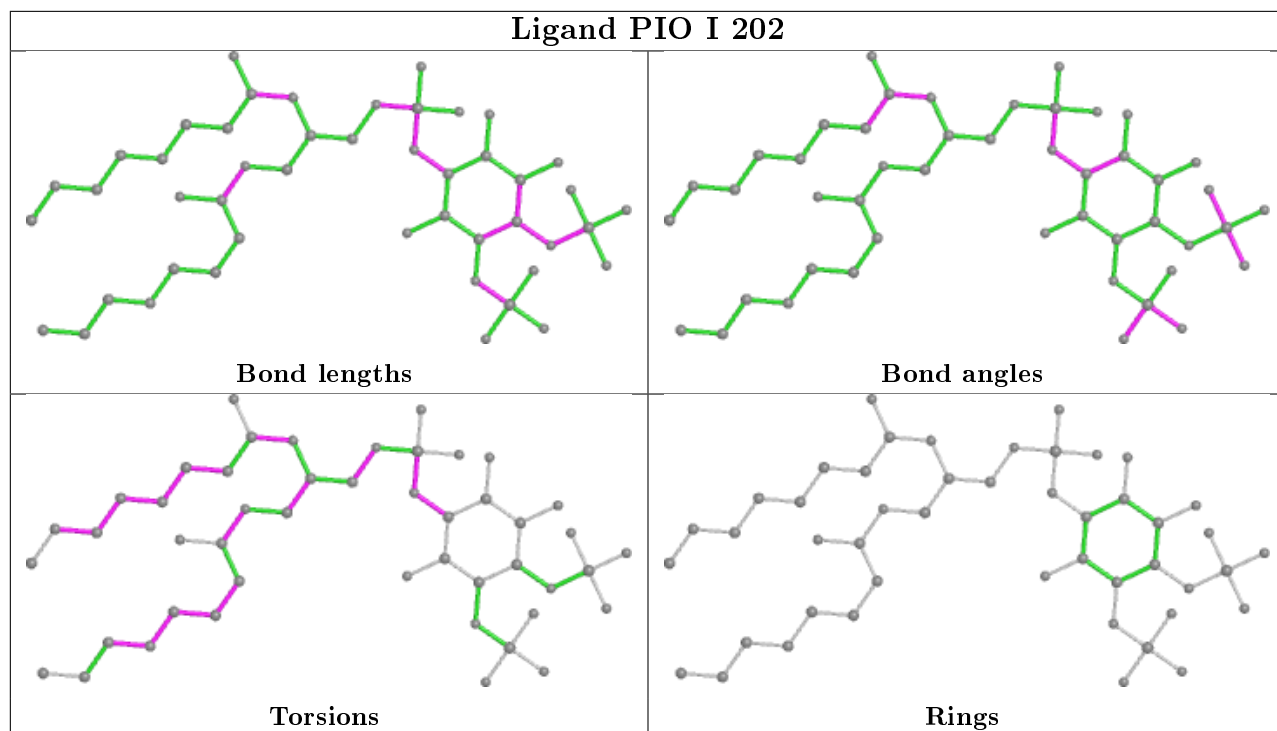


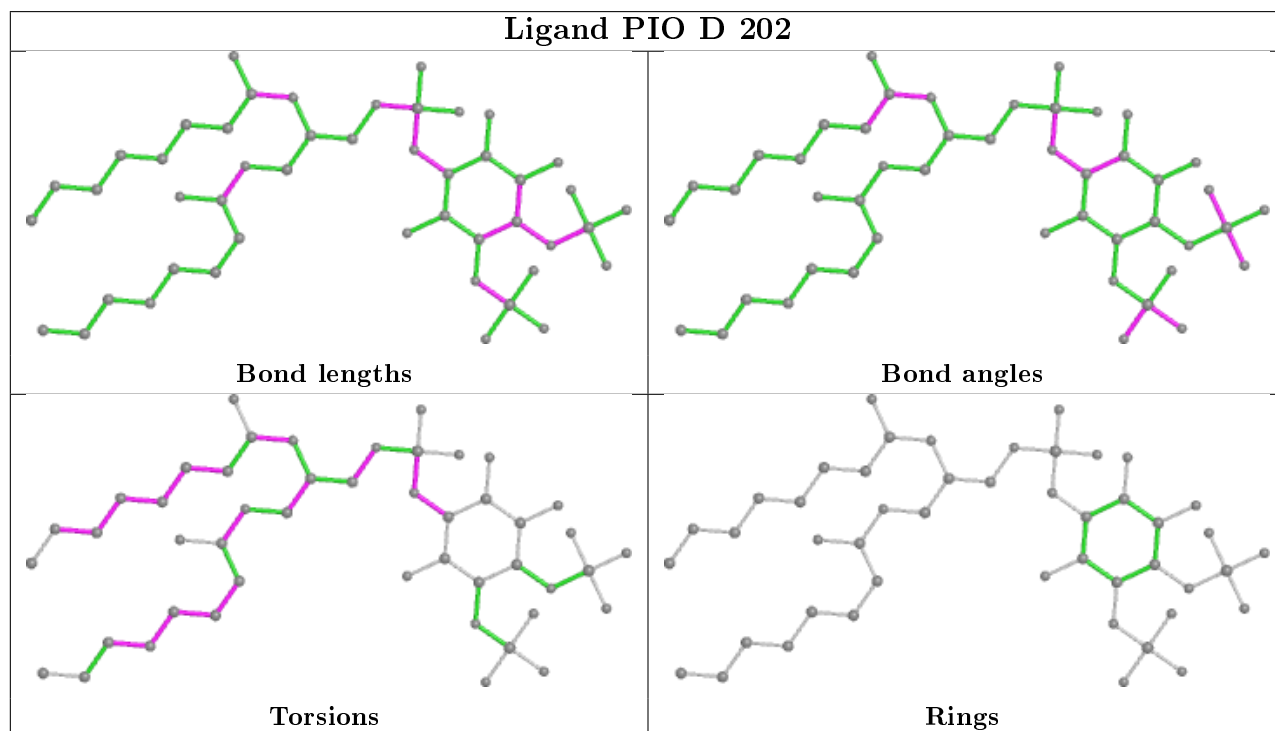
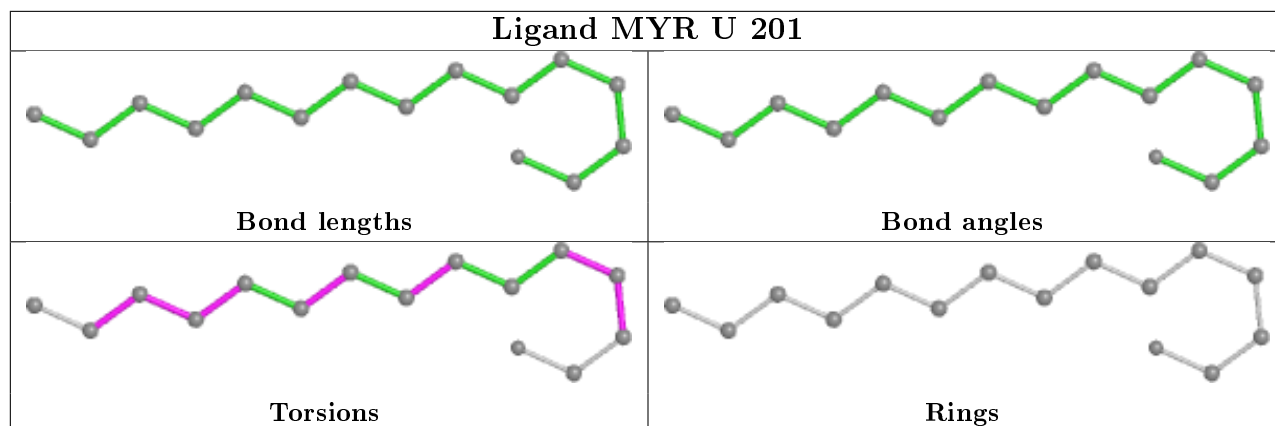


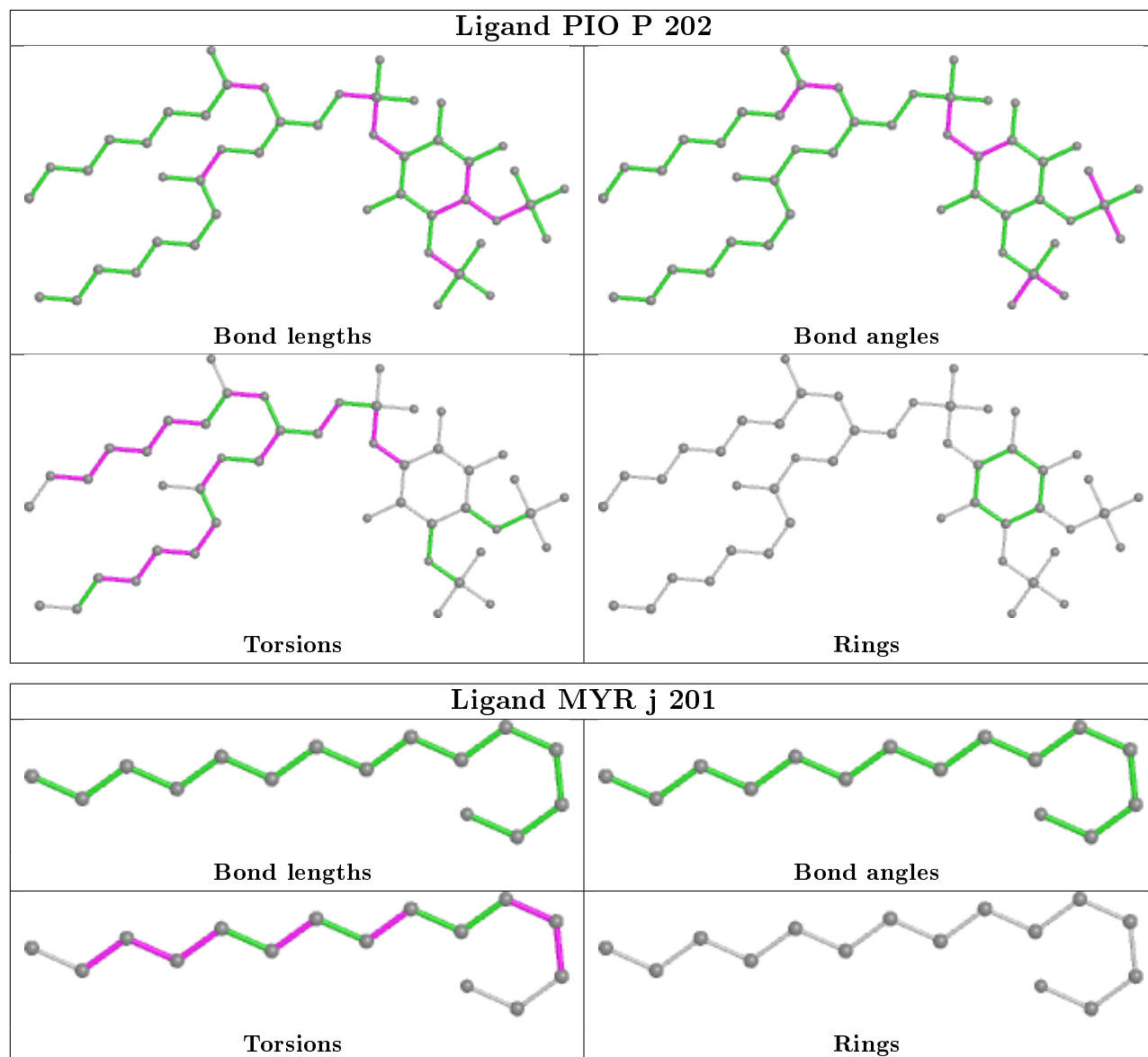


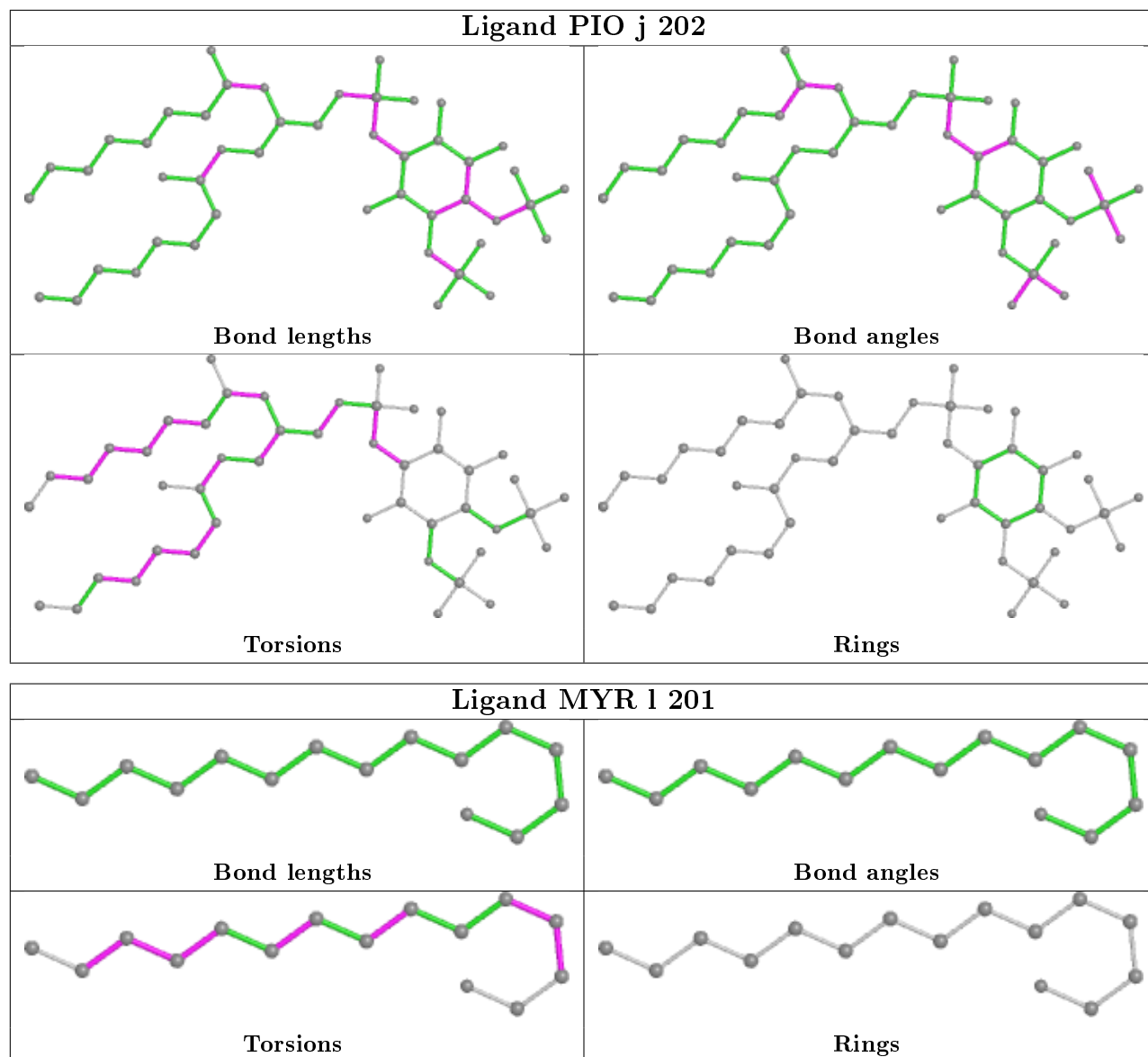


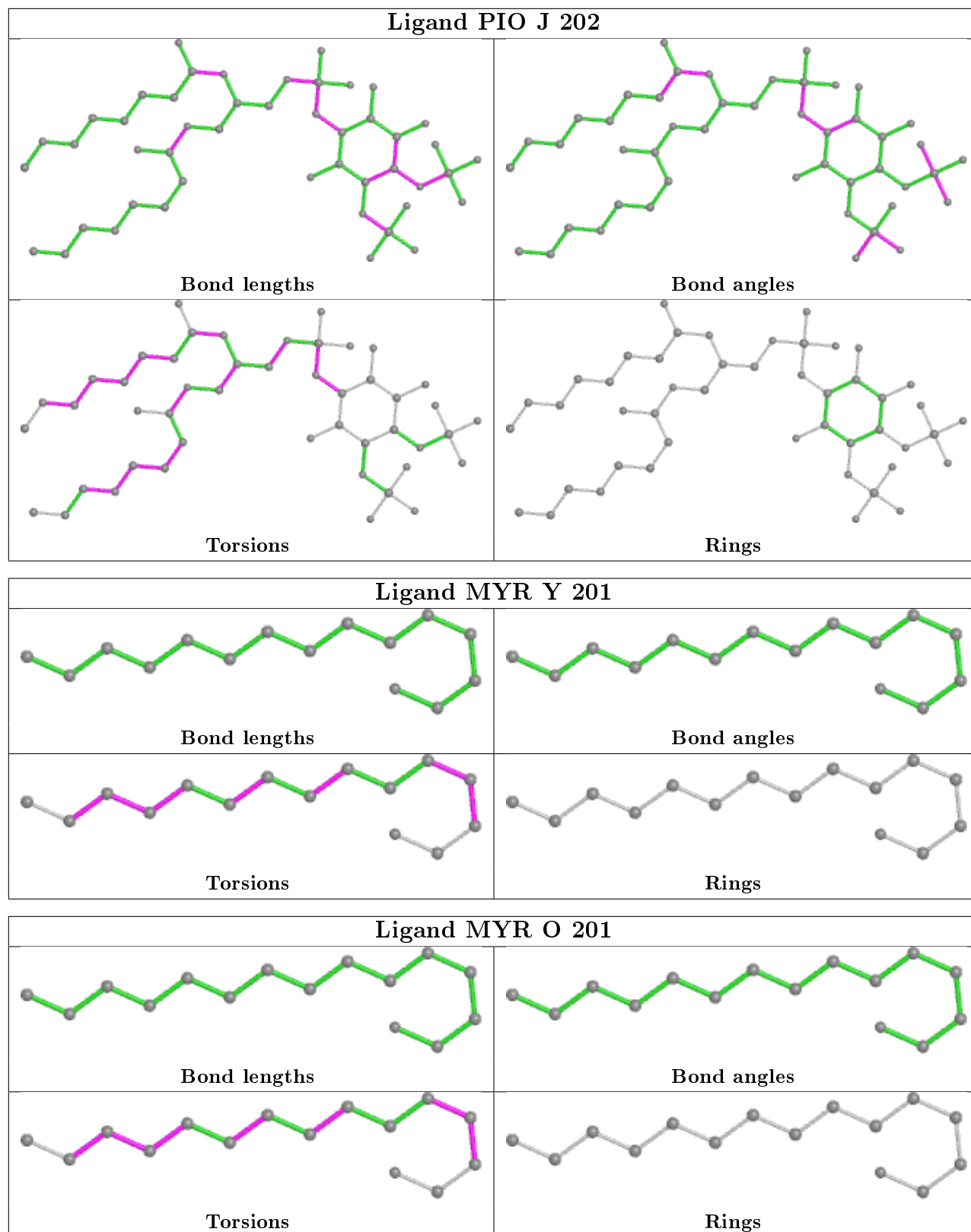


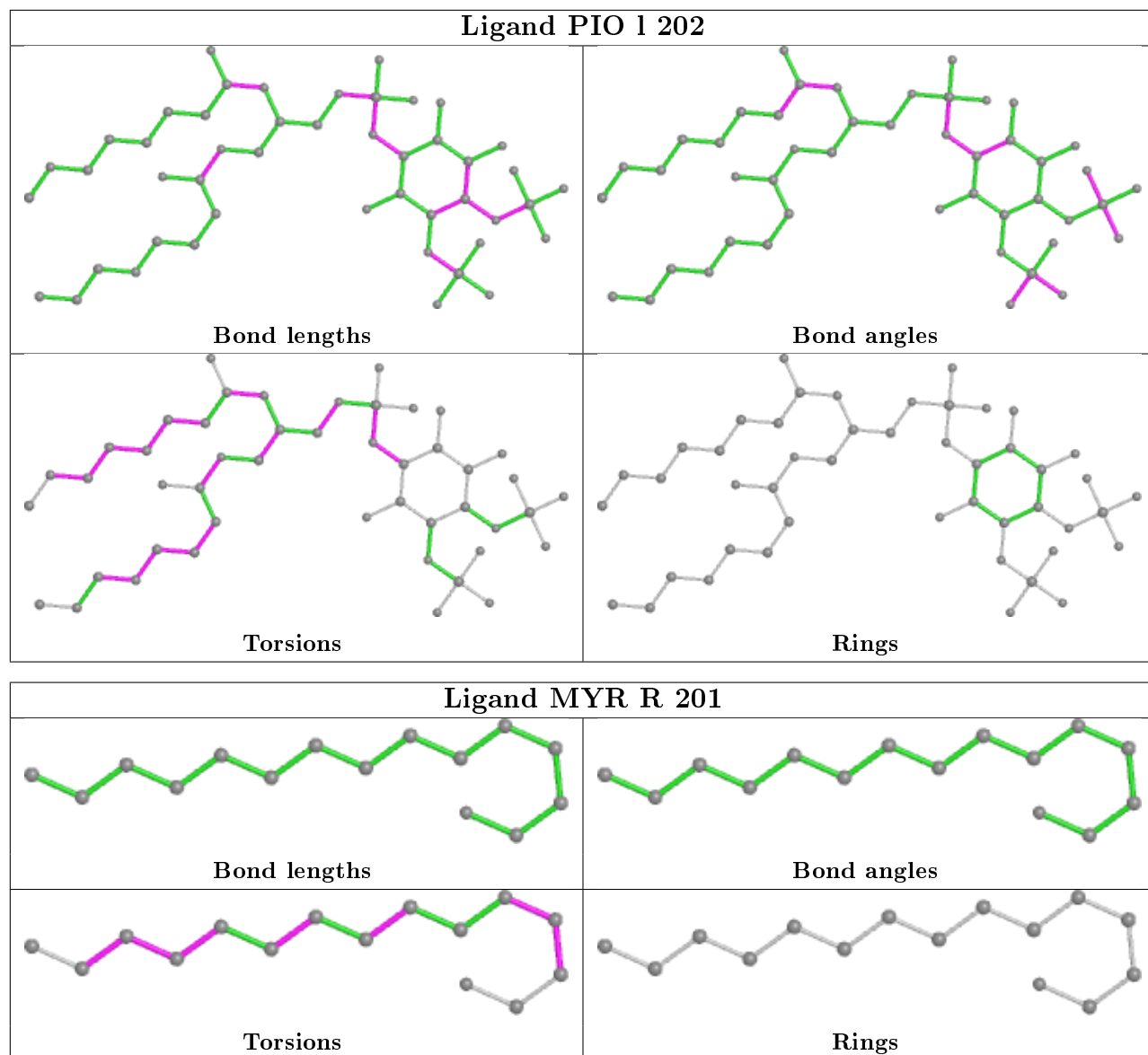


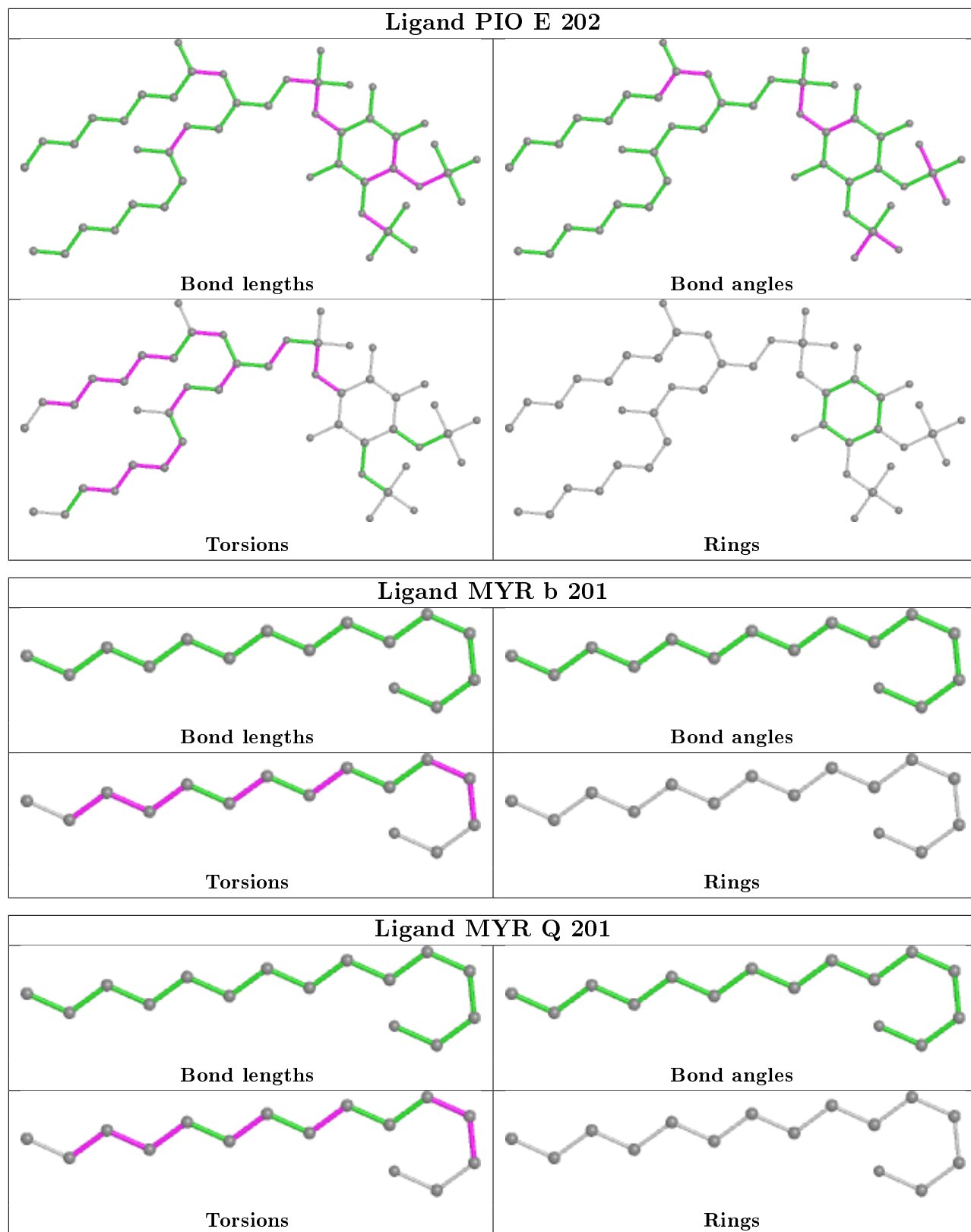


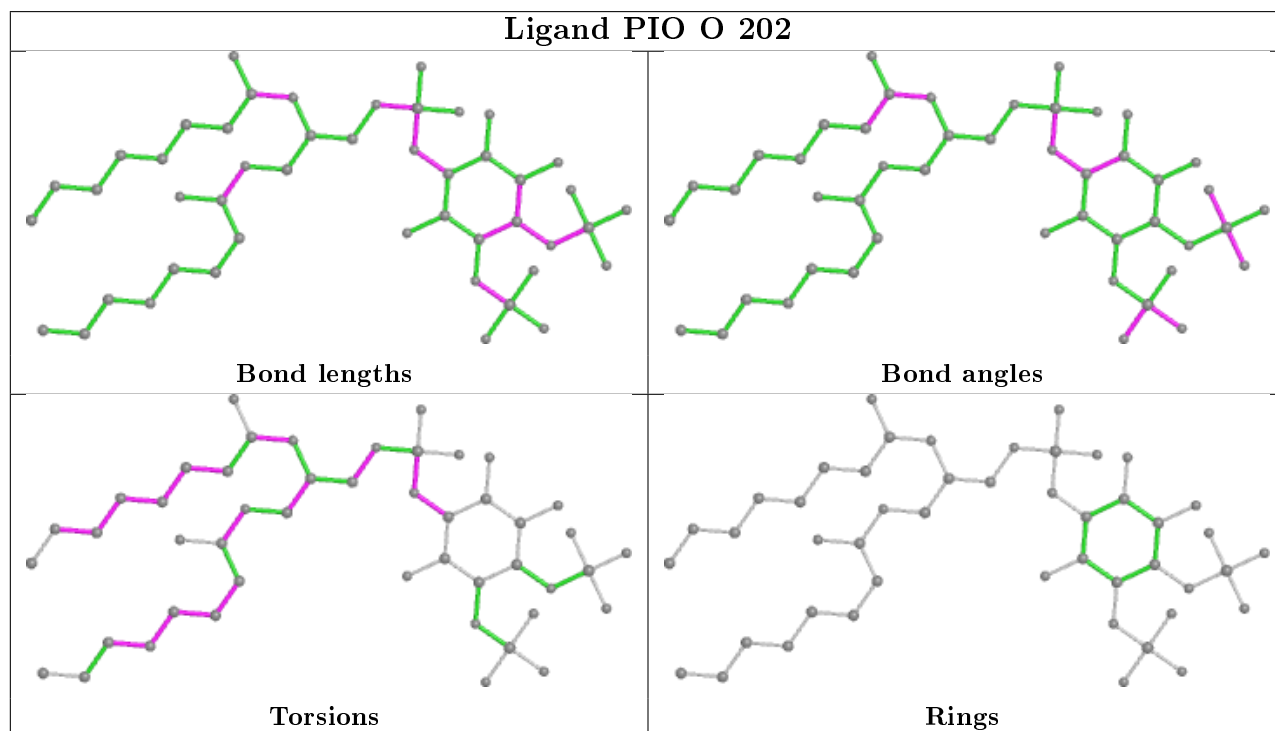
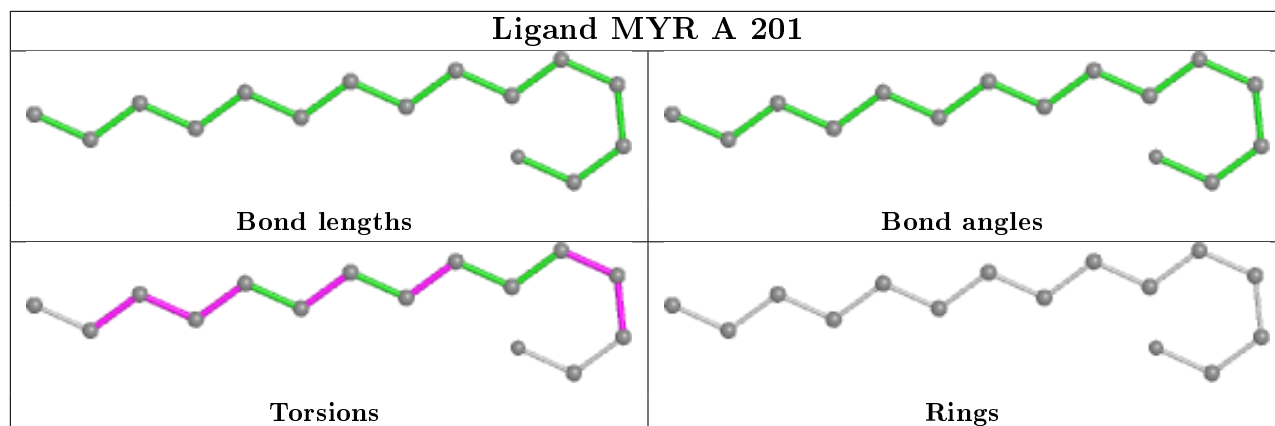


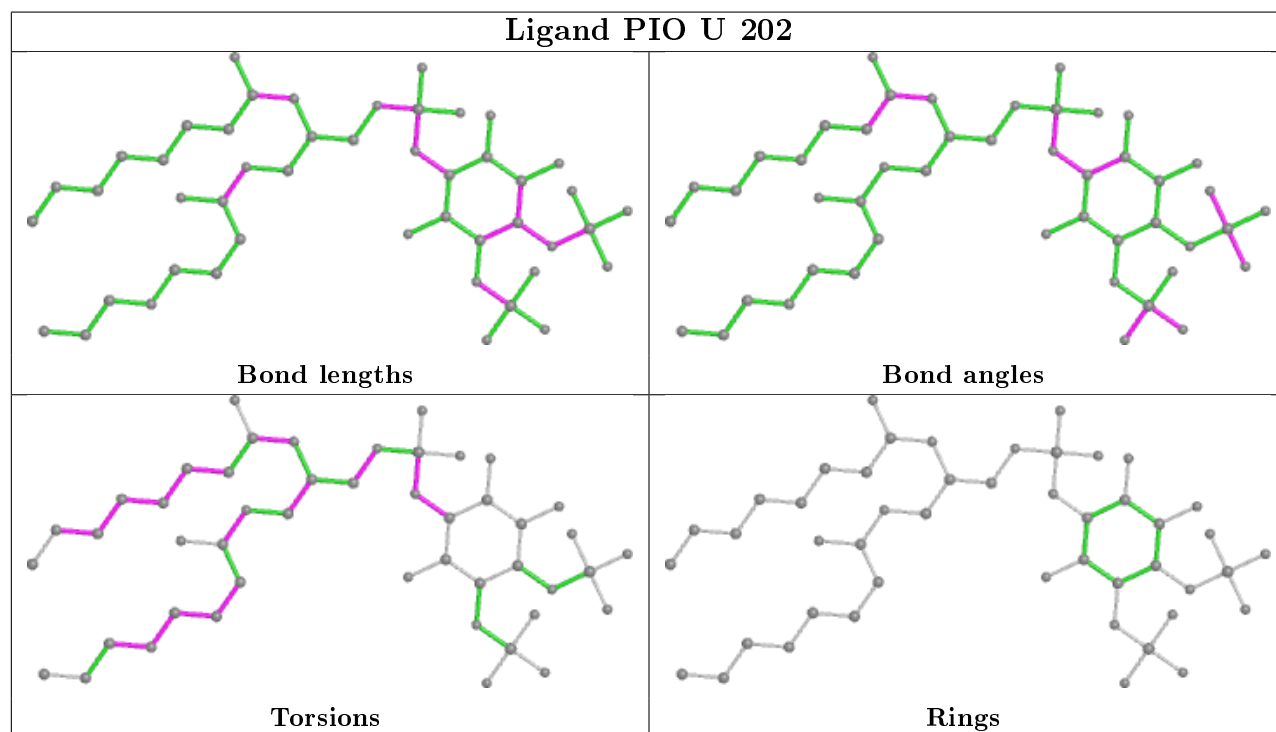
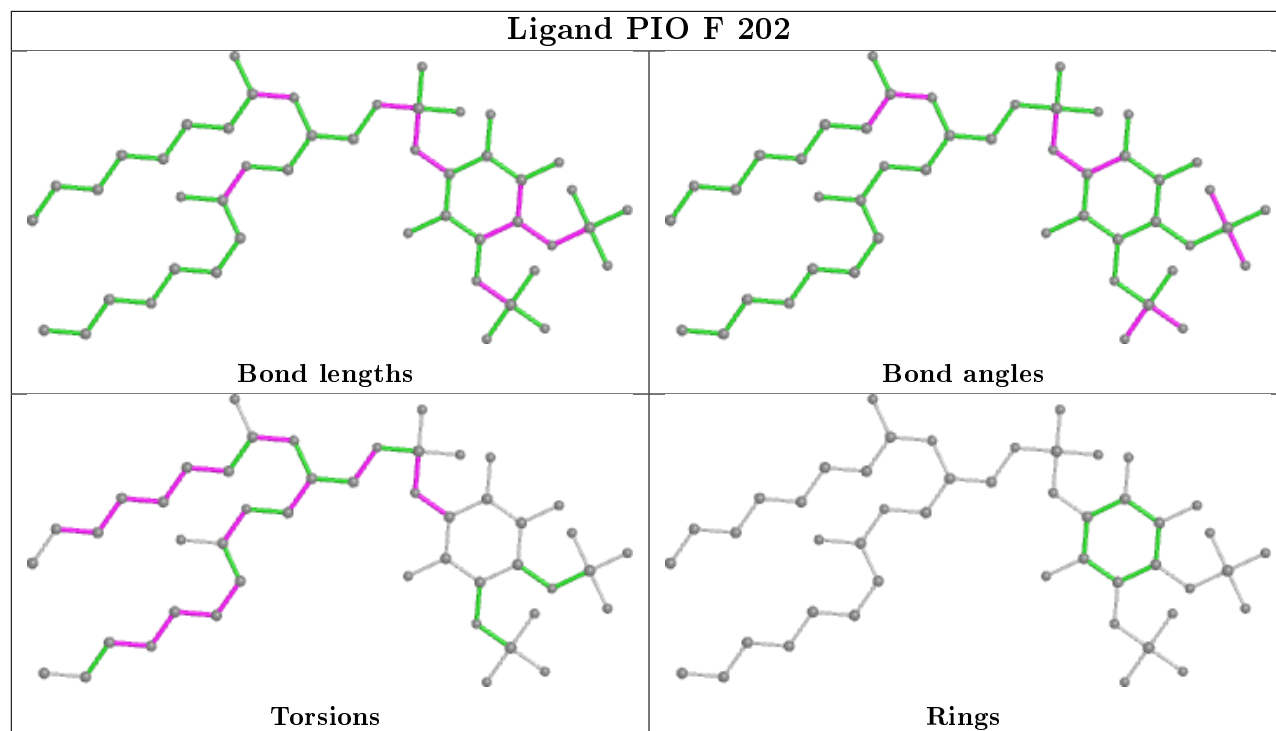


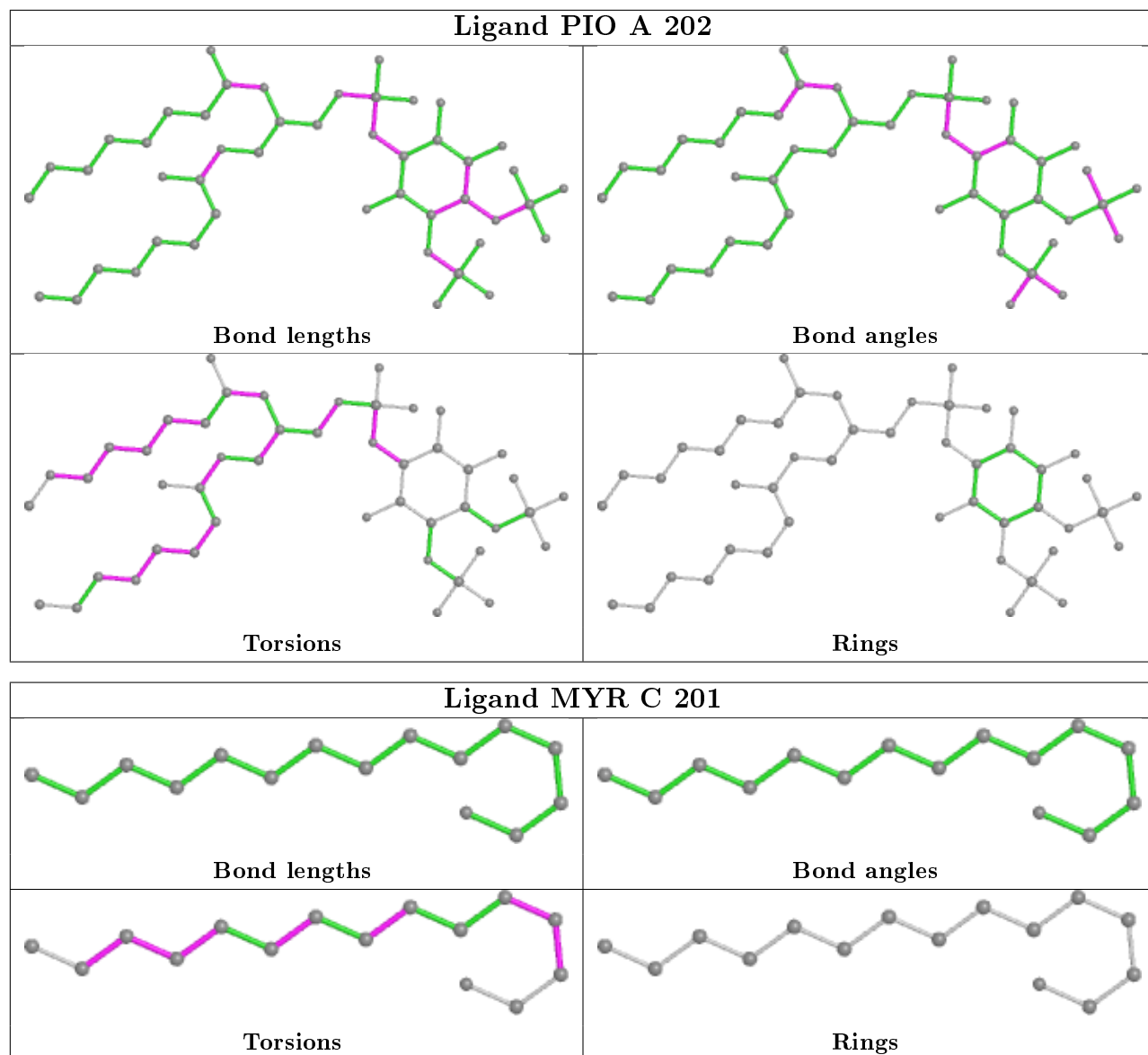


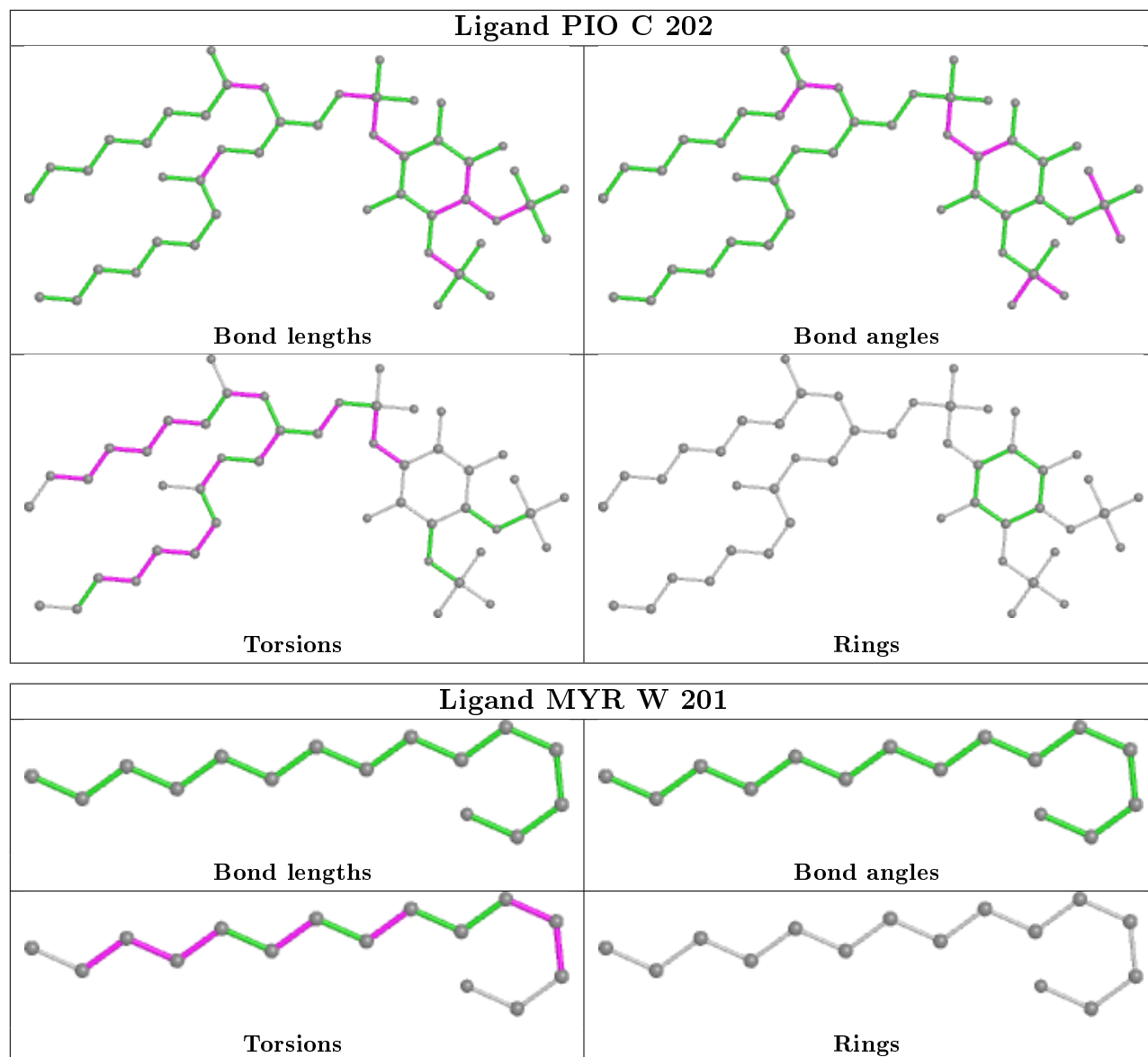


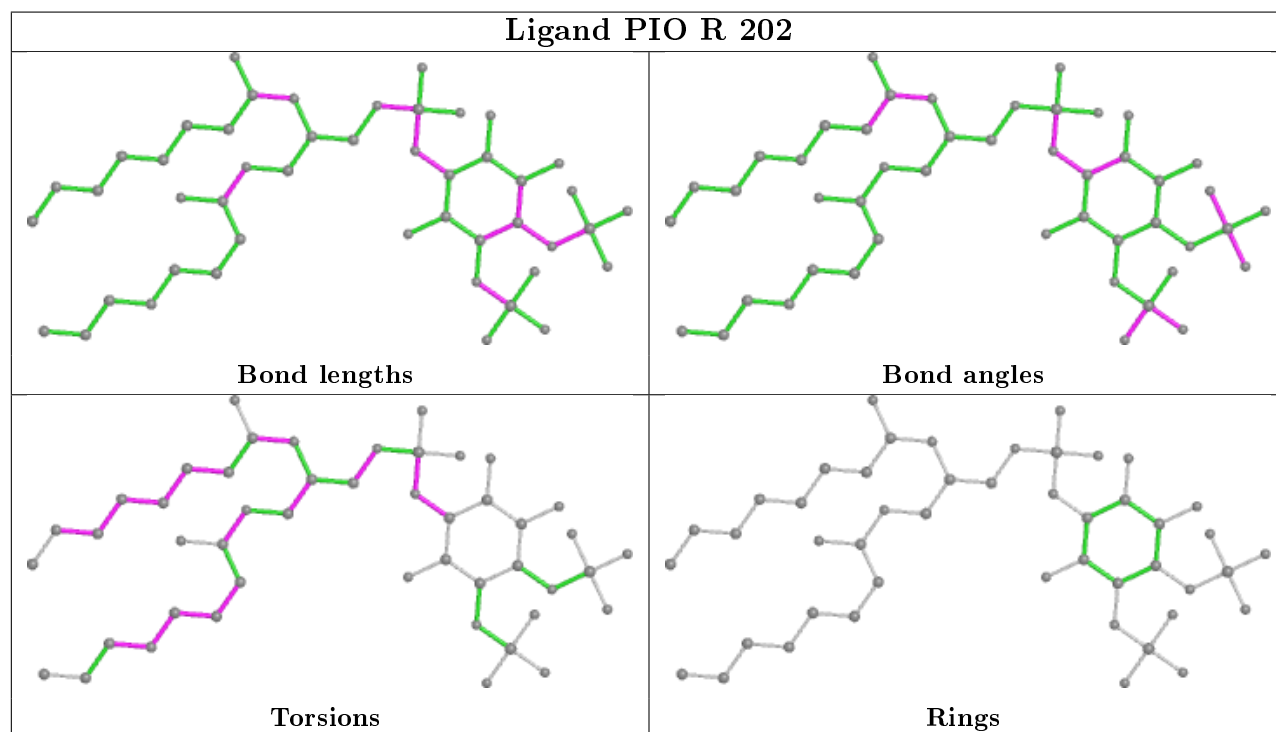
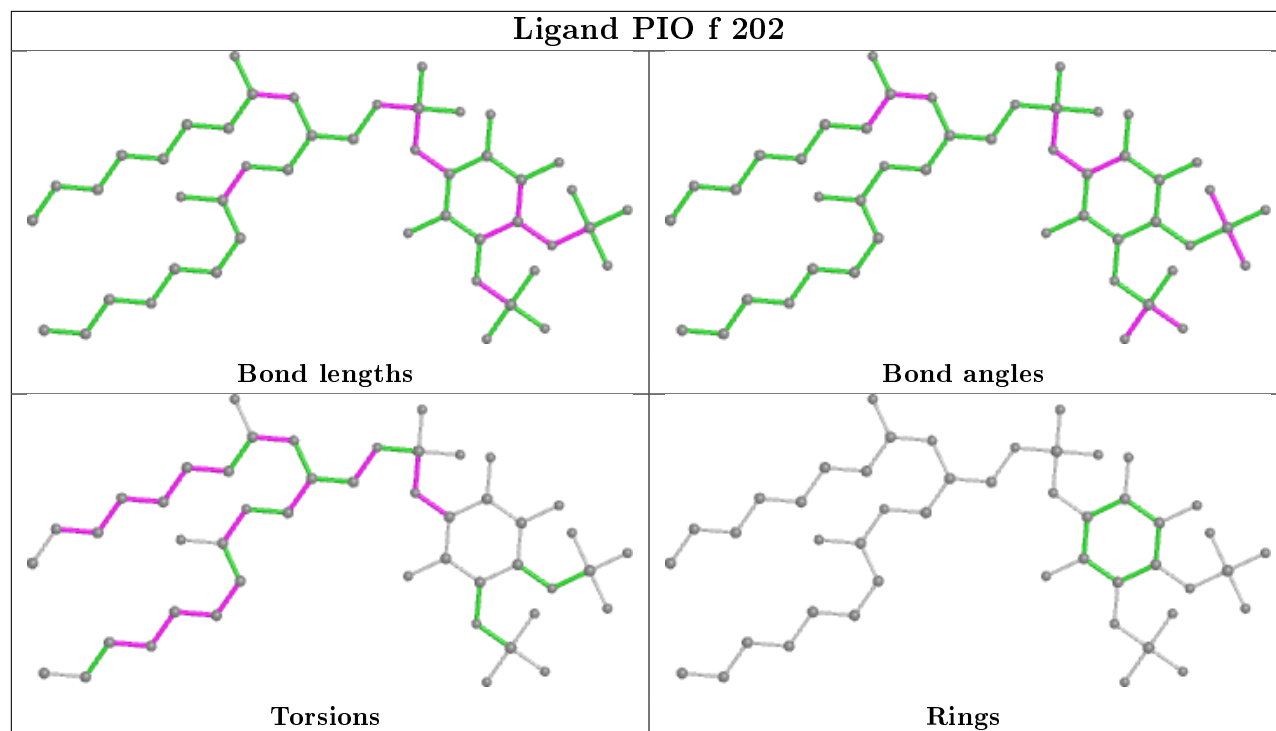


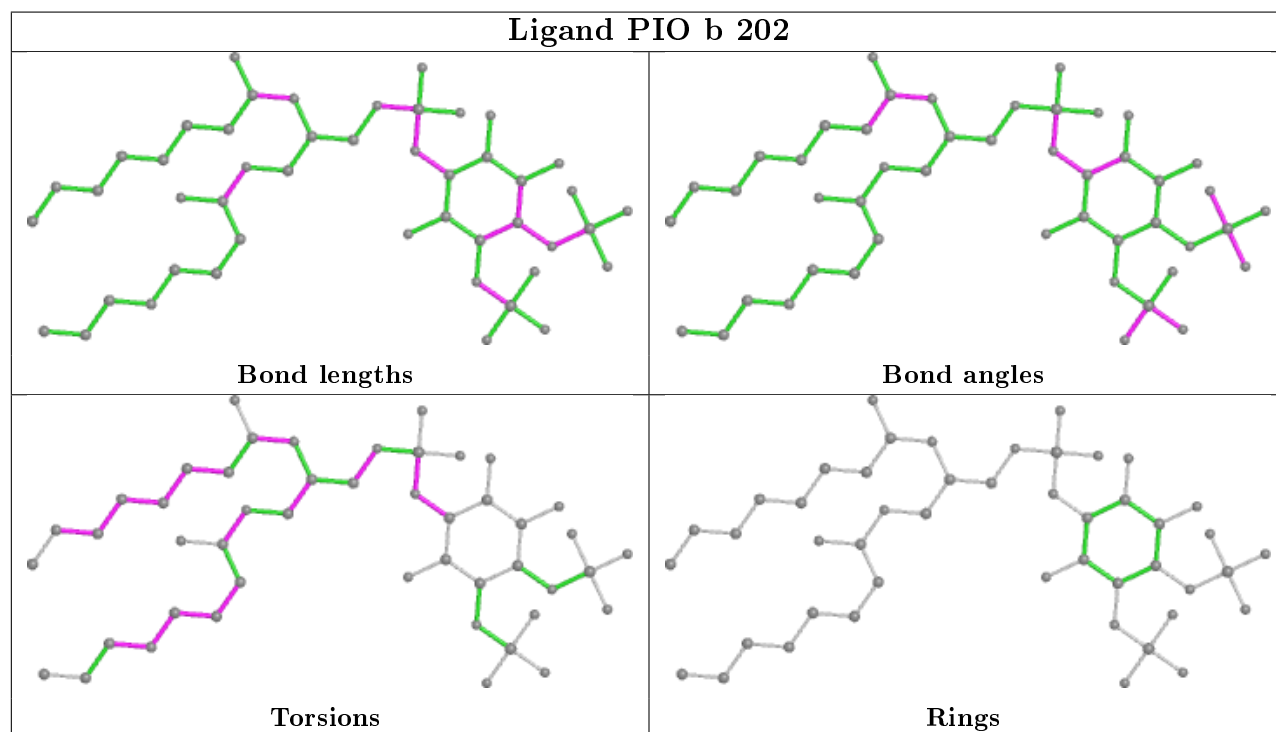
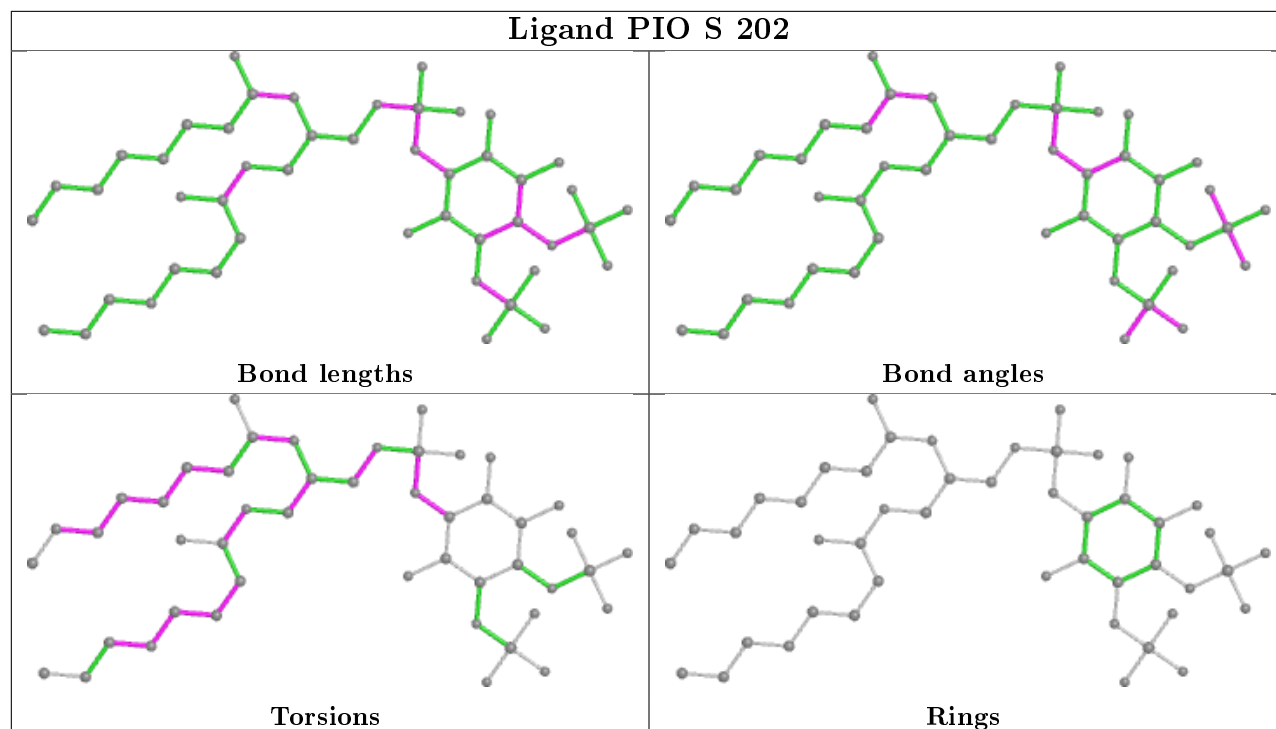


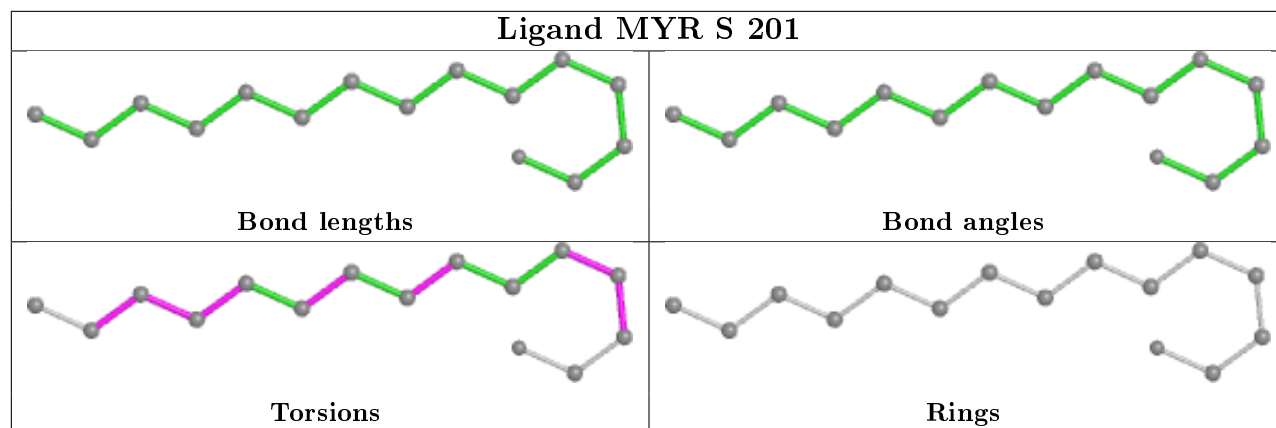












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

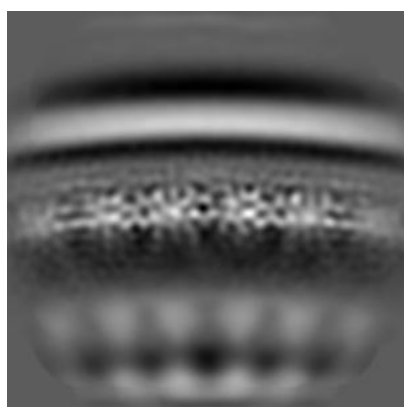
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-13088. These allow visual inspection of the internal detail of the map and identification of artifacts.

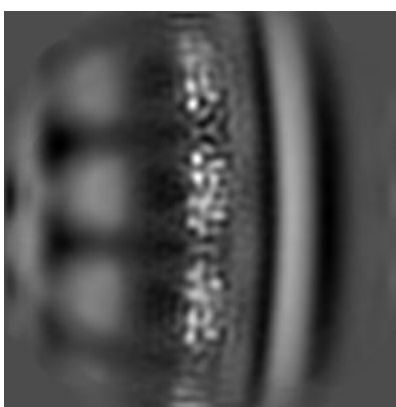
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

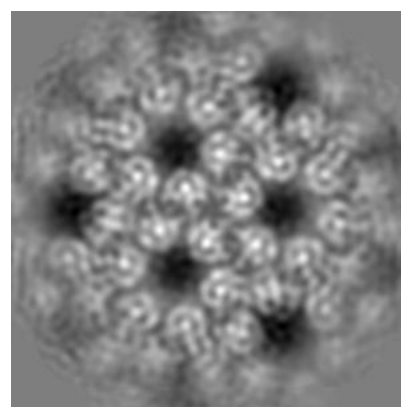
6.1.1 Primary map



X



Y

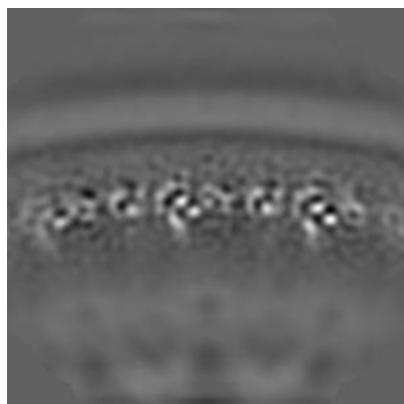


Z

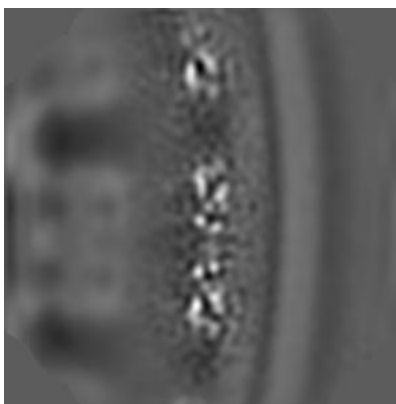
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

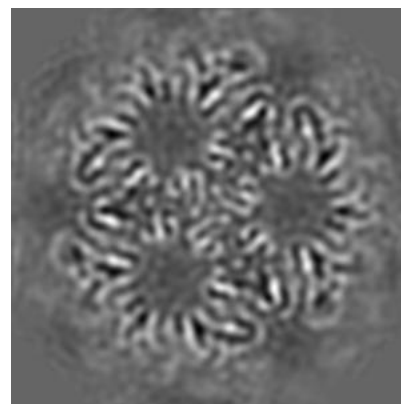
6.2.1 Primary map



X Index: 96



Y Index: 96

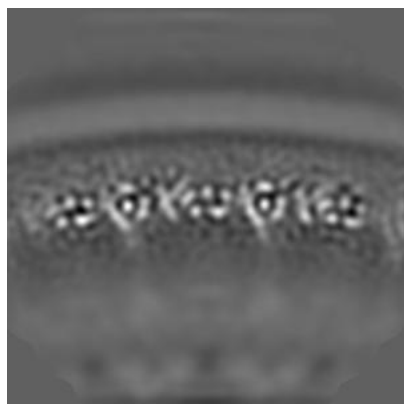


Z Index: 96

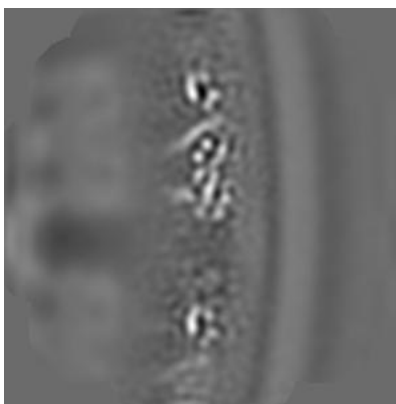
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

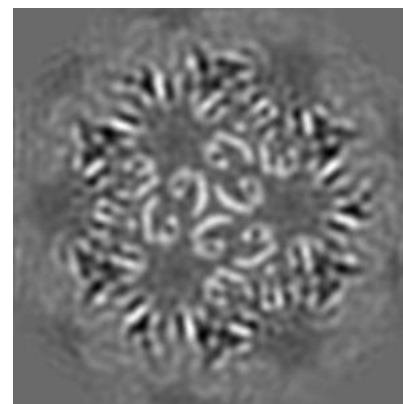
6.3.1 Primary map



X Index: 100



Y Index: 122



Z Index: 94

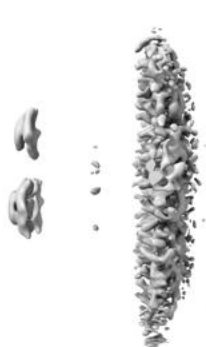
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

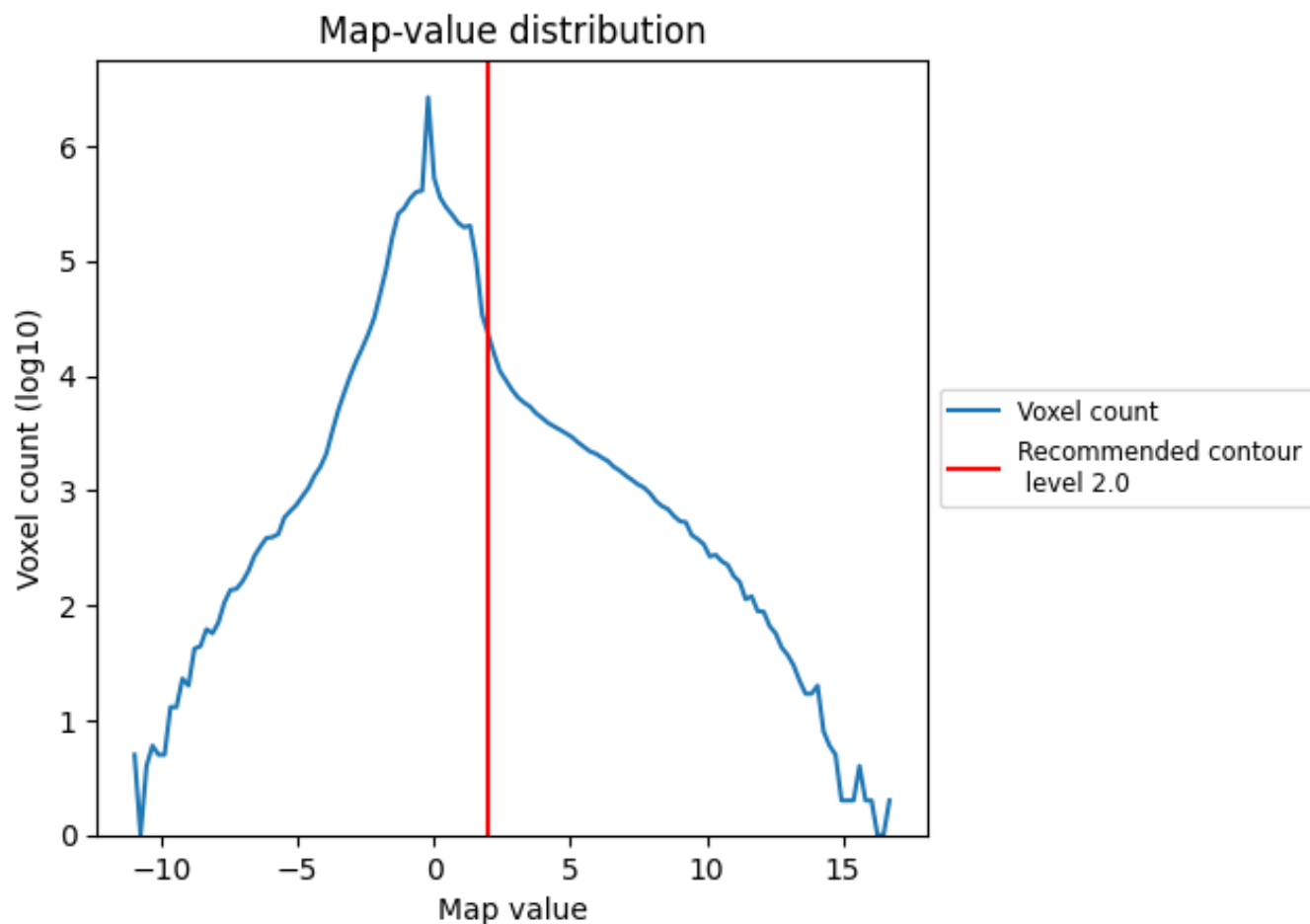
6.5 Mask visualisation

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

7 Map analysis [i](#)

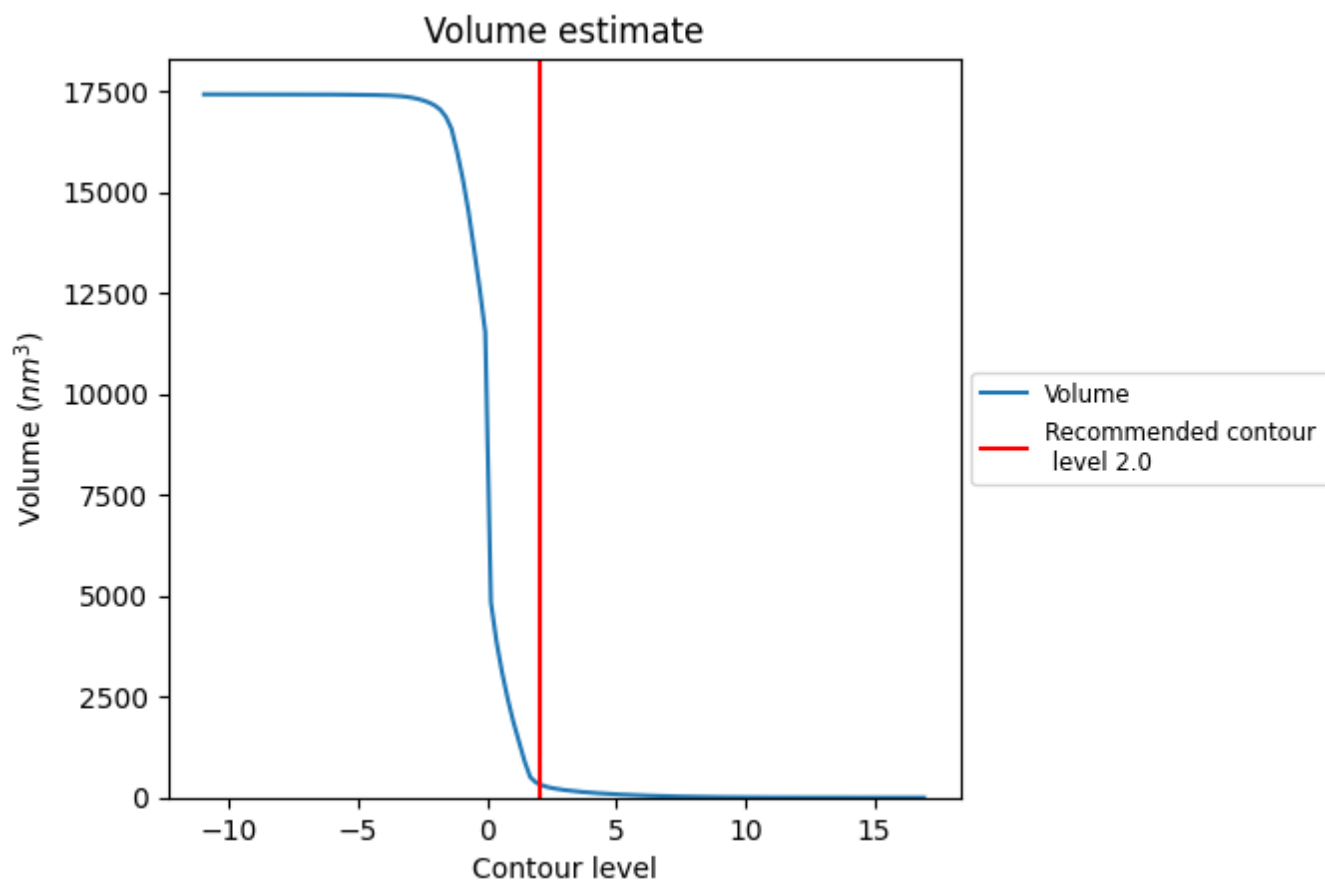
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

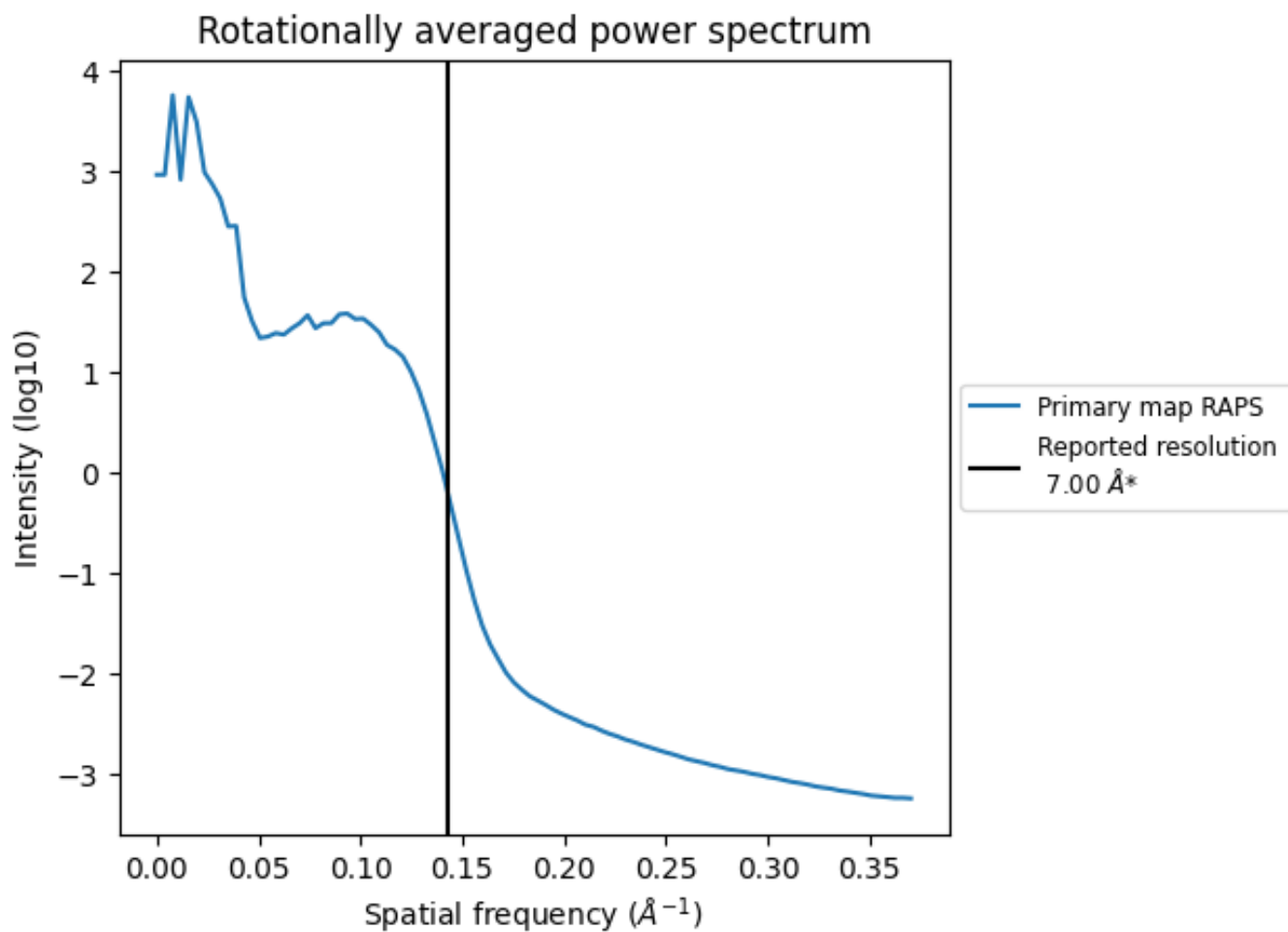
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 339 nm³; this corresponds to an approximate mass of 306 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [\(i\)](#)



*Reported resolution corresponds to spatial frequency of 0.143\AA^{-1}

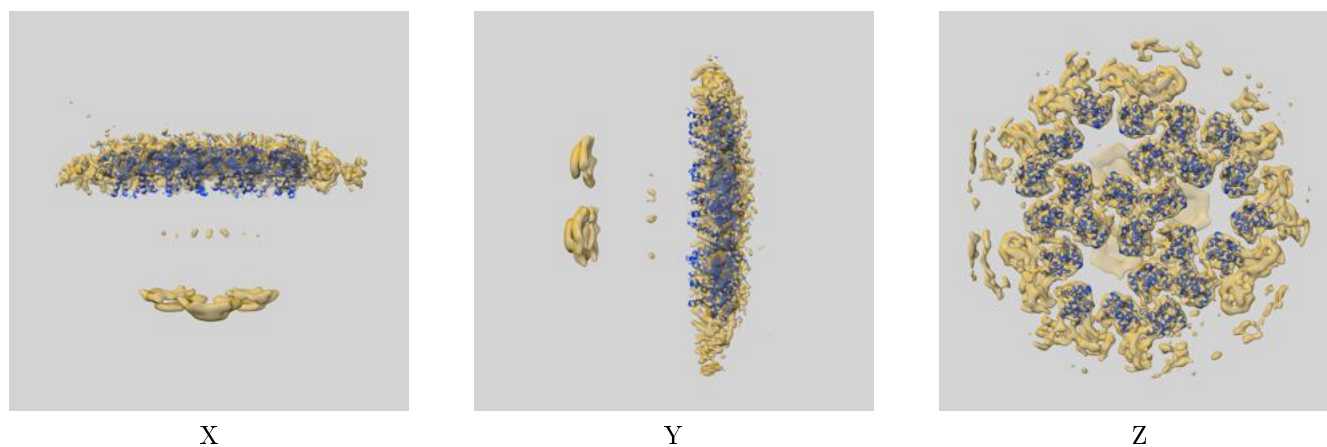
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

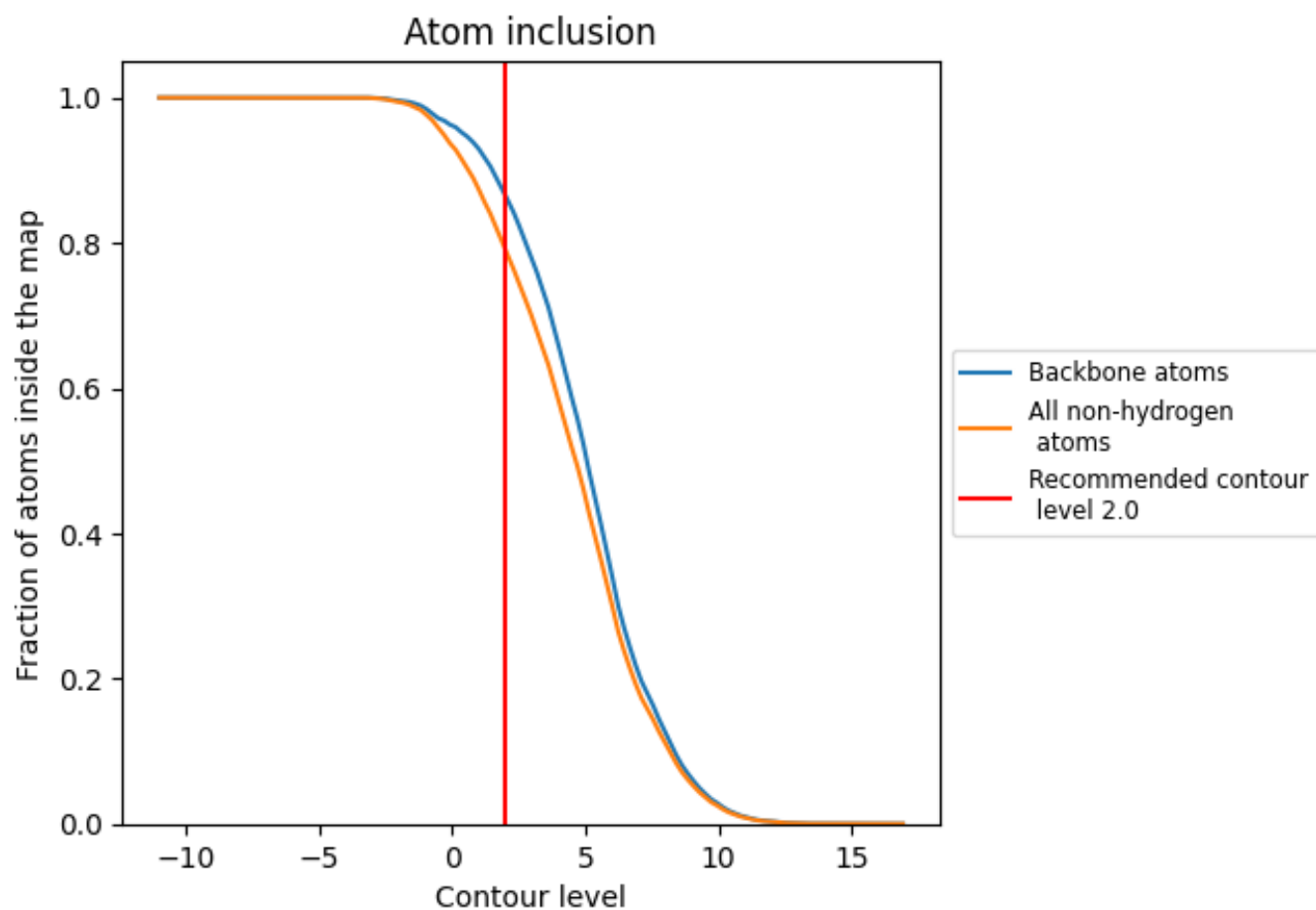
This section contains information regarding the fit between EMDB map EMD-13088 and PDB model 7OVR. Per-residue inclusion information can be found in section 3 on page 9.

9.1 Map-model overlay [i](#)



The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Atom inclusion [i](#)



At the recommended contour level, 87% of all backbone atoms, 79% of all non-hydrogen atoms, are inside the map.