



Full wwPDB NMR Structure Validation Report ⓘ

Jun 22, 2024 – 01:58 PM EDT

PDB ID : 6CLZ
BMRB ID : 30425
Title : MT1-MMP HPX domain with Blade 4 Loop Bound to Nanodiscs
Authors : Marcink, T.C.; Van Doren, S.R.
Deposited on : 2018-03-02

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

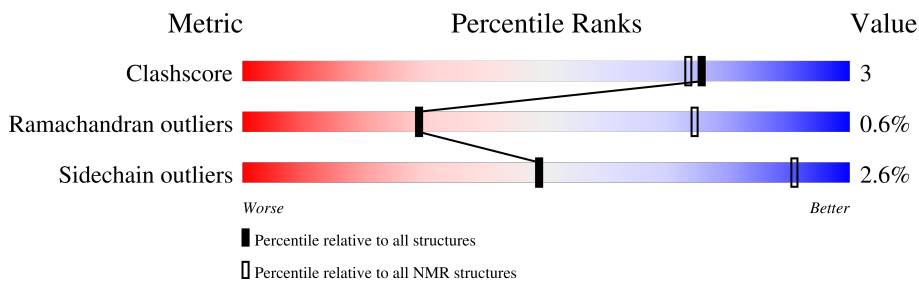
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 4%.

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)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A	196	76% (Green), 23% (Yellow), 1% (Orange), 0% (Red), 0% (Cyan), 0% (Grey)
2	B	211	85% (Green), 14% (Yellow), 0% (Orange), 0% (Red), 0% (Cyan), 0% (Grey)
2	C	211	85% (Green), 14% (Yellow), 0% (Orange), 0% (Red), 0% (Cyan), 0% (Grey)

2 Ensemble composition and analysis

This entry contains 15 models. Model 9 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:316-A:511, B:55-B:265, C:55-C:265 (618)	1.59	9

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 4 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 4, 5, 6
2	7, 8, 9, 10
3	13, 14, 15
4	11, 12

3 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 35924 atoms, of which 20751 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Matrix metalloproteinase-14.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	196	3202	1067	1565	277	284	9	0

- Molecule 2 is a protein called Apolipoprotein A-I.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
2	B	211	3498	1101	1745	308	340	4	0
2	C	211	3498	1101	1745	308	340	4	0

There are 44 discrepancies between the modelled and reference sequences:

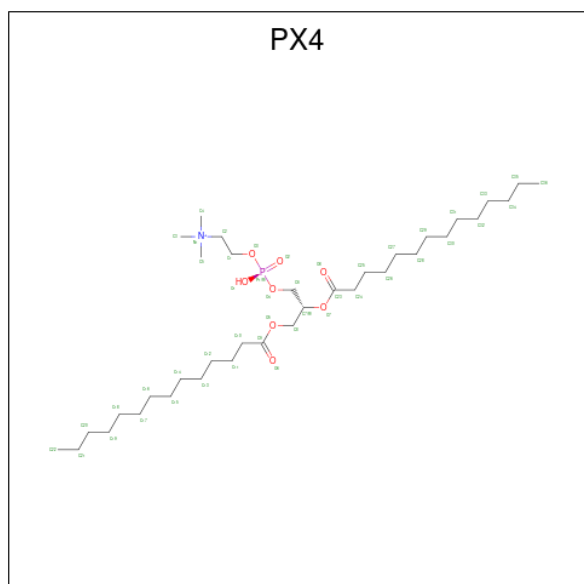
Chain	Residue	Modelled	Actual	Comment	Reference
B	99	PRO	-	insertion	UNP P02647
B	100	TYR	-	insertion	UNP P02647
B	101	LEU	-	insertion	UNP P02647
B	102	ASP	-	insertion	UNP P02647
B	103	ASP	-	insertion	UNP P02647
B	104	PHE	-	insertion	UNP P02647
B	105	GLN	-	insertion	UNP P02647
B	106	LYS	-	insertion	UNP P02647
B	107	LYS	-	insertion	UNP P02647
B	108	TRP	-	insertion	UNP P02647
B	109	GLN	-	insertion	UNP P02647
B	110	GLU	-	insertion	UNP P02647
B	111	GLU	-	insertion	UNP P02647
B	112	MET	-	insertion	UNP P02647
B	113	GLU	-	insertion	UNP P02647
B	114	LEU	-	insertion	UNP P02647
B	115	TYR	-	insertion	UNP P02647
B	116	ARG	-	insertion	UNP P02647
B	117	GLN	-	insertion	UNP P02647
B	118	LYS	-	insertion	UNP P02647
B	119	VAL	-	insertion	UNP P02647
B	120	GLU	-	insertion	UNP P02647
C	99	PRO	-	insertion	UNP P02647

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Chain	Residue	Modelled	Actual	Comment	Reference
C	100	TYR	-	insertion	UNP P02647
C	101	LEU	-	insertion	UNP P02647
C	102	ASP	-	insertion	UNP P02647
C	103	ASP	-	insertion	UNP P02647
C	104	PHE	-	insertion	UNP P02647
C	105	GLN	-	insertion	UNP P02647
C	106	LYS	-	insertion	UNP P02647
C	107	LYS	-	insertion	UNP P02647
C	108	TRP	-	insertion	UNP P02647
C	109	GLN	-	insertion	UNP P02647
C	110	GLU	-	insertion	UNP P02647
C	111	GLU	-	insertion	UNP P02647
C	112	MET	-	insertion	UNP P02647
C	113	GLU	-	insertion	UNP P02647
C	114	LEU	-	insertion	UNP P02647
C	115	TYR	-	insertion	UNP P02647
C	116	ARG	-	insertion	UNP P02647
C	117	GLN	-	insertion	UNP P02647
C	118	LYS	-	insertion	UNP P02647
C	119	VAL	-	insertion	UNP P02647
C	120	GLU	-	insertion	UNP P02647

- Molecule 3 is 1,2-DIMYRISTOYL-SN-GLYCERO-3-PHOSPHOCHOLINE (three-letter code: PX4) (formula: C₃₆H₇₃NO₈P).



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Mol	Chain	Residues	Atoms					
			Total	C	H	N	O	P
3	C	1	118	36	72	1	8	1
3	C	1	118	36	72	1	8	1
3	C	1	118	36	72	1	8	1
3	C	1	118	36	72	1	8	1
3	C	1	118	36	72	1	8	1
3	C	1	118	36	72	1	8	1
3	C	1	118	36	72	1	8	1

- Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	
4	A	1	Total	Na
			1	1

- Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

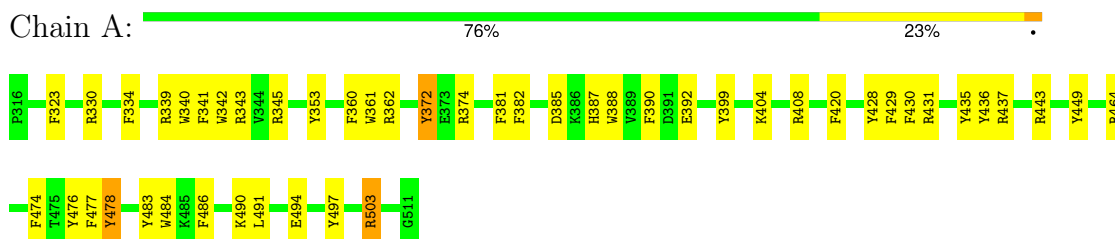
Mol	Chain	Residues	Atoms	
5	A	1	Total	Cl
			1	1

4 Residue-property plots

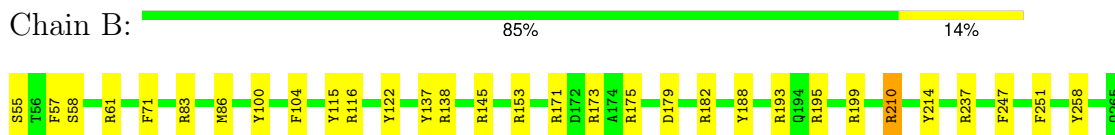
4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-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 outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

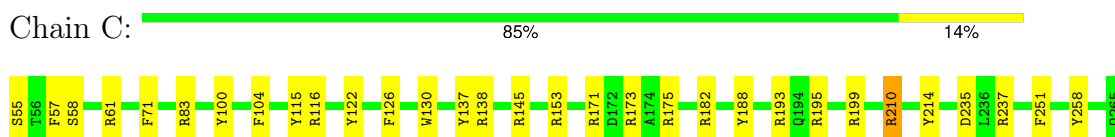
- Molecule 1: Matrix metalloproteinase-14



- Molecule 2: Apolipoprotein A-I



- Molecule 2: Apolipoprotein A-I



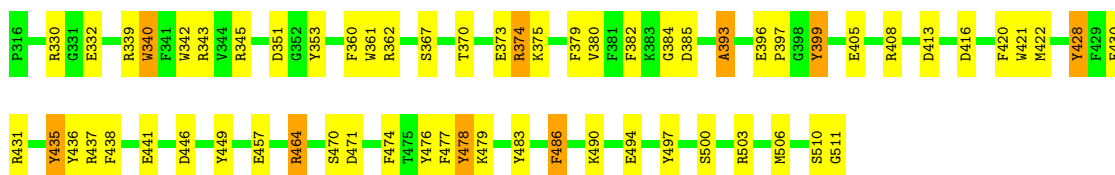
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

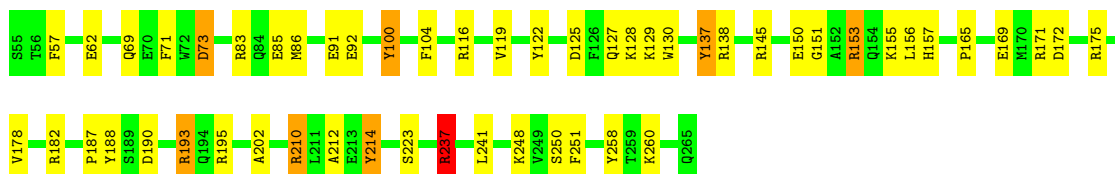
- Molecule 1: Matrix metalloproteinase-14





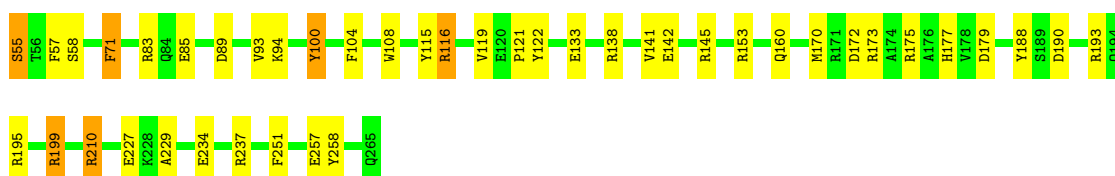
- Molecule 2: Apolipoprotein A-I

Chain B: 75% 21%



- Molecule 2: Apolipoprotein A-I

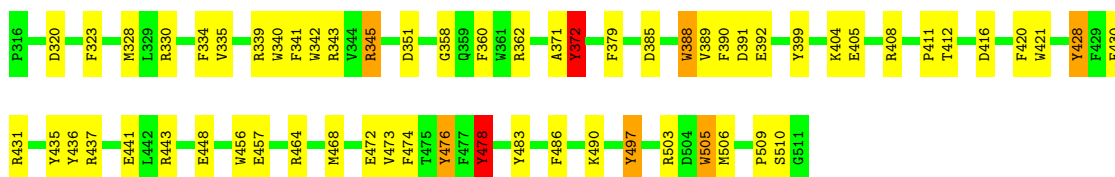
Chain C: 80% 18%



4.2.2 Score per residue for model 2

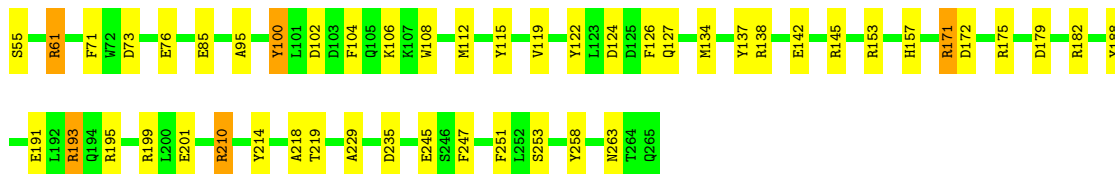
- Molecule 1: Matrix metalloproteinase-14

Chain A: 69% 27%

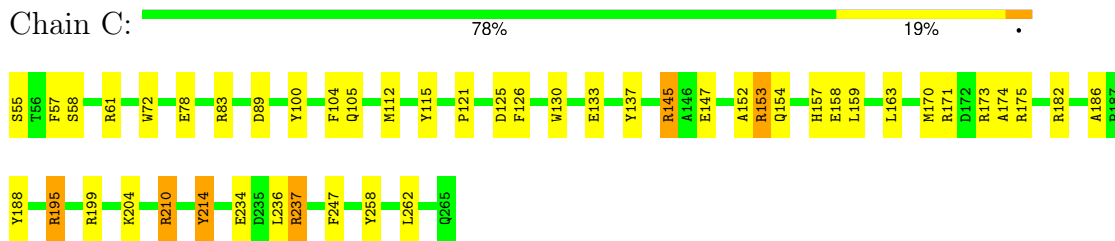


- Molecule 2: Apolipoprotein A-I

Chain B: 77% 21%

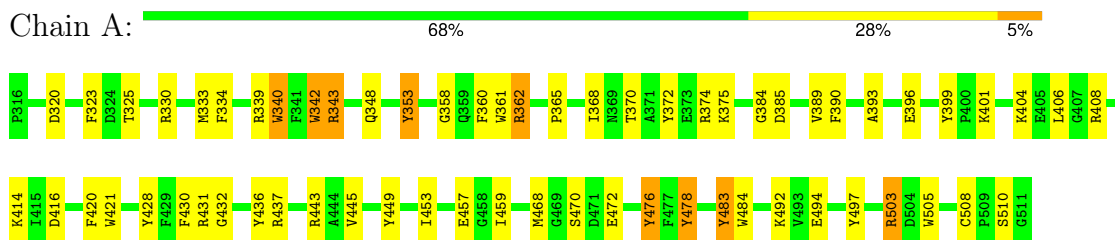


- Molecule 2: Apolipoprotein A-I

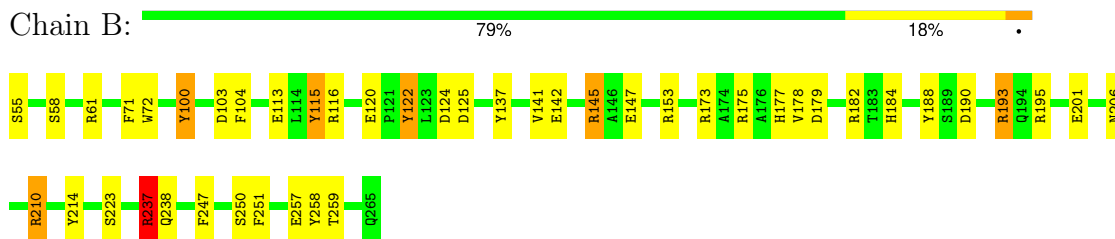


4.2.3 Score per residue for model 3

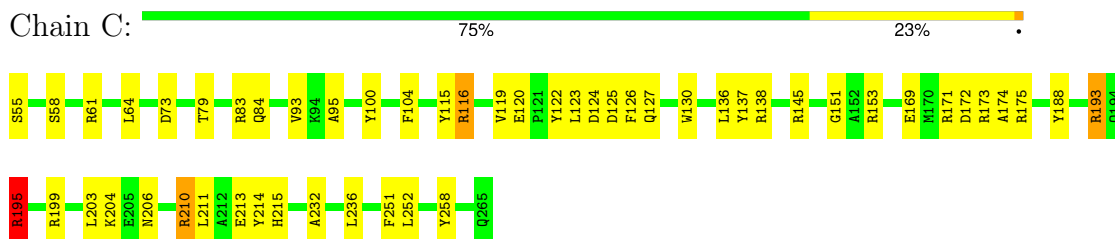
- Molecule 1: Matrix metalloproteinase-14



- Molecule 2: Apolipoprotein A-I

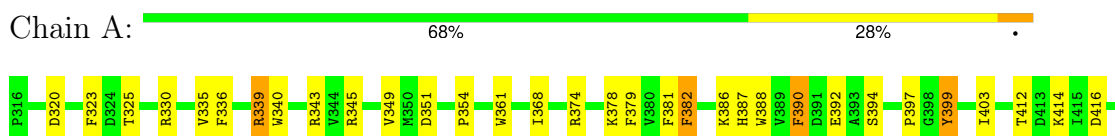


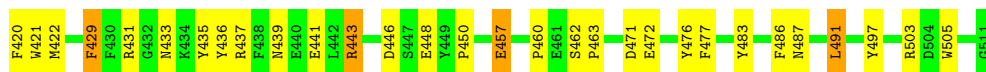
- Molecule 2: Apolipoprotein A-I



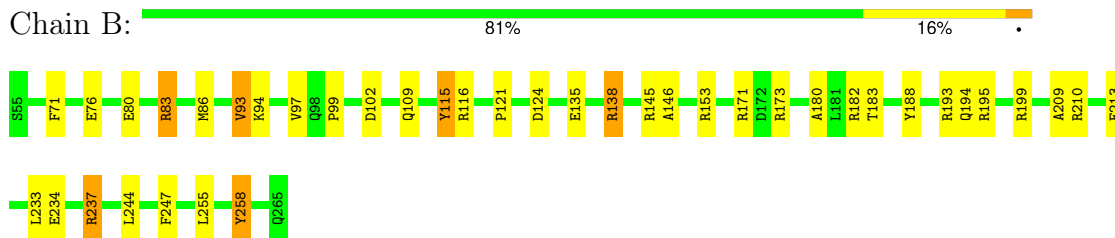
4.2.4 Score per residue for model 4

- Molecule 1: Matrix metalloproteinase-14

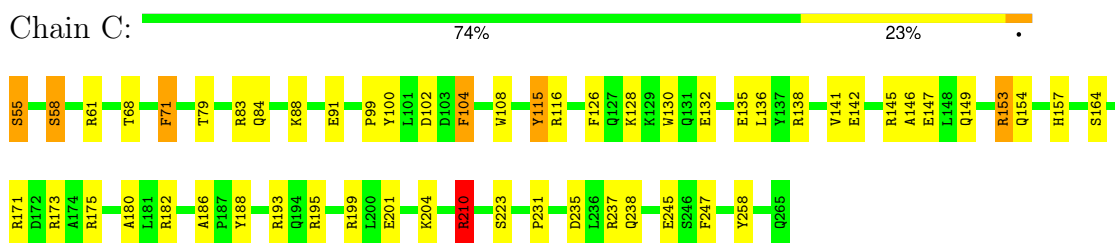




- Molecule 2: Apolipoprotein A-I

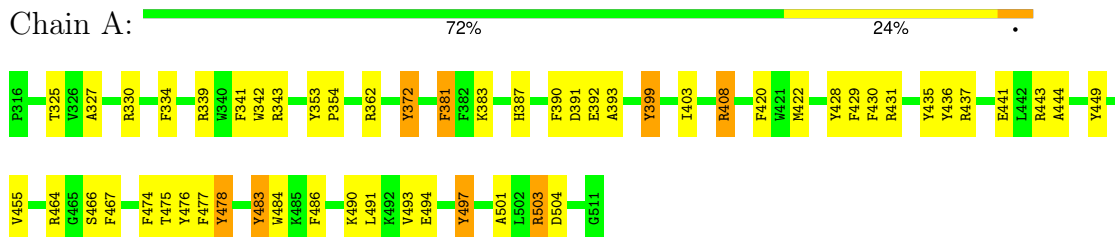


- Molecule 2: Apolipoprotein A-I

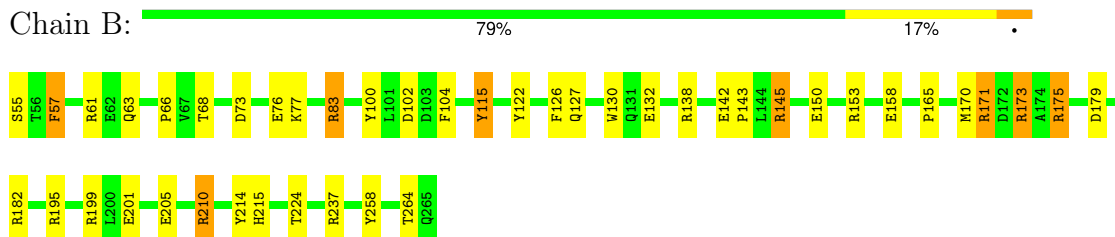


4.2.5 Score per residue for model 5

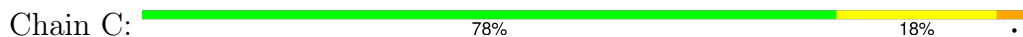
- Molecule 1: Matrix metalloproteinase-14

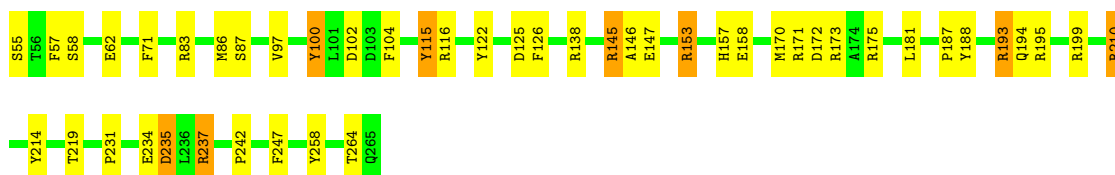


- Molecule 2: Apolipoprotein A-I



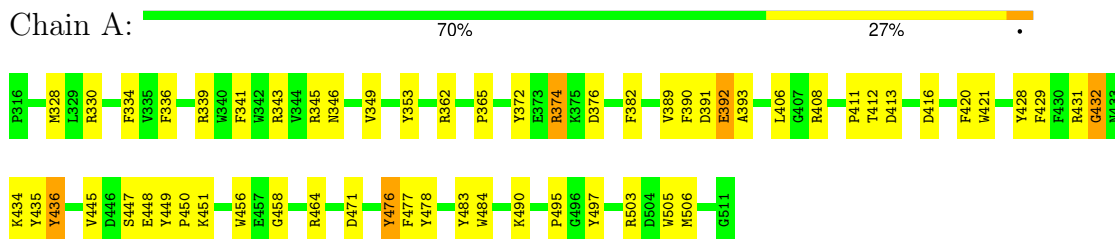
- Molecule 2: Apolipoprotein A-I



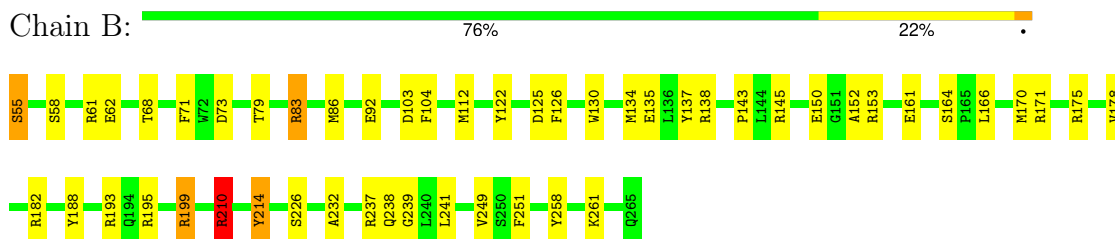


4.2.6 Score per residue for model 6

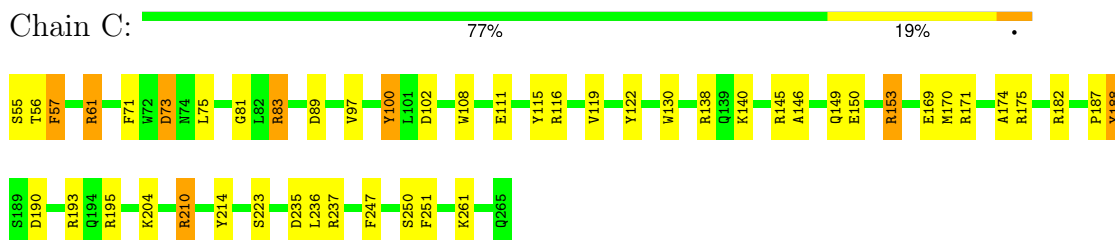
- Molecule 1: Matrix metalloproteinase-14



- Molecule 2: Apolipoprotein A-I



- Molecule 2: Apolipoprotein A-I



4.2.7 Score per residue for model 7

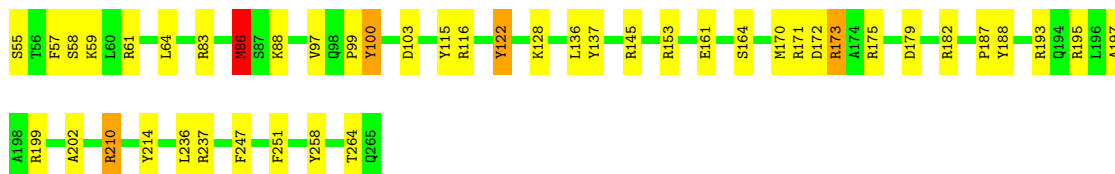
- Molecule 1: Matrix metalloproteinase-14





- Molecule 2: Apolipoprotein A-I

Chain B: 79% 19%



- Molecule 2: Apolipoprotein A-I

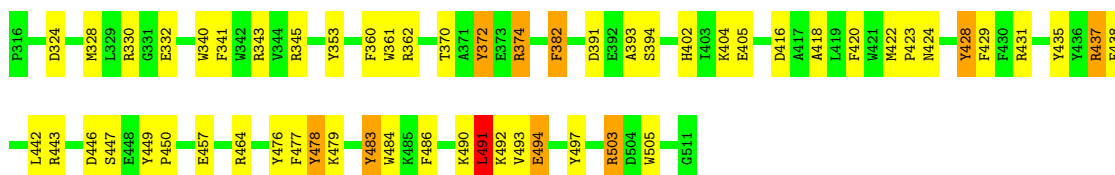
Chain C: 80% 19%



4.2.8 Score per residue for model 8

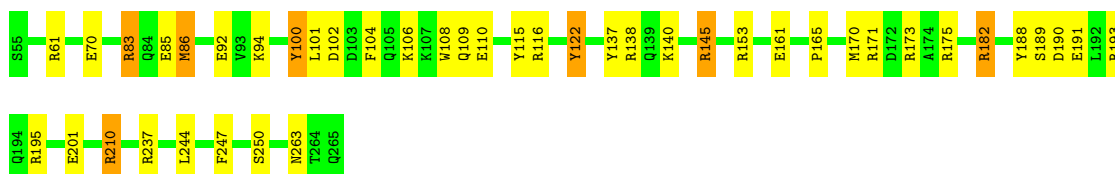
- Molecule 1: Matrix metalloproteinase-14

Chain A: 71% 24% 5%



- Molecule 2: Apolipoprotein A-I

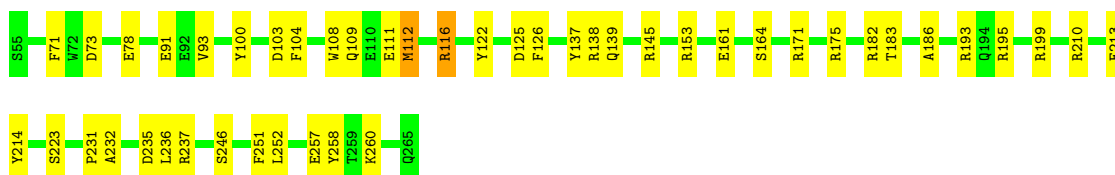
Chain B: 80% 17%



- Molecule 2: Apolipoprotein A-I

Chain C: 78% 21%

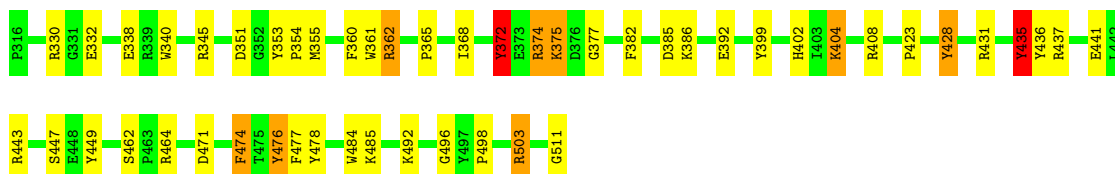




4.2.9 Score per residue for model 9 (medoid)

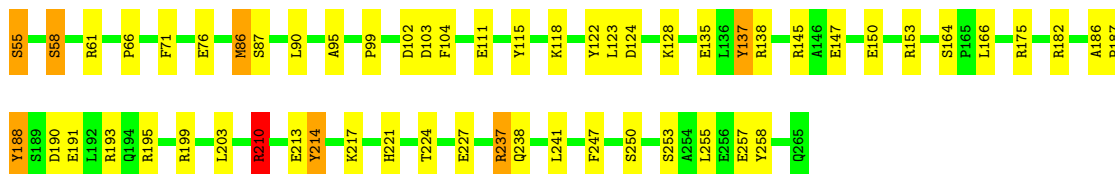
- Molecule 1: Matrix metalloproteinase-14

Chain A: 74% 20%



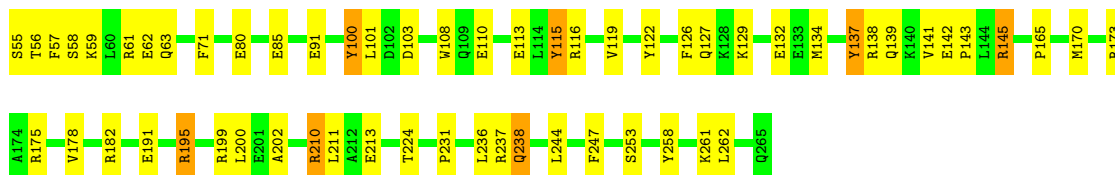
- Molecule 2: Apolipoprotein A-I

Chain B: 73% 23%



- Molecule 2: Apolipoprotein A-I

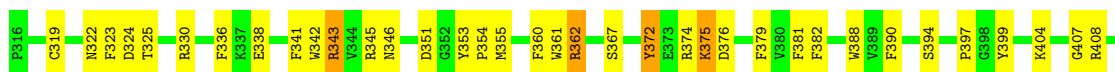
Chain C: 72% 25%



4.2.10 Score per residue for model 10

- Molecule 1: Matrix metalloproteinase-14

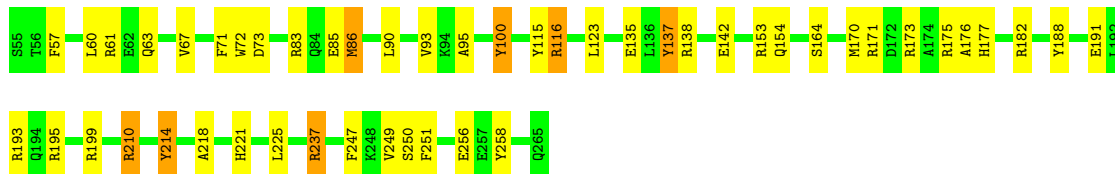
Chain A: 65% 32%





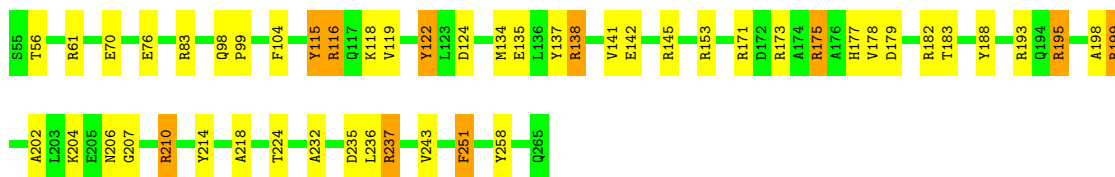
- Molecule 2: Apolipoprotein A-I

Chain B: 77% 20%



- Molecule 2: Apolipoprotein A-I

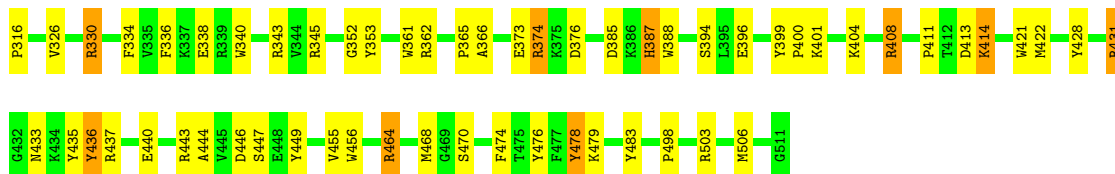
Chain C: 76% 19% 5%



4.2.11 Score per residue for model 11

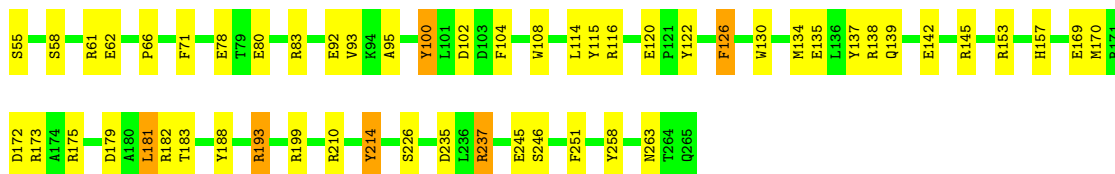
- Molecule 1: Matrix metalloproteinase-14

Chain A: 70% 25% 5%



- Molecule 2: Apolipoprotein A-I

Chain B: 74% 23%

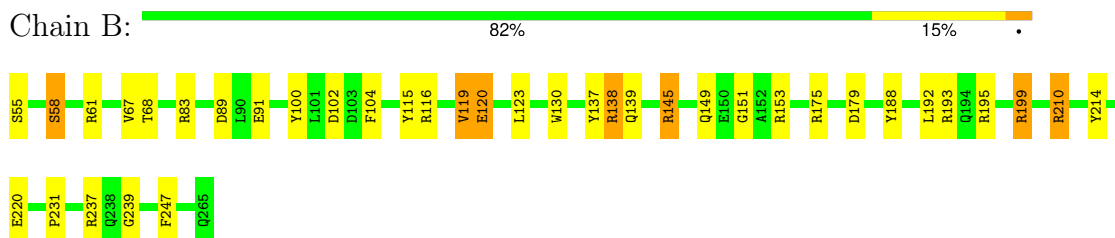


- Molecule 2: Apolipoprotein A-I

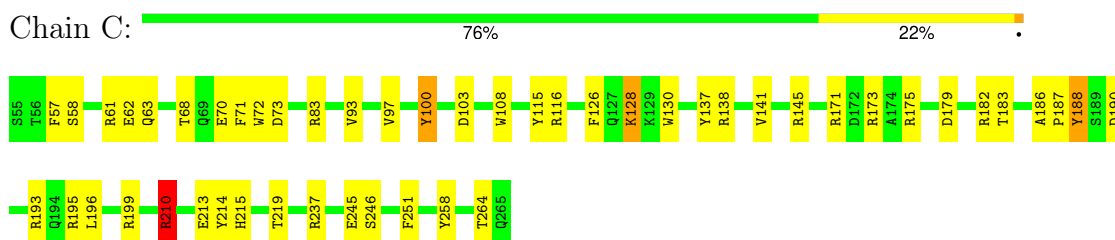
Chain C: 75% 20%



- Molecule 2: Apolipoprotein A-I

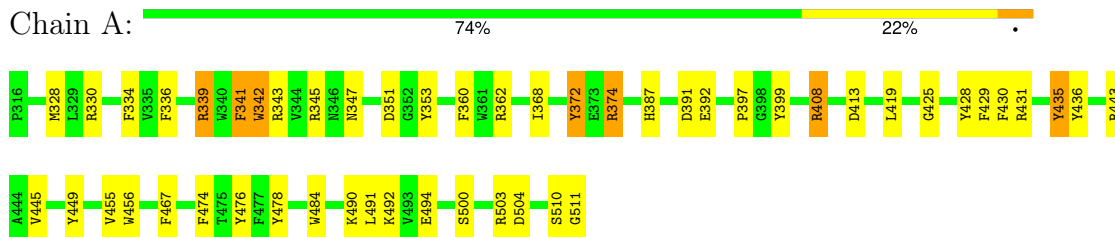


- Molecule 2: Apolipoprotein A-I

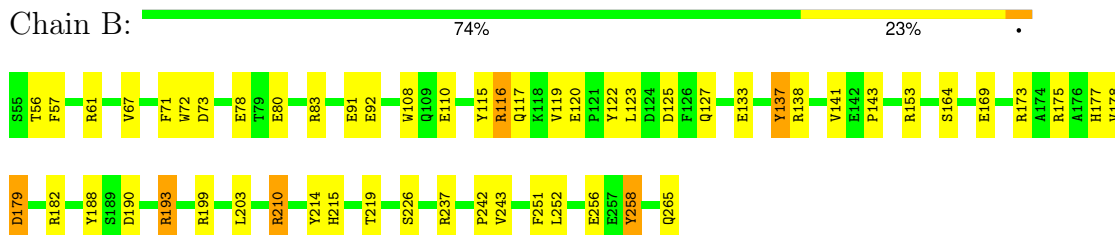


4.2.14 Score per residue for model 14

- Molecule 1: Matrix metalloproteinase-14

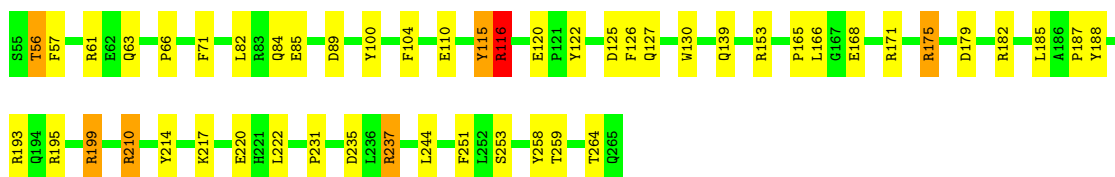


- Molecule 2: Apolipoprotein A-I



- Molecule 2: Apolipoprotein A-I





4.2.15 Score per residue for model 15

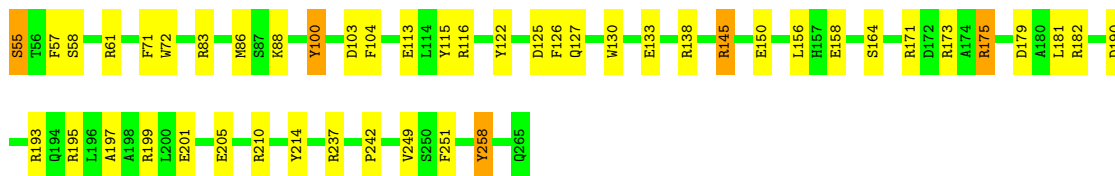
- Molecule 1: Matrix metalloproteinase-14

Chain A: 65% 28% 5%



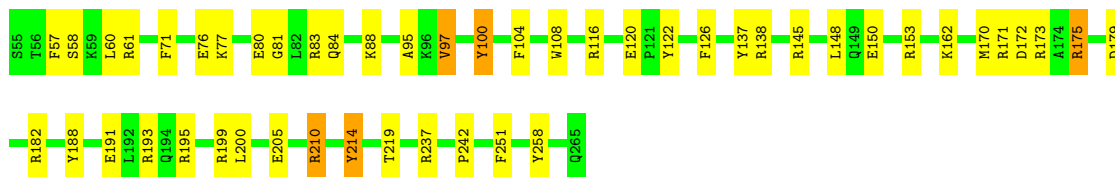
- Molecule 2: Apolipoprotein A-I

Chain B: 78% 20%



- Molecule 2: Apolipoprotein A-I

Chain C: 77% 21%



5 Refinement protocol and experimental data overview

The models were refined using the following method: *molecular dynamics*.

Of the 500 calculated structures, 15 were deposited, based on the following criterion: *structures with the lowest energy*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
HADDOCK	structure calculation	HADDOCK2.1
NAMD	structure calculation	NAMD2.1 with CUDA GPU processing
NAMD	refinement	NAMD2.1 with CUDA GPU processing

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	324
Number of shifts mapped to atoms	324
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	4%

6 Model quality i

6.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: NA, PX4, CL

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 (average) 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	1.72±0.03	14±4/1696 (0.8± 0.2%)	2.13±0.05	59±5/2286 (2.6± 0.2%)
2	B	1.67±0.03	11±4/1784 (0.6± 0.2%)	2.08±0.08	50±6/2394 (2.1± 0.2%)
2	C	1.67±0.04	11±3/1784 (0.6± 0.2%)	2.08±0.05	50±7/2394 (2.1± 0.3%)
All	All	1.68	534/78960 (0.7%)	2.10	2377/106110 (2.2%)

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	Planarity
1	A	0.0±0.0	8.5±2.2
2	B	0.0±0.0	6.5±1.3
2	C	0.0±0.0	5.7±2.4
All	All	0	310

All unique bond outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	C	100	TYR	CB-CG	9.02	1.65	1.51	9	1
1	A	428	TYR	CE1-CZ	9.01	1.50	1.38	2	3
1	A	372	TYR	CE1-CZ	8.91	1.50	1.38	6	2
1	A	435	TYR	CG-CD2	8.43	1.50	1.39	13	3
1	A	421	TRP	CD2-CE2	8.36	1.51	1.41	7	1
1	A	353	TYR	CG-CD1	8.20	1.49	1.39	6	1
1	A	470	SER	CA-CB	8.06	1.65	1.52	3	3
2	C	58	SER	CA-CB	8.03	1.65	1.52	13	2
2	B	122	TYR	CG-CD1	8.02	1.49	1.39	5	2
2	B	256	GLU	CD-OE2	7.99	1.34	1.25	14	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	C	223	SER	CA-CB	7.98	1.65	1.52	11	3
2	C	253	SER	CA-CB	7.85	1.64	1.52	9	3
2	B	164	SER	CA-CB	7.82	1.64	1.52	9	2
2	B	169	GLU	CD-OE2	7.78	1.34	1.25	14	1
1	A	421	TRP	NE1-CE2	-7.76	1.27	1.37	1	1
1	A	511	GLY	CA-C	7.71	1.64	1.51	12	3
1	A	342	TRP	NE1-CE2	-7.61	1.27	1.37	3	2
2	B	258	TYR	CE2-CZ	7.58	1.48	1.38	3	2
2	B	137	TYR	CB-CG	-7.56	1.40	1.51	11	1
1	A	436	TYR	CE1-CZ	7.55	1.48	1.38	6	2
2	B	55	SER	CA-CB	7.53	1.64	1.52	15	3
2	C	258	TYR	CG-CD1	7.52	1.49	1.39	1	4
2	B	226	SER	CA-CB	7.52	1.64	1.52	11	2
1	A	353	TYR	CG-CD2	7.46	1.48	1.39	8	1
2	B	85	GLU	CD-OE2	7.42	1.33	1.25	10	2
1	A	458	GLY	N-CA	7.40	1.57	1.46	6	1
2	B	78	GLU	CD-OE2	7.38	1.33	1.25	14	1
2	B	115	TYR	CZ-OH	7.36	1.50	1.37	11	1
2	C	100	TYR	CE2-CZ	7.33	1.48	1.38	14	1
2	B	115	TYR	CD2-CE2	7.27	1.50	1.39	8	1
2	C	165	PRO	N-CD	-7.16	1.37	1.47	9	1
2	C	132	GLU	CB-CG	7.14	1.65	1.52	4	2
2	B	153	ARG	CA-CB	7.09	1.69	1.53	8	1
2	B	57	PHE	CG-CD1	7.08	1.49	1.38	7	1
1	A	361	TRP	CG-CD1	-6.95	1.27	1.36	15	2
1	A	394	SER	CB-OG	6.94	1.51	1.42	13	1
1	A	435	TYR	CD1-CE1	6.92	1.49	1.39	8	1
1	A	503	ARG	CZ-NH2	-6.92	1.24	1.33	11	1
2	B	130	TRP	CD2-CE2	6.91	1.49	1.41	15	1
2	C	135	GLU	CG-CD	-6.90	1.41	1.51	7	1
2	C	214	TYR	CZ-OH	6.89	1.49	1.37	6	2
1	A	467	PHE	CG-CD2	6.83	1.49	1.38	10	1
1	A	367	SER	CA-CB	6.82	1.63	1.52	1	1
2	B	137	TYR	CE1-CZ	6.79	1.47	1.38	13	2
2	B	93	VAL	CB-CG2	6.79	1.67	1.52	4	1
2	C	130	TRP	NE1-CE2	-6.79	1.28	1.37	4	1
2	B	109	GLN	CA-CB	6.75	1.68	1.53	4	1
2	B	115	TYR	CB-CG	-6.75	1.41	1.51	3	1
2	B	92	GLU	CG-CD	6.74	1.62	1.51	6	1
2	B	161	GLU	CB-CG	6.72	1.65	1.52	6	1
2	C	137	TYR	CZ-OH	6.72	1.49	1.37	12	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	449	TYR	CE2-CZ	6.71	1.47	1.38	3	2
2	C	137	TYR	CE1-CZ	6.71	1.47	1.38	2	1
2	B	258	TYR	CE1-CZ	6.70	1.47	1.38	2	2
2	B	214	TYR	CG-CD2	6.68	1.47	1.39	12	1
2	B	111	GLU	CB-CG	6.67	1.64	1.52	9	1
2	B	118	LYS	N-CA	-6.64	1.33	1.46	9	1
2	C	76	GLU	CB-CG	6.64	1.64	1.52	15	1
2	C	57	PHE	CG-CD2	6.63	1.48	1.38	11	1
1	A	372	TYR	CG-CD2	6.63	1.47	1.39	2	1
2	C	122	TYR	CE2-CZ	6.61	1.47	1.38	9	1
1	A	484	TRP	CD2-CE3	6.61	1.50	1.40	10	1
1	A	466	SER	CA-CB	6.58	1.62	1.52	5	2
2	C	81	GLY	CA-C	-6.57	1.41	1.51	15	1
2	C	213	GLU	CD-OE2	6.55	1.32	1.25	3	1
2	B	150	GLU	CB-CG	6.55	1.64	1.52	5	3
2	C	257	GLU	CB-CG	6.54	1.64	1.52	1	1
2	B	247	PHE	CG-CD2	6.51	1.48	1.38	13	1
1	A	436	TYR	CD1-CE1	6.50	1.49	1.39	4	1
2	C	191	GLU	CB-CG	6.50	1.64	1.52	15	2
2	C	122	TYR	CE1-CZ	6.49	1.47	1.38	15	1
2	B	223	SER	CB-OG	-6.48	1.33	1.42	3	1
1	A	484	TRP	CG-CD1	6.44	1.45	1.36	8	1
1	A	366	ALA	CA-CB	6.43	1.66	1.52	11	1
2	B	122	TYR	CG-CD2	6.43	1.47	1.39	11	1
2	B	250	SER	CA-CB	6.43	1.62	1.52	3	3
2	C	182	ARG	CZ-NH1	-6.43	1.24	1.33	12	1
1	A	394	SER	CA-CB	6.42	1.62	1.52	8	4
2	B	120	GLU	CD-OE2	6.42	1.32	1.25	12	1
2	B	122	TYR	CZ-OH	6.42	1.48	1.37	1	2
2	C	191	GLU	CG-CD	-6.42	1.42	1.51	15	1
2	B	169	GLU	CB-CG	6.42	1.64	1.52	1	1
2	C	140	LYS	CA-CB	6.41	1.68	1.53	6	1
2	B	135	GLU	CB-CG	6.40	1.64	1.52	4	2
1	A	340	TRP	NE1-CE2	-6.40	1.29	1.37	3	1
2	C	62	GLU	CB-CG	6.39	1.64	1.52	9	2
2	C	108	TRP	CG-CD1	6.39	1.45	1.36	15	1
2	C	55	SER	CA-CB	6.39	1.62	1.52	6	4
1	A	476	TYR	CZ-OH	6.38	1.48	1.37	7	2
2	C	236	LEU	CA-CB	6.35	1.68	1.53	8	1
1	A	435	TYR	CB-CG	6.34	1.61	1.51	2	2
2	B	92	GLU	CD-OE1	6.34	1.32	1.25	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	C	207	GLY	C-N	6.32	1.44	1.33	10	1
2	C	187	PRO	N-CD	6.32	1.56	1.47	6	3
1	A	478	TYR	CE1-CZ	6.31	1.46	1.38	15	1
2	B	250	SER	CB-OG	6.30	1.50	1.42	1	1
1	A	445	VAL	CA-CB	-6.28	1.41	1.54	3	1
1	A	345	ARG	CD-NE	6.24	1.57	1.46	7	2
2	B	214	TYR	CB-CG	6.24	1.61	1.51	14	1
2	C	70	GLU	CD-OE1	6.23	1.32	1.25	11	1
2	B	247	PHE	CD2-CE2	6.22	1.51	1.39	8	1
1	A	486	PHE	CE2-CZ	6.20	1.49	1.37	1	1
1	A	361	TRP	CD1-NE1	-6.19	1.27	1.38	3	1
1	A	373	GLU	CD-OE2	6.19	1.32	1.25	11	1
2	B	132	GLU	CG-CD	6.18	1.61	1.51	5	1
1	A	420	PHE	CG-CD1	6.18	1.48	1.38	4	3
1	A	440	GLU	CG-CD	-6.18	1.42	1.51	7	1
1	A	447	SER	CA-CB	6.18	1.62	1.52	11	2
2	B	227	GLU	CD-OE2	6.18	1.32	1.25	9	1
1	A	500	SER	CA-CB	6.18	1.62	1.52	14	3
2	C	258	TYR	CE1-CZ	6.17	1.46	1.38	5	3
2	B	87	SER	CA-CB	6.14	1.62	1.52	12	1
2	C	111	GLU	CB-CG	6.14	1.63	1.52	7	1
1	A	477	PHE	CG-CD1	6.14	1.48	1.38	13	1
2	C	66	PRO	CA-CB	-6.14	1.41	1.53	14	1
1	A	387	HIS	CB-CG	6.12	1.61	1.50	5	2
2	C	252	LEU	CA-CB	6.11	1.67	1.53	8	1
2	C	245	GLU	CB-CG	6.11	1.63	1.52	13	1
2	B	253	SER	CA-CB	6.10	1.62	1.52	2	1
2	C	100	TYR	CG-CD2	6.10	1.47	1.39	13	1
1	A	483	TYR	CB-CG	6.10	1.60	1.51	10	1
2	B	177	HIS	CB-CG	6.08	1.60	1.50	14	1
2	B	99	PRO	N-CD	-6.08	1.39	1.47	7	1
1	A	336	PHE	CE2-CZ	6.08	1.48	1.37	10	1
2	B	188	TYR	CG-CD2	6.07	1.47	1.39	2	1
2	B	164	SER	CB-OG	6.06	1.50	1.42	15	1
1	A	462	SER	CA-CB	6.06	1.62	1.52	13	1
2	C	55	SER	N-CA	6.05	1.58	1.46	3	2
2	C	161	GLU	CG-CD	-6.05	1.42	1.51	8	1
1	A	358	GLY	N-CA	-6.05	1.36	1.46	3	1
1	A	423	PRO	N-CD	-6.05	1.39	1.47	8	2
2	B	130	TRP	CG-CD1	6.04	1.45	1.36	5	1
1	A	486	PHE	CG-CD1	6.04	1.47	1.38	13	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	C	115	TYR	CE1-CZ	6.03	1.46	1.38	11	1
2	C	85	GLU	CB-CG	6.03	1.63	1.52	14	1
1	A	384	GLY	CA-C	6.01	1.61	1.51	3	2
2	B	193	ARG	CZ-NH2	-6.00	1.25	1.33	8	2
2	C	115	TYR	CB-CG	5.99	1.60	1.51	14	2
1	A	330	ARG	CD-NE	5.98	1.56	1.46	8	1
2	C	171	ARG	CD-NE	5.97	1.56	1.46	7	1
2	B	151	GLY	CA-C	-5.97	1.42	1.51	1	1
1	A	396	GLU	CB-CG	5.96	1.63	1.52	11	2
2	C	137	TYR	CG-CD1	5.96	1.46	1.39	9	1
2	B	171	ARG	CD-NE	5.95	1.56	1.46	4	1
1	A	421	TRP	CG-CD1	5.95	1.45	1.36	6	1
2	B	205	GLU	CD-OE2	5.95	1.32	1.25	15	1
2	B	260	LYS	N-CA	-5.94	1.34	1.46	1	1
1	A	353	TYR	CE1-CZ	5.93	1.46	1.38	3	1
2	B	100	TYR	CG-CD1	5.92	1.46	1.39	1	1
1	A	390	PHE	CG-CD2	5.92	1.47	1.38	3	1
2	B	133	GLU	CD-OE1	-5.91	1.19	1.25	14	1
2	C	210	ARG	CD-NE	5.91	1.56	1.46	11	1
2	C	133	GLU	CB-CG	5.90	1.63	1.52	1	1
1	A	449	TYR	CZ-OH	5.89	1.47	1.37	6	1
1	A	388	TRP	CD2-CE2	5.88	1.48	1.41	4	1
2	C	258	TYR	CE2-CZ	5.88	1.46	1.38	10	1
1	A	476	TYR	CG-CD2	5.88	1.46	1.39	5	1
2	C	149	GLN	CG-CD	5.88	1.64	1.51	6	1
1	A	485	LYS	CA-CB	5.88	1.66	1.53	15	1
2	B	150	GLU	CD-OE1	5.88	1.32	1.25	15	1
1	A	428	TYR	CE2-CZ	5.87	1.46	1.38	14	2
1	A	505	TRP	NE1-CE2	-5.87	1.29	1.37	8	1
2	B	110	GLU	CD-OE2	5.86	1.32	1.25	8	1
2	C	258	TYR	CB-CG	5.86	1.60	1.51	7	1
2	B	80	GLU	CG-CD	5.85	1.60	1.51	4	1
1	A	399	TYR	CE1-CZ	5.84	1.46	1.38	12	2
2	B	221	HIS	CB-CG	5.84	1.60	1.50	10	1
2	B	237	ARG	CD-NE	5.84	1.56	1.46	11	2
1	A	441	GLU	CD-OE2	5.83	1.32	1.25	5	2
1	A	338	GLU	CD-OE2	5.83	1.32	1.25	9	3
2	B	100	TYR	CB-CG	-5.83	1.42	1.51	7	1
2	B	115	TYR	CG-CD2	5.83	1.46	1.39	13	2
2	C	214	TYR	CB-CG	5.83	1.60	1.51	13	1
1	A	476	TYR	CE2-CZ	5.83	1.46	1.38	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	B	187	PRO	N-CD	-5.82	1.39	1.47	1	1
1	A	484	TRP	CD2-CE2	5.81	1.48	1.41	15	1
2	C	138	ARG	CD-NE	5.80	1.56	1.46	1	1
2	B	137	TYR	CG-CD2	5.80	1.46	1.39	2	1
2	B	62	GLU	CD-OE1	5.79	1.32	1.25	1	1
1	A	327	ALA	CA-C	-5.79	1.37	1.52	5	1
2	B	161	GLU	CG-CD	5.79	1.60	1.51	8	1
2	C	98	GLN	CA-CB	5.79	1.66	1.53	11	1
1	A	478	TYR	CE2-CZ	5.78	1.46	1.38	2	1
2	C	187	PRO	CA-C	-5.78	1.41	1.52	5	1
2	B	92	GLU	CD-OE2	5.78	1.32	1.25	8	2
1	A	505	TRP	CZ2-CH2	5.77	1.48	1.37	4	1
2	C	125	ASP	CA-CB	5.76	1.66	1.53	11	1
2	B	193	ARG	CD-NE	5.76	1.56	1.46	11	2
2	B	237	ARG	CA-CB	5.75	1.66	1.53	1	1
2	B	71	PHE	CG-CD1	-5.74	1.30	1.38	11	1
2	C	158	GLU	CD-OE1	5.74	1.31	1.25	7	1
1	A	372	TYR	CD1-CE1	5.72	1.48	1.39	9	2
2	C	158	GLU	CG-CD	-5.71	1.43	1.51	2	1
1	A	429	PHE	CG-CD2	5.71	1.47	1.38	5	1
1	A	476	TYR	C-N	5.71	1.47	1.34	6	1
2	C	122	TYR	CZ-OH	5.71	1.47	1.37	8	1
2	B	258	TYR	CD2-CE2	5.69	1.47	1.39	7	1
1	A	343	ARG	CZ-NH1	-5.69	1.25	1.33	15	1
2	C	214	TYR	CG-CD1	5.68	1.46	1.39	8	1
2	B	80	GLU	CB-CG	5.68	1.62	1.52	11	2
1	A	483	TYR	CE1-CZ	5.67	1.46	1.38	4	1
2	C	174	ALA	CA-CB	5.66	1.64	1.52	3	1
1	A	447	SER	CB-OG	5.66	1.49	1.42	8	1
2	C	142	GLU	CB-CG	5.65	1.62	1.52	10	2
2	B	78	GLU	CB-CG	5.65	1.62	1.52	11	1
2	C	115	TYR	CE2-CZ	5.64	1.45	1.38	3	1
1	A	456	TRP	CZ2-CH2	5.64	1.48	1.37	14	1
2	B	91	GLU	CD-OE2	5.64	1.31	1.25	13	1
1	A	464	ARG	CZ-NH1	-5.63	1.25	1.33	6	1
1	A	336	PHE	CE1-CZ	5.62	1.48	1.37	4	1
2	B	147	GLU	CA-CB	5.62	1.66	1.53	9	1
2	C	91	GLU	CB-CG	5.62	1.62	1.52	4	2
1	A	474	PHE	CG-CD2	5.61	1.47	1.38	9	1
1	A	381	PHE	CG-CD1	5.60	1.47	1.38	5	2
1	A	365	PRO	N-CD	-5.59	1.40	1.47	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	C	70	GLU	CG-CD	-5.59	1.43	1.51	13	1
1	A	498	PRO	CA-C	-5.59	1.41	1.52	11	1
1	A	435	TYR	CG-CD1	5.59	1.46	1.39	5	1
2	B	135	GLU	CD-OE1	5.58	1.31	1.25	9	1
1	A	496	GLY	N-CA	5.58	1.54	1.46	9	1
2	B	145	ARG	CZ-NH1	-5.58	1.25	1.33	8	1
2	C	180	ALA	CA-CB	5.57	1.64	1.52	4	1
1	A	405	GLU	CB-CG	5.57	1.62	1.52	8	1
1	A	472	GLU	CB-CG	5.56	1.62	1.52	2	1
2	B	265	GLN	C-OXT	5.56	1.33	1.23	14	1
2	B	104	PHE	CG-CD2	5.56	1.47	1.38	3	1
1	A	358	GLY	CA-C	-5.55	1.43	1.51	2	1
2	B	120	GLU	CB-CG	5.55	1.62	1.52	3	1
2	B	189	SER	CA-CB	5.55	1.61	1.52	8	1
1	A	511	GLY	N-CA	-5.54	1.37	1.46	7	1
2	C	130	TRP	CA-CB	5.54	1.66	1.53	6	1
2	B	122	TYR	CB-CG	5.54	1.59	1.51	14	1
1	A	388	TRP	CB-CG	5.54	1.60	1.50	11	1
2	B	130	TRP	CG-CD2	5.53	1.53	1.43	1	1
1	A	382	PHE	CA-CB	5.53	1.66	1.53	12	1
2	B	258	TYR	CG-CD2	5.53	1.46	1.39	1	2
2	C	120	GLU	CB-CG	5.53	1.62	1.52	15	1
2	B	76	GLU	CB-CG	5.52	1.62	1.52	4	1
1	A	379	PHE	CG-CD2	5.52	1.47	1.38	1	1
2	B	91	GLU	CD-OE1	5.52	1.31	1.25	1	1
2	C	199	ARG	CZ-NH2	-5.51	1.25	1.33	14	1
1	A	474	PHE	CB-CG	-5.51	1.42	1.51	5	1
2	B	139	GLN	CA-CB	5.50	1.66	1.53	13	1
1	A	339	ARG	CD-NE	5.49	1.55	1.46	7	2
2	C	133	GLU	CD-OE2	5.49	1.31	1.25	2	1
2	B	178	VAL	CB-CG1	5.48	1.64	1.52	3	1
2	C	188	TYR	CG-CD2	5.48	1.46	1.39	6	1
1	A	340	TRP	CD1-NE1	-5.47	1.28	1.38	2	1
1	A	323	PHE	CG-CD2	5.47	1.47	1.38	12	1
1	A	352	GLY	CA-C	-5.46	1.43	1.51	11	1
1	A	483	TYR	CD2-CE2	5.46	1.47	1.39	5	1
2	C	142	GLU	CG-CD	5.46	1.60	1.51	1	1
1	A	494	GLU	CB-CG	5.46	1.62	1.52	7	1
2	C	130	TRP	CZ2-CH2	5.46	1.47	1.37	3	1
2	C	80	GLU	CB-CG	5.45	1.62	1.52	9	1
2	C	126	PHE	CA-CB	5.45	1.66	1.53	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	405	GLU	CD-OE1	5.45	1.31	1.25	2	1
2	C	108	TRP	NE1-CE2	-5.44	1.30	1.37	4	1
2	C	81	GLY	N-CA	-5.44	1.37	1.46	6	1
2	B	120	GLU	CD-OE1	5.44	1.31	1.25	13	1
2	B	113	GLU	CB-CG	5.42	1.62	1.52	3	1
1	A	428	TYR	CG-CD2	5.42	1.46	1.39	11	1
1	A	373	GLU	CB-CG	5.42	1.62	1.52	1	1
1	A	464	ARG	CZ-NH2	-5.42	1.26	1.33	7	1
2	C	100	TYR	CZ-OH	5.42	1.47	1.37	6	1
2	C	238	GLN	C-N	5.41	1.42	1.33	4	1
2	B	184	HIS	CB-CG	5.41	1.59	1.50	3	1
2	B	153	ARG	CD-NE	5.41	1.55	1.46	10	2
2	B	77	LYS	CA-CB	5.41	1.65	1.53	5	1
2	C	122	TYR	CG-CD2	5.40	1.46	1.39	6	2
2	B	100	TYR	CA-CB	5.40	1.65	1.53	7	1
2	B	188	TYR	CD1-CE1	5.40	1.47	1.39	9	1
1	A	497	TYR	CG-CD1	5.39	1.46	1.39	6	2
1	A	397	PRO	CA-CB	5.39	1.64	1.53	10	1
2	C	130	TRP	CD2-CE3	5.39	1.48	1.40	14	1
1	A	407	GLY	N-CA	5.39	1.54	1.46	10	1
2	C	108	TRP	CD2-CE2	5.39	1.47	1.41	13	1
1	A	438	PHE	CE1-CZ	5.39	1.47	1.37	7	1
2	C	145	ARG	CB-CG	5.38	1.67	1.52	5	1
2	B	71	PHE	CA-CB	5.38	1.65	1.53	2	1
2	B	62	GLU	CG-CD	5.38	1.60	1.51	6	1
1	A	457	GLU	CD-OE2	5.38	1.31	1.25	8	1
1	A	472	GLU	CD-OE1	-5.38	1.19	1.25	7	1
2	C	72	TRP	CD2-CE2	-5.37	1.34	1.41	12	1
2	C	236	LEU	CA-C	5.36	1.66	1.52	2	1
2	B	213	GLU	CD-OE2	5.36	1.31	1.25	9	1
1	A	437	ARG	CD-NE	5.36	1.55	1.46	10	1
1	A	438	PHE	CG-CD1	5.36	1.46	1.38	1	1
1	A	437	ARG	CZ-NH1	-5.36	1.26	1.33	1	1
1	A	476	TYR	CE1-CZ	-5.36	1.31	1.38	8	1
2	C	220	GLU	CB-CG	5.36	1.62	1.52	11	1
2	C	227	GLU	CD-OE1	5.35	1.31	1.25	1	1
1	A	449	TYR	CG-CD2	5.34	1.46	1.39	7	1
2	C	145	ARG	CD-NE	5.34	1.55	1.46	5	1
2	C	223	SER	CB-OG	5.34	1.49	1.42	4	1
2	C	247	PHE	CG-CD2	5.34	1.46	1.38	4	1
2	C	150	GLU	CD-OE2	5.34	1.31	1.25	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	B	201	GLU	CG-CD	5.33	1.59	1.51	3	1
1	A	360	PHE	CG-CD1	5.33	1.46	1.38	10	1
1	A	404	LYS	CA-C	5.33	1.66	1.52	9	1
2	B	72	TRP	NE1-CE2	-5.33	1.30	1.37	10	1
2	C	108	TRP	CD2-CE3	5.32	1.48	1.40	9	1
2	B	134	MET	N-CA	-5.32	1.35	1.46	6	1
2	B	127	GLN	CG-CD	5.32	1.63	1.51	2	1
2	B	137	TYR	CE2-CZ	5.32	1.45	1.38	9	1
2	B	197	ALA	N-CA	5.32	1.56	1.46	15	1
2	C	99	PRO	N-CD	-5.31	1.40	1.47	10	2
2	C	164	SER	N-CA	-5.31	1.35	1.46	11	1
2	B	85	GLU	CD-OE1	-5.31	1.19	1.25	1	1
2	C	83	ARG	CZ-NH2	-5.29	1.26	1.33	3	1
1	A	406	LEU	C-N	5.29	1.42	1.33	3	2
1	A	399	TYR	CG-CD2	5.28	1.46	1.39	10	1
1	A	386	LYS	CA-CB	5.28	1.65	1.53	4	1
2	C	100	TYR	CE1-CZ	5.28	1.45	1.38	12	1
2	B	213	GLU	CB-CG	5.27	1.62	1.52	4	1
1	A	388	TRP	CD2-CE3	5.27	1.48	1.40	10	1
1	A	340	TRP	CD2-CE2	5.27	1.47	1.41	4	1
2	C	161	GLU	CB-CG	5.26	1.62	1.52	8	1
2	B	135	GLU	CG-CD	5.26	1.59	1.51	10	1
2	B	247	PHE	CE2-CZ	5.26	1.47	1.37	3	1
1	A	345	ARG	CZ-NH1	-5.26	1.26	1.33	7	1
1	A	408	ARG	CD-NE	5.26	1.55	1.46	10	1
1	A	340	TRP	CG-CD1	5.26	1.44	1.36	8	1
2	C	135	GLU	CA-CB	-5.26	1.42	1.53	4	1
2	C	91	GLU	CG-CD	-5.26	1.44	1.51	8	1
2	B	137	TYR	CZ-OH	5.26	1.46	1.37	9	1
2	B	129	LYS	N-CA	-5.25	1.35	1.46	1	1
1	A	377	GLY	CA-C	-5.25	1.43	1.51	9	1
1	A	500	SER	CB-OG	5.25	1.49	1.42	14	2
1	A	483	TYR	CD1-CE1	5.25	1.47	1.39	13	1
2	C	171	ARG	CZ-NH2	-5.24	1.26	1.33	6	1
2	B	151	GLY	N-CA	5.24	1.53	1.46	13	1
1	A	510	SER	CA-CB	5.24	1.60	1.52	13	1
2	B	61	ARG	CD-NE	5.24	1.55	1.46	9	1
1	A	323	PHE	CA-CB	5.23	1.65	1.53	3	1
2	B	258	TYR	CZ-OH	5.23	1.46	1.37	11	1
1	A	360	PHE	CG-CD2	5.23	1.46	1.38	1	1
2	C	138	ARG	NE-CZ	5.23	1.39	1.33	1	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	C	182	ARG	CZ-NH2	-5.23	1.26	1.33	6	1
1	A	388	TRP	CE2-CZ2	5.23	1.48	1.39	10	1
2	B	157	HIS	CA-CB	5.23	1.65	1.53	12	1
2	B	258	TYR	CB-CG	-5.23	1.43	1.51	15	2
2	B	165	PRO	N-CD	-5.22	1.40	1.47	8	1
2	B	145	ARG	CG-CD	5.22	1.65	1.51	9	1
2	C	213	GLU	CB-CG	5.22	1.62	1.52	13	1
2	C	191	GLU	CD-OE2	5.22	1.31	1.25	15	1
2	C	169	GLU	CA-CB	-5.22	1.42	1.53	3	1
2	C	188	TYR	CA-CB	5.22	1.65	1.53	12	1
2	C	76	GLU	CD-OE1	5.21	1.31	1.25	11	1
2	B	69	GLN	N-CA	-5.21	1.35	1.46	12	1
2	B	145	ARG	CD-NE	5.21	1.55	1.46	13	1
1	A	372	TYR	CE2-CZ	5.20	1.45	1.38	5	1
1	A	431	ARG	N-CA	-5.20	1.35	1.46	5	1
2	B	122	TYR	CA-CB	5.20	1.65	1.53	3	1
1	A	436	TYR	CB-CG	5.20	1.59	1.51	9	1
2	C	193	ARG	CD-NE	5.20	1.55	1.46	12	1
1	A	372	TYR	N-CA	5.19	1.56	1.46	8	1
1	A	349	VAL	CB-CG2	5.19	1.63	1.52	4	1
2	C	121	PRO	N-CA	5.19	1.56	1.47	2	1
2	C	145	ARG	CZ-NH1	-5.19	1.26	1.33	9	1
1	A	432	GLY	CA-C	5.18	1.60	1.51	6	1
1	A	334	PHE	CG-CD1	5.18	1.46	1.38	11	1
2	B	130	TRP	NE1-CE2	5.18	1.44	1.37	6	1
2	B	201	GLU	CD-OE1	5.17	1.31	1.25	2	1
1	A	360	PHE	CE1-CZ	5.17	1.47	1.37	3	1
1	A	435	TYR	CE1-CZ	5.17	1.45	1.38	13	1
1	A	338	GLU	CD-OE1	-5.17	1.20	1.25	11	1
1	A	428	TYR	CG-CD1	5.17	1.45	1.39	12	1
2	B	173	ARG	CZ-NH1	-5.17	1.26	1.33	11	1
2	B	238	GLN	C-N	5.16	1.42	1.33	9	1
2	C	237	ARG	CZ-NH2	-5.16	1.26	1.33	15	1
1	A	431	ARG	CD-NE	5.15	1.55	1.46	5	1
1	A	425	GLY	CA-C	-5.15	1.43	1.51	14	1
1	A	372	TYR	CG-CD1	5.15	1.45	1.39	13	2
1	A	342	TRP	CD2-CE2	-5.15	1.35	1.41	13	1
1	A	505	TRP	CE2-CZ2	-5.15	1.31	1.39	6	1
2	C	150	GLU	C-N	5.14	1.42	1.33	15	1
2	C	119	VAL	CB-CG1	5.14	1.63	1.52	1	1
2	C	145	ARG	CZ-NH2	-5.14	1.26	1.33	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	B	246	SER	CB-OG	5.13	1.49	1.42	11	1
2	C	147	GLU	CB-CG	5.13	1.61	1.52	11	1
2	B	70	GLU	CB-CG	5.13	1.61	1.52	8	1
2	C	137	TYR	CE2-CZ	5.13	1.45	1.38	9	1
2	C	87	SER	CA-CB	-5.13	1.45	1.52	11	2
2	B	245	GLU	CD-OE1	5.13	1.31	1.25	2	1
2	B	171	ARG	CZ-NH2	-5.13	1.26	1.33	5	1
2	C	168	GLU	CD-OE1	5.13	1.31	1.25	14	1
2	B	153	ARG	CZ-NH2	-5.12	1.26	1.33	2	1
2	C	110	GLU	CA-CB	5.12	1.65	1.53	9	1
2	C	234	GLU	CD-OE1	5.12	1.31	1.25	2	1
1	A	436	TYR	CG-CD2	5.12	1.45	1.39	10	1
2	B	231	PRO	N-CA	5.12	1.55	1.47	13	1
2	C	154	GLN	CG-CD	5.11	1.62	1.51	2	1
2	B	220	GLU	CB-CG	5.11	1.61	1.52	13	1
1	A	443	ARG	CD-NE	5.10	1.55	1.46	3	1
1	A	343	ARG	CD-NE	5.10	1.55	1.46	5	1
1	A	332	GLU	CD-OE2	5.10	1.31	1.25	12	1
2	B	150	GLU	CD-OE2	5.09	1.31	1.25	1	1
2	B	57	PHE	CB-CG	5.09	1.60	1.51	12	1
2	B	161	GLU	CD-OE1	-5.09	1.20	1.25	7	1
2	C	120	GLU	CD-OE1	5.09	1.31	1.25	12	1
2	C	127	GLN	N-CA	-5.09	1.36	1.46	14	1
2	C	193	ARG	CZ-NH2	-5.09	1.26	1.33	14	1
1	A	494	GLU	CG-CD	5.08	1.59	1.51	5	1
2	B	258	TYR	CG-CD1	5.08	1.45	1.39	14	1
2	B	58	SER	CA-CB	5.08	1.60	1.52	13	1
2	C	237	ARG	CD-NE	5.08	1.55	1.46	14	1
1	A	450	PRO	N-CD	5.08	1.54	1.47	4	1
2	B	87	SER	CB-OG	5.08	1.48	1.42	9	1
2	C	246	SER	CB-OG	-5.08	1.35	1.42	8	1
1	A	332	GLU	CA-CB	5.07	1.65	1.53	1	1
2	B	103	ASP	CA-CB	5.07	1.65	1.53	3	1
1	A	505	TRP	CD2-CE2	5.07	1.47	1.41	3	1
1	A	430	PHE	CG-CD2	5.07	1.46	1.38	14	1
2	C	100	TYR	CD2-CE2	5.07	1.47	1.39	15	1
1	A	498	PRO	N-CD	-5.07	1.40	1.47	15	1
1	A	420	PHE	CG-CD2	5.06	1.46	1.38	2	1
1	A	497	TYR	CG-CD2	5.06	1.45	1.39	2	1
2	C	104	PHE	CG-CD1	5.06	1.46	1.38	8	1
2	C	137	TYR	CG-CD2	5.06	1.45	1.39	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	C	76	GLU	CD-OE2	5.06	1.31	1.25	10	1
1	A	405	GLU	CD-OE2	5.06	1.31	1.25	15	1
2	B	191	GLU	CB-CG	5.06	1.61	1.52	2	1
1	A	486	PHE	CG-CD2	5.05	1.46	1.38	8	1
1	A	430	PHE	CE1-CZ	5.05	1.47	1.37	10	1
1	A	354	PRO	N-CD	-5.04	1.40	1.47	15	1
1	A	390	PHE	CE1-CZ	5.04	1.47	1.37	2	1
2	C	151	GLY	N-CA	-5.04	1.38	1.46	3	1
2	B	76	GLU	CD-OE2	-5.03	1.20	1.25	4	1
2	C	111	GLU	CG-CD	-5.03	1.44	1.51	8	1
2	C	196	LEU	CB-CG	5.03	1.67	1.52	11	1
2	B	182	ARG	CD-NE	5.02	1.54	1.46	9	1
1	A	319	CYS	CB-SG	5.02	1.90	1.82	10	1
2	B	127	GLN	CA-CB	5.02	1.65	1.53	14	1
2	C	261	LYS	CA-CB	5.02	1.65	1.53	9	1
2	C	213	GLU	CA-CB	5.01	1.65	1.53	8	1
2	B	55	SER	N-CA	5.01	1.56	1.46	5	1
1	A	397	PRO	CA-C	-5.01	1.42	1.52	1	1
1	A	353	TYR	CD2-CE2	5.01	1.46	1.39	7	1
2	C	214	TYR	CA-CB	5.00	1.65	1.53	7	1
2	B	239	GLY	N-CA	5.00	1.53	1.46	6	1

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	193	ARG	NE-CZ-NH2	24.46	132.53	120.30	8	11
2	C	61	ARG	NE-CZ-NH2	23.11	131.86	120.30	11	9
2	C	116	ARG	NE-CZ-NH2	22.39	131.49	120.30	10	9
2	B	199	ARG	NE-CZ-NH2	22.28	131.44	120.30	14	9
2	C	153	ARG	NE-CZ-NH2	22.11	131.35	120.30	12	11
2	B	116	ARG	NE-CZ-NH2	21.07	130.84	120.30	12	9
2	C	83	ARG	NE-CZ-NH2	20.85	130.72	120.30	12	9
2	B	175	ARG	NE-CZ-NH2	20.80	130.70	120.30	13	12
2	B	173	ARG	NE-CZ-NH1	-20.58	110.01	120.30	5	8
2	C	61	ARG	NE-CZ-NH1	-20.44	110.08	120.30	11	5
2	B	195	ARG	NE-CZ-NH2	20.40	130.50	120.30	3	12
2	C	175	ARG	NE-CZ-NH2	19.86	130.23	120.30	2	10
2	B	214	TYR	CB-CG-CD1	19.51	132.71	121.00	11	6
1	A	464	ARG	NE-CZ-NH2	19.51	130.06	120.30	1	10
2	C	195	ARG	NE-CZ-NH2	19.48	130.04	120.30	4	11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	343	ARG	NE-CZ-NH2	19.29	129.94	120.30	4	11
2	C	171	ARG	NE-CZ-NH1	-19.20	110.70	120.30	14	10
2	C	237	ARG	NE-CZ-NH2	19.04	129.82	120.30	14	10
2	C	138	ARG	NE-CZ-NH2	18.87	129.74	120.30	9	7
2	B	237	ARG	NE-CZ-NH2	18.66	129.63	120.30	8	8
2	C	171	ARG	NE-CZ-NH2	18.62	129.61	120.30	15	13
1	A	437	ARG	NE-CZ-NH1	18.42	129.51	120.30	2	8
2	B	61	ARG	NE-CZ-NH2	18.40	129.50	120.30	7	5
2	C	145	ARG	NE-CZ-NH2	18.23	129.42	120.30	1	12
2	C	210	ARG	NE-CZ-NH2	18.14	129.37	120.30	9	12
2	B	83	ARG	NE-CZ-NH2	17.47	129.03	120.30	13	10
2	B	173	ARG	NE-CZ-NH2	17.35	128.98	120.30	14	7
1	A	343	ARG	NE-CZ-NH1	-17.34	111.63	120.30	4	9
2	B	153	ARG	NE-CZ-NH2	17.03	128.81	120.30	14	12
2	C	199	ARG	NE-CZ-NH2	16.92	128.76	120.30	14	9
1	A	345	ARG	NE-CZ-NH1	-16.75	111.93	120.30	15	10
2	B	61	ARG	NE-CZ-NH1	16.73	128.67	120.30	11	8
1	A	362	ARG	NE-CZ-NH1	16.70	128.65	120.30	5	10
2	B	195	ARG	NE-CZ-NH1	-16.61	111.99	120.30	7	9
2	C	122	TYR	CB-CG-CD2	16.60	130.96	121.00	8	7
2	C	193	ARG	NE-CZ-NH2	16.53	128.57	120.30	4	10
1	A	339	ARG	NE-CZ-NH1	16.45	128.53	120.30	3	8
1	A	464	ARG	NE-CZ-NH1	-16.31	112.14	120.30	1	7
1	A	408	ARG	NE-CZ-NH2	16.19	128.39	120.30	13	11
2	B	182	ARG	NE-CZ-NH2	16.18	128.39	120.30	12	12
2	B	175	ARG	NE-CZ-NH1	-16.13	112.23	120.30	11	10
1	A	408	ARG	NE-CZ-NH1	-16.06	112.27	120.30	15	8
2	B	251	PHE	CB-CG-CD1	15.93	131.95	120.80	11	4
2	C	182	ARG	NE-CZ-NH1	-15.91	112.34	120.30	7	8
2	B	258	TYR	CB-CG-CD2	-15.85	111.49	121.00	11	4
2	C	182	ARG	NE-CZ-NH2	15.56	128.08	120.30	8	7
2	B	145	ARG	NE-CZ-NH1	-15.56	112.52	120.30	12	8
2	C	153	ARG	NE-CZ-NH1	-15.39	112.60	120.30	5	8
2	B	199	ARG	NE-CZ-NH1	-15.37	112.61	120.30	14	9
1	A	345	ARG	NE-CZ-NH2	15.34	127.97	120.30	6	5
2	B	145	ARG	NE-CZ-NH2	15.17	127.88	120.30	7	8
2	B	210	ARG	NE-CZ-NH2	15.08	127.84	120.30	5	7
1	A	431	ARG	NE-CZ-NH2	14.80	127.70	120.30	14	11
1	A	503	ARG	NE-CZ-NH1	-14.79	112.91	120.30	11	10
1	A	399	TYR	CB-CG-CD2	-14.76	112.15	121.00	5	5
2	C	214	TYR	CB-CG-CD1	-14.72	112.17	121.00	13	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	330	ARG	NE-CZ-NH1	14.70	127.65	120.30	5	7
2	C	210	ARG	NE-CZ-NH1	-14.58	113.01	120.30	10	10
1	A	443	ARG	NE-CZ-NH1	-14.51	113.05	120.30	9	5
2	C	122	TYR	CB-CG-CD1	-14.34	112.39	121.00	8	5
2	B	193	ARG	NE-CZ-NH1	-14.11	113.25	120.30	1	9
1	A	372	TYR	CB-CG-CD1	14.07	129.44	121.00	3	5
2	C	173	ARG	NE-CZ-NH2	14.04	127.32	120.30	3	10
2	B	214	TYR	CB-CG-CD2	-13.88	112.67	121.00	11	8
2	B	237	ARG	NE-CZ-NH1	-13.67	113.47	120.30	6	12
2	C	138	ARG	NE-CZ-NH1	-13.57	113.52	120.30	1	6
1	A	467	PHE	CB-CG-CD2	-13.54	111.33	120.80	7	2
2	B	153	ARG	NE-CZ-NH1	-13.48	113.56	120.30	11	9
2	B	89	ASP	CB-CG-OD2	-13.45	106.19	118.30	13	1
1	A	478	TYR	CB-CG-CD2	-13.39	112.97	121.00	9	7
1	A	477	PHE	CB-CG-CD1	13.35	130.14	120.80	8	5
2	C	145	ARG	NE-CZ-NH1	-13.21	113.70	120.30	2	7
1	A	431	ARG	NE-CZ-NH1	-13.19	113.70	120.30	5	7
2	C	195	ARG	NE-CZ-NH1	-13.09	113.76	120.30	9	7
2	C	199	ARG	NE-CZ-NH1	-13.00	113.80	120.30	1	8
1	A	477	PHE	CB-CG-CD2	-12.86	111.80	120.80	8	4
1	A	474	PHE	CB-CG-CD1	-12.85	111.81	120.80	14	5
2	B	247	PHE	CB-CG-CD1	-12.85	111.81	120.80	9	4
1	A	330	ARG	NE-CZ-NH2	12.77	126.69	120.30	9	11
1	A	374	ARG	NE-CZ-NH2	12.73	126.67	120.30	9	7
2	B	171	ARG	NE-CZ-NH2	12.70	126.65	120.30	12	9
2	B	171	ARG	NE-CZ-NH1	-12.60	114.00	120.30	8	5
2	C	116	ARG	NE-CZ-NH1	12.57	126.58	120.30	13	7
2	C	126	PHE	CB-CG-CD1	-12.44	112.09	120.80	4	1
2	B	188	TYR	CB-CG-CD2	-12.42	113.55	121.00	1	4
1	A	435	TYR	CB-CG-CD2	-12.35	113.59	121.00	13	6
1	A	437	ARG	NE-CZ-NH2	-12.19	114.21	120.30	12	6
2	C	175	ARG	NE-CZ-NH1	-12.11	114.25	120.30	5	8
2	B	83	ARG	NE-CZ-NH1	-12.10	114.25	120.30	10	5
1	A	353	TYR	CB-CG-CD2	-12.09	113.74	121.00	3	2
2	C	104	PHE	CB-CG-CD2	-11.99	112.40	120.80	3	6
1	A	429	PHE	CB-CG-CD1	-11.98	112.41	120.80	15	3
1	A	483	TYR	CB-CG-CD1	11.98	128.19	121.00	15	5
1	A	360	PHE	CB-CG-CD2	11.91	129.14	120.80	14	5
2	B	138	ARG	NE-CZ-NH1	-11.89	114.35	120.30	8	6
2	C	247	PHE	CB-CG-CD1	11.88	129.11	120.80	7	4
2	C	251	PHE	CB-CG-CD2	-11.79	112.55	120.80	3	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	443	ARG	NE-CZ-NH2	11.77	126.19	120.30	14	10
2	B	179	ASP	CB-CG-OD2	11.72	128.85	118.30	7	7
2	B	137	TYR	CB-CG-CD2	11.67	128.00	121.00	7	7
1	A	385	ASP	CB-CG-OD2	-11.61	107.85	118.30	1	5
1	A	381	PHE	CB-CG-CD2	-11.59	112.69	120.80	15	5
1	A	362	ARG	NE-CZ-NH2	-11.55	114.53	120.30	10	6
2	B	122	TYR	CB-CG-CD1	-11.54	114.07	121.00	3	4
1	A	379	PHE	CB-CG-CD2	11.46	128.82	120.80	2	3
1	A	385	ASP	CB-CG-OD1	11.33	128.50	118.30	2	5
1	A	446	ASP	CB-CG-OD2	-11.31	108.12	118.30	4	3
2	B	182	ARG	NE-CZ-NH1	-11.30	114.65	120.30	3	7
1	A	374	ARG	NE-CZ-NH1	-11.29	114.66	120.30	3	6
2	B	247	PHE	CB-CG-CD2	11.27	128.69	120.80	9	7
1	A	372	TYR	CB-CG-CD2	-11.14	114.32	121.00	3	4
2	B	210	ARG	NE-CZ-NH1	-11.10	114.75	120.30	1	11
2	C	103	ASP	CB-CG-OD2	10.94	128.15	118.30	8	2
2	B	100	TYR	CG-CD1-CE1	-10.92	112.56	121.30	10	2
1	A	339	ARG	NE-CZ-NH2	-10.89	114.85	120.30	1	6
2	B	115	TYR	CB-CG-CD1	10.88	127.53	121.00	2	6
2	B	115	TYR	CB-CG-CD2	-10.87	114.48	121.00	14	6
2	B	100	TYR	CB-CG-CD1	-10.85	114.49	121.00	10	5
2	B	61	ARG	NH1-CZ-NH2	-10.85	107.46	119.40	7	5
1	A	436	TYR	CB-CG-CD1	-10.84	114.50	121.00	11	7
1	A	476	TYR	CB-CG-CD2	10.83	127.50	121.00	14	6
1	A	471	ASP	CB-CG-OD2	10.78	128.00	118.30	12	6
2	C	137	TYR	CB-CG-CD2	-10.74	114.56	121.00	15	5
2	C	115	TYR	CB-CG-CD2	-10.73	114.56	121.00	12	6
1	A	497	TYR	CB-CG-CD2	-10.68	114.59	121.00	6	5
2	B	188	TYR	CG-CD2-CE2	-10.58	112.83	121.30	3	5
2	C	116	ARG	NH1-CZ-NH2	-10.51	107.83	119.40	10	3
1	A	478	TYR	CB-CG-CD1	10.51	127.31	121.00	3	4
2	C	214	TYR	CB-CG-CD2	10.49	127.30	121.00	13	6
2	C	235	ASP	CB-CG-OD2	-10.49	108.86	118.30	5	5
2	C	100	TYR	CB-CG-CD2	10.46	127.27	121.00	1	8
1	A	341	PHE	CB-CG-CD2	-10.37	113.54	120.80	2	3
2	C	173	ARG	NE-CZ-NH1	-10.36	115.12	120.30	5	7
2	C	137	TYR	CB-CG-CD1	-10.35	114.79	121.00	10	5
1	A	435	TYR	CB-CG-CD1	10.32	127.19	121.00	13	7
1	A	449	TYR	CB-CG-CD2	10.27	127.16	121.00	13	4
2	B	57	PHE	CB-CG-CD2	-10.26	113.62	120.80	5	5
2	C	237	ARG	NE-CZ-NH1	-10.20	115.20	120.30	14	10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	C	235	ASP	CB-CG-OD1	-10.08	109.23	118.30	11	6
1	A	345	ARG	NH1-CZ-NH2	-10.05	108.34	119.40	6	3
2	C	125	ASP	CB-CG-OD1	9.99	127.29	118.30	3	3
1	A	486	PHE	CB-CG-CD1	-9.99	113.81	120.80	10	3
1	A	497	TYR	CG-CD2-CE2	-9.99	113.31	121.30	6	2
1	A	428	TYR	CB-CG-CD2	-9.95	115.03	121.00	8	5
1	A	399	TYR	CB-CG-CD1	-9.94	115.03	121.00	11	4
2	C	100	TYR	CB-CG-CD1	-9.94	115.03	121.00	14	5
2	C	251	PHE	CB-CG-CD1	-9.91	113.86	120.80	15	5
1	A	381	PHE	CB-CG-CD1	9.91	127.74	120.80	15	2
1	A	476	TYR	CB-CG-CD1	-9.87	115.08	121.00	14	6
2	B	124	ASP	CB-CG-OD1	-9.82	109.46	118.30	2	3
2	C	193	ARG	NH1-CZ-NH2	-9.79	108.62	119.40	4	2
2	C	83	ARG	NH1-CZ-NH2	-9.78	108.65	119.40	12	4
1	A	430	PHE	CB-CG-CD2	9.78	127.64	120.80	13	5
2	C	193	ARG	NE-CZ-NH1	-9.77	115.42	120.30	1	7
1	A	390	PHE	CB-CG-CD1	9.74	127.62	120.80	5	4
1	A	430	PHE	CB-CG-CD1	-9.73	113.99	120.80	5	5
1	A	379	PHE	CB-CG-CD1	-9.69	114.02	120.80	2	2
2	C	83	ARG	NE-CZ-NH1	-9.61	115.50	120.30	1	2
1	A	341	PHE	CB-CG-CD1	9.60	127.52	120.80	2	6
2	B	258	TYR	CB-CG-CD1	-9.58	115.25	121.00	12	4
1	A	446	ASP	CB-CG-OD1	9.51	126.86	118.30	4	3
2	B	134	MET	CG-SD-CE	9.47	115.35	100.20	12	3
1	A	436	TYR	CB-CG-CD2	9.40	126.64	121.00	3	5
2	B	100	TYR	CB-CG-CD2	9.34	126.61	121.00	8	5
1	A	391	ASP	CB-CG-OD1	-9.34	109.89	118.30	14	3
2	B	172	ASP	CB-CG-OD2	9.30	126.67	118.30	11	3
2	C	73	ASP	CB-CG-OD1	9.29	126.66	118.30	6	4
2	C	258	TYR	CG-CD2-CE2	-9.26	113.90	121.30	4	1
1	A	503	ARG	NE-CZ-NH2	9.22	124.91	120.30	5	9
2	C	89	ASP	CB-CG-OD2	9.21	126.59	118.30	2	3
2	B	116	ARG	NE-CZ-NH1	-9.14	115.73	120.30	3	3
2	C	237	ARG	NH1-CZ-NH2	-9.13	109.35	119.40	8	4
2	B	122	TYR	CB-CG-CD2	9.12	126.47	121.00	3	4
2	B	199	ARG	NH1-CZ-NH2	-9.11	109.38	119.40	10	2
2	C	104	PHE	CB-CG-CD1	9.11	127.18	120.80	8	5
1	A	478	TYR	CG-CD1-CE1	-9.11	114.01	121.30	11	5
1	A	353	TYR	CB-CG-CD1	-9.08	115.55	121.00	7	3
2	B	188	TYR	CZ-CE2-CD2	9.02	127.92	119.80	3	1
1	A	390	PHE	CB-CG-CD2	-8.95	114.54	120.80	10	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	138	ARG	NE-CZ-NH2	8.91	124.75	120.30	12	10
2	C	126	PHE	CB-CG-CD2	-8.86	114.59	120.80	9	4
1	A	476	TYR	CD1-CE1-CZ	8.87	127.78	119.80	10	1
2	C	258	TYR	CB-CG-CD2	8.79	126.27	121.00	13	7
2	B	126	PHE	CB-CG-CD1	8.68	126.88	120.80	5	2
2	C	170	MET	CG-SD-CE	-8.68	86.31	100.20	5	6
2	C	172	ASP	CB-CG-OD2	8.66	126.09	118.30	1	4
1	A	355	MET	CG-SD-CE	-8.61	86.42	100.20	9	5
1	A	334	PHE	CB-CG-CD1	-8.59	114.79	120.80	13	4
2	C	247	PHE	CB-CG-CD2	-8.57	114.80	120.80	7	3
1	A	422	MET	CG-SD-CE	-8.55	86.52	100.20	1	2
2	C	73	ASP	CB-CG-OD2	-8.54	110.61	118.30	3	1
2	B	172	ASP	CB-CG-OD1	-8.52	110.64	118.30	11	2
2	B	179	ASP	CB-CG-OD1	-8.52	110.64	118.30	13	2
2	C	258	TYR	CB-CG-CD1	-8.49	115.91	121.00	4	7
1	A	484	TRP	CD1-NE1-CE2	8.48	116.63	109.00	8	3
1	A	413	ASP	CB-CG-OD2	8.45	125.90	118.30	7	4
2	B	108	TRP	CB-CG-CD2	8.40	137.52	126.60	14	3
2	C	173	ARG	NH1-CZ-NH2	8.40	128.64	119.40	10	2
1	A	476	TYR	CG-CD2-CE2	-8.39	114.58	121.30	13	1
1	A	389	VAL	CG1-CB-CG2	-8.36	97.52	110.90	6	2
2	B	137	TYR	CB-CG-CD1	-8.35	115.99	121.00	12	7
1	A	428	TYR	CB-CG-CD1	-8.33	116.00	121.00	12	5
2	B	130	TRP	CB-CG-CD2	8.29	137.38	126.60	15	4
2	C	103	ASP	CB-CG-OD1	-8.29	110.83	118.30	11	2
2	B	102	ASP	CB-CG-OD2	-8.26	110.87	118.30	11	5
1	A	360	PHE	CB-CG-CD1	8.24	126.57	120.80	15	6
1	A	320	ASP	CB-CG-OD1	8.23	125.70	118.30	3	3
1	A	484	TRP	CB-CG-CD1	-8.23	116.30	127.00	10	5
2	B	173	ARG	NH1-CZ-NH2	-8.22	110.36	119.40	15	3
1	A	382	PHE	CB-CG-CD1	8.15	126.51	120.80	8	5
2	B	130	TRP	CB-CG-CD1	-8.13	116.42	127.00	15	4
1	A	351	ASP	CB-CG-OD1	8.12	125.61	118.30	4	4
1	A	467	PHE	CB-CG-CD1	8.12	126.48	120.80	5	2
1	A	431	ARG	NH1-CZ-NH2	-8.11	110.48	119.40	12	3
2	C	130	TRP	CE3-CZ3-CH2	-8.11	112.28	121.20	11	2
1	A	420	PHE	CB-CG-CD2	8.11	126.48	120.80	15	6
1	A	421	TRP	CB-CG-CD2	8.11	137.14	126.60	2	1
1	A	320	ASP	CB-CG-OD2	-8.07	111.03	118.30	2	2
2	B	181	LEU	CB-CG-CD2	8.05	124.68	111.00	11	1
2	B	104	PHE	CB-CG-CD2	-8.04	115.17	120.80	6	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	455	VAL	CA-CB-CG2	8.01	122.91	110.90	12	2
2	B	126	PHE	CB-CG-CD2	-8.00	115.20	120.80	5	3
2	B	124	ASP	CB-CG-OD2	7.94	125.45	118.30	9	2
1	A	416	ASP	CB-CG-OD2	-7.94	111.16	118.30	6	4
2	C	122	TYR	CG-CD1-CE1	-7.94	114.95	121.30	10	2
2	C	130	TRP	CB-CG-CD2	7.93	136.92	126.60	4	3
1	A	388	TRP	CD1-NE1-CE2	7.93	116.14	109.00	13	1
2	C	188	TYR	CB-CG-CD2	7.92	125.75	121.00	12	4
1	A	393	ALA	N-CA-CB	-7.91	99.03	110.10	5	1
1	A	484	TRP	CB-CG-CD2	7.85	136.81	126.60	10	5
2	B	226	SER	N-CA-CB	7.85	122.27	110.50	6	1
2	C	79	THR	CA-CB-CG2	-7.84	101.42	112.40	3	2
2	B	83	ARG	NH1-CZ-NH2	-7.83	110.78	119.40	11	2
1	A	438	PHE	CB-CG-CD1	-7.83	115.32	120.80	10	3
2	B	193	ARG	NH1-CZ-NH2	7.82	128.01	119.40	14	4
2	C	188	TYR	CB-CG-CD1	-7.81	116.31	121.00	5	7
1	A	449	TYR	CB-CG-CD1	7.81	125.68	121.00	9	4
2	B	183	THR	CA-CB-CG2	-7.79	101.49	112.40	4	1
1	A	504	ASP	CB-CG-OD2	7.76	125.29	118.30	5	1
2	B	71	PHE	CB-CG-CD1	-7.76	115.37	120.80	3	5
2	B	104	PHE	CB-CG-CD1	7.76	126.23	120.80	11	3
2	B	102	ASP	CB-CG-OD1	7.75	125.27	118.30	13	4
2	B	188	TYR	CG-CD1-CE1	-7.74	115.11	121.30	12	4
1	A	388	TRP	CE2-CD2-CG	-7.72	101.12	107.30	12	1
2	B	181	LEU	CB-CG-CD1	7.72	124.12	111.00	15	1
2	C	124	ASP	CB-CG-OD2	7.70	125.23	118.30	3	2
2	C	130	TRP	CG-CD2-CE3	-7.67	127.00	133.90	13	2
1	A	336	PHE	CB-CG-CD1	7.66	126.16	120.80	6	2
1	A	483	TYR	CB-CG-CD2	-7.62	116.43	121.00	13	4
1	A	414	LYS	CA-CB-CG	7.61	130.13	113.40	11	1
1	A	323	PHE	CB-CG-CD2	-7.60	115.48	120.80	15	4
2	C	82	LEU	CB-CG-CD1	7.59	123.90	111.00	11	1
2	C	100	TYR	CG-CD1-CE1	-7.57	115.24	121.30	6	2
1	A	336	PHE	CB-CG-CD2	-7.53	115.53	120.80	6	2
1	A	347	ASN	N-CA-CB	7.52	124.14	110.60	14	1
2	B	86	MET	CG-SD-CE	-7.50	88.20	100.20	9	3
2	C	61	ARG	NH1-CZ-NH2	-7.48	111.17	119.40	9	2
2	C	57	PHE	CB-CG-CD2	-7.48	115.56	120.80	1	5
2	C	115	TYR	CG-CD1-CE1	-7.46	115.33	121.30	1	2
2	C	175	ARG	NH1-CZ-NH2	-7.45	111.20	119.40	6	3
1	A	437	ARG	NH1-CZ-NH2	-7.42	111.24	119.40	9	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	471	ASP	CB-CG-OD1	-7.42	111.63	118.30	12	3
1	A	450	PRO	N-CA-C	7.41	131.36	112.10	6	2
2	B	251	PHE	CB-CG-CD2	-7.40	115.62	120.80	11	6
2	C	108	TRP	CG-CD2-CE3	-7.40	127.24	133.90	15	1
2	C	115	TYR	CB-CG-CD1	-7.37	116.58	121.00	6	4
2	B	73	ASP	CB-CG-OD2	-7.36	111.68	118.30	6	2
2	C	122	TYR	CG-CD2-CE2	7.35	127.18	121.30	11	1
2	B	188	TYR	CB-CG-CD1	7.33	125.40	121.00	10	6
1	A	506	MET	CG-SD-CE	-7.31	88.51	100.20	2	6
2	C	234	GLU	O-C-N	-7.30	111.01	122.70	5	1
1	A	421	TRP	CB-CG-CD1	-7.30	117.52	127.00	2	1
1	A	354	PRO	N-CD-CG	7.28	114.12	103.20	5	1
1	A	374	ARG	NH1-CZ-NH2	-7.26	111.42	119.40	9	2
1	A	440	GLU	OE1-CD-OE2	-7.25	114.60	123.30	12	2
1	A	361	TRP	CB-CG-CD1	7.24	136.41	127.00	10	1
2	C	72	TRP	CB-CG-CD2	7.22	135.99	126.60	2	2
1	A	408	ARG	NH1-CZ-NH2	-7.22	111.46	119.40	9	4
2	B	115	TYR	CG-CD1-CE1	-7.21	115.53	121.30	5	1
2	C	130	TRP	CD1-CG-CD2	-7.19	100.55	106.30	4	1
2	C	179	ASP	CB-CG-OD2	7.18	124.77	118.30	1	2
2	C	70	GLU	OE1-CD-OE2	-7.17	114.70	123.30	11	3
1	A	342	TRP	CZ3-CH2-CZ2	-7.16	113.01	121.60	13	1
1	A	328	MET	CG-SD-CE	-7.15	88.76	100.20	2	4
2	C	145	ARG	NH1-CZ-NH2	-7.14	111.55	119.40	10	3
2	B	258	TYR	CD1-CE1-CZ	-7.13	113.38	119.80	10	3
2	C	86	MET	CG-SD-CE	-7.09	88.85	100.20	12	2
2	B	57	PHE	CB-CG-CD1	-7.08	115.84	120.80	14	3
1	A	420	PHE	CB-CG-CD1	7.08	125.75	120.80	5	5
2	C	258	TYR	CD1-CG-CD2	7.07	125.68	117.90	4	1
1	A	433	ASN	CB-CA-C	7.07	124.54	110.40	11	1
2	B	108	TRP	CB-CG-CD1	-7.01	117.89	127.00	2	2
1	A	478	TYR	CD1-CG-CD2	7.00	125.60	117.90	9	2
1	A	429	PHE	CB-CG-CD2	-6.98	115.91	120.80	12	5
2	B	125	ASP	CB-CG-OD2	6.98	124.58	118.30	6	3
2	B	120	GLU	OE1-CD-OE2	-6.97	114.94	123.30	11	1
1	A	339	ARG	NH1-CZ-NH2	-6.96	111.75	119.40	3	1
1	A	428	TYR	CZ-CE2-CD2	6.96	126.06	119.80	12	3
2	B	175	ARG	NH1-CZ-NH2	6.94	127.04	119.40	2	4
2	C	130	TRP	CB-CG-CD1	-6.94	117.98	127.00	2	1
1	A	503	ARG	NH1-CZ-NH2	-6.93	111.77	119.40	15	3
2	B	258	TYR	CG-CD1-CE1	6.93	126.85	121.30	6	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	C	71	PHE	CB-CG-CD2	-6.92	115.95	120.80	6	4
1	A	391	ASP	CB-CG-OD2	6.91	124.52	118.30	14	4
2	B	76	GLU	OE1-CD-OE2	6.90	131.59	123.30	5	2
1	A	474	PHE	CB-CG-CD2	6.89	125.62	120.80	7	3
2	B	116	ARG	NH1-CZ-NH2	-6.89	111.83	119.40	12	2
2	C	188	TYR	CG-CD1-CE1	-6.88	115.79	121.30	13	2
2	C	115	TYR	CZ-CE2-CD2	6.88	125.99	119.80	13	3
2	B	192	LEU	CB-CG-CD1	6.87	122.68	111.00	13	1
2	B	71	PHE	CB-CG-CD2	-6.86	116.00	120.80	14	3
1	A	361	TRP	NE1-CE2-CD2	6.86	114.16	107.30	11	1
2	B	103	ASP	CB-CG-OD1	-6.85	112.13	118.30	3	3
1	A	505	TRP	CB-CG-CD2	-6.84	117.70	126.60	2	1
2	C	188	TYR	CG-CD2-CE2	-6.84	115.83	121.30	13	2
1	A	435	TYR	CG-CD2-CE2	-6.84	115.83	121.30	6	2
1	A	392	GLU	OE1-CD-OE2	-6.83	115.10	123.30	6	1
1	A	456	TRP	CB-CG-CD1	6.83	135.88	127.00	11	1
2	B	190	ASP	CB-CG-OD2	-6.83	112.15	118.30	8	2
2	B	190	ASP	CB-CG-OD1	6.82	124.44	118.30	1	4
1	A	342	TRP	CB-CG-CD1	-6.82	118.14	127.00	2	1
2	B	64	LEU	CB-CG-CD2	-6.82	99.42	111.00	12	2
1	A	475	THR	O-C-N	-6.81	111.80	122.70	5	1
1	A	416	ASP	CB-CG-OD1	6.81	124.43	118.30	3	5
1	A	353	TYR	CG-CD1-CE1	-6.81	115.85	121.30	3	2
2	B	237	ARG	N-CA-CB	6.80	122.83	110.60	9	5
1	A	334	PHE	CB-CG-CD2	-6.79	116.05	120.80	12	3
1	A	510	SER	CB-CA-C	6.77	122.95	110.10	12	1
2	B	122	TYR	CD1-CG-CD2	6.74	125.32	117.90	2	1
2	B	166	LEU	CB-CG-CD2	6.74	122.46	111.00	12	1
2	C	179	ASP	CB-CG-OD1	6.74	124.37	118.30	15	3
2	B	66	PRO	N-CA-CB	6.73	111.37	103.30	9	1
2	C	186	ALA	CA-C-N	6.72	135.91	117.10	4	1
2	B	97	VAL	CA-CB-CG2	-6.71	100.84	110.90	7	1
2	B	182	ARG	CD-NE-CZ	6.70	132.99	123.60	4	1
2	B	176	ALA	N-CA-CB	-6.70	100.72	110.10	10	1
2	C	252	LEU	CB-CG-CD1	6.70	122.39	111.00	11	1
1	A	324	ASP	CB-CG-OD1	6.70	124.33	118.30	8	3
2	B	153	ARG	NH1-CZ-NH2	-6.69	112.05	119.40	14	2
2	B	71	PHE	CB-CA-C	6.68	123.77	110.40	2	1
1	A	376	ASP	CB-CG-OD1	6.68	124.31	118.30	13	2
1	A	382	PHE	N-CA-CB	6.67	122.61	110.60	1	3
1	A	372	TYR	CA-CB-CG	6.66	126.06	113.40	5	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	99	PRO	N-CA-CB	6.66	111.29	103.30	9	1
1	A	388	TRP	CB-CG-CD2	-6.65	117.96	126.60	12	4
2	B	250	SER	N-CA-CB	6.64	120.46	110.50	9	1
2	C	191	GLU	OE1-CD-OE2	-6.63	115.34	123.30	15	2
2	B	218	ALA	N-CA-CB	-6.63	100.81	110.10	10	3
2	B	244	LEU	CB-CG-CD2	6.62	122.26	111.00	4	1
1	A	456	TRP	CB-CG-CD2	-6.62	118.00	126.60	11	2
2	C	237	ARG	CD-NE-CZ	6.61	132.85	123.60	9	2
2	C	125	ASP	N-CA-CB	-6.61	98.71	110.60	5	1
1	A	505	TRP	CB-CG-CD1	6.59	135.56	127.00	2	1
1	A	382	PHE	CB-CG-CD2	-6.59	116.19	120.80	9	3
2	C	153	ARG	NH1-CZ-NH2	-6.58	112.17	119.40	3	2
2	B	93	VAL	CA-CB-CG1	-6.57	101.05	110.90	10	1
1	A	486	PHE	CB-CG-CD2	6.56	125.39	120.80	10	4
2	B	169	GLU	OE1-CD-OE2	-6.56	115.43	123.30	11	1
2	C	85	GLU	OE1-CD-OE2	-6.55	115.44	123.30	9	2
2	B	170	MET	O-C-N	-6.55	112.22	122.70	10	1
2	C	128	LYS	O-C-N	-6.55	112.22	122.70	4	1
2	B	92	GLU	OE1-CD-OE2	-6.55	115.44	123.30	14	2
1	A	370	THR	CA-CB-CG2	6.55	121.57	112.40	8	2
1	A	333	MET	CA-CB-CG	6.54	124.43	113.30	3	1
2	C	100	TYR	CG-CD2-CE2	-6.54	116.06	121.30	13	2
2	B	93	VAL	CA-CB-CG2	-6.54	101.09	110.90	11	1
2	C	198	ALA	N-CA-CB	-6.54	100.94	110.10	10	2
2	B	165	PRO	N-CA-CB	6.53	111.13	103.30	1	2
2	B	191	GLU	O-C-N	-6.52	112.26	122.70	10	2
1	A	417	ALA	CB-CA-C	-6.51	100.33	110.10	7	1
1	A	380	VAL	CA-CB-CG2	-6.51	101.14	110.90	1	1
1	A	382	PHE	CG-CD2-CE2	6.50	127.95	120.80	4	1
2	C	195	ARG	NH1-CZ-NH2	-6.50	112.25	119.40	4	2
2	B	154	GLN	O-C-N	-6.49	112.31	122.70	10	1
1	A	353	TYR	CG-CD2-CE2	-6.49	116.11	121.30	6	2
1	A	443	ARG	NH1-CZ-NH2	-6.48	112.27	119.40	10	2
2	C	178	VAL	CA-CB-CG2	-6.48	101.18	110.90	9	1
1	A	497	TYR	CD1-CG-CD2	6.46	125.01	117.90	8	1
1	A	351	ASP	CB-CG-OD2	-6.45	112.49	118.30	1	4
2	C	72	TRP	CB-CG-CD1	-6.45	118.61	127.00	2	2
2	B	103	ASP	CB-CG-OD2	6.45	124.11	118.30	3	4
2	C	210	ARG	NH1-CZ-NH2	-6.45	112.31	119.40	4	6
1	A	442	LEU	CB-CA-C	-6.45	97.95	110.20	8	1
1	A	497	TYR	CB-CG-CD1	6.44	124.87	121.00	12	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	493	VAL	CA-CB-CG2	6.44	120.56	110.90	5	1
2	B	170	MET	CG-SD-CE	-6.44	89.89	100.20	7	5
1	A	379	PHE	CG-CD1-CE1	6.44	127.88	120.80	7	1
1	A	412	THR	CA-CB-CG2	6.43	121.41	112.40	15	3
2	C	68	THR	CA-CB-CG2	6.41	121.38	112.40	4	1
1	A	343	ARG	NH1-CZ-NH2	-6.41	112.34	119.40	11	2
2	B	89	ASP	CB-CG-OD1	6.41	124.07	118.30	13	1
2	C	110	GLU	OE1-CD-OE2	-6.41	115.61	123.30	11	1
2	C	57	PHE	CB-CG-CD1	-6.41	116.31	120.80	6	3
2	B	253	SER	N-CA-CB	6.41	120.12	110.50	9	1
2	C	130	TRP	CZ3-CH2-CZ2	-6.40	113.92	121.60	4	2
2	C	71	PHE	CB-CG-CD1	6.40	125.28	120.80	13	4
2	C	195	ARG	CD-NE-CZ	6.40	132.56	123.60	5	1
2	B	63	GLN	N-CA-CB	-6.40	99.09	110.60	5	1
2	C	184	HIS	O-C-N	-6.40	112.47	122.70	11	1
2	C	95	ALA	N-CA-CB	-6.39	101.15	110.10	15	1
2	C	93	VAL	CA-CB-CG2	-6.39	101.32	110.90	3	1
2	B	133	GLU	OE1-CD-OE2	-6.39	115.64	123.30	15	1
2	C	94	LYS	O-C-N	-6.38	112.49	122.70	1	1
2	C	172	ASP	CB-CG-OD1	6.38	124.04	118.30	7	2
2	C	148	LEU	N-CA-CB	-6.38	97.64	110.40	15	1
1	A	361	TRP	CB-CG-CD2	-6.38	118.31	126.60	10	2
2	B	128	LYS	N-CA-CB	-6.37	99.13	110.60	7	1
2	B	188	TYR	CD1-CE1-CZ	6.37	125.53	119.80	7	1
1	A	463	PRO	N-CA-CB	6.37	110.94	103.30	4	1
2	C	111	GLU	OE1-CD-OE2	-6.36	115.66	123.30	6	1
2	B	191	GLU	OE1-CD-OE2	-6.35	115.67	123.30	9	1
2	B	235	ASP	CB-CG-OD1	6.35	124.02	118.30	2	2
2	B	72	TRP	CB-CG-CD1	-6.35	118.75	127.00	15	1
2	B	202	ALA	N-CA-CB	-6.35	101.21	110.10	7	2
2	C	188	TYR	CD1-CE1-CZ	6.35	125.51	119.80	13	1
2	B	122	TYR	CG-CD1-CE1	-6.33	116.24	121.30	2	3
1	A	323	PHE	CB-CG-CD1	6.33	125.23	120.80	15	3
1	A	464	ARG	NH1-CZ-NH2	-6.32	112.44	119.40	8	1
1	A	418	ALA	CB-CA-C	-6.32	100.62	110.10	8	1
2	C	202	ALA	N-CA-CB	-6.32	101.26	110.10	7	2
2	B	158	GLU	OE1-CD-OE2	-6.31	115.73	123.30	15	2
1	A	445	VAL	CA-CB-CG1	6.31	120.36	110.90	14	1
2	C	258	TYR	N-CA-CB	-6.31	99.25	110.60	2	1
2	B	178	VAL	CA-CB-CG1	6.30	120.35	110.90	6	1
1	A	435	TYR	CB-CA-C	6.29	122.98	110.40	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	361	TRP	NE1-CE2-CZ2	-6.28	123.49	130.40	1	1
2	B	147	GLU	OE1-CD-OE2	-6.28	115.76	123.30	9	2
2	C	264	THR	CA-CB-CG2	-6.28	103.60	112.40	5	1
1	A	449	TYR	CG-CD2-CE2	-6.28	116.27	121.30	14	3
2	B	183	THR	N-CA-CB	6.28	122.24	110.30	11	1
1	A	372	TYR	CG-CD1-CE1	-6.27	116.28	121.30	7	2
1	A	413	ASP	O-C-N	-6.27	112.66	122.70	11	2
2	C	232	ALA	N-CA-CB	-6.27	101.32	110.10	3	3
2	C	250	SER	N-CA-CB	6.27	119.91	110.50	6	1
2	C	199	ARG	NH1-CZ-NH2	-6.27	112.51	119.40	10	3
1	A	353	TYR	CZ-CE2-CD2	6.25	125.43	119.80	6	3
1	A	362	ARG	NH1-CZ-NH2	-6.25	112.53	119.40	11	1
1	A	428	TYR	CD1-CE1-CZ	6.24	125.42	119.80	11	2
2	B	137	TYR	CZ-CE2-CD2	-6.24	114.18	119.80	7	1
2	B	142	GLU	OE1-CD-OE2	-6.24	115.81	123.30	3	2
1	A	478	TYR	CG-CD2-CE2	-6.23	116.31	121.30	9	2
1	A	477	PHE	CB-CA-C	-6.23	97.95	110.40	15	1
1	A	413	ASP	CB-CG-OD1	-6.22	112.70	118.30	7	3
2	C	100	TYR	CD1-CE1-CZ	-6.21	114.21	119.80	2	1
1	A	464	ARG	CD-NE-CZ	6.21	132.29	123.60	5	1
2	C	183	THR	CA-CB-CG2	-6.21	103.71	112.40	8	2
1	A	332	GLU	OE1-CD-OE2	-6.20	115.86	123.30	8	2
2	B	125	ASP	CB-CA-C	-6.20	98.01	110.40	14	1
2	B	73	ASP	CB-CG-OD1	6.19	123.87	118.30	6	1
1	A	349	VAL	CG1-CB-CG2	6.19	120.80	110.90	6	1
2	C	147	GLU	CG-CD-OE2	6.19	130.67	118.30	11	1
2	B	249	VAL	CG1-CB-CG2	-6.18	101.00	110.90	6	3
2	B	95	ALA	CB-CA-C	6.18	119.37	110.10	2	2
1	A	428	TYR	CG-CD2-CE2	-6.17	116.36	121.30	9	2
1	A	349	VAL	CA-CB-CG1	-6.17	101.64	110.90	6	1
1	A	379	PHE	CD1-CE1-CZ	-6.17	112.69	120.10	7	1
1	A	428	TYR	CD1-CG-CD2	6.16	124.68	117.90	3	1
2	C	190	ASP	CB-CG-OD1	6.15	123.84	118.30	12	2
2	C	102	ASP	CB-CG-OD1	6.15	123.83	118.30	5	1
1	A	374	ARG	CD-NE-CZ	6.15	132.21	123.60	15	2
1	A	436	TYR	CG-CD1-CE1	-6.15	116.38	121.30	7	2
2	C	122	TYR	CD1-CE1-CZ	6.14	125.33	119.80	6	1
2	C	130	TRP	CH2-CZ2-CE2	-6.11	111.29	117.40	2	1
1	A	346	ASN	CA-CB-CG	-6.11	99.96	113.40	10	1
2	C	210	ARG	CA-CB-CG	6.11	126.83	113.40	2	1
2	B	247	PHE	CG-CD1-CE1	6.10	127.51	120.80	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	C	116	ARG	CD-NE-CZ	6.09	132.12	123.60	13	2
1	A	461	GLU	O-C-N	-6.09	112.96	122.70	12	1
2	B	100	TYR	CD1-CE1-CZ	6.08	125.28	119.80	10	1
2	B	157	HIS	CA-CB-CG	-6.08	103.26	113.60	2	1
1	A	353	TYR	CA-CB-CG	-6.07	101.86	113.40	15	1
2	C	58	SER	N-CA-CB	6.07	119.61	110.50	15	1
1	A	439	ASN	O-C-N	-6.07	112.99	122.70	4	1
1	A	396	GLU	OE1-CD-OE2	-6.07	116.02	123.30	1	1
2	C	64	LEU	O-C-N	-6.06	112.89	123.20	3	1
2	B	197	ALA	N-CA-CB	-6.06	101.62	110.10	7	1
1	A	417	ALA	N-CA-CB	6.06	118.58	110.10	7	1
2	C	188	TYR	O-C-N	-6.05	113.01	122.70	5	1
1	A	459	ILE	CA-C-N	6.04	134.02	117.10	12	2
2	B	164	SER	N-CA-C	6.04	127.31	111.00	10	2
2	C	89	ASP	CB-CG-OD1	-6.04	112.87	118.30	1	2
2	B	264	THR	CA-CB-CG2	-6.04	103.95	112.40	7	1
2	B	237	ARG	NH1-CZ-NH2	-6.04	112.76	119.40	8	3
2	C	134	MET	N-CA-CB	-6.04	99.73	110.60	10	1
1	A	491	LEU	CB-CA-C	6.03	121.66	110.20	14	1
2	B	135	GLU	CB-CA-C	6.03	122.46	110.40	6	1
2	B	185	LEU	N-CA-CB	-6.02	98.36	110.40	12	1
2	B	250	SER	CB-CA-C	6.02	121.54	110.10	1	1
2	C	141	VAL	CA-CB-CG2	-6.02	101.88	110.90	4	3
2	C	120	GLU	CA-C-N	6.02	133.94	117.10	15	2
2	B	95	ALA	N-CA-CB	-6.01	101.68	110.10	9	2
1	A	404	LYS	O-C-N	-6.00	113.10	122.70	15	3
2	B	138	ARG	NH1-CZ-NH2	-6.00	112.80	119.40	10	2
2	C	115	TYR	CD1-CE1-CZ	6.00	125.20	119.80	14	1
2	C	214	TYR	CG-CD1-CE1	-6.00	116.50	121.30	12	4
2	B	55	SER	N-CA-CB	5.98	119.48	110.50	2	1
2	B	91	GLU	OE1-CD-OE2	-5.98	116.12	123.30	13	1
1	A	367	SER	N-CA-CB	5.98	119.47	110.50	1	3
2	C	108	TRP	CG-CD1-NE1	5.98	116.08	110.10	13	2
2	C	141	VAL	CG1-CB-CG2	-5.98	101.34	110.90	13	1
2	C	114	LEU	CB-CG-CD1	-5.97	100.84	111.00	7	1
1	A	462	SER	N-CA-CB	5.97	119.46	110.50	4	2
2	B	62	GLU	OE1-CD-OE2	-5.97	116.14	123.30	11	1
2	B	117	GLN	CA-CB-CG	5.97	126.53	113.40	14	1
2	B	258	TYR	CG-CD2-CE2	-5.97	116.53	121.30	5	2
2	C	178	VAL	CG1-CB-CG2	-5.96	101.36	110.90	10	1
1	A	343	ARG	CD-NE-CZ	5.96	131.95	123.60	2	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	119	VAL	CA-CB-CG1	5.96	119.84	110.90	12	2
2	C	108	TRP	NE1-CE2-CD2	-5.96	101.34	107.30	1	1
2	B	232	ALA	CB-CA-C	-5.95	101.17	110.10	6	1
1	A	467	PHE	CZ-CE2-CD2	5.95	127.24	120.10	14	2
2	C	149	GLN	O-C-N	-5.94	113.20	122.70	4	1
1	A	476	TYR	CG-CD1-CE1	-5.94	116.55	121.30	10	2
2	C	56	THR	OG1-CB-CG2	-5.94	96.34	110.00	14	1
1	A	428	TYR	CG-CD1-CE1	-5.93	116.55	121.30	1	2
2	C	137	TYR	CG-CD2-CE2	-5.93	116.55	121.30	13	1
2	C	175	ARG	CB-CA-C	5.93	122.27	110.40	15	1
1	A	381	PHE	CZ-CE2-CD2	-5.93	112.98	120.10	12	1
2	C	121	PRO	N-CA-CB	5.93	110.42	103.30	1	1
2	C	106	LYS	O-C-N	-5.93	113.21	122.70	7	1
2	B	71	PHE	CG-CD2-CE2	-5.93	114.28	120.80	9	1
1	A	341	PHE	CD1-CE1-CZ	-5.93	112.98	120.10	10	1
2	B	238	GLN	N-CA-CB	5.92	121.27	110.60	6	1
2	C	134	MET	O-C-N	-5.92	113.22	122.70	9	1
2	C	124	ASP	N-CA-CB	-5.91	99.96	110.60	10	1
2	C	100	TYR	O-C-N	-5.91	113.24	122.70	9	1
2	C	146	ALA	N-CA-CB	-5.91	101.83	110.10	4	2
1	A	375	LYS	O-C-N	-5.91	113.25	122.70	3	1
2	C	244	LEU	CB-CG-CD1	5.90	121.03	111.00	9	1
2	C	214	TYR	CZ-CE2-CD2	5.89	125.10	119.80	12	2
2	B	115	TYR	CG-CD2-CE2	-5.88	116.60	121.30	12	2
1	A	446	ASP	O-C-N	-5.87	113.30	122.70	12	2
2	B	141	VAL	CG1-CB-CG2	-5.87	101.50	110.90	3	1
2	B	67	VAL	CB-CA-C	5.87	122.56	111.40	14	1
2	B	71	PHE	CD1-CG-CD2	5.87	125.93	118.30	9	1
2	C	202	ALA	C-N-CA	5.87	136.37	121.70	9	1
1	A	491	LEU	N-CA-CB	5.86	122.12	110.40	10	1
1	A	403	ILE	CB-CA-C	5.86	123.32	111.60	4	1
1	A	361	TRP	CH2-CZ2-CE2	5.86	123.26	117.40	9	1
1	A	452	ASN	CB-CA-C	5.86	122.11	110.40	13	1
1	A	361	TRP	CE2-CD2-CG	-5.85	102.62	107.30	9	2
2	B	171	ARG	NH1-CZ-NH2	-5.85	112.96	119.40	10	4
1	A	387	HIS	CA-CB-CG	5.85	123.55	113.60	5	4
1	A	416	ASP	CB-CA-C	-5.85	98.70	110.40	4	1
2	B	203	LEU	O-C-N	-5.85	113.34	122.70	9	2
2	C	179	ASP	O-C-N	-5.85	113.34	122.70	10	1
1	A	456	TRP	CG-CD2-CE3	-5.84	128.64	133.90	6	1
1	A	510	SER	N-CA-CB	5.84	119.25	110.50	13	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	C	163	LEU	CB-CG-CD2	5.83	120.91	111.00	2	1
2	C	174	ALA	N-CA-CB	5.83	118.26	110.10	6	1
1	A	455	VAL	CA-CB-CG1	5.83	119.64	110.90	10	2
2	B	234	GLU	OE1-CD-OE2	-5.82	116.32	123.30	4	1
1	A	341	PHE	CB-CA-C	5.82	122.04	110.40	5	1
2	C	186	ALA	N-CA-CB	-5.82	101.96	110.10	8	2
1	A	484	TRP	CG-CD1-NE1	-5.82	104.28	110.10	5	2
2	B	166	LEU	CB-CG-CD1	5.82	120.89	111.00	6	1
2	B	63	GLN	O-C-N	-5.80	113.41	122.70	10	1
2	B	212	ALA	N-CA-CB	-5.80	101.98	110.10	1	1
1	A	438	PHE	CB-CG-CD2	-5.80	116.74	120.80	7	2
2	B	108	TRP	CE3-CZ3-CH2	5.80	127.58	121.20	8	1
2	C	258	TYR	CG-CD1-CE1	-5.80	116.66	121.30	4	4
2	B	123	LEU	CB-CG-CD2	5.80	120.85	111.00	13	1
1	A	326	VAL	CG1-CB-CG2	-5.79	101.63	110.90	13	1
1	A	462	SER	CB-CA-C	5.79	121.11	110.10	9	1
2	C	142	GLU	OE1-CD-OE2	-5.79	116.36	123.30	4	1
2	B	236	LEU	CB-CG-CD2	-5.78	101.17	111.00	7	1
2	C	104	PHE	CG-CD2-CE2	-5.78	114.44	120.80	3	1
1	A	501	ALA	N-CA-CB	5.78	118.19	110.10	5	1
2	B	186	ALA	CA-C-N	5.78	133.28	117.10	9	1
2	C	188	TYR	CZ-CE2-CD2	5.78	125.00	119.80	13	1
1	A	479	LYS	C-N-CA	5.77	134.43	122.30	8	1
2	C	112	MET	CG-SD-CE	5.77	109.44	100.20	2	1
2	C	125	ASP	CB-CG-OD2	5.77	123.50	118.30	14	3
1	A	390	PHE	N-CA-CB	5.77	120.98	110.60	4	1
2	C	259	THR	CA-CB-CG2	-5.77	104.32	112.40	14	1
2	B	68	THR	CA-CB-CG2	-5.76	104.33	112.40	13	2
1	A	326	VAL	O-C-N	-5.75	113.51	122.70	11	1
1	A	387	HIS	N-CA-CB	5.75	120.94	110.60	15	1
1	A	399	TYR	CG-CD1-CE1	-5.75	116.70	121.30	11	3
2	B	100	TYR	CD1-CG-CD2	5.74	124.21	117.90	10	1
2	C	108	TRP	CE2-CD2-CG	5.74	111.89	107.30	1	1
2	C	127	GLN	CG-CD-OE1	5.74	133.07	121.60	3	1
2	B	149	GLN	CA-CB-CG	5.74	126.02	113.40	13	1
2	C	108	TRP	CD2-CE3-CZ3	5.73	126.25	118.80	6	1
2	B	115	TYR	CD1-CE1-CZ	-5.73	114.64	119.80	3	1
2	B	182	ARG	NH1-CZ-NH2	-5.73	113.10	119.40	8	1
2	B	120	GLU	N-CA-C	5.72	126.45	111.00	14	1
1	A	414	LYS	O-C-N	-5.71	113.56	122.70	4	1
2	B	219	THR	CA-CB-CG2	-5.71	104.40	112.40	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	C	97	VAL	CA-CB-CG2	-5.71	102.34	110.90	5	1
1	A	422	MET	CA-C-N	5.71	133.08	117.10	1	1
1	A	399	TYR	CB-CA-C	-5.71	98.99	110.40	12	1
2	B	72	TRP	CH2-CZ2-CE2	5.71	123.11	117.40	12	1
2	B	126	PHE	CD1-CE1-CZ	5.70	126.94	120.10	12	1
2	B	72	TRP	CD2-CE2-CZ2	-5.70	115.46	122.30	12	1
1	A	421	TRP	CE2-CD2-CG	-5.70	102.74	107.30	3	1
1	A	390	PHE	CG-CD2-CE2	5.70	127.07	120.80	5	1
2	C	128	LYS	N-CA-CB	5.70	120.85	110.60	13	1
2	C	71	PHE	CG-CD1-CE1	-5.69	114.54	120.80	4	1
2	B	217	LYS	CB-CA-C	-5.69	99.02	110.40	9	1
2	C	205	GLU	OE1-CD-OE2	-5.69	116.47	123.30	15	1
1	A	376	ASP	N-CA-CB	5.68	120.83	110.60	10	1
1	A	325	THR	N-CA-CB	5.68	121.09	110.30	4	2
1	A	324	ASP	CB-CA-C	-5.68	99.04	110.40	10	1
1	A	486	PHE	O-C-N	-5.68	113.61	122.70	15	1
1	A	317	ASN	CA-CB-CG	-5.67	100.92	113.40	15	1
1	A	335	VAL	CG1-CB-CG2	5.67	119.97	110.90	4	2
2	C	62	GLU	OE1-CD-OE2	-5.67	116.50	123.30	5	1
2	B	164	SER	N-CA-CB	5.67	119.00	110.50	6	2
1	A	484	TRP	CD1-CG-CD2	5.67	110.83	106.30	14	1
2	C	190	ASP	CB-CG-OD2	-5.66	113.20	118.30	6	3
2	B	225	LEU	O-C-N	-5.66	113.64	122.70	10	1
2	B	214	TYR	CG-CD2-CE2	5.66	125.83	121.30	14	1
2	C	71	PHE	CA-CB-CG	5.66	127.48	113.90	14	1
1	A	491	LEU	CB-CG-CD1	-5.66	101.39	111.00	8	2
1	A	376	ASP	CB-CG-OD2	5.66	123.39	118.30	6	2
1	A	321	GLY	C-N-CA	5.65	135.83	121.70	13	1
1	A	477	PHE	N-CA-CB	5.65	120.77	110.60	4	2
2	C	98	GLN	CB-CA-C	5.65	121.70	110.40	10	1
2	B	213	GLU	OE1-CD-OE2	-5.65	116.53	123.30	12	1
2	B	178	VAL	O-C-N	-5.65	113.67	122.70	14	1
1	A	394	SER	N-CA-CB	5.64	118.96	110.50	15	1
2	C	264	THR	N-CA-CB	5.64	121.02	110.30	13	2
1	A	389	VAL	N-CA-CB	5.64	123.90	111.50	3	1
1	A	340	TRP	CD1-NE1-CE2	5.64	114.07	109.00	9	1
2	C	112	MET	CB-CA-C	5.64	121.67	110.40	8	1
1	A	370	THR	N-CA-CB	5.63	121.01	110.30	13	1
2	C	201	GLU	OE1-CD-OE2	-5.63	116.54	123.30	4	1
2	B	214	TYR	CD1-CG-CD2	-5.62	111.71	117.90	1	1
2	C	200	LEU	CB-CA-C	5.62	120.88	110.20	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	403	ILE	O-C-N	-5.62	113.71	122.70	5	1
2	C	82	LEU	CB-CA-C	-5.61	99.54	110.20	14	1
1	A	484	TRP	CZ3-CH2-CZ2	-5.61	114.87	121.60	7	2
2	B	94	LYS	O-C-N	-5.61	113.73	122.70	8	1
2	C	153	ARG	O-C-N	-5.61	113.73	122.70	12	1
1	A	441	GLU	CB-CA-C	-5.60	99.19	110.40	1	1
1	A	505	TRP	N-CA-CB	5.60	120.68	110.60	6	1
2	C	153	ARG	CD-NE-CZ	5.60	131.44	123.60	8	1
2	C	93	VAL	CG1-CB-CG2	-5.59	101.95	110.90	13	2
2	C	138	ARG	N-CA-CB	5.59	120.67	110.60	13	1
2	C	122	TYR	CD1-CG-CD2	-5.59	111.75	117.90	11	1
1	A	447	SER	N-CA-CB	-5.59	102.11	110.50	6	1
2	C	135	GLU	OE1-CD-OE2	-5.58	116.60	123.30	10	1
2	B	264	THR	N-CA-CB	5.58	120.90	110.30	5	1
2	C	111	GLU	CB-CA-C	5.58	121.55	110.40	8	1
2	B	259	THR	O-C-N	-5.58	113.78	122.70	3	1
2	C	97	VAL	CA-CB-CG1	5.58	119.26	110.90	15	2
2	C	190	ASP	O-C-N	-5.57	113.78	122.70	11	1
2	B	112	MET	CA-CB-CG	-5.57	103.83	113.30	6	1
2	B	200	LEU	CB-CG-CD2	-5.57	101.53	111.00	12	1
1	A	497	TYR	CD1-CE1-CZ	-5.57	114.79	119.80	5	3
2	C	78	GLU	OE1-CD-OE2	-5.57	116.62	123.30	8	3
2	B	248	LYS	O-C-N	-5.56	113.81	122.70	1	1
2	C	226	SER	N-CA-CB	-5.56	102.16	110.50	7	1
2	B	86	MET	CA-CB-CG	5.55	122.74	113.30	10	1
2	B	59	LYS	N-CA-CB	-5.55	100.61	110.60	7	1
1	A	497	TYR	CZ-CE2-CD2	5.55	124.79	119.80	6	1
2	B	252	LEU	CB-CG-CD2	5.55	120.43	111.00	14	1
2	B	251	PHE	N-CA-CB	-5.54	100.63	110.60	10	1
2	B	137	TYR	CG-CD1-CE1	-5.54	116.87	121.30	10	1
2	C	175	ARG	CB-CG-CD	5.53	125.99	111.60	6	2
1	A	468	MET	O-C-N	-5.53	113.80	123.20	2	1
2	B	223	SER	CB-CA-C	-5.53	99.60	110.10	1	1
2	C	229	ALA	CB-CA-C	-5.53	101.81	110.10	1	2
1	A	492	LYS	CB-CA-C	-5.52	99.36	110.40	9	1
2	C	119	VAL	O-C-N	-5.52	113.87	122.70	10	1
1	A	340	TRP	CH2-CZ2-CE2	5.51	122.92	117.40	2	1
1	A	322	ASN	CA-CB-CG	-5.51	101.27	113.40	10	1
1	A	486	PHE	CB-CA-C	5.51	121.43	110.40	2	1
1	A	372	TYR	CD1-CE1-CZ	-5.51	114.84	119.80	14	1
2	C	257	GLU	OE1-CD-OE2	-5.51	116.69	123.30	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	C	110	GLU	O-C-N	-5.51	113.89	122.70	14	1
2	B	201	GLU	O-C-N	-5.51	113.89	122.70	8	1
1	A	479	LYS	O-C-N	-5.50	113.84	123.20	11	1
1	A	422	MET	N-CA-C	5.50	125.86	111.00	1	2
2	B	258	TYR	CD1-CG-CD2	5.50	123.95	117.90	11	1
1	A	495	PRO	CA-C-N	5.50	127.19	116.20	7	1
1	A	501	ALA	O-C-N	-5.49	113.91	122.70	10	1
2	C	102	ASP	O-C-N	-5.49	113.91	122.70	4	2
2	C	214	TYR	CD1-CE1-CZ	5.49	124.74	119.80	12	1
2	B	180	ALA	N-CA-CB	-5.49	102.42	110.10	4	1
2	B	91	GLU	O-C-N	-5.49	113.92	122.70	14	1
2	B	257	GLU	OE1-CD-OE2	-5.49	116.72	123.30	9	2
2	B	241	LEU	CB-CG-CD1	5.49	120.32	111.00	9	1
2	C	119	VAL	CA-CB-CG1	5.48	119.12	110.90	9	1
2	C	193	ARG	N-CA-CB	5.48	120.46	110.60	14	1
2	B	72	TRP	CB-CG-CD2	5.48	133.72	126.60	15	1
1	A	468	MET	CG-SD-CE	-5.47	91.44	100.20	13	2
1	A	424	ASN	O-C-N	-5.47	113.89	123.20	8	1
1	A	422	MET	O-C-N	-5.47	110.71	121.10	1	1
2	C	115	TYR	CG-CD2-CE2	-5.47	116.92	121.30	13	1
2	C	122	TYR	O-C-N	-5.47	113.95	122.70	1	1
2	B	205	GLU	OE1-CD-OE2	-5.47	116.74	123.30	5	1
2	B	245	GLU	OE1-CD-OE2	-5.46	116.74	123.30	11	1
1	A	399	TYR	CA-CB-CG	-5.46	103.02	113.40	15	2
2	C	171	ARG	NH1-CZ-NH2	-5.46	113.40	119.40	15	1
2	C	164	SER	CA-C-N	5.45	132.36	117.10	4	1
2	B	261	LYS	O-C-N	-5.45	113.98	122.70	6	1
2	C	256	GLU	OE1-CD-OE2	-5.45	116.76	123.30	7	1
2	C	152	ALA	O-C-N	-5.45	113.99	122.70	2	1
2	C	186	ALA	CA-C-O	-5.45	108.67	120.10	4	1
2	C	147	GLU	CB-CA-C	5.45	121.29	110.40	7	1
2	C	196	LEU	CB-CA-C	5.44	120.54	110.20	13	1
1	A	342	TRP	CB-CG-CD2	5.44	133.67	126.60	14	1
1	A	353	TYR	CA-C-O	-5.44	108.68	120.10	10	1
1	A	436	TYR	CD1-CE1-CZ	-5.44	114.91	119.80	11	1
2	B	76	GLU	N-CA-CB	5.43	120.37	110.60	2	2
2	B	238	GLN	O-C-N	-5.43	113.97	123.20	3	1
1	A	334	PHE	CZ-CE2-CD2	-5.43	113.59	120.10	2	1
2	B	135	GLU	OE1-CD-OE2	-5.43	116.79	123.30	9	1
1	A	444	ALA	N-CA-CB	-5.43	102.50	110.10	11	1
1	A	484	TRP	CE2-CD2-CG	-5.42	102.96	107.30	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	388	TRP	CD1-CG-CD2	5.42	110.64	106.30	12	1
1	A	473	VAL	CA-CB-CG1	5.42	119.03	110.90	13	1
2	C	220	GLU	N-CA-CB	5.42	120.35	110.60	14	1
2	C	123	LEU	CB-CA-C	5.41	120.48	110.20	3	1
2	C	136	LEU	CB-CG-CD2	-5.41	101.80	111.00	4	1
2	B	90	LEU	CB-CG-CD2	5.41	120.19	111.00	10	1
2	C	186	ALA	N-CA-C	5.41	125.60	111.00	13	1
1	A	475	THR	CA-CB-CG2	5.41	119.97	112.40	7	1
2	B	170	MET	N-CA-CB	5.41	120.33	110.60	8	1
2	C	251	PHE	CG-CD1-CE1	-5.40	114.86	120.80	1	1
2	C	60	LEU	CB-CG-CD1	5.39	120.17	111.00	15	1
2	C	113	GLU	OE1-CD-OE2	-5.39	116.83	123.30	9	1
2	B	150	GLU	OE1-CD-OE2	-5.38	116.84	123.30	9	1
1	A	473	VAL	C-N-CA	5.38	135.15	121.70	2	1
2	C	147	GLU	OE1-CD-OE2	-5.38	116.84	123.30	2	2
2	B	214	TYR	CD1-CE1-CZ	-5.38	114.96	119.80	14	1
1	A	404	LYS	N-CA-CB	5.37	120.27	110.60	3	1
1	A	494	GLU	N-CA-CB	5.37	120.27	110.60	8	1
2	C	171	ARG	CG-CD-NE	-5.37	100.52	111.80	14	1
2	B	142	GLU	CB-CA-C	5.37	121.14	110.40	5	1
1	A	335	VAL	CA-CB-CG2	-5.37	102.84	110.90	2	1
1	A	342	TRP	CB-CA-C	-5.36	99.67	110.40	1	1
2	C	213	GLU	OE1-CD-OE2	-5.36	116.87	123.30	7	3
2	B	263	ASN	CB-CA-C	-5.36	99.68	110.40	8	1
2	C	73	ASP	CA-CB-CG	-5.35	101.62	113.40	3	1
1	A	384	GLY	O-C-N	-5.35	114.14	122.70	13	1
2	C	245	GLU	OE1-CD-OE2	-5.35	116.88	123.30	12	1
1	A	422	MET	CA-CB-CG	5.35	122.39	113.30	8	1
1	A	341	PHE	C-N-CA	5.34	135.06	121.70	6	1
1	A	453	ILE	CA-CB-CG1	5.34	121.14	111.00	3	1
2	B	145	ARG	NH1-CZ-NH2	-5.34	113.53	119.40	9	2
1	A	343	ARG	CG-CD-NE	-5.34	100.59	111.80	3	2
2	C	136	LEU	CB-CG-CD1	5.34	120.07	111.00	3	1
2	B	58	SER	O-C-N	-5.33	114.17	122.70	12	1
1	A	419	LEU	C-N-CA	5.33	135.03	121.70	14	1
2	B	152	ALA	N-CA-CB	-5.33	102.64	110.10	6	1
2	B	61	ARG	CD-NE-CZ	5.33	131.06	123.60	9	1
2	C	115	TYR	CD1-CG-CD2	5.33	123.76	117.90	12	2
1	A	476	TYR	CZ-CE2-CD2	5.33	124.60	119.80	2	2
1	A	478	TYR	CZ-CE2-CD2	-5.33	115.00	119.80	2	1
2	B	177	HIS	N-CA-CB	5.33	120.19	110.60	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	413	ASP	CB-CA-C	5.33	121.05	110.40	6	1
2	C	194	GLN	O-C-N	-5.32	114.18	122.70	5	1
2	B	67	VAL	CA-CB-CG1	5.32	118.88	110.90	13	2
2	B	60	LEU	CB-CG-CD2	5.32	120.04	111.00	12	1
1	A	383	LYS	CB-CA-C	-5.31	99.78	110.40	5	1
2	C	145	ARG	CD-NE-CZ	5.31	131.04	123.60	13	2
2	C	175	ARG	O-C-N	-5.31	114.20	122.70	14	1
2	B	221	HIS	CA-CB-CG	-5.31	104.57	113.60	9	1
2	C	141	VAL	CA-CB-CG1	-5.31	102.94	110.90	9	1
2	C	258	TYR	CD1-CE1-CZ	-5.31	115.02	119.80	14	1
2	C	138	ARG	NH1-CZ-NH2	5.31	125.24	119.40	1	1
1	A	432	GLY	CA-C-O	5.31	130.16	120.60	3	1
1	A	448	GLU	N-CA-CB	5.31	120.15	110.60	4	1
1	A	441	GLU	OE1-CD-OE2	-5.30	116.94	123.30	4	2
1	A	477	PHE	CG-CD1-CE1	5.30	126.63	120.80	6	1
2	B	79	THR	N-CA-CB	5.30	120.36	110.30	6	1
1	A	414	LYS	N-CA-CB	5.30	120.13	110.60	10	1
1	A	506	MET	CA-CB-CG	5.29	122.29	113.30	6	1
2	B	214	TYR	CZ-CE2-CD2	-5.29	115.04	119.80	14	1
2	C	245	GLU	N-CA-CB	-5.29	101.08	110.60	4	1
2	B	221	HIS	O-C-N	-5.29	114.24	122.70	12	1
1	A	325	THR	CA-CB-OG1	5.29	120.10	109.00	3	1
2	B	122	TYR	CD1-CE1-CZ	-5.28	115.05	119.80	3	1
2	C	181	LEU	CA-C-O	5.28	131.19	120.10	5	1
1	A	435	TYR	CZ-CE2-CD2	5.28	124.55	119.80	4	1
1	A	484	TRP	CG-CD2-CE3	5.28	138.65	133.90	10	2
2	C	222	LEU	CA-CB-CG	5.28	127.43	115.30	14	1
2	B	97	VAL	O-C-N	-5.27	114.26	122.70	4	1
1	A	421	TRP	CG-CD2-CE3	-5.27	129.15	133.90	11	1
2	B	224	THR	CA-CB-CG2	-5.27	105.02	112.40	5	1
2	C	200	LEU	CB-CG-CD1	5.27	119.96	111.00	15	1
2	B	172	ASP	CB-CA-C	5.27	120.93	110.40	7	1
1	A	449	TYR	CA-CB-CG	-5.27	103.40	113.40	5	1
2	B	68	THR	OG1-CB-CG2	-5.27	97.89	110.00	6	1
1	A	360	PHE	CD1-CG-CD2	-5.26	111.46	118.30	2	1
2	B	83	ARG	CD-NE-CZ	5.26	130.97	123.60	14	1
2	B	100	TYR	CG-CD2-CE2	-5.26	117.09	121.30	3	2
2	B	214	TYR	CG-CD1-CE1	-5.26	117.09	121.30	10	1
2	B	94	LYS	CB-CG-CD	5.25	125.26	111.60	4	1
2	B	251	PHE	CG-CD1-CE1	5.25	126.58	120.80	11	1
1	A	389	VAL	CA-CB-CG2	-5.25	103.02	110.90	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	C	71	PHE	CZ-CE2-CD2	-5.25	113.80	120.10	8	1
1	A	399	TYR	CD1-CE1-CZ	5.25	124.53	119.80	13	1
2	B	255	LEU	CB-CG-CD1	5.25	119.92	111.00	9	1
1	A	382	PHE	CD1-CE1-CZ	-5.25	113.80	120.10	10	1
1	A	336	PHE	CZ-CE2-CD2	-5.25	113.80	120.10	11	1
2	B	209	ALA	N-CA-CB	-5.25	102.75	110.10	4	1
1	A	444	ALA	CB-CA-C	-5.24	102.23	110.10	5	1
1	A	368	ILE	CB-CA-C	-5.24	101.11	111.60	14	1
1	A	429	PHE	CG-CD2-CE2	5.24	126.56	120.80	8	1
1	A	382	PHE	CG-CD1-CE1	5.23	126.56	120.80	10	1
2	C	206	ASN	N-CA-CB	5.23	120.02	110.60	10	1
2	C	234	GLU	CB-CA-C	5.23	120.86	110.40	1	1
2	C	217	LYS	N-CA-CB	5.23	120.02	110.60	14	1
2	B	130	TRP	CE2-CD2-CE3	5.23	124.97	118.70	13	1
2	B	153	ARG	O-C-N	-5.23	114.33	122.70	13	1
2	B	243	VAL	CG1-CB-CG2	-5.23	102.53	110.90	14	1
2	B	122	TYR	CG-CD2-CE2	5.23	125.48	121.30	8	1
1	A	419	LEU	CB-CG-CD2	-5.23	102.11	111.00	14	1
1	A	335	VAL	CA-CB-CG1	5.22	118.73	110.90	15	1
2	C	88	LYS	O-C-N	-5.22	114.35	122.70	4	1
1	A	449	TYR	N-CA-CB	5.22	119.99	110.60	8	1
2	C	95	ALA	O-C-N	-5.21	114.36	122.70	3	1
2	C	55	SER	O-C-N	-5.21	114.36	122.70	1	1
1	A	388	TRP	CG-CD2-CE3	-5.21	129.21	133.90	13	1
1	A	401	LYS	O-C-N	-5.21	114.37	122.70	3	2
2	B	115	TYR	CD1-CG-CD2	5.21	123.63	117.90	12	1
2	C	262	LEU	CB-CG-CD2	5.21	119.85	111.00	2	1
2	C	76	GLU	OE1-CD-OE2	5.21	129.55	123.30	15	1
2	C	129	LYS	CA-CB-CG	5.21	124.85	113.40	9	1
1	A	486	PHE	CG-CD1-CE1	5.20	126.52	120.80	4	1
1	A	466	SER	O-C-N	-5.20	114.38	122.70	12	1
1	A	340	TRP	CG-CD2-CE3	-5.20	129.22	133.90	1	1
1	A	330	ARG	CD-NE-CZ	5.20	130.88	123.60	9	1
1	A	368	ILE	CA-CB-CG2	-5.20	100.50	110.90	13	1
2	B	251	PHE	CB-CA-C	5.19	120.79	110.40	2	1
1	A	379	PHE	O-C-N	5.19	131.01	122.70	4	1
1	A	460	PRO	N-CD-CG	5.19	110.99	103.20	4	1
2	C	238	GLN	CA-CB-CG	5.19	124.83	113.40	9	1
1	A	390	PHE	CD1-CE1-CZ	5.19	126.33	120.10	5	1
2	C	204	LYS	CD-CE-NZ	-5.19	99.75	111.70	10	1
2	B	251	PHE	CD1-CE1-CZ	5.19	126.33	120.10	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	504	ASP	N-CA-CB	5.19	119.94	110.60	14	1
1	A	463	PRO	C-N-CA	5.19	134.67	121.70	12	1
1	A	338	GLU	OE1-CD-OE2	-5.19	117.08	123.30	10	1
2	B	178	VAL	C-N-CA	5.18	134.66	121.70	1	1
1	A	340	TRP	CB-CG-CD1	-5.18	120.26	127.00	11	1
2	B	199	ARG	N-CA-CB	-5.18	101.27	110.60	13	1
2	C	251	PHE	CD1-CG-CD2	5.18	125.04	118.30	1	1
2	C	97	VAL	O-C-N	-5.18	114.41	122.70	13	1
2	C	213	GLU	CB-CA-C	5.18	120.76	110.40	11	1
1	A	373	GLU	CG-CD-OE2	5.18	128.66	118.30	15	1
2	B	71	PHE	CG-CD1-CE1	-5.18	115.11	120.80	3	1
1	A	329	LEU	CB-CG-CD2	5.17	119.80	111.00	13	1
1	A	365	PRO	C-N-CA	5.17	134.63	121.70	13	1
2	C	126	PHE	CG-CD1-CE1	-5.17	115.11	120.80	13	1
1	A	342	TRP	CA-CB-CG	5.17	123.51	113.70	10	1
2	C	182	ARG	O-C-N	-5.16	114.44	122.70	10	1
1	A	478	TYR	CD1-CE1-CZ	-5.16	115.16	119.80	2	1
1	A	433	ASN	N-CA-CB	-5.16	101.32	110.60	12	1
2	C	120	GLU	OE1-CD-OE2	-5.16	117.11	123.30	3	1
2	C	105	GLN	N-CA-CB	-5.15	101.32	110.60	2	1
2	B	86	MET	O-C-N	-5.15	114.46	122.70	6	1
2	B	110	GLU	OE1-CD-OE2	-5.15	117.12	123.30	14	1
2	B	242	PRO	N-CD-CG	5.15	110.93	103.20	15	1
2	B	122	TYR	CA-CB-CG	-5.15	103.62	113.40	14	1
2	C	218	ALA	N-CA-CB	5.15	117.31	110.10	10	1
1	A	491	LEU	O-C-N	-5.14	114.47	122.70	4	1
1	A	405	GLU	O-C-N	-5.14	114.47	122.70	8	1
2	B	114	LEU	CB-CG-CD1	5.14	119.74	111.00	11	1
1	A	503	ARG	CD-NE-CZ	5.14	130.80	123.60	12	1
2	C	190	ASP	N-CA-CB	5.14	119.85	110.60	7	1
1	A	419	LEU	CB-CG-CD1	5.14	119.74	111.00	12	1
1	A	405	GLU	OE1-CD-OE2	-5.14	117.13	123.30	1	1
2	B	219	THR	OG1-CB-CG2	-5.13	98.19	110.00	2	1
2	B	101	LEU	CB-CG-CD1	-5.13	102.28	111.00	8	1
1	A	502	LEU	O-C-N	5.13	130.91	122.70	10	1
2	B	201	GLU	N-CA-CB	5.13	119.84	110.60	15	1
2	C	220	GLU	OE1-CD-OE2	-5.13	117.14	123.30	11	1
2	B	141	VAL	CA-CB-CG1	5.13	118.59	110.90	14	1
1	A	361	TRP	O-C-N	-5.12	114.50	122.70	4	1
2	B	88	LYS	O-C-N	-5.12	114.51	122.70	15	1
2	B	72	TRP	CE2-CD2-CG	-5.12	103.21	107.30	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	C	191	GLU	CA-CB-CG	5.12	124.66	113.40	12	1
2	B	113	GLU	CG-CD-OE2	5.12	128.53	118.30	15	1
2	B	241	LEU	N-CA-C	5.11	124.80	111.00	1	1
2	C	145	ARG	CG-CD-NE	-5.11	101.07	111.80	13	1
2	C	115	TYR	CB-CA-C	5.11	120.62	110.40	11	1
2	B	125	ASP	O-C-N	-5.10	114.54	122.70	3	1
1	A	430	PHE	CB-CA-C	-5.10	100.19	110.40	5	1
1	A	341	PHE	CG-CD1-CE1	5.10	126.41	120.80	8	1
1	A	464	ARG	O-C-N	-5.10	114.53	123.20	9	1
1	A	388	TRP	CE3-CZ3-CH2	-5.10	115.59	121.20	15	1
1	A	362	ARG	CG-CD-NE	-5.10	101.10	111.80	13	1
2	C	59	LYS	CD-CE-NZ	-5.09	99.98	111.70	9	1
2	B	249	VAL	O-C-N	-5.09	114.55	122.70	12	1
1	A	451	LYS	N-CA-CB	5.09	119.76	110.60	6	1
2	C	188	TYR	CB-CA-C	5.09	120.58	110.40	10	1
1	A	505	TRP	CE3-CZ3-CH2	-5.09	115.60	121.20	12	1
2	C	83	ARG	CD-NE-CZ	5.09	130.72	123.60	13	1
2	B	229	ALA	CB-CA-C	-5.08	102.47	110.10	2	1
2	C	224	THR	CA-CB-OG1	5.08	119.68	109.00	10	1
2	C	199	ARG	CD-NE-CZ	5.08	130.72	123.60	8	1
2	B	226	SER	O-C-N	-5.08	114.57	122.70	14	1
1	A	456	TRP	CH2-CZ2-CE2	-5.08	112.32	117.40	2	1
2	B	241	LEU	CA-C-N	5.08	131.32	117.10	6	1
2	B	104	PHE	CZ-CE2-CD2	-5.08	114.01	120.10	8	1
2	C	68	THR	O-C-N	-5.08	114.57	122.70	13	1
2	C	118	LYS	CA-CB-CG	5.08	124.56	113.40	10	1
2	B	206	ASN	N-CA-CB	5.07	119.73	110.60	3	1
1	A	437	ARG	CD-NE-CZ	5.07	130.70	123.60	4	1
2	B	72	TRP	CG-CD2-CE3	-5.07	129.34	133.90	3	1
2	B	233	LEU	O-C-N	-5.07	114.59	122.70	4	1
2	C	169	GLU	N-CA-CB	-5.07	101.48	110.60	6	1
2	C	173	ARG	CG-CD-NE	-5.07	101.15	111.80	9	1
2	C	188	TYR	CA-C-O	5.07	130.74	120.10	11	1
2	B	239	GLY	C-N-CA	5.07	134.37	121.70	13	1
2	C	203	LEU	CB-CG-CD2	5.07	119.61	111.00	3	1
2	B	88	LYS	N-CA-CB	5.07	119.72	110.60	7	1
2	C	126	PHE	CA-C-O	5.07	130.74	120.10	8	1
2	B	244	LEU	N-CA-CB	5.06	120.53	110.40	8	1
2	C	168	GLU	CG-CD-OE2	-5.06	108.17	118.30	12	1
1	A	359	GLN	N-CA-CB	5.06	119.71	110.60	13	1
2	C	238	GLN	CG-CD-OE1	-5.06	111.48	121.60	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	448	GLU	OE1-CD-OE2	-5.06	117.23	123.30	10	1
2	C	73	ASP	N-CA-CB	5.05	119.70	110.60	8	1
2	B	116	ARG	CB-CA-C	-5.05	100.29	110.40	11	1
2	B	156	LEU	CB-CG-CD1	5.05	119.59	111.00	15	2
1	A	376	ASP	C-N-CA	5.05	132.91	122.30	11	1
2	C	116	ARG	N-CA-CB	5.05	119.69	110.60	14	1
2	C	123	LEU	O-C-N	-5.05	114.62	122.70	7	1
1	A	479	LYS	CA-C-N	5.05	126.30	116.20	8	1
1	A	399	TYR	CZ-CE2-CD2	-5.05	115.25	119.80	14	1
2	C	61	ARG	CA-CB-CG	5.05	124.50	113.40	12	1
2	C	120	GLU	CB-CA-C	5.04	120.49	110.40	3	1
2	C	236	LEU	N-CA-CB	-5.04	100.31	110.40	10	2
2	B	199	ARG	CD-NE-CZ	5.04	130.66	123.60	13	1
2	C	142	GLU	N-CA-C	5.04	124.61	111.00	1	1
2	C	108	TRP	CD1-NE1-CE2	-5.04	104.46	109.00	8	1
2	B	124	ASP	CB-CA-C	5.04	120.48	110.40	3	1
1	A	421	TRP	CB-CA-C	5.04	120.48	110.40	4	1
2	C	260	LYS	O-C-N	-5.04	114.64	122.70	8	1
1	A	325	THR	O-C-N	-5.04	114.64	122.70	10	1
2	C	187	PRO	N-CA-CB	5.04	109.35	103.30	13	1
1	A	457	GLU	CA-C-O	5.04	130.68	120.10	4	1
2	C	80	GLU	N-CA-CB	-5.04	101.54	110.60	15	1
2	C	174	ALA	CB-CA-C	-5.03	102.55	110.10	2	1
1	A	457	GLU	O-C-N	-5.03	114.64	123.20	4	1
2	C	159	LEU	CB-CG-CD2	5.03	119.55	111.00	2	1
2	C	146	ALA	O-C-N	-5.03	114.65	122.70	5	1
1	A	392	GLU	CG-CD-OE1	5.03	128.36	118.30	6	1
1	A	434	LYS	CB-CA-C	5.03	120.46	110.40	6	1
2	B	58	SER	N-CA-CB	5.03	118.04	110.50	9	1
2	B	138	ARG	N-CA-CB	5.03	119.65	110.60	11	1
2	B	129	LYS	O-C-N	-5.03	114.66	122.70	12	1
2	C	170	MET	N-CA-CB	-5.02	101.56	110.60	6	1
1	A	456	TRP	CE2-CD2-CG	-5.02	103.28	107.30	12	1
2	C	185	LEU	O-C-N	-5.02	114.66	122.70	14	1
2	C	58	SER	CB-CA-C	-5.02	100.56	110.10	15	1
2	B	85	GLU	O-C-N	-5.02	114.67	122.70	8	1
2	B	146	ALA	N-CA-CB	-5.02	103.08	110.10	4	1
1	A	388	TRP	CB-CG-CD1	-5.02	120.48	127.00	7	1
1	A	393	ALA	O-C-N	-5.01	114.67	122.70	1	1
1	A	371	ALA	N-CA-CB	5.01	117.12	110.10	2	1
1	A	472	GLU	CG-CD-OE2	5.01	128.33	118.30	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	109	GLN	CB-CA-C	5.01	120.43	110.40	8	1
1	A	345	ARG	CD-NE-CZ	5.01	130.62	123.60	10	1
2	C	104	PHE	CB-CA-C	5.01	120.42	110.40	12	1
2	C	67	VAL	CA-CB-CG1	5.01	118.42	110.90	11	1
2	B	193	ARG	CG-CD-NE	-5.01	101.28	111.80	2	1
1	A	340	TRP	NE1-CE2-CZ2	5.01	135.91	130.40	9	1
2	C	63	GLN	CA-CB-CG	5.01	124.42	113.40	12	1
2	C	162	LYS	CB-CA-C	5.01	120.42	110.40	15	1
2	C	109	GLN	O-C-N	-5.01	114.69	122.70	8	1
1	A	448	GLU	C-N-CA	5.01	134.22	121.70	12	1
2	B	127	GLN	N-CA-CB	-5.01	101.59	110.60	15	1
2	C	158	GLU	OE1-CD-OE2	-5.00	117.30	123.30	5	1

There are no chirality outliers.

All unique planar outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Group	Models (Total)
1	A	478	TYR	Sidechain	11
1	A	503	ARG	Sidechain	10
2	B	100	TYR	Sidechain	8
1	A	374	ARG	Sidechain	7
1	A	476	TYR	Sidechain	7
2	B	145	ARG	Sidechain	7
2	C	115	TYR	Sidechain	7
1	A	428	TYR	Sidechain	6
1	A	483	TYR	Sidechain	6
2	B	137	TYR	Sidechain	6
2	B	214	TYR	Sidechain	6
2	B	237	ARG	Sidechain	6
2	C	100	TYR	Sidechain	6
2	C	116	ARG	Sidechain	6
2	B	115	TYR	Sidechain	6
1	A	399	TYR	Sidechain,Peptide	5
2	B	193	ARG	Sidechain	5
2	C	199	ARG	Sidechain	5
1	A	362	ARG	Sidechain	5
2	C	122	TYR	Sidechain	5
1	A	353	TYR	Sidechain	4
1	A	464	ARG	Sidechain	4
1	A	497	TYR	Sidechain	4

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Mol	Chain	Res	Type	Group	Models (Total)
2	C	237	ARG	Sidechain	4
2	B	122	TYR	Sidechain	4
1	A	339	ARG	Sidechain	4
1	A	390	PHE	Sidechain	4
2	B	83	ARG	Sidechain	4
2	B	199	ARG	Sidechain	4
2	B	258	TYR	Sidechain	4
2	C	210	ARG	Sidechain	4
1	A	408	ARG	Sidechain	4
1	A	436	TYR	Sidechain	4
2	C	138	ARG	Sidechain	4
2	B	138	ARG	Sidechain	3
1	A	372	TYR	Sidechain	3
1	A	431	ARG	Sidechain	3
2	C	83	ARG	Sidechain	3
2	C	145	ARG	Sidechain	3
2	C	214	TYR	Sidechain	3
1	A	343	ARG	Sidechain	3
2	C	195	ARG	Sidechain	3
1	A	429	PHE	Sidechain	3
1	A	330	ARG	Sidechain	3
2	B	210	ARG	Sidechain	3
2	C	61	ARG	Sidechain	3
1	A	435	TYR	Sidechain	3
2	C	175	ARG	Sidechain	3
2	B	116	ARG	Sidechain	3
2	C	251	PHE	Sidechain	3
1	A	420	PHE	Sidechain	2
1	A	486	PHE	Sidechain	2
2	B	153	ARG	Sidechain	2
2	B	157	HIS	Sidechain	2
2	C	177	HIS	Sidechain	2
2	B	104	PHE	Sidechain	2
2	B	171	ARG	Sidechain	2
2	C	182	ARG	Sidechain	2
1	A	508	CYS	Peptide	2
1	A	443	ARG	Sidechain	2
2	C	104	PHE	Sidechain	2
2	C	153	ARG	Sidechain	2
2	B	173	ARG	Sidechain	2
2	B	175	ARG	Sidechain	2
2	C	126	PHE	Sidechain	2

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Mol	Chain	Res	Type	Group	Models (Total)
2	C	188	TYR	Sidechain	2
1	A	402	HIS	Sidechain	2
2	B	182	ARG	Sidechain	2
1	A	437	ARG	Sidechain	2
2	B	188	TYR	Sidechain	2
2	B	195	ARG	Sidechain	2
1	A	387	HIS	Sidechain	2
2	C	215	HIS	Sidechain	2
1	A	449	TYR	Sidechain	1
1	A	490	LYS	Peptide	1
2	B	155	LYS	Mainchain	1
1	A	345	ARG	Sidechain	1
2	B	61	ARG	Sidechain	1
2	B	263	ASN	Peptide	1
2	C	193	ARG	Sidechain	1
2	C	71	PHE	Sidechain	1
2	C	157	HIS	Sidechain	1
1	A	381	PHE	Sidechain	1
2	B	57	PHE	Sidechain	1
2	C	235	ASP	Sidechain	1
2	B	126	PHE	Sidechain	1
2	B	251	PHE	Sidechain	1
2	C	57	PHE	Sidechain	1
2	C	73	ASP	Mainchain	1
1	A	382	PHE	Sidechain	1
1	A	474	PHE	Sidechain	1
2	C	137	TYR	Sidechain	1
1	A	379	PHE	Sidechain	1
1	A	469	GLY	Peptide	1
2	B	177	HIS	Sidechain	1
2	C	258	TYR	Sidechain	1
2	B	184	HIS	Sidechain	1
2	C	171	ARG	Sidechain	1
1	A	341	PHE	Sidechain	1
1	A	334	PHE	Sidechain	1
2	B	215	HIS	Sidechain	1
1	A	430	PHE	Sidechain	1
2	B	71	PHE	Sidechain	1

6.2 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 each 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 averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1637	1565	1563	3±1
2	B	1753	1745	1742	2±1
2	C	1753	1745	1742	2±2
3	A	2208	3456	3456	32±5
3	B	4600	7200	7200	53±7
3	C	3220	5040	5040	35±5
All	All	227595	311265	311145	1695

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 3.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:618:PX4:H12	3:A:644:PX4:H13	0.80	1.50	9	1
3:A:627:PX4:H3	3:A:627:PX4:O4	0.78	1.77	3	3
3:C:363:PX4:O4	3:C:363:PX4:H3	0.74	1.82	11	1
3:B:356:PX4:H9	3:C:303:PX4:O2	0.72	1.84	11	2
3:A:610:PX4:H12	3:A:629:PX4:O6	0.72	1.83	14	1
3:C:333:PX4:O3	3:C:360:PX4:H4	0.72	1.84	14	6
3:B:398:PX4:H4	3:B:399:PX4:O8	0.72	1.85	6	4
3:A:620:PX4:O4	3:A:620:PX4:H3	0.71	1.86	15	4
3:C:326:PX4:O4	3:C:345:PX4:H3	0.71	1.85	8	1
3:B:379:PX4:H4	3:B:391:PX4:O4	0.70	1.86	8	5
3:A:601:PX4:H6	3:B:381:PX4:O4	0.70	1.85	11	1
3:B:332:PX4:O3	3:B:332:PX4:H9	0.69	1.88	6	1
3:C:326:PX4:H14	3:C:345:PX4:H3	0.69	1.63	11	1
3:A:619:PX4:O4	3:A:619:PX4:H3	0.68	1.88	2	3
3:A:608:PX4:O1	3:A:608:PX4:H4	0.68	1.86	15	1
2:C:55:SER:N	2:C:58:SER:HG	0.68	1.85	5	4
3:B:309:PX4:H3	3:B:335:PX4:O2	0.68	1.88	4	3
3:C:309:PX4:O2	3:C:344:PX4:H5	0.68	1.88	5	1
3:B:399:PX4:H8	3:C:356:PX4:C6	0.68	2.18	11	1
3:B:312:PX4:H52	3:B:317:PX4:H8	0.68	1.63	3	1
1:A:511:GLY:OXT	3:A:648:PX4:H11	0.67	1.90	1	3
3:B:398:PX4:O4	3:B:398:PX4:H3	0.67	1.90	8	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:329:PX4:H4	3:B:341:PX4:O2	0.66	1.90	3	1
3:B:356:PX4:O4	3:B:370:PX4:H3	0.66	1.90	7	2
1:A:494:GLU:OE1	3:A:646:PX4:H4	0.66	1.90	7	2
3:A:609:PX4:O4	3:A:609:PX4:H7	0.66	1.91	15	1
3:B:399:PX4:H4	3:C:336:PX4:O6	0.66	1.91	10	1
1:A:494:GLU:OE2	3:A:643:PX4:H6	0.65	1.91	3	3
3:A:620:PX4:O6	3:A:620:PX4:H6	0.65	1.92	3	3
3:C:309:PX4:O2	3:C:344:PX4:H4	0.65	1.92	7	1
3:B:379:PX4:O4	3:B:385:PX4:H13	0.65	1.92	11	2
3:C:364:PX4:O2	3:C:369:PX4:H4	0.65	1.91	5	1
3:A:634:PX4:O1	3:A:634:PX4:H3	0.65	1.91	7	1
3:B:391:PX4:H3	3:B:391:PX4:O4	0.65	1.91	4	1
3:A:608:PX4:H4	3:B:394:PX4:O3	0.65	1.92	9	2
3:A:618:PX4:C5	3:A:644:PX4:H13	0.65	2.22	9	1
3:B:330:PX4:O1	3:B:330:PX4:H3	0.65	1.92	11	3
3:B:303:PX4:H13	3:B:303:PX4:H17	0.64	1.69	13	1
3:B:382:PX4:H13	3:B:382:PX4:O2	0.64	1.92	10	2
1:A:490:LYS:O	3:A:635:PX4:H4	0.64	1.92	8	5
1:A:457:GLU:OE2	3:A:636:PX4:H10	0.64	1.93	2	1
3:B:391:PX4:O1	3:B:395:PX4:H13	0.64	1.93	15	2
3:A:636:PX4:O4	3:A:640:PX4:H4	0.64	1.92	1	2
3:A:644:PX4:O4	3:A:648:PX4:H3	0.64	1.91	14	5
3:A:631:PX4:O1	3:A:631:PX4:H3	0.64	1.93	9	2
3:C:306:PX4:H4	3:C:348:PX4:O2	0.64	1.92	11	2
3:C:317:PX4:O4	3:C:355:PX4:H3	0.63	1.93	7	8
3:A:610:PX4:H7	3:C:368:PX4:O6	0.63	1.92	7	1
3:B:338:PX4:H4	3:B:357:PX4:O8	0.63	1.93	8	1
3:A:619:PX4:H4	3:A:631:PX4:O3	0.63	1.92	14	1
3:C:321:PX4:H8	3:C:356:PX4:O2	0.63	1.93	14	1
3:B:368:PX4:O2	3:B:368:PX4:H7	0.63	1.92	9	1
3:A:612:PX4:C6	3:A:612:PX4:H3	0.63	2.23	10	1
3:B:335:PX4:O4	3:B:360:PX4:H8	0.63	1.93	10	1
3:B:327:PX4:H3	3:B:352:PX4:O2	0.63	1.94	3	3
3:C:333:PX4:H3	3:C:360:PX4:O3	0.63	1.93	12	3
3:B:338:PX4:O2	3:B:363:PX4:H3	0.63	1.93	4	2
3:B:324:PX4:O2	3:B:352:PX4:H4	0.63	1.93	12	4
3:A:611:PX4:H4	3:C:337:PX4:O1	0.63	1.93	8	2
3:C:364:PX4:O1	3:C:364:PX4:H3	0.63	1.93	7	1
3:A:610:PX4:H3	3:A:615:PX4:O8	0.63	1.94	15	2
3:C:369:PX4:H9	3:C:369:PX4:O1	0.63	1.93	6	1
3:B:390:PX4:O3	3:B:395:PX4:H9	0.63	1.94	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:390:PX4:O4	3:B:395:PX4:H4	0.63	1.93	14	7
3:C:319:PX4:O4	3:C:323:PX4:H8	0.63	1.94	6	1
3:A:620:PX4:H4	3:A:632:PX4:O4	0.63	1.94	7	1
3:A:619:PX4:H5	3:A:635:PX4:O3	0.63	1.93	14	1
3:B:337:PX4:O4	3:B:337:PX4:H3	0.62	1.93	15	1
3:B:356:PX4:H16	3:B:370:PX4:H3	0.62	1.69	1	1
3:B:309:PX4:O2	3:B:335:PX4:H9	0.62	1.94	12	1
3:B:315:PX4:H3	3:B:328:PX4:O2	0.62	1.95	2	3
3:B:356:PX4:H7	3:C:303:PX4:O3	0.62	1.94	2	1
3:B:391:PX4:O1	3:B:391:PX4:H3	0.62	1.94	5	2
3:C:316:PX4:H3	3:C:333:PX4:O1	0.61	1.95	2	1
3:B:351:PX4:H3	3:B:379:PX4:O1	0.61	1.95	7	1
3:C:342:PX4:O2	3:C:368:PX4:H5	0.61	1.95	7	1
3:B:396:PX4:O8	3:B:396:PX4:H4	0.61	1.95	2	1
3:B:341:PX4:C1	3:B:364:PX4:H13	0.61	2.24	13	1
2:B:72:TRP:CZ2	3:B:305:PX4:H9	0.61	2.30	14	1
3:A:615:PX4:O1	3:A:629:PX4:H3	0.61	1.95	15	1
2:B:55:SER:N	2:B:58:SER:HG	0.61	1.93	13	7
3:B:305:PX4:O3	3:B:305:PX4:H7	0.61	1.95	5	3
3:C:319:PX4:H7	3:C:334:PX4:O1	0.61	1.94	14	3
3:C:327:PX4:H9	3:C:327:PX4:O3	0.61	1.96	3	1
3:B:322:PX4:H3	3:B:332:PX4:O6	0.61	1.95	7	1
3:C:307:PX4:O3	3:C:307:PX4:H9	0.61	1.95	10	2
3:B:339:PX4:O2	3:B:339:PX4:H4	0.60	1.96	9	2
3:A:605:PX4:O1	3:A:607:PX4:H4	0.60	1.97	13	1
3:B:340:PX4:O2	3:B:340:PX4:H4	0.60	1.96	2	2
3:A:612:PX4:H4	3:C:358:PX4:O2	0.60	1.95	14	1
3:B:364:PX4:H45	3:B:382:PX4:H57	0.60	1.71	1	1
3:B:329:PX4:O1	3:B:329:PX4:H9	0.60	1.95	3	1
3:B:373:PX4:H4	3:B:373:PX4:O4	0.60	1.97	5	4
3:A:604:PX4:H11	3:B:384:PX4:O2	0.60	1.97	10	1
3:B:308:PX4:O2	3:C:302:PX4:H4	0.60	1.96	8	2
3:B:379:PX4:H9	3:B:391:PX4:O2	0.60	1.96	9	6
3:B:313:PX4:O1	3:B:313:PX4:H4	0.60	1.97	11	1
3:A:623:PX4:O2	3:A:630:PX4:H4	0.60	1.97	1	1
3:B:392:PX4:O2	3:B:393:PX4:H10	0.60	1.97	7	2
3:B:304:PX4:H4	3:C:301:PX4:O2	0.59	1.96	9	2
3:B:327:PX4:O3	3:B:327:PX4:H9	0.59	1.97	6	1
3:B:341:PX4:H4	3:B:364:PX4:O1	0.59	1.97	10	1
3:A:626:PX4:O4	3:C:365:PX4:H11	0.59	1.97	2	1
3:B:390:PX4:O2	3:B:395:PX4:H7	0.59	1.97	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:384:PX4:H3	3:B:384:PX4:O1	0.59	1.97	15	3
3:B:342:PX4:O1	3:B:360:PX4:H11	0.59	1.98	5	1
3:A:625:PX4:O2	3:A:636:PX4:H6	0.59	1.97	7	1
3:B:386:PX4:H4	3:B:392:PX4:O1	0.59	1.98	6	1
3:B:379:PX4:O2	3:B:379:PX4:H10	0.59	1.96	9	1
3:A:612:PX4:H9	3:C:351:PX4:O1	0.59	1.97	1	1
3:B:378:PX4:O4	3:C:305:PX4:H11	0.59	1.97	3	1
3:C:345:PX4:O2	3:C:364:PX4:H4	0.59	1.97	10	1
3:B:352:PX4:H11	3:B:369:PX4:O8	0.59	1.97	11	2
3:A:618:PX4:H3	3:A:618:PX4:O1	0.59	1.97	14	1
3:A:609:PX4:H3	3:A:609:PX4:O1	0.59	1.98	1	1
3:A:638:PX4:O6	3:A:648:PX4:H4	0.59	1.96	14	9
3:B:379:PX4:H3	3:B:391:PX4:O2	0.59	1.98	3	1
3:A:614:PX4:O2	3:C:340:PX4:H3	0.59	1.96	8	2
3:A:645:PX4:O1	3:A:645:PX4:H7	0.59	1.98	9	2
3:A:627:PX4:O1	3:A:632:PX4:H9	0.59	1.97	14	1
3:A:605:PX4:O8	3:A:607:PX4:H4	0.59	1.98	9	6
3:B:323:PX4:H3	3:B:323:PX4:O4	0.59	1.98	4	1
3:B:352:PX4:H4	3:B:369:PX4:O8	0.59	1.96	15	1
3:B:390:PX4:H9	3:B:390:PX4:O1	0.59	1.96	2	2
3:A:627:PX4:O3	3:A:632:PX4:H7	0.59	1.98	6	1
3:A:633:PX4:H5	3:C:370:PX4:O6	0.59	1.97	9	2
3:B:337:PX4:O1	3:B:362:PX4:H7	0.59	1.97	12	1
3:B:314:PX4:O2	3:B:334:PX4:H6	0.59	1.97	15	1
3:B:345:PX4:O2	3:B:345:PX4:H4	0.59	1.97	12	2
3:C:326:PX4:C6	3:C:345:PX4:H3	0.59	2.28	11	2
3:A:623:PX4:O2	3:A:639:PX4:H7	0.58	1.98	3	1
3:B:392:PX4:O3	3:B:393:PX4:H4	0.58	1.98	7	1
3:C:330:PX4:H10	3:C:330:PX4:O2	0.58	1.97	14	1
3:C:341:PX4:O1	3:C:362:PX4:H4	0.58	1.98	13	2
3:A:641:PX4:H3	3:A:646:PX4:O2	0.58	1.98	7	1
3:B:342:PX4:O6	3:B:342:PX4:H6	0.58	1.97	9	1
3:B:337:PX4:H4	3:B:342:PX4:O3	0.58	1.97	11	1
3:A:626:PX4:H3	3:A:626:PX4:O4	0.58	1.98	5	1
3:A:603:PX4:O3	3:A:603:PX4:H13	0.58	1.98	8	1
3:B:325:PX4:H13	3:B:331:PX4:O1	0.58	1.99	10	2
3:C:318:PX4:O2	3:C:342:PX4:H4	0.58	1.97	12	3
3:B:369:PX4:O4	3:B:373:PX4:H5	0.58	1.97	10	1
3:B:348:PX4:O1	3:B:364:PX4:H11	0.58	1.98	14	1
3:C:306:PX4:H4	3:C:348:PX4:O3	0.58	1.99	1	1
3:C:321:PX4:O4	3:C:356:PX4:H3	0.58	1.98	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:359:PX4:H3	3:C:366:PX4:O2	0.58	1.99	12	2
3:B:390:PX4:H7	3:B:395:PX4:O8	0.58	1.97	7	1
1:A:491:LEU:HB2	3:A:635:PX4:H10	0.58	1.73	8	1
3:A:643:PX4:H10	3:A:643:PX4:O2	0.58	1.99	10	2
3:B:390:PX4:H11	3:B:393:PX4:O1	0.58	1.99	10	1
3:B:345:PX4:O2	3:B:352:PX4:H9	0.58	1.99	11	1
3:A:610:PX4:H6	3:C:368:PX4:O6	0.58	1.98	3	1
3:B:356:PX4:O2	3:B:356:PX4:H13	0.58	1.98	13	3
3:A:628:PX4:O1	3:A:644:PX4:H5	0.58	1.99	1	1
3:B:356:PX4:O3	3:B:356:PX4:H6	0.58	1.99	5	2
3:A:615:PX4:O1	3:A:629:PX4:H13	0.58	1.99	10	1
3:B:324:PX4:O8	3:B:352:PX4:H7	0.58	1.99	3	1
3:C:321:PX4:H5	3:C:356:PX4:O4	0.58	1.98	12	1
3:C:310:PX4:H5	3:C:358:PX4:O3	0.57	1.98	9	2
3:A:626:PX4:O2	3:A:626:PX4:H3	0.57	1.99	1	1
3:A:608:PX4:H7	3:B:394:PX4:H2	0.57	1.76	5	2
3:B:324:PX4:H3	3:B:325:PX4:O2	0.57	1.99	6	2
3:C:302:PX4:O2	3:C:302:PX4:H3	0.57	1.99	9	1
3:B:341:PX4:H10	3:B:371:PX4:O1	0.57	1.99	1	2
3:A:621:PX4:O8	3:A:637:PX4:H7	0.57	2.00	3	1
3:A:604:PX4:H6	3:A:604:PX4:O3	0.57	1.99	7	1
3:A:633:PX4:H3	3:B:400:PX4:O2	0.57	1.97	13	2
2:B:179:ASP:OD2	3:B:318:PX4:H8	0.57	1.99	14	1
3:A:630:PX4:O2	3:A:630:PX4:H6	0.57	1.99	1	1
3:B:385:PX4:O4	3:B:385:PX4:H3	0.57	1.99	13	5
3:B:342:PX4:O6	3:B:342:PX4:H13	0.57	2.00	4	3
3:A:604:PX4:O8	3:B:394:PX4:H11	0.57	1.98	6	2
3:C:355:PX4:O1	3:C:367:PX4:H3	0.57	1.99	12	1
3:A:638:PX4:O4	3:A:648:PX4:H9	0.57	1.99	1	1
3:A:629:PX4:O2	3:A:629:PX4:H4	0.57	1.97	8	2
3:A:617:PX4:O2	3:C:365:PX4:H3	0.57	2.00	15	1
3:A:615:PX4:H4	3:C:360:PX4:O6	0.57	1.99	1	2
3:B:331:PX4:H3	3:B:331:PX4:O2	0.57	2.00	3	1
3:B:399:PX4:H10	3:C:321:PX4:O2	0.57	2.00	5	1
3:A:627:PX4:O3	3:A:627:PX4:H12	0.57	1.99	5	5
3:B:325:PX4:H4	3:B:331:PX4:O4	0.57	1.99	13	2
2:C:265:GLN:HA	3:C:336:PX4:H12	0.57	1.75	11	1
3:C:366:PX4:O1	3:C:366:PX4:H4	0.57	1.99	4	1
3:B:353:PX4:O2	3:B:353:PX4:H4	0.57	1.99	5	1
3:B:364:PX4:O6	3:B:382:PX4:H4	0.57	2.00	8	1
3:B:378:PX4:H4	3:B:390:PX4:O2	0.57	2.00	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:366:PX4:H13	3:C:369:PX4:O4	0.57	2.00	1	1
3:A:619:PX4:H4	3:A:635:PX4:O6	0.57	2.00	5	3
3:B:343:PX4:H9	3:B:343:PX4:O3	0.57	2.00	13	2
3:B:334:PX4:C6	3:B:334:PX4:H12	0.57	2.29	6	2
3:C:314:PX4:O8	3:C:349:PX4:H7	0.57	1.98	12	1
3:B:311:PX4:O2	3:B:311:PX4:H4	0.57	1.99	13	1
3:B:355:PX4:O1	3:B:367:PX4:H4	0.57	1.99	3	1
3:A:605:PX4:H10	3:A:605:PX4:O3	0.57	2.00	6	2
3:C:310:PX4:O4	3:C:310:PX4:H3	0.57	2.00	8	1
3:C:349:PX4:O8	3:C:349:PX4:H3	0.57	2.00	10	1
3:A:610:PX4:H11	3:A:631:PX4:O8	0.56	1.99	8	2
3:A:621:PX4:O1	3:A:621:PX4:H3	0.56	2.00	11	1
3:A:615:PX4:O3	3:A:615:PX4:H6	0.56	2.00	15	2
3:C:352:PX4:O8	3:C:364:PX4:H4	0.56	1.99	2	1
3:B:326:PX4:O2	3:B:326:PX4:H4	0.56	2.00	6	3
3:B:345:PX4:O2	3:B:352:PX4:H8	0.56	1.99	15	3
3:A:646:PX4:O3	3:A:646:PX4:H7	0.56	2.00	1	5
2:C:261:LYS:O	3:C:336:PX4:H4	0.56	2.00	6	1
3:B:354:PX4:H13	3:B:354:PX4:O3	0.56	2.00	10	1
3:B:316:PX4:O3	3:B:316:PX4:H13	0.56	1.99	13	1
2:B:73:ASP:OD2	3:B:312:PX4:H3	0.56	1.99	14	1
3:C:359:PX4:O3	3:C:366:PX4:H4	0.56	1.99	6	2
3:C:338:PX4:H3	3:C:338:PX4:O1	0.56	2.01	7	1
3:A:608:PX4:H11	3:B:394:PX4:O1	0.56	2.00	13	1
3:B:329:PX4:H13	3:B:341:PX4:O2	0.56	2.00	1	1
3:A:611:PX4:O4	3:A:611:PX4:H4	0.56	1.99	2	1
3:B:309:PX4:O4	3:B:333:PX4:H4	0.56	2.00	6	2
3:A:630:PX4:O3	3:A:630:PX4:H13	0.56	2.01	5	1
3:B:303:PX4:H10	3:B:303:PX4:O3	0.56	2.00	10	1
3:B:328:PX4:O1	3:B:328:PX4:H3	0.56	1.99	10	1
3:B:392:PX4:O3	3:B:393:PX4:H3	0.56	2.01	10	1
3:A:601:PX4:H11	3:B:389:PX4:O6	0.56	1.99	12	1
3:B:341:PX4:H4	3:B:364:PX4:O3	0.56	2.01	12	1
3:B:351:PX4:H4	3:B:351:PX4:O2	0.56	2.00	1	2
3:B:324:PX4:O3	3:B:324:PX4:H6	0.56	2.00	3	1
3:C:303:PX4:O1	3:C:303:PX4:H12	0.56	2.00	11	1
3:B:398:PX4:H6	3:B:399:PX4:O1	0.56	2.00	13	1
3:C:342:PX4:H10	3:C:342:PX4:O2	0.56	2.01	15	1
3:A:639:PX4:H7	3:A:640:PX4:O2	0.56	2.01	1	3
3:B:317:PX4:H10	3:B:317:PX4:O3	0.56	2.01	10	1
3:B:380:PX4:O4	3:B:380:PX4:H7	0.56	2.01	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:617:PX4:O3	3:A:617:PX4:H12	0.56	2.01	15	1
3:B:308:PX4:H10	3:B:308:PX4:O3	0.56	2.01	15	1
3:A:604:PX4:H4	3:A:605:PX4:O2	0.56	2.00	9	2
3:A:644:PX4:O1	3:A:648:PX4:H13	0.56	2.00	6	5
3:A:601:PX4:H8	3:B:381:PX4:O4	0.56	2.01	13	1
3:B:304:PX4:O2	3:B:311:PX4:H3	0.56	2.01	5	4
3:B:376:PX4:H3	3:B:389:PX4:O1	0.56	2.01	1	2
3:B:361:PX4:H4	3:B:361:PX4:O2	0.56	2.01	6	3
3:B:364:PX4:O3	3:B:364:PX4:H12	0.56	2.01	12	3
3:B:325:PX4:H60	3:B:331:PX4:H45	0.56	1.78	9	1
3:B:357:PX4:O3	3:B:372:PX4:H8	0.56	1.99	9	1
3:C:347:PX4:H3	3:C:354:PX4:O1	0.56	1.99	11	1
3:B:383:PX4:O8	3:B:386:PX4:H8	0.55	2.02	2	1
3:B:336:PX4:O2	3:B:336:PX4:H4	0.55	1.99	11	1
3:A:632:PX4:H11	3:C:369:PX4:O1	0.55	2.01	15	1
3:C:333:PX4:H3	3:C:360:PX4:O1	0.55	2.02	2	2
3:C:312:PX4:H6	3:C:325:PX4:O2	0.55	2.00	3	2
3:B:341:PX4:O3	3:B:364:PX4:H4	0.55	2.01	7	2
3:A:602:PX4:H11	3:B:382:PX4:O4	0.55	2.02	6	1
3:B:366:PX4:O1	3:B:385:PX4:H8	0.55	2.01	7	2
3:B:378:PX4:H4	3:B:390:PX4:O8	0.55	2.01	8	1
3:B:309:PX4:O2	3:B:335:PX4:H4	0.55	2.02	10	1
3:B:306:PX4:H6	3:B:346:PX4:O1	0.55	2.01	12	1
3:C:339:PX4:H13	3:C:346:PX4:O2	0.55	2.02	1	2
3:C:359:PX4:O2	3:C:359:PX4:H4	0.55	2.02	15	1
3:B:386:PX4:O1	3:B:386:PX4:H3	0.55	2.01	11	2
3:C:342:PX4:O1	3:C:342:PX4:H3	0.55	2.01	2	1
3:A:627:PX4:O1	3:A:632:PX4:H8	0.55	2.02	4	2
3:B:390:PX4:C6	3:B:395:PX4:H4	0.55	2.31	12	2
1:A:343:ARG:HB3	1:A:350:MET:SD	0.55	2.41	13	1
3:B:304:PX4:O1	3:B:311:PX4:H9	0.55	2.02	13	1
3:C:306:PX4:O2	3:C:348:PX4:H4	0.55	2.02	14	1
3:C:334:PX4:O4	3:C:334:PX4:H4	0.55	2.01	14	1
3:B:399:PX4:H9	3:C:336:PX4:O6	0.55	2.02	4	1
3:B:334:PX4:O2	3:B:334:PX4:H4	0.55	2.02	11	2
3:A:624:PX4:H6	3:A:624:PX4:O4	0.55	2.02	9	1
3:A:633:PX4:H7	3:B:400:PX4:O1	0.55	2.00	12	1
3:C:309:PX4:C23	3:C:344:PX4:H10	0.55	2.31	5	1
3:B:309:PX4:H10	3:B:342:PX4:H14	0.55	1.79	10	2
3:A:620:PX4:O1	3:A:628:PX4:H3	0.55	2.02	1	2
1:A:490:LYS:O	3:A:635:PX4:H9	0.55	2.01	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:375:PX4:O3	3:B:375:PX4:H13	0.55	2.02	9	2
3:A:641:PX4:H4	3:A:646:PX4:O2	0.55	2.01	15	1
3:B:329:PX4:O3	3:B:329:PX4:H7	0.55	2.01	9	2
3:A:643:PX4:O3	3:A:643:PX4:H12	0.55	2.01	8	3
3:C:355:PX4:H4	3:C:355:PX4:O2	0.55	2.01	6	3
3:B:310:PX4:H4	3:B:328:PX4:O6	0.55	2.02	7	1
3:A:614:PX4:H9	3:A:619:PX4:O2	0.55	2.02	10	1
3:C:353:PX4:H9	3:C:353:PX4:O3	0.55	2.01	12	1
3:C:348:PX4:O4	3:C:348:PX4:H3	0.55	2.01	13	1
3:B:314:PX4:H9	3:B:314:PX4:O3	0.54	2.03	5	1
3:B:349:PX4:H9	3:B:353:PX4:O2	0.54	2.01	7	1
3:B:338:PX4:H4	3:B:377:PX4:O2	0.54	2.02	14	1
3:A:604:PX4:O2	3:B:394:PX4:H13	0.54	2.02	15	1
3:C:367:PX4:H3	3:C:367:PX4:O4	0.54	2.02	9	5
3:B:329:PX4:O2	3:B:353:PX4:H3	0.54	2.02	7	1
3:C:362:PX4:O4	3:C:362:PX4:H3	0.54	2.02	8	1
3:B:345:PX4:O1	3:B:373:PX4:H3	0.54	2.01	15	1
3:B:305:PX4:O2	3:B:305:PX4:H4	0.54	2.02	8	2
3:C:333:PX4:O3	3:C:360:PX4:H12	0.54	2.03	7	1
3:B:359:PX4:H9	3:B:359:PX4:H14	0.54	1.79	12	1
3:A:602:PX4:O2	3:B:372:PX4:H5	0.54	2.01	4	1
3:C:347:PX4:H11	3:C:354:PX4:O3	0.54	2.02	4	1
3:B:336:PX4:O2	3:B:365:PX4:H10	0.54	2.03	1	1
3:C:305:PX4:O4	3:C:305:PX4:H3	0.54	2.02	2	2
3:B:349:PX4:O3	3:B:349:PX4:H13	0.54	2.02	11	4
3:A:616:PX4:O3	3:A:616:PX4:H9	0.54	2.02	15	3
3:A:624:PX4:H3	3:A:639:PX4:O1	0.54	2.02	8	1
3:B:328:PX4:H10	3:B:328:PX4:O3	0.54	2.03	12	1
3:B:338:PX4:H9	3:B:357:PX4:O1	0.54	2.03	14	2
3:A:639:PX4:H5	3:A:640:PX4:O2	0.54	2.03	3	1
3:B:377:PX4:H4	3:B:377:PX4:O2	0.54	2.03	4	2
3:B:305:PX4:H3	3:B:340:PX4:O1	0.54	2.03	3	1
3:C:307:PX4:O1	3:C:307:PX4:H3	0.54	2.03	1	1
3:B:349:PX4:O2	3:B:371:PX4:H4	0.54	2.01	8	2
3:B:340:PX4:O4	3:B:356:PX4:H11	0.54	2.03	6	3
3:A:627:PX4:O8	3:A:632:PX4:H4	0.54	2.03	8	2
3:B:383:PX4:H14	3:B:383:PX4:H3	0.54	1.79	8	1
3:B:372:PX4:O1	3:B:372:PX4:H4	0.54	2.03	14	3
3:B:329:PX4:O2	3:B:353:PX4:H7	0.54	2.02	12	1
3:A:602:PX4:O1	3:A:602:PX4:H9	0.54	2.03	1	1
3:A:637:PX4:O8	3:A:646:PX4:H10	0.54	2.03	1	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:363:PX4:H3	3:C:363:PX4:O2	0.54	2.03	8	1
3:B:304:PX4:H9	3:B:304:PX4:O3	0.54	2.02	9	1
3:B:399:PX4:H11	3:C:321:PX4:O6	0.54	2.02	12	1
3:C:325:PX4:O2	3:C:325:PX4:H4	0.54	2.03	12	1
3:A:632:PX4:O4	3:A:632:PX4:H3	0.54	2.03	14	1
3:C:367:PX4:O8	3:C:367:PX4:H3	0.54	2.03	1	1
3:A:618:PX4:O2	3:A:618:PX4:H3	0.54	2.04	2	1
3:A:624:PX4:H8	3:A:630:PX4:O4	0.54	2.03	4	3
3:B:304:PX4:O1	3:B:311:PX4:H10	0.54	2.03	3	1
3:B:369:PX4:O3	3:B:369:PX4:H7	0.54	2.03	12	4
3:B:349:PX4:O2	3:B:349:PX4:H4	0.54	2.02	15	1
3:A:617:PX4:O1	3:A:617:PX4:H3	0.53	2.03	4	2
3:B:353:PX4:O3	3:B:353:PX4:H7	0.53	2.03	6	1
3:A:624:PX4:O8	3:A:624:PX4:H5	0.53	2.02	9	1
3:A:604:PX4:H11	3:B:384:PX4:O4	0.53	2.03	2	1
2:C:262:LEU:O	3:C:336:PX4:H6	0.53	2.02	7	2
3:B:337:PX4:H7	3:B:337:PX4:O3	0.53	2.03	9	1
3:B:352:PX4:O8	3:B:352:PX4:H6	0.53	2.03	12	2
3:B:360:PX4:H9	3:B:362:PX4:O8	0.53	2.03	11	1
3:A:644:PX4:H7	3:A:644:PX4:O2	0.53	2.03	12	1
1:A:492:LYS:HG3	3:A:643:PX4:H11	0.53	1.79	3	1
3:B:320:PX4:O3	3:B:320:PX4:H13	0.53	2.03	7	3
3:B:399:PX4:H11	3:C:321:PX4:O3	0.53	2.03	8	1
3:C:366:PX4:H12	3:C:366:PX4:O3	0.53	2.03	9	1
3:A:624:PX4:O4	3:A:624:PX4:H4	0.53	2.03	1	1
3:B:367:PX4:O1	3:B:367:PX4:H3	0.53	2.03	9	1
3:B:358:PX4:O2	3:B:365:PX4:H11	0.53	2.04	1	1
3:A:615:PX4:O3	3:A:621:PX4:H9	0.53	2.03	9	1
3:C:337:PX4:H9	3:C:346:PX4:O1	0.53	2.04	11	1
3:B:356:PX4:O4	3:B:370:PX4:H4	0.53	2.03	1	1
3:C:360:PX4:O3	3:C:360:PX4:H13	0.53	2.04	5	3
3:A:633:PX4:H11	3:C:370:PX4:O4	0.53	2.03	12	2
3:A:615:PX4:H11	3:C:360:PX4:O4	0.53	2.03	10	1
3:C:334:PX4:O2	3:C:334:PX4:H4	0.53	2.04	10	1
3:B:338:PX4:H12	3:B:377:PX4:O4	0.53	2.03	15	2
3:A:634:PX4:O6	3:A:634:PX4:H13	0.53	2.03	1	1
3:C:315:PX4:H13	3:C:331:PX4:O2	0.53	2.04	5	1
3:B:391:PX4:H12	3:B:394:PX4:O4	0.53	2.04	10	1
3:A:644:PX4:O2	3:A:648:PX4:H6	0.53	2.03	13	4
3:C:358:PX4:O4	3:C:358:PX4:H3	0.53	2.04	14	2
3:B:329:PX4:O3	3:B:353:PX4:H3	0.53	2.04	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:334:PX4:H3	3:C:347:PX4:O1	0.53	2.03	13	1
3:A:630:PX4:H9	3:A:639:PX4:O3	0.53	2.04	2	1
3:B:334:PX4:H10	3:B:334:PX4:O3	0.53	2.04	14	2
3:B:339:PX4:O1	3:B:355:PX4:H12	0.53	2.04	14	2
3:B:358:PX4:O8	3:B:365:PX4:H4	0.53	2.04	12	1
3:C:319:PX4:O1	3:C:319:PX4:H13	0.53	2.04	12	1
3:C:333:PX4:H7	3:C:360:PX4:O1	0.53	2.03	14	2
3:A:615:PX4:H11	3:C:360:PX4:O2	0.53	2.04	8	3
3:C:310:PX4:O3	3:C:310:PX4:H9	0.53	2.03	13	3
3:B:399:PX4:H13	3:C:356:PX4:O3	0.53	2.04	8	1
2:C:164:SER:OG	3:C:325:PX4:H4	0.53	2.03	8	1
3:A:616:PX4:H13	3:C:362:PX4:O1	0.53	2.03	13	1
3:A:616:PX4:O1	3:A:616:PX4:H3	0.53	2.04	13	1
3:B:311:PX4:H9	3:B:311:PX4:O1	0.52	2.05	4	1
3:B:366:PX4:O1	3:B:366:PX4:H3	0.52	2.04	6	4
3:C:310:PX4:H12	3:C:358:PX4:O1	0.52	2.04	12	1
3:B:316:PX4:O1	3:B:316:PX4:H13	0.52	2.03	1	1
3:A:624:PX4:H7	3:C:361:PX4:O6	0.52	2.04	2	1
3:B:344:PX4:H53	3:C:335:PX4:H43	0.52	1.81	12	1
3:B:380:PX4:O4	3:B:380:PX4:H9	0.52	2.04	13	1
3:A:643:PX4:C6	3:A:643:PX4:H4	0.52	2.34	3	1
3:B:344:PX4:H9	3:B:344:PX4:H14	0.52	1.81	5	1
3:B:369:PX4:O1	3:B:383:PX4:H5	0.52	2.04	5	1
3:A:641:PX4:H7	3:A:641:PX4:O1	0.52	2.05	8	1
3:B:338:PX4:O2	3:B:338:PX4:H13	0.52	2.03	9	1
3:B:357:PX4:O1	3:B:357:PX4:H3	0.52	2.04	9	1
3:C:321:PX4:H11	3:C:356:PX4:O3	0.52	2.04	14	1
3:A:640:PX4:H3	3:A:640:PX4:O4	0.52	2.04	2	2
3:C:339:PX4:H4	3:C:339:PX4:O4	0.52	2.03	1	1
3:B:309:PX4:O2	3:B:309:PX4:H4	0.52	2.04	2	2
2:B:201:GLU:OE1	3:B:313:PX4:H4	0.52	2.05	5	1
3:B:376:PX4:H10	3:B:376:PX4:O1	0.52	2.05	5	1
3:C:322:PX4:O2	3:C:322:PX4:H4	0.52	2.05	6	1
3:C:347:PX4:H4	3:C:354:PX4:O6	0.52	2.04	8	1
3:A:604:PX4:O1	3:A:607:PX4:H6	0.52	2.05	1	1
3:B:318:PX4:H10	3:B:318:PX4:O1	0.52	2.04	8	1
3:B:364:PX4:O2	3:B:364:PX4:H12	0.52	2.04	10	1
3:A:604:PX4:H4	3:A:605:PX4:O4	0.52	2.05	13	1
3:B:395:PX4:O3	3:B:395:PX4:H10	0.52	2.05	1	3
3:C:318:PX4:O1	3:C:318:PX4:H3	0.52	2.05	4	2
3:C:338:PX4:O3	3:C:338:PX4:H12	0.52	2.04	5	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:639:PX4:O6	3:A:640:PX4:H13	0.52	2.04	15	1
3:B:378:PX4:H6	3:B:378:PX4:O1	0.52	2.05	5	1
3:C:343:PX4:H3	3:C:343:PX4:O1	0.52	2.05	9	2
3:B:379:PX4:H9	3:B:391:PX4:O1	0.52	2.05	11	1
3:A:622:PX4:H3	3:A:622:PX4:O1	0.52	2.05	12	1
3:C:347:PX4:H10	3:C:347:PX4:O3	0.52	2.05	13	1
3:B:394:PX4:H3	3:B:394:PX4:O2	0.52	2.04	10	2
3:B:341:PX4:O3	3:B:364:PX4:H7	0.52	2.05	6	1
3:B:387:PX4:O1	3:B:387:PX4:H3	0.52	2.05	6	1
3:C:364:PX4:H10	3:C:364:PX4:O2	0.52	2.05	1	1
3:A:619:PX4:H5	3:A:631:PX4:O7	0.52	2.05	2	1
3:B:398:PX4:H13	3:B:399:PX4:O6	0.52	2.03	3	1
3:C:312:PX4:H10	3:C:312:PX4:O3	0.52	2.05	7	1
3:C:360:PX4:H5	3:C:365:PX4:O8	0.52	2.05	7	1
3:B:324:PX4:O2	3:B:352:PX4:H9	0.52	2.04	8	1
3:B:388:PX4:O1	3:B:388:PX4:H3	0.52	2.05	10	1
3:B:378:PX4:H12	3:B:393:PX4:H14	0.52	1.81	3	1
3:A:637:PX4:O4	3:A:646:PX4:H12	0.52	2.05	4	2
3:B:342:PX4:O1	3:B:360:PX4:H5	0.52	2.05	4	1
3:B:304:PX4:H7	3:B:304:PX4:O4	0.52	2.05	6	1
3:A:636:PX4:H7	3:A:636:PX4:O4	0.52	2.05	8	1
3:B:311:PX4:H4	3:B:344:PX4:O4	0.52	2.05	8	1
3:A:620:PX4:H7	3:A:632:PX4:O8	0.52	2.05	11	3
3:B:388:PX4:O1	3:B:393:PX4:H11	0.52	2.05	12	2
3:A:606:PX4:H4	3:B:386:PX4:O4	0.51	2.05	1	2
3:A:636:PX4:H9	3:A:636:PX4:O3	0.51	2.05	7	2
3:B:311:PX4:H7	3:B:311:PX4:O3	0.51	2.05	1	5
3:B:336:PX4:H11	3:B:358:PX4:C1	0.51	2.34	4	1
3:A:607:PX4:H5	3:A:608:PX4:O1	0.51	2.04	7	1
2:B:60:LEU:HD11	2:C:243:VAL:HG22	0.51	1.82	10	1
3:B:379:PX4:O8	3:B:385:PX4:H4	0.51	2.05	11	2
3:A:635:PX4:H6	3:A:635:PX4:O1	0.51	2.05	11	1
3:C:320:PX4:H13	3:C:322:PX4:O1	0.51	2.06	4	2
3:C:301:PX4:O1	3:C:301:PX4:H3	0.51	2.06	3	1
3:B:309:PX4:O6	3:B:333:PX4:H9	0.51	2.05	6	1
3:B:399:PX4:H8	3:C:356:PX4:H14	0.51	1.82	11	1
3:B:350:PX4:O1	3:B:350:PX4:H3	0.51	2.05	1	2
3:B:378:PX4:H5	3:B:390:PX4:O1	0.51	2.06	1	1
3:A:632:PX4:H3	3:A:632:PX4:O1	0.51	2.05	4	1
3:C:317:PX4:O1	3:C:317:PX4:H3	0.51	2.05	4	2
3:B:308:PX4:O2	3:C:302:PX4:H9	0.51	2.05	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:644:PX4:O2	3:A:644:PX4:H9	0.51	2.06	11	1
3:B:318:PX4:H10	3:B:318:PX4:O2	0.51	2.06	12	1
3:B:327:PX4:H12	3:B:352:PX4:O1	0.51	2.04	12	2
2:C:84:GLN:OE1	3:C:314:PX4:H3	0.51	2.05	14	1
3:A:619:PX4:H9	3:A:635:PX4:H18	0.51	1.81	5	1
3:B:390:PX4:H3	3:B:395:PX4:H9	0.51	1.82	7	1
3:B:366:PX4:O3	3:B:366:PX4:H6	0.51	2.06	12	2
1:A:494:GLU:OE1	3:A:646:PX4:H6	0.51	2.05	14	2
3:C:328:PX4:H15	3:C:328:PX4:H9	0.51	1.82	2	1
3:B:364:PX4:O8	3:B:382:PX4:H12	0.51	2.06	4	1
3:A:607:PX4:O3	3:A:607:PX4:H12	0.51	2.06	6	2
3:C:319:PX4:O1	3:C:323:PX4:H11	0.51	2.05	5	1
3:B:342:PX4:H7	3:B:342:PX4:O3	0.51	2.06	10	2
3:B:380:PX4:H4	3:B:380:PX4:O2	0.51	2.04	8	2
3:B:364:PX4:O8	3:B:382:PX4:H4	0.51	2.06	1	1
3:B:366:PX4:H4	3:B:367:PX4:O1	0.51	2.06	5	1
3:C:357:PX4:O3	3:C:357:PX4:H6	0.51	2.06	13	2
3:B:304:PX4:O4	3:B:304:PX4:H9	0.51	2.06	15	1
3:A:614:PX4:O1	3:C:368:PX4:H5	0.51	2.06	5	1
3:B:349:PX4:C1	3:B:371:PX4:H12	0.51	2.35	7	1
2:B:73:ASP:OD2	3:B:312:PX4:H6	0.51	2.05	10	1
3:A:607:PX4:H9	3:A:607:PX4:O2	0.51	2.05	13	2
3:A:614:PX4:O1	3:C:340:PX4:H3	0.51	2.06	12	1
3:C:367:PX4:O2	3:C:367:PX4:H7	0.51	2.06	12	1
3:A:636:PX4:H11	3:A:645:PX4:O5	0.51	2.06	3	1
3:A:629:PX4:O2	3:A:637:PX4:H5	0.51	2.04	9	2
3:C:339:PX4:O3	3:C:339:PX4:H7	0.51	2.06	12	2
3:B:330:PX4:H6	3:B:330:PX4:O3	0.51	2.05	12	1
3:B:386:PX4:H10	3:B:392:PX4:O1	0.51	2.05	13	1
3:B:308:PX4:H72	3:C:345:PX4:H71	0.51	1.82	7	1
3:B:399:PX4:H12	3:C:321:PX4:O6	0.51	2.05	10	1
3:B:352:PX4:H12	3:B:352:PX4:O3	0.51	2.06	14	1
3:C:316:PX4:H4	3:C:316:PX4:O2	0.51	2.06	15	1
3:B:343:PX4:O1	3:B:343:PX4:H3	0.51	2.06	2	1
3:C:347:PX4:O1	3:C:347:PX4:H3	0.51	2.06	7	1
3:A:625:PX4:H7	3:A:625:PX4:O3	0.51	2.06	9	2
3:C:332:PX4:O1	3:C:332:PX4:H10	0.50	2.06	6	1
3:B:304:PX4:O1	3:B:304:PX4:H3	0.50	2.06	7	1
3:B:356:PX4:O4	3:B:370:PX4:H5	0.50	2.06	13	1
3:C:338:PX4:H9	3:C:347:PX4:O2	0.50	2.06	1	1
3:B:321:PX4:O1	3:B:321:PX4:H3	0.50	2.07	2	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:633:PX4:H8	3:C:370:PX4:O2	0.50	2.04	4	1
3:B:304:PX4:O1	3:B:304:PX4:H9	0.50	2.05	5	1
3:B:389:PX4:O3	3:B:389:PX4:H7	0.50	2.06	6	1
3:C:365:PX4:O3	3:C:365:PX4:H9	0.50	2.06	8	1
3:B:365:PX4:H6	3:B:365:PX4:O3	0.50	2.06	9	2
3:B:392:PX4:C6	3:B:393:PX4:H9	0.50	2.36	14	1
3:A:616:PX4:O1	3:C:367:PX4:H11	0.50	2.06	15	1
3:B:341:PX4:O1	3:B:364:PX4:H4	0.50	2.07	2	5
3:C:347:PX4:H4	3:C:366:PX4:O1	0.50	2.06	2	1
3:A:620:PX4:H4	3:A:632:PX4:C6	0.50	2.36	8	2
3:C:350:PX4:H9	3:C:367:PX4:O2	0.50	2.06	10	1
3:B:390:PX4:H14	3:B:395:PX4:H4	0.50	1.82	12	1
3:B:326:PX4:H7	3:B:326:PX4:O3	0.50	2.06	15	2
3:C:321:PX4:O1	3:C:321:PX4:H3	0.50	2.07	2	1
3:C:364:PX4:O1	3:C:364:PX4:H12	0.50	2.05	2	1
3:C:360:PX4:H8	3:C:365:PX4:O8	0.50	2.07	4	1
3:A:614:PX4:H6	3:C:368:PX4:O2	0.50	2.07	11	1
3:A:633:PX4:H10	3:B:400:PX4:O2	0.50	2.06	4	1
3:B:350:PX4:O3	3:B:350:PX4:H12	0.50	2.06	4	1
3:C:368:PX4:O3	3:C:368:PX4:H12	0.50	2.07	4	1
3:B:347:PX4:H9	3:B:374:PX4:O2	0.50	2.07	5	1
3:B:306:PX4:H3	3:B:346:PX4:O4	0.50	2.06	6	1
3:A:602:PX4:H11	3:B:382:PX4:O1	0.50	2.06	7	1
3:B:324:PX4:H9	3:B:325:PX4:O1	0.50	2.06	7	1
3:C:329:PX4:O4	3:C:329:PX4:H3	0.50	2.07	14	2
3:B:337:PX4:H8	3:B:342:PX4:O3	0.50	2.07	8	1
3:A:620:PX4:H5	3:C:359:PX4:O8	0.50	2.07	9	1
3:C:338:PX4:O4	3:C:363:PX4:H4	0.50	2.06	9	1
3:A:615:PX4:O4	3:A:629:PX4:H3	0.50	2.06	12	1
3:A:615:PX4:O2	3:A:621:PX4:H9	0.50	2.07	2	1
3:C:359:PX4:C1	3:C:366:PX4:H4	0.50	2.36	5	1
3:A:617:PX4:H10	3:A:617:PX4:O4	0.50	2.07	7	1
3:C:338:PX4:O4	3:C:363:PX4:H7	0.50	2.07	7	1
3:C:333:PX4:O1	3:C:360:PX4:H10	0.50	2.06	8	2
3:B:351:PX4:H7	3:B:351:PX4:O3	0.50	2.07	10	3
3:B:329:PX4:H12	3:B:332:PX4:O1	0.50	2.07	5	1
3:B:387:PX4:H9	3:B:393:PX4:O1	0.50	2.07	14	1
3:B:308:PX4:O6	3:C:302:PX4:H6	0.50	2.07	15	1
3:A:620:PX4:H9	3:A:632:PX4:O1	0.50	2.07	8	2
3:A:630:PX4:H8	3:A:639:PX4:O3	0.50	2.07	4	1
3:B:349:PX4:O3	3:B:371:PX4:H12	0.50	2.07	8	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:338:PX4:O3	3:B:338:PX4:H6	0.50	2.06	5	1
3:B:351:PX4:C3	3:B:361:PX4:H6	0.50	2.36	5	1
3:A:608:PX4:H9	3:B:394:PX4:O1	0.50	2.07	6	1
3:B:377:PX4:O1	3:B:377:PX4:H4	0.50	2.06	9	1
3:C:332:PX4:H12	3:C:332:PX4:O4	0.50	2.06	9	1
3:B:342:PX4:O7	3:B:342:PX4:H6	0.50	2.07	12	1
3:B:368:PX4:H10	3:B:368:PX4:O2	0.50	2.07	15	1
3:B:354:PX4:O2	3:B:354:PX4:H13	0.49	2.07	1	1
3:B:352:PX4:H3	3:B:352:PX4:O4	0.49	2.07	9	4
3:B:366:PX4:H4	3:B:367:PX4:O4	0.49	2.06	14	2
3:C:327:PX4:O1	3:C:327:PX4:H3	0.49	2.07	12	1
3:B:383:PX4:C1	3:B:386:PX4:H11	0.49	2.37	3	1
3:A:604:PX4:O2	3:B:394:PX4:H5	0.49	2.07	5	1
3:B:314:PX4:O2	3:B:314:PX4:H7	0.49	2.07	6	2
3:B:383:PX4:H3	3:B:383:PX4:C6	0.49	2.36	8	1
2:B:263:ASN:OD1	3:B:325:PX4:H5	0.49	2.07	11	1
3:C:323:PX4:O3	3:C:323:PX4:H12	0.49	2.08	11	1
3:A:611:PX4:H3	3:C:337:PX4:O1	0.49	2.08	4	1
3:B:336:PX4:O3	3:B:365:PX4:H10	0.49	2.06	5	1
3:B:338:PX4:O4	3:B:338:PX4:H13	0.49	2.06	7	2
3:B:371:PX4:O3	3:B:371:PX4:H6	0.49	2.07	10	2
3:C:326:PX4:O1	3:C:326:PX4:H4	0.49	2.08	11	1
3:A:637:PX4:O6	3:A:646:PX4:H8	0.49	2.07	13	1
3:A:604:PX4:H4	3:A:605:PX4:H14	0.49	1.82	15	1
3:A:619:PX4:H9	3:A:631:PX4:O4	0.49	2.08	15	1
3:A:647:PX4:H10	3:A:647:PX4:H14	0.49	1.84	1	1
3:C:370:PX4:H10	3:C:370:PX4:O3	0.49	2.07	7	3
3:A:614:PX4:O1	3:A:614:PX4:H3	0.49	2.07	9	1
2:C:84:GLN:OE1	3:C:314:PX4:H7	0.49	2.07	11	1
3:A:627:PX4:O2	3:A:642:PX4:H13	0.49	2.07	14	1
3:A:612:PX4:H3	3:C:351:PX4:O4	0.49	2.07	1	1
3:A:620:PX4:O4	3:A:620:PX4:C2	0.49	2.58	5	2
3:C:333:PX4:O3	3:C:333:PX4:H7	0.49	2.08	4	1
1:A:495:PRO:HD3	3:A:643:PX4:H7	0.49	1.83	6	1
3:A:610:PX4:H4	3:A:615:PX4:O8	0.49	2.07	7	1
3:A:611:PX4:O2	3:C:351:PX4:H10	0.49	2.07	12	1
3:B:341:PX4:O3	3:B:364:PX4:H6	0.49	2.07	14	1
3:C:362:PX4:O3	3:C:362:PX4:H12	0.49	2.07	6	3
3:A:611:PX4:H10	3:A:611:PX4:O3	0.49	2.08	5	1
3:C:347:PX4:O3	3:C:347:PX4:H12	0.49	2.07	10	2
3:C:309:PX4:O3	3:C:309:PX4:H7	0.49	2.08	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:368:PX4:O2	3:B:368:PX4:H4	0.49	2.07	1	1
3:B:374:PX4:O2	3:B:374:PX4:H4	0.49	2.07	1	1
2:B:73:ASP:CG	3:B:312:PX4:H3	0.49	2.27	2	1
3:A:607:PX4:O2	3:A:607:PX4:H12	0.49	2.07	4	1
3:A:621:PX4:H3	3:A:621:PX4:O4	0.49	2.08	4	1
3:A:609:PX4:H66	3:A:646:PX4:H42	0.49	1.84	7	1
3:C:328:PX4:O2	3:C:328:PX4:H3	0.49	2.07	8	1
3:C:307:PX4:H13	3:C:339:PX4:O3	0.49	2.08	9	1
3:C:317:PX4:O4	3:C:355:PX4:H13	0.49	2.08	12	3
3:C:364:PX4:O2	3:C:369:PX4:H3	0.49	2.07	10	1
2:C:153:ARG:HH11	2:C:157:HIS:CE1	0.49	2.25	11	1
2:C:262:LEU:O	3:C:336:PX4:H4	0.49	2.07	11	1
3:C:364:PX4:O1	3:C:369:PX4:H3	0.49	2.08	11	2
3:A:634:PX4:P1	3:A:644:PX4:H6	0.49	2.47	13	1
3:A:619:PX4:H4	3:A:631:PX4:H2	0.49	1.84	15	1
3:A:614:PX4:H4	3:A:619:PX4:O1	0.49	2.08	1	1
3:B:309:PX4:O1	3:B:333:PX4:H12	0.49	2.08	2	1
3:A:639:PX4:H11	3:A:640:PX4:O3	0.49	2.08	3	1
2:C:84:GLN:OE1	3:C:314:PX4:H13	0.49	2.07	4	2
3:C:316:PX4:H10	3:C:316:PX4:P1	0.49	2.47	5	1
3:C:328:PX4:H8	3:C:350:PX4:O2	0.49	2.08	11	1
3:C:333:PX4:H10	3:C:360:PX4:O4	0.49	2.08	11	1
3:B:338:PX4:O4	3:B:338:PX4:H6	0.49	2.08	13	1
3:C:311:PX4:O3	3:C:311:PX4:H6	0.49	2.08	4	4
3:C:323:PX4:H10	3:C:323:PX4:H14	0.49	1.84	6	1
3:A:644:PX4:O2	3:A:644:PX4:H3	0.49	2.08	7	1
3:B:338:PX4:H9	3:B:357:PX4:O2	0.49	2.08	8	1
3:B:330:PX4:H3	3:B:330:PX4:O2	0.49	2.07	13	1
3:C:362:PX4:H3	3:C:362:PX4:O1	0.49	2.07	15	1
3:C:340:PX4:H4	3:C:340:PX4:O2	0.49	2.08	9	1
3:B:310:PX4:O8	3:B:342:PX4:H11	0.49	2.08	10	2
3:A:604:PX4:H8	3:B:384:PX4:O2	0.49	2.07	12	1
3:B:354:PX4:O4	3:B:354:PX4:H6	0.49	2.08	13	1
3:A:615:PX4:O1	3:A:629:PX4:H9	0.49	2.07	14	1
3:C:360:PX4:H11	3:C:365:PX4:O8	0.48	2.07	1	1
3:B:396:PX4:H8	3:C:342:PX4:O4	0.48	2.08	2	1
3:B:342:PX4:H17	3:B:342:PX4:H4	0.48	1.85	3	1
3:A:624:PX4:H3	3:C:361:PX4:O6	0.48	2.07	5	1
3:B:329:PX4:H10	3:B:332:PX4:O3	0.48	2.08	5	1
3:B:335:PX4:O2	3:B:360:PX4:H8	0.48	2.08	6	1
3:A:642:PX4:O2	3:A:647:PX4:H4	0.48	2.08	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:327:PX4:H4	3:B:327:PX4:O1	0.48	2.08	11	1
3:B:339:PX4:O3	3:B:355:PX4:H12	0.48	2.08	13	1
3:C:360:PX4:H9	3:C:365:PX4:O1	0.48	2.07	8	2
3:A:647:PX4:H13	3:A:648:PX4:O8	0.48	2.08	11	1
3:A:601:PX4:H20	3:A:604:PX4:H7	0.48	1.83	12	1
3:A:606:PX4:O3	3:A:606:PX4:H9	0.48	2.07	13	1
3:A:617:PX4:H9	3:C:353:PX4:O3	0.48	2.07	13	1
3:B:349:PX4:O2	3:B:371:PX4:H12	0.48	2.08	15	1
3:A:611:PX4:O4	3:A:611:PX4:H9	0.48	2.06	1	1
3:B:339:PX4:H10	3:B:339:PX4:O3	0.48	2.08	3	3
3:A:614:PX4:O3	3:C:368:PX4:H8	0.48	2.07	5	1
3:B:369:PX4:O2	3:B:383:PX4:H10	0.48	2.08	7	1
3:C:310:PX4:H10	3:C:310:PX4:H14	0.48	1.85	7	1
3:C:348:PX4:O3	3:C:348:PX4:H12	0.48	2.08	9	3
3:B:346:PX4:O1	3:B:363:PX4:H12	0.48	2.07	14	1
3:C:306:PX4:O3	3:C:306:PX4:H6	0.48	2.08	2	2
3:B:308:PX4:H10	3:B:323:PX4:O2	0.48	2.09	6	1
3:C:353:PX4:O3	3:C:353:PX4:C4	0.48	2.60	12	1
3:B:370:PX4:H47	3:B:370:PX4:H6	0.48	1.84	14	1
3:A:604:PX4:O1	3:B:394:PX4:H8	0.48	2.08	4	1
3:B:357:PX4:H12	3:B:357:PX4:O3	0.48	2.09	5	2
2:C:86:MET:CG	3:C:314:PX4:H19	0.48	2.39	5	1
3:C:322:PX4:H10	3:C:322:PX4:O3	0.48	2.08	11	3
3:A:620:PX4:O2	3:A:638:PX4:H9	0.48	2.09	7	1
3:B:308:PX4:O2	3:B:308:PX4:H3	0.48	2.09	9	1
3:B:341:PX4:O4	3:B:364:PX4:H3	0.48	2.09	10	2
3:A:621:PX4:O2	3:A:637:PX4:H3	0.48	2.09	11	1
3:C:348:PX4:H6	3:C:370:PX4:O8	0.48	2.09	11	1
2:C:145:ARG:HG3	3:C:320:PX4:H10	0.48	1.84	12	1
3:A:640:PX4:H10	3:A:647:PX4:O2	0.48	2.09	13	1
3:B:332:PX4:O1	3:B:332:PX4:H3	0.48	2.08	13	2
3:C:349:PX4:O2	3:C:353:PX4:H4	0.48	2.08	2	1
3:B:318:PX4:O2	3:B:334:PX4:H3	0.48	2.08	3	2
3:C:369:PX4:O3	3:C:369:PX4:H7	0.48	2.08	5	1
3:C:346:PX4:H10	3:C:346:PX4:O3	0.48	2.09	6	2
3:C:310:PX4:H11	3:C:340:PX4:O2	0.48	2.09	12	1
3:A:605:PX4:O8	3:A:607:PX4:H13	0.48	2.09	15	1
3:B:398:PX4:O3	3:B:400:PX4:H4	0.48	2.08	15	1
3:B:324:PX4:H37	3:C:356:PX4:H70	0.48	1.85	2	1
3:B:305:PX4:H10	3:B:340:PX4:O4	0.48	2.09	3	1
3:B:306:PX4:H3	3:B:346:PX4:O1	0.48	2.09	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:336:PX4:H11	3:B:358:PX4:H2	0.48	1.85	4	1
3:A:604:PX4:H3	3:A:605:PX4:O2	0.48	2.09	5	1
3:A:621:PX4:H2	3:C:365:PX4:H9	0.48	1.84	10	1
3:B:388:PX4:H9	3:B:388:PX4:O3	0.48	2.09	13	2
3:B:303:PX4:O5	3:B:303:PX4:C23	0.48	2.61	14	1
3:C:326:PX4:H7	3:C:326:PX4:O3	0.48	2.09	15	1
3:C:357:PX4:H13	3:C:357:PX4:O2	0.48	2.08	15	1
3:A:636:PX4:H8	3:A:645:PX4:H22	0.48	1.85	1	1
3:C:314:PX4:O4	3:C:314:PX4:H3	0.48	2.08	2	1
3:B:360:PX4:H11	3:B:362:PX4:H3	0.48	1.86	3	1
3:C:310:PX4:H11	3:C:358:PX4:O2	0.48	2.09	9	2
3:A:627:PX4:O1	3:A:632:PX4:H4	0.48	2.08	6	1
3:B:309:PX4:O1	3:B:333:PX4:H10	0.48	2.08	6	1
3:B:372:PX4:O3	3:B:382:PX4:H11	0.48	2.09	9	1
3:B:335:PX4:O1	3:B:360:PX4:H11	0.48	2.09	10	1
3:A:604:PX4:H5	3:B:384:PX4:O2	0.48	2.09	13	2
3:B:319:PX4:O8	3:B:319:PX4:H7	0.48	2.08	2	1
3:A:614:PX4:H10	3:A:619:PX4:O2	0.48	2.09	9	1
3:B:336:PX4:O4	3:B:336:PX4:H4	0.48	2.08	2	1
3:A:632:PX4:O3	3:A:632:PX4:H12	0.48	2.08	3	1
3:B:318:PX4:O3	3:B:318:PX4:H9	0.48	2.09	4	1
3:B:323:PX4:H12	3:B:323:PX4:O3	0.48	2.08	11	2
3:B:351:PX4:H12	3:B:379:PX4:O1	0.48	2.07	14	1
3:B:400:PX4:O3	3:C:370:PX4:H6	0.47	2.09	1	1
3:B:363:PX4:O2	3:B:363:PX4:H4	0.47	2.09	4	1
3:A:611:PX4:O2	3:C:351:PX4:H4	0.47	2.08	9	2
3:A:625:PX4:H6	3:A:625:PX4:C6	0.47	2.39	8	1
3:C:342:PX4:O3	3:C:342:PX4:H12	0.47	2.08	9	2
3:B:390:PX4:O3	3:B:395:PX4:H7	0.47	2.09	10	1
3:A:630:PX4:O3	3:A:630:PX4:H6	0.47	2.09	11	1
3:B:392:PX4:O2	3:B:393:PX4:H9	0.47	2.09	11	1
3:C:326:PX4:O2	3:C:345:PX4:H6	0.47	2.08	11	1
3:C:340:PX4:H10	3:C:340:PX4:O3	0.47	2.09	13	1
2:B:73:ASP:OD1	3:B:312:PX4:H12	0.47	2.10	1	1
3:A:623:PX4:O4	3:A:623:PX4:H4	0.47	2.09	10	3
3:A:608:PX4:H3	3:A:608:PX4:O1	0.47	2.09	5	2
2:B:73:ASP:OD1	3:B:312:PX4:H3	0.47	2.08	5	1
3:B:302:PX4:O1	3:B:307:PX4:H10	0.47	2.09	5	1
3:A:601:PX4:O3	3:A:601:PX4:H9	0.47	2.09	9	4
3:B:336:PX4:H7	3:B:336:PX4:H14	0.47	1.87	8	1
3:C:357:PX4:O3	3:C:357:PX4:H13	0.47	2.10	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:355:PX4:H17	3:C:367:PX4:H4	0.47	1.86	14	1
3:C:329:PX4:H7	3:C:329:PX4:O1	0.47	2.09	2	1
3:C:340:PX4:H10	3:C:340:PX4:O1	0.47	2.09	5	1
3:B:349:PX4:H3	3:B:353:PX4:O1	0.47	2.09	9	1
3:B:318:PX4:O3	3:B:334:PX4:H13	0.47	2.10	10	1
3:C:351:PX4:H6	3:C:351:PX4:O1	0.47	2.09	12	1
3:B:374:PX4:H3	3:B:374:PX4:O1	0.47	2.08	13	1
3:B:376:PX4:H12	3:B:376:PX4:O2	0.47	2.10	13	1
3:B:330:PX4:H4	3:B:330:PX4:O1	0.47	2.09	14	1
3:B:378:PX4:H8	3:B:390:PX4:O2	0.47	2.09	1	1
3:A:624:PX4:H11	3:A:630:PX4:O2	0.47	2.10	3	1
3:B:312:PX4:H7	3:B:312:PX4:O3	0.47	2.09	5	1
3:B:356:PX4:O2	3:B:370:PX4:H9	0.47	2.10	6	1
3:B:388:PX4:O2	3:B:393:PX4:H11	0.47	2.09	9	1
3:B:388:PX4:O4	3:B:393:PX4:H5	0.47	2.09	12	2
3:C:330:PX4:O1	3:C:357:PX4:H10	0.47	2.08	15	1
2:C:153:ARG:O	2:C:157:HIS:CD2	0.47	2.67	5	2
3:B:347:PX4:O2	3:B:354:PX4:H5	0.47	2.09	5	1
3:C:369:PX4:O2	3:C:369:PX4:H4	0.47	2.09	11	2
1:A:493:VAL:O	3:A:643:PX4:H7	0.47	2.09	10	1
3:C:316:PX4:O1	3:C:316:PX4:H12	0.47	2.09	12	1
3:B:341:PX4:O3	3:B:341:PX4:H12	0.47	2.10	14	1
3:C:355:PX4:O5	3:C:367:PX4:H4	0.47	2.09	15	1
3:A:618:PX4:O1	3:B:400:PX4:H4	0.47	2.09	3	1
3:B:344:PX4:H9	3:B:344:PX4:C6	0.47	2.40	5	1
3:C:303:PX4:H10	3:C:303:PX4:O3	0.47	2.10	6	1
3:A:619:PX4:H3	3:A:631:PX4:H14	0.47	1.86	13	1
3:A:619:PX4:H10	3:A:635:PX4:O4	0.47	2.08	1	1
3:B:387:PX4:O3	3:B:387:PX4:H9	0.47	2.10	1	1
3:C:347:PX4:H6	3:C:354:PX4:O8	0.47	2.10	1	2
3:A:627:PX4:H3	3:A:627:PX4:C6	0.47	2.38	3	1
3:B:378:PX4:C6	3:C:305:PX4:H11	0.47	2.39	3	1
3:C:309:PX4:O2	3:C:309:PX4:H4	0.47	2.10	3	2
3:A:619:PX4:H9	3:A:635:PX4:O4	0.47	2.09	6	1
3:A:640:PX4:O3	3:A:640:PX4:H6	0.47	2.09	6	3
3:C:354:PX4:O1	3:C:354:PX4:H3	0.47	2.09	7	1
3:C:309:PX4:H13	3:C:312:PX4:O1	0.47	2.09	8	1
3:B:351:PX4:H11	3:B:361:PX4:H7	0.47	1.86	10	1
3:A:618:PX4:O1	3:B:400:PX4:H11	0.47	2.10	13	1
1:A:492:LYS:HB2	3:A:643:PX4:H8	0.47	1.87	14	1
3:C:314:PX4:H3	3:C:314:PX4:O1	0.47	2.10	3	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:306:PX4:O2	3:C:306:PX4:H13	0.47	2.10	5	1
3:C:337:PX4:H4	3:C:346:PX4:O3	0.47	2.10	6	1
3:A:606:PX4:H3	3:B:386:PX4:O1	0.47	2.09	8	1
3:C:336:PX4:O3	3:C:336:PX4:H9	0.47	2.09	14	1
3:B:336:PX4:O3	3:B:336:PX4:H13	0.47	2.10	15	1
3:C:315:PX4:H7	3:C:315:PX4:O3	0.47	2.10	3	2
3:C:309:PX4:O4	3:C:344:PX4:H8	0.47	2.09	5	1
3:B:308:PX4:O2	3:B:308:PX4:H12	0.47	2.09	6	1
3:B:308:PX4:H12	3:B:323:PX4:O2	0.47	2.10	10	1
3:B:334:PX4:H4	3:B:334:PX4:O4	0.47	2.10	15	1
3:B:388:PX4:O6	3:B:393:PX4:H5	0.47	2.10	1	1
3:C:325:PX4:O4	3:C:325:PX4:H4	0.47	2.10	5	1
3:B:316:PX4:O3	3:B:316:PX4:C5	0.47	2.63	13	1
3:B:397:PX4:H5	2:C:120:GLU:OE1	0.47	2.09	14	1
3:B:392:PX4:O1	3:B:392:PX4:H3	0.46	2.10	7	2
3:B:397:PX4:O1	3:B:397:PX4:H3	0.46	2.09	9	1
3:B:352:PX4:H14	3:B:352:PX4:H3	0.46	1.86	13	1
3:B:368:PX4:H71	3:C:345:PX4:H72	0.46	1.87	13	1
3:A:612:PX4:H3	3:C:351:PX4:O1	0.46	2.10	15	1
3:A:624:PX4:O4	3:A:624:PX4:H3	0.46	2.10	15	1
3:B:386:PX4:H4	3:B:392:PX4:O2	0.46	2.10	2	1
3:B:352:PX4:O4	3:B:352:PX4:H13	0.46	2.10	11	1
3:B:325:PX4:H8	3:B:331:PX4:O4	0.46	2.10	2	1
3:C:325:PX4:O3	3:C:325:PX4:H10	0.46	2.11	5	3
3:A:647:PX4:H11	3:A:648:PX4:O8	0.46	2.10	3	1
3:B:318:PX4:H12	3:B:318:PX4:O3	0.46	2.11	8	3
1:A:495:PRO:O	3:A:646:PX4:H5	0.46	2.10	7	1
3:C:341:PX4:H4	3:C:341:PX4:O2	0.46	2.10	7	2
3:A:629:PX4:O2	3:A:637:PX4:H11	0.46	2.11	8	1
3:B:370:PX4:O3	3:B:370:PX4:H13	0.46	2.10	8	3
3:B:306:PX4:H10	3:B:346:PX4:O1	0.46	2.09	9	1
3:B:379:PX4:O3	3:B:379:PX4:H12	0.46	2.09	9	1
3:B:396:PX4:H4	3:B:396:PX4:O2	0.46	2.11	9	1
3:C:318:PX4:H5	3:C:324:PX4:O1	0.46	2.11	11	1
3:C:330:PX4:H12	3:C:330:PX4:O3	0.46	2.10	11	1
3:C:338:PX4:H9	3:C:338:PX4:O3	0.46	2.10	15	1
3:B:340:PX4:O4	3:B:340:PX4:H4	0.46	2.09	1	1
3:A:642:PX4:H3	3:A:647:PX4:O2	0.46	2.10	3	1
3:A:625:PX4:H9	3:A:625:PX4:O1	0.46	2.10	4	1
3:B:322:PX4:O1	3:B:322:PX4:H7	0.46	2.10	8	1
3:A:608:PX4:H9	3:B:395:PX4:O2	0.46	2.10	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:310:PX4:H3	3:C:310:PX4:C6	0.46	2.40	14	1
3:B:379:PX4:O4	3:B:385:PX4:H4	0.46	2.11	15	1
3:B:314:PX4:O1	3:B:314:PX4:H3	0.46	2.10	1	1
3:B:362:PX4:H12	3:B:362:PX4:O3	0.46	2.11	3	2
2:C:86:MET:HG3	3:C:314:PX4:H19	0.46	1.88	5	1
3:B:332:PX4:O2	3:B:332:PX4:H7	0.46	2.10	6	1
3:B:337:PX4:H15	3:B:339:PX4:H3	0.46	1.86	6	1
3:B:318:PX4:O4	3:B:334:PX4:H3	0.46	2.11	2	1
3:C:355:PX4:O1	3:C:367:PX4:H11	0.46	2.10	9	1
3:B:341:PX4:C2	3:B:364:PX4:O3	0.46	2.64	12	1
2:B:119:VAL:HG13	2:B:120:GLU:N	0.46	2.25	13	1
3:B:315:PX4:O3	3:B:315:PX4:H13	0.46	2.10	2	3
3:C:356:PX4:H10	3:C:356:PX4:O3	0.46	2.10	2	1
3:A:639:PX4:H8	3:A:640:PX4:O4	0.46	2.11	3	1
3:C:315:PX4:H4	3:C:331:PX4:O1	0.46	2.10	5	2
3:A:645:PX4:H13	3:A:647:PX4:O1	0.46	2.11	5	1
1:A:386:LYS:HD2	1:A:402:HIS:CE1	0.46	2.45	9	1
3:B:345:PX4:O8	3:B:373:PX4:H3	0.46	2.10	9	1
3:C:360:PX4:C6	3:C:360:PX4:H13	0.46	2.41	9	1
3:A:633:PX4:H3	3:B:400:PX4:O1	0.46	2.11	11	1
3:C:316:PX4:H10	3:C:316:PX4:O3	0.46	2.10	12	1
3:C:345:PX4:H10	3:C:345:PX4:O3	0.46	2.11	13	1
3:B:324:PX4:O3	3:B:324:PX4:C3	0.46	2.64	3	1
3:A:648:PX4:H10	3:A:648:PX4:O2	0.46	2.10	4	1
3:A:631:PX4:O3	3:A:631:PX4:H6	0.46	2.09	7	1
3:B:360:PX4:H4	3:B:360:PX4:O1	0.46	2.11	9	1
3:C:366:PX4:H3	3:C:366:PX4:O4	0.46	2.11	11	2
3:C:367:PX4:H9	3:C:367:PX4:O3	0.46	2.11	13	1
3:B:310:PX4:H9	3:B:310:PX4:O3	0.46	2.11	4	2
3:B:400:PX4:O1	3:C:370:PX4:H3	0.46	2.10	2	1
3:A:604:PX4:H16	3:B:394:PX4:H8	0.46	1.86	7	1
3:C:362:PX4:H3	3:C:362:PX4:C6	0.46	2.41	8	1
3:B:302:PX4:H7	3:B:302:PX4:O3	0.46	2.10	9	1
3:A:610:PX4:H5	3:C:368:PX4:O6	0.46	2.11	11	1
3:C:335:PX4:H4	3:C:335:PX4:O2	0.46	2.10	12	1
3:B:332:PX4:O3	3:B:332:PX4:H6	0.46	2.11	15	1
3:B:319:PX4:H8	3:B:320:PX4:O1	0.46	2.11	2	1
3:C:343:PX4:O3	3:C:343:PX4:H12	0.46	2.10	2	2
3:A:610:PX4:H9	3:A:610:PX4:O2	0.46	2.10	4	1
3:B:341:PX4:H12	3:B:364:PX4:H15	0.46	1.87	11	1
3:B:371:PX4:O2	3:B:375:PX4:H7	0.46	2.11	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:305:PX4:O3	3:C:305:PX4:H9	0.46	2.11	13	3
3:B:338:PX4:H3	3:B:357:PX4:H1	0.46	1.86	13	1
3:B:341:PX4:H1	3:B:364:PX4:H13	0.46	1.87	13	1
3:A:641:PX4:H9	3:A:641:PX4:O3	0.46	2.11	15	1
3:C:363:PX4:H10	3:C:363:PX4:O2	0.46	2.10	15	1
2:B:69:GLN:OE1	3:B:317:PX4:H5	0.45	2.11	1	1
3:B:351:PX4:H43	3:C:361:PX4:H41	0.45	1.88	1	1
3:A:602:PX4:H6	3:B:382:PX4:O2	0.45	2.11	2	1
3:C:326:PX4:O1	3:C:326:PX4:H3	0.45	2.11	2	1
3:B:350:PX4:H40	3:C:340:PX4:H43	0.45	1.88	6	1
3:B:400:PX4:O3	3:B:400:PX4:H6	0.45	2.11	6	2
3:A:621:PX4:O4	3:A:621:PX4:C23	0.45	2.64	8	1
3:C:306:PX4:H9	3:C:348:PX4:O2	0.45	2.12	9	1
3:C:309:PX4:H9	3:C:309:PX4:O3	0.45	2.11	15	1
3:C:368:PX4:O4	3:C:368:PX4:H3	0.45	2.11	15	1
3:C:306:PX4:O4	3:C:306:PX4:H3	0.45	2.11	1	1
3:B:360:PX4:H12	3:B:362:PX4:O3	0.45	2.11	3	1
3:A:619:PX4:O3	3:A:619:PX4:H12	0.45	2.11	4	1
3:B:391:PX4:H8	3:B:394:PX4:O1	0.45	2.12	4	1
3:B:349:PX4:O3	3:B:371:PX4:H4	0.45	2.11	5	1
3:B:332:PX4:O8	3:B:332:PX4:H3	0.45	2.12	9	1
3:A:638:PX4:O3	3:A:638:PX4:H13	0.45	2.10	15	2
3:C:302:PX4:O1	3:C:302:PX4:H3	0.45	2.11	15	1
3:A:637:PX4:O3	3:A:637:PX4:H13	0.45	2.11	1	1
3:A:614:PX4:O8	3:A:614:PX4:H4	0.45	2.11	3	1
3:C:323:PX4:H10	3:C:323:PX4:O3	0.45	2.12	6	1
3:B:320:PX4:O3	3:B:320:PX4:C5	0.45	2.64	7	1
3:B:321:PX4:H12	3:B:330:PX4:C6	0.45	2.40	10	1
3:A:602:PX4:H4	3:B:382:PX4:O2	0.45	2.10	12	1
3:B:400:PX4:O4	3:B:400:PX4:H3	0.45	2.11	1	1
3:B:377:PX4:O3	3:B:377:PX4:H7	0.45	2.11	3	3
3:C:329:PX4:H8	3:C:347:PX4:O8	0.45	2.12	8	1
3:C:359:PX4:H3	3:C:366:PX4:O4	0.45	2.11	8	1
3:A:604:PX4:O1	3:B:394:PX4:H7	0.45	2.11	9	1
3:B:399:PX4:H5	3:C:321:PX4:O6	0.45	2.11	13	2
3:B:385:PX4:H9	3:B:385:PX4:O1	0.45	2.12	14	1
3:A:643:PX4:H10	3:A:643:PX4:O4	0.45	2.11	6	1
3:B:376:PX4:H4	3:B:381:PX4:P1	0.45	2.52	7	1
3:A:626:PX4:O3	3:A:626:PX4:H6	0.45	2.12	8	1
3:B:356:PX4:O4	3:B:370:PX4:H7	0.45	2.11	8	1
3:C:326:PX4:O1	3:C:345:PX4:H6	0.45	2.12	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:617:PX4:O2	3:C:365:PX4:H12	0.45	2.12	13	1
3:B:308:PX4:H12	3:B:308:PX4:O3	0.45	2.11	3	1
3:B:394:PX4:O3	3:B:394:PX4:H12	0.45	2.11	3	1
1:A:487:ASN:CB	3:A:643:PX4:H6	0.45	2.42	4	1
3:B:398:PX4:H17	3:B:398:PX4:H12	0.45	1.89	5	1
3:C:353:PX4:H3	3:C:353:PX4:O1	0.45	2.12	8	1
3:A:644:PX4:H10	3:A:644:PX4:O6	0.45	2.11	14	1
3:A:608:PX4:H4	3:B:394:PX4:O6	0.45	2.12	7	1
3:A:633:PX4:H7	3:B:400:PX4:H16	0.45	1.88	8	1
3:B:378:PX4:O2	3:C:305:PX4:H11	0.45	2.11	8	1
3:C:317:PX4:H12	3:C:317:PX4:O3	0.45	2.12	10	2
3:B:340:PX4:O8	3:B:356:PX4:H12	0.45	2.11	11	1
3:B:392:PX4:H15	3:B:393:PX4:H9	0.45	1.89	14	1
3:A:608:PX4:H10	3:B:394:PX4:O1	0.45	2.11	2	1
3:B:378:PX4:H9	3:B:378:PX4:O3	0.45	2.12	3	1
3:B:378:PX4:H12	3:B:390:PX4:O2	0.45	2.12	5	1
3:A:616:PX4:H13	3:A:616:PX4:O8	0.45	2.12	7	1
3:B:377:PX4:H7	3:B:377:PX4:H14	0.45	1.88	12	1
3:C:321:PX4:O1	3:C:321:PX4:H4	0.45	2.12	13	1
3:C:365:PX4:O1	3:C:365:PX4:H6	0.45	2.11	14	1
3:A:604:PX4:H4	3:A:605:PX4:C6	0.45	2.41	15	1
3:C:347:PX4:O1	3:C:347:PX4:H12	0.45	2.11	15	1
3:B:392:PX4:O8	3:B:393:PX4:H3	0.45	2.10	4	2
3:B:325:PX4:H5	3:B:331:PX4:O3	0.45	2.12	4	1
3:B:336:PX4:H8	3:B:358:PX4:O3	0.45	2.12	4	1
3:C:333:PX4:H12	3:C:360:PX4:O1	0.45	2.12	6	1
3:C:327:PX4:H8	3:C:332:PX4:O3	0.45	2.12	8	1
2:B:115:TYR:O	2:B:119:VAL:HG12	0.45	2.12	12	1
2:C:104:PHE:CE1	3:C:324:PX4:H28	0.45	2.47	15	1
3:A:602:PX4:O5	3:A:603:PX4:H7	0.45	2.11	2	1
3:C:355:PX4:O3	3:C:367:PX4:H8	0.45	2.12	2	1
2:C:101:LEU:HD11	3:C:324:PX4:C8	0.45	2.42	9	1
3:C:366:PX4:O6	3:C:366:PX4:H6	0.45	2.12	9	1
3:A:638:PX4:H4	3:A:638:PX4:O4	0.45	2.11	11	1
1:A:474:PHE:CE2	1:A:485:LYS:HE2	0.45	2.47	12	1
2:B:171:ARG:NH1	3:B:307:PX4:H3	0.45	2.27	12	1
1:A:503:ARG:NH2	3:A:644:PX4:O1	0.45	2.51	13	1
3:C:368:PX4:O8	3:C:368:PX4:H3	0.45	2.12	13	1
3:B:333:PX4:C1	3:B:333:PX4:C6	0.45	2.95	14	1
3:B:369:PX4:O2	3:B:369:PX4:H7	0.45	2.11	14	1
3:A:620:PX4:H8	3:C:359:PX4:O1	0.44	2.12	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:613:PX4:H42	3:A:622:PX4:H44	0.44	1.87	2	1
3:B:312:PX4:H4	3:B:312:PX4:O2	0.44	2.12	7	2
3:B:349:PX4:O2	3:B:371:PX4:H3	0.44	2.12	6	1
3:C:333:PX4:O4	3:C:360:PX4:H10	0.44	2.12	6	1
3:B:322:PX4:O4	3:B:322:PX4:H3	0.44	2.12	9	1
3:B:397:PX4:H5	2:C:120:GLU:OE2	0.44	2.12	11	1
3:C:344:PX4:H3	3:C:344:PX4:O1	0.44	2.12	11	1
3:B:388:PX4:O2	3:B:393:PX4:H8	0.44	2.12	12	1
3:B:366:PX4:H12	3:B:367:PX4:O1	0.44	2.12	13	1
3:C:334:PX4:H7	3:C:347:PX4:O6	0.44	2.11	14	1
3:C:301:PX4:O4	3:C:301:PX4:H3	0.44	2.12	1	1
3:A:615:PX4:O4	3:A:615:PX4:H3	0.44	2.12	2	1
3:C:330:PX4:O1	3:C:330:PX4:H3	0.44	2.13	2	1
3:B:378:PX4:H3	3:B:378:PX4:O4	0.44	2.13	4	1
3:C:309:PX4:O1	3:C:344:PX4:H7	0.44	2.13	4	1
3:A:620:PX4:H12	3:A:620:PX4:O3	0.44	2.12	6	1
3:A:639:PX4:H14	3:A:640:PX4:H6	0.44	1.90	6	1
3:B:347:PX4:P1	3:B:354:PX4:H11	0.44	2.51	6	1
3:B:321:PX4:O3	3:B:321:PX4:H9	0.44	2.12	8	3
3:C:309:PX4:O1	3:C:309:PX4:H9	0.44	2.12	9	1
3:C:333:PX4:O1	3:C:360:PX4:H4	0.44	2.13	5	1
3:A:642:PX4:O4	3:A:647:PX4:H10	0.44	2.13	14	2
3:A:602:PX4:O6	3:A:603:PX4:H3	0.44	2.11	7	1
3:C:320:PX4:O1	3:C:320:PX4:H4	0.44	2.11	7	1
3:B:366:PX4:H45	3:C:367:PX4:C22	0.44	2.43	8	1
3:B:336:PX4:O3	3:B:350:PX4:H7	0.44	2.12	7	1
3:B:338:PX4:H10	3:B:377:PX4:O2	0.44	2.11	13	1
3:B:393:PX4:H13	3:B:393:PX4:O3	0.44	2.12	14	2
3:C:359:PX4:O3	3:C:359:PX4:H10	0.44	2.12	1	1
3:A:617:PX4:H10	3:A:617:PX4:O8	0.44	2.13	6	1
3:B:340:PX4:H13	3:B:370:PX4:H2	0.44	1.89	10	1
3:B:396:PX4:H6	3:B:396:PX4:O1	0.44	2.12	12	1
3:B:359:PX4:H9	3:B:359:PX4:O3	0.44	2.12	13	1
3:B:384:PX4:O3	3:B:384:PX4:H12	0.44	2.13	13	1
3:B:302:PX4:H4	3:B:302:PX4:C6	0.44	2.42	1	1
3:A:648:PX4:O3	3:A:648:PX4:H12	0.44	2.13	3	1
1:A:457:GLU:OE2	3:A:636:PX4:H13	0.44	2.12	4	1
3:B:314:PX4:O2	3:B:334:PX4:H8	0.44	2.12	6	1
3:A:625:PX4:H6	3:A:625:PX4:H15	0.44	1.89	8	1
3:A:618:PX4:H12	3:A:644:PX4:C5	0.44	2.34	9	1
3:B:301:PX4:H4	3:B:301:PX4:O1	0.44	2.13	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:347:PX4:O3	3:B:347:PX4:H9	0.44	2.13	13	1
3:C:345:PX4:O2	3:C:364:PX4:H3	0.44	2.13	4	2
1:A:493:VAL:O	3:A:643:PX4:H5	0.44	2.12	7	1
3:C:341:PX4:O3	3:C:341:PX4:H7	0.44	2.13	1	1
3:A:639:PX4:H12	3:A:639:PX4:O2	0.44	2.12	4	1
3:B:336:PX4:O1	3:B:350:PX4:H8	0.44	2.12	8	1
3:B:341:PX4:O1	3:B:341:PX4:H3	0.44	2.13	9	2
3:A:633:PX4:O2	3:A:633:PX4:H4	0.44	2.13	12	1
3:B:354:PX4:H18	3:B:354:PX4:O8	0.44	2.13	15	1
3:A:611:PX4:O3	3:C:351:PX4:H12	0.44	2.13	2	1
3:C:302:PX4:O3	3:C:302:PX4:H6	0.44	2.13	3	1
3:C:305:PX4:H3	3:C:305:PX4:O2	0.44	2.13	4	1
3:C:344:PX4:O2	3:C:344:PX4:H4	0.44	2.13	4	1
3:B:396:PX4:O1	3:B:397:PX4:H10	0.44	2.12	7	1
3:B:307:PX4:O1	3:B:307:PX4:H3	0.44	2.13	8	2
3:A:647:PX4:H7	3:A:647:PX4:H15	0.44	1.88	14	1
3:B:345:PX4:H2	3:B:373:PX4:H13	0.44	1.90	15	1
3:A:625:PX4:O2	3:A:636:PX4:H4	0.43	2.13	6	3
3:A:644:PX4:O3	3:A:644:PX4:H6	0.43	2.13	6	1
3:B:368:PX4:H9	3:B:368:PX4:O3	0.43	2.13	9	2
2:B:217:LYS:O	2:B:221:HIS:CD2	0.43	2.71	12	1
3:B:321:PX4:H4	3:B:330:PX4:O2	0.43	2.13	14	1
3:A:627:PX4:O4	3:A:627:PX4:C2	0.43	2.57	3	1
3:A:601:PX4:H5	3:B:381:PX4:O1	0.43	2.12	4	2
3:C:344:PX4:H7	3:C:344:PX4:O2	0.43	2.13	7	1
3:C:337:PX4:H12	3:C:346:PX4:O7	0.43	2.13	8	1
3:C:301:PX4:H10	3:C:301:PX4:O2	0.43	2.13	10	1
3:C:366:PX4:H7	3:C:369:PX4:O1	0.43	2.12	10	1
3:B:372:PX4:O2	3:B:382:PX4:H4	0.43	2.14	11	1
3:B:376:PX4:O1	3:B:376:PX4:H12	0.43	2.13	12	1
1:A:494:GLU:OE1	3:A:646:PX4:H13	0.43	2.13	13	1
3:C:349:PX4:O3	3:C:349:PX4:H13	0.43	2.13	13	1
3:A:639:PX4:H7	3:A:639:PX4:O3	0.43	2.12	15	1
3:A:621:PX4:H33	3:C:360:PX4:H45	0.43	1.89	2	1
3:A:605:PX4:O8	3:A:607:PX4:H3	0.43	2.12	3	1
3:A:614:PX4:H7	3:A:619:PX4:H14	0.43	1.90	3	1
3:A:601:PX4:H13	3:B:389:PX4:O2	0.43	2.13	7	1
3:A:633:PX4:H7	3:B:400:PX4:C6	0.43	2.43	7	1
1:A:493:VAL:HG13	3:A:645:PX4:H9	0.43	1.90	8	1
3:C:334:PX4:O3	3:C:334:PX4:H10	0.43	2.13	9	2
3:C:312:PX4:H8	3:C:325:PX4:O4	0.43	2.13	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:399:PX4:H13	3:C:336:PX4:O6	0.43	2.13	13	1
3:C:352:PX4:H8	3:C:361:PX4:O4	0.43	2.14	14	1
3:A:602:PX4:C8	3:A:603:PX4:H7	0.43	2.44	2	1
3:A:613:PX4:O2	3:C:346:PX4:H6	0.43	2.12	2	1
3:A:619:PX4:O3	3:A:635:PX4:H7	0.43	2.14	2	1
3:B:342:PX4:H4	3:B:342:PX4:O4	0.43	2.13	3	1
3:C:347:PX4:H5	3:C:354:PX4:O4	0.43	2.13	3	1
3:B:336:PX4:H7	3:B:336:PX4:O3	0.43	2.13	4	1
3:C:324:PX4:O4	3:C:324:PX4:H3	0.43	2.13	6	1
3:C:321:PX4:H4	3:C:356:PX4:O2	0.43	2.13	10	2
3:A:644:PX4:O1	3:A:648:PX4:H6	0.43	2.14	9	1
3:B:319:PX4:O1	3:B:319:PX4:H4	0.43	2.14	9	1
3:C:359:PX4:O3	3:C:359:PX4:H13	0.43	2.13	12	1
3:B:341:PX4:O3	3:B:364:PX4:H13	0.43	2.13	13	1
3:B:340:PX4:O3	3:B:340:PX4:H9	0.43	2.13	14	1
1:A:456:TRP:CE3	1:A:459:ILE:HD11	0.43	2.48	15	1
3:A:646:PX4:O3	3:A:646:PX4:C3	0.43	2.66	1	1
3:B:399:PX4:O2	3:C:356:PX4:H12	0.43	2.13	2	1
3:A:606:PX4:O1	3:A:606:PX4:H3	0.43	2.13	4	2
3:B:360:PX4:H13	3:B:362:PX4:O8	0.43	2.13	4	1
3:B:390:PX4:H7	3:B:390:PX4:O3	0.43	2.13	4	1
3:B:379:PX4:H3	3:B:391:PX4:O4	0.43	2.12	5	1
3:B:332:PX4:O3	3:B:332:PX4:C4	0.43	2.64	6	1
3:A:636:PX4:H9	3:A:636:PX4:O2	0.43	2.14	8	1
3:C:333:PX4:H10	3:C:360:PX4:P1	0.43	2.53	11	1
3:A:617:PX4:H6	3:C:349:PX4:O2	0.43	2.13	13	1
3:C:344:PX4:O4	3:C:344:PX4:H3	0.43	2.14	14	1
3:A:622:PX4:O3	3:A:622:PX4:H6	0.43	2.14	2	1
3:B:302:PX4:O1	3:B:307:PX4:H4	0.43	2.14	3	2
3:B:309:PX4:H8	3:B:342:PX4:O1	0.43	2.14	7	1
3:C:365:PX4:O1	3:C:365:PX4:H3	0.43	2.13	13	1
3:B:365:PX4:H7	3:B:365:PX4:O6	0.43	2.14	14	1
3:B:303:PX4:H3	3:B:303:PX4:O4	0.43	2.14	15	1
3:C:359:PX4:O3	3:C:366:PX4:H9	0.43	2.14	2	1
3:C:329:PX4:H10	3:C:347:PX4:O2	0.43	2.14	3	1
3:C:333:PX4:O1	3:C:333:PX4:H9	0.43	2.14	4	1
3:B:341:PX4:O4	3:B:364:PX4:H9	0.43	2.14	6	1
3:C:318:PX4:O3	3:C:318:PX4:H6	0.43	2.14	6	2
1:A:321:GLY:HA2	1:A:323:PHE:CZ	0.43	2.49	7	1
3:A:603:PX4:O3	3:A:603:PX4:C5	0.43	2.67	8	1
3:C:352:PX4:H9	3:C:361:PX4:O1	0.43	2.14	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:331:PX4:O2	3:B:331:PX4:H6	0.43	2.14	2	1
3:B:336:PX4:O1	3:B:350:PX4:H9	0.43	2.14	4	1
3:B:302:PX4:O4	3:B:302:PX4:H4	0.43	2.14	5	1
3:A:618:PX4:H6	3:A:618:PX4:O3	0.43	2.14	7	2
3:B:319:PX4:H5	3:B:320:PX4:O4	0.43	2.13	7	1
3:B:387:PX4:O3	3:B:387:PX4:H6	0.43	2.14	11	1
3:C:369:PX4:H7	3:C:369:PX4:O2	0.43	2.13	1	1
2:C:211:LEU:HD12	2:C:215:HIS:CD2	0.43	2.49	3	1
3:C:361:PX4:O3	3:C:361:PX4:H12	0.43	2.13	9	2
3:A:610:PX4:H13	3:A:629:PX4:O6	0.43	2.14	8	2
3:A:611:PX4:H15	3:A:613:PX4:H11	0.43	1.90	7	1
3:B:357:PX4:O3	3:B:357:PX4:C5	0.43	2.67	7	1
3:C:313:PX4:O8	3:C:337:PX4:H3	0.43	2.14	11	1
3:B:356:PX4:H16	3:B:370:PX4:C2	0.43	2.43	1	1
3:C:305:PX4:H18	3:C:305:PX4:O8	0.43	2.13	1	1
3:C:352:PX4:O8	3:C:364:PX4:H7	0.43	2.14	1	1
3:C:344:PX4:O3	3:C:344:PX4:H9	0.43	2.13	6	1
1:A:486:PHE:CZ	1:A:491:LEU:HA	0.43	2.49	7	1
3:B:359:PX4:O1	3:B:359:PX4:H3	0.43	2.14	7	1
3:B:332:PX4:H9	3:B:332:PX4:O2	0.43	2.14	8	1
3:C:321:PX4:H12	3:C:321:PX4:O3	0.42	2.14	1	1
3:B:365:PX4:O1	3:B:365:PX4:H3	0.42	2.14	4	1
3:C:309:PX4:H2	3:C:344:PX4:H11	0.42	1.90	5	1
1:A:430:PHE:CD1	1:A:435:TYR:HB3	0.42	2.49	7	1
3:A:633:PX4:H9	3:B:400:PX4:O4	0.42	2.13	8	1
3:A:627:PX4:H5	3:C:361:PX4:H7	0.42	1.91	9	1
3:C:335:PX4:C28	3:C:335:PX4:H47	0.42	2.44	10	1
3:B:338:PX4:H3	3:B:357:PX4:O1	0.42	2.14	15	2
3:A:639:PX4:O2	3:A:640:PX4:H11	0.42	2.14	13	1
3:B:394:PX4:O2	3:B:394:PX4:H9	0.42	2.13	13	1
3:A:642:PX4:O1	3:A:647:PX4:H3	0.42	2.13	15	1
3:B:373:PX4:O1	3:B:388:PX4:H8	0.42	2.14	15	1
3:A:619:PX4:H9	3:A:635:PX4:O6	0.42	2.13	3	1
3:A:601:PX4:O3	3:A:601:PX4:H7	0.42	2.14	5	1
3:B:378:PX4:O2	3:C:305:PX4:H10	0.42	2.14	9	1
3:A:634:PX4:O4	3:A:644:PX4:H6	0.42	2.14	10	1
3:C:319:PX4:H13	3:C:319:PX4:O3	0.42	2.14	11	1
3:C:326:PX4:C9	3:C:328:PX4:H24	0.42	2.45	13	1
1:A:457:GLU:OE1	3:A:636:PX4:H12	0.42	2.14	1	1
3:C:337:PX4:O3	3:C:337:PX4:H6	0.42	2.14	3	1
3:B:356:PX4:O8	3:B:370:PX4:H10	0.42	2.14	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:615:PX4:H8	3:C:360:PX4:O2	0.42	2.14	7	1
3:B:358:PX4:O2	3:B:365:PX4:H13	0.42	2.13	7	1
3:C:329:PX4:H6	3:C:329:PX4:O3	0.42	2.14	10	2
3:B:352:PX4:O3	3:B:369:PX4:H10	0.42	2.14	9	1
2:B:184:HIS:CE1	2:C:123:LEU:HA	0.42	2.49	12	1
3:B:379:PX4:O2	3:B:385:PX4:H6	0.42	2.14	12	1
3:B:383:PX4:H3	3:B:383:PX4:O1	0.42	2.15	12	1
3:B:325:PX4:O3	3:B:325:PX4:H9	0.42	2.14	15	1
3:B:386:PX4:O2	3:B:386:PX4:H3	0.42	2.14	15	1
3:A:605:PX4:O4	3:A:607:PX4:H3	0.42	2.15	9	2
3:C:305:PX4:O8	3:C:305:PX4:C8	0.42	2.67	1	1
3:B:307:PX4:H6	3:B:307:PX4:O3	0.42	2.15	2	1
3:C:352:PX4:H10	3:C:352:PX4:O3	0.42	2.14	2	2
3:B:376:PX4:H10	3:B:376:PX4:O3	0.42	2.14	9	3
3:B:325:PX4:H9	3:B:325:PX4:O3	0.42	2.14	13	3
3:B:342:PX4:O4	3:B:342:PX4:H4	0.42	2.14	8	1
3:B:399:PX4:H3	3:B:399:PX4:O1	0.42	2.14	9	1
3:C:323:PX4:C6	3:C:323:PX4:H10	0.42	2.44	9	1
3:A:612:PX4:H3	3:A:612:PX4:O4	0.42	2.12	10	1
3:B:382:PX4:O3	3:B:382:PX4:H6	0.42	2.14	14	2
3:B:334:PX4:O1	3:B:346:PX4:H7	0.42	2.14	15	1
3:B:304:PX4:O3	3:B:304:PX4:H7	0.42	2.15	3	1
3:B:313:PX4:O3	3:B:313:PX4:H9	0.42	2.14	5	1
3:A:634:PX4:H4	3:A:641:PX4:O1	0.42	2.13	8	1
3:B:399:PX4:O3	3:C:356:PX4:H3	0.42	2.13	9	1
3:A:628:PX4:O1	3:A:644:PX4:H11	0.42	2.14	11	1
3:A:633:PX4:H6	3:C:370:PX4:H47	0.42	1.91	11	1
3:C:351:PX4:O3	3:C:351:PX4:H13	0.42	2.14	15	1
3:A:624:PX4:O3	3:A:624:PX4:H13	0.42	2.15	13	3
3:B:385:PX4:H22	3:B:389:PX4:H48	0.42	1.92	2	1
3:B:312:PX4:C27	3:B:317:PX4:H8	0.42	2.38	3	1
2:C:193:ARG:NH2	3:C:311:PX4:O1	0.42	2.53	5	1
3:B:328:PX4:H12	3:B:328:PX4:O3	0.42	2.14	9	1
3:B:320:PX4:P1	3:B:320:PX4:H13	0.42	2.54	11	1
3:C:306:PX4:O1	3:C:306:PX4:H3	0.42	2.14	11	1
3:C:364:PX4:O3	3:C:364:PX4:H12	0.42	2.14	12	1
3:A:633:PX4:H9	3:C:370:PX4:O6	0.42	2.15	1	1
1:A:490:LYS:HB2	3:A:643:PX4:H12	0.42	1.91	2	1
3:A:623:PX4:H10	3:A:623:PX4:O6	0.42	2.13	5	1
3:C:329:PX4:H14	3:C:329:PX4:H7	0.42	1.91	7	1
3:B:303:PX4:H4	3:B:303:PX4:O2	0.42	2.15	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:348:PX4:O3	3:C:370:PX4:H12	0.42	2.15	8	1
3:B:386:PX4:H12	3:B:386:PX4:O3	0.42	2.14	9	1
3:B:309:PX4:O6	3:B:315:PX4:H4	0.42	2.15	10	1
3:B:331:PX4:O1	3:B:331:PX4:H3	0.42	2.15	10	1
3:B:378:PX4:H1	3:B:378:PX4:C6	0.42	2.44	10	1
3:B:367:PX4:O3	3:B:367:PX4:H6	0.42	2.13	11	2
3:B:378:PX4:O2	3:B:387:PX4:H4	0.42	2.13	13	1
3:A:635:PX4:O3	3:A:635:PX4:H6	0.42	2.13	10	2
3:B:392:PX4:O8	3:B:393:PX4:H7	0.42	2.14	14	2
3:A:642:PX4:O3	3:A:642:PX4:H10	0.42	2.14	3	1
3:C:365:PX4:H4	3:C:365:PX4:C6	0.42	2.45	4	1
3:A:615:PX4:H7	3:A:615:PX4:O6	0.42	2.15	6	1
3:B:349:PX4:O3	3:B:371:PX4:H9	0.42	2.15	6	1
3:C:337:PX4:H4	3:C:346:PX4:P1	0.42	2.54	6	1
3:C:348:PX4:H9	3:C:348:PX4:O3	0.42	2.15	6	1
3:B:326:PX4:H70	3:C:327:PX4:H71	0.42	1.92	8	1
3:C:333:PX4:H4	3:C:360:PX4:O3	0.42	2.14	9	1
3:C:312:PX4:H5	3:C:325:PX4:O2	0.42	2.15	12	1
3:C:359:PX4:H6	3:C:363:PX4:O2	0.42	2.15	12	1
3:A:642:PX4:O6	3:A:647:PX4:H9	0.42	2.15	15	1
1:A:457:GLU:OE2	3:A:636:PX4:H3	0.42	2.14	3	1
3:A:621:PX4:O8	3:A:637:PX4:H6	0.42	2.15	4	1
3:B:323:PX4:H9	3:B:323:PX4:O3	0.42	2.14	5	1
3:B:360:PX4:O2	3:B:381:PX4:H6	0.42	2.13	7	1
3:C:331:PX4:O1	3:C:331:PX4:H3	0.42	2.15	7	1
3:A:647:PX4:H9	3:A:647:PX4:O4	0.42	2.14	11	1
3:C:341:PX4:P1	3:C:362:PX4:H9	0.42	2.54	11	1
3:B:321:PX4:H5	3:B:330:PX4:O2	0.42	2.15	12	1
3:B:381:PX4:H71	3:B:394:PX4:H35	0.42	1.91	14	1
3:C:312:PX4:O2	3:C:312:PX4:H4	0.42	2.14	1	1
3:A:642:PX4:O3	3:A:642:PX4:C4	0.42	2.67	3	1
3:B:345:PX4:O3	3:B:345:PX4:H10	0.42	2.15	3	1
3:A:639:PX4:O3	3:A:639:PX4:H10	0.42	2.15	4	1
3:B:331:PX4:H14	3:B:331:PX4:H6	0.42	1.91	6	1
3:B:349:PX4:H7	3:B:353:PX4:O2	0.42	2.15	9	1
3:C:321:PX4:H3	3:C:321:PX4:O4	0.42	2.15	10	1
3:C:324:PX4:H3	3:C:324:PX4:O2	0.42	2.15	11	1
3:B:312:PX4:H54	3:B:317:PX4:H10	0.42	1.90	13	1
3:A:613:PX4:O4	3:A:613:PX4:H13	0.42	2.15	14	1
3:A:610:PX4:H4	3:C:368:PX4:O6	0.42	2.13	15	1
3:B:308:PX4:H17	3:C:302:PX4:H13	0.42	1.91	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:315:PX4:O4	3:C:315:PX4:H4	0.41	2.14	6	1
3:C:366:PX4:H6	3:C:369:PX4:O4	0.41	2.14	7	1
1:A:504:ASP:OD2	3:A:641:PX4:H11	0.41	2.15	10	1
3:B:330:PX4:O3	3:B:330:PX4:C3	0.41	2.68	12	1
3:A:614:PX4:O3	3:A:614:PX4:H12	0.41	2.14	14	1
3:A:623:PX4:O3	3:A:623:PX4:H13	0.41	2.15	2	1
3:B:339:PX4:O4	3:B:339:PX4:H4	0.41	2.15	2	1
3:B:388:PX4:O3	3:B:388:PX4:H7	0.41	2.15	6	1
3:C:368:PX4:H12	3:C:368:PX4:O3	0.41	2.16	6	1
3:B:359:PX4:H8	3:B:363:PX4:O2	0.41	2.16	8	1
3:B:362:PX4:O2	3:B:362:PX4:H12	0.41	2.15	9	1
2:B:100:TYR:CD2	2:C:209:ALA:HB2	0.41	2.50	11	1
2:B:126:PHE:HB2	2:C:184:HIS:CE1	0.41	2.50	11	1
3:A:626:PX4:O8	3:C:365:PX4:H5	0.41	2.16	3	1
3:C:350:PX4:H12	3:C:352:PX4:O1	0.41	2.15	3	1
3:B:358:PX4:O1	3:B:365:PX4:H11	0.41	2.15	5	1
3:A:635:PX4:O2	3:A:635:PX4:H3	0.41	2.15	6	1
3:C:309:PX4:H4	3:C:309:PX4:C6	0.41	2.45	6	1
3:B:397:PX4:O3	3:B:397:PX4:H9	0.41	2.15	11	1
3:A:639:PX4:H4	3:A:639:PX4:O1	0.41	2.15	12	1
3:B:334:PX4:O2	3:B:346:PX4:H9	0.41	2.15	12	1
3:A:615:PX4:H12	3:C:360:PX4:O1	0.41	2.15	13	1
3:B:361:PX4:H7	3:B:361:PX4:O3	0.41	2.16	14	1
1:A:483:TYR:CD2	1:A:505:TRP:CZ2	0.41	3.08	2	1
3:C:319:PX4:O1	3:C:323:PX4:H5	0.41	2.15	6	1
3:A:613:PX4:O3	3:A:613:PX4:H6	0.41	2.16	9	1
3:A:638:PX4:C6	3:A:638:PX4:H4	0.41	2.45	10	1
3:C:355:PX4:H10	3:C:367:PX4:O3	0.41	2.15	13	1
3:B:358:PX4:H10	3:B:360:PX4:O1	0.41	2.14	1	1
3:A:626:PX4:H6	3:A:626:PX4:O3	0.41	2.16	6	1
3:A:635:PX4:H34	3:C:358:PX4:H68	0.41	1.93	7	1
3:B:337:PX4:O1	3:B:362:PX4:H4	0.41	2.15	8	1
3:B:346:PX4:H6	3:B:346:PX4:O3	0.41	2.15	9	1
3:B:312:PX4:O8	3:C:304:PX4:H10	0.41	2.16	12	1
3:B:309:PX4:O4	3:B:335:PX4:H7	0.41	2.16	14	1
3:B:347:PX4:O1	3:B:374:PX4:H10	0.41	2.15	14	1
3:A:633:PX4:H11	3:B:400:PX4:O2	0.41	2.16	2	1
3:C:350:PX4:H7	3:C:350:PX4:O3	0.41	2.16	4	1
3:C:342:PX4:H9	3:C:342:PX4:O3	0.41	2.16	5	1
3:C:349:PX4:O1	3:C:349:PX4:H13	0.41	2.15	7	1
1:A:476:TYR:CE1	1:A:485:LYS:HG3	0.41	2.51	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:601:PX4:O5	3:A:604:PX4:H9	0.41	2.16	12	1
3:A:633:PX4:H5	3:C:370:PX4:O4	0.41	2.16	14	1
3:B:392:PX4:H12	3:B:393:PX4:O6	0.41	2.15	15	1
3:A:642:PX4:O2	3:A:642:PX4:H4	0.41	2.15	10	2
3:C:348:PX4:O3	3:C:348:PX4:H9	0.41	2.16	5	1
3:A:613:PX4:O1	3:C:346:PX4:H6	0.41	2.15	7	1
3:A:601:PX4:H3	3:A:601:PX4:O8	0.41	2.15	8	1
3:A:630:PX4:O2	3:A:630:PX4:H13	0.41	2.16	11	1
3:B:373:PX4:H10	3:B:373:PX4:O3	0.41	2.15	11	1
3:C:304:PX4:O2	3:C:304:PX4:H3	0.41	2.16	11	1
3:B:355:PX4:H6	3:B:355:PX4:O3	0.41	2.16	2	2
3:C:359:PX4:H9	3:C:359:PX4:H15	0.41	1.92	2	1
3:B:380:PX4:H10	3:B:380:PX4:O3	0.41	2.15	4	1
3:C:360:PX4:O3	3:C:360:PX4:C5	0.41	2.68	5	1
3:B:349:PX4:H30	3:B:353:PX4:H48	0.41	1.91	6	1
3:B:370:PX4:O3	3:C:305:PX4:H13	0.41	2.15	6	1
3:A:604:PX4:H8	3:B:384:PX4:C6	0.41	2.46	7	1
2:B:86:MET:CE	3:B:308:PX4:H10	0.41	2.46	7	1
3:B:345:PX4:O1	3:B:373:PX4:H13	0.41	2.15	8	1
3:B:400:PX4:O3	3:B:400:PX4:C3	0.41	2.69	10	1
3:C:335:PX4:H47	3:C:335:PX4:H54	0.41	1.92	10	1
3:A:620:PX4:H54	3:A:628:PX4:H27	0.41	1.92	11	1
3:B:320:PX4:O1	3:B:320:PX4:H6	0.41	2.15	11	1
3:B:356:PX4:H14	3:B:356:PX4:H1	0.41	1.93	15	1
3:C:350:PX4:H3	3:C:352:PX4:O1	0.41	2.16	15	1
3:C:365:PX4:O3	3:C:365:PX4:H13	0.41	2.16	15	1
3:A:621:PX4:O2	3:C:365:PX4:H10	0.41	2.16	1	1
3:C:328:PX4:O3	3:C:328:PX4:H9	0.41	2.16	1	1
3:C:332:PX4:H10	3:C:332:PX4:O3	0.41	2.16	1	1
3:C:363:PX4:O3	3:C:363:PX4:H12	0.41	2.15	1	1
2:B:112:MET:HE1	3:B:304:PX4:H50	0.41	1.91	2	1
3:B:326:PX4:H42	3:C:327:PX4:H45	0.41	1.93	3	1
3:B:304:PX4:H3	3:C:301:PX4:O1	0.41	2.16	4	1
3:B:396:PX4:O4	3:B:396:PX4:H4	0.41	2.16	5	1
3:C:347:PX4:H7	3:C:366:PX4:O1	0.41	2.16	5	1
3:C:323:PX4:H10	3:C:323:PX4:C6	0.41	2.46	6	1
2:C:130:TRP:CE3	2:C:130:TRP:HA	0.41	2.50	7	1
3:B:356:PX4:H6	3:B:356:PX4:O3	0.41	2.16	8	1
3:A:602:PX4:H9	3:A:602:PX4:H14	0.41	1.93	9	1
3:C:305:PX4:O3	3:C:305:PX4:H6	0.41	2.16	9	1
3:B:347:PX4:H45	3:C:363:PX4:H42	0.41	1.93	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:358:PX4:O3	3:B:358:PX4:H7	0.41	2.15	10	1
3:B:379:PX4:H12	3:B:379:PX4:O3	0.41	2.15	10	1
3:B:318:PX4:O1	3:B:318:PX4:H10	0.41	2.16	15	1
3:B:390:PX4:H4	3:B:390:PX4:O1	0.41	2.16	15	1
3:C:335:PX4:O2	3:C:335:PX4:H12	0.41	2.15	15	1
3:A:608:PX4:O1	3:A:608:PX4:H3	0.41	2.16	4	1
3:B:340:PX4:O3	3:B:340:PX4:H7	0.41	2.15	4	1
3:B:337:PX4:C6	3:B:339:PX4:H3	0.41	2.46	6	1
3:B:398:PX4:H3	3:B:398:PX4:O4	0.41	2.16	6	1
3:C:309:PX4:H4	3:C:309:PX4:O4	0.41	2.16	6	1
3:B:302:PX4:O2	3:B:307:PX4:H7	0.41	2.17	8	1
3:B:336:PX4:H7	3:B:336:PX4:C6	0.41	2.46	8	1
3:C:333:PX4:H4	3:C:360:PX4:C1	0.41	2.46	10	1
3:B:359:PX4:O3	3:B:359:PX4:C4	0.41	2.67	12	1
3:A:607:PX4:H10	3:A:608:PX4:O1	0.41	2.16	13	1
3:A:608:PX4:O8	3:B:390:PX4:H11	0.41	2.16	13	1
3:C:354:PX4:H3	3:C:354:PX4:O1	0.41	2.15	13	1
3:B:349:PX4:C1	3:B:349:PX4:H15	0.41	2.45	14	1
3:B:397:PX4:H67	3:C:318:PX4:H69	0.41	1.92	14	1
3:A:628:PX4:O3	3:A:628:PX4:H10	0.41	2.16	15	1
3:B:305:PX4:H7	3:B:305:PX4:O3	0.41	2.16	15	1
3:B:338:PX4:H10	3:B:357:PX4:O1	0.40	2.15	1	1
3:B:366:PX4:O1	3:B:385:PX4:H5	0.40	2.16	1	1
3:B:355:PX4:H7	3:B:376:PX4:O2	0.40	2.16	2	1
3:A:613:PX4:H6	3:A:613:PX4:O3	0.40	2.16	5	1
3:A:633:PX4:O1	3:A:633:PX4:H13	0.40	2.15	5	1
3:C:357:PX4:C25	3:C:363:PX4:H11	0.40	2.45	6	1
3:B:327:PX4:H3	3:B:327:PX4:O1	0.40	2.16	7	1
3:B:388:PX4:O6	3:B:393:PX4:H9	0.40	2.16	7	1
3:A:612:PX4:H3	3:C:351:PX4:H18	0.40	1.92	8	1
2:B:128:LYS:HA	3:B:320:PX4:H8	0.40	1.92	9	1
3:B:311:PX4:H3	3:B:344:PX4:O2	0.40	2.16	11	1
3:B:324:PX4:H4	3:B:327:PX4:O2	0.40	2.16	11	1
3:C:351:PX4:H13	3:C:351:PX4:O3	0.40	2.16	11	1
3:C:352:PX4:H7	3:C:361:PX4:O3	0.40	2.16	12	1
3:B:385:PX4:H3	3:B:385:PX4:O4	0.40	2.16	5	1
3:C:323:PX4:O3	3:C:323:PX4:H10	0.40	2.15	5	1
3:A:602:PX4:H14	3:A:602:PX4:H7	0.40	1.92	6	1
3:C:324:PX4:O2	3:C:324:PX4:H3	0.40	2.16	8	1
3:B:369:PX4:O1	3:B:373:PX4:H11	0.40	2.16	10	1
3:A:641:PX4:H22	3:A:646:PX4:H20	0.40	1.93	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:C:244:LEU:HD22	3:C:331:PX4:H31	0.40	1.92	14	1
3:C:313:PX4:H72	3:C:346:PX4:H68	0.40	1.92	2	1
3:B:353:PX4:O4	3:B:371:PX4:H4	0.40	2.16	6	1
3:B:391:PX4:O3	3:B:391:PX4:H6	0.40	2.16	6	1
3:B:370:PX4:O2	3:B:370:PX4:H4	0.40	2.16	7	1
3:B:366:PX4:O3	3:B:366:PX4:C3	0.40	2.69	8	1
3:A:608:PX4:H4	3:B:394:PX4:C1	0.40	2.46	9	1
3:B:324:PX4:O1	3:B:352:PX4:H9	0.40	2.17	9	1
3:C:307:PX4:H20	3:C:313:PX4:H14	0.40	1.92	10	1
2:C:84:GLN:HE21	2:C:88:LYS:HG3	0.40	1.77	15	1
3:B:301:PX4:O2	3:B:301:PX4:H4	0.40	2.16	2	1
3:C:337:PX4:O3	3:C:346:PX4:H12	0.40	2.16	2	1
3:B:358:PX4:O3	3:B:358:PX4:H9	0.40	2.16	5	1
3:C:359:PX4:O3	3:C:366:PX4:C2	0.40	2.70	6	1
3:A:638:PX4:H18	3:A:648:PX4:H9	0.40	1.93	8	1
3:B:310:PX4:O1	3:B:342:PX4:H10	0.40	2.16	10	1
3:C:347:PX4:O3	3:C:347:PX4:C5	0.40	2.68	10	1
3:C:361:PX4:H3	3:C:361:PX4:O2	0.40	2.16	14	1
3:C:315:PX4:O2	3:C:315:PX4:H9	0.40	2.16	4	1
3:C:354:PX4:O2	3:C:354:PX4:H3	0.40	2.16	4	1
3:C:350:PX4:O3	3:C:350:PX4:H7	0.40	2.17	5	1
3:A:620:PX4:O2	3:A:638:PX4:H3	0.40	2.17	8	1
3:B:387:PX4:O3	3:B:387:PX4:H13	0.40	2.16	9	1
3:A:604:PX4:H13	3:A:605:PX4:O4	0.40	2.16	11	1
3:A:630:PX4:H6	3:A:630:PX4:O3	0.40	2.17	14	1
3:C:311:PX4:O8	3:C:317:PX4:H7	0.40	2.17	15	1

6.3 Torsion angles [i](#)

6.3.1 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 NMR 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	194/196 (99%)	176±3 (91±2%)	15±3 (8±2%)	3±2 (1±1%)	14	59
2	B	209/211 (99%)	204±1 (98±1%)	4±1 (2±1%)	0±0 (0±0%)	50	82
2	C	209/211 (99%)	205±1 (98±0%)	4±1 (2±1%)	0±0 (0±0%)	50	82

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	9180/9270 (99%)	8779 (96%)	344 (4%)	57 (1%)	29 74

All 27 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	392	GLU	9
2	C	231	PRO	6
1	A	393	ALA	4
1	A	448	GLU	4
1	A	375	LYS	3
1	A	354	PRO	3
2	B	143	PRO	3
2	B	142	GLU	2
1	A	472	GLU	2
1	A	510	SER	2
1	A	397	PRO	2
1	A	411	PRO	2
1	A	479	LYS	1
1	A	362	ARG	1
1	A	432	GLY	1
1	A	491	LEU	1
1	A	498	PRO	1
2	B	187	PRO	1
2	C	104	PHE	1
1	A	400	PRO	1
1	A	414	LYS	1
1	A	323	PHE	1
1	A	338	GLU	1
1	A	367	SER	1
2	B	119	VAL	1
1	A	322	ASN	1
1	A	503	ARG	1

6.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the sidechain conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	169/169 (100%)	164±2 (97±1%)	5±2 (3±1%)	44	89
2	B	187/187 (100%)	183±2 (98±1%)	4±2 (2±1%)	57	93
2	C	187/187 (100%)	182±3 (97±1%)	5±3 (3±1%)	45	89
All	All	8145/8145 (100%)	7932 (97%)	213 (3%)	49	91

All 112 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
2	B	210	ARG	14
2	C	210	ARG	14
1	A	372	TYR	10
2	B	86	MET	7
1	A	435	TYR	5
1	A	411	PRO	4
2	C	204	LYS	4
1	A	342	TRP	4
1	A	365	PRO	4
2	C	56	THR	4
2	C	63	GLN	4
2	B	237	ARG	3
2	C	71	PHE	3
1	A	368	ILE	3
2	C	119	VAL	3
1	A	422	MET	3
2	C	219	THR	3
2	C	139	GLN	3
1	A	375	LYS	3
1	A	404	LYS	3
2	B	123	LEU	3
1	A	340	TRP	2
1	A	470	SER	2
2	B	119	VAL	2
2	B	127	GLN	2
1	A	478	TYR	2
2	B	106	LYS	2
2	C	195	ARG	2
1	A	348	GLN	2
1	A	414	LYS	2
1	A	433	ASN	2
2	C	58	SER	2
1	A	436	TYR	2

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Mol	Chain	Res	Type	Models (Total)
2	B	66	PRO	2
2	C	242	PRO	2
2	C	236	LEU	2
2	C	183	THR	2
2	C	116	ARG	2
1	A	397	PRO	2
2	B	128	LYS	1
2	C	104	PHE	1
2	C	160	GLN	1
1	A	388	TRP	1
1	A	509	PRO	1
1	A	370	THR	1
2	C	206	ASN	1
2	C	252	LEU	1
1	A	378	LYS	1
1	A	382	PHE	1
1	A	491	LEU	1
2	B	93	VAL	1
2	B	99	PRO	1
2	B	121	PRO	1
2	B	194	GLN	1
2	B	255	LEU	1
2	C	147	GLU	1
2	C	154	GLN	1
2	B	165	PRO	1
2	B	215	HIS	1
2	C	247	PHE	1
1	A	346	ASN	1
1	A	412	THR	1
1	A	445	VAL	1
2	C	75	LEU	1
2	C	100	TYR	1
2	B	136	LEU	1
2	B	187	PRO	1
2	C	162	LYS	1
2	C	192	LEU	1
1	A	492	LYS	1
2	B	140	LYS	1
2	C	93	VAL	1
2	C	112	MET	1
1	A	374	ARG	1
2	B	90	LEU	1

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Mol	Chain	Res	Type	Models (Total)
2	B	166	LEU	1
2	B	224	THR	1
2	C	127	GLN	1
2	C	143	PRO	1
2	C	170	MET	1
2	C	211	LEU	1
2	C	224	THR	1
2	C	238	GLN	1
1	A	484	TRP	1
2	B	67	VAL	1
2	C	177	HIS	1
2	C	199	ARG	1
1	A	316	PRO	1
1	A	408	ARG	1
1	A	455	VAL	1
1	A	468	MET	1
2	B	92	GLU	1
2	B	139	GLN	1
2	B	181	LEU	1
2	C	102	ASP	1
2	C	118	LYS	1
2	B	84	GLN	1
2	B	264	THR	1
1	A	419	LEU	1
1	A	443	ARG	1
2	C	57	PHE	1
2	C	128	LYS	1
2	C	246	SER	1
1	A	341	PHE	1
2	B	56	THR	1
2	B	242	PRO	1
2	C	165	PRO	1
2	C	166	LEU	1
2	C	175	ARG	1
1	A	430	PHE	1
2	C	77	LYS	1
2	C	97	VAL	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

Of 220 ligands modelled in this entry, 2 are monoatomic - leaving 218 for Mogul analysis.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds 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 is the number of standard deviations the observed value is removed from the expected value. A bond length with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
3	PX4	B	396	-	45,45,45	1.08±0.10	3±1 (6±2%)
3	PX4	A	617	-	45,45,45	1.07±0.11	3±1 (6±2%)
3	PX4	B	331	-	45,45,45	1.11±0.12	3±1 (7±3%)
3	PX4	B	329	-	45,45,45	1.10±0.08	3±1 (7±3%)
3	PX4	B	315	-	45,45,45	1.07±0.14	3±1 (6±3%)
3	PX4	C	316	-	45,45,45	1.08±0.15	3±2 (6±4%)
3	PX4	C	360	-	45,45,45	1.08±0.08	3±1 (6±2%)
3	PX4	B	366	-	45,45,45	1.11±0.09	4±1 (7±2%)
3	PX4	B	381	-	45,45,45	1.06±0.10	2±1 (5±2%)
3	PX4	C	356	-	45,45,45	1.03±0.09	3±1 (5±3%)
3	PX4	C	368	-	45,45,45	1.13±0.12	4±2 (9±3%)
3	PX4	A	618	-	45,45,45	1.02±0.11	2±2 (5±4%)
3	PX4	C	350	-	45,45,45	1.13±0.15	3±2 (7±4%)
3	PX4	A	647	-	45,45,45	1.07±0.13	4±2 (8±4%)
3	PX4	B	394	-	45,45,45	1.09±0.12	3±1 (5±3%)
3	PX4	C	306	-	45,45,45	1.04±0.16	3±2 (6±4%)
3	PX4	C	334	-	45,45,45	1.07±0.10	3±2 (6±3%)
3	PX4	A	602	-	45,45,45	1.08±0.10	3±1 (6±2%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
3	PX4	C	319	-	45,45,45	1.03±0.07	2±1 (5±2%)
3	PX4	C	310	-	45,45,45	1.06±0.08	3±1 (6±2%)
3	PX4	B	369	-	45,45,45	1.07±0.16	3±2 (6±4%)
3	PX4	C	302	-	45,45,45	1.09±0.10	3±1 (6±3%)
3	PX4	C	313	-	45,45,45	1.09±0.12	4±2 (8±4%)
3	PX4	B	385	-	45,45,45	1.05±0.13	3±1 (5±3%)
3	PX4	C	338	-	45,45,45	1.07±0.11	3±2 (6±3%)
3	PX4	A	604	-	45,45,45	1.07±0.12	3±1 (5±3%)
3	PX4	C	332	-	45,45,45	1.10±0.09	3±1 (7±2%)
3	PX4	A	620	-	45,45,45	1.07±0.12	3±2 (6±3%)
3	PX4	C	341	-	45,45,45	1.10±0.12	4±1 (8±3%)
3	PX4	A	624	-	45,45,45	1.07±0.10	2±1 (5±2%)
3	PX4	C	329	-	45,45,45	1.05±0.10	3±1 (5±1%)
3	PX4	B	347	-	45,45,45	1.05±0.07	3±1 (6±2%)
3	PX4	B	376	-	45,45,45	1.07±0.12	3±2 (6±3%)
3	PX4	C	318	-	45,45,45	1.03±0.13	2±2 (5±3%)
3	PX4	A	641	-	45,45,45	1.07±0.11	3±1 (6±2%)
3	PX4	B	309	-	45,45,45	1.07±0.07	3±1 (6±2%)
3	PX4	B	388	-	45,45,45	1.07±0.10	2±1 (5±2%)
3	PX4	C	320	-	45,45,45	1.04±0.10	3±1 (5±2%)
3	PX4	A	625	-	45,45,45	1.05±0.13	3±2 (7±4%)
3	PX4	C	361	-	45,45,45	1.05±0.11	3±2 (6±3%)
3	PX4	B	389	-	45,45,45	1.07±0.13	3±1 (6±3%)
3	PX4	B	339	-	45,45,45	1.07±0.13	3±2 (7±3%)
3	PX4	A	626	-	45,45,45	1.03±0.09	3±2 (6±3%)
3	PX4	B	333	-	45,45,45	1.11±0.14	3±1 (7±3%)
3	PX4	B	365	-	45,45,45	1.09±0.16	3±2 (6±4%)
3	PX4	B	368	-	45,45,45	1.06±0.07	3±1 (6±2%)
3	PX4	B	351	-	45,45,45	1.01±0.14	3±2 (6±3%)
3	PX4	C	327	-	45,45,45	1.09±0.09	3±1 (6±2%)
3	PX4	B	383	-	45,45,45	1.03±0.12	3±1 (6±2%)
3	PX4	B	311	-	45,45,45	1.09±0.14	3±2 (6±4%)
3	PX4	C	311	-	45,45,45	1.06±0.07	3±1 (7±2%)
3	PX4	A	612	-	45,45,45	1.05±0.08	2±1 (5±2%)
3	PX4	B	384	-	45,45,45	1.05±0.11	3±1 (6±3%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
3	PX4	C	325	-	45,45,45	1.11±0.11	3±1 (7±2%)
3	PX4	C	326	-	45,45,45	1.01±0.08	2±1 (4±2%)
3	PX4	A	610	-	45,45,45	1.08±0.12	3±2 (6±3%)
3	PX4	B	345	-	45,45,45	1.07±0.08	3±1 (5±2%)
3	PX4	C	353	-	45,45,45	1.04±0.10	3±2 (6±4%)
3	PX4	B	336	-	45,45,45	1.12±0.13	3±2 (7±4%)
3	PX4	C	365	-	45,45,45	1.07±0.09	3±1 (6±3%)
3	PX4	B	377	-	45,45,45	1.10±0.08	4±1 (7±2%)
3	PX4	A	629	-	45,45,45	1.09±0.15	3±1 (6±2%)
3	PX4	A	646	-	45,45,45	1.08±0.10	3±1 (6±3%)
3	PX4	B	316	-	45,45,45	1.06±0.10	3±2 (6±4%)
3	PX4	B	328	-	45,45,45	1.04±0.11	3±1 (5±3%)
3	PX4	A	608	-	45,45,45	1.11±0.14	3±2 (7±4%)
3	PX4	A	639	-	45,45,45	1.05±0.10	2±1 (5±3%)
3	PX4	B	363	-	45,45,45	1.12±0.13	3±2 (7±4%)
3	PX4	C	315	-	45,45,45	1.07±0.11	3±2 (6±3%)
3	PX4	C	363	-	45,45,45	1.06±0.09	3±2 (6±3%)
3	PX4	B	350	-	45,45,45	1.09±0.19	3±2 (6±4%)
3	PX4	B	330	-	45,45,45	1.05±0.11	3±2 (7±3%)
3	PX4	B	395	-	45,45,45	1.10±0.12	3±2 (6±4%)
3	PX4	C	347	-	45,45,45	1.07±0.13	3±2 (6±3%)
3	PX4	A	628	-	45,45,45	1.07±0.10	3±2 (5±3%)
3	PX4	B	301	-	45,45,45	1.12±0.12	4±2 (8±4%)
3	PX4	B	320	-	45,45,45	1.09±0.11	3±1 (7±2%)
3	PX4	B	302	-	45,45,45	1.06±0.11	3±1 (6±2%)
3	PX4	A	615	-	45,45,45	1.09±0.12	3±1 (5±3%)
3	PX4	B	340	-	45,45,45	1.11±0.12	4±2 (9±4%)
3	PX4	A	645	-	45,45,45	1.08±0.09	3±1 (7±2%)
3	PX4	B	342	-	45,45,45	1.04±0.09	3±1 (5±3%)
3	PX4	B	372	-	45,45,45	1.06±0.17	3±2 (6±3%)
3	PX4	B	325	-	45,45,45	1.05±0.11	3±1 (6±2%)
3	PX4	A	635	-	45,45,45	1.09±0.13	3±1 (6±2%)
3	PX4	C	333	-	45,45,45	1.09±0.10	3±1 (7±2%)
3	PX4	B	344	-	45,45,45	1.05±0.10	3±1 (6±2%)
3	PX4	C	357	-	45,45,45	1.09±0.12	3±2 (6±3%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
3	PX4	A	609	-	45,45,45	1.10±0.16	3±2 (7±3%)
3	PX4	B	364	-	45,45,45	1.02±0.09	2±2 (4±3%)
3	PX4	B	370	-	45,45,45	1.05±0.09	3±1 (5±2%)
3	PX4	A	642	-	45,45,45	1.06±0.12	3±2 (6±3%)
3	PX4	A	623	-	45,45,45	1.04±0.11	3±2 (6±3%)
3	PX4	C	322	-	45,45,45	1.03±0.11	3±2 (6±3%)
3	PX4	B	399	-	45,45,45	1.10±0.07	4±1 (8±2%)
3	PX4	B	382	-	45,45,45	1.04±0.10	2±1 (5±3%)
3	PX4	B	356	-	45,45,45	1.09±0.11	3±1 (6±2%)
3	PX4	C	346	-	45,45,45	1.12±0.12	4±1 (8±2%)
3	PX4	C	349	-	45,45,45	1.10±0.17	3±2 (7±4%)
3	PX4	A	601	-	45,45,45	1.08±0.12	3±2 (6±4%)
3	PX4	C	369	-	45,45,45	1.08±0.09	4±1 (8±3%)
3	PX4	A	616	-	45,45,45	1.09±0.11	3±1 (6±2%)
3	PX4	B	348	-	45,45,45	1.06±0.08	3±2 (7±3%)
3	PX4	C	331	-	45,45,45	1.04±0.15	3±1 (5±3%)
3	PX4	C	337	-	45,45,45	1.06±0.08	3±1 (5±2%)
3	PX4	C	352	-	45,45,45	1.06±0.10	2±1 (5±2%)
3	PX4	B	303	-	45,45,45	1.07±0.13	3±1 (6±3%)
3	PX4	C	362	-	45,45,45	1.03±0.09	3±1 (6±3%)
3	PX4	C	367	-	45,45,45	1.05±0.09	3±1 (6±2%)
3	PX4	B	398	-	45,45,45	1.08±0.08	3±1 (6±2%)
3	PX4	C	354	-	45,45,45	1.10±0.12	3±1 (7±2%)
3	PX4	B	361	-	45,45,45	1.04±0.09	3±1 (6±3%)
3	PX4	C	336	-	45,45,45	1.09±0.13	3±2 (7±4%)
3	PX4	A	638	-	45,45,45	1.02±0.11	3±2 (5±3%)
3	PX4	C	328	-	45,45,45	1.03±0.12	3±1 (6±3%)
3	PX4	B	307	-	45,45,45	1.17±0.08	4±1 (8±3%)
3	PX4	B	355	-	45,45,45	1.10±0.10	3±1 (7±3%)
3	PX4	A	634	-	45,45,45	1.04±0.10	3±1 (6±3%)
3	PX4	C	355	-	45,45,45	1.04±0.11	3±1 (5±2%)
3	PX4	B	341	-	45,45,45	1.08±0.13	3±2 (7±3%)
3	PX4	B	304	-	45,45,45	1.13±0.17	4±2 (8±3%)
3	PX4	A	611	-	45,45,45	1.03±0.13	2±1 (5±3%)
3	PX4	B	337	-	45,45,45	1.08±0.10	3±1 (7±2%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
3	PX4	C	358	-	45,45,45	0.99±0.11	2±1 (5±3%)
3	PX4	A	633	-	45,45,45	1.08±0.12	3±2 (6±4%)
3	PX4	B	362	-	45,45,45	1.05±0.09	3±1 (6±3%)
3	PX4	B	378	-	45,45,45	1.02±0.14	3±2 (6±3%)
3	PX4	C	307	-	45,45,45	1.07±0.11	3±2 (5±3%)
3	PX4	C	340	-	45,45,45	1.06±0.10	2±1 (5±2%)
3	PX4	A	632	-	45,45,45	1.13±0.14	4±1 (8±2%)
3	PX4	A	637	-	45,45,45	1.07±0.13	3±2 (7±3%)
3	PX4	B	308	-	45,45,45	1.02±0.11	3±2 (5±3%)
3	PX4	C	308	-	45,45,45	1.08±0.11	3±1 (6±2%)
3	PX4	A	622	-	45,45,45	1.04±0.09	2±1 (5±2%)
3	PX4	C	324	-	45,45,45	1.04±0.12	2±1 (5±3%)
3	PX4	B	367	-	45,45,45	1.10±0.11	4±2 (8±3%)
3	PX4	B	318	-	45,45,45	1.09±0.07	3±1 (6±2%)
3	PX4	B	327	-	45,45,45	1.09±0.09	3±1 (7±2%)
3	PX4	B	352	-	45,45,45	1.08±0.14	3±2 (6±3%)
3	PX4	A	636	-	45,45,45	1.07±0.12	3±2 (6±3%)
3	PX4	C	314	-	45,45,45	1.12±0.08	3±1 (7±2%)
3	PX4	A	631	-	45,45,45	1.04±0.11	3±1 (6±3%)
3	PX4	C	312	-	45,45,45	1.06±0.12	3±1 (6±2%)
3	PX4	C	317	-	45,45,45	1.08±0.14	3±1 (7±2%)
3	PX4	A	630	-	45,45,45	1.07±0.16	3±2 (6±3%)
3	PX4	B	335	-	45,45,45	1.09±0.11	3±2 (7±3%)
3	PX4	B	393	-	45,45,45	1.07±0.08	3±1 (7±2%)
3	PX4	C	345	-	45,45,45	1.11±0.12	4±2 (8±3%)
3	PX4	A	648	-	45,45,45	1.10±0.10	4±1 (7±2%)
3	PX4	B	375	-	45,45,45	1.09±0.14	3±2 (6±4%)
3	PX4	B	305	-	45,45,45	1.06±0.12	3±2 (6±4%)
3	PX4	B	306	-	45,45,45	1.07±0.13	3±2 (6±3%)
3	PX4	B	324	-	45,45,45	1.11±0.13	3±1 (6±3%)
3	PX4	B	314	-	45,45,45	1.13±0.13	4±2 (8±4%)
3	PX4	B	323	-	45,45,45	1.03±0.15	2±1 (5±2%)
3	PX4	C	364	-	45,45,45	1.07±0.09	2±1 (5±3%)
3	PX4	B	319	-	45,45,45	1.09±0.11	4±2 (8±3%)
3	PX4	B	317	-	45,45,45	1.11±0.11	3±2 (7±3%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
3	PX4	B	349	-	45,45,45	1.03±0.13	3±2 (5±3%)
3	PX4	C	343	-	45,45,45	1.07±0.10	3±1 (5±2%)
3	PX4	C	366	-	45,45,45	1.09±0.11	3±1 (6±2%)
3	PX4	A	606	-	45,45,45	1.09±0.11	3±2 (6±3%)
3	PX4	B	373	-	45,45,45	1.12±0.10	4±1 (8±3%)
3	PX4	C	304	-	45,45,45	1.08±0.13	3±2 (6±3%)
3	PX4	B	390	-	45,45,45	1.08±0.15	4±2 (7±3%)
3	PX4	C	351	-	45,45,45	1.10±0.08	3±1 (7±3%)
3	PX4	B	326	-	45,45,45	1.03±0.09	3±1 (5±3%)
3	PX4	B	400	-	45,45,45	1.06±0.15	3±1 (5±2%)
3	PX4	A	605	-	45,45,45	1.09±0.08	3±2 (6±3%)
3	PX4	A	607	-	45,45,45	1.11±0.07	4±1 (7±2%)
3	PX4	B	360	-	45,45,45	1.03±0.09	3±1 (5±2%)
3	PX4	B	334	-	45,45,45	1.04±0.09	3±1 (5±3%)
3	PX4	C	330	-	45,45,45	1.10±0.12	3±1 (7±3%)
3	PX4	B	332	-	45,45,45	1.04±0.12	3±2 (6±3%)
3	PX4	B	391	-	45,45,45	1.10±0.08	3±1 (7±2%)
3	PX4	C	344	-	45,45,45	1.10±0.11	3±2 (7±3%)
3	PX4	B	310	-	45,45,45	1.12±0.09	4±1 (8±2%)
3	PX4	C	342	-	45,45,45	1.07±0.13	3±2 (6±3%)
3	PX4	B	380	-	45,45,45	1.07±0.13	3±2 (7±3%)
3	PX4	B	371	-	45,45,45	1.04±0.12	3±1 (6±2%)
3	PX4	B	354	-	45,45,45	1.09±0.09	3±1 (6±2%)
3	PX4	B	353	-	45,45,45	1.03±0.13	2±2 (5±3%)
3	PX4	B	387	-	45,45,45	1.09±0.11	3±1 (7±3%)
3	PX4	B	397	-	45,45,45	1.12±0.12	3±1 (7±3%)
3	PX4	B	338	-	45,45,45	1.08±0.16	3±2 (6±4%)
3	PX4	A	643	-	45,45,45	1.06±0.13	3±1 (5±3%)
3	PX4	B	386	-	45,45,45	1.06±0.07	3±1 (6±3%)
3	PX4	A	640	-	45,45,45	1.17±0.12	4±1 (8±3%)
3	PX4	A	621	-	45,45,45	1.10±0.12	3±2 (7±4%)
3	PX4	C	303	-	45,45,45	1.12±0.15	4±2 (7±4%)
3	PX4	B	346	-	45,45,45	1.06±0.08	3±1 (5±2%)
3	PX4	B	358	-	45,45,45	1.08±0.11	4±2 (8±3%)
3	PX4	B	357	-	45,45,45	1.03±0.10	2±1 (5±2%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
3	PX4	A	644	-	45,45,45	1.03±0.12	3±2 (6±4%)
3	PX4	C	370	-	45,45,45	1.11±0.13	3±1 (6±3%)
3	PX4	A	603	-	45,45,45	1.05±0.11	3±2 (6±3%)
3	PX4	B	313	-	45,45,45	1.05±0.12	3±2 (6±4%)
3	PX4	C	348	-	45,45,45	1.11±0.12	3±1 (7±3%)
3	PX4	C	321	-	45,45,45	1.12±0.16	4±1 (7±2%)
3	PX4	B	322	-	45,45,45	1.05±0.05	3±1 (6±2%)
3	PX4	C	335	-	45,45,45	1.08±0.10	3±1 (6±2%)
3	PX4	C	323	-	45,45,45	1.10±0.17	4±2 (8±4%)
3	PX4	B	321	-	45,45,45	1.09±0.10	3±1 (7±3%)
3	PX4	B	374	-	45,45,45	1.04±0.09	2±1 (5±3%)
3	PX4	B	392	-	45,45,45	1.06±0.14	3±2 (7±4%)
3	PX4	B	359	-	45,45,45	1.05±0.15	3±2 (6±3%)
3	PX4	A	627	-	45,45,45	1.03±0.09	2±1 (5±2%)
3	PX4	A	614	-	45,45,45	1.10±0.10	3±1 (7±2%)
3	PX4	C	309	-	45,45,45	1.02±0.13	2±2 (5±3%)
3	PX4	C	301	-	45,45,45	1.04±0.09	3±1 (6±2%)
3	PX4	A	613	-	45,45,45	1.04±0.11	3±1 (5±2%)
3	PX4	B	343	-	45,45,45	1.04±0.14	3±2 (6±3%)
3	PX4	C	339	-	45,45,45	1.08±0.11	3±1 (6±2%)
3	PX4	A	619	-	45,45,45	1.11±0.13	3±1 (7±2%)
3	PX4	B	312	-	45,45,45	1.09±0.15	3±2 (6±4%)
3	PX4	B	379	-	45,45,45	1.10±0.10	3±1 (7±2%)
3	PX4	C	305	-	45,45,45	1.03±0.09	3±1 (6±2%)
3	PX4	C	359	-	45,45,45	1.10±0.13	3±1 (6±2%)

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of 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 angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
3	PX4	B	396	-	51,53,53	0.96±0.14	2±1 (4±2%)

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
3	PX4	A	617	-	51,53,53	0.93±0.10	2±1 (4±1%)
3	PX4	B	331	-	51,53,53	0.96±0.11	2±1 (4±2%)
3	PX4	B	329	-	51,53,53	0.93±0.09	2±1 (4±2%)
3	PX4	B	315	-	51,53,53	0.95±0.13	3±2 (5±3%)
3	PX4	C	316	-	51,53,53	0.91±0.12	2±1 (3±2%)
3	PX4	C	360	-	51,53,53	1.03±0.14	3±2 (5±2%)
3	PX4	B	366	-	51,53,53	0.96±0.10	2±1 (4±2%)
3	PX4	B	381	-	51,53,53	0.91±0.13	2±1 (3±2%)
3	PX4	C	356	-	51,53,53	0.99±0.15	2±2 (4±3%)
3	PX4	C	368	-	51,53,53	0.97±0.14	2±2 (4±3%)
3	PX4	A	618	-	51,53,53	0.94±0.17	2±2 (4±3%)
3	PX4	C	350	-	51,53,53	0.93±0.14	2±1 (4±2%)
3	PX4	A	647	-	51,53,53	0.97±0.13	3±2 (4±3%)
3	PX4	B	394	-	51,53,53	1.01±0.14	2±2 (4±3%)
3	PX4	C	306	-	51,53,53	0.97±0.09	2±1 (4±2%)
3	PX4	C	334	-	51,53,53	0.91±0.07	2±1 (3±1%)
3	PX4	A	602	-	51,53,53	0.98±0.10	3±2 (5±3%)
3	PX4	C	319	-	51,53,53	0.92±0.07	2±1 (3±1%)
3	PX4	C	310	-	51,53,53	0.91±0.10	2±1 (3±2%)
3	PX4	B	369	-	51,53,53	1.02±0.14	3±2 (5±3%)
3	PX4	C	302	-	51,53,53	0.97±0.08	2±1 (4±2%)
3	PX4	C	313	-	51,53,53	0.94±0.13	2±1 (3±2%)
3	PX4	B	385	-	51,53,53	0.93±0.10	2±1 (3±2%)
3	PX4	C	338	-	51,53,53	0.92±0.09	2±1 (3±2%)
3	PX4	A	604	-	51,53,53	0.89±0.11	1±1 (2±2%)
3	PX4	C	332	-	51,53,53	0.92±0.12	2±2 (3±3%)
3	PX4	A	620	-	51,53,53	0.96±0.09	2±1 (4±2%)
3	PX4	C	341	-	51,53,53	0.96±0.12	3±2 (4±3%)
3	PX4	A	624	-	51,53,53	0.94±0.09	2±1 (4±2%)
3	PX4	C	329	-	51,53,53	0.96±0.14	2±2 (4±3%)
3	PX4	B	347	-	51,53,53	0.95±0.12	2±1 (3±2%)
3	PX4	B	376	-	51,53,53	0.97±0.12	2±1 (4±2%)
3	PX4	C	318	-	51,53,53	0.90±0.08	2±1 (3±2%)
3	PX4	A	641	-	51,53,53	0.95±0.10	2±1 (3±2%)
3	PX4	B	309	-	51,53,53	1.00±0.11	3±2 (5±3%)

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
3	PX4	B	388	-	51,53,53	0.92±0.10	2±1 (3±2%)
3	PX4	C	320	-	51,53,53	0.93±0.11	2±1 (3±1%)
3	PX4	A	625	-	51,53,53	0.87±0.10	1±1 (2±2%)
3	PX4	C	361	-	51,53,53	0.93±0.06	2±1 (4±2%)
3	PX4	B	389	-	51,53,53	0.88±0.13	1±1 (2±2%)
3	PX4	B	339	-	51,53,53	0.97±0.13	2±1 (4±2%)
3	PX4	A	626	-	51,53,53	0.97±0.14	2±2 (4±3%)
3	PX4	B	333	-	51,53,53	0.92±0.13	2±2 (3±3%)
3	PX4	B	365	-	51,53,53	0.96±0.13	2±1 (4±2%)
3	PX4	B	368	-	51,53,53	0.92±0.09	2±1 (4±1%)
3	PX4	B	351	-	51,53,53	0.96±0.11	3±2 (5±3%)
3	PX4	C	327	-	51,53,53	0.92±0.11	2±1 (3±2%)
3	PX4	B	383	-	51,53,53	0.91±0.10	2±1 (3±2%)
3	PX4	B	311	-	51,53,53	0.96±0.13	2±2 (4±4%)
3	PX4	C	311	-	51,53,53	0.94±0.09	2±1 (3±2%)
3	PX4	A	612	-	51,53,53	0.94±0.10	2±1 (3±2%)
3	PX4	B	384	-	51,53,53	0.95±0.14	3±2 (5±3%)
3	PX4	C	325	-	51,53,53	0.93±0.12	2±2 (4±2%)
3	PX4	C	326	-	51,53,53	1.01±0.12	3±1 (5±2%)
3	PX4	A	610	-	51,53,53	0.98±0.10	3±1 (5±2%)
3	PX4	B	345	-	51,53,53	0.99±0.10	3±1 (5±2%)
3	PX4	C	353	-	51,53,53	0.92±0.10	2±1 (3±2%)
3	PX4	B	336	-	51,53,53	0.94±0.11	2±1 (3±2%)
3	PX4	C	365	-	51,53,53	0.98±0.11	2±1 (4±2%)
3	PX4	B	377	-	51,53,53	0.95±0.13	2±1 (4±2%)
3	PX4	A	629	-	51,53,53	0.95±0.12	2±1 (4±2%)
3	PX4	A	646	-	51,53,53	0.96±0.11	2±1 (3±2%)
3	PX4	B	316	-	51,53,53	0.92±0.12	2±1 (3±2%)
3	PX4	B	328	-	51,53,53	0.95±0.14	2±1 (4±2%)
3	PX4	A	608	-	51,53,53	0.94±0.11	2±1 (3±1%)
3	PX4	A	639	-	51,53,53	0.91±0.10	2±2 (3±2%)
3	PX4	B	363	-	51,53,53	0.93±0.10	2±2 (4±3%)
3	PX4	C	315	-	51,53,53	0.96±0.14	2±1 (4±2%)
3	PX4	C	363	-	51,53,53	0.91±0.15	2±1 (4±2%)
3	PX4	B	350	-	51,53,53	0.96±0.08	2±2 (4±3%)

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
3	PX4	B	330	-	51,53,53	0.93±0.11	2±1 (4±2%)
3	PX4	B	395	-	51,53,53	0.97±0.08	3±2 (5±3%)
3	PX4	C	347	-	51,53,53	0.94±0.12	2±1 (3±2%)
3	PX4	A	628	-	51,53,53	0.94±0.10	2±1 (3±2%)
3	PX4	B	301	-	51,53,53	0.95±0.08	2±1 (4±2%)
3	PX4	B	320	-	51,53,53	0.92±0.13	2±2 (4±3%)
3	PX4	B	302	-	51,53,53	0.92±0.12	2±1 (3±2%)
3	PX4	A	615	-	51,53,53	0.95±0.08	2±1 (4±2%)
3	PX4	B	340	-	51,53,53	0.97±0.06	2±1 (4±2%)
3	PX4	A	645	-	51,53,53	0.93±0.11	2±1 (3±2%)
3	PX4	B	342	-	51,53,53	0.94±0.10	2±1 (4±2%)
3	PX4	B	372	-	51,53,53	0.97±0.11	2±2 (4±2%)
3	PX4	B	325	-	51,53,53	0.95±0.08	2±1 (4±2%)
3	PX4	A	635	-	51,53,53	0.93±0.12	2±1 (3±2%)
3	PX4	C	333	-	51,53,53	0.95±0.08	2±1 (4±1%)
3	PX4	B	344	-	51,53,53	0.93±0.13	2±1 (3±2%)
3	PX4	C	357	-	51,53,53	0.95±0.12	2±2 (4±3%)
3	PX4	A	609	-	51,53,53	0.94±0.12	2±2 (4±3%)
3	PX4	B	364	-	51,53,53	0.95±0.10	2±1 (4±1%)
3	PX4	B	370	-	51,53,53	0.95±0.10	3±1 (5±2%)
3	PX4	A	642	-	51,53,53	0.95±0.13	2±1 (4±2%)
3	PX4	A	623	-	51,53,53	0.98±0.09	2±1 (4±2%)
3	PX4	C	322	-	51,53,53	0.95±0.13	3±1 (4±2%)
3	PX4	B	399	-	51,53,53	0.96±0.11	2±2 (4±3%)
3	PX4	B	382	-	51,53,53	0.95±0.10	2±1 (4±2%)
3	PX4	B	356	-	51,53,53	0.94±0.09	2±1 (3±2%)
3	PX4	C	346	-	51,53,53	0.99±0.11	2±1 (4±2%)
3	PX4	C	349	-	51,53,53	0.89±0.15	2±1 (3±2%)
3	PX4	A	601	-	51,53,53	0.98±0.10	2±1 (4±2%)
3	PX4	C	369	-	51,53,53	0.90±0.13	2±1 (3±2%)
3	PX4	A	616	-	51,53,53	0.95±0.12	2±1 (4±2%)
3	PX4	B	348	-	51,53,53	0.97±0.09	2±1 (4±1%)
3	PX4	C	331	-	51,53,53	0.96±0.09	3±1 (5±2%)
3	PX4	C	337	-	51,53,53	0.98±0.12	2±2 (4±3%)
3	PX4	C	352	-	51,53,53	0.93±0.10	2±1 (3±2%)

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
3	PX4	B	303	-	51,53,53	0.96±0.11	3±1 (5±2%)
3	PX4	C	362	-	51,53,53	0.96±0.11	2±1 (4±2%)
3	PX4	C	367	-	51,53,53	0.91±0.12	2±1 (3±2%)
3	PX4	B	398	-	51,53,53	0.98±0.11	2±1 (4±2%)
3	PX4	C	354	-	51,53,53	0.94±0.09	2±1 (4±2%)
3	PX4	B	361	-	51,53,53	0.91±0.07	1±1 (2±2%)
3	PX4	C	336	-	51,53,53	0.97±0.14	2±2 (3±3%)
3	PX4	A	638	-	51,53,53	0.88±0.10	1±1 (2±2%)
3	PX4	C	328	-	51,53,53	0.93±0.11	2±1 (3±2%)
3	PX4	B	307	-	51,53,53	0.91±0.09	2±1 (3±2%)
3	PX4	B	355	-	51,53,53	0.98±0.10	2±1 (4±2%)
3	PX4	A	634	-	51,53,53	0.98±0.10	3±1 (4±2%)
3	PX4	C	355	-	51,53,53	0.93±0.12	2±1 (3±2%)
3	PX4	B	341	-	51,53,53	0.89±0.11	2±1 (3±2%)
3	PX4	B	304	-	51,53,53	0.97±0.09	2±1 (4±2%)
3	PX4	A	611	-	51,53,53	0.91±0.15	2±2 (3±3%)
3	PX4	B	337	-	51,53,53	0.98±0.14	3±2 (5±3%)
3	PX4	C	358	-	51,53,53	0.97±0.13	2±1 (4±2%)
3	PX4	A	633	-	51,53,53	0.99±0.11	3±1 (5±2%)
3	PX4	B	362	-	51,53,53	0.96±0.13	2±2 (3±3%)
3	PX4	B	378	-	51,53,53	0.95±0.09	3±1 (5±2%)
3	PX4	C	307	-	51,53,53	0.96±0.08	2±1 (3±2%)
3	PX4	C	340	-	51,53,53	0.96±0.12	2±1 (3±2%)
3	PX4	A	632	-	51,53,53	0.92±0.10	2±1 (4±2%)
3	PX4	A	637	-	51,53,53	0.94±0.12	2±1 (3±2%)
3	PX4	B	308	-	51,53,53	0.96±0.12	3±1 (5±2%)
3	PX4	C	308	-	51,53,53	0.91±0.12	2±2 (3±2%)
3	PX4	A	622	-	51,53,53	1.00±0.11	2±2 (4±3%)
3	PX4	C	324	-	51,53,53	0.99±0.09	3±1 (4±2%)
3	PX4	B	367	-	51,53,53	0.97±0.09	2±1 (4±2%)
3	PX4	B	318	-	51,53,53	0.94±0.09	2±1 (3±2%)
3	PX4	B	327	-	51,53,53	0.98±0.15	2±2 (4±3%)
3	PX4	B	352	-	51,53,53	0.95±0.12	2±1 (3±2%)
3	PX4	A	636	-	51,53,53	0.97±0.12	2±1 (4±2%)
3	PX4	C	314	-	51,53,53	1.01±0.08	3±1 (6±2%)

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
3	PX4	A	631	-	51,53,53	0.95±0.10	2±1 (4±2%)
3	PX4	C	312	-	51,53,53	1.03±0.10	3±2 (5±3%)
3	PX4	C	317	-	51,53,53	0.95±0.10	3±1 (5±2%)
3	PX4	A	630	-	51,53,53	0.95±0.09	2±1 (4±1%)
3	PX4	B	335	-	51,53,53	0.97±0.15	2±2 (4±4%)
3	PX4	B	393	-	51,53,53	0.96±0.13	3±1 (5±2%)
3	PX4	C	345	-	51,53,53	0.97±0.12	3±2 (5±3%)
3	PX4	A	648	-	51,53,53	1.02±0.12	3±1 (6±1%)
3	PX4	B	375	-	51,53,53	0.91±0.11	2±1 (3±2%)
3	PX4	B	305	-	51,53,53	0.98±0.11	3±2 (5±3%)
3	PX4	B	306	-	51,53,53	0.93±0.12	2±2 (3±3%)
3	PX4	B	324	-	51,53,53	0.92±0.12	2±1 (3±2%)
3	PX4	B	314	-	51,53,53	0.96±0.09	2±1 (4±2%)
3	PX4	B	323	-	51,53,53	0.97±0.11	2±2 (4±3%)
3	PX4	C	364	-	51,53,53	0.97±0.10	2±1 (4±2%)
3	PX4	B	319	-	51,53,53	0.89±0.08	2±1 (3±2%)
3	PX4	B	317	-	51,53,53	0.93±0.10	2±2 (4±3%)
3	PX4	B	349	-	51,53,53	0.88±0.09	2±1 (3±1%)
3	PX4	C	343	-	51,53,53	0.93±0.11	2±2 (4±3%)
3	PX4	C	366	-	51,53,53	0.93±0.08	2±1 (3±2%)
3	PX4	A	606	-	51,53,53	0.98±0.07	2±1 (4±1%)
3	PX4	B	373	-	51,53,53	0.97±0.09	3±1 (4±2%)
3	PX4	C	304	-	51,53,53	0.97±0.13	2±2 (4±3%)
3	PX4	B	390	-	51,53,53	0.93±0.09	2±1 (3±2%)
3	PX4	C	351	-	51,53,53	0.94±0.10	2±1 (4±2%)
3	PX4	B	326	-	51,53,53	0.96±0.09	2±1 (4±2%)
3	PX4	B	400	-	51,53,53	0.97±0.11	3±1 (5±2%)
3	PX4	A	605	-	51,53,53	1.00±0.10	2±1 (4±1%)
3	PX4	A	607	-	51,53,53	0.93±0.10	2±1 (3±2%)
3	PX4	B	360	-	51,53,53	0.98±0.10	3±1 (5±2%)
3	PX4	B	334	-	51,53,53	0.96±0.14	3±2 (5±3%)
3	PX4	C	330	-	51,53,53	0.92±0.12	2±2 (4±3%)
3	PX4	B	332	-	51,53,53	0.96±0.14	2±2 (4±3%)
3	PX4	B	391	-	51,53,53	0.94±0.12	2±1 (3±2%)
3	PX4	C	344	-	51,53,53	0.94±0.11	2±1 (4±2%)

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
3	PX4	B	310	-	51,53,53	0.91±0.11	2±1 (3±2%)
3	PX4	C	342	-	51,53,53	0.98±0.15	3±1 (5±2%)
3	PX4	B	380	-	51,53,53	0.92±0.13	2±1 (4±2%)
3	PX4	B	371	-	51,53,53	0.94±0.09	2±1 (3±2%)
3	PX4	B	354	-	51,53,53	0.89±0.08	2±2 (4±3%)
3	PX4	B	353	-	51,53,53	0.94±0.06	2±1 (4±2%)
3	PX4	B	387	-	51,53,53	0.94±0.11	2±1 (4±2%)
3	PX4	B	397	-	51,53,53	0.93±0.13	2±2 (4±3%)
3	PX4	B	338	-	51,53,53	0.89±0.10	2±2 (3±3%)
3	PX4	A	643	-	51,53,53	0.95±0.12	2±1 (4±2%)
3	PX4	B	386	-	51,53,53	0.95±0.12	3±2 (5±3%)
3	PX4	A	640	-	51,53,53	0.93±0.13	2±1 (3±2%)
3	PX4	A	621	-	51,53,53	0.90±0.09	2±1 (3±1%)
3	PX4	C	303	-	51,53,53	1.00±0.07	3±1 (6±2%)
3	PX4	B	346	-	51,53,53	0.93±0.11	2±1 (4±1%)
3	PX4	B	358	-	51,53,53	0.93±0.11	2±1 (4±2%)
3	PX4	B	357	-	51,53,53	1.01±0.11	3±2 (5±3%)
3	PX4	A	644	-	51,53,53	0.94±0.13	2±1 (4±2%)
3	PX4	C	370	-	51,53,53	1.04±0.10	3±1 (5±2%)
3	PX4	A	603	-	51,53,53	0.97±0.12	2±1 (4±2%)
3	PX4	B	313	-	51,53,53	0.91±0.11	2±1 (4±2%)
3	PX4	C	348	-	51,53,53	0.94±0.11	2±1 (3±2%)
3	PX4	C	321	-	51,53,53	0.96±0.08	2±1 (4±1%)
3	PX4	B	322	-	51,53,53	0.96±0.11	2±1 (3±2%)
3	PX4	C	335	-	51,53,53	0.93±0.11	2±2 (4±3%)
3	PX4	C	323	-	51,53,53	0.98±0.11	3±2 (5±3%)
3	PX4	B	321	-	51,53,53	0.87±0.14	1±1 (2±1%)
3	PX4	B	374	-	51,53,53	0.93±0.11	2±2 (4±3%)
3	PX4	B	392	-	51,53,53	0.94±0.11	2±1 (3±2%)
3	PX4	B	359	-	51,53,53	0.96±0.08	2±1 (4±2%)
3	PX4	A	627	-	51,53,53	0.93±0.08	2±1 (4±2%)
3	PX4	A	614	-	51,53,53	0.99±0.15	3±2 (5±3%)
3	PX4	C	309	-	51,53,53	0.95±0.09	2±1 (4±2%)
3	PX4	C	301	-	51,53,53	0.92±0.10	2±2 (4±3%)
3	PX4	A	613	-	51,53,53	0.95±0.10	2±1 (4±2%)

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
3	PX4	B	343	-	51,53,53	1.00±0.14	2±2 (4±3%)
3	PX4	C	339	-	51,53,53	0.94±0.09	2±1 (4±2%)
3	PX4	A	619	-	51,53,53	0.93±0.15	2±1 (4±2%)
3	PX4	B	312	-	51,53,53	0.95±0.11	2±1 (4±2%)
3	PX4	B	379	-	51,53,53	0.98±0.12	2±2 (4±3%)
3	PX4	C	305	-	51,53,53	0.92±0.12	2±1 (3±2%)
3	PX4	C	359	-	51,53,53	0.95±0.11	2±1 (4±2%)

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	PX4	C	360	-	-	0±0,49,49,49	-
3	PX4	A	647	-	-	0±0,49,49,49	-
3	PX4	C	318	-	-	0±0,49,49,49	-
3	PX4	B	309	-	-	0±0,49,49,49	-
3	PX4	C	311	-	-	0±0,49,49,49	-
3	PX4	A	610	-	-	0±0,49,49,49	-
3	PX4	C	326	-	-	0±0,49,49,49	-
3	PX4	C	363	-	-	0±0,49,49,49	-
3	PX4	B	325	-	-	0±0,49,49,49	-
3	PX4	A	642	-	-	0±0,49,49,49	-
3	PX4	C	336	-	-	0±0,49,49,49	-
3	PX4	B	365	-	-	0±0,49,49,49	-
3	PX4	C	325	-	-	0±0,49,49,49	-
3	PX4	C	355	-	-	0±0,49,49,49	-
3	PX4	B	337	-	-	0±0,49,49,49	-
3	PX4	C	308	-	-	0±0,49,49,49	-
3	PX4	C	329	-	-	0±0,49,49,49	-
3	PX4	B	396	-	-	0±0,49,49,49	-
3	PX4	B	344	-	-	0±0,49,49,49	-
3	PX4	C	338	-	-	0±0,49,49,49	-
3	PX4	B	384	-	-	0±0,49,49,49	-
3	PX4	C	367	-	-	0±0,49,49,49	-
3	PX4	A	636	-	-	0±0,49,49,49	-
3	PX4	B	364	-	-	0±0,49,49,49	-
3	PX4	C	319	-	-	0±0,49,49,49	-
3	PX4	A	646	-	-	0±0,49,49,49	-
3	PX4	B	371	-	-	0±0,49,49,49	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PX4	C	317	-	-	0±0,49,49,49	-
3	PX4	C	328	-	-	0±0,49,49,49	-
3	PX4	C	340	-	-	0±0,49,49,49	-
3	PX4	C	351	-	-	0±0,49,49,49	-
3	PX4	B	332	-	-	0±0,49,49,49	-
3	PX4	B	318	-	-	0±0,49,49,49	-
3	PX4	B	335	-	-	0±0,49,49,49	-
3	PX4	B	323	-	-	0±0,49,49,49	-
3	PX4	C	344	-	-	0±0,49,49,49	-
3	PX4	A	637	-	-	0±0,49,49,49	-
3	PX4	B	311	-	-	0±0,49,49,49	-
3	PX4	B	350	-	-	0±0,49,49,49	-
3	PX4	A	611	-	-	0±0,49,49,49	-
3	PX4	A	615	-	-	0±0,49,49,49	-
3	PX4	B	324	-	-	0±0,49,49,49	-
3	PX4	C	369	-	-	0±0,49,49,49	-
3	PX4	B	321	-	-	0±0,49,49,49	-
3	PX4	B	374	-	-	0±0,49,49,49	-
3	PX4	A	603	-	-	0±0,49,49,49	-
3	PX4	B	338	-	-	0±0,49,49,49	-
3	PX4	C	304	-	-	0±0,49,49,49	-
3	PX4	C	303	-	-	0±0,49,49,49	-
3	PX4	A	604	-	-	0±0,49,49,49	-
3	PX4	A	633	-	-	0±0,49,49,49	-
3	PX4	B	319	-	-	0±0,49,49,49	-
3	PX4	B	316	-	-	0±0,49,49,49	-
3	PX4	B	356	-	-	0±0,49,49,49	-
3	PX4	C	322	-	-	0±0,49,49,49	-
3	PX4	B	347	-	-	0±0,49,49,49	-
3	PX4	B	366	-	-	0±0,49,49,49	-
3	PX4	C	313	-	-	0±0,49,49,49	-
3	PX4	C	350	-	-	0±0,49,49,49	-
3	PX4	B	331	-	-	0±0,49,49,49	-
3	PX4	B	399	-	-	0±0,49,49,49	-
3	PX4	B	306	-	-	0±0,49,49,49	-
3	PX4	C	349	-	-	0±0,49,49,49	-
3	PX4	B	328	-	-	0±0,49,49,49	-
3	PX4	B	340	-	-	0±0,49,49,49	-
3	PX4	B	358	-	-	0±0,49,49,49	-
3	PX4	B	359	-	-	0±0,49,49,49	-
3	PX4	A	632	-	-	0±0,49,49,49	-
3	PX4	C	331	-	-	0±0,49,49,49	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PX4	A	620	-	-	0±0,49,49,49	-
3	PX4	A	648	-	-	0±0,49,49,49	-
3	PX4	B	336	-	-	0±0,49,49,49	-
3	PX4	A	641	-	-	0±0,49,49,49	-
3	PX4	B	345	-	-	0±0,49,49,49	-
3	PX4	B	375	-	-	0±0,49,49,49	-
3	PX4	A	635	-	-	0±0,49,49,49	-
3	PX4	B	380	-	-	0±0,49,49,49	-
3	PX4	B	333	-	-	0±0,49,49,49	-
3	PX4	A	629	-	-	0±0,49,49,49	-
3	PX4	C	354	-	-	0±0,49,49,49	-
3	PX4	A	619	-	-	0±0,49,49,49	-
3	PX4	B	360	-	-	0±0,49,49,49	-
3	PX4	B	314	-	-	0±0,49,49,49	-
3	PX4	B	357	-	-	0±0,49,49,49	-
3	PX4	C	302	-	-	0±0,49,49,49	-
3	PX4	B	376	-	-	0±0,49,49,49	-
3	PX4	B	326	-	-	0±0,49,49,49	-
3	PX4	B	362	-	-	0±0,49,49,49	-
3	PX4	A	628	-	-	0±0,49,49,49	-
3	PX4	A	640	-	-	0±0,49,49,49	-
3	PX4	A	605	-	-	0±0,49,49,49	-
3	PX4	C	307	-	-	0±0,49,49,49	-
3	PX4	C	341	-	-	0±0,49,49,49	-
3	PX4	B	385	-	-	0±0,49,49,49	-
3	PX4	B	327	-	-	0±0,49,49,49	-
3	PX4	B	355	-	-	0±0,49,49,49	-
3	PX4	A	639	-	-	0±0,49,49,49	-
3	PX4	B	313	-	-	0±0,49,49,49	-
3	PX4	A	634	-	-	0±0,49,49,49	-
3	PX4	B	392	-	-	0±0,49,49,49	-
3	PX4	A	644	-	-	0±0,49,49,49	-
3	PX4	A	608	-	-	0±0,49,49,49	-
3	PX4	A	607	-	-	0±0,49,49,49	-
3	PX4	C	327	-	-	0±0,49,49,49	-
3	PX4	B	342	-	-	0±0,49,49,49	-
3	PX4	B	393	-	-	0±0,49,49,49	-
3	PX4	B	351	-	-	0±0,49,49,49	-
3	PX4	B	370	-	-	0±0,49,49,49	-
3	PX4	C	315	-	-	0±0,49,49,49	-
3	PX4	B	361	-	-	0±0,49,49,49	-
3	PX4	C	312	-	-	0±0,49,49,49	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PX4	B	381	-	-	0±0,49,49,49	-
3	PX4	A	606	-	-	0±0,49,49,49	-
3	PX4	C	343	-	-	0±0,49,49,49	-
3	PX4	A	631	-	-	0±0,49,49,49	-
3	PX4	B	373	-	-	0±0,49,49,49	-
3	PX4	A	638	-	-	0±0,49,49,49	-
3	PX4	C	314	-	-	0±0,49,49,49	-
3	PX4	A	624	-	-	0±0,49,49,49	-
3	PX4	B	302	-	-	0±0,49,49,49	-
3	PX4	A	645	-	-	0±0,49,49,49	-
3	PX4	B	386	-	-	0±0,49,49,49	-
3	PX4	B	339	-	-	0±0,49,49,49	-
3	PX4	C	324	-	-	0±0,49,49,49	-
3	PX4	C	359	-	-	0±0,49,49,49	-
3	PX4	A	625	-	-	0±0,49,49,49	-
3	PX4	C	339	-	-	0±0,49,49,49	-
3	PX4	B	310	-	-	0±0,49,49,49	-
3	PX4	C	361	-	-	0±0,49,49,49	-
3	PX4	A	626	-	-	0±0,49,49,49	-
3	PX4	C	342	-	-	0±0,49,49,49	-
3	PX4	B	377	-	-	0±0,49,49,49	-
3	PX4	C	335	-	-	0±0,49,49,49	-
3	PX4	B	398	-	-	0±0,49,49,49	-
3	PX4	C	301	-	-	0±0,49,49,49	-
3	PX4	B	329	-	-	0±0,49,49,49	-
3	PX4	B	301	-	-	0±0,49,49,49	-
3	PX4	A	609	-	-	0±0,49,49,49	-
3	PX4	C	337	-	-	0±0,49,49,49	-
3	PX4	B	391	-	-	0±0,49,49,49	-
3	PX4	B	379	-	-	0±0,49,49,49	-
3	PX4	C	309	-	-	0±0,49,49,49	-
3	PX4	C	330	-	-	0±0,49,49,49	-
3	PX4	A	618	-	-	0±0,49,49,49	-
3	PX4	B	312	-	-	0±0,49,49,49	-
3	PX4	A	643	-	-	0±0,49,49,49	-
3	PX4	B	397	-	-	0±0,49,49,49	-
3	PX4	C	348	-	-	0±0,49,49,49	-
3	PX4	B	343	-	-	0±0,49,49,49	-
3	PX4	A	623	-	-	0±0,49,49,49	-
3	PX4	A	601	-	-	0±0,49,49,49	-
3	PX4	C	334	-	-	0±0,49,49,49	-
3	PX4	B	349	-	-	0±0,49,49,49	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PX4	B	315	-	-	0±0,49,49,49	-
3	PX4	C	366	-	-	0±0,49,49,49	-
3	PX4	C	310	-	-	0±0,49,49,49	-
3	PX4	C	321	-	-	0±0,49,49,49	-
3	PX4	A	627	-	-	0±0,49,49,49	-
3	PX4	B	304	-	-	0±0,49,49,49	-
3	PX4	B	369	-	-	0±0,49,49,49	-
3	PX4	A	613	-	-	0±0,49,49,49	-
3	PX4	B	388	-	-	0±0,49,49,49	-
3	PX4	C	357	-	-	0±0,49,49,49	-
3	PX4	C	356	-	-	0±0,49,49,49	-
3	PX4	B	330	-	-	0±0,49,49,49	-
3	PX4	C	332	-	-	0±0,49,49,49	-
3	PX4	C	305	-	-	0±0,49,49,49	-
3	PX4	B	303	-	-	0±0,49,49,49	-
3	PX4	B	322	-	-	0±0,49,49,49	-
3	PX4	A	630	-	-	0±0,49,49,49	-
3	PX4	C	316	-	-	0±0,49,49,49	-
3	PX4	B	394	-	-	0±0,49,49,49	-
3	PX4	B	395	-	-	0±0,49,49,49	-
3	PX4	C	346	-	-	0±0,49,49,49	-
3	PX4	C	353	-	-	0±0,49,49,49	-
3	PX4	B	367	-	-	0±0,49,49,49	-
3	PX4	C	365	-	-	0±0,49,49,49	-
3	PX4	B	352	-	-	0±0,49,49,49	-
3	PX4	B	382	-	-	0±0,49,49,49	-
3	PX4	B	341	-	-	0±0,49,49,49	-
3	PX4	A	622	-	-	0±0,49,49,49	-
3	PX4	C	306	-	-	0±0,49,49,49	-
3	PX4	C	358	-	-	0±0,49,49,49	-
3	PX4	B	400	-	-	0±0,49,49,49	-
3	PX4	B	354	-	-	0±0,49,49,49	-
3	PX4	C	370	-	-	0±0,49,49,49	-
3	PX4	B	372	-	-	0±0,49,49,49	-
3	PX4	A	602	-	-	0±0,49,49,49	-
3	PX4	B	348	-	-	0±0,49,49,49	-
3	PX4	C	352	-	-	0±0,49,49,49	-
3	PX4	C	323	-	-	0±0,49,49,49	-
3	PX4	B	334	-	-	0±0,49,49,49	-
3	PX4	B	308	-	-	0±0,49,49,49	-
3	PX4	A	614	-	-	0±0,49,49,49	-
3	PX4	B	317	-	-	0±0,49,49,49	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PX4	C	362	-	-	0±0,49,49,49	-
3	PX4	A	617	-	-	0±0,49,49,49	-
3	PX4	B	378	-	-	0±0,49,49,49	-
3	PX4	B	368	-	-	0±0,49,49,49	-
3	PX4	B	307	-	-	0±0,49,49,49	-
3	PX4	A	612	-	-	0±0,49,49,49	-
3	PX4	B	305	-	-	0±0,49,49,49	-
3	PX4	B	363	-	-	0±0,49,49,49	-
3	PX4	B	320	-	-	0±0,49,49,49	-
3	PX4	A	621	-	-	0±0,49,49,49	-
3	PX4	B	383	-	-	0±0,49,49,49	-
3	PX4	B	387	-	-	0±0,49,49,49	-
3	PX4	C	364	-	-	0±0,49,49,49	-
3	PX4	C	345	-	-	0±0,49,49,49	-
3	PX4	C	347	-	-	0±0,49,49,49	-
3	PX4	B	390	-	-	0±0,49,49,49	-
3	PX4	C	333	-	-	0±0,49,49,49	-
3	PX4	B	353	-	-	0±0,49,49,49	-
3	PX4	C	368	-	-	0±0,49,49,49	-
3	PX4	A	616	-	-	0±0,49,49,49	-
3	PX4	B	346	-	-	0±0,49,49,49	-
3	PX4	C	320	-	-	0±0,49,49,49	-
3	PX4	B	389	-	-	0±0,49,49,49	-

All unique bond outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	307	PX4	C8-C7	5.57	1.68	1.50	9	8
3	A	629	PX4	C6-C7	5.39	1.67	1.50	9	5
3	B	379	PX4	O7-C7	5.26	1.34	1.46	7	3
3	A	609	PX4	C6-C7	5.17	1.67	1.50	15	9
3	C	325	PX4	O7-C7	5.16	1.34	1.46	9	1
3	A	622	PX4	C6-C7	5.14	1.66	1.50	3	7
3	A	613	PX4	C2-C1	5.13	1.66	1.51	2	5
3	B	304	PX4	C2-C1	5.10	1.66	1.51	6	6
3	C	309	PX4	O5-C9	5.06	1.18	1.33	10	1
3	C	330	PX4	C2-C1	5.06	1.66	1.51	15	6
3	A	637	PX4	C2-C1	5.05	1.66	1.51	13	7
3	C	349	PX4	C10-C9	5.02	1.65	1.50	3	3
3	C	338	PX4	C6-C7	5.00	1.66	1.50	3	7
3	C	340	PX4	C6-C7	4.99	1.66	1.50	9	9

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	324	PX4	C24-C23	4.99	1.65	1.50	8	2
3	C	351	PX4	C8-C7	4.98	1.66	1.50	5	8
3	C	346	PX4	C8-C7	4.96	1.66	1.50	12	7
3	B	350	PX4	C8-C7	4.94	1.66	1.50	1	7
3	B	324	PX4	C6-C7	4.93	1.66	1.50	5	6
3	C	316	PX4	C10-C9	4.90	1.64	1.50	4	3
3	A	630	PX4	O7-C7	4.88	1.35	1.46	7	3
3	B	339	PX4	C8-C7	4.88	1.66	1.50	13	10
3	B	331	PX4	C2-C1	4.86	1.66	1.51	8	5
3	C	335	PX4	O5-C9	4.86	1.19	1.33	11	2
3	C	325	PX4	C10-C9	4.86	1.64	1.50	4	4
3	C	338	PX4	C2-C1	4.86	1.66	1.51	10	4
3	A	635	PX4	O5-C8	4.85	1.56	1.45	11	2
3	B	355	PX4	C8-C7	4.85	1.66	1.50	3	7
3	B	301	PX4	C6-C7	4.84	1.65	1.50	3	8
3	B	376	PX4	O7-C7	4.82	1.35	1.46	13	4
3	B	387	PX4	O7-C7	4.82	1.35	1.46	3	3
3	B	350	PX4	C10-C9	4.82	1.64	1.50	1	7
3	C	357	PX4	C6-C7	4.81	1.65	1.50	14	3
3	C	329	PX4	C8-C7	4.79	1.65	1.50	7	6
3	B	358	PX4	O7-C7	4.77	1.35	1.46	6	5
3	C	350	PX4	C8-C7	4.77	1.65	1.50	1	8
3	B	312	PX4	O5-C8	4.76	1.55	1.45	3	1
3	B	333	PX4	O7-C7	4.75	1.35	1.46	4	3
3	B	305	PX4	C6-C7	4.75	1.65	1.50	13	5
3	B	311	PX4	O7-C7	4.75	1.35	1.46	12	5
3	C	318	PX4	C6-C7	4.74	1.65	1.50	10	3
3	C	312	PX4	C10-C9	4.74	1.64	1.50	10	4
3	A	638	PX4	C8-C7	4.70	1.65	1.50	9	5
3	C	308	PX4	O5-C8	4.70	1.55	1.45	2	2
3	C	303	PX4	C8-C7	4.70	1.65	1.50	11	7
3	B	310	PX4	C10-C9	4.69	1.64	1.50	6	5
3	C	354	PX4	C2-C1	4.69	1.65	1.51	4	5
3	B	387	PX4	O7-C23	4.68	1.21	1.34	15	3
3	B	344	PX4	C2-C1	4.67	1.65	1.51	5	7
3	B	354	PX4	C6-C7	4.66	1.65	1.50	3	5
3	B	303	PX4	C6-C7	4.65	1.65	1.50	5	7
3	A	620	PX4	C8-C7	4.64	1.65	1.50	3	8
3	B	375	PX4	C8-C7	4.63	1.65	1.50	10	7
3	A	640	PX4	C24-C23	4.63	1.64	1.50	11	4
3	B	354	PX4	C8-C7	4.62	1.65	1.50	7	9

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	341	PX4	C8-C7	4.62	1.65	1.50	8	6
3	B	306	PX4	O7-C23	4.61	1.21	1.34	12	2
3	A	609	PX4	C2-C1	4.59	1.65	1.51	15	4
3	C	336	PX4	C8-C7	4.59	1.65	1.50	10	7
3	C	313	PX4	C6-C7	4.58	1.65	1.50	4	6
3	C	354	PX4	C6-C7	4.58	1.65	1.50	5	3
3	C	302	PX4	O7-C7	4.57	1.35	1.46	3	3
3	C	317	PX4	C2-C1	4.56	1.65	1.51	5	7
3	B	314	PX4	C6-C7	4.56	1.65	1.50	7	5
3	B	385	PX4	C8-C7	4.56	1.65	1.50	1	5
3	B	400	PX4	C6-C7	4.56	1.65	1.50	5	5
3	A	636	PX4	C8-C7	4.54	1.65	1.50	8	6
3	A	620	PX4	C6-C7	4.54	1.65	1.50	8	7
3	B	353	PX4	C24-C23	4.54	1.63	1.50	4	2
3	C	327	PX4	C8-C7	4.53	1.65	1.50	6	8
3	B	336	PX4	C8-C7	4.53	1.65	1.50	7	4
3	B	312	PX4	C2-C1	4.52	1.65	1.51	6	4
3	A	611	PX4	C6-C7	4.51	1.64	1.50	11	9
3	A	640	PX4	C8-C7	4.51	1.64	1.50	15	11
3	B	395	PX4	C10-C9	4.51	1.63	1.50	13	5
3	C	321	PX4	C8-C7	4.50	1.64	1.50	14	12
3	C	315	PX4	C2-C1	4.50	1.64	1.51	15	7
3	B	383	PX4	C8-C7	4.50	1.64	1.50	5	9
3	B	365	PX4	C8-C7	4.49	1.64	1.50	5	8
3	B	360	PX4	C6-C7	4.49	1.64	1.50	1	4
3	C	346	PX4	C6-C7	4.46	1.64	1.50	7	8
3	A	608	PX4	C8-C7	4.46	1.64	1.50	7	5
3	A	624	PX4	O7-C7	4.46	1.36	1.46	6	2
3	B	331	PX4	C24-C23	4.45	1.63	1.50	5	3
3	B	328	PX4	C2-C1	4.44	1.64	1.51	9	3
3	B	338	PX4	C2-C1	4.44	1.64	1.51	2	5
3	A	645	PX4	C6-C7	4.44	1.64	1.50	1	7
3	A	646	PX4	C2-C1	4.44	1.64	1.51	2	4
3	A	614	PX4	O7-C7	4.43	1.36	1.46	3	5
3	B	307	PX4	C2-C1	4.43	1.64	1.51	3	5
3	A	632	PX4	C8-C7	4.43	1.64	1.50	13	9
3	B	317	PX4	C6-C7	4.42	1.64	1.50	11	7
3	B	333	PX4	C6-C7	4.39	1.64	1.50	2	6
3	B	345	PX4	C2-C1	4.39	1.64	1.51	6	7
3	B	396	PX4	O7-C7	4.38	1.36	1.46	2	4
3	C	347	PX4	C6-C7	4.38	1.64	1.50	4	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	325	PX4	C2-C1	4.38	1.64	1.51	12	7
3	B	357	PX4	C24-C23	4.37	1.63	1.50	15	2
3	B	336	PX4	C6-C7	4.37	1.64	1.50	10	8
3	B	352	PX4	C8-C7	4.37	1.64	1.50	10	7
3	B	352	PX4	O7-C7	4.37	1.36	1.46	13	2
3	B	333	PX4	O5-C8	4.36	1.35	1.45	15	6
3	B	333	PX4	C8-C7	4.35	1.64	1.50	4	7
3	B	354	PX4	O7-C7	4.35	1.36	1.46	2	3
3	C	360	PX4	C8-C7	4.35	1.64	1.50	1	4
3	B	372	PX4	O7-C7	4.34	1.36	1.46	4	4
3	B	384	PX4	C8-C7	4.34	1.64	1.50	13	5
3	B	348	PX4	C6-C7	4.34	1.64	1.50	4	9
3	A	617	PX4	C6-C7	4.33	1.64	1.50	13	7
3	A	622	PX4	C2-C1	4.33	1.64	1.51	2	6
3	B	372	PX4	C8-C7	4.32	1.64	1.50	4	5
3	B	338	PX4	C24-C23	4.32	1.63	1.50	4	4
3	B	367	PX4	C6-C7	4.32	1.64	1.50	10	8
3	B	312	PX4	C8-C7	4.31	1.64	1.50	1	10
3	A	615	PX4	C6-C7	4.31	1.64	1.50	14	4
3	C	321	PX4	C2-C1	4.31	1.64	1.51	14	5
3	B	336	PX4	O7-C7	4.30	1.36	1.46	11	6
3	A	635	PX4	C6-C7	4.30	1.64	1.50	7	6
3	B	301	PX4	O7-C7	4.30	1.36	1.46	7	3
3	A	604	PX4	C24-C23	4.29	1.63	1.50	7	1
3	C	317	PX4	C8-C7	4.29	1.64	1.50	6	6
3	C	318	PX4	C2-C1	4.29	1.64	1.51	3	4
3	B	315	PX4	C8-C7	4.29	1.64	1.50	3	10
3	B	346	PX4	C6-C7	4.29	1.64	1.50	9	9
3	B	392	PX4	C6-C7	4.29	1.64	1.50	4	7
3	C	370	PX4	C24-C23	4.29	1.63	1.50	13	5
3	C	302	PX4	C6-C7	4.28	1.64	1.50	12	6
3	B	355	PX4	C2-C1	4.28	1.64	1.51	4	5
3	B	350	PX4	C2-N1	4.28	1.64	1.51	12	1
3	A	621	PX4	C8-C7	4.28	1.64	1.50	12	6
3	B	341	PX4	C2-C1	4.27	1.64	1.51	1	6
3	C	314	PX4	C8-C7	4.27	1.64	1.50	13	6
3	A	615	PX4	C8-C7	4.27	1.64	1.50	3	6
3	C	308	PX4	C6-C7	4.27	1.64	1.50	4	7
3	B	374	PX4	C6-C7	4.27	1.64	1.50	11	8
3	B	386	PX4	C8-C7	4.27	1.64	1.50	14	7
3	B	324	PX4	C8-C7	4.26	1.64	1.50	2	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	393	PX4	C10-C9	4.26	1.63	1.50	4	8
3	B	317	PX4	O7-C7	4.26	1.36	1.46	2	2
3	C	327	PX4	O7-C23	4.26	1.22	1.34	4	3
3	B	394	PX4	C11-C10	4.26	1.67	1.52	5	2
3	A	635	PX4	C8-C7	4.25	1.64	1.50	5	7
3	B	388	PX4	O7-C7	4.24	1.36	1.46	2	4
3	B	353	PX4	C6-C7	4.23	1.64	1.50	9	6
3	B	389	PX4	O5-C8	4.23	1.35	1.45	2	3
3	B	325	PX4	C6-C7	4.22	1.64	1.50	11	4
3	C	305	PX4	C8-C7	4.22	1.64	1.50	3	6
3	B	331	PX4	C8-C7	4.22	1.64	1.50	3	7
3	B	334	PX4	C8-C7	4.22	1.64	1.50	11	7
3	B	391	PX4	C8-C7	4.22	1.64	1.50	5	6
3	B	304	PX4	O7-C7	4.21	1.36	1.46	8	4
3	C	349	PX4	C6-C7	4.21	1.64	1.50	5	5
3	B	391	PX4	O7-C7	4.21	1.36	1.46	3	3
3	A	624	PX4	C2-C1	4.20	1.64	1.51	10	5
3	B	395	PX4	C6-C7	4.20	1.63	1.50	12	8
3	B	390	PX4	O7-C23	4.19	1.22	1.34	15	4
3	A	633	PX4	C8-C7	4.18	1.63	1.50	11	3
3	C	316	PX4	C8-C7	4.18	1.63	1.50	14	5
3	A	613	PX4	C8-C7	4.18	1.63	1.50	13	6
3	A	610	PX4	C8-C7	4.18	1.63	1.50	2	6
3	B	321	PX4	C6-C7	4.18	1.63	1.50	1	6
3	A	644	PX4	C24-C23	4.17	1.62	1.50	9	4
3	B	382	PX4	C2-C1	4.16	1.63	1.51	9	2
3	B	365	PX4	C2-C1	4.16	1.63	1.51	10	6
3	B	387	PX4	C6-C7	4.16	1.63	1.50	8	8
3	C	345	PX4	C6-C7	4.15	1.63	1.50	2	8
3	A	615	PX4	C24-C23	4.15	1.62	1.50	13	2
3	B	332	PX4	C6-C7	4.15	1.63	1.50	11	7
3	B	345	PX4	C6-C7	4.15	1.63	1.50	2	8
3	C	344	PX4	C6-C7	4.14	1.63	1.50	8	7
3	B	347	PX4	C2-C1	4.14	1.63	1.51	2	8
3	A	619	PX4	C6-C7	4.14	1.63	1.50	15	7
3	B	309	PX4	O5-C8	4.14	1.35	1.45	14	3
3	B	319	PX4	C10-C9	4.13	1.62	1.50	14	7
3	C	364	PX4	C2-C1	4.13	1.63	1.51	4	7
3	A	647	PX4	C8-C7	4.12	1.63	1.50	11	6
3	A	636	PX4	C24-C23	4.12	1.62	1.50	3	5
3	B	301	PX4	C10-C9	4.12	1.62	1.50	13	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	340	PX4	C2-C1	4.11	1.63	1.51	11	6
3	C	337	PX4	C8-C7	4.11	1.63	1.50	9	6
3	A	624	PX4	C8-C7	4.10	1.63	1.50	6	7
3	C	323	PX4	C24-C23	4.10	1.62	1.50	11	3
3	B	325	PX4	C8-C7	4.09	1.63	1.50	9	7
3	B	327	PX4	O7-C23	4.09	1.45	1.34	11	3
3	C	334	PX4	C8-C7	4.09	1.63	1.50	6	3
3	A	617	PX4	C8-C7	4.09	1.63	1.50	3	8
3	A	646	PX4	C6-C7	4.09	1.63	1.50	4	6
3	C	339	PX4	C2-C1	4.08	1.63	1.51	14	4
3	C	350	PX4	C24-C23	4.08	1.62	1.50	1	3
3	B	314	PX4	C8-C7	4.08	1.63	1.50	3	6
3	B	394	PX4	C8-C7	4.08	1.63	1.50	10	8
3	C	330	PX4	O5-C8	4.08	1.36	1.45	12	5
3	C	368	PX4	C6-C7	4.07	1.63	1.50	7	8
3	B	369	PX4	C2-C1	4.07	1.63	1.51	9	4
3	C	307	PX4	C2-C1	4.07	1.63	1.51	10	5
3	B	388	PX4	C6-C7	4.07	1.63	1.50	3	6
3	A	632	PX4	C6-C7	4.06	1.63	1.50	7	5
3	B	365	PX4	O5-C8	4.06	1.36	1.45	6	4
3	A	619	PX4	C2-C1	4.06	1.63	1.51	4	4
3	B	371	PX4	C6-C7	4.06	1.63	1.50	6	3
3	A	621	PX4	O7-C7	4.06	1.37	1.46	14	2
3	A	607	PX4	C24-C23	4.05	1.62	1.50	13	3
3	A	616	PX4	O7-C7	4.05	1.37	1.46	7	2
3	B	388	PX4	C8-C7	4.05	1.63	1.50	1	6
3	B	320	PX4	C2-C1	4.05	1.63	1.51	3	5
3	B	377	PX4	C6-C7	4.05	1.63	1.50	1	9
3	A	628	PX4	O7-C7	4.05	1.37	1.46	6	4
3	A	646	PX4	C8-C7	4.05	1.63	1.50	15	6
3	B	352	PX4	O5-C9	4.05	1.45	1.33	14	1
3	B	392	PX4	C2-C1	4.05	1.63	1.51	8	6
3	A	606	PX4	C8-C7	4.04	1.63	1.50	4	9
3	B	399	PX4	C10-C9	4.04	1.62	1.50	15	3
3	A	618	PX4	C2-N1	4.04	1.63	1.51	4	2
3	C	364	PX4	C8-C7	4.04	1.63	1.50	3	7
3	C	361	PX4	C8-C7	4.04	1.63	1.50	15	6
3	B	394	PX4	O7-C7	4.04	1.37	1.46	7	3
3	A	624	PX4	C5-N1	4.03	1.61	1.50	3	2
3	B	400	PX4	C8-C7	4.03	1.63	1.50	13	6
3	A	641	PX4	C6-C7	4.03	1.63	1.50	2	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	366	PX4	C6-C7	4.03	1.63	1.50	11	9
3	C	310	PX4	C8-C7	4.02	1.63	1.50	10	8
3	C	349	PX4	O5-C8	4.02	1.54	1.45	8	3
3	A	626	PX4	C2-C1	4.02	1.63	1.51	3	5
3	C	354	PX4	O7-C7	4.02	1.37	1.46	2	4
3	B	341	PX4	C6-C7	4.01	1.63	1.50	2	6
3	B	357	PX4	C8-C7	4.01	1.63	1.50	13	6
3	B	361	PX4	C8-C7	4.01	1.63	1.50	2	7
3	B	317	PX4	C2-N1	4.01	1.63	1.51	7	2
3	B	352	PX4	C2-C1	4.00	1.63	1.51	9	5
3	C	320	PX4	C8-C7	4.01	1.63	1.50	4	5
3	A	613	PX4	O7-C7	4.00	1.37	1.46	7	5
3	B	329	PX4	O5-C8	4.00	1.54	1.45	1	3
3	C	322	PX4	O7-C23	4.00	1.23	1.34	1	3
3	C	352	PX4	C2-C1	4.00	1.63	1.51	12	4
3	C	354	PX4	C8-C7	4.00	1.63	1.50	13	9
3	B	378	PX4	C6-C7	4.00	1.63	1.50	5	8
3	B	392	PX4	O7-C7	4.00	1.37	1.46	10	3
3	C	367	PX4	C2-C1	3.99	1.63	1.51	13	7
3	A	642	PX4	O5-C8	3.99	1.54	1.45	12	1
3	C	339	PX4	C8-C7	3.99	1.63	1.50	15	7
3	C	342	PX4	C24-C23	3.99	1.62	1.50	5	3
3	C	366	PX4	O5-C9	3.99	1.21	1.33	11	3
3	A	608	PX4	C6-C7	3.98	1.63	1.50	4	7
3	B	338	PX4	C8-C7	3.98	1.63	1.50	15	5
3	B	349	PX4	O5-C8	3.98	1.36	1.45	4	2
3	C	334	PX4	C6-C7	3.97	1.63	1.50	3	7
3	C	366	PX4	C8-C7	3.97	1.63	1.50	14	4
3	B	336	PX4	C2-C1	3.97	1.63	1.51	13	4
3	B	383	PX4	O7-C23	3.97	1.23	1.34	9	3
3	C	323	PX4	C6-C7	3.96	1.63	1.50	4	7
3	B	397	PX4	C6-C7	3.96	1.63	1.50	11	7
3	B	318	PX4	C24-C23	3.96	1.62	1.50	12	4
3	C	314	PX4	C2-C1	3.96	1.63	1.51	15	8
3	C	344	PX4	C10-C9	3.96	1.62	1.50	2	3
3	C	327	PX4	C2-C1	3.96	1.63	1.51	14	6
3	C	370	PX4	C10-C9	3.96	1.62	1.50	13	4
3	B	352	PX4	C6-C7	3.95	1.63	1.50	1	8
3	C	338	PX4	C8-C7	3.95	1.63	1.50	10	8
3	A	626	PX4	C10-C9	3.95	1.62	1.50	8	4
3	B	329	PX4	O5-C9	3.95	1.44	1.33	1	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	363	PX4	C8-C7	3.95	1.63	1.50	2	6
3	A	642	PX4	C6-C7	3.95	1.63	1.50	11	6
3	B	373	PX4	C6-C7	3.95	1.63	1.50	6	6
3	C	320	PX4	C6-C7	3.95	1.63	1.50	1	6
3	B	376	PX4	O7-C23	3.94	1.23	1.34	8	4
3	B	379	PX4	C2-C1	3.93	1.63	1.51	13	4
3	B	384	PX4	O7-C23	3.92	1.23	1.34	4	3
3	C	306	PX4	C2-C1	3.92	1.63	1.51	4	5
3	B	356	PX4	C2-C1	3.92	1.63	1.51	7	6
3	A	619	PX4	C8-C7	3.92	1.63	1.50	9	5
3	C	349	PX4	C24-C23	3.92	1.62	1.50	3	2
3	B	396	PX4	C2-C1	3.91	1.63	1.51	15	4
3	A	638	PX4	C6-C7	3.91	1.63	1.50	4	7
3	C	329	PX4	C10-C9	3.91	1.62	1.50	7	2
3	C	360	PX4	C6-C7	3.91	1.63	1.50	10	10
3	B	327	PX4	C2-C1	3.91	1.63	1.51	1	2
3	B	398	PX4	C24-C23	3.91	1.62	1.50	11	1
3	C	302	PX4	C24-C23	3.91	1.62	1.50	10	4
3	B	360	PX4	O5-C9	3.91	1.22	1.33	13	2
3	B	311	PX4	C24-C23	3.90	1.62	1.50	2	2
3	B	355	PX4	O7-C23	3.90	1.23	1.34	15	2
3	C	347	PX4	O5-C9	3.90	1.22	1.33	7	1
3	A	643	PX4	O7-C23	3.90	1.23	1.34	1	2
3	C	314	PX4	C6-C7	3.90	1.63	1.50	7	6
3	A	615	PX4	O5-C8	3.89	1.36	1.45	15	2
3	A	616	PX4	C2-C1	3.89	1.63	1.51	13	5
3	A	648	PX4	C8-C7	3.89	1.63	1.50	7	8
3	C	348	PX4	C24-C23	3.89	1.62	1.50	5	6
3	B	337	PX4	C6-C7	3.89	1.63	1.50	2	8
3	B	329	PX4	C6-C7	3.89	1.63	1.50	2	4
3	B	396	PX4	C8-C7	3.89	1.63	1.50	7	8
3	A	640	PX4	C4-N1	3.89	1.61	1.50	8	4
3	B	363	PX4	C2-C1	3.88	1.63	1.51	6	5
3	C	350	PX4	O5-C9	3.88	1.22	1.33	8	4
3	B	366	PX4	C8-C7	3.88	1.63	1.50	5	8
3	C	365	PX4	C24-C23	3.88	1.62	1.50	12	4
3	B	310	PX4	C8-C7	3.88	1.62	1.50	12	8
3	A	640	PX4	O5-C8	3.88	1.36	1.45	8	5
3	B	318	PX4	C8-C7	3.87	1.62	1.50	12	9
3	B	343	PX4	O5-C8	3.87	1.53	1.45	13	3
3	C	332	PX4	C8-C7	3.87	1.62	1.50	12	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	329	PX4	C2-N1	3.87	1.63	1.51	7	4
3	B	323	PX4	C24-C23	3.86	1.61	1.50	8	1
3	C	310	PX4	C6-C7	3.86	1.62	1.50	1	6
3	C	313	PX4	C8-C7	3.86	1.62	1.50	14	8
3	C	330	PX4	C8-C7	3.86	1.62	1.50	14	9
3	A	648	PX4	O7-C7	3.85	1.37	1.46	9	6
3	B	318	PX4	O7-C23	3.85	1.23	1.34	5	1
3	C	345	PX4	O7-C7	3.85	1.37	1.46	5	3
3	C	359	PX4	O7-C7	3.85	1.37	1.46	7	6
3	B	396	PX4	C6-C7	3.85	1.62	1.50	4	4
3	C	308	PX4	C8-C7	3.85	1.62	1.50	12	6
3	C	328	PX4	C24-C23	3.85	1.39	1.50	15	2
3	C	323	PX4	C8-C7	3.85	1.62	1.50	12	8
3	C	350	PX4	O7-C7	3.85	1.37	1.46	12	3
3	C	326	PX4	C2-C1	3.85	1.63	1.51	1	3
3	B	359	PX4	C6-C7	3.84	1.62	1.50	1	9
3	B	384	PX4	C6-C7	3.84	1.62	1.50	2	5
3	C	344	PX4	C8-C7	3.84	1.62	1.50	2	6
3	A	602	PX4	C2-C1	3.84	1.62	1.51	15	6
3	A	643	PX4	C2-C1	3.84	1.62	1.51	3	4
3	B	306	PX4	C10-C9	3.84	1.61	1.50	6	4
3	A	602	PX4	O7-C7	3.84	1.37	1.46	13	3
3	B	309	PX4	C8-C7	3.84	1.62	1.50	9	6
3	C	323	PX4	O5-C8	3.84	1.36	1.45	12	3
3	C	316	PX4	O7-C7	3.83	1.55	1.46	11	1
3	C	336	PX4	C2-C1	3.84	1.62	1.51	9	6
3	B	328	PX4	C6-C7	3.83	1.62	1.50	9	6
3	A	631	PX4	C24-C23	3.83	1.61	1.50	1	1
3	B	343	PX4	C2-C1	3.82	1.62	1.51	3	5
3	B	343	PX4	C8-C7	3.82	1.62	1.50	11	8
3	B	353	PX4	C8-C7	3.82	1.62	1.50	7	6
3	B	354	PX4	C4-N1	3.82	1.61	1.50	11	1
3	B	364	PX4	C24-C23	3.82	1.61	1.50	14	3
3	B	375	PX4	C2-C1	3.82	1.62	1.51	6	5
3	B	397	PX4	O7-C7	3.82	1.37	1.46	11	4
3	A	617	PX4	C4-N1	3.82	1.38	1.50	13	3
3	C	321	PX4	O5-C9	3.82	1.44	1.33	6	2
3	B	340	PX4	O5-C9	3.81	1.44	1.33	6	3
3	C	359	PX4	C6-C7	3.81	1.62	1.50	10	6
3	C	307	PX4	C8-C7	3.81	1.62	1.50	5	6
3	C	343	PX4	O7-C7	3.81	1.37	1.46	3	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	614	PX4	C6-C7	3.81	1.62	1.50	12	9
3	B	376	PX4	C8-C7	3.80	1.62	1.50	14	7
3	B	399	PX4	O5-C8	3.80	1.36	1.45	8	4
3	A	603	PX4	C8-C7	3.80	1.62	1.50	1	7
3	B	306	PX4	C6-C7	3.80	1.62	1.50	12	8
3	B	368	PX4	C8-C7	3.79	1.62	1.50	3	11
3	A	626	PX4	C8-C7	3.79	1.62	1.50	12	5
3	A	601	PX4	C10-C9	3.79	1.61	1.50	12	5
3	B	331	PX4	C6-C7	3.79	1.62	1.50	7	7
3	C	328	PX4	C8-C7	3.79	1.62	1.50	6	9
3	C	337	PX4	C6-C7	3.79	1.62	1.50	5	4
3	C	301	PX4	C2-C1	3.79	1.62	1.51	9	5
3	B	366	PX4	C2-N1	3.79	1.39	1.51	2	4
3	B	381	PX4	C2-C1	3.79	1.62	1.51	6	5
3	C	349	PX4	C2-C1	3.79	1.62	1.51	13	6
3	A	608	PX4	C24-C23	3.78	1.61	1.50	13	5
3	B	380	PX4	C6-C7	3.78	1.62	1.50	11	11
3	B	373	PX4	C8-C7	3.78	1.62	1.50	12	7
3	B	327	PX4	O7-C7	3.78	1.37	1.46	8	3
3	C	355	PX4	C8-C7	3.78	1.62	1.50	14	8
3	B	381	PX4	C4-N1	3.77	1.39	1.50	1	3
3	B	304	PX4	O5-C9	3.77	1.44	1.33	1	4
3	B	340	PX4	C10-C9	3.77	1.61	1.50	3	4
3	B	366	PX4	O7-C7	3.77	1.37	1.46	4	2
3	B	390	PX4	O5-C9	3.77	1.44	1.33	2	2
3	C	345	PX4	C8-C7	3.76	1.62	1.50	3	8
3	C	355	PX4	O7-C23	3.76	1.23	1.34	7	1
3	A	636	PX4	C6-C7	3.76	1.62	1.50	10	5
3	B	340	PX4	C2-C1	3.76	1.62	1.51	8	4
3	B	306	PX4	C8-C7	3.76	1.62	1.50	8	6
3	B	335	PX4	C8-C7	3.76	1.62	1.50	11	6
3	B	366	PX4	C24-C23	3.76	1.61	1.50	15	3
3	B	312	PX4	C10-C9	3.75	1.61	1.50	14	5
3	B	349	PX4	C2-C1	3.75	1.62	1.51	14	4
3	A	629	PX4	C8-C7	3.75	1.62	1.50	13	8
3	C	345	PX4	C2-C1	3.75	1.62	1.51	9	7
3	C	370	PX4	C8-C7	3.75	1.62	1.50	14	7
3	B	363	PX4	O7-C7	3.75	1.37	1.46	2	2
3	B	380	PX4	O5-C8	3.75	1.53	1.45	15	2
3	C	320	PX4	O5-C8	3.74	1.36	1.45	7	4
3	B	328	PX4	C10-C9	3.74	1.61	1.50	8	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	332	PX4	C8-C7	3.74	1.62	1.50	12	4
3	C	320	PX4	C2-N1	3.74	1.62	1.51	6	3
3	A	643	PX4	C6-C7	3.74	1.62	1.50	12	4
3	B	308	PX4	O5-C9	3.74	1.22	1.33	11	2
3	B	363	PX4	C24-C23	3.73	1.61	1.50	8	7
3	B	380	PX4	C2-C1	3.73	1.62	1.51	1	4
3	A	643	PX4	C8-C7	3.73	1.62	1.50	8	5
3	A	612	PX4	C8-C7	3.73	1.62	1.50	14	7
3	A	621	PX4	C11-C10	3.73	1.65	1.52	8	2
3	A	640	PX4	C2-C1	3.73	1.62	1.51	15	3
3	A	619	PX4	O7-C7	3.72	1.37	1.46	13	7
3	B	359	PX4	C10-C9	3.72	1.61	1.50	3	2
3	B	370	PX4	C8-C7	3.72	1.62	1.50	1	5
3	C	304	PX4	C6-C7	3.72	1.62	1.50	1	7
3	B	392	PX4	O5-C8	3.72	1.53	1.45	11	3
3	A	606	PX4	C6-C7	3.72	1.62	1.50	8	6
3	A	638	PX4	C25-C24	3.72	1.65	1.52	13	3
3	C	327	PX4	C6-C7	3.71	1.62	1.50	9	4
3	B	356	PX4	C8-C7	3.71	1.62	1.50	5	8
3	B	316	PX4	C6-C7	3.71	1.62	1.50	4	7
3	C	321	PX4	C10-C9	3.71	1.61	1.50	11	3
3	A	635	PX4	O7-C7	3.71	1.37	1.46	6	4
3	B	351	PX4	C6-C7	3.71	1.62	1.50	10	5
3	B	364	PX4	C2-C1	3.71	1.62	1.51	13	6
3	A	605	PX4	O7-C7	3.70	1.37	1.46	5	5
3	A	610	PX4	O5-C8	3.70	1.36	1.45	11	2
3	B	313	PX4	C8-C7	3.70	1.62	1.50	13	6
3	C	344	PX4	O7-C23	3.70	1.23	1.34	11	3
3	B	345	PX4	C8-C7	3.70	1.62	1.50	13	6
3	C	350	PX4	C6-C7	3.70	1.62	1.50	5	6
3	B	330	PX4	C2-N1	3.70	1.62	1.51	6	1
3	C	357	PX4	O7-C7	3.70	1.37	1.46	14	3
3	A	628	PX4	C24-C23	3.69	1.61	1.50	2	4
3	A	639	PX4	O5-C8	3.69	1.36	1.45	13	4
3	B	321	PX4	C8-C7	3.69	1.62	1.50	15	7
3	B	355	PX4	C6-C7	3.69	1.62	1.50	2	6
3	C	331	PX4	C6-C7	3.69	1.62	1.50	3	7
3	B	319	PX4	C6-C7	3.69	1.62	1.50	8	6
3	C	367	PX4	C8-C7	3.69	1.62	1.50	9	6
3	A	630	PX4	C8-C7	3.69	1.62	1.50	8	9
3	A	603	PX4	O7-C23	3.68	1.23	1.34	10	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	349	PX4	O5-C9	3.68	1.22	1.33	3	5
3	C	331	PX4	C25-C24	3.68	1.65	1.52	15	2
3	C	369	PX4	C10-C9	3.68	1.61	1.50	13	6
3	B	381	PX4	C8-C7	3.68	1.62	1.50	12	6
3	C	352	PX4	C8-C7	3.68	1.62	1.50	14	7
3	B	339	PX4	C6-C7	3.67	1.62	1.50	11	8
3	B	391	PX4	C10-C9	3.67	1.61	1.50	1	6
3	A	616	PX4	C10-C9	3.67	1.61	1.50	13	3
3	B	313	PX4	C6-C7	3.67	1.62	1.50	11	8
3	B	320	PX4	C8-C7	3.67	1.62	1.50	13	7
3	C	369	PX4	O7-C23	3.67	1.23	1.34	3	3
3	C	310	PX4	C10-C9	3.67	1.61	1.50	8	3
3	B	387	PX4	C2-N1	3.66	1.62	1.51	12	3
3	C	302	PX4	C8-C7	3.66	1.62	1.50	8	8
3	C	305	PX4	O5-C8	3.66	1.53	1.45	9	1
3	C	362	PX4	O5-C8	3.66	1.37	1.45	4	3
3	A	618	PX4	C8-C7	3.66	1.62	1.50	14	5
3	A	643	PX4	O7-C7	3.66	1.38	1.46	3	3
3	C	340	PX4	C10-C9	3.66	1.61	1.50	6	3
3	B	302	PX4	C2-C1	3.65	1.62	1.51	11	4
3	B	334	PX4	C6-C7	3.65	1.62	1.50	6	5
3	B	313	PX4	C10-C9	3.65	1.61	1.50	10	2
3	B	373	PX4	C2-C1	3.65	1.62	1.51	8	8
3	A	640	PX4	O7-C7	3.65	1.38	1.46	4	4
3	C	348	PX4	C2-C1	3.65	1.62	1.51	1	6
3	B	371	PX4	C2-C1	3.64	1.62	1.51	12	3
3	B	384	PX4	C2-C1	3.64	1.62	1.51	10	6
3	B	336	PX4	C24-C23	3.64	1.61	1.50	15	4
3	C	328	PX4	C2-C1	3.64	1.62	1.51	10	4
3	C	357	PX4	C8-C7	3.64	1.62	1.50	11	10
3	C	320	PX4	C2-C1	3.63	1.62	1.51	1	3
3	B	390	PX4	C8-C7	3.63	1.62	1.50	10	7
3	C	332	PX4	O7-C23	3.63	1.24	1.34	5	1
3	C	342	PX4	O7-C7	3.63	1.38	1.46	5	4
3	B	335	PX4	C2-C1	3.63	1.62	1.51	4	5
3	C	346	PX4	C2-C1	3.63	1.62	1.51	7	6
3	A	617	PX4	C24-C23	3.62	1.61	1.50	15	4
3	B	301	PX4	C8-C7	3.62	1.62	1.50	6	7
3	B	382	PX4	C6-C7	3.63	1.62	1.50	2	3
3	B	391	PX4	C2-C1	3.62	1.62	1.51	2	5
3	C	311	PX4	C8-C7	3.62	1.62	1.50	8	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	366	PX4	C6-C7	3.62	1.62	1.50	2	7
3	B	367	PX4	C2-C1	3.62	1.62	1.51	1	6
3	C	319	PX4	C24-C23	3.62	1.61	1.50	9	2
3	A	647	PX4	C10-C9	3.62	1.61	1.50	1	4
3	A	625	PX4	C6-C7	3.62	1.62	1.50	15	8
3	A	631	PX4	C8-C7	3.62	1.62	1.50	10	7
3	B	314	PX4	C10-C9	3.62	1.61	1.50	14	3
3	C	332	PX4	C6-C7	3.62	1.62	1.50	14	10
3	B	334	PX4	C2-C1	3.61	1.62	1.51	8	3
3	C	370	PX4	C6-C7	3.62	1.62	1.50	1	5
3	B	371	PX4	C24-C23	3.61	1.61	1.50	10	3
3	B	398	PX4	C6-C7	3.61	1.62	1.50	9	6
3	C	308	PX4	O7-C7	3.61	1.38	1.46	11	4
3	A	646	PX4	C24-C23	3.61	1.61	1.50	1	5
3	C	343	PX4	C8-C7	3.61	1.62	1.50	5	6
3	B	394	PX4	C6-C7	3.61	1.62	1.50	15	3
3	C	353	PX4	O5-C9	3.61	1.43	1.33	4	3
3	A	605	PX4	C6-C7	3.60	1.62	1.50	3	6
3	C	360	PX4	O5-C8	3.60	1.37	1.45	13	2
3	B	335	PX4	C10-C9	3.60	1.61	1.50	6	3
3	C	311	PX4	O5-C8	3.60	1.37	1.45	3	1
3	C	339	PX4	O7-C7	3.60	1.55	1.46	11	4
3	B	357	PX4	O5-C8	3.60	1.37	1.45	12	2
3	B	315	PX4	C10-C9	3.59	1.61	1.50	14	1
3	A	604	PX4	O7-C23	3.59	1.24	1.34	4	1
3	B	315	PX4	C2-C1	3.59	1.62	1.51	12	6
3	B	400	PX4	C2-C1	3.59	1.62	1.51	11	5
3	C	369	PX4	C8-C7	3.59	1.62	1.50	10	5
3	B	310	PX4	C6-C7	3.59	1.62	1.50	4	8
3	A	648	PX4	C6-C7	3.58	1.62	1.50	2	6
3	B	359	PX4	C2-C1	3.58	1.62	1.51	15	7
3	A	641	PX4	C4-N1	3.58	1.60	1.50	8	1
3	C	314	PX4	C2-N1	3.58	1.62	1.51	8	2
3	B	312	PX4	C6-C7	3.58	1.62	1.50	4	6
3	B	314	PX4	P1-O4	3.58	1.45	1.59	6	1
3	C	363	PX4	O7-C7	3.58	1.38	1.46	5	2
3	A	601	PX4	C6-C7	3.58	1.62	1.50	7	4
3	B	352	PX4	C5-N1	3.57	1.60	1.50	8	2
3	A	604	PX4	C8-C7	3.57	1.62	1.50	7	4
3	A	630	PX4	C6-C7	3.57	1.62	1.50	4	6
3	A	644	PX4	C8-C7	3.57	1.62	1.50	1	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	397	PX4	C2-C1	3.57	1.62	1.51	14	7
3	C	337	PX4	O7-C23	3.57	1.24	1.34	15	2
3	A	611	PX4	O7-C23	3.57	1.24	1.34	3	1
3	A	643	PX4	C24-C23	3.57	1.61	1.50	6	3
3	B	307	PX4	C6-C7	3.57	1.62	1.50	8	7
3	C	313	PX4	C10-C9	3.57	1.61	1.50	15	6
3	A	648	PX4	C2-C1	3.56	1.62	1.51	14	4
3	A	617	PX4	O7-C23	3.56	1.24	1.34	1	2
3	C	305	PX4	C10-C9	3.56	1.61	1.50	4	4
3	C	325	PX4	C6-C7	3.56	1.61	1.50	10	9
3	C	341	PX4	C6-C7	3.56	1.61	1.50	13	5
3	A	614	PX4	C8-C7	3.56	1.61	1.50	13	4
3	B	318	PX4	C2-C1	3.56	1.62	1.51	6	5
3	C	332	PX4	O5-C8	3.56	1.37	1.45	15	3
3	B	376	PX4	C6-C7	3.55	1.61	1.50	4	6
3	B	380	PX4	O7-C7	3.55	1.38	1.46	1	2
3	B	367	PX4	C24-C23	3.55	1.61	1.50	12	3
3	C	312	PX4	C8-C7	3.55	1.61	1.50	13	8
3	B	314	PX4	C2-C1	3.55	1.62	1.51	8	8
3	B	333	PX4	C2-C1	3.55	1.62	1.51	12	5
3	B	398	PX4	O7-C7	3.55	1.38	1.46	7	3
3	C	309	PX4	C8-C7	3.55	1.61	1.50	6	7
3	C	325	PX4	C24-C23	3.55	1.61	1.50	7	4
3	B	316	PX4	C10-C9	3.54	1.61	1.50	6	5
3	A	639	PX4	C6-C7	3.54	1.61	1.50	4	4
3	C	331	PX4	O7-C7	3.54	1.38	1.46	7	2
3	C	323	PX4	C2-C1	3.54	1.62	1.51	3	5
3	B	320	PX4	C6-C7	3.54	1.61	1.50	3	5
3	B	327	PX4	C24-C23	3.53	1.61	1.50	15	5
3	C	333	PX4	C8-C7	3.53	1.61	1.50	2	12
3	C	335	PX4	C8-C7	3.53	1.61	1.50	15	7
3	A	633	PX4	O7-C7	3.53	1.38	1.46	14	3
3	C	365	PX4	C2-C1	3.53	1.62	1.51	9	4
3	B	328	PX4	C8-C7	3.52	1.61	1.50	3	8
3	C	323	PX4	C10-C9	3.52	1.60	1.50	7	4
3	B	379	PX4	C6-C7	3.52	1.61	1.50	3	7
3	A	612	PX4	C24-C23	3.52	1.60	1.50	14	2
3	B	359	PX4	C24-C23	3.52	1.60	1.50	15	3
3	C	353	PX4	C2-C1	3.52	1.62	1.51	15	4
3	A	634	PX4	C6-C7	3.51	1.61	1.50	13	5
3	C	301	PX4	C24-C23	3.51	1.60	1.50	11	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	305	PX4	O5-C8	3.51	1.37	1.45	1	1
3	B	327	PX4	C6-C7	3.51	1.61	1.50	6	7
3	B	309	PX4	C6-C7	3.51	1.61	1.50	6	4
3	B	330	PX4	C6-C7	3.51	1.61	1.50	15	6
3	C	346	PX4	C2-N1	3.51	1.62	1.51	2	5
3	B	323	PX4	C8-C7	3.50	1.61	1.50	8	7
3	A	616	PX4	C8-C7	3.50	1.61	1.50	6	8
3	B	337	PX4	C4-N1	3.50	1.39	1.50	5	2
3	B	369	PX4	O5-C8	3.50	1.37	1.45	9	5
3	A	610	PX4	C5-N1	3.50	1.39	1.50	2	2
3	C	350	PX4	C2-C1	3.50	1.61	1.51	9	5
3	B	346	PX4	C3-N1	3.50	1.39	1.50	7	1
3	A	618	PX4	C10-C9	3.49	1.60	1.50	14	2
3	B	358	PX4	C8-C7	3.49	1.61	1.50	8	4
3	B	377	PX4	C2-C1	3.49	1.61	1.51	10	6
3	B	311	PX4	C8-C7	3.49	1.61	1.50	15	6
3	B	323	PX4	C10-C9	3.49	1.60	1.50	10	2
3	B	332	PX4	C2-C1	3.49	1.61	1.51	9	6
3	B	367	PX4	C10-C9	3.49	1.60	1.50	2	3
3	B	361	PX4	C10-C9	3.49	1.60	1.50	1	3
3	C	301	PX4	C8-C7	3.49	1.61	1.50	5	7
3	B	322	PX4	C8-C7	3.48	1.61	1.50	6	2
3	B	376	PX4	O5-C9	3.48	1.43	1.33	2	2
3	C	328	PX4	C10-C9	3.48	1.60	1.50	8	1
3	B	387	PX4	C10-C9	3.48	1.60	1.50	6	2
3	B	384	PX4	O7-C7	3.48	1.38	1.46	14	2
3	C	339	PX4	O5-C8	3.48	1.37	1.45	10	3
3	B	337	PX4	C8-C7	3.48	1.61	1.50	10	8
3	B	369	PX4	O7-C23	3.48	1.24	1.34	4	2
3	A	633	PX4	O7-C23	3.47	1.24	1.34	6	2
3	B	358	PX4	C6-C7	3.47	1.61	1.50	1	7
3	C	341	PX4	C10-C9	3.47	1.60	1.50	3	7
3	B	350	PX4	C6-C7	3.47	1.61	1.50	9	6
3	B	351	PX4	C10-C9	3.47	1.60	1.50	10	4
3	C	321	PX4	O7-C7	3.47	1.38	1.46	12	1
3	A	633	PX4	C11-C10	3.47	1.64	1.52	2	2
3	B	394	PX4	C10-C9	3.46	1.60	1.50	15	2
3	B	304	PX4	C24-C23	3.46	1.60	1.50	6	5
3	C	319	PX4	C6-C7	3.46	1.61	1.50	14	6
3	A	614	PX4	C2-C1	3.46	1.61	1.51	15	4
3	B	311	PX4	C2-C1	3.46	1.61	1.51	1	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	356	PX4	C2-C1	3.46	1.61	1.51	3	7
3	A	628	PX4	C8-C7	3.46	1.61	1.50	8	6
3	B	339	PX4	C2-N1	3.46	1.62	1.51	6	1
3	B	340	PX4	O7-C23	3.46	1.24	1.34	9	2
3	B	395	PX4	C8-C7	3.46	1.61	1.50	3	5
3	C	363	PX4	O7-C23	3.46	1.24	1.34	2	2
3	B	397	PX4	C10-C9	3.45	1.60	1.50	9	5
3	B	367	PX4	C8-C7	3.45	1.61	1.50	6	7
3	A	632	PX4	C2-N1	3.45	1.62	1.51	8	2
3	A	633	PX4	O5-C9	3.45	1.23	1.33	4	5
3	A	639	PX4	C3-N1	3.45	1.40	1.50	10	1
3	A	641	PX4	C2-C1	3.45	1.61	1.51	11	6
3	A	603	PX4	O7-C7	3.44	1.38	1.46	4	4
3	C	353	PX4	C18-C17	3.44	1.68	1.51	4	1
3	B	338	PX4	C10-C9	3.44	1.60	1.50	7	4
3	C	317	PX4	C24-C23	3.44	1.60	1.50	3	3
3	A	614	PX4	C25-C24	3.44	1.64	1.52	11	2
3	C	363	PX4	C24-C23	3.43	1.60	1.50	7	4
3	C	349	PX4	C25-C24	3.43	1.64	1.52	2	4
3	B	399	PX4	C24-C23	3.43	1.60	1.50	6	3
3	C	323	PX4	O7-C7	3.43	1.38	1.46	12	3
3	B	334	PX4	C10-C9	3.43	1.60	1.50	6	4
3	B	323	PX4	O5-C9	3.43	1.23	1.33	10	2
3	B	357	PX4	C2-C1	3.43	1.61	1.51	11	3
3	B	365	PX4	C24-C23	3.42	1.60	1.50	11	3
3	B	378	PX4	C8-C7	3.42	1.61	1.50	6	2
3	C	315	PX4	O7-C7	3.42	1.38	1.46	11	3
3	C	321	PX4	C2-N1	3.42	1.61	1.51	14	1
3	C	334	PX4	C10-C9	3.42	1.60	1.50	4	2
3	A	602	PX4	O5-C8	3.42	1.52	1.45	1	3
3	A	620	PX4	O5-C8	3.42	1.52	1.45	11	2
3	B	326	PX4	C8-C7	3.42	1.61	1.50	1	8
3	B	346	PX4	O7-C7	3.42	1.38	1.46	3	4
3	C	335	PX4	O5-C8	3.42	1.52	1.45	6	4
3	B	342	PX4	C6-C7	3.42	1.61	1.50	3	3
3	C	312	PX4	O5-C8	3.41	1.52	1.45	3	4
3	A	637	PX4	O7-C7	3.41	1.54	1.46	7	5
3	B	361	PX4	C4-N1	3.41	1.40	1.50	11	1
3	A	627	PX4	C8-C7	3.41	1.61	1.50	7	7
3	C	318	PX4	C8-C7	3.41	1.61	1.50	14	6
3	C	329	PX4	C24-C23	3.41	1.60	1.50	13	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	370	PX4	C2-C1	3.41	1.61	1.51	11	7
3	C	304	PX4	C24-C23	3.41	1.60	1.50	15	4
3	A	607	PX4	C10-C9	3.40	1.60	1.50	10	3
3	B	344	PX4	O7-C23	3.40	1.24	1.34	8	3
3	C	362	PX4	O7-C7	3.40	1.38	1.46	13	2
3	A	625	PX4	C8-C7	3.40	1.61	1.50	8	7
3	A	644	PX4	C3-N1	3.40	1.40	1.50	9	2
3	C	303	PX4	C24-C23	3.40	1.60	1.50	12	3
3	C	356	PX4	C8-C7	3.40	1.61	1.50	8	7
3	A	633	PX4	C24-C23	3.40	1.60	1.50	12	4
3	A	635	PX4	C3-N1	3.40	1.40	1.50	13	1
3	A	645	PX4	C2-C1	3.40	1.61	1.51	1	7
3	A	612	PX4	C6-C7	3.40	1.61	1.50	2	5
3	B	323	PX4	C25-C24	3.39	1.64	1.52	11	1
3	C	303	PX4	C2-C1	3.39	1.61	1.51	5	7
3	B	372	PX4	C10-C9	3.39	1.60	1.50	3	1
3	B	380	PX4	C5-N1	3.39	1.59	1.50	7	3
3	B	351	PX4	C24-C23	3.39	1.60	1.50	9	4
3	C	301	PX4	O7-C23	3.39	1.24	1.34	5	3
3	B	383	PX4	O7-C7	3.39	1.38	1.46	10	1
3	B	390	PX4	C6-C7	3.39	1.61	1.50	7	8
3	C	350	PX4	C25-C24	3.39	1.64	1.52	11	4
3	C	311	PX4	C24-C23	3.39	1.60	1.50	10	2
3	A	605	PX4	O5-C8	3.38	1.52	1.45	5	2
3	A	608	PX4	C10-C9	3.38	1.60	1.50	12	3
3	B	356	PX4	C10-C9	3.38	1.60	1.50	13	2
3	B	374	PX4	C10-C9	3.38	1.60	1.50	4	3
3	C	342	PX4	C6-C7	3.38	1.61	1.50	4	6
3	B	377	PX4	C8-C7	3.38	1.61	1.50	8	7
3	A	641	PX4	C10-C9	3.38	1.60	1.50	13	2
3	B	322	PX4	C24-C23	3.38	1.60	1.50	14	5
3	C	317	PX4	C10-C9	3.38	1.60	1.50	13	2
3	B	371	PX4	C8-C7	3.38	1.61	1.50	11	7
3	C	322	PX4	C8-C7	3.38	1.61	1.50	1	7
3	A	637	PX4	O5-C8	3.37	1.37	1.45	6	1
3	C	337	PX4	O5-C9	3.37	1.23	1.33	13	2
3	C	353	PX4	O7-C23	3.37	1.24	1.34	1	3
3	A	621	PX4	C2-C1	3.37	1.61	1.51	5	7
3	A	602	PX4	C24-C23	3.37	1.60	1.50	5	1
3	B	308	PX4	C8-C7	3.37	1.61	1.50	2	6
3	C	351	PX4	O7-C7	3.37	1.38	1.46	4	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	336	PX4	C5-N1	3.37	1.40	1.50	15	2
3	B	346	PX4	O5-C9	3.37	1.43	1.33	4	2
3	C	321	PX4	C6-C7	3.37	1.61	1.50	8	5
3	A	604	PX4	C6-C7	3.37	1.61	1.50	12	6
3	C	352	PX4	C24-C23	3.37	1.60	1.50	9	4
3	C	366	PX4	C2-C1	3.37	1.61	1.51	11	2
3	B	349	PX4	C24-C23	3.37	1.60	1.50	3	5
3	B	349	PX4	O7-C7	3.37	1.38	1.46	11	3
3	B	387	PX4	C8-C7	3.36	1.61	1.50	14	11
3	A	620	PX4	O5-C9	3.36	1.43	1.33	8	2
3	A	627	PX4	C25-C24	3.36	1.64	1.52	3	1
3	B	324	PX4	O7-C23	3.36	1.24	1.34	10	3
3	B	333	PX4	C10-C9	3.36	1.60	1.50	7	4
3	B	303	PX4	O7-C7	3.36	1.38	1.46	11	2
3	B	342	PX4	C10-C9	3.36	1.60	1.50	9	2
3	B	307	PX4	O5-C9	3.35	1.23	1.33	1	1
3	C	339	PX4	C11-C10	3.35	1.64	1.52	8	3
3	B	326	PX4	C2-C1	3.35	1.61	1.51	8	5
3	B	358	PX4	C2-C1	3.35	1.61	1.51	14	9
3	B	385	PX4	C6-C7	3.35	1.61	1.50	7	4
3	C	315	PX4	C4-N1	3.35	1.59	1.50	14	1
3	C	356	PX4	O7-C23	3.35	1.24	1.34	1	2
3	C	358	PX4	O7-C23	3.35	1.24	1.34	1	4
3	B	375	PX4	O5-C8	3.35	1.52	1.45	7	3
3	C	324	PX4	C6-C7	3.35	1.61	1.50	4	4
3	B	308	PX4	C6-C7	3.34	1.61	1.50	12	4
3	B	393	PX4	C2-C1	3.34	1.61	1.51	11	5
3	B	388	PX4	C11-C10	3.34	1.64	1.52	8	2
3	A	617	PX4	C10-C9	3.34	1.60	1.50	5	3
3	B	397	PX4	C24-C23	3.34	1.60	1.50	11	5
3	A	645	PX4	O7-C7	3.34	1.38	1.46	6	2
3	B	396	PX4	O7-C23	3.34	1.24	1.34	13	1
3	C	304	PX4	C2-C1	3.34	1.61	1.51	9	6
3	C	335	PX4	C2-C1	3.34	1.61	1.51	6	5
3	B	369	PX4	C10-C9	3.34	1.60	1.50	10	4
3	A	621	PX4	O5-C9	3.33	1.23	1.33	13	4
3	A	645	PX4	O5-C9	3.33	1.43	1.33	8	1
3	C	307	PX4	C11-C10	3.33	1.64	1.52	13	2
3	C	359	PX4	C24-C23	3.33	1.60	1.50	9	1
3	B	399	PX4	C6-C7	3.33	1.61	1.50	9	7
3	C	334	PX4	C2-C1	3.33	1.61	1.51	5	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	381	PX4	O7-C7	3.33	1.38	1.46	2	2
3	C	320	PX4	C10-C9	3.33	1.60	1.50	9	3
3	C	362	PX4	C2-C1	3.33	1.61	1.51	6	6
3	C	368	PX4	C10-C9	3.33	1.60	1.50	7	7
3	C	324	PX4	C2-C1	3.33	1.61	1.51	13	3
3	C	348	PX4	C6-C7	3.33	1.61	1.50	4	4
3	C	325	PX4	C8-C7	3.32	1.61	1.50	2	7
3	A	631	PX4	O5-C8	3.32	1.37	1.45	3	1
3	B	319	PX4	C5-N1	3.32	1.40	1.50	3	3
3	C	329	PX4	C6-C7	3.32	1.61	1.50	6	7
3	C	335	PX4	C25-C24	3.32	1.64	1.52	5	3
3	C	352	PX4	O7-C7	3.32	1.38	1.46	7	6
3	B	332	PX4	O7-C23	3.32	1.24	1.34	14	4
3	B	315	PX4	C6-C7	3.32	1.61	1.50	11	3
3	B	341	PX4	O5-C9	3.32	1.23	1.33	6	3
3	C	350	PX4	C10-C9	3.32	1.60	1.50	12	4
3	A	642	PX4	C19-C18	3.32	1.68	1.51	1	1
3	C	349	PX4	C8-C7	3.32	1.61	1.50	11	6
3	B	323	PX4	C2-C1	3.31	1.61	1.51	4	3
3	B	381	PX4	C6-C7	3.31	1.61	1.50	4	4
3	B	314	PX4	C3-N1	3.31	1.59	1.50	9	1
3	C	325	PX4	C25-C24	3.31	1.64	1.52	10	1
3	A	611	PX4	C8-C7	3.31	1.61	1.50	11	6
3	B	302	PX4	C2-N1	3.31	1.61	1.51	8	2
3	C	309	PX4	O7-C7	3.31	1.38	1.46	1	1
3	C	327	PX4	C3-N1	3.31	1.59	1.50	15	3
3	C	359	PX4	C2-N1	3.31	1.61	1.51	1	2
3	A	632	PX4	C10-C9	3.31	1.60	1.50	13	7
3	B	349	PX4	C8-C7	3.31	1.61	1.50	14	4
3	C	327	PX4	C5-N1	3.31	1.40	1.50	2	2
3	A	607	PX4	C6-C7	3.31	1.61	1.50	10	10
3	B	337	PX4	C24-C23	3.31	1.60	1.50	2	4
3	B	394	PX4	C24-C23	3.31	1.60	1.50	12	3
3	B	304	PX4	C5-N1	3.31	1.59	1.50	14	2
3	B	334	PX4	C24-C23	3.30	1.60	1.50	7	3
3	B	303	PX4	C2-C1	3.30	1.61	1.51	14	5
3	C	321	PX4	C4-N1	3.30	1.40	1.50	13	3
3	C	361	PX4	C6-C7	3.30	1.61	1.50	10	5
3	B	368	PX4	C6-C7	3.30	1.61	1.50	15	5
3	C	346	PX4	O5-C8	3.30	1.37	1.45	12	5
3	B	351	PX4	C8-C7	3.30	1.61	1.50	3	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	391	PX4	O7-C23	3.30	1.24	1.34	11	2
3	B	399	PX4	C8-C7	3.30	1.61	1.50	1	8
3	A	629	PX4	O7-C23	3.30	1.24	1.34	11	1
3	C	346	PX4	C10-C9	3.30	1.60	1.50	2	2
3	A	611	PX4	C10-C9	3.29	1.60	1.50	13	1
3	B	382	PX4	O7-C23	3.29	1.25	1.34	11	3
3	C	338	PX4	C10-C9	3.29	1.60	1.50	7	3
3	B	394	PX4	C2-C1	3.29	1.61	1.51	15	6
3	A	620	PX4	C4-N1	3.29	1.40	1.50	11	2
3	A	622	PX4	C8-C7	3.29	1.61	1.50	11	2
3	C	343	PX4	C25-C24	3.29	1.64	1.52	1	2
3	B	354	PX4	C2-N1	3.29	1.41	1.51	9	1
3	C	342	PX4	C8-C7	3.29	1.61	1.50	15	4
3	B	361	PX4	C2-C1	3.29	1.61	1.51	15	6
3	B	382	PX4	C8-C7	3.29	1.61	1.50	8	8
3	C	331	PX4	C8-C7	3.29	1.61	1.50	11	4
3	A	608	PX4	O5-C8	3.29	1.52	1.45	12	3
3	A	620	PX4	C2-C1	3.28	1.61	1.51	13	4
3	C	329	PX4	O5-C8	3.29	1.37	1.45	2	2
3	C	331	PX4	C2-C1	3.28	1.61	1.51	7	5
3	B	323	PX4	O7-C7	3.28	1.38	1.46	12	3
3	A	642	PX4	C8-C7	3.28	1.61	1.50	13	9
3	B	307	PX4	O7-C7	3.28	1.38	1.46	6	3
3	A	604	PX4	C2-C1	3.28	1.61	1.51	7	8
3	B	378	PX4	C25-C24	3.28	1.64	1.52	5	2
3	A	625	PX4	O7-C23	3.28	1.25	1.34	11	2
3	B	386	PX4	O5-C8	3.28	1.52	1.45	2	2
3	C	368	PX4	C2-N1	3.28	1.61	1.51	8	4
3	C	305	PX4	C24-C23	3.28	1.60	1.50	7	3
3	C	324	PX4	C10-C9	3.27	1.60	1.50	6	3
3	A	617	PX4	C28-C27	3.27	1.68	1.51	14	1
3	B	315	PX4	C11-C10	3.27	1.64	1.52	12	6
3	B	332	PX4	C24-C23	3.27	1.60	1.50	10	3
3	B	304	PX4	C6-C7	3.27	1.61	1.50	7	7
3	B	319	PX4	C2-C1	3.27	1.61	1.51	14	6
3	A	624	PX4	C6-C7	3.27	1.61	1.50	12	5
3	A	647	PX4	C2-C1	3.27	1.61	1.51	11	5
3	B	302	PX4	O7-C23	3.27	1.25	1.34	9	3
3	B	321	PX4	C28-C27	3.27	1.68	1.51	13	1
3	C	362	PX4	C8-C7	3.27	1.61	1.50	6	7
3	A	633	PX4	C2-C1	3.27	1.61	1.51	9	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	362	PX4	C8-C7	3.27	1.61	1.50	9	5
3	B	365	PX4	C6-C7	3.27	1.61	1.50	2	4
3	A	625	PX4	C2-C1	3.26	1.61	1.51	9	6
3	B	342	PX4	C8-C7	3.26	1.61	1.50	10	7
3	C	341	PX4	O5-C8	3.26	1.52	1.45	14	2
3	A	623	PX4	C25-C24	3.26	1.64	1.52	11	4
3	A	640	PX4	O5-C9	3.26	1.23	1.33	10	1
3	A	647	PX4	C6-C7	3.26	1.61	1.50	4	8
3	C	351	PX4	C10-C9	3.26	1.60	1.50	13	5
3	C	360	PX4	C2-C1	3.26	1.61	1.51	13	4
3	B	322	PX4	C2-C1	3.25	1.61	1.51	7	7
3	C	317	PX4	C4-N1	3.25	1.59	1.50	5	2
3	C	341	PX4	O7-C7	3.25	1.38	1.46	14	5
3	A	609	PX4	O5-C9	3.25	1.23	1.33	1	1
3	A	642	PX4	C2-C1	3.25	1.61	1.51	12	2
3	B	350	PX4	C24-C23	3.25	1.60	1.50	12	2
3	C	347	PX4	C24-C23	3.25	1.41	1.50	1	4
3	C	366	PX4	C10-C9	3.24	1.60	1.50	13	5
3	C	370	PX4	C25-C24	3.24	1.64	1.52	9	3
3	A	608	PX4	C2-C1	3.24	1.61	1.51	8	4
3	B	324	PX4	O7-C7	3.24	1.39	1.46	1	2
3	A	601	PX4	C2-C1	3.24	1.61	1.51	5	6
3	B	379	PX4	C11-C10	3.24	1.64	1.52	3	1
3	C	353	PX4	C8-C7	3.24	1.60	1.50	4	4
3	A	601	PX4	C8-C7	3.24	1.60	1.50	12	7
3	A	639	PX4	C2-C1	3.24	1.61	1.51	12	6
3	A	644	PX4	C6-C7	3.24	1.60	1.50	10	3
3	B	326	PX4	C25-C24	3.24	1.64	1.52	14	1
3	B	330	PX4	O7-C23	3.24	1.25	1.34	3	4
3	B	302	PX4	O7-C7	3.23	1.39	1.46	1	3
3	B	359	PX4	C8-C7	3.23	1.60	1.50	11	6
3	C	353	PX4	C24-C23	3.23	1.60	1.50	11	3
3	C	319	PX4	C8-C7	3.23	1.60	1.50	7	5
3	C	359	PX4	C8-C7	3.23	1.60	1.50	11	5
3	B	371	PX4	O7-C7	3.23	1.39	1.46	6	1
3	B	389	PX4	C2-C1	3.23	1.61	1.51	10	5
3	B	345	PX4	C11-C10	3.23	1.64	1.52	14	1
3	B	348	PX4	C24-C23	3.23	1.60	1.50	13	6
3	A	616	PX4	C6-C7	3.23	1.60	1.50	9	5
3	A	641	PX4	O7-C7	3.22	1.39	1.46	5	1
3	B	362	PX4	O5-C8	3.22	1.38	1.45	7	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	368	PX4	C2-C1	3.23	1.61	1.51	8	4
3	C	359	PX4	O7-C23	3.23	1.25	1.34	2	2
3	B	322	PX4	C6-C7	3.22	1.60	1.50	3	6
3	C	312	PX4	O7-C7	3.22	1.39	1.46	1	2
3	C	359	PX4	C10-C9	3.22	1.60	1.50	5	4
3	C	328	PX4	O7-C7	3.22	1.39	1.46	14	5
3	A	645	PX4	O7-C23	3.22	1.25	1.34	11	2
3	B	336	PX4	C10-C9	3.22	1.60	1.50	11	3
3	B	380	PX4	C8-C7	3.22	1.60	1.50	6	3
3	C	347	PX4	C10-C9	3.22	1.60	1.50	14	3
3	B	345	PX4	O7-C7	3.22	1.39	1.46	1	4
3	C	305	PX4	C2-C1	3.22	1.61	1.51	1	6
3	C	351	PX4	C6-C7	3.22	1.60	1.50	12	4
3	A	634	PX4	C8-C7	3.21	1.60	1.50	4	5
3	C	322	PX4	O7-C7	3.21	1.54	1.46	12	2
3	A	623	PX4	C10-C9	3.21	1.60	1.50	5	4
3	B	388	PX4	C25-C24	3.21	1.64	1.52	13	3
3	C	324	PX4	C3-N1	3.21	1.59	1.50	2	2
3	A	627	PX4	C6-C7	3.21	1.60	1.50	11	8
3	B	313	PX4	O7-C23	3.21	1.43	1.34	10	1
3	B	327	PX4	C8-C7	3.21	1.60	1.50	5	12
3	C	355	PX4	C2-C1	3.21	1.61	1.51	1	6
3	B	338	PX4	O5-C8	3.21	1.38	1.45	4	2
3	B	400	PX4	O7-C7	3.21	1.39	1.46	5	3
3	C	317	PX4	C6-C7	3.21	1.60	1.50	7	5
3	C	322	PX4	C10-C9	3.21	1.60	1.50	6	4
3	B	331	PX4	C10-C9	3.20	1.60	1.50	2	2
3	A	619	PX4	C10-C9	3.20	1.60	1.50	11	1
3	B	330	PX4	C10-C9	3.20	1.60	1.50	6	5
3	C	303	PX4	C10-C9	3.20	1.60	1.50	9	3
3	A	632	PX4	O5-C9	3.20	1.24	1.33	15	1
3	B	311	PX4	C6-C7	3.20	1.60	1.50	12	6
3	C	319	PX4	C10-C9	3.20	1.60	1.50	14	1
3	B	324	PX4	C2-C1	3.20	1.61	1.51	8	7
3	C	356	PX4	C6-C7	3.20	1.60	1.50	11	5
3	B	308	PX4	C24-C23	3.20	1.60	1.50	10	3
3	C	362	PX4	C24-C23	3.20	1.60	1.50	12	4
3	A	636	PX4	C2-C1	3.19	1.61	1.51	14	3
3	A	644	PX4	C2-C1	3.19	1.61	1.51	14	5
3	B	309	PX4	C2-C1	3.19	1.61	1.51	11	4
3	C	361	PX4	C2-C1	3.19	1.61	1.51	7	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	332	PX4	O7-C7	3.19	1.39	1.46	13	3
3	B	340	PX4	C11-C10	3.19	1.63	1.52	3	5
3	B	393	PX4	C6-C7	3.19	1.60	1.50	9	5
3	A	605	PX4	C8-C7	3.19	1.60	1.50	1	8
3	A	607	PX4	C8-C7	3.19	1.60	1.50	14	5
3	B	321	PX4	O5-C8	3.19	1.38	1.45	12	3
3	C	358	PX4	C2-C1	3.19	1.61	1.51	3	1
3	B	353	PX4	C2-C1	3.19	1.61	1.51	2	3
3	B	380	PX4	C24-C23	3.19	1.60	1.50	2	2
3	C	316	PX4	C2-C1	3.19	1.61	1.51	9	6
3	B	379	PX4	C10-C9	3.18	1.59	1.50	10	2
3	A	608	PX4	O5-C9	3.18	1.24	1.33	15	1
3	C	312	PX4	C2-C1	3.18	1.61	1.51	10	5
3	A	606	PX4	C11-C10	3.18	1.63	1.52	8	3
3	B	313	PX4	O7-C7	3.18	1.39	1.46	4	2
3	B	343	PX4	C6-C7	3.18	1.60	1.50	13	4
3	B	343	PX4	O5-C9	3.18	1.42	1.33	10	2
3	B	350	PX4	P1-O3	3.18	1.46	1.59	11	2
3	C	311	PX4	C2-C1	3.18	1.60	1.51	12	5
3	A	637	PX4	C8-C7	3.18	1.60	1.50	14	6
3	A	603	PX4	O5-C8	3.18	1.52	1.45	11	1
3	A	645	PX4	C8-C7	3.18	1.60	1.50	13	6
3	B	396	PX4	C4-N1	3.17	1.59	1.50	6	1
3	C	337	PX4	C11-C10	3.17	1.63	1.52	4	2
3	A	625	PX4	C2-N1	3.17	1.61	1.51	11	1
3	B	385	PX4	O5-C8	3.17	1.52	1.45	14	1
3	B	320	PX4	O7-C7	3.17	1.39	1.46	7	2
3	B	330	PX4	C2-C1	3.17	1.60	1.51	2	3
3	B	333	PX4	C4-N1	3.17	1.59	1.50	14	2
3	B	302	PX4	C8-C7	3.17	1.60	1.50	8	6
3	B	375	PX4	O7-C23	3.17	1.25	1.34	6	5
3	A	630	PX4	O7-C23	3.17	1.25	1.34	2	3
3	B	310	PX4	O5-C8	3.17	1.52	1.45	4	1
3	B	389	PX4	C10-C9	3.17	1.59	1.50	15	7
3	C	363	PX4	P1-O4	3.16	1.47	1.59	7	1
3	A	615	PX4	O7-C23	3.16	1.25	1.34	5	3
3	B	347	PX4	C10-C9	3.16	1.59	1.50	2	4
3	B	362	PX4	O7-C23	3.16	1.25	1.34	3	2
3	C	332	PX4	C24-C23	3.16	1.59	1.50	2	4
3	C	346	PX4	C5-N1	3.16	1.59	1.50	2	2
3	C	366	PX4	O5-C8	3.16	1.38	1.45	5	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	635	PX4	C10-C9	3.16	1.59	1.50	11	3
3	C	306	PX4	C24-C23	3.16	1.59	1.50	13	3
3	C	351	PX4	O5-C8	3.16	1.52	1.45	2	4
3	A	632	PX4	O5-C8	3.15	1.38	1.45	13	4
3	B	302	PX4	O5-C8	3.16	1.38	1.45	2	3
3	B	379	PX4	C24-C23	3.15	1.59	1.50	11	5
3	C	307	PX4	C6-C7	3.15	1.60	1.50	3	4
3	C	355	PX4	O5-C8	3.16	1.38	1.45	10	2
3	B	341	PX4	C8-C7	3.15	1.60	1.50	12	7
3	B	350	PX4	C2-C1	3.15	1.60	1.51	4	4
3	C	309	PX4	C6-C7	3.15	1.60	1.50	8	8
3	C	363	PX4	C2-C1	3.15	1.60	1.51	4	6
3	B	325	PX4	C5-N1	3.15	1.40	1.50	8	2
3	B	377	PX4	C5-N1	3.15	1.40	1.50	2	1
3	A	627	PX4	C11-C10	3.15	1.63	1.52	10	3
3	A	628	PX4	C6-C7	3.15	1.60	1.50	3	3
3	A	642	PX4	O7-C7	3.15	1.39	1.46	8	5
3	B	344	PX4	C8-C7	3.15	1.60	1.50	15	6
3	B	348	PX4	O5-C8	3.15	1.38	1.45	2	2
3	B	378	PX4	C5-N1	3.15	1.59	1.50	5	2
3	C	366	PX4	O7-C7	3.15	1.39	1.46	8	3
3	C	370	PX4	O7-C7	3.15	1.39	1.46	13	4
3	B	303	PX4	O7-C23	3.14	1.25	1.34	3	2
3	B	396	PX4	C11-C10	3.14	1.63	1.52	10	2
3	C	312	PX4	P1-O3	3.14	1.47	1.59	12	1
3	B	327	PX4	C4-N1	3.14	1.40	1.50	11	4
3	C	337	PX4	C10-C9	3.14	1.59	1.50	3	2
3	C	336	PX4	O5-C9	3.14	1.24	1.33	6	2
3	A	638	PX4	C2-C1	3.14	1.60	1.51	5	3
3	B	312	PX4	O7-C23	3.14	1.25	1.34	2	1
3	B	317	PX4	C8-C7	3.14	1.60	1.50	4	7
3	C	306	PX4	C8-C7	3.14	1.60	1.50	4	8
3	C	316	PX4	C24-C23	3.14	1.59	1.50	1	5
3	A	602	PX4	C6-C7	3.14	1.60	1.50	13	6
3	A	619	PX4	O5-C8	3.13	1.52	1.45	4	2
3	B	329	PX4	C2-C1	3.14	1.60	1.51	8	7
3	B	356	PX4	C6-C7	3.14	1.60	1.50	11	3
3	C	306	PX4	O7-C7	3.14	1.39	1.46	4	3
3	B	379	PX4	C8-C7	3.13	1.60	1.50	7	7
3	C	304	PX4	C10-C9	3.13	1.59	1.50	9	3
3	C	309	PX4	O5-C8	3.13	1.52	1.45	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	343	PX4	C2-C1	3.13	1.60	1.51	5	2
3	C	355	PX4	C3-N1	3.13	1.59	1.50	4	1
3	A	606	PX4	C3-N1	3.13	1.59	1.50	15	2
3	A	613	PX4	O5-C9	3.13	1.24	1.33	6	2
3	A	635	PX4	C2-C1	3.13	1.60	1.51	10	4
3	C	364	PX4	C24-C23	3.13	1.59	1.50	1	2
3	B	341	PX4	O7-C7	3.13	1.39	1.46	2	3
3	B	358	PX4	C10-C9	3.13	1.59	1.50	2	4
3	A	647	PX4	C11-C10	3.12	1.63	1.52	10	2
3	B	323	PX4	C6-C7	3.12	1.60	1.50	6	5
3	A	609	PX4	C8-C7	3.12	1.60	1.50	4	8
3	A	615	PX4	C2-C1	3.12	1.60	1.51	15	2
3	B	374	PX4	C8-C7	3.12	1.60	1.50	12	4
3	C	303	PX4	O7-C23	3.12	1.25	1.34	12	2
3	C	305	PX4	O7-C7	3.12	1.39	1.46	7	2
3	B	340	PX4	C6-C7	3.12	1.60	1.50	14	4
3	A	614	PX4	C24-C23	3.11	1.59	1.50	8	6
3	B	321	PX4	O7-C7	3.11	1.39	1.46	15	3
3	B	397	PX4	C5-N1	3.11	1.41	1.50	7	4
3	C	326	PX4	C8-C7	3.11	1.60	1.50	3	3
3	B	322	PX4	C10-C9	3.11	1.59	1.50	11	3
3	B	319	PX4	O7-C7	3.11	1.39	1.46	13	2
3	C	326	PX4	C6-C7	3.11	1.60	1.50	14	7
3	C	367	PX4	C24-C23	3.11	1.59	1.50	11	6
3	B	390	PX4	O5-C8	3.11	1.38	1.45	10	2
3	A	634	PX4	C2-C1	3.10	1.60	1.51	7	8
3	B	305	PX4	C24-C23	3.11	1.59	1.50	15	4
3	B	371	PX4	O5-C8	3.11	1.52	1.45	10	4
3	C	339	PX4	C6-C7	3.11	1.60	1.50	7	6
3	B	321	PX4	C2-C1	3.11	1.60	1.51	3	6
3	B	398	PX4	C10-C9	3.11	1.59	1.50	15	2
3	A	645	PX4	C10-C9	3.10	1.59	1.50	3	6
3	B	311	PX4	C10-C9	3.10	1.59	1.50	6	2
3	B	315	PX4	C3-N1	3.10	1.41	1.50	11	1
3	C	307	PX4	C10-C9	3.10	1.59	1.50	13	5
3	C	302	PX4	O5-C8	3.10	1.52	1.45	10	1
3	C	357	PX4	C25-C24	3.10	1.63	1.52	8	2
3	A	614	PX4	C10-C9	3.10	1.59	1.50	6	1
3	A	608	PX4	O7-C7	3.10	1.39	1.46	8	2
3	A	629	PX4	O5-C9	3.10	1.24	1.33	2	5
3	B	321	PX4	C3-N1	3.10	1.41	1.50	11	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	356	PX4	C25-C24	3.10	1.63	1.52	1	2
3	C	325	PX4	C3-N1	3.10	1.41	1.50	14	2
3	A	640	PX4	C5-N1	3.10	1.41	1.50	12	2
3	B	314	PX4	O5-C8	3.10	1.38	1.45	4	2
3	C	355	PX4	P1-O1	3.10	1.41	1.55	15	3
3	B	372	PX4	C2-N1	3.09	1.60	1.51	14	3
3	C	336	PX4	C11-C10	3.10	1.63	1.52	9	3
3	A	603	PX4	C2-C1	3.09	1.60	1.51	3	5
3	B	345	PX4	C24-C23	3.09	1.59	1.50	13	1
3	B	365	PX4	C10-C9	3.09	1.59	1.50	11	2
3	B	317	PX4	C10-C9	3.09	1.59	1.50	11	5
3	C	301	PX4	C6-C7	3.09	1.60	1.50	12	7
3	C	368	PX4	C2-C1	3.09	1.60	1.51	6	8
3	A	630	PX4	C25-C24	3.09	1.63	1.52	9	2
3	B	322	PX4	O5-C8	3.09	1.38	1.45	9	2
3	B	316	PX4	C8-C7	3.09	1.60	1.50	4	4
3	B	324	PX4	C10-C9	3.09	1.59	1.50	6	3
3	B	341	PX4	O5-C8	3.09	1.52	1.45	9	2
3	B	336	PX4	O5-C8	3.09	1.52	1.45	10	1
3	B	341	PX4	O7-C23	3.09	1.25	1.34	8	2
3	B	394	PX4	O5-C8	3.09	1.52	1.45	1	2
3	B	315	PX4	C24-C23	3.09	1.59	1.50	15	3
3	B	362	PX4	C25-C24	3.09	1.63	1.52	2	3
3	B	400	PX4	O5-C8	3.09	1.38	1.45	6	2
3	B	369	PX4	C8-C7	3.09	1.60	1.50	12	8
3	C	348	PX4	O5-C8	3.08	1.38	1.45	2	3
3	A	624	PX4	C11-C10	3.08	1.63	1.52	15	3
3	A	633	PX4	C10-C9	3.08	1.59	1.50	11	3
3	C	321	PX4	C24-C23	3.08	1.59	1.50	5	4
3	C	365	PX4	C11-C10	3.08	1.63	1.52	2	1
3	A	636	PX4	O7-C23	3.08	1.43	1.34	5	2
3	C	322	PX4	C24-C23	3.08	1.59	1.50	7	4
3	C	336	PX4	C3-N1	3.08	1.41	1.50	6	4
3	C	358	PX4	O7-C7	3.08	1.39	1.46	8	2
3	B	318	PX4	O5-C9	3.08	1.42	1.33	8	5
3	B	334	PX4	C25-C24	3.08	1.63	1.52	6	3
3	B	391	PX4	O5-C9	3.08	1.42	1.33	11	4
3	B	392	PX4	O7-C23	3.08	1.25	1.34	15	2
3	C	327	PX4	C2-N1	3.08	1.60	1.51	5	1
3	B	331	PX4	O5-C9	3.07	1.42	1.33	13	3
3	B	344	PX4	C24-C23	3.07	1.59	1.50	7	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	370	PX4	C6-C7	3.07	1.60	1.50	3	4
3	B	308	PX4	C5-N1	3.07	1.41	1.50	1	1
3	B	329	PX4	C8-C7	3.07	1.60	1.50	13	7
3	B	361	PX4	C3-N1	3.07	1.41	1.50	7	1
3	A	621	PX4	C10-C9	3.07	1.59	1.50	15	5
3	B	360	PX4	C10-C9	3.07	1.59	1.50	12	4
3	C	345	PX4	C3-N1	3.07	1.58	1.50	5	1
3	A	607	PX4	O7-C23	3.07	1.25	1.34	11	2
3	A	611	PX4	C24-C23	3.06	1.59	1.50	13	2
3	B	310	PX4	P1-O4	3.07	1.47	1.59	2	1
3	A	637	PX4	C24-C23	3.06	1.59	1.50	14	2
3	B	312	PX4	C24-C23	3.06	1.59	1.50	14	3
3	B	337	PX4	C2-C1	3.07	1.60	1.51	7	5
3	B	366	PX4	C10-C9	3.06	1.59	1.50	1	4
3	C	321	PX4	P1-O4	3.06	1.47	1.59	13	1
3	C	330	PX4	C6-C7	3.06	1.60	1.50	8	6
3	B	306	PX4	C2-C1	3.06	1.60	1.51	11	3
3	B	337	PX4	C25-C24	3.06	1.63	1.52	12	2
3	B	364	PX4	C8-C7	3.06	1.60	1.50	1	4
3	B	396	PX4	C24-C23	3.06	1.59	1.50	11	3
3	A	610	PX4	C4-N1	3.06	1.41	1.50	13	4
3	B	398	PX4	C8-C7	3.06	1.60	1.50	7	5
3	A	631	PX4	C2-C1	3.06	1.60	1.51	14	3
3	C	319	PX4	C13-C12	3.06	1.67	1.51	1	1
3	B	325	PX4	O5-C8	3.06	1.52	1.45	14	3
3	B	334	PX4	O7-C7	3.06	1.39	1.46	13	3
3	B	372	PX4	C3-N1	3.06	1.58	1.50	5	2
3	A	608	PX4	C4-N1	3.06	1.41	1.50	14	3
3	A	628	PX4	C10-C9	3.06	1.59	1.50	11	2
3	A	629	PX4	C3-N1	3.06	1.58	1.50	6	1
3	A	634	PX4	O7-C7	3.06	1.39	1.46	2	1
3	A	645	PX4	P1-O2	3.06	1.40	1.50	1	2
3	B	316	PX4	C2-C1	3.06	1.60	1.51	9	5
3	B	318	PX4	O7-C7	3.06	1.39	1.46	14	4
3	B	367	PX4	O7-C7	3.06	1.39	1.46	8	3
3	C	358	PX4	C24-C23	3.06	1.59	1.50	2	4
3	A	621	PX4	O7-C23	3.05	1.25	1.34	5	1
3	A	631	PX4	C6-C7	3.05	1.60	1.50	9	7
3	B	363	PX4	C6-C7	3.05	1.60	1.50	2	4
3	C	311	PX4	C5-N1	3.05	1.58	1.50	4	4
3	B	303	PX4	C24-C23	3.05	1.59	1.50	3	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	340	PX4	C8-C7	3.05	1.60	1.50	15	8
3	B	348	PX4	C8-C7	3.05	1.60	1.50	8	8
3	B	317	PX4	O7-C23	3.05	1.25	1.34	15	1
3	B	336	PX4	O5-C9	3.05	1.24	1.33	10	3
3	B	355	PX4	O3-C1	3.05	1.32	1.44	3	1
3	B	356	PX4	O7-C7	3.05	1.39	1.46	15	2
3	C	317	PX4	O7-C7	3.05	1.39	1.46	13	5
3	B	400	PX4	C10-C9	3.05	1.59	1.50	6	4
3	C	333	PX4	O7-C7	3.05	1.39	1.46	6	1
3	B	320	PX4	C10-C9	3.04	1.59	1.50	8	5
3	B	373	PX4	C24-C23	3.04	1.59	1.50	4	4
3	C	333	PX4	C6-C7	3.04	1.60	1.50	8	6
3	B	338	PX4	C2-N1	3.04	1.60	1.51	2	3
3	C	314	PX4	C10-C9	3.04	1.59	1.50	6	4
3	C	369	PX4	C6-C7	3.04	1.60	1.50	11	7
3	A	613	PX4	C6-C7	3.04	1.60	1.50	3	8
3	A	625	PX4	O4-C6	3.04	1.56	1.44	10	1
3	B	303	PX4	C10-C9	3.04	1.59	1.50	1	3
3	C	337	PX4	C2-N1	3.04	1.60	1.51	2	1
3	C	320	PX4	O7-C23	3.03	1.25	1.34	9	4
3	C	352	PX4	C6-C7	3.03	1.60	1.50	12	3
3	A	633	PX4	C4-N1	3.03	1.58	1.50	1	1
3	B	381	PX4	C3-N1	3.03	1.58	1.50	1	2
3	A	630	PX4	O5-C8	3.03	1.38	1.45	9	5
3	B	350	PX4	C11-C10	3.03	1.63	1.52	1	4
3	B	377	PX4	O5-C9	3.03	1.24	1.33	11	5
3	C	329	PX4	C2-C1	3.03	1.60	1.51	4	7
3	C	301	PX4	C10-C9	3.03	1.59	1.50	5	2
3	C	352	PX4	C5-N1	3.03	1.58	1.50	4	1
3	C	355	PX4	C24-C23	3.03	1.59	1.50	7	4
3	C	358	PX4	C5-N1	3.03	1.58	1.50	2	2
3	B	359	PX4	C2-N1	3.03	1.60	1.51	13	1
3	B	382	PX4	C25-C24	3.03	1.63	1.52	9	2
3	B	387	PX4	C24-C23	3.03	1.59	1.50	2	3
3	C	329	PX4	O7-C7	3.03	1.39	1.46	4	1
3	A	619	PX4	C5-N1	3.03	1.58	1.50	3	3
3	B	320	PX4	O7-C23	3.03	1.25	1.34	9	4
3	A	641	PX4	C3-N1	3.02	1.41	1.50	11	4
3	A	618	PX4	C6-C7	3.02	1.60	1.50	14	4
3	B	339	PX4	C3-N1	3.02	1.58	1.50	11	2
3	B	348	PX4	C2-C1	3.02	1.60	1.51	7	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	341	PX4	C2-C1	3.02	1.60	1.51	7	7
3	C	367	PX4	C6-C7	3.02	1.60	1.50	9	5
3	C	370	PX4	C2-C1	3.02	1.60	1.51	12	3
3	A	636	PX4	C10-C9	3.02	1.59	1.50	8	2
3	B	386	PX4	C6-C7	3.02	1.60	1.50	7	5
3	C	331	PX4	C2-N1	3.02	1.60	1.51	6	2
3	B	318	PX4	C10-C9	3.02	1.59	1.50	1	1
3	A	622	PX4	P1-O1	3.02	1.41	1.55	14	3
3	C	312	PX4	O7-C23	3.02	1.25	1.34	9	2
3	C	363	PX4	C8-C7	3.02	1.60	1.50	5	8
3	B	399	PX4	O5-C9	3.02	1.24	1.33	2	2
3	B	313	PX4	C32-C31	3.02	1.66	1.51	2	1
3	A	640	PX4	C10-C9	3.01	1.59	1.50	9	5
3	A	647	PX4	C2-N1	3.01	1.60	1.51	15	1
3	B	397	PX4	C8-C7	3.01	1.60	1.50	13	4
3	B	399	PX4	C11-C10	3.01	1.63	1.52	6	3
3	C	365	PX4	O5-C8	3.02	1.38	1.45	5	2
3	B	375	PX4	C24-C23	3.01	1.59	1.50	14	2
3	C	341	PX4	C25-C24	3.01	1.63	1.52	11	1
3	A	606	PX4	O7-C7	3.01	1.39	1.46	10	4
3	A	641	PX4	O5-C9	3.01	1.42	1.33	14	2
3	B	305	PX4	C8-C7	3.01	1.60	1.50	6	6
3	C	317	PX4	O5-C9	3.01	1.24	1.33	6	3
3	B	365	PX4	O7-C7	3.01	1.39	1.46	11	5
3	C	365	PX4	C6-C7	3.01	1.60	1.50	13	5
3	A	609	PX4	O7-C23	3.01	1.25	1.34	11	3
3	A	627	PX4	C2-C1	3.01	1.60	1.51	11	4
3	C	302	PX4	C11-C10	3.01	1.63	1.52	8	4
3	C	336	PX4	C25-C24	3.01	1.63	1.52	10	2
3	A	607	PX4	C11-C10	3.01	1.63	1.52	1	1
3	A	610	PX4	C2-C1	3.00	1.60	1.51	8	6
3	B	335	PX4	C25-C24	3.00	1.63	1.52	4	1
3	B	393	PX4	O7-C23	3.00	1.25	1.34	1	5
3	C	357	PX4	C2-C1	3.00	1.60	1.51	8	6
3	C	368	PX4	C8-C7	3.00	1.60	1.50	8	8
3	A	615	PX4	C25-C24	3.00	1.63	1.52	8	1
3	A	623	PX4	C2-C1	3.00	1.60	1.51	2	8
3	A	601	PX4	C24-C23	3.00	1.59	1.50	12	3
3	A	605	PX4	C2-C1	3.00	1.60	1.51	10	6
3	C	307	PX4	O7-C7	3.00	1.39	1.46	11	5
3	C	332	PX4	C2-C1	3.00	1.60	1.51	2	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	383	PX4	C4-N1	3.00	1.58	1.50	5	1
3	B	390	PX4	O7-C7	3.00	1.39	1.46	1	5
3	C	342	PX4	C2-C1	3.00	1.60	1.51	3	3
3	B	313	PX4	C24-C23	3.00	1.59	1.50	8	4
3	C	348	PX4	O7-C23	3.00	1.42	1.34	13	5
3	A	607	PX4	C3-N1	3.00	1.58	1.50	12	3
3	B	374	PX4	C2-N1	3.00	1.60	1.51	5	1
3	B	397	PX4	O5-C9	2.99	1.24	1.33	10	2
3	C	315	PX4	C8-C7	2.99	1.60	1.50	4	8
3	A	633	PX4	P1-O1	2.99	1.41	1.55	1	2
3	B	389	PX4	C6-C7	2.99	1.60	1.50	10	4
3	B	398	PX4	C2-C1	2.99	1.60	1.51	11	5
3	A	626	PX4	O7-C7	2.99	1.39	1.46	9	3
3	B	346	PX4	C4-N1	2.99	1.58	1.50	6	2
3	B	373	PX4	O3-C1	2.99	1.32	1.44	8	2
3	A	618	PX4	O7-C7	2.99	1.39	1.46	6	4
3	B	388	PX4	O5-C9	2.98	1.42	1.33	11	1
3	B	390	PX4	C2-C1	2.98	1.60	1.51	11	5
3	C	303	PX4	O5-C8	2.98	1.38	1.45	5	1
3	C	338	PX4	O5-C8	2.98	1.38	1.45	15	2
3	C	355	PX4	P1-O3	2.98	1.47	1.59	6	1
3	C	323	PX4	C2-N1	2.98	1.60	1.51	13	3
3	C	368	PX4	C25-C24	2.98	1.63	1.52	7	3
3	B	308	PX4	C10-C9	2.98	1.59	1.50	5	2
3	B	309	PX4	O7-C7	2.98	1.39	1.46	13	5
3	B	362	PX4	C2-C1	2.98	1.60	1.51	7	4
3	B	369	PX4	C24-C23	2.98	1.59	1.50	4	3
3	B	399	PX4	C2-C1	2.98	1.60	1.51	9	3
3	A	622	PX4	C24-C23	2.98	1.59	1.50	11	2
3	B	317	PX4	C2-C1	2.98	1.60	1.51	2	5
3	B	317	PX4	O5-C8	2.98	1.38	1.45	11	4
3	B	335	PX4	O5-C8	2.97	1.51	1.45	9	2
3	C	318	PX4	P1-O4	2.97	1.47	1.59	5	1
3	C	330	PX4	C10-C9	2.97	1.59	1.50	11	4
3	B	304	PX4	O5-C8	2.97	1.51	1.45	7	2
3	B	343	PX4	C10-C9	2.97	1.59	1.50	10	1
3	A	608	PX4	C25-C24	2.97	1.63	1.52	5	1
3	B	344	PX4	O7-C7	2.97	1.39	1.46	3	2
3	B	390	PX4	C3-N1	2.97	1.41	1.50	14	3
3	C	332	PX4	C4-N1	2.97	1.41	1.50	1	1
3	C	335	PX4	C11-C10	2.97	1.63	1.52	3	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	370	PX4	O5-C8	2.97	1.38	1.45	7	4
3	B	363	PX4	C17-C16	2.97	1.66	1.51	15	1
3	B	386	PX4	C11-C10	2.97	1.63	1.52	10	2
3	C	304	PX4	C8-C7	2.97	1.60	1.50	5	7
3	C	314	PX4	O7-C7	2.97	1.39	1.46	11	4
3	B	355	PX4	C24-C23	2.97	1.59	1.50	9	5
3	C	322	PX4	C6-C7	2.97	1.60	1.50	5	7
3	C	358	PX4	C6-C7	2.97	1.60	1.50	2	5
3	A	630	PX4	C10-C9	2.96	1.59	1.50	3	5
3	B	360	PX4	C8-C7	2.97	1.60	1.50	2	6
3	C	313	PX4	O5-C8	2.97	1.51	1.45	4	2
3	C	359	PX4	C25-C24	2.97	1.63	1.52	1	2
3	B	361	PX4	C6-C7	2.96	1.60	1.50	10	7
3	B	376	PX4	C2-C1	2.96	1.60	1.51	4	5
3	A	620	PX4	C24-C23	2.96	1.59	1.50	13	1
3	B	344	PX4	C6-C7	2.96	1.60	1.50	14	5
3	C	302	PX4	C10-C9	2.96	1.59	1.50	1	3
3	B	357	PX4	C10-C9	2.96	1.59	1.50	15	4
3	A	604	PX4	C10-C9	2.96	1.59	1.50	14	2
3	B	343	PX4	O7-C7	2.96	1.39	1.46	11	2
3	C	334	PX4	C4-N1	2.96	1.58	1.50	3	3
3	C	348	PX4	C8-C7	2.96	1.60	1.50	13	8
3	A	606	PX4	C10-C9	2.96	1.59	1.50	14	4
3	B	369	PX4	C6-C7	2.96	1.60	1.50	15	4
3	C	308	PX4	C24-C23	2.96	1.59	1.50	5	3
3	A	606	PX4	C2-C1	2.96	1.60	1.51	2	5
3	B	311	PX4	O5-C8	2.96	1.51	1.45	3	3
3	B	356	PX4	C11-C10	2.96	1.63	1.52	7	3
3	C	348	PX4	C25-C24	2.96	1.63	1.52	15	2
3	A	612	PX4	C2-C1	2.96	1.60	1.51	6	4
3	A	614	PX4	C11-C10	2.95	1.63	1.52	14	2
3	A	622	PX4	O5-C8	2.95	1.51	1.45	9	1
3	B	304	PX4	C11-C10	2.95	1.63	1.52	7	4
3	B	312	PX4	P1-O4	2.95	1.47	1.59	2	1
3	C	316	PX4	O5-C8	2.95	1.38	1.45	1	2
3	B	390	PX4	C10-C9	2.95	1.59	1.50	11	1
3	A	623	PX4	C2-N1	2.95	1.60	1.51	5	3
3	B	351	PX4	O5-C8	2.95	1.38	1.45	3	2
3	B	399	PX4	C5-N1	2.95	1.58	1.50	12	2
3	C	316	PX4	C6-C7	2.95	1.60	1.50	1	6
3	A	612	PX4	C11-C10	2.95	1.63	1.52	11	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	342	PX4	O7-C7	2.95	1.39	1.46	3	2
3	B	360	PX4	O7-C23	2.95	1.25	1.34	6	2
3	C	332	PX4	C33-C32	2.95	1.66	1.51	13	1
3	C	333	PX4	O5-C9	2.95	1.24	1.33	6	2
3	B	341	PX4	C10-C9	2.95	1.59	1.50	1	5
3	B	354	PX4	O5-C8	2.95	1.51	1.45	9	3
3	B	374	PX4	C11-C10	2.95	1.63	1.52	15	4
3	B	380	PX4	O7-C23	2.95	1.25	1.34	13	3
3	C	307	PX4	C3-N1	2.95	1.41	1.50	11	3
3	C	339	PX4	C28-C27	2.95	1.66	1.51	10	1
3	C	334	PX4	C11-C10	2.95	1.63	1.52	5	2
3	C	301	PX4	C25-C24	2.95	1.63	1.52	12	4
3	B	310	PX4	C24-C23	2.94	1.59	1.50	15	5
3	C	360	PX4	C5-N1	2.94	1.58	1.50	8	1
3	C	340	PX4	C24-C23	2.94	1.59	1.50	10	1
3	C	344	PX4	C2-C1	2.94	1.60	1.51	9	6
3	B	307	PX4	C10-C9	2.94	1.59	1.50	2	5
3	C	314	PX4	O5-C8	2.94	1.51	1.45	5	2
3	C	365	PX4	C8-C7	2.94	1.60	1.50	4	6
3	A	618	PX4	O7-C23	2.93	1.26	1.34	8	1
3	B	314	PX4	C5-N1	2.93	1.41	1.50	14	1
3	C	306	PX4	C5-N1	2.93	1.58	1.50	4	1
3	B	368	PX4	O7-C7	2.93	1.39	1.46	14	5
3	B	384	PX4	P1-O3	2.93	1.47	1.59	12	1
3	C	321	PX4	O7-C23	2.93	1.26	1.34	5	2
3	B	307	PX4	C11-C10	2.93	1.62	1.52	5	2
3	B	378	PX4	O7-C7	2.93	1.39	1.46	6	4
3	C	342	PX4	O5-C9	2.93	1.41	1.33	11	1
3	C	362	PX4	O5-C9	2.93	1.24	1.33	8	2
3	A	603	PX4	C6-C7	2.93	1.60	1.50	5	6
3	A	622	PX4	O7-C23	2.92	1.26	1.34	6	1
3	B	371	PX4	C25-C24	2.92	1.62	1.52	12	3
3	C	323	PX4	P1-O3	2.93	1.70	1.59	15	3
3	B	304	PX4	C10-C9	2.92	1.59	1.50	1	6
3	B	315	PX4	P1-O2	2.92	1.40	1.50	12	1
3	C	345	PX4	C24-C23	2.92	1.59	1.50	8	4
3	B	389	PX4	O5-C9	2.92	1.41	1.33	12	3
3	B	360	PX4	C2-C1	2.92	1.60	1.51	10	2
3	B	362	PX4	C6-C7	2.92	1.59	1.50	10	5
3	B	395	PX4	O7-C7	2.92	1.39	1.46	7	2
3	B	398	PX4	O5-C8	2.92	1.51	1.45	8	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	365	PX4	C2-N1	2.92	1.42	1.51	8	1
3	A	648	PX4	C25-C24	2.92	1.62	1.52	8	3
3	B	331	PX4	O7-C7	2.92	1.39	1.46	3	4
3	B	335	PX4	C24-C23	2.92	1.59	1.50	1	2
3	A	628	PX4	C11-C10	2.92	1.62	1.52	14	3
3	C	338	PX4	C24-C23	2.92	1.59	1.50	14	2
3	B	326	PX4	C6-C7	2.92	1.59	1.50	14	4
3	A	620	PX4	O7-C7	2.91	1.39	1.46	11	2
3	A	632	PX4	C2-C1	2.91	1.60	1.51	9	6
3	C	348	PX4	C18-C17	2.92	1.66	1.51	13	1
3	C	365	PX4	O7-C7	2.92	1.39	1.46	6	3
3	B	320	PX4	O5-C9	2.91	1.41	1.33	9	5
3	B	310	PX4	C2-C1	2.91	1.60	1.51	2	5
3	B	330	PX4	C8-C7	2.91	1.59	1.50	1	5
3	B	303	PX4	C25-C24	2.91	1.62	1.52	7	2
3	C	322	PX4	C2-N1	2.91	1.60	1.51	6	3
3	C	333	PX4	C2-C1	2.91	1.60	1.51	4	6
3	A	602	PX4	C25-C24	2.91	1.62	1.52	7	2
3	A	610	PX4	P1-O3	2.91	1.48	1.59	12	1
3	A	643	PX4	C10-C9	2.91	1.59	1.50	5	6
3	B	305	PX4	C2-N1	2.91	1.42	1.51	12	4
3	B	310	PX4	P1-O1	2.91	1.41	1.55	3	6
3	B	313	PX4	C2-N1	2.91	1.60	1.51	9	2
3	B	338	PX4	O7-C7	2.91	1.39	1.46	7	3
3	B	382	PX4	C24-C23	2.91	1.59	1.50	6	2
3	C	341	PX4	O5-C9	2.91	1.41	1.33	9	3
3	A	615	PX4	C4-N1	2.90	1.58	1.50	5	3
3	B	365	PX4	O7-C23	2.90	1.26	1.34	7	3
3	C	315	PX4	C10-C9	2.90	1.59	1.50	4	3
3	C	347	PX4	O7-C23	2.90	1.26	1.34	5	1
3	C	357	PX4	O5-C8	2.90	1.51	1.45	9	1
3	A	637	PX4	O5-C9	2.90	1.41	1.33	12	1
3	B	355	PX4	C10-C9	2.90	1.59	1.50	7	3
3	B	397	PX4	C4-N1	2.90	1.41	1.50	14	2
3	C	305	PX4	P1-O1	2.90	1.41	1.55	8	4
3	A	602	PX4	C10-C9	2.90	1.59	1.50	14	3
3	A	635	PX4	C5-N1	2.90	1.58	1.50	1	2
3	B	341	PX4	C24-C23	2.90	1.59	1.50	8	3
3	C	345	PX4	C10-C9	2.90	1.59	1.50	14	5
3	A	607	PX4	O7-C7	2.89	1.39	1.46	7	6
3	C	306	PX4	C6-C7	2.89	1.59	1.50	14	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	617	PX4	C3-N1	2.89	1.41	1.50	14	2
3	A	632	PX4	C24-C23	2.89	1.59	1.50	2	5
3	B	339	PX4	O5-C9	2.89	1.41	1.33	12	1
3	A	633	PX4	P1-O4	2.89	1.48	1.59	12	1
3	A	641	PX4	O5-C8	2.89	1.38	1.45	5	2
3	B	364	PX4	C6-C7	2.89	1.59	1.50	15	2
3	B	389	PX4	C8-C7	2.89	1.59	1.50	1	1
3	B	378	PX4	O7-C23	2.89	1.26	1.34	14	2
3	C	368	PX4	O5-C8	2.89	1.38	1.45	1	2
3	A	635	PX4	P1-O1	2.89	1.42	1.55	3	5
3	C	313	PX4	C25-C24	2.89	1.62	1.52	8	1
3	B	347	PX4	C11-C10	2.89	1.62	1.52	9	3
3	B	352	PX4	O3-C1	2.89	1.33	1.44	6	1
3	B	396	PX4	O5-C9	2.89	1.25	1.33	4	5
3	C	358	PX4	C10-C9	2.89	1.59	1.50	9	4
3	B	365	PX4	C25-C24	2.89	1.62	1.52	7	1
3	B	400	PX4	O7-C23	2.89	1.42	1.34	5	2
3	C	316	PX4	O5-C9	2.89	1.41	1.33	9	4
3	A	644	PX4	C11-C10	2.89	1.62	1.52	1	1
3	B	309	PX4	O7-C23	2.89	1.26	1.34	11	1
3	B	371	PX4	C10-C9	2.89	1.59	1.50	13	4
3	C	353	PX4	C3-N1	2.89	1.58	1.50	14	1
3	C	324	PX4	C8-C7	2.89	1.59	1.50	2	4
3	C	345	PX4	C5-N1	2.89	1.58	1.50	7	1
3	A	621	PX4	C24-C23	2.88	1.59	1.50	7	3
3	B	324	PX4	C3-N1	2.88	1.41	1.50	11	3
3	A	621	PX4	P1-O1	2.88	1.42	1.55	12	5
3	A	638	PX4	O5-C8	2.88	1.38	1.45	14	2
3	B	385	PX4	C3-N1	2.88	1.41	1.50	1	1
3	B	344	PX4	C10-C9	2.88	1.59	1.50	10	4
3	A	616	PX4	C3-N1	2.88	1.41	1.50	6	1
3	B	364	PX4	C25-C24	2.88	1.62	1.52	2	1
3	C	353	PX4	C10-C9	2.88	1.59	1.50	15	2
3	C	366	PX4	O7-C23	2.88	1.26	1.34	10	2
3	A	648	PX4	C10-C9	2.88	1.59	1.50	5	5
3	C	354	PX4	P1-O1	2.88	1.42	1.55	4	3
3	C	358	PX4	C8-C7	2.88	1.59	1.50	12	6
3	A	601	PX4	C2-N1	2.88	1.42	1.51	15	2
3	A	605	PX4	C10-C9	2.88	1.59	1.50	14	1
3	B	356	PX4	O5-C9	2.88	1.41	1.33	11	3
3	A	609	PX4	C10-C9	2.87	1.59	1.50	12	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	633	PX4	C6-C7	2.87	1.59	1.50	11	5
3	B	303	PX4	C8-C7	2.87	1.59	1.50	7	7
3	B	307	PX4	C24-C23	2.87	1.59	1.50	11	3
3	B	325	PX4	C2-C1	2.87	1.60	1.51	11	6
3	B	335	PX4	C11-C10	2.87	1.62	1.52	9	3
3	C	315	PX4	O5-C8	2.87	1.38	1.45	6	2
3	A	617	PX4	O7-C7	2.87	1.39	1.46	2	2
3	A	617	PX4	C2-C1	2.87	1.60	1.51	8	4
3	B	372	PX4	C11-C10	2.87	1.62	1.52	9	2
3	B	385	PX4	C10-C9	2.87	1.59	1.50	7	3
3	B	324	PX4	C4-N1	2.87	1.58	1.50	11	3
3	C	310	PX4	C24-C23	2.87	1.59	1.50	2	3
3	B	385	PX4	O7-C7	2.87	1.39	1.46	7	4
3	C	333	PX4	C10-C9	2.87	1.59	1.50	6	3
3	A	611	PX4	C2-C1	2.87	1.60	1.51	7	5
3	B	386	PX4	C4-N1	2.87	1.58	1.50	3	1
3	C	340	PX4	O5-C8	2.87	1.38	1.45	15	2
3	A	625	PX4	C19-C18	2.86	1.66	1.51	10	2
3	B	352	PX4	C10-C9	2.86	1.59	1.50	10	4
3	B	395	PX4	C11-C10	2.86	1.62	1.52	15	2
3	C	304	PX4	O7-C7	2.86	1.39	1.46	4	4
3	A	644	PX4	O7-C23	2.86	1.26	1.34	1	3
3	A	642	PX4	C25-C24	2.86	1.62	1.52	1	1
3	B	321	PX4	C4-N1	2.86	1.41	1.50	1	3
3	B	332	PX4	O5-C9	2.86	1.25	1.33	13	3
3	B	400	PX4	C24-C23	2.86	1.59	1.50	12	2
3	C	333	PX4	C24-C23	2.86	1.59	1.50	6	1
3	B	318	PX4	O5-C8	2.86	1.38	1.45	11	1
3	A	622	PX4	C10-C9	2.86	1.42	1.50	12	2
3	B	359	PX4	O5-C9	2.85	1.25	1.33	7	2
3	B	380	PX4	C10-C9	2.85	1.59	1.50	6	3
3	C	368	PX4	C24-C23	2.85	1.59	1.50	14	4
3	B	318	PX4	C6-C7	2.85	1.59	1.50	15	8
3	A	629	PX4	O7-C7	2.85	1.39	1.46	14	1
3	A	640	PX4	C6-C7	2.85	1.59	1.50	9	4
3	B	367	PX4	C11-C10	2.85	1.62	1.52	15	4
3	A	641	PX4	C8-C7	2.85	1.59	1.50	3	6
3	B	385	PX4	C2-C1	2.85	1.59	1.51	3	4
3	B	381	PX4	C11-C10	2.85	1.62	1.52	13	2
3	B	359	PX4	C3-N1	2.85	1.41	1.50	12	2
3	A	610	PX4	C6-C7	2.84	1.59	1.50	7	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	313	PX4	C24-C23	2.84	1.59	1.50	8	3
3	B	335	PX4	C6-C7	2.84	1.59	1.50	8	6
3	A	616	PX4	C5-N1	2.84	1.41	1.50	10	3
3	B	369	PX4	C25-C24	2.84	1.62	1.52	3	1
3	A	615	PX4	C2-N1	2.84	1.60	1.51	11	1
3	B	339	PX4	C24-C23	2.84	1.58	1.50	12	4
3	B	316	PX4	C24-C23	2.84	1.58	1.50	12	2
3	C	349	PX4	C11-C10	2.84	1.62	1.52	8	4
3	B	339	PX4	C10-C9	2.84	1.58	1.50	12	2
3	B	301	PX4	C2-C1	2.84	1.59	1.51	9	5
3	B	389	PX4	C11-C10	2.84	1.62	1.52	3	2
3	C	330	PX4	O7-C23	2.84	1.26	1.34	10	2
3	C	336	PX4	C24-C23	2.84	1.58	1.50	8	3
3	B	329	PX4	C24-C23	2.84	1.58	1.50	11	1
3	B	361	PX4	O5-C8	2.83	1.38	1.45	6	1
3	C	331	PX4	C10-C9	2.83	1.58	1.50	15	2
3	C	303	PX4	C25-C24	2.83	1.62	1.52	4	3
3	B	364	PX4	C4-N1	2.83	1.58	1.50	15	3
3	C	344	PX4	O7-C7	2.83	1.39	1.46	15	4
3	B	380	PX4	O5-C9	2.83	1.41	1.33	1	5
3	C	351	PX4	C2-C1	2.83	1.59	1.51	2	5
3	A	602	PX4	C8-C7	2.83	1.59	1.50	4	2
3	B	378	PX4	C10-C9	2.83	1.58	1.50	6	4
3	C	351	PX4	C24-C23	2.83	1.58	1.50	6	1
3	B	304	PX4	O7-C23	2.83	1.42	1.34	8	2
3	B	359	PX4	P1-O1	2.83	1.42	1.55	9	2
3	C	339	PX4	O5-C9	2.83	1.25	1.33	15	1
3	A	629	PX4	C4-N1	2.82	1.41	1.50	10	3
3	A	645	PX4	C4-N1	2.82	1.58	1.50	9	2
3	B	328	PX4	O7-C23	2.82	1.26	1.34	8	2
3	B	359	PX4	O7-C23	2.82	1.26	1.34	4	3
3	C	355	PX4	C10-C9	2.82	1.58	1.50	7	2
3	C	349	PX4	O7-C7	2.82	1.40	1.46	5	4
3	C	354	PX4	O7-C23	2.82	1.26	1.34	5	5
3	B	301	PX4	O7-C23	2.82	1.42	1.34	1	4
3	B	354	PX4	C24-C23	2.82	1.58	1.50	12	5
3	A	610	PX4	C27-C26	2.82	1.65	1.51	14	1
3	A	631	PX4	C5-N1	2.82	1.58	1.50	2	1
3	A	640	PX4	C11-C10	2.82	1.62	1.52	6	1
3	B	367	PX4	P1-O2	2.82	1.41	1.50	14	1
3	C	328	PX4	C11-C10	2.82	1.62	1.52	4	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	337	PX4	C3-N1	2.82	1.41	1.50	14	4
3	A	605	PX4	C25-C24	2.82	1.62	1.52	11	3
3	A	622	PX4	C3-N1	2.82	1.58	1.50	9	1
3	A	629	PX4	C31-C30	2.82	1.65	1.51	4	1
3	B	384	PX4	O5-C8	2.82	1.38	1.45	6	1
3	B	384	PX4	C25-C24	2.82	1.62	1.52	12	3
3	C	331	PX4	C11-C10	2.82	1.62	1.52	10	6
3	C	363	PX4	C6-C7	2.82	1.59	1.50	7	3
3	A	606	PX4	C5-N1	2.82	1.58	1.50	4	1
3	B	321	PX4	P1-O4	2.82	1.48	1.59	5	2
3	B	347	PX4	C25-C24	2.82	1.62	1.52	8	3
3	B	351	PX4	C2-C1	2.82	1.59	1.51	14	6
3	C	310	PX4	C25-C24	2.82	1.62	1.52	15	1
3	C	361	PX4	O5-C9	2.82	1.41	1.33	6	5
3	A	612	PX4	P1-O1	2.81	1.42	1.55	4	3
3	B	325	PX4	C24-C23	2.81	1.58	1.50	7	2
3	B	328	PX4	C24-C23	2.81	1.58	1.50	10	3
3	B	392	PX4	C3-N1	2.81	1.58	1.50	4	3
3	A	638	PX4	C10-C9	2.81	1.58	1.50	3	1
3	B	313	PX4	C3-N1	2.81	1.58	1.50	11	1
3	C	319	PX4	C3-N1	2.81	1.58	1.50	6	1
3	C	322	PX4	O5-C9	2.81	1.25	1.33	11	1
3	C	369	PX4	O5-C8	2.81	1.51	1.45	12	3
3	B	372	PX4	C6-C7	2.81	1.59	1.50	4	3
3	A	621	PX4	C3-N1	2.81	1.58	1.50	3	4
3	B	333	PX4	C24-C23	2.81	1.58	1.50	1	2
3	C	361	PX4	C4-N1	2.81	1.41	1.50	12	1
3	B	306	PX4	O7-C7	2.81	1.40	1.46	11	5
3	C	351	PX4	C5-N1	2.81	1.58	1.50	3	2
3	B	323	PX4	C5-N1	2.81	1.41	1.50	2	1
3	C	367	PX4	C25-C24	2.81	1.62	1.52	3	2
3	A	631	PX4	O7-C7	2.80	1.40	1.46	14	3
3	C	349	PX4	C3-N1	2.80	1.58	1.50	15	1
3	A	621	PX4	C6-C7	2.80	1.59	1.50	6	4
3	B	320	PX4	P1-O1	2.80	1.42	1.55	14	3
3	B	317	PX4	C11-C10	2.80	1.62	1.52	7	2
3	B	377	PX4	O7-C23	2.80	1.26	1.34	5	2
3	C	314	PX4	O7-C23	2.80	1.26	1.34	13	5
3	C	340	PX4	C8-C7	2.80	1.59	1.50	2	2
3	C	362	PX4	C6-C7	2.80	1.59	1.50	2	4
3	B	385	PX4	C4-N1	2.79	1.41	1.50	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	361	PX4	C11-C10	2.79	1.42	1.52	8	3
3	C	364	PX4	C4-N1	2.79	1.41	1.50	7	1
3	B	395	PX4	O7-C23	2.79	1.26	1.34	6	1
3	B	395	PX4	O5-C9	2.79	1.41	1.33	1	2
3	C	316	PX4	O7-C23	2.79	1.26	1.34	3	2
3	B	351	PX4	C3-N1	2.79	1.58	1.50	9	3
3	C	323	PX4	C25-C24	2.79	1.62	1.52	13	2
3	B	394	PX4	O7-C23	2.79	1.26	1.34	14	1
3	A	611	PX4	O5-C9	2.79	1.41	1.33	1	1
3	B	328	PX4	O7-C7	2.79	1.40	1.46	3	4
3	B	329	PX4	C12-C11	2.79	1.65	1.51	5	1
3	C	326	PX4	O7-C7	2.79	1.40	1.46	8	3
3	B	352	PX4	P1-O1	2.79	1.42	1.55	14	4
3	B	357	PX4	O7-C7	2.79	1.40	1.46	10	3
3	B	310	PX4	O7-C7	2.78	1.40	1.46	14	3
3	B	320	PX4	C2-N1	2.78	1.60	1.51	8	1
3	A	622	PX4	C11-C10	2.78	1.62	1.52	13	1
3	B	360	PX4	C24-C23	2.78	1.58	1.50	6	4
3	C	313	PX4	O7-C7	2.78	1.40	1.46	4	4
3	B	302	PX4	C15-C14	2.78	1.65	1.51	6	1
3	B	354	PX4	P1-O2	2.78	1.41	1.50	2	1
3	B	363	PX4	O7-C23	2.78	1.26	1.34	3	3
3	C	324	PX4	O5-C9	2.78	1.25	1.33	6	2
3	C	359	PX4	C2-C1	2.78	1.59	1.51	10	4
3	A	647	PX4	O7-C7	2.78	1.40	1.46	14	3
3	A	628	PX4	C3-N1	2.78	1.58	1.50	7	1
3	B	325	PX4	C10-C9	2.78	1.58	1.50	9	2
3	B	377	PX4	C10-C9	2.78	1.58	1.50	15	5
3	B	388	PX4	C24-C23	2.78	1.58	1.50	10	4
3	C	351	PX4	P1-O1	2.78	1.42	1.55	11	3
3	B	342	PX4	O3-C1	2.78	1.33	1.44	9	1
3	C	361	PX4	C10-C9	2.78	1.58	1.50	3	1
3	C	345	PX4	P1-O1	2.77	1.42	1.55	13	3
3	B	349	PX4	C6-C7	2.77	1.59	1.50	4	7
3	B	378	PX4	O5-C9	2.77	1.25	1.33	4	1
3	B	340	PX4	C24-C23	2.77	1.58	1.50	15	7
3	B	358	PX4	C3-N1	2.77	1.42	1.50	13	2
3	C	338	PX4	O7-C23	2.77	1.26	1.34	6	3
3	C	347	PX4	P1-O1	2.77	1.42	1.55	8	3
3	B	344	PX4	O5-C8	2.77	1.51	1.45	2	4
3	B	396	PX4	C10-C9	2.77	1.58	1.50	5	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	304	PX4	O7-C23	2.77	1.26	1.34	5	1
3	B	305	PX4	C2-C1	2.77	1.59	1.51	2	2
3	B	348	PX4	P1-O1	2.77	1.42	1.55	14	2
3	C	308	PX4	C2-C1	2.77	1.59	1.51	7	5
3	C	334	PX4	C3-N1	2.77	1.58	1.50	2	3
3	C	334	PX4	O7-C23	2.77	1.26	1.34	2	1
3	C	357	PX4	O7-C23	2.77	1.26	1.34	2	4
3	C	357	PX4	C24-C23	2.77	1.58	1.50	7	4
3	C	364	PX4	O7-C7	2.77	1.40	1.46	8	5
3	C	367	PX4	C10-C9	2.77	1.58	1.50	13	4
3	B	339	PX4	C28-C27	2.77	1.65	1.51	10	1
3	A	612	PX4	C10-C9	2.77	1.58	1.50	2	1
3	A	630	PX4	C2-C1	2.77	1.59	1.51	14	4
3	B	332	PX4	C2-N1	2.77	1.59	1.51	3	2
3	B	343	PX4	C25-C24	2.77	1.62	1.52	3	4
3	B	347	PX4	C6-C7	2.77	1.59	1.50	4	7
3	B	399	PX4	C2-N1	2.77	1.43	1.51	3	3
3	B	354	PX4	C3-N1	2.76	1.58	1.50	12	2
3	B	391	PX4	C24-C23	2.76	1.58	1.50	4	2
3	C	366	PX4	C5-N1	2.76	1.58	1.50	12	2
3	A	648	PX4	O7-C23	2.76	1.26	1.34	6	1
3	B	304	PX4	C8-C7	2.76	1.59	1.50	13	7
3	B	375	PX4	C6-C7	2.76	1.59	1.50	12	4
3	A	618	PX4	O5-C9	2.76	1.41	1.33	3	3
3	B	358	PX4	C25-C24	2.76	1.62	1.52	9	3
3	C	330	PX4	C24-C23	2.76	1.58	1.50	13	4
3	B	306	PX4	C11-C10	2.76	1.62	1.52	11	2
3	B	308	PX4	O7-C23	2.76	1.26	1.34	14	2
3	C	309	PX4	O7-C23	2.76	1.26	1.34	8	1
3	B	384	PX4	P1-O1	2.76	1.42	1.55	14	4
3	C	317	PX4	C5-N1	2.76	1.58	1.50	6	4
3	C	317	PX4	C13-C12	2.76	1.65	1.51	15	1
3	C	340	PX4	C25-C24	2.76	1.62	1.52	1	1
3	C	345	PX4	C4-N1	2.76	1.42	1.50	8	1
3	B	329	PX4	C10-C9	2.76	1.58	1.50	15	5
3	B	354	PX4	C25-C24	2.75	1.62	1.52	8	2
3	A	623	PX4	O5-C9	2.75	1.41	1.33	1	2
3	A	640	PX4	O7-C23	2.75	1.26	1.34	8	4
3	B	301	PX4	C5-N1	2.75	1.42	1.50	6	3
3	B	378	PX4	P1-O3	2.75	1.48	1.59	6	1
3	C	337	PX4	O7-C7	2.75	1.40	1.46	8	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	617	PX4	P1-O4	2.75	1.48	1.59	6	1
3	A	647	PX4	C24-C23	2.75	1.58	1.50	9	4
3	B	327	PX4	C25-C24	2.75	1.62	1.52	4	1
3	B	330	PX4	C33-C32	2.75	1.65	1.51	14	1
3	B	348	PX4	O7-C7	2.75	1.40	1.46	8	2
3	B	397	PX4	C11-C10	2.75	1.62	1.52	4	1
3	A	606	PX4	C2-N1	2.75	1.59	1.51	11	3
3	A	619	PX4	C4-N1	2.75	1.58	1.50	3	3
3	A	639	PX4	C8-C7	2.75	1.59	1.50	6	4
3	B	342	PX4	C24-C23	2.75	1.58	1.50	6	2
3	B	345	PX4	P1-O1	2.75	1.42	1.55	15	1
3	B	376	PX4	C2-N1	2.75	1.59	1.51	11	2
3	C	359	PX4	C17-C16	2.75	1.65	1.51	7	1
3	B	362	PX4	C3-N1	2.75	1.42	1.50	5	1
3	C	328	PX4	O5-C9	2.75	1.25	1.33	4	4
3	B	383	PX4	C25-C24	2.74	1.62	1.52	1	5
3	C	357	PX4	O5-C9	2.74	1.41	1.33	11	1
3	B	334	PX4	O5-C9	2.74	1.25	1.33	2	3
3	B	393	PX4	C11-C10	2.74	1.62	1.52	6	3
3	C	310	PX4	O5-C8	2.74	1.39	1.45	10	2
3	C	324	PX4	O7-C7	2.74	1.40	1.46	3	1
3	A	638	PX4	O7-C7	2.74	1.40	1.46	15	5
3	B	370	PX4	C4-N1	2.74	1.42	1.50	6	2
3	B	375	PX4	P1-O4	2.74	1.48	1.59	6	1
3	B	383	PX4	C3-N1	2.74	1.58	1.50	14	1
3	C	303	PX4	C6-C7	2.74	1.59	1.50	2	5
3	B	314	PX4	O7-C7	2.74	1.40	1.46	1	2
3	B	386	PX4	C2-C1	2.74	1.59	1.51	11	4
3	C	336	PX4	O7-C23	2.74	1.26	1.34	5	4
3	A	614	PX4	O5-C9	2.73	1.41	1.33	13	4
3	B	361	PX4	O7-C23	2.73	1.26	1.34	7	3
3	C	363	PX4	C25-C24	2.74	1.62	1.52	11	2
3	B	350	PX4	C3-N1	2.73	1.57	1.50	9	2
3	B	362	PX4	C2-N1	2.73	1.59	1.51	12	2
3	C	346	PX4	P1-O1	2.73	1.42	1.55	2	4
3	C	352	PX4	P1-O1	2.73	1.42	1.55	3	1
3	B	367	PX4	O7-C23	2.73	1.26	1.34	12	3
3	B	375	PX4	C4-N1	2.73	1.57	1.50	3	3
3	B	384	PX4	C24-C23	2.73	1.58	1.50	3	4
3	A	619	PX4	C24-C23	2.73	1.58	1.50	11	2
3	B	363	PX4	C10-C9	2.73	1.58	1.50	1	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	312	PX4	C29-C28	2.73	1.65	1.51	4	1
3	C	312	PX4	O5-C9	2.73	1.25	1.33	8	2
3	A	602	PX4	C4-N1	2.73	1.57	1.50	15	2
3	B	316	PX4	O5-C8	2.73	1.51	1.45	1	2
3	B	372	PX4	P1-O1	2.73	1.42	1.55	4	5
3	B	389	PX4	P1-O1	2.73	1.42	1.55	2	3
3	A	631	PX4	O5-C9	2.72	1.41	1.33	7	1
3	C	347	PX4	O7-C7	2.72	1.40	1.46	10	4
3	B	342	PX4	O5-C9	2.72	1.41	1.33	8	1
3	A	646	PX4	O5-C8	2.72	1.39	1.45	2	1
3	B	374	PX4	C2-C1	2.72	1.59	1.51	8	4
3	C	301	PX4	O7-C7	2.72	1.40	1.46	14	2
3	A	626	PX4	P1-O1	2.72	1.42	1.55	7	5
3	B	358	PX4	O5-C8	2.72	1.51	1.45	13	3
3	B	305	PX4	C4-N1	2.72	1.42	1.50	2	1
3	B	358	PX4	C11-C10	2.72	1.62	1.52	9	5
3	A	619	PX4	O7-C23	2.72	1.41	1.34	15	4
3	C	315	PX4	C6-C7	2.72	1.59	1.50	10	4
3	B	305	PX4	O5-C9	2.71	1.25	1.33	15	4
3	B	317	PX4	C3-N1	2.71	1.57	1.50	9	3
3	B	309	PX4	C3-N1	2.71	1.57	1.50	7	2
3	B	325	PX4	C25-C24	2.71	1.62	1.52	11	3
3	C	333	PX4	C16-C15	2.71	1.65	1.51	10	1
3	C	347	PX4	C13-C12	2.71	1.65	1.51	13	1
3	B	375	PX4	C25-C24	2.71	1.62	1.52	13	1
3	B	391	PX4	C2-N1	2.71	1.43	1.51	8	2
3	C	350	PX4	C11-C10	2.71	1.62	1.52	12	2
3	A	634	PX4	C30-C29	2.71	1.65	1.51	9	1
3	B	309	PX4	C4-N1	2.71	1.57	1.50	3	1
3	B	395	PX4	O5-C8	2.71	1.51	1.45	11	2
3	A	637	PX4	C6-C7	2.71	1.59	1.50	7	4
3	B	342	PX4	C5-N1	2.71	1.42	1.50	10	2
3	C	329	PX4	C4-N1	2.71	1.57	1.50	3	1
3	B	318	PX4	C4-N1	2.71	1.57	1.50	3	2
3	B	379	PX4	O5-C9	2.71	1.41	1.33	2	3
3	C	313	PX4	C4-N1	2.71	1.57	1.50	12	1
3	A	636	PX4	O5-C8	2.71	1.39	1.45	15	3
3	A	642	PX4	C10-C9	2.71	1.58	1.50	4	5
3	B	315	PX4	C2-N1	2.71	1.59	1.51	11	2
3	B	319	PX4	C8-C7	2.70	1.59	1.50	4	7
3	B	377	PX4	O7-C7	2.70	1.40	1.46	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	320	PX4	P1-O4	2.70	1.48	1.59	10	1
3	B	347	PX4	C4-N1	2.70	1.42	1.50	3	2
3	C	338	PX4	C20-C19	2.70	1.65	1.51	11	1
3	A	603	PX4	C10-C9	2.70	1.58	1.50	6	2
3	B	308	PX4	C2-C1	2.70	1.59	1.51	8	4
3	B	321	PX4	C11-C10	2.70	1.62	1.52	14	1
3	A	626	PX4	C24-C23	2.70	1.58	1.50	15	4
3	A	626	PX4	O7-C23	2.70	1.26	1.34	7	3
3	B	353	PX4	C25-C24	2.70	1.62	1.52	5	1
3	C	320	PX4	C33-C32	2.70	1.65	1.51	3	2
3	C	335	PX4	C6-C7	2.70	1.59	1.50	6	4
3	C	347	PX4	C8-C7	2.70	1.59	1.50	10	3
3	B	365	PX4	O5-C9	2.70	1.25	1.33	2	3
3	C	306	PX4	C10-C9	2.70	1.58	1.50	8	3
3	C	309	PX4	C24-C23	2.70	1.58	1.50	6	2
3	C	357	PX4	P1-O4	2.70	1.70	1.59	14	1
3	B	321	PX4	P1-O2	2.70	1.41	1.50	3	1
3	B	334	PX4	C4-N1	2.69	1.57	1.50	13	1
3	B	342	PX4	C2-C1	2.69	1.59	1.51	10	5
3	B	344	PX4	C4-N1	2.70	1.42	1.50	11	2
3	B	388	PX4	C10-C9	2.70	1.58	1.50	1	2
3	C	302	PX4	O7-C23	2.70	1.26	1.34	7	3
3	C	326	PX4	O7-C23	2.69	1.26	1.34	10	1
3	A	602	PX4	C2-N1	2.69	1.43	1.51	13	2
3	A	636	PX4	C11-C10	2.69	1.62	1.52	1	2
3	C	343	PX4	C6-C7	2.69	1.59	1.50	9	9
3	A	612	PX4	O7-C7	2.69	1.40	1.46	12	3
3	A	635	PX4	C2-N1	2.69	1.59	1.51	14	2
3	B	307	PX4	O5-C8	2.69	1.39	1.45	7	5
3	A	620	PX4	O7-C23	2.69	1.26	1.34	3	1
3	B	336	PX4	C11-C10	2.69	1.62	1.52	9	1
3	C	325	PX4	P1-O1	2.69	1.42	1.55	11	4
3	A	628	PX4	C2-C1	2.69	1.59	1.51	10	2
3	B	308	PX4	O7-C7	2.69	1.40	1.46	9	2
3	B	376	PX4	C4-N1	2.69	1.42	1.50	1	1
3	B	321	PX4	C10-C9	2.69	1.58	1.50	5	3
3	B	326	PX4	O7-C7	2.69	1.40	1.46	2	4
3	B	366	PX4	C2-C1	2.69	1.59	1.51	13	3
3	B	370	PX4	C11-C10	2.69	1.62	1.52	11	1
3	B	372	PX4	C25-C24	2.69	1.62	1.52	5	1
3	C	311	PX4	O3-C1	2.69	1.34	1.44	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	375	PX4	C10-C9	2.69	1.58	1.50	9	1
3	B	382	PX4	O7-C7	2.69	1.40	1.46	9	2
3	A	628	PX4	O5-C8	2.68	1.39	1.45	12	1
3	B	327	PX4	P1-O1	2.68	1.42	1.55	2	2
3	B	337	PX4	C10-C9	2.68	1.58	1.50	13	3
3	B	391	PX4	C30-C29	2.68	1.65	1.51	1	1
3	B	392	PX4	C11-C10	2.68	1.62	1.52	12	1
3	C	324	PX4	P1-O1	2.68	1.42	1.55	5	3
3	C	334	PX4	P1-O1	2.68	1.42	1.55	5	4
3	C	336	PX4	C6-C7	2.68	1.59	1.50	15	6
3	C	354	PX4	C12-C11	2.68	1.65	1.51	3	1
3	B	311	PX4	C29-C28	2.68	1.65	1.51	15	2
3	B	345	PX4	C5-N1	2.68	1.57	1.50	2	1
3	B	385	PX4	P1-O1	2.68	1.42	1.55	15	5
3	B	364	PX4	C11-C10	2.68	1.62	1.52	1	2
3	B	373	PX4	C27-C26	2.68	1.65	1.51	4	2
3	A	604	PX4	C11-C10	2.68	1.62	1.52	3	2
3	A	644	PX4	C25-C24	2.68	1.62	1.52	1	3
3	B	313	PX4	C4-N1	2.68	1.57	1.50	3	2
3	A	601	PX4	C11-C10	2.67	1.62	1.52	9	2
3	B	326	PX4	C10-C9	2.67	1.58	1.50	5	2
3	B	328	PX4	O5-C9	2.67	1.25	1.33	11	2
3	A	621	PX4	O3-C1	2.67	1.34	1.44	10	1
3	B	373	PX4	C2-N1	2.67	1.59	1.51	1	2
3	C	312	PX4	C11-C10	2.67	1.62	1.52	11	3
3	A	602	PX4	O5-C9	2.67	1.25	1.33	9	1
3	A	638	PX4	C24-C23	2.67	1.58	1.50	2	3
3	B	316	PX4	C4-N1	2.67	1.57	1.50	4	1
3	B	392	PX4	C25-C24	2.67	1.62	1.52	5	2
3	C	361	PX4	C3-N1	2.67	1.57	1.50	2	2
3	C	322	PX4	C19-C18	2.67	1.65	1.51	9	1
3	C	360	PX4	O7-C7	2.67	1.40	1.46	8	1
3	C	335	PX4	P1-O3	2.67	1.48	1.59	12	1
3	B	381	PX4	O5-C8	2.67	1.51	1.45	10	2
3	C	319	PX4	O7-C7	2.67	1.40	1.46	6	3
3	A	615	PX4	C10-C9	2.67	1.58	1.50	12	4
3	C	331	PX4	O5-C8	2.67	1.39	1.45	3	2
3	C	321	PX4	C5-N1	2.66	1.57	1.50	4	2
3	C	327	PX4	C24-C23	2.67	1.58	1.50	7	2
3	C	362	PX4	C25-C24	2.67	1.62	1.52	14	2
3	C	368	PX4	O7-C23	2.67	1.26	1.34	1	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	381	PX4	C10-C9	2.66	1.58	1.50	8	2
3	C	326	PX4	C25-C24	2.66	1.61	1.52	1	2
3	A	604	PX4	O5-C8	2.66	1.51	1.45	14	2
3	A	633	PX4	O5-C8	2.66	1.51	1.45	5	2
3	A	638	PX4	C28-C27	2.66	1.65	1.51	1	1
3	B	319	PX4	C11-C10	2.66	1.61	1.52	8	3
3	B	326	PX4	C5-N1	2.66	1.57	1.50	9	1
3	B	330	PX4	C5-N1	2.66	1.42	1.50	4	1
3	B	378	PX4	C29-C28	2.66	1.65	1.51	7	2
3	C	330	PX4	C18-C17	2.66	1.65	1.51	15	2
3	C	335	PX4	C24-C23	2.66	1.58	1.50	7	1
3	B	397	PX4	O5-C8	2.66	1.39	1.45	5	3
3	C	343	PX4	C11-C10	2.66	1.61	1.52	3	2
3	A	625	PX4	C24-C23	2.66	1.58	1.50	10	2
3	B	354	PX4	C10-C9	2.66	1.58	1.50	4	5
3	C	346	PX4	C11-C10	2.66	1.61	1.52	13	3
3	C	361	PX4	C12-C11	2.66	1.65	1.51	3	1
3	B	304	PX4	C25-C24	2.66	1.61	1.52	8	3
3	A	602	PX4	C11-C10	2.66	1.61	1.52	13	1
3	B	302	PX4	C10-C9	2.66	1.58	1.50	6	4
3	B	357	PX4	C6-C7	2.66	1.59	1.50	2	5
3	B	393	PX4	C24-C23	2.66	1.58	1.50	12	6
3	B	358	PX4	P1-O1	2.66	1.43	1.55	3	1
3	B	363	PX4	O5-C8	2.66	1.51	1.45	6	2
3	C	315	PX4	C25-C24	2.66	1.61	1.52	1	1
3	C	323	PX4	O7-C23	2.66	1.26	1.34	12	1
3	A	629	PX4	C10-C9	2.65	1.58	1.50	2	4
3	B	322	PX4	C25-C24	2.65	1.61	1.52	15	2
3	B	337	PX4	P1-O1	2.65	1.43	1.55	7	3
3	A	607	PX4	O5-C8	2.65	1.51	1.45	8	1
3	A	639	PX4	P1-O3	2.65	1.49	1.59	15	4
3	C	301	PX4	C29-C28	2.65	1.65	1.51	12	1
3	A	619	PX4	C11-C10	2.65	1.61	1.52	10	1
3	A	629	PX4	C2-N1	2.65	1.59	1.51	4	2
3	A	641	PX4	C24-C23	2.65	1.58	1.50	2	2
3	B	387	PX4	C5-N1	2.65	1.42	1.50	4	1
3	C	334	PX4	C24-C23	2.65	1.58	1.50	11	4
3	A	632	PX4	C11-C10	2.65	1.61	1.52	10	2
3	B	324	PX4	C12-C11	2.65	1.65	1.51	13	1
3	B	346	PX4	C8-C7	2.65	1.59	1.50	6	3
3	B	310	PX4	C3-N1	2.65	1.57	1.50	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	314	PX4	C28-C27	2.65	1.65	1.51	5	1
3	B	328	PX4	O5-C8	2.65	1.51	1.45	4	1
3	B	338	PX4	C6-C7	2.65	1.59	1.50	15	4
3	B	311	PX4	P1-O2	2.65	1.41	1.50	6	2
3	B	347	PX4	C8-C7	2.65	1.59	1.50	12	5
3	B	400	PX4	O5-C9	2.65	1.41	1.33	11	1
3	A	629	PX4	C11-C10	2.65	1.61	1.52	9	1
3	B	350	PX4	C25-C24	2.65	1.61	1.52	3	3
3	B	352	PX4	C25-C24	2.65	1.61	1.52	15	2
3	B	355	PX4	C25-C24	2.65	1.61	1.52	2	1
3	C	360	PX4	C4-N1	2.65	1.57	1.50	1	1
3	B	331	PX4	C3-N1	2.64	1.57	1.50	9	1
3	A	631	PX4	C20-C19	2.64	1.64	1.51	8	1
3	B	342	PX4	C27-C26	2.64	1.64	1.51	1	1
3	B	345	PX4	O7-C23	2.64	1.26	1.34	15	3
3	B	373	PX4	C11-C10	2.64	1.61	1.52	8	2
3	B	388	PX4	C2-C1	2.64	1.59	1.51	14	3
3	C	366	PX4	C24-C23	2.64	1.58	1.50	14	2
3	B	314	PX4	O5-C9	2.64	1.41	1.33	8	2
3	B	400	PX4	C2-N1	2.64	1.59	1.51	2	2
3	A	624	PX4	P1-O1	2.64	1.43	1.55	5	4
3	A	645	PX4	O5-C8	2.64	1.39	1.45	10	2
3	B	320	PX4	O5-C8	2.64	1.39	1.45	12	3
3	C	338	PX4	C11-C10	2.64	1.61	1.52	11	3
3	C	327	PX4	C10-C9	2.64	1.58	1.50	8	3
3	C	344	PX4	O5-C8	2.64	1.51	1.45	5	1
3	A	626	PX4	C6-C7	2.64	1.59	1.50	1	3
3	B	336	PX4	P1-O1	2.64	1.43	1.55	13	8
3	C	344	PX4	C25-C24	2.64	1.61	1.52	7	3
3	A	603	PX4	C25-C24	2.64	1.61	1.52	12	2
3	B	303	PX4	C5-N1	2.64	1.57	1.50	9	1
3	B	389	PX4	C3-N1	2.64	1.42	1.50	14	2
3	C	369	PX4	C2-C1	2.64	1.59	1.51	5	8
3	B	301	PX4	O5-C8	2.63	1.51	1.45	7	2
3	B	339	PX4	P1-O1	2.63	1.43	1.55	13	5
3	A	626	PX4	C5-N1	2.63	1.57	1.50	10	1
3	A	632	PX4	C4-N1	2.63	1.42	1.50	10	1
3	C	305	PX4	C4-N1	2.63	1.57	1.50	11	1
3	C	360	PX4	C24-C23	2.63	1.58	1.50	15	2
3	A	646	PX4	C25-C24	2.63	1.61	1.52	3	3
3	C	334	PX4	C2-N1	2.63	1.59	1.51	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	309	PX4	C20-C19	2.63	1.64	1.51	2	1
3	A	642	PX4	O3-C1	2.63	1.34	1.44	14	1
3	C	320	PX4	O3-C1	2.63	1.34	1.44	6	1
3	C	339	PX4	C10-C9	2.63	1.58	1.50	4	5
3	C	347	PX4	C2-C1	2.63	1.59	1.51	10	6
3	B	305	PX4	C27-C26	2.63	1.64	1.51	4	1
3	C	344	PX4	C24-C23	2.63	1.58	1.50	3	4
3	C	345	PX4	O7-C23	2.63	1.41	1.34	2	2
3	C	348	PX4	O7-C7	2.63	1.40	1.46	6	3
3	B	390	PX4	P1-O1	2.63	1.43	1.55	12	4
3	A	601	PX4	C25-C24	2.62	1.61	1.52	14	1
3	B	400	PX4	P1-O3	2.62	1.49	1.59	12	1
3	B	353	PX4	C14-C13	2.62	1.64	1.51	9	1
3	A	646	PX4	P1-O1	2.62	1.43	1.55	7	5
3	B	393	PX4	P1-O1	2.62	1.43	1.55	13	7
3	A	647	PX4	P1-O4	2.62	1.49	1.59	6	1
3	B	307	PX4	O7-C23	2.62	1.26	1.34	1	3
3	B	307	PX4	P1-O1	2.62	1.43	1.55	2	3
3	C	318	PX4	C11-C10	2.62	1.61	1.52	10	1
3	C	353	PX4	C11-C10	2.62	1.61	1.52	7	2
3	B	392	PX4	C4-N1	2.62	1.57	1.50	1	1
3	A	613	PX4	C25-C24	2.62	1.61	1.52	10	2
3	B	375	PX4	P1-O2	2.62	1.41	1.50	12	1
3	B	367	PX4	O5-C9	2.61	1.41	1.33	14	2
3	B	348	PX4	O7-C23	2.61	1.41	1.34	5	2
3	A	610	PX4	C15-C14	2.61	1.64	1.51	7	1
3	C	321	PX4	P1-O1	2.61	1.43	1.55	6	3
3	C	316	PX4	P1-O4	2.61	1.49	1.59	10	1
3	C	328	PX4	C6-C7	2.61	1.59	1.50	3	3
3	B	310	PX4	C11-C10	2.61	1.61	1.52	3	1
3	B	316	PX4	C3-N1	2.61	1.57	1.50	9	2
3	C	311	PX4	O4-C6	2.61	1.34	1.44	1	1
3	C	342	PX4	C18-C17	2.61	1.64	1.51	11	1
3	A	639	PX4	C10-C9	2.61	1.58	1.50	11	3
3	B	344	PX4	C25-C24	2.61	1.61	1.52	7	1
3	C	317	PX4	C25-C24	2.61	1.61	1.52	14	3
3	B	383	PX4	O5-C9	2.61	1.41	1.33	3	2
3	C	356	PX4	C24-C23	2.61	1.58	1.50	8	2
3	A	602	PX4	P1-O1	2.61	1.43	1.55	8	4
3	A	609	PX4	C2-N1	2.61	1.59	1.51	5	1
3	A	620	PX4	C11-C10	2.61	1.61	1.52	11	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	623	PX4	O3-C1	2.61	1.34	1.44	4	1
3	A	627	PX4	C4-N1	2.61	1.57	1.50	6	1
3	A	627	PX4	C15-C14	2.61	1.38	1.51	7	2
3	A	633	PX4	C5-N1	2.61	1.42	1.50	13	2
3	C	334	PX4	O5-C8	2.61	1.51	1.45	5	1
3	C	350	PX4	O7-C23	2.61	1.26	1.34	5	3
3	B	325	PX4	O7-C7	2.60	1.40	1.46	14	1
3	B	326	PX4	C29-C28	2.60	1.64	1.51	3	2
3	B	341	PX4	C28-C27	2.60	1.64	1.51	8	1
3	B	371	PX4	C3-N1	2.60	1.42	1.50	13	2
3	C	345	PX4	O5-C8	2.60	1.51	1.45	3	2
3	C	311	PX4	O5-C9	2.60	1.40	1.33	6	2
3	A	627	PX4	C10-C9	2.60	1.58	1.50	11	1
3	C	306	PX4	C4-N1	2.60	1.42	1.50	14	2
3	C	347	PX4	O5-C8	2.60	1.51	1.45	9	3
3	C	348	PX4	C2-N1	2.60	1.59	1.51	2	2
3	C	356	PX4	C11-C10	2.60	1.61	1.52	9	3
3	C	303	PX4	C3-N1	2.60	1.57	1.50	14	4
3	C	303	PX4	C28-C27	2.60	1.64	1.51	14	1
3	B	386	PX4	O7-C7	2.60	1.40	1.46	15	2
3	C	306	PX4	C3-N1	2.60	1.42	1.50	4	1
3	A	624	PX4	C10-C9	2.60	1.58	1.50	2	3
3	A	647	PX4	C20-C19	2.60	1.64	1.51	1	2
3	B	383	PX4	C6-C7	2.60	1.58	1.50	6	3
3	B	390	PX4	C25-C24	2.60	1.61	1.52	15	3
3	C	339	PX4	C24-C23	2.60	1.58	1.50	12	3
3	C	367	PX4	C2-N1	2.60	1.59	1.51	3	1
3	B	325	PX4	O7-C23	2.59	1.26	1.34	14	3
3	B	330	PX4	C25-C24	2.59	1.61	1.52	12	3
3	B	335	PX4	O7-C7	2.59	1.40	1.46	13	4
3	A	617	PX4	O5-C9	2.59	1.25	1.33	4	2
3	A	632	PX4	P1-O1	2.59	1.43	1.55	5	3
3	A	608	PX4	O4-C6	2.59	1.34	1.44	11	1
3	B	391	PX4	P1-O3	2.59	1.49	1.59	15	1
3	C	326	PX4	C10-C9	2.59	1.58	1.50	11	1
3	A	628	PX4	P1-O1	2.59	1.43	1.55	8	3
3	A	640	PX4	C3-N1	2.59	1.57	1.50	5	1
3	B	310	PX4	C25-C24	2.59	1.61	1.52	11	1
3	B	358	PX4	C24-C23	2.59	1.58	1.50	6	3
3	C	364	PX4	C5-N1	2.59	1.42	1.50	1	1
3	B	386	PX4	C16-C15	2.59	1.64	1.51	13	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	632	PX4	P1-O2	2.59	1.41	1.50	1	1
3	A	639	PX4	O5-C9	2.59	1.40	1.33	11	1
3	B	330	PX4	C24-C23	2.59	1.58	1.50	10	2
3	B	377	PX4	C3-N1	2.59	1.57	1.50	9	1
3	B	387	PX4	C3-N1	2.59	1.42	1.50	12	1
3	C	333	PX4	C28-C27	2.59	1.64	1.51	5	1
3	B	332	PX4	C26-C25	2.59	1.64	1.51	12	1
3	B	356	PX4	C2-N1	2.59	1.59	1.51	7	1
3	C	349	PX4	C30-C29	2.59	1.64	1.51	4	2
3	C	340	PX4	C11-C10	2.58	1.61	1.52	4	2
3	C	347	PX4	C29-C28	2.58	1.64	1.51	9	1
3	A	645	PX4	C5-N1	2.58	1.42	1.50	13	2
3	C	345	PX4	C25-C24	2.58	1.61	1.52	11	3
3	C	348	PX4	P1-O1	2.58	1.43	1.55	4	2
3	A	637	PX4	C3-N1	2.58	1.57	1.50	9	3
3	A	648	PX4	C24-C23	2.58	1.58	1.50	1	3
3	B	341	PX4	C16-C15	2.58	1.64	1.51	2	1
3	C	311	PX4	C4-N1	2.58	1.42	1.50	15	5
3	B	384	PX4	C2-N1	2.58	1.59	1.51	13	1
3	C	310	PX4	C5-N1	2.58	1.57	1.50	12	1
3	A	623	PX4	O7-C23	2.58	1.27	1.34	8	4
3	A	646	PX4	C20-C19	2.58	1.64	1.51	9	2
3	B	311	PX4	C25-C24	2.57	1.61	1.52	12	1
3	B	335	PX4	O7-C23	2.57	1.27	1.34	11	4
3	C	360	PX4	C31-C30	2.58	1.64	1.51	7	1
3	B	339	PX4	C11-C10	2.57	1.61	1.52	5	1
3	B	362	PX4	C24-C23	2.57	1.58	1.50	2	3
3	C	307	PX4	C24-C23	2.57	1.58	1.50	3	1
3	A	636	PX4	O7-C7	2.57	1.40	1.46	10	1
3	B	374	PX4	O5-C9	2.57	1.40	1.33	5	2
3	B	384	PX4	C26-C25	2.57	1.64	1.51	15	1
3	C	323	PX4	C5-N1	2.57	1.57	1.50	11	2
3	C	326	PX4	O5-C8	2.57	1.50	1.45	12	4
3	C	331	PX4	O7-C23	2.57	1.27	1.34	15	1
3	C	363	PX4	C10-C9	2.57	1.58	1.50	4	3
3	C	368	PX4	C4-N1	2.57	1.42	1.50	7	2
3	B	373	PX4	O5-C9	2.57	1.40	1.33	14	2
3	B	392	PX4	C8-C7	2.57	1.58	1.50	14	3
3	C	303	PX4	C33-C32	2.57	1.64	1.51	7	1
3	B	340	PX4	C25-C24	2.57	1.61	1.52	10	2
3	B	350	PX4	P1-O4	2.57	1.49	1.59	1	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	320	PX4	C11-C10	2.57	1.61	1.52	14	1
3	B	314	PX4	C33-C32	2.57	1.64	1.51	2	1
3	C	349	PX4	P1-O1	2.57	1.43	1.55	7	2
3	A	634	PX4	C2-N1	2.57	1.59	1.51	10	1
3	B	335	PX4	P1-O2	2.57	1.41	1.50	10	2
3	C	353	PX4	C6-C7	2.57	1.58	1.50	5	3
3	A	631	PX4	P1-O1	2.56	1.43	1.55	8	4
3	C	303	PX4	O7-C7	2.56	1.40	1.46	1	7
3	C	367	PX4	C33-C32	2.56	1.64	1.51	15	1
3	A	604	PX4	O7-C7	2.56	1.40	1.46	4	2
3	B	343	PX4	C5-N1	2.56	1.42	1.50	9	1
3	A	644	PX4	C18-C17	2.56	1.64	1.51	13	1
3	C	318	PX4	C10-C9	2.56	1.58	1.50	2	2
3	C	348	PX4	C10-C9	2.56	1.58	1.50	4	1
3	B	387	PX4	P1-O1	2.56	1.43	1.55	1	4
3	C	368	PX4	C19-C18	2.56	1.64	1.51	11	1
3	B	309	PX4	C11-C10	2.56	1.61	1.52	7	1
3	A	603	PX4	P1-O1	2.56	1.43	1.55	7	4
3	A	610	PX4	C11-C10	2.56	1.61	1.52	10	3
3	A	634	PX4	O5-C8	2.56	1.39	1.45	15	2
3	B	314	PX4	P1-O2	2.56	1.41	1.50	7	1
3	B	370	PX4	C24-C23	2.56	1.58	1.50	7	4
3	C	332	PX4	C2-N1	2.56	1.59	1.51	15	1
3	C	305	PX4	C25-C24	2.56	1.61	1.52	9	3
3	C	311	PX4	C10-C9	2.56	1.58	1.50	7	2
3	C	360	PX4	C10-C9	2.56	1.58	1.50	6	2
3	B	306	PX4	C4-N1	2.56	1.57	1.50	8	1
3	B	358	PX4	C2-N1	2.56	1.59	1.51	11	2
3	C	326	PX4	C24-C23	2.56	1.58	1.50	1	1
3	A	609	PX4	O5-C8	2.56	1.50	1.45	14	5
3	A	648	PX4	C11-C10	2.56	1.61	1.52	8	3
3	C	359	PX4	O3-C1	2.56	1.34	1.44	14	1
3	A	626	PX4	O5-C8	2.55	1.39	1.45	14	1
3	B	303	PX4	C11-C10	2.55	1.61	1.52	14	1
3	B	337	PX4	C11-C10	2.55	1.61	1.52	6	2
3	B	389	PX4	C25-C24	2.55	1.61	1.52	12	1
3	C	330	PX4	P1-O1	2.55	1.43	1.55	4	2
3	A	605	PX4	P1-O1	2.55	1.43	1.55	9	3
3	A	631	PX4	C2-N1	2.55	1.43	1.51	2	1
3	B	356	PX4	O7-C23	2.55	1.27	1.34	3	2
3	A	613	PX4	C10-C9	2.55	1.58	1.50	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	636	PX4	P1-O1	2.55	1.43	1.55	1	5
3	C	351	PX4	C27-C26	2.55	1.64	1.51	4	1
3	C	367	PX4	O7-C23	2.55	1.27	1.34	5	1
3	B	319	PX4	O5-C8	2.55	1.50	1.45	9	3
3	B	378	PX4	C24-C23	2.55	1.58	1.50	9	1
3	B	339	PX4	O7-C23	2.55	1.27	1.34	2	2
3	B	367	PX4	O5-C8	2.55	1.39	1.45	5	1
3	B	374	PX4	O7-C7	2.55	1.40	1.46	10	1
3	C	354	PX4	O5-C9	2.55	1.40	1.33	1	1
3	A	602	PX4	C3-N1	2.55	1.57	1.50	11	2
3	B	342	PX4	O7-C23	2.55	1.27	1.34	2	3
3	B	362	PX4	C10-C9	2.55	1.43	1.50	15	4
3	B	366	PX4	P1-O1	2.55	1.43	1.55	13	4
3	A	621	PX4	C5-N1	2.55	1.42	1.50	9	1
3	A	625	PX4	C11-C10	2.55	1.61	1.52	15	2
3	B	307	PX4	C25-C24	2.55	1.61	1.52	13	3
3	B	378	PX4	P1-O1	2.54	1.43	1.55	15	4
3	B	390	PX4	C2-N1	2.54	1.59	1.51	15	3
3	C	332	PX4	C25-C24	2.54	1.61	1.52	5	3
3	C	354	PX4	C25-C24	2.55	1.61	1.52	1	2
3	B	375	PX4	P1-O1	2.54	1.43	1.55	4	2
3	B	395	PX4	C25-C24	2.54	1.61	1.52	7	1
3	C	304	PX4	C25-C24	2.54	1.61	1.52	10	2
3	C	311	PX4	P1-O1	2.54	1.43	1.55	5	3
3	C	340	PX4	O5-C9	2.54	1.40	1.33	11	1
3	B	318	PX4	C5-N1	2.54	1.42	1.50	3	1
3	B	352	PX4	C24-C23	2.54	1.58	1.50	1	2
3	B	317	PX4	C4-N1	2.54	1.57	1.50	5	2
3	C	315	PX4	P1-O1	2.54	1.43	1.55	13	6
3	C	336	PX4	C31-C30	2.54	1.64	1.51	14	1
3	A	606	PX4	O4-C6	2.54	1.35	1.44	15	1
3	B	382	PX4	P1-O1	2.54	1.43	1.55	15	2
3	C	328	PX4	O5-C8	2.54	1.39	1.45	9	3
3	A	603	PX4	C11-C10	2.54	1.61	1.52	1	3
3	B	384	PX4	P1-O2	2.54	1.42	1.50	9	1
3	C	311	PX4	C6-C7	2.54	1.58	1.50	11	6
3	C	341	PX4	P1-O1	2.54	1.43	1.55	4	5
3	B	301	PX4	C11-C10	2.54	1.61	1.52	15	2
3	B	322	PX4	C5-N1	2.54	1.57	1.50	11	1
3	B	314	PX4	C25-C24	2.54	1.61	1.52	3	6
3	A	644	PX4	P1-O1	2.53	1.43	1.55	13	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	353	PX4	O7-C7	2.53	1.40	1.46	7	1
3	B	375	PX4	O3-C1	2.53	1.34	1.44	5	1
3	C	334	PX4	O7-C7	2.54	1.40	1.46	9	2
3	C	356	PX4	C10-C9	2.53	1.58	1.50	9	1
3	C	365	PX4	O5-C9	2.53	1.40	1.33	11	4
3	A	605	PX4	C4-N1	2.53	1.42	1.50	6	2
3	B	326	PX4	O5-C8	2.53	1.50	1.45	7	1
3	B	383	PX4	C2-N1	2.53	1.59	1.51	12	2
3	A	618	PX4	C2-C1	2.53	1.59	1.51	11	1
3	B	361	PX4	C2-N1	2.53	1.43	1.51	2	1
3	B	363	PX4	C5-N1	2.53	1.57	1.50	5	2
3	B	388	PX4	C3-N1	2.53	1.57	1.50	11	1
3	B	372	PX4	C2-C1	2.53	1.59	1.51	15	3
3	B	391	PX4	O5-C8	2.53	1.39	1.45	15	2
3	C	346	PX4	C24-C23	2.53	1.58	1.50	15	2
3	A	623	PX4	C24-C23	2.53	1.43	1.50	8	1
3	B	314	PX4	P1-O1	2.53	1.43	1.55	10	5
3	B	329	PX4	C15-C14	2.53	1.64	1.51	6	1
3	C	342	PX4	C2-N1	2.53	1.59	1.51	10	1
3	B	329	PX4	P1-O1	2.53	1.43	1.55	12	3
3	B	349	PX4	C3-N1	2.52	1.42	1.50	11	1
3	B	382	PX4	C10-C9	2.52	1.58	1.50	10	2
3	C	314	PX4	C25-C24	2.52	1.61	1.52	3	1
3	A	612	PX4	O5-C8	2.52	1.50	1.45	2	1
3	A	613	PX4	C2-N1	2.52	1.59	1.51	13	1
3	C	317	PX4	P1-O1	2.52	1.43	1.55	1	3
3	A	646	PX4	O7-C23	2.52	1.27	1.34	7	1
3	B	339	PX4	O5-C8	2.52	1.39	1.45	11	1
3	B	382	PX4	C5-N1	2.52	1.57	1.50	15	1
3	B	398	PX4	P1-O4	2.52	1.49	1.59	5	2
3	C	312	PX4	C25-C24	2.52	1.61	1.52	15	1
3	C	354	PX4	C3-N1	2.52	1.57	1.50	4	2
3	C	369	PX4	O5-C9	2.52	1.26	1.33	15	3
3	B	330	PX4	C11-C10	2.52	1.61	1.52	2	2
3	C	336	PX4	O5-C8	2.52	1.50	1.45	10	2
3	C	311	PX4	O7-C23	2.52	1.27	1.34	11	2
3	A	610	PX4	C18-C17	2.52	1.64	1.51	7	1
3	C	319	PX4	O7-C23	2.52	1.27	1.34	1	3
3	C	338	PX4	C2-N1	2.52	1.59	1.51	9	4
3	C	368	PX4	O5-C9	2.52	1.40	1.33	5	1
3	B	316	PX4	C11-C10	2.52	1.61	1.52	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	619	PX4	C2-N1	2.51	1.59	1.51	7	4
3	B	341	PX4	P1-O1	2.51	1.43	1.55	11	4
3	B	342	PX4	C11-C10	2.51	1.61	1.52	4	2
3	B	360	PX4	C11-C10	2.51	1.61	1.52	8	1
3	B	385	PX4	C24-C23	2.51	1.58	1.50	1	2
3	C	359	PX4	C31-C30	2.51	1.64	1.51	7	1
3	A	625	PX4	O5-C9	2.51	1.40	1.33	10	3
3	B	327	PX4	P1-O4	2.51	1.49	1.59	10	1
3	C	364	PX4	C6-C7	2.51	1.58	1.50	15	3
3	A	646	PX4	P1-O4	2.51	1.49	1.59	12	1
3	B	348	PX4	C10-C9	2.51	1.58	1.50	8	3
3	C	310	PX4	C2-C1	2.51	1.58	1.51	13	3
3	A	608	PX4	O7-C23	2.51	1.27	1.34	13	2
3	B	316	PX4	O7-C7	2.51	1.52	1.46	14	4
3	B	355	PX4	P1-O1	2.51	1.43	1.55	6	2
3	C	343	PX4	C10-C9	2.51	1.58	1.50	10	1
3	C	344	PX4	C2-N1	2.51	1.59	1.51	13	3
3	A	623	PX4	C11-C10	2.51	1.61	1.52	5	1
3	A	629	PX4	C24-C23	2.51	1.58	1.50	5	1
3	C	314	PX4	C5-N1	2.51	1.42	1.50	8	1
3	B	316	PX4	C25-C24	2.51	1.61	1.52	4	4
3	B	353	PX4	C3-N1	2.51	1.42	1.50	6	1
3	B	361	PX4	P1-O1	2.51	1.43	1.55	13	3
3	C	355	PX4	O5-C9	2.51	1.40	1.33	14	1
3	A	608	PX4	O3-C1	2.50	1.34	1.44	14	1
3	A	615	PX4	C31-C30	2.50	1.64	1.51	15	1
3	A	636	PX4	P1-O4	2.50	1.49	1.59	11	1
3	B	366	PX4	O7-C23	2.50	1.27	1.34	14	4
3	B	389	PX4	O7-C7	2.50	1.40	1.46	14	4
3	C	330	PX4	C25-C24	2.50	1.61	1.52	14	2
3	B	314	PX4	C4-N1	2.50	1.57	1.50	4	2
3	B	338	PX4	C25-C24	2.50	1.61	1.52	15	3
3	B	325	PX4	P1-O1	2.50	1.43	1.55	6	2
3	C	328	PX4	P1-O2	2.50	1.42	1.50	15	2
3	C	357	PX4	P1-O1	2.50	1.43	1.55	8	4
3	A	601	PX4	C26-C25	2.50	1.64	1.51	14	1
3	A	633	PX4	C3-N1	2.50	1.57	1.50	1	1
3	B	364	PX4	O7-C23	2.50	1.27	1.34	4	2
3	C	340	PX4	P1-O1	2.50	1.43	1.55	5	3
3	C	345	PX4	C30-C29	2.50	1.64	1.51	5	1
3	A	645	PX4	P1-O1	2.50	1.43	1.55	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	348	PX4	C25-C24	2.50	1.61	1.52	12	1
3	B	373	PX4	C28-C27	2.50	1.64	1.51	1	1
3	C	367	PX4	C5-N1	2.50	1.57	1.50	2	2
3	C	361	PX4	C2-N1	2.50	1.59	1.51	7	1
3	A	632	PX4	O7-C7	2.50	1.40	1.46	12	3
3	B	303	PX4	C3-N1	2.50	1.42	1.50	4	1
3	B	384	PX4	C3-N1	2.50	1.57	1.50	15	1
3	C	304	PX4	C11-C10	2.50	1.61	1.52	15	1
3	C	364	PX4	O5-C8	2.50	1.50	1.45	9	2
3	B	302	PX4	C11-C10	2.49	1.61	1.52	10	1
3	B	399	PX4	O7-C23	2.50	1.27	1.34	11	2
3	B	351	PX4	O7-C7	2.49	1.52	1.46	14	2
3	B	395	PX4	C2-C1	2.49	1.58	1.51	9	2
3	A	634	PX4	C25-C24	2.49	1.61	1.52	5	2
3	B	385	PX4	C11-C10	2.49	1.61	1.52	9	1
3	C	362	PX4	C2-N1	2.49	1.59	1.51	8	1
3	A	637	PX4	C10-C9	2.49	1.57	1.50	15	2
3	B	307	PX4	C5-N1	2.49	1.42	1.50	15	3
3	B	317	PX4	P1-O1	2.49	1.43	1.55	5	4
3	B	377	PX4	C31-C30	2.49	1.64	1.51	8	1
3	B	380	PX4	C25-C24	2.49	1.61	1.52	2	1
3	C	304	PX4	O5-C9	2.49	1.26	1.33	1	1
3	C	341	PX4	C24-C23	2.49	1.57	1.50	8	3
3	B	302	PX4	C6-C7	2.49	1.58	1.50	2	7
3	B	331	PX4	C11-C10	2.49	1.61	1.52	8	1
3	C	369	PX4	C25-C24	2.49	1.61	1.52	10	4
3	B	392	PX4	P1-O1	2.49	1.43	1.55	8	6
3	C	311	PX4	C11-C10	2.49	1.61	1.52	3	1
3	B	388	PX4	C4-N1	2.49	1.42	1.50	3	1
3	C	303	PX4	P1-O1	2.49	1.43	1.55	7	2
3	C	366	PX4	C2-N1	2.49	1.43	1.51	3	1
3	C	367	PX4	P1-O1	2.49	1.43	1.55	10	4
3	B	346	PX4	C10-C9	2.49	1.43	1.50	10	1
3	B	362	PX4	P1-O1	2.48	1.43	1.55	7	2
3	C	323	PX4	O5-C9	2.49	1.26	1.33	6	1
3	C	332	PX4	C11-C10	2.48	1.61	1.52	1	2
3	C	357	PX4	C10-C9	2.48	1.57	1.50	8	2
3	B	347	PX4	P1-O1	2.48	1.43	1.55	5	3
3	B	356	PX4	P1-O1	2.48	1.43	1.55	2	2
3	C	316	PX4	C11-C10	2.48	1.61	1.52	11	2
3	B	302	PX4	C4-N1	2.48	1.42	1.50	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	335	PX4	O3-C1	2.48	1.34	1.44	13	1
3	C	343	PX4	O5-C8	2.48	1.39	1.45	5	2
3	B	324	PX4	P1-O4	2.48	1.49	1.59	4	2
3	B	359	PX4	C34-C33	2.48	1.64	1.51	3	1
3	C	343	PX4	C24-C23	2.48	1.57	1.50	11	2
3	A	635	PX4	C25-C24	2.48	1.61	1.52	13	1
3	A	642	PX4	O5-C9	2.48	1.40	1.33	15	3
3	B	306	PX4	C5-N1	2.48	1.42	1.50	9	1
3	B	340	PX4	O4-C6	2.48	1.35	1.44	2	1
3	B	383	PX4	C2-C1	2.48	1.58	1.51	12	3
3	C	342	PX4	C10-C9	2.48	1.57	1.50	15	2
3	C	353	PX4	O7-C7	2.48	1.40	1.46	13	3
3	A	627	PX4	P1-O4	2.48	1.49	1.59	15	1
3	A	637	PX4	P1-O2	2.48	1.42	1.50	7	3
3	B	302	PX4	P1-O1	2.48	1.43	1.55	6	1
3	A	618	PX4	P1-O3	2.47	1.49	1.59	8	1
3	B	302	PX4	O5-C9	2.47	1.40	1.33	11	1
3	B	307	PX4	C4-N1	2.48	1.57	1.50	9	2
3	C	341	PX4	O7-C23	2.48	1.27	1.34	10	4
3	A	630	PX4	C24-C23	2.47	1.57	1.50	15	1
3	A	637	PX4	C2-N1	2.47	1.59	1.51	8	2
3	B	372	PX4	C24-C23	2.47	1.57	1.50	11	2
3	B	399	PX4	O7-C7	2.47	1.40	1.46	12	2
3	A	623	PX4	C8-C7	2.47	1.58	1.50	15	4
3	A	642	PX4	C24-C23	2.47	1.57	1.50	13	3
3	B	378	PX4	C11-C10	2.47	1.61	1.52	2	3
3	B	389	PX4	O7-C23	2.47	1.27	1.34	14	1
3	C	354	PX4	C11-C10	2.47	1.61	1.52	3	4
3	A	627	PX4	C24-C23	2.47	1.57	1.50	9	1
3	A	610	PX4	C25-C24	2.47	1.61	1.52	11	1
3	B	301	PX4	O5-C9	2.47	1.40	1.33	2	2
3	B	311	PX4	C4-N1	2.47	1.42	1.50	2	4
3	C	304	PX4	P1-O1	2.47	1.43	1.55	7	2
3	B	364	PX4	C31-C30	2.47	1.64	1.51	7	1
3	B	393	PX4	C30-C29	2.47	1.64	1.51	9	1
3	C	302	PX4	O5-C9	2.47	1.40	1.33	10	1
3	C	335	PX4	O7-C23	2.47	1.27	1.34	4	4
3	C	335	PX4	P1-O2	2.47	1.42	1.50	9	1
3	A	607	PX4	C2-C1	2.47	1.58	1.51	12	6
3	B	322	PX4	C11-C10	2.47	1.61	1.52	6	3
3	B	361	PX4	C25-C24	2.47	1.61	1.52	12	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	359	PX4	C26-C25	2.47	1.64	1.51	9	2
3	B	374	PX4	P1-O1	2.46	1.43	1.55	9	1
3	B	379	PX4	C5-N1	2.47	1.57	1.50	10	1
3	B	333	PX4	P1-O3	2.46	1.49	1.59	10	2
3	C	324	PX4	P1-O2	2.46	1.42	1.50	3	2
3	C	341	PX4	P1-O3	2.46	1.49	1.59	14	1
3	C	357	PX4	P1-O2	2.46	1.42	1.50	15	1
3	A	610	PX4	C10-C9	2.46	1.57	1.50	6	4
3	C	347	PX4	P1-O3	2.46	1.49	1.59	1	1
3	C	359	PX4	P1-O1	2.46	1.43	1.55	14	4
3	A	619	PX4	P1-O1	2.46	1.43	1.55	15	1
3	B	330	PX4	P1-O1	2.46	1.43	1.55	9	3
3	A	604	PX4	P1-O2	2.46	1.42	1.50	4	1
3	A	616	PX4	C31-C30	2.46	1.64	1.51	15	1
3	B	305	PX4	C3-N1	2.46	1.57	1.50	10	1
3	B	375	PX4	C2-N1	2.46	1.59	1.51	5	2
3	C	329	PX4	O7-C23	2.46	1.41	1.34	1	1
3	C	332	PX4	P1-O1	2.46	1.44	1.55	15	3
3	A	609	PX4	O3-C1	2.46	1.34	1.44	10	2
3	A	629	PX4	P1-O2	2.46	1.42	1.50	8	1
3	A	631	PX4	C10-C9	2.46	1.57	1.50	6	2
3	A	634	PX4	C3-N1	2.45	1.57	1.50	13	1
3	B	337	PX4	O7-C7	2.45	1.40	1.46	2	2
3	B	349	PX4	O7-C23	2.45	1.27	1.34	15	1
3	B	372	PX4	P1-O4	2.46	1.49	1.59	1	1
3	B	376	PX4	C11-C10	2.45	1.61	1.52	8	2
3	B	389	PX4	C24-C23	2.46	1.57	1.50	3	1
3	C	369	PX4	C24-C23	2.46	1.57	1.50	13	2
3	B	382	PX4	C3-N1	2.45	1.57	1.50	11	1
3	C	325	PX4	O5-C9	2.45	1.40	1.33	3	1
3	C	334	PX4	P1-O4	2.45	1.49	1.59	2	2
3	C	348	PX4	C33-C32	2.45	1.64	1.51	2	1
3	C	355	PX4	O7-C7	2.45	1.40	1.46	14	2
3	B	369	PX4	O7-C7	2.45	1.40	1.46	4	2
3	B	389	PX4	C29-C28	2.45	1.64	1.51	13	1
3	A	645	PX4	C24-C23	2.45	1.57	1.50	7	4
3	B	308	PX4	O5-C8	2.45	1.39	1.45	5	3
3	B	391	PX4	P1-O2	2.45	1.42	1.50	1	1
3	C	305	PX4	C2-N1	2.45	1.58	1.51	4	1
3	C	346	PX4	C4-N1	2.45	1.42	1.50	1	1
3	C	352	PX4	C2-N1	2.45	1.58	1.51	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	304	PX4	C4-N1	2.45	1.57	1.50	7	1
3	B	363	PX4	O5-C9	2.45	1.26	1.33	3	1
3	B	305	PX4	O7-C7	2.45	1.40	1.46	10	5
3	B	345	PX4	O5-C8	2.45	1.50	1.45	2	2
3	A	607	PX4	C5-N1	2.45	1.42	1.50	8	1
3	B	312	PX4	P1-O1	2.45	1.44	1.55	3	3
3	B	330	PX4	O7-C7	2.45	1.40	1.46	2	2
3	B	344	PX4	P1-O4	2.45	1.49	1.59	10	2
3	B	372	PX4	O5-C9	2.45	1.26	1.33	10	1
3	C	363	PX4	P1-O1	2.45	1.44	1.55	2	4
3	A	616	PX4	O5-C9	2.44	1.26	1.33	15	1
3	B	317	PX4	C24-C23	2.44	1.57	1.50	10	2
3	B	331	PX4	C4-N1	2.45	1.57	1.50	11	3
3	B	362	PX4	C11-C10	2.44	1.61	1.52	11	4
3	B	386	PX4	C31-C30	2.44	1.63	1.51	3	1
3	C	319	PX4	C2-C1	2.44	1.58	1.51	13	2
3	C	322	PX4	C4-N1	2.44	1.57	1.50	4	1
3	C	330	PX4	O7-C7	2.45	1.40	1.46	2	3
3	A	614	PX4	C3-N1	2.44	1.57	1.50	9	1
3	B	359	PX4	O7-C7	2.44	1.40	1.46	3	1
3	A	622	PX4	C28-C27	2.44	1.63	1.51	6	2
3	A	625	PX4	O5-C8	2.44	1.50	1.45	4	1
3	C	370	PX4	C4-N1	2.44	1.57	1.50	2	1
3	B	366	PX4	P1-O3	2.44	1.49	1.59	4	1
3	B	381	PX4	C5-N1	2.44	1.57	1.50	4	3
3	C	302	PX4	C2-C1	2.44	1.58	1.51	10	3
3	B	309	PX4	C15-C14	2.44	1.63	1.51	12	1
3	A	634	PX4	C26-C25	2.44	1.63	1.51	4	1
3	B	319	PX4	O7-C23	2.44	1.27	1.34	14	3
3	C	335	PX4	C10-C9	2.44	1.57	1.50	10	1
3	C	350	PX4	O5-C8	2.44	1.39	1.45	10	3
3	B	373	PX4	P1-O1	2.44	1.44	1.55	5	2
3	B	374	PX4	C33-C32	2.44	1.63	1.51	13	1
3	C	355	PX4	C5-N1	2.44	1.42	1.50	1	2
3	B	302	PX4	C14-C13	2.44	1.63	1.51	10	1
3	B	313	PX4	C14-C13	2.44	1.63	1.51	2	1
3	A	604	PX4	C28-C27	2.44	1.63	1.51	13	1
3	B	325	PX4	C16-C15	2.44	1.63	1.51	4	1
3	C	323	PX4	C11-C10	2.44	1.61	1.52	12	3
3	C	333	PX4	C25-C24	2.44	1.61	1.52	13	1
3	C	370	PX4	P1-O1	2.44	1.44	1.55	10	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	365	PX4	C3-N1	2.44	1.57	1.50	9	3
3	C	369	PX4	O7-C7	2.44	1.40	1.46	7	2
3	B	326	PX4	C2-N1	2.43	1.58	1.51	12	3
3	B	337	PX4	C33-C32	2.44	1.63	1.51	15	1
3	B	367	PX4	C29-C28	2.44	1.63	1.51	12	1
3	B	392	PX4	P1-O2	2.44	1.42	1.50	15	1
3	B	362	PX4	O7-C7	2.43	1.40	1.46	15	1
3	C	356	PX4	O7-C7	2.43	1.40	1.46	1	2
3	A	611	PX4	C11-C10	2.43	1.61	1.52	9	2
3	A	634	PX4	C24-C23	2.43	1.57	1.50	5	3
3	A	639	PX4	O7-C7	2.43	1.40	1.46	12	2
3	B	314	PX4	O7-C23	2.43	1.27	1.34	8	1
3	B	354	PX4	O7-C23	2.43	1.27	1.34	15	1
3	B	360	PX4	O7-C7	2.43	1.40	1.46	12	2
3	B	365	PX4	C12-C11	2.43	1.63	1.51	10	1
3	B	386	PX4	C24-C23	2.43	1.57	1.50	12	3
3	B	395	PX4	P1-O3	2.43	1.49	1.59	10	1
3	C	313	PX4	P1-O1	2.43	1.44	1.55	5	7
3	A	610	PX4	P1-O1	2.43	1.44	1.55	5	4
3	A	636	PX4	C26-C25	2.43	1.63	1.51	4	1
3	C	356	PX4	O5-C8	2.43	1.50	1.45	4	2
3	A	620	PX4	C5-N1	2.43	1.43	1.50	14	1
3	B	301	PX4	P1-O1	2.43	1.44	1.55	12	4
3	B	338	PX4	C19-C18	2.43	1.63	1.51	11	1
3	B	351	PX4	C31-C30	2.43	1.63	1.51	6	2
3	B	379	PX4	C17-C16	2.43	1.63	1.51	10	1
3	C	304	PX4	P1-O2	2.43	1.42	1.50	12	1
3	A	625	PX4	O7-C7	2.43	1.40	1.46	4	2
3	C	369	PX4	C3-N1	2.43	1.43	1.50	7	1
3	C	369	PX4	C27-C26	2.43	1.63	1.51	12	1
3	B	323	PX4	O3-C1	2.43	1.35	1.44	9	1
3	B	390	PX4	C24-C23	2.43	1.57	1.50	15	2
3	B	331	PX4	C2-N1	2.42	1.58	1.51	11	3
3	B	388	PX4	C12-C11	2.42	1.63	1.51	8	1
3	B	390	PX4	C32-C31	2.42	1.63	1.51	13	1
3	B	400	PX4	P1-O1	2.42	1.44	1.55	14	3
3	B	320	PX4	C3-N1	2.42	1.57	1.50	10	2
3	B	329	PX4	C25-C24	2.42	1.61	1.52	1	1
3	B	377	PX4	C11-C10	2.42	1.61	1.52	6	3
3	B	387	PX4	C16-C15	2.42	1.63	1.51	15	1
3	B	394	PX4	P1-O1	2.42	1.44	1.55	9	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	337	PX4	C2-C1	2.42	1.58	1.51	12	3
3	C	348	PX4	C5-N1	2.42	1.43	1.50	11	1
3	B	306	PX4	C2-N1	2.42	1.58	1.51	7	1
3	B	313	PX4	C2-C1	2.42	1.58	1.51	1	4
3	B	321	PX4	C25-C24	2.42	1.61	1.52	4	1
3	C	311	PX4	C25-C24	2.42	1.61	1.52	7	2
3	C	358	PX4	C26-C25	2.42	1.63	1.51	8	1
3	C	319	PX4	C33-C32	2.42	1.63	1.51	10	1
3	A	623	PX4	P1-O1	2.42	1.44	1.55	8	2
3	B	302	PX4	P1-O2	2.42	1.42	1.50	7	1
3	C	327	PX4	C11-C10	2.42	1.61	1.52	15	2
3	B	315	PX4	O5-C9	2.42	1.26	1.33	2	2
3	B	319	PX4	C20-C19	2.42	1.63	1.51	1	1
3	B	351	PX4	O7-C23	2.42	1.27	1.34	5	2
3	B	371	PX4	C20-C19	2.42	1.63	1.51	9	1
3	B	382	PX4	O5-C8	2.42	1.50	1.45	14	2
3	C	337	PX4	C24-C23	2.42	1.57	1.50	1	2
3	C	366	PX4	C16-C15	2.42	1.63	1.51	12	1
3	B	327	PX4	O5-C9	2.42	1.40	1.33	7	1
3	C	370	PX4	C11-C10	2.42	1.61	1.52	3	2
3	B	348	PX4	O5-C9	2.42	1.40	1.33	5	1
3	B	340	PX4	C5-N1	2.41	1.57	1.50	5	2
3	B	353	PX4	O5-C8	2.42	1.39	1.45	15	2
3	C	361	PX4	O7-C7	2.42	1.40	1.46	11	2
3	B	376	PX4	C5-N1	2.41	1.57	1.50	1	2
3	B	306	PX4	C25-C24	2.41	1.61	1.52	2	1
3	B	368	PX4	C24-C23	2.41	1.57	1.50	6	2
3	B	369	PX4	C30-C29	2.41	1.63	1.51	12	1
3	B	372	PX4	O4-C6	2.41	1.53	1.44	10	1
3	B	373	PX4	O7-C23	2.41	1.27	1.34	6	3
3	B	379	PX4	P1-O1	2.41	1.44	1.55	11	2
3	C	337	PX4	P1-O1	2.41	1.44	1.55	8	5
3	C	344	PX4	P1-O1	2.41	1.44	1.55	14	2
3	A	632	PX4	O7-C23	2.41	1.27	1.34	13	1
3	B	306	PX4	P1-O1	2.41	1.44	1.55	10	2
3	C	308	PX4	C3-N1	2.41	1.43	1.50	9	2
3	C	344	PX4	C13-C12	2.41	1.63	1.51	10	1
3	C	363	PX4	O5-C8	2.41	1.50	1.45	7	1
3	B	346	PX4	O7-C23	2.41	1.27	1.34	5	2
3	B	349	PX4	P1-O3	2.41	1.50	1.59	7	2
3	B	366	PX4	C26-C25	2.41	1.63	1.51	1	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	377	PX4	C19-C18	2.41	1.63	1.51	7	1
3	B	382	PX4	C4-N1	2.41	1.57	1.50	4	3
3	C	344	PX4	C4-N1	2.41	1.43	1.50	8	1
3	B	355	PX4	C11-C10	2.41	1.61	1.52	10	2
3	A	626	PX4	C33-C32	2.41	1.63	1.51	14	1
3	A	627	PX4	P1-O1	2.41	1.44	1.55	10	2
3	A	634	PX4	P1-O4	2.41	1.50	1.59	10	1
3	B	335	PX4	C2-N1	2.41	1.58	1.51	4	1
3	C	315	PX4	C2-N1	2.41	1.58	1.51	12	2
3	C	346	PX4	C25-C24	2.41	1.61	1.52	10	2
3	B	319	PX4	C25-C24	2.41	1.61	1.52	6	2
3	B	368	PX4	P1-O2	2.41	1.42	1.50	8	1
3	C	310	PX4	P1-O2	2.41	1.42	1.50	1	2
3	C	334	PX4	C25-C24	2.41	1.61	1.52	1	2
3	B	340	PX4	P1-O2	2.41	1.42	1.50	15	2
3	C	365	PX4	C10-C9	2.41	1.57	1.50	15	2
3	A	625	PX4	P1-O1	2.40	1.44	1.55	3	5
3	A	643	PX4	P1-O1	2.40	1.44	1.55	10	3
3	B	332	PX4	C32-C31	2.40	1.63	1.51	14	1
3	B	365	PX4	P1-O1	2.40	1.44	1.55	14	2
3	B	385	PX4	O7-C23	2.40	1.41	1.34	2	2
3	C	352	PX4	P1-O3	2.40	1.50	1.59	14	2
3	A	622	PX4	O5-C9	2.40	1.26	1.33	3	1
3	A	632	PX4	C28-C27	2.40	1.63	1.51	14	1
3	A	637	PX4	C11-C10	2.40	1.61	1.52	6	1
3	B	347	PX4	O7-C7	2.40	1.41	1.46	12	2
3	B	391	PX4	C3-N1	2.40	1.57	1.50	8	2
3	C	354	PX4	C24-C23	2.40	1.57	1.50	8	1
3	C	354	PX4	C4-N1	2.40	1.57	1.50	10	1
3	B	347	PX4	C18-C17	2.40	1.63	1.51	10	1
3	B	373	PX4	C4-N1	2.40	1.43	1.50	4	2
3	B	347	PX4	O7-C23	2.40	1.27	1.34	12	3
3	B	353	PX4	C10-C9	2.40	1.57	1.50	7	3
3	C	316	PX4	P1-O1	2.40	1.44	1.55	13	1
3	C	314	PX4	O4-C6	2.40	1.35	1.44	9	1
3	C	333	PX4	P1-O2	2.40	1.42	1.50	7	1
3	C	301	PX4	C11-C10	2.40	1.61	1.52	9	2
3	C	321	PX4	C11-C10	2.40	1.61	1.52	4	2
3	C	351	PX4	C3-N1	2.40	1.43	1.50	4	1
3	C	305	PX4	C6-C7	2.40	1.58	1.50	8	4
3	C	351	PX4	C2-N1	2.40	1.58	1.51	13	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	633	PX4	C2-N1	2.40	1.44	1.51	1	1
3	B	360	PX4	C5-N1	2.40	1.57	1.50	3	3
3	B	335	PX4	P1-O1	2.40	1.44	1.55	15	4
3	B	337	PX4	C5-N1	2.40	1.57	1.50	12	1
3	B	338	PX4	C32-C31	2.39	1.63	1.51	12	1
3	B	340	PX4	O7-C7	2.39	1.41	1.46	10	2
3	B	378	PX4	C4-N1	2.40	1.57	1.50	7	1
3	A	619	PX4	C18-C17	2.39	1.63	1.51	9	1
3	A	635	PX4	O7-C23	2.39	1.27	1.34	4	3
3	B	373	PX4	C12-C11	2.39	1.63	1.51	7	1
3	A	617	PX4	O5-C8	2.39	1.39	1.45	11	1
3	A	636	PX4	C2-N1	2.39	1.58	1.51	1	1
3	B	327	PX4	C11-C10	2.39	1.60	1.52	10	3
3	B	331	PX4	O4-C6	2.39	1.35	1.44	10	1
3	C	360	PX4	C25-C24	2.39	1.61	1.52	14	2
3	B	322	PX4	O7-C7	2.39	1.41	1.46	8	2
3	B	329	PX4	O7-C23	2.39	1.27	1.34	8	1
3	B	333	PX4	C25-C24	2.39	1.60	1.52	8	3
3	B	341	PX4	P1-O3	2.39	1.50	1.59	7	1
3	B	346	PX4	C2-C1	2.39	1.58	1.51	1	3
3	B	365	PX4	C28-C27	2.39	1.63	1.51	2	1
3	C	303	PX4	C2-N1	2.39	1.44	1.51	7	1
3	A	610	PX4	O7-C23	2.39	1.41	1.34	1	3
3	A	620	PX4	P1-O3	2.39	1.50	1.59	5	1
3	A	630	PX4	P1-O4	2.39	1.50	1.59	12	3
3	B	301	PX4	P1-O3	2.39	1.50	1.59	2	1
3	B	322	PX4	C29-C28	2.39	1.63	1.51	10	1
3	C	312	PX4	C18-C17	2.39	1.63	1.51	10	1
3	A	616	PX4	O5-C8	2.38	1.50	1.45	6	4
3	A	626	PX4	O5-C9	2.38	1.26	1.33	13	2
3	C	313	PX4	C2-C1	2.39	1.58	1.51	6	2
3	B	320	PX4	P1-O3	2.38	1.68	1.59	13	1
3	B	322	PX4	P1-O1	2.38	1.44	1.55	8	2
3	B	367	PX4	C18-C17	2.38	1.63	1.51	5	1
3	C	360	PX4	P1-O1	2.38	1.44	1.55	3	2
3	B	308	PX4	C3-N1	2.38	1.56	1.50	14	3
3	A	604	PX4	C15-C14	2.38	1.63	1.51	3	1
3	A	614	PX4	O5-C8	2.38	1.39	1.45	10	1
3	B	370	PX4	C16-C15	2.38	1.63	1.51	11	1
3	B	346	PX4	C11-C10	2.38	1.60	1.52	15	1
3	B	368	PX4	O4-C6	2.38	1.53	1.44	1	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	395	PX4	C32-C31	2.38	1.63	1.51	13	1
3	C	319	PX4	P1-O4	2.38	1.50	1.59	11	2
3	A	601	PX4	O5-C8	2.38	1.39	1.45	12	2
3	A	643	PX4	C25-C24	2.38	1.60	1.52	1	1
3	B	345	PX4	C13-C12	2.38	1.63	1.51	5	1
3	A	628	PX4	C20-C19	2.38	1.63	1.51	8	1
3	A	640	PX4	C25-C24	2.38	1.60	1.52	6	1
3	B	387	PX4	C29-C28	2.38	1.63	1.51	15	1
3	C	310	PX4	O7-C23	2.38	1.27	1.34	10	2
3	C	313	PX4	O7-C23	2.38	1.27	1.34	13	2
3	C	364	PX4	O7-C23	2.38	1.27	1.34	8	2
3	A	630	PX4	C2-N1	2.38	1.44	1.51	2	2
3	B	381	PX4	O5-C9	2.38	1.40	1.33	3	1
3	B	384	PX4	C10-C9	2.38	1.57	1.50	2	2
3	C	329	PX4	C2-N1	2.38	1.58	1.51	10	2
3	C	350	PX4	P1-O1	2.38	1.44	1.55	14	2
3	B	352	PX4	C27-C26	2.37	1.63	1.51	4	1
3	B	356	PX4	O5-C8	2.38	1.39	1.45	10	3
3	B	317	PX4	C16-C15	2.37	1.63	1.51	3	1
3	B	327	PX4	C10-C9	2.37	1.57	1.50	6	2
3	C	342	PX4	P1-O2	2.37	1.42	1.50	1	2
3	C	358	PX4	O5-C9	2.37	1.26	1.33	4	1
3	A	609	PX4	C20-C19	2.37	1.63	1.51	10	1
3	A	629	PX4	P1-O4	2.37	1.68	1.59	12	1
3	A	646	PX4	C2-N1	2.37	1.58	1.51	6	1
3	B	304	PX4	C2-N1	2.37	1.58	1.51	12	1
3	C	353	PX4	C16-C15	2.37	1.63	1.51	8	2
3	B	343	PX4	C12-C11	2.37	1.63	1.51	12	1
3	C	338	PX4	O7-C7	2.37	1.52	1.46	6	2
3	B	319	PX4	C12-C11	2.37	1.63	1.51	3	1
3	B	332	PX4	O5-C8	2.37	1.39	1.45	2	1
3	B	366	PX4	C4-N1	2.37	1.56	1.50	13	1
3	B	368	PX4	O7-C23	2.37	1.27	1.34	12	2
3	B	369	PX4	C3-N1	2.37	1.43	1.50	12	2
3	B	396	PX4	C3-N1	2.37	1.56	1.50	1	2
3	C	302	PX4	P1-O2	2.37	1.42	1.50	11	1
3	C	311	PX4	O7-C7	2.37	1.41	1.46	2	1
3	C	318	PX4	O5-C9	2.37	1.40	1.33	1	2
3	B	333	PX4	O7-C23	2.37	1.27	1.34	15	1
3	B	319	PX4	P1-O1	2.37	1.44	1.55	14	4
3	B	339	PX4	C5-N1	2.37	1.56	1.50	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	322	PX4	C3-N1	2.37	1.43	1.50	5	1
3	B	328	PX4	C4-N1	2.37	1.43	1.50	7	1
3	B	347	PX4	O5-C8	2.37	1.39	1.45	7	1
3	B	370	PX4	C29-C28	2.36	1.63	1.51	2	1
3	C	312	PX4	C2-N1	2.37	1.58	1.51	9	3
3	C	336	PX4	O7-C7	2.37	1.41	1.46	1	4
3	C	346	PX4	P1-O4	2.37	1.68	1.59	6	1
3	A	608	PX4	C11-C10	2.36	1.60	1.52	5	2
3	B	378	PX4	O5-C8	2.36	1.39	1.45	9	1
3	C	332	PX4	C10-C9	2.36	1.57	1.50	14	4
3	A	605	PX4	C24-C23	2.36	1.57	1.50	10	1
3	A	645	PX4	C25-C24	2.36	1.60	1.52	8	1
3	B	305	PX4	C10-C9	2.36	1.57	1.50	10	3
3	B	374	PX4	C30-C29	2.36	1.63	1.51	13	1
3	B	398	PX4	C18-C17	2.36	1.63	1.51	8	1
3	C	347	PX4	C3-N1	2.36	1.56	1.50	8	1
3	B	343	PX4	C2-N1	2.36	1.44	1.51	2	1
3	C	317	PX4	C11-C10	2.36	1.60	1.52	2	3
3	A	643	PX4	P1-O3	2.36	1.50	1.59	13	1
3	B	318	PX4	C15-C14	2.36	1.63	1.51	14	1
3	B	337	PX4	O4-C6	2.36	1.35	1.44	11	1
3	B	353	PX4	C5-N1	2.36	1.56	1.50	2	2
3	C	341	PX4	P1-O4	2.36	1.50	1.59	12	1
3	C	342	PX4	P1-O1	2.36	1.44	1.55	14	4
3	B	334	PX4	O7-C23	2.36	1.27	1.34	2	1
3	B	356	PX4	O3-C1	2.36	1.54	1.44	2	1
3	C	316	PX4	C2-N1	2.36	1.58	1.51	3	1
3	C	309	PX4	C5-N1	2.36	1.56	1.50	3	1
3	C	353	PX4	C4-N1	2.36	1.43	1.50	7	3
3	A	620	PX4	P1-O1	2.36	1.44	1.55	1	2
3	A	637	PX4	C25-C24	2.36	1.60	1.52	5	1
3	A	646	PX4	O7-C7	2.36	1.41	1.46	6	1
3	B	376	PX4	P1-O1	2.36	1.44	1.55	5	2
3	B	394	PX4	C18-C17	2.35	1.63	1.51	12	1
3	B	400	PX4	C16-C15	2.36	1.63	1.51	13	1
3	C	305	PX4	C11-C10	2.36	1.60	1.52	10	3
3	C	314	PX4	C28-C27	2.36	1.63	1.51	9	1
3	C	324	PX4	C25-C24	2.36	1.60	1.52	13	1
3	A	635	PX4	C24-C23	2.35	1.57	1.50	12	1
3	A	637	PX4	P1-O1	2.35	1.44	1.55	7	6
3	A	615	PX4	C28-C27	2.35	1.63	1.51	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	628	PX4	C25-C24	2.35	1.60	1.52	10	1
3	A	638	PX4	P1-O1	2.35	1.44	1.55	13	5
3	B	345	PX4	C25-C24	2.35	1.60	1.52	4	3
3	B	354	PX4	O5-C9	2.35	1.26	1.33	8	1
3	C	360	PX4	P1-O2	2.35	1.42	1.50	2	1
3	B	367	PX4	C13-C12	2.35	1.63	1.51	12	1
3	B	378	PX4	C17-C16	2.35	1.63	1.51	13	3
3	B	368	PX4	C25-C24	2.35	1.60	1.52	9	1
3	C	308	PX4	P1-O1	2.35	1.44	1.55	10	3
3	C	338	PX4	O5-C9	2.35	1.40	1.33	1	1
3	A	631	PX4	C13-C12	2.35	1.63	1.51	15	1
3	B	363	PX4	C25-C24	2.35	1.60	1.52	2	1
3	B	383	PX4	C10-C9	2.35	1.57	1.50	5	1
3	A	602	PX4	C30-C29	2.35	1.63	1.51	2	1
3	A	626	PX4	C12-C11	2.35	1.63	1.51	5	1
3	B	329	PX4	C18-C17	2.35	1.63	1.51	12	1
3	B	352	PX4	P1-O3	2.35	1.50	1.59	15	1
3	B	370	PX4	C10-C9	2.35	1.57	1.50	13	1
3	C	310	PX4	P1-O1	2.35	1.44	1.55	4	3
3	B	363	PX4	C33-C32	2.35	1.63	1.51	2	2
3	C	340	PX4	O7-C7	2.35	1.41	1.46	3	1
3	A	647	PX4	C35-C34	2.35	1.66	1.51	1	1
3	B	396	PX4	C30-C29	2.35	1.63	1.51	8	1
3	C	365	PX4	P1-O1	2.35	1.44	1.55	6	2
3	B	383	PX4	O5-C8	2.35	1.39	1.45	3	2
3	C	318	PX4	C4-N1	2.34	1.43	1.50	9	2
3	C	319	PX4	C25-C24	2.35	1.60	1.52	14	1
3	B	362	PX4	P1-O2	2.34	1.42	1.50	14	1
3	C	307	PX4	C27-C26	2.34	1.63	1.51	10	1
3	C	333	PX4	C19-C18	2.34	1.63	1.51	14	1
3	C	335	PX4	P1-O1	2.34	1.44	1.55	10	3
3	C	361	PX4	C24-C23	2.34	1.57	1.50	2	1
3	C	361	PX4	O5-C8	2.35	1.39	1.45	14	2
3	A	605	PX4	C33-C32	2.34	1.63	1.51	9	1
3	B	309	PX4	C25-C24	2.34	1.60	1.52	15	1
3	B	315	PX4	C5-N1	2.34	1.43	1.50	10	2
3	B	353	PX4	P1-O1	2.34	1.44	1.55	6	3
3	B	398	PX4	O7-C23	2.34	1.27	1.34	1	3
3	C	323	PX4	P1-O1	2.34	1.44	1.55	9	2
3	C	362	PX4	P1-O1	2.34	1.44	1.55	2	2
3	C	363	PX4	C5-N1	2.34	1.43	1.50	10	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	603	PX4	P1-O3	2.34	1.50	1.59	9	1
3	A	607	PX4	P1-O1	2.34	1.44	1.55	3	4
3	A	625	PX4	C10-C9	2.34	1.57	1.50	6	3
3	B	318	PX4	P1-O1	2.34	1.44	1.55	5	2
3	B	348	PX4	C16-C15	2.34	1.63	1.51	12	1
3	B	366	PX4	C16-C15	2.34	1.63	1.51	7	1
3	B	372	PX4	C15-C14	2.34	1.63	1.51	10	1
3	B	316	PX4	P1-O1	2.34	1.44	1.55	3	3
3	B	346	PX4	C13-C12	2.34	1.63	1.51	13	1
3	B	340	PX4	C4-N1	2.34	1.43	1.50	5	1
3	C	308	PX4	C13-C12	2.34	1.63	1.51	7	1
3	C	309	PX4	C10-C9	2.34	1.57	1.50	2	2
3	C	313	PX4	P1-O2	2.34	1.42	1.50	8	2
3	C	335	PX4	C2-N1	2.34	1.58	1.51	6	3
3	C	348	PX4	C11-C10	2.34	1.60	1.52	14	1
3	C	355	PX4	C6-C7	2.34	1.58	1.50	4	2
3	A	604	PX4	C5-N1	2.34	1.43	1.50	2	1
3	A	606	PX4	C4-N1	2.34	1.43	1.50	13	1
3	B	311	PX4	C11-C10	2.34	1.60	1.52	3	2
3	B	313	PX4	O5-C8	2.34	1.50	1.45	15	1
3	B	315	PX4	C17-C16	2.34	1.63	1.51	6	1
3	B	328	PX4	P1-O1	2.34	1.44	1.55	14	3
3	B	332	PX4	P1-O1	2.34	1.44	1.55	12	1
3	B	393	PX4	C5-N1	2.34	1.56	1.50	13	2
3	C	319	PX4	C2-N1	2.34	1.58	1.51	4	1
3	C	354	PX4	C2-N1	2.34	1.58	1.51	12	2
3	C	363	PX4	C3-N1	2.34	1.56	1.50	7	3
3	B	384	PX4	P1-O4	2.34	1.68	1.59	3	1
3	B	386	PX4	C27-C26	2.34	1.63	1.51	15	1
3	A	634	PX4	O5-C9	2.33	1.26	1.33	7	1
3	B	398	PX4	C15-C14	2.33	1.63	1.51	1	1
3	C	316	PX4	C25-C24	2.33	1.60	1.52	9	1
3	C	322	PX4	C5-N1	2.34	1.56	1.50	13	2
3	B	309	PX4	C31-C30	2.33	1.63	1.51	8	1
3	B	328	PX4	O4-C6	2.33	1.35	1.44	15	1
3	A	636	PX4	C20-C19	2.33	1.63	1.51	6	1
3	A	616	PX4	C17-C16	2.33	1.63	1.51	13	1
3	B	334	PX4	O5-C8	2.33	1.50	1.45	5	1
3	B	355	PX4	P1-O2	2.33	1.42	1.50	9	2
3	B	367	PX4	C5-N1	2.33	1.56	1.50	8	2
3	C	306	PX4	P1-O3	2.33	1.50	1.59	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	338	PX4	C17-C16	2.33	1.63	1.51	7	1
3	A	611	PX4	C2-N1	2.33	1.58	1.51	9	1
3	B	309	PX4	P1-O1	2.33	1.44	1.55	14	3
3	C	310	PX4	O5-C9	2.33	1.26	1.33	9	2
3	C	311	PX4	C26-C25	2.33	1.63	1.51	6	1
3	C	351	PX4	C11-C10	2.33	1.60	1.52	6	2
3	B	313	PX4	C18-C17	2.33	1.63	1.51	4	1
3	C	327	PX4	O7-C7	2.33	1.41	1.46	5	1
3	C	360	PX4	C3-N1	2.33	1.56	1.50	8	2
3	B	304	PX4	P1-O1	2.33	1.44	1.55	15	3
3	B	325	PX4	C31-C30	2.33	1.63	1.51	7	1
3	B	333	PX4	P1-O1	2.33	1.44	1.55	6	2
3	B	356	PX4	C3-N1	2.33	1.56	1.50	13	1
3	B	336	PX4	C30-C29	2.33	1.63	1.51	11	1
3	C	306	PX4	O7-C23	2.33	1.27	1.34	4	2
3	A	625	PX4	C30-C29	2.33	1.63	1.51	9	2
3	A	639	PX4	C11-C10	2.33	1.60	1.52	9	1
3	A	648	PX4	O5-C9	2.33	1.26	1.33	15	2
3	B	363	PX4	C11-C10	2.33	1.60	1.52	8	1
3	B	371	PX4	C4-N1	2.33	1.43	1.50	1	2
3	B	386	PX4	P1-O3	2.33	1.68	1.59	5	1
3	C	355	PX4	C25-C24	2.33	1.60	1.52	5	1
3	A	613	PX4	P1-O1	2.32	1.44	1.55	15	4
3	A	646	PX4	O5-C9	2.32	1.26	1.33	4	2
3	B	321	PX4	C31-C30	2.33	1.63	1.51	1	1
3	B	371	PX4	C2-N1	2.32	1.44	1.51	1	1
3	B	395	PX4	P1-O1	2.33	1.44	1.55	6	3
3	C	369	PX4	C31-C30	2.32	1.63	1.51	7	1
3	A	646	PX4	C17-C16	2.32	1.63	1.51	14	1
3	B	314	PX4	C24-C23	2.32	1.57	1.50	8	2
3	B	370	PX4	P1-O1	2.32	1.44	1.55	3	2
3	C	307	PX4	O5-C8	2.32	1.40	1.45	12	1
3	A	604	PX4	C33-C32	2.32	1.63	1.51	7	1
3	A	618	PX4	C25-C24	2.32	1.60	1.52	15	1
3	A	647	PX4	P1-O1	2.32	1.44	1.55	1	4
3	B	392	PX4	C10-C9	2.32	1.57	1.50	15	3
3	B	393	PX4	C8-C7	2.32	1.58	1.50	3	3
3	C	333	PX4	C3-N1	2.32	1.43	1.50	13	2
3	C	344	PX4	C12-C11	2.32	1.63	1.51	8	1
3	C	363	PX4	C15-C14	2.32	1.63	1.51	11	1
3	B	349	PX4	C20-C19	2.32	1.63	1.51	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	383	PX4	C5-N1	2.32	1.43	1.50	2	1
3	C	309	PX4	C2-C1	2.32	1.58	1.51	6	4
3	A	629	PX4	C16-C15	2.32	1.63	1.51	8	1
3	C	325	PX4	C32-C31	2.32	1.63	1.51	13	1
3	B	377	PX4	C25-C24	2.32	1.60	1.52	1	1
3	B	390	PX4	C4-N1	2.32	1.56	1.50	11	1
3	C	315	PX4	P1-O4	2.32	1.50	1.59	13	1
3	C	328	PX4	C25-C24	2.32	1.60	1.52	5	2
3	C	368	PX4	C5-N1	2.32	1.56	1.50	3	1
3	A	605	PX4	P1-O4	2.32	1.50	1.59	10	1
3	B	310	PX4	O4-C6	2.32	1.35	1.44	5	1
3	A	607	PX4	P1-O2	2.32	1.42	1.50	3	2
3	A	616	PX4	P1-O1	2.32	1.44	1.55	5	2
3	A	636	PX4	C4-N1	2.32	1.56	1.50	13	1
3	A	614	PX4	C2-N1	2.31	1.58	1.51	11	1
3	A	643	PX4	C32-C31	2.32	1.63	1.51	3	1
3	B	344	PX4	C5-N1	2.32	1.56	1.50	10	2
3	C	340	PX4	O7-C23	2.32	1.27	1.34	3	2
3	C	317	PX4	O7-C23	2.31	1.27	1.34	8	1
3	C	323	PX4	C31-C30	2.32	1.63	1.51	3	1
3	A	608	PX4	C12-C11	2.31	1.63	1.51	9	1
3	A	618	PX4	C24-C23	2.31	1.57	1.50	4	3
3	B	309	PX4	C16-C15	2.31	1.63	1.51	14	1
3	C	337	PX4	C5-N1	2.31	1.43	1.50	8	2
3	C	357	PX4	C2-N1	2.31	1.58	1.51	8	1
3	B	310	PX4	O5-C9	2.31	1.40	1.33	9	3
3	A	620	PX4	C25-C24	2.31	1.60	1.52	10	2
3	B	312	PX4	P1-O3	2.31	1.68	1.59	3	2
3	B	321	PX4	C34-C33	2.31	1.63	1.51	6	1
3	B	326	PX4	C24-C23	2.31	1.57	1.50	10	1
3	B	305	PX4	C5-N1	2.31	1.43	1.50	4	1
3	B	375	PX4	C5-N1	2.31	1.43	1.50	7	1
3	B	318	PX4	C32-C31	2.31	1.63	1.51	11	1
3	B	339	PX4	C32-C31	2.31	1.63	1.51	9	1
3	B	357	PX4	C19-C18	2.31	1.63	1.51	8	1
3	B	395	PX4	P1-O2	2.31	1.42	1.50	13	2
3	A	639	PX4	C14-C13	2.31	1.63	1.51	7	1
3	A	624	PX4	C25-C24	2.31	1.60	1.52	12	2
3	A	628	PX4	C19-C18	2.31	1.63	1.51	9	1
3	C	312	PX4	P1-O2	2.31	1.42	1.50	5	1
3	B	368	PX4	P1-O1	2.31	1.44	1.55	13	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	384	PX4	C11-C10	2.31	1.60	1.52	3	2
3	C	347	PX4	C11-C10	2.31	1.60	1.52	4	2
3	C	366	PX4	O6-C9	2.31	1.29	1.22	2	1
3	A	615	PX4	P1-O1	2.31	1.44	1.55	12	4
3	A	612	PX4	C25-C24	2.30	1.60	1.52	6	2
3	B	324	PX4	C34-C33	2.31	1.63	1.51	3	1
3	B	341	PX4	O4-C6	2.31	1.35	1.44	11	1
3	B	377	PX4	O3-C1	2.31	1.35	1.44	4	1
3	B	387	PX4	C2-C1	2.31	1.58	1.51	15	2
3	B	355	PX4	C2-N1	2.31	1.44	1.51	13	2
3	B	362	PX4	C17-C16	2.31	1.63	1.51	14	1
3	B	383	PX4	C24-C23	2.31	1.57	1.50	1	3
3	B	385	PX4	C25-C24	2.31	1.60	1.52	4	2
3	C	314	PX4	P1-O1	2.31	1.44	1.55	8	4
3	C	324	PX4	C24-C23	2.31	1.57	1.50	9	2
3	C	341	PX4	C2-N1	2.31	1.58	1.51	8	2
3	B	366	PX4	C5-N1	2.30	1.43	1.50	11	2
3	B	393	PX4	C2-N1	2.30	1.58	1.51	15	1
3	C	318	PX4	C24-C23	2.30	1.57	1.50	12	2
3	A	618	PX4	C11-C10	2.30	1.60	1.52	10	4
3	C	352	PX4	C3-N1	2.30	1.56	1.50	6	2
3	B	380	PX4	P1-O2	2.30	1.42	1.50	6	2
3	C	346	PX4	C3-N1	2.30	1.43	1.50	8	2
3	C	365	PX4	O7-C23	2.30	1.27	1.34	12	1
3	A	603	PX4	C13-C12	2.30	1.63	1.51	1	1
3	A	608	PX4	C27-C26	2.30	1.63	1.51	9	1
3	A	644	PX4	C2-N1	2.30	1.58	1.51	3	2
3	B	370	PX4	O5-C9	2.30	1.40	1.33	15	1
3	B	376	PX4	C24-C23	2.30	1.57	1.50	10	3
3	A	609	PX4	C24-C23	2.30	1.57	1.50	10	2
3	B	358	PX4	C14-C13	2.30	1.63	1.51	14	2
3	C	321	PX4	C27-C26	2.30	1.63	1.51	5	1
3	B	379	PX4	O5-C8	2.30	1.40	1.45	13	1
3	A	609	PX4	P1-O1	2.30	1.44	1.55	1	2
3	A	618	PX4	P1-O1	2.30	1.44	1.55	3	1
3	B	386	PX4	C29-C28	2.30	1.63	1.51	1	1
3	B	395	PX4	C12-C11	2.30	1.63	1.51	5	1
3	C	303	PX4	C15-C14	2.30	1.63	1.51	9	1
3	C	365	PX4	C28-C27	2.30	1.63	1.51	11	1
3	A	610	PX4	C24-C23	2.30	1.57	1.50	7	1
3	A	621	PX4	C25-C24	2.30	1.60	1.52	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	646	PX4	C10-C9	2.30	1.57	1.50	6	3
3	B	305	PX4	C30-C29	2.30	1.63	1.51	14	1
3	A	616	PX4	O3-C1	2.30	1.53	1.44	11	1
3	B	309	PX4	C10-C9	2.30	1.57	1.50	1	5
3	B	322	PX4	C2-N1	2.30	1.58	1.51	8	3
3	B	340	PX4	C13-C12	2.30	1.63	1.51	2	1
3	A	622	PX4	P1-O3	2.29	1.50	1.59	15	1
3	A	623	PX4	C6-C7	2.29	1.58	1.50	4	5
3	B	331	PX4	C25-C24	2.29	1.60	1.52	10	2
3	B	346	PX4	O5-C8	2.30	1.50	1.45	15	2
3	C	362	PX4	O3-C1	2.30	1.35	1.44	10	1
3	B	395	PX4	C3-N1	2.30	1.43	1.50	13	3
3	B	386	PX4	O7-C23	2.29	1.27	1.34	1	2
3	C	366	PX4	C33-C32	2.30	1.63	1.51	10	1
3	A	648	PX4	O5-C8	2.29	1.50	1.45	6	3
3	B	301	PX4	C32-C31	2.29	1.63	1.51	11	1
3	B	335	PX4	C5-N1	2.29	1.43	1.50	8	3
3	C	333	PX4	O7-C23	2.29	1.27	1.34	10	4
3	B	397	PX4	C31-C30	2.29	1.63	1.51	12	1
3	A	604	PX4	P1-O3	2.29	1.50	1.59	7	1
3	B	333	PX4	C17-C16	2.29	1.63	1.51	9	1
3	B	340	PX4	C2-N1	2.29	1.44	1.51	8	4
3	B	342	PX4	C2-N1	2.29	1.58	1.51	10	2
3	C	315	PX4	C11-C10	2.29	1.60	1.52	10	1
3	C	336	PX4	C32-C31	2.29	1.63	1.51	5	1
3	C	366	PX4	P1-O1	2.29	1.44	1.55	10	1
3	B	375	PX4	C3-N1	2.29	1.56	1.50	5	1
3	B	399	PX4	P1-O1	2.29	1.44	1.55	1	2
3	C	303	PX4	C18-C17	2.29	1.63	1.51	5	1
3	C	303	PX4	C32-C31	2.29	1.63	1.51	15	1
3	C	367	PX4	O5-C9	2.29	1.40	1.33	3	1
3	C	370	PX4	C3-N1	2.29	1.43	1.50	15	1
3	A	603	PX4	C33-C32	2.29	1.63	1.51	14	1
3	B	351	PX4	C25-C24	2.29	1.60	1.52	11	1
3	B	373	PX4	O7-C7	2.28	1.41	1.46	4	2
3	B	385	PX4	C31-C30	2.29	1.63	1.51	12	1
3	C	334	PX4	C33-C32	2.29	1.63	1.51	15	1
3	C	345	PX4	O3-C1	2.29	1.35	1.44	15	3
3	B	346	PX4	P1-O1	2.28	1.44	1.55	11	2
3	B	371	PX4	P1-O2	2.28	1.42	1.50	3	1
3	B	377	PX4	O5-C8	2.28	1.50	1.45	1	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	320	PX4	O7-C7	2.28	1.41	1.46	8	1
3	C	330	PX4	C3-N1	2.28	1.43	1.50	6	2
3	C	351	PX4	O7-C23	2.28	1.27	1.34	7	1
3	B	339	PX4	P1-O3	2.28	1.50	1.59	8	1
3	A	602	PX4	P1-O3	2.28	1.50	1.59	4	1
3	A	645	PX4	C11-C10	2.28	1.60	1.52	13	3
3	B	393	PX4	O5-C9	2.28	1.26	1.33	13	1
3	C	326	PX4	P1-O2	2.28	1.42	1.50	6	1
3	A	628	PX4	C13-C12	2.28	1.63	1.51	14	1
3	A	608	PX4	P1-O2	2.28	1.42	1.50	12	1
3	B	314	PX4	C32-C31	2.28	1.63	1.51	5	1
3	B	324	PX4	C25-C24	2.28	1.60	1.52	1	2
3	B	368	PX4	C15-C14	2.28	1.63	1.51	10	1
3	B	383	PX4	C11-C10	2.28	1.60	1.52	9	2
3	C	327	PX4	C26-C25	2.28	1.63	1.51	14	1
3	B	356	PX4	P1-O2	2.28	1.42	1.50	10	1
3	C	308	PX4	P1-O2	2.28	1.42	1.50	15	1
3	C	331	PX4	P1-O4	2.28	1.50	1.59	11	1
3	B	368	PX4	O5-C8	2.28	1.50	1.45	5	2
3	C	333	PX4	P1-O1	2.28	1.44	1.55	4	3
3	A	629	PX4	C2-C1	2.28	1.58	1.51	7	2
3	B	393	PX4	C4-N1	2.28	1.56	1.50	4	1
3	B	364	PX4	O4-C6	2.28	1.36	1.44	15	1
3	C	308	PX4	C25-C24	2.28	1.60	1.52	8	3
3	C	342	PX4	C3-N1	2.28	1.43	1.50	1	3
3	C	362	PX4	C5-N1	2.28	1.56	1.50	15	2
3	A	631	PX4	C28-C27	2.27	1.63	1.51	8	2
3	B	311	PX4	C30-C29	2.28	1.63	1.51	14	1
3	B	360	PX4	O5-C8	2.28	1.50	1.45	10	2
3	B	377	PX4	P1-O4	2.27	1.68	1.59	12	1
3	B	391	PX4	C16-C15	2.27	1.63	1.51	10	1
3	C	315	PX4	C13-C12	2.28	1.63	1.51	11	1
3	C	326	PX4	P1-O1	2.28	1.44	1.55	10	2
3	C	360	PX4	C14-C13	2.28	1.63	1.51	15	1
3	B	310	PX4	C2-N1	2.27	1.58	1.51	8	1
3	B	319	PX4	C24-C23	2.27	1.57	1.50	14	1
3	B	329	PX4	C4-N1	2.27	1.56	1.50	2	1
3	B	329	PX4	C5-N1	2.27	1.56	1.50	6	1
3	B	335	PX4	C33-C32	2.27	1.63	1.51	11	2
3	B	342	PX4	C25-C24	2.27	1.60	1.52	10	1
3	B	379	PX4	C4-N1	2.27	1.43	1.50	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	305	PX4	P1-O4	2.27	1.50	1.59	1	1
3	A	620	PX4	O3-C1	2.27	1.35	1.44	15	1
3	B	373	PX4	C25-C24	2.27	1.60	1.52	6	3
3	B	377	PX4	P1-O1	2.27	1.44	1.55	13	4
3	B	386	PX4	P1-O1	2.27	1.44	1.55	3	3
3	B	359	PX4	C25-C24	2.27	1.60	1.52	6	1
3	B	379	PX4	O7-C23	2.27	1.27	1.34	10	4
3	B	398	PX4	P1-O1	2.27	1.44	1.55	14	3
3	C	301	PX4	C5-N1	2.27	1.56	1.50	14	3
3	C	302	PX4	C2-N1	2.27	1.58	1.51	11	1
3	B	323	PX4	C11-C10	2.27	1.60	1.52	8	2
3	B	343	PX4	P1-O1	2.27	1.44	1.55	7	6
3	B	369	PX4	P1-O1	2.27	1.44	1.55	14	3
3	B	393	PX4	O7-C7	2.27	1.41	1.46	13	1
3	C	355	PX4	O4-C6	2.27	1.36	1.44	4	1
3	B	349	PX4	C10-C9	2.27	1.57	1.50	6	3
3	C	356	PX4	P1-O1	2.27	1.44	1.55	4	2
3	B	315	PX4	P1-O1	2.26	1.44	1.55	8	1
3	B	337	PX4	P1-O2	2.26	1.43	1.50	13	1
3	B	340	PX4	P1-O1	2.26	1.44	1.55	10	1
3	B	361	PX4	C5-N1	2.27	1.56	1.50	13	1
3	C	307	PX4	O5-C9	2.27	1.26	1.33	1	1
3	C	348	PX4	P1-O2	2.27	1.43	1.50	5	2
3	C	351	PX4	C34-C33	2.26	1.63	1.51	3	1
3	C	362	PX4	C10-C9	2.27	1.57	1.50	6	1
3	B	340	PX4	O5-C8	2.26	1.50	1.45	4	2
3	C	306	PX4	O5-C9	2.26	1.40	1.33	3	2
3	C	309	PX4	C4-N1	2.26	1.43	1.50	7	2
3	A	604	PX4	C25-C24	2.26	1.60	1.52	4	2
3	A	611	PX4	P1-O1	2.26	1.44	1.55	5	3
3	A	648	PX4	C28-C27	2.26	1.63	1.51	12	2
3	A	628	PX4	P1-O4	2.26	1.50	1.59	14	1
3	A	644	PX4	C16-C15	2.26	1.63	1.51	7	2
3	B	302	PX4	C24-C23	2.26	1.57	1.50	5	1
3	B	316	PX4	C5-N1	2.26	1.56	1.50	7	1
3	B	395	PX4	C24-C23	2.26	1.57	1.50	2	1
3	B	355	PX4	C33-C32	2.26	1.63	1.51	5	1
3	B	377	PX4	C4-N1	2.26	1.43	1.50	8	1
3	B	381	PX4	C24-C23	2.26	1.57	1.50	13	1
3	B	399	PX4	C30-C29	2.26	1.63	1.51	10	1
3	C	368	PX4	C31-C30	2.26	1.63	1.51	1	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	329	PX4	C30-C29	2.26	1.63	1.51	5	1
3	B	363	PX4	C3-N1	2.26	1.43	1.50	5	3
3	C	339	PX4	C13-C12	2.26	1.63	1.51	12	1
3	A	612	PX4	O7-C23	2.26	1.27	1.34	1	1
3	A	619	PX4	P1-O4	2.26	1.68	1.59	1	2
3	B	307	PX4	C14-C13	2.26	1.63	1.51	8	1
3	B	386	PX4	C17-C16	2.26	1.63	1.51	6	1
3	B	392	PX4	C2-N1	2.26	1.58	1.51	7	1
3	B	397	PX4	C13-C12	2.26	1.63	1.51	12	1
3	C	343	PX4	C3-N1	2.26	1.56	1.50	4	2
3	B	319	PX4	C4-N1	2.26	1.43	1.50	9	1
3	A	616	PX4	C24-C23	2.25	1.57	1.50	10	2
3	B	317	PX4	P1-O2	2.25	1.43	1.50	4	1
3	B	386	PX4	C3-N1	2.25	1.56	1.50	1	2
3	C	353	PX4	C5-N1	2.25	1.43	1.50	3	2
3	A	613	PX4	C32-C31	2.25	1.63	1.51	14	1
3	A	631	PX4	C30-C29	2.25	1.63	1.51	15	1
3	A	634	PX4	O7-C23	2.25	1.27	1.34	14	3
3	A	611	PX4	C29-C28	2.25	1.63	1.51	3	1
3	B	309	PX4	P1-O3	2.25	1.50	1.59	5	1
3	B	312	PX4	P1-O2	2.25	1.43	1.50	6	1
3	B	339	PX4	C2-C1	2.25	1.58	1.51	15	1
3	B	371	PX4	O5-C9	2.25	1.39	1.33	5	1
3	C	312	PX4	C14-C13	2.25	1.63	1.51	5	1
3	C	337	PX4	C4-N1	2.25	1.56	1.50	9	1
3	B	348	PX4	P1-O3	2.25	1.50	1.59	14	3
3	C	329	PX4	C25-C24	2.25	1.60	1.52	9	2
3	C	359	PX4	C4-N1	2.25	1.43	1.50	6	1
3	A	632	PX4	C3-N1	2.25	1.56	1.50	12	1
3	A	648	PX4	P1-O1	2.25	1.44	1.55	9	1
3	B	367	PX4	C4-N1	2.25	1.56	1.50	3	1
3	B	315	PX4	O7-C23	2.25	1.27	1.34	8	1
3	B	330	PX4	C4-N1	2.25	1.56	1.50	13	2
3	C	367	PX4	C13-C12	2.25	1.63	1.51	12	1
3	B	367	PX4	P1-O1	2.25	1.44	1.55	3	4
3	C	316	PX4	C13-C12	2.25	1.63	1.51	10	1
3	A	615	PX4	C34-C33	2.25	1.63	1.51	5	2
3	B	311	PX4	O7-C23	2.25	1.40	1.34	3	2
3	B	316	PX4	O7-C23	2.25	1.40	1.34	3	2
3	B	371	PX4	P1-O1	2.25	1.44	1.55	11	2
3	B	338	PX4	O7-C23	2.24	1.27	1.34	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	302	PX4	C13-C12	2.25	1.63	1.51	13	1
3	B	390	PX4	P1-O4	2.24	1.50	1.59	5	1
3	A	621	PX4	C20-C19	2.24	1.62	1.51	7	1
3	A	606	PX4	O7-C23	2.24	1.27	1.34	8	1
3	B	322	PX4	O7-C23	2.24	1.27	1.34	12	1
3	B	313	PX4	P1-O1	2.24	1.45	1.55	2	2
3	B	337	PX4	C27-C26	2.24	1.62	1.51	13	1
3	B	369	PX4	C11-C10	2.24	1.60	1.52	14	2
3	B	380	PX4	C2-N1	2.24	1.58	1.51	8	2
3	B	383	PX4	P1-O3	2.24	1.50	1.59	11	1
3	C	302	PX4	C17-C16	2.24	1.62	1.51	11	1
3	C	357	PX4	C5-N1	2.24	1.43	1.50	4	1
3	C	361	PX4	C26-C25	2.24	1.62	1.51	12	1
3	B	322	PX4	C3-N1	2.24	1.56	1.50	7	1
3	C	312	PX4	P1-O1	2.24	1.45	1.55	9	3
3	C	324	PX4	C2-N1	2.24	1.58	1.51	1	3
3	C	325	PX4	C5-N1	2.24	1.56	1.50	8	3
3	C	350	PX4	C31-C30	2.24	1.62	1.51	2	1
3	A	634	PX4	C11-C10	2.24	1.60	1.52	1	2
3	B	301	PX4	C2-N1	2.24	1.58	1.51	9	2
3	B	370	PX4	O7-C7	2.24	1.41	1.46	13	1
3	B	386	PX4	C10-C9	2.24	1.57	1.50	4	2
3	B	392	PX4	C34-C33	2.24	1.62	1.51	5	1
3	A	619	PX4	C15-C14	2.24	1.62	1.51	2	1
3	B	335	PX4	O5-C9	2.24	1.39	1.33	2	1
3	C	309	PX4	P1-O1	2.24	1.45	1.55	8	1
3	C	318	PX4	O7-C7	2.24	1.41	1.46	5	1
3	C	318	PX4	C2-N1	2.24	1.44	1.51	12	1
3	B	316	PX4	C19-C18	2.23	1.62	1.51	9	1
3	B	355	PX4	O5-C9	2.23	1.26	1.33	10	1
3	B	368	PX4	O5-C9	2.23	1.26	1.33	2	1
3	B	380	PX4	C3-N1	2.24	1.43	1.50	1	1
3	B	369	PX4	C2-N1	2.23	1.58	1.51	12	2
3	B	389	PX4	C5-N1	2.23	1.43	1.50	14	1
3	B	391	PX4	C28-C27	2.23	1.62	1.51	12	1
3	C	315	PX4	C5-N1	2.23	1.56	1.50	15	1
3	C	316	PX4	C29-C28	2.23	1.62	1.51	1	1
3	C	325	PX4	C18-C17	2.23	1.62	1.51	13	1
3	A	631	PX4	C32-C31	2.23	1.62	1.51	12	2
3	B	330	PX4	O5-C8	2.23	1.40	1.45	7	3
3	B	333	PX4	C13-C12	2.23	1.62	1.51	14	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	361	PX4	O7-C23	2.23	1.28	1.34	6	1
3	C	366	PX4	C25-C24	2.23	1.60	1.52	8	3
3	B	360	PX4	C3-N1	2.23	1.56	1.50	9	2
3	B	370	PX4	P1-O3	2.23	1.50	1.59	6	1
3	B	371	PX4	C27-C26	2.23	1.62	1.51	9	1
3	B	379	PX4	C34-C33	2.23	1.62	1.51	1	1
3	C	327	PX4	O5-C8	2.23	1.50	1.45	13	1
3	B	343	PX4	C24-C23	2.23	1.44	1.50	7	2
3	B	396	PX4	C20-C19	2.23	1.62	1.51	5	1
3	C	333	PX4	C11-C10	2.23	1.60	1.52	3	3
3	B	325	PX4	C4-N1	2.23	1.43	1.50	1	3
3	C	340	PX4	C3-N1	2.23	1.43	1.50	2	1
3	A	605	PX4	C30-C29	2.23	1.62	1.51	3	1
3	A	634	PX4	P1-O1	2.23	1.45	1.55	11	4
3	A	623	PX4	P1-O3	2.23	1.50	1.59	8	1
3	B	348	PX4	C19-C18	2.23	1.62	1.51	12	1
3	A	622	PX4	C25-C24	2.23	1.60	1.52	12	1
3	B	338	PX4	C11-C10	2.23	1.60	1.52	4	2
3	B	340	PX4	C33-C32	2.23	1.62	1.51	2	1
3	B	362	PX4	C26-C25	2.23	1.62	1.51	13	1
3	B	310	PX4	P1-O2	2.23	1.43	1.50	12	2
3	B	361	PX4	C24-C23	2.23	1.57	1.50	1	1
3	B	380	PX4	C28-C27	2.23	1.62	1.51	15	1
3	C	304	PX4	C2-N1	2.23	1.58	1.51	7	1
3	C	304	PX4	O3-C1	2.23	1.35	1.44	9	2
3	C	318	PX4	P1-O1	2.23	1.45	1.55	5	2
3	C	332	PX4	O3-C1	2.23	1.35	1.44	2	1
3	C	323	PX4	C33-C32	2.23	1.62	1.51	11	1
3	C	335	PX4	C32-C31	2.23	1.62	1.51	10	1
3	B	348	PX4	C33-C32	2.23	1.62	1.51	3	1
3	C	337	PX4	P1-O2	2.23	1.43	1.50	1	1
3	C	339	PX4	P1-O1	2.22	1.45	1.55	13	2
3	A	622	PX4	C20-C19	2.22	1.62	1.51	10	1
3	B	385	PX4	C28-C27	2.22	1.62	1.51	8	1
3	A	612	PX4	C2-N1	2.22	1.58	1.51	9	1
3	A	642	PX4	C11-C10	2.22	1.60	1.52	12	1
3	A	644	PX4	O7-C7	2.22	1.41	1.46	14	3
3	A	614	PX4	O7-C23	2.22	1.28	1.34	11	1
3	B	315	PX4	C25-C24	2.22	1.60	1.52	3	1
3	B	344	PX4	C16-C15	2.22	1.62	1.51	8	1
3	C	313	PX4	C12-C11	2.22	1.62	1.51	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	332	PX4	C19-C18	2.22	1.62	1.51	12	1
3	B	396	PX4	P1-O1	2.22	1.45	1.55	10	1
3	C	327	PX4	C12-C11	2.22	1.62	1.51	1	1
3	C	352	PX4	C10-C9	2.22	1.57	1.50	12	1
3	A	627	PX4	P1-O2	2.22	1.43	1.50	11	1
3	A	630	PX4	O5-C9	2.22	1.26	1.33	13	1
3	A	646	PX4	P1-O2	2.22	1.43	1.50	2	1
3	B	320	PX4	C27-C26	2.22	1.62	1.51	9	1
3	B	345	PX4	C10-C9	2.22	1.57	1.50	1	1
3	B	351	PX4	C16-C15	2.22	1.62	1.51	5	1
3	B	357	PX4	C25-C24	2.22	1.60	1.52	6	1
3	C	332	PX4	C13-C12	2.22	1.62	1.51	10	1
3	C	357	PX4	C17-C16	2.22	1.62	1.51	5	2
3	A	644	PX4	C10-C9	2.22	1.57	1.50	13	1
3	C	303	PX4	C4-N1	2.22	1.56	1.50	9	1
3	C	359	PX4	O5-C8	2.22	1.50	1.45	9	2
3	A	629	PX4	C25-C24	2.21	1.60	1.52	12	2
3	B	331	PX4	P1-O2	2.21	1.43	1.50	1	1
3	A	629	PX4	C17-C16	2.21	1.62	1.51	11	1
3	B	330	PX4	O4-C6	2.21	1.36	1.44	3	1
3	B	363	PX4	C4-N1	2.21	1.56	1.50	8	2
3	B	371	PX4	C11-C10	2.21	1.60	1.52	5	2
3	B	382	PX4	P1-O3	2.21	1.50	1.59	3	1
3	B	386	PX4	O5-C9	2.21	1.26	1.33	7	1
3	C	342	PX4	C14-C13	2.21	1.62	1.51	13	1
3	B	372	PX4	C13-C12	2.21	1.62	1.51	14	1
3	B	400	PX4	C5-N1	2.21	1.56	1.50	2	1
3	C	305	PX4	O4-C6	2.21	1.36	1.44	5	1
3	C	346	PX4	O5-C9	2.21	1.26	1.33	13	3
3	A	609	PX4	C28-C27	2.21	1.62	1.51	15	1
3	A	609	PX4	C11-C10	2.21	1.60	1.52	2	1
3	B	326	PX4	O5-C9	2.21	1.26	1.33	11	1
3	B	338	PX4	C12-C11	2.21	1.62	1.51	12	1
3	C	332	PX4	O4-C6	2.21	1.36	1.44	9	1
3	C	345	PX4	O5-C9	2.21	1.39	1.33	10	3
3	B	355	PX4	C31-C30	2.21	1.62	1.51	11	1
3	C	339	PX4	O7-C23	2.21	1.28	1.34	2	2
3	C	355	PX4	C18-C17	2.21	1.62	1.51	2	1
3	A	609	PX4	O7-C7	2.21	1.41	1.46	12	1
3	A	646	PX4	P1-O3	2.21	1.50	1.59	5	1
3	B	374	PX4	C31-C30	2.21	1.62	1.51	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	381	PX4	C30-C29	2.21	1.62	1.51	3	1
3	C	302	PX4	C5-N1	2.21	1.56	1.50	13	1
3	C	358	PX4	C30-C29	2.21	1.62	1.51	10	1
3	C	370	PX4	O7-C23	2.21	1.28	1.34	6	1
3	B	321	PX4	C24-C23	2.21	1.44	1.50	15	1
3	C	329	PX4	P1-O4	2.21	1.68	1.59	2	1
3	B	312	PX4	C15-C14	2.21	1.62	1.51	1	1
3	A	606	PX4	O5-C9	2.21	1.26	1.33	7	1
3	B	336	PX4	C2-N1	2.21	1.58	1.51	6	2
3	B	388	PX4	C13-C12	2.21	1.62	1.51	13	1
3	B	391	PX4	C6-C7	2.21	1.57	1.50	5	3
3	B	337	PX4	O5-C9	2.20	1.26	1.33	1	2
3	C	333	PX4	C5-N1	2.21	1.43	1.50	7	1
3	A	625	PX4	C28-C27	2.20	1.62	1.51	15	1
3	B	310	PX4	C12-C11	2.20	1.62	1.51	6	1
3	B	320	PX4	C25-C24	2.20	1.60	1.52	2	1
3	B	329	PX4	O7-C7	2.20	1.41	1.46	9	1
3	B	330	PX4	C20-C19	2.20	1.62	1.51	1	1
3	B	342	PX4	P1-O1	2.20	1.45	1.55	15	3
3	B	345	PX4	C30-C29	2.20	1.62	1.51	3	1
3	B	368	PX4	C10-C9	2.20	1.57	1.50	14	1
3	C	326	PX4	C29-C28	2.20	1.62	1.51	4	1
3	C	342	PX4	C33-C32	2.20	1.62	1.51	9	1
3	A	617	PX4	C5-N1	2.20	1.56	1.50	12	1
3	B	341	PX4	C5-N1	2.20	1.56	1.50	15	2
3	B	351	PX4	C26-C25	2.20	1.62	1.51	9	1
3	B	325	PX4	C28-C27	2.20	1.62	1.51	3	1
3	C	317	PX4	P1-O3	2.20	1.50	1.59	13	1
3	C	349	PX4	C4-N1	2.20	1.56	1.50	1	1
3	C	368	PX4	P1-O1	2.20	1.45	1.55	11	3
3	C	369	PX4	P1-O1	2.20	1.45	1.55	5	4
3	A	612	PX4	C5-N1	2.20	1.56	1.50	12	1
3	B	313	PX4	C25-C24	2.20	1.60	1.52	13	1
3	B	316	PX4	P1-O4	2.20	1.50	1.59	8	1
3	A	648	PX4	C3-N1	2.20	1.43	1.50	7	1
3	B	338	PX4	P1-O1	2.20	1.45	1.55	9	3
3	B	364	PX4	O5-C8	2.20	1.50	1.45	10	1
3	C	327	PX4	P1-O2	2.20	1.43	1.50	11	1
3	C	360	PX4	C26-C25	2.20	1.62	1.51	13	2
3	A	605	PX4	C28-C27	2.20	1.62	1.51	5	1
3	A	612	PX4	P1-O4	2.19	1.50	1.59	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	612	PX4	O4-C6	2.19	1.36	1.44	10	1
3	A	612	PX4	C4-N1	2.20	1.56	1.50	12	1
3	A	633	PX4	P1-O3	2.20	1.50	1.59	1	1
3	B	372	PX4	C29-C28	2.20	1.62	1.51	11	1
3	B	374	PX4	P1-O3	2.19	1.50	1.59	10	1
3	C	306	PX4	O5-C8	2.20	1.40	1.45	6	4
3	A	609	PX4	C17-C16	2.19	1.62	1.51	1	1
3	B	308	PX4	P1-O1	2.19	1.45	1.55	11	4
3	C	313	PX4	C27-C26	2.19	1.62	1.51	1	1
3	C	324	PX4	C14-C13	2.19	1.62	1.51	2	1
3	A	606	PX4	C24-C23	2.19	1.57	1.50	12	2
3	B	348	PX4	C11-C10	2.19	1.60	1.52	11	3
3	B	305	PX4	P1-O4	2.19	1.50	1.59	2	1
3	B	364	PX4	C10-C9	2.19	1.57	1.50	4	2
3	B	386	PX4	C15-C14	2.19	1.62	1.51	5	1
3	C	314	PX4	C11-C10	2.19	1.60	1.52	8	1
3	C	341	PX4	C13-C12	2.19	1.62	1.51	14	1
3	C	342	PX4	C5-N1	2.19	1.43	1.50	10	1
3	C	351	PX4	P1-O3	2.19	1.50	1.59	15	1
3	B	301	PX4	C15-C14	2.19	1.62	1.51	15	1
3	B	311	PX4	C14-C13	2.19	1.62	1.51	1	1
3	A	624	PX4	C3-N1	2.19	1.43	1.50	13	1
3	B	330	PX4	O5-C9	2.19	1.39	1.33	7	1
3	B	337	PX4	O5-C8	2.19	1.40	1.45	10	1
3	B	365	PX4	C2-N1	2.19	1.44	1.51	8	2
3	C	322	PX4	C2-C1	2.19	1.57	1.51	6	2
3	C	329	PX4	O5-C9	2.19	1.39	1.33	6	2
3	B	353	PX4	O4-C6	2.19	1.36	1.44	13	1
3	B	310	PX4	C4-N1	2.19	1.56	1.50	15	2
3	B	336	PX4	C4-N1	2.19	1.56	1.50	13	1
3	B	355	PX4	C5-N1	2.19	1.56	1.50	15	1
3	B	366	PX4	O5-C8	2.19	1.50	1.45	1	2
3	B	367	PX4	C26-C25	2.19	1.62	1.51	13	1
3	B	374	PX4	C3-N1	2.19	1.43	1.50	10	1
3	B	394	PX4	C33-C32	2.19	1.62	1.51	10	1
3	B	396	PX4	C15-C14	2.19	1.62	1.51	9	1
3	C	318	PX4	C25-C24	2.19	1.60	1.52	13	2
3	C	320	PX4	C3-N1	2.19	1.43	1.50	10	2
3	C	332	PX4	O7-C7	2.19	1.41	1.46	13	1
3	C	352	PX4	O5-C9	2.19	1.27	1.33	4	1
3	C	331	PX4	O5-C9	2.19	1.27	1.33	5	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	364	PX4	P1-O1	2.19	1.45	1.55	1	2
3	A	601	PX4	C4-N1	2.19	1.43	1.50	12	1
3	A	605	PX4	P1-O2	2.19	1.43	1.50	3	1
3	A	633	PX4	C25-C24	2.19	1.60	1.52	6	1
3	B	323	PX4	C28-C27	2.19	1.62	1.51	7	1
3	B	349	PX4	P1-O1	2.19	1.45	1.55	15	3
3	B	366	PX4	C25-C24	2.19	1.60	1.52	15	3
3	B	370	PX4	O7-C23	2.19	1.28	1.34	14	2
3	B	387	PX4	C4-N1	2.19	1.56	1.50	10	1
3	B	398	PX4	C27-C26	2.19	1.62	1.51	12	2
3	C	307	PX4	C2-N1	2.19	1.58	1.51	1	1
3	C	309	PX4	C3-N1	2.19	1.43	1.50	13	1
3	B	332	PX4	C3-N1	2.19	1.43	1.50	14	1
3	C	329	PX4	C3-N1	2.19	1.43	1.50	8	1
3	C	361	PX4	C30-C29	2.18	1.62	1.51	5	1
3	C	364	PX4	C33-C32	2.19	1.62	1.51	11	1
3	A	641	PX4	O7-C23	2.18	1.40	1.34	6	1
3	A	629	PX4	P1-O3	2.18	1.67	1.59	15	1
3	A	641	PX4	C13-C12	2.18	1.62	1.51	13	1
3	A	647	PX4	O7-C23	2.18	1.28	1.34	10	1
3	B	314	PX4	C2-N1	2.18	1.58	1.51	10	1
3	B	321	PX4	P1-O1	2.18	1.45	1.55	2	1
3	B	333	PX4	C12-C11	2.18	1.62	1.51	15	1
3	B	356	PX4	C4-N1	2.18	1.43	1.50	4	2
3	C	313	PX4	O5-C9	2.18	1.39	1.33	9	1
3	B	323	PX4	C4-N1	2.18	1.56	1.50	4	1
3	B	394	PX4	C25-C24	2.18	1.60	1.52	8	1
3	A	607	PX4	C25-C24	2.18	1.60	1.52	6	1
3	A	610	PX4	O7-C7	2.18	1.41	1.46	8	2
3	A	616	PX4	O8-C23	2.18	1.29	1.22	1	1
3	A	647	PX4	O5-C9	2.18	1.27	1.33	6	2
3	C	347	PX4	C5-N1	2.18	1.56	1.50	11	1
3	C	365	PX4	C4-N1	2.18	1.56	1.50	2	1
3	B	315	PX4	C32-C31	2.18	1.62	1.51	12	1
3	A	628	PX4	C27-C26	2.18	1.62	1.51	10	1
3	B	304	PX4	C3-N1	2.18	1.56	1.50	4	1
3	A	648	PX4	C13-C12	2.18	1.62	1.51	14	1
3	A	608	PX4	P1-O1	2.18	1.45	1.55	12	3
3	B	305	PX4	P1-O1	2.18	1.45	1.55	6	1
3	B	330	PX4	C15-C14	2.18	1.62	1.51	7	1
3	B	331	PX4	P1-O1	2.18	1.45	1.55	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	331	PX4	O7-C23	2.18	1.28	1.34	7	1
3	B	332	PX4	P1-O4	2.18	1.50	1.59	8	1
3	C	307	PX4	C5-N1	2.18	1.56	1.50	9	1
3	C	342	PX4	C4-N1	2.18	1.56	1.50	8	1
3	C	359	PX4	P1-O3	2.18	1.50	1.59	3	2
3	B	354	PX4	P1-O3	2.18	1.50	1.59	7	1
3	C	313	PX4	C31-C30	2.18	1.62	1.51	1	1
3	C	351	PX4	C32-C31	2.18	1.62	1.51	14	1
3	C	361	PX4	C28-C27	2.18	1.62	1.51	6	1
3	C	323	PX4	C34-C33	2.18	1.62	1.51	11	1
3	B	357	PX4	C32-C31	2.17	1.62	1.51	15	2
3	B	350	PX4	O3-C1	2.17	1.36	1.44	2	1
3	C	307	PX4	P1-O3	2.17	1.50	1.59	15	1
3	A	601	PX4	O5-C9	2.17	1.39	1.33	3	1
3	A	604	PX4	C34-C33	2.17	1.62	1.51	6	1
3	C	335	PX4	C3-N1	2.17	1.56	1.50	6	1
3	C	353	PX4	O5-C8	2.17	1.50	1.45	13	1
3	A	642	PX4	P1-O1	2.17	1.45	1.55	9	1
3	B	361	PX4	O5-C9	2.17	1.27	1.33	6	1
3	B	399	PX4	O3-C1	2.17	1.36	1.44	1	1
3	C	338	PX4	C3-N1	2.17	1.43	1.50	11	1
3	C	318	PX4	O5-C8	2.17	1.40	1.45	14	2
3	C	321	PX4	P1-O2	2.17	1.43	1.50	11	1
3	B	312	PX4	C5-N1	2.17	1.56	1.50	2	1
3	B	338	PX4	O5-C9	2.17	1.39	1.33	9	1
3	B	314	PX4	C12-C11	2.17	1.62	1.51	8	1
3	B	319	PX4	C3-N1	2.17	1.56	1.50	12	1
3	B	326	PX4	P1-O1	2.17	1.45	1.55	12	3
3	B	329	PX4	O3-C1	2.17	1.36	1.44	7	1
3	B	352	PX4	C2-N1	2.17	1.58	1.51	4	1
3	B	391	PX4	P1-O1	2.17	1.45	1.55	13	2
3	A	621	PX4	C4-N1	2.17	1.43	1.50	9	1
3	B	341	PX4	C11-C10	2.17	1.60	1.52	8	1
3	B	348	PX4	C4-N1	2.17	1.56	1.50	9	1
3	A	601	PX4	O3-C1	2.17	1.36	1.44	4	1
3	A	632	PX4	C29-C28	2.17	1.62	1.51	15	1
3	B	303	PX4	P1-O1	2.17	1.45	1.55	10	2
3	B	307	PX4	P1-O3	2.17	1.50	1.59	4	1
3	C	303	PX4	C31-C30	2.17	1.62	1.51	7	1
3	C	319	PX4	O5-C9	2.17	1.39	1.33	15	1
3	C	347	PX4	C14-C13	2.17	1.62	1.51	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	356	PX4	C19-C18	2.17	1.62	1.51	15	1
3	A	630	PX4	C4-N1	2.17	1.56	1.50	9	1
3	B	364	PX4	P1-O1	2.17	1.45	1.55	11	2
3	C	346	PX4	O7-C7	2.17	1.41	1.46	13	2
3	C	353	PX4	P1-O1	2.17	1.45	1.55	7	4
3	B	322	PX4	O5-C9	2.17	1.27	1.33	2	1
3	B	324	PX4	C17-C16	2.17	1.62	1.51	11	1
3	B	358	PX4	C18-C17	2.17	1.62	1.51	12	1
3	A	604	PX4	C3-N1	2.16	1.56	1.50	8	1
3	A	619	PX4	C25-C24	2.16	1.60	1.52	5	2
3	B	355	PX4	C17-C16	2.16	1.62	1.51	7	1
3	B	358	PX4	O7-C23	2.17	1.40	1.34	13	1
3	A	605	PX4	C3-N1	2.16	1.56	1.50	9	1
3	B	325	PX4	O5-C9	2.16	1.27	1.33	14	1
3	B	335	PX4	P1-O3	2.16	1.50	1.59	1	1
3	B	355	PX4	P1-O4	2.16	1.50	1.59	1	1
3	C	331	PX4	C27-C26	2.16	1.62	1.51	6	1
3	C	345	PX4	P1-O2	2.16	1.43	1.50	10	2
3	C	364	PX4	C10-C9	2.16	1.57	1.50	1	1
3	A	608	PX4	C30-C29	2.16	1.62	1.51	9	1
3	B	318	PX4	C11-C10	2.16	1.60	1.52	10	2
3	B	354	PX4	C2-C1	2.16	1.57	1.51	13	2
3	C	316	PX4	P1-O2	2.16	1.43	1.50	3	1
3	B	376	PX4	C32-C31	2.16	1.62	1.51	12	1
3	C	327	PX4	C18-C17	2.16	1.62	1.51	10	1
3	A	611	PX4	C35-C34	2.16	1.65	1.51	6	1
3	A	644	PX4	C5-N1	2.16	1.56	1.50	13	1
3	B	312	PX4	C3-N1	2.16	1.56	1.50	7	1
3	B	392	PX4	C30-C29	2.16	1.62	1.51	15	1
3	B	370	PX4	C27-C26	2.16	1.62	1.51	11	1
3	B	397	PX4	C18-C17	2.16	1.62	1.51	13	2
3	C	307	PX4	C13-C12	2.16	1.62	1.51	4	1
3	A	627	PX4	C31-C30	2.16	1.62	1.51	9	1
3	B	391	PX4	C20-C19	2.16	1.62	1.51	1	1
3	C	336	PX4	C13-C12	2.16	1.62	1.51	9	1
3	C	338	PX4	C4-N1	2.16	1.43	1.50	12	1
3	C	343	PX4	P1-O4	2.16	1.50	1.59	12	2
3	B	336	PX4	C25-C24	2.16	1.60	1.52	4	1
3	C	348	PX4	C3-N1	2.16	1.43	1.50	8	2
3	A	641	PX4	P1-O1	2.16	1.45	1.55	8	2
3	A	633	PX4	C15-C14	2.16	1.62	1.51	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	329	PX4	C11-C10	2.16	1.60	1.52	14	2
3	B	352	PX4	C14-C13	2.16	1.62	1.51	10	1
3	C	305	PX4	C31-C30	2.16	1.62	1.51	8	1
3	C	353	PX4	C34-C33	2.16	1.62	1.51	7	1
3	B	388	PX4	P1-O1	2.16	1.45	1.55	10	1
3	C	333	PX4	O4-C6	2.16	1.36	1.44	5	1
3	B	313	PX4	C5-N1	2.15	1.56	1.50	10	2
3	A	614	PX4	C13-C12	2.15	1.62	1.51	3	1
3	A	620	PX4	C2-N1	2.15	1.58	1.51	12	1
3	B	337	PX4	P1-O4	2.15	1.51	1.59	8	1
3	C	313	PX4	O4-C6	2.15	1.36	1.44	15	1
3	C	329	PX4	C11-C10	2.15	1.60	1.52	1	1
3	C	336	PX4	C4-N1	2.15	1.43	1.50	8	2
3	C	344	PX4	C32-C31	2.15	1.62	1.51	6	1
3	A	603	PX4	C2-N1	2.15	1.58	1.51	1	1
3	A	614	PX4	C4-N1	2.15	1.56	1.50	14	1
3	A	627	PX4	O7-C7	2.15	1.41	1.46	1	2
3	A	634	PX4	C10-C9	2.15	1.57	1.50	12	2
3	B	362	PX4	C34-C33	2.15	1.62	1.51	10	1
3	B	395	PX4	C19-C18	2.15	1.62	1.51	13	1
3	C	357	PX4	C11-C10	2.15	1.60	1.52	10	1
3	A	637	PX4	O7-C23	2.15	1.40	1.34	10	1
3	A	601	PX4	C5-N1	2.15	1.56	1.50	12	2
3	A	602	PX4	C16-C15	2.15	1.62	1.51	12	1
3	A	628	PX4	O3-C1	2.15	1.36	1.44	14	1
3	A	640	PX4	C2-N1	2.15	1.44	1.51	2	1
3	A	646	PX4	C4-N1	2.15	1.56	1.50	7	1
3	B	319	PX4	P1-O3	2.15	1.51	1.59	6	1
3	B	326	PX4	P1-O3	2.15	1.67	1.59	9	1
3	B	349	PX4	C11-C10	2.15	1.60	1.52	1	1
3	B	379	PX4	C13-C12	2.15	1.62	1.51	4	1
3	B	399	PX4	P1-O3	2.15	1.51	1.59	10	1
3	C	316	PX4	C28-C27	2.15	1.62	1.51	12	1
3	C	324	PX4	O7-C23	2.15	1.28	1.34	14	2
3	C	369	PX4	C20-C19	2.15	1.62	1.51	10	1
3	C	370	PX4	C20-C19	2.15	1.62	1.51	1	1
3	A	601	PX4	P1-O1	2.15	1.45	1.55	15	3
3	B	367	PX4	C25-C24	2.15	1.60	1.52	8	1
3	B	392	PX4	P1-O4	2.15	1.51	1.59	9	1
3	B	379	PX4	P1-O2	2.15	1.43	1.50	5	1
3	B	389	PX4	P1-O2	2.15	1.43	1.50	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	362	PX4	C26-C25	2.15	1.62	1.51	2	1
3	A	602	PX4	O3-C1	2.15	1.36	1.44	15	1
3	A	608	PX4	C2-N1	2.15	1.44	1.51	10	1
3	A	640	PX4	C28-C27	2.15	1.62	1.51	3	1
3	B	382	PX4	C11-C10	2.15	1.60	1.52	3	2
3	B	398	PX4	C12-C11	2.15	1.62	1.51	5	1
3	B	312	PX4	O7-C7	2.15	1.41	1.46	14	1
3	A	602	PX4	O4-C6	2.15	1.36	1.44	9	1
3	A	645	PX4	C29-C28	2.15	1.62	1.51	3	1
3	B	306	PX4	C13-C12	2.15	1.62	1.51	5	1
3	B	327	PX4	C3-N1	2.15	1.56	1.50	13	1
3	B	338	PX4	C5-N1	2.14	1.43	1.50	12	1
3	B	341	PX4	C2-N1	2.15	1.44	1.51	11	1
3	B	370	PX4	C3-N1	2.15	1.56	1.50	9	1
3	B	380	PX4	C26-C25	2.15	1.62	1.51	12	1
3	B	387	PX4	C32-C31	2.14	1.62	1.51	11	1
3	B	376	PX4	C25-C24	2.14	1.60	1.52	13	2
3	B	392	PX4	C32-C31	2.14	1.62	1.51	5	1
3	C	320	PX4	C25-C24	2.14	1.60	1.52	15	1
3	C	365	PX4	C25-C24	2.14	1.60	1.52	7	2
3	B	309	PX4	C24-C23	2.14	1.56	1.50	2	1
3	B	350	PX4	O5-C9	2.14	1.39	1.33	13	1
3	B	355	PX4	P1-O3	2.14	1.51	1.59	14	1
3	C	361	PX4	C27-C26	2.14	1.62	1.51	5	1
3	C	366	PX4	C26-C25	2.14	1.62	1.51	12	1
3	B	301	PX4	C24-C23	2.14	1.56	1.50	10	4
3	B	323	PX4	C13-C12	2.14	1.62	1.51	13	1
3	B	381	PX4	P1-O2	2.14	1.43	1.50	8	1
3	B	355	PX4	C12-C11	2.14	1.62	1.51	15	1
3	C	364	PX4	C31-C30	2.14	1.62	1.51	6	1
3	C	314	PX4	C24-C23	2.14	1.56	1.50	10	2
3	C	318	PX4	C5-N1	2.14	1.56	1.50	4	1
3	C	319	PX4	O5-C8	2.14	1.49	1.45	12	1
3	C	342	PX4	C19-C18	2.14	1.62	1.51	13	1
3	C	359	PX4	C11-C10	2.14	1.60	1.52	3	1
3	A	643	PX4	C3-N1	2.14	1.56	1.50	2	1
3	C	352	PX4	O5-C8	2.14	1.49	1.45	10	2
3	C	361	PX4	O4-C6	2.14	1.36	1.44	7	1
3	C	363	PX4	O5-C9	2.14	1.39	1.33	10	1
3	B	309	PX4	C33-C32	2.14	1.62	1.51	13	1
3	B	372	PX4	C28-C27	2.14	1.62	1.51	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	343	PX4	C5-N1	2.14	1.56	1.50	13	1
3	C	354	PX4	O5-C8	2.14	1.40	1.45	13	2
3	B	352	PX4	C31-C30	2.14	1.62	1.51	2	1
3	A	615	PX4	C5-N1	2.14	1.56	1.50	7	2
3	A	616	PX4	C25-C24	2.14	1.44	1.52	12	2
3	B	394	PX4	C4-N1	2.14	1.56	1.50	8	1
3	C	310	PX4	O7-C7	2.14	1.41	1.46	7	1
3	C	333	PX4	C33-C32	2.14	1.62	1.51	14	1
3	B	379	PX4	C25-C24	2.14	1.60	1.52	4	3
3	C	308	PX4	C31-C30	2.14	1.62	1.51	5	1
3	C	318	PX4	P1-O3	2.14	1.67	1.59	13	1
3	C	343	PX4	C14-C13	2.14	1.62	1.51	9	1
3	A	602	PX4	O7-C23	2.13	1.28	1.34	6	1
3	A	644	PX4	C32-C31	2.13	1.62	1.51	11	1
3	B	399	PX4	C12-C11	2.13	1.62	1.51	8	1
3	C	301	PX4	P1-O2	2.13	1.43	1.50	9	1
3	B	323	PX4	C15-C14	2.13	1.62	1.51	8	1
3	C	302	PX4	P1-O1	2.13	1.45	1.55	14	2
3	C	329	PX4	P1-O1	2.13	1.45	1.55	2	1
3	C	349	PX4	P1-O2	2.13	1.43	1.50	10	1
3	C	367	PX4	O7-C7	2.13	1.41	1.46	12	2
3	A	605	PX4	C16-C15	2.13	1.62	1.51	8	1
3	A	606	PX4	P1-O1	2.13	1.45	1.55	10	1
3	B	307	PX4	C3-N1	2.13	1.56	1.50	4	1
3	A	635	PX4	O4-C6	2.13	1.52	1.44	3	1
3	B	320	PX4	C33-C32	2.13	1.62	1.51	11	1
3	B	321	PX4	C16-C15	2.13	1.62	1.51	4	1
3	B	331	PX4	O5-C8	2.13	1.49	1.45	15	2
3	B	351	PX4	P1-O1	2.13	1.45	1.55	12	2
3	B	353	PX4	C34-C33	2.13	1.62	1.51	11	1
3	B	395	PX4	C4-N1	2.13	1.56	1.50	5	1
3	C	347	PX4	C2-N1	2.13	1.58	1.51	12	1
3	C	370	PX4	O5-C9	2.13	1.39	1.33	4	1
3	B	353	PX4	O7-C23	2.13	1.28	1.34	2	1
3	A	603	PX4	C24-C23	2.13	1.56	1.50	2	1
3	A	626	PX4	C16-C15	2.13	1.62	1.51	10	1
3	C	301	PX4	O5-C8	2.13	1.49	1.45	11	1
3	A	630	PX4	P1-O1	2.13	1.45	1.55	10	1
3	A	637	PX4	P1-O4	2.13	1.67	1.59	3	2
3	A	638	PX4	C31-C30	2.13	1.62	1.51	10	1
3	B	360	PX4	C2-N1	2.13	1.58	1.51	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	324	PX4	C27-C26	2.13	1.62	1.51	2	1
3	A	616	PX4	C27-C26	2.13	1.62	1.51	12	2
3	A	616	PX4	C28-C27	2.13	1.62	1.51	15	1
3	A	627	PX4	C12-C11	2.13	1.62	1.51	13	1
3	A	647	PX4	C4-N1	2.13	1.43	1.50	15	2
3	B	375	PX4	C14-C13	2.13	1.62	1.51	13	1
3	B	398	PX4	C33-C32	2.13	1.62	1.51	11	2
3	C	315	PX4	P1-O3	2.13	1.51	1.59	4	1
3	C	355	PX4	P1-O4	2.13	1.51	1.59	9	1
3	C	358	PX4	O4-C6	2.13	1.36	1.44	2	1
3	C	365	PX4	C15-C14	2.13	1.62	1.51	2	1
3	B	322	PX4	C16-C15	2.13	1.41	1.51	13	1
3	B	325	PX4	C27-C26	2.13	1.62	1.51	2	1
3	A	626	PX4	C2-N1	2.12	1.57	1.51	15	2
3	B	303	PX4	C2-N1	2.13	1.57	1.51	11	2
3	B	311	PX4	O5-C9	2.12	1.39	1.33	1	1
3	B	344	PX4	O4-C6	2.13	1.36	1.44	5	1
3	B	355	PX4	O5-C8	2.13	1.40	1.45	14	1
3	B	359	PX4	C14-C13	2.13	1.62	1.51	12	1
3	B	360	PX4	P1-O1	2.13	1.45	1.55	1	1
3	B	372	PX4	C33-C32	2.13	1.62	1.51	11	1
3	C	331	PX4	C3-N1	2.13	1.56	1.50	1	1
3	B	387	PX4	O5-C9	2.12	1.27	1.33	4	1
3	C	321	PX4	O5-C8	2.13	1.40	1.45	1	1
3	A	636	PX4	O4-C6	2.12	1.36	1.44	15	1
3	A	645	PX4	C2-N1	2.12	1.57	1.51	2	1
3	C	302	PX4	P1-O3	2.12	1.51	1.59	5	1
3	C	347	PX4	O3-C1	2.12	1.36	1.44	7	1
3	C	356	PX4	C28-C27	2.12	1.62	1.51	6	1
3	A	614	PX4	C5-N1	2.12	1.56	1.50	11	2
3	B	392	PX4	C14-C13	2.12	1.62	1.51	4	1
3	B	397	PX4	C25-C24	2.12	1.60	1.52	11	1
3	C	304	PX4	C3-N1	2.12	1.56	1.50	2	1
3	C	304	PX4	O5-C8	2.12	1.40	1.45	7	2
3	C	305	PX4	C34-C33	2.12	1.62	1.51	11	1
3	C	309	PX4	C13-C12	2.12	1.62	1.51	6	1
3	A	601	PX4	C14-C13	2.12	1.62	1.51	6	1
3	A	623	PX4	C15-C14	2.12	1.62	1.51	6	1
3	A	642	PX4	C20-C19	2.12	1.62	1.51	14	2
3	C	324	PX4	P1-O4	2.12	1.51	1.59	1	1
3	C	331	PX4	C24-C23	2.12	1.44	1.50	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	354	PX4	C33-C32	2.12	1.62	1.51	6	1
3	A	632	PX4	C27-C26	2.12	1.62	1.51	7	2
3	B	337	PX4	C14-C13	2.12	1.62	1.51	7	1
3	A	637	PX4	C29-C28	2.12	1.62	1.51	5	1
3	B	344	PX4	P1-O2	2.12	1.43	1.50	2	1
3	B	354	PX4	C29-C28	2.12	1.62	1.51	6	1
3	C	310	PX4	O4-C6	2.12	1.36	1.44	3	1
3	C	313	PX4	C29-C28	2.12	1.62	1.51	8	2
3	C	341	PX4	C3-N1	2.12	1.56	1.50	11	1
3	C	352	PX4	C19-C18	2.12	1.62	1.51	13	1
3	B	311	PX4	C5-N1	2.12	1.43	1.50	14	1
3	B	326	PX4	C31-C30	2.12	1.62	1.51	1	2
3	B	340	PX4	C3-N1	2.12	1.56	1.50	7	2
3	A	608	PX4	C3-N1	2.12	1.43	1.50	12	1
3	A	613	PX4	C4-N1	2.12	1.56	1.50	6	1
3	A	647	PX4	O5-C8	2.12	1.40	1.45	15	2
3	B	335	PX4	C13-C12	2.12	1.62	1.51	3	1
3	B	357	PX4	O7-C23	2.12	1.28	1.34	9	1
3	B	374	PX4	C12-C11	2.12	1.62	1.51	15	1
3	C	308	PX4	C4-N1	2.12	1.43	1.50	10	1
3	A	611	PX4	C26-C25	2.11	1.62	1.51	15	1
3	C	351	PX4	O5-C9	2.12	1.39	1.33	3	2
3	A	636	PX4	C15-C14	2.11	1.62	1.51	14	1
3	A	642	PX4	C3-N1	2.11	1.56	1.50	8	2
3	B	354	PX4	C27-C26	2.11	1.62	1.51	11	1
3	C	339	PX4	C5-N1	2.11	1.56	1.50	5	1
3	B	397	PX4	P1-O4	2.11	1.51	1.59	3	1
3	C	310	PX4	C4-N1	2.11	1.56	1.50	11	1
3	C	360	PX4	C18-C17	2.11	1.62	1.51	8	1
3	A	609	PX4	C25-C24	2.11	1.59	1.52	7	1
3	A	619	PX4	P1-O3	2.11	1.51	1.59	14	1
3	B	317	PX4	C32-C31	2.11	1.62	1.51	14	1
3	C	365	PX4	C13-C12	2.11	1.62	1.51	3	1
3	B	312	PX4	C27-C26	2.11	1.62	1.51	1	1
3	B	340	PX4	C27-C26	2.11	1.62	1.51	5	1
3	B	343	PX4	O7-C23	2.11	1.40	1.34	1	1
3	B	385	PX4	P1-O2	2.11	1.43	1.50	12	1
3	B	390	PX4	C20-C19	2.11	1.62	1.51	1	1
3	B	391	PX4	C5-N1	2.11	1.56	1.50	5	1
3	C	315	PX4	O7-C23	2.11	1.40	1.34	1	1
3	C	336	PX4	C2-N1	2.11	1.45	1.51	5	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	354	PX4	C18-C17	2.11	1.62	1.51	2	1
3	A	646	PX4	O4-C6	2.11	1.36	1.44	2	1
3	B	301	PX4	C3-N1	2.11	1.56	1.50	6	3
3	B	334	PX4	C2-N1	2.11	1.57	1.51	4	1
3	A	613	PX4	O4-C6	2.11	1.52	1.44	8	1
3	A	614	PX4	C16-C15	2.11	1.62	1.51	15	1
3	A	636	PX4	C16-C15	2.11	1.62	1.51	15	1
3	B	312	PX4	O4-C6	2.11	1.36	1.44	2	1
3	B	343	PX4	C4-N1	2.11	1.56	1.50	12	1
3	C	349	PX4	C5-N1	2.11	1.43	1.50	2	1
3	A	641	PX4	C5-N1	2.11	1.56	1.50	13	1
3	B	337	PX4	C16-C15	2.10	1.62	1.51	2	1
3	B	338	PX4	C28-C27	2.10	1.62	1.51	14	1
3	B	350	PX4	P1-O1	2.11	1.45	1.55	3	4
3	B	359	PX4	C27-C26	2.11	1.62	1.51	10	1
3	B	362	PX4	C4-N1	2.11	1.56	1.50	13	1
3	B	367	PX4	C2-N1	2.11	1.57	1.51	7	1
3	B	398	PX4	C28-C27	2.10	1.62	1.51	6	1
3	C	342	PX4	C25-C24	2.11	1.59	1.52	5	3
3	B	306	PX4	C26-C25	2.10	1.62	1.51	12	1
3	B	350	PX4	O7-C23	2.10	1.40	1.34	1	1
3	B	357	PX4	C30-C29	2.10	1.62	1.51	4	1
3	B	358	PX4	C4-N1	2.10	1.43	1.50	8	1
3	B	395	PX4	C34-C33	2.10	1.62	1.51	8	1
3	B	368	PX4	C31-C30	2.10	1.62	1.51	12	1
3	B	389	PX4	C20-C19	2.10	1.62	1.51	12	1
3	C	326	PX4	C11-C10	2.10	1.59	1.52	15	1
3	B	397	PX4	C12-C11	2.10	1.62	1.51	13	1
3	C	308	PX4	C2-N1	2.10	1.57	1.51	4	2
3	A	631	PX4	O6-C9	2.10	1.16	1.22	2	1
3	B	319	PX4	C13-C12	2.10	1.62	1.51	2	1
3	B	326	PX4	O7-C23	2.10	1.28	1.34	9	1
3	C	321	PX4	C19-C18	2.10	1.62	1.51	6	1
3	C	367	PX4	P1-O3	2.10	1.51	1.59	7	1
3	A	618	PX4	C20-C19	2.10	1.62	1.51	15	1
3	A	624	PX4	O5-C8	2.10	1.49	1.45	8	1
3	B	306	PX4	O8-C23	2.10	1.28	1.22	12	1
3	B	328	PX4	C11-C10	2.10	1.59	1.52	4	2
3	B	368	PX4	C17-C16	2.10	1.62	1.51	4	1
3	C	316	PX4	C32-C31	2.10	1.62	1.51	12	1
3	C	328	PX4	P1-O1	2.10	1.45	1.55	11	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	317	PX4	O5-C8	2.10	1.49	1.45	9	1
3	C	364	PX4	C25-C24	2.10	1.59	1.52	7	1
3	C	369	PX4	C33-C32	2.10	1.62	1.51	14	1
3	B	301	PX4	C25-C24	2.10	1.59	1.52	3	1
3	B	302	PX4	C36-C35	2.10	1.65	1.50	8	1
3	B	323	PX4	P1-O1	2.10	1.45	1.55	6	1
3	B	327	PX4	C17-C16	2.10	1.62	1.51	10	1
3	B	370	PX4	C13-C12	2.10	1.62	1.51	13	1
3	C	341	PX4	C26-C25	2.10	1.62	1.51	12	1
3	B	340	PX4	P1-O4	2.10	1.51	1.59	11	1
3	C	321	PX4	C18-C17	2.10	1.62	1.51	1	1
3	C	335	PX4	C27-C26	2.09	1.62	1.51	3	1
3	C	342	PX4	C31-C30	2.10	1.62	1.51	12	1
3	C	368	PX4	P1-O3	2.10	1.51	1.59	9	1
3	A	647	PX4	C3-N1	2.09	1.56	1.50	13	2
3	A	633	PX4	C34-C33	2.09	1.62	1.51	12	1
3	B	310	PX4	O7-C23	2.09	1.28	1.34	10	1
3	B	364	PX4	P1-O4	2.09	1.67	1.59	15	1
3	B	376	PX4	C28-C27	2.09	1.62	1.51	2	1
3	C	319	PX4	C4-N1	2.09	1.56	1.50	4	1
3	C	368	PX4	C33-C32	2.09	1.62	1.51	10	1
3	B	355	PX4	C27-C26	2.09	1.62	1.51	1	1
3	B	362	PX4	O5-C9	2.09	1.39	1.33	7	1
3	B	381	PX4	O7-C23	2.09	1.28	1.34	2	1
3	B	387	PX4	P1-O2	2.09	1.43	1.50	3	1
3	A	614	PX4	P1-O1	2.09	1.45	1.55	10	2
3	C	352	PX4	C29-C28	2.09	1.62	1.51	14	1
3	A	621	PX4	O5-C8	2.09	1.40	1.45	15	1
3	B	353	PX4	P1-O2	2.09	1.43	1.50	11	1
3	B	382	PX4	C15-C14	2.09	1.62	1.51	6	1
3	C	309	PX4	C11-C10	2.09	1.59	1.52	7	1
3	C	327	PX4	C16-C15	2.09	1.62	1.51	8	1
3	A	639	PX4	P1-O1	2.09	1.45	1.55	9	2
3	B	372	PX4	O7-C23	2.09	1.28	1.34	8	2
3	B	384	PX4	C16-C15	2.09	1.62	1.51	5	1
3	B	394	PX4	C32-C31	2.09	1.62	1.51	11	1
3	C	327	PX4	P1-O4	2.09	1.51	1.59	9	1
3	B	361	PX4	O7-C7	2.09	1.41	1.46	9	1
3	A	601	PX4	C30-C29	2.09	1.62	1.51	3	1
3	A	631	PX4	O3-C1	2.09	1.36	1.44	15	1
3	C	362	PX4	C18-C17	2.09	1.62	1.51	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	319	PX4	C30-C29	2.09	1.62	1.51	15	1
3	B	323	PX4	O4-C6	2.09	1.52	1.44	2	2
3	C	306	PX4	C26-C25	2.09	1.62	1.51	3	1
3	C	322	PX4	C11-C10	2.09	1.59	1.52	12	1
3	A	608	PX4	C31-C30	2.08	1.62	1.51	12	1
3	A	605	PX4	P1-O3	2.08	1.67	1.59	8	1
3	A	640	PX4	P1-O1	2.08	1.45	1.55	13	1
3	B	303	PX4	C27-C26	2.08	1.62	1.51	13	1
3	B	321	PX4	C2-N1	2.08	1.57	1.51	10	1
3	B	391	PX4	C11-C10	2.09	1.59	1.52	7	1
3	B	306	PX4	C24-C23	2.08	1.56	1.50	4	2
3	C	322	PX4	P1-O2	2.08	1.43	1.50	13	1
3	C	318	PX4	O3-C1	2.08	1.36	1.44	4	1
3	C	356	PX4	C31-C30	2.08	1.62	1.51	6	1
3	B	342	PX4	C31-C30	2.08	1.62	1.51	11	1
3	A	603	PX4	C12-C11	2.08	1.62	1.51	11	1
3	A	628	PX4	P1-O2	2.08	1.43	1.50	13	2
3	A	609	PX4	P1-O2	2.08	1.43	1.50	14	2
3	A	631	PX4	C25-C24	2.08	1.59	1.52	1	1
3	B	312	PX4	C11-C10	2.08	1.59	1.52	14	1
3	B	322	PX4	C17-C16	2.08	1.62	1.51	7	1
3	A	606	PX4	P1-O2	2.08	1.43	1.50	8	1
3	B	303	PX4	C4-N1	2.08	1.56	1.50	8	1
3	B	308	PX4	C2-N1	2.08	1.57	1.51	6	2
3	B	324	PX4	C11-C10	2.08	1.59	1.52	10	1
3	B	357	PX4	C2-N1	2.08	1.57	1.51	8	1
3	C	363	PX4	P1-O2	2.08	1.43	1.50	12	1
3	C	322	PX4	O4-C6	2.08	1.36	1.44	15	1
3	C	343	PX4	O5-C9	2.08	1.27	1.33	3	2
3	C	368	PX4	C11-C10	2.08	1.59	1.52	11	1
3	A	644	PX4	C31-C30	2.08	1.62	1.51	2	1
3	C	353	PX4	P1-O2	2.08	1.43	1.50	7	1
3	B	376	PX4	O4-C6	2.08	1.36	1.44	12	1
3	C	303	PX4	C11-C10	2.08	1.59	1.52	4	1
3	C	311	PX4	C16-C15	2.08	1.62	1.51	10	1
3	A	639	PX4	C28-C27	2.08	1.62	1.51	5	1
3	C	316	PX4	C3-N1	2.08	1.44	1.50	12	1
3	C	318	PX4	C16-C15	2.08	1.62	1.51	14	1
3	A	608	PX4	C5-N1	2.07	1.44	1.50	2	1
3	B	334	PX4	C11-C10	2.07	1.59	1.52	5	1
3	B	339	PX4	C19-C18	2.07	1.62	1.51	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	634	PX4	C29-C28	2.07	1.62	1.51	6	1
3	A	647	PX4	P1-O2	2.07	1.43	1.50	7	1
3	B	361	PX4	C11-C10	2.07	1.59	1.52	14	1
3	B	370	PX4	P1-O4	2.07	1.51	1.59	8	1
3	B	372	PX4	C32-C31	2.07	1.62	1.51	3	2
3	C	343	PX4	P1-O1	2.07	1.45	1.55	2	1
3	C	369	PX4	C32-C31	2.07	1.62	1.51	12	1
3	A	635	PX4	C30-C29	2.07	1.62	1.51	13	1
3	A	638	PX4	C15-C14	2.07	1.62	1.51	5	1
3	A	639	PX4	C19-C18	2.07	1.62	1.51	10	1
3	B	305	PX4	P1-O2	2.07	1.43	1.50	5	1
3	B	330	PX4	C12-C11	2.07	1.62	1.51	3	1
3	B	352	PX4	P1-O2	2.07	1.43	1.50	14	1
3	B	360	PX4	C32-C31	2.07	1.62	1.51	14	1
3	C	323	PX4	C16-C15	2.07	1.62	1.51	13	1
3	A	605	PX4	C27-C26	2.07	1.62	1.51	2	1
3	A	613	PX4	O5-C8	2.07	1.40	1.45	1	1
3	A	618	PX4	C31-C30	2.07	1.62	1.51	4	1
3	B	311	PX4	O4-C6	2.07	1.36	1.44	11	1
3	C	332	PX4	C20-C19	2.07	1.62	1.51	3	1
3	C	370	PX4	O4-C6	2.07	1.36	1.44	8	1
3	B	324	PX4	C20-C19	2.07	1.62	1.51	10	1
3	B	328	PX4	C25-C24	2.07	1.59	1.52	10	1
3	A	641	PX4	O4-C6	2.07	1.36	1.44	15	1
3	A	647	PX4	C5-N1	2.07	1.56	1.50	10	2
3	B	317	PX4	C25-C24	2.07	1.59	1.52	8	1
3	B	332	PX4	C18-C17	2.07	1.62	1.51	3	1
3	B	334	PX4	P1-O2	2.07	1.43	1.50	14	2
3	B	361	PX4	C26-C25	2.07	1.62	1.51	7	1
3	B	398	PX4	C13-C12	2.07	1.62	1.51	2	1
3	C	334	PX4	O5-C9	2.07	1.27	1.33	1	1
3	C	348	PX4	O3-C1	2.07	1.36	1.44	4	1
3	C	361	PX4	C25-C24	2.07	1.59	1.52	2	1
3	C	309	PX4	P1-O2	2.07	1.43	1.50	11	1
3	C	309	PX4	C12-C11	2.07	1.62	1.51	12	1
3	A	631	PX4	C3-N1	2.06	1.56	1.50	3	1
3	B	315	PX4	C4-N1	2.06	1.56	1.50	2	2
3	C	315	PX4	P1-O2	2.07	1.43	1.50	11	1
3	B	332	PX4	O8-C23	2.06	1.28	1.22	8	1
3	C	360	PX4	O5-C9	2.07	1.39	1.33	5	1
3	A	601	PX4	C3-N1	2.06	1.56	1.50	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	648	PX4	P1-O2	2.06	1.43	1.50	2	1
3	B	333	PX4	C11-C10	2.06	1.59	1.52	2	1
3	B	357	PX4	C11-C10	2.06	1.59	1.52	8	1
3	B	372	PX4	C30-C29	2.06	1.62	1.51	14	1
3	B	394	PX4	O5-C9	2.06	1.39	1.33	8	2
3	B	399	PX4	C4-N1	2.06	1.56	1.50	9	2
3	C	307	PX4	O7-C23	2.06	1.28	1.34	1	1
3	C	344	PX4	C3-N1	2.06	1.44	1.50	8	2
3	C	356	PX4	C25-C24	2.06	1.59	1.52	1	2
3	A	602	PX4	C5-N1	2.06	1.44	1.50	9	1
3	A	607	PX4	C4-N1	2.06	1.44	1.50	11	1
3	A	632	PX4	O4-C6	2.06	1.52	1.44	4	1
3	B	332	PX4	C12-C11	2.06	1.62	1.51	15	1
3	B	353	PX4	C20-C19	2.06	1.62	1.51	8	1
3	C	334	PX4	C20-C19	2.06	1.62	1.51	7	1
3	C	338	PX4	P1-O1	2.06	1.45	1.55	5	2
3	B	367	PX4	C31-C30	2.06	1.62	1.51	3	1
3	B	398	PX4	C19-C18	2.06	1.62	1.51	13	1
3	C	358	PX4	P1-O1	2.06	1.45	1.55	5	1
3	A	621	PX4	P1-O4	2.06	1.51	1.59	15	1
3	B	339	PX4	C16-C15	2.06	1.62	1.51	7	1
3	C	340	PX4	C17-C16	2.06	1.62	1.51	14	1
3	C	342	PX4	C34-C33	2.06	1.62	1.51	12	1
3	C	325	PX4	O5-C8	2.06	1.49	1.45	15	1
3	C	330	PX4	C30-C29	2.06	1.62	1.51	7	1
3	C	330	PX4	C4-N1	2.06	1.56	1.50	12	1
3	B	354	PX4	P1-O4	2.06	1.51	1.59	4	1
3	B	377	PX4	C2-N1	2.06	1.45	1.51	4	1
3	B	395	PX4	C14-C13	2.06	1.62	1.51	7	1
3	C	350	PX4	P1-O3	2.06	1.51	1.59	14	1
3	A	609	PX4	P1-O4	2.06	1.51	1.59	6	1
3	A	648	PX4	C2-N1	2.06	1.57	1.51	3	1
3	B	354	PX4	C14-C13	2.06	1.62	1.51	13	1
3	B	359	PX4	C16-C15	2.06	1.62	1.51	1	1
3	B	362	PX4	P1-O4	2.06	1.51	1.59	14	1
3	C	301	PX4	C3-N1	2.06	1.56	1.50	2	1
3	C	318	PX4	C31-C30	2.06	1.62	1.51	4	1
3	C	321	PX4	C26-C25	2.06	1.62	1.51	8	1
3	C	341	PX4	C31-C30	2.06	1.62	1.51	4	1
3	A	625	PX4	C31-C30	2.06	1.62	1.51	2	1
3	A	626	PX4	C11-C10	2.06	1.59	1.52	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	639	PX4	C4-N1	2.06	1.44	1.50	2	1
3	B	302	PX4	C28-C27	2.05	1.62	1.51	1	1
3	B	335	PX4	C18-C17	2.05	1.62	1.51	4	1
3	C	313	PX4	C3-N1	2.06	1.44	1.50	1	1
3	C	328	PX4	C31-C30	2.06	1.62	1.51	2	1
3	B	362	PX4	C29-C28	2.05	1.62	1.51	8	1
3	C	345	PX4	C19-C18	2.06	1.62	1.51	12	1
3	B	339	PX4	C13-C12	2.05	1.62	1.51	13	2
3	B	341	PX4	C25-C24	2.05	1.59	1.52	10	1
3	B	353	PX4	C2-N1	2.05	1.57	1.51	8	1
3	B	363	PX4	P1-O4	2.05	1.51	1.59	14	1
3	B	380	PX4	O3-C1	2.05	1.36	1.44	4	1
3	B	359	PX4	O3-C1	2.05	1.36	1.44	9	1
3	B	380	PX4	C34-C33	2.05	1.62	1.51	13	1
3	B	392	PX4	C5-N1	2.05	1.56	1.50	2	1
3	B	368	PX4	C26-C25	2.05	1.62	1.51	9	1
3	B	373	PX4	O5-C8	2.05	1.40	1.45	14	1
3	B	385	PX4	C5-N1	2.05	1.44	1.50	1	1
3	C	338	PX4	C33-C32	2.05	1.62	1.51	3	1
3	B	374	PX4	C28-C27	2.05	1.62	1.51	14	1
3	C	306	PX4	C11-C10	2.05	1.59	1.52	9	1
3	C	309	PX4	C33-C32	2.05	1.62	1.51	12	1
3	C	343	PX4	O7-C23	2.05	1.28	1.34	8	1
3	B	320	PX4	C11-C10	2.05	1.59	1.52	11	1
3	B	338	PX4	C34-C33	2.05	1.62	1.51	2	1
3	B	360	PX4	C14-C13	2.05	1.62	1.51	15	1
3	A	608	PX4	C14-C13	2.05	1.62	1.51	10	1
3	C	312	PX4	O4-C6	2.05	1.36	1.44	12	1
3	C	337	PX4	C27-C26	2.05	1.62	1.51	7	1
3	B	321	PX4	C33-C32	2.05	1.62	1.51	12	1
3	B	331	PX4	C29-C28	2.05	1.62	1.51	8	2
3	B	373	PX4	C13-C12	2.05	1.62	1.51	15	1
3	C	311	PX4	C31-C30	2.05	1.62	1.51	15	1
3	A	615	PX4	O7-C7	2.05	1.41	1.46	4	1
3	B	399	PX4	P1-O4	2.05	1.67	1.59	4	1
3	B	399	PX4	C32-C31	2.05	1.62	1.51	12	1
3	C	342	PX4	C13-C12	2.05	1.62	1.51	8	1
3	A	629	PX4	C13-C12	2.04	1.62	1.51	10	1
3	A	635	PX4	C11-C10	2.05	1.59	1.52	9	2
3	A	639	PX4	C16-C15	2.04	1.61	1.51	4	1
3	A	644	PX4	C28-C27	2.04	1.62	1.51	1	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	314	PX4	C11-C10	2.04	1.59	1.52	11	3
3	B	334	PX4	C3-N1	2.05	1.44	1.50	2	1
3	C	344	PX4	C19-C18	2.05	1.62	1.51	12	1
3	B	337	PX4	O7-C23	2.04	1.28	1.34	12	1
3	B	346	PX4	C15-C14	2.05	1.62	1.51	3	1
3	B	320	PX4	C5-N1	2.04	1.55	1.50	1	2
3	B	358	PX4	C33-C32	2.04	1.62	1.51	15	1
3	C	322	PX4	C33-C32	2.04	1.62	1.51	3	1
3	C	364	PX4	C14-C13	2.05	1.62	1.51	2	1
3	A	607	PX4	P1-O4	2.04	1.51	1.59	15	1
3	A	609	PX4	C3-N1	2.04	1.44	1.50	15	1
3	A	620	PX4	P1-O2	2.04	1.43	1.50	4	1
3	B	336	PX4	O7-C23	2.04	1.28	1.34	2	1
3	B	399	PX4	O6-C9	2.04	1.28	1.22	9	1
3	C	311	PX4	C35-C34	2.04	1.64	1.51	15	1
3	B	360	PX4	C16-C15	2.04	1.61	1.51	5	1
3	C	319	PX4	P1-O1	2.04	1.45	1.55	6	1
3	C	320	PX4	P1-O1	2.04	1.45	1.55	2	1
3	A	606	PX4	O5-C8	2.04	1.49	1.45	11	1
3	A	627	PX4	O7-C23	2.04	1.28	1.34	6	1
3	C	328	PX4	C3-N1	2.04	1.44	1.50	9	1
3	A	607	PX4	C15-C14	2.04	1.61	1.51	1	1
3	A	607	PX4	C14-C13	2.04	1.61	1.51	13	1
3	B	309	PX4	C18-C17	2.04	1.61	1.51	3	1
3	B	340	PX4	C30-C29	2.04	1.61	1.51	3	1
3	B	364	PX4	O5-C9	2.04	1.39	1.33	3	1
3	C	350	PX4	C29-C28	2.04	1.61	1.51	2	1
3	B	324	PX4	O5-C8	2.04	1.40	1.45	9	1
3	B	339	PX4	C25-C24	2.04	1.59	1.52	3	1
3	B	346	PX4	C34-C33	2.04	1.61	1.51	13	1
3	B	351	PX4	C2-N1	2.04	1.45	1.51	9	1
3	C	325	PX4	O8-C23	2.04	1.28	1.22	12	1
3	A	601	PX4	P1-O4	2.04	1.67	1.59	5	1
3	A	644	PX4	C29-C28	2.04	1.61	1.51	3	1
3	B	303	PX4	P1-O2	2.04	1.43	1.50	6	1
3	B	375	PX4	O7-C7	2.04	1.51	1.46	12	1
3	C	353	PX4	C30-C29	2.04	1.61	1.51	8	1
3	B	357	PX4	P1-O1	2.03	1.45	1.55	3	2
3	B	389	PX4	C12-C11	2.03	1.61	1.51	1	1
3	B	391	PX4	C4-N1	2.03	1.44	1.50	15	1
3	C	368	PX4	O4-C6	2.03	1.36	1.44	13	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	A	609	PX4	C27-C26	2.03	1.61	1.51	11	1
3	A	614	PX4	C34-C33	2.03	1.61	1.51	7	1
3	A	631	PX4	O8-C23	2.03	1.28	1.22	6	1
3	A	643	PX4	P1-O2	2.03	1.43	1.50	12	1
3	A	645	PX4	C26-C25	2.03	1.61	1.51	11	1
3	A	619	PX4	C27-C26	2.03	1.61	1.51	8	1
3	A	641	PX4	C11-C10	2.03	1.59	1.52	9	1
3	A	625	PX4	C5-N1	2.03	1.55	1.50	14	1
3	A	643	PX4	O5-C8	2.03	1.40	1.45	15	1
3	B	317	PX4	C33-C32	2.03	1.61	1.51	14	1
3	B	327	PX4	C30-C29	2.03	1.61	1.51	6	1
3	B	394	PX4	C35-C34	2.03	1.64	1.51	14	1
3	C	310	PX4	C2-N1	2.03	1.45	1.51	7	1
3	C	313	PX4	C34-C33	2.03	1.61	1.51	11	1
3	C	354	PX4	C17-C16	2.03	1.61	1.51	11	2
3	C	358	PX4	O3-C1	2.03	1.36	1.44	14	1
3	B	363	PX4	P1-O3	2.03	1.51	1.59	2	1
3	B	378	PX4	C2-N1	2.03	1.57	1.51	15	1
3	C	328	PX4	P1-O3	2.03	1.51	1.59	11	1
3	C	350	PX4	C4-N1	2.03	1.55	1.50	5	1
3	B	369	PX4	O5-C9	2.03	1.39	1.33	9	1
3	B	383	PX4	P1-O1	2.03	1.45	1.55	10	1
3	C	315	PX4	C32-C31	2.03	1.61	1.51	15	1
3	B	352	PX4	C11-C10	2.03	1.59	1.52	11	1
3	B	399	PX4	C26-C25	2.03	1.61	1.51	8	1
3	C	305	PX4	C18-C17	2.03	1.61	1.51	11	1
3	C	320	PX4	O5-C9	2.03	1.39	1.33	3	1
3	C	320	PX4	C26-C25	2.03	1.61	1.51	11	1
3	C	348	PX4	O5-C9	2.03	1.27	1.33	3	1
3	B	398	PX4	C20-C19	2.03	1.61	1.51	12	1
3	C	308	PX4	C10-C9	2.03	1.56	1.50	2	1
3	C	322	PX4	C20-C19	2.03	1.41	1.51	8	1
3	C	336	PX4	C10-C9	2.03	1.56	1.50	8	1
3	C	361	PX4	O6-C9	2.03	1.28	1.22	5	1
3	A	605	PX4	C11-C10	2.03	1.59	1.52	15	1
3	A	618	PX4	C3-N1	2.03	1.55	1.50	4	1
3	B	321	PX4	C21-C20	2.03	1.64	1.51	10	1
3	B	339	PX4	P1-O4	2.03	1.51	1.59	12	1
3	A	629	PX4	C5-N1	2.03	1.55	1.50	1	1
3	A	632	PX4	O3-C1	2.03	1.36	1.44	12	1
3	A	642	PX4	C4-N1	2.03	1.55	1.50	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	311	PX4	P1-O1	2.03	1.46	1.55	1	1
3	A	610	PX4	C3-N1	2.02	1.55	1.50	15	1
3	A	622	PX4	C14-C13	2.02	1.61	1.51	6	1
3	B	317	PX4	C30-C29	2.02	1.61	1.51	10	1
3	B	319	PX4	P1-O4	2.03	1.51	1.59	12	1
3	B	329	PX4	P1-O2	2.03	1.43	1.50	12	1
3	B	329	PX4	C26-C25	2.03	1.61	1.51	14	1
3	B	344	PX4	P1-O1	2.03	1.46	1.55	12	1
3	B	349	PX4	C5-N1	2.03	1.55	1.50	10	1
3	B	385	PX4	C2-N1	2.03	1.45	1.51	5	1
3	C	308	PX4	O5-C9	2.03	1.27	1.33	4	1
3	C	315	PX4	O5-C9	2.03	1.27	1.33	15	1
3	C	331	PX4	C4-N1	2.03	1.55	1.50	5	1
3	C	334	PX4	C30-C29	2.03	1.61	1.51	3	1
3	C	361	PX4	C32-C31	2.03	1.61	1.51	14	1
3	B	331	PX4	C31-C30	2.02	1.61	1.51	8	1
3	B	333	PX4	C3-N1	2.02	1.44	1.50	5	1
3	B	310	PX4	C5-N1	2.02	1.44	1.50	15	1
3	B	321	PX4	C20-C19	2.02	1.61	1.51	5	1
3	B	337	PX4	C20-C19	2.02	1.61	1.51	9	1
3	C	306	PX4	C27-C26	2.02	1.61	1.51	14	1
3	C	318	PX4	C19-C18	2.02	1.61	1.51	8	1
3	C	360	PX4	C27-C26	2.02	1.61	1.51	9	1
3	B	363	PX4	C32-C31	2.02	1.61	1.51	13	1
3	C	302	PX4	C25-C24	2.02	1.59	1.52	8	1
3	C	362	PX4	C20-C19	2.02	1.61	1.51	1	1
3	B	369	PX4	C33-C32	2.02	1.61	1.51	7	1
3	B	398	PX4	C4-N1	2.02	1.44	1.50	14	1
3	C	307	PX4	C4-N1	2.02	1.44	1.50	2	1
3	C	313	PX4	C13-C12	2.02	1.61	1.51	15	1
3	A	624	PX4	C16-C15	2.02	1.61	1.51	8	1
3	A	638	PX4	C33-C32	2.02	1.61	1.51	8	1
3	B	327	PX4	O5-C8	2.02	1.49	1.45	6	1
3	B	331	PX4	C26-C25	2.02	1.61	1.51	8	1
3	B	355	PX4	O7-C7	2.02	1.41	1.46	9	1
3	C	351	PX4	C16-C15	2.02	1.61	1.51	11	1
3	A	628	PX4	C4-N1	2.02	1.55	1.50	10	2
3	B	302	PX4	C34-C33	2.02	1.61	1.51	7	1
3	B	305	PX4	O7-C23	2.02	1.28	1.34	14	1
3	B	314	PX4	C16-C15	2.02	1.61	1.51	1	1
3	A	607	PX4	C27-C26	2.02	1.61	1.51	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	B	315	PX4	C18-C17	2.02	1.61	1.51	9	1
3	B	322	PX4	C27-C26	2.02	1.61	1.51	4	1
3	B	346	PX4	O8-C23	2.02	1.28	1.22	8	1
3	B	351	PX4	C27-C26	2.02	1.61	1.51	11	1
3	B	366	PX4	C34-C33	2.02	1.61	1.51	13	1
3	C	304	PX4	C4-N1	2.02	1.44	1.50	7	1
3	C	310	PX4	C11-C10	2.02	1.59	1.52	2	1
3	C	356	PX4	C26-C25	2.02	1.61	1.51	10	1
3	B	373	PX4	C10-C9	2.02	1.56	1.50	11	1
3	B	374	PX4	O7-C23	2.02	1.28	1.34	10	1
3	B	400	PX4	C25-C24	2.02	1.59	1.52	15	1
3	C	308	PX4	C14-C13	2.02	1.61	1.51	6	1
3	C	314	PX4	C3-N1	2.02	1.55	1.50	2	1
3	B	306	PX4	P1-O4	2.02	1.51	1.59	8	1
3	A	635	PX4	P1-O4	2.01	1.51	1.59	10	1
3	A	648	PX4	O3-C1	2.01	1.52	1.44	14	1
3	B	302	PX4	C18-C17	2.01	1.61	1.51	10	1
3	B	304	PX4	C15-C14	2.01	1.61	1.51	14	1
3	B	309	PX4	C17-C16	2.01	1.61	1.51	8	1
3	B	351	PX4	O5-C9	2.01	1.39	1.33	13	1
3	B	352	PX4	O4-C6	2.01	1.37	1.44	4	1
3	C	369	PX4	O3-C1	2.02	1.36	1.44	2	1
3	A	643	PX4	C5-N1	2.01	1.55	1.50	4	1
3	A	623	PX4	C5-N1	2.01	1.44	1.50	5	1
3	B	307	PX4	C20-C19	2.01	1.61	1.51	6	1
3	B	312	PX4	C2-N1	2.01	1.57	1.51	11	1
3	B	313	PX4	O5-C9	2.01	1.39	1.33	14	1
3	B	347	PX4	O4-C6	2.01	1.37	1.44	4	1
3	B	370	PX4	C2-N1	2.01	1.57	1.51	12	1
3	B	381	PX4	P1-O4	2.01	1.51	1.59	9	1
3	B	400	PX4	C33-C32	2.01	1.61	1.51	4	1
3	C	314	PX4	C34-C33	2.01	1.61	1.51	9	1
3	C	367	PX4	P1-O4	2.01	1.51	1.59	15	1
3	B	391	PX4	C17-C16	2.01	1.61	1.51	14	1
3	B	322	PX4	C19-C18	2.01	1.61	1.51	3	1
3	B	336	PX4	C34-C33	2.01	1.61	1.51	10	1
3	C	310	PX4	C28-C27	2.01	1.61	1.51	8	1
3	B	363	PX4	P1-O1	2.01	1.46	1.55	9	1
3	B	387	PX4	C13-C12	2.01	1.61	1.51	1	1
3	C	316	PX4	P1-O3	2.01	1.51	1.59	3	1
3	C	319	PX4	C11-C10	2.01	1.59	1.52	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
3	C	329	PX4	C33-C32	2.01	1.61	1.51	13	1
3	C	362	PX4	C11-C10	2.01	1.59	1.52	10	1
3	B	320	PX4	C31-C30	2.01	1.61	1.51	10	1
3	B	346	PX4	C2-N1	2.01	1.45	1.51	9	1
3	B	373	PX4	C29-C28	2.01	1.61	1.51	3	1
3	B	373	PX4	C32-C31	2.01	1.61	1.51	15	1
3	C	322	PX4	C16-C15	2.01	1.61	1.51	1	1
3	C	369	PX4	P1-O2	2.01	1.43	1.50	10	1
3	A	647	PX4	O3-C1	2.01	1.36	1.44	1	1
3	B	308	PX4	P1-O3	2.01	1.51	1.59	4	1
3	C	323	PX4	C19-C18	2.01	1.61	1.51	7	1
3	C	358	PX4	O5-C8	2.01	1.40	1.45	2	1
3	C	360	PX4	C11-C10	2.01	1.59	1.52	1	1
3	A	636	PX4	C3-N1	2.01	1.44	1.50	11	1
3	B	340	PX4	C26-C25	2.01	1.61	1.51	12	1
3	C	321	PX4	C25-C24	2.01	1.59	1.52	6	1
3	C	325	PX4	P1-O4	2.01	1.67	1.59	15	1
3	A	641	PX4	C25-C24	2.01	1.59	1.52	13	1
3	A	642	PX4	P1-O2	2.00	1.43	1.50	12	1
3	B	332	PX4	P1-O3	2.00	1.67	1.59	7	1
3	A	640	PX4	C12-C11	2.00	1.61	1.51	4	1
3	A	643	PX4	C30-C29	2.00	1.61	1.51	13	1
3	B	343	PX4	C32-C31	2.00	1.61	1.51	14	1
3	B	370	PX4	O5-C8	2.00	1.40	1.45	3	1
3	B	350	PX4	O7-C7	2.00	1.41	1.46	1	1
3	C	319	PX4	C28-C27	2.00	1.61	1.51	1	1
3	A	644	PX4	C14-C13	2.00	1.61	1.51	14	1
3	B	373	PX4	P1-O3	2.00	1.51	1.59	14	1
3	A	613	PX4	C24-C23	2.00	1.56	1.50	3	1
3	A	621	PX4	C18-C17	2.00	1.61	1.51	12	1
3	A	622	PX4	C5-N1	2.00	1.44	1.50	4	1
3	A	631	PX4	C34-C33	2.00	1.61	1.51	5	1
3	A	648	PX4	O6-C9	2.00	1.28	1.22	15	1
3	B	364	PX4	C3-N1	2.00	1.55	1.50	15	1
3	C	332	PX4	C34-C33	2.00	1.61	1.51	10	1
3	C	342	PX4	P1-O4	2.00	1.51	1.59	2	1
3	C	367	PX4	C30-C29	2.00	1.61	1.51	2	1
3	B	346	PX4	C24-C23	2.00	1.56	1.50	4	1
3	C	312	PX4	C6-C7	2.00	1.57	1.50	1	1

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	394	PX4	O7-C23-C24	6.26	97.94	111.48	7	4
3	B	343	PX4	C8-C7-C6	5.82	125.35	111.78	3	4
3	C	346	PX4	O5-C8-C7	5.77	125.03	108.40	12	5
3	B	396	PX4	C7-O7-C23	5.70	104.16	117.80	11	5
3	B	327	PX4	C7-O7-C23	5.64	104.30	117.80	1	7
3	B	316	PX4	C7-O7-C23	5.56	104.48	117.80	10	4
3	B	322	PX4	C7-O7-C23	5.47	104.69	117.80	10	3
3	B	347	PX4	C7-O7-C23	5.24	105.26	117.80	15	5
3	C	365	PX4	O7-C23-C24	5.24	100.15	111.48	2	4
3	A	618	PX4	O7-C23-C24	5.19	100.26	111.48	15	5
3	C	348	PX4	O7-C23-C24	5.16	100.31	111.48	11	2
3	B	348	PX4	O5-C8-C7	5.10	123.11	108.40	3	4
3	B	376	PX4	O7-C23-C24	5.08	100.49	111.48	10	3
3	C	362	PX4	O5-C8-C7	5.08	123.03	108.40	15	5
3	C	356	PX4	C8-C7-C6	5.06	99.98	111.78	8	5
3	A	629	PX4	C7-O7-C23	5.06	105.69	117.80	8	6
3	C	312	PX4	C7-O7-C23	5.06	105.69	117.80	13	3
3	A	630	PX4	O5-C8-C7	5.05	122.97	108.40	12	6
3	A	614	PX4	C7-O7-C23	4.96	105.92	117.80	4	4
3	C	342	PX4	C7-O7-C23	4.89	106.09	117.80	2	4
3	B	352	PX4	C7-O7-C23	4.88	106.11	117.80	3	2
3	C	368	PX4	O7-C23-C24	4.84	101.01	111.48	8	4
3	C	369	PX4	O5-C8-C7	4.82	122.29	108.40	15	8
3	A	613	PX4	O5-C8-C7	4.81	122.27	108.40	9	4
3	B	394	PX4	O5-C8-C7	4.81	122.26	108.40	2	7
3	C	305	PX4	O5-C8-C7	4.76	122.12	108.40	3	7
3	A	606	PX4	O5-C8-C7	4.76	122.10	108.40	10	3
3	C	313	PX4	C7-O7-C23	4.74	106.45	117.80	7	4
3	B	323	PX4	C8-C7-C6	4.72	122.79	111.78	14	7
3	B	302	PX4	C7-O7-C23	4.71	106.52	117.80	5	2
3	A	637	PX4	C4-N1-C3	4.71	96.61	108.98	12	2
3	B	368	PX4	O7-C23-O8	4.71	134.71	123.70	4	2
3	B	328	PX4	O5-C8-C7	4.69	121.93	108.40	3	4
3	B	331	PX4	C8-C7-C6	4.69	100.85	111.78	12	3
3	C	337	PX4	O7-C23-O8	4.68	134.65	123.70	15	4
3	B	381	PX4	C7-O7-C23	4.65	106.67	117.80	11	2
3	A	622	PX4	C5-N1-C3	4.63	96.82	108.98	3	4
3	B	377	PX4	O7-C23-C24	4.63	101.47	111.48	12	3
3	B	392	PX4	O5-C8-C7	4.60	121.67	108.40	5	2
3	C	316	PX4	C7-O7-C23	4.59	106.81	117.80	11	2
3	C	315	PX4	C7-O7-C23	4.57	106.87	117.80	10	4
3	B	396	PX4	O7-C23-C24	4.54	101.66	111.48	6	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	353	PX4	C7-O7-C23	4.53	106.96	117.80	11	2
3	B	373	PX4	C4-N1-C3	4.52	120.85	108.98	5	2
3	C	325	PX4	C7-O7-C23	4.51	106.99	117.80	14	5
3	B	358	PX4	C7-O7-C23	4.50	107.02	117.80	1	6
3	C	316	PX4	O5-C8-C7	4.50	121.37	108.40	13	4
3	C	322	PX4	O7-C23-C24	4.49	101.77	111.48	3	4
3	B	369	PX4	C7-O7-C23	4.49	107.06	117.80	5	8
3	A	616	PX4	O7-C23-C24	4.48	101.79	111.48	15	6
3	A	640	PX4	C5-N1-C3	4.47	97.23	108.98	7	3
3	C	312	PX4	O7-C23-C24	4.47	101.82	111.48	6	5
3	C	301	PX4	O7-C23-C24	4.46	101.83	111.48	12	4
3	B	362	PX4	C8-C7-C6	4.44	101.43	111.78	11	3
3	A	612	PX4	C7-O7-C23	4.43	107.19	117.80	11	2
3	C	309	PX4	O5-C8-C7	4.43	121.16	108.40	8	4
3	C	324	PX4	O7-C23-C24	4.42	101.92	111.48	9	6
3	B	331	PX4	O7-C23-C24	4.40	101.95	111.48	5	4
3	B	362	PX4	O5-C9-C10	4.39	98.44	111.83	9	4
3	B	316	PX4	C8-C7-C6	4.39	101.55	111.78	9	3
3	A	634	PX4	O7-C23-C24	4.38	102.00	111.48	11	2
3	B	367	PX4	O7-C23-C24	4.38	120.95	111.48	9	7
3	C	310	PX4	C7-O7-C23	4.37	107.34	117.80	13	3
3	C	356	PX4	C7-O7-C23	4.34	107.42	117.80	13	5
3	C	363	PX4	O7-C23-C24	4.32	102.13	111.48	7	4
3	A	641	PX4	C7-O7-C23	4.31	107.47	117.80	9	7
3	C	360	PX4	O7-C23-C24	4.31	102.15	111.48	4	4
3	B	350	PX4	C7-O7-C23	4.31	107.49	117.80	14	4
3	A	604	PX4	C7-O7-C23	4.29	107.52	117.80	6	6
3	B	330	PX4	C7-O7-C23	4.29	107.53	117.80	13	5
3	B	392	PX4	C7-O7-C23	4.29	107.53	117.80	13	1
3	C	310	PX4	O5-C8-C7	4.29	120.76	108.40	1	5
3	B	351	PX4	C7-O7-C23	4.28	107.55	117.80	1	7
3	C	337	PX4	O7-C23-C24	4.28	102.22	111.48	1	6
3	C	331	PX4	O5-C8-C7	4.28	120.72	108.40	6	4
3	A	617	PX4	C4-N1-C3	4.26	97.78	108.98	13	3
3	C	359	PX4	O7-C23-C24	4.26	102.27	111.48	15	4
3	B	305	PX4	C7-O7-C23	4.25	107.62	117.80	13	8
3	B	385	PX4	C7-O7-C23	4.25	107.63	117.80	11	4
3	B	359	PX4	C5-N1-C3	4.24	97.84	108.98	6	2
3	B	360	PX4	O7-C23-C24	4.24	102.31	111.48	13	7
3	C	320	PX4	C7-O7-C23	4.24	107.66	117.80	13	3
3	B	337	PX4	C7-O7-C23	4.23	107.66	117.80	4	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	370	PX4	O7-C23-C24	4.23	102.32	111.48	10	5
3	B	342	PX4	O7-C23-C24	4.22	102.35	111.48	4	6
3	B	398	PX4	C8-C7-C6	4.21	101.96	111.78	4	1
3	C	334	PX4	O7-C23-C24	4.21	102.37	111.48	11	2
3	B	371	PX4	O7-C23-C24	4.21	102.38	111.48	6	3
3	A	642	PX4	O7-C23-C24	4.20	102.40	111.48	2	6
3	B	400	PX4	C7-O7-C23	4.20	107.75	117.80	14	7
3	B	347	PX4	O7-C23-C24	4.19	102.42	111.48	2	4
3	C	315	PX4	O5-C8-C7	4.18	120.45	108.40	12	7
3	A	603	PX4	O7-C23-C24	4.18	102.44	111.48	6	7
3	A	647	PX4	O5-C8-C7	4.18	120.44	108.40	12	3
3	B	389	PX4	O7-C23-O8	4.17	133.46	123.70	15	2
3	A	609	PX4	C7-O7-C23	4.17	107.81	117.80	15	4
3	B	320	PX4	C7-O7-C23	4.17	107.81	117.80	8	4
3	C	326	PX4	C7-O7-C23	4.17	127.78	117.80	11	8
3	C	337	PX4	O5-C8-C7	4.17	120.42	108.40	1	5
3	A	646	PX4	O7-C23-C24	4.17	102.47	111.48	5	2
3	B	384	PX4	O7-C23-C24	4.16	102.48	111.48	4	4
3	A	640	PX4	O7-C23-C24	4.16	102.49	111.48	7	2
3	C	306	PX4	O7-C23-C24	4.16	102.49	111.48	15	6
3	B	321	PX4	C7-O7-C23	4.15	107.87	117.80	13	5
3	C	370	PX4	O7-C23-C24	4.13	102.55	111.48	5	2
3	B	339	PX4	C7-O7-C23	4.13	107.92	117.80	4	8
3	C	340	PX4	C7-O7-C23	4.13	107.92	117.80	7	4
3	B	366	PX4	C7-O7-C23	4.12	107.95	117.80	1	6
3	B	398	PX4	O7-C23-C24	4.11	102.58	111.48	11	8
3	A	645	PX4	O5-C8-C7	4.10	120.23	108.40	10	2
3	B	351	PX4	O7-C23-C24	4.10	102.61	111.48	11	3
3	A	610	PX4	O7-C23-C24	4.09	102.62	111.48	8	3
3	C	323	PX4	O7-C23-C24	4.09	102.62	111.48	9	3
3	C	352	PX4	C8-C7-C6	4.09	102.25	111.78	9	3
3	A	643	PX4	O7-C23-C24	4.08	102.66	111.48	6	5
3	C	313	PX4	O5-C8-C7	4.08	120.14	108.40	14	5
3	C	329	PX4	C4-N1-C3	4.07	98.28	108.98	13	2
3	A	636	PX4	C7-O7-C23	4.07	108.06	117.80	11	4
3	B	334	PX4	O7-C23-C24	4.07	102.68	111.48	12	3
3	C	324	PX4	C7-O7-C23	4.07	108.06	117.80	12	4
3	B	310	PX4	C7-O7-C23	4.07	108.06	117.80	8	3
3	C	301	PX4	O5-C8-C7	4.07	120.12	108.40	10	6
3	C	307	PX4	C7-O7-C23	4.06	108.08	117.80	8	2
3	A	620	PX4	C8-O5-C9	4.05	102.30	117.12	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	647	PX4	C7-O7-C23	4.04	108.12	117.80	1	7
3	C	360	PX4	C8-C7-C6	4.04	102.37	111.78	4	5
3	B	364	PX4	O7-C23-C24	4.04	102.75	111.48	1	2
3	A	631	PX4	C7-O7-C23	4.03	108.14	117.80	12	5
3	A	642	PX4	C7-O7-C23	4.03	108.14	117.80	10	4
3	A	633	PX4	C7-O7-C23	4.03	108.16	117.80	3	6
3	B	377	PX4	C7-O7-C23	4.02	108.19	117.80	14	2
3	A	608	PX4	C7-O7-C23	4.01	127.40	117.80	1	4
3	A	618	PX4	C8-C7-C6	4.01	102.44	111.78	10	2
3	A	608	PX4	C8-C7-C6	4.01	102.44	111.78	12	3
3	B	355	PX4	C7-O7-C23	4.00	108.21	117.80	5	5
3	C	354	PX4	O5-C8-C7	4.00	119.92	108.40	6	6
3	C	362	PX4	C7-O7-C23	4.00	108.22	117.80	2	3
3	B	326	PX4	C7-O7-C23	3.99	108.24	117.80	8	3
3	A	618	PX4	C7-O7-C23	3.99	108.25	117.80	9	4
3	B	312	PX4	C8-C7-C6	3.99	102.48	111.78	14	2
3	B	394	PX4	C5-N1-C4	3.99	98.49	108.98	15	2
3	C	317	PX4	O7-C23-C24	3.99	102.85	111.48	15	4
3	B	314	PX4	O7-C23-C24	3.99	102.86	111.48	12	6
3	A	605	PX4	O7-C23-O8	3.98	133.01	123.70	14	5
3	B	339	PX4	O7-C23-O8	3.98	133.00	123.70	13	3
3	B	374	PX4	C8-C7-C6	3.97	102.53	111.78	11	2
3	A	628	PX4	O7-C23-C24	3.96	102.92	111.48	10	4
3	B	379	PX4	C7-O7-C23	3.96	108.32	117.80	5	6
3	C	329	PX4	C5-N1-C4	3.96	98.58	108.98	9	3
3	B	344	PX4	O7-C23-C24	3.96	102.92	111.48	7	3
3	A	614	PX4	O5-C8-C7	3.96	119.80	108.40	12	5
3	C	364	PX4	O5-C8-C7	3.96	119.80	108.40	1	4
3	C	355	PX4	C7-O7-C23	3.95	108.33	117.80	5	5
3	C	319	PX4	O5-C8-C7	3.95	119.79	108.40	15	3
3	C	326	PX4	C8-C7-C6	3.95	102.57	111.78	12	3
3	C	313	PX4	O7-C23-C24	3.95	102.94	111.48	8	2
3	C	358	PX4	C7-O7-C23	3.95	108.35	117.80	3	8
3	B	321	PX4	C8-C7-C6	3.94	102.59	111.78	13	2
3	B	333	PX4	O5-C8-C7	3.94	119.77	108.40	1	3
3	C	315	PX4	O7-C23-C24	3.94	102.95	111.48	9	5
3	B	321	PX4	O5-C8-C7	3.94	119.76	108.40	13	4
3	C	323	PX4	C7-O7-C23	3.94	108.36	117.80	14	7
3	B	330	PX4	C5-N1-C3	3.94	98.64	108.98	4	2
3	B	328	PX4	C8-C7-C6	3.93	102.61	111.78	8	2
3	B	396	PX4	O5-C8-C7	3.93	119.73	108.40	10	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	601	PX4	C7-O7-C23	3.93	108.39	117.80	15	8
3	B	324	PX4	O7-C23-C24	3.93	102.99	111.48	12	4
3	A	634	PX4	O5-C9-C10	3.92	99.87	111.83	2	4
3	B	356	PX4	C8-C7-C6	3.92	102.64	111.78	14	3
3	A	639	PX4	O7-C23-C24	3.92	103.00	111.48	12	6
3	B	387	PX4	O7-C23-C24	3.92	103.00	111.48	5	3
3	B	369	PX4	O7-C23-C24	3.91	103.02	111.48	12	6
3	C	352	PX4	O7-C23-C24	3.91	103.02	111.48	4	3
3	C	360	PX4	C7-O7-C23	3.91	108.44	117.80	8	3
3	B	355	PX4	C4-N1-C3	3.90	98.72	108.98	3	2
3	B	303	PX4	C7-O7-C23	3.90	108.47	117.80	6	5
3	C	333	PX4	O7-C23-C24	3.90	103.05	111.48	8	4
3	B	327	PX4	O7-C23-C24	3.89	119.90	111.48	12	2
3	B	335	PX4	O5-C8-C7	3.89	119.60	108.40	9	2
3	C	329	PX4	C8-C7-C6	3.88	102.74	111.78	9	4
3	B	330	PX4	O7-C23-C24	3.87	103.10	111.48	5	4
3	A	648	PX4	C7-O7-C23	3.87	108.53	117.80	5	7
3	A	619	PX4	O7-C23-C24	3.87	103.11	111.48	10	4
3	B	309	PX4	C7-O7-C23	3.87	108.54	117.80	12	6
3	A	601	PX4	O7-C23-C24	3.87	103.12	111.48	12	3
3	B	372	PX4	C7-O7-C23	3.86	108.55	117.80	10	5
3	C	355	PX4	O7-C23-O8	3.87	132.74	123.70	8	4
3	B	311	PX4	O7-C23-O8	3.86	132.74	123.70	15	5
3	B	314	PX4	C5-N1-C3	3.86	98.83	108.98	10	4
3	C	336	PX4	O7-C23-C24	3.86	103.12	111.48	2	5
3	B	340	PX4	C8-C7-C6	3.86	102.79	111.78	8	4
3	B	393	PX4	O7-C23-C24	3.85	103.14	111.48	6	5
3	C	350	PX4	O5-C8-C7	3.85	119.50	108.40	1	4
3	B	400	PX4	O5-C8-C7	3.85	119.49	108.40	3	6
3	B	311	PX4	C5-N1-C4	3.85	98.87	108.98	6	1
3	C	350	PX4	C8-C7-C6	3.85	102.81	111.78	9	4
3	C	365	PX4	C7-O7-C23	3.85	108.59	117.80	15	2
3	B	346	PX4	C8-C7-C6	3.84	102.82	111.78	1	3
3	B	379	PX4	O7-C23-C24	3.85	103.16	111.48	7	5
3	A	646	PX4	C8-C7-C6	3.84	102.83	111.78	7	5
3	B	368	PX4	C7-O7-C23	3.84	108.61	117.80	11	6
3	C	319	PX4	C5-N1-C3	3.84	119.05	108.98	11	4
3	B	395	PX4	C7-O7-C23	3.83	108.62	117.80	12	8
3	B	372	PX4	C8-C7-C6	3.83	102.85	111.78	12	2
3	B	386	PX4	O5-C8-C7	3.83	119.44	108.40	4	5
3	C	322	PX4	C8-C7-C6	3.83	102.86	111.78	11	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	370	PX4	C7-O7-C23	3.82	108.65	117.80	4	7
3	B	369	PX4	C8-C7-C6	3.82	120.69	111.78	14	3
3	C	317	PX4	O5-C8-C7	3.82	119.41	108.40	4	6
3	B	334	PX4	C7-O7-C23	3.82	108.66	117.80	9	6
3	A	608	PX4	O5-C8-C7	3.81	119.38	108.40	5	2
3	C	347	PX4	C5-N1-C3	3.81	98.97	108.98	2	4
3	B	364	PX4	C5-N1-C4	3.81	98.97	108.98	11	4
3	A	615	PX4	C7-O7-C23	3.80	108.69	117.80	15	5
3	B	332	PX4	C8-C7-C6	3.80	120.65	111.78	14	1
3	B	339	PX4	C4-N1-C3	3.80	98.99	108.98	15	2
3	B	376	PX4	C7-O7-C23	3.80	108.70	117.80	2	7
3	C	351	PX4	O7-C23-C24	3.80	103.27	111.48	4	3
3	A	633	PX4	O5-C9-C10	3.79	100.28	111.83	11	1
3	B	340	PX4	O7-C23-C24	3.79	103.29	111.48	2	4
3	C	355	PX4	O7-C23-C24	3.79	103.29	111.48	1	2
3	B	355	PX4	O7-C23-C24	3.78	103.30	111.48	8	5
3	B	361	PX4	C7-O7-C23	3.78	108.75	117.80	3	4
3	A	647	PX4	O5-C9-C10	3.78	100.31	111.83	15	3
3	C	358	PX4	O5-C8-C7	3.78	119.29	108.40	14	4
3	B	327	PX4	O5-C8-C7	3.78	119.29	108.40	4	4
3	C	344	PX4	O7-C23-O8	3.78	132.54	123.70	10	1
3	B	301	PX4	C8-C7-C6	3.77	120.58	111.78	13	2
3	A	603	PX4	O7-C23-O8	3.77	132.51	123.70	2	3
3	A	622	PX4	O7-C23-C24	3.77	103.33	111.48	2	6
3	B	338	PX4	C1-C2-N1	3.76	127.90	115.82	7	2
3	A	642	PX4	C8-C7-C6	3.76	120.55	111.78	9	5
3	B	344	PX4	O7-C23-O8	3.76	132.49	123.70	7	2
3	C	341	PX4	O5-C8-C7	3.76	119.23	108.40	11	5
3	B	308	PX4	O5-C8-C7	3.76	119.23	108.40	2	3
3	C	340	PX4	O7-C23-C24	3.75	103.38	111.48	13	6
3	C	363	PX4	C7-O7-C23	3.75	108.83	117.80	6	6
3	B	393	PX4	O5-C9-O6	3.74	132.99	123.63	6	3
3	A	623	PX4	O7-C23-O8	3.74	132.44	123.70	13	3
3	B	317	PX4	O7-C23-C24	3.73	103.41	111.48	8	5
3	B	397	PX4	O7-C23-C24	3.73	103.41	111.48	14	4
3	C	305	PX4	O7-C23-C24	3.73	103.41	111.48	13	1
3	C	347	PX4	O7-C23-O8	3.73	132.42	123.70	5	3
3	C	368	PX4	C4-N1-C3	3.73	99.18	108.98	4	3
3	B	301	PX4	C7-O7-C23	3.73	108.87	117.80	3	5
3	B	307	PX4	O5-C8-C7	3.72	119.13	108.40	4	5
3	C	370	PX4	O5-C8-C7	3.72	119.13	108.40	7	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	312	PX4	C7-O7-C23	3.72	108.89	117.80	1	5
3	B	329	PX4	C8-C7-C6	3.72	103.11	111.78	13	5
3	B	332	PX4	C5-N1-C3	3.72	99.20	108.98	2	4
3	B	348	PX4	C8-C7-C6	3.72	103.12	111.78	8	4
3	A	644	PX4	C5-N1-C4	3.72	118.74	108.98	7	4
3	C	343	PX4	O5-C8-C7	3.71	119.10	108.40	15	2
3	B	339	PX4	O7-C23-C24	3.71	103.45	111.48	13	6
3	B	368	PX4	O7-C23-C24	3.71	103.45	111.48	4	4
3	B	318	PX4	C25-C24-C23	3.71	127.28	113.69	8	2
3	B	343	PX4	C8-O5-C9	3.71	103.57	117.12	14	3
3	B	353	PX4	C8-C7-C6	3.71	103.14	111.78	6	6
3	B	381	PX4	O7-C23-C24	3.71	103.46	111.48	1	2
3	B	384	PX4	C5-N1-C4	3.71	99.24	108.98	10	1
3	B	329	PX4	C7-O7-C23	3.70	108.93	117.80	10	6
3	A	624	PX4	O5-C8-C7	3.70	119.07	108.40	15	6
3	C	370	PX4	O7-C23-O8	3.70	132.36	123.70	5	3
3	B	370	PX4	O7-C23-O8	3.70	132.36	123.70	3	3
3	C	363	PX4	O5-C9-C10	3.70	100.56	111.83	7	3
3	A	627	PX4	C7-O7-C23	3.70	108.95	117.80	11	4
3	B	388	PX4	C8-C7-C6	3.70	103.17	111.78	5	2
3	C	314	PX4	C7-O7-C23	3.70	108.95	117.80	11	3
3	C	350	PX4	O5-C9-O6	3.69	132.87	123.63	15	1
3	B	342	PX4	O5-C8-C7	3.69	119.04	108.40	7	6
3	B	364	PX4	O5-C8-C7	3.68	119.00	108.40	5	8
3	C	369	PX4	C5-N1-C3	3.67	118.62	108.98	5	3
3	C	305	PX4	C7-O7-C23	3.67	126.58	117.80	6	7
3	B	341	PX4	O7-C7-C8	3.67	121.50	108.34	12	4
3	B	367	PX4	O7-C7-C6	3.67	121.49	108.34	13	2
3	A	634	PX4	C11-C10-C9	3.66	100.27	113.69	6	1
3	A	647	PX4	O5-C9-O6	3.66	132.79	123.63	15	3
3	A	609	PX4	O5-C9-O6	3.66	132.78	123.63	14	4
3	B	359	PX4	P1-O3-C1	3.66	138.68	121.26	5	1
3	B	383	PX4	O7-C23-C24	3.66	103.57	111.48	7	3
3	B	333	PX4	C4-N1-C2	3.65	95.40	109.91	5	1
3	B	362	PX4	C7-O7-C23	3.65	109.06	117.80	12	5
3	B	343	PX4	C4-N1-C3	3.65	118.55	108.98	13	2
3	A	619	PX4	O5-C8-C7	3.64	118.90	108.40	10	6
3	C	348	PX4	C7-O7-C23	3.64	109.08	117.80	8	3
3	A	623	PX4	O5-C9-C10	3.64	100.74	111.83	13	1
3	B	400	PX4	C5-N1-C4	3.64	99.42	108.98	6	3
3	A	602	PX4	O7-C23-C24	3.63	103.62	111.48	3	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	637	PX4	C7-O7-C23	3.63	109.10	117.80	14	5
3	A	646	PX4	C5-N1-C3	3.63	99.43	108.98	7	1
3	B	322	PX4	O7-C23-C24	3.64	103.62	111.48	14	3
3	C	348	PX4	O5-C8-C7	3.63	118.87	108.40	5	6
3	B	326	PX4	O5-C8-C7	3.63	118.86	108.40	12	5
3	B	364	PX4	C8-C7-C6	3.63	120.24	111.78	4	3
3	C	323	PX4	O5-C8-C7	3.63	118.85	108.40	5	4
3	B	305	PX4	O5-C9-O6	3.63	132.70	123.63	15	1
3	B	317	PX4	O5-C8-C7	3.62	118.84	108.40	12	6
3	B	336	PX4	C7-O7-C23	3.62	109.13	117.80	1	5
3	A	610	PX4	C7-O7-C23	3.62	109.13	117.80	10	8
3	B	378	PX4	O7-C23-O8	3.62	132.17	123.70	4	2
3	A	620	PX4	C7-O7-C23	3.62	109.13	117.80	14	6
3	A	632	PX4	C5-N1-C4	3.62	99.47	108.98	9	1
3	A	612	PX4	O7-C23-C24	3.62	103.66	111.48	12	3
3	A	626	PX4	O5-C8-C7	3.61	118.81	108.40	15	5
3	B	306	PX4	C7-O7-C23	3.61	126.44	117.80	1	5
3	A	647	PX4	C4-N1-C3	3.60	118.44	108.98	14	2
3	B	374	PX4	C7-O7-C23	3.60	109.17	117.80	8	5
3	A	627	PX4	O7-C23-C24	3.60	103.69	111.48	4	4
3	C	328	PX4	C4-N1-C3	3.60	99.52	108.98	13	2
3	A	607	PX4	C5-N1-C4	3.60	99.52	108.98	3	3
3	B	304	PX4	C7-O7-C23	3.60	109.18	117.80	6	5
3	C	349	PX4	O7-C23-C24	3.60	103.70	111.48	15	5
3	C	349	PX4	C7-O7-C23	3.60	109.19	117.80	7	3
3	B	310	PX4	C8-C7-C6	3.59	120.16	111.78	13	1
3	C	332	PX4	C4-N1-C3	3.59	99.54	108.98	15	2
3	B	375	PX4	O7-C23-O8	3.59	132.10	123.70	6	4
3	B	352	PX4	C5-N1-C4	3.59	99.55	108.98	5	2
3	A	637	PX4	C8-C7-C6	3.59	103.42	111.78	1	3
3	B	395	PX4	O5-C9-C10	3.59	100.90	111.83	3	1
3	C	346	PX4	C8-C7-C6	3.59	103.42	111.78	15	4
3	B	380	PX4	C8-C7-C6	3.58	120.13	111.78	12	2
3	A	637	PX4	O5-C8-C7	3.58	118.70	108.40	2	5
3	B	369	PX4	C4-N1-C3	3.58	99.58	108.98	8	2
3	B	399	PX4	C7-O7-C23	3.58	109.24	117.80	7	5
3	A	643	PX4	O5-C9-O6	3.57	132.56	123.63	1	4
3	B	334	PX4	O5-C9-C10	3.57	100.96	111.83	9	3
3	B	388	PX4	O7-C23-C24	3.57	103.76	111.48	5	4
3	C	307	PX4	C1-C2-N1	3.57	127.27	115.82	12	1
3	A	620	PX4	O5-C8-C7	3.56	118.67	108.40	1	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	315	PX4	C7-O7-C23	3.56	109.27	117.80	1	7
3	A	623	PX4	O5-C9-O6	3.56	132.54	123.63	2	4
3	B	332	PX4	C7-O7-C23	3.56	126.33	117.80	7	2
3	B	333	PX4	O7-C23-C24	3.56	103.77	111.48	1	3
3	C	320	PX4	C5-N1-C3	3.56	99.62	108.98	1	2
3	A	623	PX4	C7-O7-C23	3.56	109.28	117.80	6	4
3	C	316	PX4	C8-C7-C6	3.56	103.49	111.78	5	1
3	A	602	PX4	O5-C9-O6	3.55	132.52	123.63	9	3
3	B	375	PX4	C5-N1-C4	3.55	118.30	108.98	5	2
3	C	327	PX4	O5-C8-C7	3.55	118.63	108.40	2	5
3	C	336	PX4	C25-C24-C23	3.55	100.70	113.69	15	1
3	A	604	PX4	O5-C8-C7	3.55	118.62	108.40	15	2
3	B	304	PX4	C8-O5-C9	3.54	104.17	117.12	4	4
3	B	317	PX4	O5-C9-O6	3.54	132.49	123.63	8	4
3	A	616	PX4	O5-C9-O6	3.54	132.49	123.63	15	2
3	B	304	PX4	C1-C2-N1	3.54	127.18	115.82	5	1
3	B	394	PX4	O7-C23-O8	3.54	131.98	123.70	7	3
3	C	326	PX4	O7-C23-C24	3.54	103.82	111.48	3	5
3	C	342	PX4	O7-C23-C24	3.54	103.82	111.48	7	6
3	B	383	PX4	O7-C23-O8	3.54	131.97	123.70	5	3
3	C	340	PX4	C26-C25-C24	3.54	100.13	113.13	7	1
3	C	341	PX4	O7-C23-O8	3.54	131.97	123.70	4	2
3	A	645	PX4	C7-O7-C23	3.53	126.25	117.80	6	6
3	B	360	PX4	C7-O7-C23	3.53	126.25	117.80	1	3
3	C	322	PX4	C7-O7-C23	3.53	109.34	117.80	12	2
3	B	320	PX4	O7-C23-O8	3.53	131.95	123.70	5	3
3	A	615	PX4	C8-C7-C6	3.53	103.56	111.78	1	4
3	B	331	PX4	O5-C8-C7	3.53	118.56	108.40	15	5
3	B	365	PX4	O7-C23-O8	3.53	131.95	123.70	7	4
3	B	303	PX4	C5-N1-C3	3.52	99.72	108.98	15	3
3	B	360	PX4	O7-C23-O8	3.52	131.94	123.70	14	2
3	C	363	PX4	C5-N1-C4	3.52	118.23	108.98	13	1
3	A	605	PX4	C7-O7-C23	3.52	109.38	117.80	14	1
3	B	357	PX4	O7-C23-C24	3.52	103.87	111.48	9	4
3	C	334	PX4	O5-C8-C7	3.52	118.53	108.40	3	1
3	C	346	PX4	C7-O7-C23	3.52	109.38	117.80	3	4
3	C	369	PX4	C1-C2-N1	3.51	127.10	115.82	14	4
3	B	347	PX4	C4-N1-C3	3.51	99.75	108.98	10	5
3	C	327	PX4	C7-O7-C23	3.51	109.40	117.80	2	1
3	C	303	PX4	C8-C7-C6	3.51	103.61	111.78	11	5
3	C	312	PX4	O5-C8-C7	3.51	118.51	108.40	2	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	324	PX4	C5-N1-C3	3.51	99.76	108.98	1	4
3	A	613	PX4	O7-C23-C24	3.51	103.90	111.48	1	3
3	A	648	PX4	O7-C23-C24	3.50	103.91	111.48	15	7
3	B	302	PX4	O7-C7-C8	3.50	120.91	108.34	1	2
3	B	379	PX4	O5-C8-C7	3.50	118.49	108.40	10	5
3	C	330	PX4	O7-C23-C24	3.50	103.91	111.48	14	2
3	B	312	PX4	O5-C8-C7	3.50	118.49	108.40	15	6
3	C	357	PX4	O5-C8-C7	3.50	118.48	108.40	2	7
3	B	315	PX4	C8-C7-C6	3.50	103.63	111.78	2	4
3	B	373	PX4	C1-C2-N1	3.50	127.04	115.82	15	4
3	B	374	PX4	C1-C2-N1	3.50	127.04	115.82	6	3
3	C	325	PX4	C5-N1-C4	3.50	99.79	108.98	8	2
3	B	315	PX4	O7-C7-C8	3.49	120.87	108.34	10	2
3	B	332	PX4	C5-N1-C4	3.49	118.15	108.98	11	4
3	B	341	PX4	O5-C8-C7	3.49	118.47	108.40	10	5
3	A	608	PX4	O7-C23-C24	3.49	103.93	111.48	12	4
3	C	307	PX4	O5-C8-C7	3.49	118.46	108.40	8	1
3	B	306	PX4	O7-C23-C24	3.49	103.93	111.48	11	3
3	C	326	PX4	O7-C7-C6	3.49	120.86	108.34	3	1
3	B	356	PX4	O5-C8-C7	3.48	118.44	108.40	14	5
3	B	369	PX4	O5-C9-O6	3.48	132.34	123.63	5	4
3	B	380	PX4	C5-N1-C3	3.48	99.82	108.98	11	2
3	C	302	PX4	C7-O7-C23	3.48	109.46	117.80	7	7
3	C	328	PX4	O7-C23-C24	3.48	103.94	111.48	6	4
3	A	619	PX4	C4-N1-C3	3.48	99.83	108.98	10	3
3	A	648	PX4	C1-C2-N1	3.48	126.99	115.82	15	1
3	C	326	PX4	O5-C8-C7	3.48	118.43	108.40	9	5
3	B	327	PX4	C5-N1-C4	3.48	99.84	108.98	3	3
3	B	384	PX4	C7-O7-C23	3.48	109.47	117.80	15	5
3	B	391	PX4	O7-C23-C24	3.48	119.00	111.48	13	4
3	B	305	PX4	C4-N1-C3	3.48	118.11	108.98	6	2
3	A	602	PX4	C4-N1-C3	3.48	99.85	108.98	14	3
3	B	386	PX4	O7-C23-C24	3.47	103.97	111.48	3	5
3	C	336	PX4	O7-C23-O8	3.48	131.83	123.70	13	2
3	B	395	PX4	O5-C8-C7	3.47	118.41	108.40	13	5
3	C	336	PX4	C7-O7-C23	3.47	109.49	117.80	6	4
3	C	306	PX4	O7-C23-O8	3.47	131.81	123.70	4	2
3	B	357	PX4	C8-C7-C6	3.47	103.70	111.78	4	2
3	B	382	PX4	C7-O7-C23	3.46	109.51	117.80	10	4
3	B	398	PX4	O7-C23-O8	3.46	131.80	123.70	13	3
3	A	644	PX4	O5-C8-C7	3.46	118.37	108.40	15	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	306	PX4	C8-C7-C6	3.46	103.72	111.78	10	2
3	B	326	PX4	C8-O5-C9	3.46	104.47	117.12	2	1
3	C	303	PX4	O5-C8-C7	3.46	118.37	108.40	5	7
3	C	332	PX4	C5-N1-C3	3.46	99.89	108.98	11	3
3	C	354	PX4	C8-C7-C6	3.46	103.72	111.78	2	3
3	B	384	PX4	C8-O5-C9	3.46	104.47	117.12	10	1
3	C	321	PX4	O7-C7-C8	3.46	120.75	108.34	7	1
3	B	309	PX4	O5-C8-C7	3.46	118.36	108.40	13	8
3	B	334	PX4	O5-C8-C7	3.46	118.37	108.40	12	6
3	A	635	PX4	O7-C23-C24	3.46	104.00	111.48	2	6
3	A	648	PX4	C5-N1-C3	3.45	99.90	108.98	5	4
3	C	320	PX4	O5-C8-C7	3.46	118.36	108.40	14	3
3	C	315	PX4	O7-C23-O8	3.45	131.78	123.70	9	2
3	C	343	PX4	O7-C23-C24	3.45	104.01	111.48	1	6
3	A	644	PX4	C7-O7-C23	3.45	109.53	117.80	14	3
3	B	340	PX4	C5-N1-C3	3.45	99.91	108.98	7	1
3	B	387	PX4	C7-O7-C23	3.45	109.53	117.80	10	4
3	B	373	PX4	C8-C7-C6	3.45	119.83	111.78	3	5
3	B	365	PX4	C8-C7-C6	3.44	103.76	111.78	1	4
3	B	371	PX4	C7-O7-C23	3.44	109.56	117.80	3	6
3	B	393	PX4	C7-O7-C23	3.44	109.56	117.80	12	3
3	B	326	PX4	C8-C7-C6	3.44	103.77	111.78	3	3
3	A	634	PX4	P1-O3-C1	3.44	104.89	121.26	7	1
3	C	345	PX4	O7-C23-C24	3.44	104.05	111.48	9	6
3	B	366	PX4	C8-C7-C6	3.44	103.77	111.78	12	2
3	A	648	PX4	O5-C8-C7	3.43	118.30	108.40	10	6
3	C	324	PX4	O5-C8-C7	3.43	118.30	108.40	3	5
3	A	613	PX4	C8-C7-C6	3.43	119.79	111.78	13	4
3	C	333	PX4	O5-C8-C7	3.43	118.29	108.40	11	3
3	C	336	PX4	C8-C7-C6	3.43	103.78	111.78	6	4
3	B	348	PX4	O7-C23-C24	3.43	104.06	111.48	5	5
3	A	636	PX4	C5-N1-C2	3.43	96.29	109.91	3	1
3	C	346	PX4	O7-C23-O8	3.42	131.71	123.70	3	3
3	A	606	PX4	O7-C23-O8	3.42	131.70	123.70	4	2
3	A	619	PX4	C8-C7-C6	3.42	103.81	111.78	9	1
3	C	304	PX4	C7-O7-C23	3.42	109.61	117.80	9	4
3	A	617	PX4	C7-O7-C23	3.42	109.62	117.80	9	4
3	B	350	PX4	O7-C23-C24	3.42	104.09	111.48	9	5
3	C	338	PX4	C7-O7-C23	3.42	109.62	117.80	6	2
3	B	302	PX4	O5-C8-C7	3.41	118.23	108.40	4	2
3	A	603	PX4	C5-N1-C3	3.41	100.01	108.98	2	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	337	PX4	O5-C8-C7	3.41	118.23	108.40	11	4
3	C	353	PX4	C4-N1-C3	3.41	100.01	108.98	3	2
3	B	308	PX4	C5-N1-C3	3.41	100.03	108.98	11	3
3	A	623	PX4	O7-C23-C24	3.41	104.11	111.48	9	3
3	C	356	PX4	O5-C8-C7	3.41	118.22	108.40	11	2
3	A	633	PX4	O7-C23-C24	3.40	104.12	111.48	14	5
3	B	391	PX4	C7-O7-C23	3.40	109.65	117.80	4	6
3	B	333	PX4	C7-O7-C23	3.40	109.66	117.80	5	6
3	B	370	PX4	C4-N1-C3	3.40	117.90	108.98	6	3
3	C	353	PX4	O5-C9-O6	3.40	132.13	123.63	15	3
3	B	365	PX4	O5-C9-O6	3.39	132.12	123.63	8	4
3	C	370	PX4	C8-C7-C6	3.39	103.87	111.78	13	5
3	C	309	PX4	O7-C23-O8	3.39	131.64	123.70	1	5
3	C	343	PX4	C7-O7-C23	3.39	109.68	117.80	2	5
3	B	351	PX4	O7-C7-C6	3.39	120.50	108.34	5	5
3	B	387	PX4	O5-C8-C7	3.39	118.16	108.40	12	7
3	B	361	PX4	C8-C7-C6	3.39	103.89	111.78	10	2
3	A	638	PX4	C5-N1-C4	3.38	100.08	108.98	8	1
3	C	323	PX4	C8-O5-C9	3.38	104.75	117.12	7	3
3	C	359	PX4	C7-O7-C23	3.39	109.69	117.80	15	4
3	B	367	PX4	O5-C8-C7	3.38	118.15	108.40	8	2
3	C	351	PX4	O5-C8-C7	3.38	118.14	108.40	1	2
3	C	368	PX4	O7-C7-C6	3.38	96.23	108.34	5	1
3	B	355	PX4	C8-C7-C6	3.37	103.92	111.78	6	3
3	B	325	PX4	O5-C8-C7	3.37	118.12	108.40	2	8
3	C	315	PX4	C8-O5-C9	3.37	104.79	117.12	4	2
3	C	357	PX4	O7-C23-C24	3.37	104.18	111.48	1	5
3	B	340	PX4	O5-C8-C7	3.37	118.11	108.40	3	6
3	C	365	PX4	O5-C8-C7	3.37	118.11	108.40	11	5
3	B	320	PX4	O7-C23-C24	3.36	104.21	111.48	7	4
3	B	361	PX4	O7-C23-C24	3.36	104.21	111.48	2	4
3	C	325	PX4	O7-C23-C24	3.36	104.21	111.48	5	3
3	B	372	PX4	O7-C23-C24	3.36	104.21	111.48	7	7
3	B	398	PX4	C7-O7-C23	3.36	109.75	117.80	11	6
3	A	643	PX4	C7-O7-C23	3.36	109.76	117.80	6	2
3	B	390	PX4	O5-C8-C7	3.36	118.08	108.40	15	6
3	B	310	PX4	O7-C23-C24	3.36	104.22	111.48	11	2
3	B	324	PX4	O7-C23-O8	3.36	131.55	123.70	9	3
3	C	336	PX4	O7-C7-C8	3.36	120.39	108.34	2	1
3	B	313	PX4	C7-O7-C23	3.35	109.77	117.80	10	7
3	B	324	PX4	C7-O7-C23	3.35	109.77	117.80	1	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	359	PX4	O7-C23-O8	3.35	131.55	123.70	2	4
3	B	389	PX4	C5-N1-C4	3.35	100.17	108.98	3	1
3	B	400	PX4	C25-C24-C23	3.35	125.98	113.69	2	1
3	C	349	PX4	C8-O5-C9	3.35	104.87	117.12	15	2
3	A	630	PX4	O7-C23-C24	3.35	104.23	111.48	4	3
3	B	335	PX4	C7-O7-C23	3.35	109.78	117.80	9	4
3	B	358	PX4	C8-O5-C9	3.35	104.87	117.12	11	3
3	C	317	PX4	C7-O7-C23	3.35	109.78	117.80	6	4
3	C	311	PX4	C11-C10-C9	3.35	101.42	113.69	14	2
3	C	333	PX4	C4-N1-C3	3.35	100.18	108.98	14	3
3	C	303	PX4	O7-C23-O8	3.34	131.52	123.70	1	3
3	A	632	PX4	O7-C23-C24	3.34	104.26	111.48	14	3
3	B	303	PX4	C5-N1-C4	3.34	100.20	108.98	8	3
3	B	365	PX4	O7-C23-C24	3.34	104.25	111.48	5	5
3	C	304	PX4	C11-C10-C9	3.34	101.45	113.69	4	1
3	B	377	PX4	C5-N1-C3	3.34	100.21	108.98	10	2
3	A	644	PX4	O5-C9-O6	3.34	131.97	123.63	13	2
3	B	314	PX4	C7-O7-C23	3.33	109.82	117.80	11	8
3	B	363	PX4	O7-C23-C24	3.33	104.27	111.48	8	6
3	B	377	PX4	O5-C9-C10	3.33	101.67	111.83	1	2
3	B	396	PX4	O7-C23-O8	3.33	131.50	123.70	5	1
3	B	339	PX4	O5-C8-C7	3.33	118.00	108.40	15	5
3	B	343	PX4	O7-C7-C8	3.33	120.27	108.34	15	1
3	C	329	PX4	O5-C9-C10	3.33	101.70	111.83	9	3
3	A	609	PX4	O7-C23-O8	3.32	131.48	123.70	12	2
3	C	328	PX4	C5-N1-C4	3.32	117.70	108.98	1	1
3	A	606	PX4	O7-C23-C24	3.32	104.30	111.48	12	5
3	A	611	PX4	O7-C23-C24	3.32	104.30	111.48	14	5
3	C	351	PX4	C8-C7-C6	3.32	104.04	111.78	10	3
3	B	361	PX4	O5-C8-C7	3.32	117.97	108.40	1	2
3	B	346	PX4	O7-C23-C24	3.32	104.30	111.48	12	3
3	A	605	PX4	C5-N1-C4	3.32	100.27	108.98	4	1
3	C	302	PX4	O7-C23-O8	3.31	131.46	123.70	7	2
3	B	397	PX4	C7-O7-C23	3.31	109.87	117.80	13	6
3	C	366	PX4	O7-C23-O8	3.31	131.45	123.70	4	1
3	B	360	PX4	C8-C7-C6	3.31	104.06	111.78	2	5
3	B	352	PX4	C4-N1-C3	3.31	117.67	108.98	14	3
3	B	304	PX4	C11-C10-C9	3.30	101.59	113.69	12	2
3	B	349	PX4	O5-C9-O6	3.30	131.89	123.63	2	1
3	C	321	PX4	C7-O7-C23	3.30	109.89	117.80	13	5
3	B	332	PX4	O7-C23-C24	3.30	104.34	111.48	5	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	320	PX4	C8-O5-C9	3.30	105.06	117.12	15	1
3	C	362	PX4	C5-N1-C3	3.30	100.31	108.98	9	3
3	A	613	PX4	O7-C7-C6	3.30	120.17	108.34	6	1
3	A	614	PX4	O5-C9-O6	3.30	131.88	123.63	7	1
3	C	350	PX4	O7-C23-O8	3.30	131.41	123.70	3	2
3	B	335	PX4	C5-N1-C4	3.30	100.32	108.98	13	4
3	A	621	PX4	C8-C7-C6	3.29	104.11	111.78	15	2
3	B	341	PX4	C8-C7-C6	3.29	119.46	111.78	1	1
3	B	371	PX4	C26-C25-C24	3.29	101.03	113.13	6	1
3	C	358	PX4	O7-C23-C24	3.29	104.36	111.48	2	2
3	A	628	PX4	O5-C9-C10	3.29	101.80	111.83	13	1
3	B	395	PX4	O7-C7-C8	3.29	120.14	108.34	5	3
3	A	629	PX4	O7-C7-C8	3.29	120.14	108.34	11	2
3	A	634	PX4	O5-C8-C7	3.29	117.87	108.40	7	5
3	B	362	PX4	O7-C23-C24	3.29	104.37	111.48	8	2
3	B	370	PX4	C7-O7-C23	3.29	109.93	117.80	5	3
3	C	321	PX4	O5-C8-C7	3.28	117.86	108.40	9	2
3	A	622	PX4	C7-O7-C23	3.28	109.94	117.80	1	5
3	C	301	PX4	O7-C23-O8	3.28	131.38	123.70	12	4
3	C	354	PX4	O7-C23-C24	3.28	104.38	111.48	11	1
3	C	314	PX4	C8-O5-C9	3.28	105.13	117.12	3	4
3	C	368	PX4	O5-C9-C10	3.28	101.83	111.83	10	5
3	A	622	PX4	C5-N1-C4	3.28	100.36	108.98	11	2
3	C	308	PX4	C7-O7-C23	3.28	125.64	117.80	12	3
3	C	365	PX4	O5-C9-C10	3.28	101.84	111.83	5	1
3	B	350	PX4	C5-N1-C3	3.27	100.38	108.98	10	4
3	B	365	PX4	C7-O7-C23	3.27	109.96	117.80	12	4
3	B	356	PX4	C5-N1-C4	3.27	100.38	108.98	12	1
3	B	337	PX4	C11-C10-C9	3.27	101.72	113.69	7	1
3	B	357	PX4	C4-N1-C3	3.27	100.39	108.98	10	1
3	C	330	PX4	C7-O7-C23	3.27	109.97	117.80	13	4
3	B	303	PX4	O5-C9-O6	3.27	131.80	123.63	9	2
3	B	354	PX4	O7-C23-C24	3.27	104.42	111.48	12	2
3	A	626	PX4	O7-C23-C24	3.26	104.42	111.48	8	2
3	A	632	PX4	O7-C7-C6	3.26	120.05	108.34	8	1
3	B	313	PX4	C5-N1-C4	3.26	117.55	108.98	2	3
3	C	318	PX4	C5-N1-C4	3.26	100.41	108.98	8	2
3	B	312	PX4	C4-N1-C3	3.26	117.54	108.98	11	2
3	B	399	PX4	O5-C8-C7	3.26	117.80	108.40	8	5
3	C	330	PX4	O5-C8-C7	3.26	117.79	108.40	13	4
3	C	363	PX4	C11-C10-C9	3.26	125.64	113.69	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	337	PX4	O7-C23-C24	3.26	104.43	111.48	8	5
3	A	643	PX4	O5-C8-C7	3.26	117.78	108.40	10	3
3	B	366	PX4	O7-C23-C24	3.26	104.44	111.48	8	5
3	C	330	PX4	C25-C24-C23	3.25	125.62	113.69	2	1
3	B	381	PX4	C4-N1-C3	3.25	117.52	108.98	10	4
3	B	387	PX4	O5-C9-C10	3.25	101.92	111.83	12	3
3	B	330	PX4	O7-C7-C8	3.25	120.00	108.34	11	2
3	B	397	PX4	C5-N1-C4	3.25	117.51	108.98	13	2
3	A	633	PX4	O5-C9-O6	3.25	131.75	123.63	4	2
3	B	328	PX4	O7-C23-C24	3.25	104.46	111.48	7	5
3	C	332	PX4	O7-C7-C8	3.25	119.99	108.34	1	1
3	C	364	PX4	C7-O7-C23	3.24	110.03	117.80	12	3
3	A	607	PX4	C8-C7-C6	3.24	104.22	111.78	12	1
3	A	609	PX4	C8-C7-C6	3.24	104.23	111.78	15	3
3	B	311	PX4	O7-C23-C24	3.24	118.49	111.48	11	3
3	B	378	PX4	O5-C8-C7	3.24	117.74	108.40	2	5
3	A	611	PX4	O5-C8-C7	3.24	117.74	108.40	11	3
3	B	324	PX4	O5-C8-C7	3.24	117.74	108.40	11	5
3	B	326	PX4	O7-C23-C24	3.24	104.47	111.48	10	6
3	A	632	PX4	O5-C8-C7	3.24	117.73	108.40	13	3
3	A	609	PX4	O5-C8-C7	3.24	117.72	108.40	1	3
3	C	364	PX4	O7-C23-C24	3.23	104.48	111.48	10	5
3	C	341	PX4	C8-C7-C6	3.23	104.25	111.78	9	3
3	C	302	PX4	O5-C9-O6	3.23	131.71	123.63	2	4
3	A	603	PX4	C8-C7-C6	3.23	119.31	111.78	7	4
3	B	344	PX4	C4-N1-C3	3.23	100.50	108.98	1	1
3	B	344	PX4	C8-C7-C6	3.23	104.26	111.78	7	3
3	B	359	PX4	C7-O7-C23	3.23	110.07	117.80	10	4
3	C	338	PX4	C8-C7-C6	3.23	104.26	111.78	7	2
3	C	370	PX4	C5-N1-C3	3.23	100.50	108.98	2	4
3	B	323	PX4	O5-C8-C7	3.22	117.69	108.40	6	5
3	A	636	PX4	O7-C23-O8	3.22	131.24	123.70	8	3
3	B	353	PX4	C1-C2-N1	3.22	126.16	115.82	15	2
3	B	377	PX4	O7-C23-O8	3.22	131.24	123.70	14	1
3	A	620	PX4	C5-N1-C3	3.22	100.52	108.98	10	1
3	B	314	PX4	C5-N1-C4	3.22	100.52	108.98	2	1
3	A	614	PX4	O7-C23-C24	3.22	104.53	111.48	5	5
3	A	646	PX4	O5-C8-C7	3.22	117.67	108.40	11	3
3	B	306	PX4	C5-N1-C4	3.22	117.42	108.98	7	2
3	B	331	PX4	O5-C9-O6	3.22	131.67	123.63	3	2
3	A	617	PX4	O7-C23-C24	3.21	104.53	111.48	1	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	625	PX4	C7-O7-C23	3.21	110.10	117.80	15	2
3	C	361	PX4	C7-O7-C23	3.22	110.10	117.80	1	7
3	B	399	PX4	C11-C10-C9	3.21	101.92	113.69	15	1
3	B	311	PX4	C5-N1-C3	3.21	100.54	108.98	14	1
3	C	321	PX4	C8-C7-C6	3.21	119.28	111.78	14	4
3	A	639	PX4	C8-C7-C6	3.21	119.27	111.78	5	2
3	C	333	PX4	C7-O7-C23	3.21	110.11	117.80	1	6
3	C	357	PX4	O7-C23-O8	3.21	131.21	123.70	5	3
3	B	311	PX4	C8-C7-C6	3.21	119.27	111.78	9	2
3	B	323	PX4	O7-C23-C24	3.21	104.54	111.48	2	4
3	B	305	PX4	O7-C23-C24	3.21	104.54	111.48	5	5
3	B	323	PX4	C5-N1-C4	3.21	117.40	108.98	6	4
3	B	348	PX4	C7-O7-C23	3.21	110.12	117.80	5	4
3	C	347	PX4	O7-C23-C24	3.21	104.54	111.48	6	5
3	B	322	PX4	O5-C9-C10	3.20	102.06	111.83	2	2
3	B	394	PX4	O5-C9-C10	3.21	102.06	111.83	11	1
3	C	324	PX4	O7-C23-O8	3.20	131.19	123.70	8	3
3	C	351	PX4	C4-N1-C3	3.20	100.56	108.98	1	3
3	B	377	PX4	C4-N1-C3	3.20	100.57	108.98	5	3
3	C	331	PX4	C7-O7-C23	3.20	110.13	117.80	4	5
3	A	623	PX4	C8-C7-C6	3.20	119.25	111.78	14	3
3	B	345	PX4	O5-C9-O6	3.20	131.63	123.63	1	3
3	B	358	PX4	O7-C23-C24	3.20	104.56	111.48	1	6
3	C	349	PX4	C8-C7-C6	3.20	104.33	111.78	2	3
3	A	602	PX4	O7-C7-C6	3.20	96.88	108.34	1	2
3	B	356	PX4	O7-C23-C24	3.20	104.57	111.48	15	3
3	C	309	PX4	C1-C2-N1	3.19	126.08	115.82	11	1
3	B	372	PX4	O5-C8-C7	3.19	117.60	108.40	5	4
3	B	343	PX4	O5-C8-C7	3.19	117.60	108.40	14	4
3	B	385	PX4	O5-C8-C7	3.19	117.60	108.40	12	3
3	A	637	PX4	C1-C2-N1	3.19	126.06	115.82	14	1
3	B	309	PX4	O7-C23-C24	3.19	104.58	111.48	7	6
3	B	395	PX4	C8-C7-C6	3.19	104.34	111.78	15	3
3	C	341	PX4	C7-O7-C23	3.19	110.16	117.80	5	4
3	C	342	PX4	O5-C9-O6	3.19	115.65	123.63	11	2
3	C	311	PX4	C4-N1-C3	3.19	100.60	108.98	5	2
3	C	332	PX4	C5-N1-C4	3.19	100.60	108.98	14	2
3	C	314	PX4	O5-C8-C7	3.19	117.59	108.40	10	6
3	B	373	PX4	C7-O7-C23	3.19	110.17	117.80	9	3
3	C	329	PX4	C8-O5-C9	3.19	105.47	117.12	8	1
3	B	315	PX4	C5-N1-C4	3.18	100.61	108.98	1	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	336	PX4	O5-C8-C7	3.18	117.57	108.40	1	3
3	B	318	PX4	C7-O7-C23	3.18	110.19	117.80	8	5
3	B	352	PX4	O5-C8-C7	3.18	117.56	108.40	14	3
3	B	355	PX4	O5-C8-C7	3.18	117.56	108.40	15	4
3	B	384	PX4	O7-C7-C8	3.18	119.75	108.34	9	3
3	A	610	PX4	C4-N1-C3	3.18	100.63	108.98	2	1
3	A	605	PX4	O7-C23-C24	3.18	104.61	111.48	7	2
3	A	634	PX4	O5-C9-O6	3.18	131.57	123.63	4	1
3	A	641	PX4	O7-C23-C24	3.18	104.61	111.48	10	3
3	B	399	PX4	C5-N1-C4	3.18	117.32	108.98	7	2
3	B	314	PX4	O5-C8-C7	3.17	117.55	108.40	4	4
3	B	367	PX4	O5-C9-O6	3.17	131.57	123.63	11	4
3	B	390	PX4	O5-C9-C10	3.17	102.16	111.83	13	1
3	C	333	PX4	C5-N1-C3	3.17	117.31	108.98	14	3
3	C	333	PX4	O7-C23-O8	3.17	131.12	123.70	6	3
3	C	370	PX4	O5-C9-C10	3.17	102.16	111.83	14	3
3	B	329	PX4	C5-N1-C4	3.17	117.30	108.98	1	2
3	B	356	PX4	C1-C2-N1	3.17	126.00	115.82	9	1
3	B	396	PX4	O5-C9-C10	3.17	102.17	111.83	5	3
3	A	605	PX4	C5-N1-C3	3.17	100.65	108.98	12	3
3	A	612	PX4	C5-N1-C3	3.17	117.30	108.98	11	3
3	B	395	PX4	O7-C23-O8	3.17	131.11	123.70	4	1
3	A	607	PX4	C7-O7-C23	3.17	110.22	117.80	11	2
3	B	312	PX4	C5-N1-C4	3.17	100.66	108.98	11	2
3	C	312	PX4	P1-O3-C1	3.17	136.34	121.26	12	1
3	A	644	PX4	C4-N1-C3	3.16	117.29	108.98	15	1
3	B	346	PX4	C7-O7-C23	3.17	110.22	117.80	9	3
3	B	369	PX4	O5-C8-C7	3.16	117.52	108.40	7	5
3	C	311	PX4	O5-C8-C7	3.16	117.52	108.40	13	7
3	C	335	PX4	C7-O7-C23	3.16	110.22	117.80	12	5
3	C	313	PX4	O7-C7-C8	3.16	119.68	108.34	10	4
3	C	358	PX4	C8-C7-C6	3.16	104.42	111.78	15	4
3	A	643	PX4	C26-C25-C24	3.16	124.72	113.13	5	1
3	C	356	PX4	O7-C7-C8	3.16	119.67	108.34	8	2
3	C	361	PX4	C4-N1-C3	3.16	100.69	108.98	4	4
3	B	354	PX4	O5-C8-C7	3.15	117.49	108.40	3	2
3	A	601	PX4	O5-C8-C7	3.15	117.48	108.40	12	6
3	A	625	PX4	O5-C8-C7	3.15	99.31	108.40	6	2
3	C	355	PX4	C8-C7-C6	3.15	119.13	111.78	2	1
3	A	611	PX4	O7-C7-C8	3.15	119.64	108.34	13	4
3	A	618	PX4	C12-C11-C10	3.15	101.55	113.13	11	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	376	PX4	C8-C7-C6	3.15	104.44	111.78	1	3
3	B	391	PX4	C26-C25-C24	3.15	124.69	113.13	9	3
3	C	365	PX4	C8-C7-C6	3.15	104.44	111.78	3	3
3	A	628	PX4	O7-C23-O8	3.15	131.06	123.70	10	1
3	B	309	PX4	O5-C9-C10	3.15	102.24	111.83	1	5
3	C	365	PX4	C5-N1-C3	3.15	100.71	108.98	3	1
3	A	624	PX4	C25-C24-C23	3.14	102.17	113.69	5	1
3	B	369	PX4	O7-C23-O8	3.15	131.06	123.70	15	3
3	B	311	PX4	C12-C11-C10	3.14	101.57	113.13	8	1
3	C	316	PX4	O7-C23-C24	3.14	104.68	111.48	10	4
3	C	337	PX4	C7-O7-C23	3.14	110.27	117.80	9	5
3	B	327	PX4	O5-C9-O6	3.14	131.49	123.63	11	1
3	B	338	PX4	O7-C23-C24	3.14	104.68	111.48	1	2
3	B	354	PX4	C5-N1-C3	3.14	100.73	108.98	2	1
3	B	381	PX4	O5-C8-C7	3.14	117.45	108.40	10	4
3	A	615	PX4	C5-N1-C4	3.14	117.22	108.98	11	1
3	B	348	PX4	O7-C23-O8	3.14	131.04	123.70	6	2
3	B	399	PX4	C5-N1-C3	3.14	117.22	108.98	5	1
3	C	352	PX4	C7-O7-C23	3.14	110.28	117.80	6	2
3	A	613	PX4	C25-C24-C23	3.14	125.18	113.69	2	1
3	C	319	PX4	C8-C7-C6	3.14	104.47	111.78	7	3
3	C	308	PX4	O7-C23-C24	3.13	104.70	111.48	3	3
3	B	366	PX4	O5-C8-C7	3.13	117.43	108.40	9	3
3	C	332	PX4	O7-C23-C24	3.13	104.70	111.48	9	3
3	A	613	PX4	O7-C7-C8	3.13	119.58	108.34	3	2
3	C	362	PX4	O7-C23-O8	3.13	131.03	123.70	1	3
3	A	639	PX4	O5-C8-C7	3.13	117.42	108.40	7	4
3	A	614	PX4	C8-O5-C9	3.13	105.68	117.12	13	3
3	C	320	PX4	O7-C23-C24	3.13	104.71	111.48	2	6
3	B	352	PX4	O7-C23-C24	3.13	104.71	111.48	9	3
3	A	635	PX4	C7-O7-C23	3.13	110.31	117.80	2	5
3	B	393	PX4	C1-C2-N1	3.13	125.86	115.82	3	1
3	A	602	PX4	C7-O7-C23	3.12	110.32	117.80	7	5
3	A	613	PX4	C8-O5-C9	3.13	105.69	117.12	14	1
3	A	632	PX4	C26-C25-C24	3.12	124.61	113.13	6	1
3	B	314	PX4	O7-C23-O8	3.13	131.01	123.70	10	1
3	C	345	PX4	C5-N1-C4	3.13	100.77	108.98	11	3
3	C	357	PX4	C8-C7-C6	3.12	104.50	111.78	9	1
3	A	645	PX4	C5-N1-C4	3.12	100.77	108.98	14	3
3	C	321	PX4	C5-N1-C4	3.12	100.78	108.98	7	1
3	A	607	PX4	O5-C9-O6	3.12	131.43	123.63	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	609	PX4	O5-C9-C10	3.12	102.32	111.83	14	3
3	A	616	PX4	O7-C23-O8	3.12	131.00	123.70	10	3
3	C	357	PX4	C7-O7-C23	3.12	110.33	117.80	4	2
3	C	357	PX4	O5-C9-C10	3.12	102.32	111.83	4	3
3	C	362	PX4	C1-C2-N1	3.12	125.84	115.82	1	2
3	C	364	PX4	C8-C7-C6	3.12	104.51	111.78	12	2
3	A	624	PX4	O7-C23-O8	3.12	131.00	123.70	3	4
3	A	631	PX4	C4-N1-C3	3.12	117.17	108.98	11	1
3	B	351	PX4	C8-C7-C6	3.12	104.51	111.78	2	3
3	B	374	PX4	O7-C23-C24	3.12	104.73	111.48	15	4
3	C	345	PX4	C7-O7-C23	3.12	110.33	117.80	1	4
3	A	606	PX4	O7-C7-C8	3.12	119.53	108.34	1	3
3	A	633	PX4	O5-C8-C7	3.12	117.38	108.40	12	4
3	A	638	PX4	O7-C23-O8	3.12	130.99	123.70	13	3
3	B	306	PX4	O5-C8-C7	3.12	117.38	108.40	11	2
3	A	604	PX4	O7-C23-C24	3.11	104.74	111.48	9	1
3	B	373	PX4	O7-C23-C24	3.12	104.74	111.48	10	4
3	B	379	PX4	C8-C7-C6	3.11	104.53	111.78	4	4
3	B	398	PX4	O5-C9-O6	3.11	131.42	123.63	8	1
3	C	331	PX4	C8-C7-C6	3.11	104.53	111.78	6	3
3	B	329	PX4	O7-C23-C24	3.11	104.75	111.48	15	4
3	B	360	PX4	O5-C8-C7	3.11	117.36	108.40	8	4
3	C	331	PX4	C5-N1-C4	3.11	117.15	108.98	10	3
3	C	360	PX4	O5-C9-O6	3.11	131.41	123.63	3	2
3	B	358	PX4	O5-C8-C7	3.11	117.36	108.40	7	4
3	B	377	PX4	O5-C9-O6	3.11	131.40	123.63	6	1
3	C	340	PX4	C11-C10-C9	3.11	102.31	113.69	4	2
3	B	378	PX4	O7-C23-C24	3.11	104.76	111.48	4	4
3	A	624	PX4	C7-O7-C23	3.10	110.37	117.80	14	3
3	A	626	PX4	O7-C23-O8	3.10	130.96	123.70	4	1
3	C	318	PX4	O7-C23-O8	3.10	130.96	123.70	15	3
3	C	329	PX4	C7-O7-C23	3.10	110.37	117.80	14	7
3	B	342	PX4	C7-O7-C23	3.10	110.38	117.80	5	4
3	B	363	PX4	C5-N1-C3	3.10	100.84	108.98	7	2
3	B	380	PX4	O5-C8-C7	3.10	117.32	108.40	12	4
3	C	352	PX4	C1-C2-N1	3.10	125.76	115.82	6	1
3	B	388	PX4	C4-N1-C3	3.09	100.85	108.98	11	3
3	A	642	PX4	O7-C23-O8	3.09	130.94	123.70	13	2
3	B	399	PX4	O5-C9-O6	3.09	131.37	123.63	2	2
3	C	352	PX4	O5-C9-C10	3.09	102.40	111.83	8	2
3	B	323	PX4	C5-N1-C3	3.09	100.86	108.98	8	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	353	PX4	C5-N1-C3	3.09	117.09	108.98	4	1
3	B	336	PX4	O7-C23-C24	3.09	104.80	111.48	13	4
3	B	382	PX4	O7-C23-O8	3.09	130.93	123.70	13	2
3	B	385	PX4	O5-C9-O6	3.09	131.35	123.63	7	1
3	B	383	PX4	C8-O5-C9	3.09	105.84	117.12	7	1
3	C	339	PX4	C7-O7-C23	3.08	110.41	117.80	6	6
3	C	367	PX4	O5-C8-C7	3.08	117.29	108.40	2	5
3	A	618	PX4	C1-C2-N1	3.08	125.71	115.82	9	1
3	B	356	PX4	C7-O7-C23	3.08	110.42	117.80	7	3
3	A	606	PX4	O5-C9-C10	3.08	102.45	111.83	11	2
3	B	380	PX4	O5-C9-O6	3.08	131.33	123.63	14	1
3	A	607	PX4	O7-C23-C24	3.08	104.82	111.48	15	3
3	B	342	PX4	O5-C9-O6	3.08	131.33	123.63	9	1
3	B	343	PX4	O5-C9-O6	3.08	131.33	123.63	1	5
3	B	345	PX4	C8-C7-C6	3.08	104.61	111.78	5	3
3	C	313	PX4	C8-C7-C6	3.08	104.61	111.78	14	2
3	C	350	PX4	C7-O7-C23	3.08	110.43	117.80	2	4
3	C	362	PX4	C11-C10-C9	3.08	102.42	113.69	4	2
3	A	601	PX4	C1-C2-N1	3.08	125.69	115.82	10	1
3	B	345	PX4	C4-N1-C3	3.08	100.90	108.98	9	1
3	C	326	PX4	O7-C23-O8	3.07	130.89	123.70	4	2
3	C	335	PX4	O7-C23-C24	3.08	104.83	111.48	13	6
3	B	328	PX4	C7-O7-C23	3.07	110.44	117.80	6	5
3	C	361	PX4	O5-C8-C7	3.07	117.25	108.40	9	5
3	B	335	PX4	O7-C23-O8	3.07	130.89	123.70	7	2
3	B	392	PX4	O7-C23-C24	3.07	104.84	111.48	13	1
3	C	353	PX4	C8-C7-C6	3.07	104.62	111.78	15	2
3	B	357	PX4	C5-N1-C3	3.07	100.92	108.98	8	2
3	B	363	PX4	C7-O7-C23	3.07	110.46	117.80	5	4
3	C	352	PX4	O5-C9-O6	3.07	131.30	123.63	1	3
3	C	360	PX4	O5-C8-C7	3.07	117.24	108.40	6	3
3	B	319	PX4	O7-C23-C24	3.06	104.86	111.48	4	7
3	B	322	PX4	C4-N1-C3	3.06	100.93	108.98	7	1
3	B	347	PX4	O5-C9-C10	3.06	102.50	111.83	5	2
3	C	309	PX4	C7-O7-C23	3.06	110.46	117.80	2	6
3	A	610	PX4	C4-N1-C2	3.06	122.08	109.91	5	2
3	B	341	PX4	C7-O7-C23	3.06	110.47	117.80	12	3
3	B	345	PX4	O5-C9-C10	3.06	102.50	111.83	10	4
3	A	620	PX4	O7-C23-O8	3.06	130.85	123.70	8	3
3	B	301	PX4	O5-C8-C7	3.06	117.22	108.40	7	5
3	B	301	PX4	O7-C23-C24	3.06	104.86	111.48	12	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	334	PX4	O5-C9-O6	3.06	131.28	123.63	11	3
3	C	334	PX4	C5-N1-C3	3.06	100.94	108.98	15	2
3	B	307	PX4	C5-N1-C3	3.06	100.94	108.98	9	1
3	B	316	PX4	C4-N1-C3	3.06	100.94	108.98	5	3
3	B	360	PX4	C25-C24-C23	3.06	102.49	113.69	13	2
3	B	383	PX4	C7-O7-C23	3.06	110.48	117.80	2	2
3	C	323	PX4	C4-N1-C3	3.06	100.94	108.98	12	4
3	C	338	PX4	O7-C23-C24	3.06	104.86	111.48	1	3
3	A	638	PX4	C8-C7-C6	3.06	104.66	111.78	12	3
3	C	302	PX4	C4-N1-C3	3.06	100.95	108.98	10	2
3	B	310	PX4	C11-C10-C9	3.05	102.51	113.69	15	2
3	C	308	PX4	O5-C8-C7	3.05	117.20	108.40	9	2
3	B	382	PX4	O5-C8-C7	3.05	117.19	108.40	14	6
3	B	390	PX4	O7-C23-C24	3.05	104.88	111.48	1	4
3	C	367	PX4	C8-O5-C9	3.05	105.96	117.12	3	2
3	A	638	PX4	O7-C23-C24	3.05	104.88	111.48	15	4
3	B	304	PX4	O5-C8-C7	3.05	117.19	108.40	14	2
3	B	395	PX4	O7-C23-C24	3.05	104.88	111.48	5	4
3	C	368	PX4	C7-O7-C23	3.05	110.49	117.80	1	5
3	B	308	PX4	O7-C23-C24	3.05	104.88	111.48	6	4
3	C	326	PX4	C4-N1-C3	3.05	116.99	108.98	4	2
3	B	375	PX4	O7-C23-C24	3.05	104.89	111.48	11	4
3	B	349	PX4	C7-O7-C23	3.05	110.51	117.80	10	1
3	B	353	PX4	O7-C23-C24	3.05	104.89	111.48	1	2
3	C	353	PX4	O7-C23-O8	3.05	130.83	123.70	7	1
3	A	605	PX4	O5-C8-C7	3.04	117.17	108.40	10	6
3	A	648	PX4	C5-N1-C4	3.04	100.98	108.98	13	1
3	A	603	PX4	O5-C8-C7	3.04	117.17	108.40	3	4
3	A	645	PX4	C1-C2-N1	3.04	125.59	115.82	15	1
3	B	343	PX4	C26-C25-C24	3.04	124.31	113.13	5	2
3	B	394	PX4	C7-O7-C23	3.04	110.52	117.80	14	4
3	A	640	PX4	O5-C8-C7	3.04	117.16	108.40	15	3
3	B	343	PX4	O7-C23-C24	3.04	104.91	111.48	11	2
3	C	304	PX4	C8-C7-C6	3.04	104.70	111.78	3	5
3	C	364	PX4	C26-C25-C24	3.04	124.29	113.13	10	1
3	B	315	PX4	C5-N1-C3	3.04	101.00	108.98	5	1
3	C	360	PX4	C4-N1-C3	3.04	101.00	108.98	11	1
3	A	613	PX4	O7-C23-O8	3.04	130.80	123.70	3	2
3	C	322	PX4	O5-C8-C7	3.04	117.15	108.40	12	4
3	C	356	PX4	C8-O5-C9	3.04	106.02	117.12	14	1
3	A	601	PX4	C5-N1-C4	3.03	101.01	108.98	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	617	PX4	O5-C9-C10	3.03	102.59	111.83	2	4
3	B	382	PX4	O5-C9-C10	3.03	102.59	111.83	10	7
3	C	339	PX4	O5-C8-C7	3.03	117.14	108.40	5	5
3	C	354	PX4	P1-O3-C1	3.03	135.69	121.26	12	2
3	B	334	PX4	C5-N1-C4	3.03	116.93	108.98	8	1
3	B	340	PX4	O7-C23-O8	3.03	130.79	123.70	9	2
3	B	365	PX4	C5-N1-C3	3.03	101.02	108.98	3	1
3	C	342	PX4	C26-C25-C24	3.03	124.25	113.13	2	1
3	A	622	PX4	C8-C7-C6	3.02	118.84	111.78	2	4
3	B	303	PX4	C8-C7-C6	3.02	104.74	111.78	15	5
3	B	325	PX4	C1-C2-N1	3.02	125.53	115.82	11	2
3	C	312	PX4	C4-N1-C3	3.02	101.03	108.98	2	5
3	C	341	PX4	C5-N1-C4	3.02	101.03	108.98	8	3
3	B	326	PX4	O5-C9-C10	3.02	102.62	111.83	2	2
3	B	334	PX4	O7-C23-O8	3.02	130.77	123.70	14	4
3	A	629	PX4	C1-C2-N1	3.02	125.51	115.82	9	1
3	A	640	PX4	C7-O7-C23	3.02	110.57	117.80	8	1
3	B	357	PX4	O5-C9-C10	3.02	102.63	111.83	3	4
3	B	373	PX4	O5-C8-C7	3.02	117.10	108.40	10	4
3	B	335	PX4	O7-C23-C24	3.02	104.95	111.48	11	3
3	B	344	PX4	O5-C8-C7	3.01	117.09	108.40	14	8
3	A	643	PX4	O5-C9-C10	3.01	102.65	111.83	7	4
3	C	363	PX4	C8-C7-C6	3.01	104.76	111.78	5	1
3	C	306	PX4	O5-C8-C7	3.01	117.07	108.40	13	5
3	C	350	PX4	C4-N1-C3	3.01	101.08	108.98	14	2
3	A	604	PX4	C5-N1-C4	3.01	101.08	108.98	13	3
3	A	626	PX4	C27-C26-C25	3.01	129.56	114.37	7	1
3	A	647	PX4	O7-C23-C24	3.01	104.98	111.48	10	2
3	B	363	PX4	C12-C11-C10	3.01	124.17	113.13	4	1
3	B	350	PX4	C8-C7-C6	3.00	104.78	111.78	15	2
3	C	303	PX4	O7-C23-C24	3.00	104.98	111.48	6	4
3	C	320	PX4	O7-C7-C6	3.00	119.12	108.34	1	2
3	C	360	PX4	C26-C25-C24	3.00	102.09	113.13	14	1
3	C	366	PX4	C26-C25-C24	3.00	124.17	113.13	11	1
3	C	306	PX4	C4-N1-C3	3.00	116.87	108.98	2	5
3	B	377	PX4	C8-C7-C6	3.00	104.79	111.78	10	3
3	A	617	PX4	C5-N1-C3	3.00	101.10	108.98	12	2
3	B	316	PX4	C11-C10-C9	3.00	102.70	113.69	4	1
3	B	376	PX4	C26-C25-C24	3.00	102.10	113.13	2	1
3	B	360	PX4	C5-N1-C3	3.00	101.10	108.98	14	1
3	C	312	PX4	C12-C11-C10	3.00	124.14	113.13	4	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	392	PX4	C8-C7-C6	3.00	104.80	111.78	1	2
3	C	328	PX4	C1-C2-N1	3.00	125.44	115.82	15	3
3	A	634	PX4	C5-N1-C4	2.99	101.11	108.98	5	2
3	B	395	PX4	P1-O3-C1	2.99	135.51	121.26	10	1
3	A	602	PX4	O5-C9-C10	2.99	102.71	111.83	13	3
3	A	635	PX4	C8-O5-C9	2.99	106.18	117.12	5	1
3	B	350	PX4	C1-C2-N1	2.99	125.43	115.82	8	2
3	B	357	PX4	O7-C7-C8	2.99	119.08	108.34	4	1
3	C	311	PX4	O7-C23-O8	2.99	130.71	123.70	10	1
3	A	626	PX4	C7-O7-C23	2.99	110.64	117.80	4	4
3	B	330	PX4	C25-C24-C23	2.99	102.74	113.69	12	2
3	C	370	PX4	C1-C2-N1	2.99	125.41	115.82	8	1
3	B	344	PX4	C7-O7-C23	2.98	110.65	117.80	14	4
3	A	633	PX4	C12-C11-C10	2.98	102.17	113.13	12	1
3	B	306	PX4	O7-C23-O8	2.98	130.68	123.70	12	1
3	B	357	PX4	O5-C8-C7	2.98	116.99	108.40	14	5
3	C	359	PX4	C1-C2-N1	2.98	106.25	115.82	5	2
3	C	362	PX4	O5-C9-O6	2.98	131.09	123.63	8	2
3	B	391	PX4	O5-C9-O6	2.98	131.09	123.63	11	3
3	C	321	PX4	O7-C23-O8	2.98	130.68	123.70	14	2
3	B	355	PX4	C5-N1-C4	2.98	101.15	108.98	11	3
3	B	382	PX4	C4-N1-C3	2.98	101.15	108.98	5	1
3	B	325	PX4	C7-O7-C23	2.98	110.67	117.80	8	3
3	B	389	PX4	O5-C8-C7	2.98	116.98	108.40	6	3
3	C	345	PX4	O7-C23-O8	2.98	130.66	123.70	9	3
3	A	612	PX4	O5-C8-C7	2.97	116.97	108.40	13	2
3	B	335	PX4	O5-C9-C10	2.97	102.77	111.83	11	2
3	B	396	PX4	C8-C7-C6	2.97	104.86	111.78	2	2
3	B	387	PX4	O7-C23-O8	2.97	130.65	123.70	5	2
3	B	400	PX4	C5-N1-C3	2.97	116.78	108.98	12	4
3	C	324	PX4	O5-C9-C10	2.97	102.78	111.83	11	4
3	C	345	PX4	C8-C7-C6	2.97	118.71	111.78	4	4
3	A	637	PX4	O7-C23-C24	2.97	105.06	111.48	14	4
3	C	367	PX4	O5-C9-O6	2.97	131.05	123.63	4	3
3	A	622	PX4	O5-C8-C7	2.97	116.95	108.40	14	1
3	B	305	PX4	O5-C9-C10	2.97	102.79	111.83	13	3
3	B	307	PX4	O7-C23-O8	2.97	130.64	123.70	4	2
3	B	349	PX4	C1-C2-N1	2.97	125.35	115.82	14	3
3	A	627	PX4	C4-N1-C3	2.96	101.19	108.98	10	4
3	B	328	PX4	O7-C23-O8	2.96	130.63	123.70	7	2
3	B	387	PX4	C4-N1-C3	2.96	101.19	108.98	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	390	PX4	C5-N1-C4	2.96	101.19	108.98	9	1
3	B	398	PX4	C5-N1-C4	2.96	116.76	108.98	14	1
3	C	313	PX4	C1-C2-N1	2.96	125.33	115.82	1	3
3	B	345	PX4	C26-C25-C24	2.96	102.24	113.13	7	1
3	A	629	PX4	C4-N1-C3	2.96	101.20	108.98	7	1
3	B	337	PX4	O7-C23-O8	2.96	130.63	123.70	2	6
3	B	349	PX4	O5-C8-C7	2.96	116.93	108.40	5	3
3	C	341	PX4	O7-C23-C24	2.96	105.08	111.48	13	4
3	A	638	PX4	O5-C8-C7	2.96	116.92	108.40	4	3
3	B	309	PX4	C12-C11-C10	2.96	123.99	113.13	13	1
3	B	339	PX4	C8-C7-C6	2.96	104.89	111.78	12	1
3	C	368	PX4	O5-C8-C7	2.96	116.92	108.40	8	2
3	A	607	PX4	O7-C23-O8	2.95	130.61	123.70	15	2
3	B	315	PX4	O7-C23-C24	2.95	105.10	111.48	10	7
3	C	332	PX4	O7-C7-C6	2.95	118.92	108.34	5	2
3	A	602	PX4	C5-N1-C4	2.94	116.71	108.98	14	4
3	A	627	PX4	O5-C8-C7	2.94	116.89	108.40	8	4
3	C	304	PX4	O5-C8-C7	2.95	116.89	108.40	5	7
3	C	318	PX4	C7-O7-C23	2.95	110.75	117.80	1	3
3	A	619	PX4	C1-C2-N1	2.94	125.27	115.82	13	2
3	B	305	PX4	C8-C7-C6	2.94	104.92	111.78	6	1
3	B	337	PX4	C8-C7-C6	2.94	104.92	111.78	4	4
3	B	387	PX4	C8-C7-C6	2.94	104.92	111.78	7	3
3	C	334	PX4	C8-C7-C6	2.94	104.92	111.78	13	2
3	B	390	PX4	O5-C9-O6	2.94	130.98	123.63	8	2
3	B	392	PX4	C4-N1-C3	2.94	116.70	108.98	12	1
3	C	322	PX4	O7-C23-O8	2.94	130.58	123.70	3	6
3	C	328	PX4	C8-C7-C6	2.94	118.64	111.78	7	4
3	C	350	PX4	O7-C23-C24	2.94	105.12	111.48	7	3
3	B	345	PX4	C7-O7-C23	2.94	110.76	117.80	14	4
3	C	342	PX4	O5-C9-C10	2.94	102.87	111.83	2	1
3	B	337	PX4	C5-N1-C3	2.94	101.26	108.98	7	2
3	B	386	PX4	C7-O7-C23	2.94	110.77	117.80	2	3
3	C	344	PX4	C4-N1-C3	2.94	116.69	108.98	15	4
3	B	305	PX4	C12-C11-C10	2.94	123.91	113.13	4	1
3	C	306	PX4	C1-C2-N1	2.94	125.24	115.82	11	1
3	A	611	PX4	C12-C11-C10	2.93	102.35	113.13	5	3
3	A	616	PX4	C7-O7-C23	2.93	110.78	117.80	4	3
3	A	648	PX4	C8-C7-C6	2.93	104.95	111.78	5	4
3	B	384	PX4	O5-C8-C7	2.93	116.85	108.40	8	5
3	C	360	PX4	C11-C10-C9	2.93	102.95	113.69	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	635	PX4	O5-C9-O6	2.93	130.96	123.63	3	1
3	B	302	PX4	C12-C11-C10	2.93	123.90	113.13	10	1
3	B	323	PX4	C1-C2-N1	2.93	125.22	115.82	2	2
3	C	341	PX4	O5-C9-C10	2.93	102.91	111.83	2	2
3	C	351	PX4	C7-O7-C23	2.93	124.81	117.80	1	5
3	B	337	PX4	C5-N1-C4	2.93	101.29	108.98	14	3
3	C	329	PX4	O5-C8-C7	2.93	116.83	108.40	2	3
3	B	383	PX4	O3-C1-C2	2.93	123.72	109.65	14	1
3	C	344	PX4	C5-N1-C3	2.93	101.29	108.98	5	3
3	A	644	PX4	C5-N1-C3	2.92	101.30	108.98	10	2
3	B	361	PX4	C11-C10-C9	2.92	102.98	113.69	4	1
3	A	642	PX4	C4-N1-C3	2.92	101.30	108.98	2	2
3	A	615	PX4	O5-C8-C7	2.92	116.81	108.40	4	1
3	B	343	PX4	C7-O7-C23	2.92	110.81	117.80	9	3
3	B	375	PX4	C4-N1-C3	2.92	101.30	108.98	12	2
3	C	354	PX4	C26-C25-C24	2.92	102.39	113.13	4	1
3	B	374	PX4	O5-C8-C7	2.92	116.81	108.40	11	5
3	A	617	PX4	O5-C9-O6	2.92	130.92	123.63	13	4
3	B	397	PX4	O7-C23-O8	2.92	130.52	123.70	3	3
3	C	322	PX4	O5-C9-O6	2.92	130.93	123.63	13	4
3	B	362	PX4	O7-C7-C8	2.91	118.80	108.34	14	1
3	B	384	PX4	C4-N1-C3	2.92	101.32	108.98	5	3
3	A	627	PX4	O5-C9-O6	2.91	130.91	123.63	6	1
3	B	332	PX4	O7-C7-C8	2.91	118.80	108.34	13	1
3	A	644	PX4	C8-C7-C6	2.91	105.00	111.78	2	2
3	B	316	PX4	O7-C23-O8	2.91	130.51	123.70	5	2
3	B	315	PX4	O5-C8-C7	2.91	116.78	108.40	6	3
3	B	328	PX4	C11-C10-C9	2.91	103.03	113.69	5	1
3	B	334	PX4	C8-C7-C6	2.91	105.00	111.78	8	3
3	C	319	PX4	C1-C2-N1	2.91	125.17	115.82	4	3
3	C	353	PX4	C7-O7-C23	2.91	110.83	117.80	6	4
3	B	335	PX4	O7-C7-C6	2.91	97.91	108.34	9	1
3	B	370	PX4	C12-C11-C10	2.91	123.81	113.13	3	2
3	C	309	PX4	C5-N1-C4	2.91	101.34	108.98	3	1
3	A	626	PX4	O5-C9-C10	2.90	102.98	111.83	9	1
3	B	384	PX4	O7-C23-O8	2.90	130.49	123.70	4	2
3	B	392	PX4	C5-N1-C3	2.90	101.35	108.98	9	4
3	B	336	PX4	O5-C9-C10	2.90	102.98	111.83	9	4
3	B	310	PX4	O5-C8-C7	2.90	116.76	108.40	11	3
3	C	345	PX4	C5-N1-C3	2.90	101.36	108.98	8	3
3	C	360	PX4	O7-C7-C6	2.90	118.75	108.34	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	334	PX4	C5-N1-C3	2.90	101.37	108.98	11	1
3	B	331	PX4	O5-C9-C10	2.90	103.01	111.83	7	3
3	B	307	PX4	O7-C23-C24	2.89	105.22	111.48	4	3
3	C	318	PX4	O5-C9-C10	2.89	103.01	111.83	5	1
3	B	380	PX4	O7-C23-C24	2.89	105.23	111.48	7	3
3	C	321	PX4	O7-C23-C24	2.89	105.23	111.48	14	3
3	C	354	PX4	C7-O7-C23	2.89	110.88	117.80	7	3
3	A	635	PX4	C4-N1-C3	2.89	116.57	108.98	4	1
3	C	346	PX4	O7-C23-C24	2.89	105.23	111.48	4	3
3	C	358	PX4	O5-C9-O6	2.89	130.86	123.63	4	2
3	A	634	PX4	O1-P1-O3	2.89	120.66	107.57	9	1
3	A	602	PX4	C12-C11-C10	2.89	102.52	113.13	6	1
3	B	351	PX4	C5-N1-C4	2.89	101.39	108.98	8	2
3	B	363	PX4	C8-C7-C6	2.89	105.06	111.78	2	5
3	C	354	PX4	C8-O5-C9	2.88	106.58	117.12	4	1
3	B	353	PX4	O5-C9-O6	2.88	130.84	123.63	8	2
3	B	365	PX4	C1-C2-N1	2.88	125.07	115.82	13	1
3	B	396	PX4	P1-O4-C6	2.88	137.86	121.35	7	1
3	C	325	PX4	O7-C7-C6	2.88	118.69	108.34	10	3
3	B	359	PX4	O5-C9-C10	2.88	103.05	111.83	7	2
3	C	347	PX4	C8-C7-C6	2.88	105.07	111.78	9	1
3	A	636	PX4	C5-N1-C3	2.88	101.41	108.98	11	2
3	C	339	PX4	O5-C9-O6	2.88	130.83	123.63	6	1
3	A	623	PX4	O1-P1-O2	2.88	125.83	112.44	11	1
3	C	325	PX4	O5-C9-O6	2.88	130.83	123.63	5	2
3	A	614	PX4	C8-C7-C6	2.88	105.08	111.78	12	3
3	B	371	PX4	O5-C8-C7	2.88	116.69	108.40	15	2
3	C	366	PX4	C7-O7-C23	2.88	110.91	117.80	2	1
3	A	605	PX4	C8-C7-C6	2.87	105.09	111.78	9	3
3	A	618	PX4	O5-C9-O6	2.87	130.81	123.63	10	1
3	B	302	PX4	O7-C23-C24	2.87	105.27	111.48	12	4
3	C	305	PX4	O7-C7-C8	2.87	118.64	108.34	15	2
3	A	621	PX4	C1-C2-N1	2.87	125.03	115.82	5	1
3	B	345	PX4	O7-C23-O8	2.87	130.41	123.70	3	5
3	A	629	PX4	O7-C7-C6	2.87	118.63	108.34	13	1
3	A	632	PX4	C8-C7-C6	2.87	105.10	111.78	12	2
3	B	388	PX4	O7-C23-O8	2.87	130.41	123.70	14	2
3	A	622	PX4	O7-C7-C6	2.86	118.61	108.34	3	2
3	B	352	PX4	C8-C7-C6	2.86	105.11	111.78	5	5
3	B	378	PX4	O7-C7-C8	2.86	118.62	108.34	9	2
3	B	394	PX4	O7-C7-C8	2.86	118.62	108.34	14	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	636	PX4	O5-C8-C7	2.86	116.64	108.40	1	5
3	B	310	PX4	O5-C9-O6	2.86	130.79	123.63	8	1
3	B	366	PX4	O5-C9-C10	2.86	103.11	111.83	5	2
3	B	302	PX4	C8-C7-C6	2.86	105.12	111.78	11	4
3	B	313	PX4	O5-C8-C7	2.86	116.64	108.40	1	4
3	B	396	PX4	C1-C2-N1	2.86	125.00	115.82	10	2
3	A	613	PX4	C7-O7-C23	2.86	110.96	117.80	14	5
3	A	624	PX4	O7-C23-C24	2.86	105.30	111.48	11	4
3	B	331	PX4	C1-C2-N1	2.86	124.99	115.82	8	1
3	B	339	PX4	O7-C7-C8	2.86	118.59	108.34	1	2
3	B	379	PX4	C5-N1-C4	2.86	101.47	108.98	11	4
3	C	304	PX4	C5-N1-C3	2.86	101.47	108.98	2	2
3	C	306	PX4	C8-C7-C6	2.86	118.44	111.78	13	5
3	B	327	PX4	C4-N1-C3	2.85	116.47	108.98	11	1
3	C	366	PX4	O5-C9-C10	2.85	103.14	111.83	4	1
3	A	614	PX4	O7-C7-C6	2.85	118.57	108.34	12	4
3	A	632	PX4	C7-O7-C23	2.85	124.62	117.80	11	3
3	B	361	PX4	O5-C9-O6	2.85	130.76	123.63	8	2
3	A	627	PX4	O5-C9-C10	2.85	103.15	111.83	12	2
3	A	630	PX4	C7-O7-C23	2.85	110.98	117.80	14	3
3	C	311	PX4	O7-C23-C24	2.85	105.32	111.48	6	2
3	C	331	PX4	O5-C9-C10	2.85	103.16	111.83	3	3
3	A	621	PX4	C5-N1-C4	2.84	101.51	108.98	5	2
3	A	623	PX4	C3-N1-C2	2.84	98.61	109.91	9	1
3	A	637	PX4	O5-C9-O6	2.84	130.74	123.63	6	1
3	A	629	PX4	O7-C23-C24	2.84	105.33	111.48	12	2
3	A	610	PX4	O7-C23-O8	2.84	130.35	123.70	5	2
3	A	618	PX4	O5-C8-C7	2.84	116.59	108.40	6	5
3	B	338	PX4	O7-C23-O8	2.84	130.34	123.70	1	2
3	B	322	PX4	O7-C7-C8	2.84	118.53	108.34	2	4
3	A	602	PX4	C25-C24-C23	2.84	103.30	113.69	6	2
3	B	341	PX4	C8-O5-C9	2.84	106.75	117.12	11	1
3	C	348	PX4	O7-C23-O8	2.84	130.34	123.70	15	4
3	B	351	PX4	C4-N1-C3	2.83	116.42	108.98	6	2
3	A	607	PX4	O5-C8-C7	2.83	116.56	108.40	14	1
3	A	625	PX4	O7-C23-C24	2.83	105.36	111.48	8	3
3	B	332	PX4	O7-C23-O8	2.83	130.32	123.70	5	2
3	A	618	PX4	O5-C9-C10	2.83	103.21	111.83	1	1
3	A	630	PX4	C1-C2-N1	2.83	124.90	115.82	1	2
3	C	338	PX4	C5-N1-C3	2.83	101.55	108.98	14	1
3	A	634	PX4	C7-O7-C23	2.82	111.03	117.80	9	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	644	PX4	O7-C23-C24	2.82	105.37	111.48	14	2
3	A	617	PX4	O7-C7-C6	2.82	118.47	108.34	6	1
3	A	647	PX4	C25-C24-C23	2.82	124.04	113.69	13	2
3	B	326	PX4	C5-N1-C3	2.82	101.56	108.98	14	1
3	B	400	PX4	O7-C23-C24	2.82	105.37	111.48	2	5
3	C	335	PX4	C8-O5-C9	2.82	106.80	117.12	6	1
3	C	351	PX4	C8-O5-C9	2.82	106.80	117.12	9	3
3	B	323	PX4	C25-C24-C23	2.82	124.03	113.69	8	1
3	B	335	PX4	C8-O5-C9	2.82	106.81	117.12	14	3
3	B	362	PX4	O6-C9-C10	2.82	134.82	123.78	9	1
3	B	373	PX4	O7-C7-C8	2.82	118.46	108.34	9	4
3	B	388	PX4	C7-O7-C23	2.82	111.05	117.80	8	3
3	B	325	PX4	C8-C7-C6	2.82	105.21	111.78	2	5
3	B	338	PX4	O5-C8-C7	2.82	116.52	108.40	12	2
3	C	353	PX4	C30-C29-C28	2.82	100.12	114.37	15	1
3	C	302	PX4	C8-O5-C9	2.82	106.82	117.12	5	3
3	C	356	PX4	O7-C23-O8	2.82	130.29	123.70	13	4
3	A	643	PX4	O7-C23-O8	2.82	130.29	123.70	9	2
3	B	309	PX4	C1-C2-N1	2.82	124.86	115.82	9	3
3	B	328	PX4	C5-N1-C3	2.82	101.58	108.98	2	2
3	B	332	PX4	O5-C9-C10	2.82	103.25	111.83	7	1
3	C	349	PX4	O5-C8-C7	2.82	116.52	108.40	4	3
3	C	356	PX4	C5-N1-C4	2.82	116.37	108.98	11	3
3	B	365	PX4	C11-C10-C9	2.81	124.01	113.69	3	2
3	B	346	PX4	C26-C25-C24	2.81	102.79	113.13	2	2
3	C	369	PX4	O7-C23-O8	2.81	130.28	123.70	10	1
3	A	624	PX4	C5-N1-C4	2.81	116.36	108.98	13	3
3	C	316	PX4	C5-N1-C3	2.81	101.59	108.98	7	2
3	B	302	PX4	C5-N1-C4	2.81	116.36	108.98	8	1
3	C	329	PX4	O7-C23-C24	2.81	105.40	111.48	10	3
3	C	344	PX4	O7-C23-C24	2.81	105.40	111.48	10	5
3	B	336	PX4	O5-C9-O6	2.81	130.65	123.63	6	2
3	B	360	PX4	C4-N1-C3	2.81	116.35	108.98	3	4
3	C	360	PX4	O7-C23-O8	2.81	130.27	123.70	9	4
3	B	379	PX4	O7-C23-O8	2.81	130.27	123.70	8	1
3	B	397	PX4	C1-C2-N1	2.81	124.83	115.82	6	1
3	C	319	PX4	O7-C7-C8	2.81	118.42	108.34	10	2
3	A	613	PX4	C5-N1-C3	2.81	116.35	108.98	12	3
3	B	362	PX4	O5-C8-C7	2.81	116.49	108.40	3	4
3	C	345	PX4	O7-C7-C6	2.81	118.42	108.34	9	1
3	A	626	PX4	C5-N1-C4	2.81	116.34	108.98	8	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	633	PX4	C5-N1-C3	2.80	101.61	108.98	4	4
3	C	367	PX4	C4-N1-C3	2.81	116.34	108.98	2	1
3	C	369	PX4	C8-O5-C9	2.81	106.86	117.12	1	1
3	B	364	PX4	C26-C25-C24	2.80	123.43	113.13	13	2
3	B	366	PX4	O5-C9-O6	2.80	130.64	123.63	10	1
3	B	380	PX4	C7-O7-C23	2.80	111.08	117.80	9	2
3	B	388	PX4	C8-O5-C9	2.80	106.87	117.12	11	1
3	C	308	PX4	C26-C25-C24	2.80	123.42	113.13	11	1
3	B	301	PX4	O5-C9-O6	2.80	130.63	123.63	6	4
3	B	327	PX4	C8-C7-C6	2.80	105.26	111.78	9	2
3	B	329	PX4	C5-N1-C3	2.80	116.33	108.98	9	2
3	C	307	PX4	O7-C23-C24	2.80	105.42	111.48	4	5
3	A	630	PX4	O7-C23-O8	2.80	130.25	123.70	7	3
3	A	633	PX4	C1-C2-N1	2.80	124.80	115.82	2	2
3	B	343	PX4	O5-C9-C10	2.80	103.31	111.83	3	2
3	B	349	PX4	O7-C23-C24	2.80	105.43	111.48	9	7
3	B	378	PX4	C7-O7-C23	2.80	111.10	117.80	5	6
3	B	325	PX4	C5-N1-C4	2.79	101.64	108.98	7	1
3	B	338	PX4	O1-P1-O2	2.80	125.45	112.44	3	1
3	C	370	PX4	C5-N1-C4	2.80	116.32	108.98	3	4
3	B	367	PX4	O5-C9-C10	2.79	103.32	111.83	11	4
3	A	638	PX4	C7-O7-C23	2.79	124.48	117.80	3	5
3	A	639	PX4	C5-N1-C4	2.79	116.31	108.98	15	1
3	A	641	PX4	C8-C7-C6	2.79	118.29	111.78	10	3
3	A	626	PX4	C1-C2-N1	2.79	124.77	115.82	4	2
3	B	314	PX4	O7-C7-C8	2.79	118.35	108.34	14	1
3	B	338	PX4	C7-O7-C23	2.79	111.12	117.80	12	2
3	B	320	PX4	C4-N1-C3	2.79	101.65	108.98	14	2
3	B	342	PX4	C8-C7-C6	2.79	105.28	111.78	2	2
3	C	315	PX4	O5-C9-C10	2.79	103.33	111.83	9	2
3	B	382	PX4	C8-C7-C6	2.79	105.29	111.78	15	2
3	B	328	PX4	C4-N1-C3	2.78	101.66	108.98	4	1
3	C	356	PX4	O7-C23-C24	2.78	105.46	111.48	15	4
3	C	364	PX4	O5-C9-O6	2.78	130.59	123.63	11	3
3	B	324	PX4	C5-N1-C4	2.78	101.67	108.98	12	3
3	B	396	PX4	C5-N1-C3	2.78	101.67	108.98	14	1
3	B	334	PX4	C1-C2-N1	2.78	124.74	115.82	5	2
3	B	350	PX4	O5-C9-O6	2.78	130.58	123.63	15	2
3	B	370	PX4	C8-O5-C9	2.78	127.28	117.12	10	1
3	C	302	PX4	O7-C7-C8	2.78	118.31	108.34	4	1
3	C	335	PX4	C5-N1-C3	2.78	101.68	108.98	11	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	326	PX4	C5-N1-C4	2.78	116.27	108.98	15	3
3	B	345	PX4	O7-C23-C24	2.78	117.49	111.48	15	7
3	B	393	PX4	P1-O3-C1	2.78	134.48	121.26	13	2
3	C	306	PX4	O5-C9-O6	2.78	130.57	123.63	12	3
3	C	312	PX4	C8-C7-C6	2.78	105.31	111.78	9	3
3	A	631	PX4	O7-C23-C24	2.77	105.48	111.48	3	3
3	B	308	PX4	O7-C23-O8	2.77	130.19	123.70	9	3
3	A	602	PX4	C1-C2-N1	2.77	124.72	115.82	13	2
3	B	349	PX4	C8-O5-C9	2.77	106.99	117.12	12	1
3	B	355	PX4	C8-O5-C9	2.77	106.99	117.12	4	2
3	B	372	PX4	C5-N1-C3	2.77	101.69	108.98	4	2
3	B	365	PX4	O7-C7-C6	2.77	118.28	108.34	3	2
3	C	339	PX4	C1-C2-N1	2.77	124.72	115.82	1	2
3	C	325	PX4	C1-C2-N1	2.77	124.71	115.82	3	2
3	B	372	PX4	O5-C9-C10	2.77	103.39	111.83	2	4
3	B	393	PX4	O5-C8-C7	2.77	116.38	108.40	5	3
3	A	645	PX4	O7-C23-C24	2.77	105.49	111.48	14	1
3	B	346	PX4	O1-P1-O2	2.77	125.32	112.44	2	1
3	C	308	PX4	C1-C2-N1	2.77	124.70	115.82	12	2
3	C	336	PX4	C5-N1-C3	2.77	101.71	108.98	7	1
3	C	312	PX4	C1-C2-N1	2.77	124.70	115.82	2	3
3	A	628	PX4	C7-O7-C23	2.76	111.18	117.80	9	4
3	C	343	PX4	C4-N1-C2	2.77	120.90	109.91	3	1
3	B	366	PX4	O1-P1-O2	2.76	125.31	112.44	2	1
3	A	611	PX4	C5-N1-C4	2.76	116.23	108.98	11	1
3	B	376	PX4	O5-C9-O6	2.76	130.54	123.63	13	1
3	C	313	PX4	C4-N1-C3	2.76	101.72	108.98	6	1
3	C	339	PX4	O7-C23-O8	2.76	130.17	123.70	11	3
3	C	323	PX4	O5-C9-C10	2.76	103.41	111.83	11	2
3	A	618	PX4	C5-N1-C4	2.76	101.72	108.98	6	2
3	A	607	PX4	P1-O4-C6	2.76	105.54	121.35	3	1
3	A	612	PX4	C8-O5-C9	2.76	127.20	117.12	1	1
3	A	635	PX4	C8-C7-C6	2.76	105.35	111.78	10	3
3	C	302	PX4	O5-C9-C10	2.76	103.42	111.83	11	2
3	B	304	PX4	C26-C25-C24	2.76	123.26	113.13	7	2
3	C	366	PX4	O5-C9-O6	2.76	130.53	123.63	14	3
3	B	320	PX4	C5-N1-C3	2.76	101.74	108.98	6	2
3	A	625	PX4	C8-O5-C9	2.75	107.06	117.12	11	4
3	B	312	PX4	C8-O5-C9	2.75	127.18	117.12	11	1
3	B	330	PX4	C5-N1-C4	2.75	101.74	108.98	5	3
3	C	366	PX4	C8-C7-C6	2.75	118.20	111.78	12	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	303	PX4	O5-C9-C10	2.75	103.44	111.83	7	4
3	C	323	PX4	O7-C23-O8	2.75	130.14	123.70	9	2
3	C	344	PX4	O5-C8-C7	2.75	116.33	108.40	4	4
3	B	386	PX4	C4-N1-C3	2.75	101.75	108.98	11	3
3	C	342	PX4	C5-N1-C4	2.75	101.75	108.98	4	2
3	A	643	PX4	C8-O5-C9	2.75	107.08	117.12	2	2
3	B	303	PX4	C1-C2-N1	2.75	124.64	115.82	5	1
3	C	303	PX4	C7-O7-C23	2.75	111.22	117.80	4	7
3	A	625	PX4	O5-C9-C10	2.75	103.46	111.83	14	3
3	A	631	PX4	C8-C7-C6	2.75	105.38	111.78	6	6
3	B	336	PX4	O3-C1-C2	2.75	122.86	109.65	14	1
3	B	367	PX4	O7-C23-O8	2.75	130.13	123.70	7	2
3	B	388	PX4	C3-N1-C2	2.75	120.82	109.91	7	1
3	B	398	PX4	P1-O4-C6	2.75	137.09	121.35	12	1
3	C	329	PX4	O5-C9-O6	2.75	130.50	123.63	15	2
3	B	368	PX4	O5-C9-C10	2.74	103.47	111.83	15	3
3	B	394	PX4	O6-C9-C10	2.75	134.52	123.78	11	1
3	C	308	PX4	O5-C9-C10	2.75	103.46	111.83	8	2
3	C	338	PX4	O7-C7-C8	2.75	118.20	108.34	11	2
3	B	385	PX4	O7-C23-O8	2.74	130.12	123.70	3	3
3	A	620	PX4	C5-N1-C4	2.74	116.18	108.98	6	2
3	A	623	PX4	O5-C8-C7	2.74	116.30	108.40	14	4
3	B	333	PX4	C1-C2-N1	2.74	124.62	115.82	3	5
3	B	347	PX4	O7-C7-C6	2.74	118.18	108.34	1	1
3	B	301	PX4	O5-C9-C10	2.74	103.48	111.83	2	1
3	B	399	PX4	C8-C7-C6	2.74	105.39	111.78	11	2
3	C	305	PX4	C1-C2-N1	2.74	124.62	115.82	5	2
3	C	334	PX4	O7-C23-O8	2.74	130.11	123.70	11	2
3	C	336	PX4	C5-N1-C4	2.74	101.77	108.98	8	2
3	A	616	PX4	C5-N1-C4	2.74	101.78	108.98	6	4
3	A	629	PX4	O7-C23-O8	2.74	130.11	123.70	4	2
3	B	341	PX4	O7-C23-O8	2.74	130.11	123.70	8	1
3	B	350	PX4	O5-C9-C10	2.74	103.48	111.83	13	4
3	B	368	PX4	C5-N1-C4	2.74	116.17	108.98	3	2
3	C	306	PX4	C12-C11-C10	2.74	123.19	113.13	2	1
3	B	335	PX4	C8-C7-C6	2.74	105.40	111.78	3	3
3	C	330	PX4	C5-N1-C4	2.74	116.16	108.98	13	3
3	A	640	PX4	O7-C7-C8	2.73	118.15	108.34	4	3
3	A	603	PX4	C26-C25-C24	2.73	103.08	113.13	8	1
3	A	622	PX4	C25-C24-C23	2.73	123.71	113.69	14	1
3	B	330	PX4	C8-C7-C6	2.73	118.16	111.78	3	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	354	PX4	C5-N1-C4	2.74	101.79	108.98	14	2
3	B	305	PX4	O5-C8-C7	2.73	116.28	108.40	1	3
3	B	378	PX4	C5-N1-C3	2.73	101.80	108.98	1	3
3	B	394	PX4	C5-N1-C3	2.73	101.80	108.98	5	1
3	A	602	PX4	O7-C23-O8	2.73	130.09	123.70	10	3
3	C	351	PX4	O7-C23-O8	2.73	130.09	123.70	1	3
3	A	636	PX4	C8-C7-C6	2.73	118.15	111.78	1	2
3	C	334	PX4	C7-O7-C23	2.73	111.26	117.80	6	3
3	B	313	PX4	C8-O5-C9	2.73	107.15	117.12	14	1
3	B	376	PX4	O7-C23-O8	2.73	130.08	123.70	10	2
3	A	631	PX4	O7-C7-C8	2.73	118.12	108.34	5	4
3	B	318	PX4	O6-C9-C10	2.73	134.44	123.78	12	1
3	C	345	PX4	C4-N1-C3	2.73	101.81	108.98	4	3
3	A	615	PX4	C12-C11-C10	2.72	103.12	113.13	14	3
3	A	647	PX4	C5-N1-C4	2.72	101.82	108.98	14	2
3	C	362	PX4	C4-N1-C3	2.72	116.13	108.98	15	4
3	B	312	PX4	O7-C23-C24	2.72	105.59	111.48	4	3
3	B	314	PX4	O5-C9-O6	2.72	130.44	123.63	9	1
3	C	355	PX4	C25-C24-C23	2.72	103.71	113.69	14	2
3	A	630	PX4	O5-C9-C10	2.72	103.54	111.83	3	4
3	A	602	PX4	C8-C7-C6	2.72	105.44	111.78	12	1
3	A	609	PX4	O7-C23-C24	2.72	105.60	111.48	11	2
3	A	613	PX4	C5-N1-C4	2.72	116.12	108.98	10	2
3	A	646	PX4	C7-O7-C23	2.72	111.29	117.80	10	2
3	A	647	PX4	C1-C2-N1	2.72	124.55	115.82	15	1
3	B	308	PX4	O5-C9-C10	2.72	103.54	111.83	3	3
3	B	354	PX4	C4-N1-C3	2.72	116.12	108.98	4	2
3	C	315	PX4	C4-N1-C3	2.72	101.83	108.98	11	1
3	B	342	PX4	C5-N1-C4	2.72	101.83	108.98	9	2
3	C	302	PX4	C15-C14-C13	2.72	100.62	114.37	1	1
3	C	319	PX4	C7-O7-C23	2.72	111.29	117.80	13	6
3	C	324	PX4	C25-C24-C23	2.72	123.66	113.69	14	1
3	B	304	PX4	O7-C23-C24	2.72	105.61	111.48	12	4
3	B	332	PX4	O5-C8-C7	2.72	116.23	108.40	11	4
3	B	389	PX4	C8-C7-C6	2.72	118.12	111.78	10	2
3	C	318	PX4	C8-C7-C6	2.72	105.45	111.78	6	3
3	C	330	PX4	O5-C9-O6	2.72	130.42	123.63	12	1
3	C	336	PX4	O5-C8-C7	2.72	116.23	108.40	6	1
3	C	359	PX4	C5-N1-C4	2.72	101.84	108.98	3	3
3	A	601	PX4	O5-C9-C10	2.71	103.56	111.83	4	1
3	C	353	PX4	O5-C8-C7	2.71	116.22	108.40	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	621	PX4	O5-C9-O6	2.71	130.41	123.63	3	3
3	A	642	PX4	O5-C8-C7	2.71	116.22	108.40	13	2
3	A	646	PX4	O7-C7-C8	2.71	118.08	108.34	9	2
3	B	331	PX4	C5-N1-C4	2.71	101.85	108.98	8	3
3	B	338	PX4	C11-C10-C9	2.71	123.63	113.69	3	1
3	B	392	PX4	O5-C9-C10	2.71	103.56	111.83	14	1
3	A	638	PX4	C25-C24-C23	2.71	103.76	113.69	3	1
3	B	357	PX4	O3-C1-C2	2.71	122.70	109.65	13	1
3	B	367	PX4	C25-C24-C23	2.71	103.76	113.69	15	1
3	B	369	PX4	O5-C9-C10	2.71	103.57	111.83	13	3
3	B	386	PX4	O5-C9-C10	2.71	103.57	111.83	14	2
3	C	306	PX4	C7-O7-C23	2.71	111.31	117.80	13	2
3	A	625	PX4	C31-C30-C29	2.71	100.67	114.37	8	1
3	C	340	PX4	C8-C7-C6	2.71	118.10	111.78	14	3
3	C	369	PX4	O7-C7-C6	2.71	118.06	108.34	15	1
3	A	615	PX4	O7-C7-C8	2.71	118.06	108.34	4	2
3	A	617	PX4	O7-C23-O8	2.71	130.04	123.70	1	1
3	B	358	PX4	O7-C23-O8	2.71	130.03	123.70	1	3
3	B	397	PX4	O5-C9-C10	2.71	103.58	111.83	5	2
3	C	317	PX4	O7-C23-O8	2.71	130.03	123.70	15	3
3	A	606	PX4	C7-O7-C23	2.71	111.32	117.80	12	4
3	A	630	PX4	O3-P1-O2	2.71	119.66	108.94	3	1
3	B	304	PX4	P1-O3-C1	2.71	108.38	121.26	2	1
3	C	316	PX4	O7-C23-O8	2.71	130.03	123.70	3	2
3	A	632	PX4	O5-C9-O6	2.70	130.39	123.63	9	3
3	A	628	PX4	O6-C9-C10	2.70	134.35	123.78	13	1
3	A	629	PX4	C5-N1-C3	2.70	116.08	108.98	14	1
3	B	352	PX4	O3-C1-C2	2.70	122.66	109.65	7	1
3	C	314	PX4	C12-C11-C10	2.70	103.20	113.13	14	1
3	A	641	PX4	C18-C17-C16	2.70	100.72	114.37	11	1
3	B	357	PX4	O7-C7-C6	2.70	118.03	108.34	10	1
3	B	389	PX4	C7-O7-C23	2.70	111.33	117.80	6	3
3	C	317	PX4	C5-N1-C4	2.70	116.07	108.98	14	3
3	A	618	PX4	O7-C23-O8	2.70	130.01	123.70	15	1
3	B	398	PX4	C5-N1-C3	2.70	101.89	108.98	4	2
3	C	333	PX4	C8-C7-C6	2.70	105.49	111.78	1	4
3	C	341	PX4	C5-N1-C3	2.70	101.88	108.98	15	1
3	A	629	PX4	O5-C8-C7	2.70	116.18	108.40	7	6
3	A	617	PX4	C5-N1-C4	2.70	116.06	108.98	6	2
3	C	350	PX4	C1-C2-N1	2.70	124.48	115.82	2	2
3	C	301	PX4	C5-N1-C3	2.70	101.89	108.98	6	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	323	PX4	O5-C9-O6	2.70	130.37	123.63	9	2
3	C	337	PX4	C8-C7-C6	2.70	118.07	111.78	1	1
3	C	356	PX4	C1-C2-N1	2.70	124.47	115.82	10	2
3	C	345	PX4	O5-C9-C10	2.69	103.62	111.83	4	1
3	A	610	PX4	C8-C7-C6	2.69	105.50	111.78	6	3
3	C	318	PX4	O5-C8-C7	2.69	116.16	108.40	2	5
3	C	320	PX4	C5-N1-C4	2.69	116.05	108.98	5	4
3	C	341	PX4	C4-N1-C3	2.69	116.05	108.98	5	3
3	C	365	PX4	C4-N1-C3	2.69	101.90	108.98	7	3
3	B	304	PX4	O7-C7-C8	2.69	118.00	108.34	10	3
3	A	641	PX4	O7-C7-C8	2.69	118.00	108.34	13	2
3	B	318	PX4	C26-C25-C24	2.69	103.24	113.13	7	1
3	B	377	PX4	O7-C7-C8	2.69	118.00	108.34	7	4
3	B	389	PX4	C17-C16-C15	2.69	100.76	114.37	10	1
3	B	372	PX4	O7-C7-C6	2.69	118.00	108.34	7	1
3	B	399	PX4	C25-C24-C23	2.69	123.56	113.69	6	1
3	B	336	PX4	O7-C23-O8	2.69	129.99	123.70	13	2
3	B	379	PX4	O7-C7-C6	2.69	117.99	108.34	13	1
3	B	356	PX4	O5-C9-C10	2.69	103.64	111.83	13	3
3	B	392	PX4	O7-C23-O8	2.69	129.99	123.70	15	3
3	C	309	PX4	C34-C33-C32	2.69	100.78	114.37	7	1
3	C	319	PX4	O5-C9-O6	2.69	130.35	123.63	12	2
3	B	328	PX4	O7-C7-C8	2.69	117.98	108.34	4	1
3	B	370	PX4	C5-N1-C3	2.69	116.03	108.98	3	2
3	B	385	PX4	O7-C23-C24	2.69	105.67	111.48	8	4
3	C	303	PX4	C5-N1-C4	2.69	116.03	108.98	6	1
3	B	348	PX4	O5-C9-C10	2.68	103.65	111.83	9	3
3	B	378	PX4	O5-C9-O6	2.68	130.34	123.63	14	3
3	B	381	PX4	O5-C9-O6	2.68	130.34	123.63	9	2
3	B	398	PX4	C26-C25-C24	2.68	103.27	113.13	6	2
3	C	325	PX4	C25-C24-C23	2.68	103.86	113.69	8	2
3	C	328	PX4	O5-C9-O6	2.68	130.34	123.63	4	1
3	A	606	PX4	C8-C7-C6	2.68	118.04	111.78	13	4
3	A	610	PX4	C5-N1-C3	2.68	101.93	108.98	15	3
3	A	644	PX4	O7-C7-C8	2.68	117.97	108.34	7	3
3	C	369	PX4	C5-N1-C4	2.68	101.93	108.98	12	2
3	B	375	PX4	O5-C8-C7	2.68	116.12	108.40	3	4
3	C	315	PX4	C25-C24-C23	2.68	103.87	113.69	12	2
3	C	339	PX4	C12-C11-C10	2.68	103.27	113.13	7	2
3	C	361	PX4	P1-O3-C1	2.68	134.03	121.26	13	1
3	A	611	PX4	C7-O7-C23	2.68	111.38	117.80	13	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	628	PX4	O7-C7-C8	2.68	117.96	108.34	1	3
3	B	366	PX4	C5-N1-C4	2.68	101.94	108.98	5	1
3	B	379	PX4	C8-O5-C9	2.68	107.33	117.12	7	1
3	B	398	PX4	O5-C8-C7	2.68	116.12	108.40	8	3
3	C	340	PX4	O5-C9-C10	2.68	103.67	111.83	9	2
3	B	353	PX4	O7-C7-C8	2.68	117.95	108.34	11	3
3	C	330	PX4	O5-C9-C10	2.68	103.67	111.83	14	3
3	B	385	PX4	C5-N1-C4	2.68	101.94	108.98	12	2
3	C	347	PX4	O5-C9-O6	2.68	130.32	123.63	2	1
3	C	347	PX4	O5-C8-C7	2.68	116.11	108.40	3	2
3	C	341	PX4	O5-C9-O6	2.68	130.32	123.63	10	1
3	C	358	PX4	C5-N1-C3	2.68	101.94	108.98	2	1
3	B	350	PX4	O7-C7-C6	2.68	117.94	108.34	6	1
3	B	379	PX4	C5-N1-C3	2.68	116.00	108.98	7	2
3	A	601	PX4	C26-C25-C24	2.67	122.95	113.13	10	1
3	A	612	PX4	O7-C7-C6	2.67	117.93	108.34	4	3
3	C	314	PX4	C8-C7-C6	2.67	105.55	111.78	7	5
3	C	315	PX4	C8-C7-C6	2.67	118.02	111.78	10	2
3	C	321	PX4	C4-N1-C3	2.67	101.95	108.98	8	3
3	B	307	PX4	C7-O7-C23	2.67	111.40	117.80	9	1
3	B	322	PX4	C8-C7-C6	2.67	105.56	111.78	2	1
3	B	340	PX4	C5-N1-C4	2.67	116.00	108.98	7	2
3	A	624	PX4	C8-O5-C9	2.67	107.36	117.12	8	1
3	A	626	PX4	C5-N1-C3	2.67	101.97	108.98	3	5
3	A	632	PX4	C1-C2-N1	2.67	124.39	115.82	9	1
3	B	324	PX4	O5-C9-O6	2.67	130.30	123.63	4	1
3	B	346	PX4	C5-N1-C4	2.67	101.97	108.98	5	2
3	C	339	PX4	C8-C7-C6	2.67	105.57	111.78	8	2
3	C	344	PX4	C7-O7-C23	2.67	111.41	117.80	12	2
3	B	304	PX4	C5-N1-C3	2.67	115.98	108.98	13	2
3	A	622	PX4	C12-C11-C10	2.67	122.92	113.13	1	1
3	A	639	PX4	O5-C9-C10	2.67	103.71	111.83	15	2
3	B	329	PX4	O5-C8-C7	2.67	116.08	108.40	10	1
3	C	357	PX4	O5-C9-O6	2.67	130.30	123.63	6	4
3	B	310	PX4	C4-N1-C3	2.66	115.98	108.98	12	2
3	C	357	PX4	C5-N1-C3	2.67	101.97	108.98	12	2
3	A	602	PX4	C8-O5-C9	2.66	107.38	117.12	2	1
3	A	610	PX4	C25-C24-C23	2.66	123.45	113.69	6	2
3	B	351	PX4	C8-O5-C9	2.66	107.38	117.12	1	3
3	B	345	PX4	C1-C2-N1	2.66	124.37	115.82	11	1
3	B	346	PX4	O5-C9-C10	2.66	103.71	111.83	15	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	368	PX4	O7-C7-C8	2.66	117.90	108.34	6	1
3	C	323	PX4	C5-N1-C4	2.66	115.97	108.98	10	2
3	B	379	PX4	C4-N1-C3	2.66	101.99	108.98	7	2
3	B	395	PX4	C8-O5-C9	2.66	107.40	117.12	11	1
3	C	311	PX4	C8-C7-C6	2.66	105.58	111.78	4	1
3	B	323	PX4	C7-O7-C23	2.66	111.43	117.80	7	2
3	B	317	PX4	O7-C23-O8	2.66	129.92	123.70	3	2
3	B	303	PX4	O7-C23-O8	2.66	129.91	123.70	11	4
3	B	359	PX4	O7-C7-C6	2.66	117.87	108.34	9	1
3	C	314	PX4	O7-C23-C24	2.66	105.73	111.48	5	3
3	C	321	PX4	O5-C9-C10	2.66	103.73	111.83	12	3
3	B	316	PX4	O5-C8-C7	2.65	116.05	108.40	2	3
3	B	318	PX4	C8-C7-C6	2.65	117.97	111.78	4	4
3	B	333	PX4	O5-C9-O6	2.65	130.27	123.63	4	2
3	B	338	PX4	O5-C9-C10	2.65	103.75	111.83	2	2
3	C	324	PX4	O7-C7-C8	2.65	117.86	108.34	9	1
3	C	370	PX4	C5-N1-C2	2.65	120.46	109.91	1	1
3	A	636	PX4	C1-C2-N1	2.65	124.33	115.82	12	3
3	A	627	PX4	C5-N1-C4	2.65	102.02	108.98	5	1
3	A	639	PX4	O7-C7-C8	2.65	117.85	108.34	10	1
3	A	648	PX4	O7-C7-C6	2.65	117.85	108.34	7	2
3	B	396	PX4	C5-N1-C4	2.65	102.01	108.98	3	4
3	C	307	PX4	O7-C7-C6	2.65	98.83	108.34	9	1
3	C	312	PX4	O5-C9-C10	2.65	103.75	111.83	13	5
3	A	610	PX4	C1-C2-N1	2.65	124.32	115.82	12	3
3	A	625	PX4	C5-N1-C4	2.65	102.02	108.98	15	1
3	B	311	PX4	C7-O7-C23	2.65	111.46	117.80	11	3
3	B	342	PX4	C11-C10-C9	2.65	103.99	113.69	7	2
3	A	625	PX4	C8-C7-C6	2.65	105.61	111.78	8	1
3	C	343	PX4	C8-C7-C6	2.65	117.95	111.78	1	5
3	C	335	PX4	O8-C23-C24	2.64	134.13	123.78	15	1
3	A	606	PX4	C5-N1-C3	2.64	102.03	108.98	15	2
3	A	620	PX4	C25-C24-C23	2.64	104.01	113.69	10	1
3	B	386	PX4	C25-C24-C23	2.64	104.01	113.69	6	3
3	C	327	PX4	O1-P1-O2	2.64	124.74	112.44	8	2
3	C	327	PX4	O7-C7-C6	2.64	117.82	108.34	13	1
3	C	358	PX4	C4-N1-C3	2.64	102.03	108.98	12	3
3	C	363	PX4	O5-C9-O6	2.64	130.24	123.63	3	2
3	A	607	PX4	C5-N1-C3	2.64	115.91	108.98	14	2
3	A	619	PX4	C7-O7-C23	2.64	111.48	117.80	10	3
3	B	372	PX4	C1-C2-N1	2.64	124.30	115.82	8	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	374	PX4	C5-N1-C4	2.64	102.04	108.98	4	1
3	C	335	PX4	O5-C8-C7	2.64	116.00	108.40	8	4
3	A	636	PX4	O5-C9-O6	2.64	130.23	123.63	2	1
3	C	314	PX4	O5-C9-C10	2.64	103.79	111.83	3	1
3	C	334	PX4	C5-N1-C4	2.64	115.91	108.98	5	2
3	A	646	PX4	C1-C2-N1	2.64	124.28	115.82	6	2
3	A	603	PX4	C7-O7-C23	2.63	111.49	117.80	9	2
3	A	629	PX4	O1-P1-O2	2.63	124.70	112.44	13	1
3	B	307	PX4	C8-C7-C6	2.64	105.64	111.78	1	3
3	B	371	PX4	C8-C7-C6	2.63	105.64	111.78	5	3
3	C	338	PX4	O5-C8-C7	2.63	115.99	108.40	13	5
3	A	620	PX4	O5-C9-C10	2.63	103.81	111.83	5	2
3	C	321	PX4	O5-C9-O6	2.63	130.21	123.63	12	2
3	C	360	PX4	C5-N1-C4	2.63	115.89	108.98	3	3
3	B	369	PX4	C12-C11-C10	2.63	103.46	113.13	5	2
3	A	641	PX4	C4-N1-C3	2.63	115.89	108.98	12	1
3	C	335	PX4	C1-C2-N1	2.63	124.27	115.82	1	1
3	B	344	PX4	O5-C9-C10	2.63	103.82	111.83	3	4
3	B	357	PX4	C7-O7-C23	2.63	111.50	117.80	6	4
3	B	391	PX4	C1-C2-N1	2.63	124.26	115.82	4	1
3	B	377	PX4	O6-C9-C10	2.63	134.06	123.78	1	1
3	C	331	PX4	O7-C23-C24	2.63	105.79	111.48	9	5
3	A	630	PX4	C8-C7-C6	2.63	117.91	111.78	6	2
3	B	311	PX4	O5-C8-C7	2.63	115.97	108.40	3	3
3	B	329	PX4	C4-N1-C3	2.63	102.08	108.98	3	2
3	C	315	PX4	C11-C10-C9	2.63	123.32	113.69	8	1
3	C	317	PX4	C5-N1-C3	2.63	115.87	108.98	12	2
3	C	320	PX4	P1-O4-C6	2.63	136.40	121.35	9	1
3	C	325	PX4	O5-C9-C10	2.63	103.83	111.83	15	2
3	C	367	PX4	O7-C23-C24	2.63	105.80	111.48	3	3
3	B	308	PX4	O5-C9-O6	2.62	130.19	123.63	3	2
3	B	380	PX4	C1-C2-N1	2.62	124.25	115.82	4	1
3	B	388	PX4	O5-C9-C10	2.62	103.83	111.83	3	2
3	B	390	PX4	O7-C7-C8	2.62	117.76	108.34	5	1
3	C	327	PX4	C8-C7-C6	2.62	117.90	111.78	10	4
3	A	636	PX4	O7-C23-C24	2.62	105.81	111.48	5	3
3	B	333	PX4	C25-C24-C23	2.62	104.09	113.69	7	1
3	B	357	PX4	C1-C2-N1	2.62	124.24	115.82	4	2
3	B	335	PX4	P1-O3-C1	2.62	133.74	121.26	12	2
3	B	362	PX4	O5-C9-O6	2.62	130.19	123.63	5	2
3	C	309	PX4	O5-C9-O6	2.62	130.19	123.63	10	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	607	PX4	C5-N1-C2	2.62	120.32	109.91	3	1
3	B	373	PX4	C11-C10-C9	2.62	123.30	113.69	12	2
3	C	352	PX4	C5-N1-C4	2.62	102.09	108.98	15	2
3	B	355	PX4	C11-C10-C9	2.62	104.10	113.69	5	2
3	C	369	PX4	C26-C25-C24	2.62	122.75	113.13	12	1
3	B	386	PX4	O5-C9-O6	2.62	130.18	123.63	14	3
3	C	310	PX4	O5-C9-C10	2.62	103.85	111.83	1	2
3	B	324	PX4	C1-C2-N1	2.62	124.22	115.82	2	2
3	B	331	PX4	O7-C23-O8	2.62	129.82	123.70	9	2
3	B	347	PX4	C8-C7-C6	2.62	117.89	111.78	3	1
3	C	326	PX4	C5-N1-C4	2.62	115.85	108.98	10	4
3	C	332	PX4	O5-C8-C7	2.62	115.94	108.40	1	4
3	B	378	PX4	C1-C2-N1	2.61	107.43	115.82	14	3
3	A	627	PX4	O3-P1-O2	2.61	98.58	108.94	10	2
3	A	647	PX4	C8-C7-C6	2.61	105.70	111.78	3	2
3	B	359	PX4	O5-C8-C7	2.61	115.93	108.40	3	2
3	B	386	PX4	C5-N1-C2	2.61	120.30	109.91	11	2
3	C	308	PX4	O5-C9-O6	2.61	130.16	123.63	9	2
3	C	310	PX4	O7-C23-O8	2.61	129.81	123.70	6	4
3	C	322	PX4	O5-C9-C10	2.61	103.87	111.83	3	4
3	B	318	PX4	O5-C9-O6	2.61	117.10	123.63	12	3
3	B	361	PX4	O5-C9-C10	2.61	103.88	111.83	6	1
3	C	341	PX4	O3-C1-C2	2.61	122.21	109.65	12	1
3	C	359	PX4	C5-N1-C3	2.61	115.83	108.98	6	1
3	B	397	PX4	O5-C8-C7	2.61	115.92	108.40	15	4
3	B	397	PX4	C4-N1-C3	2.61	102.12	108.98	7	2
3	C	314	PX4	O7-C7-C8	2.61	117.70	108.34	14	3
3	C	368	PX4	C5-N1-C4	2.61	102.12	108.98	13	3
3	B	346	PX4	O7-C7-C8	2.61	117.70	108.34	4	3
3	A	647	PX4	O7-C23-O8	2.61	129.80	123.70	14	2
3	B	332	PX4	C4-N1-C3	2.61	102.13	108.98	6	4
3	B	346	PX4	C11-C10-C9	2.61	123.25	113.69	9	1
3	C	334	PX4	C1-C2-N1	2.61	124.19	115.82	10	2
3	A	601	PX4	O7-C23-O8	2.60	129.79	123.70	11	4
3	B	351	PX4	O7-C23-O8	2.61	129.80	123.70	6	3
3	A	614	PX4	O7-C23-O8	2.60	129.79	123.70	6	4
3	B	311	PX4	C4-N1-C3	2.60	102.14	108.98	15	1
3	B	320	PX4	C8-C7-C6	2.60	105.71	111.78	15	1
3	B	335	PX4	C5-N1-C3	2.60	115.82	108.98	9	1
3	B	344	PX4	O7-C7-C8	2.60	117.68	108.34	11	1
3	B	345	PX4	O7-C7-C8	2.60	117.69	108.34	7	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	328	PX4	O5-C8-C7	2.60	115.91	108.40	11	3
3	C	366	PX4	O7-C7-C6	2.60	117.69	108.34	3	1
3	B	376	PX4	C4-N1-C3	2.60	102.14	108.98	2	2
3	C	326	PX4	O1-P1-O2	2.60	124.55	112.44	14	1
3	C	327	PX4	C4-N1-C3	2.60	102.14	108.98	7	1
3	C	335	PX4	C25-C24-C23	2.60	123.23	113.69	8	1
3	C	369	PX4	C7-O7-C23	2.60	111.56	117.80	5	1
3	A	608	PX4	O5-C9-O6	2.60	130.14	123.63	5	1
3	C	351	PX4	C26-C25-C24	2.60	103.56	113.13	8	1
3	A	615	PX4	O7-C23-O8	2.60	129.78	123.70	15	1
3	A	622	PX4	C8-O5-C9	2.60	107.61	117.12	4	1
3	C	311	PX4	C5-N1-C4	2.60	102.15	108.98	9	1
3	C	344	PX4	C8-O5-C9	2.60	126.62	117.12	6	1
3	C	354	PX4	O7-C7-C6	2.60	117.67	108.34	2	1
3	B	321	PX4	C16-C15-C14	2.60	101.23	114.37	11	1
3	A	604	PX4	O7-C7-C8	2.60	117.66	108.34	6	2
3	B	313	PX4	C11-C10-C9	2.60	123.21	113.69	9	2
3	B	346	PX4	O7-C23-O8	2.60	117.63	123.70	14	1
3	C	341	PX4	C11-C10-C9	2.60	104.17	113.69	9	1
3	B	352	PX4	C1-C2-N1	2.60	124.16	115.82	6	1
3	C	341	PX4	C1-C2-N1	2.60	124.16	115.82	14	1
3	C	368	PX4	O5-C9-O6	2.60	130.13	123.63	1	2
3	B	361	PX4	C4-N1-C3	2.60	115.80	108.98	4	1
3	C	353	PX4	C11-C10-C9	2.60	104.18	113.69	1	2
3	C	355	PX4	C1-C2-N1	2.60	124.15	115.82	12	1
3	C	360	PX4	P1-O3-C1	2.60	108.91	121.26	12	1
3	C	367	PX4	C11-C10-C9	2.60	104.18	113.69	3	2
3	B	366	PX4	C12-C11-C10	2.59	103.59	113.13	7	2
3	C	346	PX4	C5-N1-C4	2.59	115.79	108.98	14	1
3	C	358	PX4	O7-C7-C6	2.59	117.65	108.34	12	2
3	B	309	PX4	C5-N1-C4	2.59	102.16	108.98	4	2
3	B	319	PX4	O5-C8-C7	2.59	115.87	108.40	5	2
3	B	350	PX4	O5-C8-C7	2.59	115.87	108.40	15	3
3	B	354	PX4	P1-O4-C6	2.59	136.21	121.35	14	1
3	B	366	PX4	C5-N1-C3	2.59	115.79	108.98	12	1
3	B	383	PX4	C1-C2-N1	2.59	124.15	115.82	1	2
3	B	320	PX4	O5-C8-C7	2.59	115.87	108.40	14	4
3	C	303	PX4	C5-N1-C3	2.59	115.78	108.98	9	5
3	C	314	PX4	C5-N1-C4	2.59	115.78	108.98	5	5
3	C	361	PX4	C12-C11-C10	2.59	103.60	113.13	14	1
3	B	306	PX4	C5-N1-C3	2.59	102.17	108.98	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	374	PX4	C4-N1-C3	2.59	115.78	108.98	9	1
3	B	378	PX4	C4-N1-C3	2.59	102.18	108.98	12	1
3	B	396	PX4	O6-C9-C10	2.59	133.90	123.78	6	2
3	C	308	PX4	C4-N1-C3	2.59	102.18	108.98	14	2
3	C	364	PX4	O5-C9-C10	2.59	103.94	111.83	12	1
3	B	369	PX4	C25-C24-C23	2.59	123.17	113.69	1	1
3	C	310	PX4	C13-C12-C11	2.59	101.29	114.37	7	1
3	C	344	PX4	C1-C2-N1	2.59	124.12	115.82	14	1
3	A	628	PX4	O5-C8-C7	2.58	115.85	108.40	14	2
3	A	634	PX4	C8-C7-C6	2.58	105.76	111.78	7	2
3	A	615	PX4	O5-C9-C10	2.58	103.96	111.83	4	3
3	A	620	PX4	C4-N1-C3	2.58	115.76	108.98	10	1
3	A	629	PX4	O5-C9-O6	2.58	130.09	123.63	11	2
3	B	358	PX4	C31-C30-C29	2.58	101.30	114.37	10	1
3	B	392	PX4	O7-C7-C8	2.58	117.61	108.34	8	1
3	C	332	PX4	C25-C24-C23	2.58	104.22	113.69	1	2
3	C	342	PX4	C12-C11-C10	2.58	122.62	113.13	15	1
3	A	605	PX4	O5-C9-O6	2.58	130.09	123.63	7	3
3	B	322	PX4	O5-C9-O6	2.58	130.09	123.63	2	3
3	C	326	PX4	O5-C9-C10	2.58	103.96	111.83	5	2
3	C	363	PX4	C5-N1-C3	2.58	102.19	108.98	3	3
3	C	364	PX4	C5-N1-C3	2.58	115.76	108.98	14	2
3	A	621	PX4	O7-C23-C24	2.58	105.90	111.48	7	2
3	B	376	PX4	O5-C8-C7	2.58	115.83	108.40	12	2
3	B	399	PX4	O5-C9-C10	2.58	103.97	111.83	4	2
3	C	315	PX4	C5-N1-C4	2.58	115.76	108.98	15	1
3	A	620	PX4	C26-C25-C24	2.58	103.65	113.13	6	1
3	B	327	PX4	O7-C7-C8	2.58	117.60	108.34	7	4
3	B	332	PX4	O7-C7-C6	2.58	99.09	108.34	6	1
3	B	382	PX4	C5-N1-C4	2.58	102.20	108.98	7	2
3	C	312	PX4	C5-N1-C3	2.58	102.20	108.98	1	4
3	C	307	PX4	C4-N1-C3	2.58	102.21	108.98	7	3
3	A	626	PX4	O5-C9-O6	2.57	130.07	123.63	6	1
3	B	303	PX4	O7-C23-C24	2.58	105.91	111.48	11	2
3	B	367	PX4	C5-N1-C4	2.58	115.74	108.98	6	1
3	C	347	PX4	C1-C2-N1	2.58	124.09	115.82	1	2
3	A	612	PX4	C29-C28-C27	2.57	101.36	114.37	7	1
3	B	320	PX4	C8-O5-C9	2.57	107.71	117.12	2	1
3	B	348	PX4	C5-N1-C4	2.57	115.74	108.98	12	2
3	B	400	PX4	O7-C7-C6	2.57	117.57	108.34	11	1
3	C	335	PX4	C26-C25-C24	2.57	103.67	113.13	15	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	612	PX4	O7-C23-O8	2.57	129.72	123.70	7	1
3	C	314	PX4	C4-N1-C3	2.57	102.22	108.98	12	2
3	B	321	PX4	O7-C7-C6	2.57	117.56	108.34	2	2
3	B	377	PX4	O1-P1-O4	2.57	119.22	107.57	7	1
3	C	323	PX4	C8-C7-C6	2.57	105.79	111.78	12	1
3	B	386	PX4	C5-N1-C4	2.57	115.72	108.98	13	4
3	B	393	PX4	C4-N1-C3	2.57	102.23	108.98	10	4
3	C	307	PX4	O7-C7-C8	2.57	117.56	108.34	4	1
3	C	364	PX4	C1-C2-N1	2.57	124.07	115.82	13	4
3	A	606	PX4	O5-C9-O6	2.57	130.05	123.63	11	2
3	B	353	PX4	O5-C8-C7	2.57	115.79	108.40	9	2
3	C	330	PX4	C8-C7-C6	2.56	117.76	111.78	6	3
3	C	337	PX4	C5-N1-C4	2.56	102.24	108.98	6	1
3	A	619	PX4	C32-C31-C30	2.56	127.33	114.37	6	1
3	B	366	PX4	O7-C23-O8	2.56	129.70	123.70	7	3
3	B	305	PX4	C5-N1-C3	2.56	102.25	108.98	7	2
3	B	339	PX4	O5-C9-C10	2.56	104.03	111.83	8	2
3	B	357	PX4	C31-C30-C29	2.56	101.42	114.37	8	1
3	B	393	PX4	C8-C7-C6	2.56	105.81	111.78	9	2
3	B	374	PX4	C5-N1-C3	2.56	102.25	108.98	12	2
3	C	348	PX4	O7-C7-C8	2.56	117.52	108.34	6	3
3	B	326	PX4	C11-C10-C9	2.56	104.32	113.69	9	2
3	C	354	PX4	C11-C10-C9	2.56	123.07	113.69	6	1
3	B	340	PX4	C7-O7-C23	2.56	111.68	117.80	1	3
3	B	370	PX4	O5-C8-C7	2.56	115.77	108.40	14	6
3	B	400	PX4	C26-C25-C24	2.56	122.52	113.13	3	1
3	B	323	PX4	O5-C9-O6	2.55	130.02	123.63	10	1
3	B	389	PX4	O7-C23-C24	2.55	105.95	111.48	15	1
3	B	391	PX4	O5-C8-C7	2.55	115.76	108.40	1	2
3	C	333	PX4	C1-C2-N1	2.55	124.02	115.82	8	1
3	A	616	PX4	C12-C11-C10	2.55	103.75	113.13	15	2
3	A	621	PX4	C4-N1-C3	2.55	102.27	108.98	6	2
3	B	346	PX4	O5-C9-O6	2.55	130.01	123.63	14	2
3	C	309	PX4	C5-N1-C3	2.55	102.27	108.98	4	2
3	C	346	PX4	P1-O3-C1	2.55	133.40	121.26	1	1
3	B	323	PX4	P1-O3-C1	2.55	133.39	121.26	10	1
3	B	331	PX4	C7-O7-C23	2.55	111.70	117.80	5	4
3	B	354	PX4	C1-C2-N1	2.55	124.00	115.82	6	1
3	B	358	PX4	C5-N1-C2	2.55	99.78	109.91	3	1
3	B	371	PX4	C25-C24-C23	2.55	104.36	113.69	2	1
3	B	380	PX4	C8-O5-C9	2.55	107.80	117.12	12	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	331	PX4	O5-C9-O6	2.55	130.00	123.63	1	2
3	A	620	PX4	O5-C9-O6	2.55	130.00	123.63	11	2
3	C	303	PX4	O7-C7-C8	2.55	117.48	108.34	3	1
3	C	328	PX4	C7-O7-C23	2.55	111.70	117.80	5	2
3	A	631	PX4	C12-C11-C10	2.54	103.78	113.13	15	2
3	B	306	PX4	O8-C23-C24	2.54	133.73	123.78	11	1
3	C	303	PX4	C1-C2-N1	2.55	123.99	115.82	13	4
3	C	314	PX4	O7-C7-C6	2.54	117.47	108.34	1	3
3	B	373	PX4	C5-N1-C3	2.54	115.66	108.98	15	2
3	B	394	PX4	C12-C11-C10	2.54	103.79	113.13	4	1
3	C	330	PX4	C11-C10-C9	2.54	104.38	113.69	14	1
3	B	338	PX4	C26-C25-C24	2.54	122.45	113.13	3	1
3	B	364	PX4	C7-O7-C23	2.54	111.72	117.80	3	3
3	B	371	PX4	C1-C2-N1	2.54	123.97	115.82	10	2
3	B	384	PX4	C11-C10-C9	2.54	104.39	113.69	2	1
3	B	390	PX4	C8-C7-C6	2.54	117.70	111.78	1	2
3	C	309	PX4	O7-C7-C8	2.54	117.45	108.34	6	3
3	C	310	PX4	O5-C9-O6	2.54	129.98	123.63	3	2
3	B	325	PX4	O7-C23-O8	2.54	117.78	123.70	2	2
3	B	399	PX4	C4-N1-C3	2.54	102.32	108.98	6	3
3	C	302	PX4	O7-C7-C6	2.54	117.44	108.34	9	1
3	A	612	PX4	O5-C9-O6	2.53	129.96	123.63	6	2
3	B	313	PX4	O7-C23-O8	2.53	129.63	123.70	11	1
3	B	327	PX4	P1-O3-C1	2.53	133.32	121.26	1	1
3	B	386	PX4	C8-C7-C6	2.53	105.88	111.78	10	2
3	B	388	PX4	C12-C11-C10	2.53	122.44	113.13	3	1
3	A	638	PX4	C5-N1-C2	2.53	119.97	109.91	9	1
3	B	310	PX4	C1-C2-N1	2.53	123.95	115.82	5	2
3	B	375	PX4	C7-O7-C23	2.53	111.74	117.80	7	3
3	B	386	PX4	C12-C11-C10	2.53	122.43	113.13	5	1
3	B	394	PX4	C1-C2-N1	2.53	123.95	115.82	2	2
3	C	337	PX4	C5-N1-C3	2.53	115.62	108.98	9	2
3	A	602	PX4	O7-C7-C8	2.53	117.42	108.34	1	3
3	B	305	PX4	C25-C24-C23	2.53	122.97	113.69	9	3
3	B	350	PX4	C5-N1-C4	2.53	102.33	108.98	2	2
3	C	305	PX4	C8-C7-C6	2.53	117.68	111.78	15	1
3	A	615	PX4	C3-N1-C2	2.53	119.95	109.91	5	3
3	A	619	PX4	C5-N1-C4	2.53	102.34	108.98	9	2
3	B	315	PX4	O7-C23-O8	2.53	129.61	123.70	15	2
3	B	341	PX4	O5-C9-C10	2.53	104.13	111.83	9	2
3	B	394	PX4	O5-C9-O6	2.53	129.95	123.63	15	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	639	PX4	C7-O7-C23	2.52	111.75	117.80	5	3
3	B	308	PX4	O7-C7-C6	2.52	117.40	108.34	3	3
3	B	357	PX4	O7-C23-O8	2.52	129.61	123.70	11	1
3	C	313	PX4	O5-C9-C10	2.52	104.14	111.83	7	1
3	A	626	PX4	O7-C7-C6	2.52	99.30	108.34	6	2
3	A	628	PX4	C8-C7-C6	2.52	117.67	111.78	13	2
3	B	396	PX4	O7-C7-C8	2.52	117.39	108.34	4	1
3	C	329	PX4	O7-C23-O8	2.52	129.60	123.70	8	2
3	B	330	PX4	C26-C25-C24	2.52	122.39	113.13	8	1
3	C	349	PX4	C5-N1-C3	2.52	102.35	108.98	4	2
3	A	634	PX4	C8-O5-C9	2.52	107.91	117.12	11	1
3	A	645	PX4	C8-C7-C6	2.52	105.91	111.78	2	2
3	C	342	PX4	O5-C8-C7	2.52	115.66	108.40	1	5
3	B	312	PX4	O5-C9-C10	2.52	104.16	111.83	13	3
3	B	356	PX4	C11-C10-C9	2.52	122.92	113.69	13	1
3	B	362	PX4	C5-N1-C4	2.52	115.59	108.98	9	1
3	C	361	PX4	O5-C9-C10	2.52	104.15	111.83	15	1
3	B	377	PX4	O5-C8-C7	2.52	115.66	108.40	14	3
3	B	393	PX4	C25-C24-C23	2.52	104.47	113.69	1	1
3	C	337	PX4	O5-C9-O6	2.52	129.93	123.63	3	3
3	B	394	PX4	P1-O3-C1	2.52	133.24	121.26	9	1
3	C	319	PX4	C12-C11-C10	2.52	122.38	113.13	5	1
3	C	347	PX4	C7-O7-C23	2.52	123.82	117.80	5	3
3	A	601	PX4	C4-N1-C3	2.52	102.37	108.98	1	1
3	C	351	PX4	O7-C7-C6	2.52	117.37	108.34	11	2
3	C	359	PX4	C26-C25-C24	2.52	103.88	113.13	5	1
3	A	609	PX4	C12-C11-C10	2.52	103.88	113.13	9	1
3	B	375	PX4	O5-C9-C10	2.52	104.16	111.83	7	1
3	B	312	PX4	C11-C10-C9	2.51	104.48	113.69	4	1
3	B	370	PX4	C8-C7-C6	2.51	105.92	111.78	2	1
3	A	633	PX4	O7-C7-C6	2.51	117.36	108.34	1	2
3	B	310	PX4	C26-C25-C24	2.51	122.36	113.13	7	1
3	C	355	PX4	C5-N1-C3	2.51	102.38	108.98	11	1
3	A	614	PX4	O1-P1-O3	2.51	118.94	107.57	2	1
3	A	648	PX4	O7-C7-C8	2.51	117.35	108.34	15	4
3	B	363	PX4	O7-C23-O8	2.51	129.57	123.70	4	1
3	B	382	PX4	C5-N1-C3	2.51	102.38	108.98	5	1
3	B	349	PX4	C4-N1-C3	2.51	102.39	108.98	10	1
3	B	370	PX4	O5-C9-C10	2.51	104.18	111.83	11	3
3	B	387	PX4	O5-C9-O6	2.51	129.90	123.63	12	2
3	B	393	PX4	O7-C7-C8	2.51	117.34	108.34	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	350	PX4	C5-N1-C3	2.51	102.38	108.98	15	1
3	B	370	PX4	C1-C2-N1	2.51	123.87	115.82	12	2
3	C	303	PX4	C25-C24-C23	2.51	104.51	113.69	8	2
3	C	307	PX4	C11-C10-C9	2.51	104.51	113.69	2	2
3	A	641	PX4	C5-N1-C3	2.51	115.56	108.98	15	2
3	B	306	PX4	O7-C7-C8	2.51	117.33	108.34	9	2
3	B	366	PX4	C26-C25-C24	2.51	122.33	113.13	12	2
3	B	385	PX4	C5-N1-C3	2.50	102.40	108.98	10	1
3	A	624	PX4	O5-C9-C10	2.50	104.20	111.83	15	2
3	C	360	PX4	C5-N1-C2	2.50	119.86	109.91	1	1
3	B	375	PX4	C26-C25-C24	2.50	122.32	113.13	3	1
3	B	385	PX4	C29-C28-C27	2.50	101.72	114.37	12	1
3	C	332	PX4	O5-C9-C10	2.50	104.20	111.83	4	1
3	C	348	PX4	C5-N1-C4	2.50	115.55	108.98	7	2
3	A	614	PX4	O3-C1-C2	2.50	97.61	109.65	3	2
3	A	612	PX4	C5-N1-C4	2.50	102.41	108.98	5	1
3	A	623	PX4	P1-O3-C1	2.50	109.36	121.26	10	1
3	B	308	PX4	C7-O7-C23	2.50	111.81	117.80	8	2
3	C	306	PX4	C8-O5-C9	2.50	107.98	117.12	3	1
3	A	636	PX4	C5-N1-C4	2.50	102.41	108.98	1	1
3	C	346	PX4	O7-C7-C8	2.50	117.31	108.34	10	2
3	B	345	PX4	C5-N1-C4	2.50	115.54	108.98	11	1
3	A	610	PX4	O5-C8-C7	2.50	115.59	108.40	12	3
3	A	626	PX4	C8-O5-C9	2.50	126.24	117.12	14	1
3	A	635	PX4	O5-C8-C7	2.49	115.59	108.40	8	1
3	B	325	PX4	C5-N1-C3	2.49	102.42	108.98	3	1
3	B	333	PX4	O1-P1-O2	2.49	124.05	112.44	9	1
3	B	382	PX4	O3-C1-C2	2.49	121.65	109.65	9	1
3	B	368	PX4	C5-N1-C3	2.49	115.53	108.98	9	2
3	C	334	PX4	O7-C7-C8	2.49	117.29	108.34	8	2
3	C	352	PX4	O7-C7-C8	2.49	117.29	108.34	13	2
3	A	632	PX4	C5-N1-C3	2.49	102.43	108.98	14	3
3	A	646	PX4	O7-C23-O8	2.49	129.53	123.70	2	1
3	B	301	PX4	C4-N1-C3	2.49	115.52	108.98	10	1
3	B	345	PX4	O5-C8-C7	2.49	115.58	108.40	2	3
3	B	381	PX4	C5-N1-C3	2.49	102.43	108.98	3	1
3	C	308	PX4	C11-C10-C9	2.49	104.57	113.69	2	1
3	C	348	PX4	C26-C25-C24	2.49	103.97	113.13	10	1
3	C	361	PX4	O7-C7-C8	2.49	117.28	108.34	15	1
3	A	607	PX4	C34-C33-C32	2.49	126.95	114.37	7	1
3	B	380	PX4	C25-C24-C23	2.49	122.81	113.69	11	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	339	PX4	C5-N1-C3	2.49	102.44	108.98	15	2
3	B	319	PX4	C7-O7-C23	2.49	123.75	117.80	11	1
3	B	343	PX4	C1-C2-N1	2.49	123.81	115.82	8	1
3	C	364	PX4	P1-O4-C6	2.49	135.60	121.35	7	1
3	A	628	PX4	C12-C11-C10	2.48	104.00	113.13	3	3
3	B	348	PX4	C4-N1-C3	2.48	102.45	108.98	12	3
3	B	351	PX4	C26-C25-C24	2.48	122.25	113.13	1	1
3	C	347	PX4	O5-C9-C10	2.48	104.26	111.83	2	2
3	A	630	PX4	O5-C9-O6	2.48	129.84	123.63	11	4
3	A	614	PX4	P1-O3-C1	2.48	133.07	121.26	2	1
3	B	350	PX4	O1-P1-O2	2.48	123.99	112.44	6	1
3	B	386	PX4	P1-O4-C6	2.48	135.57	121.35	3	1
3	B	329	PX4	P1-O3-C1	2.48	133.06	121.26	6	1
3	C	354	PX4	C25-C24-C23	2.48	104.61	113.69	9	1
3	A	640	PX4	O5-C9-O6	2.48	129.83	123.63	11	3
3	A	620	PX4	O7-C23-C24	2.48	106.12	111.48	3	2
3	A	608	PX4	C5-N1-C4	2.48	115.48	108.98	3	2
3	B	322	PX4	C5-N1-C3	2.48	102.47	108.98	15	1
3	B	341	PX4	C5-N1-C4	2.48	102.47	108.98	12	2
3	B	347	PX4	C14-C13-C12	2.48	101.85	114.37	15	2
3	B	348	PX4	O5-C9-O6	2.48	129.82	123.63	8	1
3	B	309	PX4	O5-C9-O6	2.47	129.82	123.63	2	3
3	B	383	PX4	C4-N1-C3	2.47	115.47	108.98	9	2
3	B	393	PX4	O7-C7-C6	2.47	117.22	108.34	1	1
3	C	356	PX4	C12-C11-C10	2.48	104.03	113.13	13	1
3	B	332	PX4	C11-C10-C9	2.47	122.76	113.69	8	2
3	B	400	PX4	C1-C2-N1	2.47	123.76	115.82	15	2
3	C	317	PX4	C8-C7-C6	2.47	117.55	111.78	4	3
3	A	625	PX4	O5-C9-O6	2.47	129.81	123.63	1	1
3	C	309	PX4	O8-C23-C24	2.47	114.12	123.78	1	1
3	C	309	PX4	O7-C7-C6	2.47	117.21	108.34	13	1
3	A	603	PX4	O7-C7-C8	2.47	117.20	108.34	6	4
3	A	613	PX4	C11-C10-C9	2.47	122.74	113.69	7	1
3	A	615	PX4	O7-C7-C6	2.47	117.20	108.34	11	2
3	C	367	PX4	O5-C9-C10	2.47	104.31	111.83	4	2
3	C	366	PX4	O5-C8-C7	2.47	115.51	108.40	4	1
3	B	306	PX4	O5-C9-O6	2.47	129.80	123.63	3	1
3	C	342	PX4	C5-N1-C3	2.47	102.50	108.98	2	2
3	A	645	PX4	O5-C9-O6	2.46	129.79	123.63	11	2
3	B	304	PX4	O5-C9-O6	2.46	129.79	123.63	3	1
3	B	322	PX4	C26-C25-C24	2.46	104.07	113.13	13	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	328	PX4	O5-C9-O6	2.47	129.79	123.63	12	2
3	C	316	PX4	O7-C7-C8	2.47	117.19	108.34	5	2
3	C	354	PX4	C4-N1-C3	2.47	102.50	108.98	10	2
3	B	318	PX4	O7-C23-C24	2.46	106.15	111.48	6	1
3	B	357	PX4	C8-O5-C9	2.46	108.11	117.12	13	1
3	C	366	PX4	C11-C10-C9	2.46	122.72	113.69	10	2
3	B	319	PX4	P1-O3-C1	2.46	132.98	121.26	6	1
3	A	627	PX4	C8-C7-C6	2.46	106.05	111.78	15	2
3	B	367	PX4	C1-C2-N1	2.46	123.72	115.82	4	1
3	B	381	PX4	C8-O5-C9	2.46	108.13	117.12	3	2
3	B	383	PX4	C5-N1-C3	2.46	115.44	108.98	2	2
3	B	390	PX4	O6-C9-C10	2.46	133.41	123.78	13	1
3	C	311	PX4	O7-C7-C6	2.46	117.17	108.34	3	2
3	A	629	PX4	C4-N1-C2	2.46	119.69	109.91	7	1
3	A	627	PX4	P1-O3-C1	2.46	109.55	121.26	2	1
3	C	338	PX4	O7-C23-O8	2.46	129.45	123.70	4	2
3	C	365	PX4	C5-N1-C4	2.46	102.52	108.98	1	4
3	B	311	PX4	C1-C2-N1	2.46	123.71	115.82	15	3
3	B	380	PX4	C4-N1-C3	2.46	102.52	108.98	11	1
3	A	627	PX4	O1-P1-O2	2.45	123.86	112.44	10	1
3	A	639	PX4	O7-C7-C6	2.45	117.15	108.34	3	2
3	A	648	PX4	C25-C24-C23	2.46	104.70	113.69	5	2
3	B	312	PX4	C1-C2-N1	2.46	123.70	115.82	12	1
3	B	315	PX4	C4-N1-C2	2.46	119.67	109.91	8	1
3	C	308	PX4	C5-N1-C3	2.46	102.52	108.98	5	2
3	C	323	PX4	C1-C2-N1	2.46	123.70	115.82	1	1
3	B	327	PX4	O5-C9-C10	2.45	104.35	111.83	10	2
3	B	367	PX4	C4-N1-C3	2.45	115.42	108.98	10	1
3	B	376	PX4	C34-C33-C32	2.45	101.97	114.37	4	1
3	B	385	PX4	O7-C7-C8	2.45	117.14	108.34	12	2
3	C	340	PX4	O5-C8-C7	2.45	115.47	108.40	6	1
3	B	347	PX4	O5-C9-O6	2.45	129.76	123.63	5	1
3	B	357	PX4	P1-O3-C1	2.45	109.58	121.26	15	2
3	C	338	PX4	O5-C9-O6	2.45	129.76	123.63	4	1
3	C	342	PX4	C19-C18-C17	2.45	101.97	114.37	11	1
3	A	605	PX4	O3-C1-C2	2.45	97.85	109.65	2	1
3	B	349	PX4	C8-C7-C6	2.45	117.50	111.78	15	1
3	B	353	PX4	C4-N1-C3	2.45	115.41	108.98	5	2
3	C	310	PX4	O7-C23-C24	2.45	116.78	111.48	11	1
3	C	314	PX4	C25-C24-C23	2.45	122.67	113.69	15	1
3	C	315	PX4	O1-P1-O2	2.45	123.84	112.44	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	610	PX4	O5-C9-O6	2.45	129.75	123.63	12	4
3	B	359	PX4	O7-C7-C8	2.45	117.13	108.34	2	1
3	A	634	PX4	O7-C7-C8	2.45	117.12	108.34	7	2
3	A	640	PX4	O1-P1-O3	2.45	118.66	107.57	4	1
3	B	311	PX4	C13-C12-C11	2.45	126.73	114.37	12	1
3	B	329	PX4	C26-C25-C24	2.45	104.14	113.13	12	1
3	A	639	PX4	C31-C30-C29	2.45	102.01	114.37	10	1
3	B	305	PX4	C1-C2-N1	2.45	123.67	115.82	11	2
3	B	351	PX4	O5-C9-O6	2.44	129.74	123.63	15	1
3	B	380	PX4	C11-C10-C9	2.44	104.74	113.69	12	2
3	A	604	PX4	O7-C23-O8	2.44	129.42	123.70	4	1
3	B	357	PX4	C5-N1-C4	2.44	102.56	108.98	12	1
3	C	312	PX4	C5-N1-C4	2.44	115.39	108.98	7	2
3	A	634	PX4	C4-N1-C3	2.44	102.56	108.98	7	2
3	A	639	PX4	O5-C9-O6	2.44	129.73	123.63	15	1
3	B	316	PX4	O7-C23-C24	2.44	106.20	111.48	6	1
3	B	364	PX4	C5-N1-C3	2.44	102.56	108.98	8	2
3	C	312	PX4	C25-C24-C23	2.44	104.75	113.69	3	1
3	B	381	PX4	P1-O4-C6	2.44	135.33	121.35	10	1
3	C	314	PX4	O5-C9-O6	2.44	129.73	123.63	8	2
3	B	308	PX4	O8-C23-C24	2.44	133.32	123.78	4	1
3	C	330	PX4	C5-N1-C3	2.44	102.56	108.98	13	1
3	C	359	PX4	C13-C12-C11	2.44	102.03	114.37	4	1
3	A	615	PX4	O7-C23-C24	2.44	106.21	111.48	9	1
3	B	346	PX4	C4-N1-C3	2.44	102.57	108.98	13	1
3	A	611	PX4	O1-P1-O2	2.44	123.78	112.44	8	1
3	A	636	PX4	O5-C9-C10	2.44	104.40	111.83	2	3
3	B	348	PX4	O7-C7-C6	2.44	117.09	108.34	2	2
3	B	384	PX4	C1-C2-N1	2.44	123.65	115.82	10	2
3	C	358	PX4	O7-C23-O8	2.44	129.40	123.70	9	2
3	A	642	PX4	C1-C2-N1	2.43	123.64	115.82	12	2
3	B	304	PX4	C25-C24-C23	2.44	104.77	113.69	1	3
3	B	338	PX4	C8-C7-C6	2.44	117.46	111.78	11	1
3	B	363	PX4	O7-C7-C8	2.44	117.08	108.34	4	1
3	C	327	PX4	O7-C23-C24	2.44	106.21	111.48	2	2
3	A	630	PX4	O7-C7-C8	2.43	117.07	108.34	10	1
3	A	644	PX4	C3-N1-C2	2.43	119.58	109.91	1	2
3	B	332	PX4	C26-C25-C24	2.43	104.18	113.13	10	1
3	C	321	PX4	O6-C9-C10	2.43	114.26	123.78	11	1
3	C	324	PX4	C15-C14-C13	2.43	102.06	114.37	2	1
3	C	370	PX4	C11-C10-C9	2.43	104.77	113.69	2	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	353	PX4	O7-C23-C24	2.43	106.22	111.48	2	3
3	C	358	PX4	O5-C9-C10	2.43	104.42	111.83	10	1
3	A	601	PX4	C5-N1-C3	2.43	102.59	108.98	8	2
3	A	605	PX4	C25-C24-C23	2.43	104.79	113.69	12	2
3	A	614	PX4	C25-C24-C23	2.43	104.78	113.69	9	1
3	B	333	PX4	C11-C10-C9	2.43	104.79	113.69	14	2
3	B	400	PX4	O7-C7-C8	2.43	99.63	108.34	8	1
3	A	616	PX4	C25-C24-C23	2.43	122.59	113.69	8	1
3	B	317	PX4	C8-O5-C9	2.43	108.25	117.12	10	2
3	B	345	PX4	C12-C11-C10	2.43	104.21	113.13	14	1
3	C	302	PX4	O5-C8-C7	2.43	115.39	108.40	3	3
3	C	334	PX4	C31-C30-C29	2.43	102.10	114.37	14	1
3	A	602	PX4	C3-N1-C2	2.42	119.55	109.91	6	1
3	A	635	PX4	P1-O4-C6	2.43	107.45	121.35	15	1
3	C	370	PX4	O7-C7-C8	2.43	117.05	108.34	8	1
3	A	601	PX4	O5-C9-O6	2.42	129.69	123.63	11	2
3	B	322	PX4	O7-C23-O8	2.42	129.37	123.70	14	2
3	C	320	PX4	O7-C23-O8	2.42	129.37	123.70	8	2
3	C	330	PX4	O7-C7-C8	2.42	117.04	108.34	10	1
3	C	333	PX4	O7-C7-C6	2.42	117.04	108.34	13	1
3	C	368	PX4	C25-C24-C23	2.43	122.58	113.69	14	2
3	C	368	PX4	O8-C23-C24	2.42	133.27	123.78	8	1
3	A	633	PX4	C11-C10-C9	2.42	104.81	113.69	12	1
3	A	647	PX4	C5-N1-C3	2.42	102.61	108.98	8	1
3	B	354	PX4	O7-C7-C6	2.42	99.65	108.34	14	2
3	C	314	PX4	C3-N1-C2	2.42	100.28	109.91	15	1
3	C	366	PX4	O7-C23-C24	2.42	106.24	111.48	4	7
3	C	368	PX4	C12-C11-C10	2.42	104.22	113.13	4	1
3	B	310	PX4	C25-C24-C23	2.42	122.56	113.69	15	1
3	B	359	PX4	C5-N1-C4	2.42	115.33	108.98	6	3
3	C	306	PX4	O7-C7-C6	2.42	117.03	108.34	5	1
3	A	612	PX4	C4-N1-C3	2.42	115.33	108.98	3	1
3	C	308	PX4	C25-C24-C23	2.42	104.82	113.69	15	1
3	B	357	PX4	O5-C9-O6	2.42	129.68	123.63	13	2
3	B	363	PX4	O3-P1-O2	2.42	118.53	108.94	6	1
3	C	337	PX4	C5-N1-C2	2.42	119.53	109.91	8	1
3	C	345	PX4	O5-C9-O6	2.42	129.68	123.63	6	1
3	C	347	PX4	O7-C7-C8	2.42	117.02	108.34	10	2
3	B	337	PX4	C12-C11-C10	2.42	104.25	113.13	8	2
3	B	384	PX4	O3-P1-O2	2.42	99.36	108.94	7	1
3	C	312	PX4	O5-C9-O6	2.42	129.67	123.63	8	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	336	PX4	O5-C9-C10	2.41	104.47	111.83	3	1
3	C	367	PX4	O7-C23-O8	2.42	129.35	123.70	10	1
3	B	315	PX4	C4-N1-C3	2.41	115.31	108.98	1	2
3	B	325	PX4	P1-O3-C1	2.41	109.77	121.26	8	1
3	C	311	PX4	C7-O7-C23	2.41	112.02	117.80	3	1
3	A	640	PX4	C8-C7-C6	2.41	117.41	111.78	8	1
3	A	643	PX4	O4-P1-O2	2.41	118.49	108.94	15	1
3	B	319	PX4	O5-C9-O6	2.41	129.66	123.63	12	1
3	B	325	PX4	O7-C23-C24	2.41	106.27	111.48	6	3
3	C	317	PX4	O5-C9-C10	2.41	104.48	111.83	15	2
3	C	348	PX4	C8-C7-C6	2.41	117.41	111.78	3	3
3	B	349	PX4	C25-C24-C23	2.41	104.86	113.69	9	1
3	A	605	PX4	C26-C25-C24	2.41	121.97	113.13	7	1
3	B	383	PX4	C11-C10-C9	2.41	104.87	113.69	7	2
3	A	625	PX4	C25-C24-C23	2.41	122.52	113.69	2	1
3	C	304	PX4	O7-C7-C8	2.41	116.98	108.34	13	2
3	C	368	PX4	C8-O5-C9	2.41	108.31	117.12	2	2
3	B	360	PX4	O5-C9-C10	2.41	104.50	111.83	10	2
3	C	343	PX4	O7-C23-O8	2.41	129.33	123.70	1	1
3	B	371	PX4	C12-C11-C10	2.41	121.97	113.13	2	1
3	B	315	PX4	O5-C9-O6	2.41	129.64	123.63	4	1
3	C	310	PX4	C12-C11-C10	2.40	121.96	113.13	11	1
3	A	624	PX4	C14-C13-C12	2.40	102.22	114.37	10	1
3	A	647	PX4	C12-C11-C10	2.40	104.30	113.13	14	2
3	C	329	PX4	C29-C28-C27	2.40	102.21	114.37	12	1
3	C	359	PX4	C4-N1-C2	2.40	119.46	109.91	8	1
3	C	362	PX4	C5-N1-C4	2.40	115.29	108.98	10	3
3	C	302	PX4	O7-C23-C24	2.40	106.28	111.48	6	2
3	C	309	PX4	O6-C9-C10	2.40	114.39	123.78	5	1
3	C	330	PX4	C1-C2-N1	2.40	123.53	115.82	2	2
3	C	343	PX4	O1-P1-O2	2.40	123.62	112.44	12	3
3	C	346	PX4	C1-C2-N1	2.40	123.53	115.82	3	2
3	C	363	PX4	C4-N1-C3	2.40	102.67	108.98	1	2
3	B	301	PX4	O7-C23-O8	2.40	129.32	123.70	10	3
3	B	304	PX4	C12-C11-C10	2.40	104.31	113.13	2	2
3	B	358	PX4	C8-C7-C6	2.40	106.19	111.78	12	2
3	B	390	PX4	C1-C2-N1	2.40	123.53	115.82	2	1
3	A	644	PX4	O7-C23-O8	2.40	129.31	123.70	15	2
3	B	336	PX4	C1-C2-N1	2.40	123.52	115.82	7	1
3	B	339	PX4	C5-N1-C3	2.40	115.27	108.98	13	1
3	B	364	PX4	C4-N1-C3	2.40	102.68	108.98	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	374	PX4	C26-C25-C24	2.40	104.32	113.13	1	1
3	C	342	PX4	O7-C23-O8	2.40	129.31	123.70	10	1
3	C	344	PX4	O5-C9-O6	2.40	129.63	123.63	9	1
3	B	370	PX4	O7-C7-C6	2.40	116.94	108.34	12	1
3	C	331	PX4	C5-N1-C3	2.40	102.68	108.98	13	2
3	B	310	PX4	O5-C9-C10	2.39	104.53	111.83	7	1
3	B	384	PX4	C5-N1-C3	2.39	102.69	108.98	4	1
3	B	394	PX4	C31-C30-C29	2.39	102.26	114.37	3	2
3	C	344	PX4	C5-N1-C4	2.39	115.27	108.98	3	2
3	C	308	PX4	C8-C7-C6	2.39	117.37	111.78	1	2
3	C	355	PX4	C4-N1-C3	2.39	102.69	108.98	7	5
3	C	361	PX4	C8-C7-C6	2.39	117.37	111.78	3	3
3	A	605	PX4	C12-C11-C10	2.39	104.33	113.13	14	1
3	A	632	PX4	C12-C11-C10	2.39	104.33	113.13	8	2
3	B	315	PX4	O5-C9-C10	2.39	104.54	111.83	15	1
3	B	384	PX4	O3-C1-C2	2.39	121.16	109.65	8	1
3	C	326	PX4	O7-C7-C8	2.39	116.92	108.34	9	1
3	C	341	PX4	C4-N1-C2	2.39	119.42	109.91	13	1
3	A	620	PX4	O7-C7-C8	2.39	116.92	108.34	8	1
3	C	350	PX4	P1-O3-C1	2.39	132.64	121.26	2	1
3	B	340	PX4	O5-C9-O6	2.39	129.60	123.63	11	1
3	B	353	PX4	O1-P1-O2	2.39	123.56	112.44	13	1
3	B	360	PX4	O7-C7-C8	2.39	116.92	108.34	8	1
3	B	306	PX4	O5-C9-C10	2.39	104.55	111.83	3	3
3	B	381	PX4	P1-O3-C1	2.39	132.63	121.26	13	1
3	B	363	PX4	O5-C9-O6	2.39	129.60	123.63	13	2
3	B	395	PX4	C26-C25-C24	2.39	121.90	113.13	3	1
3	C	360	PX4	C5-N1-C3	2.39	102.70	108.98	6	5
3	C	364	PX4	C25-C24-C23	2.39	122.45	113.69	4	1
3	C	343	PX4	C12-C11-C10	2.39	121.90	113.13	8	2
3	C	365	PX4	O1-P1-O4	2.39	118.39	107.57	12	1
3	A	619	PX4	C25-C24-C23	2.39	104.95	113.69	6	1
3	A	644	PX4	C26-C25-C24	2.39	104.36	113.13	2	1
3	B	315	PX4	C1-C2-N1	2.39	123.48	115.82	1	3
3	B	343	PX4	C5-N1-C4	2.39	102.71	108.98	2	2
3	B	354	PX4	C7-O7-C23	2.39	123.51	117.80	15	3
3	B	390	PX4	C7-O7-C23	2.39	112.08	117.80	11	2
3	B	386	PX4	O7-C23-O8	2.39	129.28	123.70	7	1
3	C	325	PX4	C8-C7-C6	2.38	106.23	111.78	6	3
3	C	360	PX4	O5-C9-C10	2.38	104.57	111.83	11	2
3	A	609	PX4	C5-N1-C3	2.38	115.23	108.98	10	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	620	PX4	C5-N1-C2	2.38	119.38	109.91	7	2
3	A	616	PX4	O5-C8-C7	2.38	115.26	108.40	6	4
3	A	625	PX4	O7-C23-O8	2.38	129.27	123.70	11	1
3	A	633	PX4	C8-O5-C9	2.38	125.83	117.12	4	1
3	B	312	PX4	O1-P1-O4	2.38	118.36	107.57	4	1
3	C	364	PX4	C20-C19-C18	2.38	102.33	114.37	11	1
3	A	637	PX4	O7-C23-O8	2.38	129.27	123.70	14	1
3	B	320	PX4	P1-O3-C1	2.38	132.59	121.26	7	2
3	A	610	PX4	C11-C10-C9	2.38	122.41	113.69	7	1
3	B	338	PX4	O5-C9-O6	2.38	129.58	123.63	11	3
3	B	355	PX4	O7-C23-O8	2.38	129.27	123.70	15	2
3	C	309	PX4	O7-C23-C24	2.38	106.33	111.48	11	1
3	C	313	PX4	O7-C7-C6	2.38	116.88	108.34	4	1
3	C	346	PX4	C8-O5-C9	2.38	108.42	117.12	2	2
3	B	303	PX4	O1-P1-O3	2.38	118.34	107.57	14	1
3	A	607	PX4	C1-C2-N1	2.38	123.45	115.82	1	2
3	A	641	PX4	C5-N1-C4	2.38	115.22	108.98	2	1
3	B	343	PX4	O7-C23-O8	2.38	129.26	123.70	11	2
3	B	350	PX4	O7-C23-O8	2.38	129.26	123.70	10	3
3	B	359	PX4	C8-O5-C9	2.38	108.43	117.12	4	3
3	B	354	PX4	C8-C7-C6	2.38	106.25	111.78	6	2
3	B	354	PX4	C8-O5-C9	2.38	125.80	117.12	6	2
3	B	392	PX4	O5-C9-O6	2.38	129.57	123.63	11	3
3	C	321	PX4	O3-C1-C2	2.38	98.22	109.65	7	1
3	C	328	PX4	P1-O3-C1	2.37	109.96	121.26	8	1
3	C	339	PX4	C33-C32-C31	2.38	102.36	114.37	3	2
3	C	343	PX4	O7-C7-C8	2.38	116.87	108.34	9	2
3	C	307	PX4	O5-C9-C10	2.37	104.59	111.83	11	1
3	C	354	PX4	C12-C11-C10	2.38	104.40	113.13	14	1
3	A	601	PX4	C25-C24-C23	2.37	105.00	113.69	8	3
3	A	612	PX4	O5-C9-C10	2.37	104.60	111.83	4	3
3	A	638	PX4	O5-C9-O6	2.37	129.56	123.63	3	1
3	B	313	PX4	C5-N1-C3	2.37	102.74	108.98	8	2
3	A	635	PX4	O1-P1-O2	2.37	123.48	112.44	3	1
3	A	639	PX4	O8-C23-C24	2.37	133.06	123.78	12	1
3	A	640	PX4	C28-C27-C26	2.37	102.38	114.37	8	1
3	B	326	PX4	O7-C7-C8	2.37	116.85	108.34	3	2
3	B	368	PX4	C8-C7-C6	2.37	106.25	111.78	4	2
3	B	393	PX4	C5-N1-C3	2.37	115.21	108.98	2	3
3	A	645	PX4	C12-C11-C10	2.37	121.83	113.13	3	2
3	B	301	PX4	C5-N1-C4	2.37	102.75	108.98	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	318	PX4	C20-C19-C18	2.37	102.39	114.37	1	1
3	C	306	PX4	C5-N1-C4	2.37	102.75	108.98	2	3
3	C	324	PX4	C4-N1-C3	2.37	102.75	108.98	13	3
3	A	604	PX4	C16-C15-C14	2.37	102.40	114.37	1	1
3	B	318	PX4	O5-C8-C7	2.37	115.22	108.40	8	2
3	B	333	PX4	O5-C9-C10	2.37	104.61	111.83	3	2
3	B	371	PX4	C5-N1-C4	2.37	102.75	108.98	7	2
3	C	314	PX4	O7-C23-O8	2.37	129.24	123.70	5	1
3	C	345	PX4	O5-C8-C7	2.37	115.22	108.40	13	4
3	A	626	PX4	C8-C7-C6	2.37	117.31	111.78	4	1
3	B	350	PX4	C15-C14-C13	2.37	102.40	114.37	11	1
3	B	377	PX4	C5-N1-C4	2.37	102.76	108.98	1	1
3	B	380	PX4	O5-C9-C10	2.37	104.62	111.83	3	3
3	C	331	PX4	O1-P1-O2	2.37	123.46	112.44	14	1
3	C	365	PX4	O6-C9-C10	2.37	133.04	123.78	5	1
3	B	366	PX4	C4-N1-C2	2.37	100.51	109.91	11	1
3	C	351	PX4	O1-P1-O2	2.37	123.45	112.44	13	1
3	C	367	PX4	C7-O7-C23	2.37	112.14	117.80	7	4
3	B	342	PX4	C26-C25-C24	2.36	104.44	113.13	1	1
3	A	603	PX4	O7-C7-C6	2.36	116.82	108.34	15	1
3	A	641	PX4	C8-O5-C9	2.36	108.48	117.12	3	1
3	B	302	PX4	O5-C9-C10	2.36	104.63	111.83	4	1
3	B	306	PX4	C13-C12-C11	2.36	102.42	114.37	1	2
3	B	354	PX4	O7-C7-C8	2.36	116.82	108.34	5	2
3	B	392	PX4	C12-C11-C10	2.36	121.81	113.13	3	2
3	B	363	PX4	C8-O5-C9	2.36	108.48	117.12	13	3
3	B	302	PX4	C25-C24-C23	2.36	122.35	113.69	4	1
3	B	316	PX4	O7-C7-C8	2.36	116.82	108.34	4	2
3	B	385	PX4	C4-N1-C3	2.36	102.77	108.98	6	2
3	B	395	PX4	C5-N1-C3	2.36	102.77	108.98	8	3
3	C	338	PX4	C1-C2-N1	2.36	123.41	115.82	8	2
3	B	318	PX4	C11-C10-C9	2.36	105.04	113.69	14	1
3	B	345	PX4	C8-O5-C9	2.36	125.75	117.12	15	2
3	C	303	PX4	O5-C9-O6	2.36	129.53	123.63	10	2
3	C	362	PX4	O5-C9-C10	2.36	104.64	111.83	8	1
3	B	367	PX4	C5-N1-C3	2.36	102.78	108.98	7	4
3	C	336	PX4	C4-N1-C3	2.36	115.17	108.98	7	1
3	C	361	PX4	O7-C23-C24	2.36	106.38	111.48	15	1
3	B	314	PX4	O1-P1-O4	2.36	118.26	107.57	15	2
3	B	314	PX4	C26-C25-C24	2.36	121.79	113.13	15	1
3	B	375	PX4	C5-N1-C3	2.36	102.78	108.98	12	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	397	PX4	O5-C9-O6	2.36	129.53	123.63	5	2
3	A	631	PX4	O5-C8-C7	2.36	115.19	108.40	14	4
3	B	337	PX4	C26-C25-C24	2.36	121.79	113.13	15	1
3	B	393	PX4	O7-C23-O8	2.36	129.22	123.70	13	3
3	B	320	PX4	C14-C13-C12	2.35	102.46	114.37	6	1
3	B	335	PX4	C1-C2-N1	2.36	123.38	115.82	5	2
3	B	356	PX4	O5-C9-O6	2.36	129.52	123.63	15	1
3	C	333	PX4	C26-C25-C24	2.35	121.78	113.13	11	1
3	B	301	PX4	C5-N1-C3	2.35	102.79	108.98	14	2
3	B	328	PX4	C5-N1-C4	2.35	102.79	108.98	1	2
3	B	336	PX4	C5-N1-C3	2.35	102.79	108.98	4	2
3	A	619	PX4	O5-C9-O6	2.35	129.51	123.63	13	2
3	B	385	PX4	C26-C25-C24	2.35	104.48	113.13	2	1
3	B	352	PX4	O1-P1-O2	2.35	123.39	112.44	5	3
3	B	368	PX4	C31-C30-C29	2.35	102.49	114.37	1	1
3	C	325	PX4	C11-C10-C9	2.35	105.08	113.69	4	1
3	C	342	PX4	P1-O3-C1	2.35	132.45	121.26	12	2
3	C	361	PX4	O5-C9-O6	2.35	129.51	123.63	15	2
3	B	342	PX4	O7-C23-O8	2.35	129.20	123.70	5	2
3	B	342	PX4	C4-N1-C3	2.35	102.80	108.98	4	4
3	B	388	PX4	O6-C9-C10	2.35	114.59	123.78	14	1
3	B	397	PX4	C8-C7-C6	2.35	106.31	111.78	2	2
3	C	339	PX4	O7-C23-C24	2.35	106.40	111.48	11	4
3	C	364	PX4	C4-N1-C3	2.35	102.80	108.98	14	2
3	A	645	PX4	C25-C24-C23	2.35	122.30	113.69	15	1
3	B	360	PX4	O5-C9-O6	2.35	129.50	123.63	8	3
3	C	345	PX4	C12-C11-C10	2.35	104.50	113.13	6	2
3	C	303	PX4	C12-C11-C10	2.35	104.50	113.13	10	1
3	C	304	PX4	O5-C9-C10	2.35	104.68	111.83	2	2
3	C	335	PX4	O5-C9-C10	2.35	104.68	111.83	15	2
3	C	346	PX4	C3-N1-C2	2.35	100.58	109.91	8	1
3	C	347	PX4	C4-N1-C3	2.35	115.14	108.98	2	2
3	B	317	PX4	C25-C24-C23	2.35	105.10	113.69	13	1
3	B	326	PX4	C27-C26-C25	2.35	102.51	114.37	3	1
3	B	331	PX4	C25-C24-C23	2.35	122.29	113.69	5	2
3	B	363	PX4	C4-N1-C3	2.35	102.81	108.98	6	1
3	B	390	PX4	C5-N1-C3	2.35	102.81	108.98	11	1
3	C	340	PX4	O7-C7-C8	2.35	116.76	108.34	6	2
3	A	603	PX4	C5-N1-C4	2.34	115.13	108.98	2	2
3	B	334	PX4	O7-C7-C8	2.34	116.76	108.34	6	1
3	A	605	PX4	C15-C14-C13	2.34	102.53	114.37	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	609	PX4	C4-N1-C3	2.34	115.13	108.98	9	3
3	A	609	PX4	C5-N1-C4	2.34	102.82	108.98	10	2
3	B	318	PX4	C1-C2-N1	2.34	123.34	115.82	4	1
3	C	327	PX4	C5-N1-C3	2.34	102.82	108.98	4	1
3	A	630	PX4	C11-C10-C9	2.34	122.27	113.69	2	1
3	B	337	PX4	C5-N1-C2	2.34	100.61	109.91	8	1
3	B	380	PX4	O6-C9-C10	2.34	132.94	123.78	3	3
3	C	362	PX4	C8-O5-C9	2.34	108.56	117.12	13	1
3	A	631	PX4	C5-N1-C4	2.34	115.12	108.98	6	2
3	A	633	PX4	C5-N1-C4	2.34	102.83	108.98	9	1
3	B	336	PX4	C8-C7-C6	2.34	117.24	111.78	4	2
3	B	365	PX4	O5-C9-C10	2.34	104.70	111.83	5	1
3	C	334	PX4	O3-C1-C2	2.34	120.91	109.65	15	1
3	A	622	PX4	C19-C18-C17	2.33	102.57	114.37	7	1
3	B	313	PX4	O5-C9-O6	2.33	129.47	123.63	6	2
3	B	334	PX4	O6-C9-C10	2.33	132.91	123.78	9	1
3	B	347	PX4	O7-C23-O8	2.33	129.16	123.70	10	1
3	C	322	PX4	C5-N1-C4	2.33	102.84	108.98	15	3
3	C	354	PX4	O7-C23-O8	2.33	129.16	123.70	13	1
3	B	396	PX4	C11-C10-C9	2.33	122.25	113.69	11	1
3	A	626	PX4	C26-C25-C24	2.33	104.56	113.13	10	1
3	B	308	PX4	C25-C24-C23	2.33	105.15	113.69	10	1
3	B	310	PX4	P1-O4-C6	2.33	134.71	121.35	8	2
3	B	344	PX4	C11-C10-C9	2.33	105.15	113.69	11	1
3	B	370	PX4	O3-C1-C2	2.33	120.87	109.65	8	1
3	B	375	PX4	C11-C10-C9	2.33	122.24	113.69	14	1
3	C	305	PX4	O7-C23-O8	2.33	129.16	123.70	6	1
3	C	322	PX4	O7-C7-C6	2.33	116.71	108.34	3	1
3	B	323	PX4	C8-O5-C9	2.33	108.60	117.12	2	1
3	B	381	PX4	C8-C7-C6	2.33	106.35	111.78	3	2
3	C	320	PX4	C1-C2-N1	2.33	123.30	115.82	12	2
3	B	381	PX4	O5-C9-C10	2.33	104.73	111.83	3	1
3	C	335	PX4	C4-N1-C3	2.33	102.86	108.98	12	1
3	C	335	PX4	C5-N1-C2	2.33	119.17	109.91	14	1
3	C	338	PX4	C28-C27-C26	2.33	102.59	114.37	2	1
3	B	307	PX4	P1-O3-C1	2.33	132.34	121.26	6	1
3	C	310	PX4	C30-C29-C28	2.33	102.60	114.37	11	1
3	A	611	PX4	C5-N1-C3	2.33	115.09	108.98	12	1
3	A	616	PX4	C8-O5-C9	2.33	108.62	117.12	14	1
3	A	629	PX4	C25-C24-C23	2.33	105.17	113.69	10	1
3	B	338	PX4	O3-C1-C2	2.33	120.84	109.65	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	345	PX4	C33-C32-C31	2.33	126.13	114.37	9	1
3	B	399	PX4	C1-C2-N1	2.33	123.29	115.82	15	1
3	C	367	PX4	O3-P1-O2	2.33	99.72	108.94	6	1
3	B	372	PX4	O7-C23-O8	2.32	129.14	123.70	14	1
3	B	374	PX4	O7-C23-O8	2.32	129.14	123.70	8	2
3	B	377	PX4	C34-C33-C32	2.32	126.12	114.37	6	1
3	B	378	PX4	C8-O5-C9	2.33	108.62	117.12	11	2
3	B	387	PX4	C5-N1-C4	2.32	102.87	108.98	10	2
3	C	357	PX4	C1-C2-N1	2.32	123.28	115.82	11	2
3	C	362	PX4	C4-N1-C2	2.33	119.15	109.91	6	1
3	A	641	PX4	O7-C23-O8	2.32	129.14	123.70	1	2
3	B	304	PX4	C5-N1-C4	2.32	115.08	108.98	4	1
3	B	306	PX4	O7-C7-C6	2.32	116.68	108.34	11	1
3	B	328	PX4	O3-C1-C2	2.32	120.83	109.65	14	3
3	B	336	PX4	O1-P1-O2	2.32	123.25	112.44	10	1
3	C	318	PX4	C12-C11-C10	2.32	104.59	113.13	12	1
3	C	338	PX4	O5-C9-C10	2.32	104.75	111.83	4	3
3	B	390	PX4	C4-N1-C3	2.32	115.07	108.98	11	2
3	C	327	PX4	O7-C23-O8	2.32	129.13	123.70	3	3
3	A	635	PX4	O1-P1-O4	2.32	118.08	107.57	15	1
3	A	648	PX4	O7-C23-O8	2.32	129.13	123.70	12	1
3	B	319	PX4	O7-C23-O8	2.32	129.13	123.70	14	2
3	B	321	PX4	C25-C24-C23	2.32	122.19	113.69	5	1
3	B	400	PX4	C8-C7-C6	2.32	117.20	111.78	8	2
3	C	330	PX4	O8-C23-C24	2.32	132.86	123.78	14	1
3	C	333	PX4	C11-C10-C9	2.32	105.19	113.69	15	1
3	C	365	PX4	C12-C11-C10	2.32	104.60	113.13	3	2
3	B	352	PX4	O5-C9-C10	2.32	104.76	111.83	6	1
3	B	354	PX4	O5-C9-C10	2.32	104.76	111.83	10	2
3	B	358	PX4	C1-C2-N1	2.32	123.27	115.82	14	1
3	C	302	PX4	C11-C10-C9	2.32	122.19	113.69	5	1
3	A	615	PX4	O5-C9-O6	2.32	129.42	123.63	3	1
3	A	633	PX4	C26-C25-C24	2.32	121.64	113.13	15	1
3	A	640	PX4	C5-N1-C4	2.32	115.06	108.98	13	1
3	B	308	PX4	C3-N1-C2	2.32	100.70	109.91	6	1
3	B	388	PX4	C11-C10-C9	2.32	105.20	113.69	3	1
3	C	305	PX4	O5-C9-C10	2.32	104.77	111.83	3	4
3	C	310	PX4	C1-C2-N1	2.32	123.26	115.82	13	1
3	C	354	PX4	C27-C26-C25	2.32	102.65	114.37	3	1
3	A	637	PX4	C5-N1-C2	2.32	100.70	109.91	9	2
3	C	314	PX4	C5-N1-C3	2.32	115.06	108.98	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	325	PX4	O5-C9-O6	2.32	129.42	123.63	13	1
3	A	631	PX4	O7-C23-O8	2.31	129.12	123.70	8	1
3	A	641	PX4	C30-C29-C28	2.31	102.67	114.37	5	1
3	C	318	PX4	C5-N1-C2	2.31	119.11	109.91	8	1
3	B	310	PX4	O7-C7-C6	2.31	100.04	108.34	8	1
3	C	343	PX4	C4-N1-C3	2.31	115.05	108.98	14	1
3	C	344	PX4	O5-C9-C10	2.31	104.78	111.83	11	4
3	A	608	PX4	C4-N1-C3	2.31	102.90	108.98	4	2
3	A	617	PX4	C8-C7-C6	2.31	117.17	111.78	8	1
3	A	642	PX4	C5-N1-C4	2.31	115.05	108.98	11	2
3	A	643	PX4	C5-N1-C3	2.31	115.05	108.98	1	4
3	B	322	PX4	O7-C7-C6	2.31	116.64	108.34	6	2
3	B	312	PX4	O3-P1-O2	2.31	118.09	108.94	5	1
3	B	354	PX4	P1-O3-C1	2.31	132.26	121.26	1	1
3	B	375	PX4	C8-C7-C6	2.31	106.39	111.78	2	2
3	A	635	PX4	C33-C32-C31	2.31	102.70	114.37	1	1
3	B	330	PX4	C4-N1-C3	2.31	115.04	108.98	4	1
3	B	346	PX4	C15-C14-C13	2.31	102.70	114.37	13	1
3	B	387	PX4	C5-N1-C3	2.31	115.04	108.98	7	1
3	B	397	PX4	O1-P1-O2	2.31	123.19	112.44	11	1
3	C	322	PX4	C17-C16-C15	2.31	102.70	114.37	6	1
3	C	329	PX4	P1-O3-C1	2.31	110.27	121.26	11	1
3	C	364	PX4	C8-O5-C9	2.31	108.68	117.12	3	1
3	A	615	PX4	C5-N1-C2	2.31	119.08	109.91	8	1
3	B	349	PX4	C11-C10-C9	2.31	105.24	113.69	12	1
3	C	366	PX4	C4-N1-C3	2.31	102.91	108.98	8	1
3	B	353	PX4	C11-C10-C9	2.31	105.24	113.69	5	1
3	C	305	PX4	C4-N1-C3	2.31	102.92	108.98	7	2
3	C	348	PX4	O5-C9-C10	2.31	104.80	111.83	11	2
3	A	624	PX4	O1-P1-O4	2.31	118.02	107.57	14	1
3	A	615	PX4	C25-C24-C23	2.30	105.25	113.69	3	1
3	A	616	PX4	C5-N1-C3	2.31	102.92	108.98	13	2
3	B	326	PX4	O7-C23-O8	2.31	118.32	123.70	3	1
3	B	334	PX4	O3-C1-C2	2.31	120.74	109.65	7	1
3	B	363	PX4	C5-N1-C4	2.31	102.92	108.98	3	1
3	B	391	PX4	O7-C7-C6	2.31	116.61	108.34	15	1
3	C	364	PX4	C5-N1-C4	2.31	115.03	108.98	5	2
3	B	366	PX4	C4-N1-C3	2.30	115.03	108.98	5	3
3	A	630	PX4	C4-N1-C3	2.30	102.93	108.98	7	1
3	B	377	PX4	C25-C24-C23	2.30	105.26	113.69	12	1
3	B	385	PX4	C8-C7-C6	2.30	117.15	111.78	13	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	630	PX4	C25-C24-C23	2.30	105.26	113.69	11	1
3	A	644	PX4	C1-C2-N1	2.30	123.21	115.82	4	2
3	B	369	PX4	O1-P1-O2	2.30	123.15	112.44	7	1
3	C	325	PX4	C4-N1-C2	2.30	119.06	109.91	8	1
3	C	347	PX4	O7-C7-C6	2.30	116.60	108.34	9	1
3	C	356	PX4	O5-C9-C10	2.30	104.82	111.83	6	1
3	C	368	PX4	C8-C7-C6	2.30	117.15	111.78	5	2
3	A	636	PX4	O7-C7-C6	2.30	100.09	108.34	9	1
3	B	305	PX4	C5-N1-C4	2.30	102.94	108.98	8	2
3	B	327	PX4	O7-C23-O8	2.30	129.08	123.70	15	2
3	B	388	PX4	O7-C7-C8	2.30	116.59	108.34	9	1
3	C	302	PX4	C26-C25-C24	2.30	104.68	113.13	10	1
3	C	318	PX4	C4-N1-C3	2.30	102.94	108.98	14	1
3	C	333	PX4	O7-C7-C8	2.30	116.59	108.34	6	2
3	C	336	PX4	O5-C9-O6	2.30	129.38	123.63	7	3
3	A	608	PX4	O5-C9-C10	2.30	104.83	111.83	3	1
3	A	627	PX4	C1-C2-N1	2.30	123.19	115.82	14	1
3	A	640	PX4	C11-C10-C9	2.30	105.28	113.69	12	2
3	A	645	PX4	C8-O5-C9	2.30	108.72	117.12	9	1
3	B	308	PX4	C4-N1-C3	2.30	102.94	108.98	5	1
3	B	335	PX4	O5-C9-O6	2.30	129.37	123.63	11	2
3	C	337	PX4	O3-C1-C2	2.30	98.59	109.65	7	1
3	C	350	PX4	O5-C9-C10	2.30	104.83	111.83	14	2
3	B	309	PX4	C34-C33-C32	2.30	102.76	114.37	3	1
3	B	329	PX4	C8-O5-C9	2.30	108.73	117.12	12	1
3	B	379	PX4	C11-C10-C9	2.30	122.10	113.69	7	2
3	C	311	PX4	C25-C24-C23	2.29	105.28	113.69	2	1
3	C	315	PX4	O3-C1-C2	2.30	120.69	109.65	12	1
3	C	348	PX4	C8-O5-C9	2.30	108.72	117.12	8	1
3	A	607	PX4	C4-N1-C2	2.29	119.02	109.91	14	2
3	A	620	PX4	C34-C33-C32	2.29	102.78	114.37	3	1
3	A	622	PX4	O5-C9-C10	2.29	104.85	111.83	7	1
3	A	642	PX4	O8-C23-C24	2.29	132.75	123.78	12	1
3	B	301	PX4	C4-N1-C2	2.29	100.79	109.91	13	1
3	B	391	PX4	O7-C7-C8	2.29	116.57	108.34	8	1
3	C	323	PX4	C11-C10-C9	2.29	105.29	113.69	12	1
3	B	355	PX4	P1-O3-C1	2.29	132.17	121.26	15	1
3	B	311	PX4	C8-O5-C9	2.29	108.75	117.12	15	3
3	B	323	PX4	C12-C11-C10	2.29	104.71	113.13	8	1
3	B	329	PX4	C25-C24-C23	2.29	122.09	113.69	2	1
3	B	357	PX4	C11-C10-C9	2.29	122.09	113.69	14	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	370	PX4	O7-C7-C8	2.29	116.57	108.34	11	1
3	A	620	PX4	O7-C7-C6	2.29	100.13	108.34	15	1
3	B	330	PX4	O5-C8-C7	2.29	115.00	108.40	12	3
3	A	618	PX4	C5-N1-C3	2.29	114.99	108.98	13	3
3	B	336	PX4	P1-O4-C6	2.29	134.47	121.35	3	1
3	B	338	PX4	C16-C15-C14	2.29	102.79	114.37	2	1
3	A	642	PX4	O3-C1-C2	2.29	120.66	109.65	7	2
3	B	314	PX4	C12-C11-C10	2.29	121.53	113.13	11	1
3	B	320	PX4	C5-N1-C4	2.29	102.97	108.98	15	1
3	B	351	PX4	C5-N1-C3	2.29	102.96	108.98	6	1
3	B	351	PX4	P1-O4-C6	2.29	108.23	121.35	8	1
3	C	307	PX4	O5-C9-O6	2.29	129.35	123.63	5	1
3	C	318	PX4	C5-N1-C3	2.29	114.99	108.98	6	2
3	C	315	PX4	C1-C2-N1	2.29	123.17	115.82	14	2
3	C	334	PX4	O7-C7-C6	2.29	100.13	108.34	8	1
3	B	320	PX4	C1-C2-N1	2.29	123.16	115.82	8	2
3	B	350	PX4	C8-O5-C9	2.29	108.76	117.12	4	1
3	C	352	PX4	O5-C8-C7	2.29	114.99	108.40	10	2
3	A	615	PX4	P1-O3-C1	2.29	132.14	121.26	3	1
3	A	633	PX4	O7-C23-O8	2.29	129.05	123.70	3	2
3	B	335	PX4	C5-N1-C2	2.29	119.00	109.91	13	1
3	B	364	PX4	C25-C24-C23	2.29	122.07	113.69	7	1
3	B	392	PX4	O1-P1-O4	2.29	117.93	107.57	1	1
3	A	612	PX4	C8-C7-C6	2.28	117.11	111.78	12	2
3	B	356	PX4	C5-N1-C3	2.28	102.97	108.98	10	1
3	B	368	PX4	O5-C9-O6	2.29	129.34	123.63	13	3
3	B	372	PX4	C4-N1-C3	2.28	102.97	108.98	14	1
3	C	319	PX4	O1-P1-O2	2.28	123.07	112.44	11	1
3	C	361	PX4	C26-C25-C24	2.28	121.52	113.13	1	2
3	B	340	PX4	O7-C7-C6	2.28	116.53	108.34	8	1
3	B	341	PX4	C25-C24-C23	2.28	122.06	113.69	15	1
3	B	376	PX4	O7-C7-C8	2.28	116.53	108.34	1	1
3	B	399	PX4	C26-C25-C24	2.28	104.74	113.13	14	2
3	A	612	PX4	C25-C24-C23	2.28	105.33	113.69	2	3
3	A	615	PX4	C1-C2-N1	2.28	123.14	115.82	9	1
3	A	640	PX4	C12-C11-C10	2.28	104.74	113.13	9	1
3	B	319	PX4	C8-C7-C6	2.28	106.47	111.78	6	5
3	B	350	PX4	C4-N1-C3	2.28	102.98	108.98	9	1
3	B	389	PX4	P1-O3-C1	2.28	132.12	121.26	12	1
3	C	340	PX4	O7-C7-C6	2.28	116.53	108.34	5	2
3	C	349	PX4	O5-C9-C10	2.28	104.88	111.83	10	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	621	PX4	O3-C1-C2	2.28	120.61	109.65	9	1
3	C	328	PX4	O7-C23-O8	2.28	129.03	123.70	5	3
3	C	355	PX4	O5-C9-O6	2.28	129.33	123.63	5	1
3	B	308	PX4	C26-C25-C24	2.28	104.75	113.13	7	2
3	C	355	PX4	O7-C7-C8	2.28	116.52	108.34	5	1
3	A	623	PX4	C1-C2-N1	2.28	123.13	115.82	13	2
3	A	634	PX4	O6-C9-C10	2.28	132.69	123.78	2	1
3	B	302	PX4	C1-C2-N1	2.28	123.13	115.82	8	2
3	C	304	PX4	O7-C23-C24	2.28	106.55	111.48	12	1
3	B	324	PX4	O7-C7-C8	2.28	116.51	108.34	7	1
3	B	369	PX4	C5-N1-C3	2.28	103.00	108.98	7	1
3	B	395	PX4	C5-N1-C4	2.28	103.00	108.98	3	3
3	B	400	PX4	O5-C9-O6	2.28	129.32	123.63	12	1
3	C	345	PX4	C18-C17-C16	2.28	102.86	114.37	3	1
3	C	362	PX4	O1-P1-O2	2.28	123.03	112.44	3	1
3	B	378	PX4	C8-C7-C6	2.27	117.08	111.78	15	4
3	B	394	PX4	O4-P1-O2	2.27	99.93	108.94	2	1
3	C	311	PX4	O5-C9-C10	2.27	104.90	111.83	13	2
3	C	366	PX4	C5-N1-C3	2.28	103.00	108.98	2	1
3	B	320	PX4	O7-C7-C8	2.27	116.50	108.34	14	1
3	B	326	PX4	C3-N1-C2	2.27	118.95	109.91	1	1
3	C	324	PX4	O5-C9-O6	2.27	129.31	123.63	8	3
3	C	336	PX4	C26-C25-C24	2.27	104.77	113.13	9	1
3	A	627	PX4	O3-C1-C2	2.27	120.58	109.65	1	1
3	A	621	PX4	C12-C11-C10	2.27	121.47	113.13	7	1
3	A	630	PX4	C5-N1-C4	2.27	114.94	108.98	4	1
3	B	395	PX4	C4-N1-C3	2.27	114.94	108.98	14	3
3	C	321	PX4	C4-N1-C2	2.27	118.94	109.91	5	1
3	C	335	PX4	C8-C7-C6	2.27	106.49	111.78	11	3
3	B	335	PX4	O1-P1-O3	2.27	117.86	107.57	11	1
3	C	318	PX4	C4-N1-C2	2.27	100.88	109.91	13	1
3	C	325	PX4	C5-N1-C3	2.27	103.01	108.98	9	1
3	B	303	PX4	C5-N1-C2	2.27	118.93	109.91	15	1
3	B	308	PX4	C8-C7-C6	2.27	106.50	111.78	15	2
3	B	313	PX4	C25-C24-C23	2.27	105.38	113.69	11	1
3	C	359	PX4	O7-C23-O8	2.27	129.01	123.70	13	4
3	A	607	PX4	C26-C25-C24	2.27	121.46	113.13	2	1
3	B	304	PX4	O5-C9-C10	2.27	104.92	111.83	4	2
3	B	318	PX4	O1-P1-O2	2.27	123.00	112.44	6	1
3	B	335	PX4	C4-N1-C3	2.27	103.02	108.98	9	2
3	C	315	PX4	C36-C35-C34	2.27	128.67	113.36	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	601	PX4	C8-C7-C6	2.27	106.50	111.78	4	1
3	B	389	PX4	O1-P1-O2	2.27	122.99	112.44	7	2
3	A	640	PX4	C16-C15-C14	2.27	102.92	114.37	4	1
3	A	645	PX4	O1-P1-O3	2.26	117.83	107.57	12	1
3	B	307	PX4	O5-C9-C10	2.26	104.93	111.83	5	2
3	B	333	PX4	C12-C11-C10	2.26	121.45	113.13	4	1
3	B	334	PX4	C8-O5-C9	2.26	125.39	117.12	9	1
3	C	337	PX4	O1-P1-O2	2.27	122.98	112.44	5	1
3	B	340	PX4	O5-C9-C10	2.26	104.93	111.83	13	1
3	B	351	PX4	C31-C30-C29	2.26	102.93	114.37	8	1
3	B	358	PX4	C11-C10-C9	2.26	105.40	113.69	9	1
3	B	390	PX4	O1-P1-O2	2.26	122.97	112.44	1	1
3	B	397	PX4	O6-C9-C10	2.26	132.63	123.78	1	1
3	B	397	PX4	C26-C25-C24	2.26	121.44	113.13	10	1
3	C	332	PX4	O5-C9-O6	2.26	129.29	123.63	3	1
3	C	335	PX4	P1-O4-C6	2.26	134.32	121.35	4	1
3	C	338	PX4	C15-C14-C13	2.26	102.93	114.37	15	1
3	B	346	PX4	O1-P1-O3	2.26	117.81	107.57	14	1
3	B	353	PX4	O7-C7-C6	2.26	116.45	108.34	8	2
3	B	373	PX4	O1-P1-O3	2.26	117.81	107.57	10	1
3	B	384	PX4	C30-C29-C28	2.26	102.94	114.37	14	1
3	C	352	PX4	O3-C1-C2	2.26	120.53	109.65	13	2
3	B	360	PX4	C26-C25-C24	2.26	104.82	113.13	8	1
3	A	615	PX4	C5-N1-C3	2.26	114.91	108.98	6	1
3	B	338	PX4	O7-C7-C6	2.26	116.45	108.34	12	3
3	B	340	PX4	C11-C10-C9	2.26	105.41	113.69	1	1
3	C	314	PX4	C11-C10-C9	2.26	121.98	113.69	7	2
3	A	636	PX4	C25-C24-C23	2.26	105.42	113.69	3	1
3	C	326	PX4	C32-C31-C30	2.26	125.79	114.37	6	1
3	B	372	PX4	C32-C31-C30	2.26	102.96	114.37	10	1
3	B	393	PX4	C30-C29-C28	2.26	102.96	114.37	8	1
3	B	325	PX4	C11-C10-C9	2.26	121.96	113.69	2	1
3	B	338	PX4	C5-N1-C3	2.26	103.05	108.98	11	2
3	C	339	PX4	O5-C9-C10	2.26	104.96	111.83	2	1
3	A	611	PX4	C1-C2-N1	2.25	123.06	115.82	15	1
3	A	605	PX4	O5-C9-C10	2.25	104.97	111.83	13	1
3	A	629	PX4	C11-C10-C9	2.25	105.44	113.69	15	1
3	A	637	PX4	O7-C7-C8	2.25	116.43	108.34	1	1
3	A	610	PX4	O5-C9-C10	2.25	104.97	111.83	7	1
3	A	634	PX4	O8-C23-C24	2.25	132.59	123.78	11	1
3	A	645	PX4	O7-C7-C6	2.25	116.42	108.34	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	648	PX4	C14-C13-C12	2.25	102.98	114.37	4	1
3	B	303	PX4	O1-P1-O2	2.25	122.93	112.44	12	1
3	C	325	PX4	O7-C23-O8	2.25	128.97	123.70	7	2
3	C	355	PX4	O5-C8-C7	2.25	114.89	108.40	14	2
3	B	372	PX4	C3-N1-C2	2.25	118.86	109.91	11	1
3	C	316	PX4	O7-C7-C6	2.25	116.42	108.34	1	1
3	C	340	PX4	C8-O5-C9	2.25	125.35	117.12	13	1
3	A	636	PX4	C34-C33-C32	2.25	103.00	114.37	8	1
3	B	302	PX4	C5-N1-C3	2.25	103.06	108.98	4	1
3	B	346	PX4	C1-C2-N1	2.25	123.04	115.82	7	1
3	B	353	PX4	O8-C23-C24	2.25	132.58	123.78	2	1
3	C	338	PX4	C25-C24-C23	2.25	121.94	113.69	2	1
3	A	634	PX4	C1-C2-N1	2.25	123.04	115.82	2	1
3	B	314	PX4	C8-C7-C6	2.25	117.03	111.78	6	2
3	B	340	PX4	O1-P1-O2	2.25	122.91	112.44	4	2
3	B	369	PX4	O7-C7-C8	2.25	116.41	108.34	11	2
3	A	639	PX4	C26-C25-C24	2.25	121.38	113.13	15	1
3	A	646	PX4	C16-C15-C14	2.25	103.01	114.37	1	1
3	B	356	PX4	C4-N1-C3	2.25	103.07	108.98	11	2
3	B	397	PX4	C11-C10-C9	2.25	105.46	113.69	3	1
3	C	316	PX4	O5-C9-C10	2.25	104.98	111.83	4	1
3	C	360	PX4	O7-C7-C8	2.25	116.41	108.34	14	2
3	A	606	PX4	C26-C25-C24	2.25	121.38	113.13	6	1
3	A	619	PX4	C5-N1-C3	2.25	114.87	108.98	10	1
3	A	602	PX4	C5-N1-C3	2.24	114.87	108.98	14	3
3	A	610	PX4	C5-N1-C4	2.24	103.08	108.98	5	3
3	A	625	PX4	O3-P1-O2	2.24	100.04	108.94	2	1
3	B	320	PX4	C26-C25-C24	2.24	104.88	113.13	6	1
3	B	360	PX4	C12-C11-C10	2.25	104.88	113.13	5	1
3	B	387	PX4	O4-P1-O2	2.25	117.83	108.94	8	3
3	C	320	PX4	C31-C30-C29	2.24	103.02	114.37	8	1
3	C	363	PX4	O5-C8-C7	2.25	114.87	108.40	7	2
3	A	627	PX4	C5-N1-C3	2.24	103.08	108.98	4	2
3	A	630	PX4	C8-O5-C9	2.24	125.32	117.12	14	2
3	A	646	PX4	O7-C7-C6	2.24	100.29	108.34	13	1
3	B	334	PX4	C27-C26-C25	2.24	125.71	114.37	13	1
3	B	369	PX4	C19-C18-C17	2.24	103.03	114.37	14	1
3	B	374	PX4	O5-C9-C10	2.24	105.00	111.83	13	5
3	B	381	PX4	O1-P1-O4	2.24	117.73	107.57	1	1
3	C	306	PX4	C11-C10-C9	2.24	105.47	113.69	5	1
3	A	621	PX4	C29-C28-C27	2.24	103.04	114.37	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	624	PX4	C12-C11-C10	2.24	104.89	113.13	8	1
3	B	301	PX4	C1-C2-N1	2.24	123.02	115.82	2	1
3	B	361	PX4	O7-C7-C6	2.24	116.39	108.34	14	2
3	C	310	PX4	C11-C10-C9	2.24	105.48	113.69	7	1
3	B	386	PX4	P1-O3-C1	2.24	131.93	121.26	2	1
3	B	317	PX4	O5-C9-C10	2.24	105.01	111.83	8	2
3	B	400	PX4	C20-C19-C18	2.24	103.04	114.37	1	1
3	A	606	PX4	C4-N1-C3	2.24	114.85	108.98	3	1
3	A	629	PX4	C8-C7-C6	2.24	106.57	111.78	3	1
3	A	648	PX4	C8-O5-C9	2.24	108.94	117.12	1	1
3	B	312	PX4	O7-C7-C8	2.24	116.37	108.34	2	1
3	C	307	PX4	C26-C25-C24	2.24	104.90	113.13	13	1
3	B	374	PX4	O7-C7-C6	2.24	116.37	108.34	6	1
3	C	330	PX4	C5-N1-C2	2.24	118.81	109.91	9	1
3	B	327	PX4	C26-C25-C24	2.24	104.91	113.13	4	1
3	B	322	PX4	C1-C2-N1	2.24	123.00	115.82	9	2
3	C	301	PX4	O5-C9-O6	2.24	129.22	123.63	1	1
3	C	331	PX4	O7-C23-O8	2.24	118.48	123.70	11	2
3	C	361	PX4	C5-N1-C3	2.24	114.85	108.98	11	3
3	A	621	PX4	C5-N1-C3	2.23	103.11	108.98	9	1
3	B	342	PX4	C5-N1-C3	2.23	114.84	108.98	10	1
3	B	390	PX4	O7-C7-C6	2.23	100.33	108.34	1	1
3	B	392	PX4	C5-N1-C4	2.23	103.11	108.98	3	2
3	B	396	PX4	O1-P1-O2	2.23	122.83	112.44	14	1
3	C	309	PX4	C26-C25-C24	2.23	121.34	113.13	9	1
3	C	329	PX4	C5-N1-C3	2.23	103.11	108.98	4	1
3	C	326	PX4	C1-C2-N1	2.23	122.99	115.82	13	1
3	C	362	PX4	O7-C23-C24	2.23	106.65	111.48	6	3
3	A	630	PX4	C12-C11-C10	2.23	121.33	113.13	7	1
3	A	643	PX4	C1-C2-N1	2.23	122.99	115.82	6	1
3	A	603	PX4	C30-C29-C28	2.23	103.09	114.37	7	1
3	A	610	PX4	C33-C32-C31	2.23	125.65	114.37	11	1
3	A	617	PX4	C12-C11-C10	2.23	104.93	113.13	10	1
3	B	343	PX4	C4-N1-C2	2.23	118.78	109.91	5	1
3	B	376	PX4	C5-N1-C3	2.23	114.84	108.98	12	1
3	C	321	PX4	C26-C25-C24	2.23	121.32	113.13	8	1
3	C	323	PX4	C27-C26-C25	2.23	103.10	114.37	2	1
3	C	354	PX4	O3-C1-C2	2.23	120.38	109.65	2	2
3	C	363	PX4	O3-P1-O2	2.23	100.09	108.94	10	1
3	C	370	PX4	C4-N1-C3	2.23	114.84	108.98	14	1
3	A	622	PX4	C4-N1-C3	2.23	114.83	108.98	1	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	624	PX4	C8-C7-C6	2.23	106.59	111.78	1	2
3	A	632	PX4	C25-C24-C23	2.23	105.53	113.69	6	1
3	A	623	PX4	C31-C30-C29	2.23	103.11	114.37	1	1
3	B	316	PX4	O5-C9-C10	2.23	105.04	111.83	10	1
3	B	388	PX4	O5-C9-O6	2.23	129.20	123.63	2	1
3	B	394	PX4	C3-N1-C2	2.23	118.77	109.91	8	1
3	C	339	PX4	C5-N1-C4	2.23	103.12	108.98	15	1
3	C	345	PX4	C8-O5-C9	2.23	108.97	117.12	12	1
3	C	368	PX4	O7-C7-C8	2.23	116.34	108.34	10	1
3	C	370	PX4	C16-C15-C14	2.23	103.10	114.37	10	2
3	A	643	PX4	C25-C24-C23	2.23	105.53	113.69	8	1
3	B	371	PX4	C4-N1-C3	2.23	103.12	108.98	5	2
3	B	371	PX4	C28-C27-C26	2.23	103.11	114.37	11	2
3	B	365	PX4	O5-C8-C7	2.23	114.81	108.40	5	3
3	B	400	PX4	O5-C9-C10	2.23	105.04	111.83	14	1
3	C	365	PX4	O5-C9-O6	2.23	129.20	123.63	13	2
3	A	618	PX4	O7-C7-C6	2.23	116.33	108.34	9	3
3	B	314	PX4	O5-C9-C10	2.22	105.05	111.83	15	1
3	B	352	PX4	O7-C23-O8	2.23	128.91	123.70	6	1
3	C	303	PX4	C4-N1-C3	2.23	103.13	108.98	7	2
3	C	310	PX4	C8-C7-C6	2.23	116.97	111.78	2	2
3	A	616	PX4	C26-C25-C24	2.22	121.30	113.13	4	1
3	B	395	PX4	C1-C2-N1	2.22	122.96	115.82	10	2
3	C	323	PX4	O1-P1-O3	2.22	117.65	107.57	3	1
3	A	627	PX4	C25-C24-C23	2.22	105.55	113.69	7	1
3	A	629	PX4	O5-C9-C10	2.22	105.06	111.83	10	3
3	B	327	PX4	C1-C2-N1	2.22	122.95	115.82	12	1
3	B	345	PX4	C11-C10-C9	2.22	105.55	113.69	9	1
3	C	327	PX4	O7-C7-C8	2.22	116.32	108.34	6	1
3	C	333	PX4	O5-C9-C10	2.22	105.05	111.83	1	1
3	A	644	PX4	O3-C1-C2	2.22	120.34	109.65	12	1
3	B	303	PX4	O7-C7-C6	2.22	116.31	108.34	11	1
3	B	329	PX4	O5-C9-C10	2.22	105.06	111.83	14	2
3	B	334	PX4	C25-C24-C23	2.22	121.83	113.69	10	1
3	C	304	PX4	C26-C25-C24	2.22	121.29	113.13	12	1
3	B	370	PX4	O5-C9-O6	2.22	129.18	123.63	10	2
3	B	375	PX4	C1-C2-N1	2.22	122.95	115.82	10	1
3	B	362	PX4	C3-N1-C2	2.22	101.08	109.91	1	1
3	C	314	PX4	O3-C1-C2	2.22	120.33	109.65	8	1
3	B	365	PX4	O3-P1-O2	2.22	100.14	108.94	15	1
3	C	314	PX4	P1-O3-C1	2.22	131.83	121.26	11	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	366	PX4	C33-C32-C31	2.22	125.59	114.37	12	1
3	B	308	PX4	O7-C7-C8	2.22	116.30	108.34	5	2
3	B	314	PX4	P1-O3-C1	2.22	131.82	121.26	4	1
3	B	355	PX4	C1-C2-N1	2.22	122.94	115.82	1	1
3	C	317	PX4	O7-C7-C8	2.22	116.30	108.34	12	2
3	B	340	PX4	C25-C24-C23	2.22	121.82	113.69	9	2
3	B	399	PX4	O7-C23-O8	2.22	128.89	123.70	11	1
3	B	364	PX4	O5-C9-O6	2.22	129.17	123.63	9	1
3	B	383	PX4	C8-C7-C6	2.22	116.95	111.78	10	1
3	C	356	PX4	C4-N1-C3	2.22	103.15	108.98	3	1
3	A	606	PX4	O7-C7-C6	2.21	116.29	108.34	2	1
3	A	631	PX4	O5-C9-C10	2.21	105.08	111.83	15	1
3	A	635	PX4	O7-C7-C6	2.21	116.29	108.34	3	2
3	B	322	PX4	C13-C12-C11	2.21	103.17	114.37	9	1
3	B	384	PX4	O5-C9-C10	2.22	105.08	111.83	9	1
3	C	313	PX4	C5-N1-C4	2.21	103.16	108.98	4	1
3	C	331	PX4	O3-C1-C2	2.22	120.31	109.65	2	1
3	B	325	PX4	C26-C25-C24	2.21	104.99	113.13	7	2
3	B	352	PX4	C8-O5-C9	2.21	109.03	117.12	3	2
3	B	379	PX4	O5-C9-C10	2.21	105.09	111.83	15	1
3	C	344	PX4	C28-C27-C26	2.21	103.18	114.37	6	1
3	C	360	PX4	C8-O5-C9	2.21	109.03	117.12	11	1
3	B	384	PX4	C8-C7-C6	2.21	106.63	111.78	2	1
3	B	391	PX4	O7-C23-O8	2.21	128.88	123.70	11	1
3	C	363	PX4	O7-C23-O8	2.21	128.88	123.70	2	2
3	A	622	PX4	C1-C2-N1	2.21	122.92	115.82	7	1
3	A	642	PX4	O7-C7-C6	2.21	116.28	108.34	3	1
3	B	303	PX4	O5-C8-C7	2.21	114.77	108.40	13	4
3	B	349	PX4	O7-C7-C6	2.21	116.28	108.34	5	2
3	B	359	PX4	O7-C23-C24	2.21	106.70	111.48	12	2
3	B	365	PX4	C3-N1-C2	2.21	118.70	109.91	2	2
3	B	400	PX4	O4-P1-O2	2.21	100.17	108.94	1	1
3	C	301	PX4	O5-C9-C10	2.21	105.09	111.83	5	2
3	C	304	PX4	O3-C1-C2	2.21	120.29	109.65	3	1
3	C	309	PX4	O5-C9-C10	2.21	105.09	111.83	13	1
3	C	311	PX4	C13-C12-C11	2.21	103.19	114.37	2	2
3	C	318	PX4	C26-C25-C24	2.21	105.00	113.13	10	2
3	C	321	PX4	C1-C2-N1	2.21	122.92	115.82	13	1
3	C	338	PX4	P1-O3-C1	2.21	131.79	121.26	3	2
3	A	633	PX4	C30-C29-C28	2.21	103.20	114.37	13	1
3	B	316	PX4	C1-C2-N1	2.21	122.92	115.82	10	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	645	PX4	O5-C9-C10	2.21	105.10	111.83	11	2
3	B	316	PX4	C8-O5-C9	2.21	109.04	117.12	6	1
3	B	340	PX4	P1-O4-C6	2.21	108.70	121.35	9	1
3	B	345	PX4	O1-P1-O2	2.21	122.71	112.44	9	1
3	C	350	PX4	C15-C14-C13	2.21	125.53	114.37	15	1
3	C	359	PX4	O5-C8-C7	2.21	114.76	108.40	15	1
3	C	368	PX4	C26-C25-C24	2.21	121.24	113.13	8	1
3	B	305	PX4	C4-N1-C2	2.21	118.67	109.91	9	1
3	B	342	PX4	O8-C23-C24	2.21	132.41	123.78	4	1
3	B	348	PX4	C1-C2-N1	2.21	122.90	115.82	1	1
3	B	381	PX4	C12-C11-C10	2.21	121.23	113.13	1	1
3	B	369	PX4	C8-O5-C9	2.20	109.06	117.12	15	1
3	C	307	PX4	C5-N1-C3	2.20	103.19	108.98	7	1
3	C	310	PX4	C5-N1-C4	2.21	103.18	108.98	5	1
3	C	319	PX4	C5-N1-C2	2.21	118.68	109.91	10	1
3	C	334	PX4	C8-O5-C9	2.20	109.06	117.12	10	1
3	C	343	PX4	O5-C9-C10	2.20	105.11	111.83	11	1
3	C	352	PX4	C8-O5-C9	2.21	109.06	117.12	6	1
3	C	357	PX4	P1-O3-C1	2.20	131.75	121.26	13	1
3	C	359	PX4	O5-C9-O6	2.21	129.14	123.63	1	2
3	B	305	PX4	O7-C7-C6	2.20	100.44	108.34	14	1
3	B	341	PX4	C12-C11-C10	2.20	121.22	113.13	12	2
3	B	309	PX4	O7-C7-C6	2.20	100.44	108.34	7	1
3	B	357	PX4	O1-P1-O2	2.20	122.69	112.44	6	1
3	B	384	PX4	O1-P1-O2	2.20	122.69	112.44	8	2
3	B	386	PX4	C32-C31-C30	2.20	125.50	114.37	9	1
3	C	301	PX4	O3-C1-C2	2.20	120.25	109.65	2	2
3	C	342	PX4	O3-P1-O2	2.20	100.20	108.94	10	1
3	A	644	PX4	O4-P1-O2	2.20	117.66	108.94	12	1
3	A	646	PX4	C5-N1-C4	2.20	114.76	108.98	13	2
3	B	325	PX4	O7-C7-C8	2.20	116.24	108.34	6	1
3	B	350	PX4	P1-O3-C1	2.20	131.74	121.26	11	1
3	B	387	PX4	O7-C7-C6	2.20	116.24	108.34	8	1
3	C	304	PX4	P1-O4-C6	2.20	133.97	121.35	2	1
3	A	611	PX4	O7-C23-O8	2.20	128.85	123.70	4	1
3	B	330	PX4	C1-C2-N1	2.20	122.89	115.82	15	1
3	C	309	PX4	P1-O3-C1	2.20	110.78	121.26	10	1
3	C	325	PX4	O1-P1-O2	2.20	122.68	112.44	12	1
3	B	303	PX4	C8-O5-C9	2.20	109.08	117.12	14	2
3	C	322	PX4	C5-N1-C2	2.20	118.65	109.91	5	1
3	B	313	PX4	C31-C30-C29	2.20	103.26	114.37	12	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	320	PX4	C11-C10-C9	2.20	105.64	113.69	2	2
3	B	359	PX4	O1-P1-O3	2.20	117.53	107.57	3	1
3	C	316	PX4	C1-C2-N1	2.20	122.88	115.82	12	1
3	C	351	PX4	C11-C10-C9	2.20	105.64	113.69	11	1
3	C	370	PX4	P1-O4-C6	2.20	133.96	121.35	11	1
3	C	328	PX4	O5-C9-C10	2.20	105.13	111.83	15	1
3	C	346	PX4	C34-C33-C32	2.20	103.26	114.37	1	1
3	C	365	PX4	C31-C30-C29	2.20	103.25	114.37	14	1
3	A	643	PX4	C8-C7-C6	2.20	116.91	111.78	12	1
3	C	320	PX4	C8-C7-C6	2.20	106.66	111.78	15	2
3	C	335	PX4	C5-N1-C4	2.20	103.20	108.98	1	2
3	C	369	PX4	O5-C9-O6	2.20	129.13	123.63	3	1
3	B	318	PX4	C27-C26-C25	2.20	103.26	114.37	7	1
3	A	620	PX4	P1-O3-C1	2.20	131.71	121.26	3	1
3	B	310	PX4	O7-C7-C8	2.20	116.22	108.34	9	1
3	B	380	PX4	O7-C23-O8	2.20	128.84	123.70	12	2
3	B	351	PX4	O5-C8-C7	2.20	114.72	108.40	15	3
3	A	608	PX4	C15-C14-C13	2.19	125.46	114.37	7	1
3	A	624	PX4	C16-C15-C14	2.19	103.28	114.37	15	1
3	A	642	PX4	P1-O3-C1	2.19	131.71	121.26	13	1
3	B	352	PX4	C25-C24-C23	2.19	121.74	113.69	10	1
3	B	386	PX4	O7-C7-C8	2.19	116.21	108.34	11	2
3	B	393	PX4	C8-O5-C9	2.19	109.10	117.12	6	1
3	A	601	PX4	C12-C11-C10	2.19	105.07	113.13	6	1
3	A	629	PX4	C26-C25-C24	2.19	105.07	113.13	13	1
3	B	308	PX4	C16-C15-C14	2.19	103.28	114.37	2	1
3	B	330	PX4	O7-C23-O8	2.19	128.83	123.70	8	2
3	C	318	PX4	O7-C23-C24	2.19	106.74	111.48	9	1
3	C	348	PX4	C25-C24-C23	2.19	105.66	113.69	11	2
3	C	353	PX4	O5-C9-C10	2.19	105.15	111.83	6	2
3	B	311	PX4	O5-C9-O6	2.19	129.11	123.63	6	1
3	B	312	PX4	O7-C23-O8	2.19	128.83	123.70	11	2
3	B	319	PX4	C5-N1-C4	2.19	103.22	108.98	14	1
3	C	311	PX4	O5-C9-O6	2.19	129.11	123.63	5	1
3	A	636	PX4	C8-O5-C9	2.19	109.11	117.12	11	1
3	B	319	PX4	O7-C7-C6	2.19	116.20	108.34	1	1
3	B	354	PX4	O5-C9-O6	2.19	129.11	123.63	5	3
3	C	314	PX4	P1-O4-C6	2.19	108.79	121.35	10	1
3	B	354	PX4	O8-C23-C24	2.19	132.35	123.78	10	1
3	B	373	PX4	C25-C24-C23	2.19	121.72	113.69	5	1
3	C	356	PX4	O5-C9-O6	2.19	129.11	123.63	5	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	359	PX4	C8-O5-C9	2.19	109.11	117.12	2	2
3	B	362	PX4	O7-C7-C6	2.19	116.19	108.34	11	1
3	C	325	PX4	C5-N1-C2	2.19	118.60	109.91	14	1
3	A	637	PX4	O5-C9-C10	2.18	105.17	111.83	6	1
3	B	348	PX4	O3-P1-O2	2.19	100.27	108.94	6	1
3	B	354	PX4	O7-C23-O8	2.19	128.81	123.70	6	4
3	B	379	PX4	O7-C7-C8	2.19	116.18	108.34	7	1
3	B	391	PX4	C19-C18-C17	2.19	125.41	114.37	2	2
3	C	317	PX4	C25-C24-C23	2.19	121.70	113.69	5	2
3	C	337	PX4	C1-C2-N1	2.19	122.84	115.82	14	1
3	C	366	PX4	C8-O5-C9	2.19	109.13	117.12	9	1
3	A	644	PX4	C25-C24-C23	2.18	105.69	113.69	3	1
3	A	611	PX4	C19-C18-C17	2.18	103.33	114.37	8	1
3	A	630	PX4	C28-C27-C26	2.18	103.33	114.37	13	1
3	A	640	PX4	C31-C30-C29	2.18	103.33	114.37	3	1
3	B	393	PX4	O1-P1-O4	2.18	117.47	107.57	7	1
3	B	381	PX4	O7-C23-O8	2.18	128.81	123.70	5	2
3	B	382	PX4	C28-C27-C26	2.18	103.33	114.37	1	1
3	C	331	PX4	C8-O5-C9	2.18	109.13	117.12	13	1
3	A	644	PX4	O8-C23-C24	2.18	132.32	123.78	14	1
3	A	604	PX4	C4-N1-C3	2.18	103.24	108.98	13	2
3	B	306	PX4	C4-N1-C3	2.18	114.71	108.98	5	2
3	B	324	PX4	O5-C9-C10	2.18	105.18	111.83	10	1
3	C	330	PX4	P1-O3-C1	2.18	131.65	121.26	9	1
3	B	354	PX4	C13-C12-C11	2.18	103.34	114.37	6	1
3	B	372	PX4	C5-N1-C4	2.18	103.25	108.98	11	1
3	B	399	PX4	O7-C23-C24	2.18	106.76	111.48	14	2
3	C	351	PX4	C27-C26-C25	2.18	103.34	114.37	4	2
3	C	361	PX4	C17-C16-C15	2.18	103.34	114.37	14	1
3	B	309	PX4	P1-O4-C6	2.18	133.85	121.35	8	1
3	A	609	PX4	C1-C2-N1	2.18	122.82	115.82	2	1
3	A	621	PX4	C25-C24-C23	2.18	105.71	113.69	2	1
3	B	374	PX4	O5-C9-O6	2.18	129.08	123.63	2	3
3	C	340	PX4	O7-C23-O8	2.18	128.80	123.70	10	1
3	C	354	PX4	O5-C9-O6	2.18	129.08	123.63	14	3
3	A	621	PX4	O5-C9-C10	2.18	105.19	111.83	11	2
3	B	358	PX4	C25-C24-C23	2.18	105.71	113.69	14	1
3	B	382	PX4	O7-C23-C24	2.18	106.77	111.48	9	1
3	B	388	PX4	C5-N1-C4	2.18	103.25	108.98	5	3
3	B	384	PX4	C16-C15-C14	2.18	103.36	114.37	1	1
3	C	324	PX4	C8-O5-C9	2.18	109.16	117.12	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	328	PX4	C5-N1-C3	2.18	103.25	108.98	2	1
3	C	349	PX4	C25-C24-C23	2.18	121.68	113.69	3	1
3	C	358	PX4	C26-C25-C24	2.18	121.13	113.13	10	1
3	A	610	PX4	O7-C7-C6	2.18	116.15	108.34	15	1
3	A	624	PX4	O5-C9-O6	2.18	129.07	123.63	12	1
3	B	376	PX4	O1-P1-O2	2.18	122.57	112.44	5	2
3	C	301	PX4	C8-O5-C9	2.18	125.07	117.12	8	2
3	C	349	PX4	C20-C19-C18	2.18	103.36	114.37	7	1
3	C	304	PX4	C4-N1-C2	2.18	118.56	109.91	14	1
3	A	648	PX4	C26-C25-C24	2.17	121.11	113.13	9	1
3	B	373	PX4	O3-C1-C2	2.17	120.11	109.65	13	1
3	C	307	PX4	C5-N1-C4	2.17	103.27	108.98	11	2
3	C	337	PX4	O5-C9-C10	2.17	105.21	111.83	5	1
3	B	355	PX4	O1-P1-O2	2.17	122.55	112.44	7	1
3	B	359	PX4	C12-C11-C10	2.17	105.14	113.13	9	1
3	B	395	PX4	O5-C9-O6	2.17	129.06	123.63	6	3
3	A	648	PX4	O5-C9-O6	2.17	129.06	123.63	11	2
3	B	307	PX4	C30-C29-C28	2.17	103.39	114.37	10	1
3	C	312	PX4	C11-C10-C9	2.17	121.65	113.69	12	1
3	C	337	PX4	C4-N1-C3	2.17	103.27	108.98	9	2
3	C	341	PX4	O6-C9-C10	2.17	132.28	123.78	9	1
3	B	326	PX4	O3-P1-O2	2.17	117.54	108.94	6	1
3	C	350	PX4	C4-N1-C2	2.17	118.54	109.91	15	1
3	B	384	PX4	C12-C11-C10	2.17	105.16	113.13	14	1
3	C	322	PX4	C8-O5-C9	2.17	109.19	117.12	1	1
3	C	322	PX4	O3-C1-C2	2.17	120.08	109.65	15	1
3	C	332	PX4	C7-O7-C23	2.17	112.60	117.80	8	1
3	C	342	PX4	C8-C7-C6	2.17	106.72	111.78	8	1
3	A	608	PX4	C1-C2-N1	2.17	122.78	115.82	4	1
3	A	624	PX4	P1-O3-C1	2.17	110.94	121.26	7	1
3	B	316	PX4	P1-O4-C6	2.17	108.92	121.35	7	2
3	B	378	PX4	O5-C9-C10	2.17	105.23	111.83	5	1
3	B	381	PX4	O7-C7-C8	2.17	100.57	108.34	7	1
3	C	302	PX4	C33-C32-C31	2.17	103.41	114.37	10	1
3	A	641	PX4	C31-C30-C29	2.17	103.42	114.37	9	1
3	B	311	PX4	O3-C1-C2	2.16	120.06	109.65	11	1
3	B	316	PX4	O5-C9-O6	2.17	129.04	123.63	10	1
3	C	316	PX4	P1-O4-C6	2.16	108.95	121.35	6	1
3	C	316	PX4	C4-N1-C3	2.17	103.29	108.98	7	1
3	C	331	PX4	C4-N1-C3	2.17	114.67	108.98	14	1
3	C	363	PX4	C1-C2-N1	2.17	122.77	115.82	4	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	643	PX4	C4-N1-C3	2.16	114.66	108.98	14	1
3	B	318	PX4	C4-N1-C3	2.16	103.29	108.98	1	1
3	C	340	PX4	O3-C1-C2	2.16	120.07	109.65	2	1
3	C	370	PX4	C8-O5-C9	2.17	109.20	117.12	6	1
3	B	319	PX4	C11-C10-C9	2.16	105.77	113.69	1	1
3	B	308	PX4	C4-N1-C2	2.16	101.32	109.91	15	1
3	B	328	PX4	P1-O3-C1	2.16	131.55	121.26	7	1
3	B	372	PX4	O7-C7-C8	2.16	116.10	108.34	15	1
3	C	302	PX4	C19-C18-C17	2.16	125.30	114.37	8	1
3	C	362	PX4	C8-C7-C6	2.16	106.74	111.78	4	1
3	C	307	PX4	O7-C23-O8	2.16	128.76	123.70	11	3
3	C	316	PX4	O3-P1-O2	2.16	117.50	108.94	8	2
3	B	393	PX4	C5-N1-C4	2.16	103.30	108.98	11	1
3	B	398	PX4	C4-N1-C3	2.16	114.65	108.98	13	1
3	C	319	PX4	O7-C23-O8	2.16	128.76	123.70	14	1
3	C	326	PX4	C11-C10-C9	2.16	105.78	113.69	1	2
3	C	331	PX4	C11-C10-C9	2.16	105.78	113.69	6	3
3	A	606	PX4	C25-C24-C23	2.16	105.78	113.69	3	2
3	A	628	PX4	C5-N1-C3	2.16	103.30	108.98	13	2
3	B	339	PX4	C26-C25-C24	2.16	121.06	113.13	6	2
3	A	624	PX4	O1-P1-O2	2.16	122.48	112.44	11	1
3	B	309	PX4	O7-C23-O8	2.16	128.75	123.70	3	2
3	B	330	PX4	O1-P1-O2	2.16	122.48	112.44	15	1
3	B	323	PX4	C11-C10-C9	2.16	105.79	113.69	15	1
3	B	339	PX4	C1-C2-N1	2.16	122.74	115.82	11	1
3	B	345	PX4	C29-C28-C27	2.16	103.47	114.37	8	1
3	B	373	PX4	P1-O3-C1	2.16	131.53	121.26	12	1
3	B	383	PX4	P1-O3-C1	2.16	110.99	121.26	7	2
3	B	398	PX4	C19-C18-C17	2.16	103.46	114.37	14	1
3	A	641	PX4	O5-C8-C7	2.15	114.61	108.40	9	1
3	A	647	PX4	O7-C7-C8	2.16	100.61	108.34	13	1
3	B	353	PX4	C18-C17-C16	2.16	103.47	114.37	2	1
3	B	353	PX4	C32-C31-C30	2.16	103.47	114.37	10	1
3	B	357	PX4	C25-C24-C23	2.16	121.59	113.69	12	1
3	C	355	PX4	O3-C1-C2	2.16	120.03	109.65	14	1
3	B	317	PX4	C8-C7-C6	2.15	106.76	111.78	1	1
3	B	317	PX4	O7-C7-C8	2.15	116.07	108.34	6	2
3	B	319	PX4	C5-N1-C3	2.15	103.32	108.98	2	2
3	B	363	PX4	C4-N1-C2	2.15	101.35	109.91	8	2
3	B	399	PX4	C27-C26-C25	2.16	103.47	114.37	13	1
3	C	353	PX4	C25-C24-C23	2.16	105.80	113.69	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	364	PX4	O7-C7-C8	2.16	116.08	108.34	8	1
3	B	382	PX4	C1-C2-N1	2.15	122.73	115.82	1	1
3	C	322	PX4	C1-C2-N1	2.15	122.74	115.82	10	1
3	A	601	PX4	O7-C7-C6	2.15	100.62	108.34	3	1
3	A	634	PX4	C5-N1-C3	2.15	103.32	108.98	13	1
3	A	637	PX4	C5-N1-C3	2.15	114.63	108.98	12	1
3	B	313	PX4	C8-C7-C6	2.15	116.80	111.78	15	1
3	B	391	PX4	C28-C27-C26	2.15	103.49	114.37	5	1
3	C	317	PX4	O5-C9-O6	2.15	129.01	123.63	11	1
3	A	608	PX4	C33-C32-C31	2.15	103.50	114.37	10	1
3	C	323	PX4	O1-P1-O4	2.15	117.31	107.57	12	1
3	C	326	PX4	C5-N1-C2	2.15	118.46	109.91	5	1
3	B	346	PX4	C5-N1-C2	2.15	118.45	109.91	4	1
3	B	396	PX4	O1-P1-O4	2.15	117.31	107.57	2	1
3	C	359	PX4	C25-C24-C23	2.15	105.82	113.69	9	2
3	A	629	PX4	C12-C11-C10	2.15	121.02	113.13	2	1
3	C	343	PX4	O5-C9-O6	2.15	129.00	123.63	10	2
3	B	341	PX4	C4-N1-C3	2.15	103.34	108.98	8	1
3	B	363	PX4	C18-C17-C16	2.15	103.52	114.37	4	1
3	B	382	PX4	C11-C10-C9	2.15	105.83	113.69	3	2
3	B	302	PX4	C4-N1-C3	2.15	114.61	108.98	2	3
3	B	342	PX4	O5-C9-C10	2.15	105.29	111.83	9	2
3	C	369	PX4	C32-C31-C30	2.15	125.22	114.37	7	1
3	B	302	PX4	C8-O5-C9	2.15	109.28	117.12	11	1
3	A	606	PX4	C5-N1-C4	2.14	103.34	108.98	5	1
3	B	321	PX4	C13-C12-C11	2.14	103.53	114.37	5	1
3	C	301	PX4	O7-C7-C8	2.14	116.04	108.34	9	2
3	C	340	PX4	C1-C2-N1	2.14	122.71	115.82	11	1
3	B	313	PX4	O5-C9-C10	2.14	105.30	111.83	1	1
3	B	316	PX4	O7-C7-C6	2.14	116.03	108.34	6	1
3	B	322	PX4	C5-N1-C4	2.14	103.35	108.98	8	2
3	B	332	PX4	C8-O5-C9	2.14	109.29	117.12	1	1
3	B	359	PX4	C4-N1-C3	2.14	114.60	108.98	1	1
3	B	359	PX4	C4-N1-C2	2.14	118.43	109.91	2	1
3	C	310	PX4	C27-C26-C25	2.14	103.53	114.37	9	1
3	C	343	PX4	C33-C32-C31	2.14	125.20	114.37	10	1
3	B	362	PX4	C8-O5-C9	2.14	109.29	117.12	8	1
3	C	324	PX4	C26-C25-C24	2.14	105.25	113.13	1	1
3	C	325	PX4	O4-P1-O2	2.14	100.45	108.94	15	1
3	C	332	PX4	O6-C9-C10	2.14	132.16	123.78	12	1
3	A	635	PX4	C1-C2-N1	2.14	122.69	115.82	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	646	PX4	O3-P1-O2	2.14	100.45	108.94	15	2
3	B	331	PX4	O7-C7-C8	2.14	116.02	108.34	9	1
3	C	360	PX4	O6-C9-C10	2.14	132.15	123.78	6	1
3	C	365	PX4	C8-O5-C9	2.14	124.94	117.12	13	1
3	B	313	PX4	C27-C26-C25	2.14	103.56	114.37	8	1
3	B	316	PX4	C4-N1-C2	2.14	101.41	109.91	14	1
3	B	319	PX4	O5-C9-C10	2.14	105.31	111.83	13	2
3	B	392	PX4	O7-C7-C6	2.14	116.02	108.34	11	1
3	B	400	PX4	C19-C18-C17	2.14	103.55	114.37	10	1
3	A	604	PX4	C8-C7-C6	2.14	106.80	111.78	10	1
3	A	640	PX4	C26-C25-C24	2.14	105.27	113.13	2	1
3	A	617	PX4	P1-O4-C6	2.14	133.59	121.35	12	1
3	A	623	PX4	O3-C1-C2	2.14	119.93	109.65	15	1
3	A	639	PX4	C5-N1-C3	2.14	103.36	108.98	14	1
3	A	641	PX4	O5-C9-C10	2.14	105.32	111.83	1	1
3	B	315	PX4	C14-C13-C12	2.14	103.57	114.37	6	1
3	B	319	PX4	C25-C24-C23	2.14	105.86	113.69	4	1
3	B	321	PX4	O7-C23-C24	2.14	106.86	111.48	3	2
3	A	648	PX4	C5-N1-C2	2.14	101.42	109.91	3	1
3	B	325	PX4	O5-C9-C10	2.14	105.32	111.83	7	1
3	B	378	PX4	C26-C25-C24	2.14	120.98	113.13	7	1
3	C	370	PX4	C18-C17-C16	2.14	125.17	114.37	10	1
3	A	634	PX4	C12-C11-C10	2.13	120.97	113.13	12	1
3	B	309	PX4	P1-O3-C1	2.13	131.41	121.26	1	1
3	B	319	PX4	C4-N1-C3	2.13	103.38	108.98	1	1
3	B	320	PX4	C22-C21-C20	2.13	127.76	113.36	6	1
3	B	325	PX4	O8-C23-C24	2.13	132.12	123.78	2	1
3	B	331	PX4	C3-N1-C2	2.13	118.39	109.91	8	1
3	B	338	PX4	C15-C14-C13	2.13	103.59	114.37	6	1
3	B	362	PX4	C33-C32-C31	2.13	103.58	114.37	6	1
3	B	370	PX4	C5-N1-C4	2.13	103.38	108.98	15	1
3	B	376	PX4	C27-C26-C25	2.13	103.59	114.37	11	1
3	A	647	PX4	C8-O5-C9	2.13	109.33	117.12	1	1
3	B	356	PX4	C18-C17-C16	2.13	103.59	114.37	2	1
3	B	370	PX4	C11-C10-C9	2.13	121.50	113.69	9	1
3	B	393	PX4	O5-C9-C10	2.13	105.33	111.83	11	2
3	C	310	PX4	C8-O5-C9	2.13	109.33	117.12	15	1
3	C	351	PX4	C3-N1-C2	2.13	101.44	109.91	13	2
3	C	356	PX4	O1-P1-O2	2.13	122.36	112.44	2	2
3	A	617	PX4	O7-C7-C8	2.13	115.98	108.34	11	1
3	A	607	PX4	C8-O5-C9	2.13	109.34	117.12	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	A	623	PX4	C8-O5-C9	2.13	109.34	117.12	4	1
3	A	648	PX4	O3-P1-O2	2.13	100.50	108.94	3	1
3	B	331	PX4	C26-C25-C24	2.13	120.95	113.13	13	1
3	B	357	PX4	C12-C11-C10	2.13	120.95	113.13	6	1
3	C	349	PX4	C1-C2-N1	2.13	122.66	115.82	3	1
3	A	634	PX4	O7-C23-O8	2.13	128.68	123.70	9	2
3	B	306	PX4	C5-N1-C2	2.13	118.37	109.91	10	1
3	B	318	PX4	C12-C11-C10	2.13	105.31	113.13	10	1
3	B	378	PX4	C25-C24-C23	2.13	105.90	113.69	14	1
3	C	326	PX4	C27-C26-C25	2.13	103.61	114.37	15	1
3	C	330	PX4	O7-C23-O8	2.13	128.68	123.70	12	2
3	B	368	PX4	C4-N1-C3	2.13	114.56	108.98	7	2
3	B	369	PX4	C4-N1-C2	2.13	118.36	109.91	14	1
3	C	336	PX4	C8-O5-C9	2.13	124.89	117.12	15	2
3	C	341	PX4	C25-C24-C23	2.13	105.90	113.69	4	1
3	B	331	PX4	C4-N1-C3	2.12	103.40	108.98	13	1
3	B	340	PX4	C34-C33-C32	2.12	103.63	114.37	1	1
3	C	339	PX4	C11-C10-C9	2.12	105.91	113.69	8	1
3	C	340	PX4	O5-C9-O6	2.13	128.94	123.63	9	1
3	A	618	PX4	O1-P1-O2	2.12	122.32	112.44	11	2
3	A	621	PX4	O7-C23-O8	2.12	128.67	123.70	1	3
3	A	627	PX4	C31-C30-C29	2.12	103.64	114.37	3	1
3	A	631	PX4	O1-P1-O2	2.12	122.32	112.44	14	2
3	B	317	PX4	C5-N1-C3	2.12	103.40	108.98	4	1
3	B	342	PX4	C3-N1-C2	2.12	101.47	109.91	10	1
3	B	360	PX4	C11-C10-C9	2.12	105.91	113.69	4	1
3	B	377	PX4	C1-C2-N1	2.12	122.64	115.82	13	2
3	B	386	PX4	O8-C23-C24	2.12	132.09	123.78	11	1
3	B	367	PX4	C4-N1-C2	2.12	101.47	109.91	15	1
3	B	393	PX4	C26-C25-C24	2.12	120.93	113.13	3	1
3	C	304	PX4	O1-P1-O2	2.12	122.32	112.44	3	1
3	C	356	PX4	C26-C25-C24	2.12	120.93	113.13	12	1
3	B	331	PX4	O1-P1-O4	2.12	117.18	107.57	14	1
3	B	327	PX4	O3-P1-O2	2.12	117.34	108.94	4	1
3	B	346	PX4	C5-N1-C3	2.12	103.41	108.98	10	1
3	B	355	PX4	O8-C23-C24	2.12	132.08	123.78	8	1
3	B	363	PX4	O5-C9-C10	2.12	105.37	111.83	4	1
3	B	399	PX4	O1-P1-O2	2.12	122.31	112.44	8	1
3	C	327	PX4	C28-C27-C26	2.12	103.64	114.37	5	1
3	C	331	PX4	C14-C13-C12	2.12	103.65	114.37	14	1
3	C	333	PX4	C5-N1-C4	2.12	103.40	108.98	12	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	350	PX4	C19-C18-C17	2.12	103.64	114.37	10	2
3	A	619	PX4	C11-C10-C9	2.12	121.46	113.69	1	1
3	A	620	PX4	C17-C16-C15	2.12	125.08	114.37	12	1
3	B	314	PX4	O8-C23-C24	2.12	132.07	123.78	12	1
3	B	315	PX4	C16-C15-C14	2.12	103.66	114.37	5	1
3	B	317	PX4	C4-N1-C3	2.12	114.54	108.98	2	1
3	B	332	PX4	C12-C11-C10	2.12	105.34	113.13	7	1
3	C	304	PX4	C25-C24-C23	2.12	105.93	113.69	2	1
3	C	359	PX4	O7-C7-C6	2.12	100.74	108.34	2	1
3	A	609	PX4	O7-C7-C8	2.12	115.94	108.34	9	2
3	A	640	PX4	C20-C19-C18	2.12	103.67	114.37	14	1
3	A	641	PX4	P1-O4-C6	2.12	133.48	121.35	8	1
3	B	357	PX4	C30-C29-C28	2.12	103.66	114.37	5	1
3	B	366	PX4	O7-C7-C6	2.12	115.94	108.34	3	2
3	C	327	PX4	C5-N1-C4	2.12	103.41	108.98	12	1
3	C	332	PX4	C1-C2-N1	2.12	122.62	115.82	12	2
3	A	623	PX4	O7-C7-C6	2.12	115.94	108.34	15	2
3	A	648	PX4	O5-C9-C10	2.12	105.38	111.83	10	2
3	B	340	PX4	C18-C17-C16	2.12	103.67	114.37	14	1
3	B	341	PX4	C1-C2-N1	2.12	122.62	115.82	2	2
3	B	346	PX4	O7-C7-C6	2.12	115.94	108.34	3	2
3	B	354	PX4	C4-N1-C2	2.12	101.50	109.91	15	1
3	B	360	PX4	C13-C12-C11	2.12	103.67	114.37	9	1
3	B	393	PX4	C33-C32-C31	2.12	103.66	114.37	5	1
3	B	400	PX4	C4-N1-C3	2.12	103.42	108.98	14	1
3	C	317	PX4	C4-N1-C2	2.12	101.49	109.91	12	1
3	C	319	PX4	C5-N1-C4	2.12	114.54	108.98	12	1
3	C	329	PX4	C12-C11-C10	2.12	120.90	113.13	13	1
3	C	342	PX4	C4-N1-C3	2.12	114.54	108.98	15	2
3	C	349	PX4	O5-C9-O6	2.12	128.92	123.63	10	1
3	A	608	PX4	C5-N1-C3	2.11	103.42	108.98	5	1
3	A	617	PX4	P1-O3-C1	2.11	111.19	121.26	6	1
3	B	309	PX4	C8-C7-C6	2.11	116.72	111.78	5	1
3	B	313	PX4	O4-P1-O2	2.12	100.55	108.94	7	1
3	B	382	PX4	O5-C9-O6	2.12	128.92	123.63	8	2
3	B	383	PX4	C15-C14-C13	2.11	103.68	114.37	3	1
3	B	397	PX4	C8-O5-C9	2.11	109.39	117.12	10	1
3	C	322	PX4	C5-N1-C3	2.11	114.53	108.98	1	1
3	C	351	PX4	O5-C9-C10	2.12	105.39	111.83	11	1
3	A	642	PX4	O7-C7-C8	2.11	115.92	108.34	11	1
3	B	307	PX4	O1-P1-O2	2.11	122.27	112.44	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	351	PX4	C25-C24-C23	2.11	105.95	113.69	14	1
3	B	323	PX4	C26-C25-C24	2.11	105.37	113.13	5	1
3	B	329	PX4	C12-C11-C10	2.11	105.37	113.13	2	1
3	B	335	PX4	C3-N1-C2	2.11	118.30	109.91	6	1
3	B	381	PX4	C26-C25-C24	2.11	105.36	113.13	10	1
3	B	400	PX4	C5-N1-C2	2.11	118.31	109.91	6	1
3	C	342	PX4	C25-C24-C23	2.11	105.95	113.69	9	1
3	B	366	PX4	P1-O3-C1	2.11	111.22	121.26	9	1
3	B	379	PX4	O5-C9-O6	2.11	128.90	123.63	3	2
3	B	394	PX4	C11-C10-C9	2.11	105.97	113.69	14	1
3	C	304	PX4	O7-C23-O8	2.11	128.64	123.70	11	1
3	C	325	PX4	P1-O4-C6	2.11	109.25	121.35	10	1
3	C	345	PX4	C26-C25-C24	2.11	105.37	113.13	7	1
3	A	644	PX4	O5-C9-C10	2.11	105.40	111.83	13	2
3	A	614	PX4	C5-N1-C4	2.11	103.44	108.98	13	1
3	A	621	PX4	O5-C8-C7	2.11	114.47	108.40	1	1
3	B	307	PX4	C11-C10-C9	2.11	105.97	113.69	6	1
3	B	324	PX4	C8-O5-C9	2.11	124.82	117.12	5	1
3	B	349	PX4	O1-P1-O4	2.11	98.01	107.57	2	1
3	A	614	PX4	C5-N1-C3	2.11	103.44	108.98	10	1
3	B	368	PX4	P1-O4-C6	2.11	109.28	121.35	8	1
3	B	373	PX4	C5-N1-C4	2.11	103.44	108.98	8	3
3	B	398	PX4	C11-C10-C9	2.11	105.98	113.69	8	1
3	B	398	PX4	O5-C9-C10	2.11	105.41	111.83	10	1
3	C	331	PX4	C17-C16-C15	2.11	103.72	114.37	13	1
3	C	362	PX4	O7-C7-C8	2.11	115.90	108.34	11	1
3	C	367	PX4	C1-C2-N1	2.11	122.58	115.82	8	1
3	B	313	PX4	C26-C25-C24	2.11	105.39	113.13	8	1
3	B	317	PX4	O4-P1-O2	2.11	100.59	108.94	8	1
3	B	330	PX4	O8-C23-C24	2.11	132.02	123.78	5	1
3	A	607	PX4	C11-C10-C9	2.10	121.41	113.69	10	1
3	B	378	PX4	C12-C11-C10	2.10	120.86	113.13	10	1
3	B	390	PX4	O7-C23-O8	2.11	128.63	123.70	4	1
3	B	391	PX4	C8-C7-C6	2.10	116.69	111.78	3	1
3	B	374	PX4	C28-C27-C26	2.10	103.73	114.37	1	1
3	C	304	PX4	C19-C18-C17	2.10	103.73	114.37	13	1
3	C	317	PX4	P1-O4-C6	2.10	133.41	121.35	13	1
3	C	334	PX4	O5-C9-C10	2.10	105.42	111.83	12	1
3	A	633	PX4	O3-P1-O2	2.10	100.60	108.94	10	2
3	A	632	PX4	C11-C10-C9	2.10	121.40	113.69	9	1
3	A	647	PX4	O8-C23-C24	2.10	132.01	123.78	5	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	302	PX4	C34-C33-C32	2.10	103.74	114.37	9	1
3	C	339	PX4	C30-C29-C28	2.10	103.74	114.37	6	1
3	A	614	PX4	C26-C25-C24	2.10	120.85	113.13	7	2
3	A	614	PX4	O3-P1-O2	2.10	100.61	108.94	9	1
3	B	383	PX4	O7-C7-C6	2.10	100.81	108.34	7	1
3	C	301	PX4	C7-O7-C23	2.10	112.77	117.80	5	1
3	C	352	PX4	C5-N1-C3	2.10	103.45	108.98	2	2
3	C	362	PX4	C33-C32-C31	2.10	103.74	114.37	10	1
3	C	367	PX4	C13-C12-C11	2.10	103.74	114.37	6	1
3	B	347	PX4	C5-N1-C4	2.10	103.46	108.98	12	1
3	A	640	PX4	O5-C9-C10	2.10	105.43	111.83	10	1
3	B	366	PX4	O7-C7-C8	2.10	115.88	108.34	8	1
3	C	304	PX4	C1-C2-N1	2.10	122.56	115.82	3	1
3	B	315	PX4	O3-C1-C2	2.10	119.75	109.65	2	1
3	A	608	PX4	O7-C23-O8	2.10	128.61	123.70	13	1
3	A	616	PX4	C8-C7-C6	2.10	106.90	111.78	3	1
3	A	626	PX4	O1-P1-O2	2.10	122.20	112.44	3	1
3	C	335	PX4	O1-P1-O2	2.10	122.21	112.44	3	1
3	C	346	PX4	O5-C9-O6	2.10	128.88	123.63	11	1
3	C	351	PX4	C5-N1-C4	2.10	103.46	108.98	14	1
3	A	611	PX4	C8-C7-C6	2.10	116.67	111.78	11	3
3	B	311	PX4	O5-C9-C10	2.10	105.44	111.83	6	1
3	B	353	PX4	O5-C9-C10	2.10	105.44	111.83	8	1
3	B	377	PX4	C4-N1-C2	2.10	118.24	109.91	6	1
3	B	395	PX4	C3-N1-C2	2.10	101.58	109.91	2	1
3	C	313	PX4	C25-C24-C23	2.10	121.37	113.69	4	1
3	C	317	PX4	O4-P1-O2	2.10	117.24	108.94	7	1
3	C	318	PX4	C20-C19-C18	2.10	103.77	114.37	1	1
3	B	356	PX4	C25-C24-C23	2.10	121.37	113.69	7	2
3	C	359	PX4	O1-P1-O2	2.10	122.20	112.44	2	1
3	A	633	PX4	O6-C9-C10	2.09	131.97	123.78	11	1
3	A	642	PX4	C17-C16-C15	2.09	124.95	114.37	8	1
3	B	312	PX4	O1-P1-O3	2.09	117.06	107.57	11	1
3	B	338	PX4	P1-O3-C1	2.09	131.23	121.26	9	1
3	B	375	PX4	C28-C27-C26	2.09	103.79	114.37	6	1
3	B	376	PX4	O5-C9-C10	2.09	105.45	111.83	4	1
3	B	384	PX4	O7-C7-C6	2.09	100.83	108.34	6	1
3	B	389	PX4	C29-C28-C27	2.09	103.78	114.37	1	1
3	C	309	PX4	C25-C24-C23	2.09	106.02	113.69	7	1
3	C	329	PX4	O3-P1-O2	2.09	117.24	108.94	9	1
3	B	397	PX4	C5-N1-C3	2.09	114.47	108.98	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	338	PX4	C34-C33-C32	2.09	103.78	114.37	1	1
3	A	608	PX4	C29-C28-C27	2.09	103.80	114.37	8	1
3	A	608	PX4	C4-N1-C2	2.09	118.22	109.91	15	1
3	B	313	PX4	O7-C23-C24	2.09	106.96	111.48	1	1
3	B	317	PX4	O1-P1-O2	2.09	122.17	112.44	2	1
3	B	321	PX4	P1-O4-C6	2.09	133.33	121.35	15	1
3	B	328	PX4	C1-C2-N1	2.09	122.53	115.82	8	1
3	A	627	PX4	C4-N1-C2	2.09	118.21	109.91	8	1
3	A	647	PX4	O3-C1-C2	2.09	99.60	109.65	5	1
3	B	316	PX4	O1-P1-O2	2.09	122.16	112.44	13	1
3	C	301	PX4	C11-C10-C9	2.09	106.03	113.69	8	1
3	C	303	PX4	C26-C25-C24	2.09	105.45	113.13	15	1
3	C	342	PX4	C5-N1-C2	2.09	118.22	109.91	5	1
3	C	347	PX4	C5-N1-C2	2.09	101.61	109.91	10	1
3	C	360	PX4	C19-C18-C17	2.09	103.80	114.37	5	1
3	B	339	PX4	C5-N1-C4	2.09	114.46	108.98	2	1
3	B	301	PX4	C8-O5-C9	2.09	109.49	117.12	7	1
3	B	318	PX4	C30-C29-C28	2.09	103.82	114.37	13	1
3	B	396	PX4	C12-C11-C10	2.09	105.46	113.13	13	1
3	C	307	PX4	O1-P1-O2	2.09	122.15	112.44	4	1
3	C	310	PX4	P1-O3-C1	2.09	131.20	121.26	9	1
3	C	352	PX4	P1-O4-C6	2.09	109.39	121.35	9	1
3	C	302	PX4	O3-C1-C2	2.09	119.69	109.65	12	1
3	A	623	PX4	C4-N1-C3	2.08	114.45	108.98	9	1
3	A	624	PX4	O3-C1-C2	2.08	119.67	109.65	14	1
3	B	302	PX4	O3-C1-C2	2.08	119.68	109.65	1	1
3	B	307	PX4	C26-C25-C24	2.08	120.78	113.13	14	1
3	B	340	PX4	C26-C25-C24	2.08	120.78	113.13	11	1
3	C	313	PX4	C13-C12-C11	2.09	103.83	114.37	1	1
3	B	386	PX4	C1-C2-N1	2.08	122.51	115.82	1	1
3	B	389	PX4	C11-C10-C9	2.09	121.33	113.69	5	1
3	C	302	PX4	P1-O4-C6	2.08	133.29	121.35	2	1
3	C	304	PX4	P1-O3-C1	2.08	111.34	121.26	15	1
3	C	308	PX4	C5-N1-C2	2.08	118.20	109.91	14	1
3	A	643	PX4	O8-C23-C24	2.08	131.93	123.78	12	1
3	B	358	PX4	C27-C26-C25	2.08	103.84	114.37	11	1
3	C	342	PX4	O6-C9-C10	2.08	131.93	123.78	11	1
3	B	312	PX4	C12-C11-C10	2.08	105.48	113.13	2	1
3	C	359	PX4	O5-C9-C10	2.08	105.49	111.83	14	1
3	A	633	PX4	C14-C13-C12	2.08	103.85	114.37	3	1
3	B	375	PX4	C12-C11-C10	2.08	105.48	113.13	11	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	396	PX4	C4-N1-C3	2.08	103.51	108.98	9	1
3	C	301	PX4	C8-C7-C6	2.08	116.64	111.78	6	1
3	C	323	PX4	C16-C15-C14	2.08	103.85	114.37	8	1
3	B	348	PX4	O3-C1-C2	2.08	119.66	109.65	13	1
3	A	604	PX4	C34-C33-C32	2.08	124.87	114.37	13	1
3	B	360	PX4	C5-N1-C4	2.08	103.51	108.98	4	1
3	C	330	PX4	C8-O5-C9	2.08	109.52	117.12	5	1
3	C	349	PX4	C26-C25-C24	2.08	120.77	113.13	6	1
3	C	357	PX4	C8-O5-C9	2.08	109.52	117.12	13	1
3	B	337	PX4	O3-C1-C2	2.08	119.64	109.65	3	1
3	C	367	PX4	C5-N1-C4	2.08	114.44	108.98	3	1
3	B	368	PX4	C32-C31-C30	2.08	103.87	114.37	13	1
3	C	307	PX4	C27-C26-C25	2.08	103.87	114.37	8	1
3	A	621	PX4	O7-C7-C6	2.08	115.79	108.34	2	1
3	B	311	PX4	P1-O3-C1	2.07	131.14	121.26	2	1
3	B	314	PX4	C29-C28-C27	2.07	103.88	114.37	8	1
3	B	352	PX4	O4-P1-O2	2.08	100.71	108.94	13	1
3	B	359	PX4	C8-C7-C6	2.08	116.62	111.78	1	1
3	B	369	PX4	C5-N1-C4	2.07	103.53	108.98	14	1
3	B	389	PX4	O5-C9-C10	2.08	118.16	111.83	3	2
3	C	303	PX4	C30-C29-C28	2.08	103.88	114.37	14	1
3	C	312	PX4	O3-C1-C2	2.08	119.64	109.65	14	1
3	C	368	PX4	C1-C2-N1	2.08	122.49	115.82	8	1
3	C	331	PX4	O7-C7-C6	2.07	115.79	108.34	5	1
3	C	339	PX4	C28-C27-C26	2.08	103.88	114.37	4	1
3	C	305	PX4	C5-N1-C4	2.07	103.53	108.98	15	1
3	C	318	PX4	C25-C24-C23	2.07	106.10	113.69	5	1
3	C	338	PX4	O7-C7-C6	2.07	100.91	108.34	7	1
3	C	342	PX4	C28-C27-C26	2.07	124.85	114.37	14	1
3	B	325	PX4	C25-C24-C23	2.07	106.10	113.69	5	1
3	B	337	PX4	O7-C7-C6	2.07	115.78	108.34	13	2
3	C	357	PX4	O3-C1-C2	2.07	119.62	109.65	7	1
3	C	357	PX4	C3-N1-C2	2.07	118.15	109.91	11	1
3	A	610	PX4	C32-C31-C30	2.07	103.90	114.37	4	1
3	A	613	PX4	C12-C11-C10	2.07	120.74	113.13	8	2
3	A	626	PX4	C4-N1-C3	2.07	114.41	108.98	2	1
3	A	643	PX4	O7-C7-C6	2.07	115.77	108.34	13	1
3	B	322	PX4	O5-C8-C7	2.07	114.37	108.40	11	1
3	B	329	PX4	C11-C10-C9	2.07	106.11	113.69	10	1
3	B	341	PX4	O1-P1-O2	2.07	122.08	112.44	7	1
3	C	304	PX4	C3-N1-C2	2.07	118.14	109.91	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	336	PX4	C1-C2-N1	2.07	122.47	115.82	2	1
3	C	332	PX4	C11-C10-C9	2.07	106.11	113.69	14	1
3	A	648	PX4	O4-P1-O2	2.07	100.73	108.94	8	1
3	B	301	PX4	P1-O3-C1	2.07	131.11	121.26	12	2
3	B	320	PX4	O1-P1-O3	2.07	116.94	107.57	11	1
3	B	392	PX4	C8-O5-C9	2.07	109.56	117.12	5	1
3	C	363	PX4	C29-C28-C27	2.07	103.91	114.37	12	1
3	B	384	PX4	O5-C9-O6	2.07	128.80	123.63	9	1
3	A	615	PX4	C26-C25-C24	2.07	105.54	113.13	4	1
3	B	307	PX4	C25-C24-C23	2.07	121.27	113.69	6	1
3	A	619	PX4	C8-O5-C9	2.06	109.57	117.12	2	1
3	B	311	PX4	O8-C23-C24	2.07	115.70	123.78	15	1
3	B	317	PX4	C34-C33-C32	2.07	103.93	114.37	4	1
3	B	385	PX4	C4-N1-C2	2.07	118.12	109.91	14	1
3	B	346	PX4	P1-O3-C1	2.06	111.44	121.26	12	1
3	B	351	PX4	C5-N1-C2	2.06	101.70	109.91	13	1
3	C	313	PX4	C26-C25-C24	2.06	105.54	113.13	6	1
3	C	352	PX4	C4-N1-C3	2.06	114.40	108.98	5	1
3	B	367	PX4	C8-C7-C6	2.06	106.97	111.78	5	1
3	B	380	PX4	C33-C32-C31	2.06	103.94	114.37	14	1
3	B	385	PX4	C1-C2-N1	2.06	122.44	115.82	15	1
3	B	396	PX4	O5-C9-O6	2.06	118.47	123.63	6	1
3	C	332	PX4	C8-O5-C9	2.06	109.58	117.12	7	1
3	C	335	PX4	O7-C7-C6	2.06	115.75	108.34	13	1
3	B	322	PX4	C8-O5-C9	2.06	109.58	117.12	10	1
3	C	337	PX4	C11-C10-C9	2.06	121.25	113.69	6	1
3	A	606	PX4	C16-C15-C14	2.06	103.95	114.37	5	1
3	A	632	PX4	C4-N1-C3	2.06	103.56	108.98	14	1
3	B	307	PX4	C34-C33-C32	2.06	103.95	114.37	14	1
3	B	327	PX4	C11-C10-C9	2.06	106.14	113.69	2	1
3	B	391	PX4	C4-N1-C3	2.06	103.56	108.98	13	1
3	B	395	PX4	C14-C13-C12	2.06	124.79	114.37	5	1
3	C	301	PX4	C12-C11-C10	2.06	120.70	113.13	5	1
3	C	316	PX4	C8-O5-C9	2.06	124.65	117.12	8	1
3	C	317	PX4	C27-C26-C25	2.06	103.95	114.37	8	1
3	C	344	PX4	C11-C10-C9	2.06	106.14	113.69	8	1
3	B	358	PX4	O7-C7-C8	2.06	115.74	108.34	6	1
3	B	386	PX4	C27-C26-C25	2.06	103.95	114.37	2	1
3	C	309	PX4	C8-C7-C6	2.06	116.59	111.78	8	1
3	B	312	PX4	O5-C9-O6	2.06	128.78	123.63	1	1
3	B	368	PX4	C1-C2-N1	2.06	122.43	115.82	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	374	PX4	O1-P1-O2	2.06	122.02	112.44	3	1
3	A	615	PX4	C4-N1-C3	2.06	114.38	108.98	1	2
3	B	321	PX4	C26-C25-C24	2.06	120.69	113.13	10	1
3	B	358	PX4	O7-C7-C6	2.06	115.73	108.34	2	1
3	C	370	PX4	O7-C7-C6	2.06	115.73	108.34	6	1
3	A	610	PX4	C34-C33-C32	2.05	103.98	114.37	8	1
3	A	632	PX4	C31-C30-C29	2.06	103.98	114.37	11	1
3	A	633	PX4	O1-P1-O3	2.06	116.89	107.57	10	1
3	A	646	PX4	C26-C25-C24	2.06	120.68	113.13	15	1
3	C	311	PX4	C8-O5-C9	2.06	109.60	117.12	15	1
3	C	329	PX4	C26-C25-C24	2.06	105.57	113.13	9	1
3	A	645	PX4	O7-C23-O8	2.06	128.51	123.70	8	2
3	B	305	PX4	P1-O3-C1	2.06	131.05	121.26	5	2
3	B	333	PX4	C26-C25-C24	2.05	105.58	113.13	13	1
3	B	344	PX4	O5-C9-O6	2.06	128.77	123.63	1	1
3	B	380	PX4	C20-C19-C18	2.06	103.97	114.37	8	1
3	C	353	PX4	C20-C19-C18	2.06	103.97	114.37	9	1
3	A	605	PX4	C8-O5-C9	2.05	109.61	117.12	9	1
3	A	613	PX4	O1-P1-O3	2.05	116.88	107.57	14	1
3	B	390	PX4	C16-C15-C14	2.05	103.98	114.37	13	1
3	B	400	PX4	C8-O5-C9	2.05	109.61	117.12	8	1
3	C	323	PX4	C18-C17-C16	2.05	103.98	114.37	10	1
3	C	341	PX4	O7-C7-C6	2.05	100.97	108.34	13	1
3	C	344	PX4	C25-C24-C23	2.06	106.16	113.69	12	1
3	C	355	PX4	C26-C25-C24	2.05	105.58	113.13	13	1
3	A	643	PX4	C12-C11-C10	2.05	105.58	113.13	4	1
3	B	319	PX4	C22-C21-C20	2.05	127.23	113.36	4	1
3	B	339	PX4	C8-O5-C9	2.05	109.61	117.12	6	1
3	B	400	PX4	P1-O3-C1	2.05	131.03	121.26	2	1
3	C	353	PX4	C5-N1-C4	2.05	103.58	108.98	3	1
3	A	618	PX4	C4-N1-C3	2.05	114.37	108.98	2	1
3	B	330	PX4	O5-C9-O6	2.05	128.76	123.63	13	2
3	B	308	PX4	C17-C16-C15	2.05	124.73	114.37	12	2
3	B	318	PX4	C5-N1-C2	2.05	118.06	109.91	7	1
3	C	311	PX4	C5-N1-C3	2.05	103.58	108.98	1	1
3	C	315	PX4	O1-P1-O4	2.05	116.87	107.57	8	1
3	A	604	PX4	C8-O5-C9	2.05	109.62	117.12	8	1
3	B	352	PX4	O1-P1-O4	2.05	116.86	107.57	3	1
3	B	358	PX4	C4-N1-C3	2.05	103.59	108.98	9	1
3	C	313	PX4	O7-C23-O8	2.05	128.50	123.70	12	2
3	C	346	PX4	C25-C24-C23	2.05	121.21	113.69	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	368	PX4	O7-C23-O8	2.05	128.50	123.70	4	1
3	A	634	PX4	C25-C24-C23	2.05	121.20	113.69	6	3
3	A	639	PX4	O3-C1-C2	2.05	119.51	109.65	7	1
3	B	330	PX4	O5-C9-C10	2.05	105.58	111.83	6	1
3	B	309	PX4	C26-C25-C24	2.05	105.60	113.13	14	1
3	B	359	PX4	C1-C2-N1	2.05	122.40	115.82	4	1
3	B	376	PX4	C16-C15-C14	2.05	104.01	114.37	14	1
3	B	393	PX4	C31-C30-C29	2.05	104.01	114.37	10	1
3	C	301	PX4	C26-C25-C24	2.05	105.60	113.13	9	1
3	C	346	PX4	C5-N1-C3	2.05	103.59	108.98	5	1
3	C	366	PX4	C18-C17-C16	2.05	104.01	114.37	1	1
3	A	620	PX4	C8-C7-C6	2.05	116.56	111.78	9	1
3	A	641	PX4	C25-C24-C23	2.05	106.19	113.69	14	1
3	C	337	PX4	P1-O4-C6	2.05	133.09	121.35	2	1
3	C	366	PX4	C12-C11-C10	2.05	105.60	113.13	10	1
3	C	367	PX4	O7-C7-C8	2.05	115.69	108.34	14	1
3	B	302	PX4	C15-C14-C13	2.05	104.02	114.37	3	1
3	B	318	PX4	O7-C23-O8	2.05	128.49	123.70	12	1
3	B	318	PX4	C5-N1-C4	2.05	103.60	108.98	15	1
3	B	351	PX4	P1-O3-C1	2.05	131.01	121.26	7	1
3	B	353	PX4	C26-C25-C24	2.05	120.65	113.13	13	1
3	B	383	PX4	O5-C9-O6	2.05	128.75	123.63	1	1
3	C	311	PX4	O1-P1-O2	2.05	121.97	112.44	11	1
3	C	314	PX4	C19-C18-C17	2.05	104.02	114.37	6	1
3	C	323	PX4	C25-C24-C23	2.05	106.19	113.69	15	1
3	C	349	PX4	C5-N1-C4	2.05	103.60	108.98	14	1
3	A	619	PX4	O7-C7-C6	2.05	115.68	108.34	4	1
3	A	632	PX4	C30-C29-C28	2.05	104.03	114.37	15	2
3	A	635	PX4	C28-C27-C26	2.05	104.03	114.37	12	1
3	A	648	PX4	C12-C11-C10	2.05	105.61	113.13	4	1
3	A	612	PX4	O1-P1-O2	2.04	121.95	112.44	2	1
3	A	619	PX4	C27-C26-C25	2.04	104.03	114.37	13	1
3	B	313	PX4	C4-N1-C3	2.05	103.60	108.98	2	1
3	B	313	PX4	O7-C7-C6	2.05	101.01	108.34	3	2
3	C	310	PX4	C17-C16-C15	2.05	104.03	114.37	12	1
3	C	321	PX4	P1-O3-C1	2.04	111.53	121.26	4	1
3	C	367	PX4	C20-C19-C18	2.05	104.03	114.37	1	1
3	B	302	PX4	C26-C25-C24	2.04	105.62	113.13	14	1
3	B	341	PX4	C11-C10-C9	2.04	106.20	113.69	14	1
3	B	356	PX4	C17-C16-C15	2.04	104.03	114.37	10	1
3	B	343	PX4	C17-C16-C15	2.04	104.04	114.37	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	345	PX4	C32-C31-C30	2.04	104.04	114.37	15	1
3	A	641	PX4	O5-C9-O6	2.04	118.52	123.63	15	1
3	A	648	PX4	O1-P1-O4	2.04	116.82	107.57	11	1
3	A	615	PX4	O1-P1-O2	2.04	121.94	112.44	5	1
3	A	617	PX4	C11-C10-C9	2.04	106.22	113.69	4	1
3	A	646	PX4	C17-C16-C15	2.04	104.05	114.37	1	1
3	B	396	PX4	O3-C1-C2	2.04	119.47	109.65	3	1
3	B	399	PX4	C5-N1-C2	2.04	118.02	109.91	12	1
3	C	324	PX4	C8-C7-C6	2.04	107.03	111.78	14	1
3	C	339	PX4	C26-C25-C24	2.04	120.63	113.13	9	1
3	C	301	PX4	O4-P1-O2	2.04	100.85	108.94	14	1
3	C	348	PX4	C12-C11-C10	2.04	105.63	113.13	11	1
3	C	349	PX4	O1-P1-O2	2.04	121.94	112.44	10	1
3	C	316	PX4	C4-N1-C2	2.04	118.02	109.91	15	1
3	C	365	PX4	O7-C7-C8	2.04	115.67	108.34	8	1
3	A	602	PX4	O6-C9-C10	2.04	115.81	123.78	9	1
3	A	607	PX4	O7-C7-C8	2.04	115.66	108.34	12	1
3	A	624	PX4	O7-C7-C6	2.04	115.66	108.34	7	1
3	A	642	PX4	C25-C24-C23	2.04	106.22	113.69	7	1
3	A	645	PX4	C5-N1-C3	2.04	103.62	108.98	11	1
3	B	317	PX4	P1-O3-C1	2.04	111.55	121.26	2	1
3	A	616	PX4	O5-C9-C10	2.04	105.62	111.83	15	1
3	A	636	PX4	O7-C7-C8	2.04	115.65	108.34	15	1
3	A	644	PX4	C19-C18-C17	2.04	104.07	114.37	13	1
3	B	317	PX4	C7-O7-C23	2.04	112.92	117.80	9	2
3	B	367	PX4	C11-C10-C9	2.04	106.22	113.69	5	1
3	B	382	PX4	C27-C26-C25	2.04	104.06	114.37	11	1
3	C	308	PX4	O7-C7-C8	2.04	115.66	108.34	2	3
3	C	312	PX4	O1-P1-O2	2.04	121.93	112.44	14	1
3	B	311	PX4	C30-C29-C28	2.04	104.07	114.37	6	1
3	B	337	PX4	O5-C9-C10	2.04	105.62	111.83	6	2
3	B	341	PX4	C3-N1-C2	2.04	101.81	109.91	14	1
3	C	330	PX4	C31-C30-C29	2.04	104.06	114.37	14	1
3	C	361	PX4	C5-N1-C4	2.04	114.33	108.98	13	1
3	B	376	PX4	C5-N1-C4	2.04	103.62	108.98	7	1
3	B	399	PX4	C4-N1-C2	2.04	101.81	109.91	15	1
3	A	623	PX4	C4-N1-C2	2.04	101.81	109.91	4	1
3	B	308	PX4	C5-N1-C4	2.04	103.63	108.98	5	1
3	B	364	PX4	C12-C11-C10	2.04	120.61	113.13	11	1
3	B	367	PX4	C12-C11-C10	2.04	105.64	113.13	9	1
3	C	317	PX4	C15-C14-C13	2.04	104.07	114.37	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	328	PX4	C12-C11-C10	2.04	105.64	113.13	11	2
3	A	609	PX4	C34-C33-C32	2.03	104.09	114.37	14	1
3	A	634	PX4	C26-C25-C24	2.03	105.65	113.13	14	1
3	B	337	PX4	P1-O4-C6	2.03	133.01	121.35	11	1
3	B	373	PX4	O4-P1-O2	2.03	100.87	108.94	10	1
3	A	632	PX4	O7-C23-O8	2.03	128.46	123.70	10	1
3	A	611	PX4	C11-C10-C9	2.03	106.25	113.69	8	1
3	A	614	PX4	C1-C2-N1	2.03	122.35	115.82	15	1
3	B	305	PX4	O4-P1-O2	2.03	116.99	108.94	5	1
3	B	327	PX4	O3-C1-C2	2.03	99.87	109.65	12	1
3	B	340	PX4	O7-C7-C8	2.03	115.64	108.34	15	1
3	B	392	PX4	O1-P1-O2	2.03	121.91	112.44	8	1
3	B	397	PX4	O7-C7-C6	2.03	115.64	108.34	8	1
3	C	327	PX4	C8-O5-C9	2.03	109.69	117.12	10	1
3	B	371	PX4	O3-P1-O2	2.03	116.99	108.94	2	1
3	C	322	PX4	C34-C33-C32	2.03	104.10	114.37	4	1
3	C	345	PX4	C5-N1-C2	2.03	117.99	109.91	8	1
3	A	639	PX4	O7-C23-O8	2.03	128.45	123.70	6	1
3	B	324	PX4	O6-C9-C10	2.03	131.72	123.78	10	1
3	C	310	PX4	C5-N1-C3	2.03	103.64	108.98	7	1
3	C	327	PX4	C25-C24-C23	2.03	106.25	113.69	4	1
3	A	602	PX4	C27-C26-C25	2.03	104.12	114.37	6	1
3	A	615	PX4	C27-C26-C25	2.03	104.11	114.37	14	1
3	A	611	PX4	C17-C16-C15	2.03	104.12	114.37	10	1
3	A	632	PX4	O7-C7-C8	2.03	101.07	108.34	7	1
3	B	353	PX4	C3-N1-C2	2.03	117.97	109.91	12	1
3	B	358	PX4	C5-N1-C3	2.03	114.31	108.98	14	1
3	C	337	PX4	O4-P1-O2	2.03	100.89	108.94	5	1
3	C	323	PX4	C26-C25-C24	2.03	105.68	113.13	7	1
3	C	341	PX4	C8-O5-C9	2.03	109.70	117.12	9	1
3	C	350	PX4	O1-P1-O2	2.03	121.88	112.44	3	1
3	B	305	PX4	C8-O5-C9	2.03	124.53	117.12	5	1
3	A	609	PX4	C8-O5-C9	2.03	109.71	117.12	14	1
3	A	627	PX4	C18-C17-C16	2.03	104.12	114.37	9	1
3	B	348	PX4	C4-N1-C2	2.03	101.85	109.91	2	1
3	B	349	PX4	P1-O3-C1	2.03	111.61	121.26	13	1
3	A	614	PX4	C27-C26-C25	2.03	104.13	114.37	10	1
3	A	626	PX4	C18-C17-C16	2.03	104.13	114.37	6	1
3	B	313	PX4	C1-C2-N1	2.03	122.33	115.82	2	1
3	B	319	PX4	C8-O5-C9	2.03	109.71	117.12	5	1
3	B	355	PX4	O5-C9-O6	2.03	128.70	123.63	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	364	PX4	C3-N1-C2	2.03	101.85	109.91	3	2
3	C	366	PX4	C31-C30-C29	2.03	104.12	114.37	8	1
3	A	646	PX4	C12-C11-C10	2.02	120.57	113.13	4	1
3	B	307	PX4	C5-N1-C4	2.02	103.66	108.98	7	2
3	A	619	PX4	O7-C23-O8	2.02	118.97	123.70	15	1
3	A	620	PX4	C1-C2-N1	2.02	122.32	115.82	9	1
3	B	316	PX4	O3-C1-C2	2.02	99.91	109.65	12	1
3	B	321	PX4	C29-C28-C27	2.02	104.13	114.37	7	1
3	B	370	PX4	O4-P1-O2	2.03	116.96	108.94	13	1
3	B	393	PX4	O1-P1-O2	2.02	121.86	112.44	14	1
3	A	623	PX4	C5-N1-C3	2.02	103.66	108.98	6	1
3	C	349	PX4	O7-C7-C8	2.02	115.61	108.34	2	1
3	C	358	PX4	P1-O4-C6	2.02	132.95	121.35	7	1
3	B	364	PX4	O7-C23-O8	2.02	128.44	123.70	11	1
3	C	369	PX4	O5-C9-C10	2.02	105.67	111.83	13	1
3	A	605	PX4	C13-C12-C11	2.02	104.15	114.37	7	1
3	A	608	PX4	C5-N1-C2	2.02	117.95	109.91	5	1
3	A	627	PX4	C26-C25-C24	2.02	105.70	113.13	3	1
3	A	639	PX4	C11-C10-C9	2.02	106.29	113.69	13	1
3	A	646	PX4	P1-O3-C1	2.02	111.64	121.26	4	1
3	B	326	PX4	C25-C24-C23	2.02	106.29	113.69	3	1
3	B	332	PX4	O6-C9-C10	2.02	131.69	123.78	10	1
3	B	347	PX4	C1-C2-N1	2.02	122.31	115.82	11	1
3	B	354	PX4	O1-P1-O2	2.02	121.85	112.44	5	1
3	B	372	PX4	C12-C11-C10	2.02	120.56	113.13	8	1
3	B	368	PX4	O5-C8-C7	2.02	114.22	108.40	7	1
3	C	318	PX4	C1-C2-N1	2.02	122.31	115.82	2	1
3	C	335	PX4	O7-C23-O8	2.02	128.43	123.70	12	1
3	C	340	PX4	C5-N1-C4	2.02	103.67	108.98	4	1
3	C	323	PX4	P1-O3-C1	2.02	111.64	121.26	4	1
3	C	327	PX4	O6-C9-C10	2.02	131.69	123.78	8	1
3	C	342	PX4	C32-C31-C30	2.02	124.58	114.37	6	1
3	C	367	PX4	O1-P1-O2	2.02	121.85	112.44	1	1
3	A	626	PX4	C12-C11-C10	2.02	120.55	113.13	9	1
3	A	636	PX4	C4-N1-C3	2.02	103.67	108.98	14	1
3	A	640	PX4	P1-O3-C1	2.02	130.87	121.26	7	1
3	B	329	PX4	O7-C7-C8	2.02	115.59	108.34	10	1
3	B	398	PX4	O1-P1-O3	2.02	116.72	107.57	12	1
3	C	325	PX4	C13-C12-C11	2.02	104.16	114.37	2	1
3	C	346	PX4	O3-P1-O2	2.02	116.94	108.94	12	1
3	C	363	PX4	O8-C23-C24	2.02	131.68	123.78	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	309	PX4	O7-C7-C8	2.02	115.58	108.34	11	1
3	A	602	PX4	C11-C10-C9	2.02	121.08	113.69	14	1
3	A	616	PX4	O8-C23-C24	2.02	115.89	123.78	10	1
3	A	631	PX4	O5-C9-O6	2.02	128.67	123.63	12	1
3	A	633	PX4	O7-C7-C8	2.02	115.58	108.34	2	2
3	A	623	PX4	C20-C19-C18	2.02	104.18	114.37	12	1
3	A	624	PX4	C4-N1-C3	2.02	103.68	108.98	15	1
3	B	308	PX4	C11-C10-C9	2.02	106.31	113.69	2	1
3	B	310	PX4	C5-N1-C2	2.02	101.90	109.91	8	1
3	B	334	PX4	C4-N1-C3	2.02	103.68	108.98	5	1
3	B	340	PX4	C4-N1-C3	2.02	103.68	108.98	13	1
3	B	346	PX4	C30-C29-C28	2.02	104.17	114.37	5	1
3	B	353	PX4	C19-C18-C17	2.02	104.17	114.37	2	1
3	B	399	PX4	C8-O5-C9	2.02	124.49	117.12	1	1
3	C	316	PX4	C5-N1-C2	2.02	117.93	109.91	7	1
3	C	317	PX4	O1-P1-O2	2.02	121.83	112.44	8	1
3	A	647	PX4	C15-C14-C13	2.02	104.18	114.37	11	1
3	B	306	PX4	O1-P1-O2	2.02	121.82	112.44	9	1
3	B	349	PX4	O6-C9-C10	2.02	131.66	123.78	15	1
3	C	341	PX4	O1-P1-O2	2.02	121.82	112.44	12	1
3	C	343	PX4	C30-C29-C28	2.02	124.56	114.37	10	1
3	B	317	PX4	C5-N1-C4	2.01	103.69	108.98	8	2
3	B	326	PX4	O5-C9-O6	2.01	128.66	123.63	13	1
3	B	346	PX4	O5-C8-C7	2.01	114.20	108.40	1	1
3	B	365	PX4	C31-C30-C29	2.01	104.19	114.37	14	1
3	B	367	PX4	C7-O7-C23	2.01	112.98	117.80	4	1
3	B	375	PX4	C36-C35-C34	2.01	126.96	113.36	3	1
3	C	308	PX4	C20-C19-C18	2.01	104.19	114.37	14	1
3	C	321	PX4	C5-N1-C3	2.01	103.69	108.98	1	1
3	C	327	PX4	O5-C9-C10	2.01	105.69	111.83	14	1
3	B	375	PX4	O7-C7-C8	2.01	115.56	108.34	2	1
3	B	390	PX4	O8-C23-C24	2.01	131.65	123.78	7	1
3	C	341	PX4	C5-N1-C2	2.01	117.91	109.91	15	1
3	B	341	PX4	O8-C23-C24	2.01	131.65	123.78	1	1
3	A	603	PX4	C8-O5-C9	2.01	109.77	117.12	6	1
3	A	622	PX4	C15-C14-C13	2.01	104.21	114.37	14	1
3	A	637	PX4	C26-C25-C24	2.01	105.74	113.13	7	1
3	B	340	PX4	C20-C19-C18	2.01	124.53	114.37	10	1
3	B	371	PX4	C5-N1-C3	2.01	103.69	108.98	12	1
3	B	391	PX4	O5-C9-C10	2.01	105.70	111.83	10	1
3	C	342	PX4	C1-C2-N1	2.01	122.28	115.82	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	B	335	PX4	O7-C7-C8	2.01	115.55	108.34	15	1
3	B	361	PX4	C15-C14-C13	2.01	104.21	114.37	11	1
3	B	371	PX4	O7-C23-O8	2.01	119.01	123.70	12	1
3	B	380	PX4	C5-N1-C4	2.01	103.70	108.98	7	1
3	B	392	PX4	C5-N1-C2	2.01	117.90	109.91	9	1
3	B	396	PX4	C27-C26-C25	2.01	124.53	114.37	4	1
3	C	365	PX4	C33-C32-C31	2.01	104.20	114.37	6	1
3	B	324	PX4	C4-N1-C3	2.01	114.25	108.98	1	1
3	B	328	PX4	C25-C24-C23	2.01	106.33	113.69	6	1
3	C	311	PX4	P1-O3-C1	2.01	130.82	121.26	10	1
3	C	327	PX4	O8-C23-C24	2.01	131.64	123.78	10	1
3	C	342	PX4	O7-C7-C6	2.01	115.55	108.34	4	1
3	C	359	PX4	C5-N1-C2	2.01	101.92	109.91	11	1
3	B	304	PX4	O7-C23-O8	2.01	128.40	123.70	12	1
3	B	305	PX4	C28-C27-C26	2.01	104.22	114.37	4	1
3	B	307	PX4	O6-C9-C10	2.01	131.63	123.78	12	1
3	B	391	PX4	C5-N1-C4	2.01	103.70	108.98	4	1
3	C	329	PX4	C11-C10-C9	2.01	106.34	113.69	5	1
3	C	330	PX4	O7-C7-C6	2.01	101.14	108.34	15	1
3	C	356	PX4	O6-C9-C10	2.01	131.63	123.78	7	1
3	A	605	PX4	C4-N1-C3	2.01	103.71	108.98	4	1
3	A	617	PX4	O6-C9-C10	2.00	115.94	123.78	7	1
3	A	635	PX4	O5-C9-C10	2.01	105.72	111.83	12	1
3	B	339	PX4	C12-C11-C10	2.01	105.76	113.13	6	1
3	B	341	PX4	C5-N1-C3	2.01	103.71	108.98	5	1
3	B	348	PX4	C25-C24-C23	2.01	106.35	113.69	2	1
3	C	308	PX4	O7-C23-O8	2.01	128.40	123.70	2	1
3	B	376	PX4	C8-O5-C9	2.00	109.79	117.12	14	1
3	B	385	PX4	O3-C1-C2	2.01	119.30	109.65	12	1
3	B	389	PX4	O7-C7-C6	2.01	101.15	108.34	6	1
3	C	354	PX4	C1-C2-N1	2.01	122.26	115.82	11	1
3	A	622	PX4	C33-C32-C31	2.00	124.50	114.37	12	1
3	B	309	PX4	C4-N1-C3	2.00	103.72	108.98	4	1
3	B	310	PX4	C5-N1-C3	2.00	114.24	108.98	10	1
3	B	339	PX4	C11-C10-C9	2.00	121.04	113.69	6	1
3	B	355	PX4	C15-C14-C13	2.00	104.24	114.37	9	1
3	C	330	PX4	O1-P1-O2	2.00	121.76	112.44	5	1
3	C	354	PX4	O1-P1-O2	2.00	121.77	112.44	13	1
3	C	312	PX4	C8-O5-C9	2.00	124.44	117.12	2	1
3	A	620	PX4	C27-C26-C25	2.00	104.25	114.37	14	1
3	A	642	PX4	O4-P1-O2	2.00	116.87	108.94	13	1

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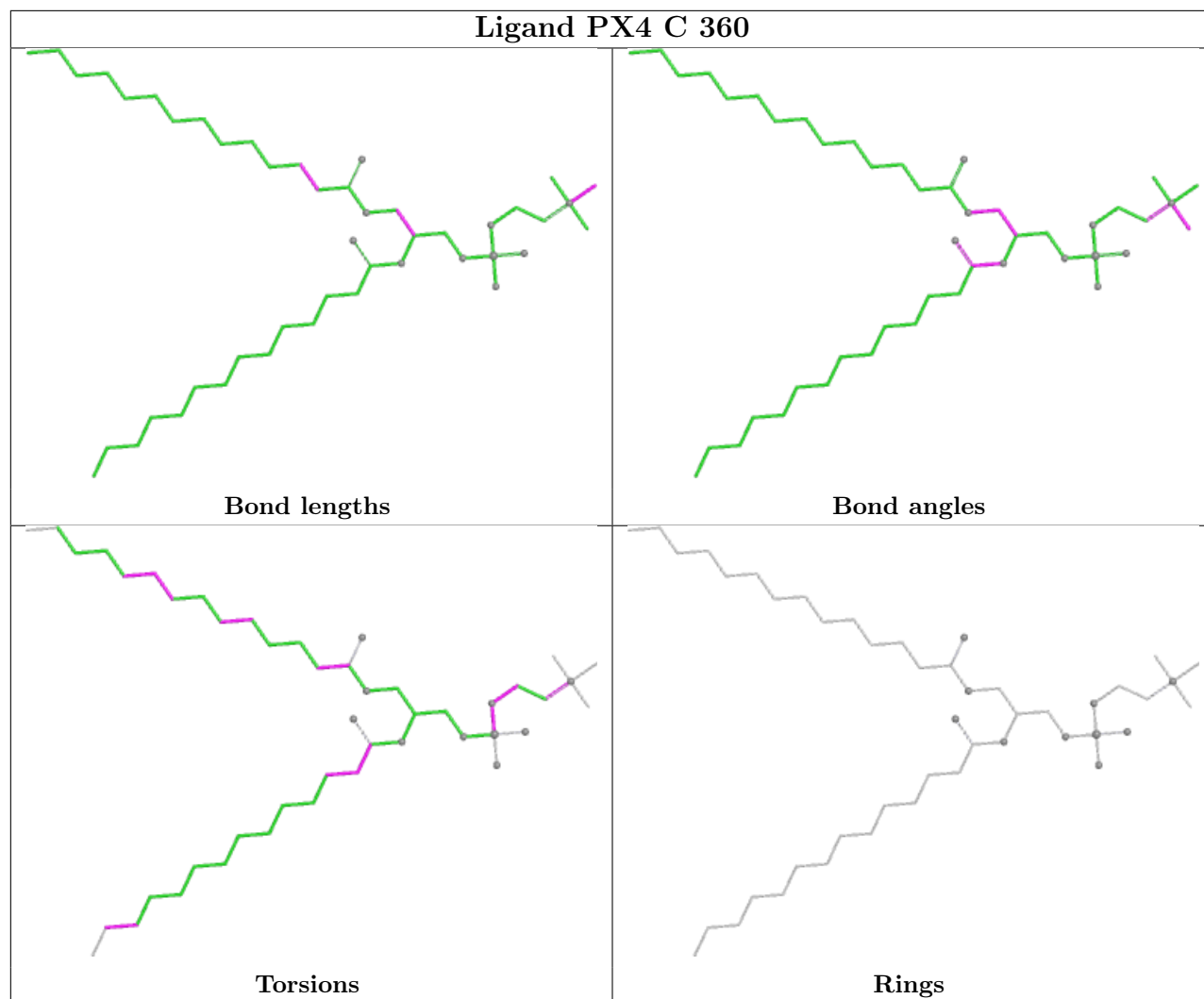
Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
3	C	303	PX4	C34-C33-C32	2.00	104.25	114.37	13	1
3	B	377	PX4	C8-O5-C9	2.00	109.81	117.12	1	1
3	C	307	PX4	C25-C24-C23	2.00	106.36	113.69	9	1
3	C	307	PX4	P1-O3-C1	2.00	130.79	121.26	14	1
3	C	316	PX4	C30-C29-C28	2.00	104.25	114.37	11	1
3	C	317	PX4	C12-C11-C10	2.00	105.77	113.13	6	1
3	C	321	PX4	O7-C7-C6	2.00	115.53	108.34	2	1
3	C	327	PX4	C12-C11-C10	2.00	105.77	113.13	14	1
3	A	623	PX4	C18-C17-C16	2.00	104.26	114.37	5	1
3	B	348	PX4	C32-C31-C30	2.00	104.26	114.37	10	1
3	B	382	PX4	O7-C7-C8	2.00	115.52	108.34	3	1
3	C	321	PX4	C12-C11-C10	2.00	105.78	113.13	15	1
3	C	347	PX4	C8-O5-C9	2.00	109.81	117.12	15	1

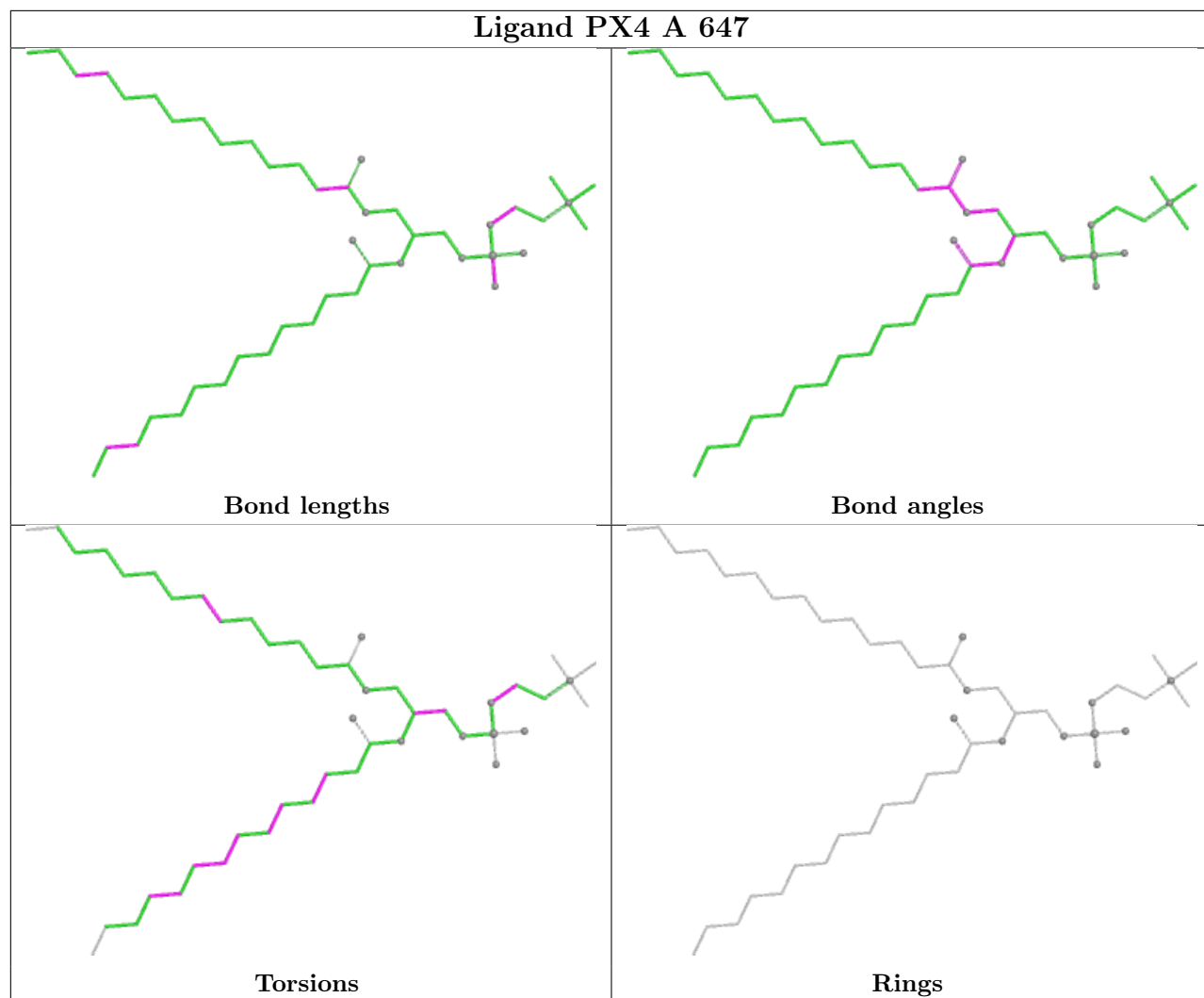
There are no chirality outliers.

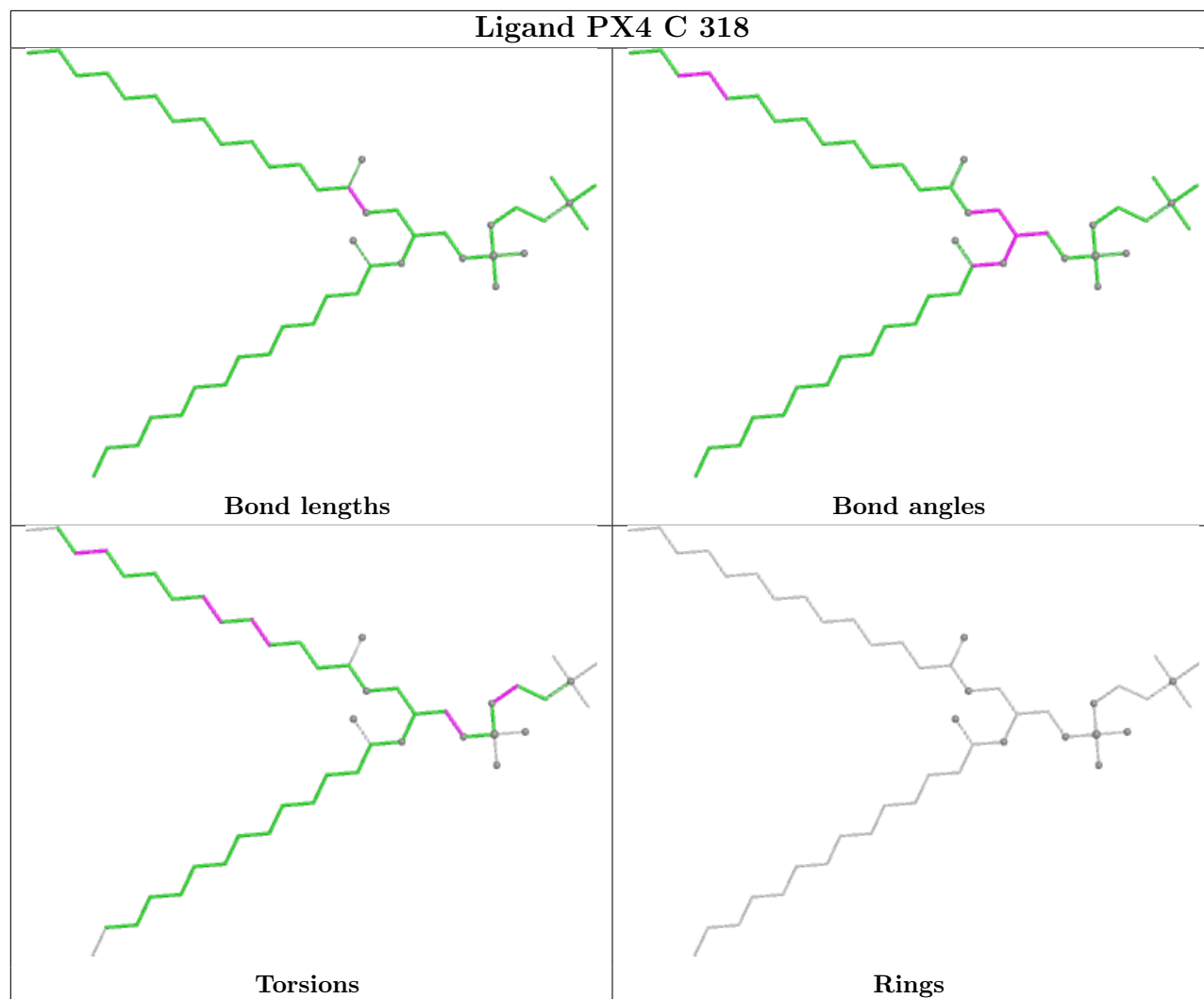
There are no torsion outliers.

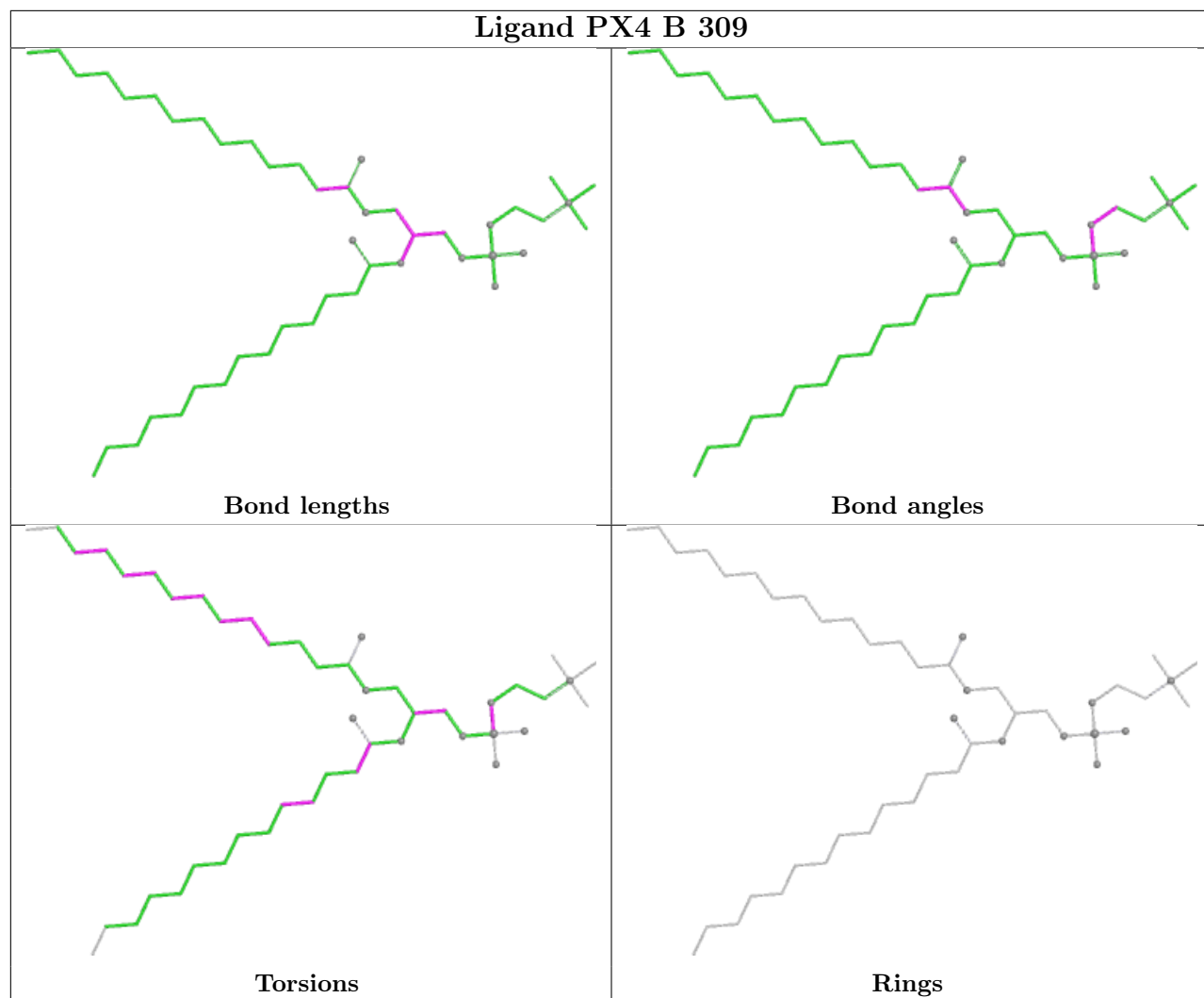
There are no ring outliers.

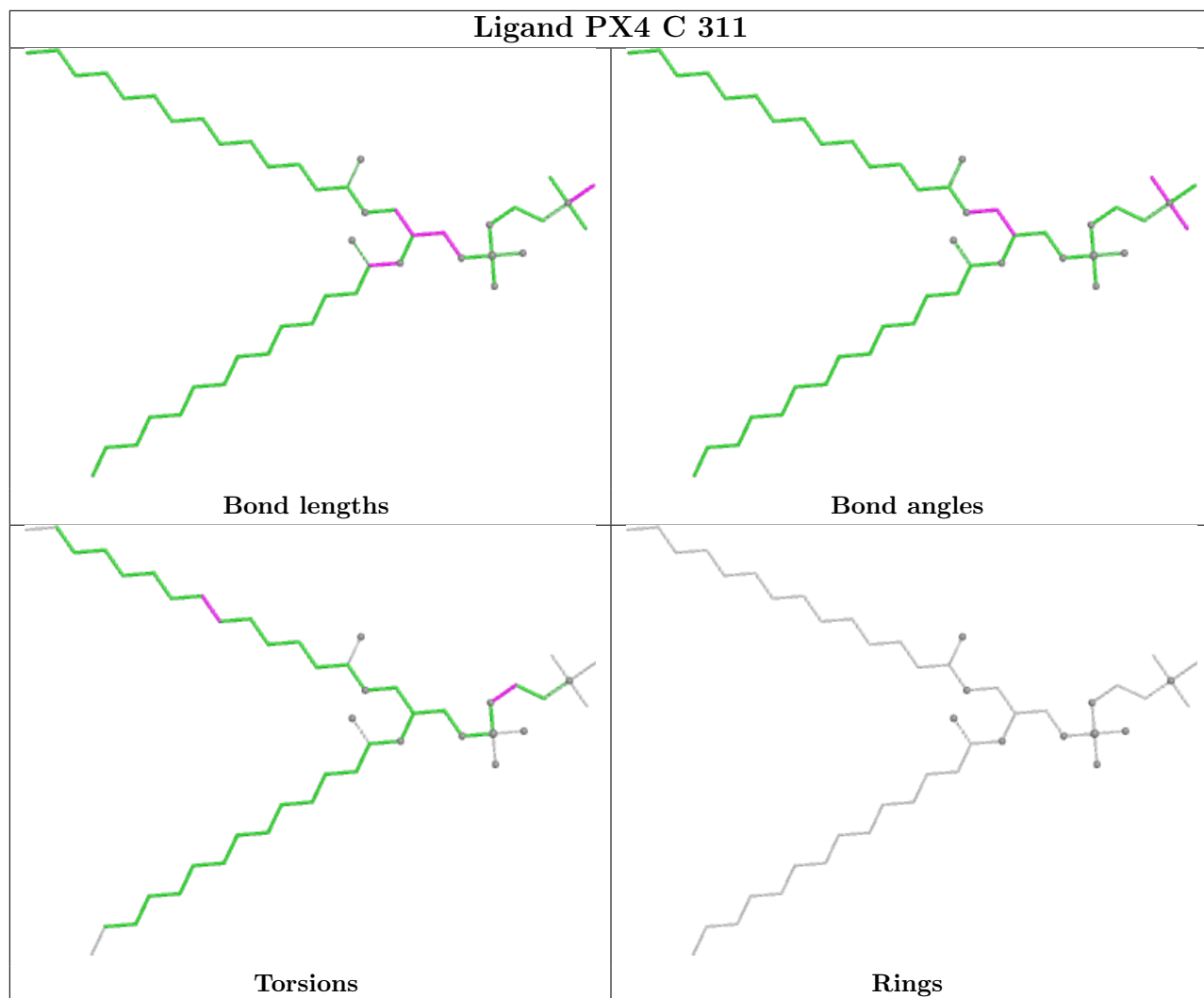
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

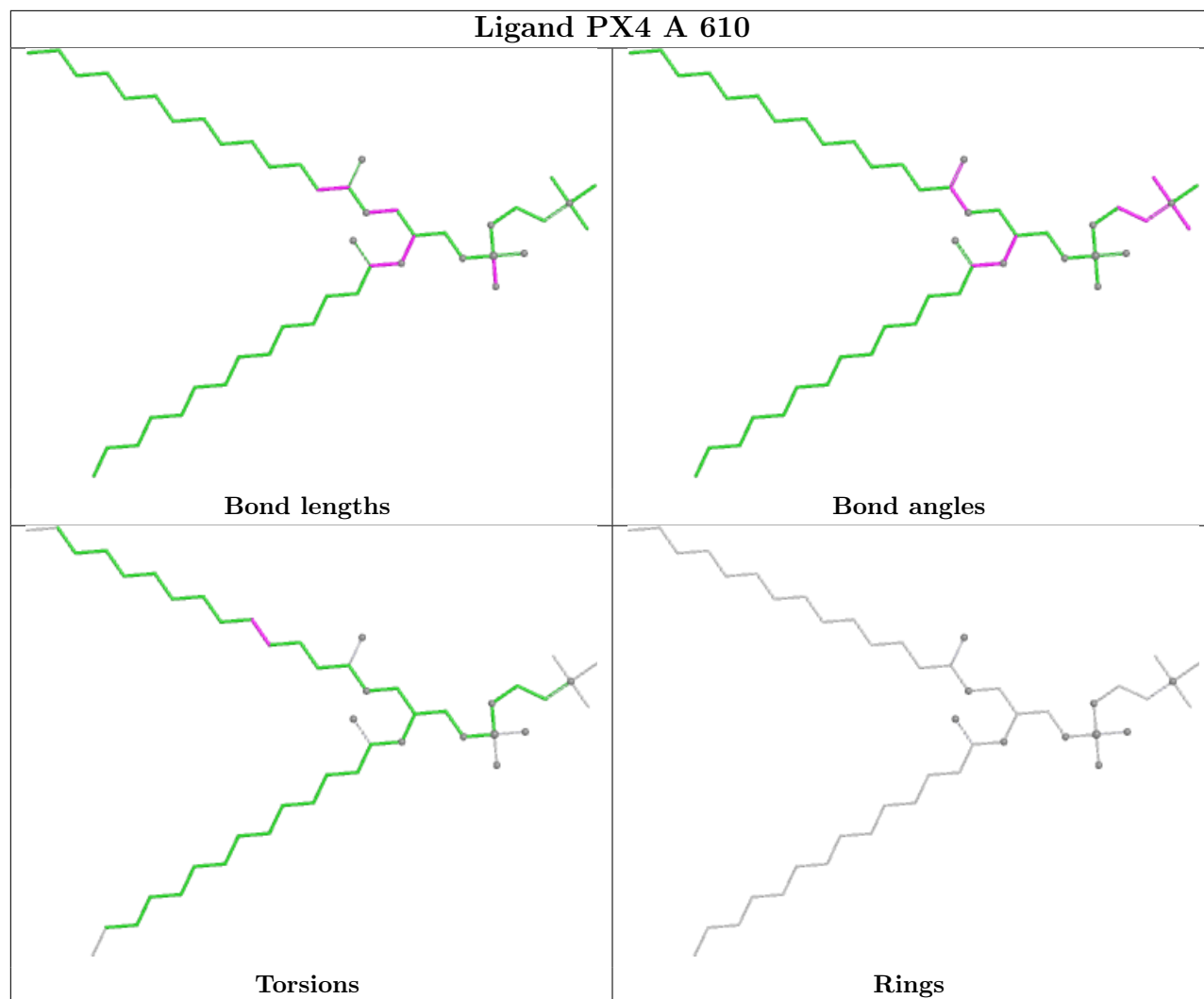


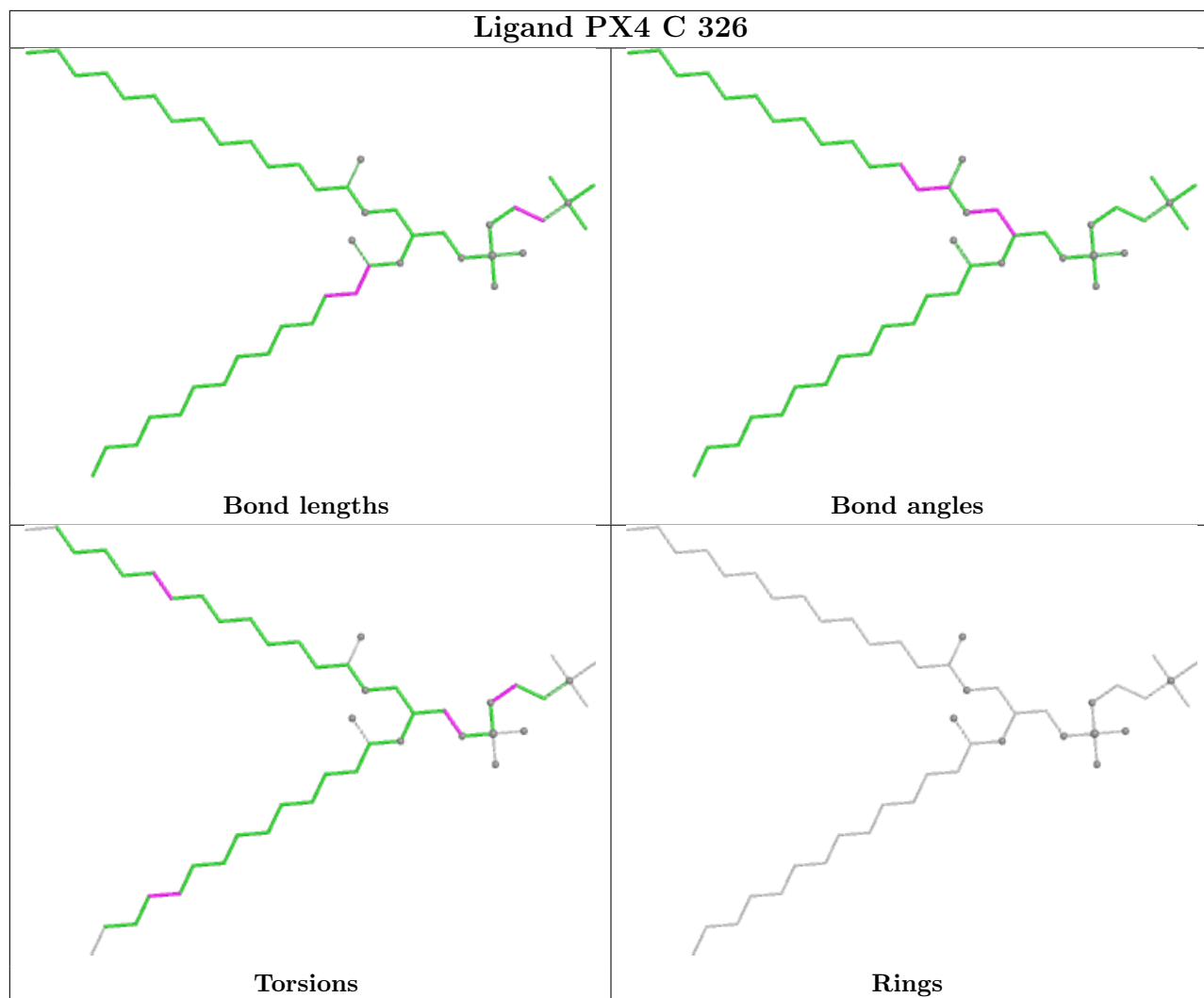


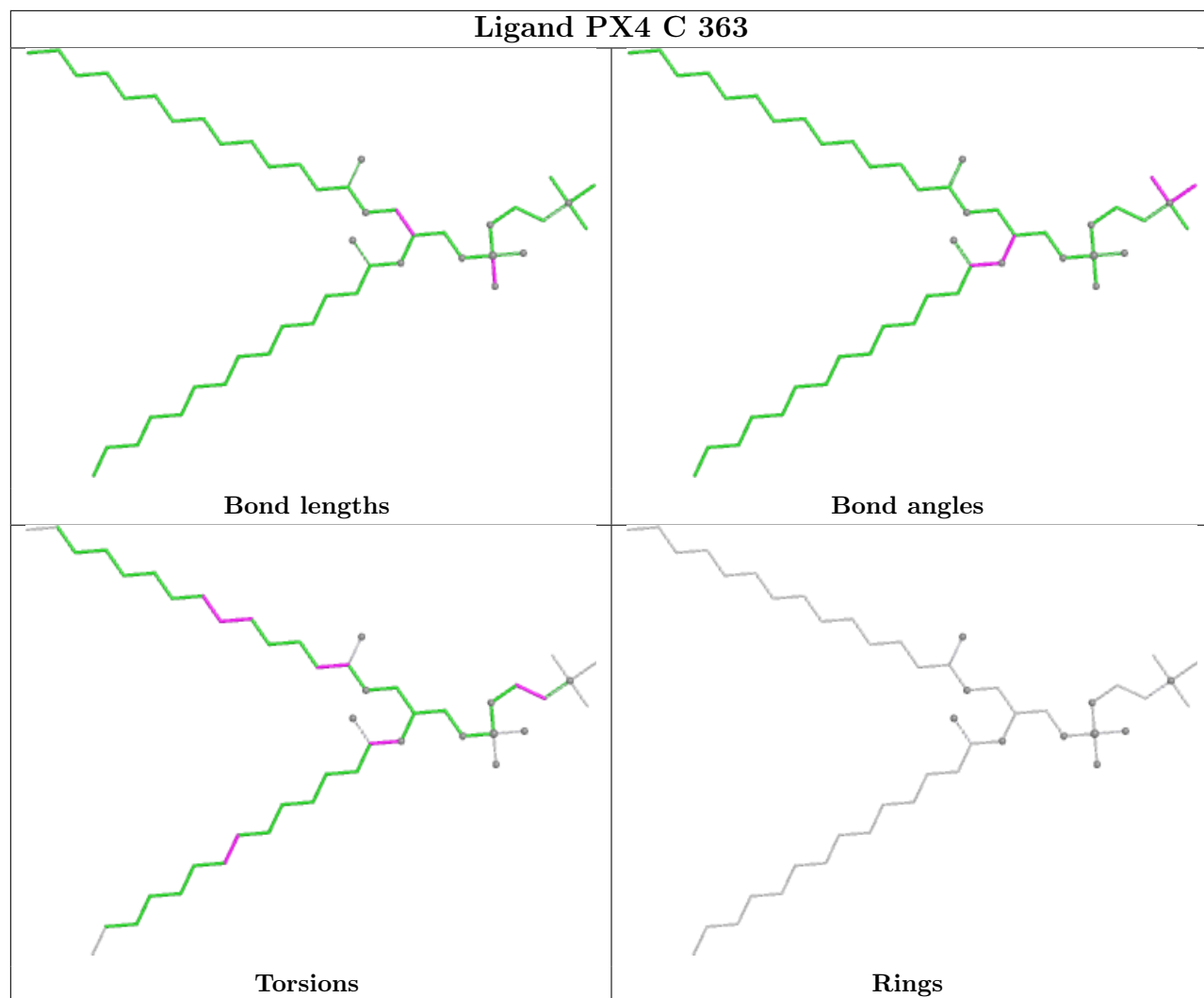


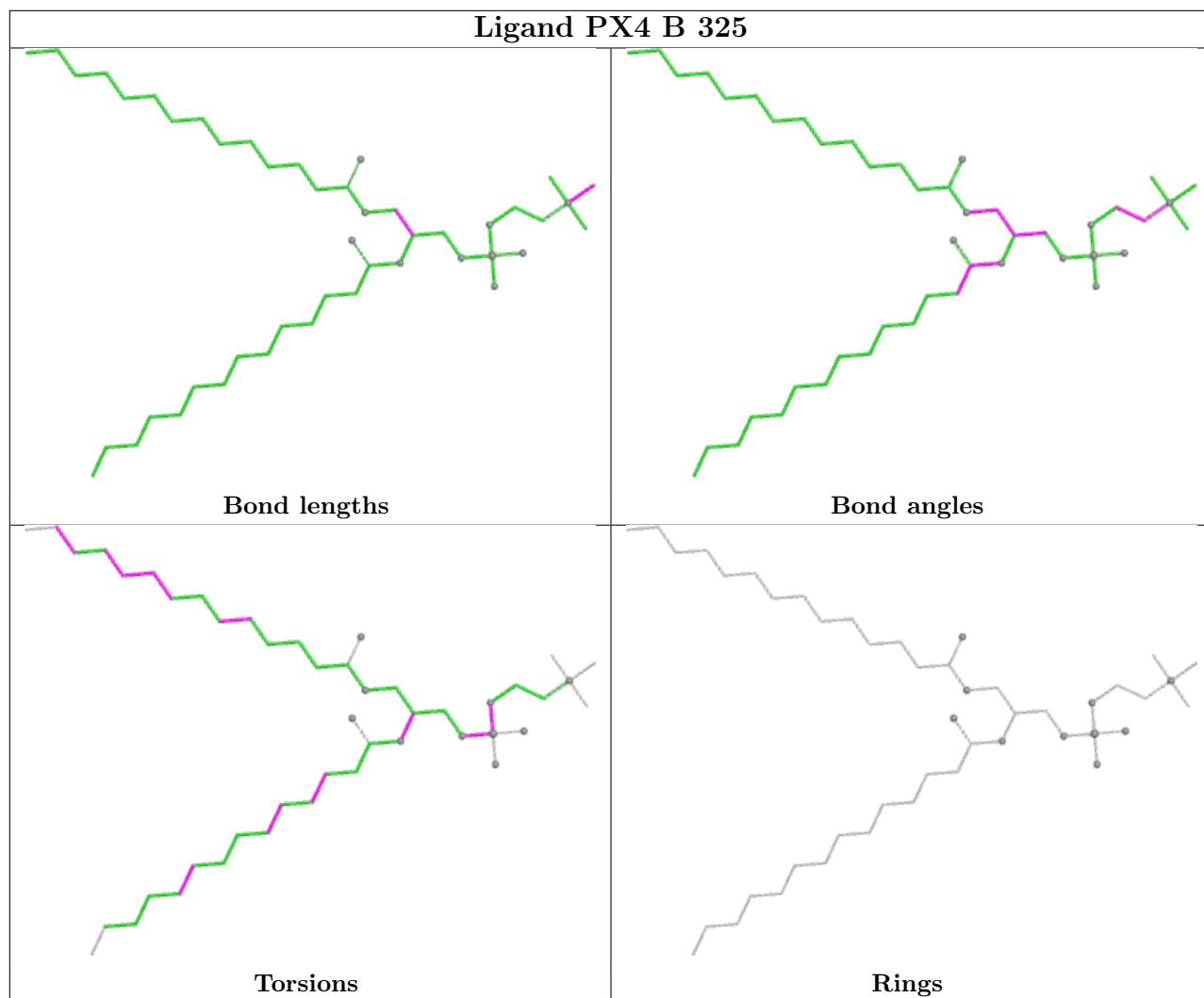


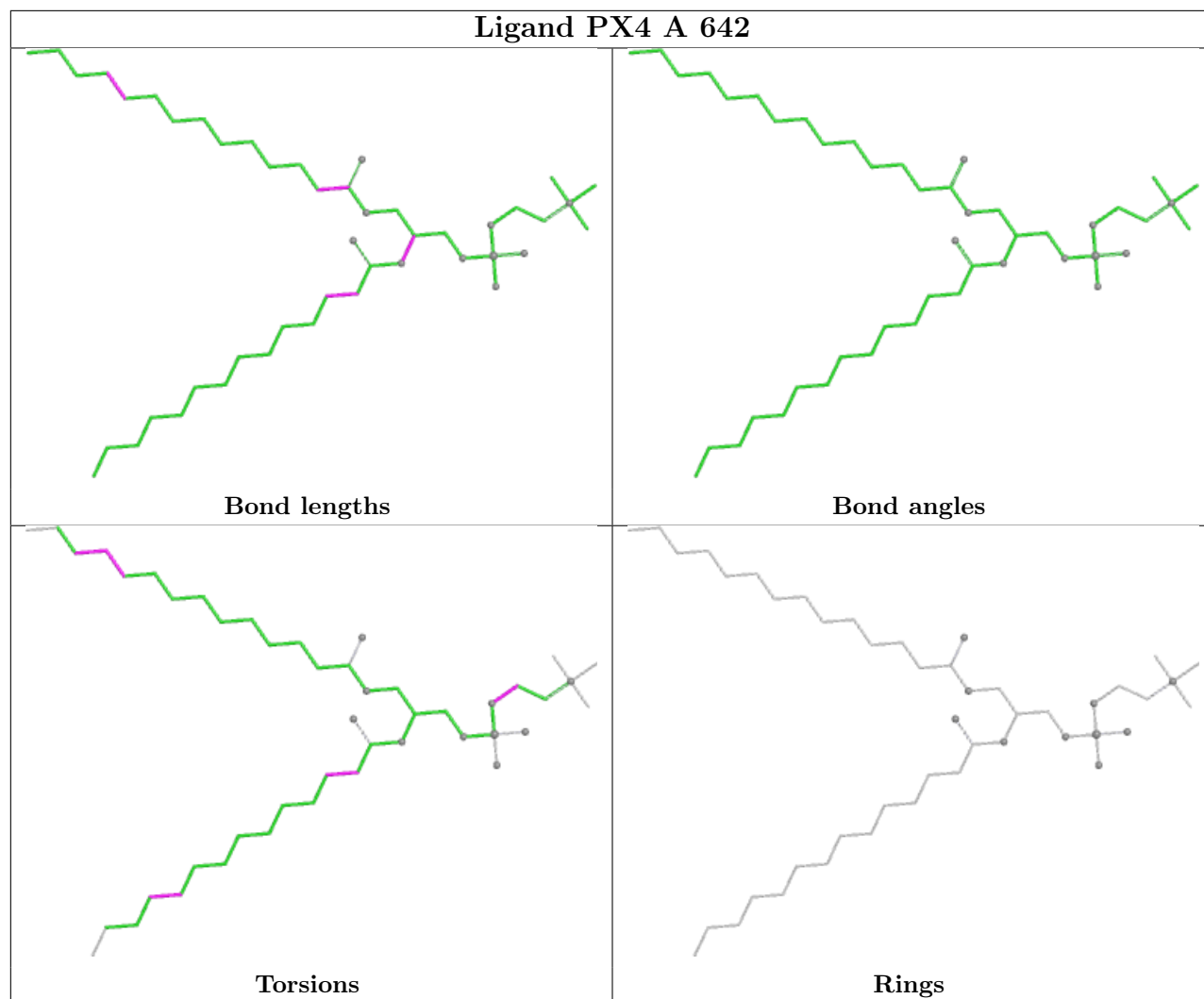


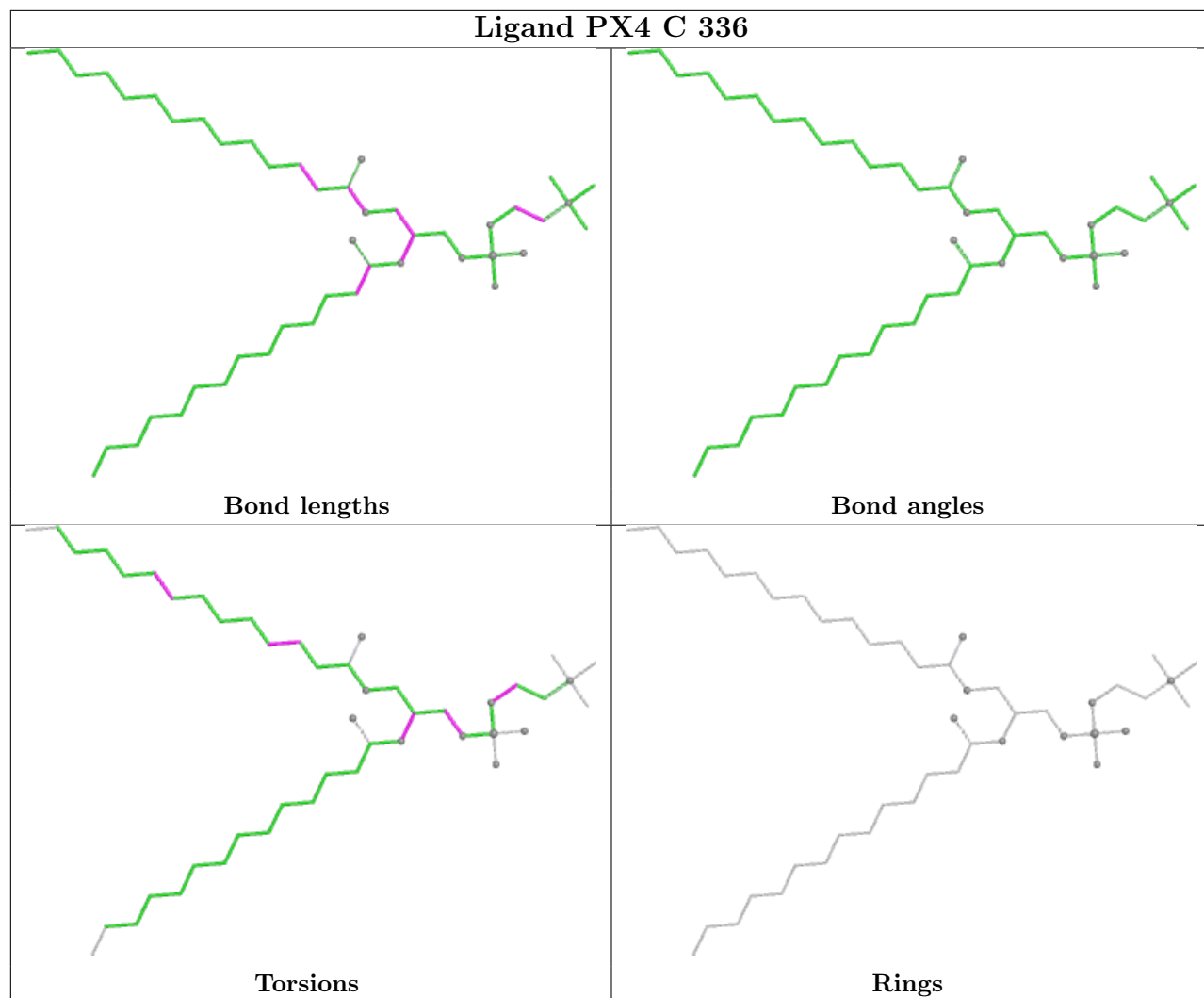


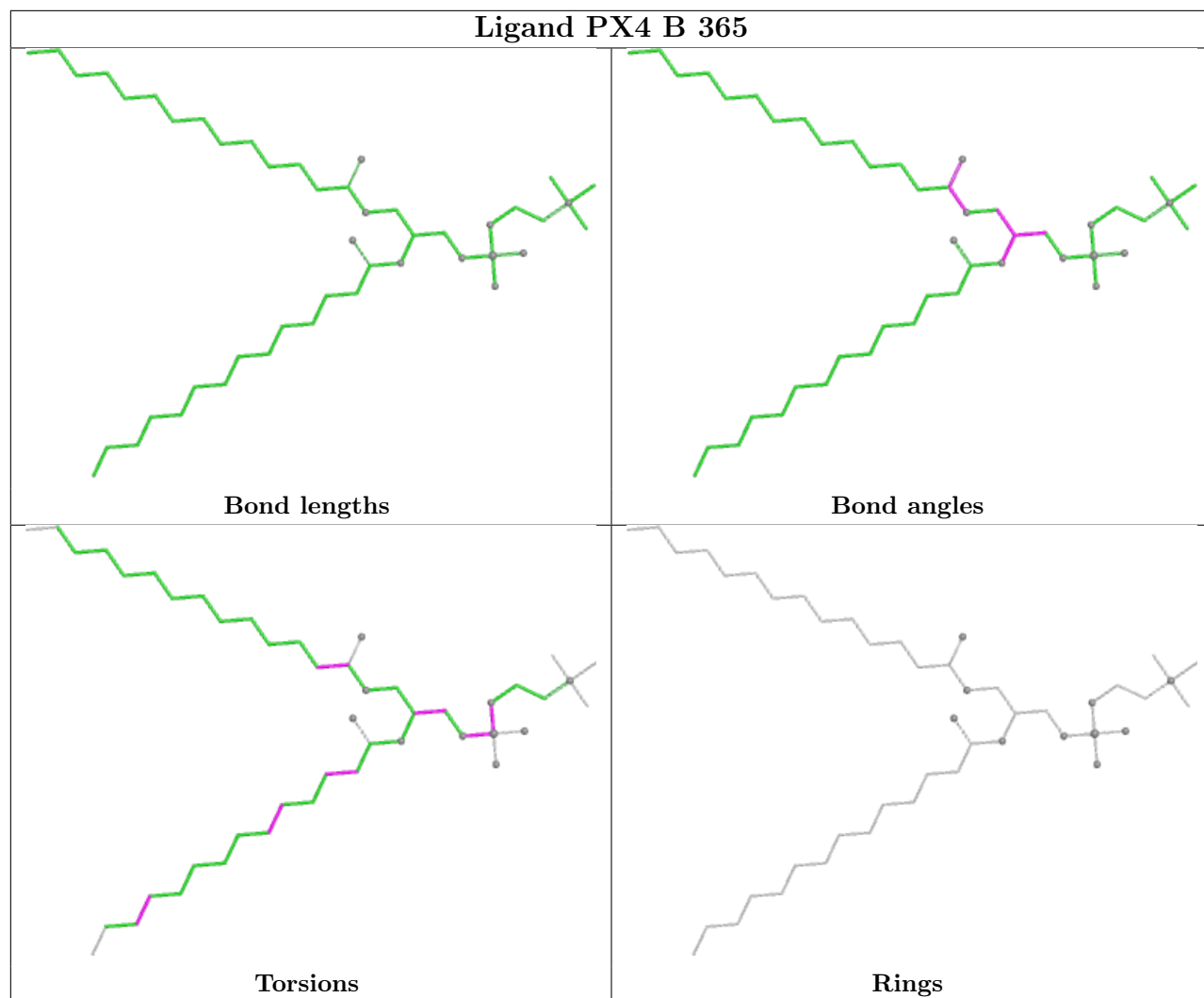


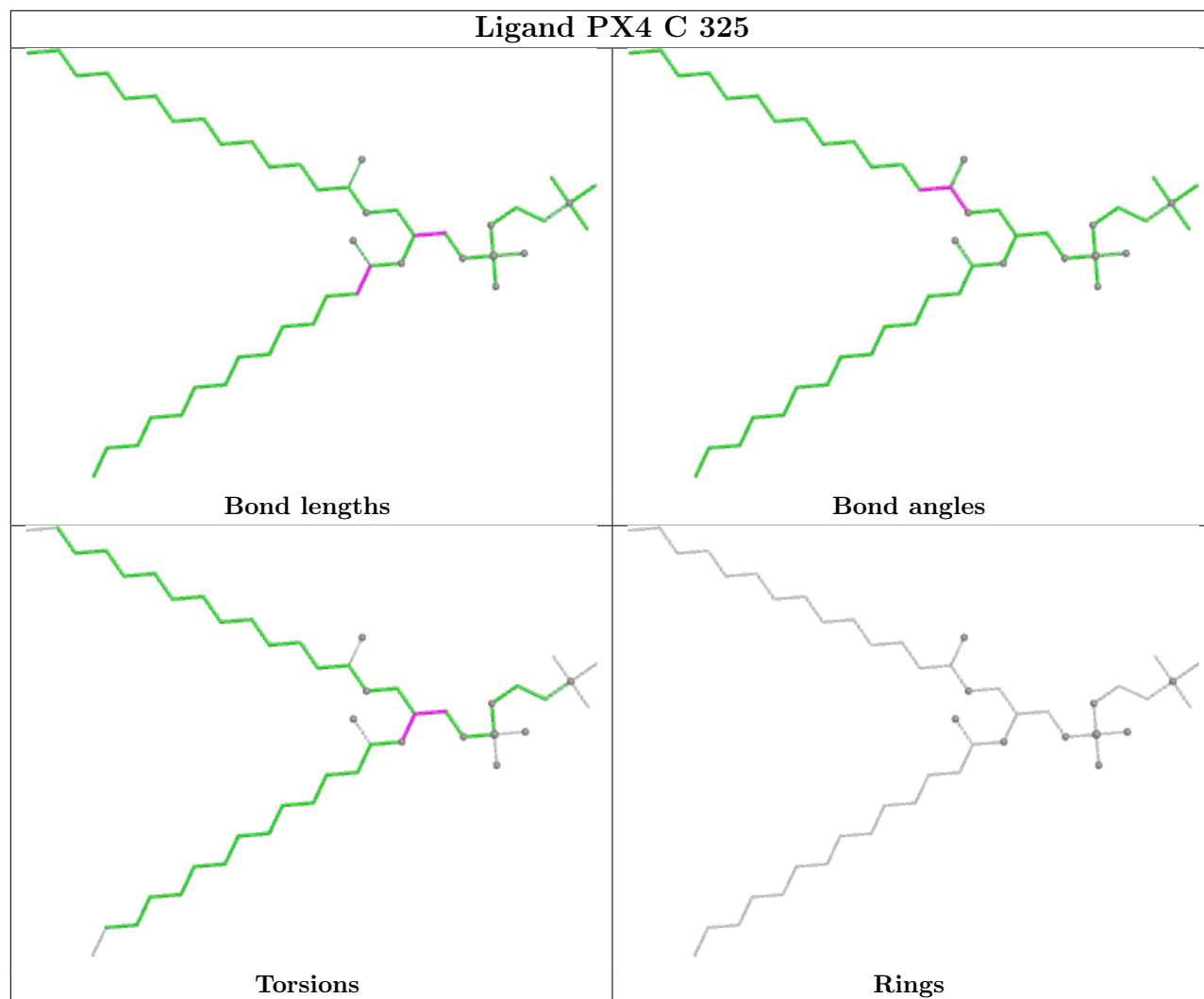


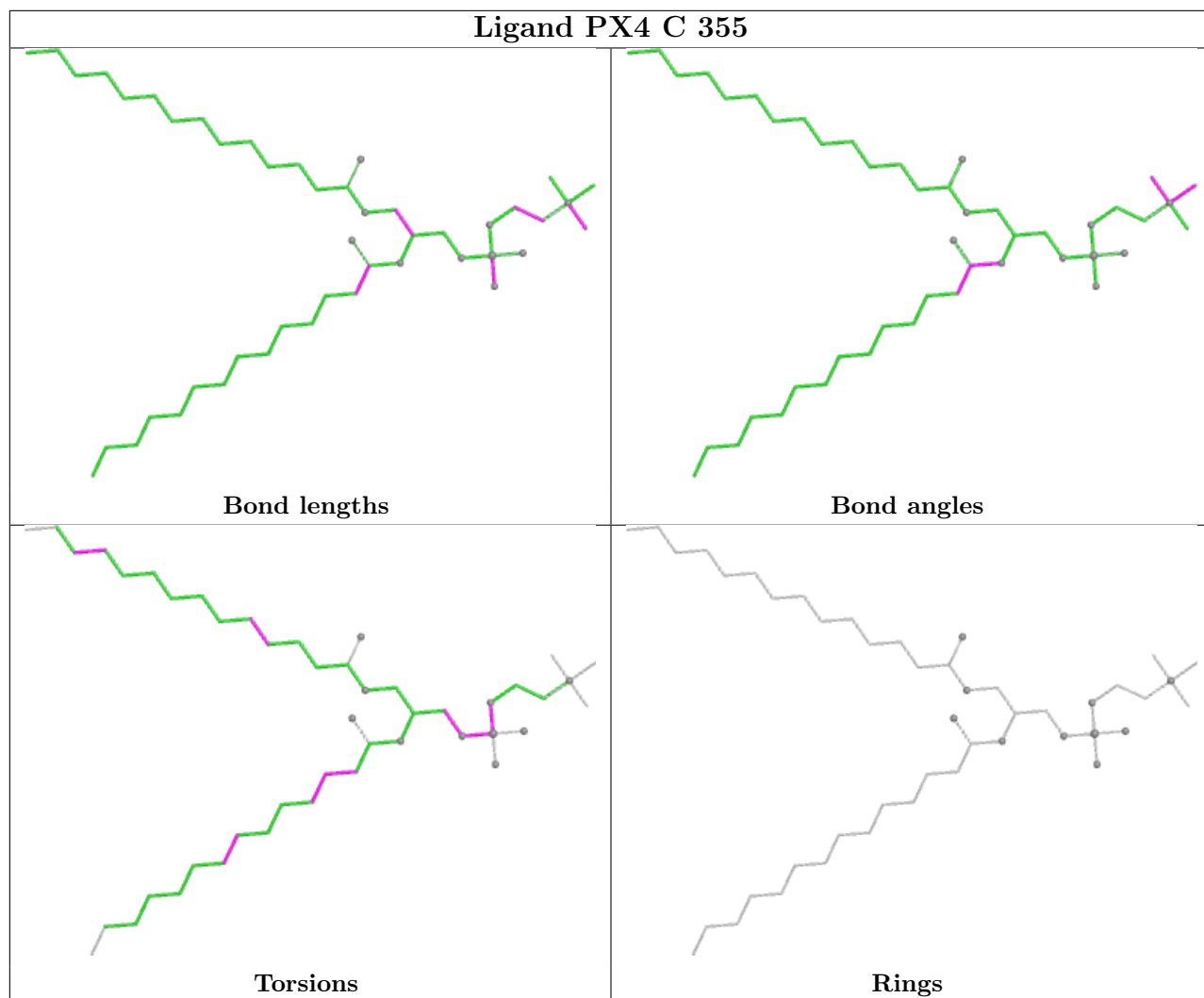


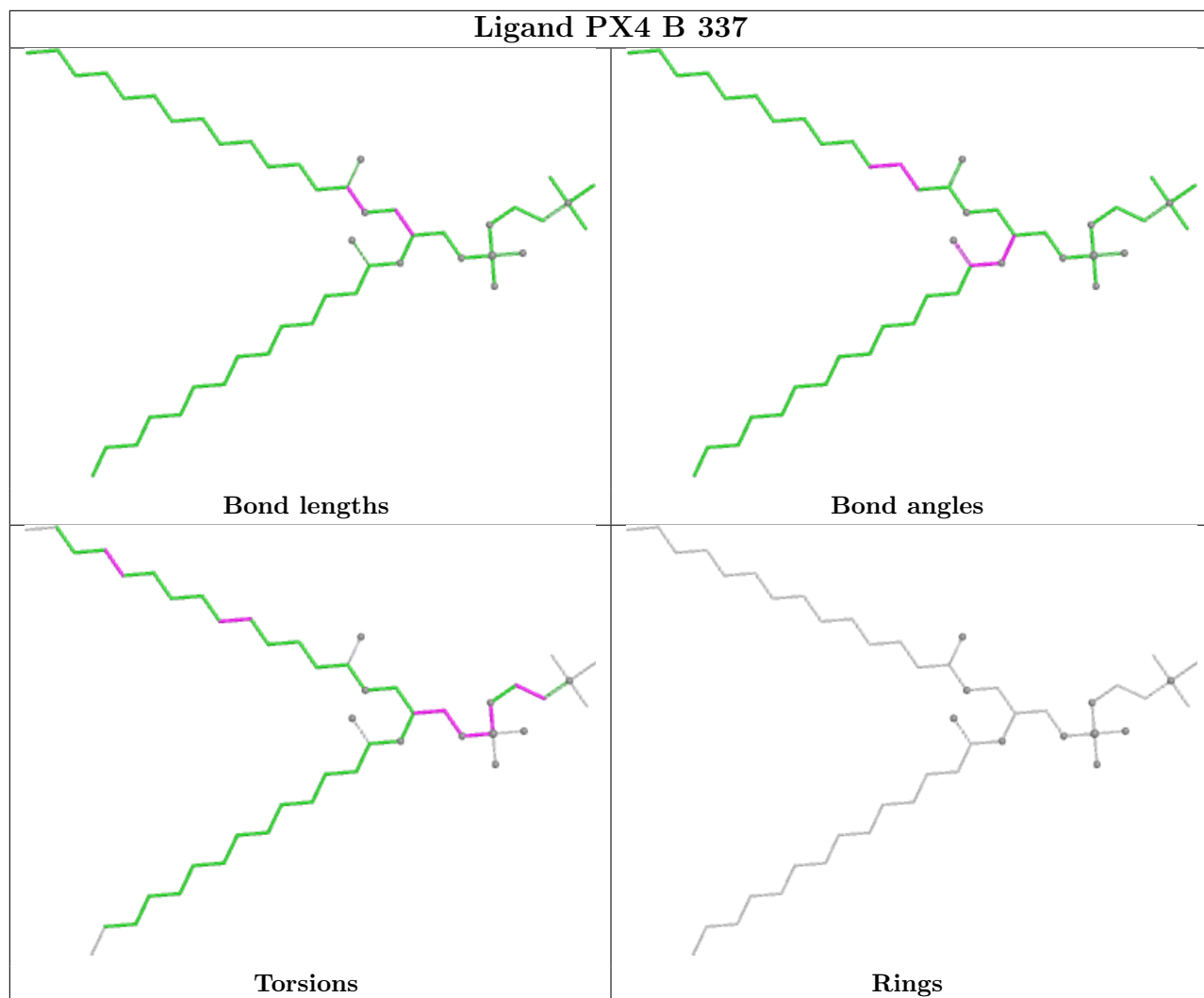


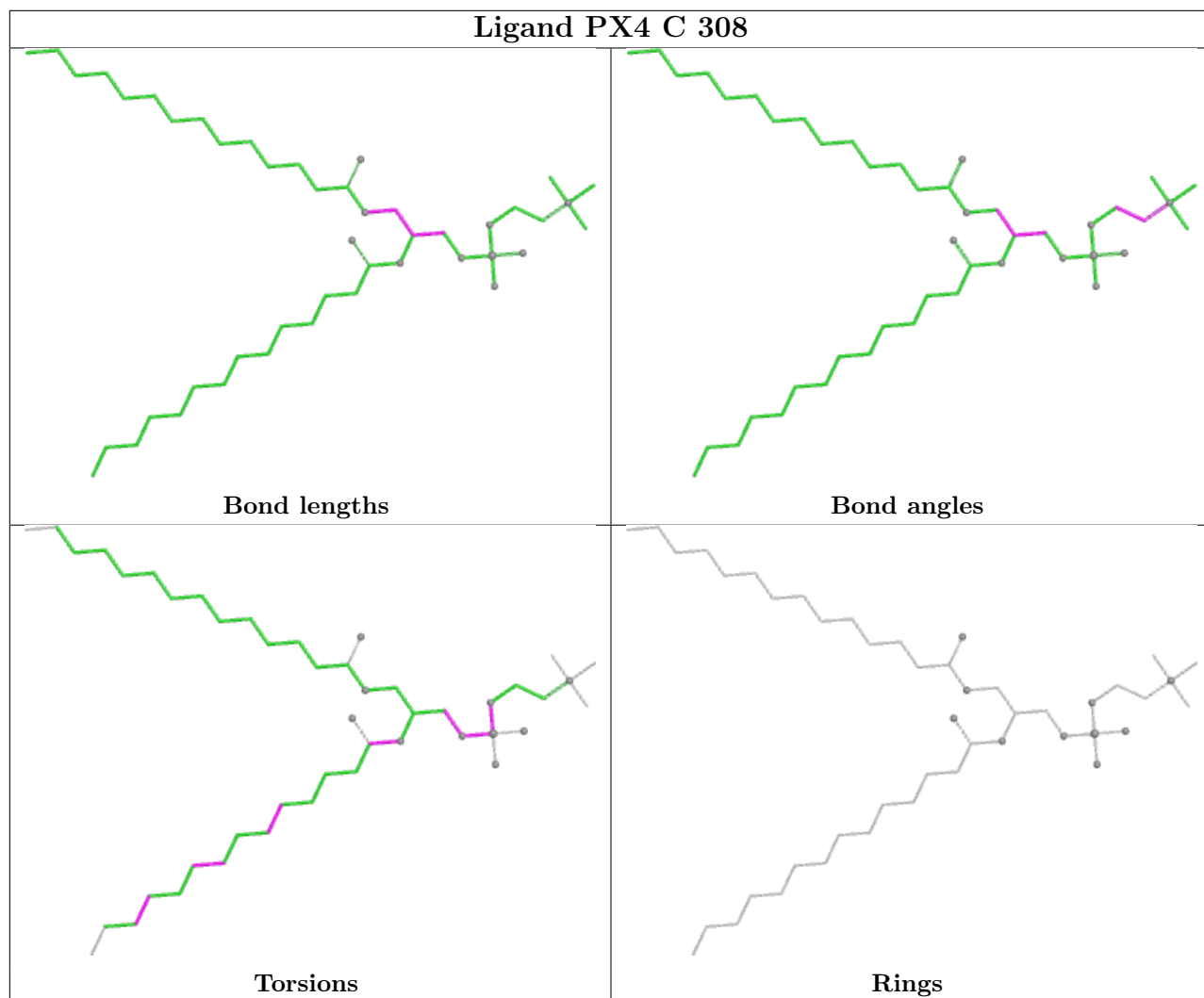


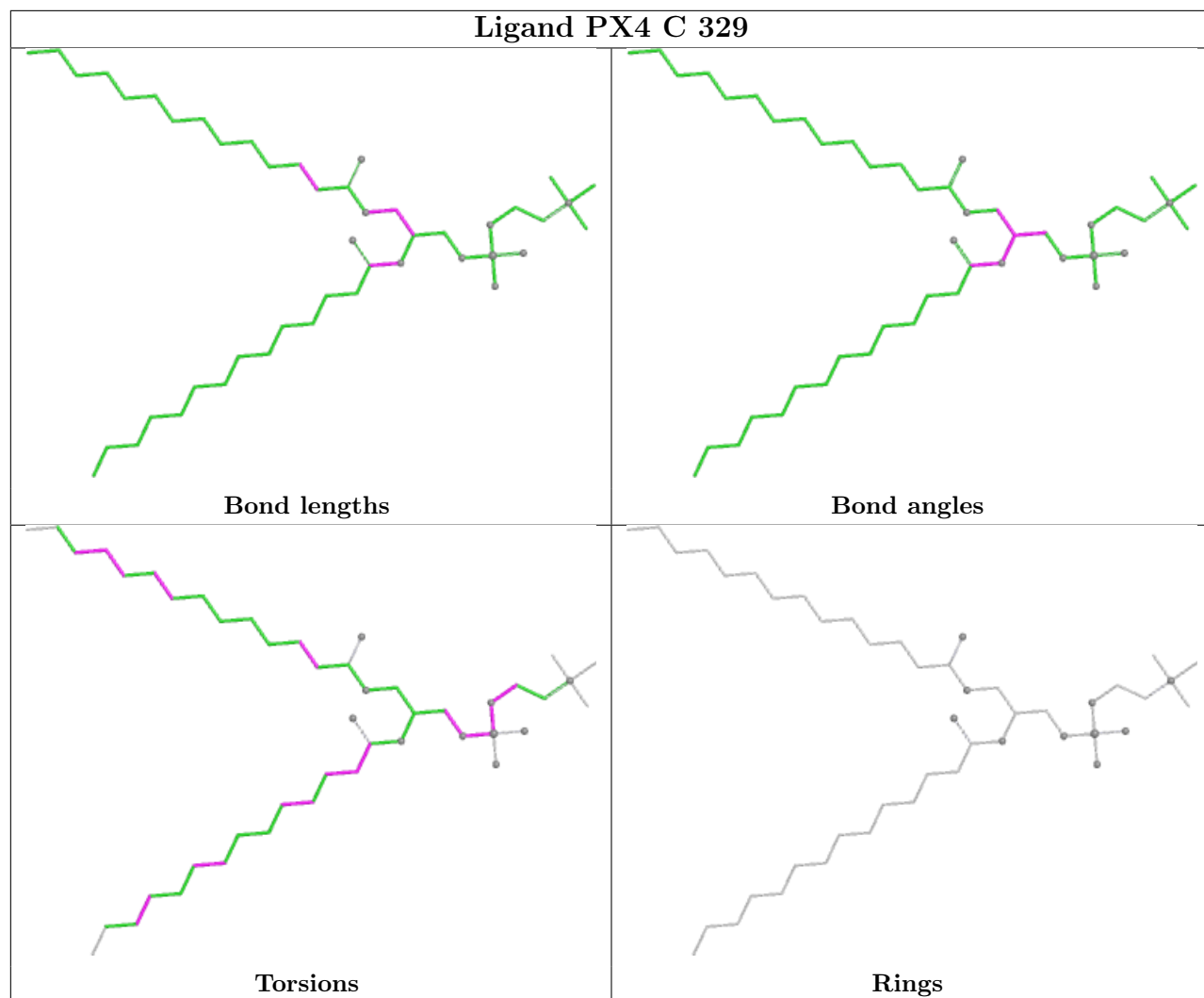


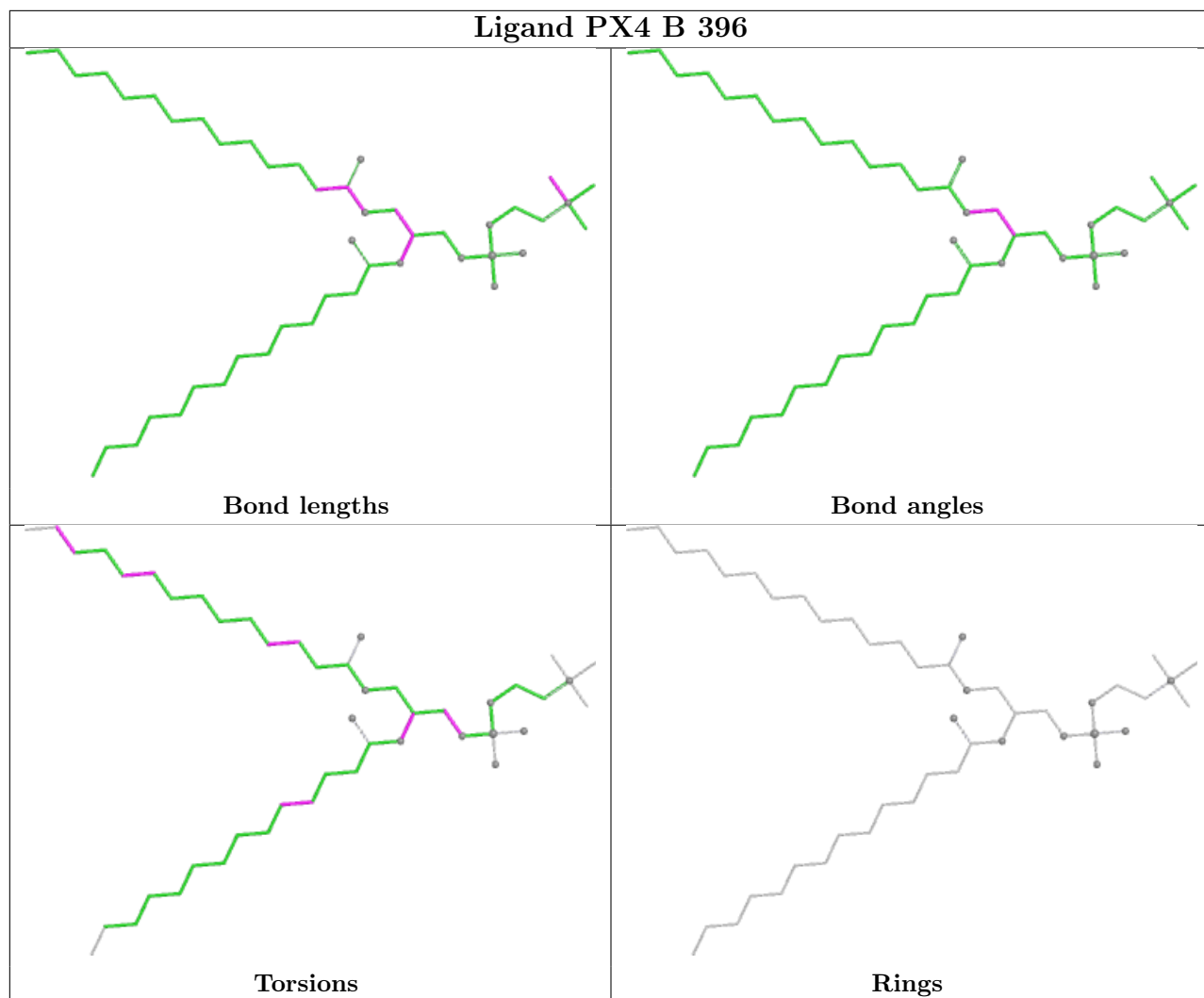


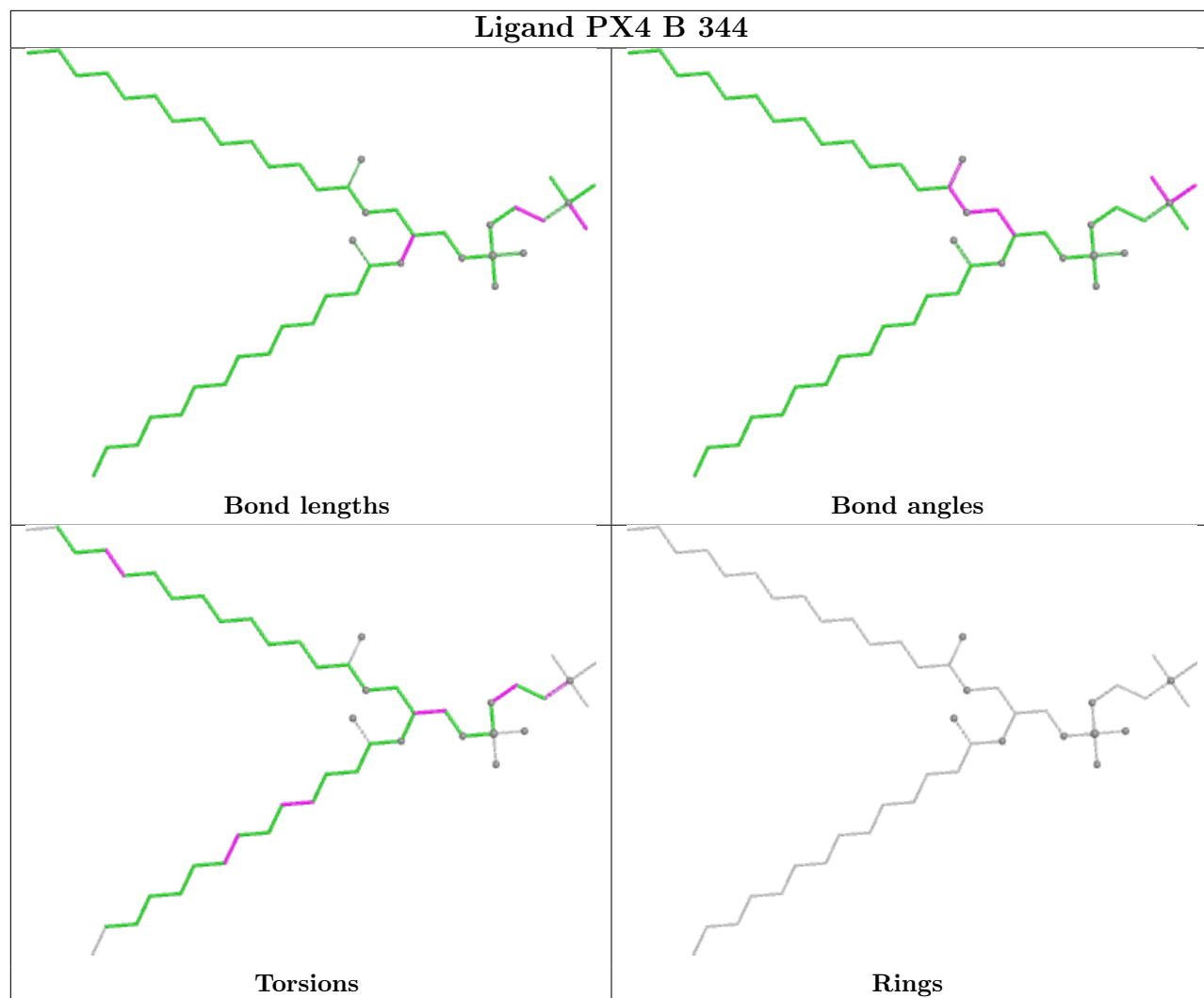


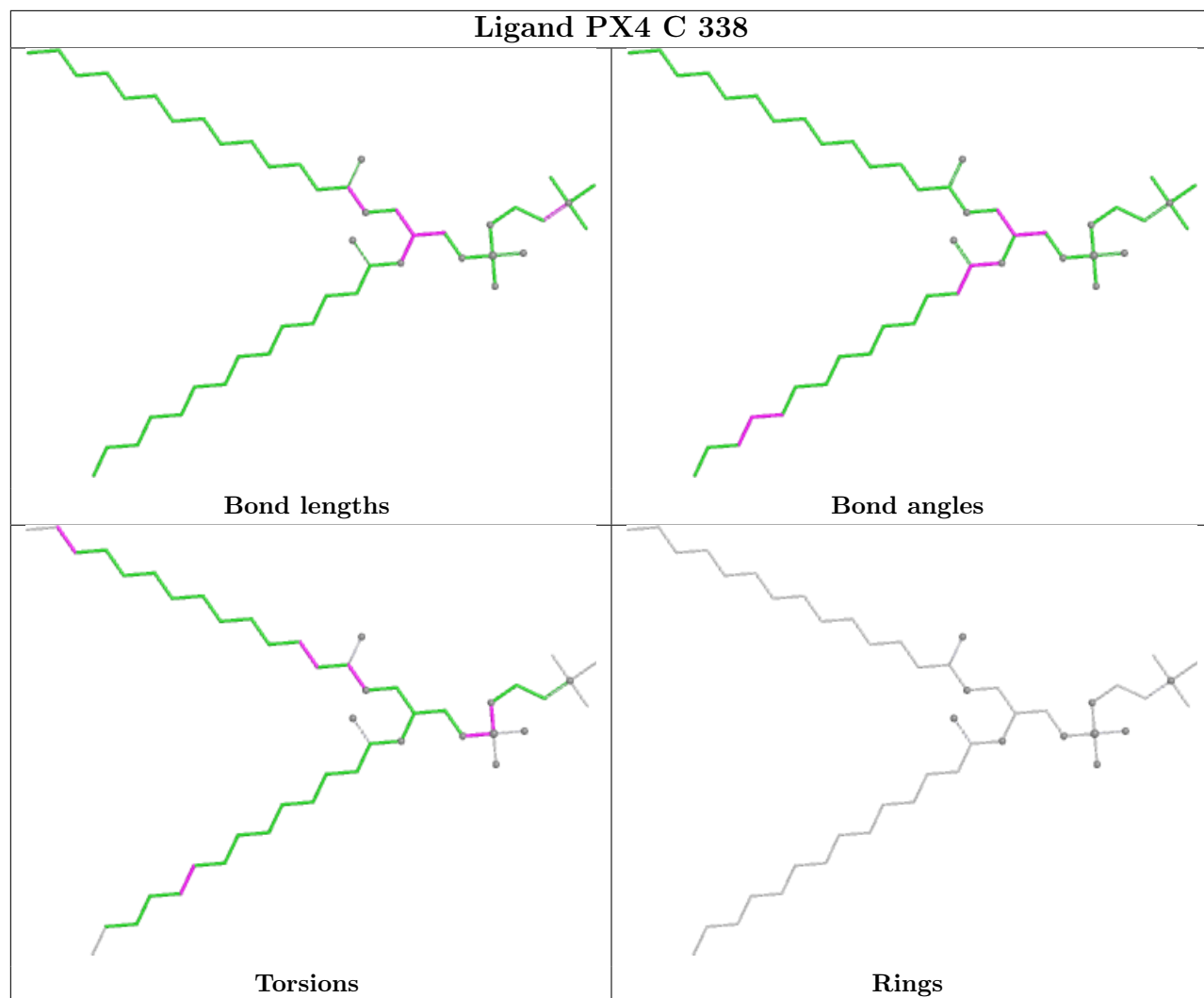


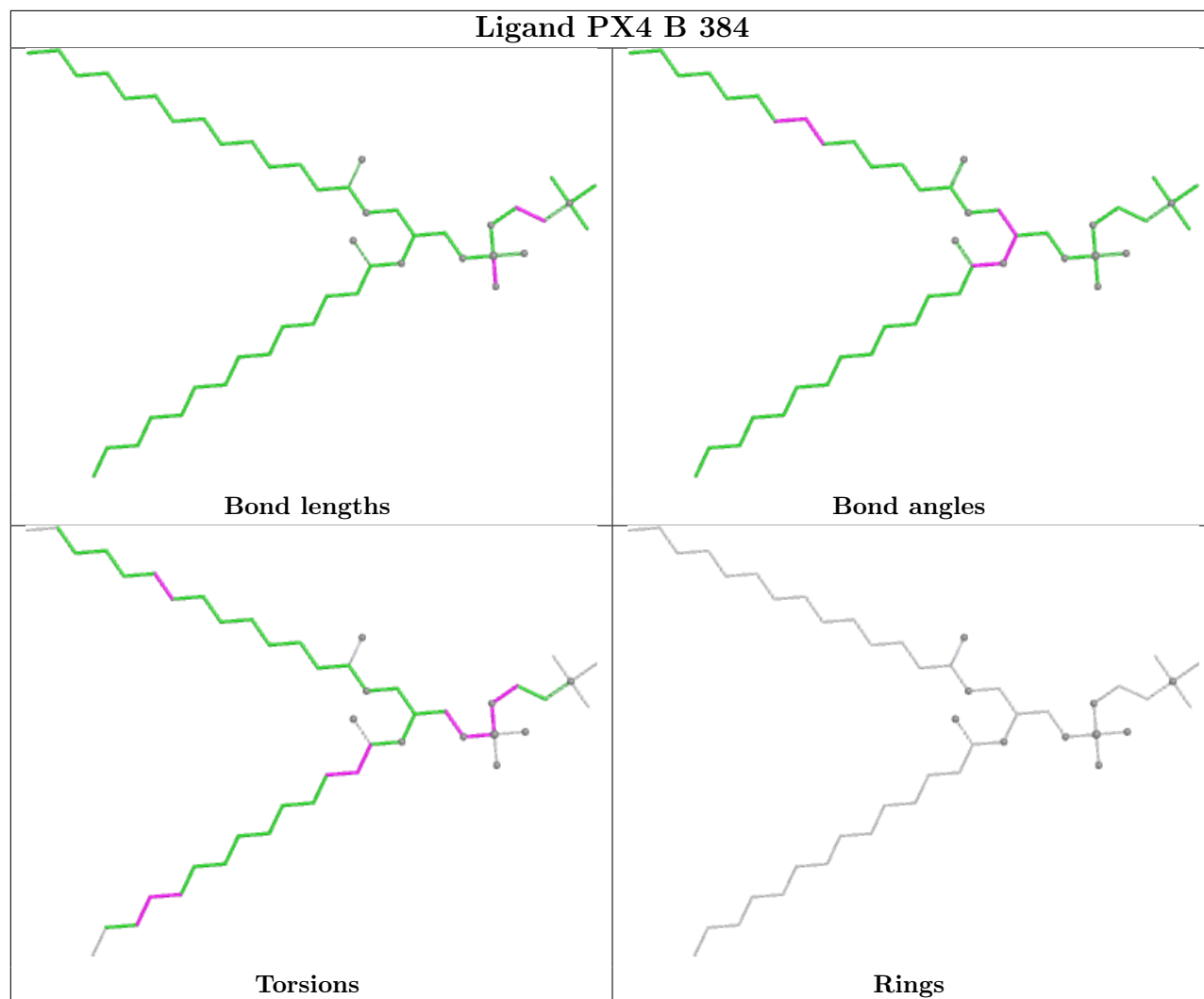


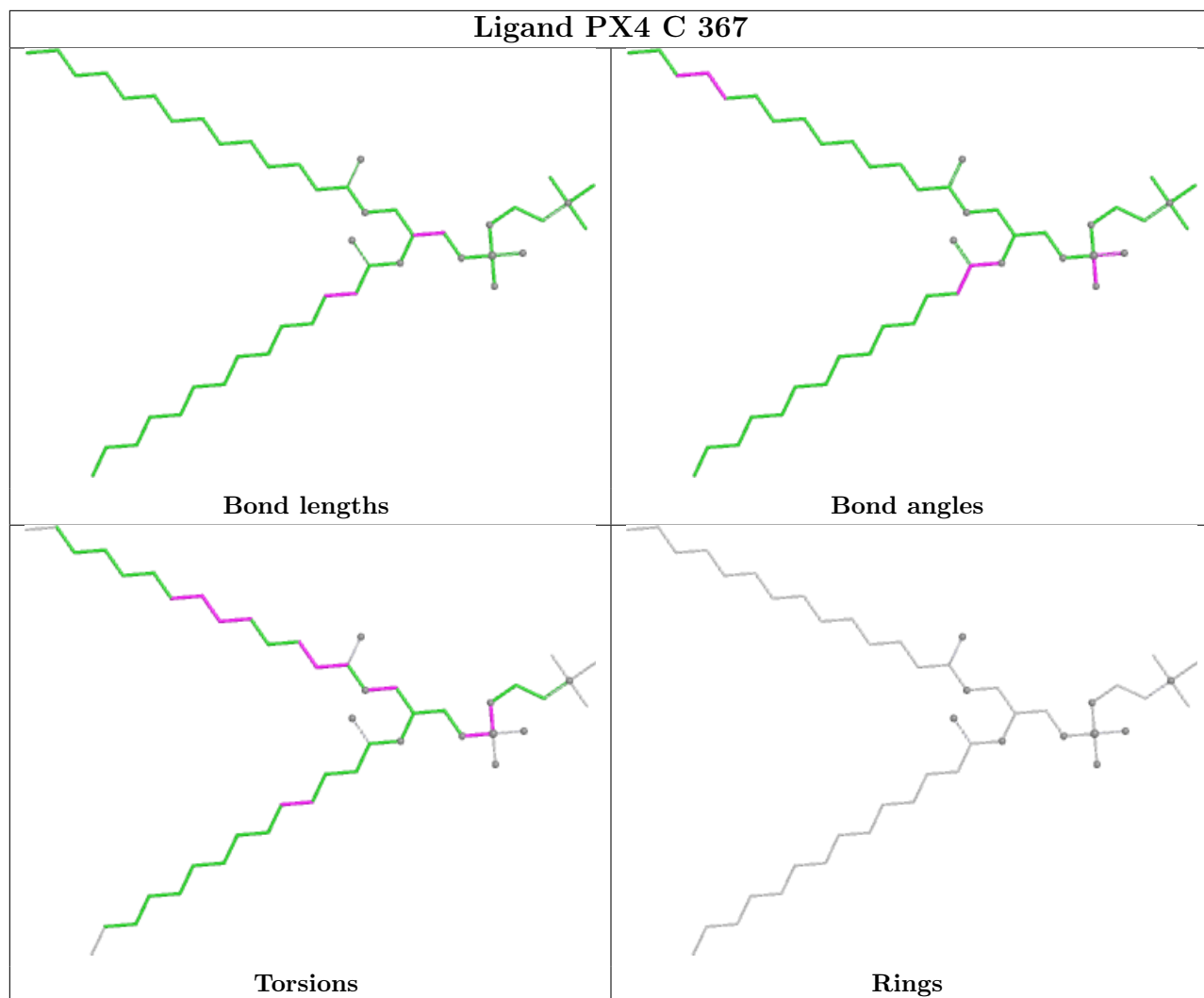


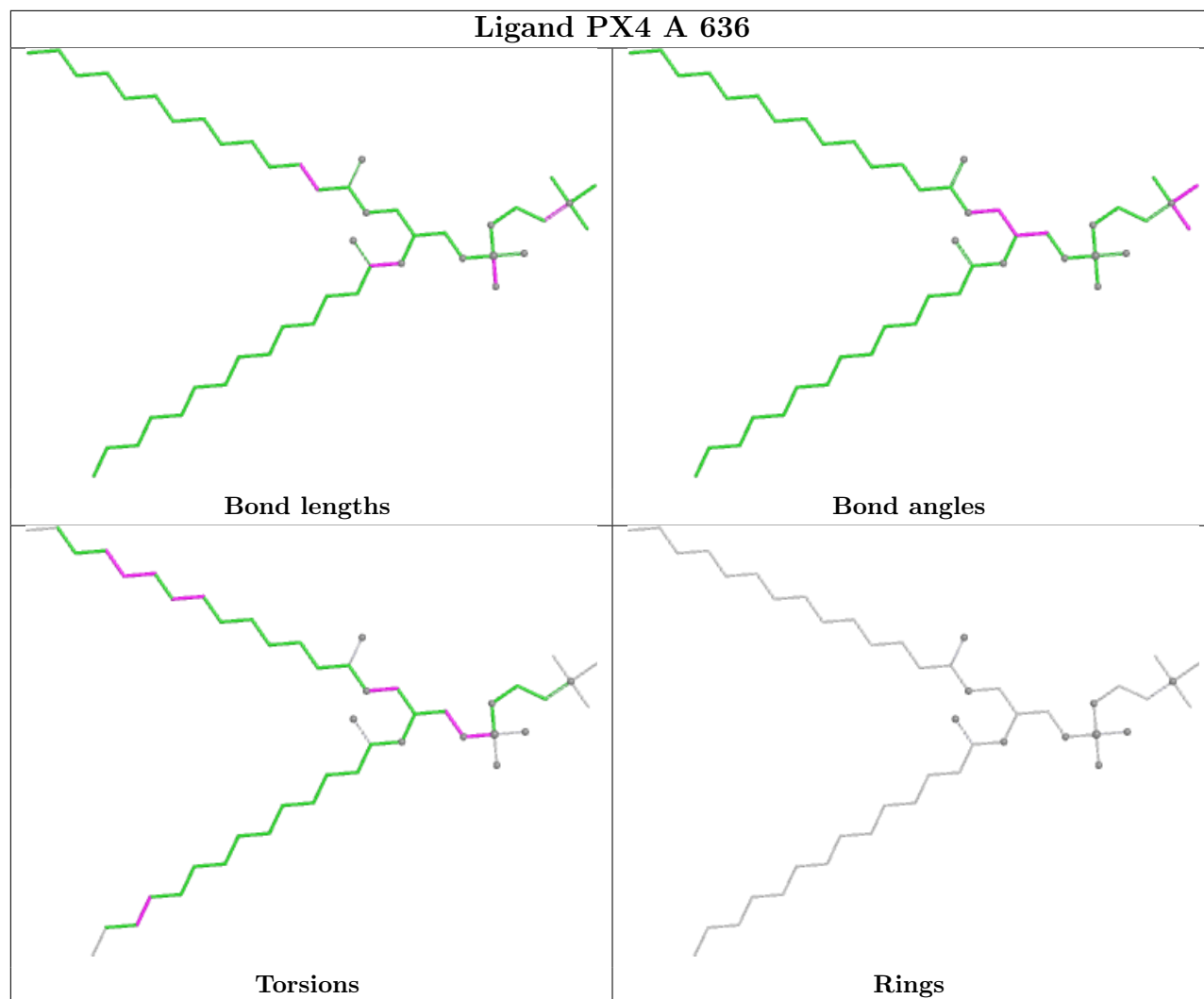


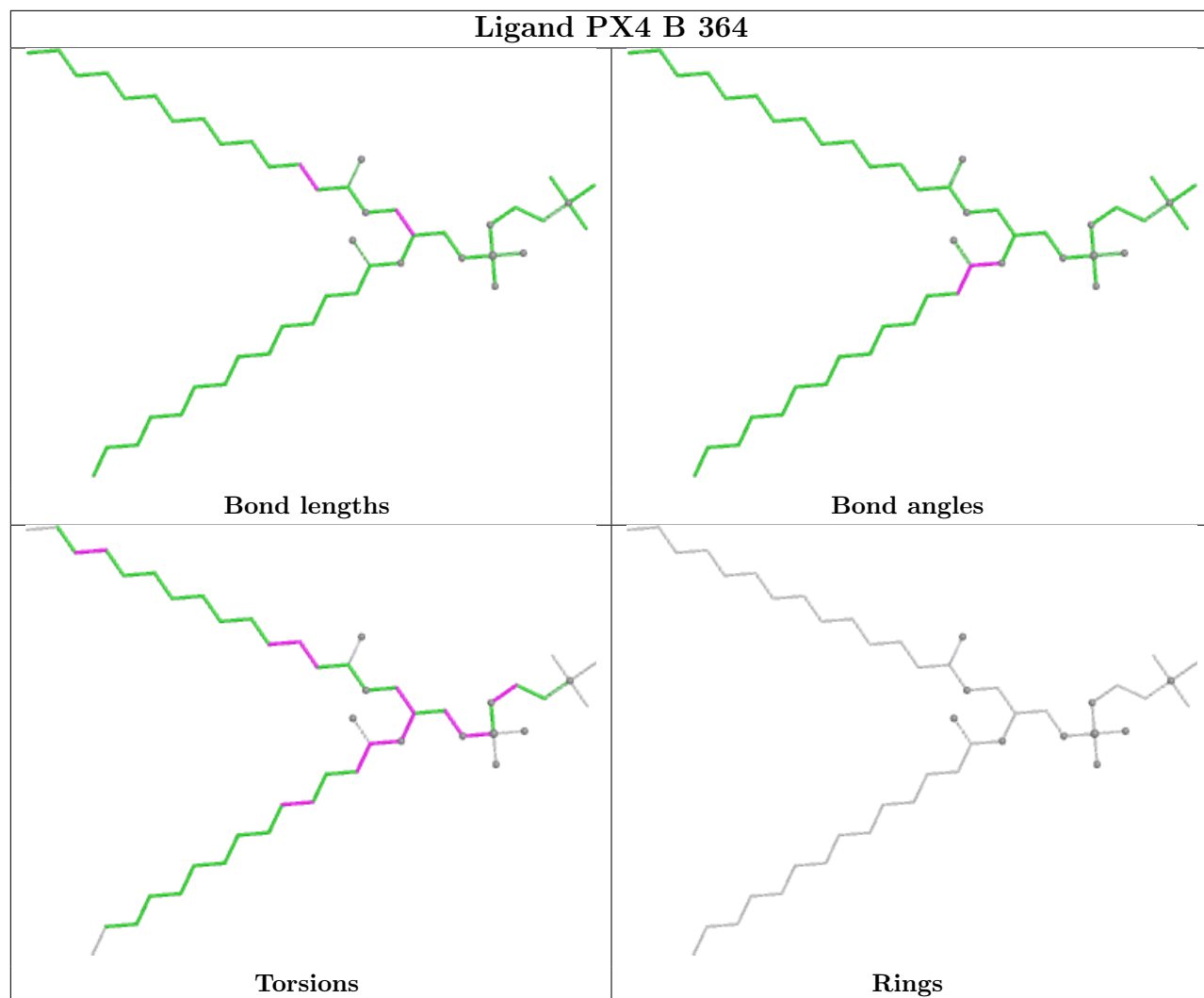


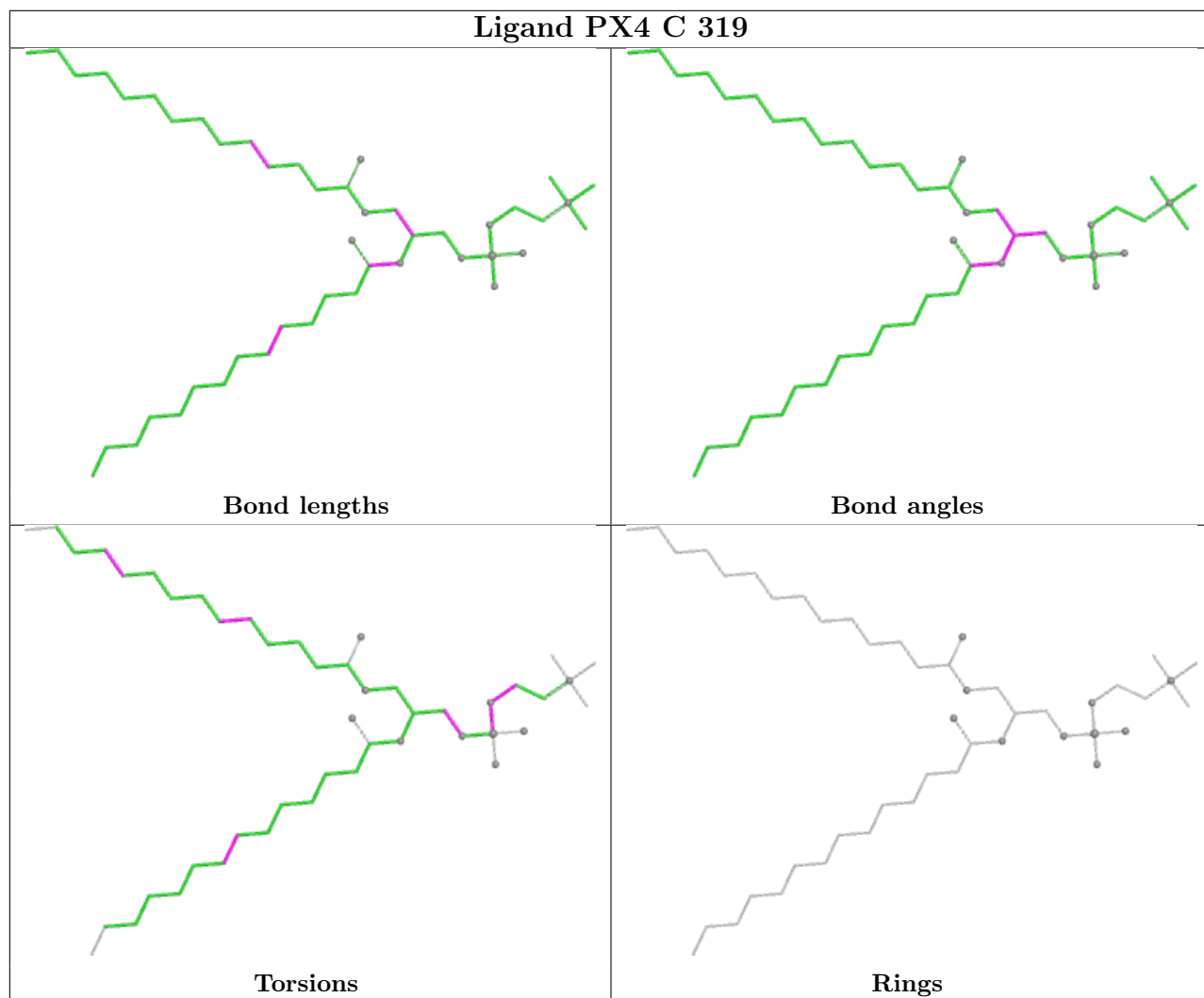


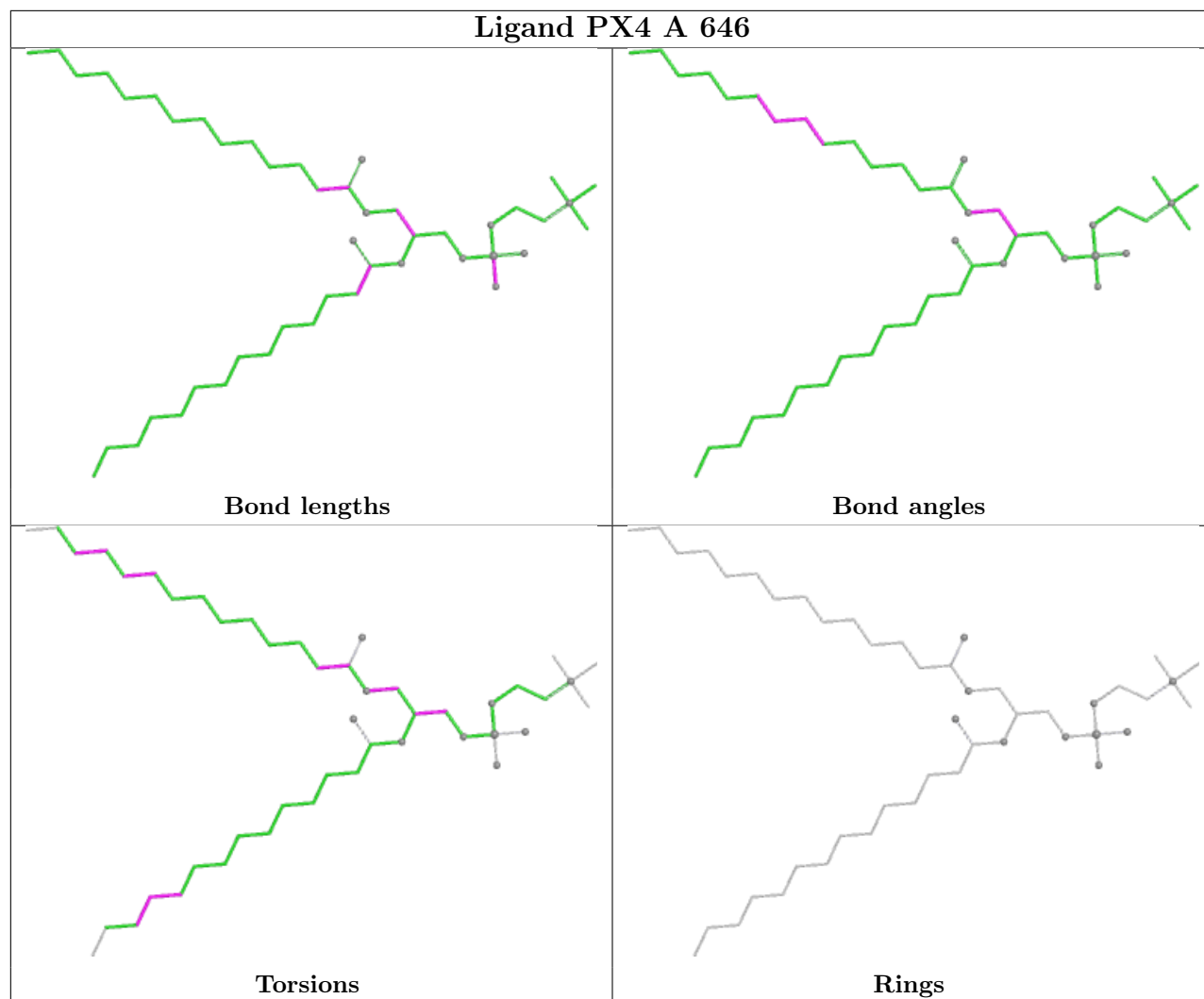


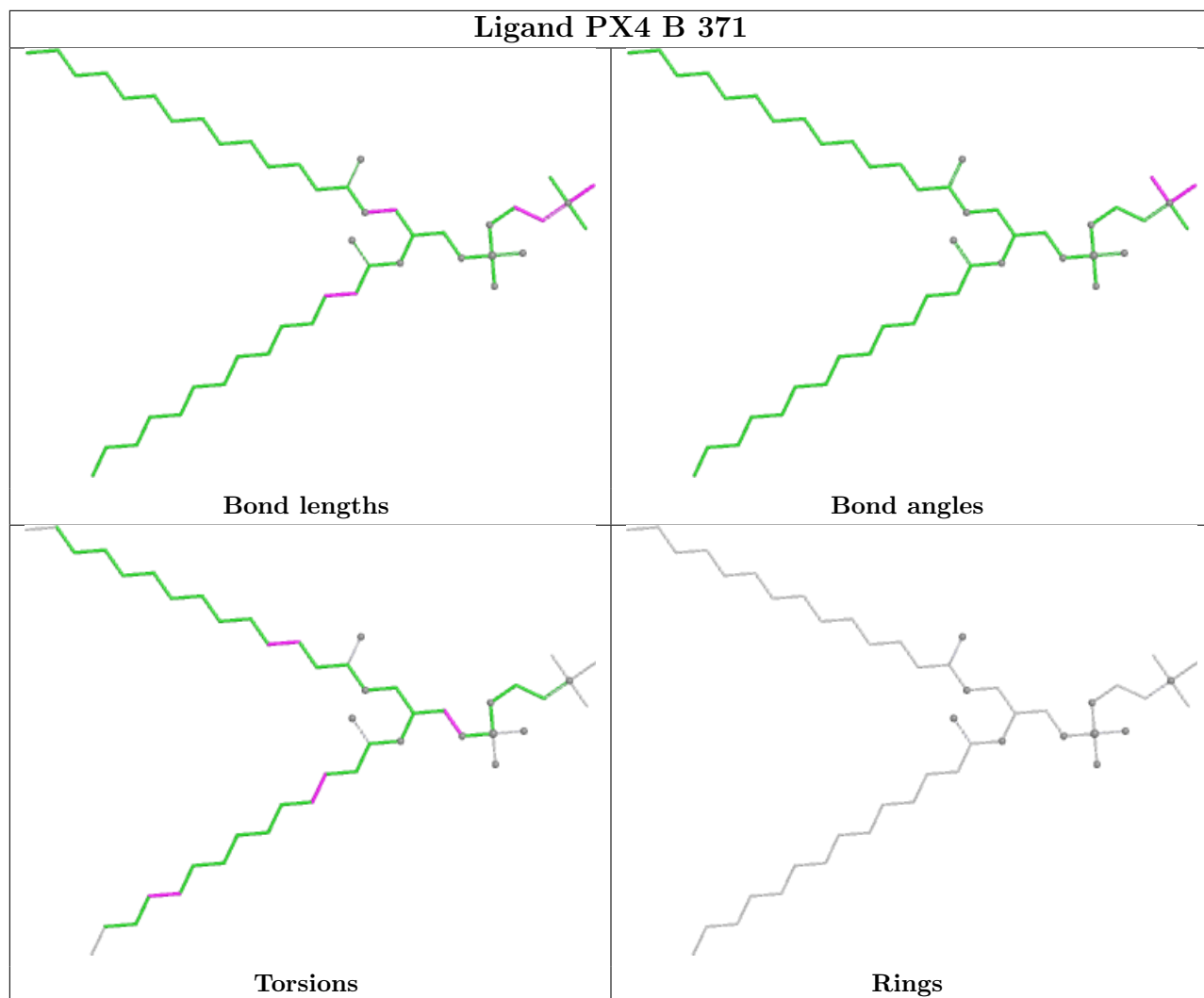


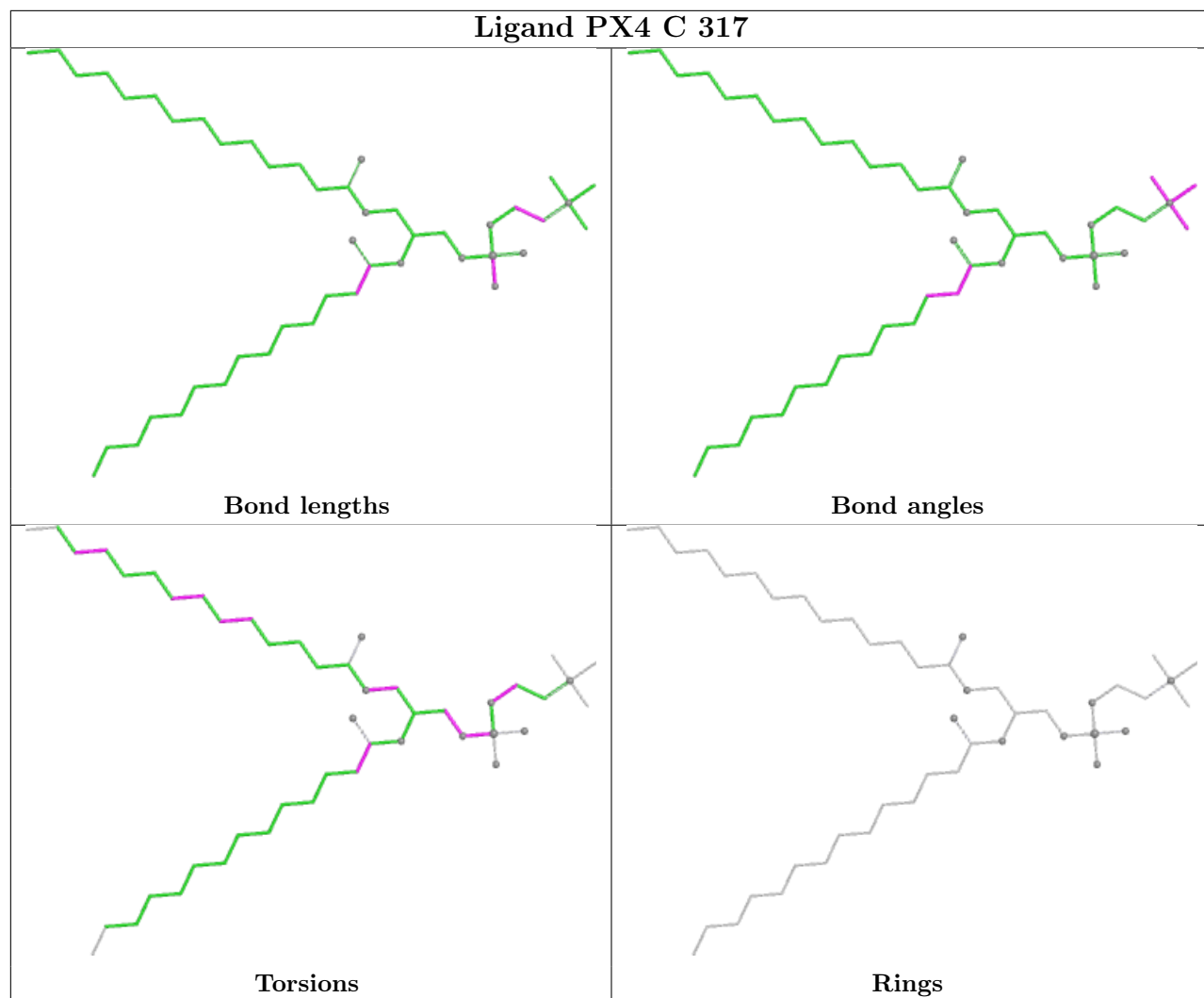


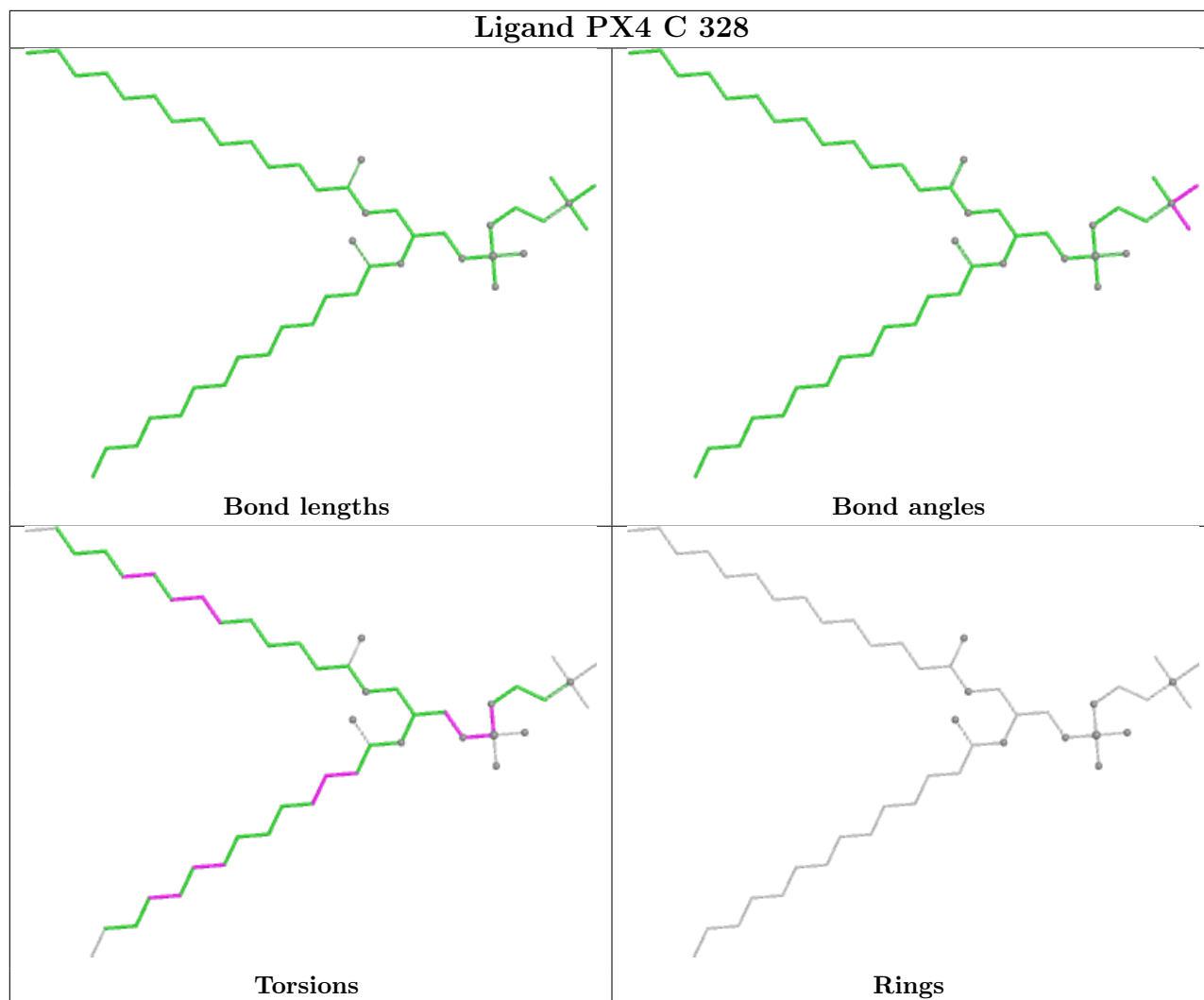


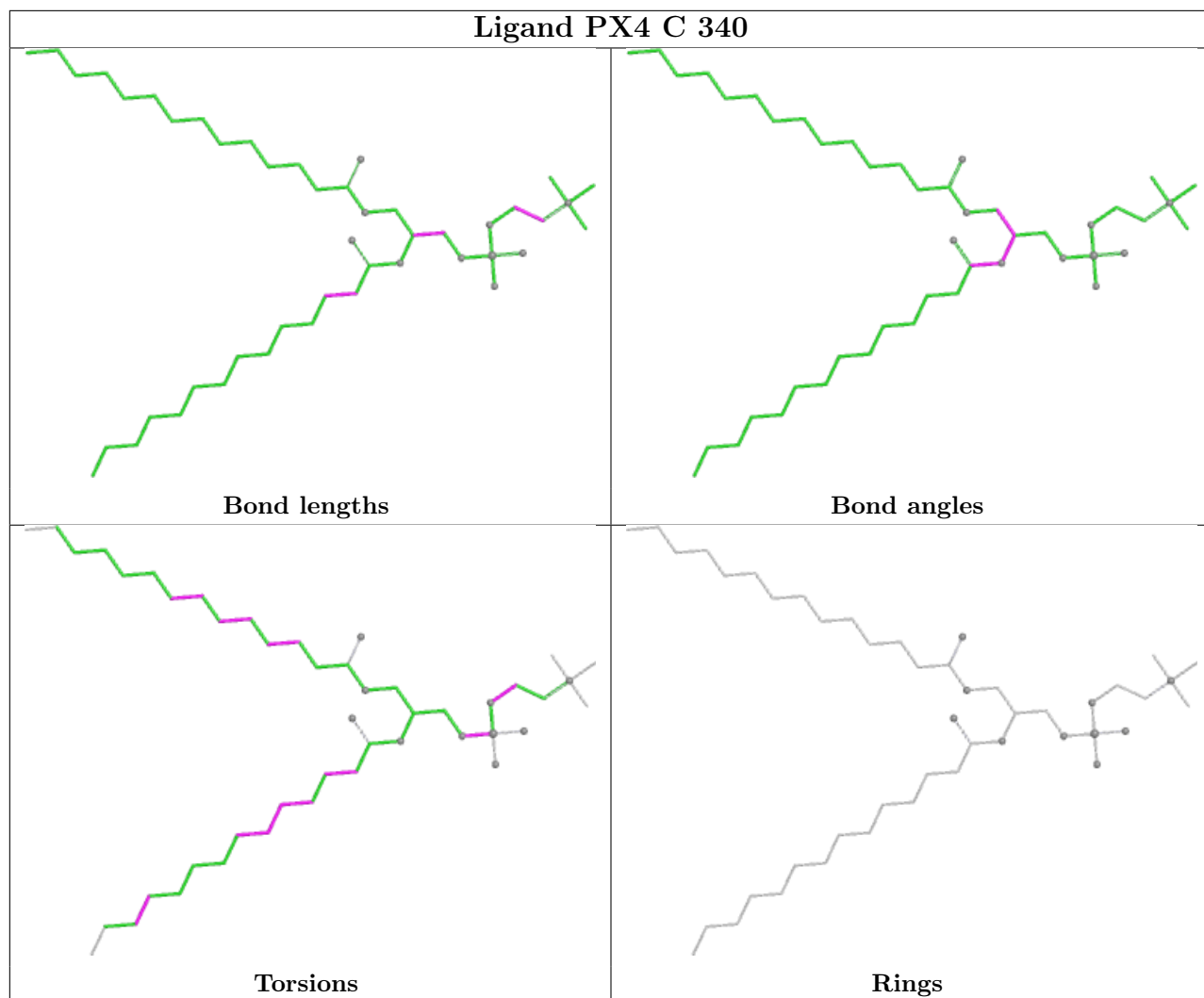


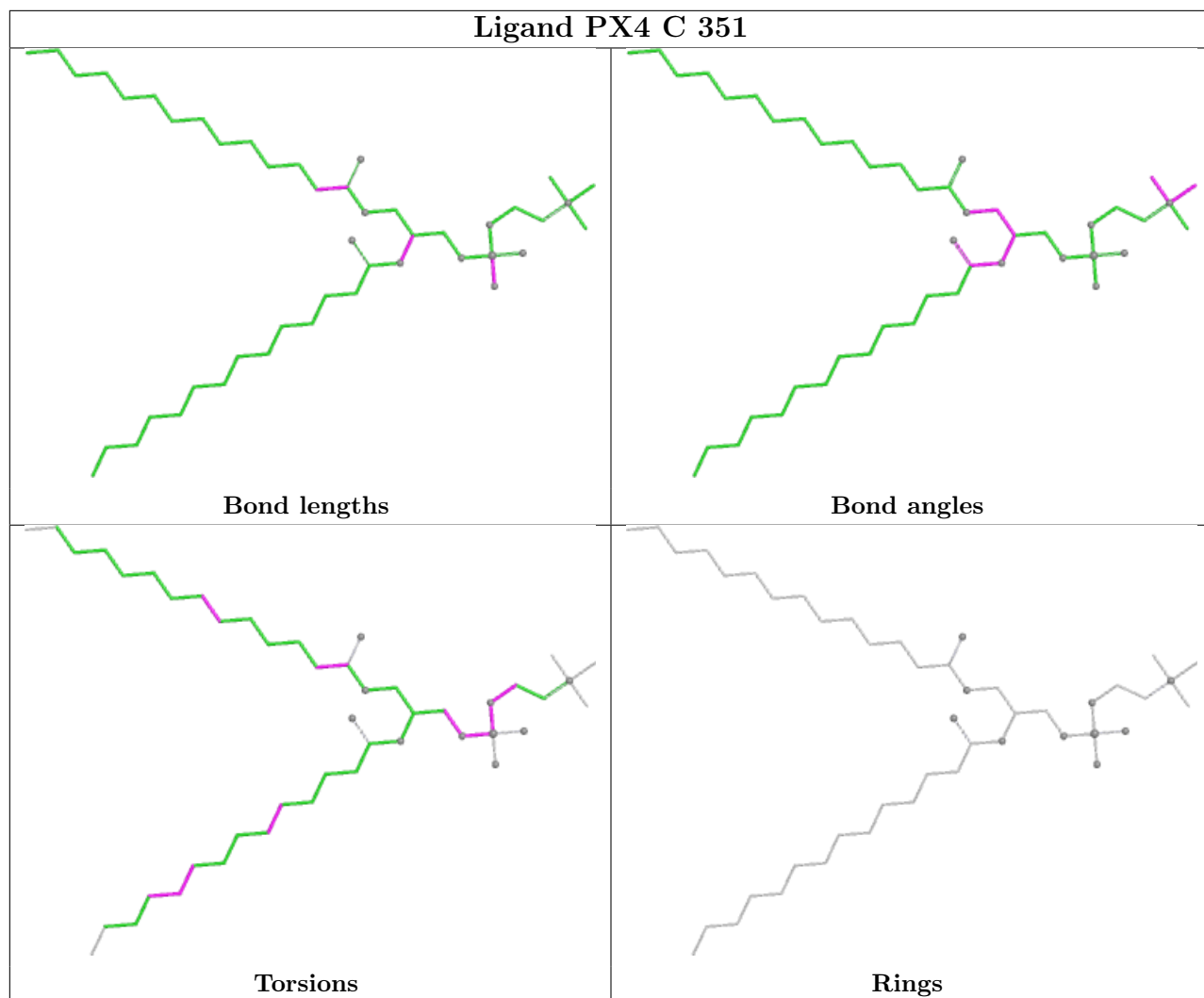


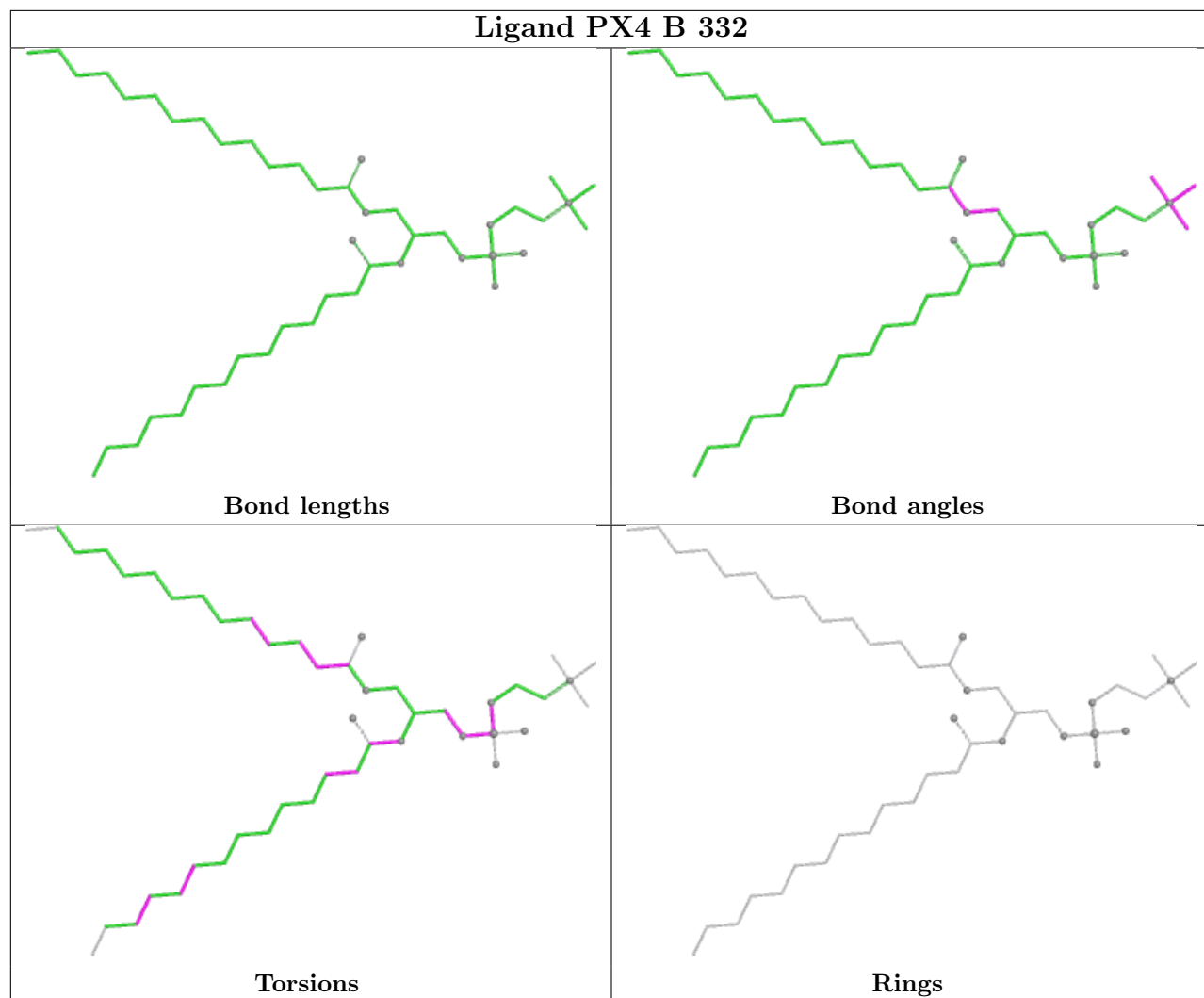


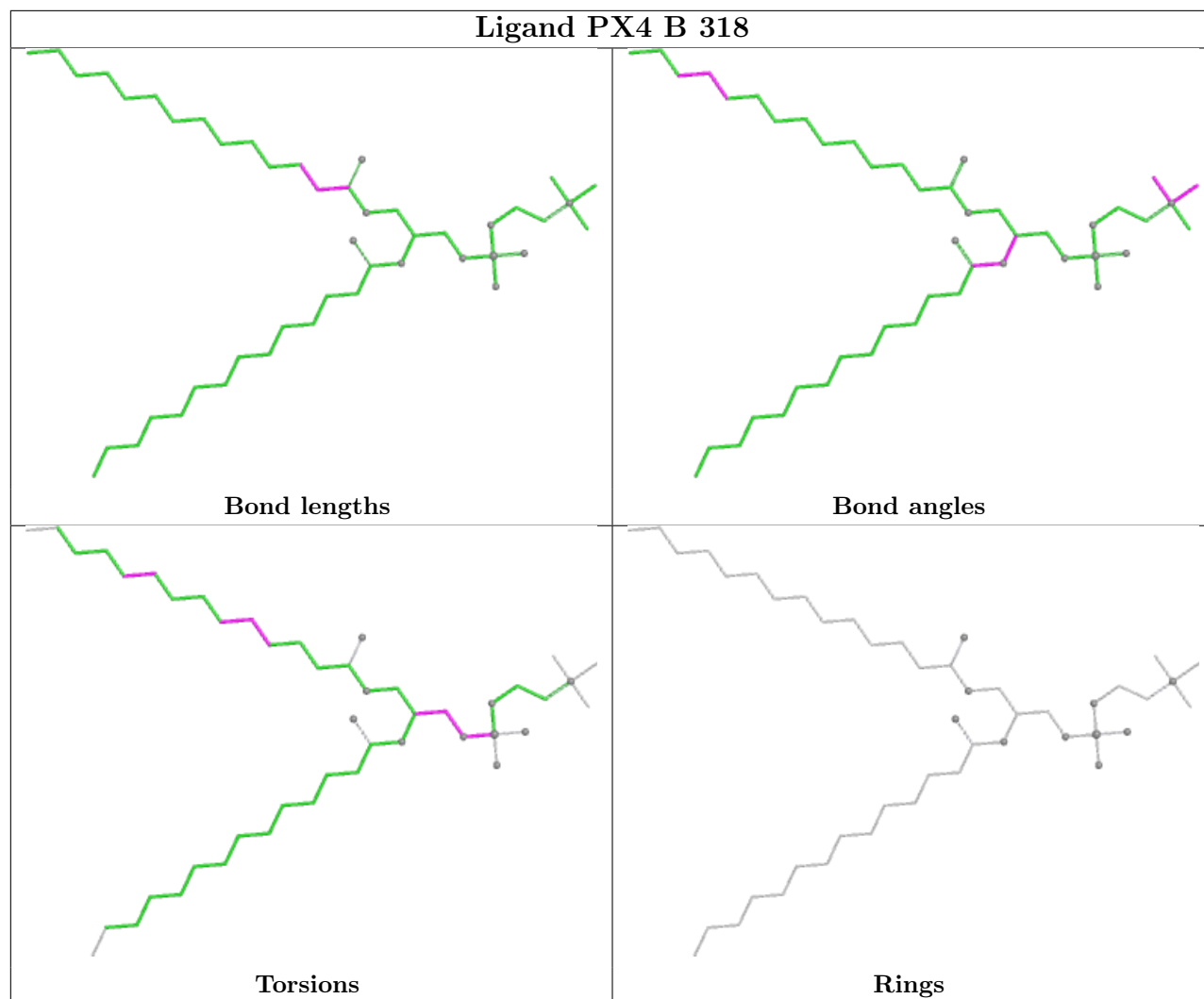


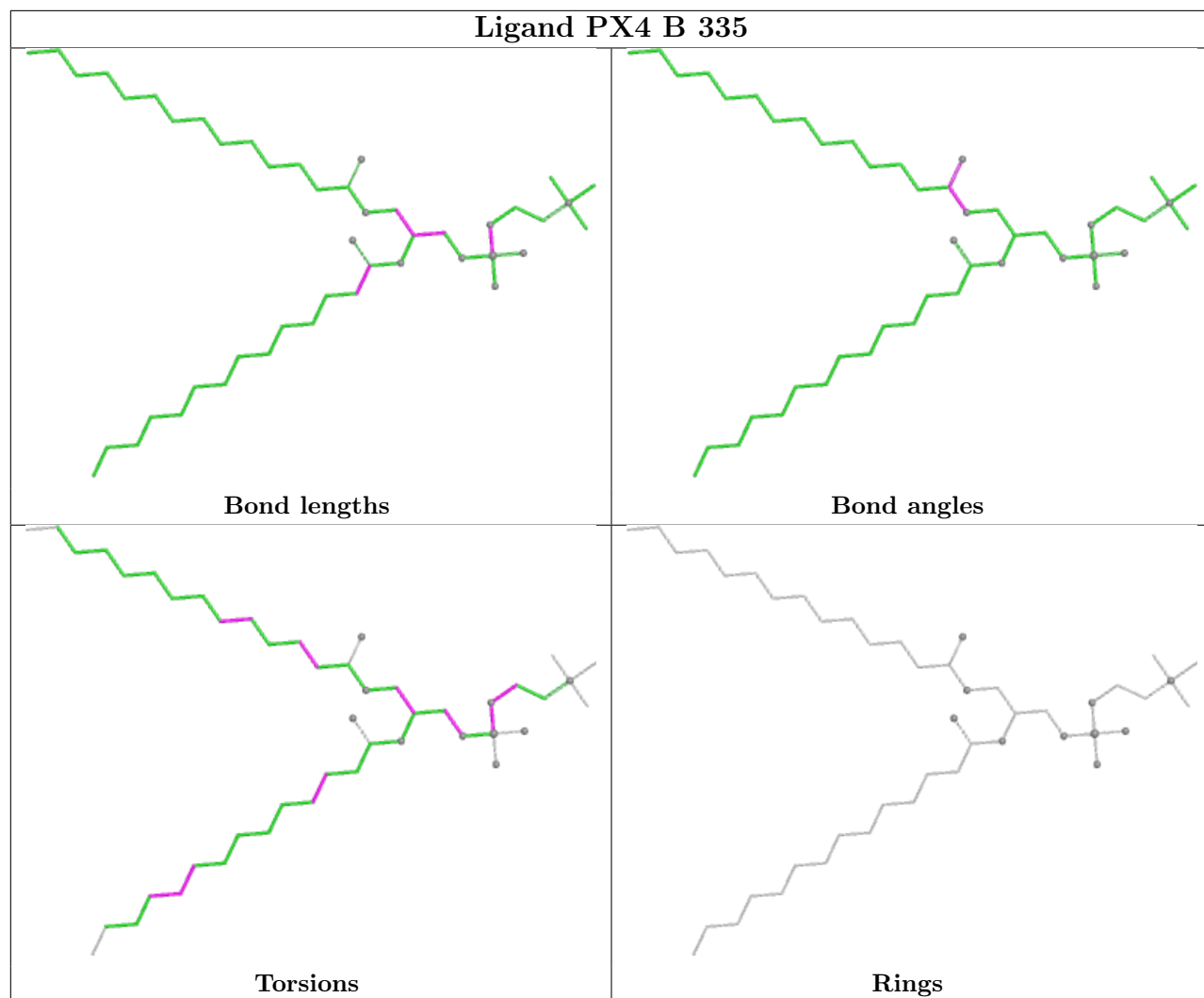


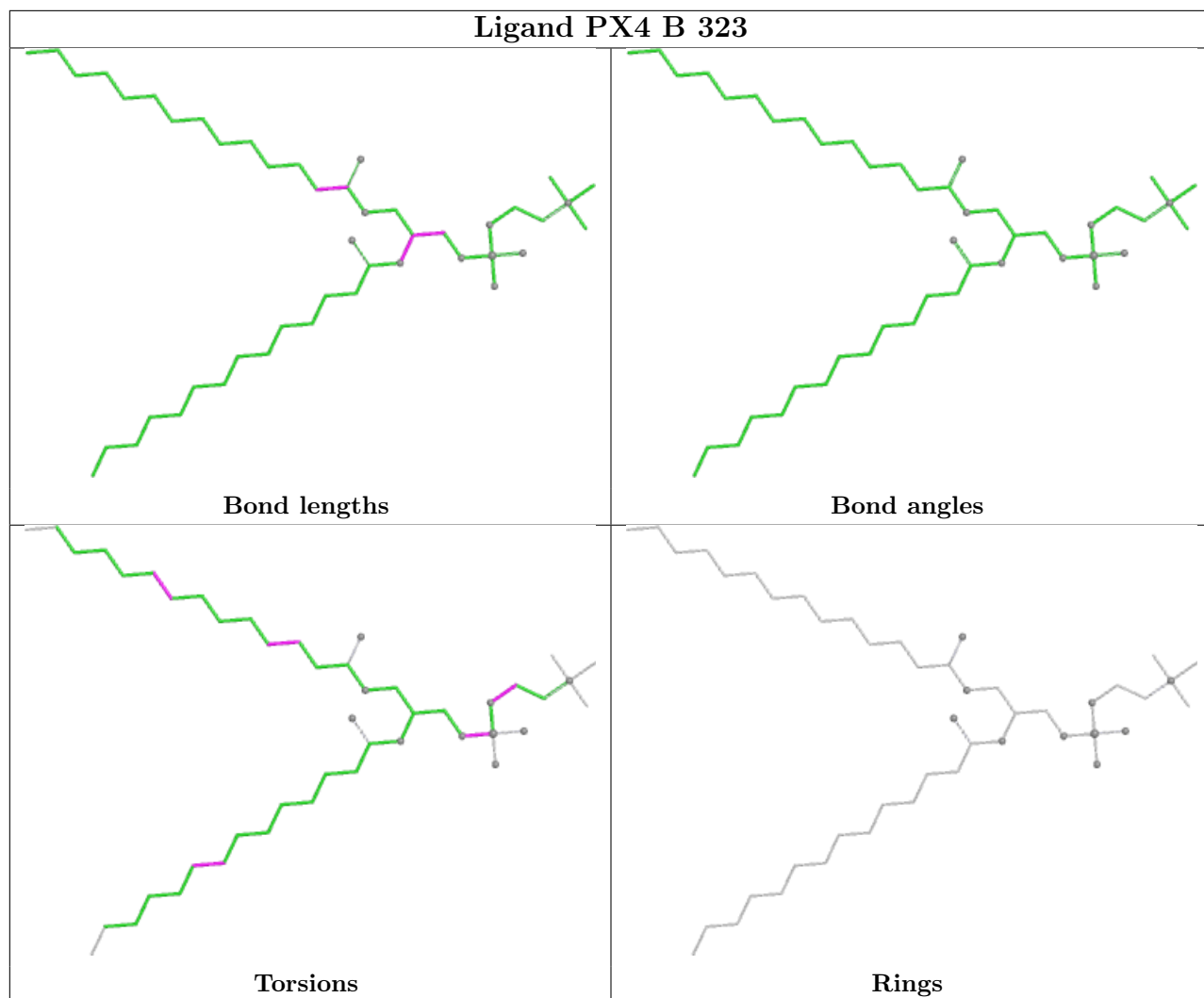


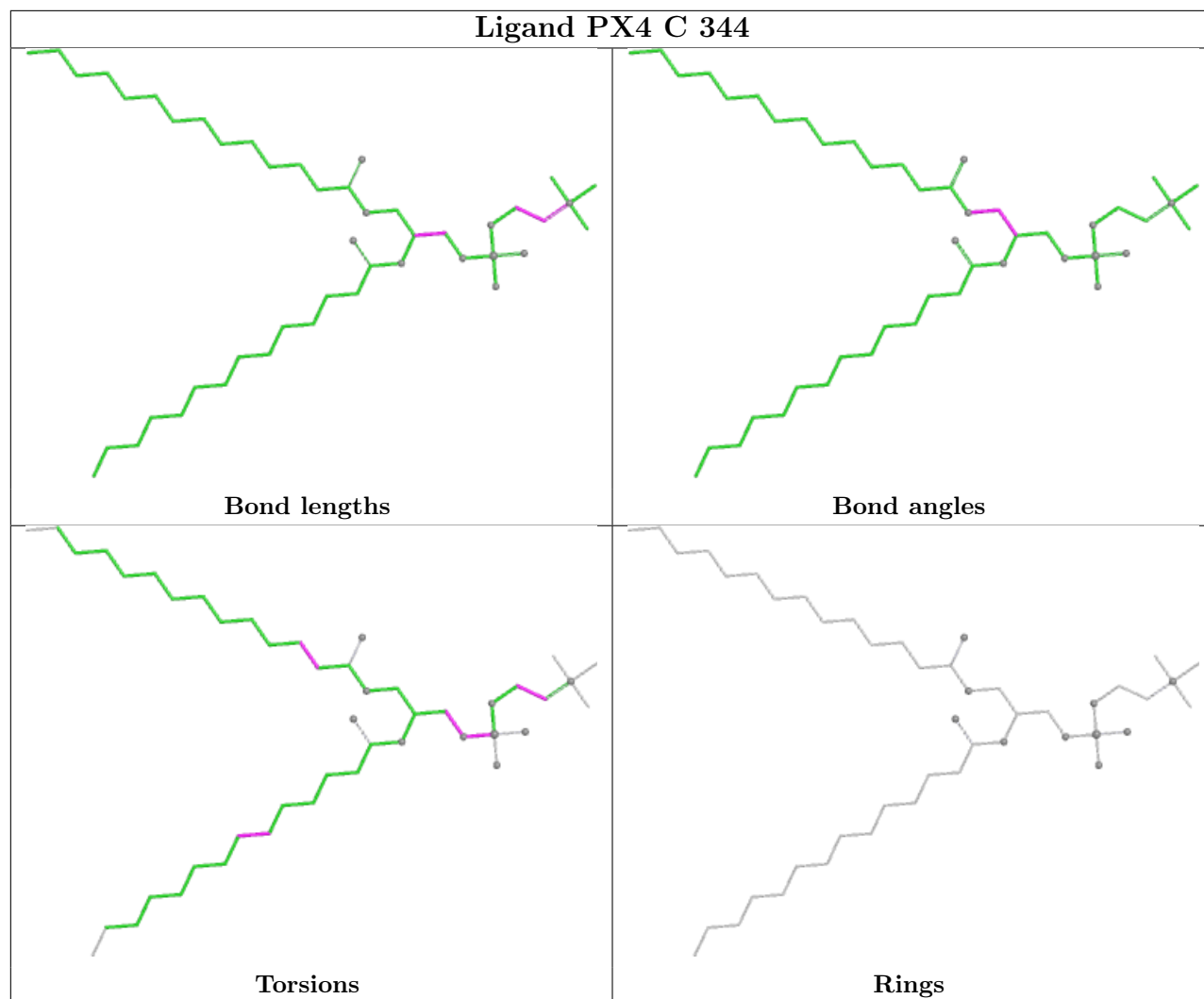


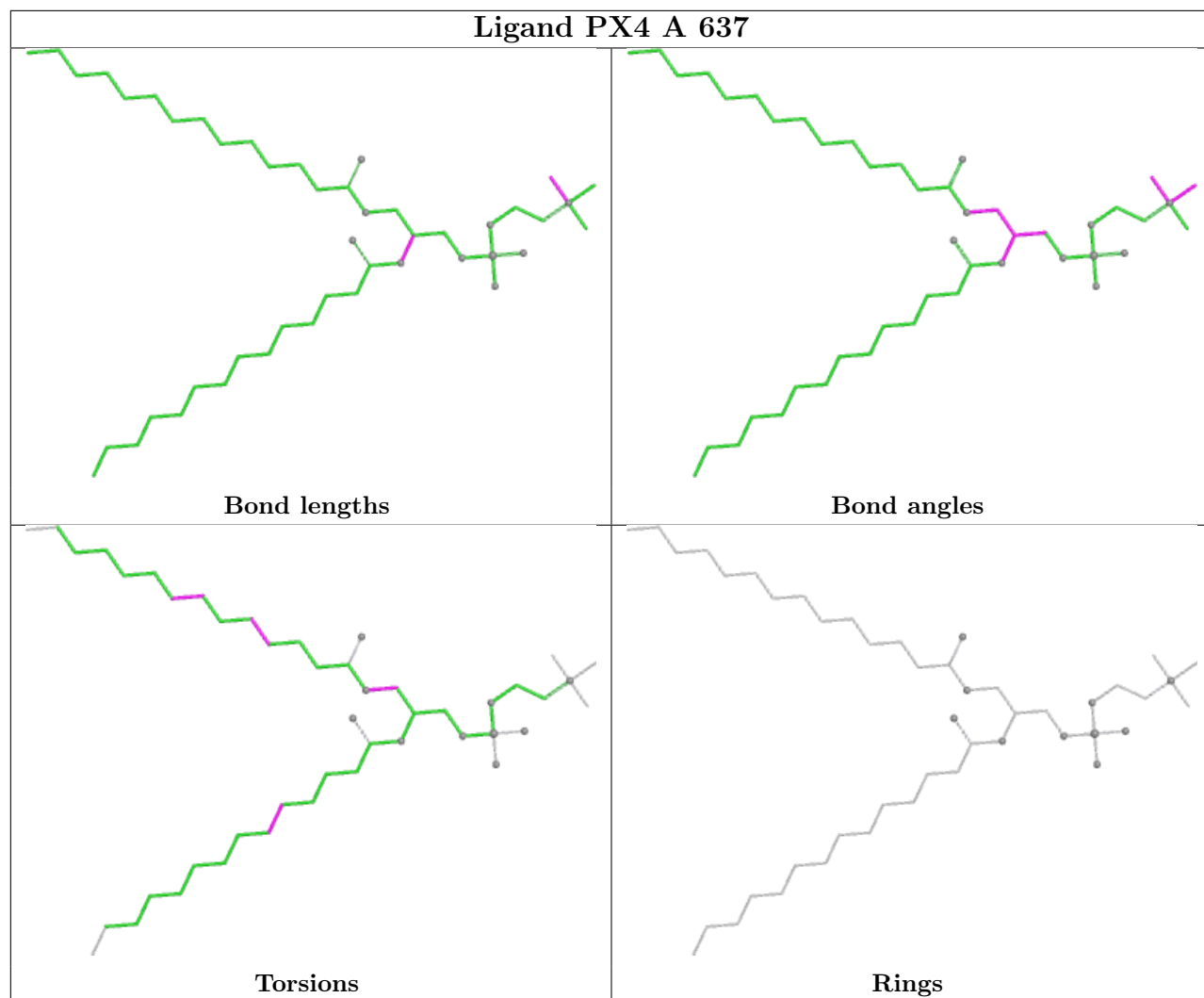


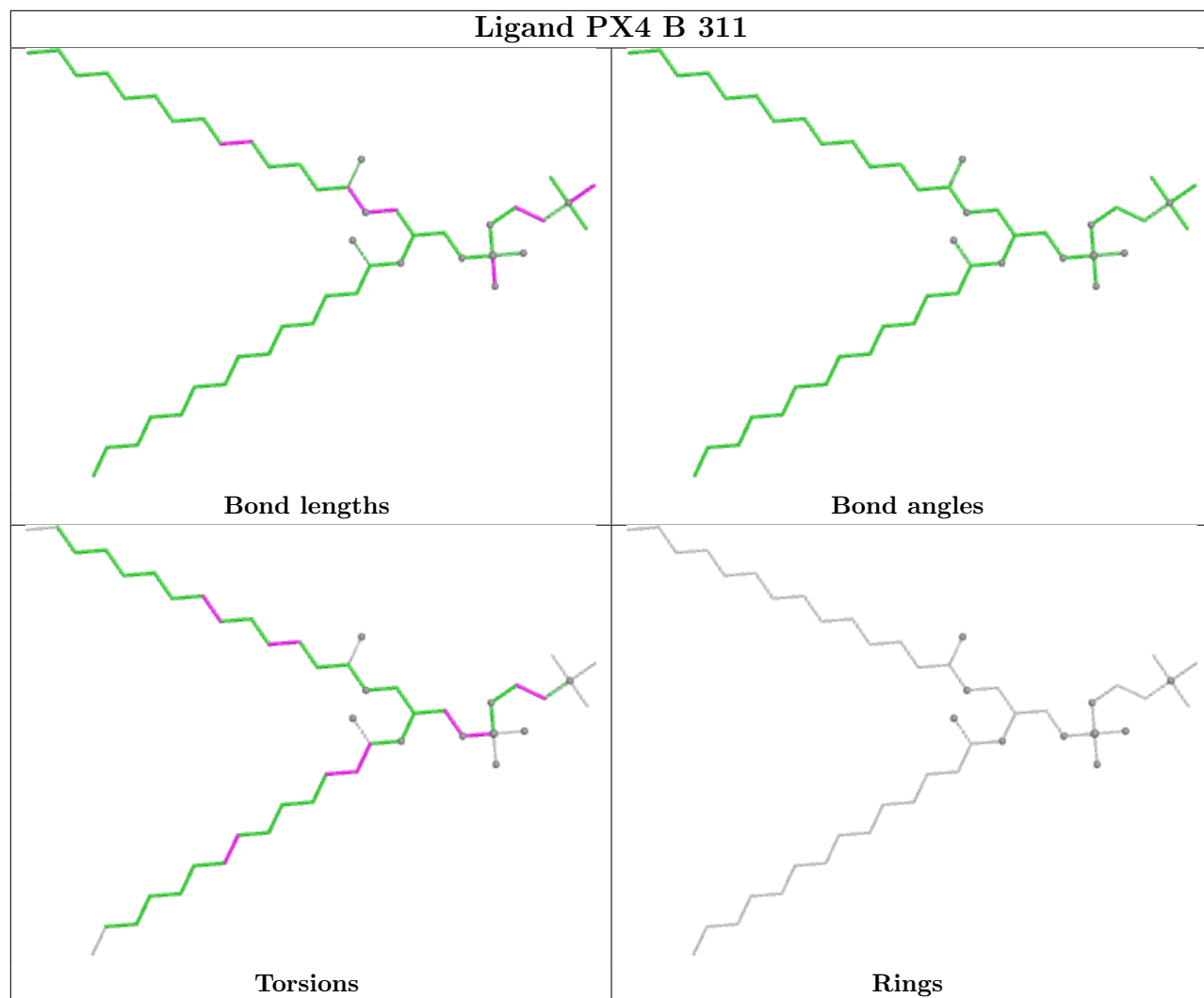


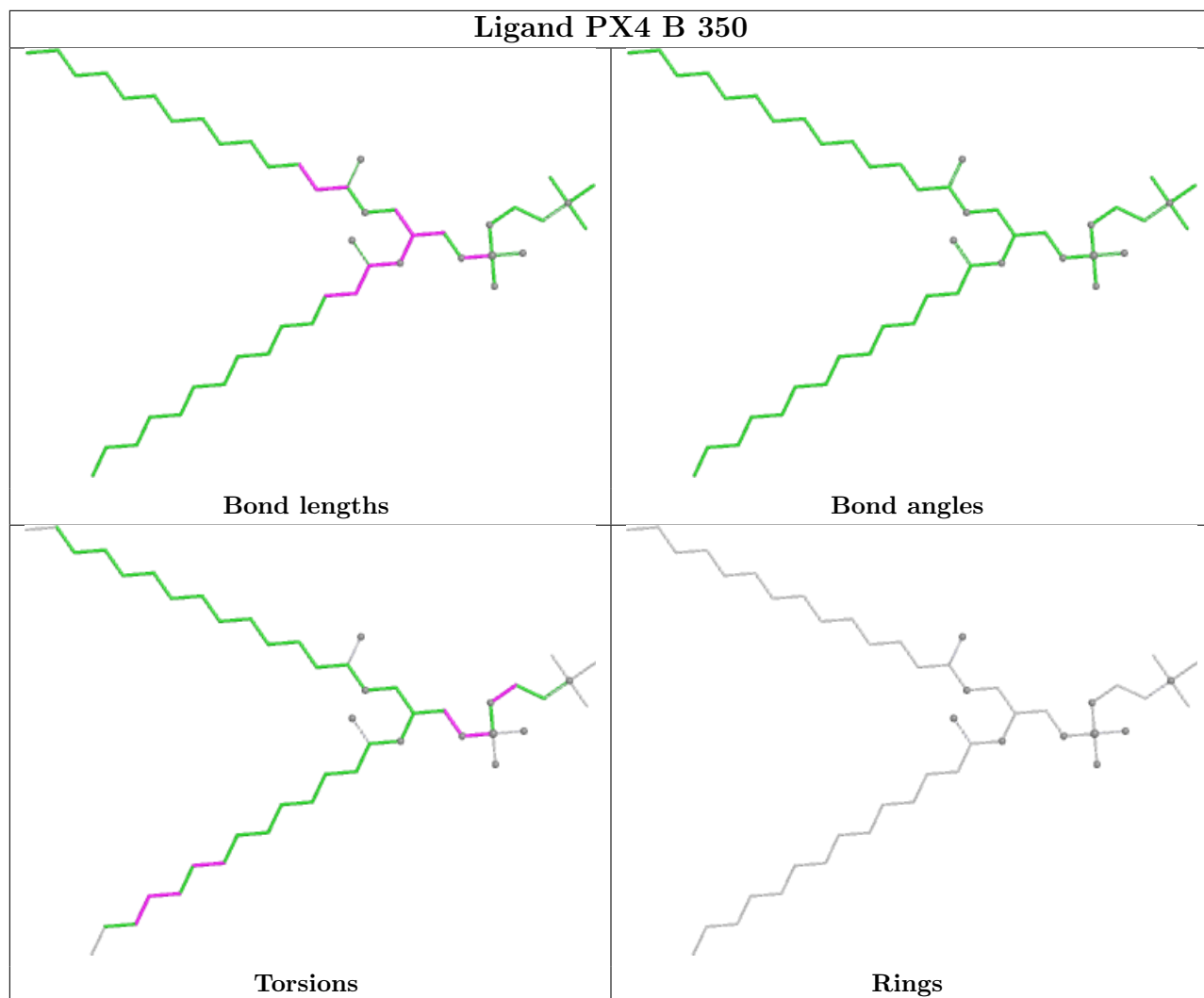


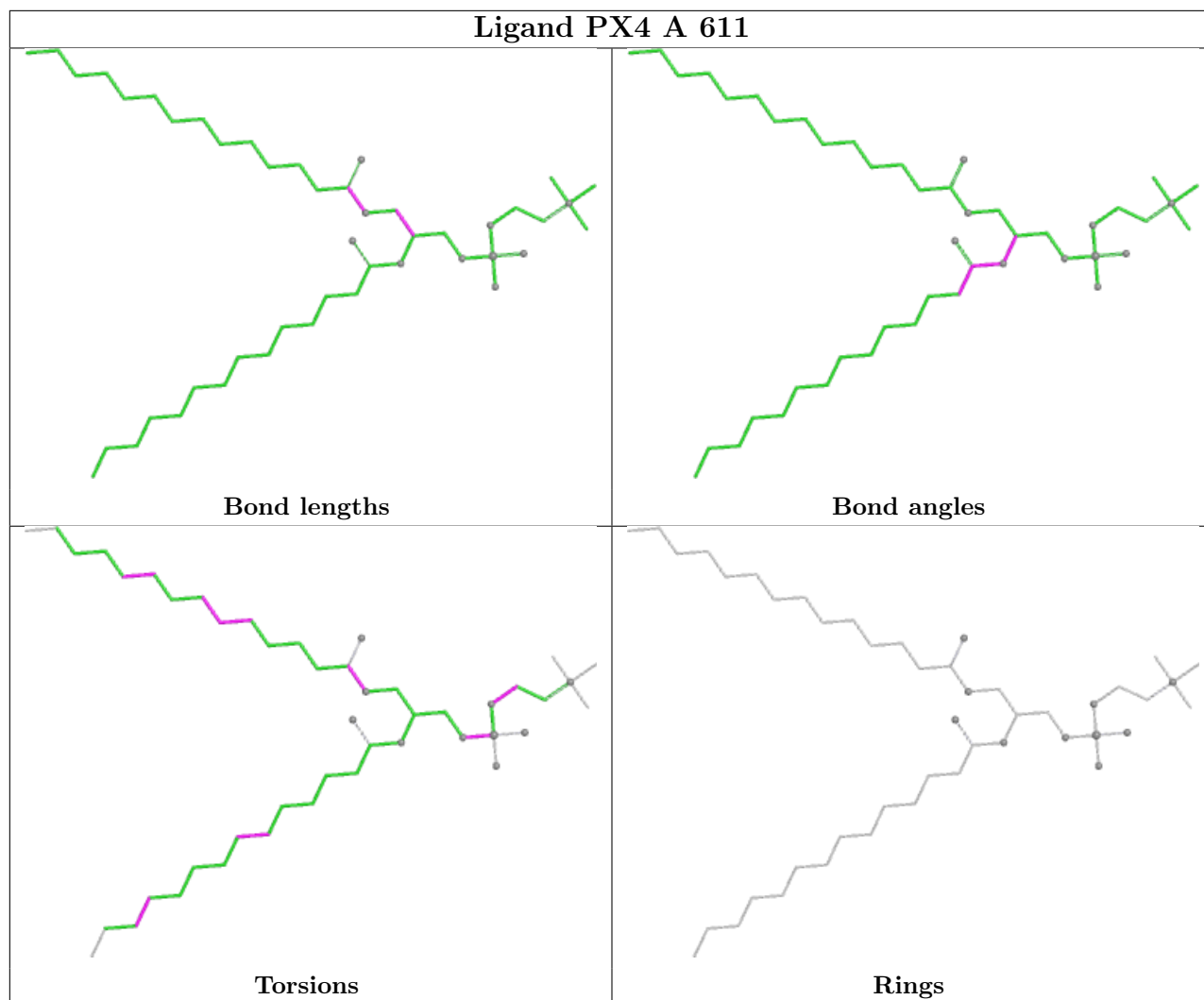


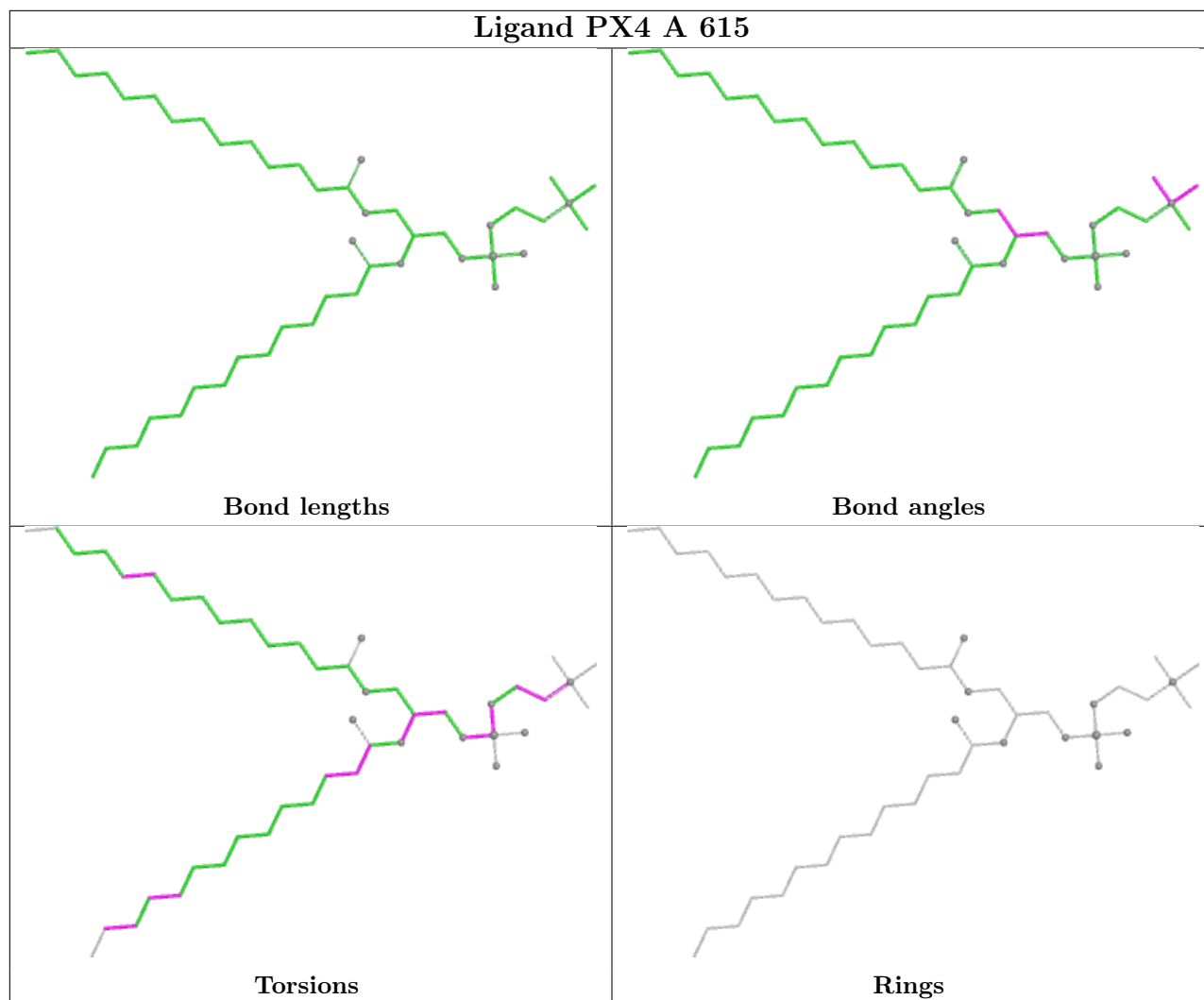


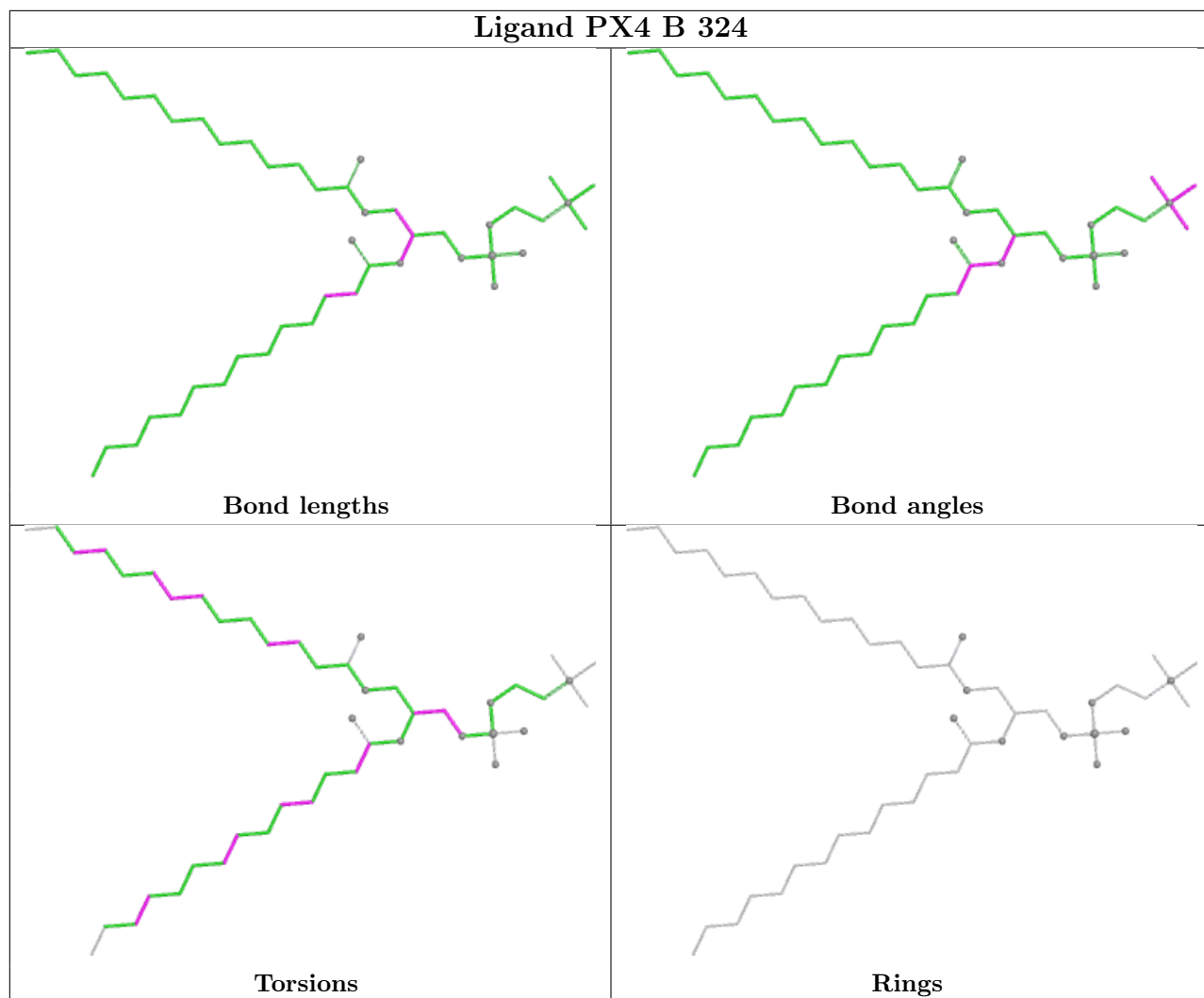


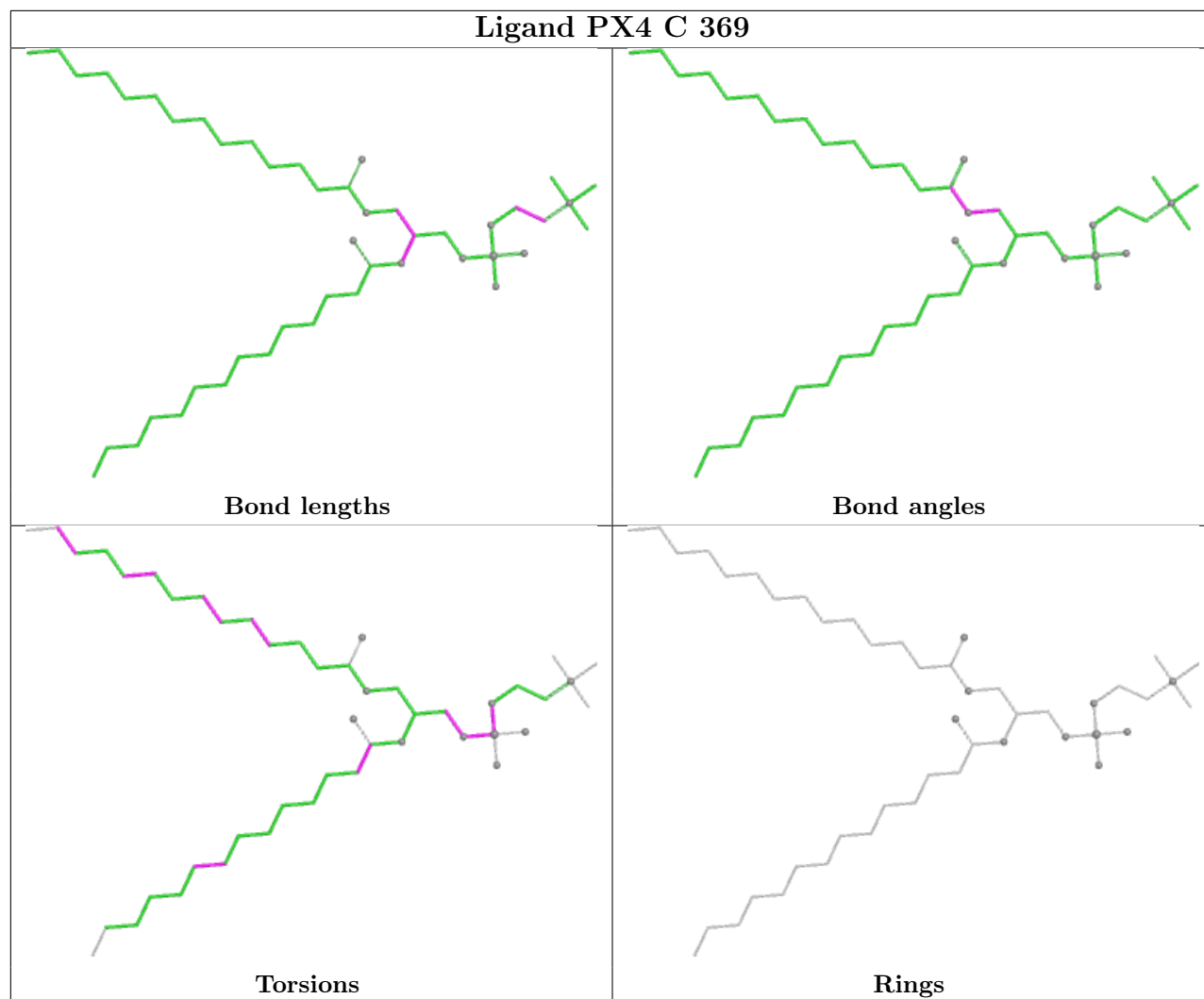


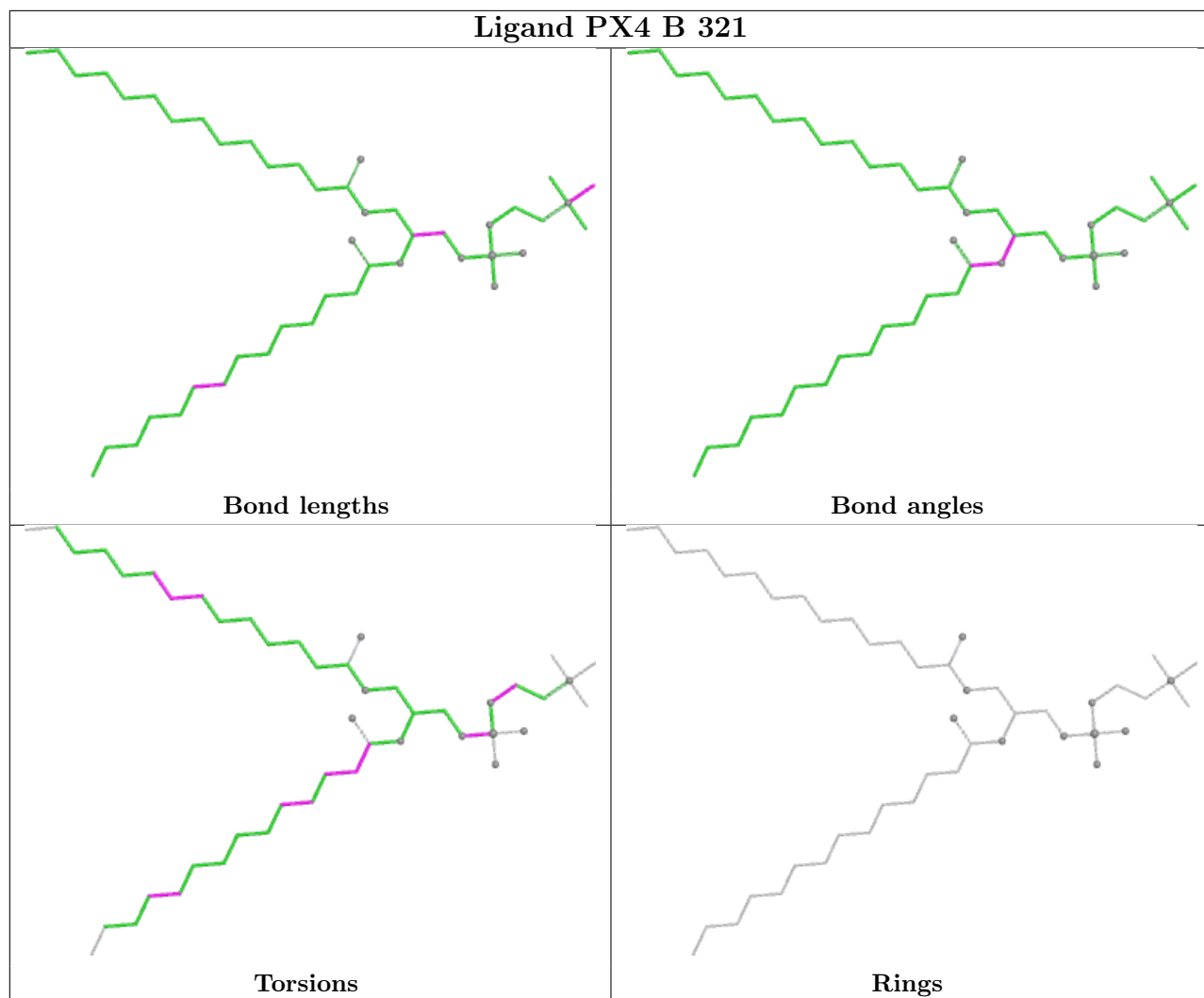


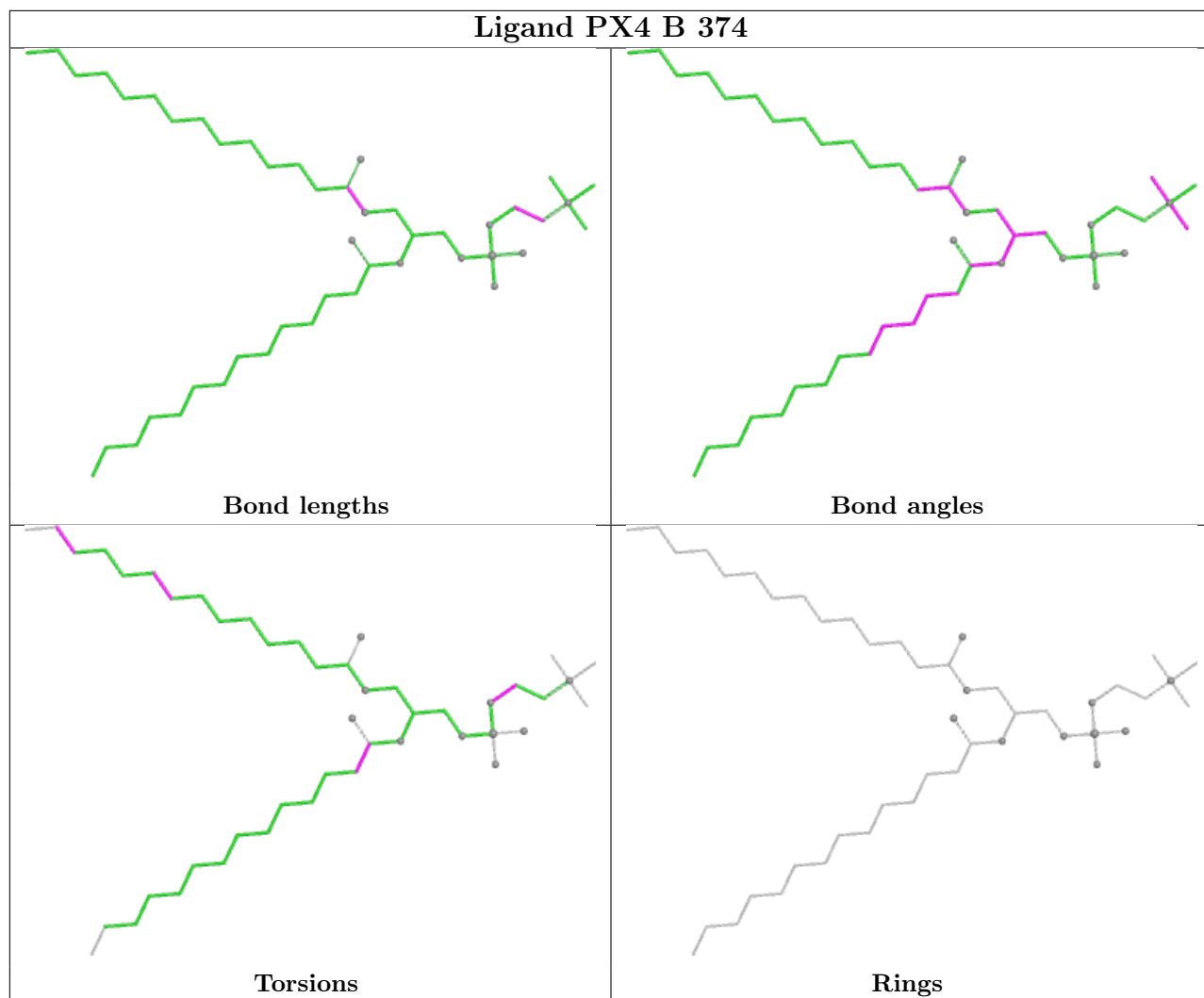


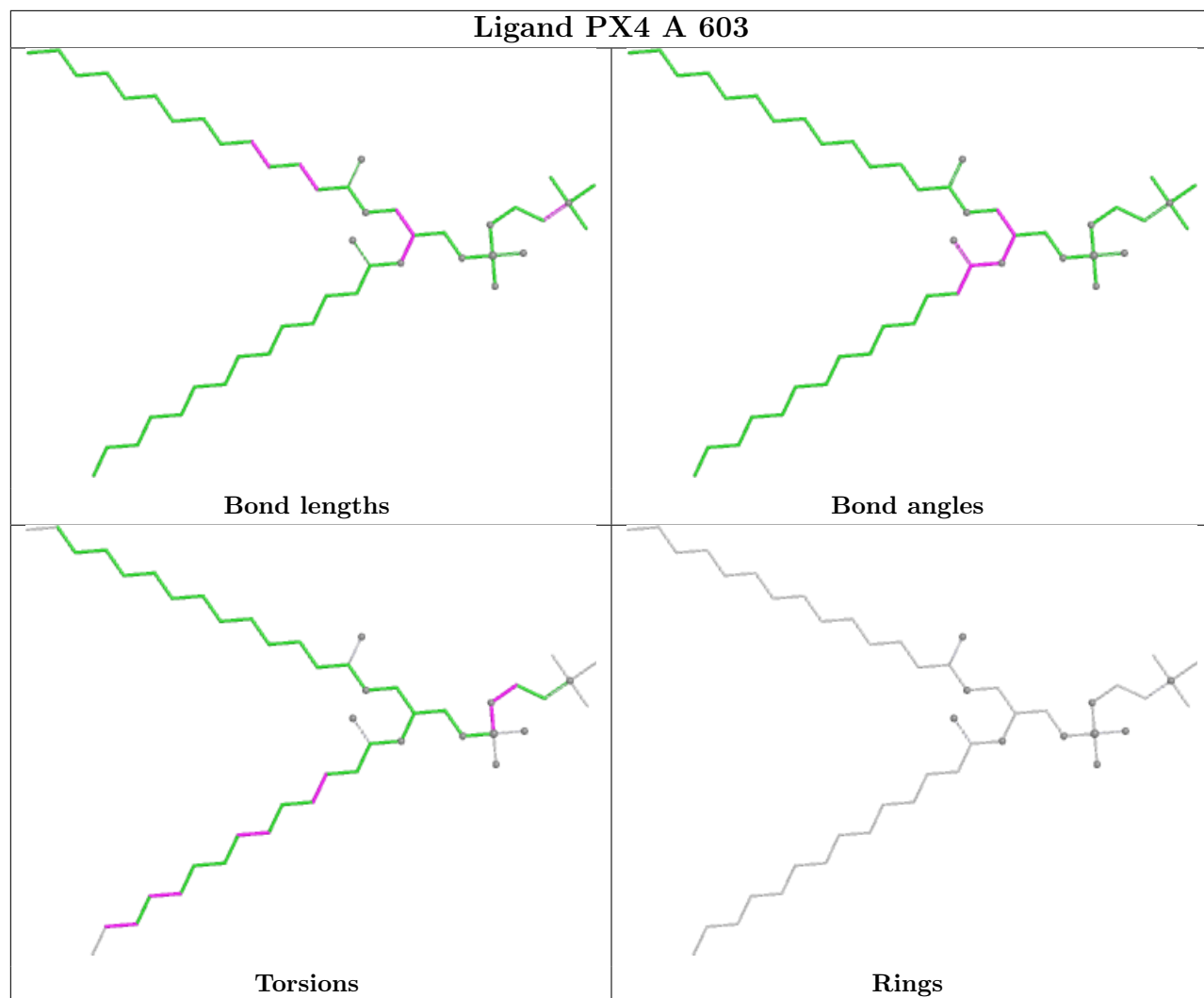


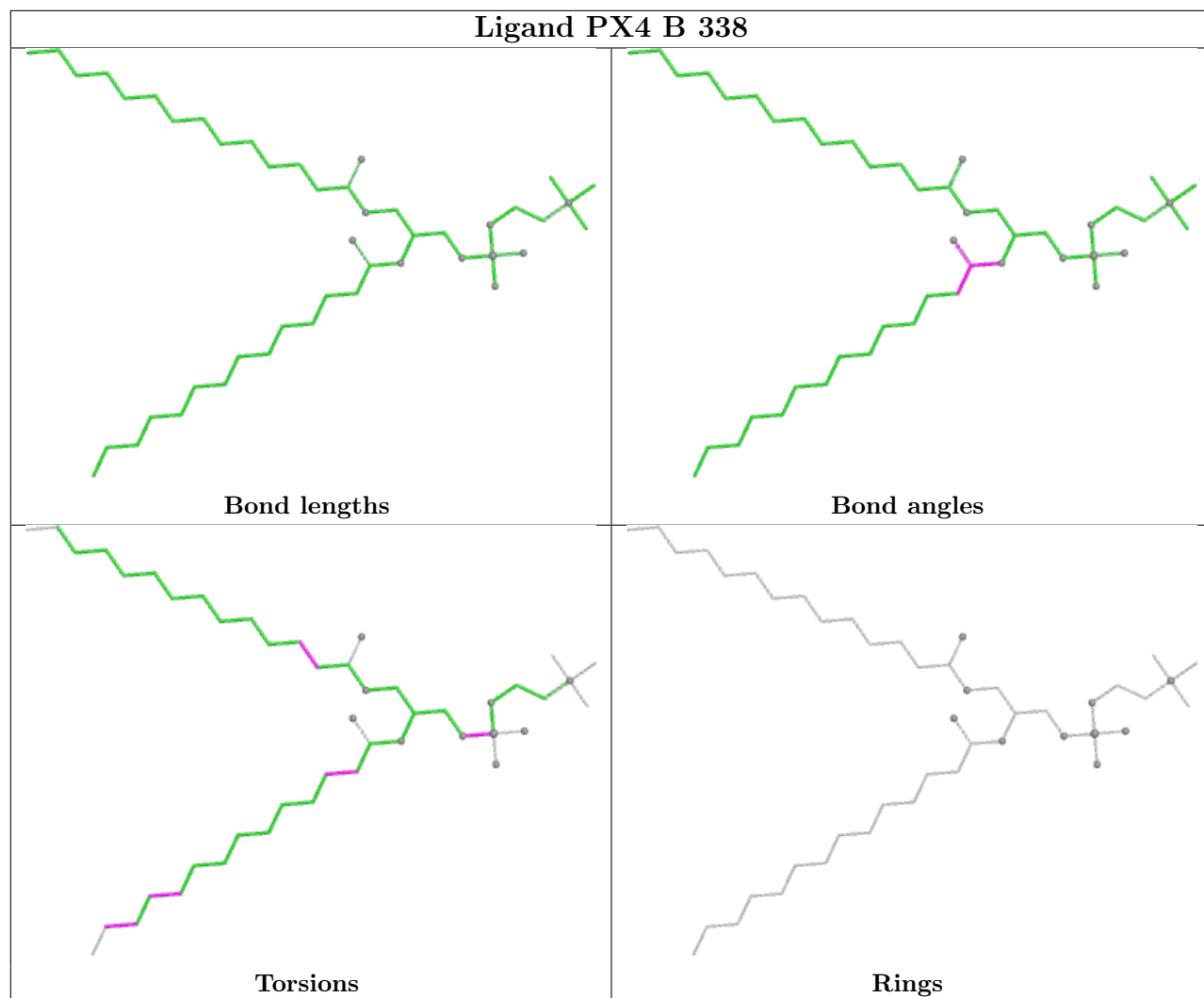


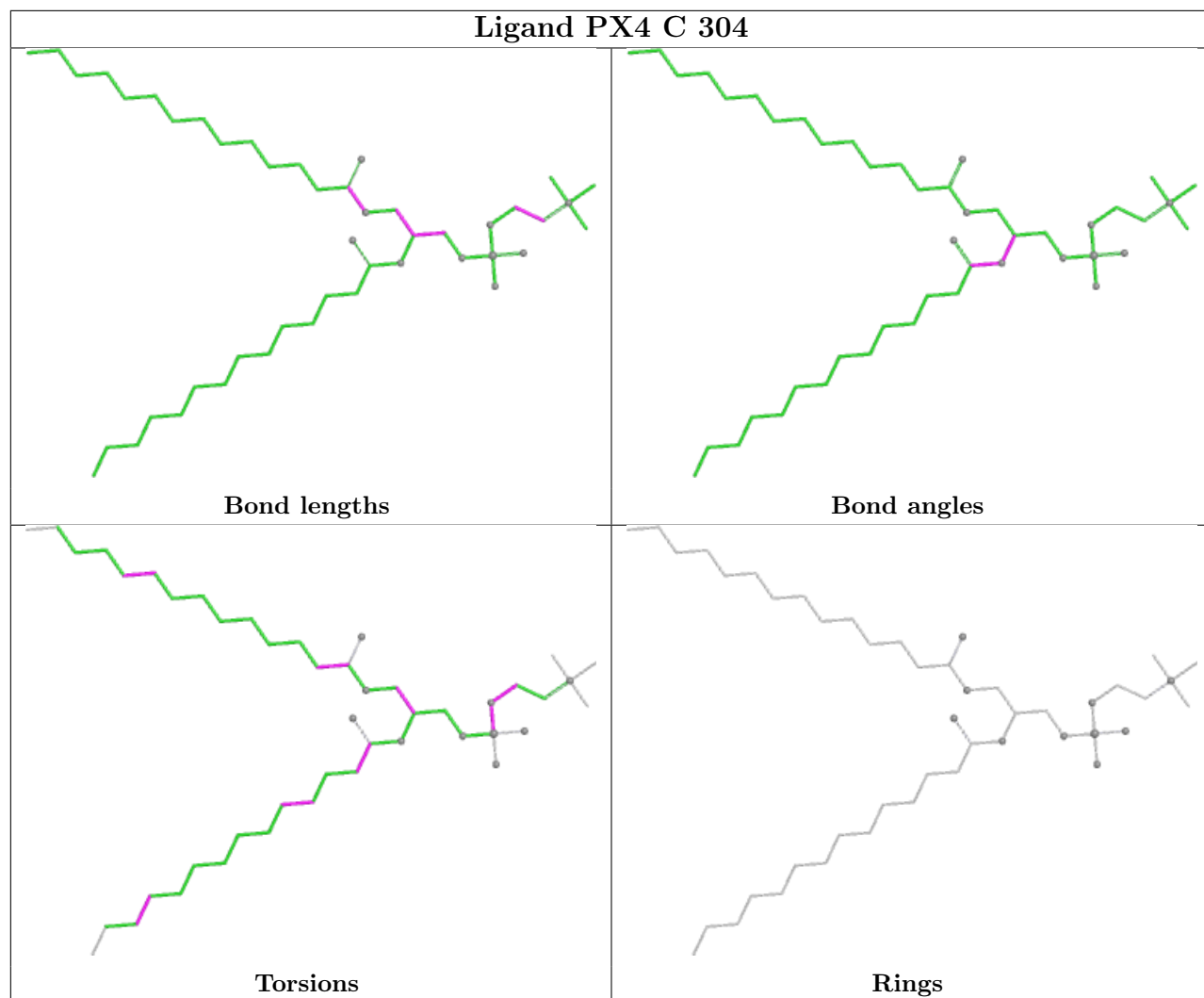


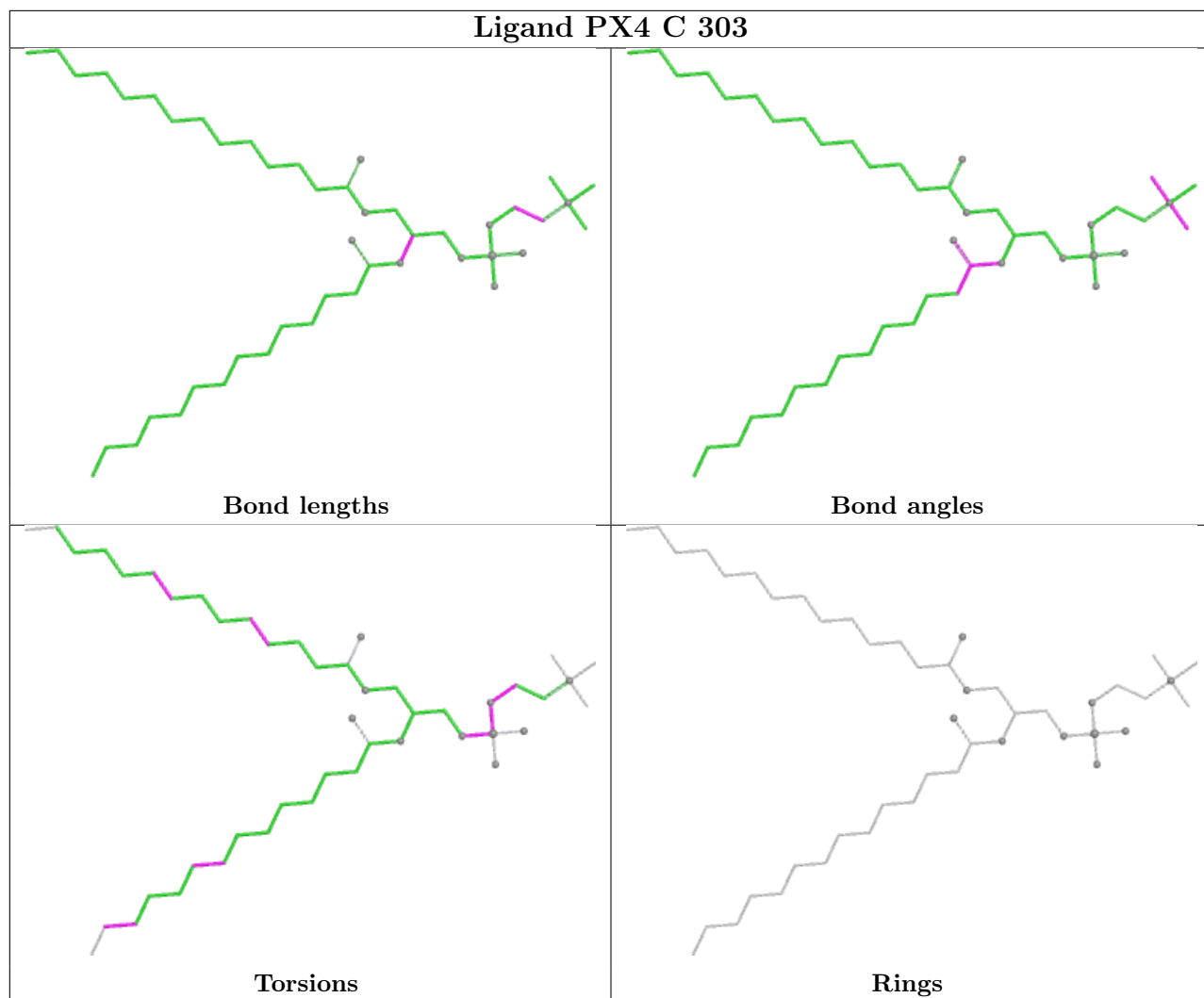


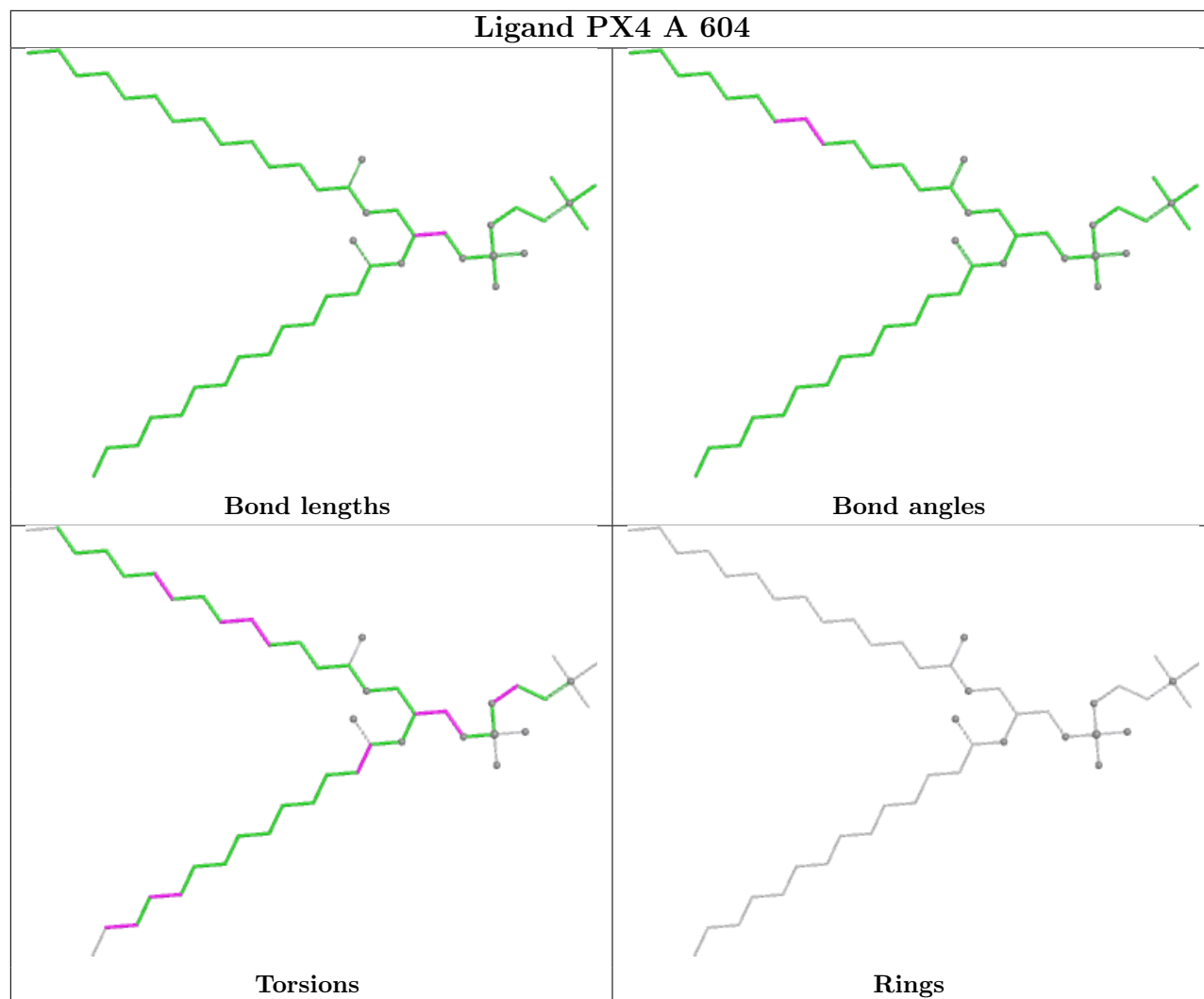


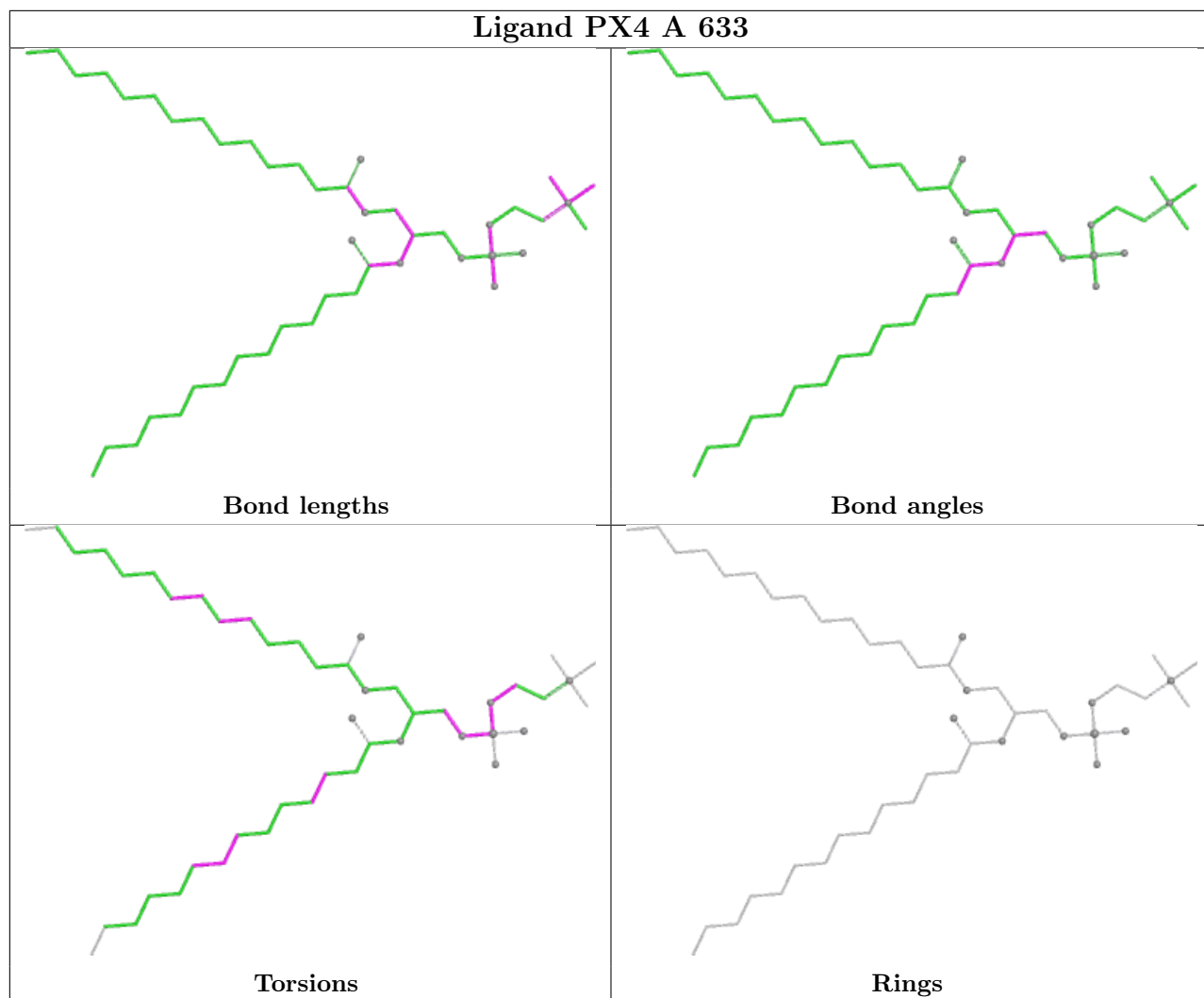


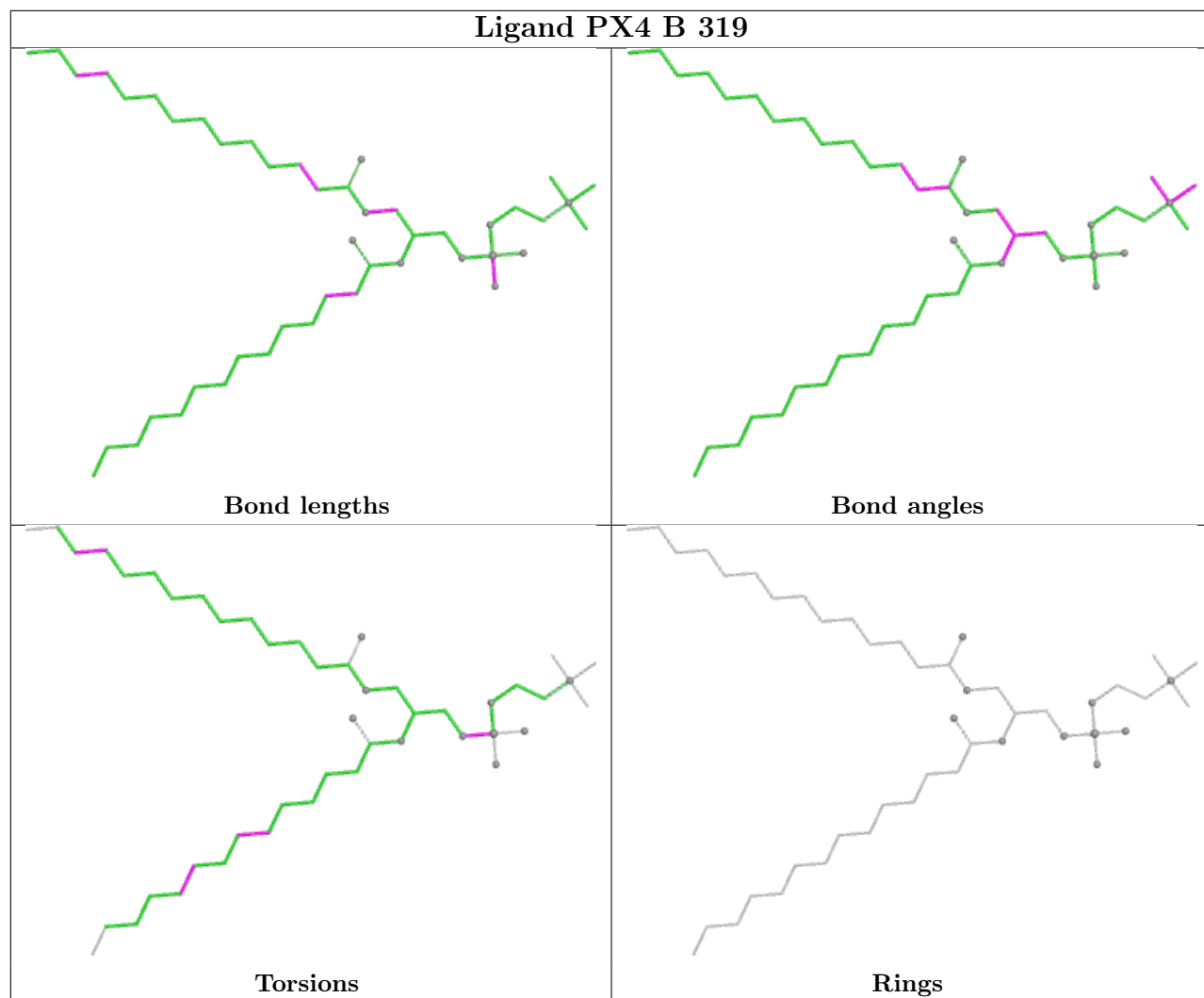


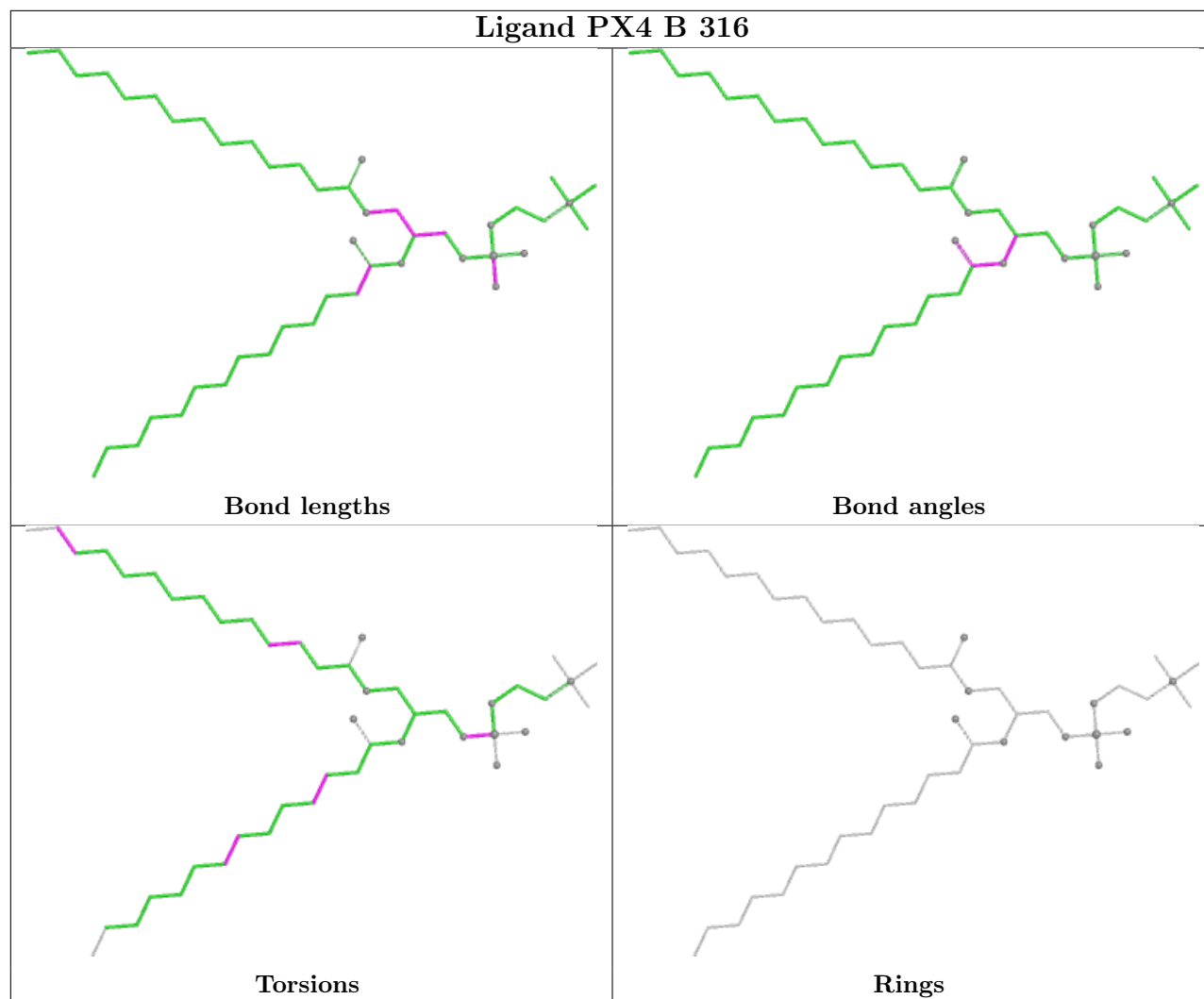


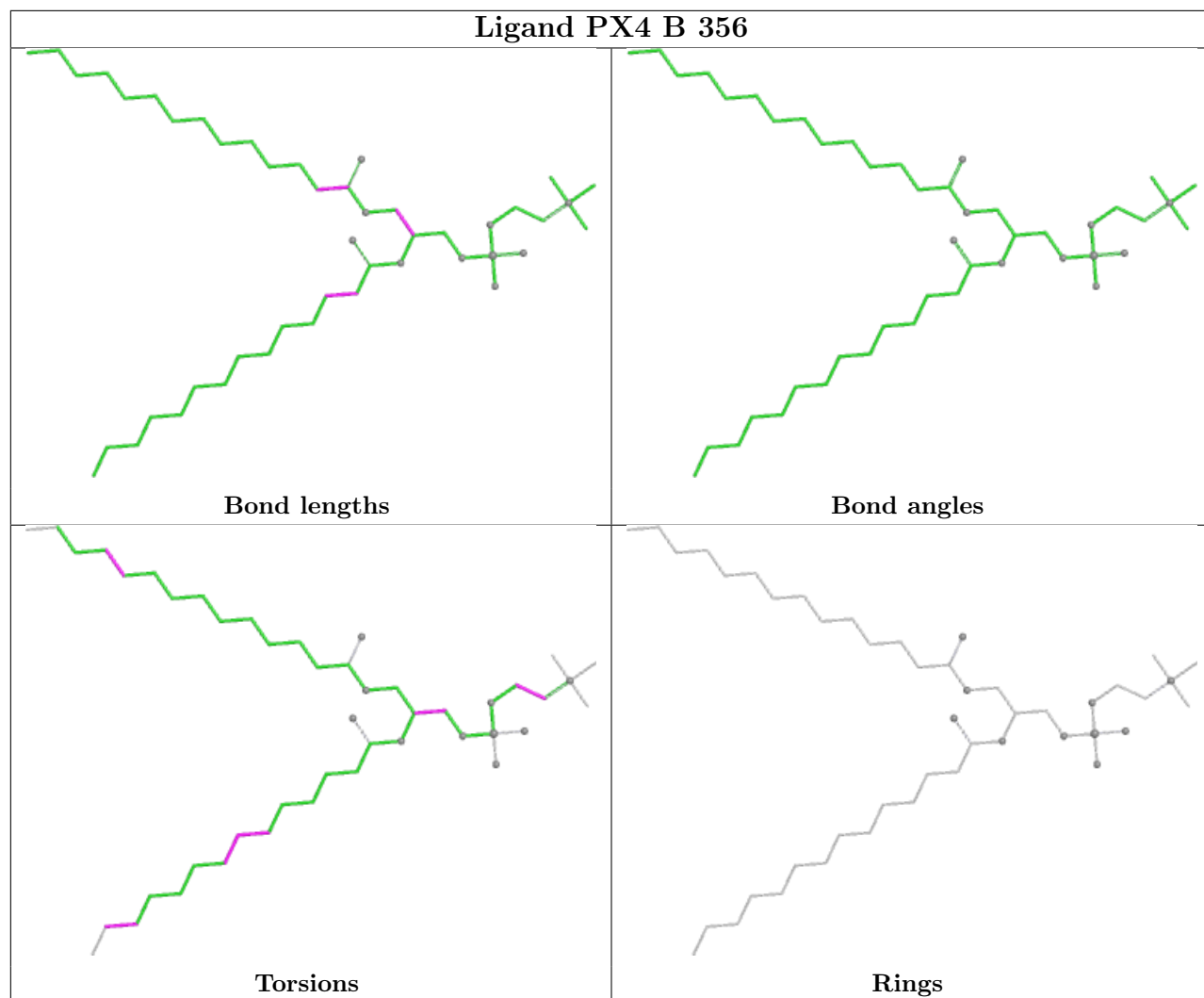


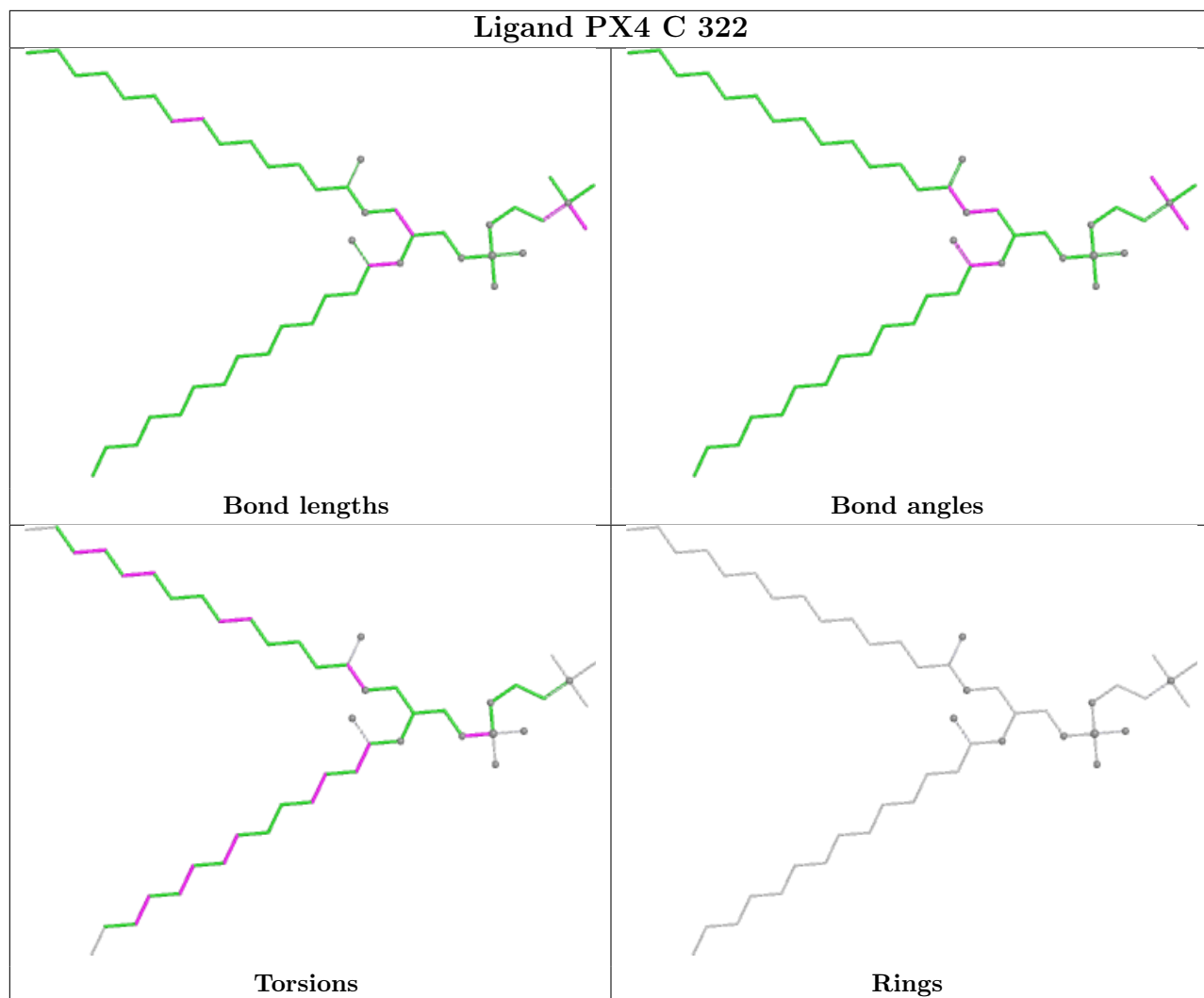


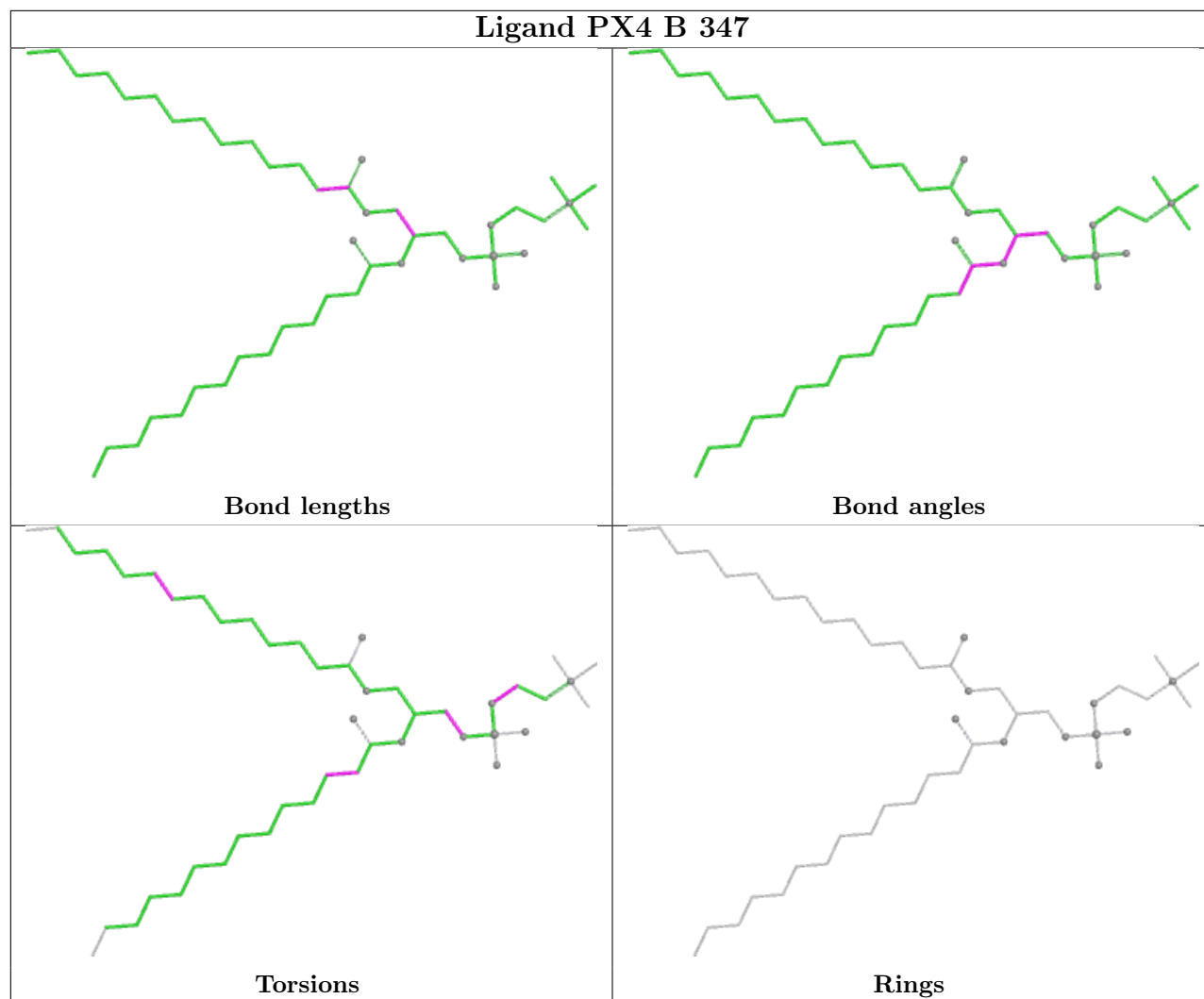


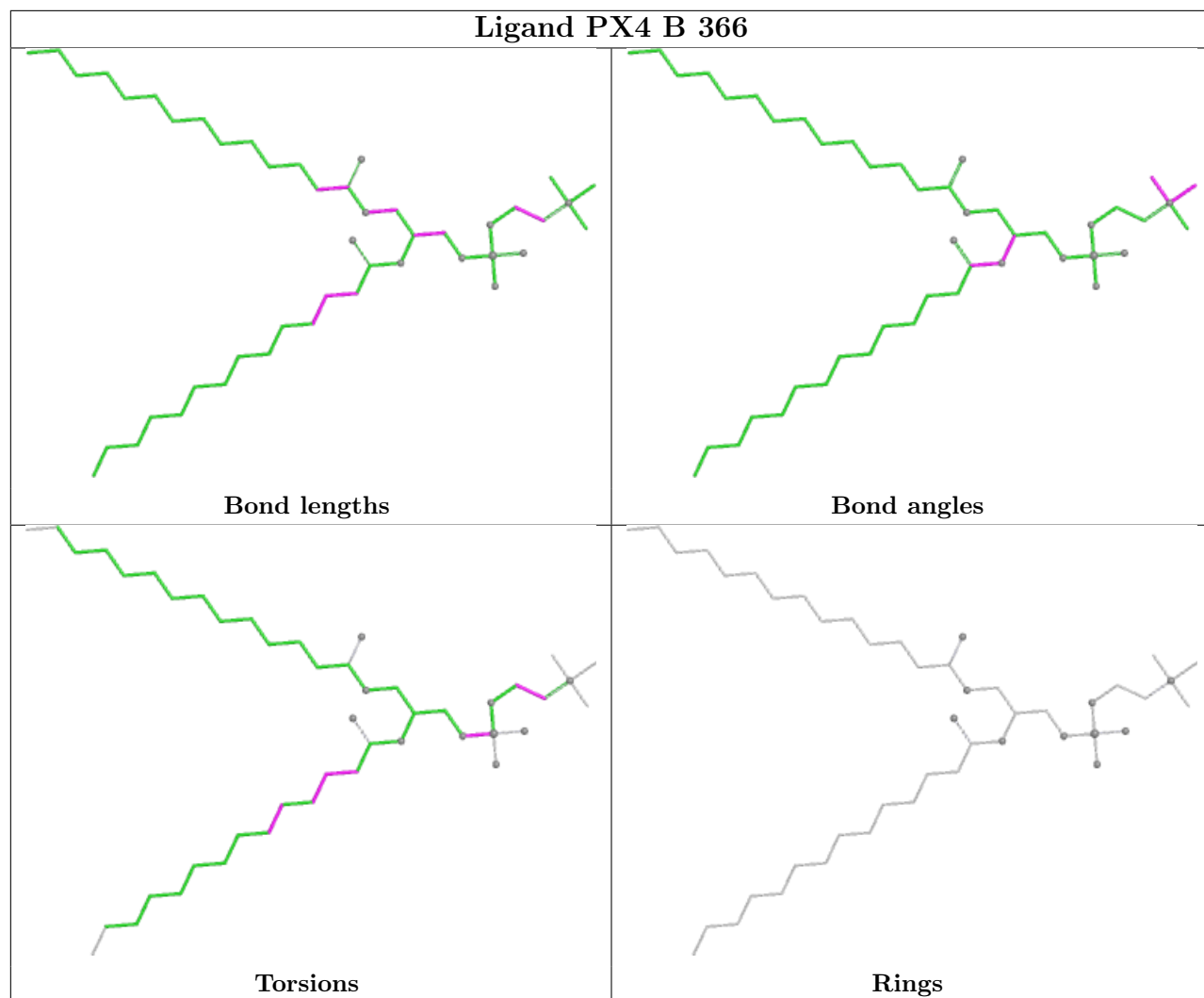


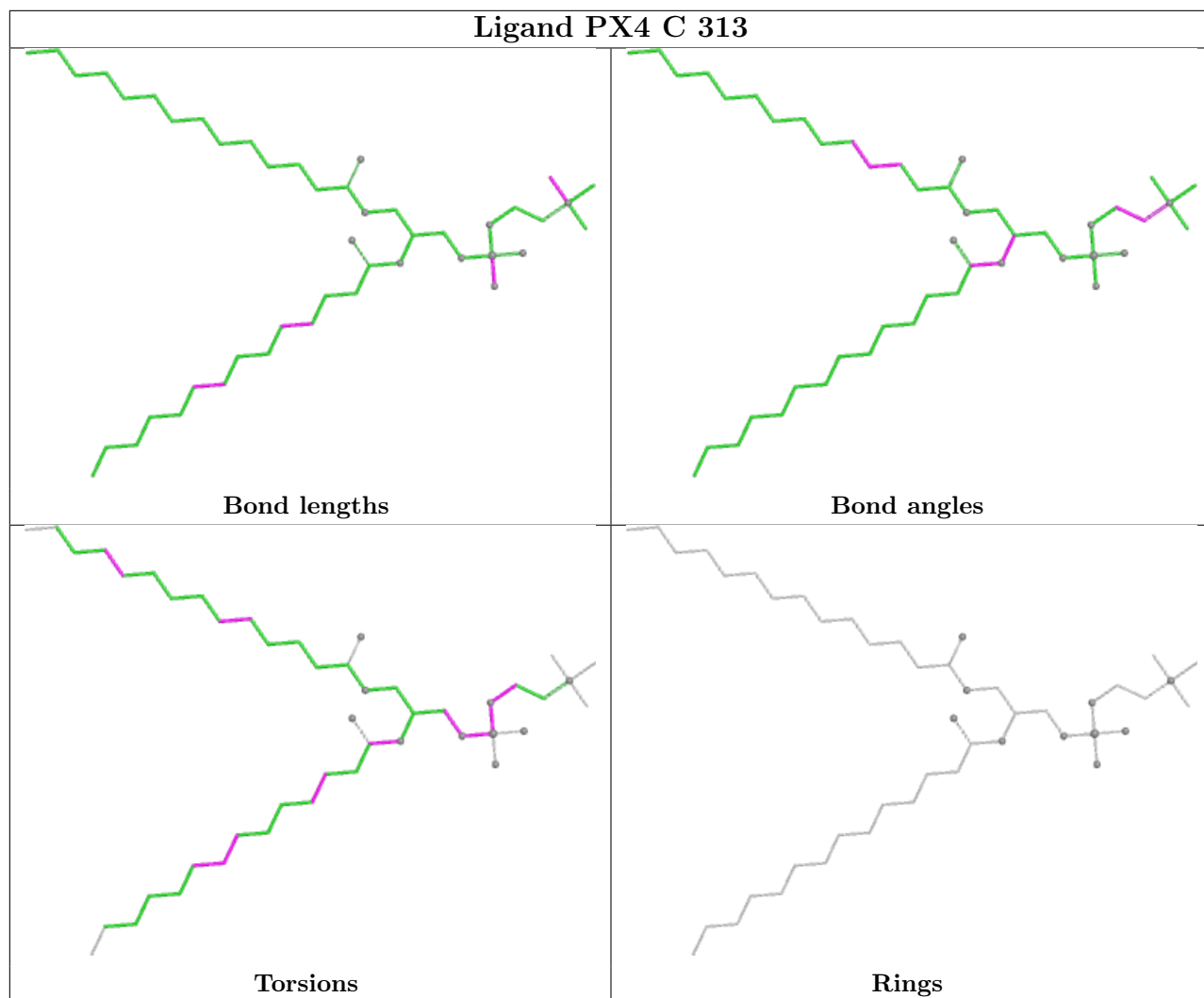


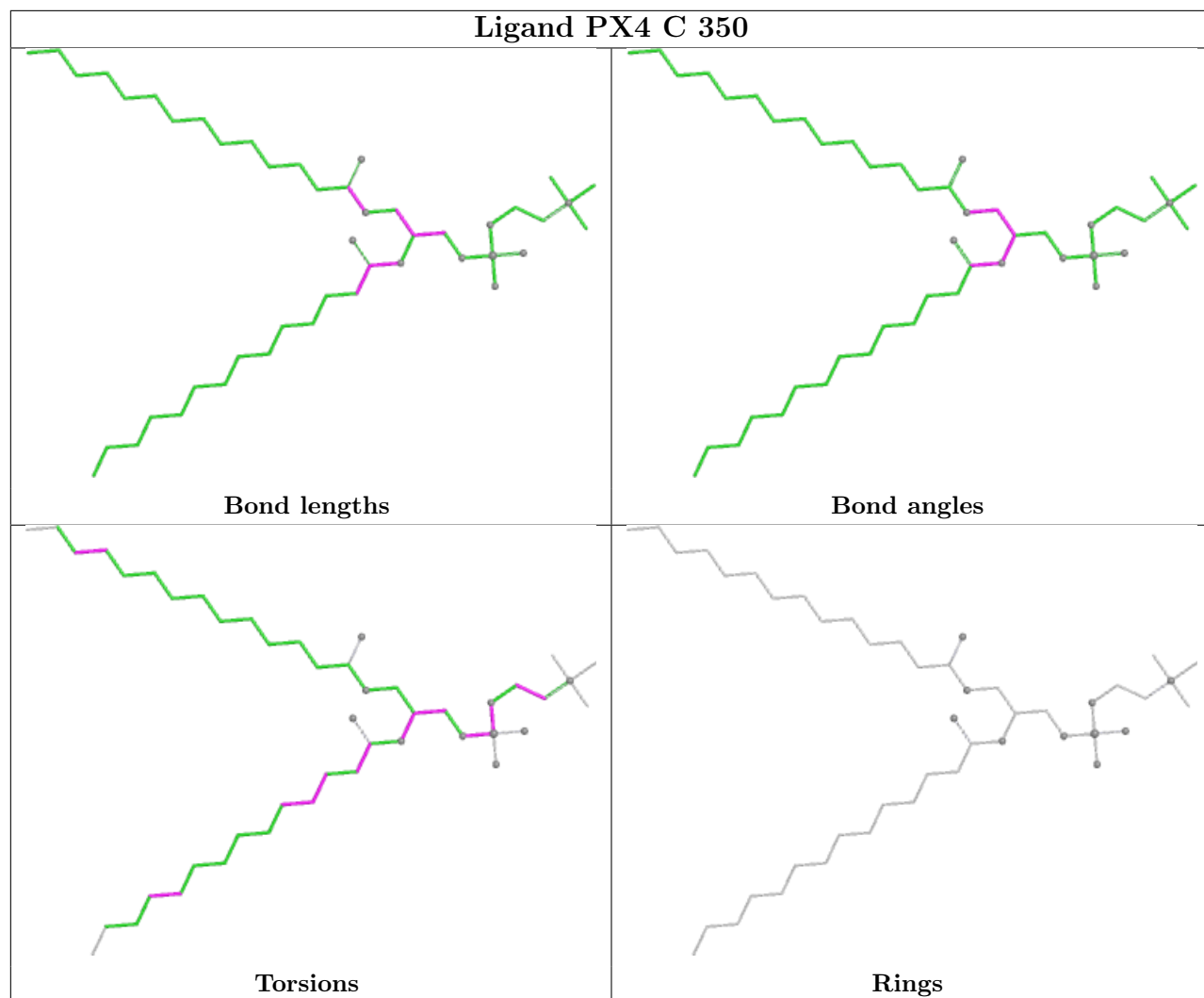


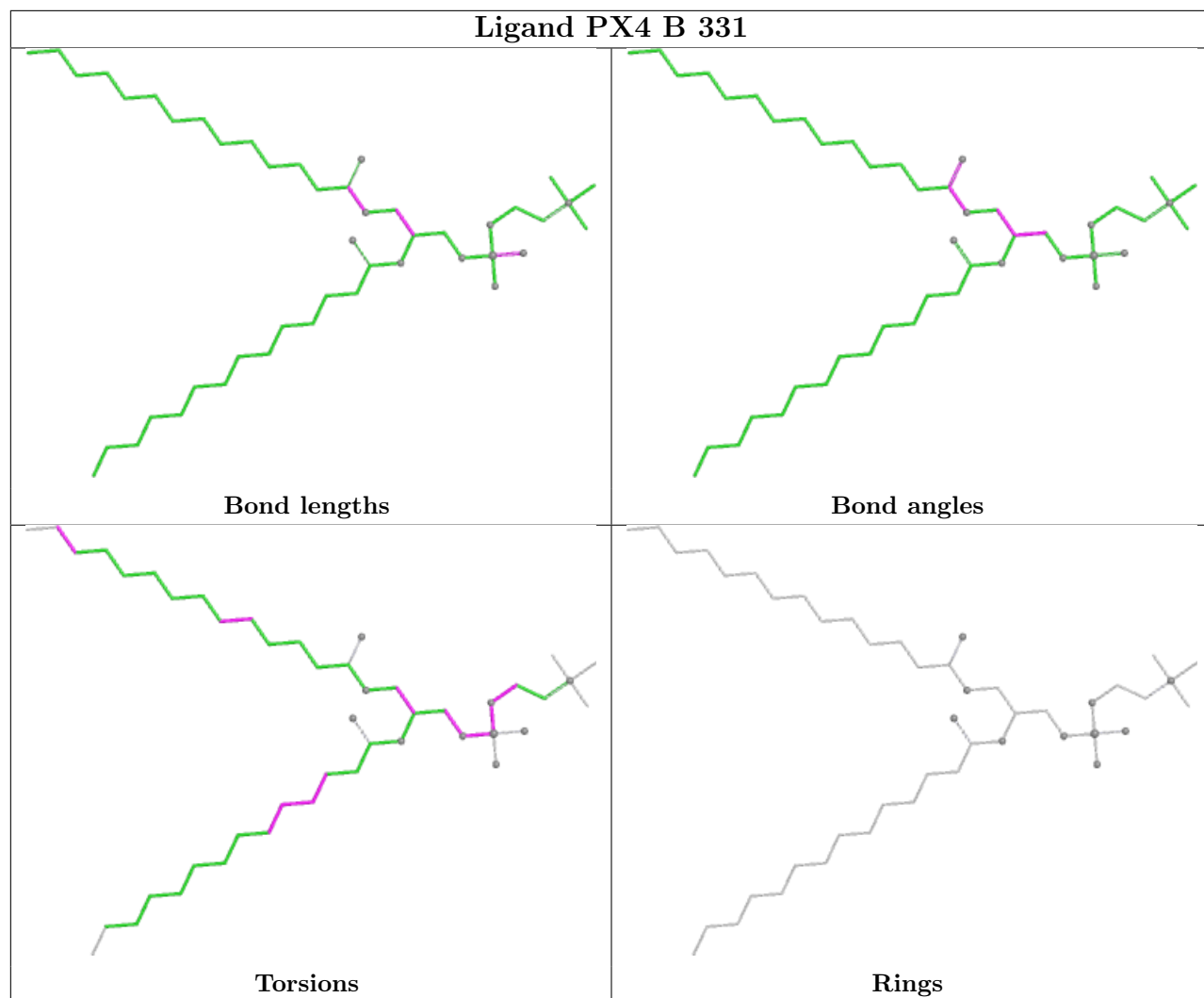


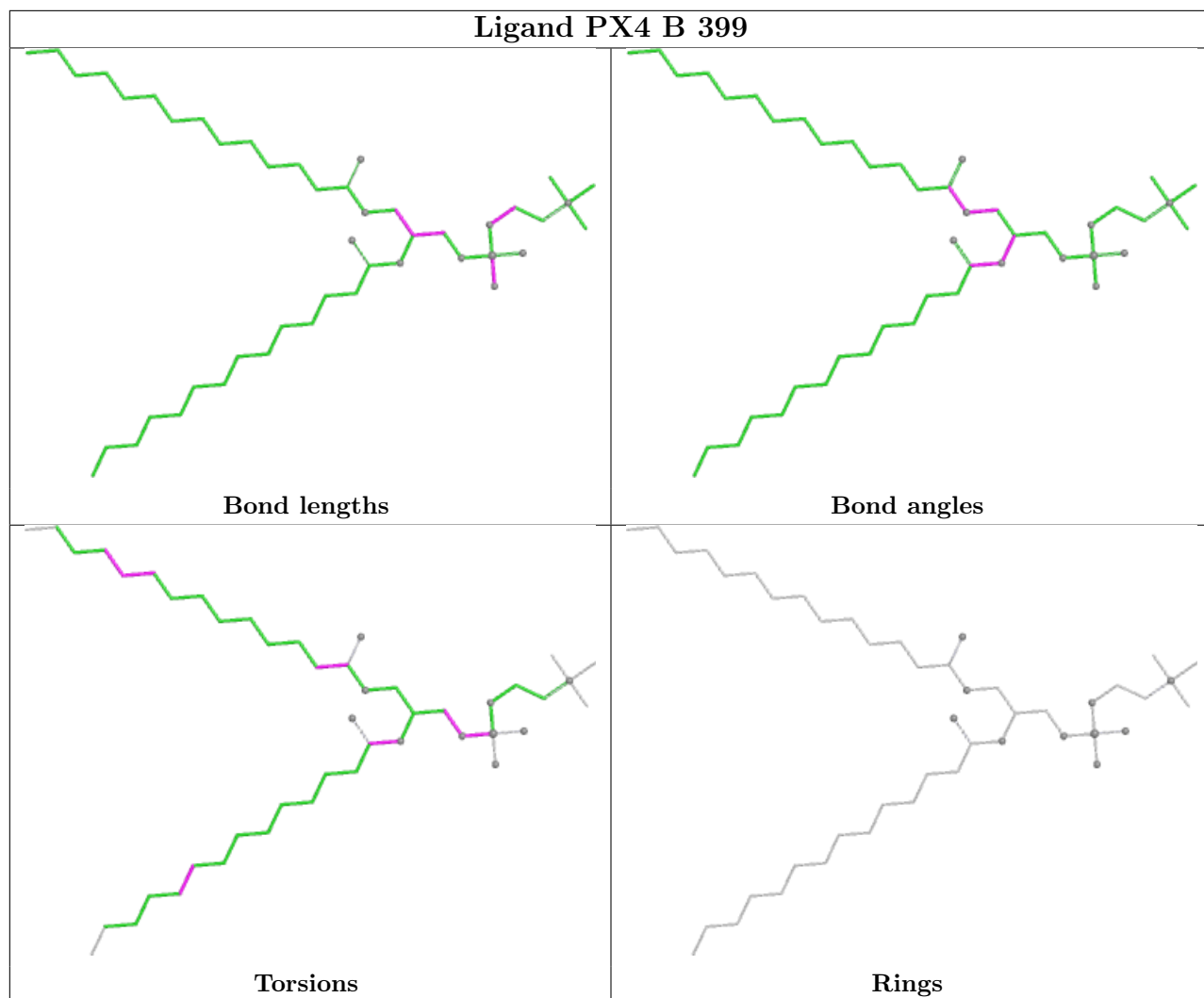


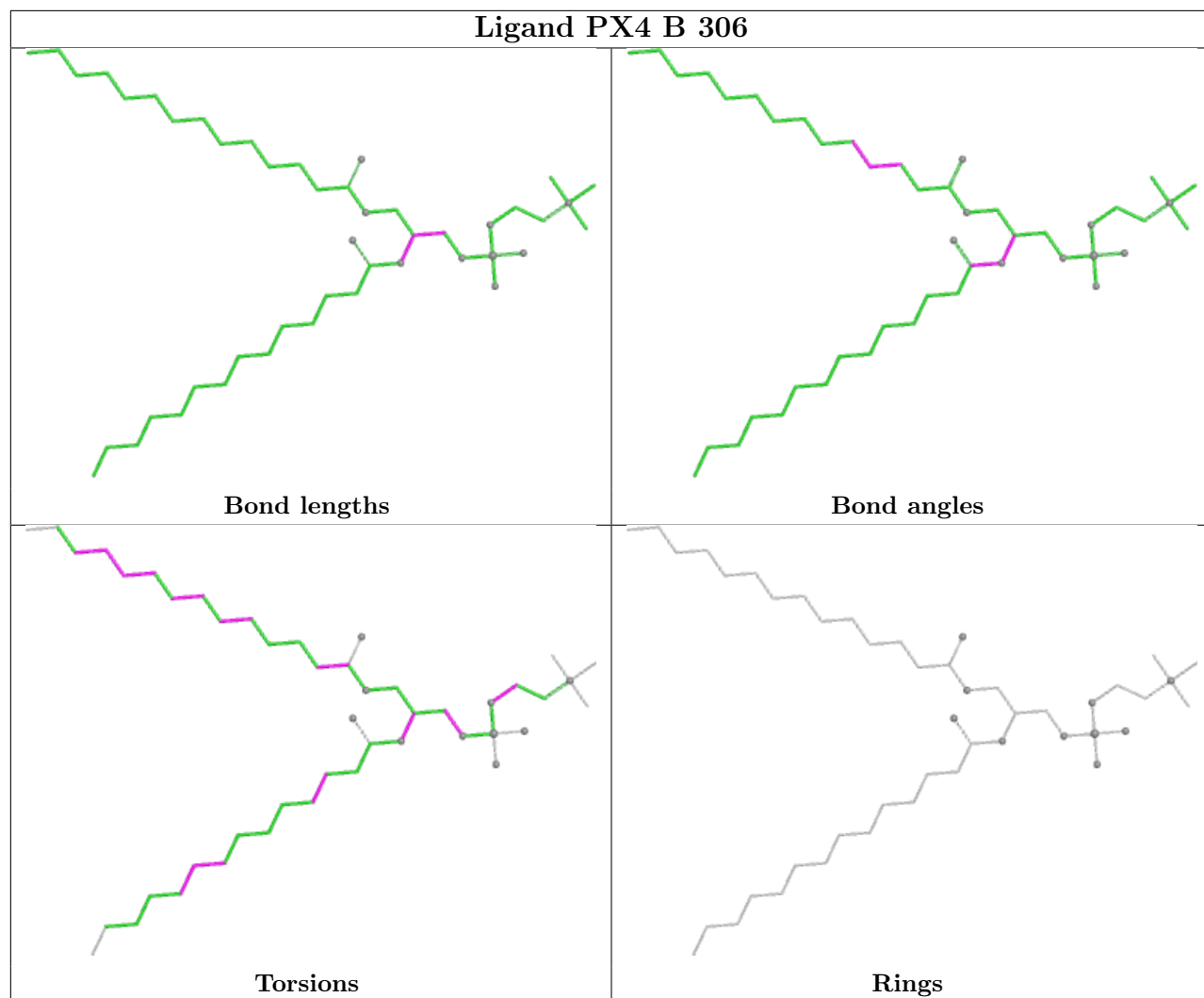


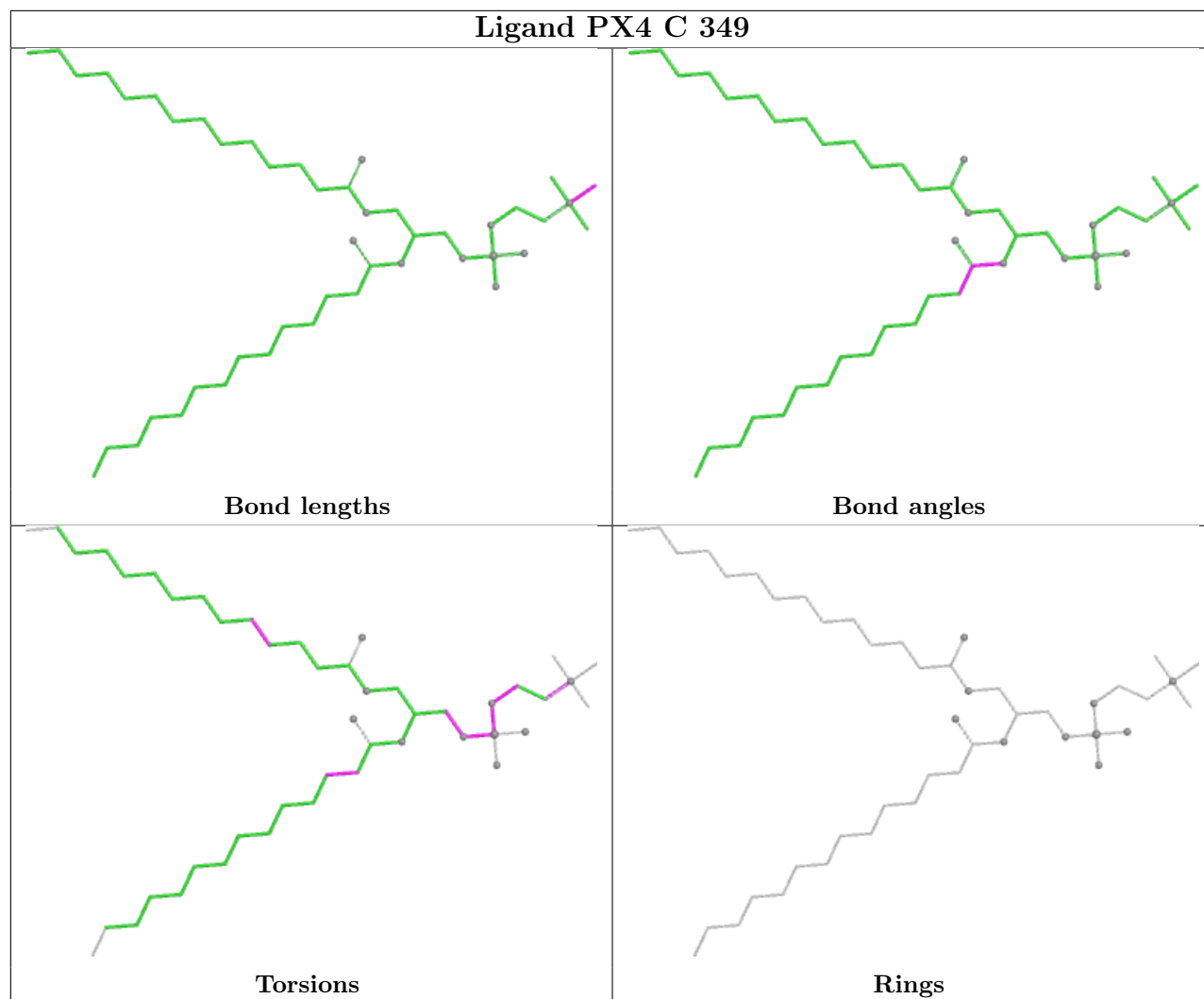


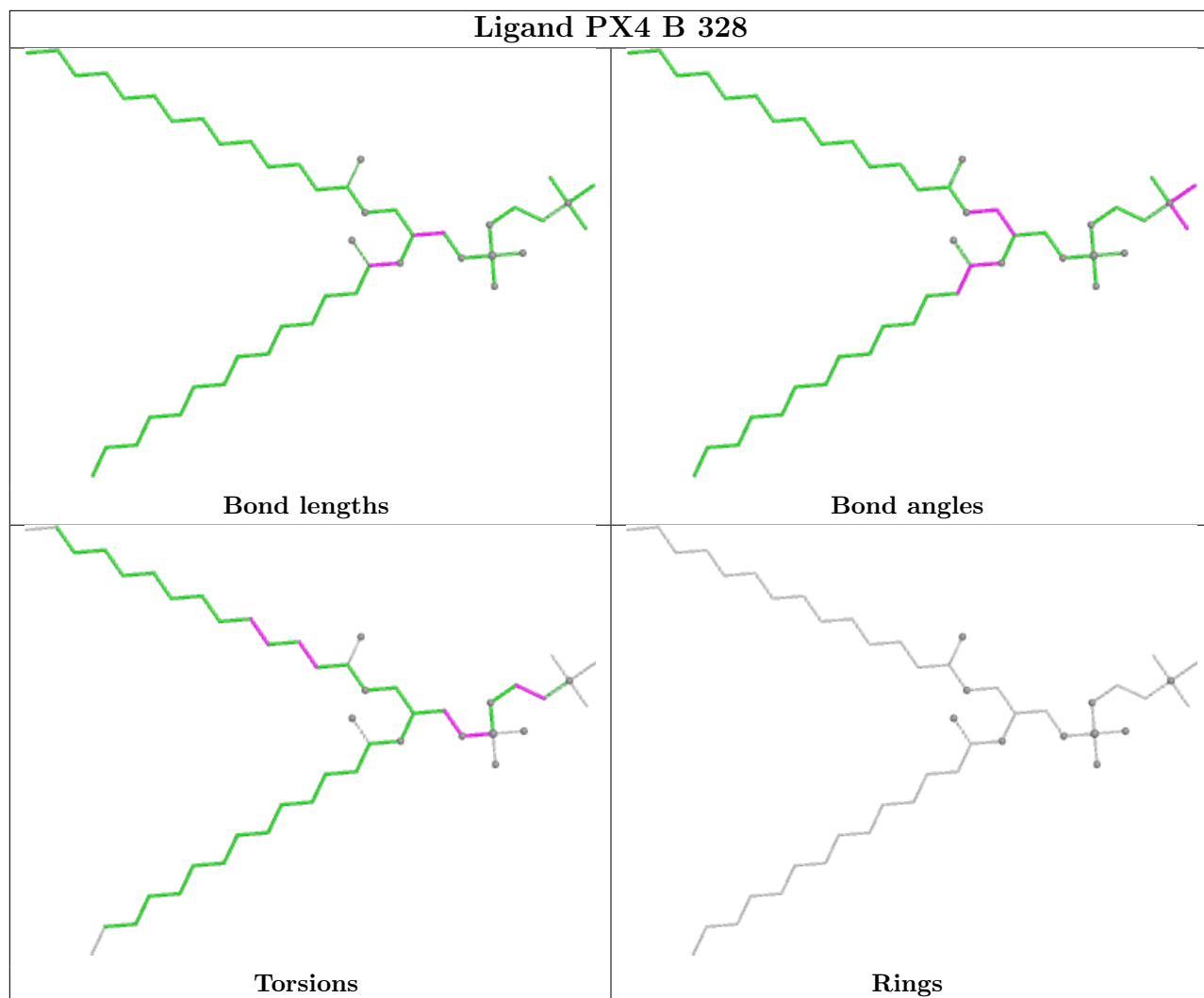


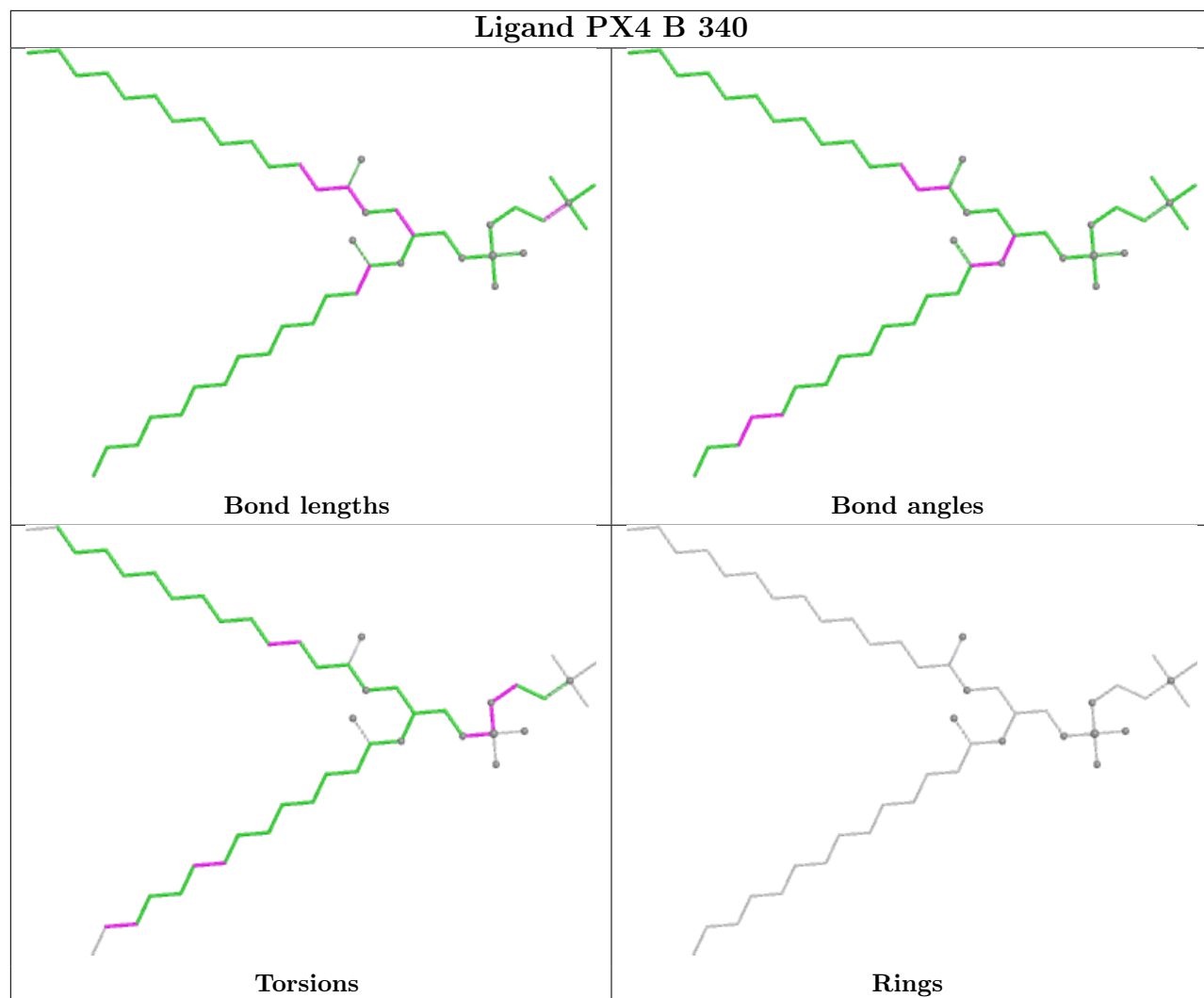


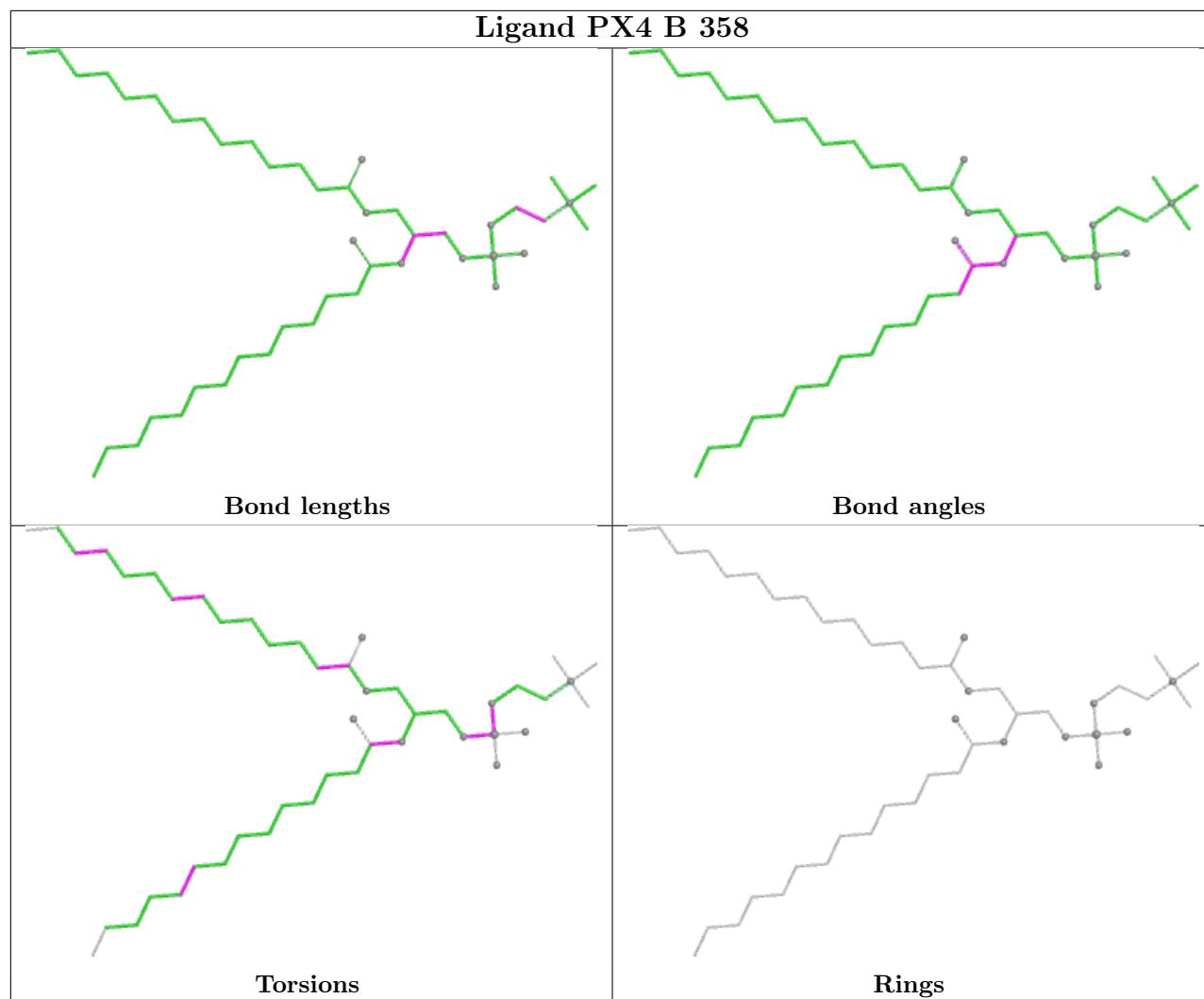


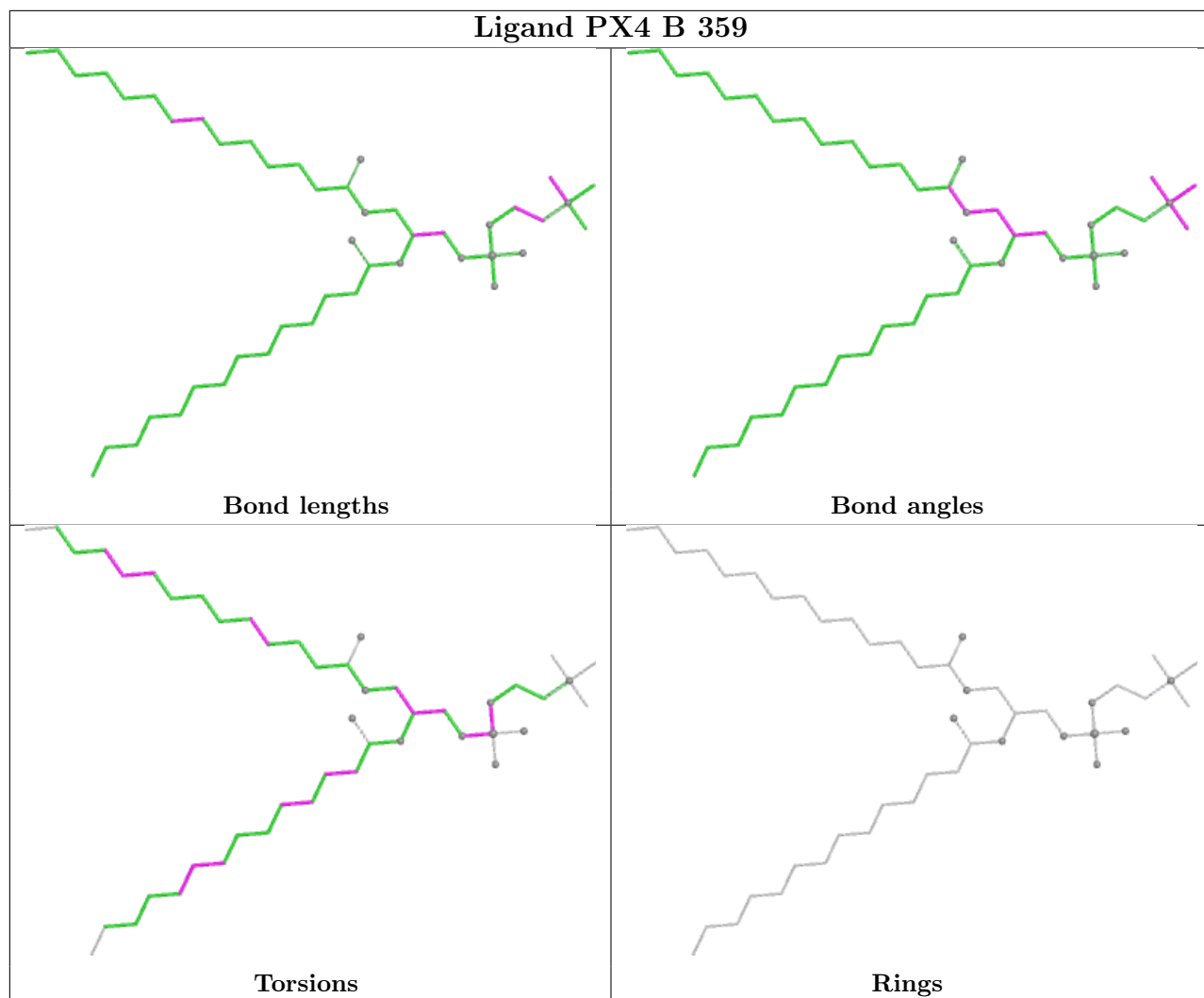


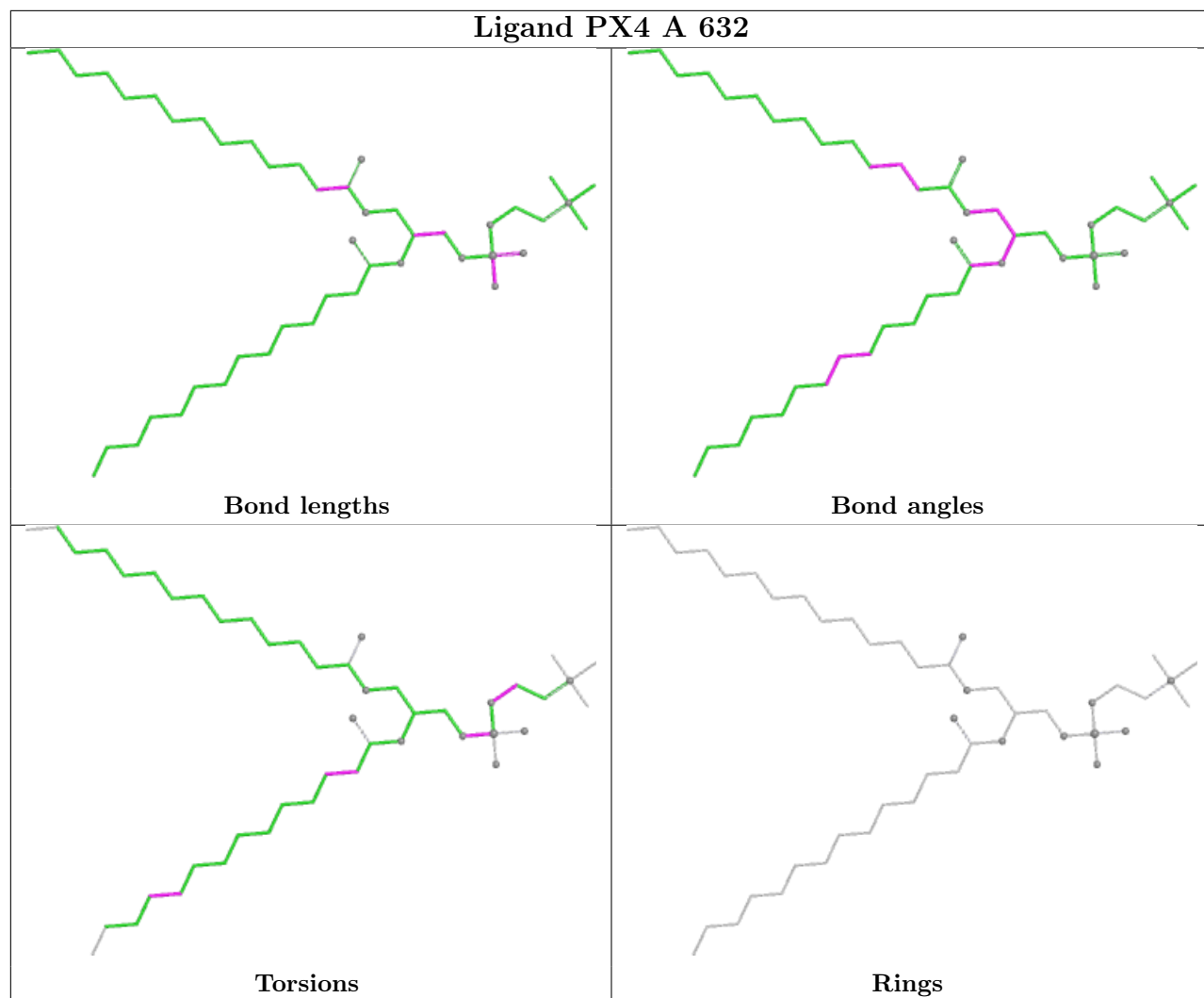


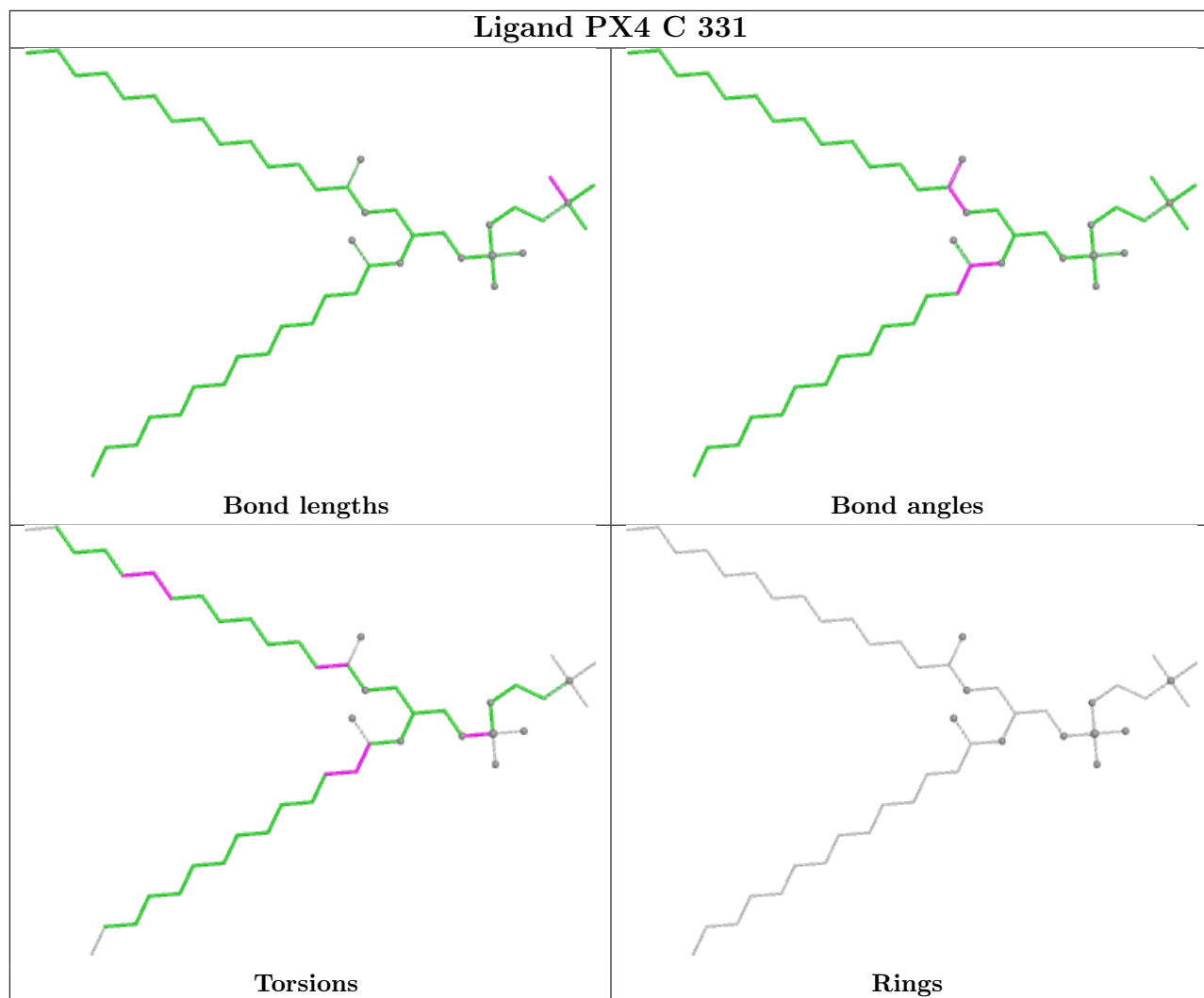


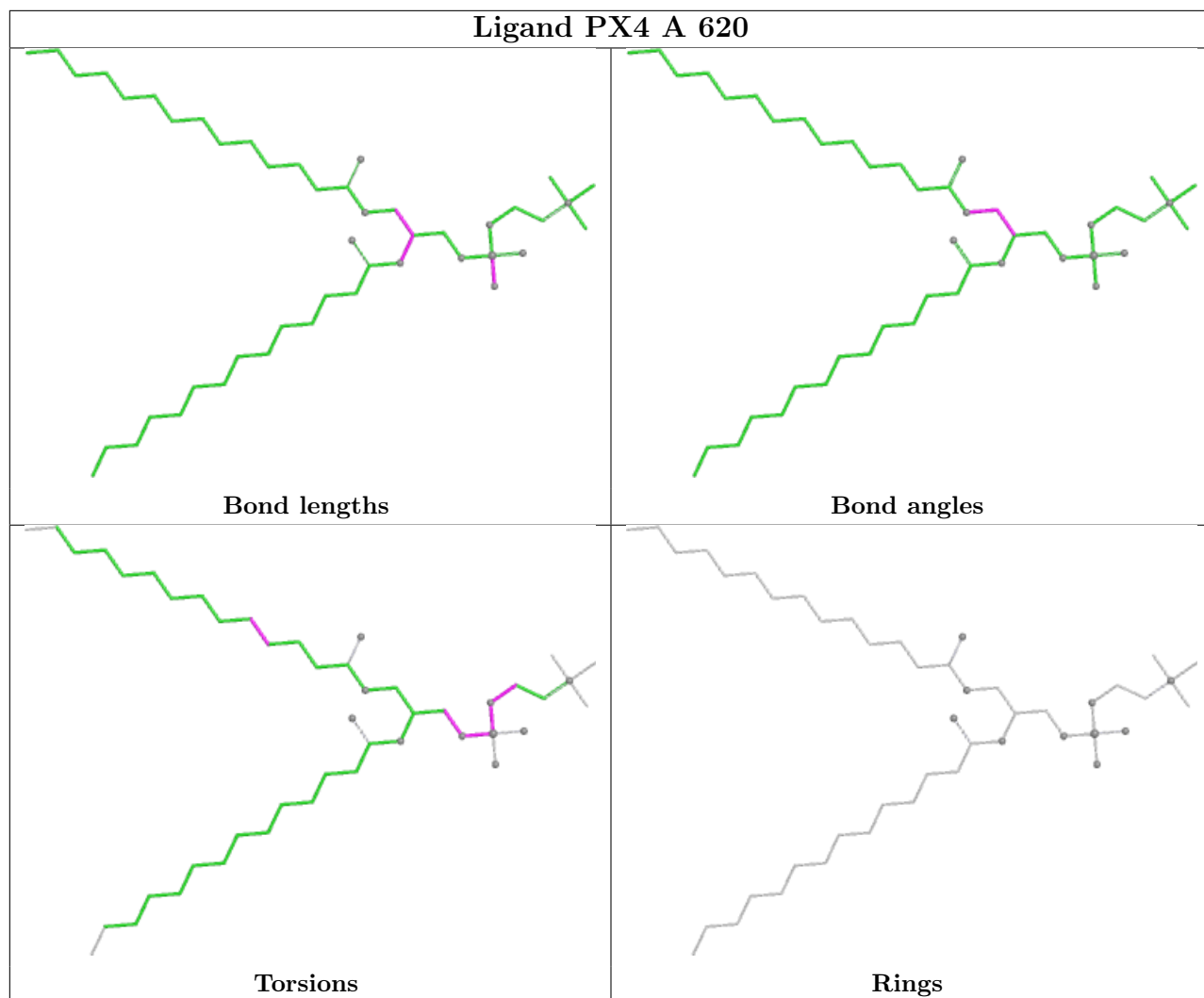


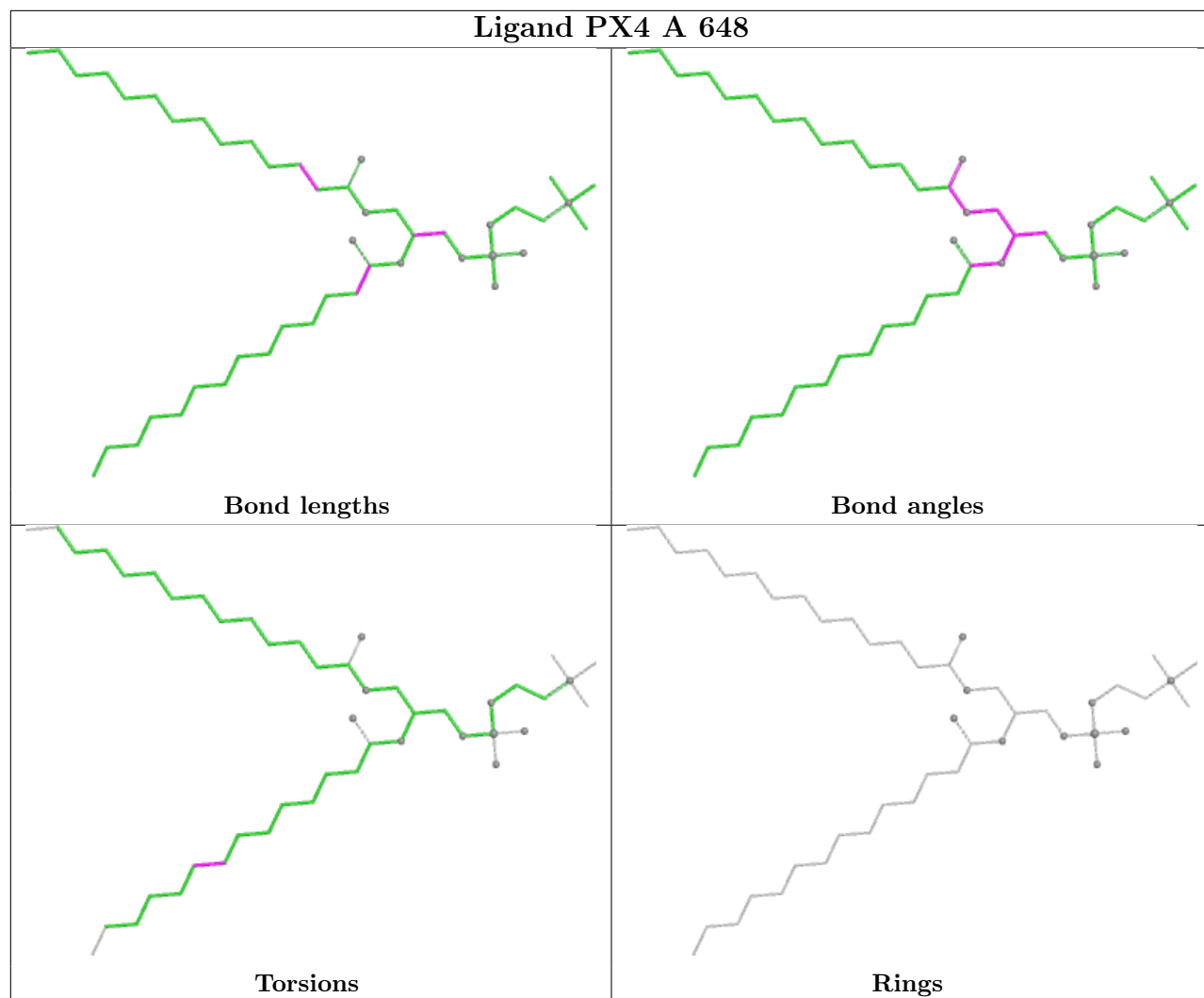


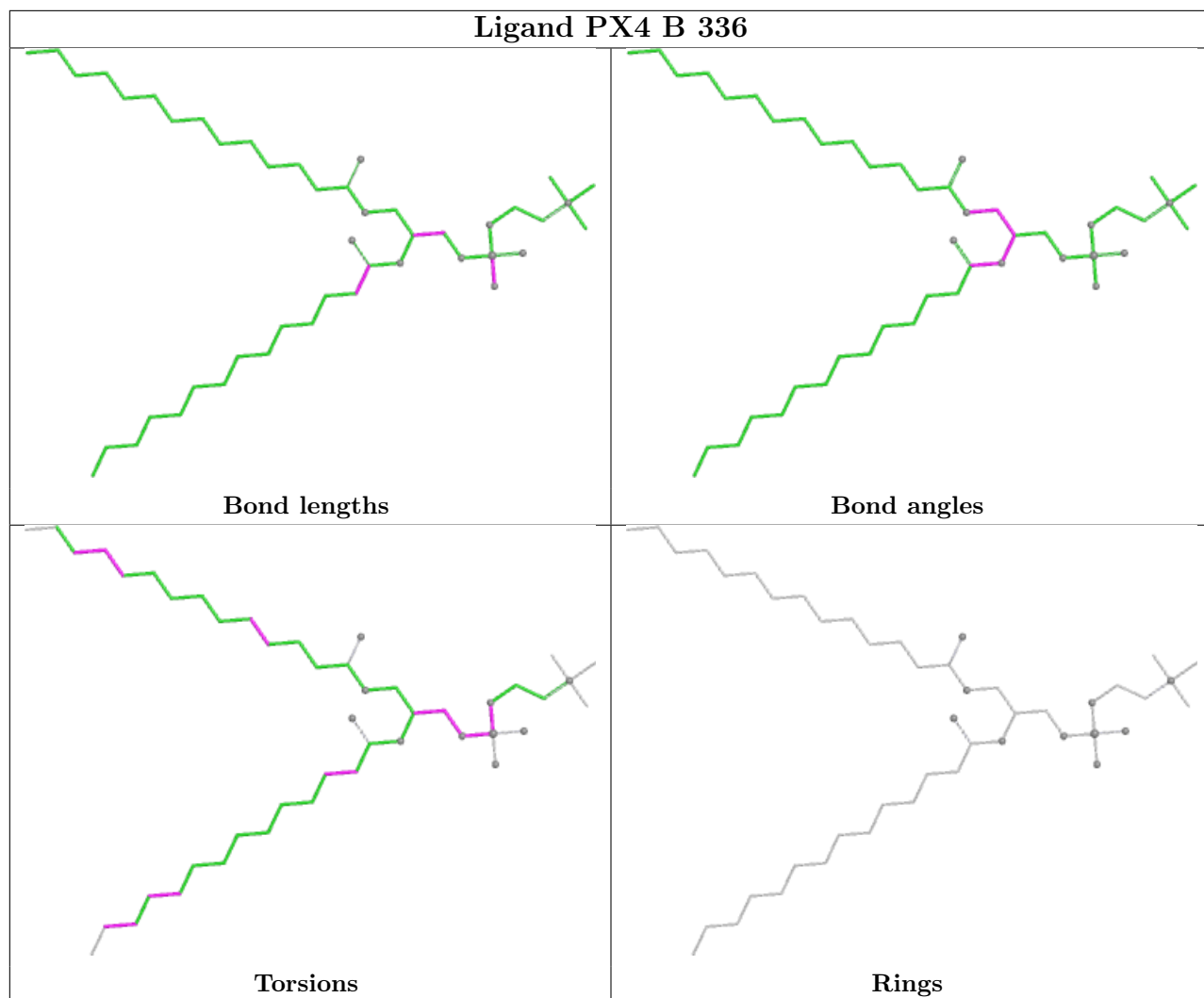


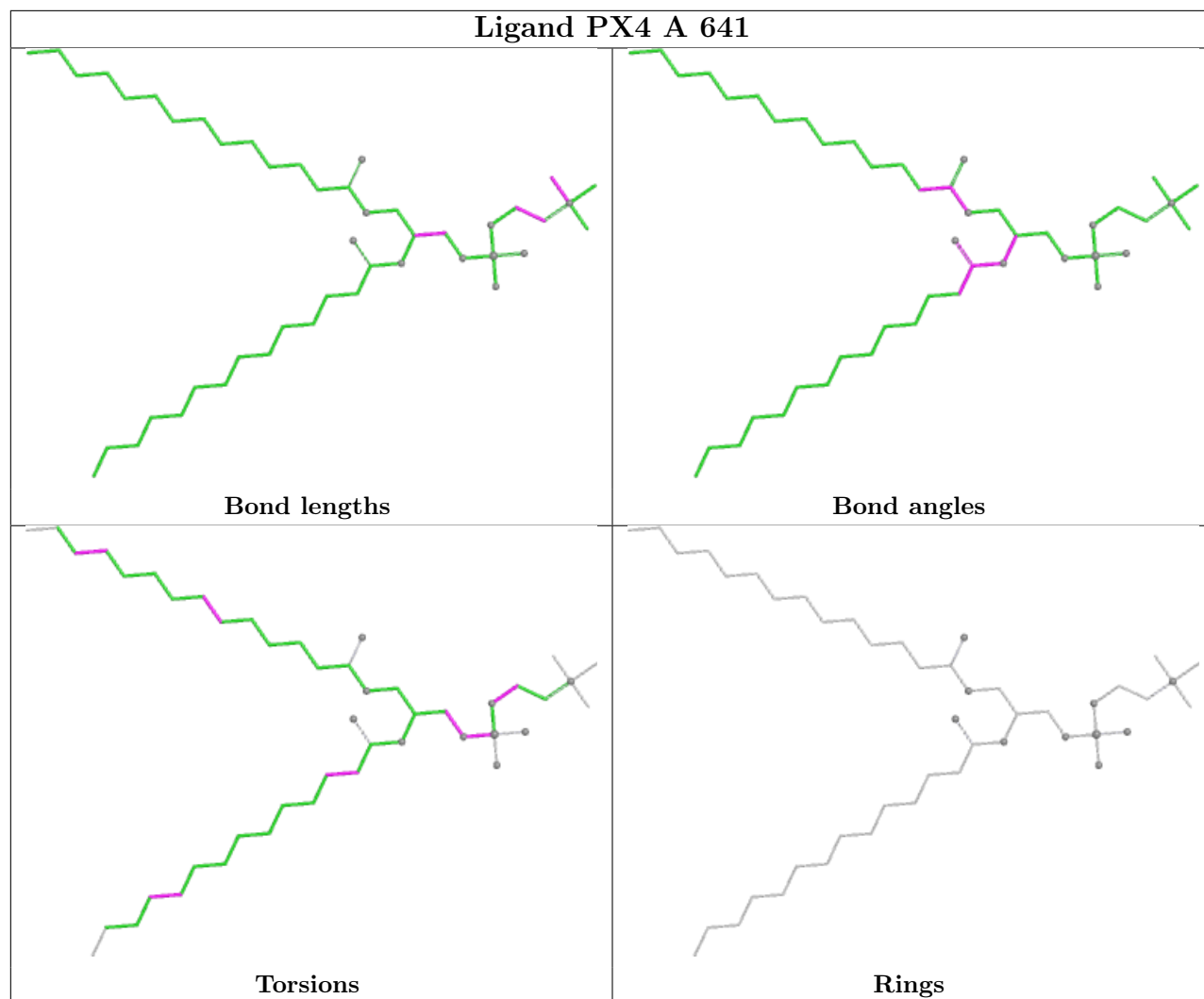


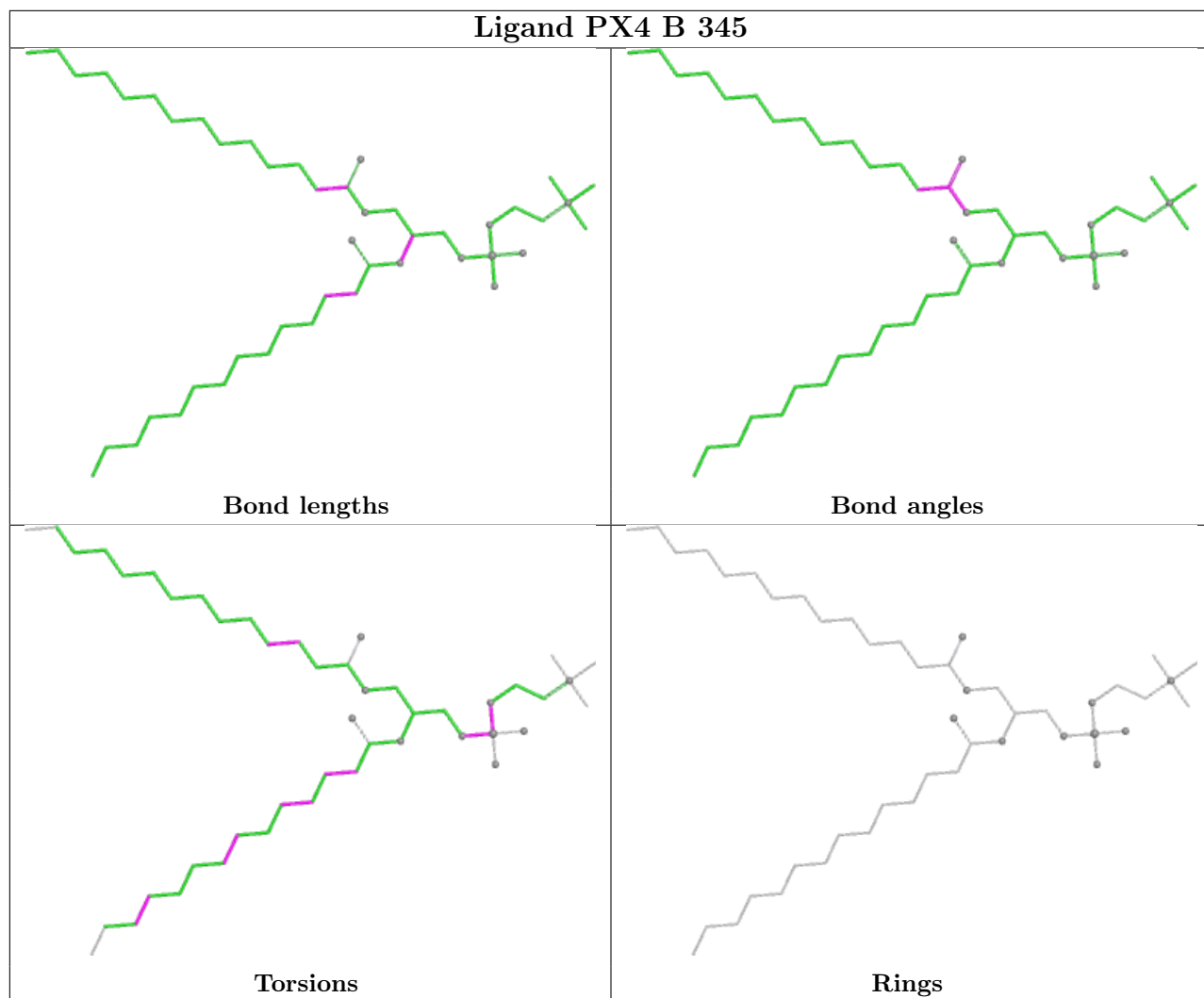


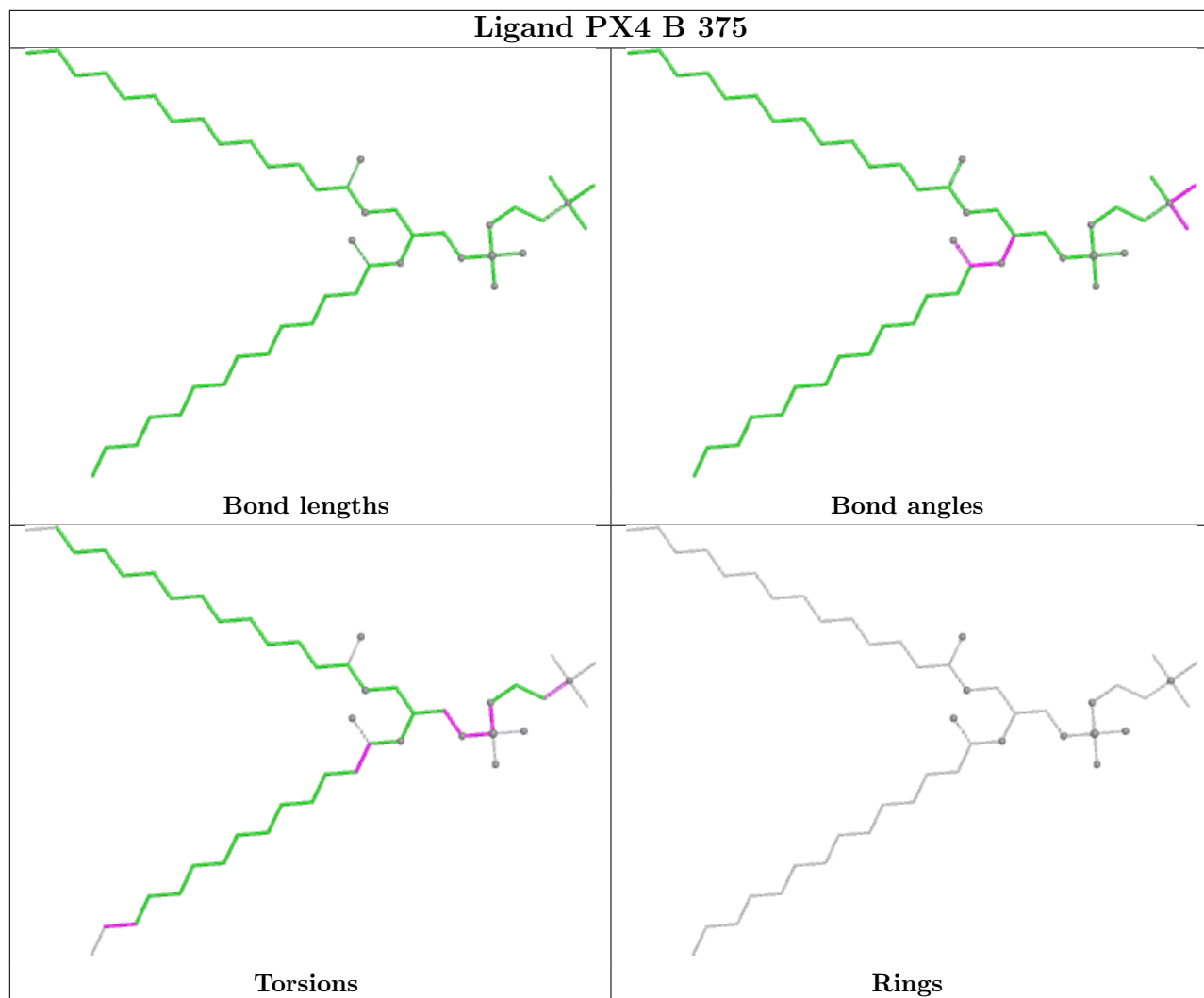


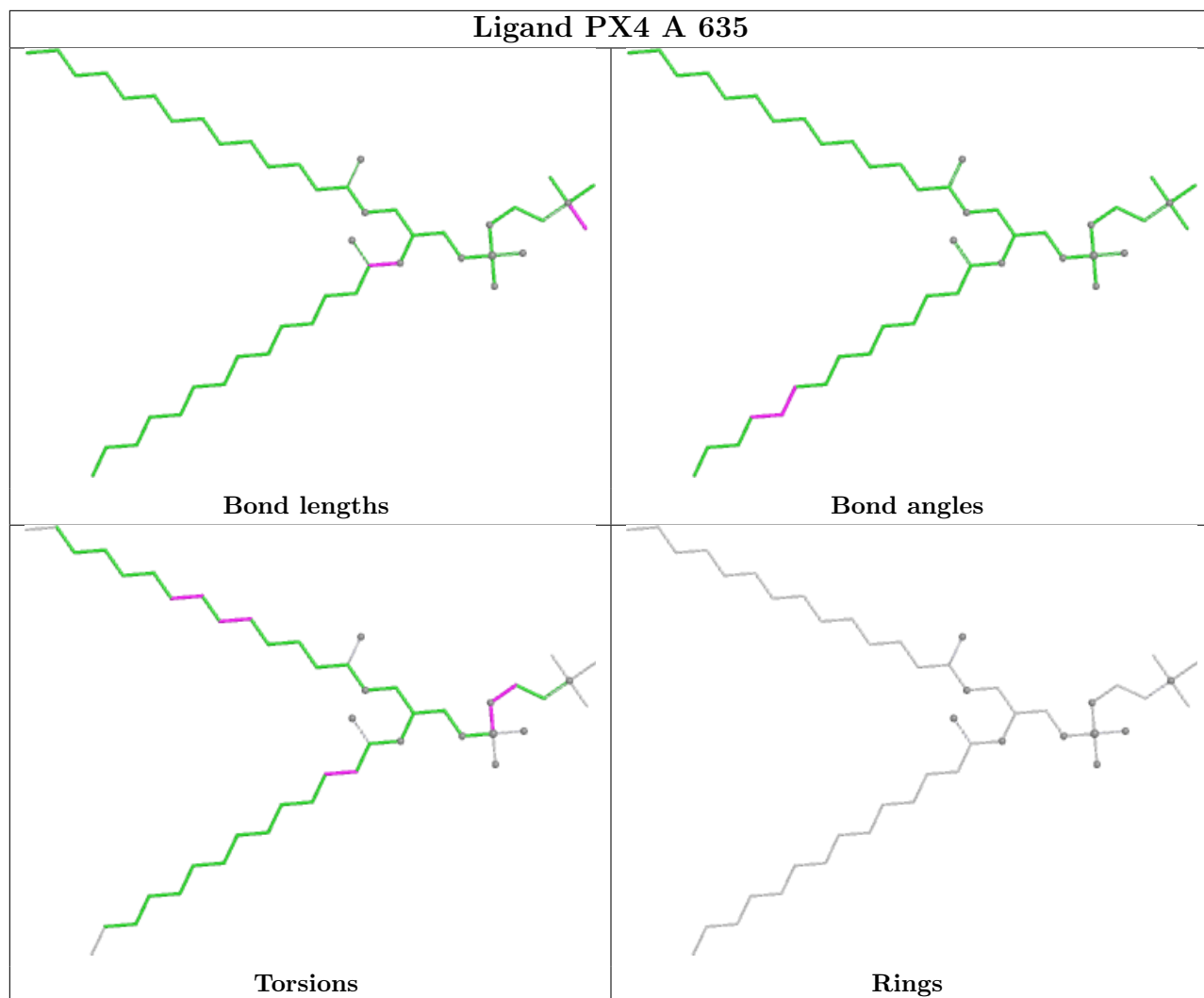


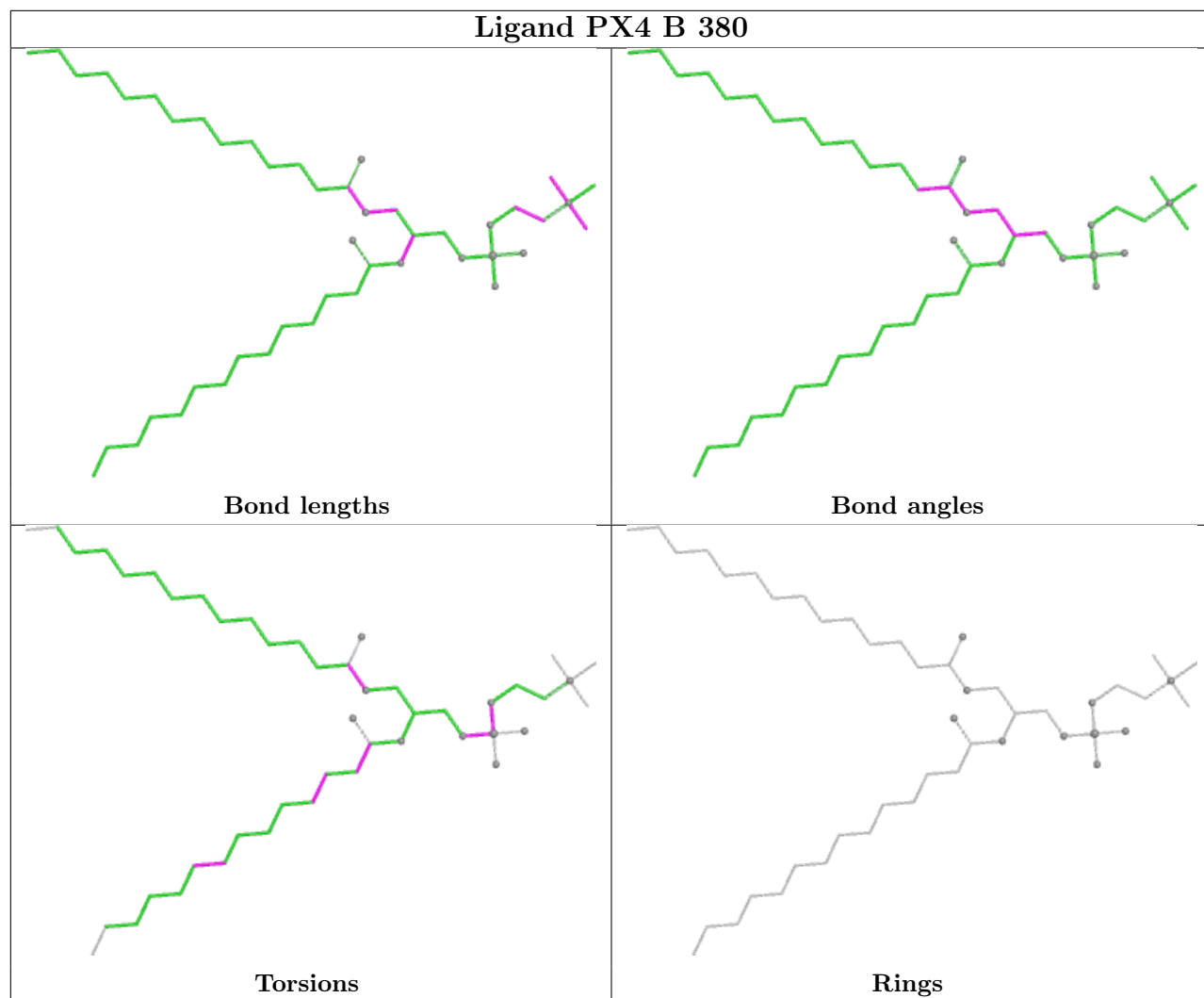


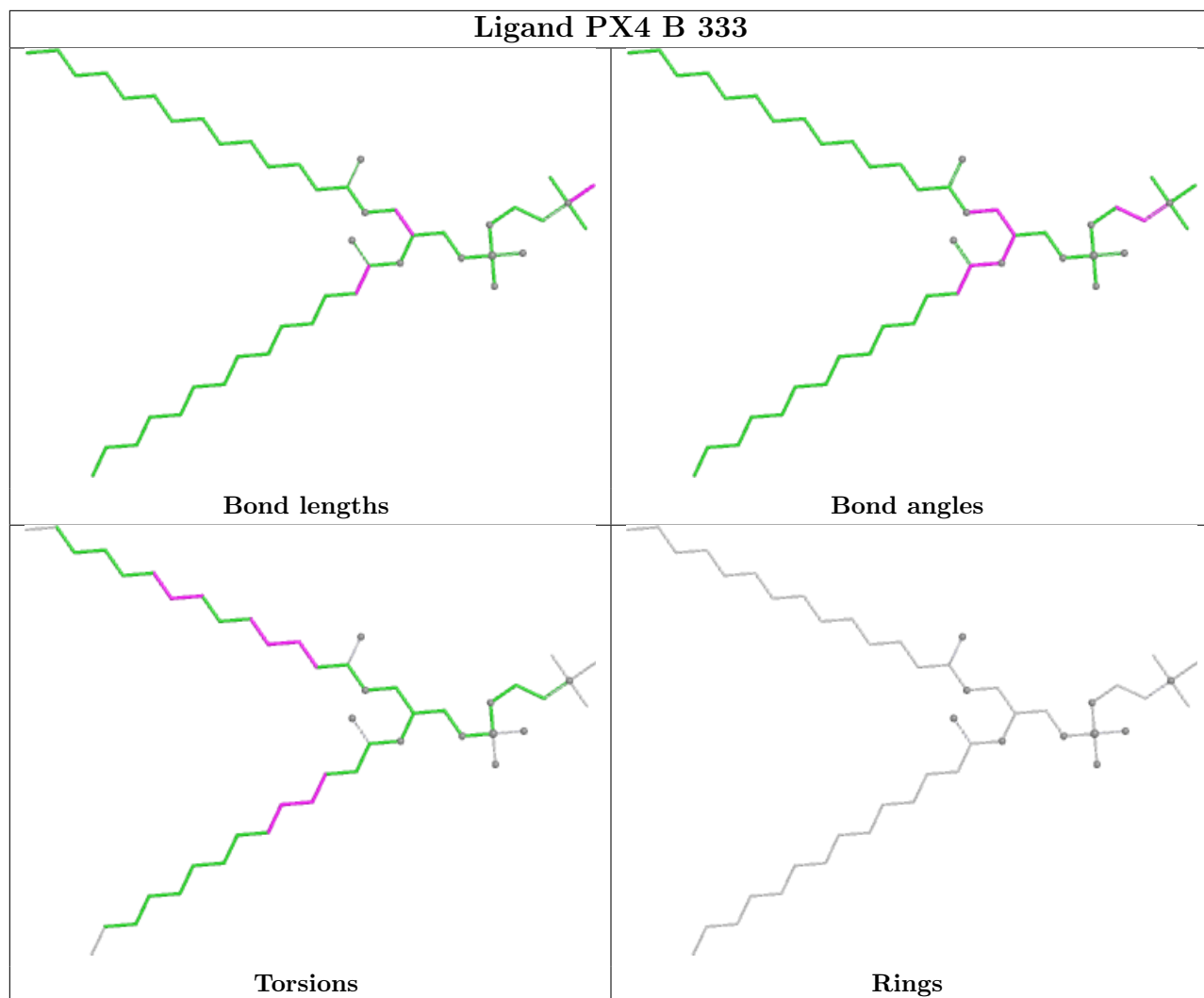


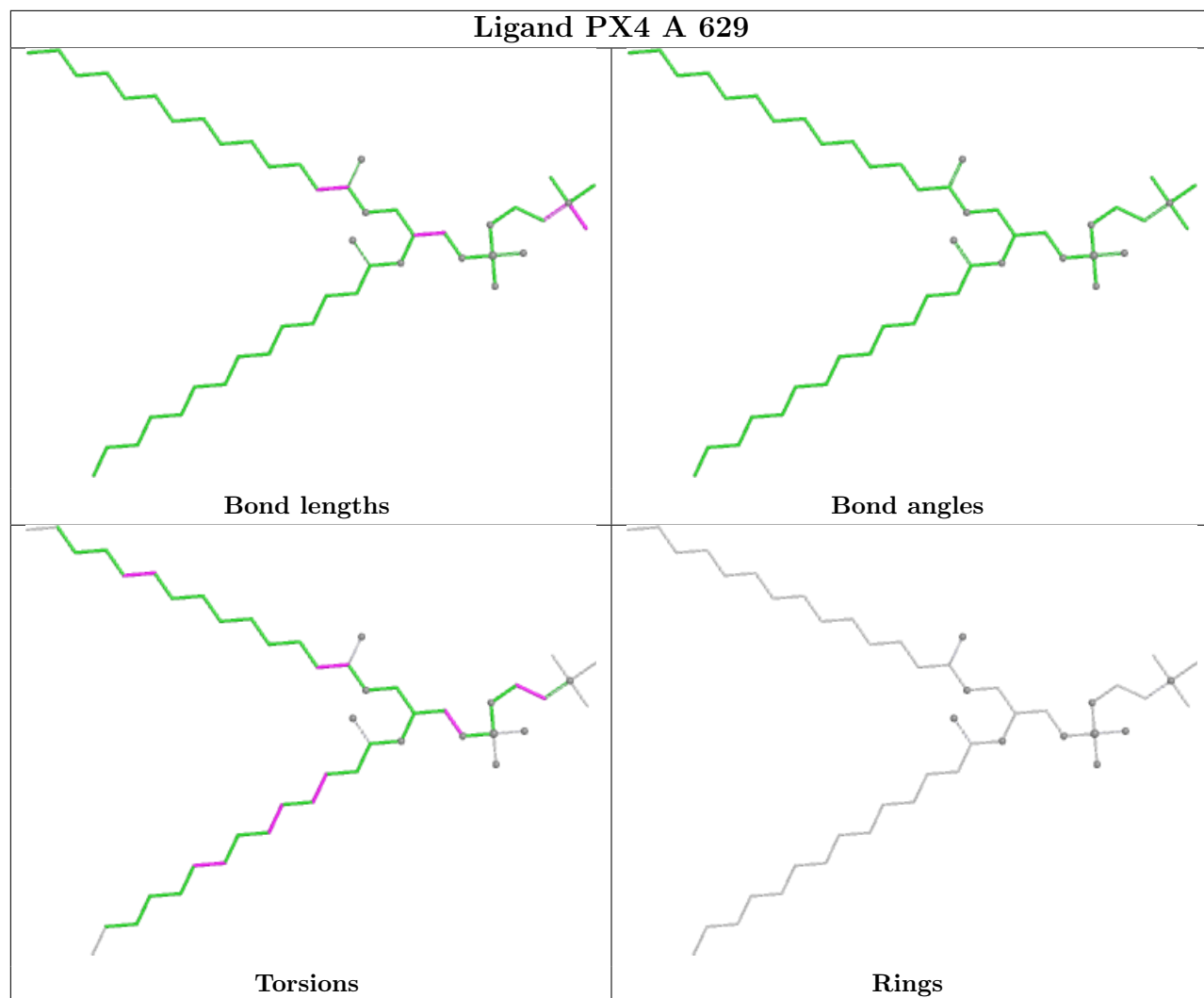


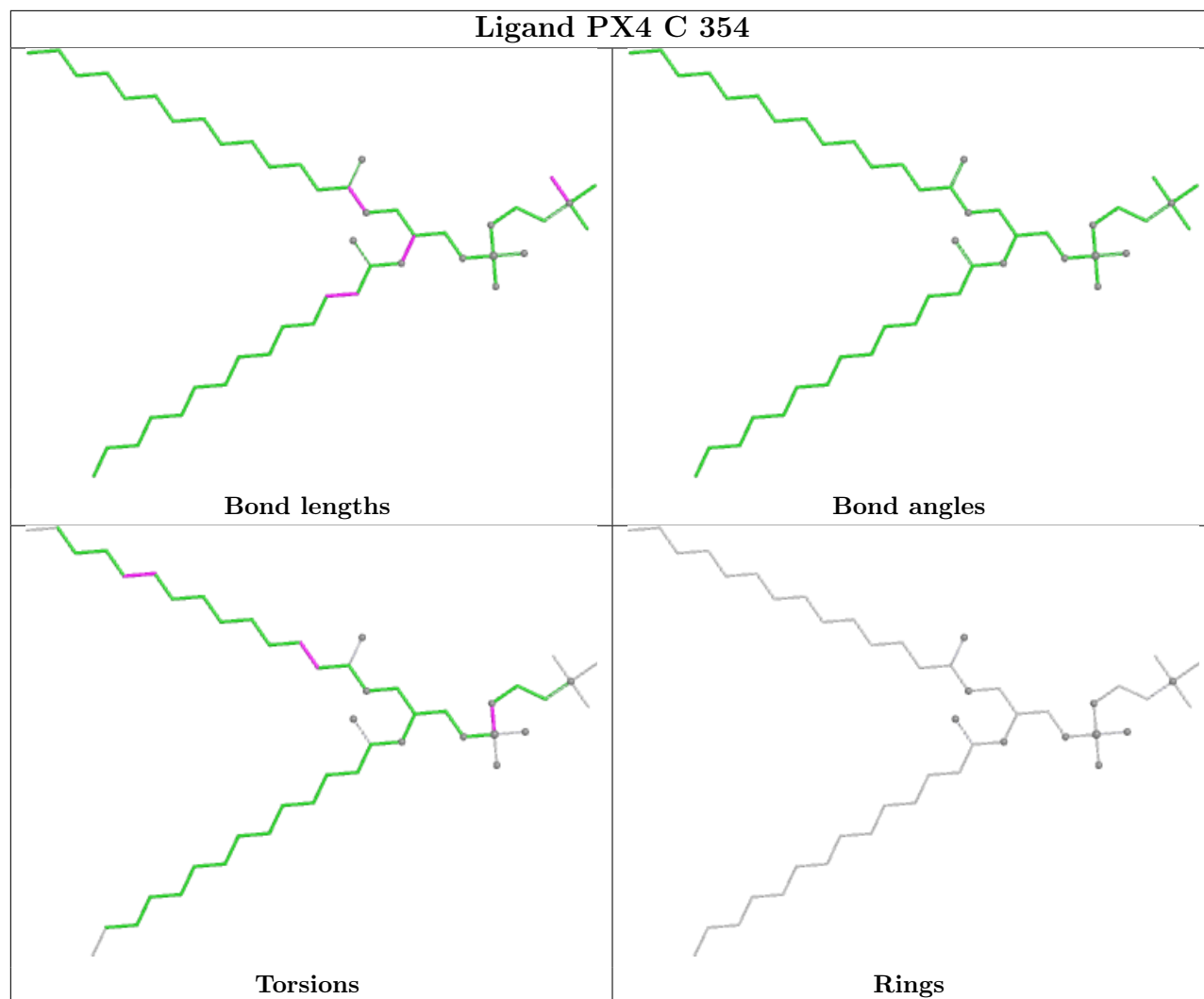


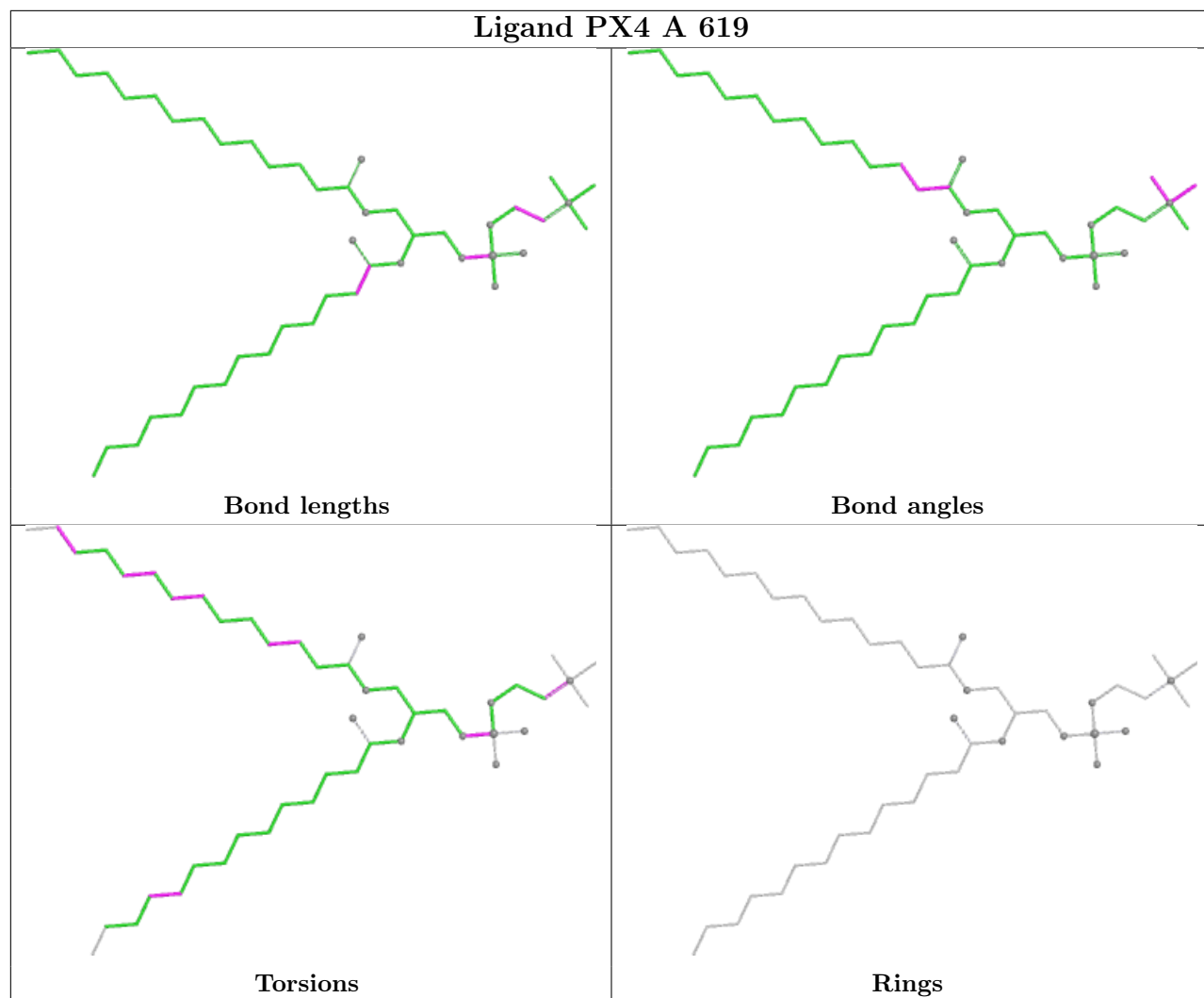


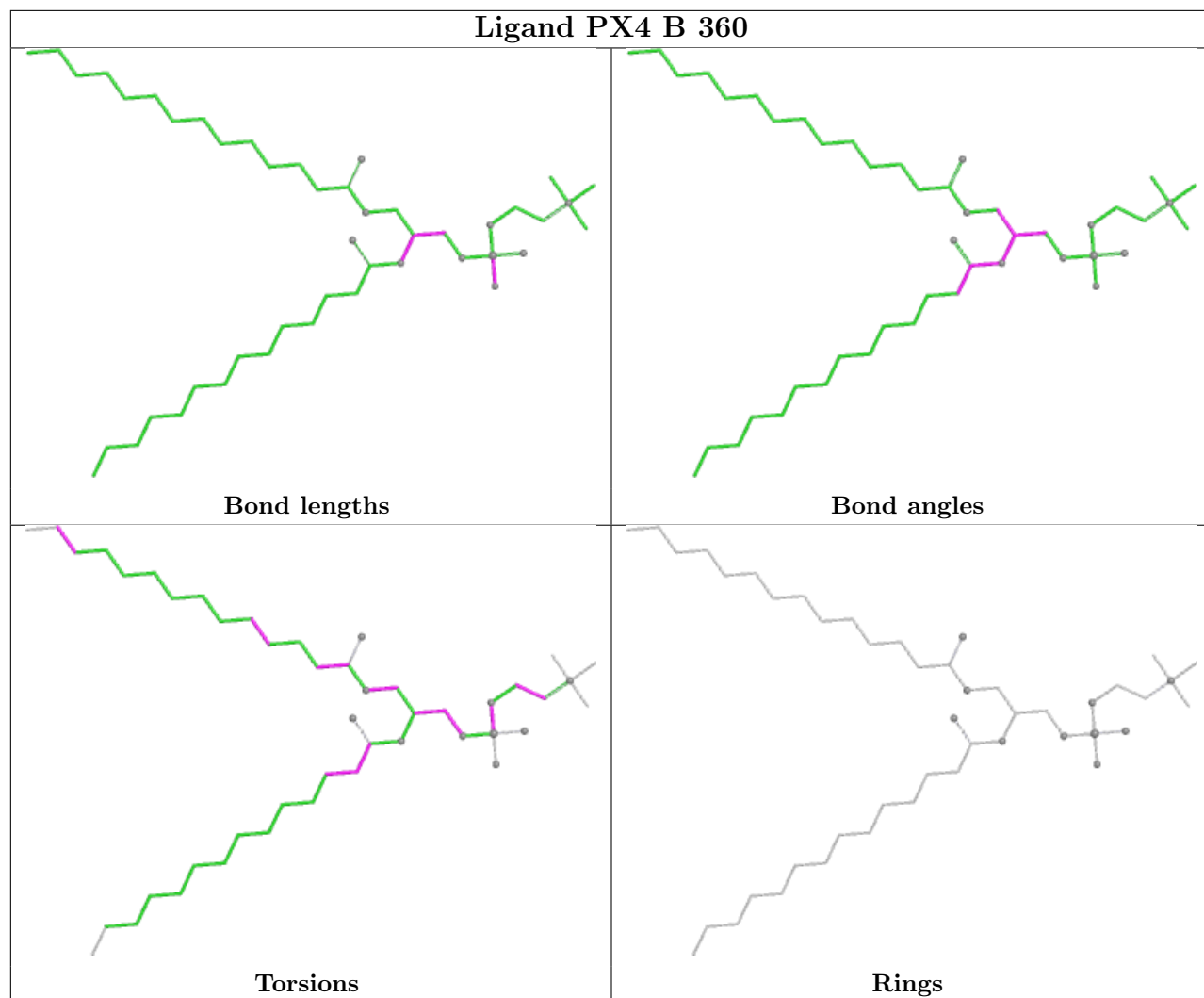


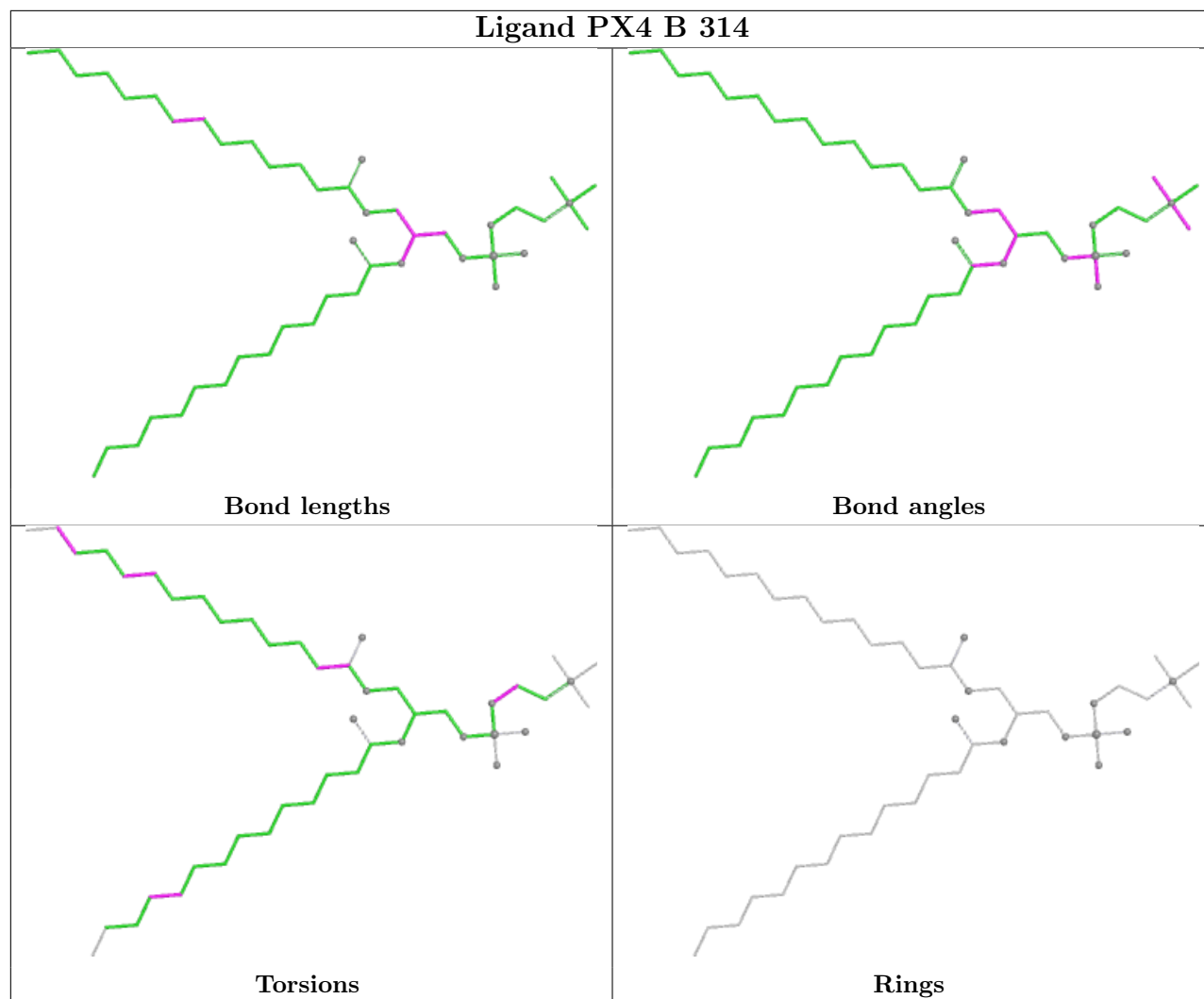


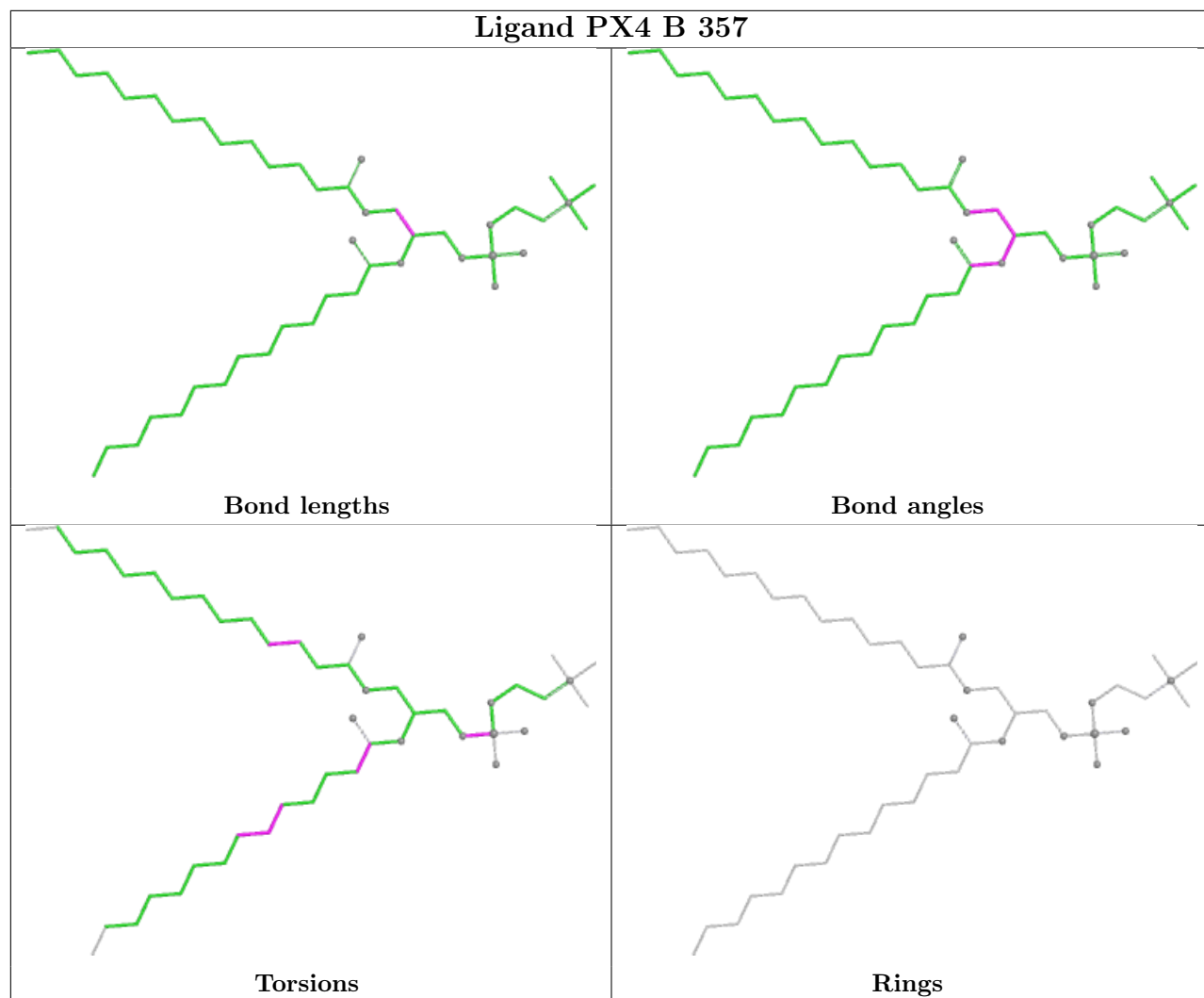


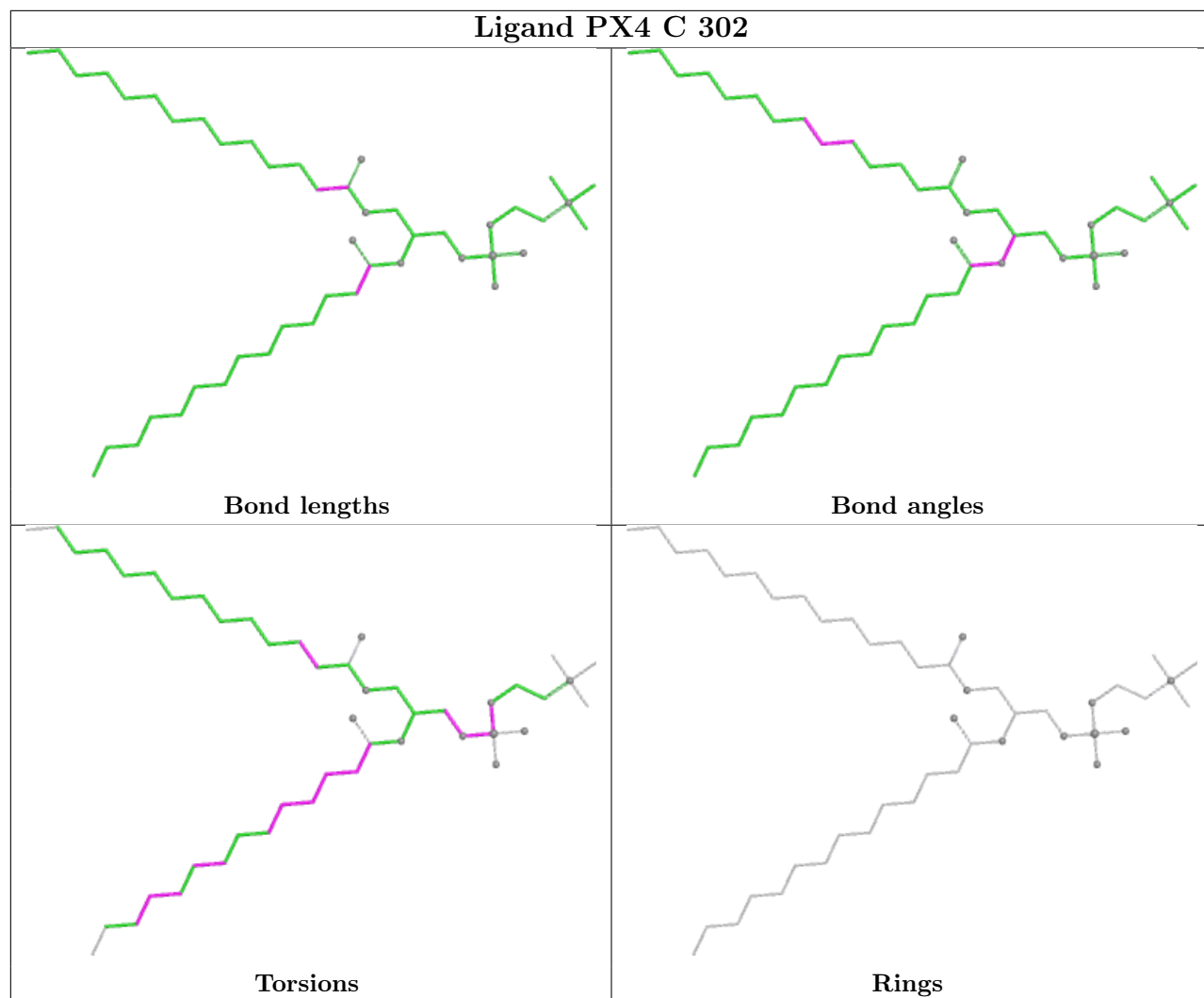


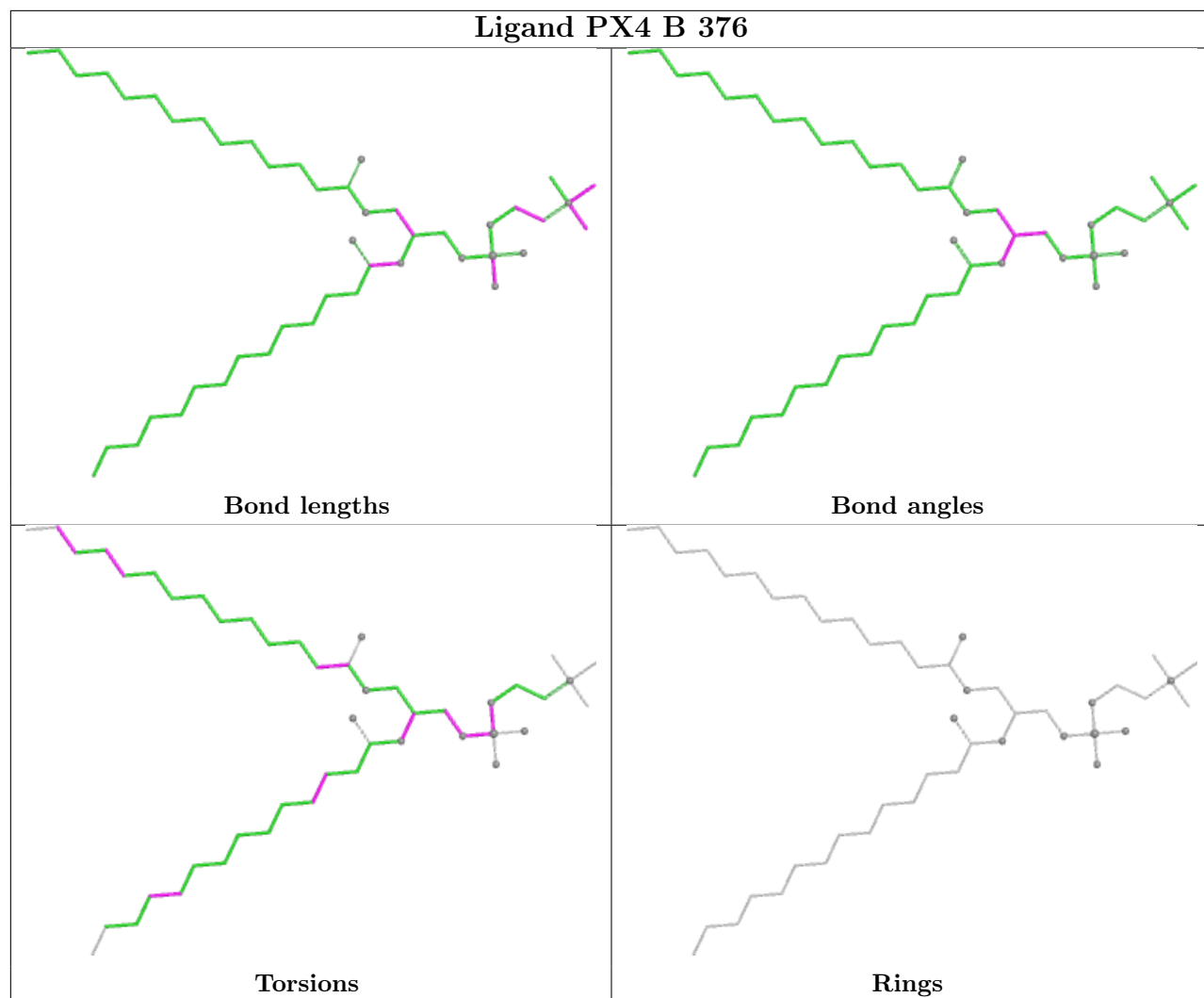


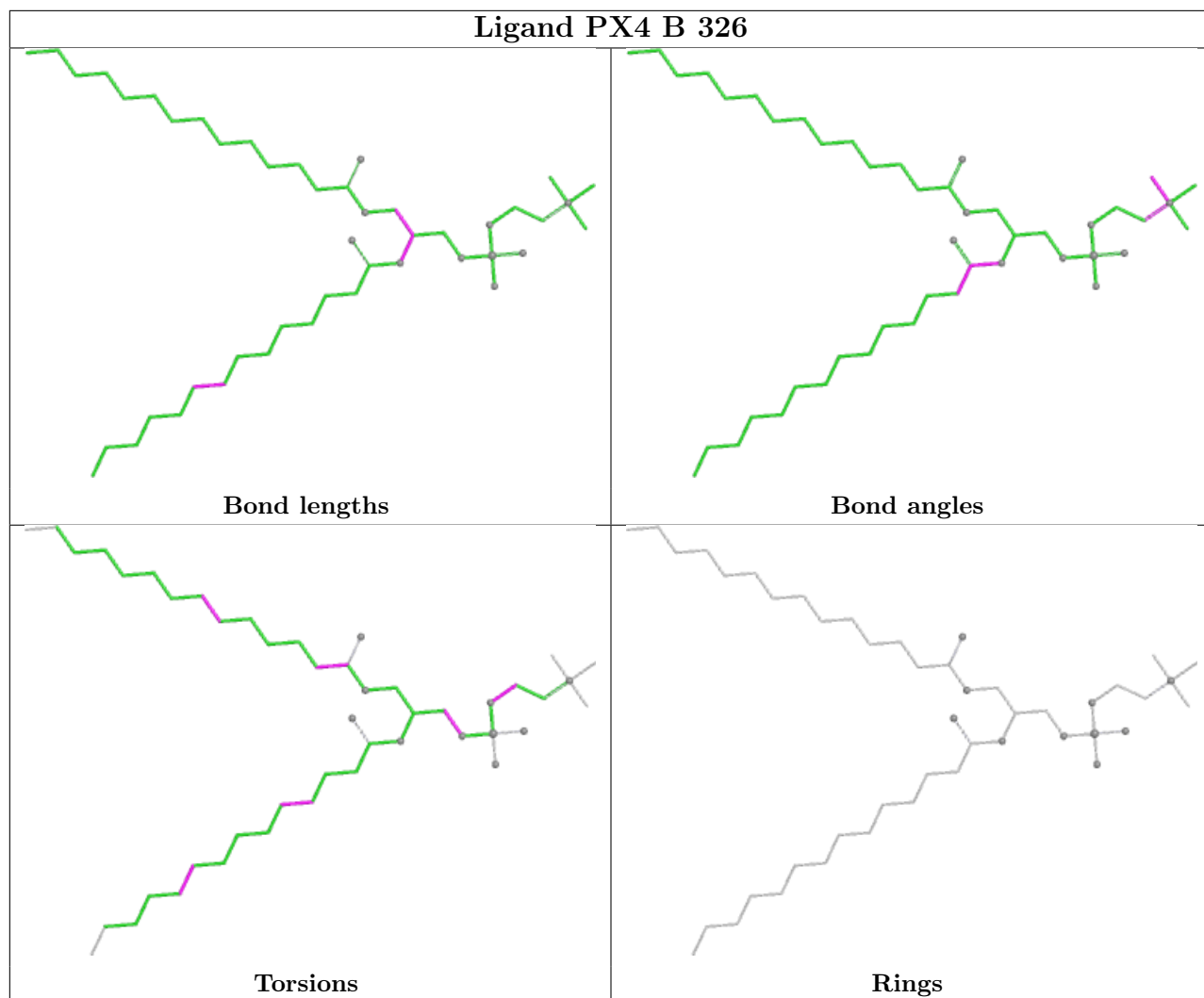


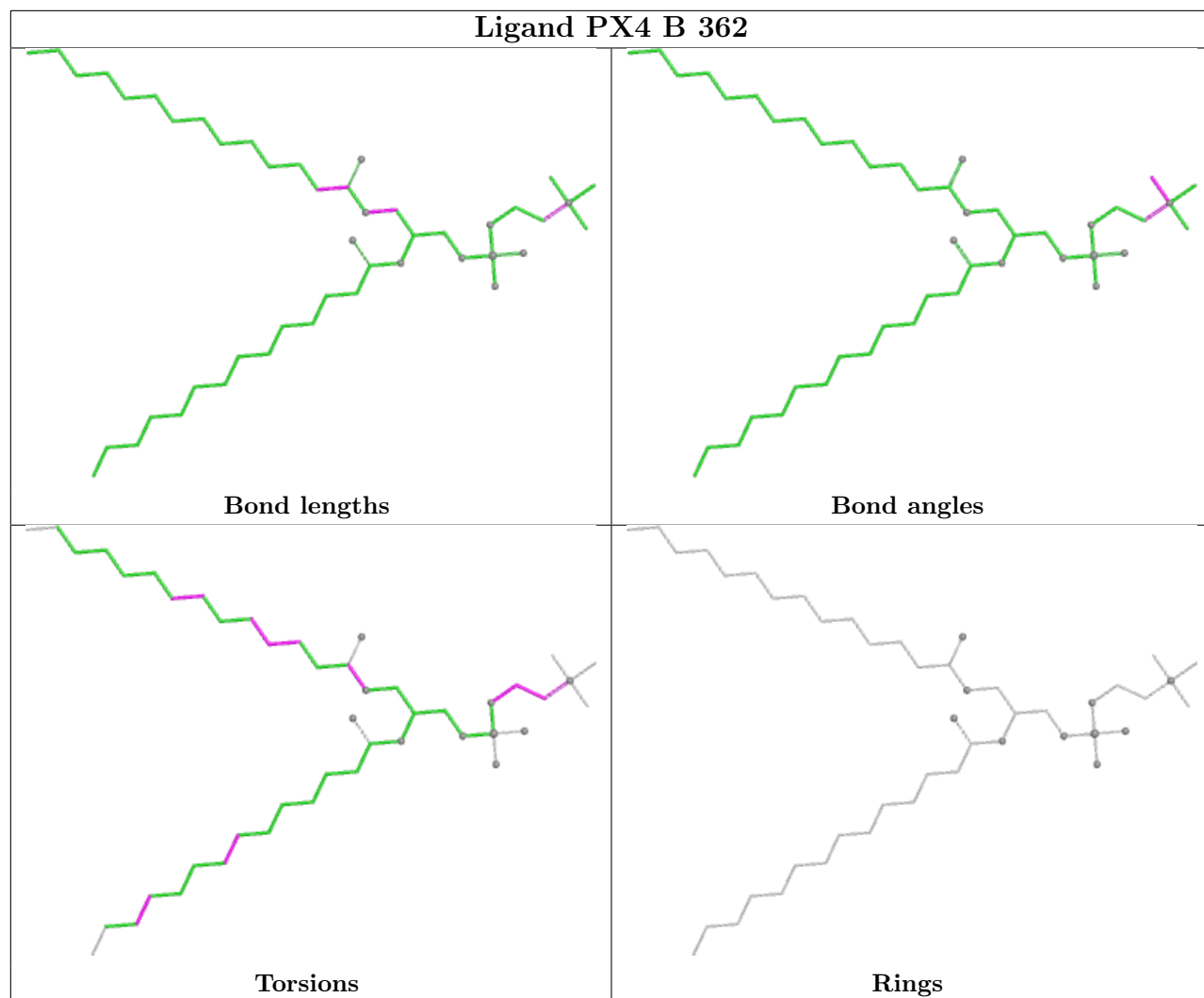


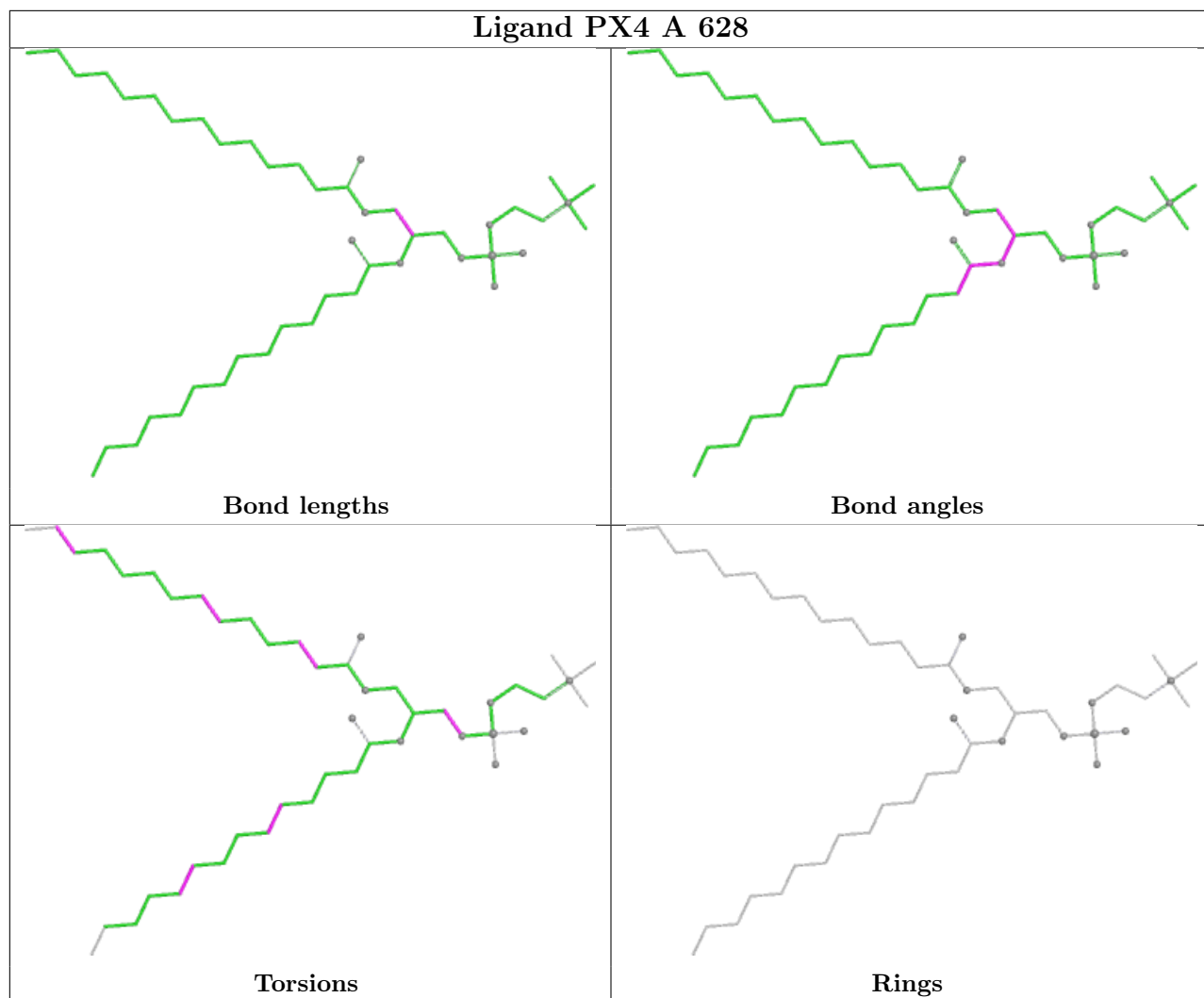


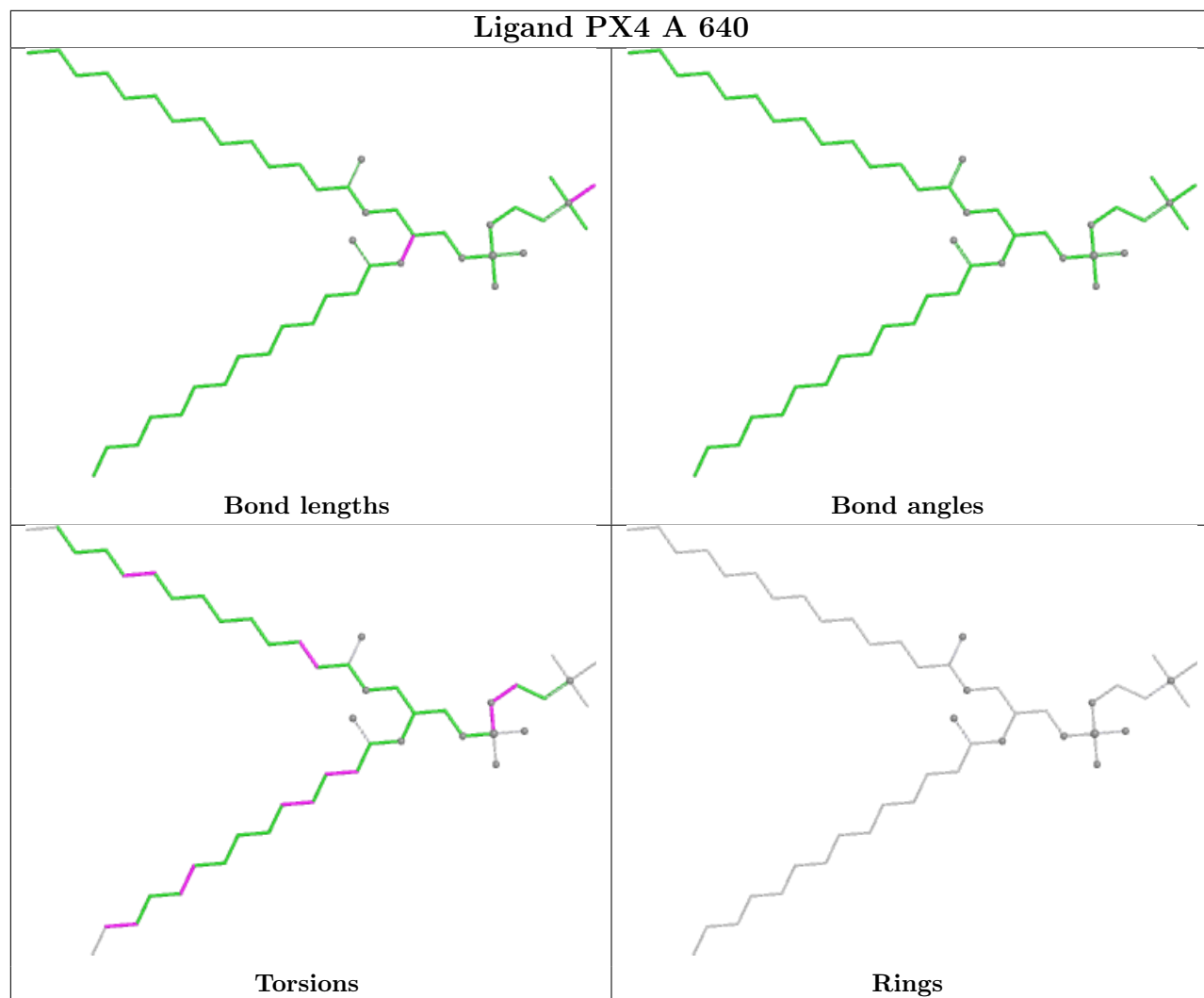


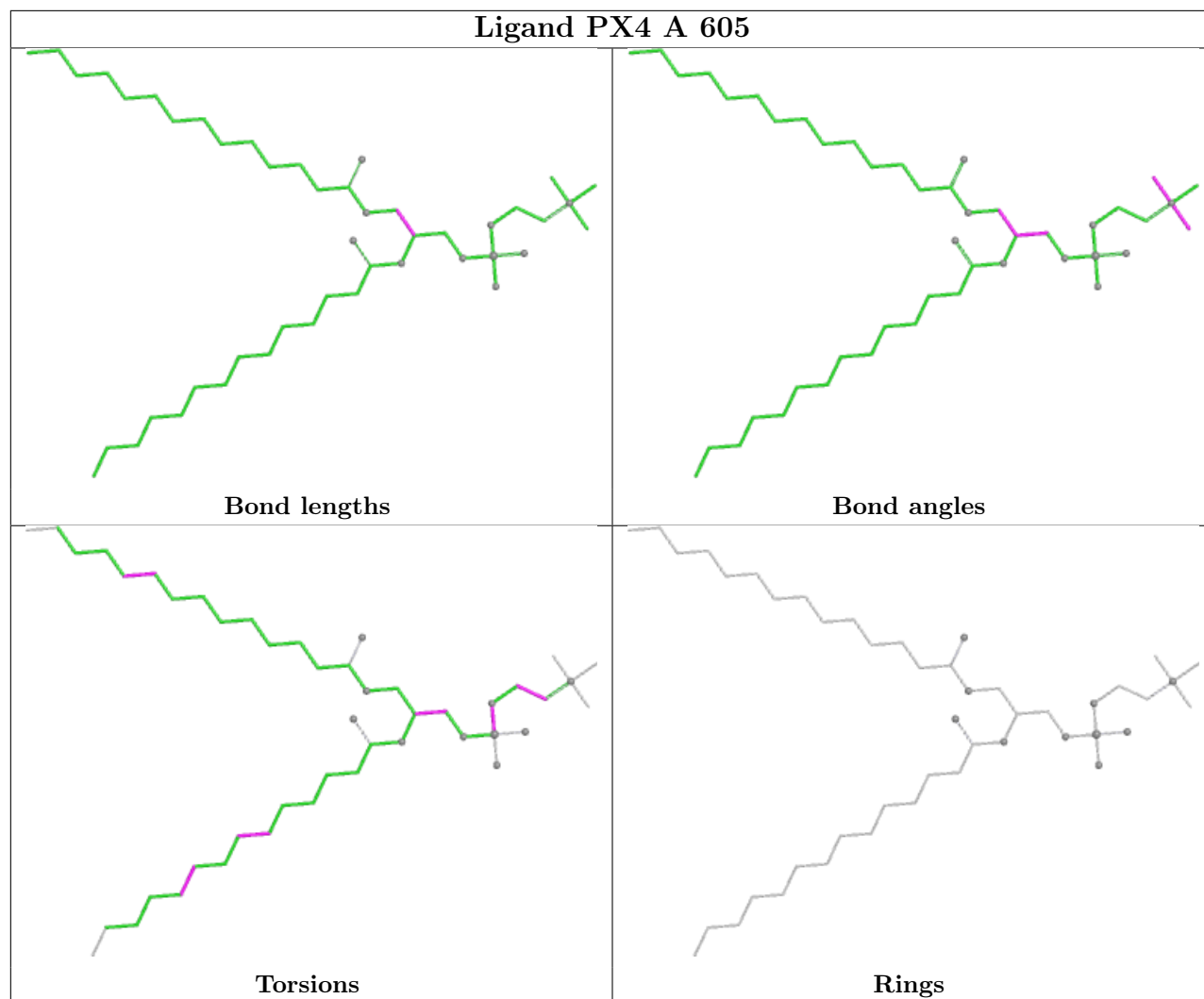


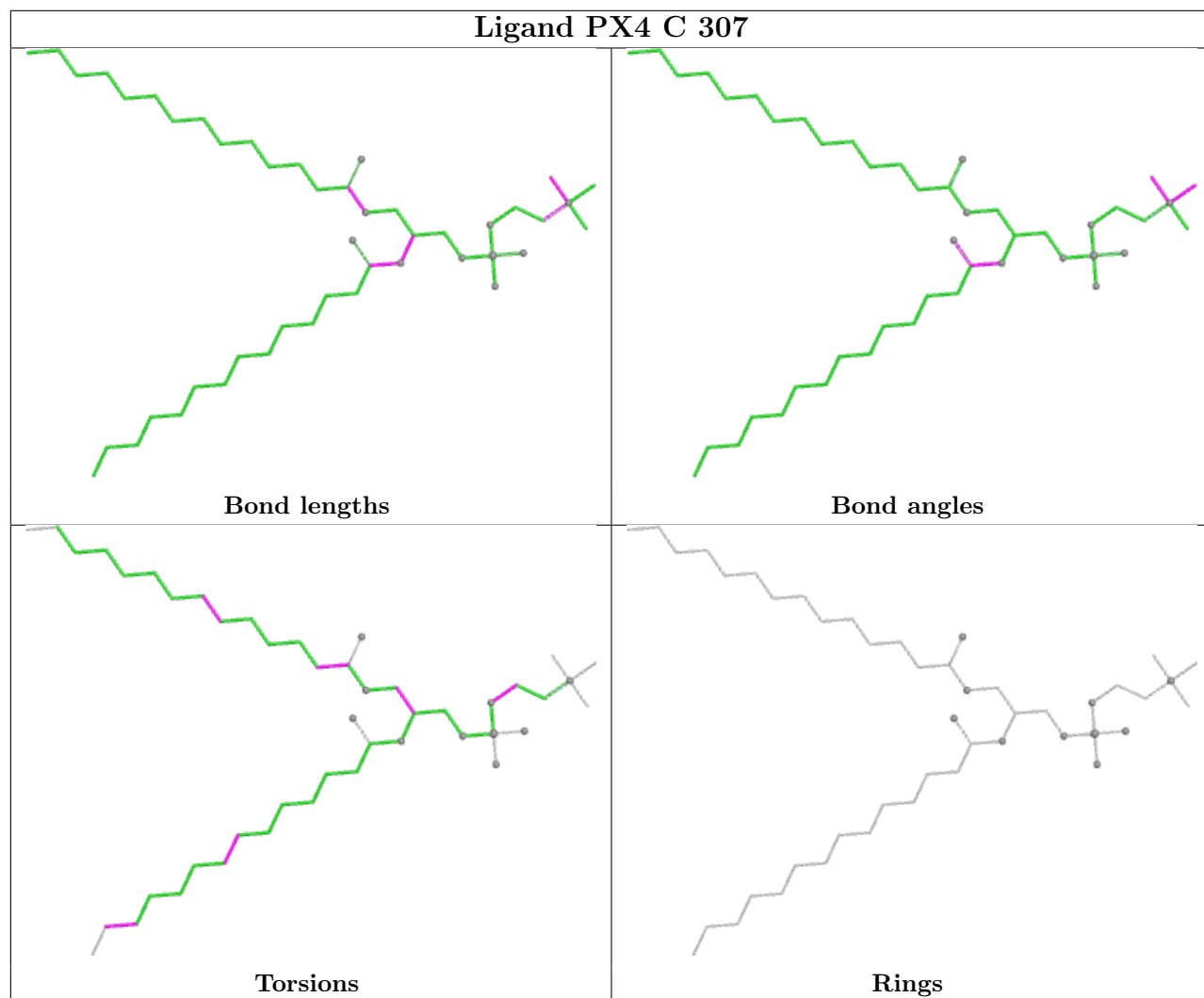


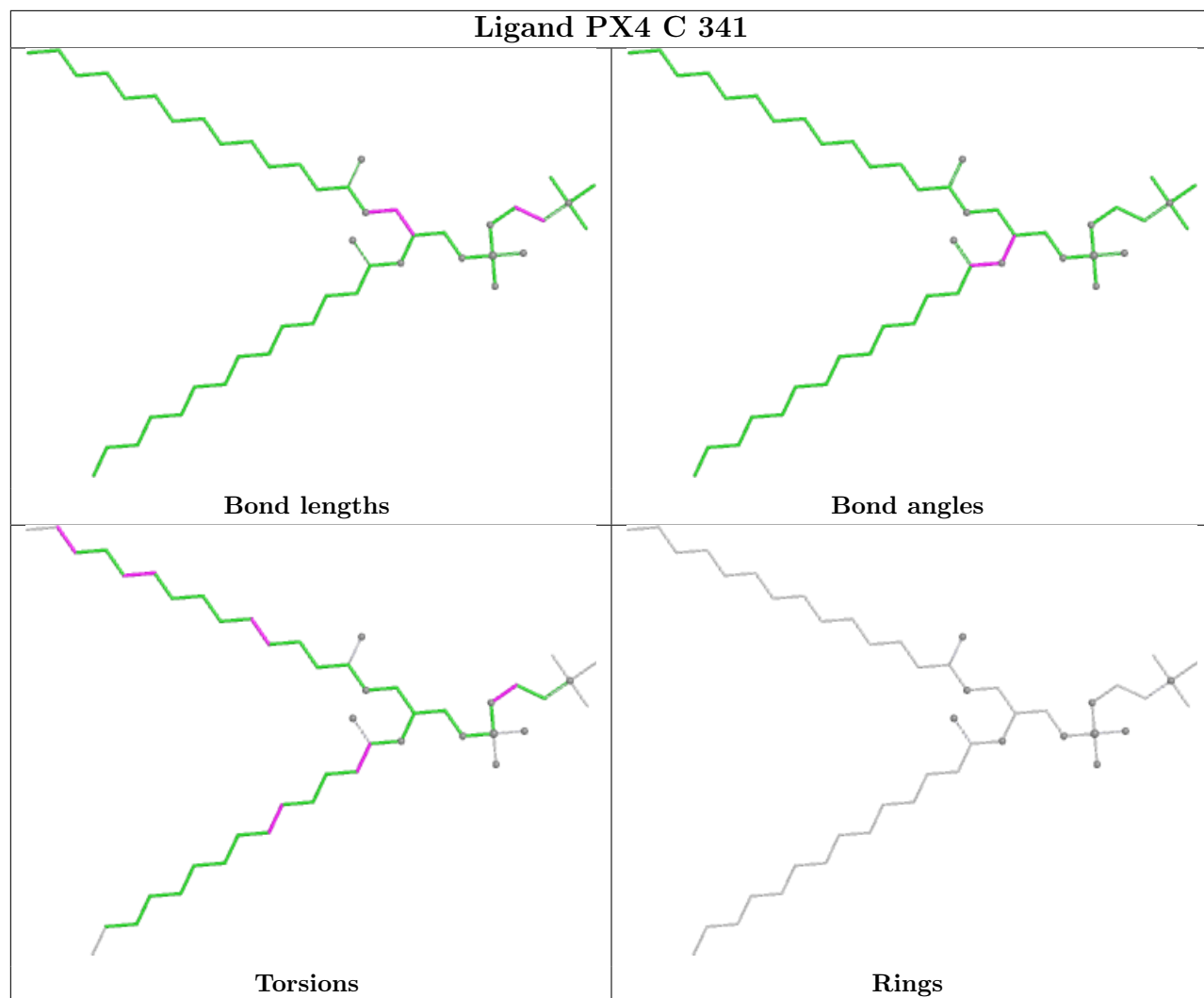


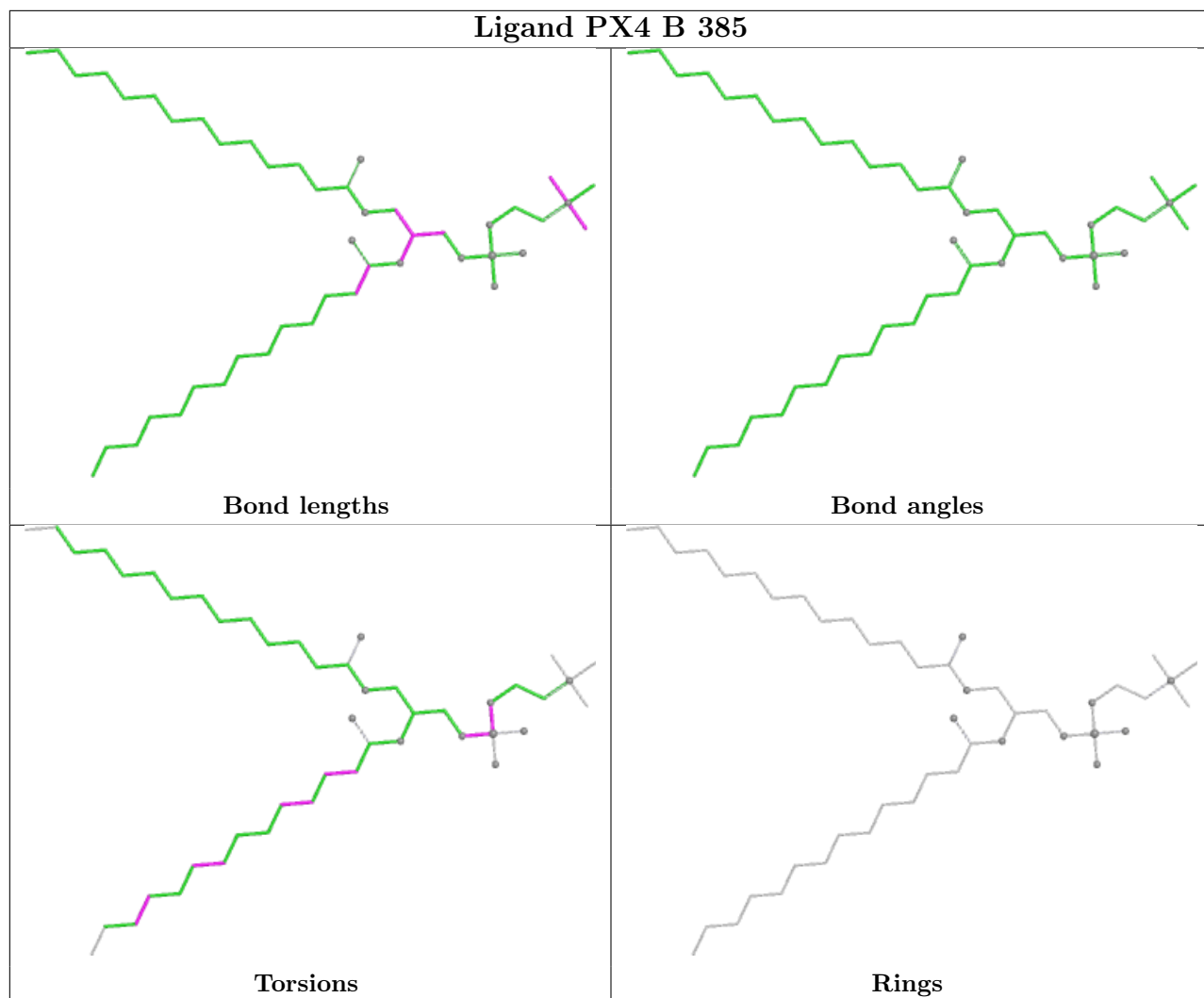


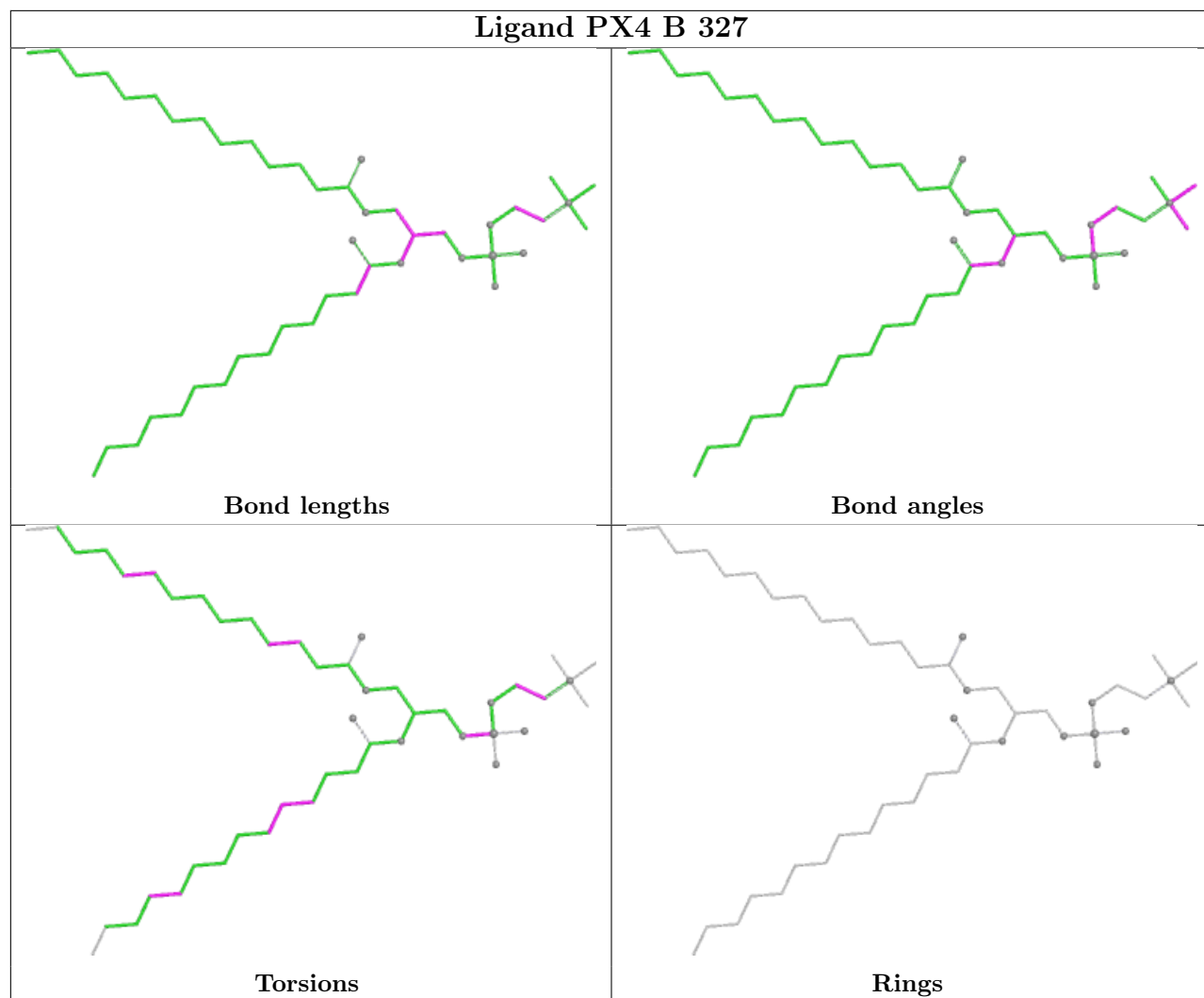


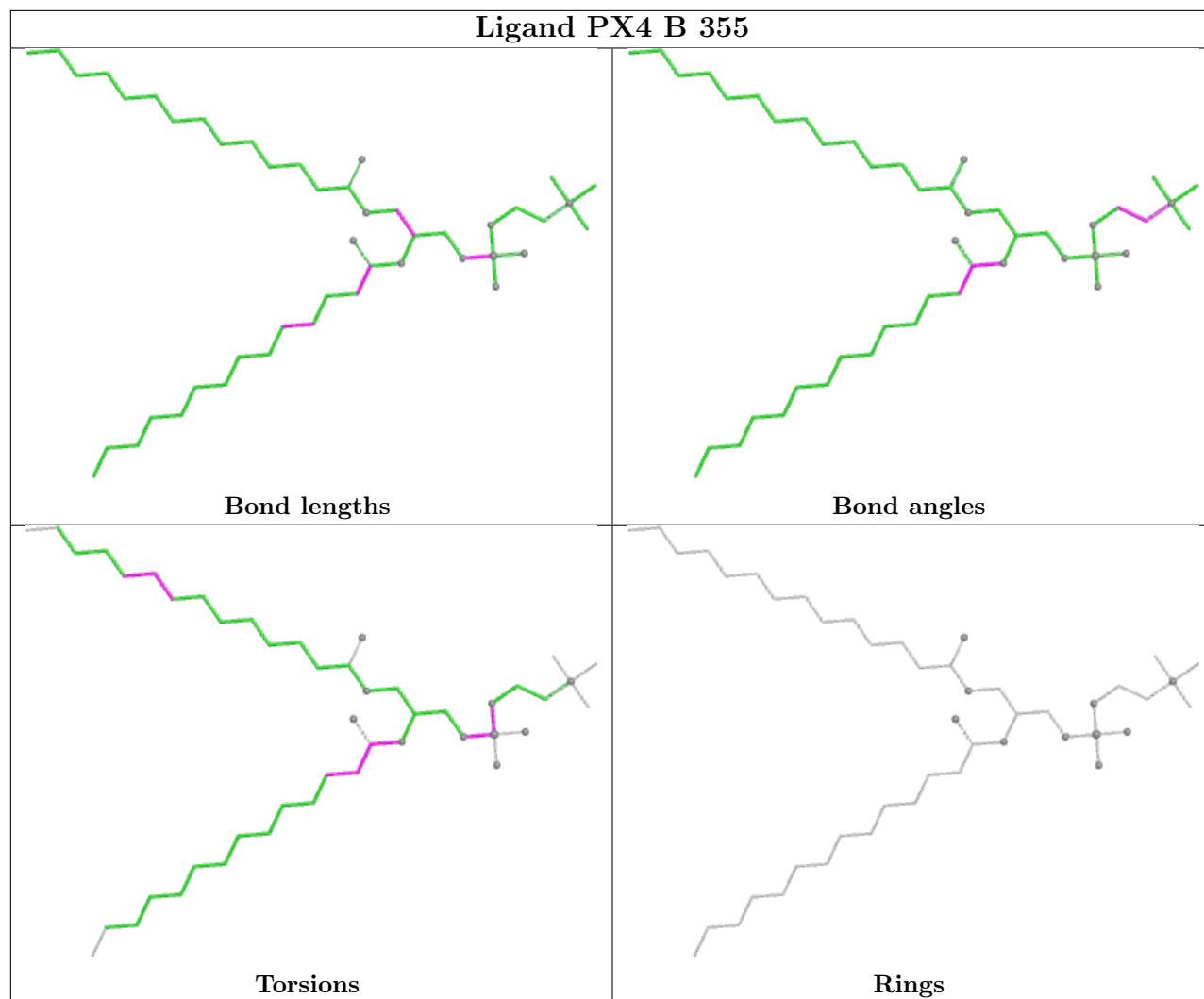


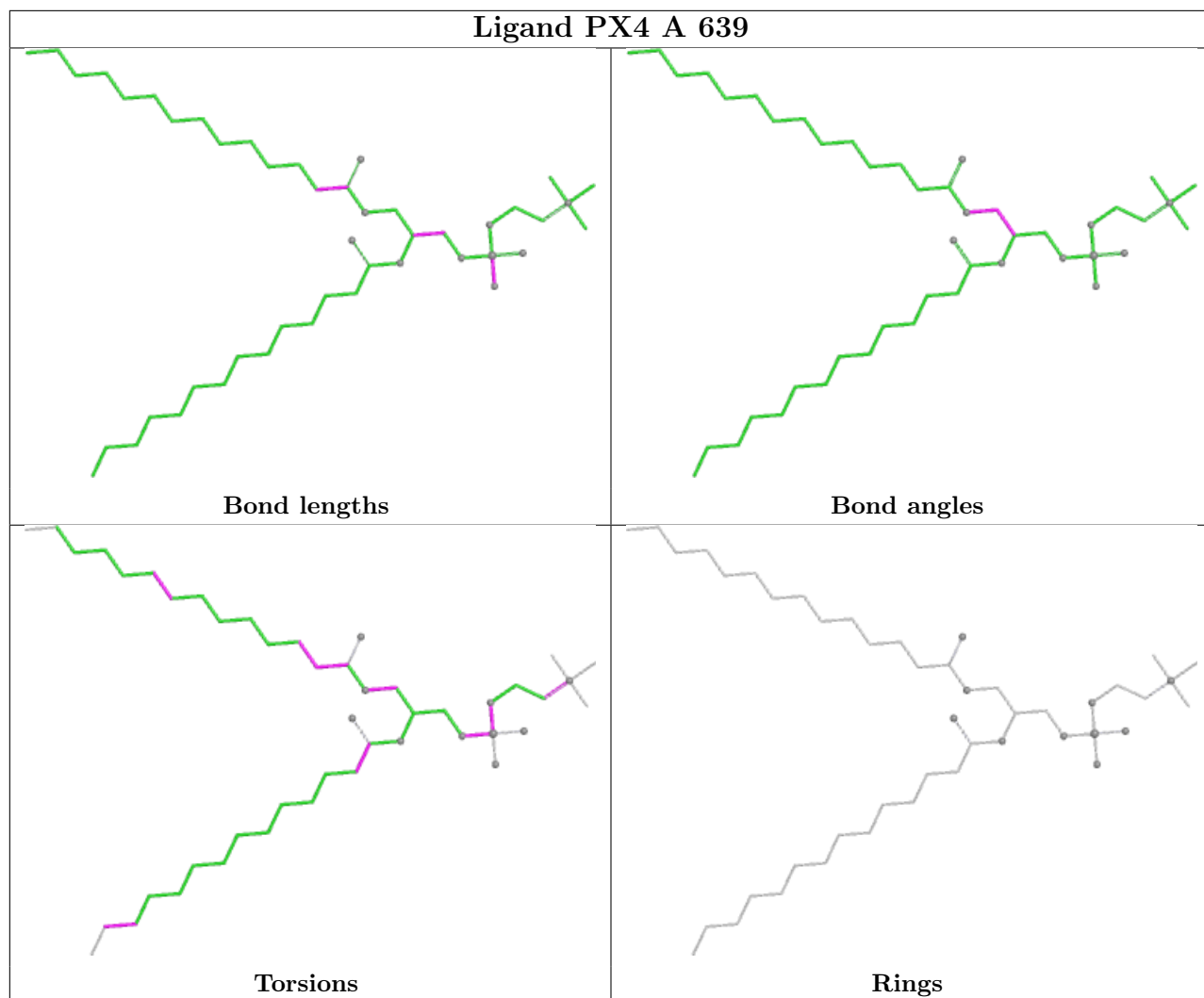


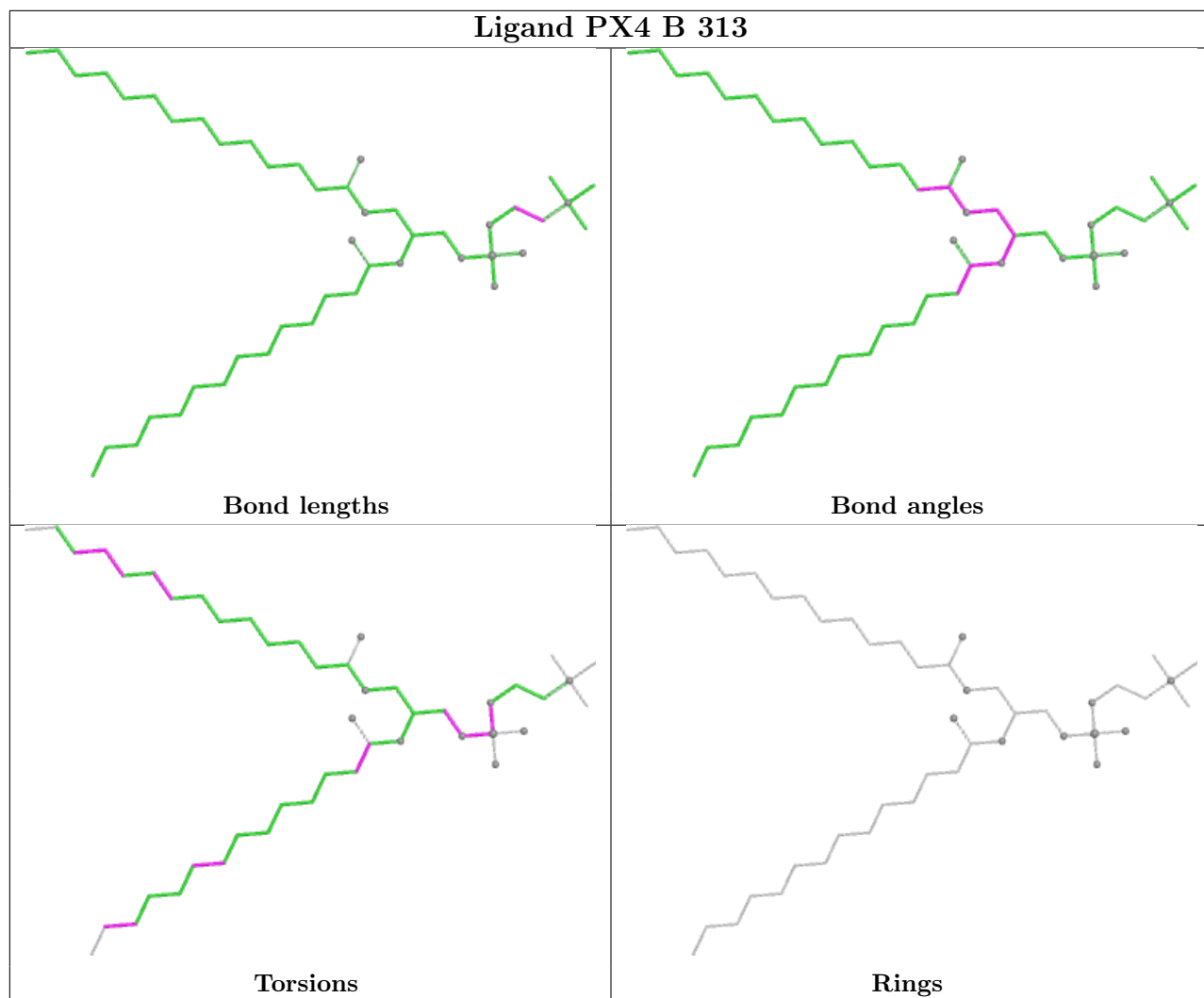


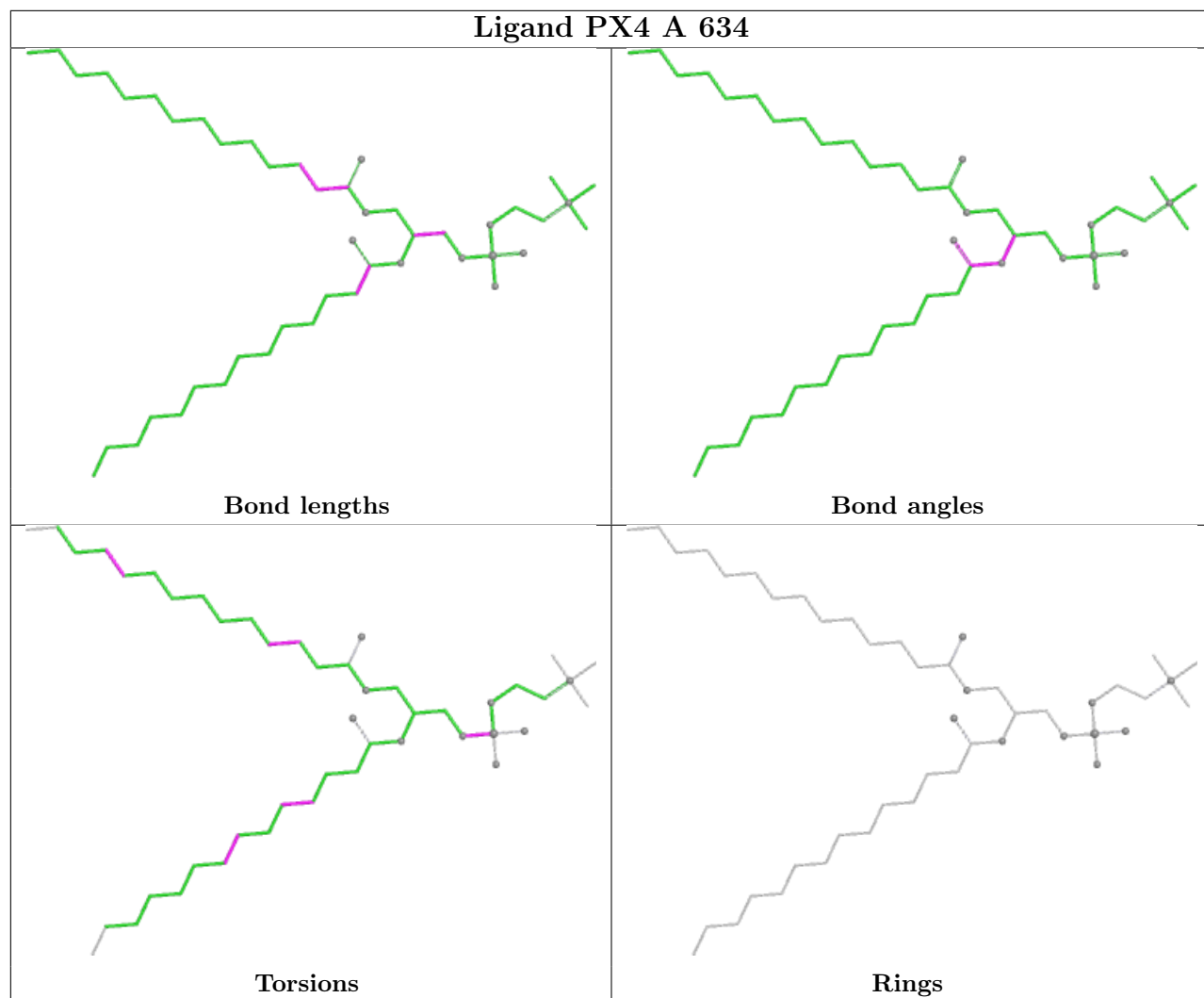


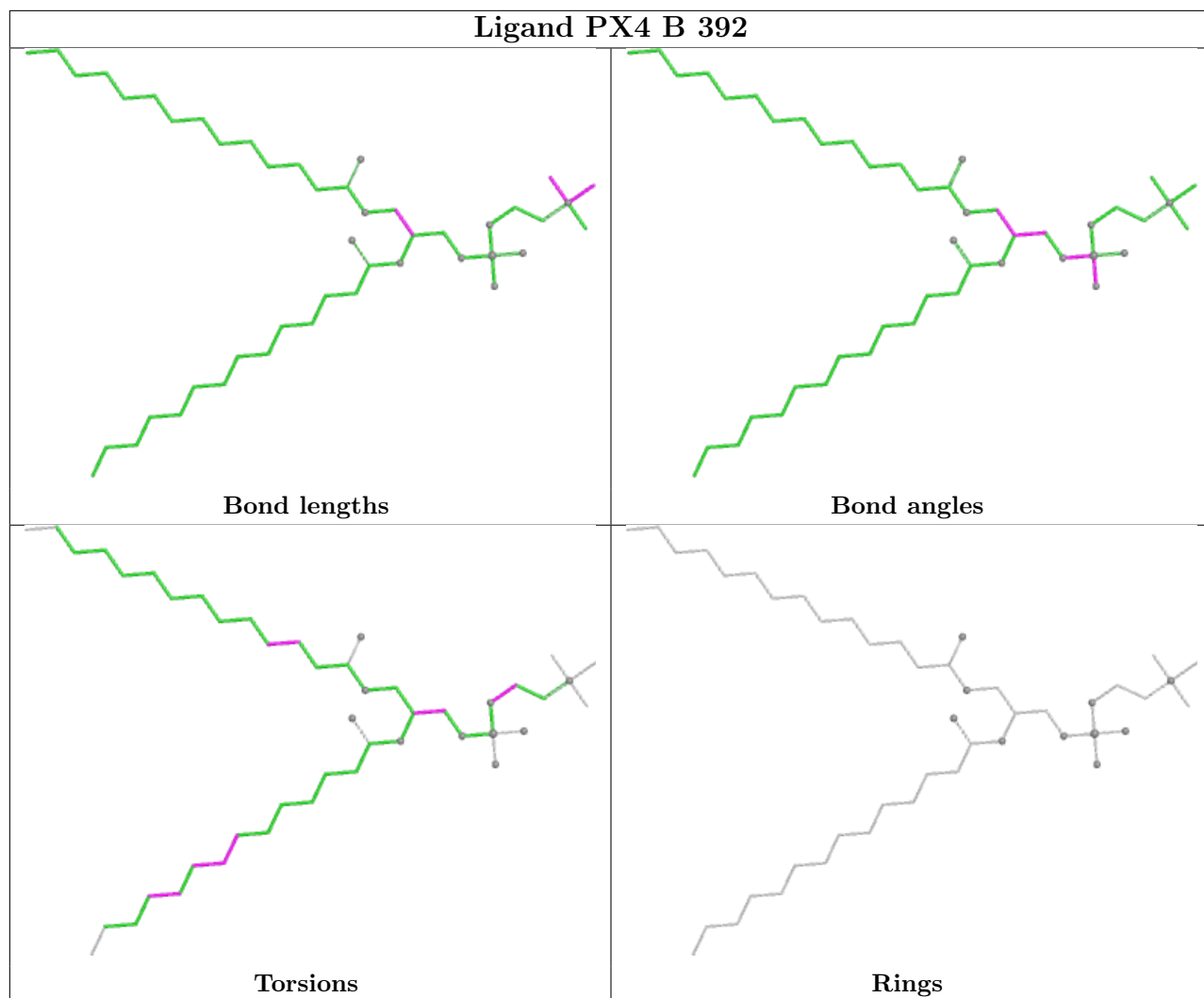


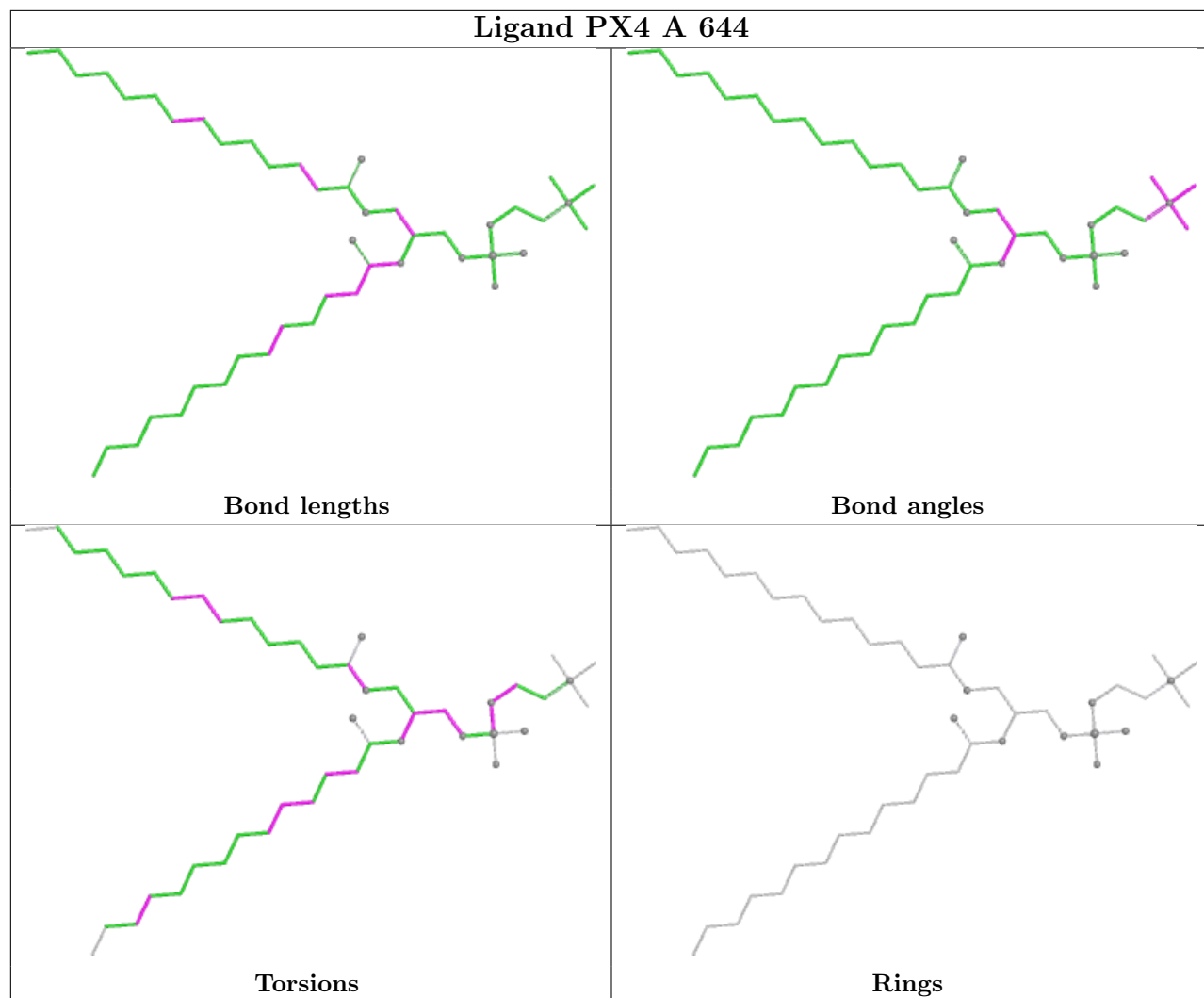


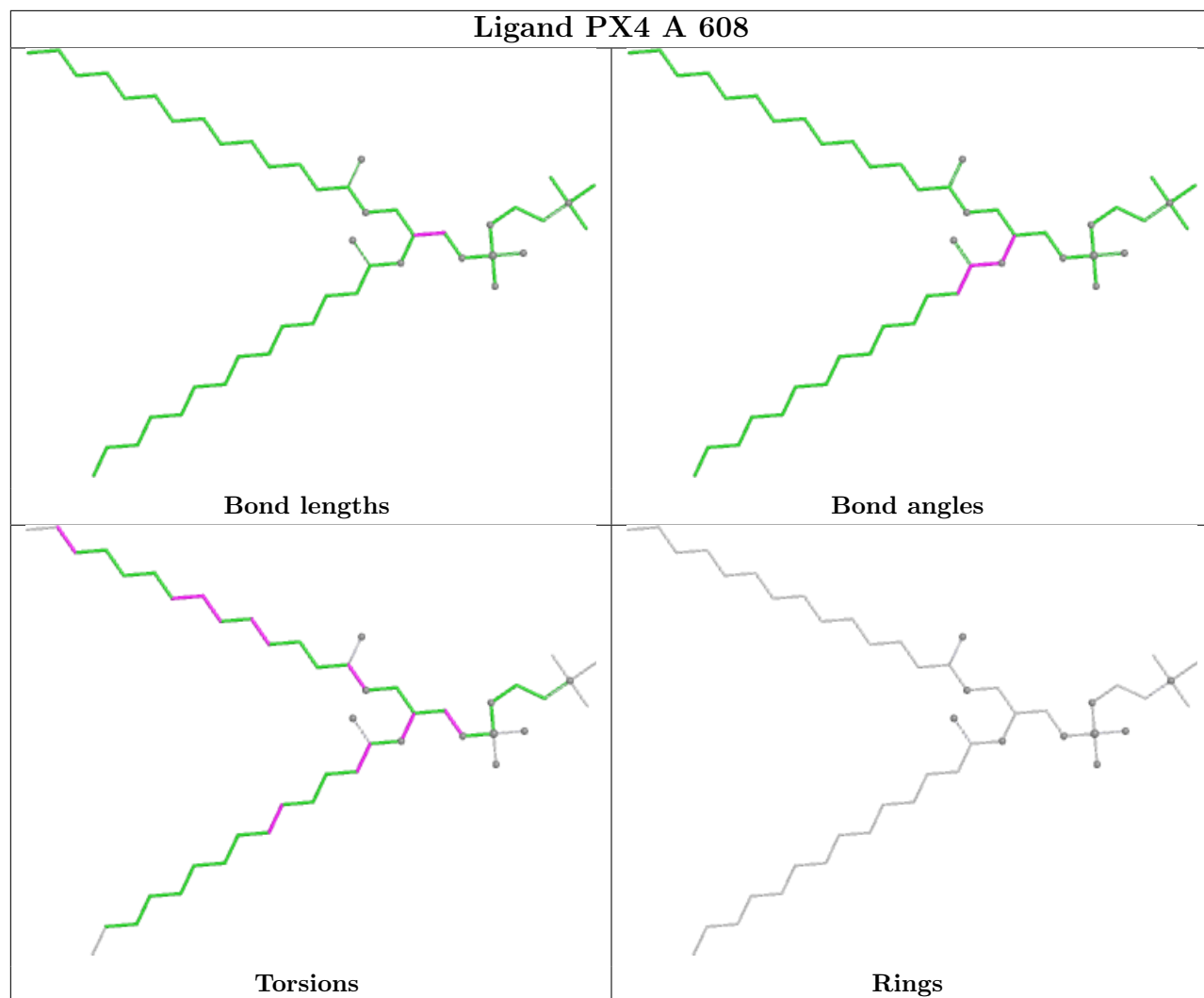


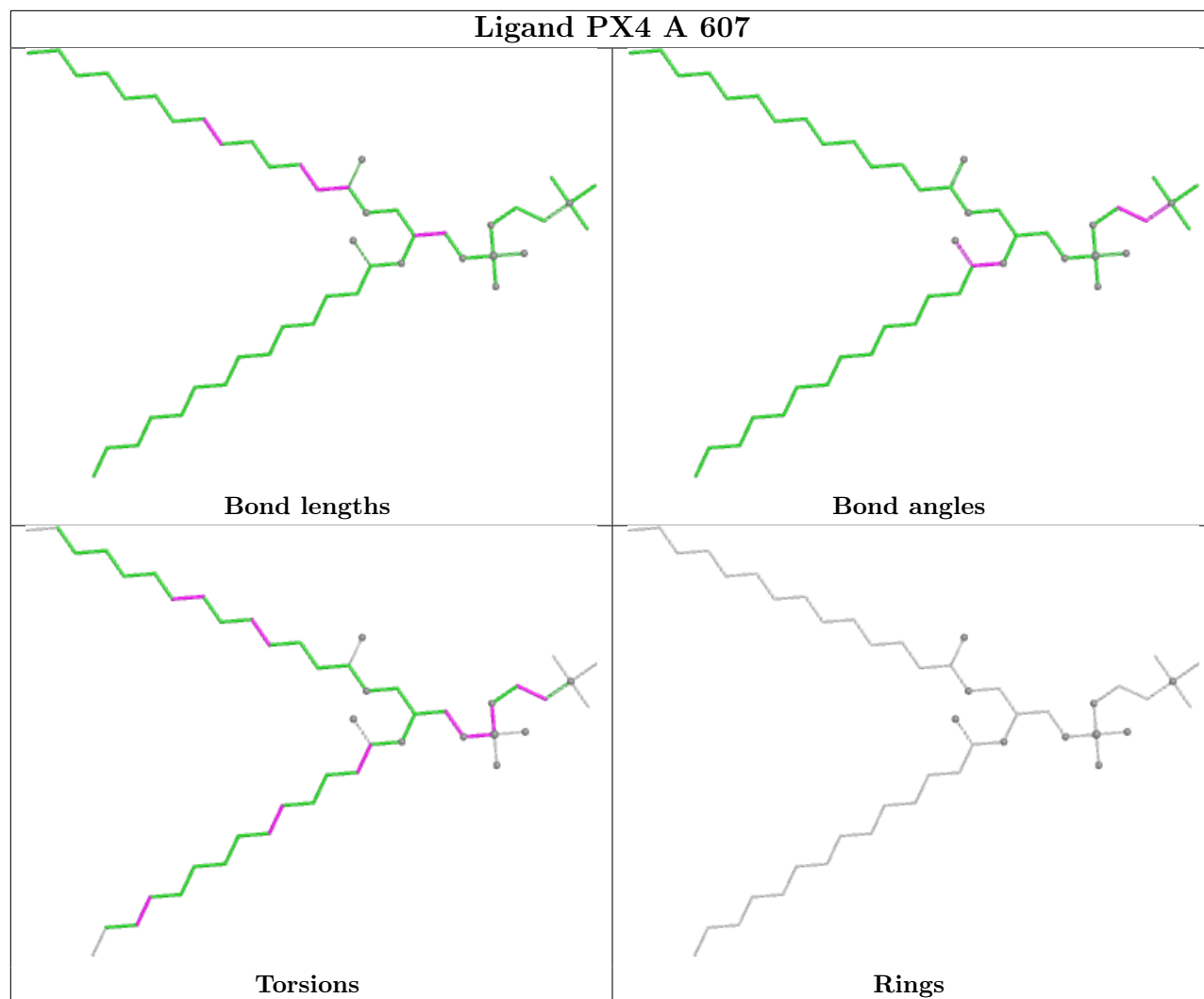


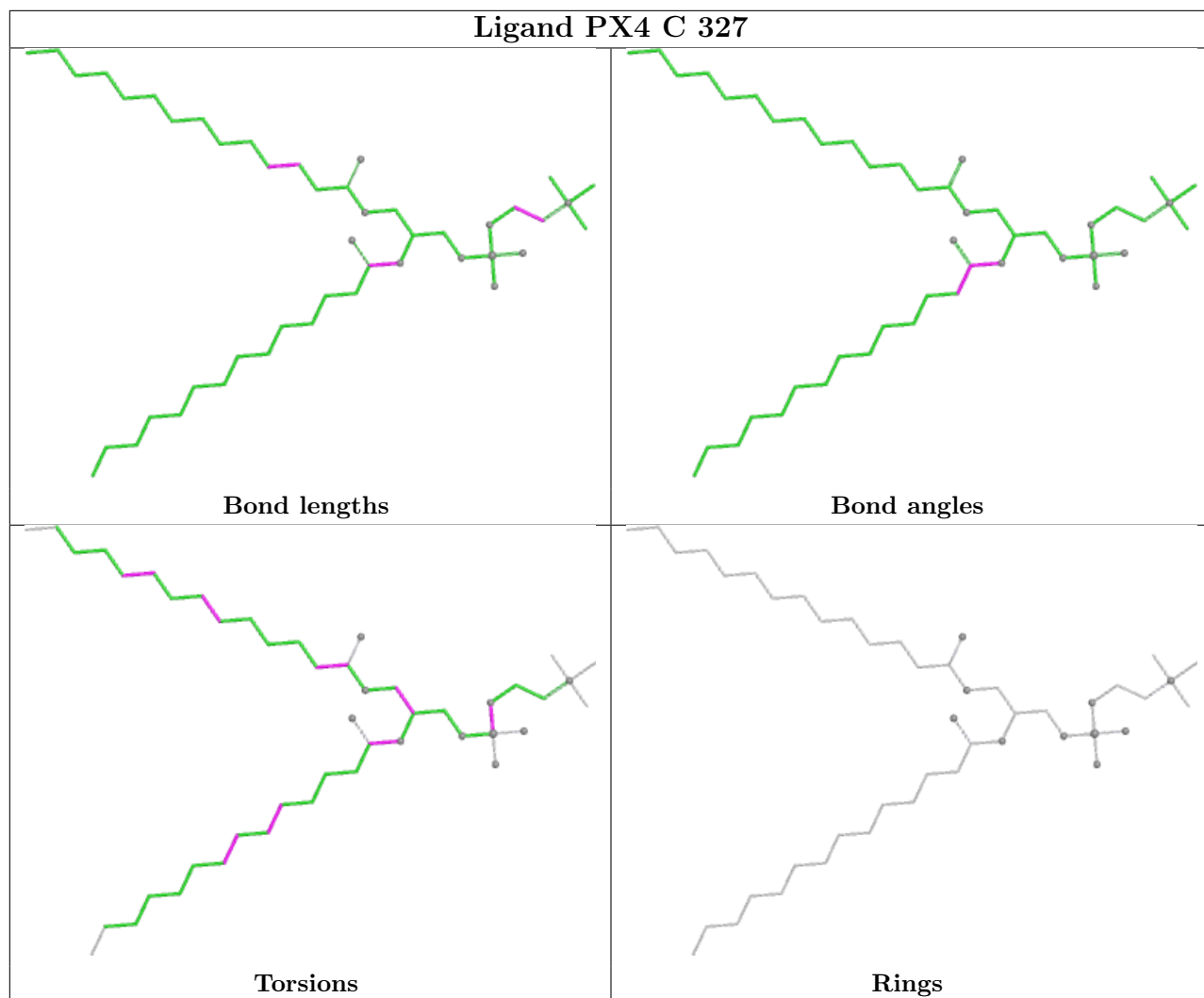


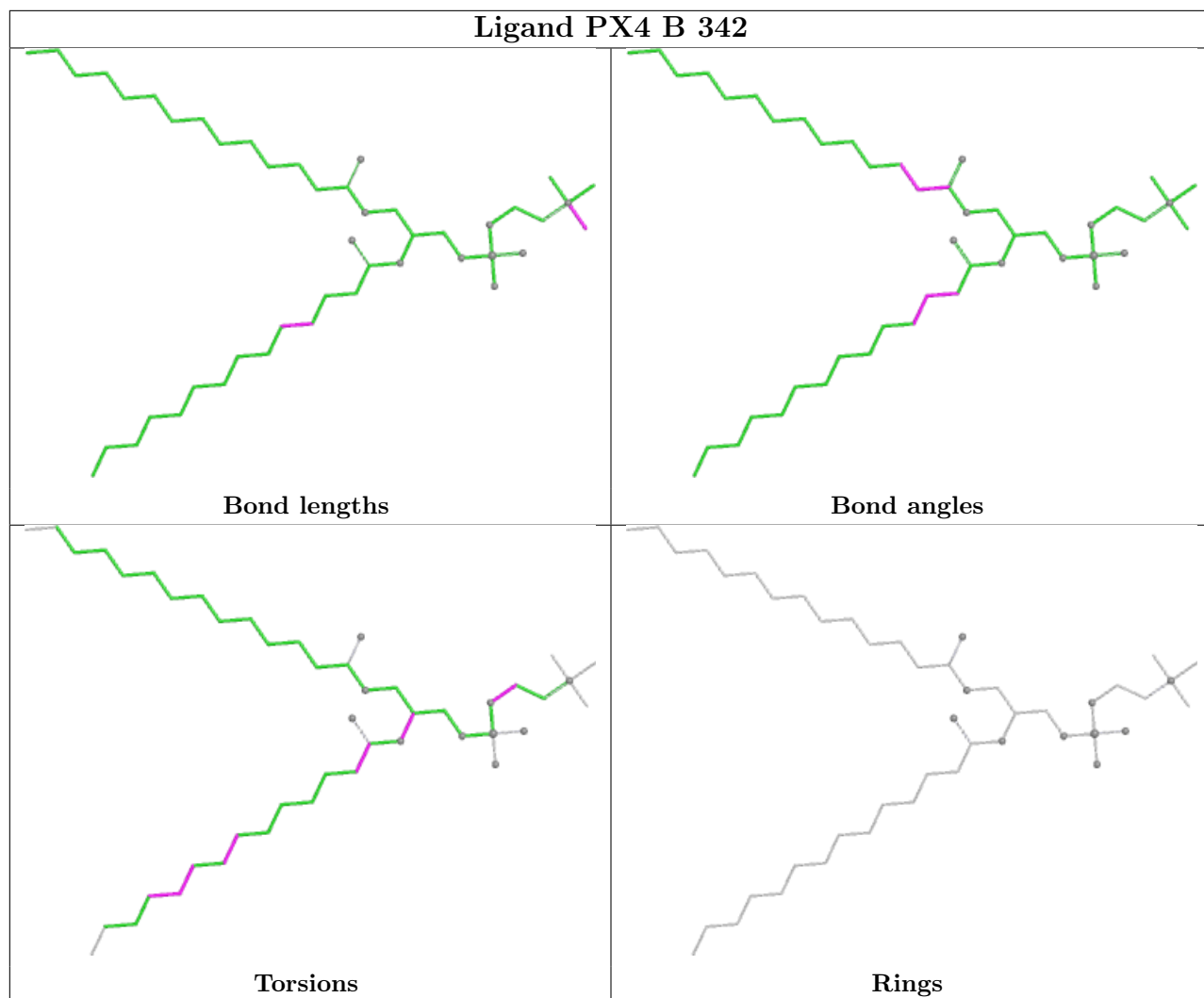


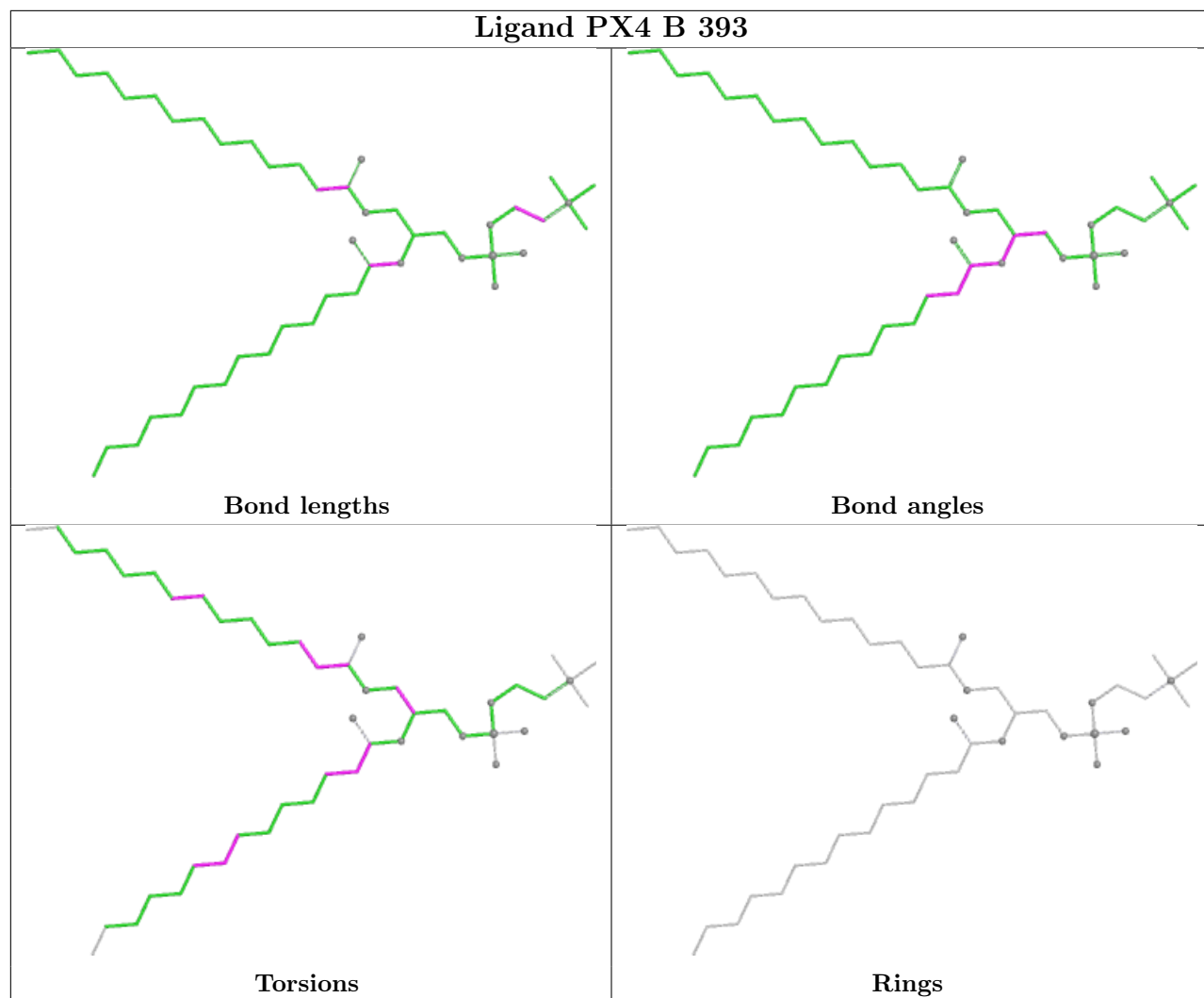


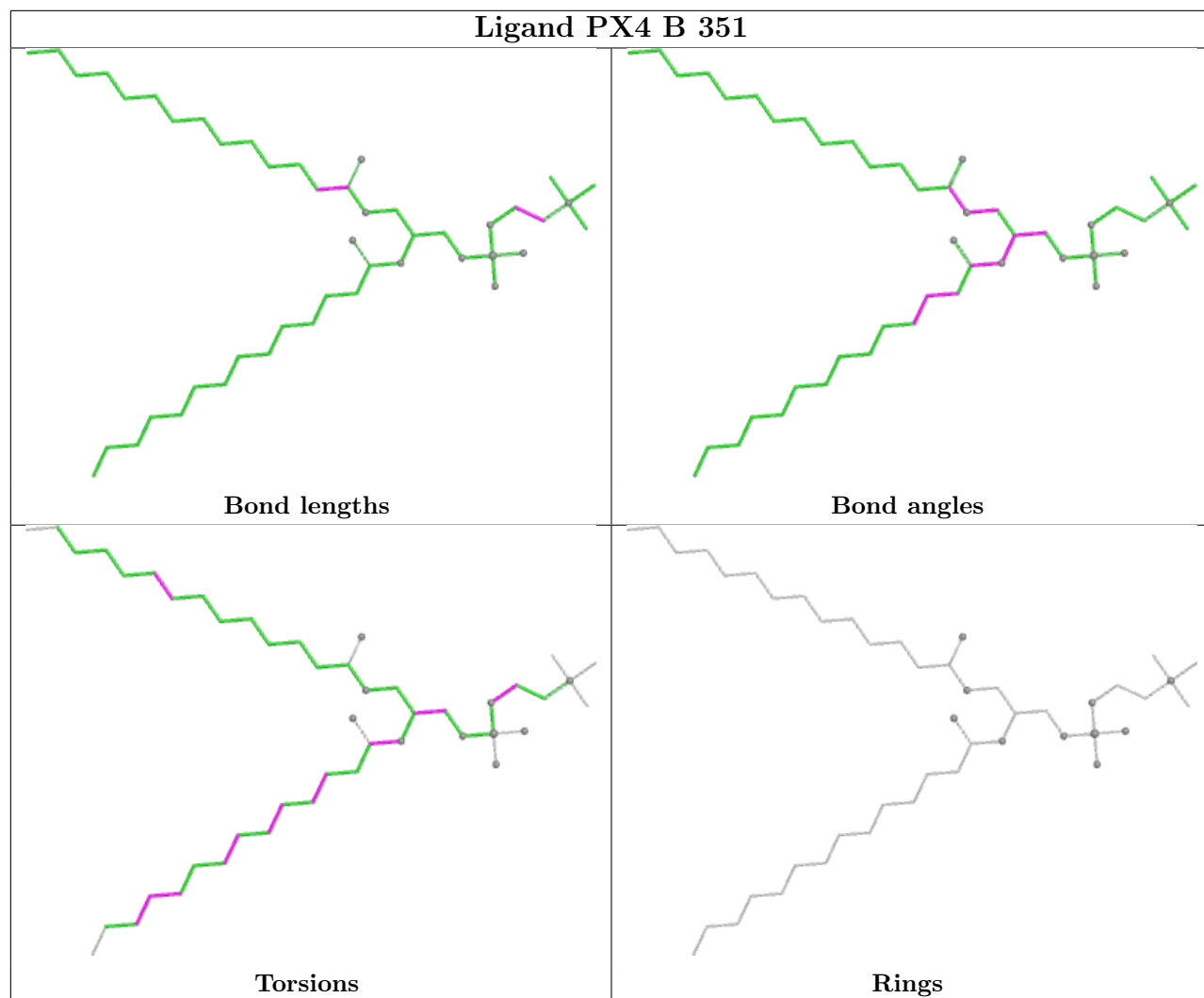


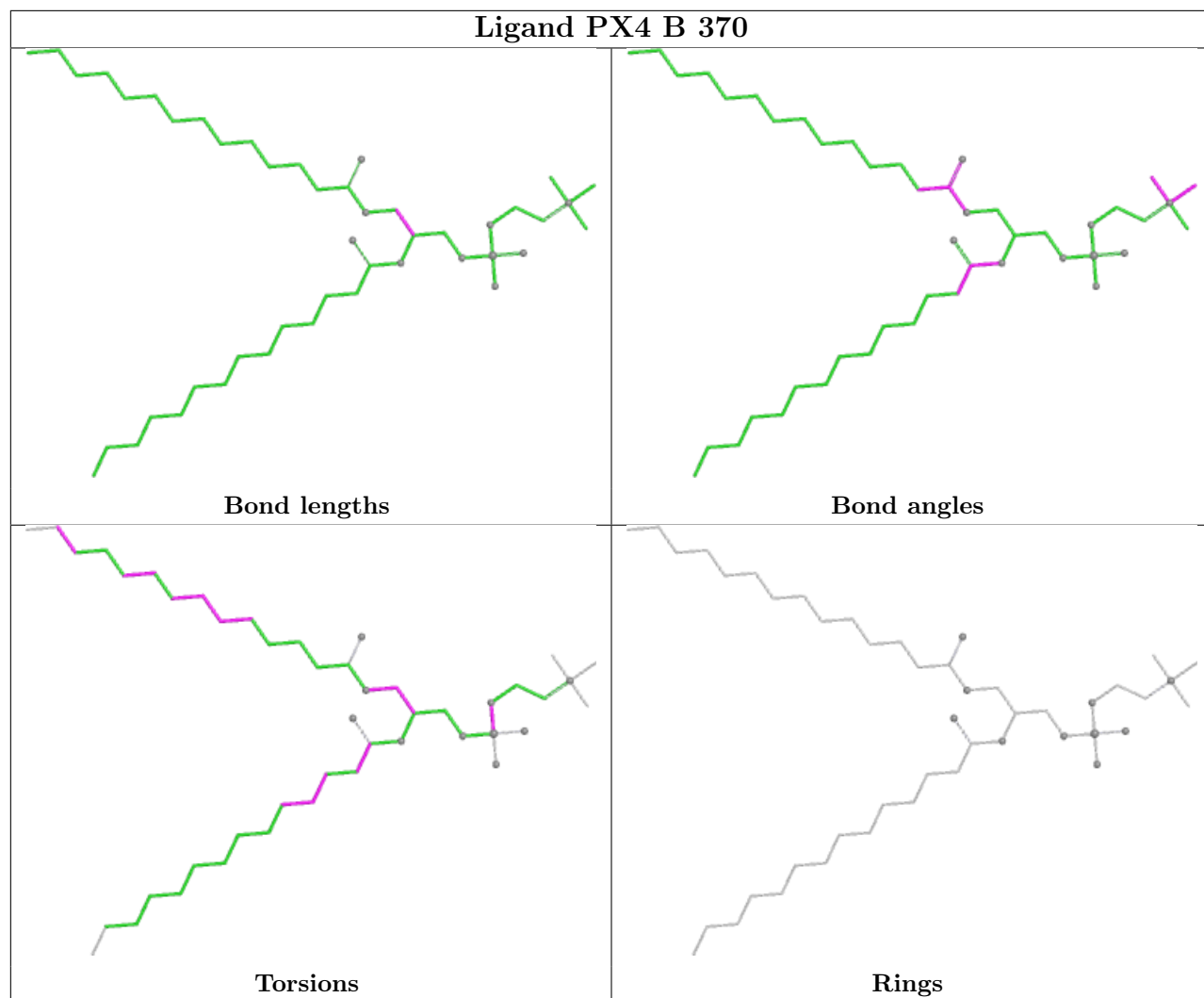


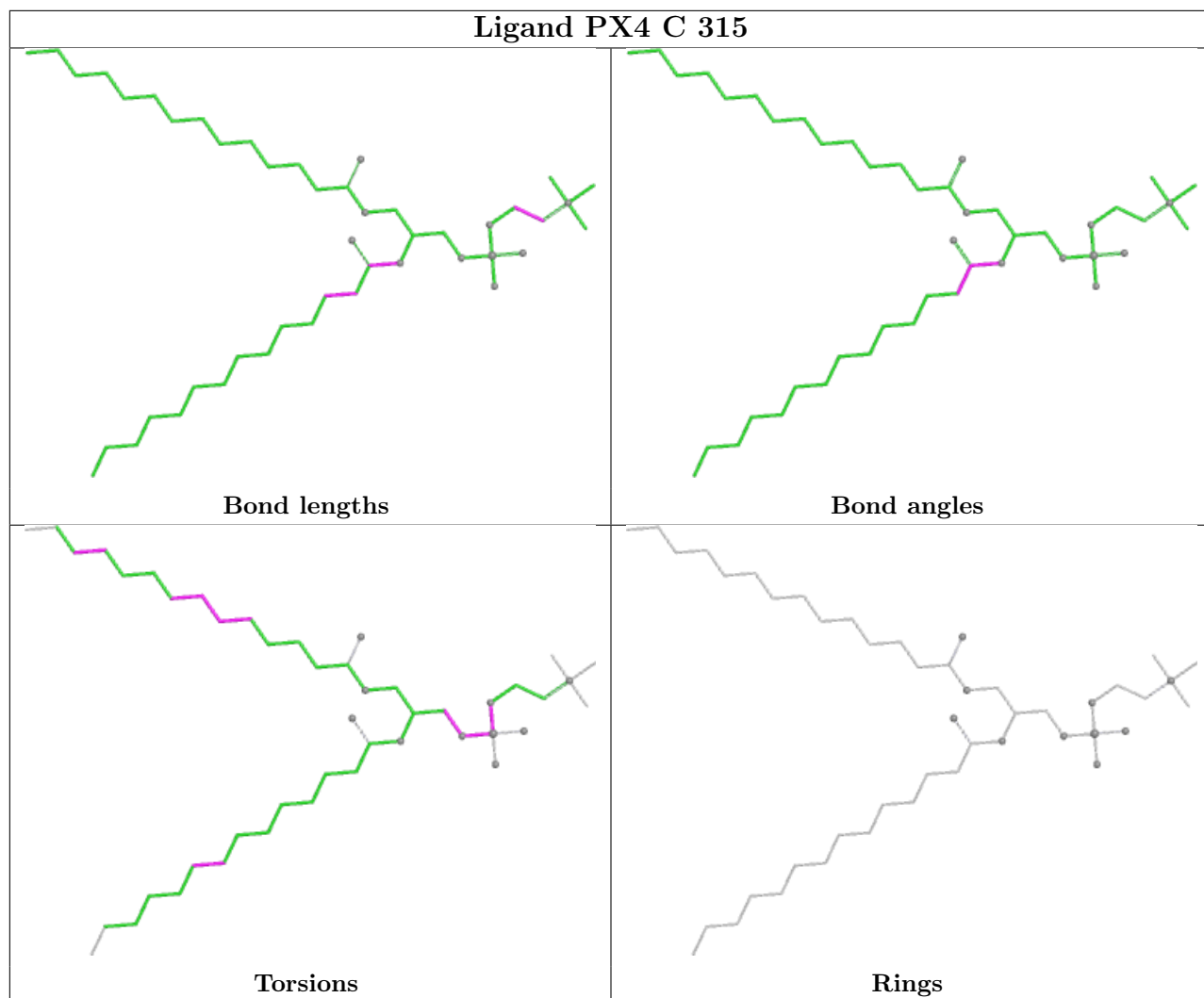


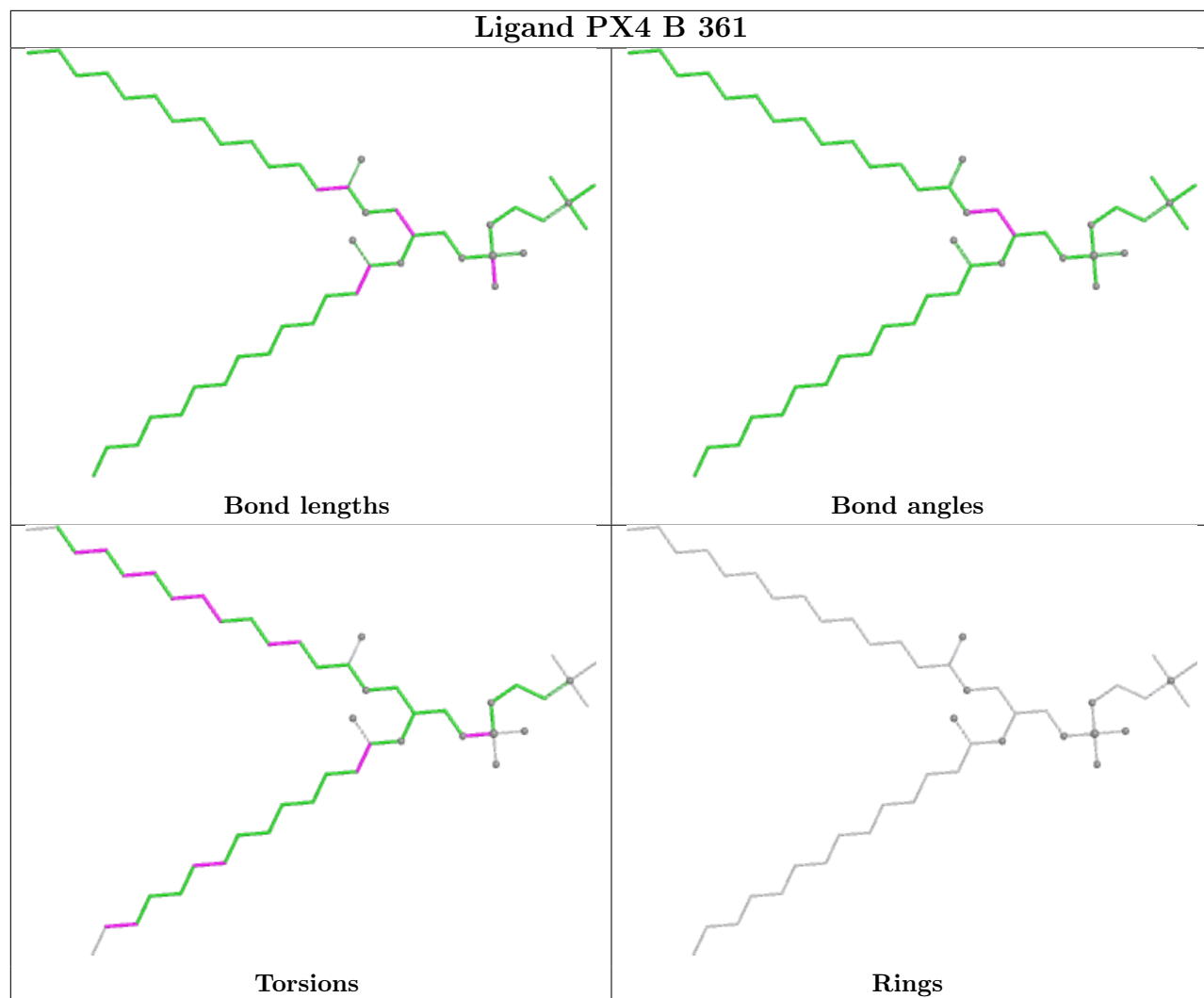


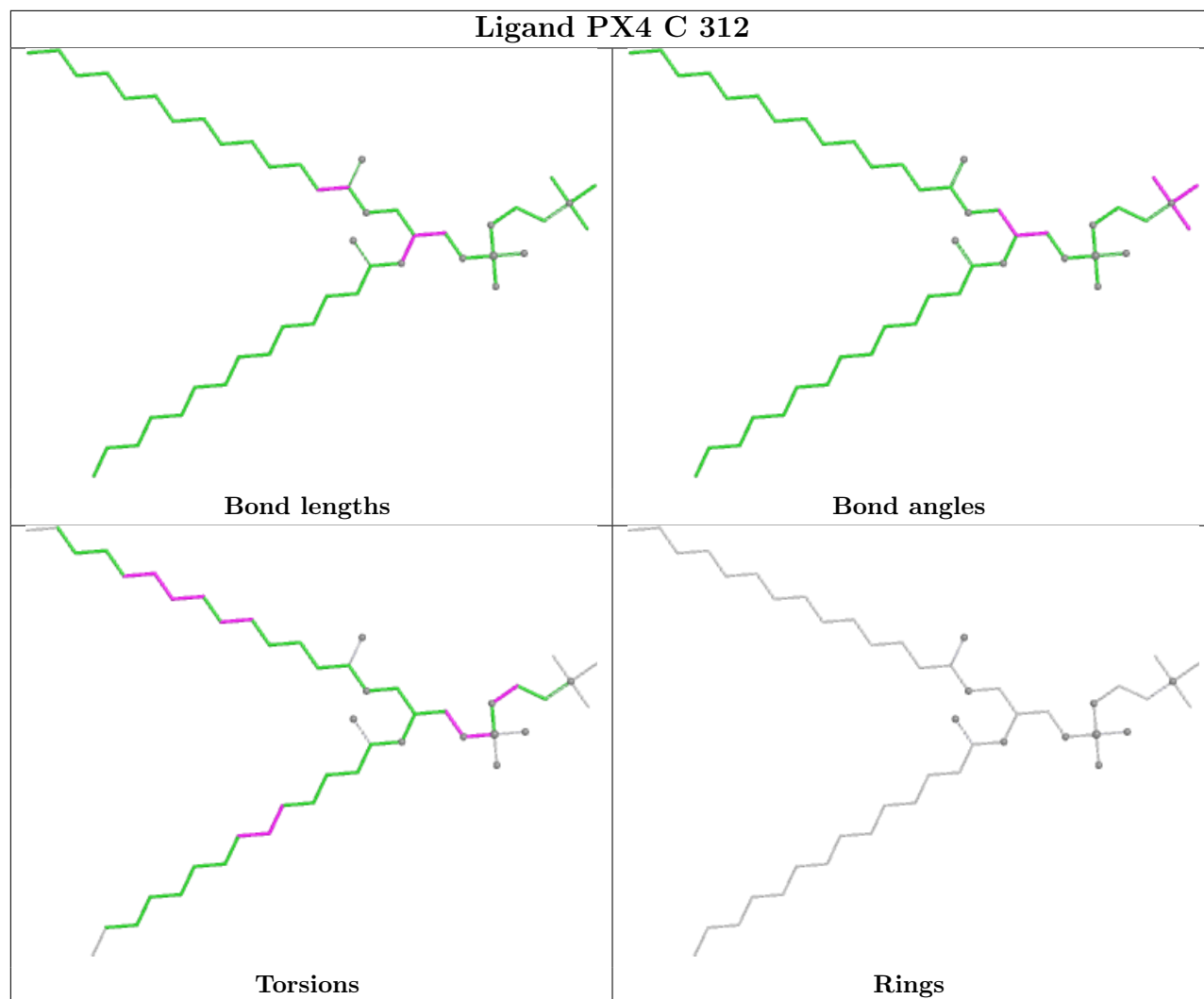


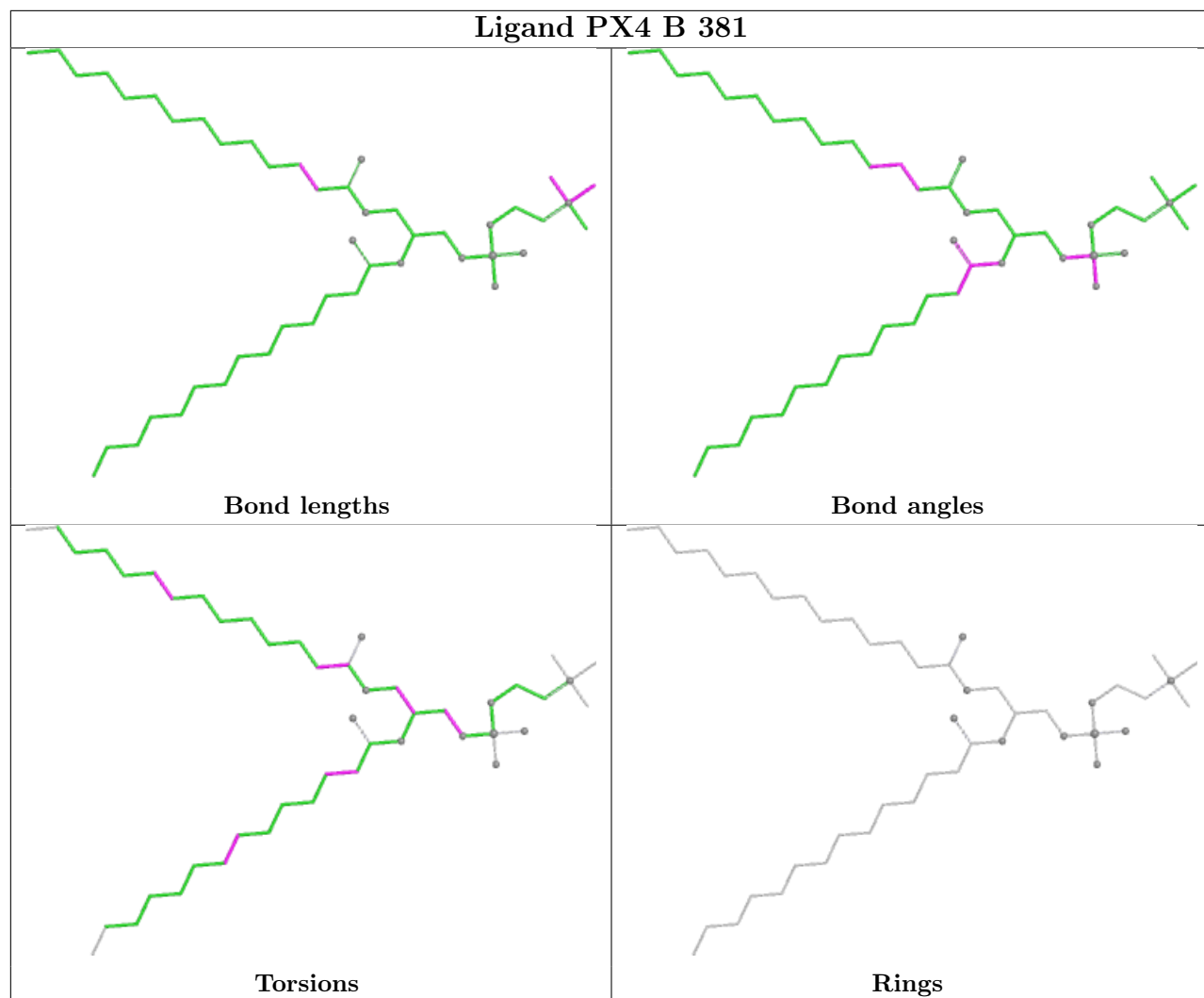


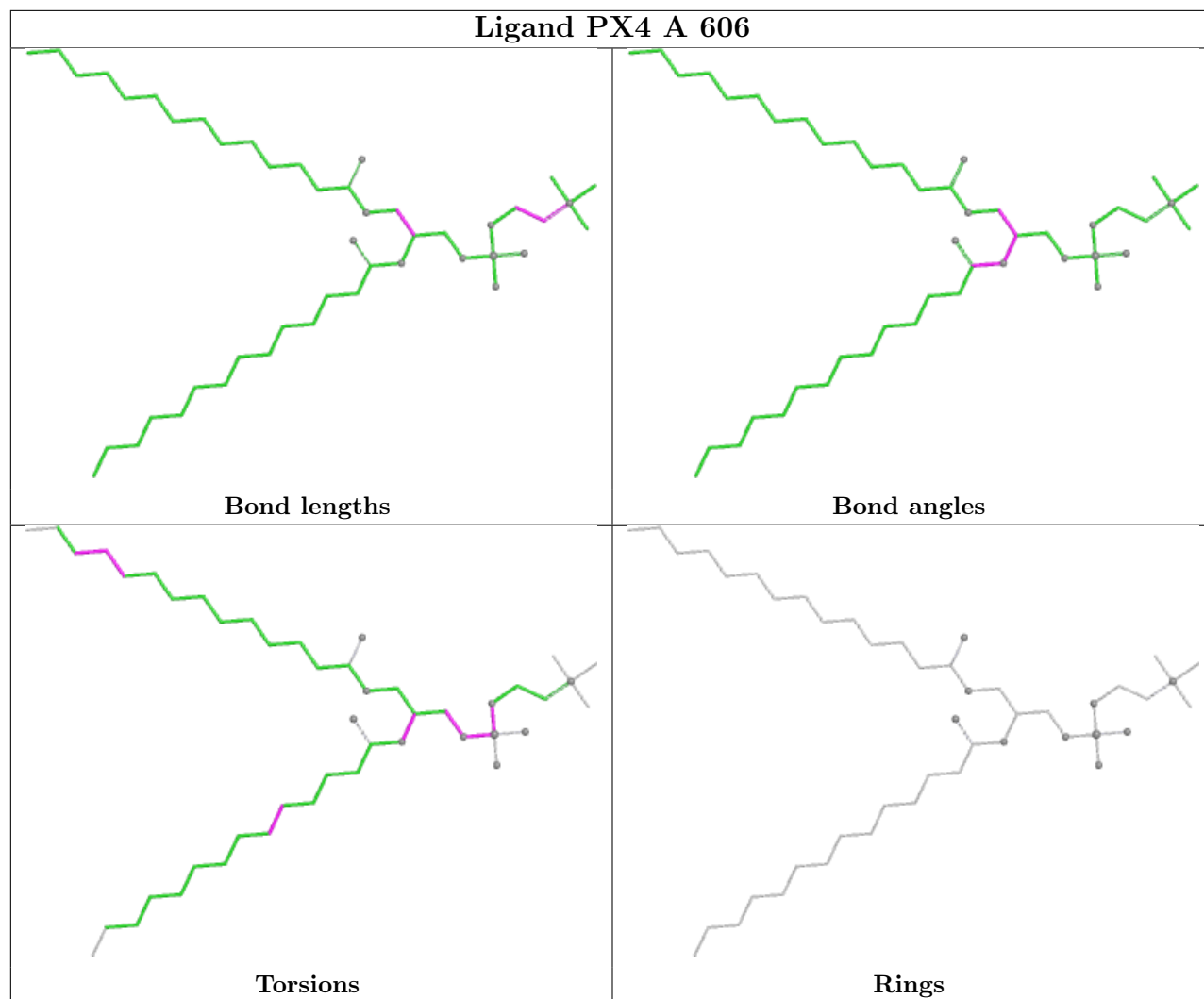


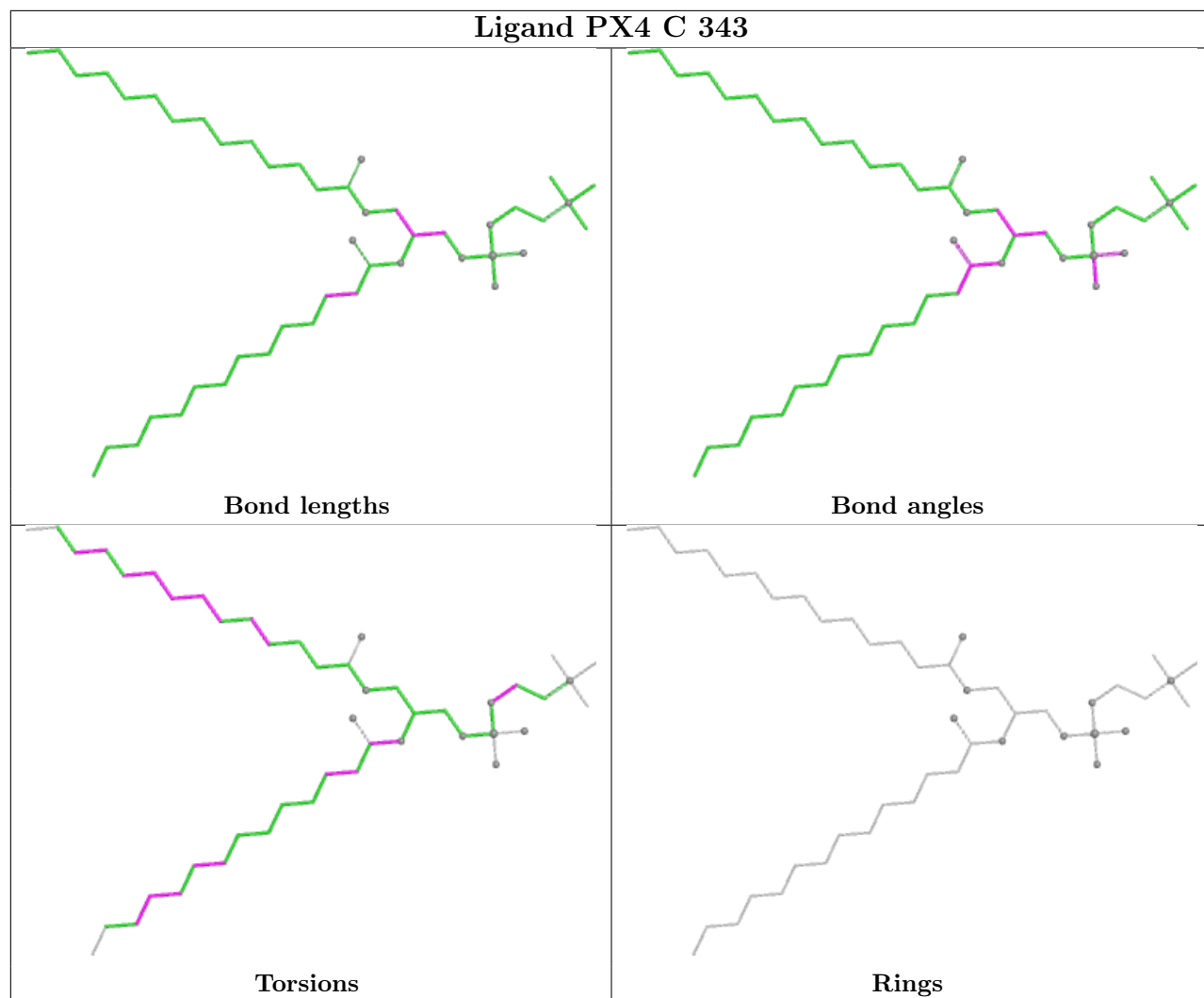


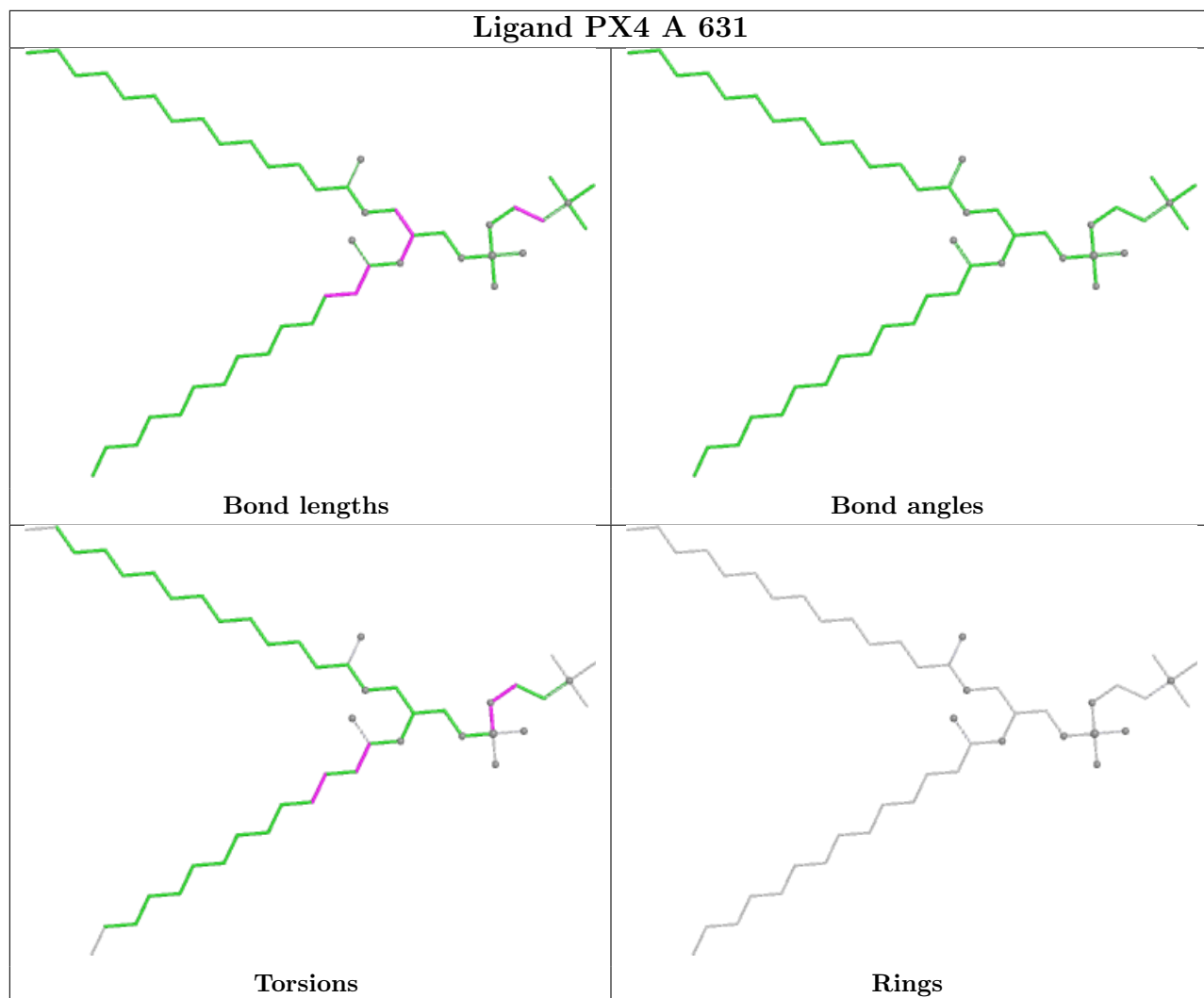


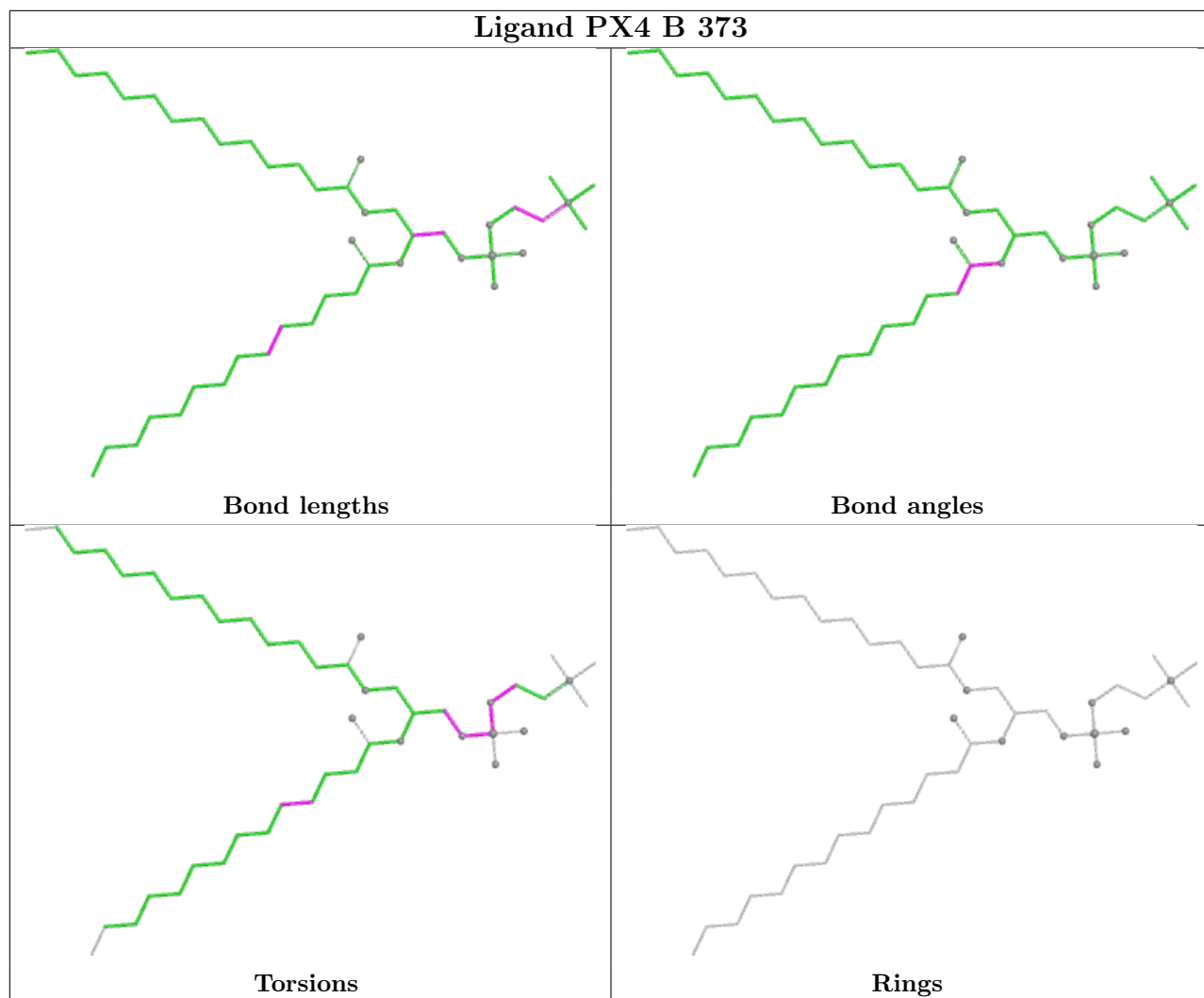


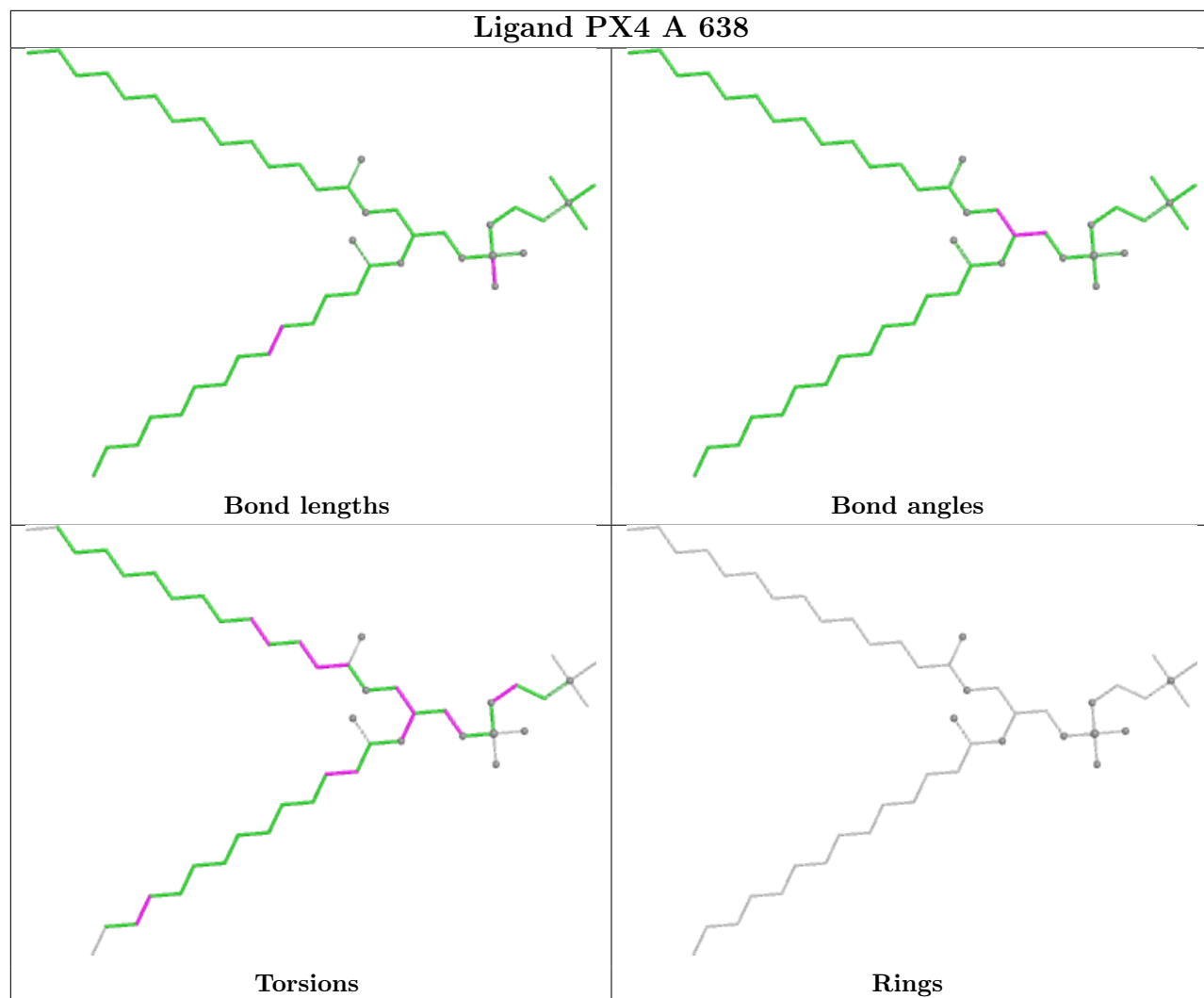


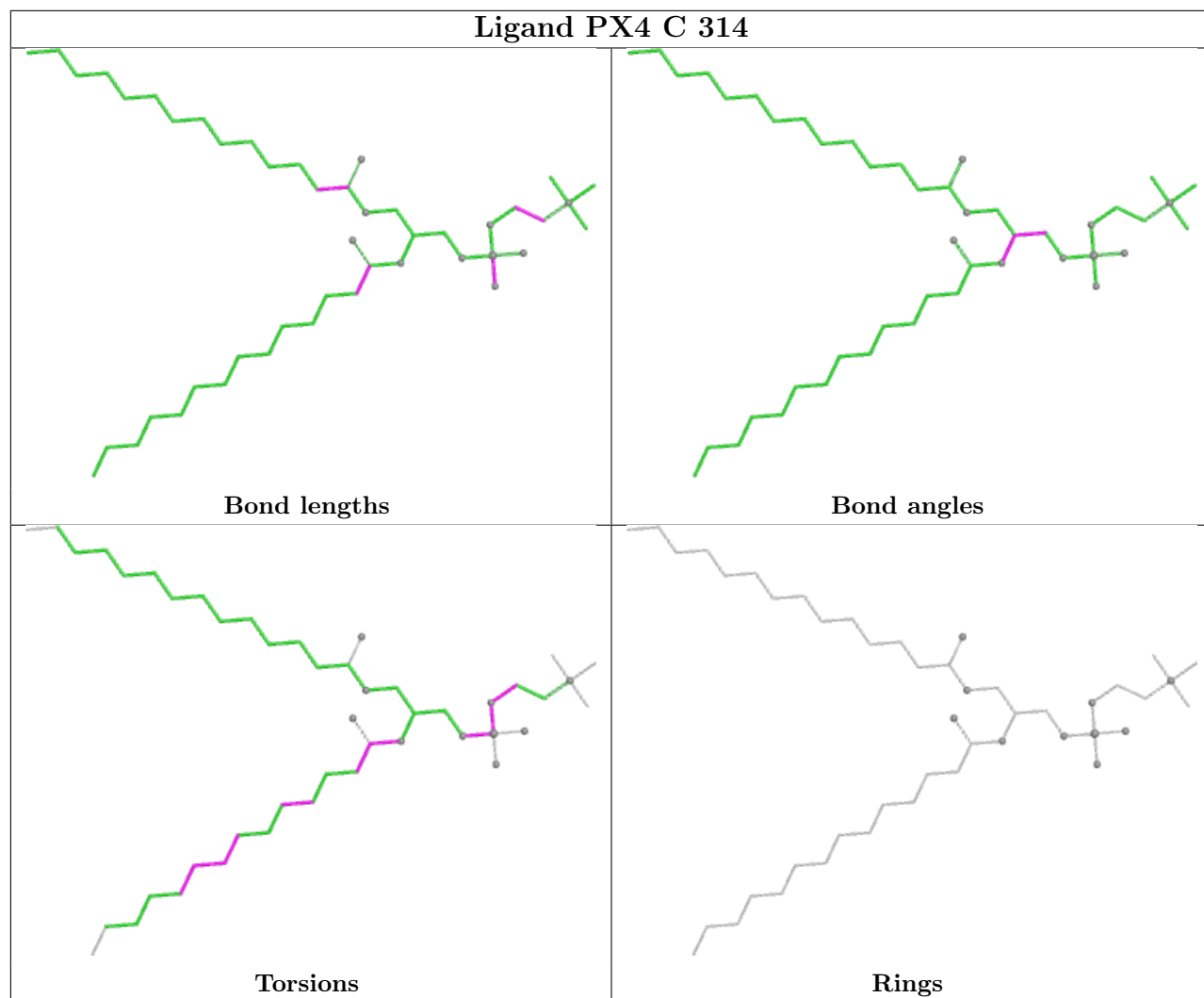


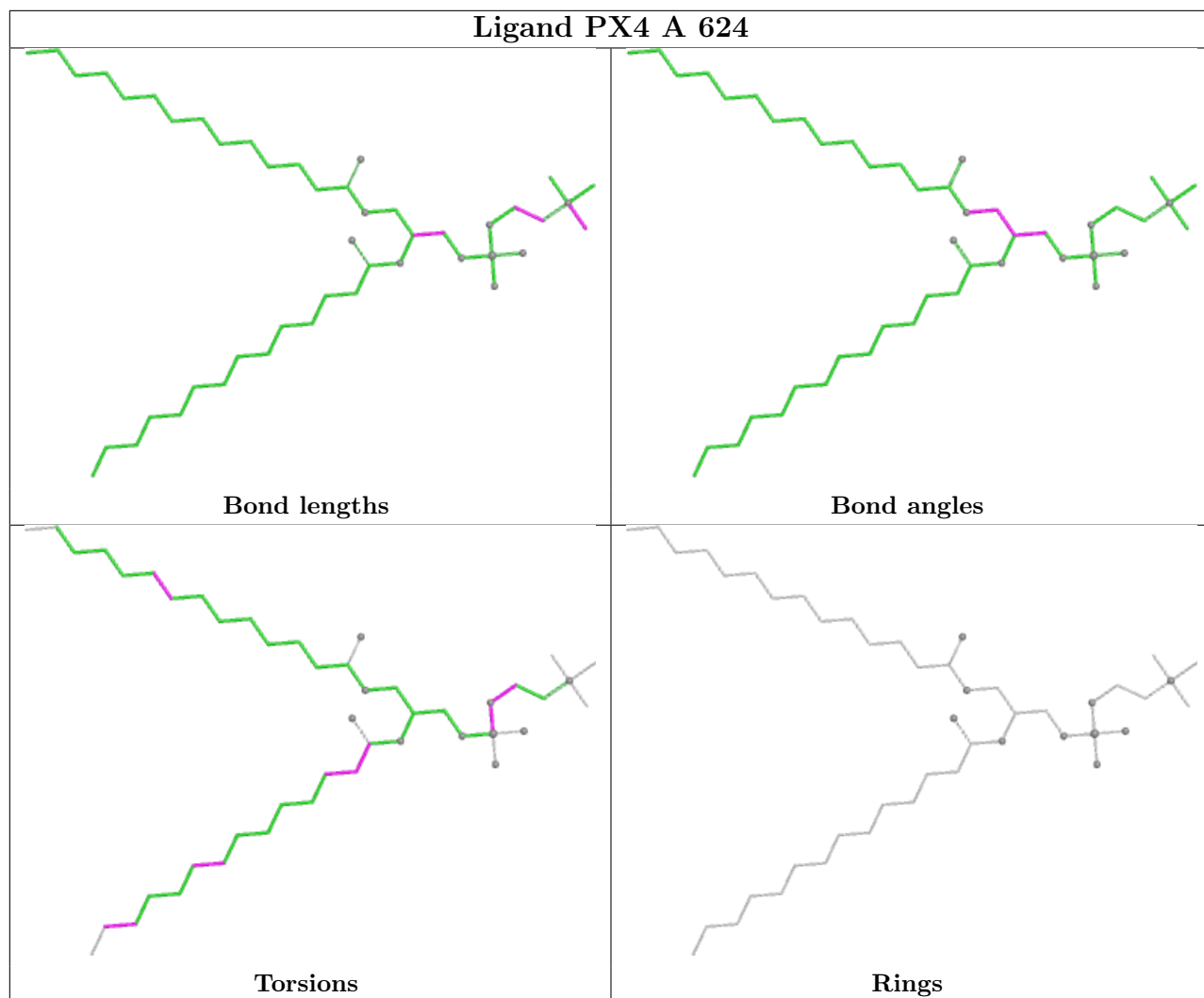


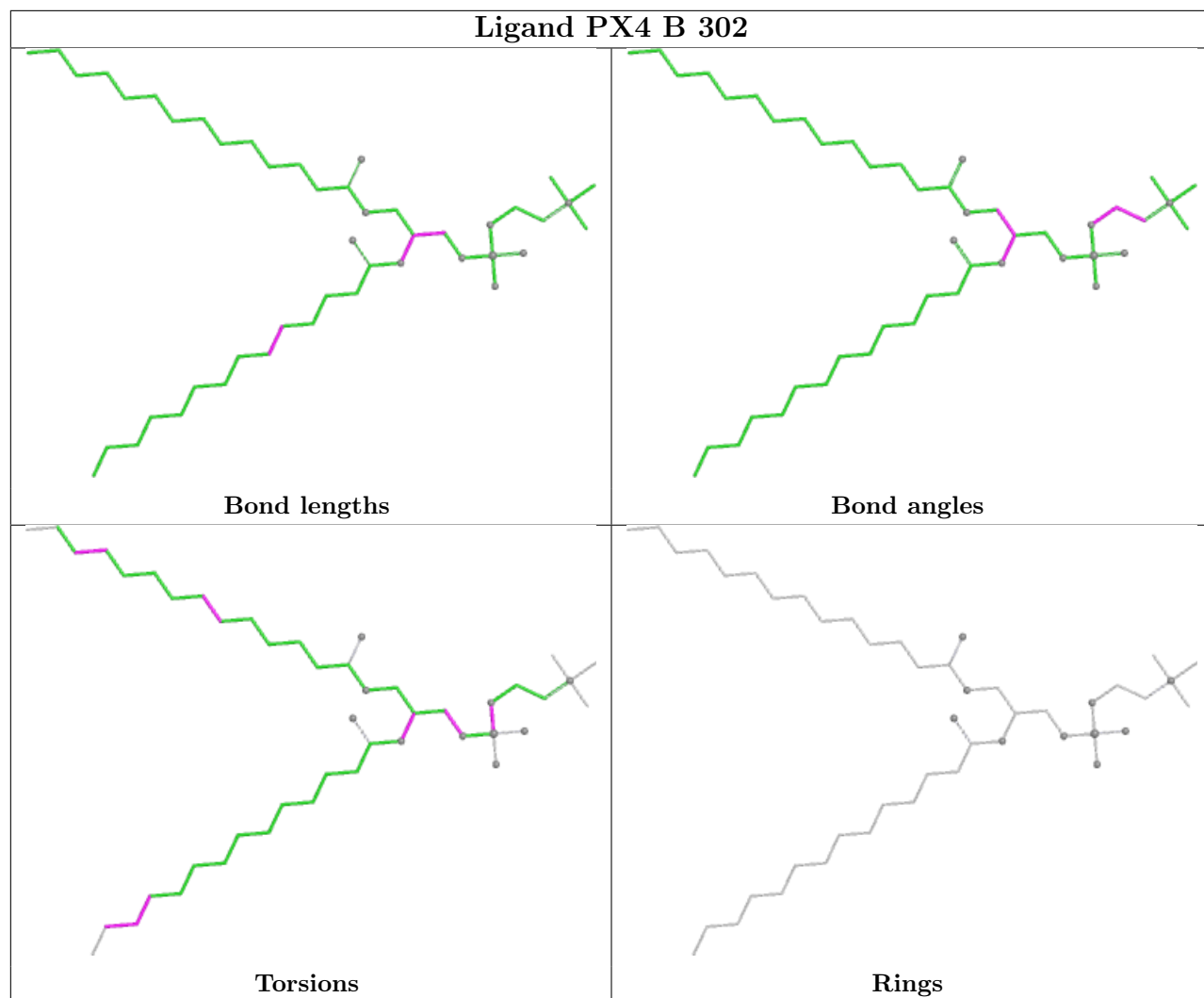


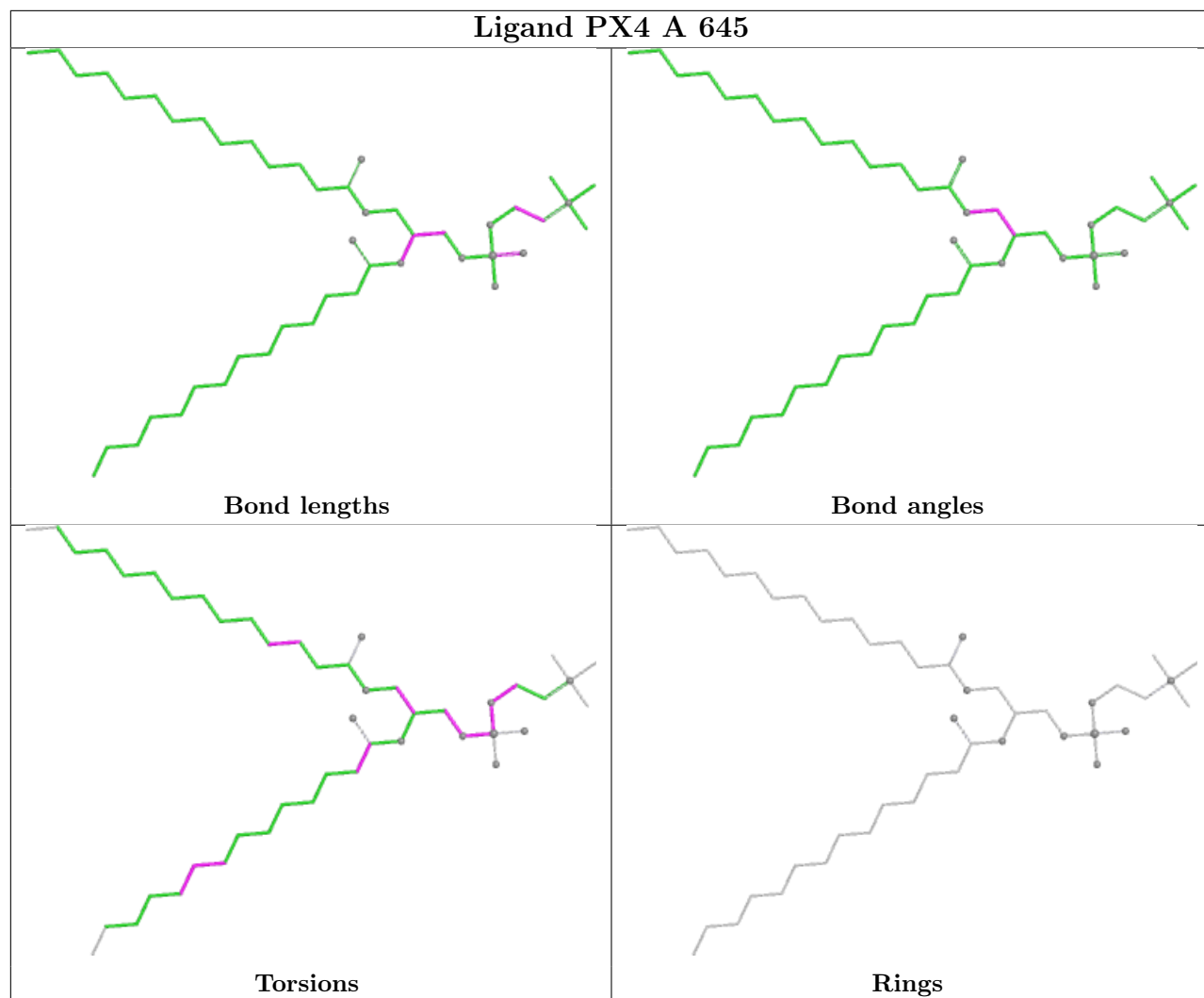


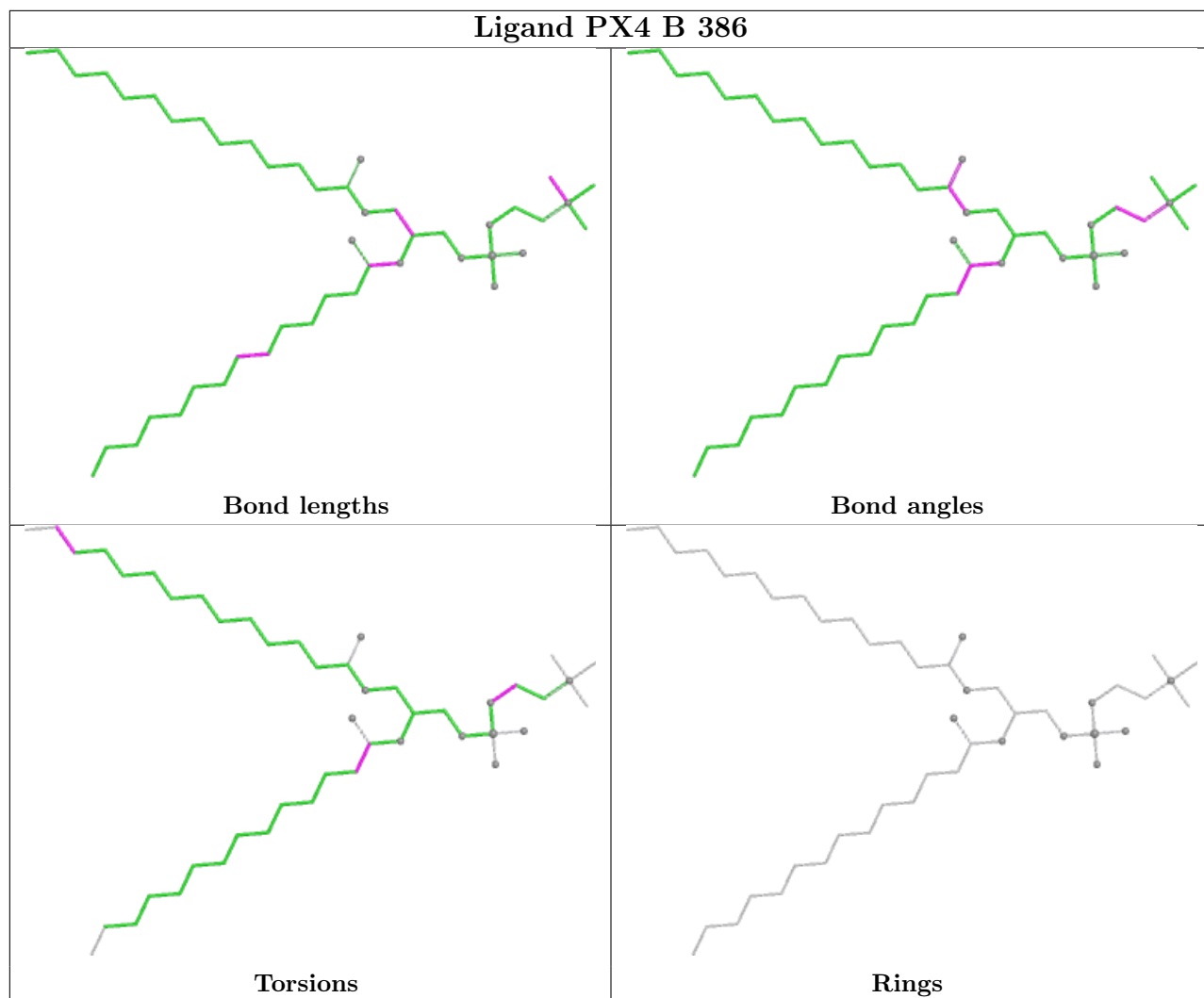


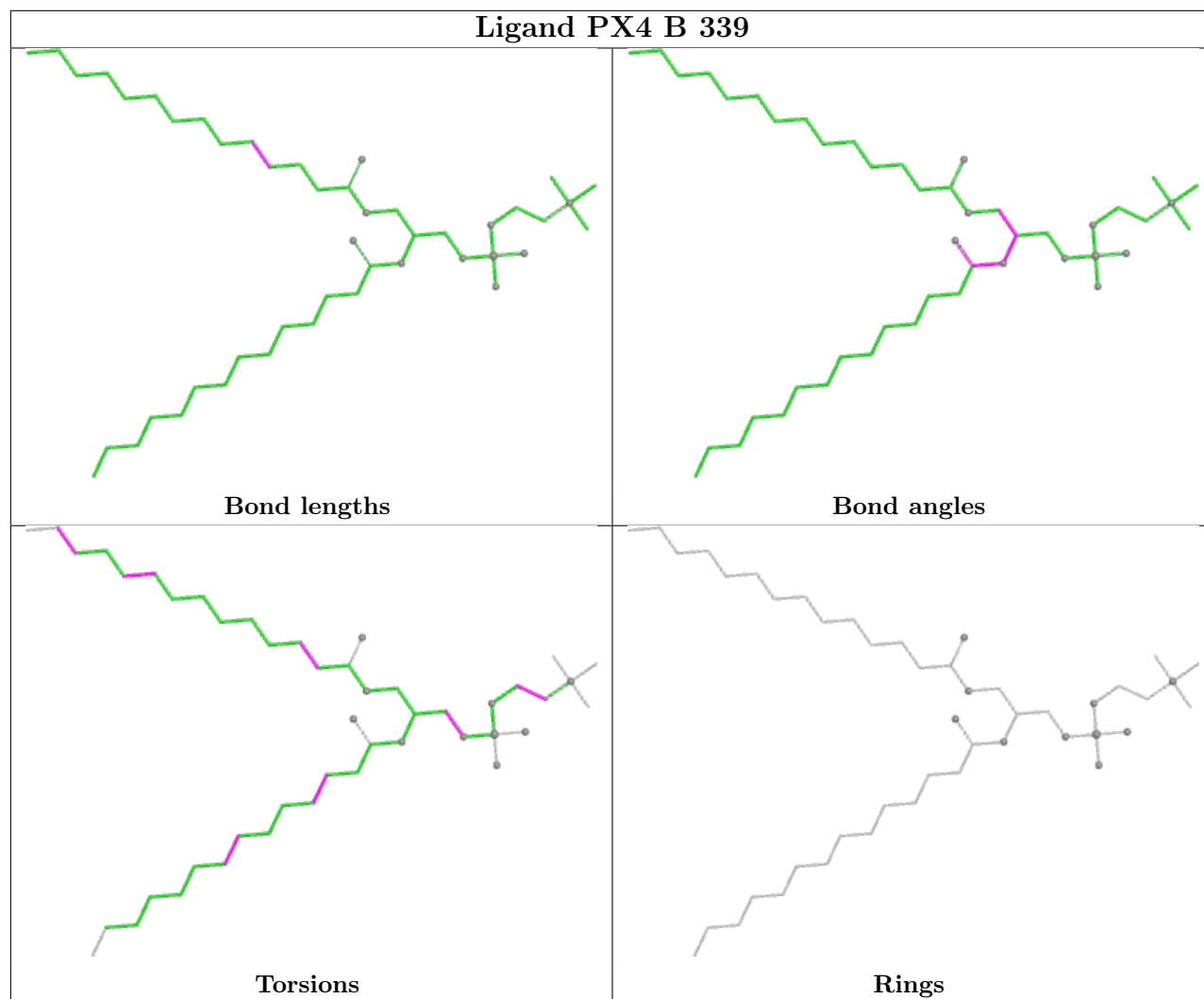


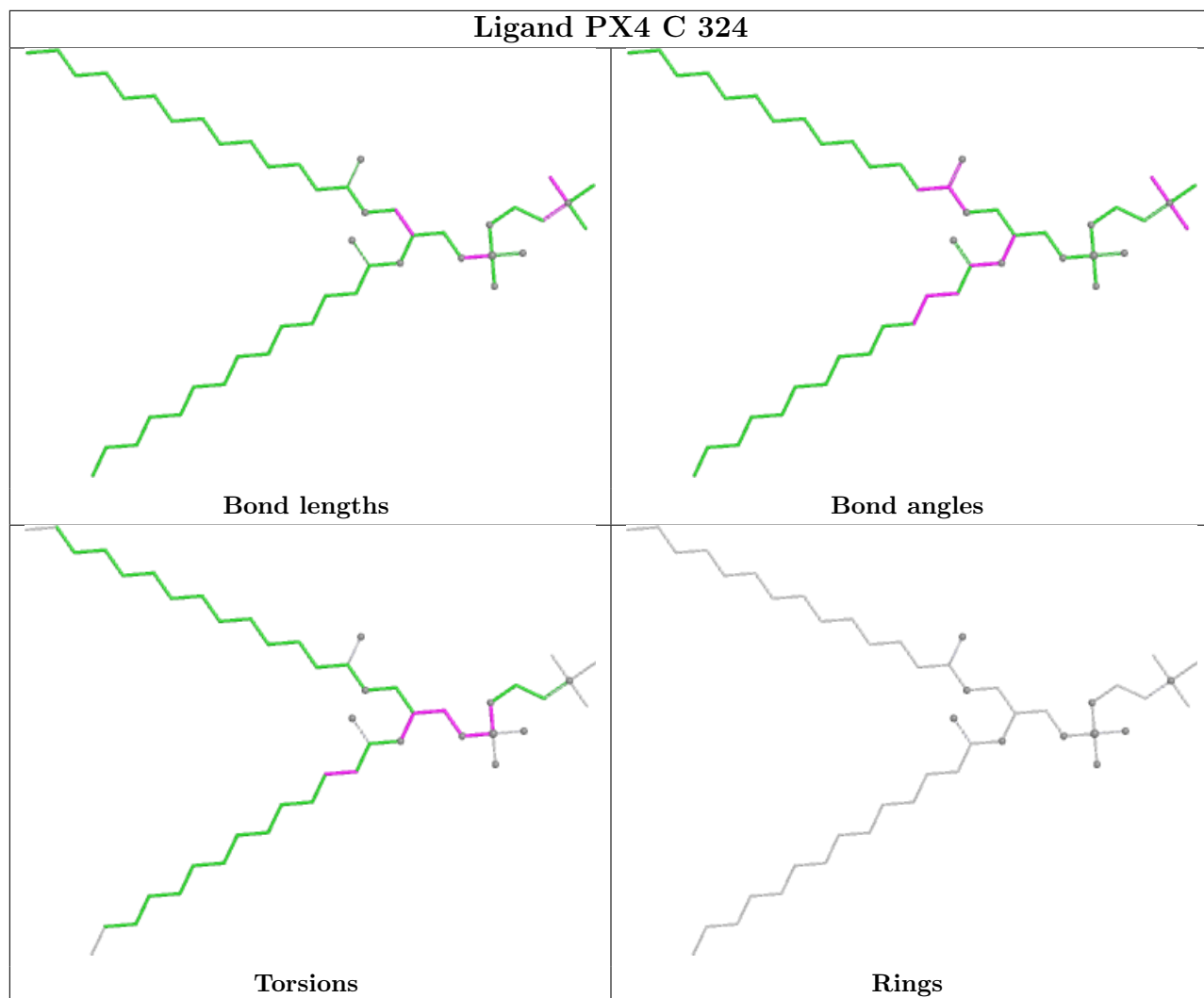


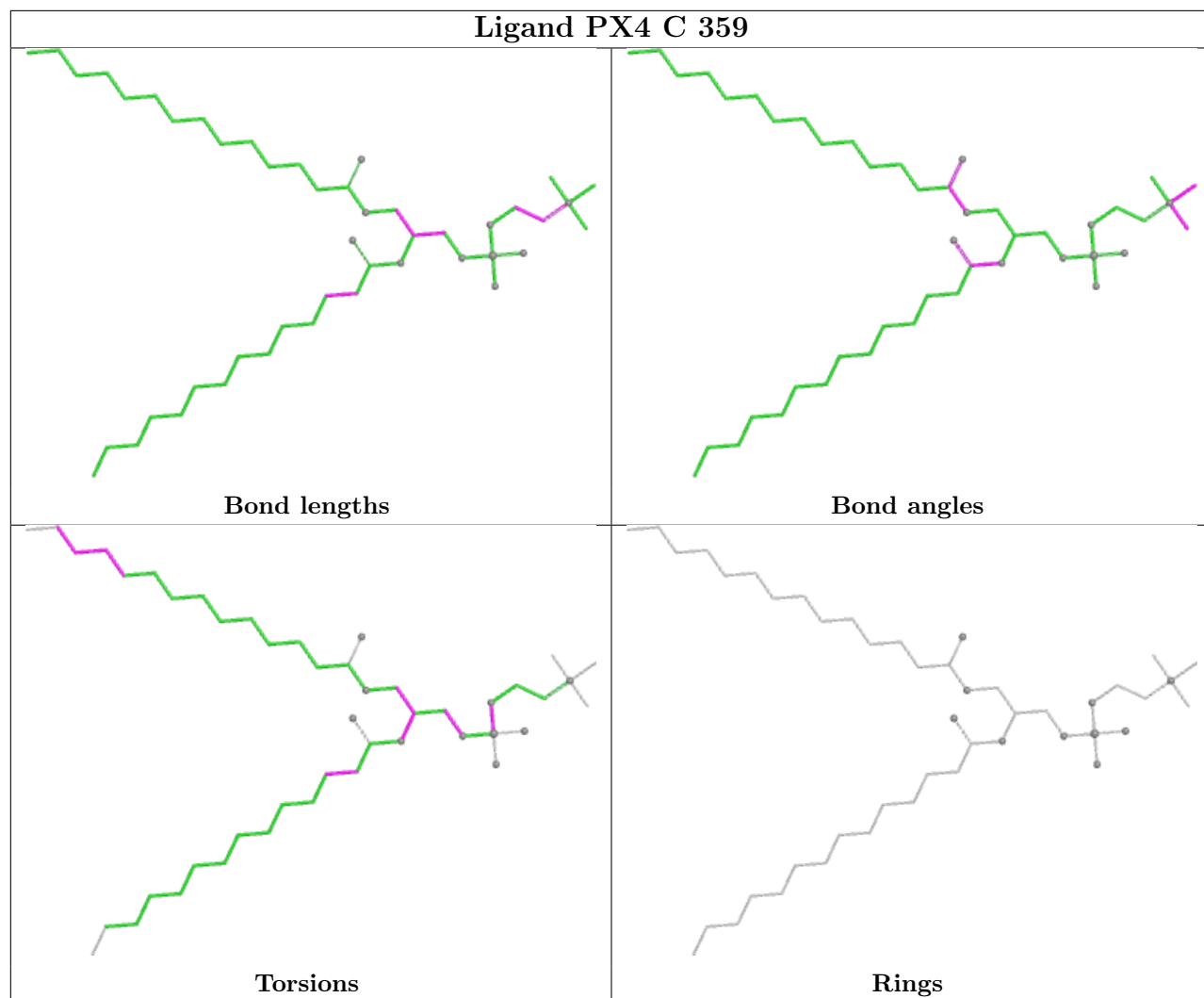


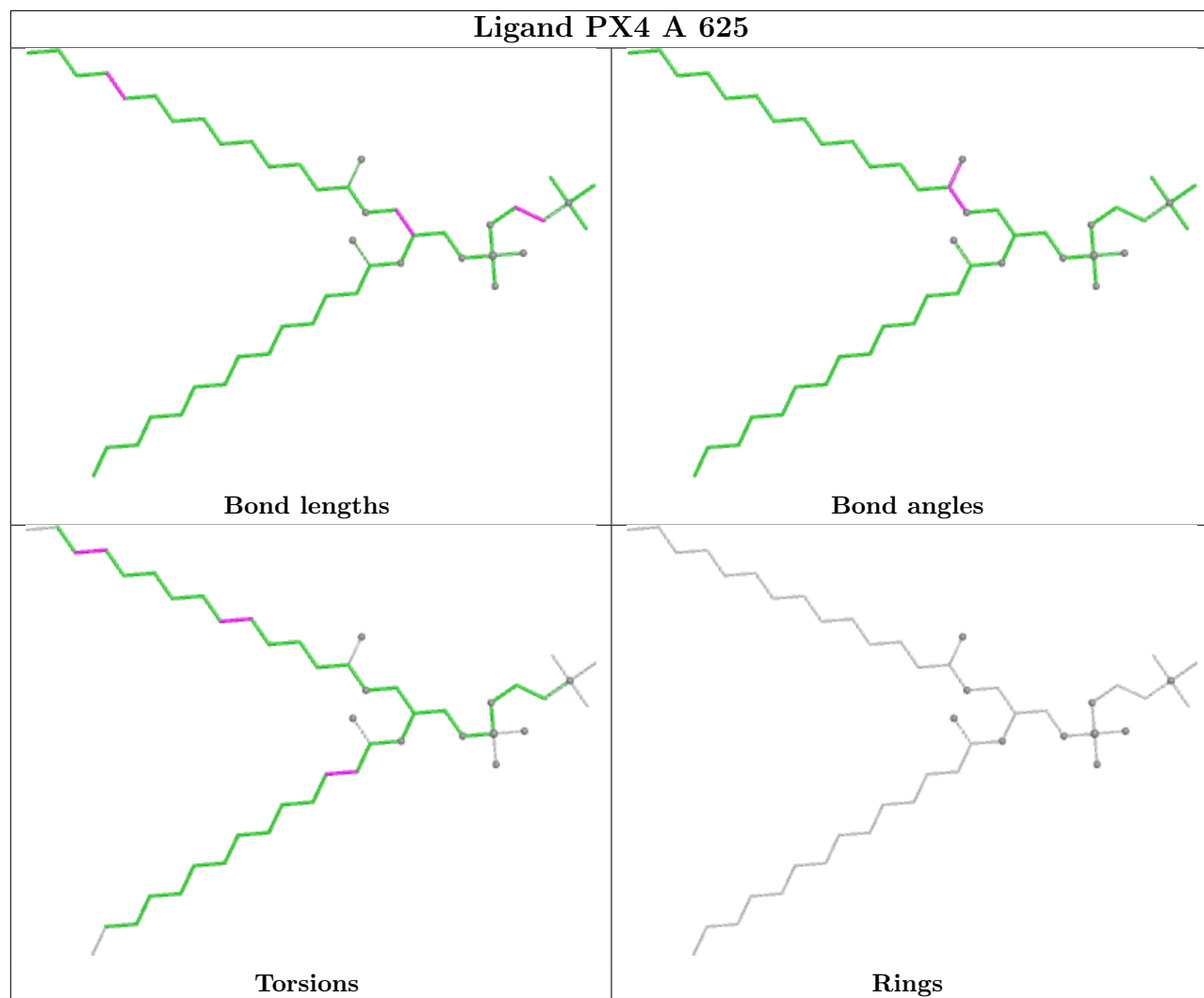


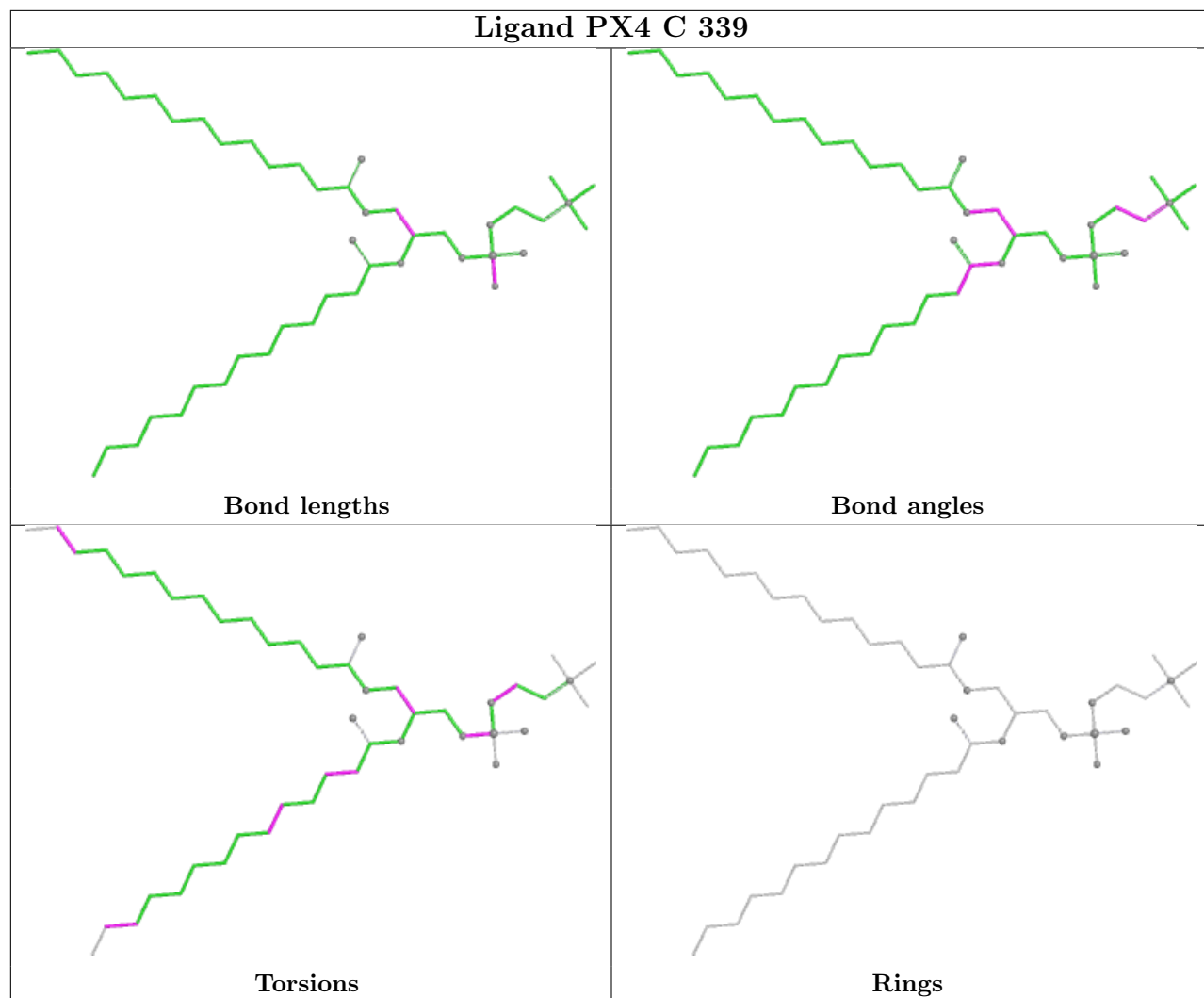


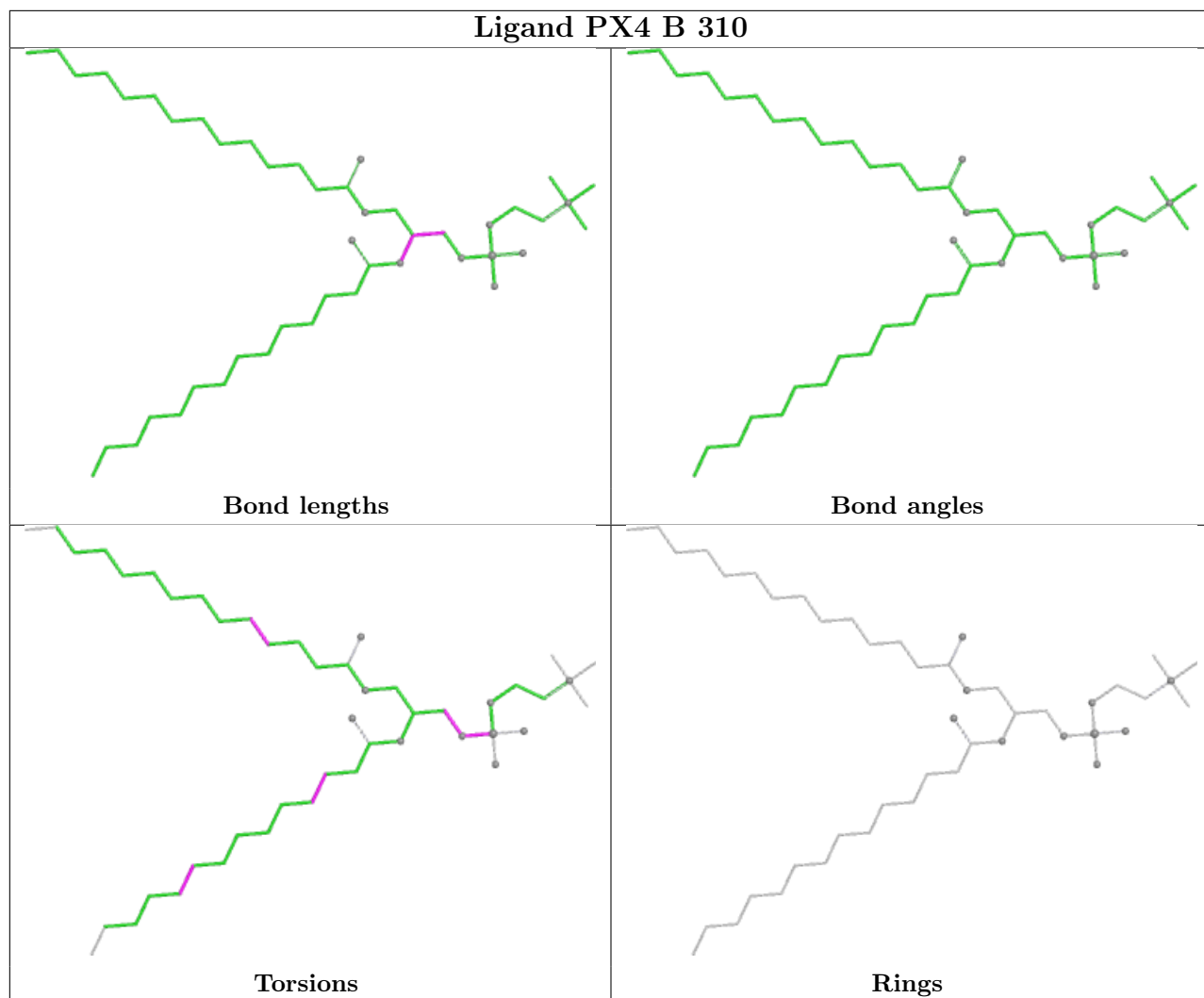


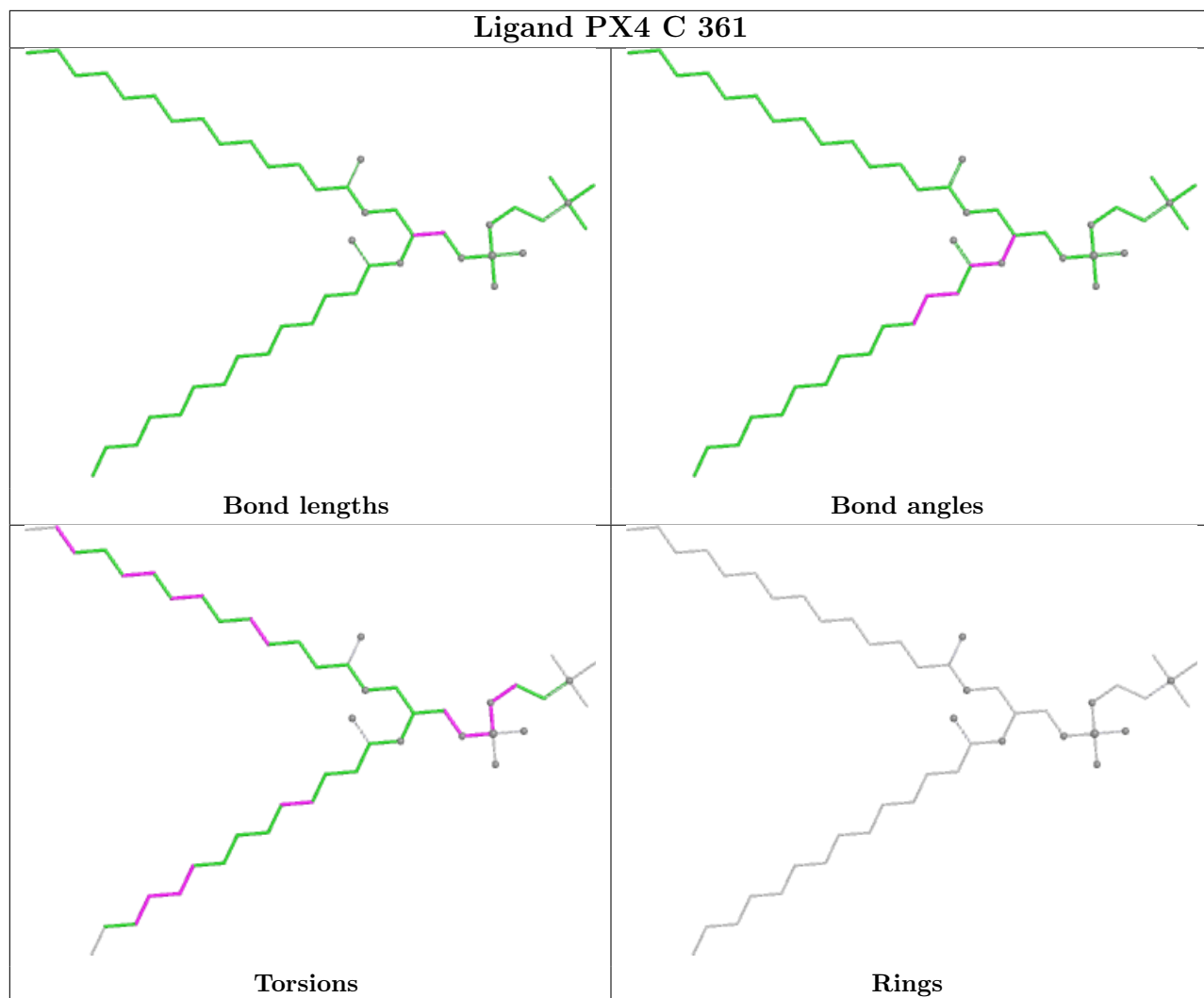


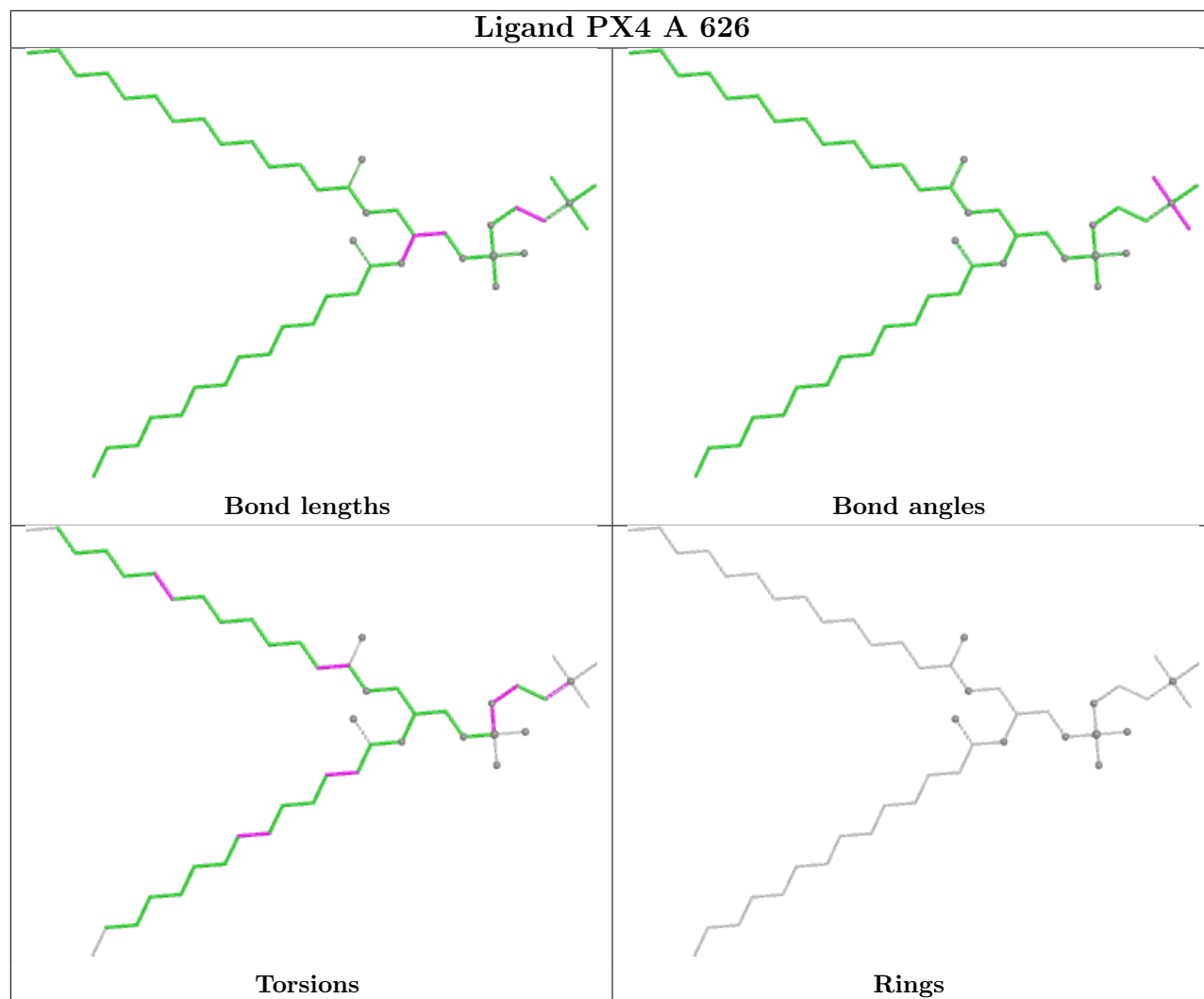


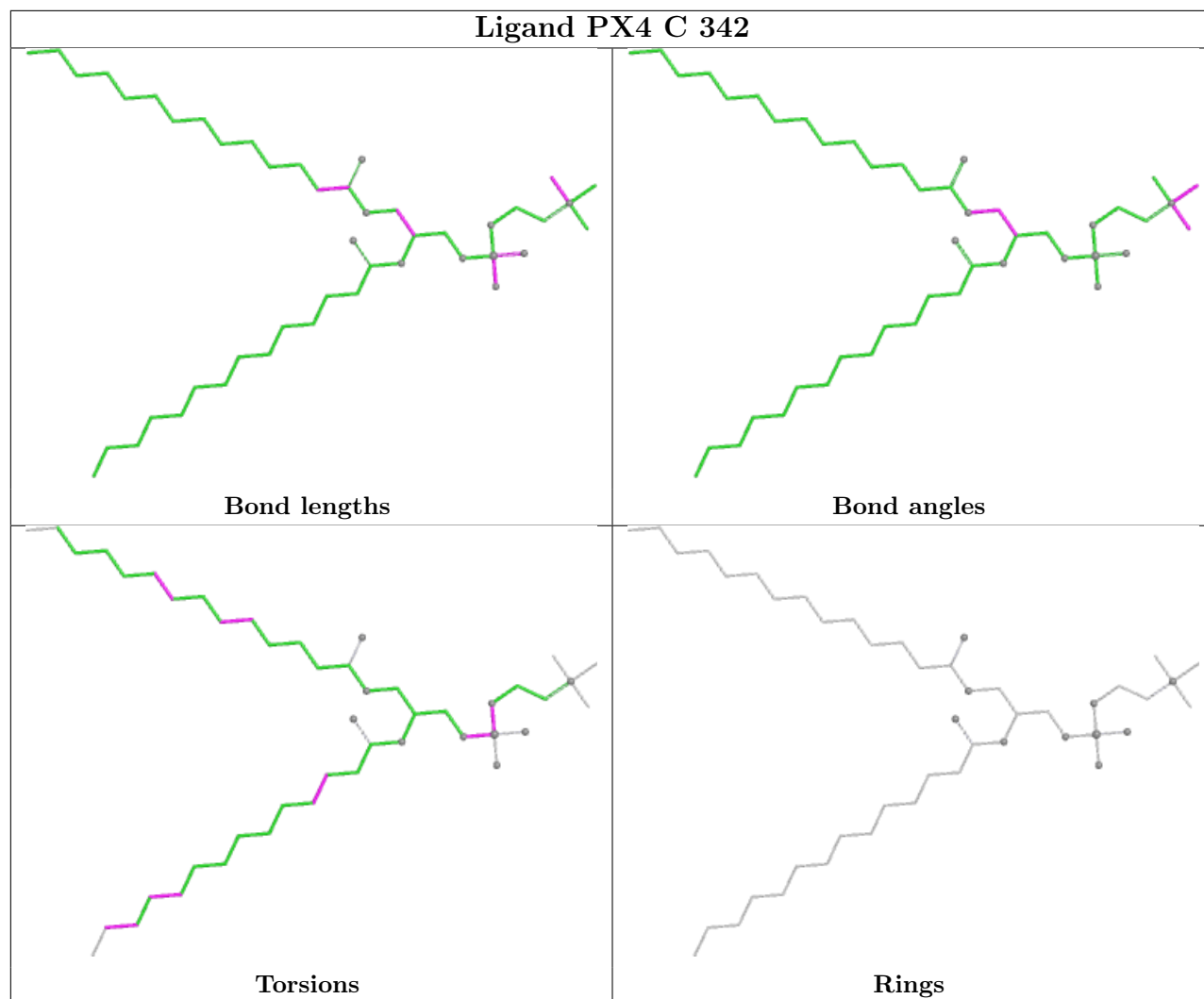


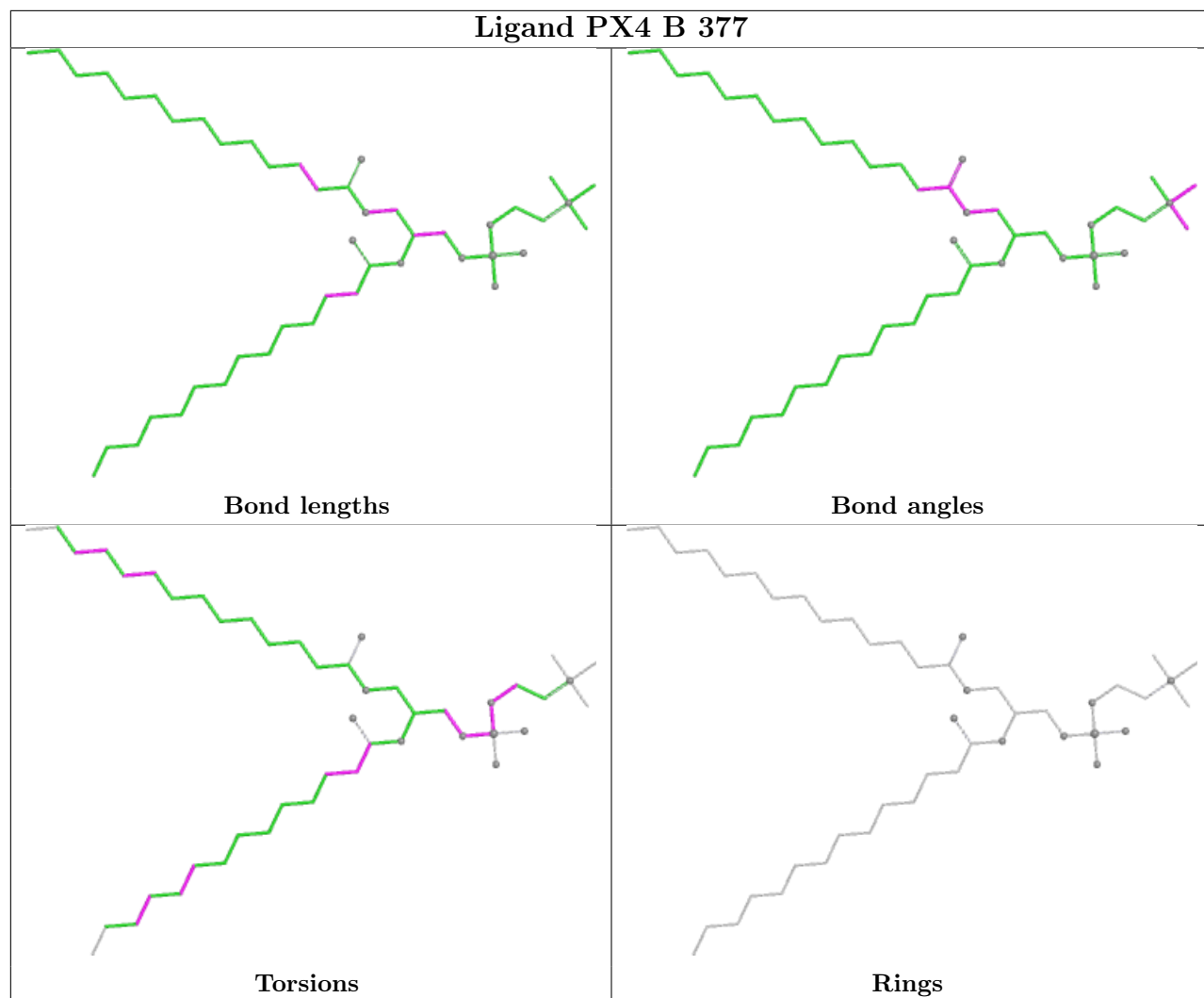


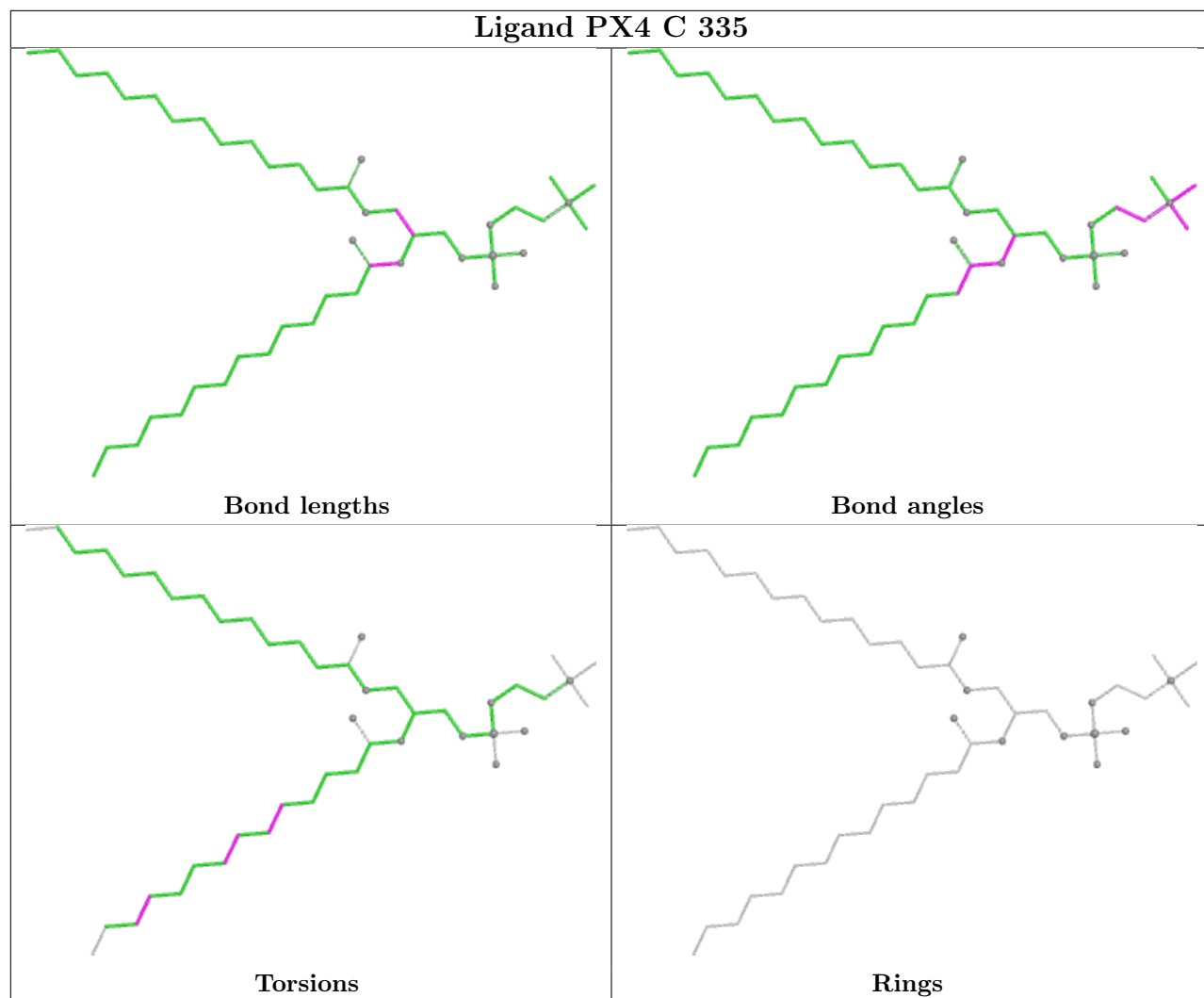


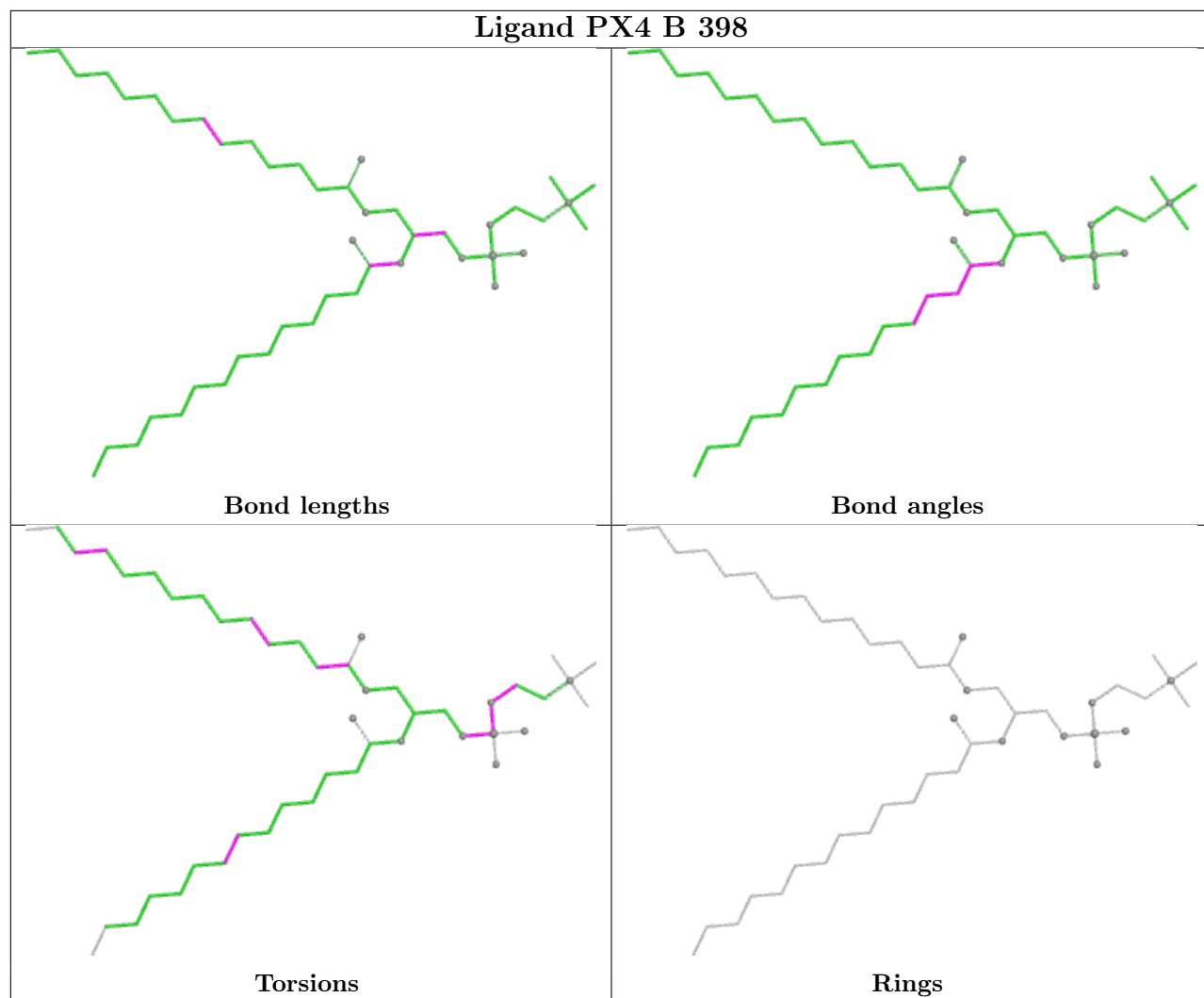


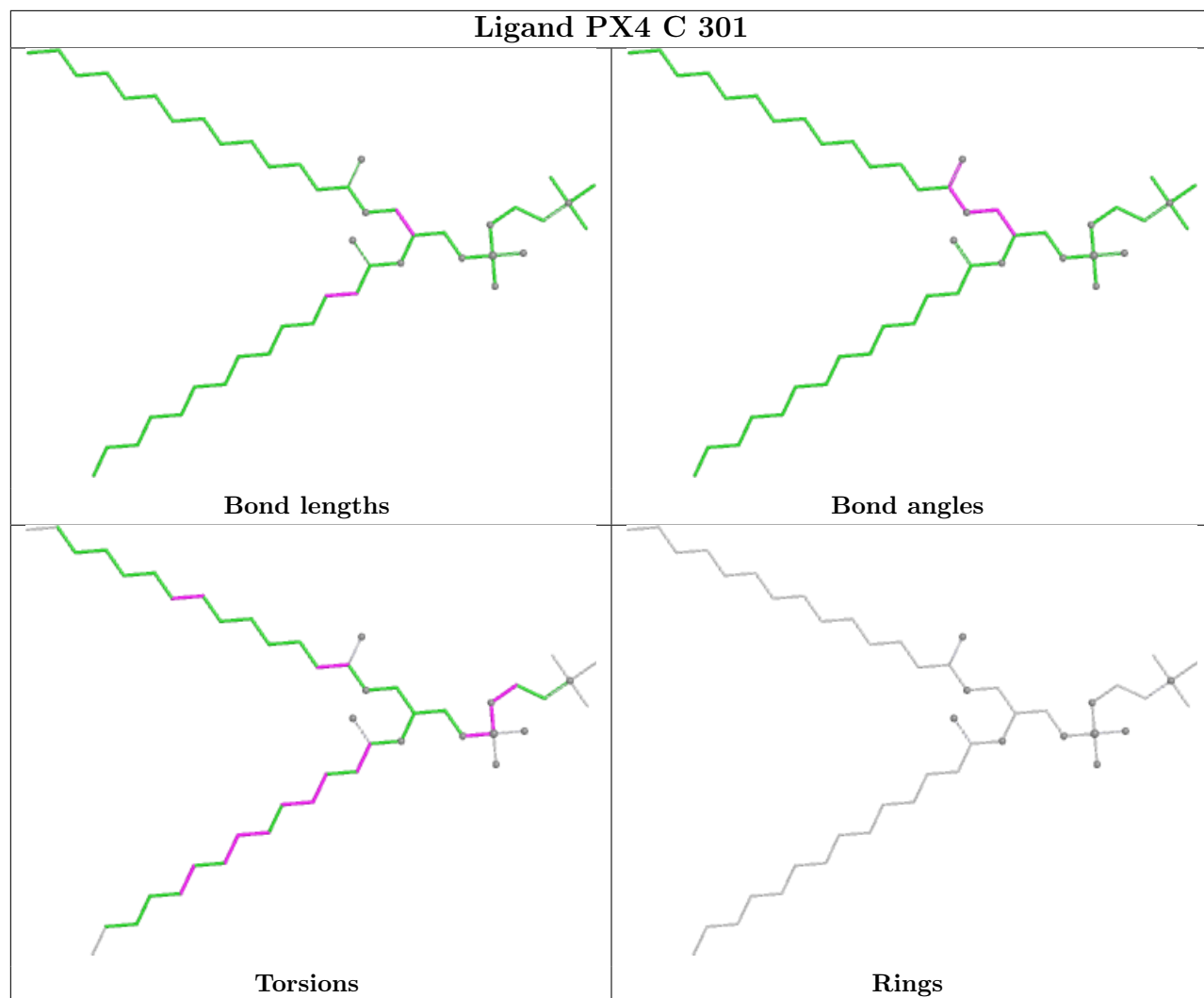


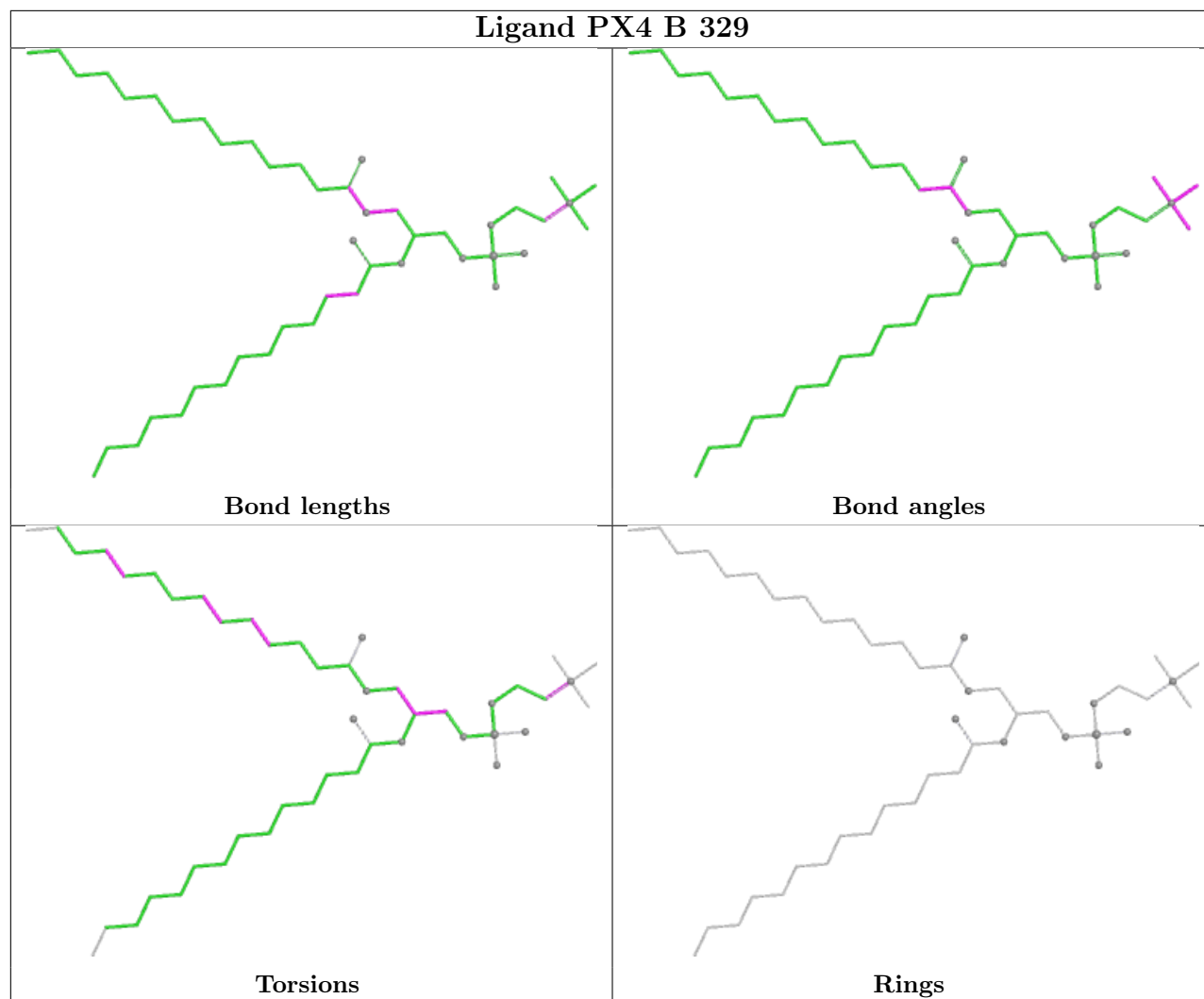


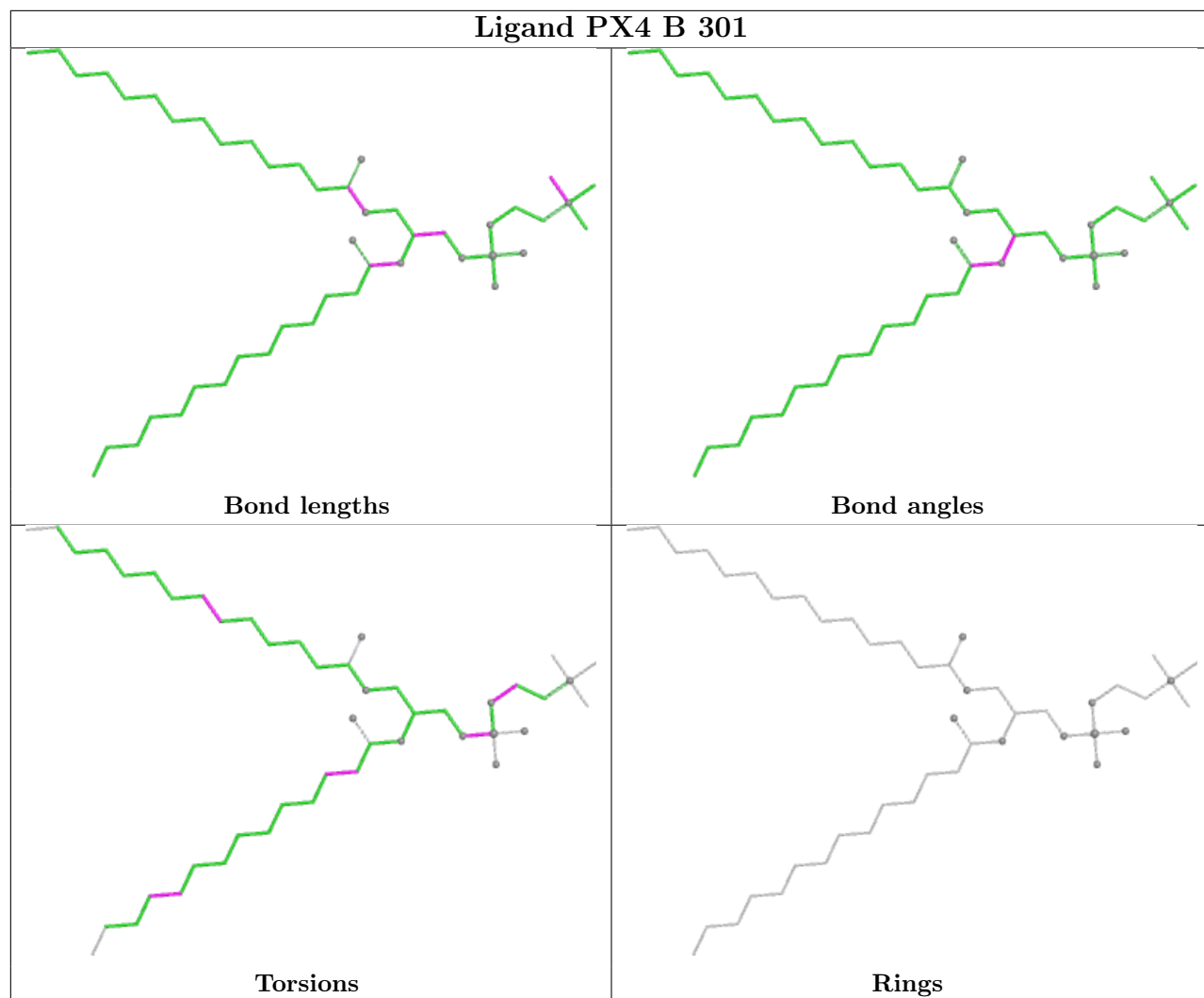


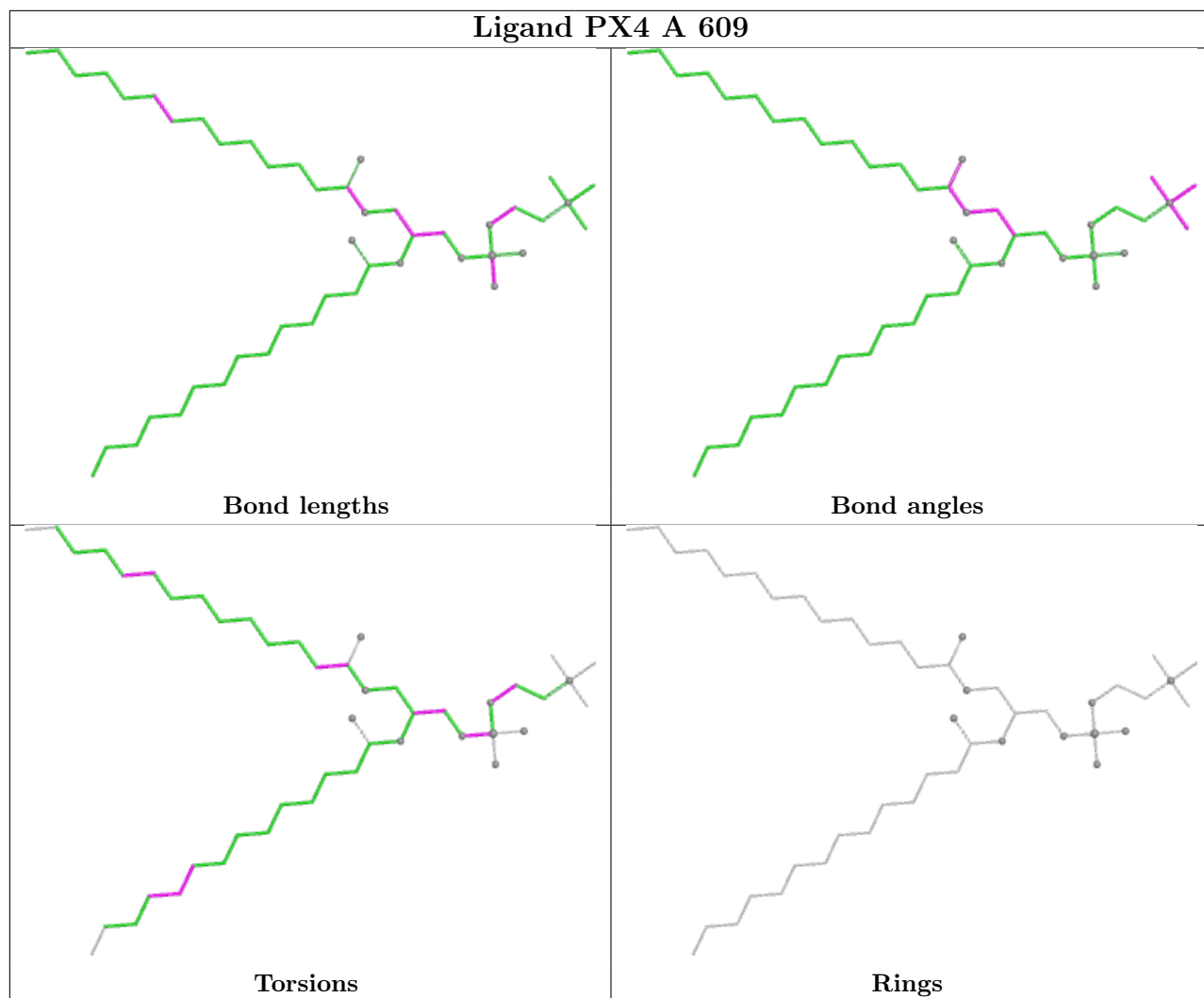


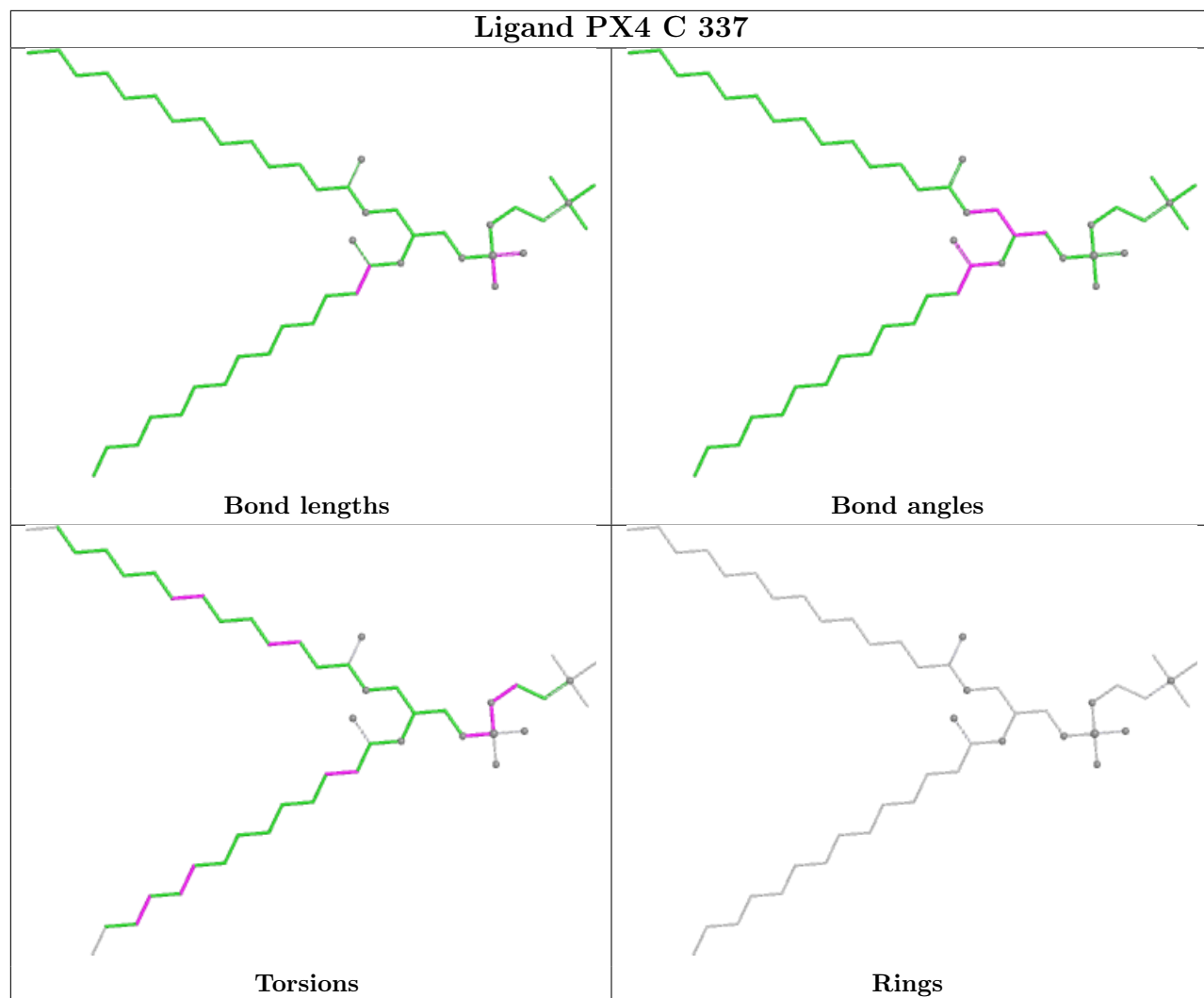


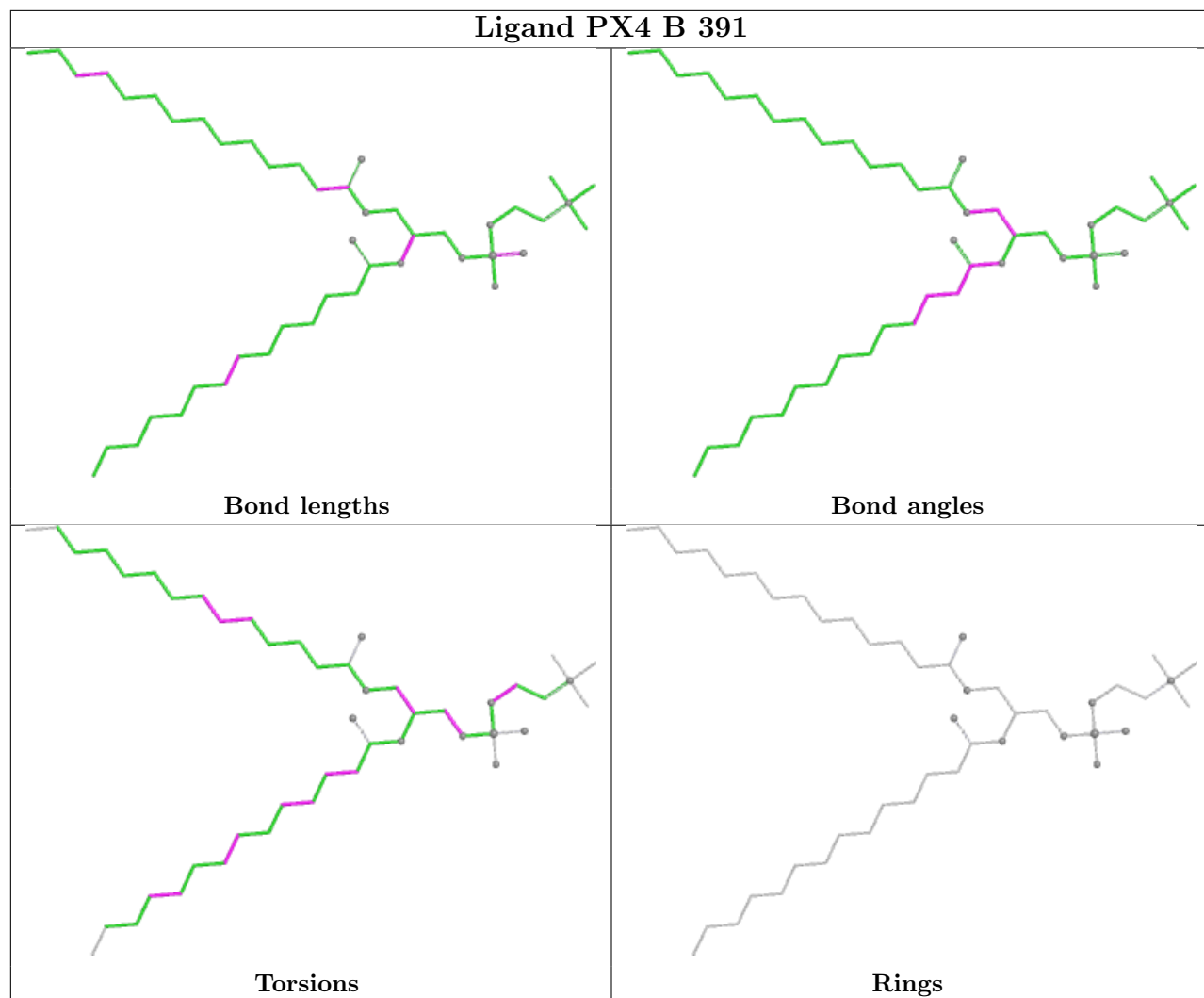


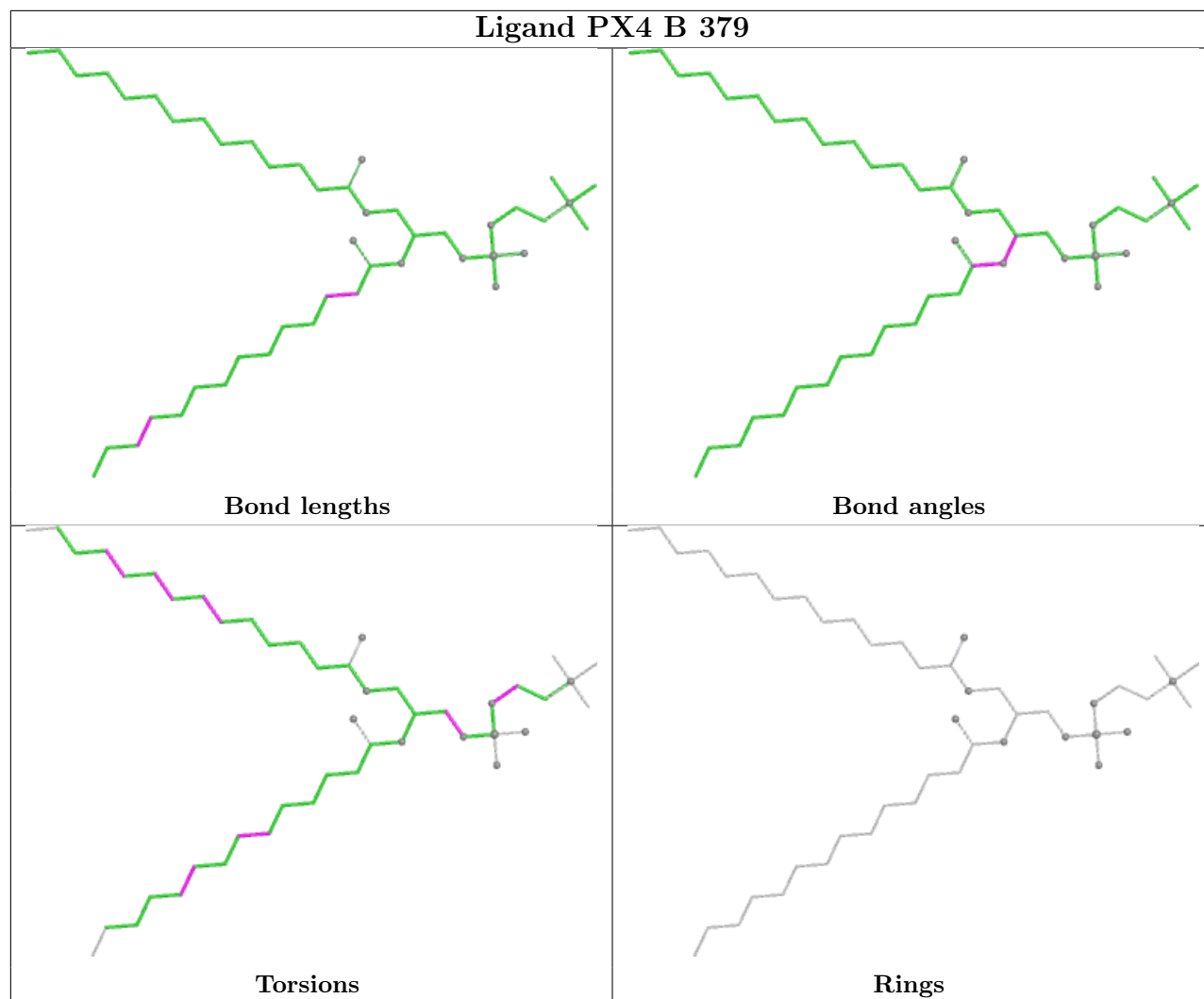


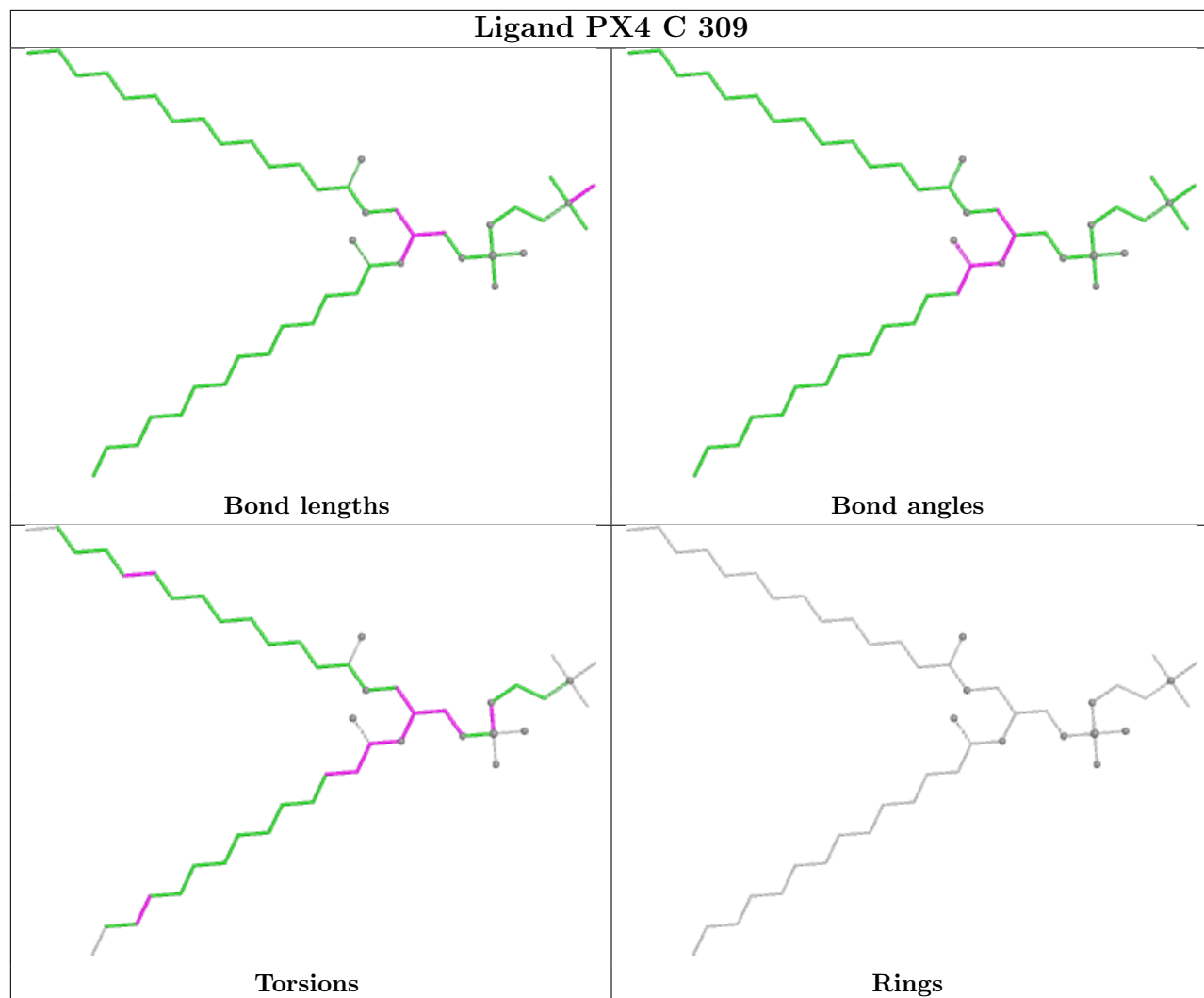


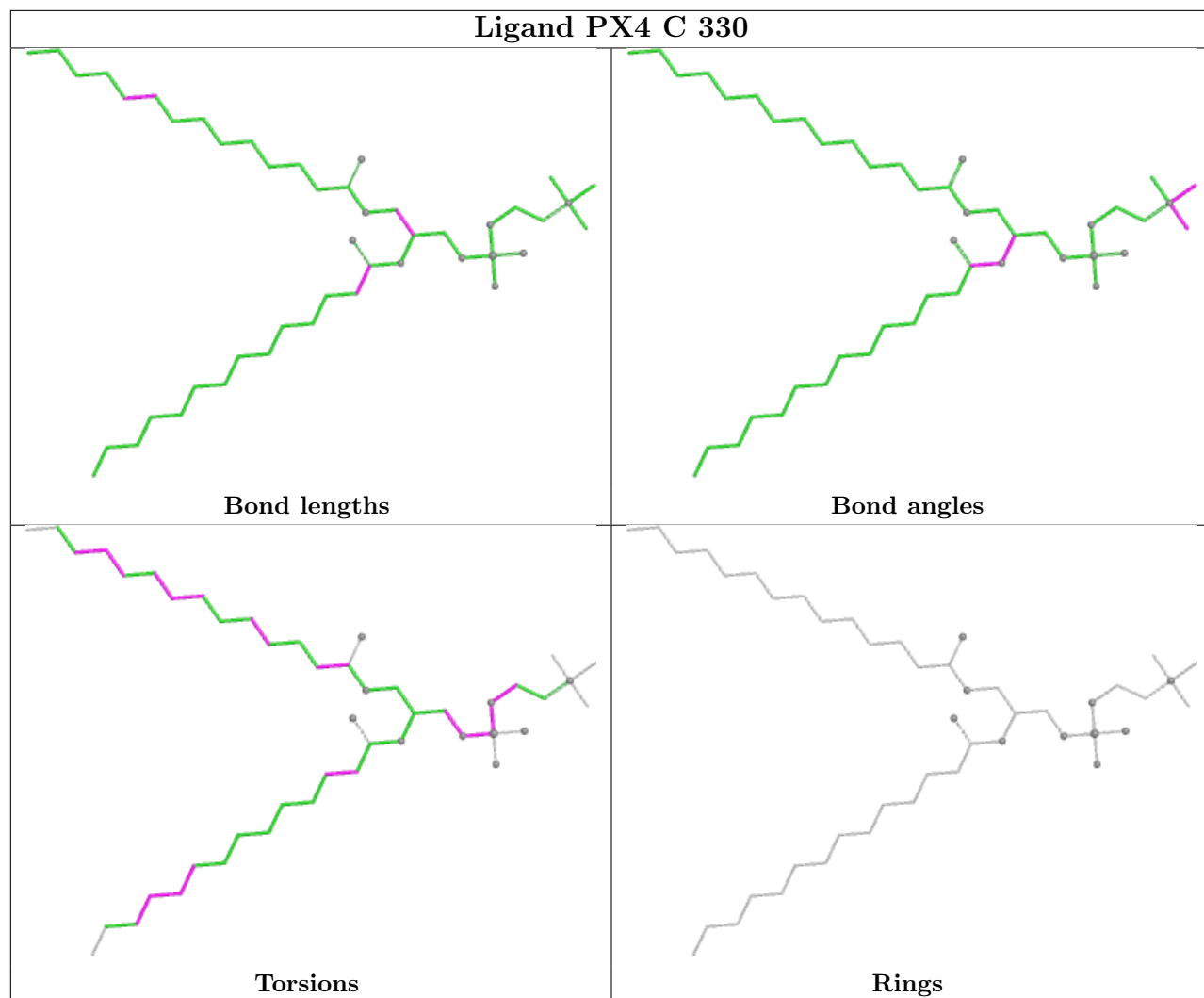


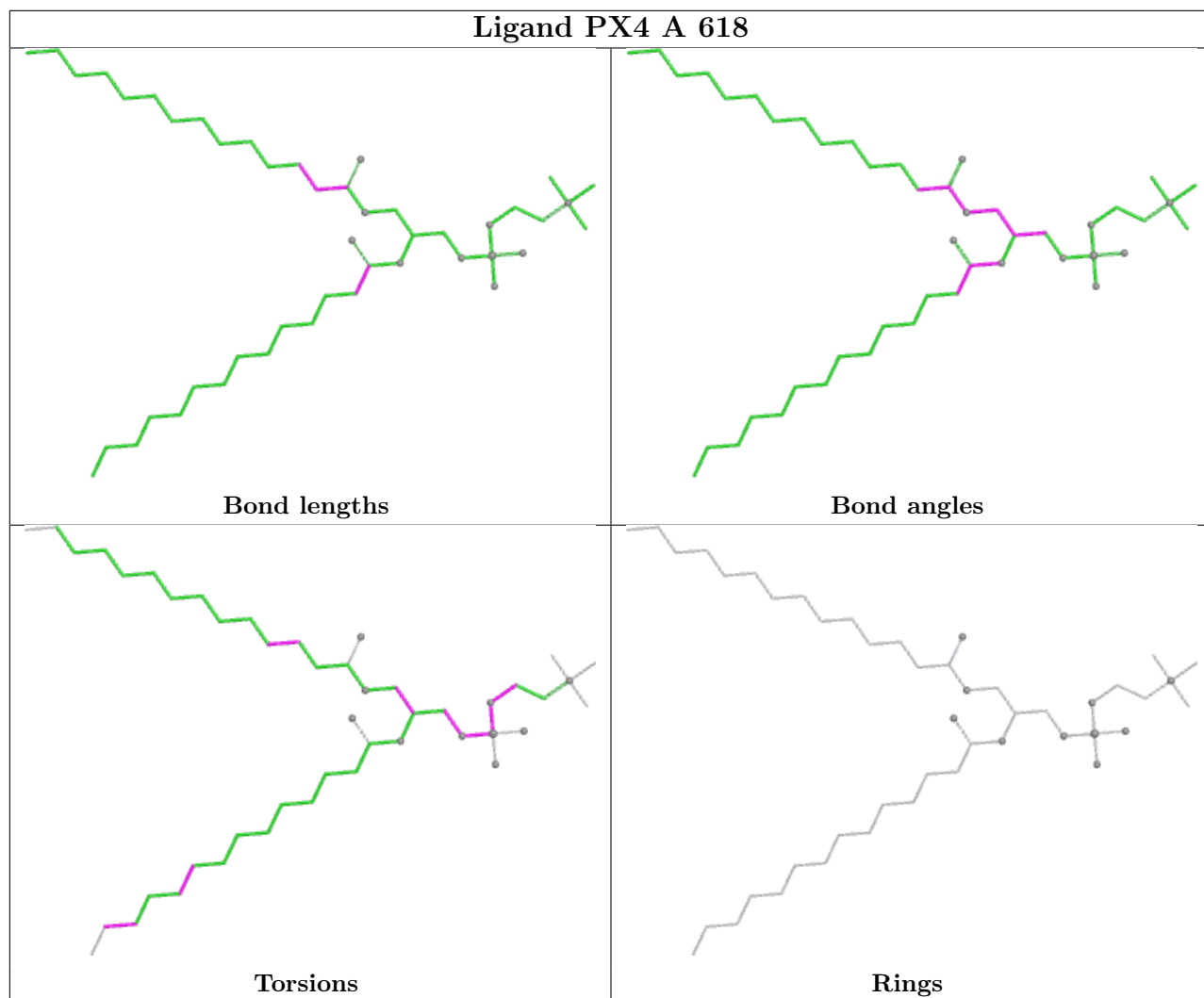


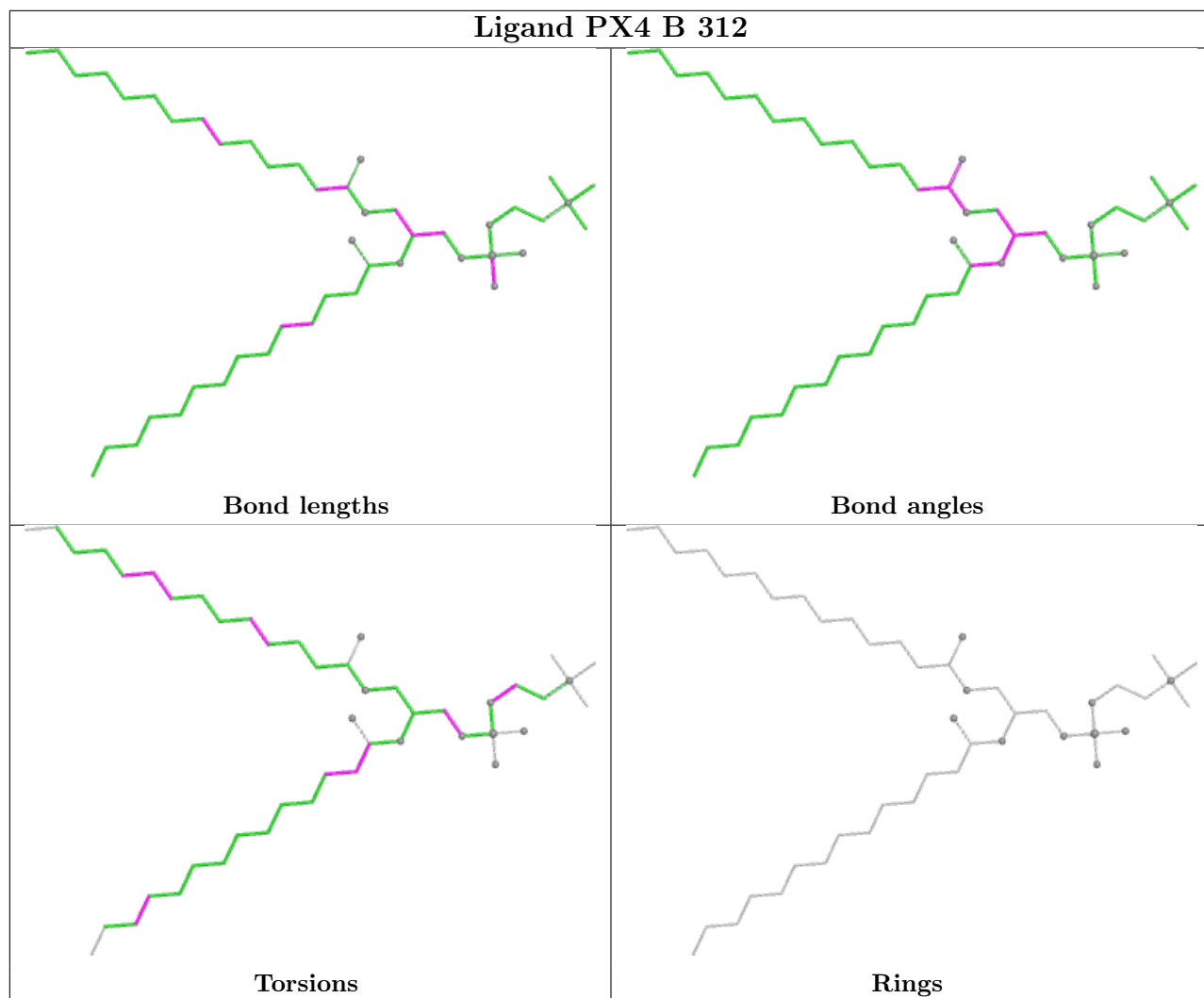


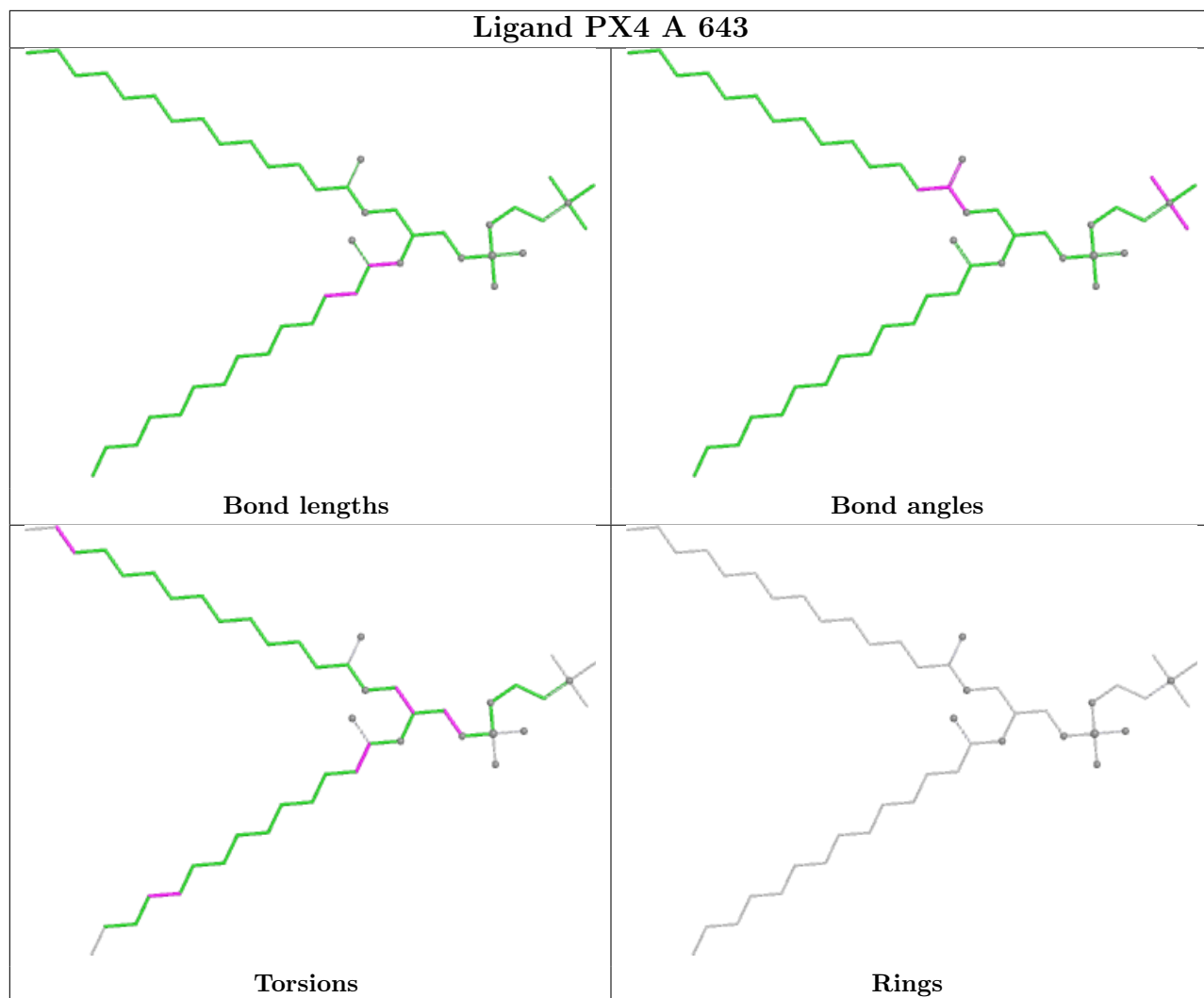


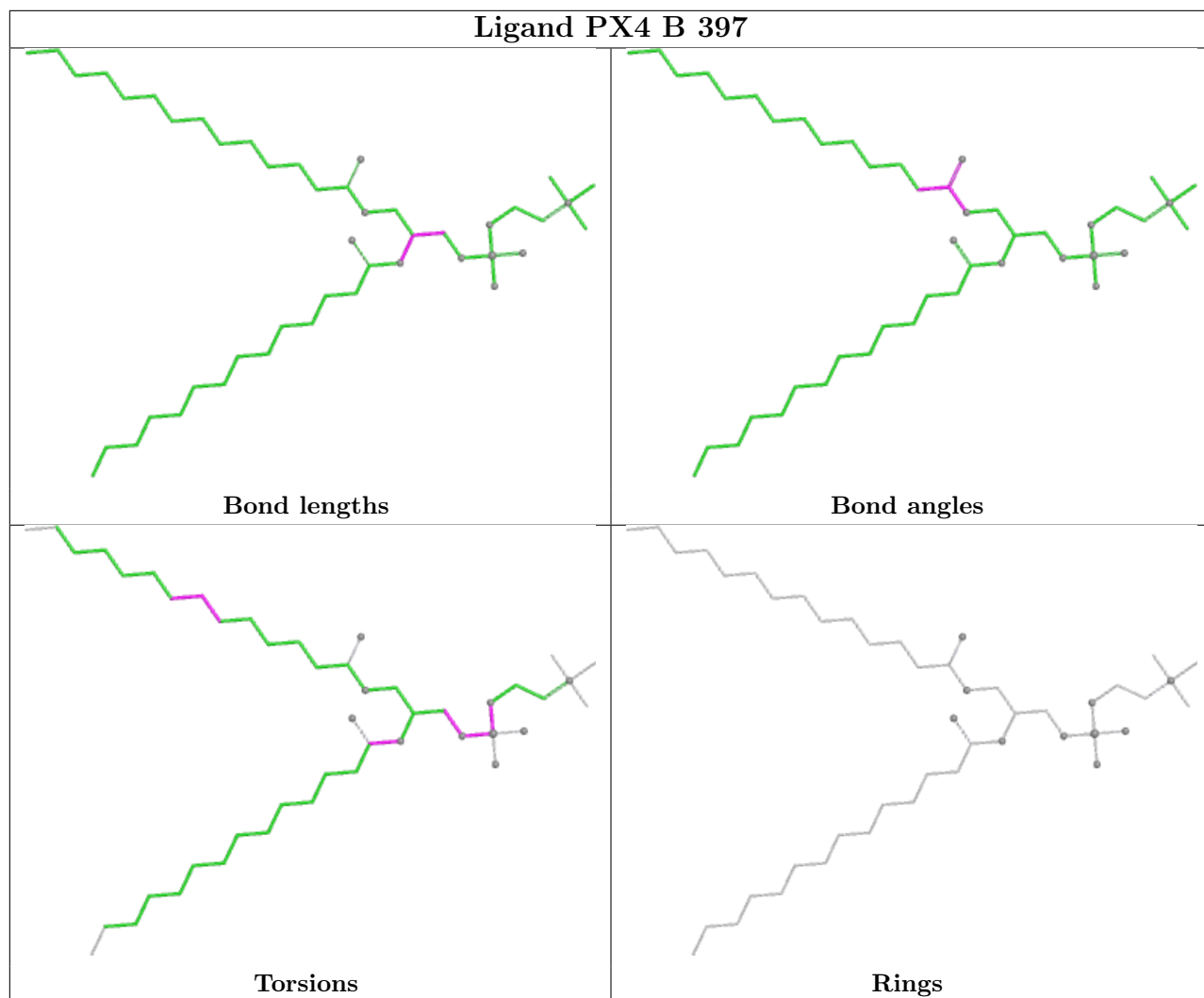


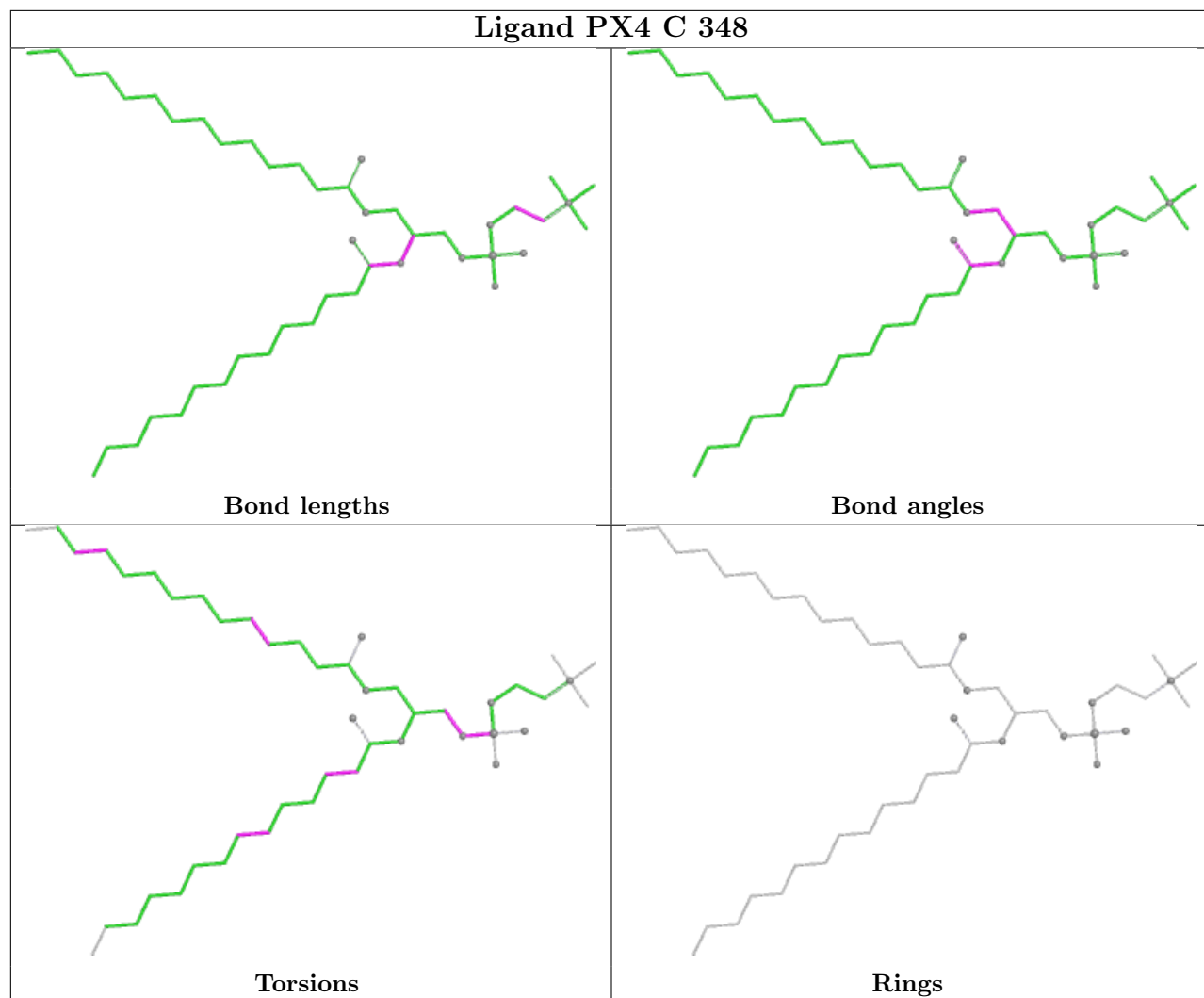


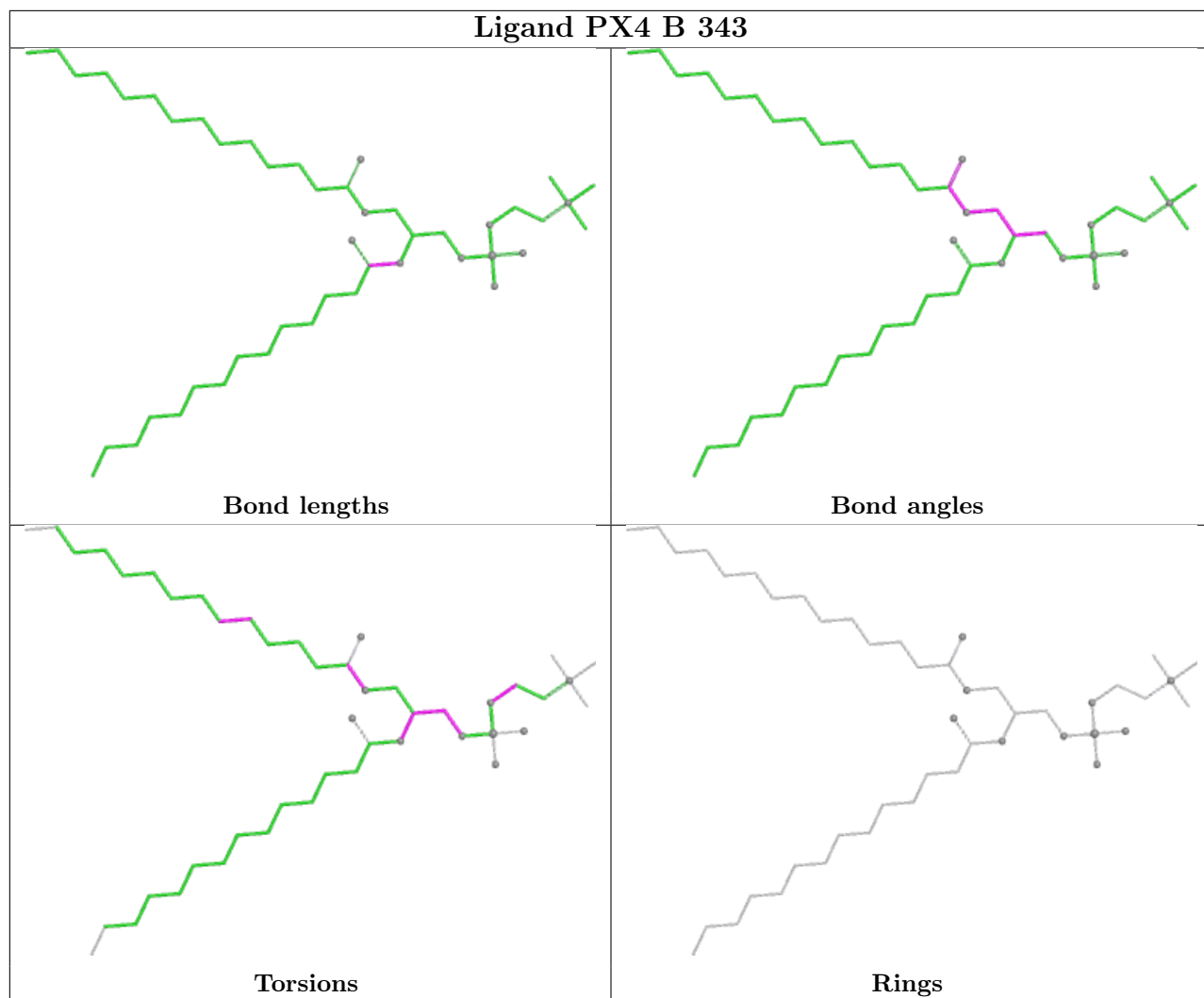


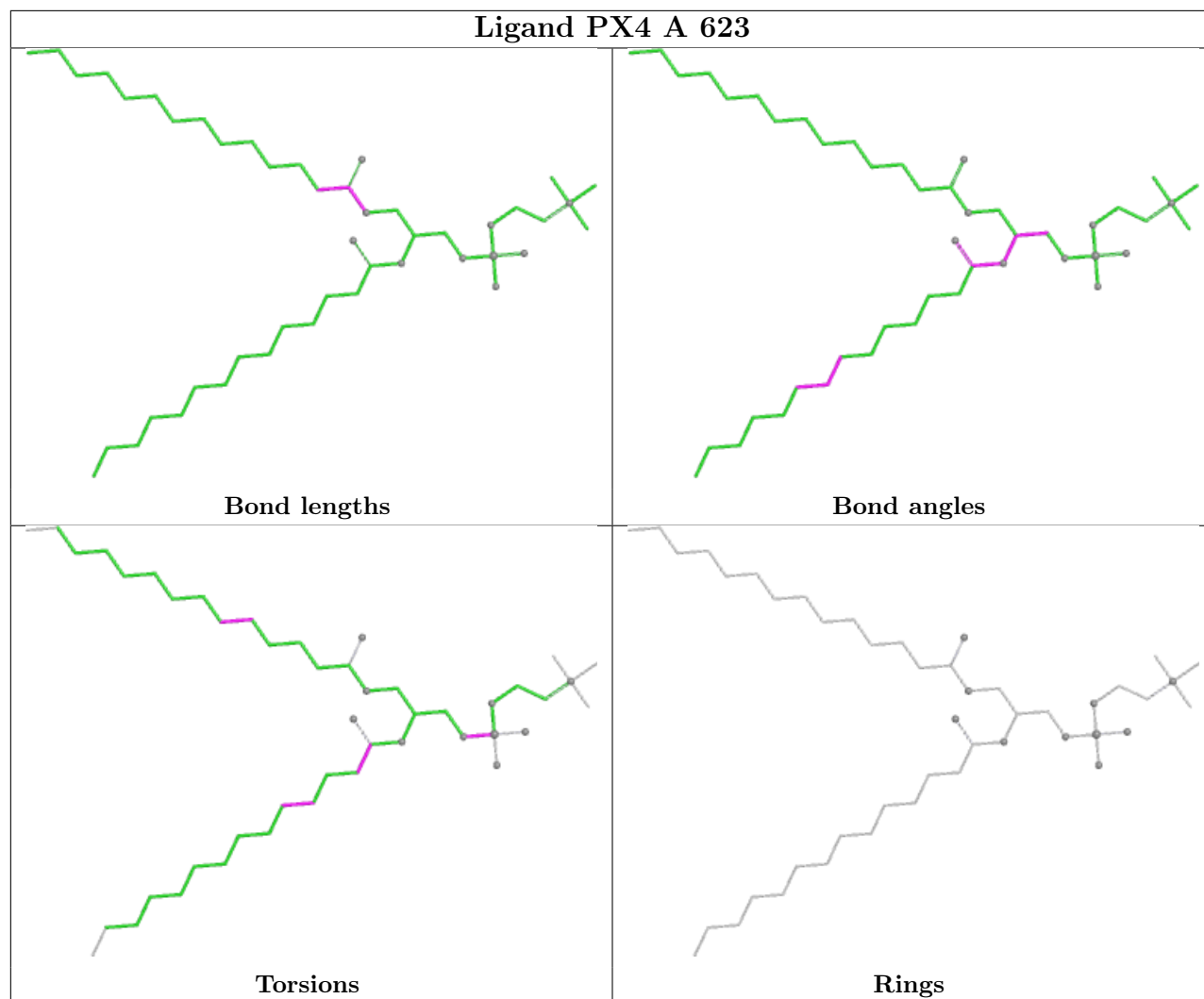


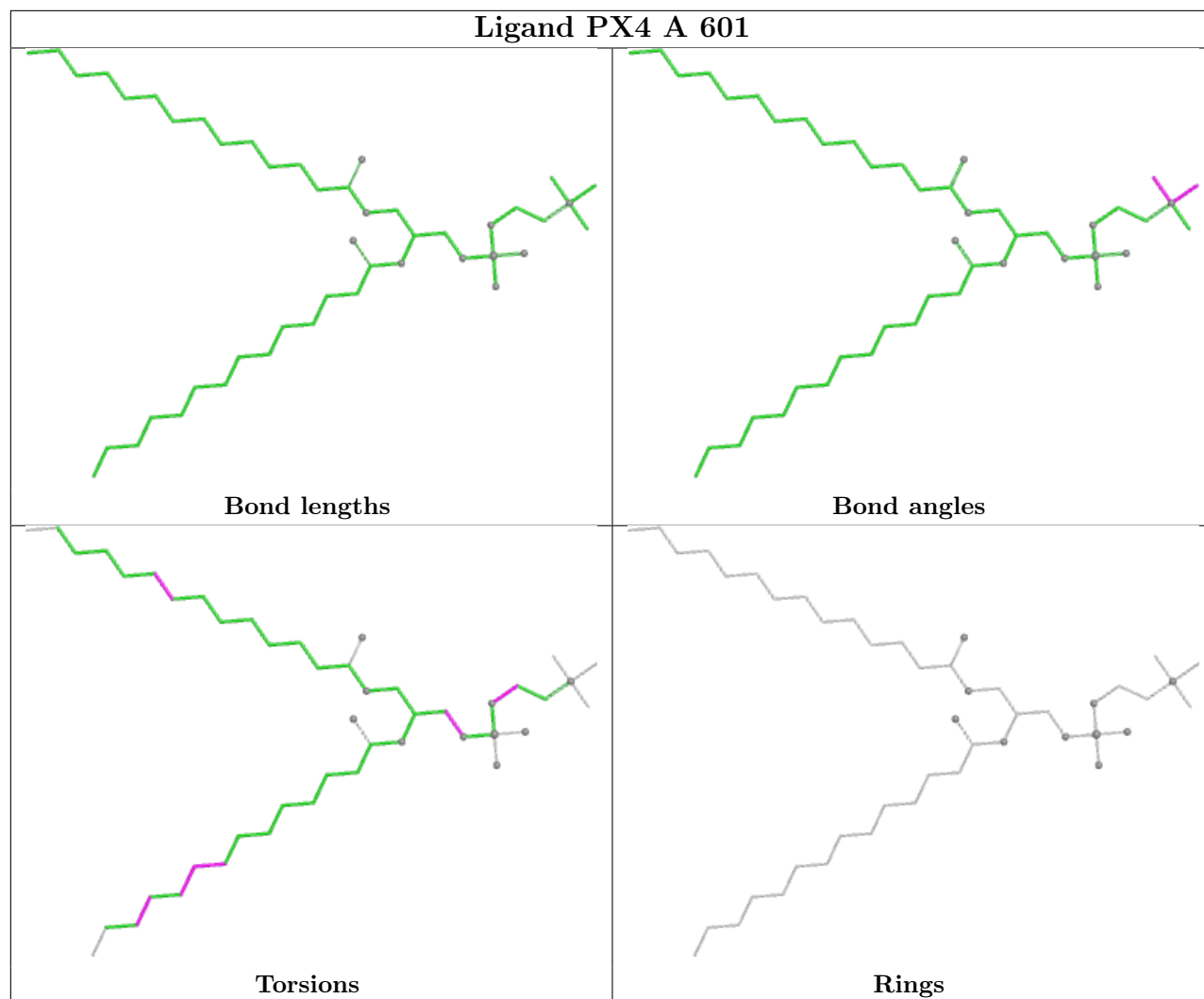


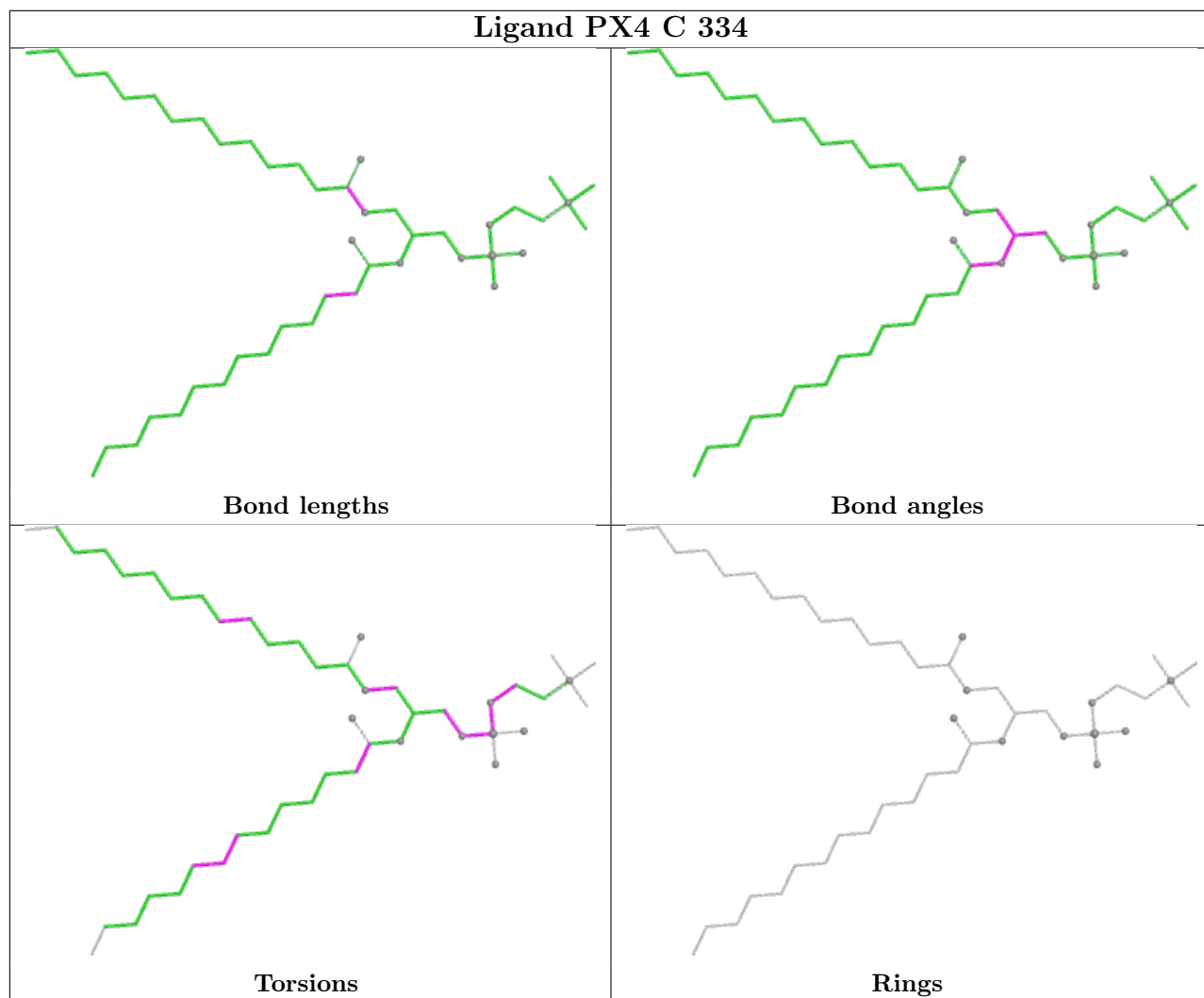


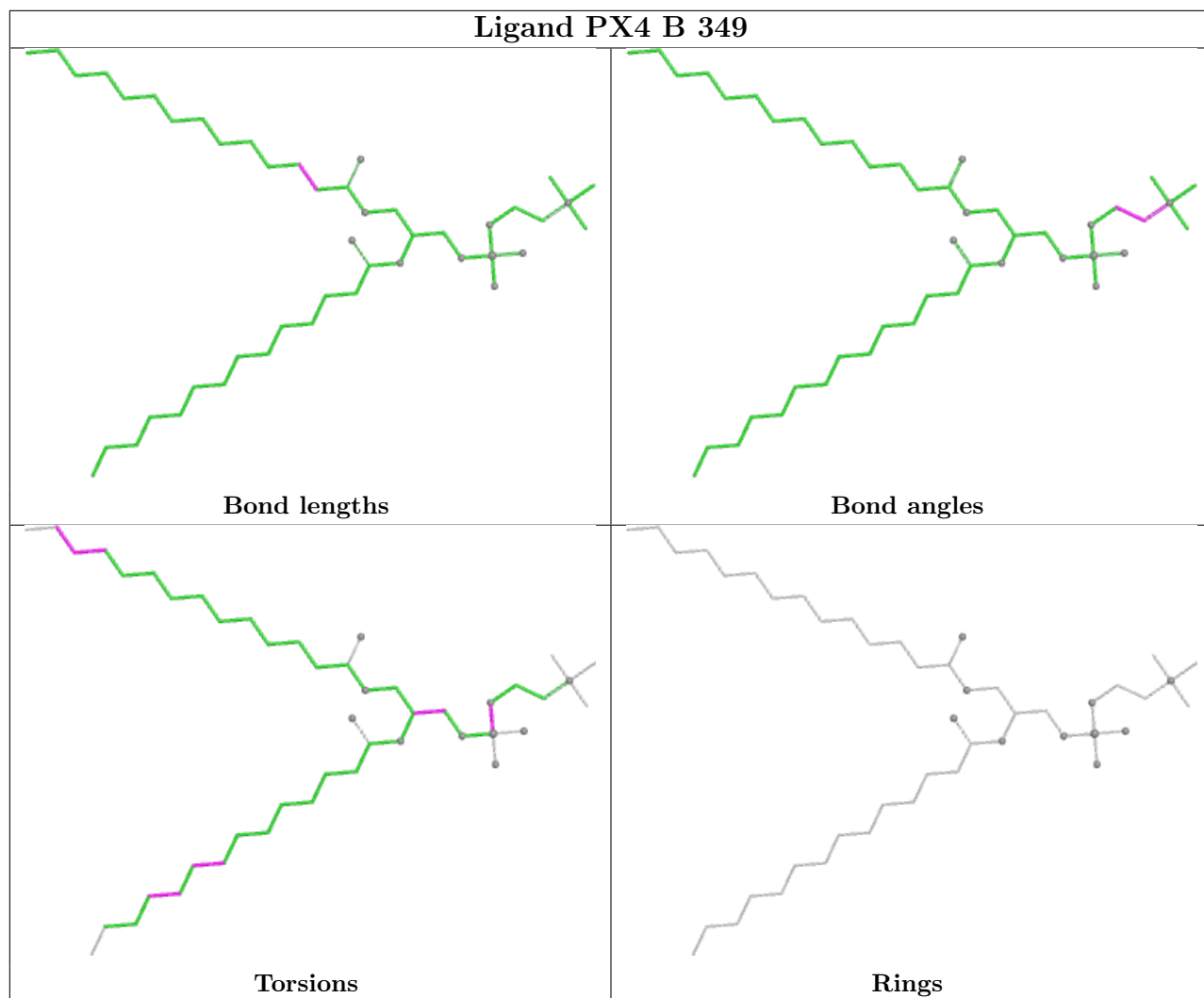


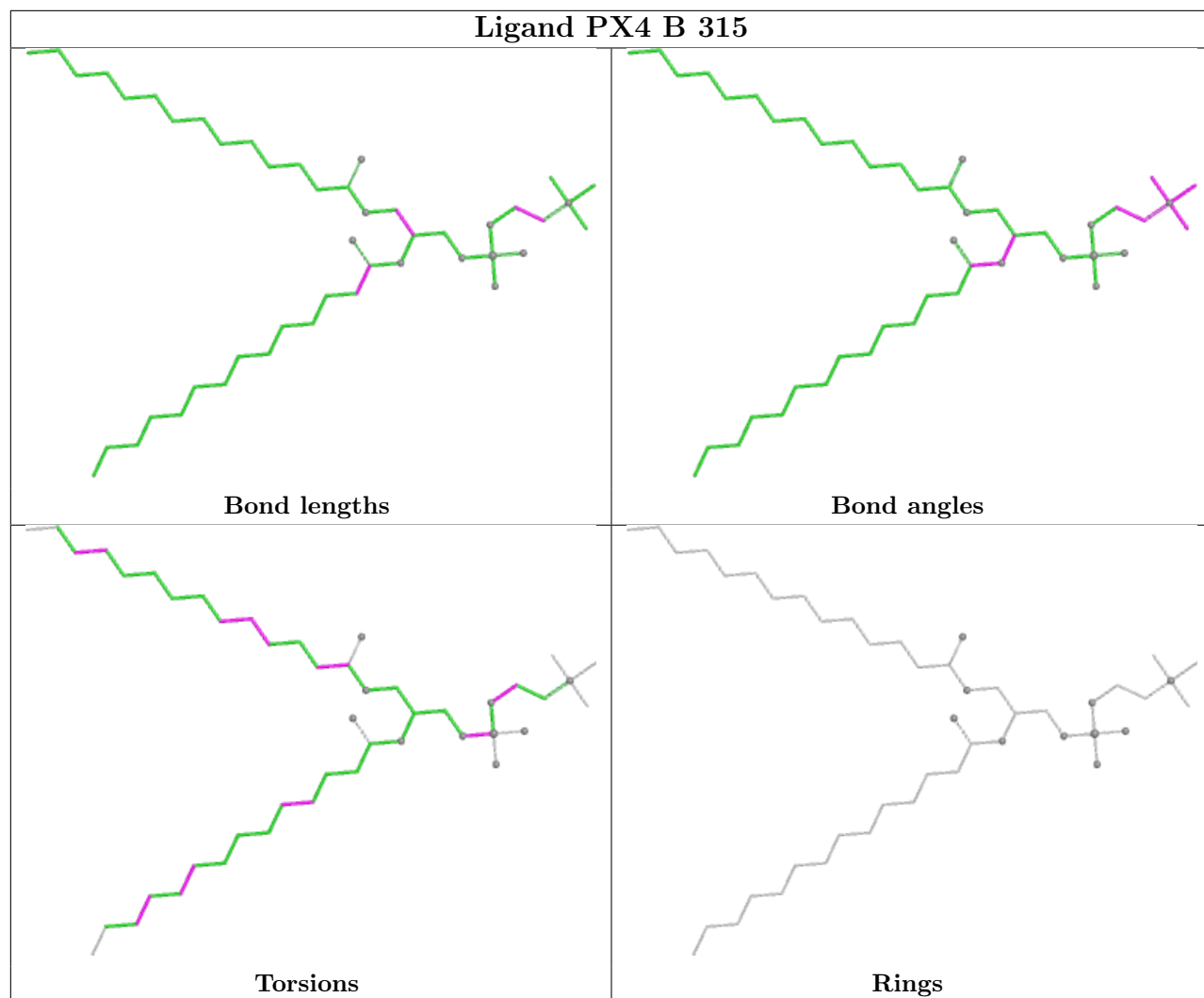


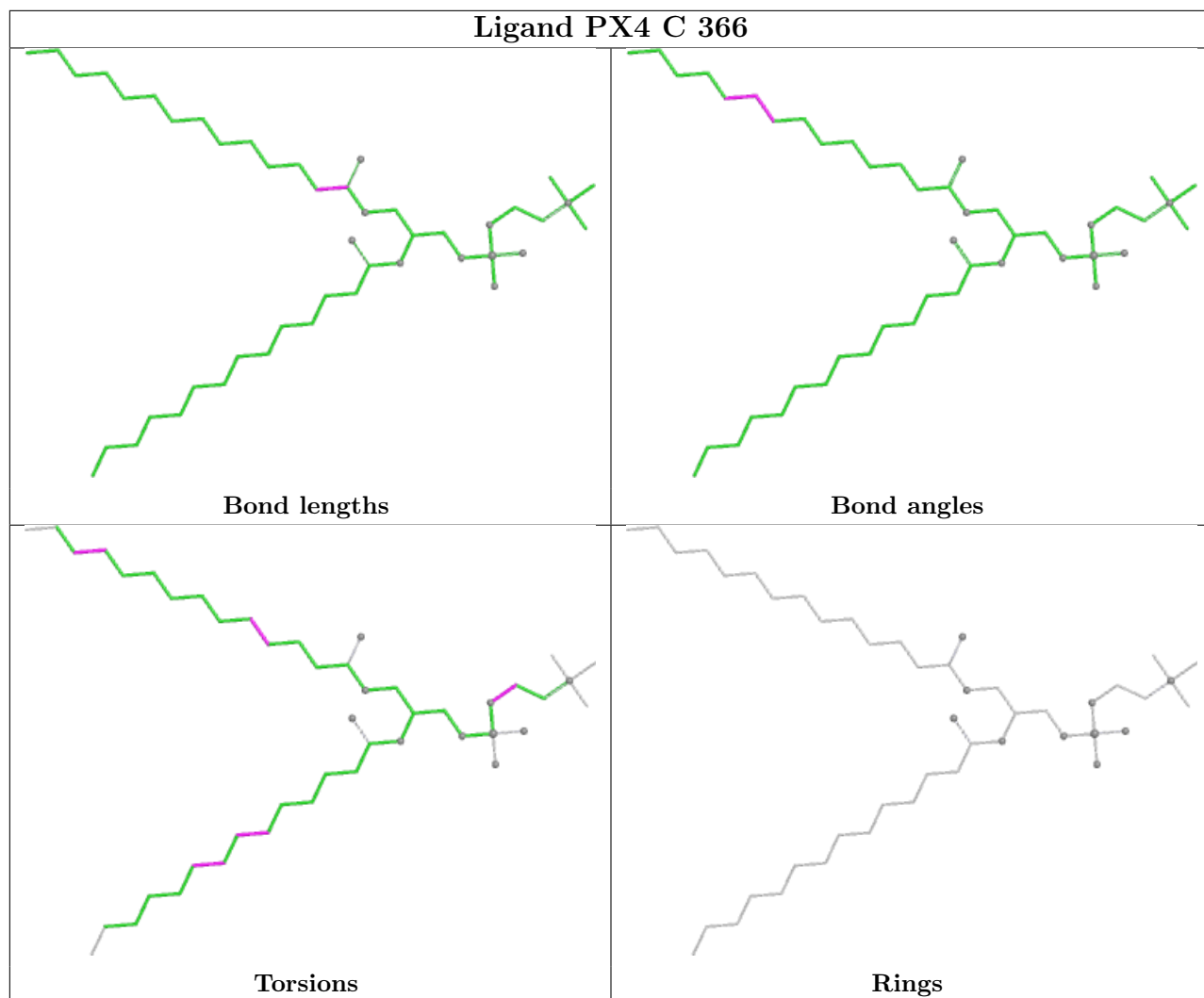


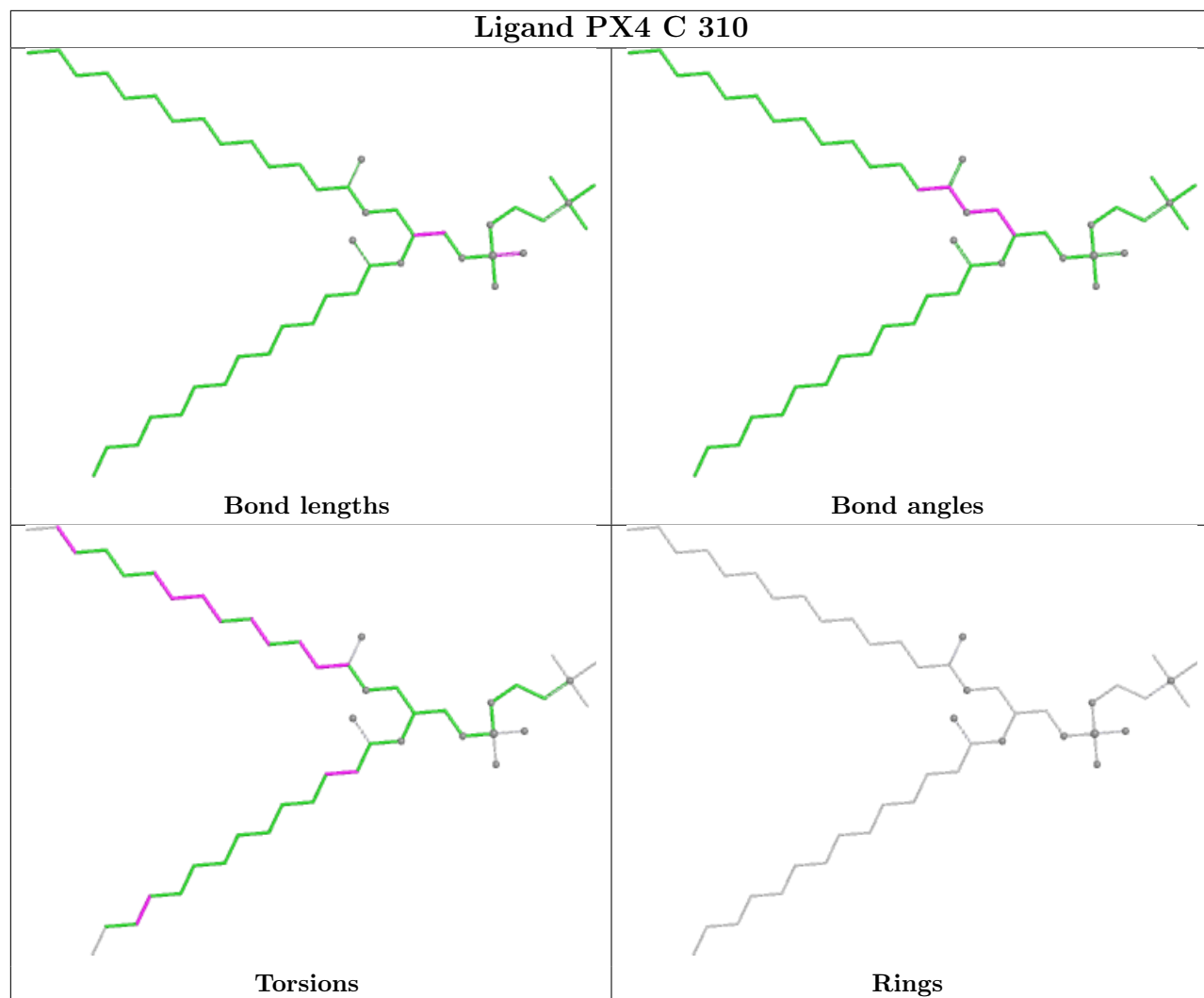


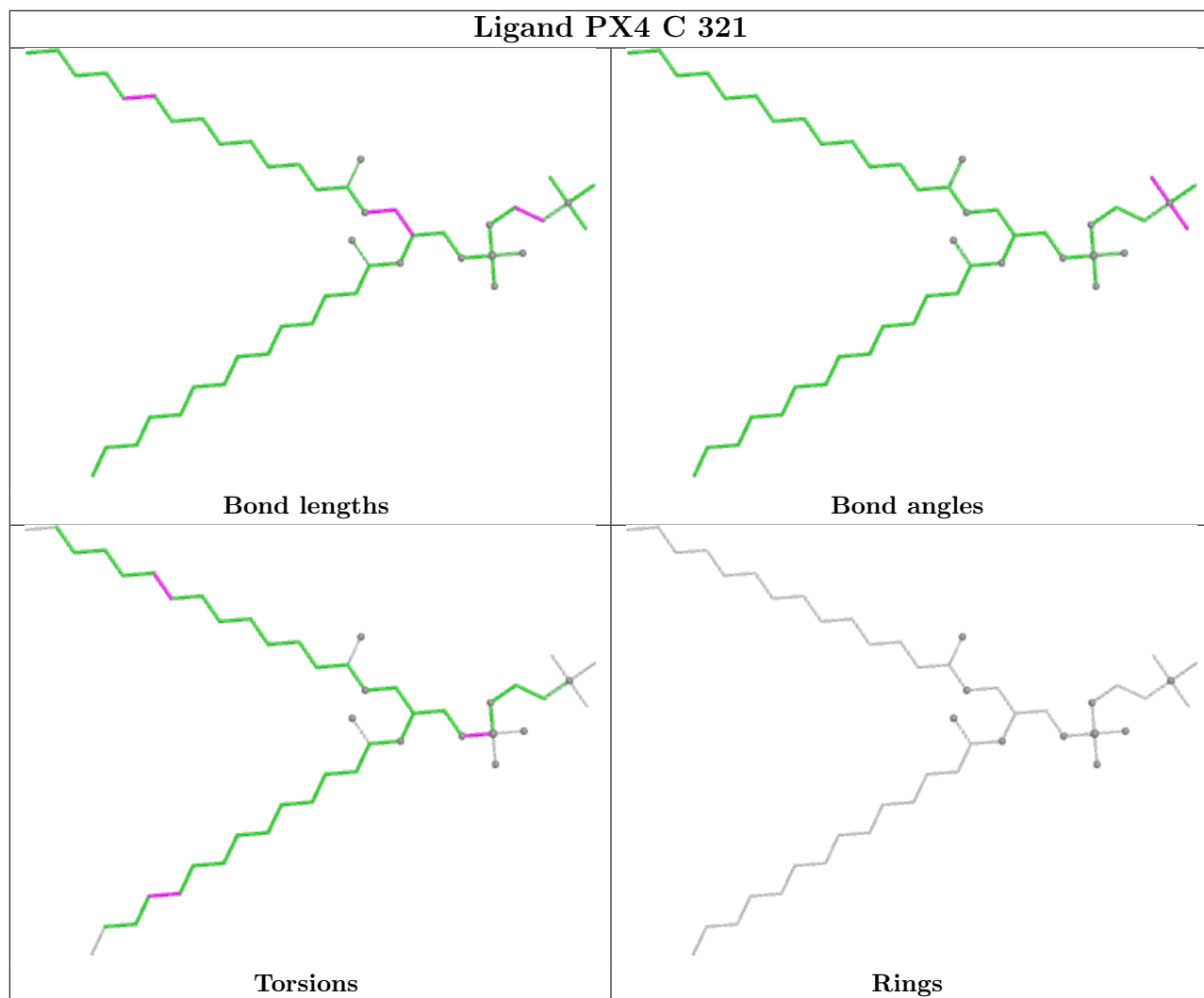


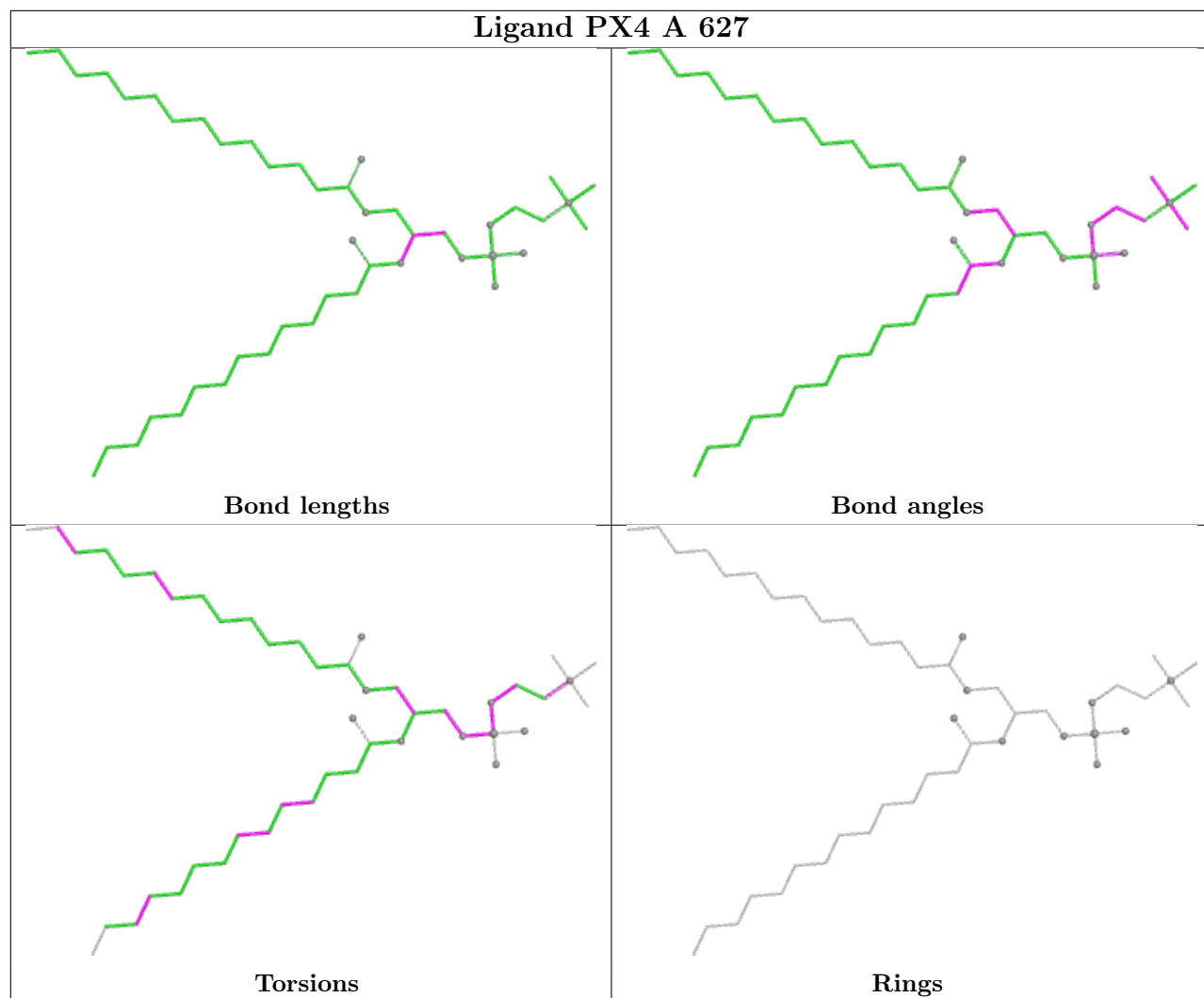


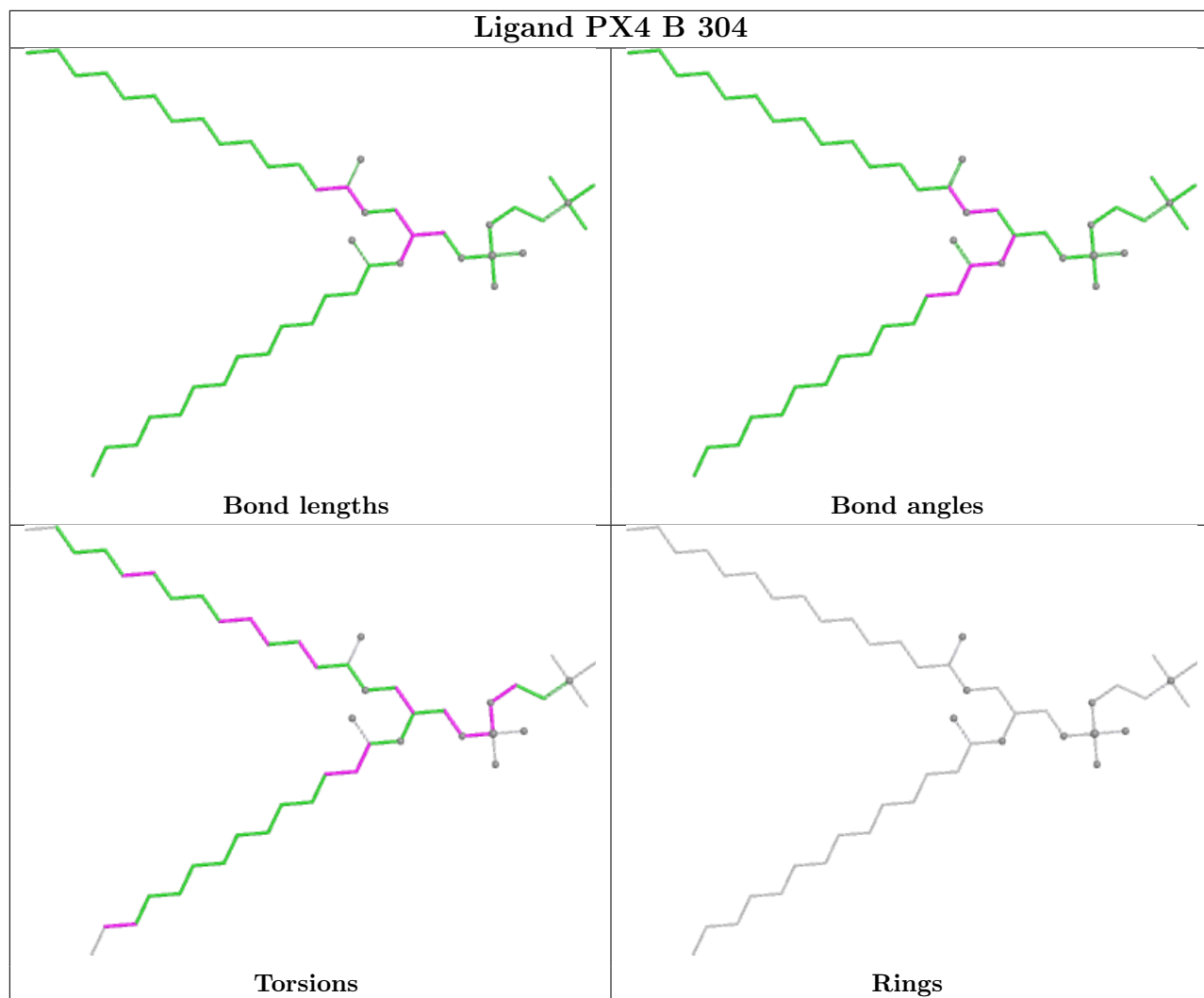


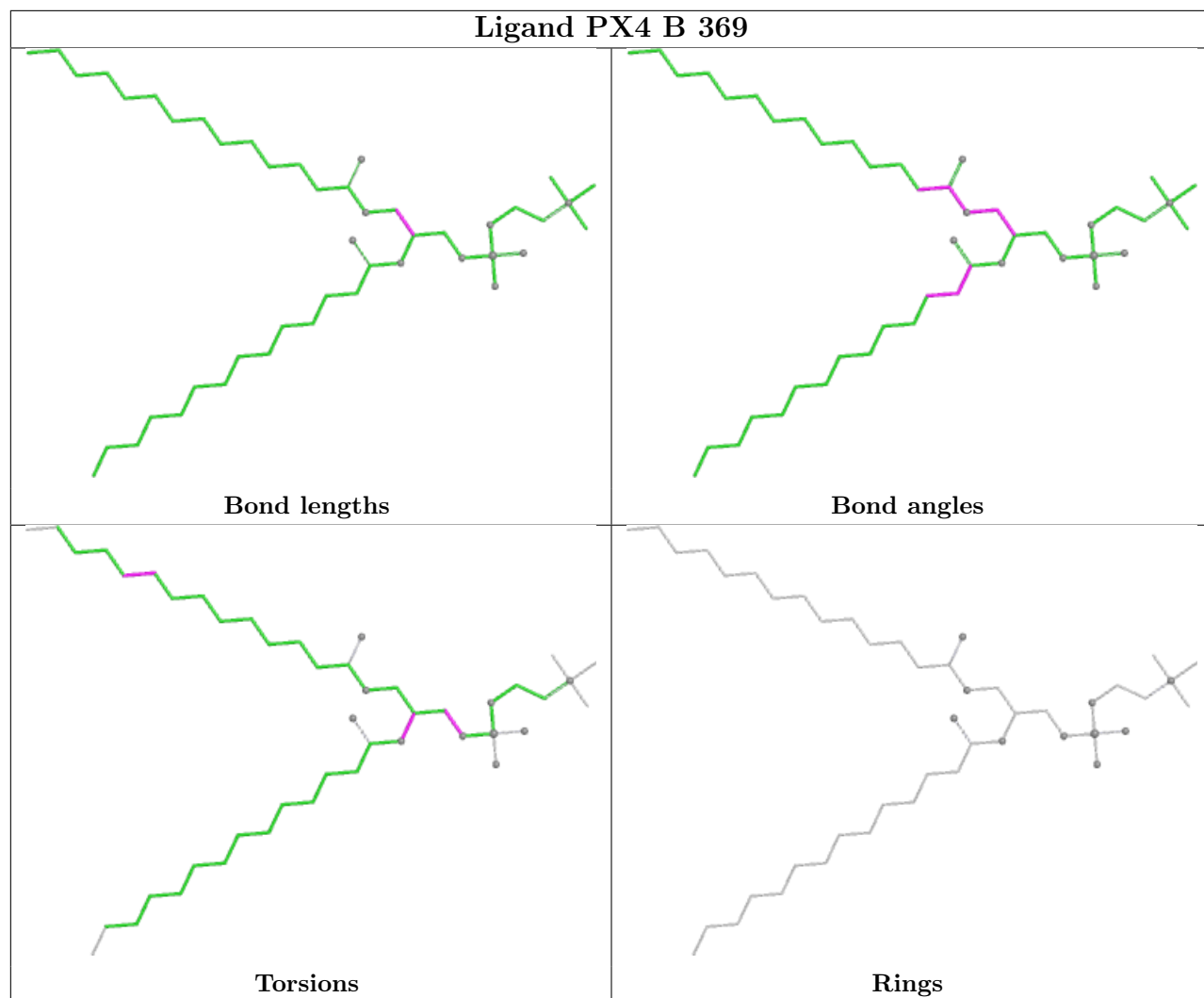


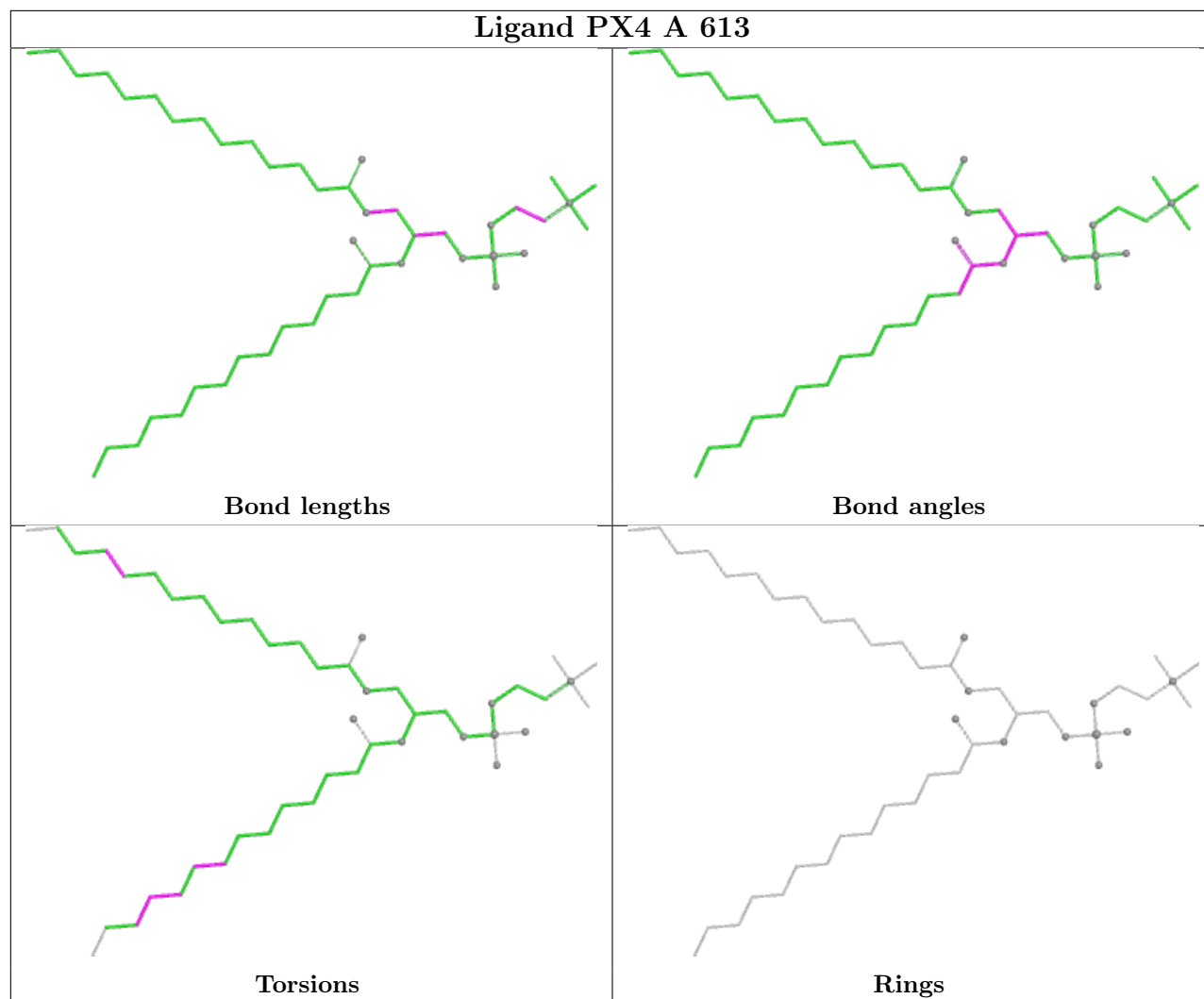


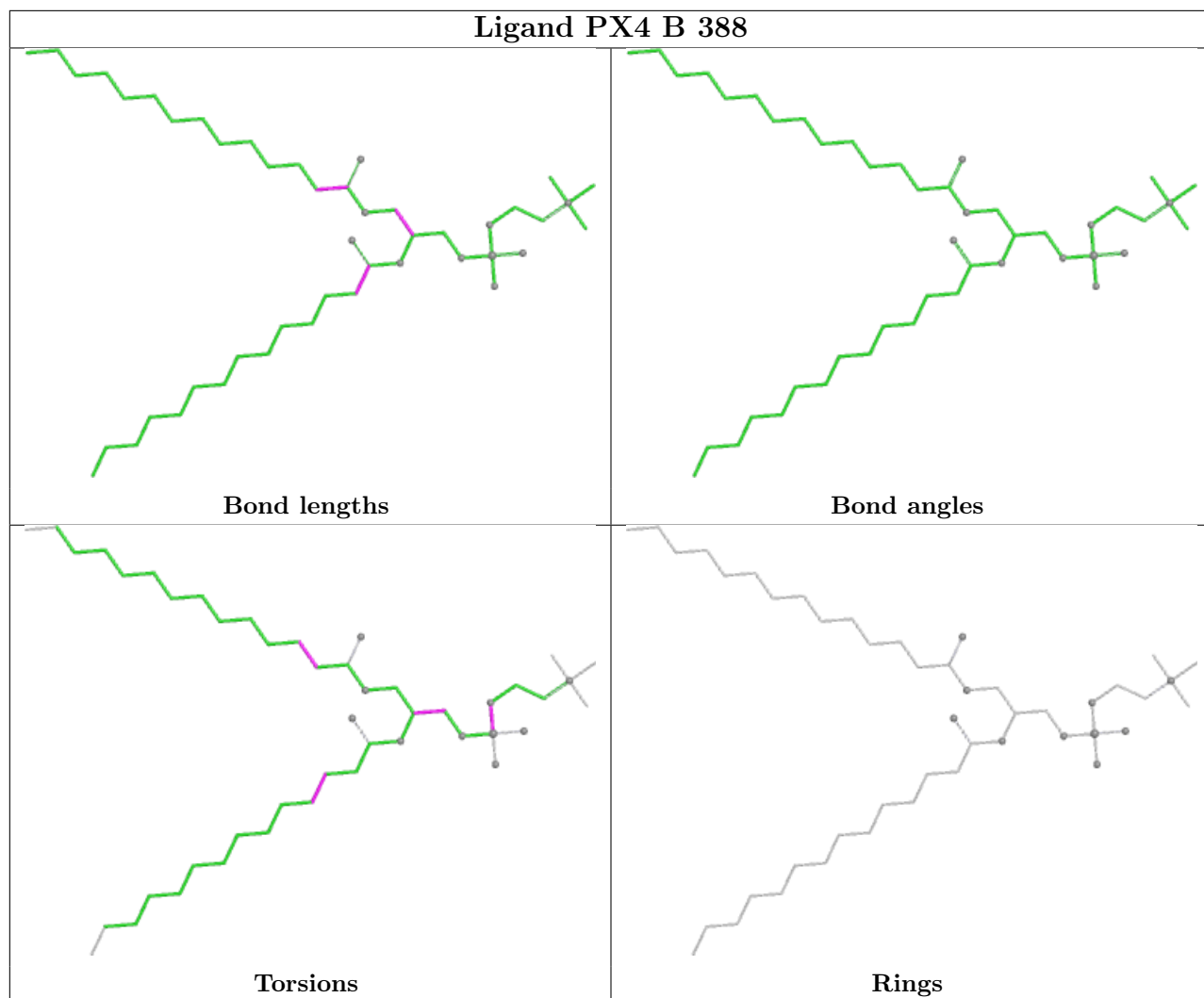


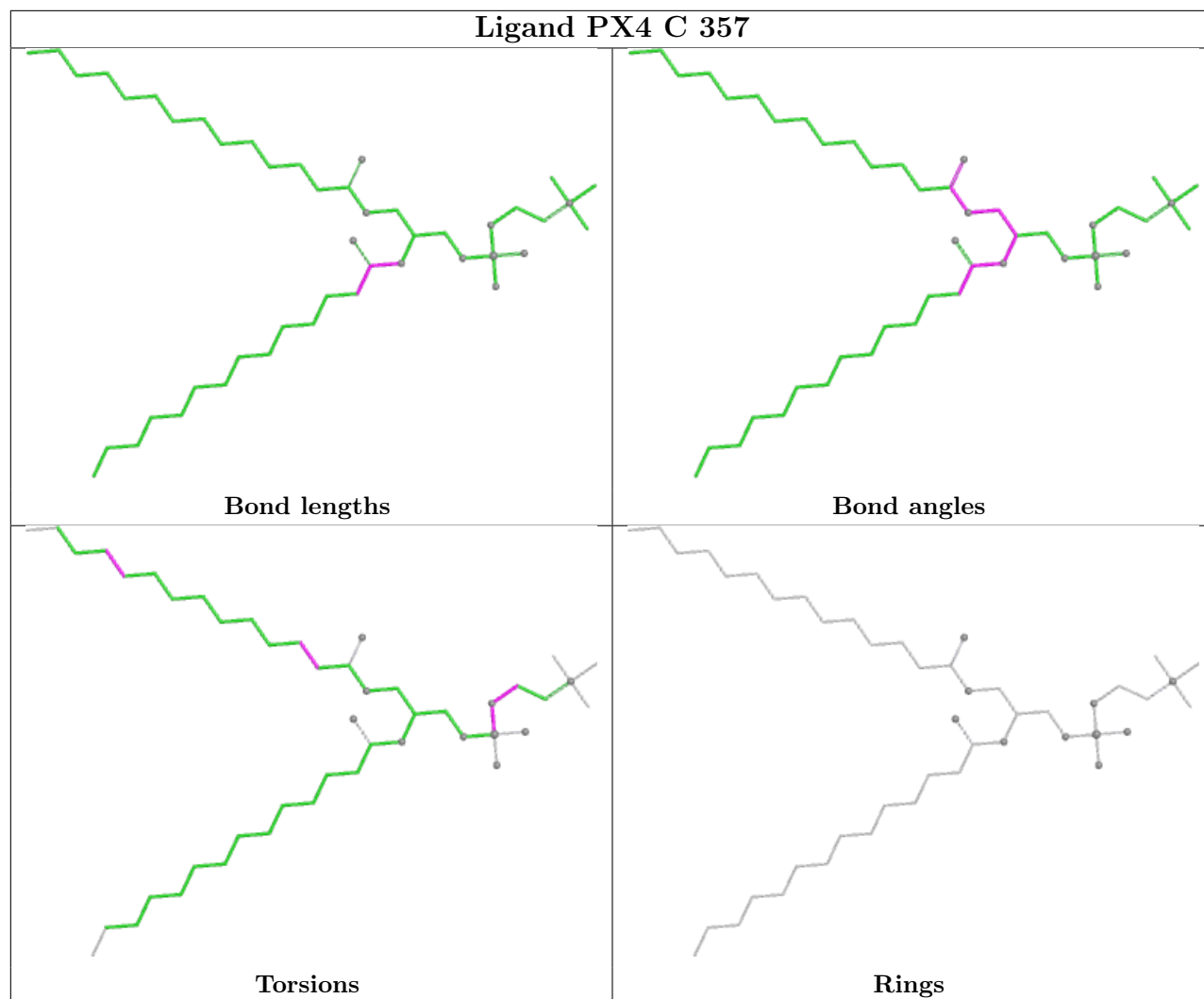


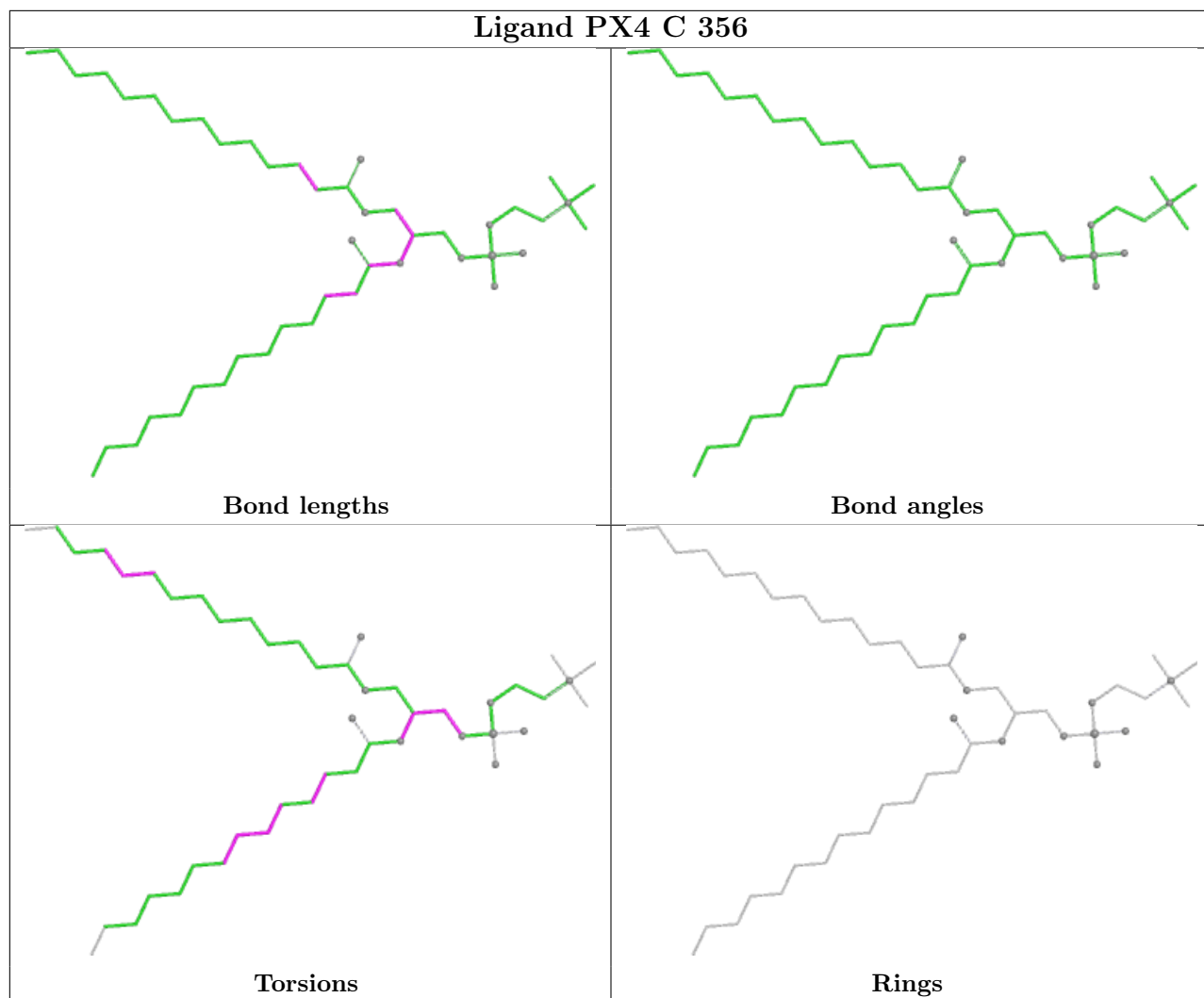


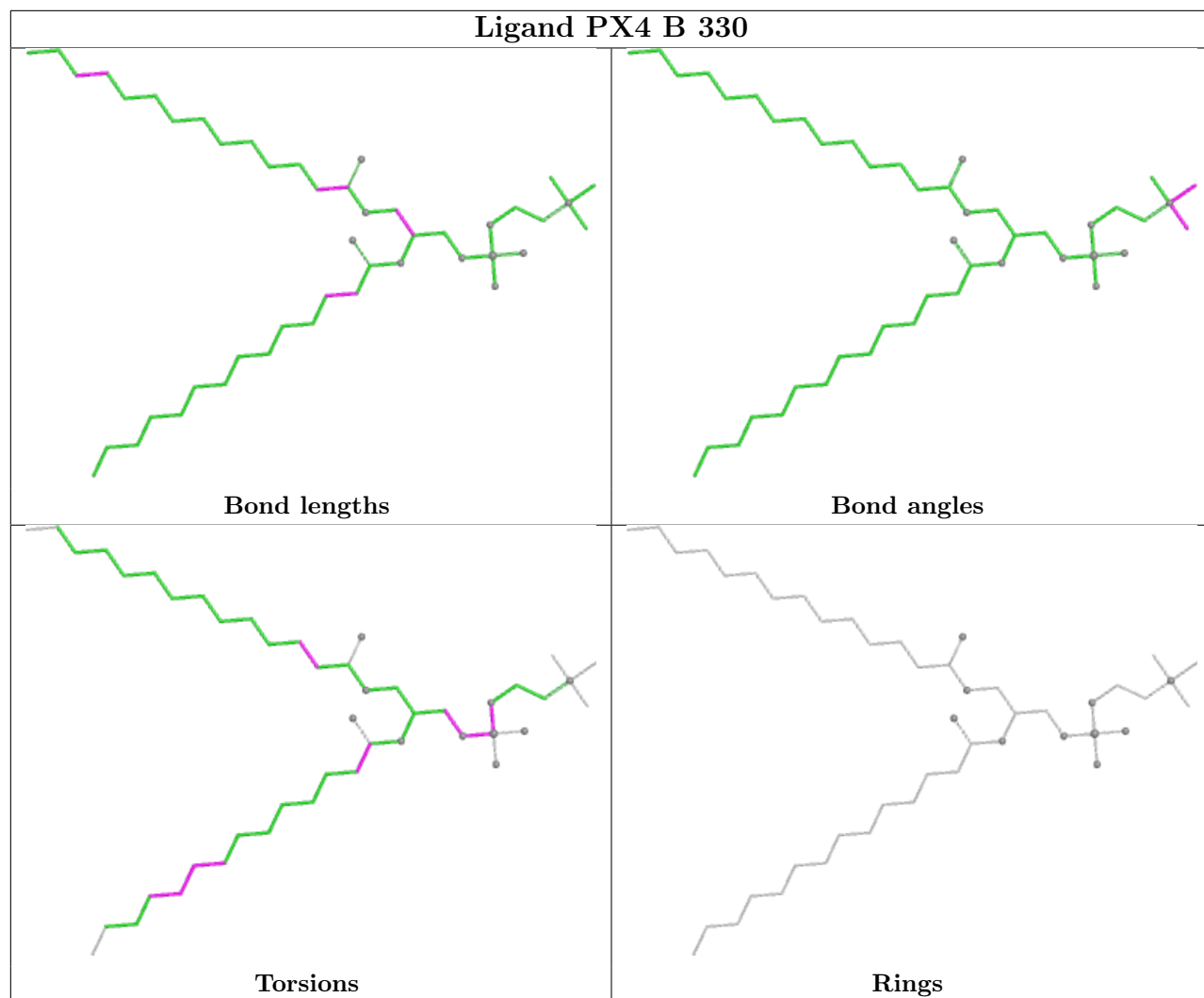


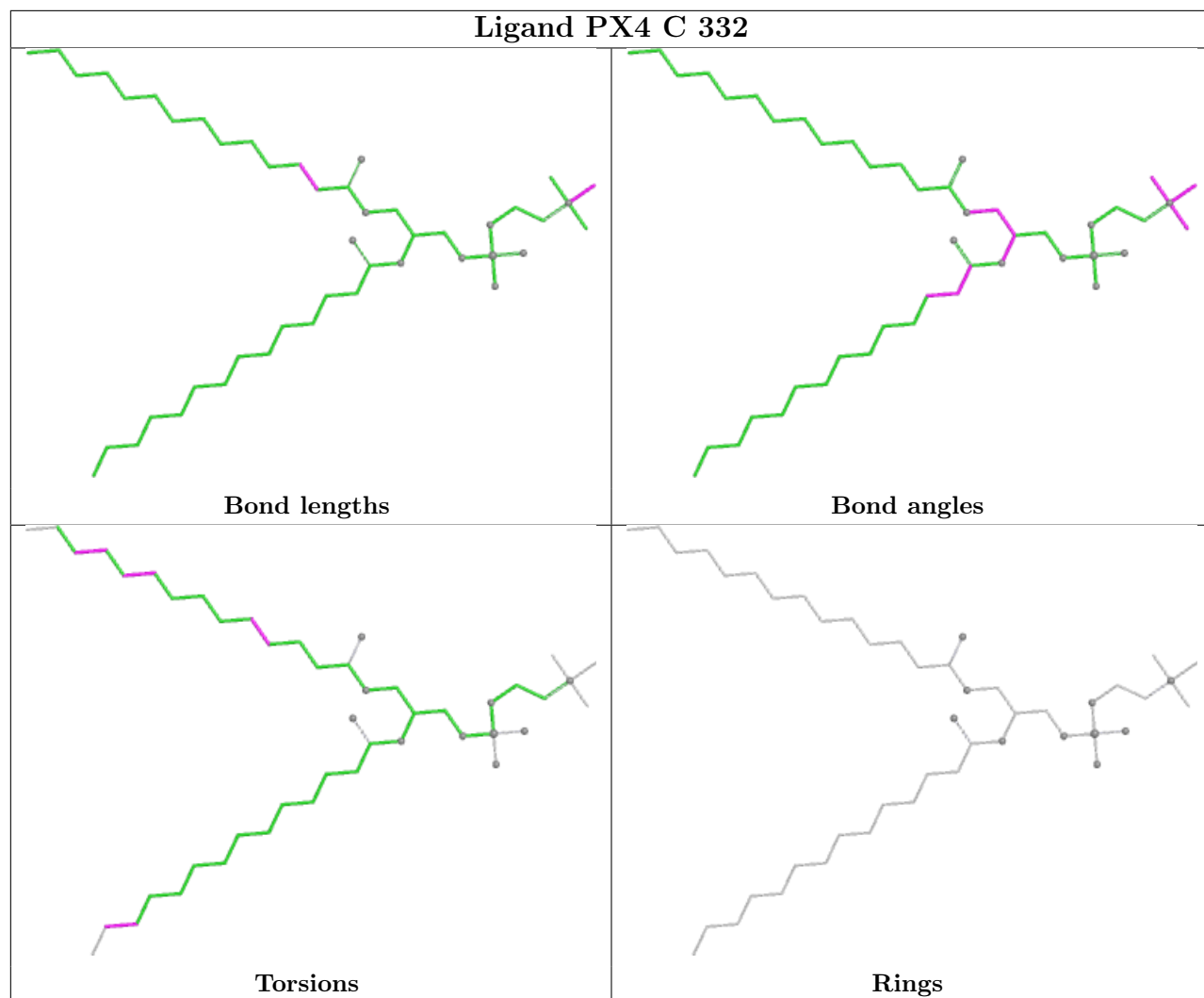


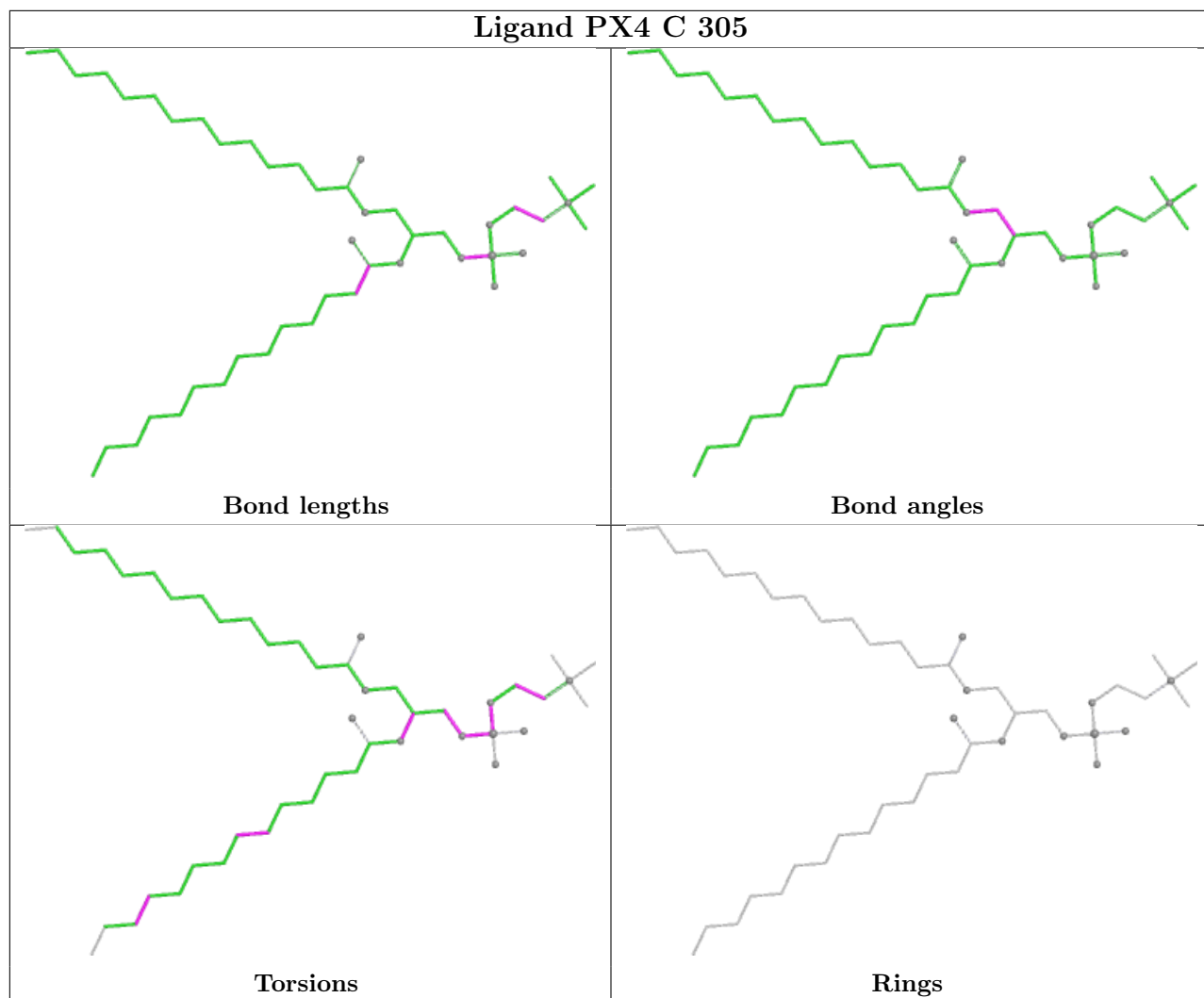


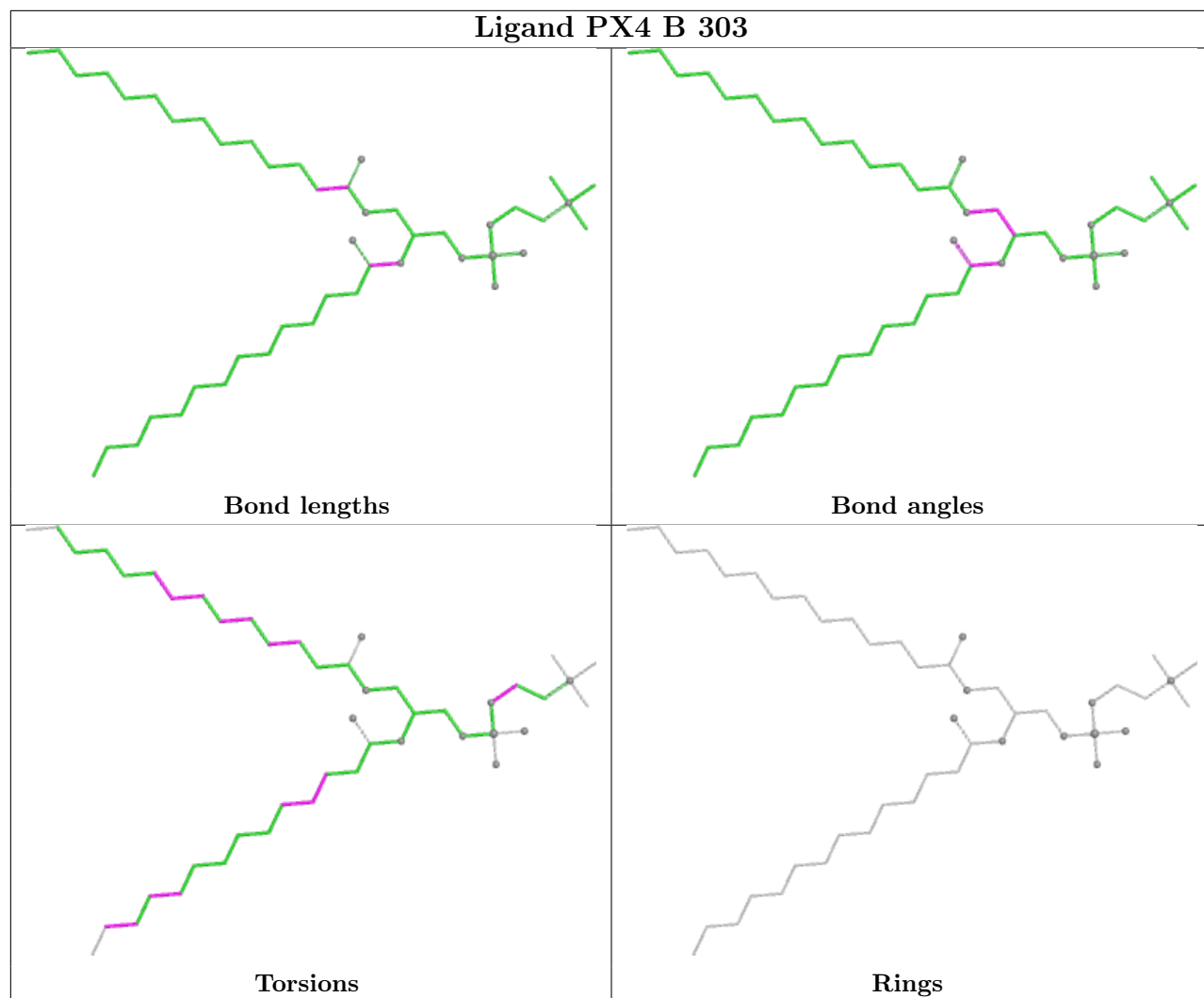


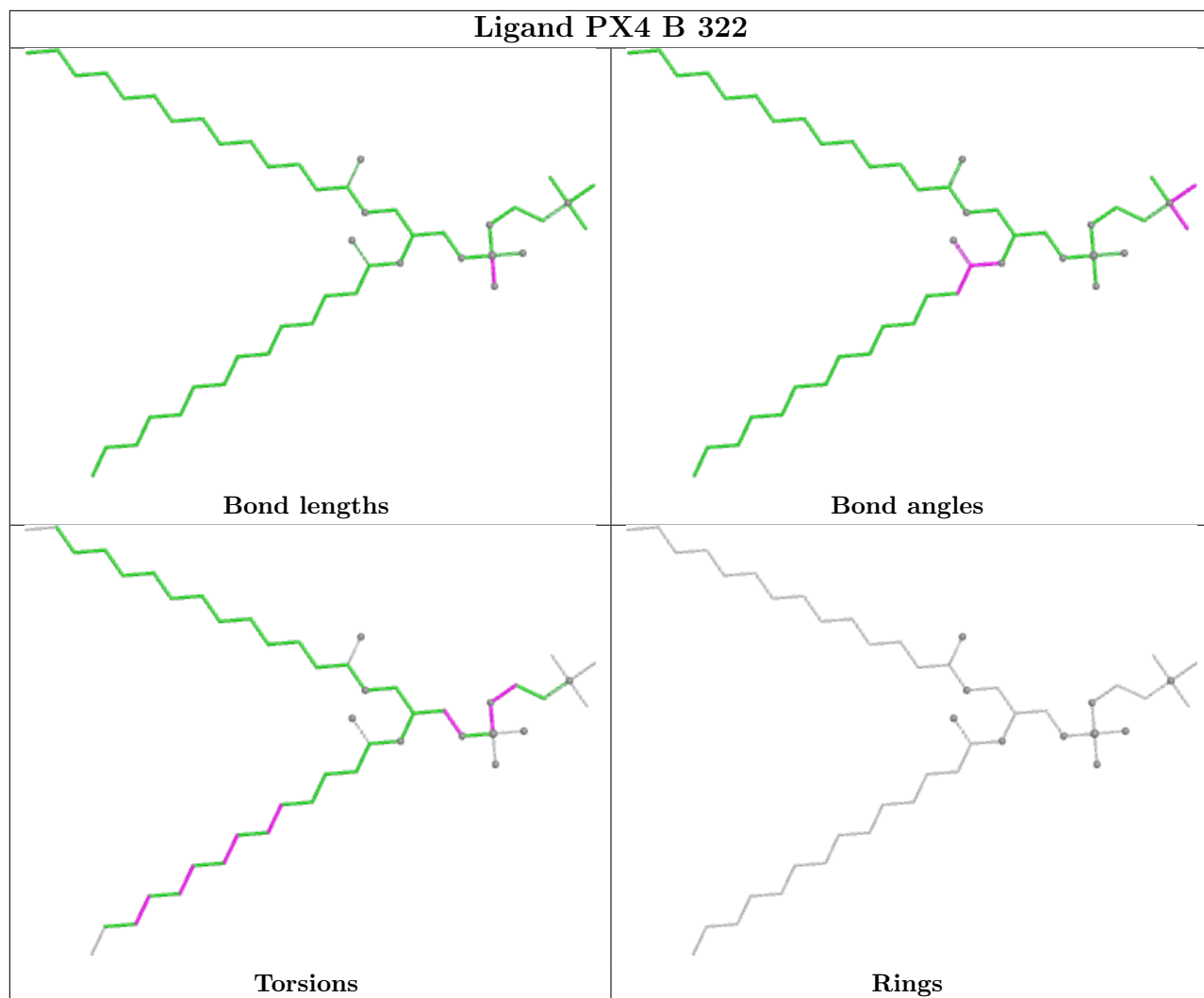


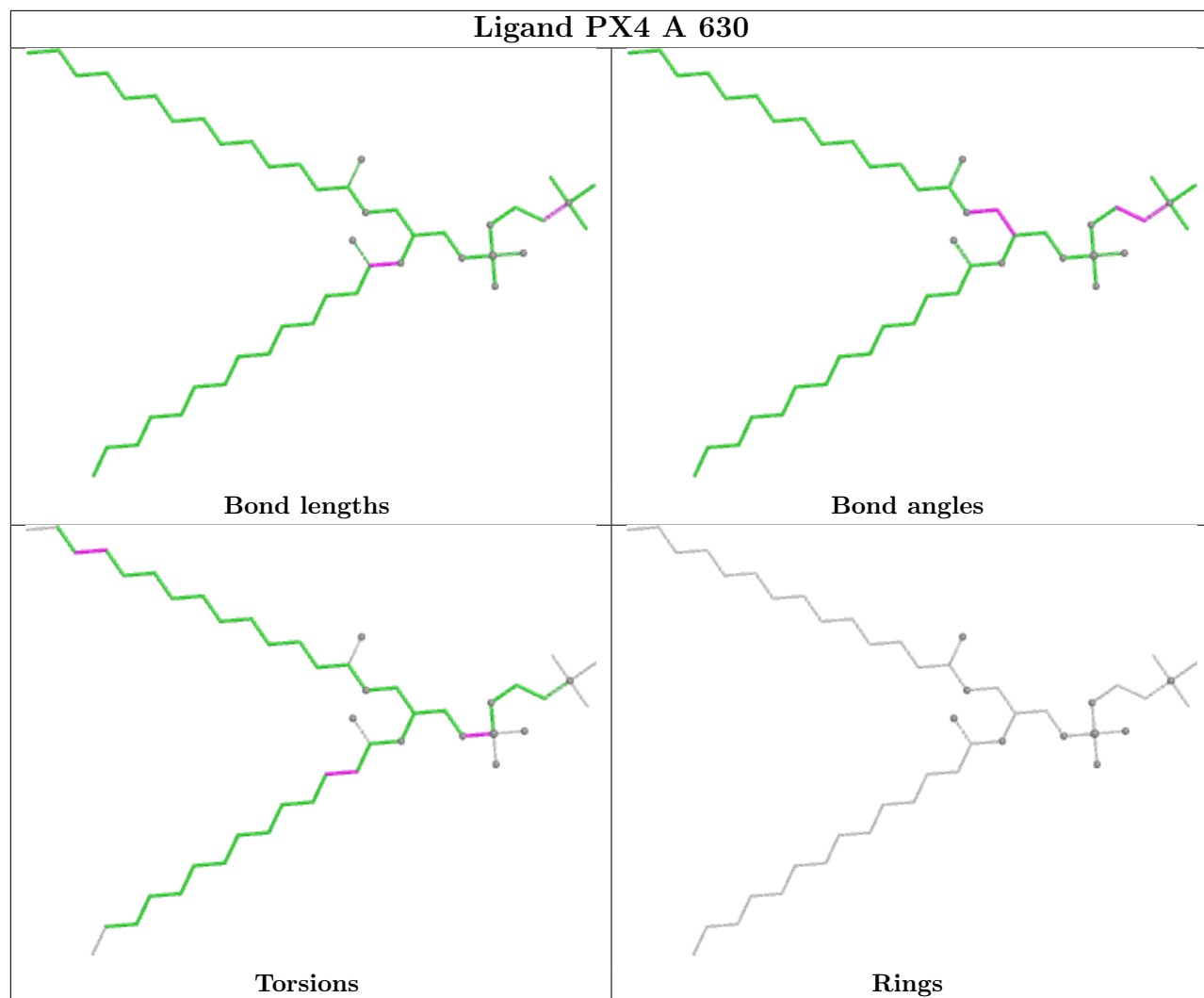


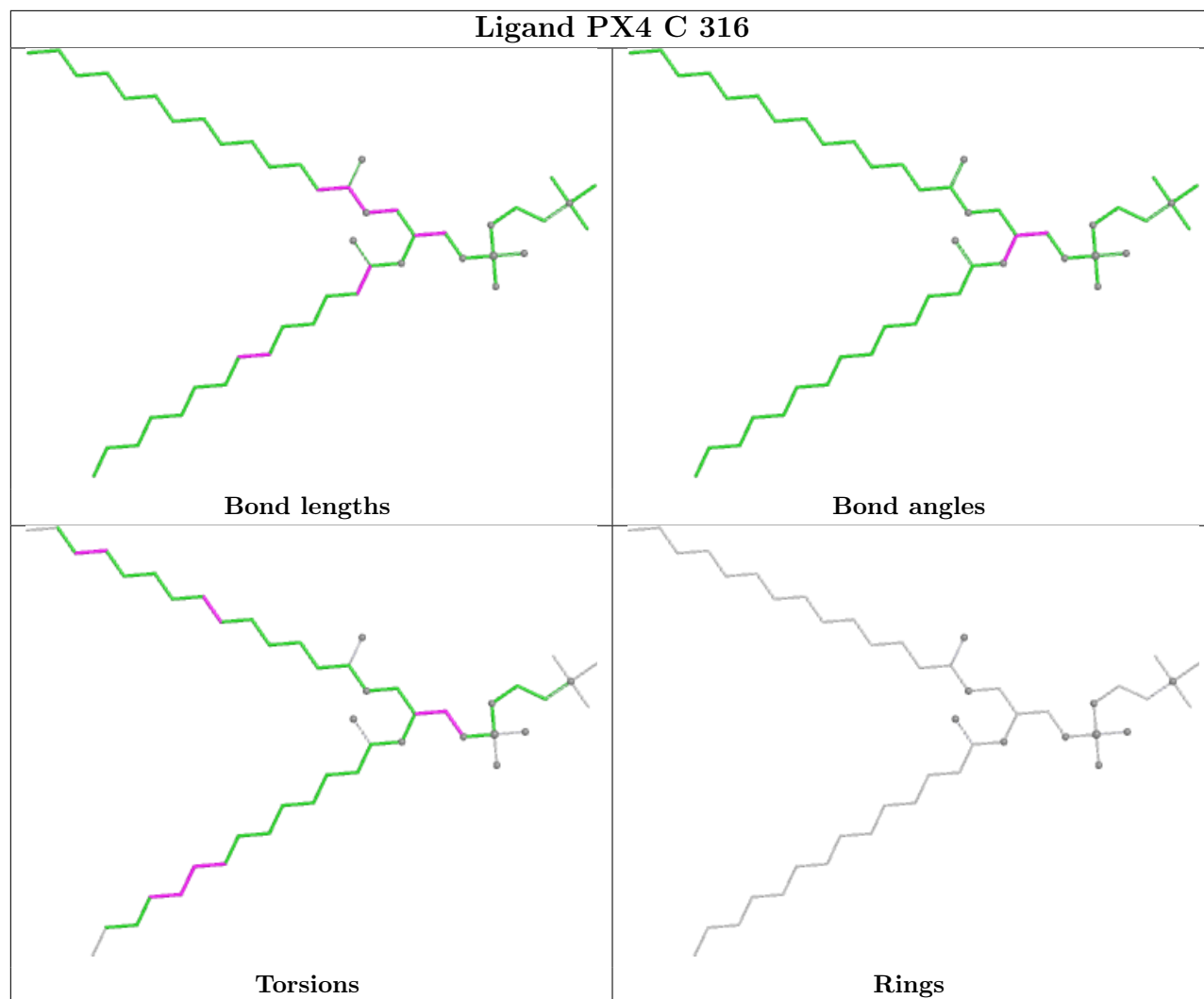


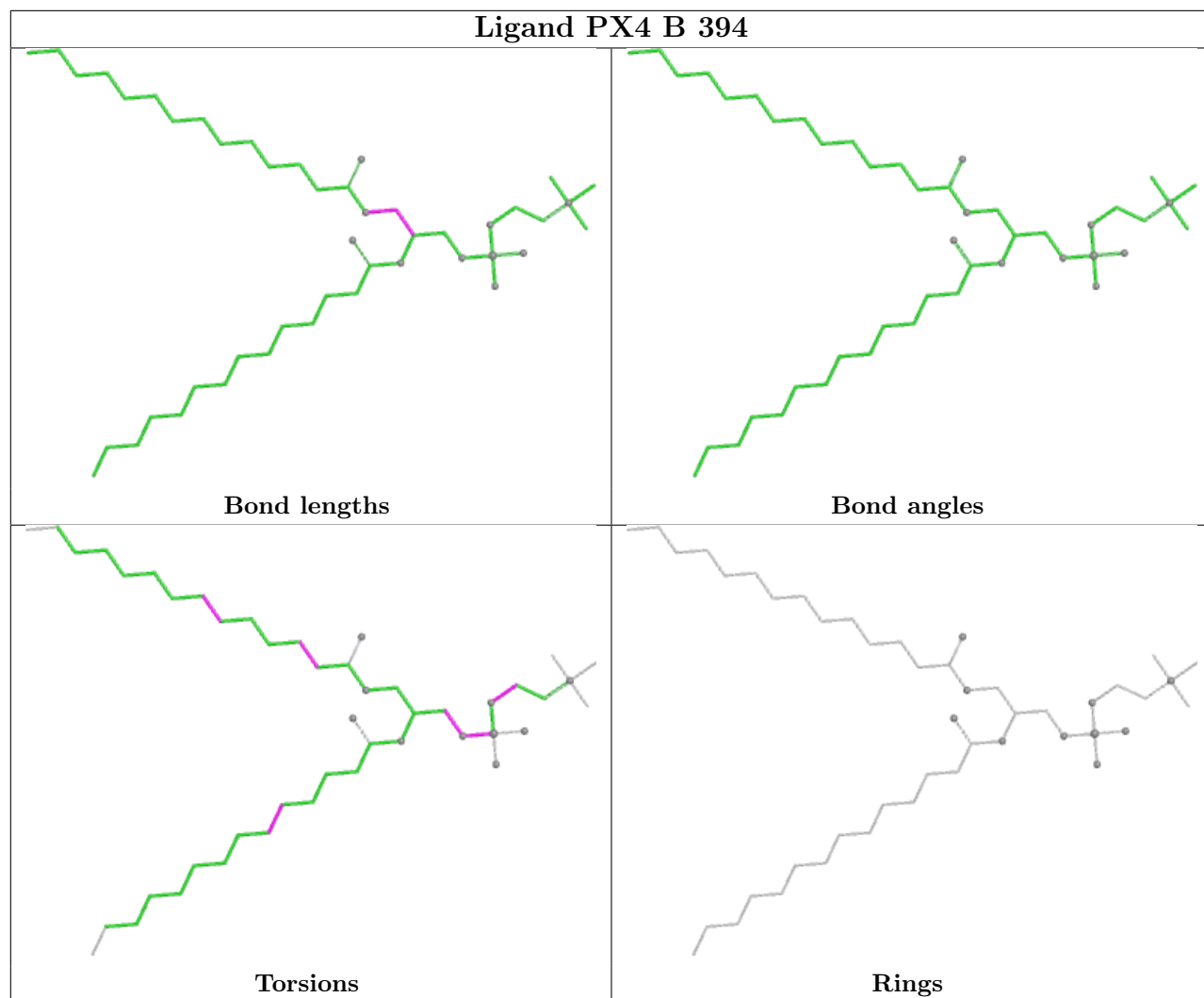


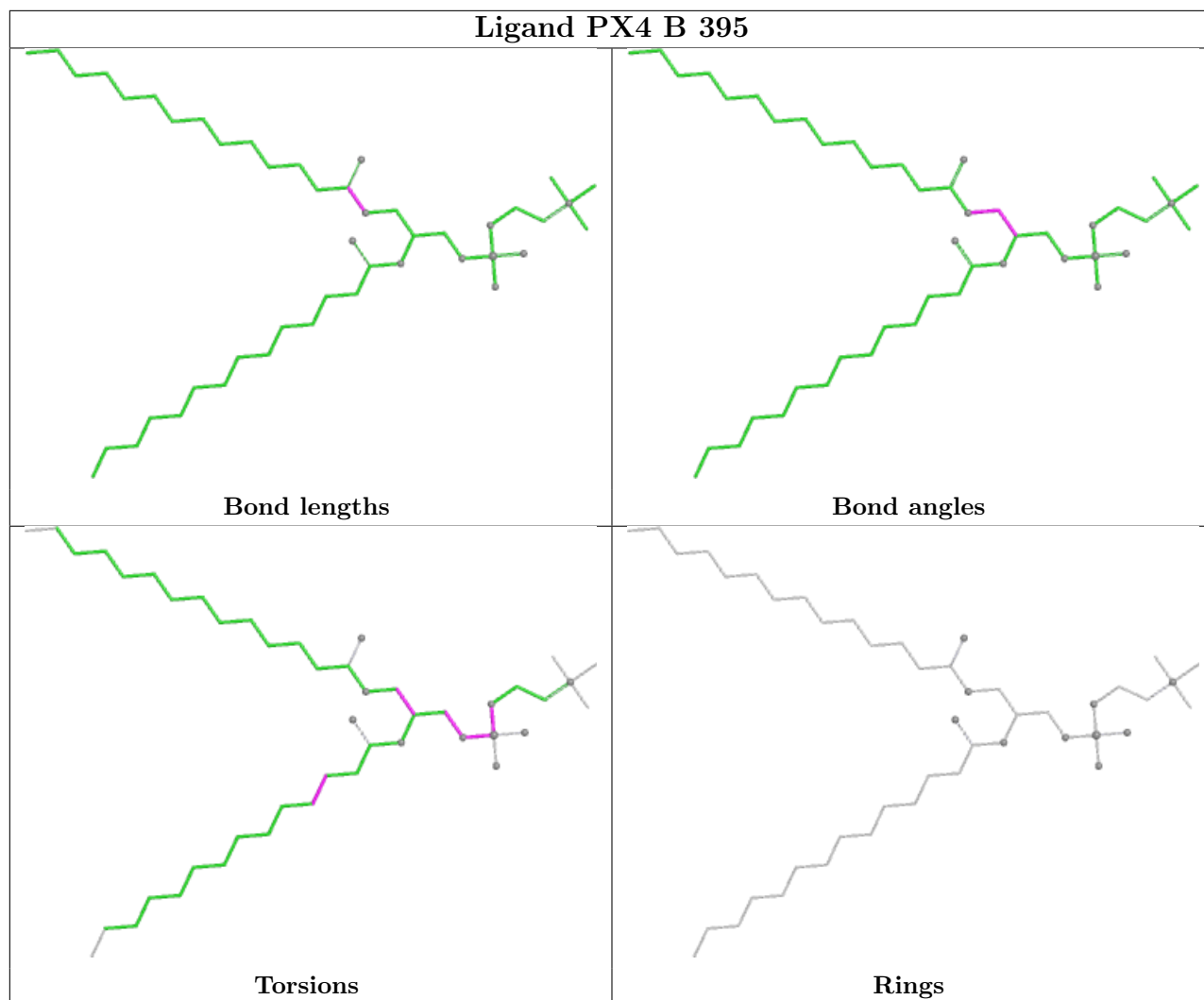


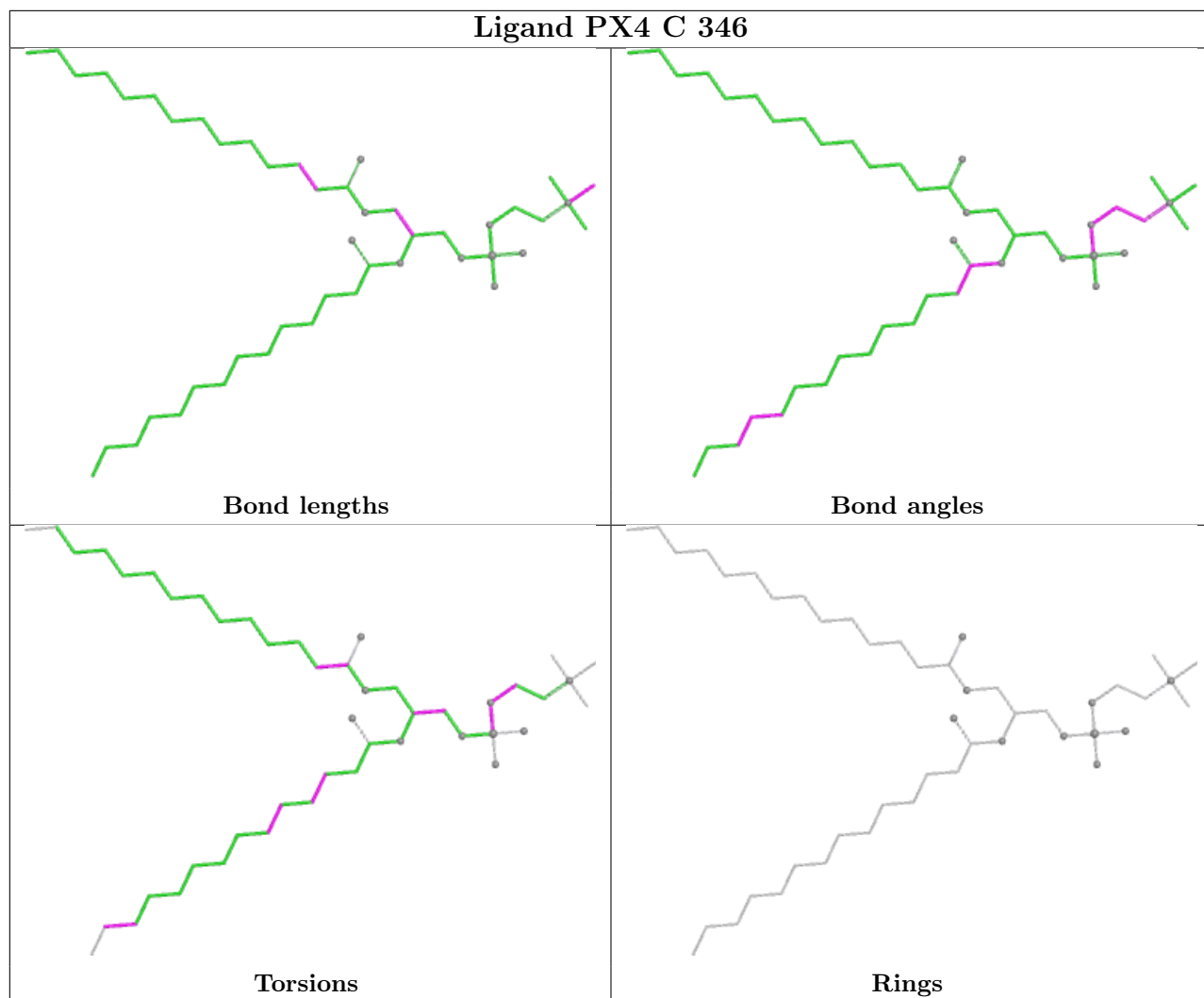


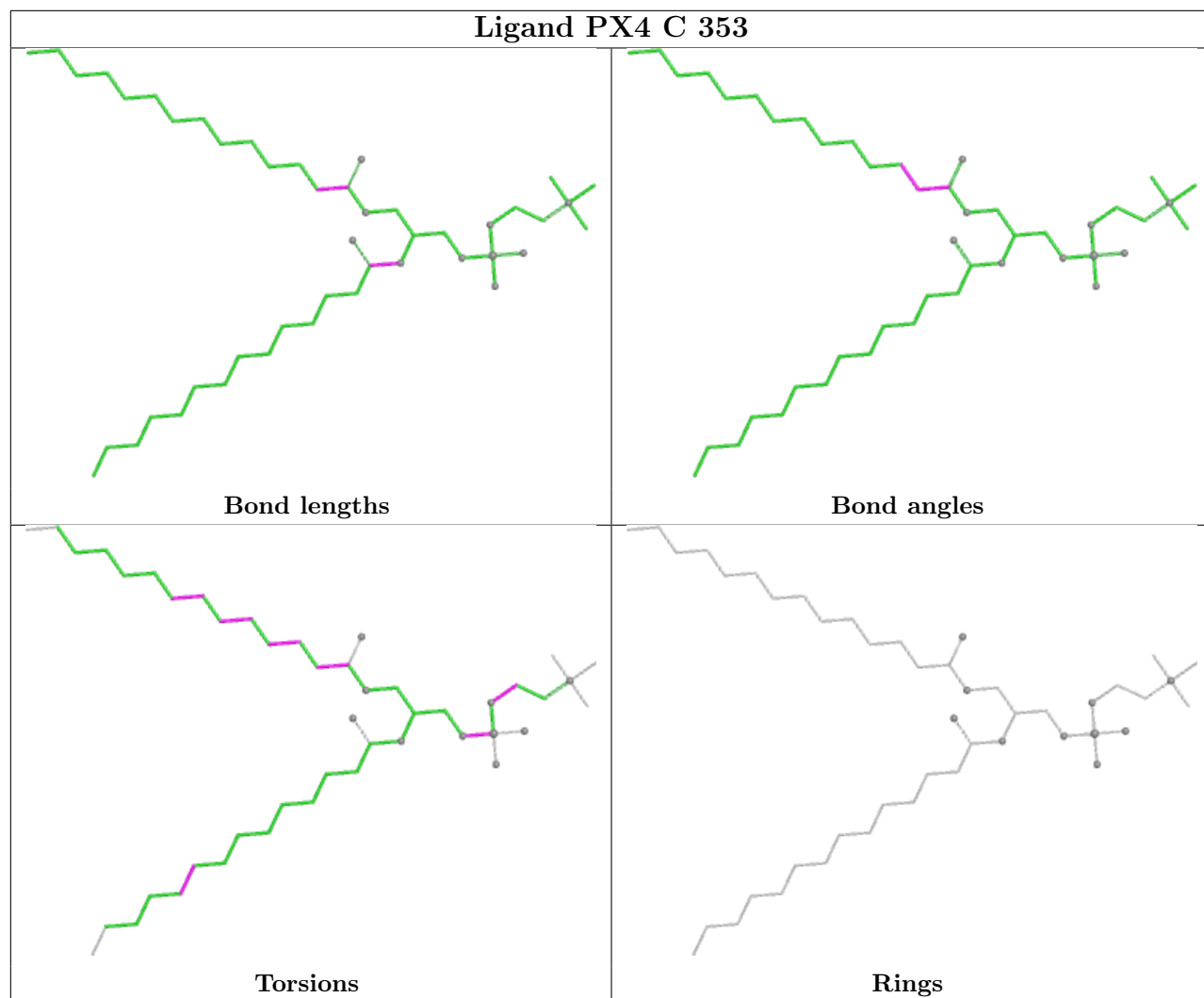


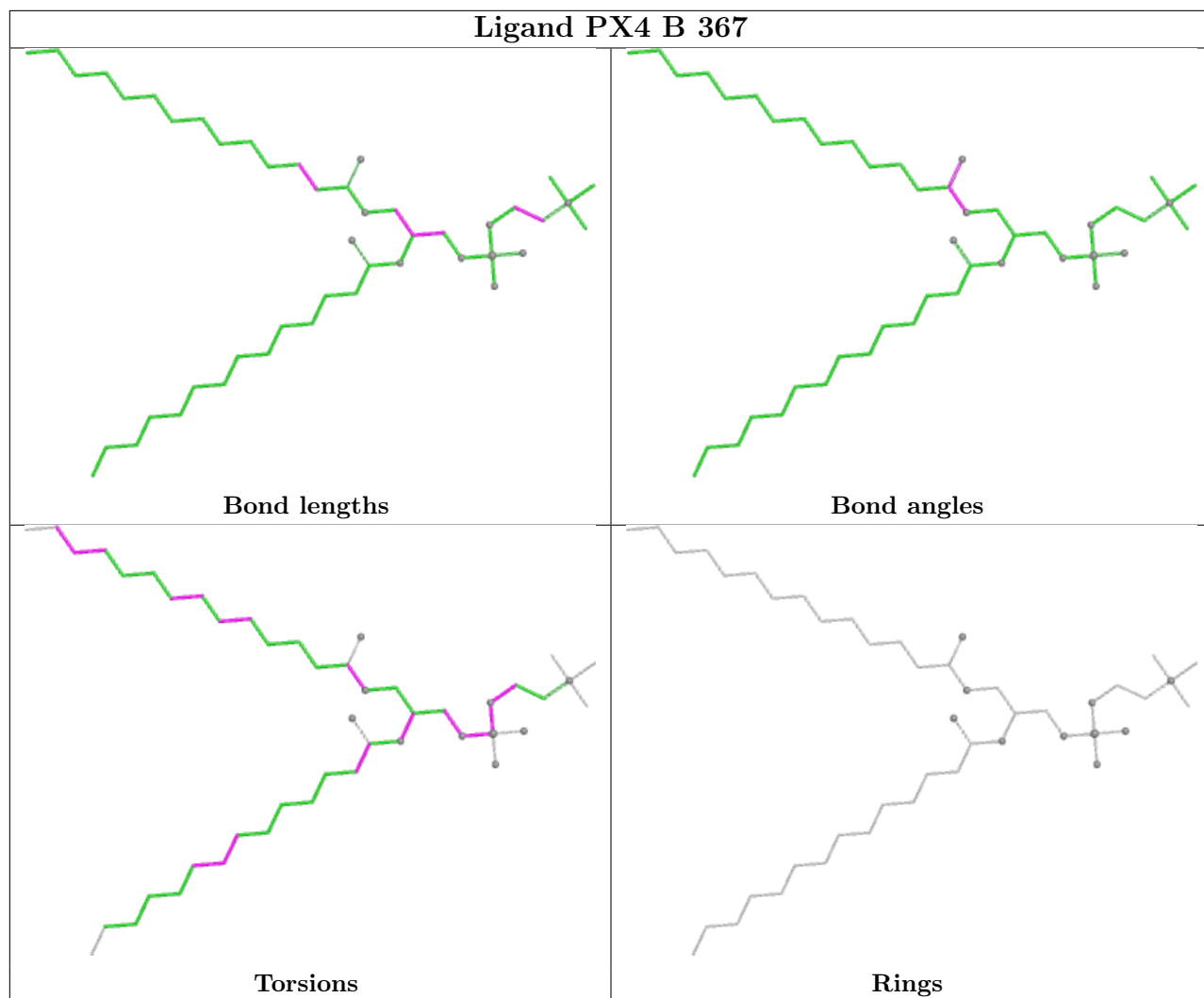


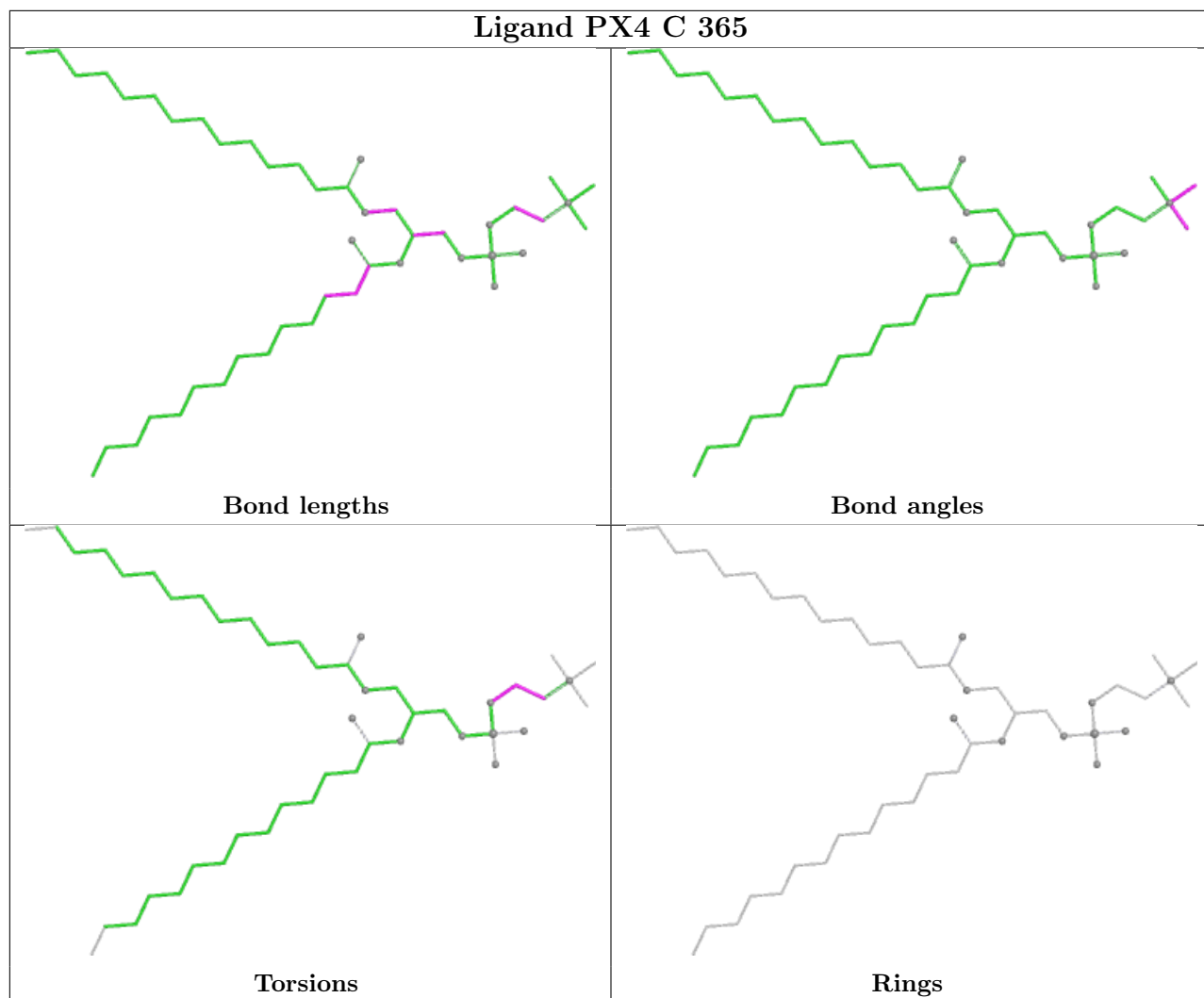


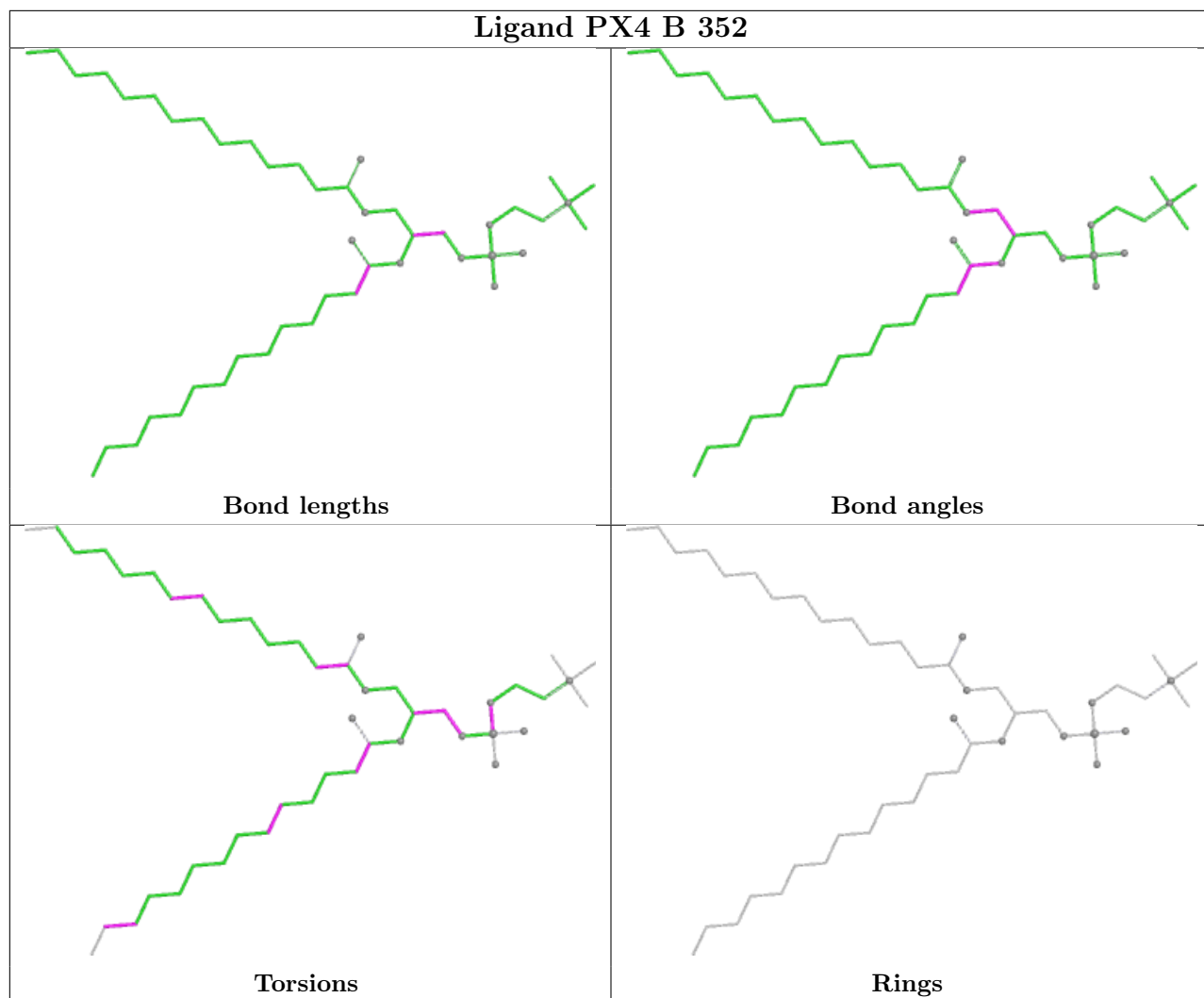


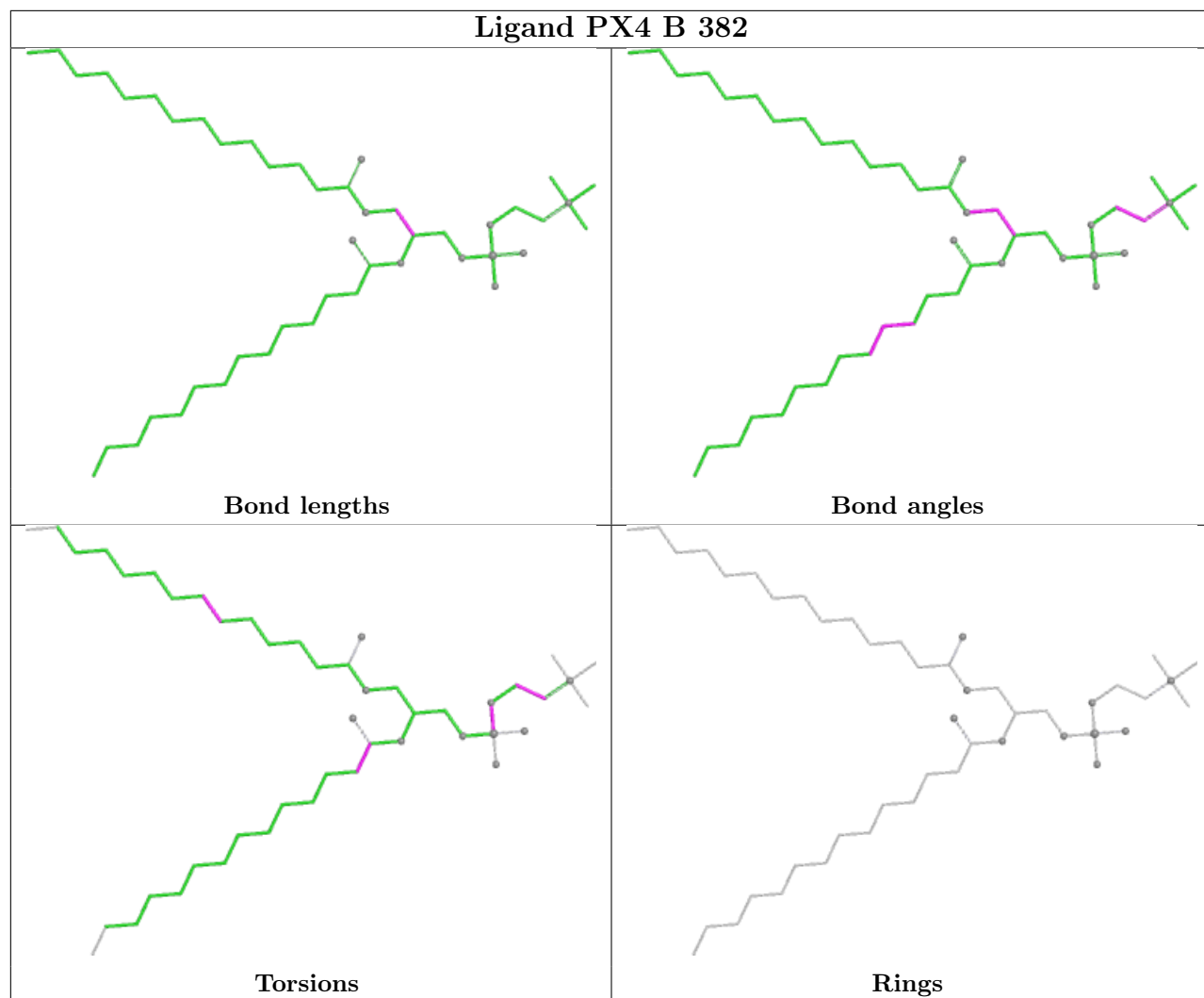


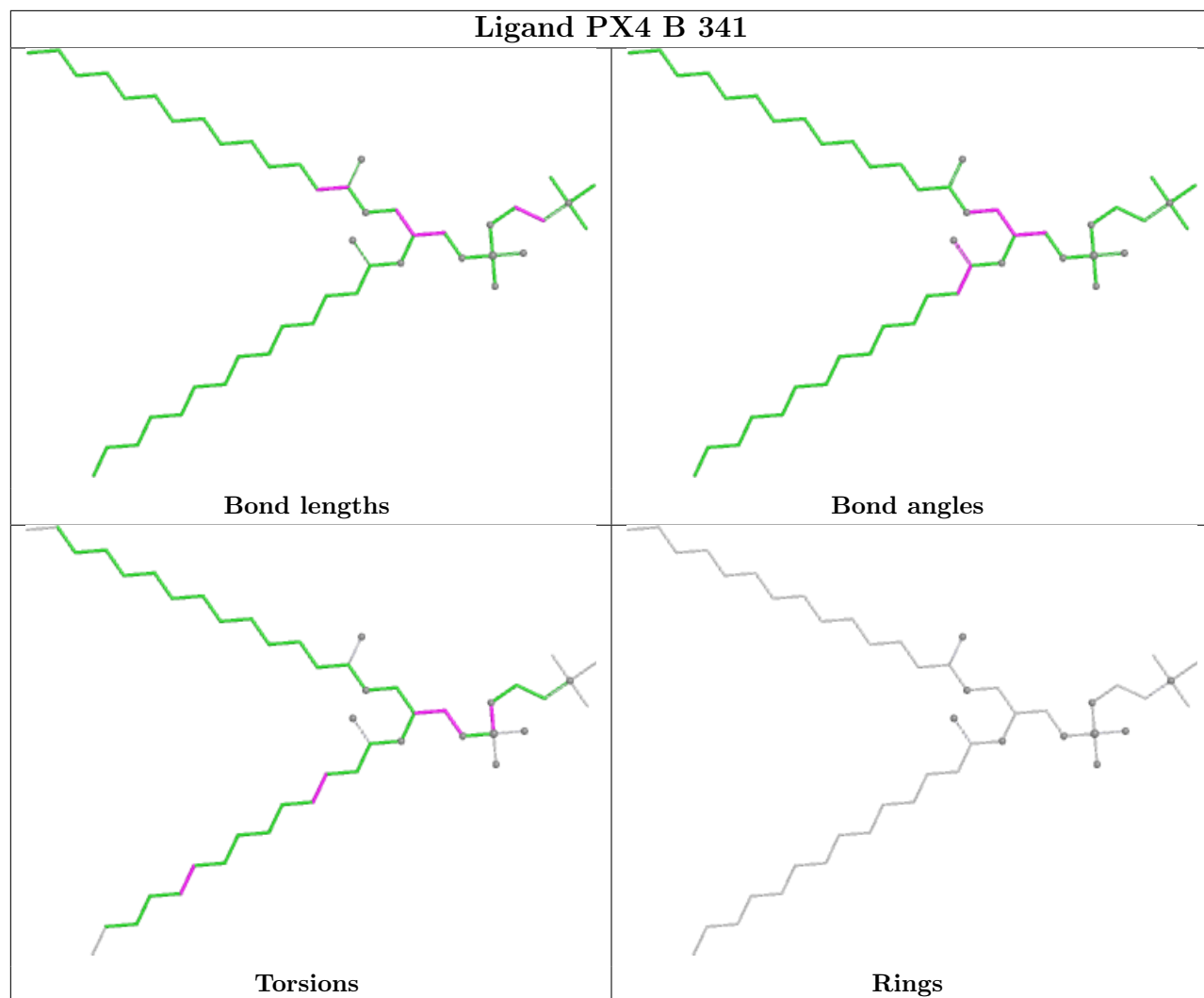


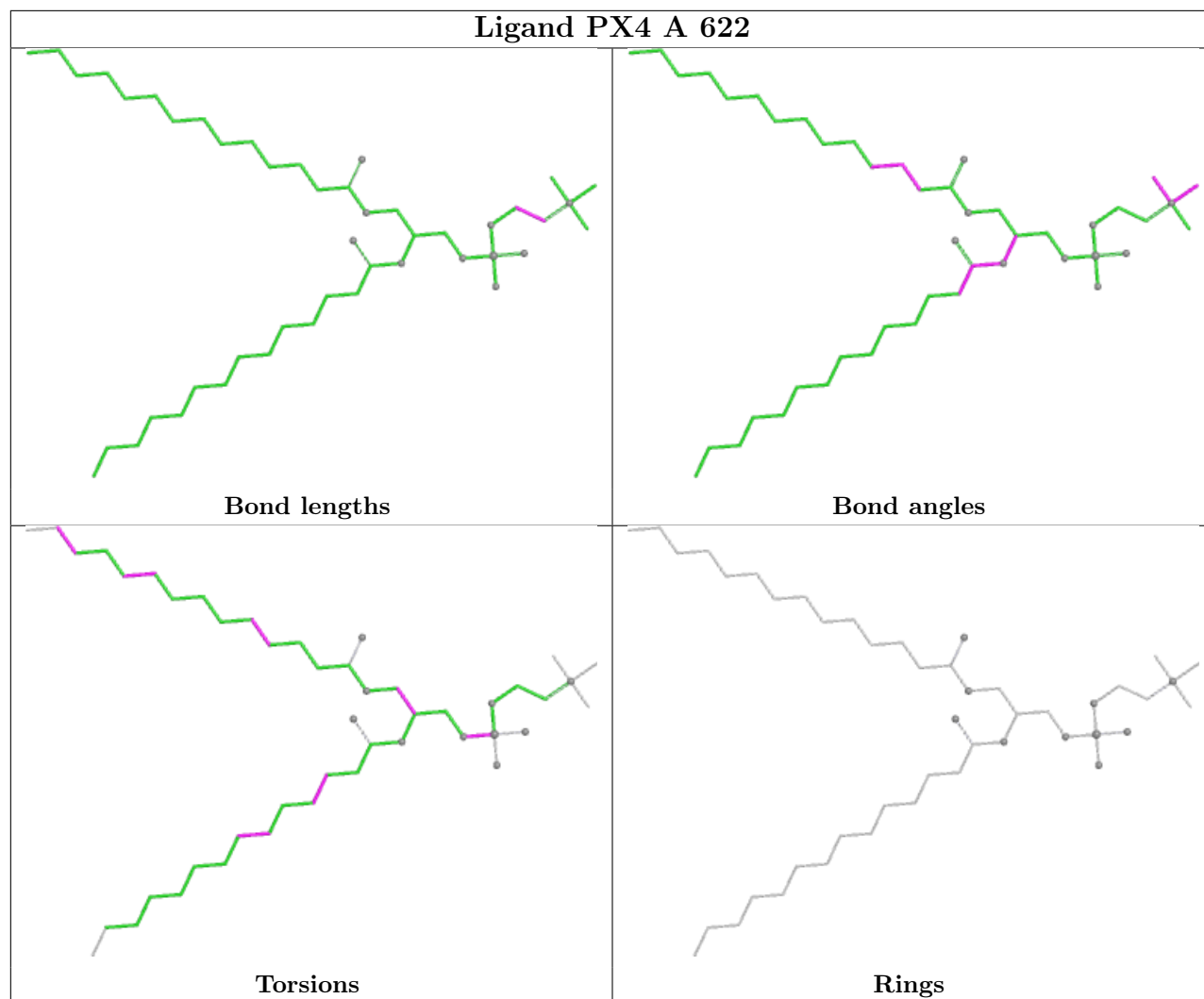


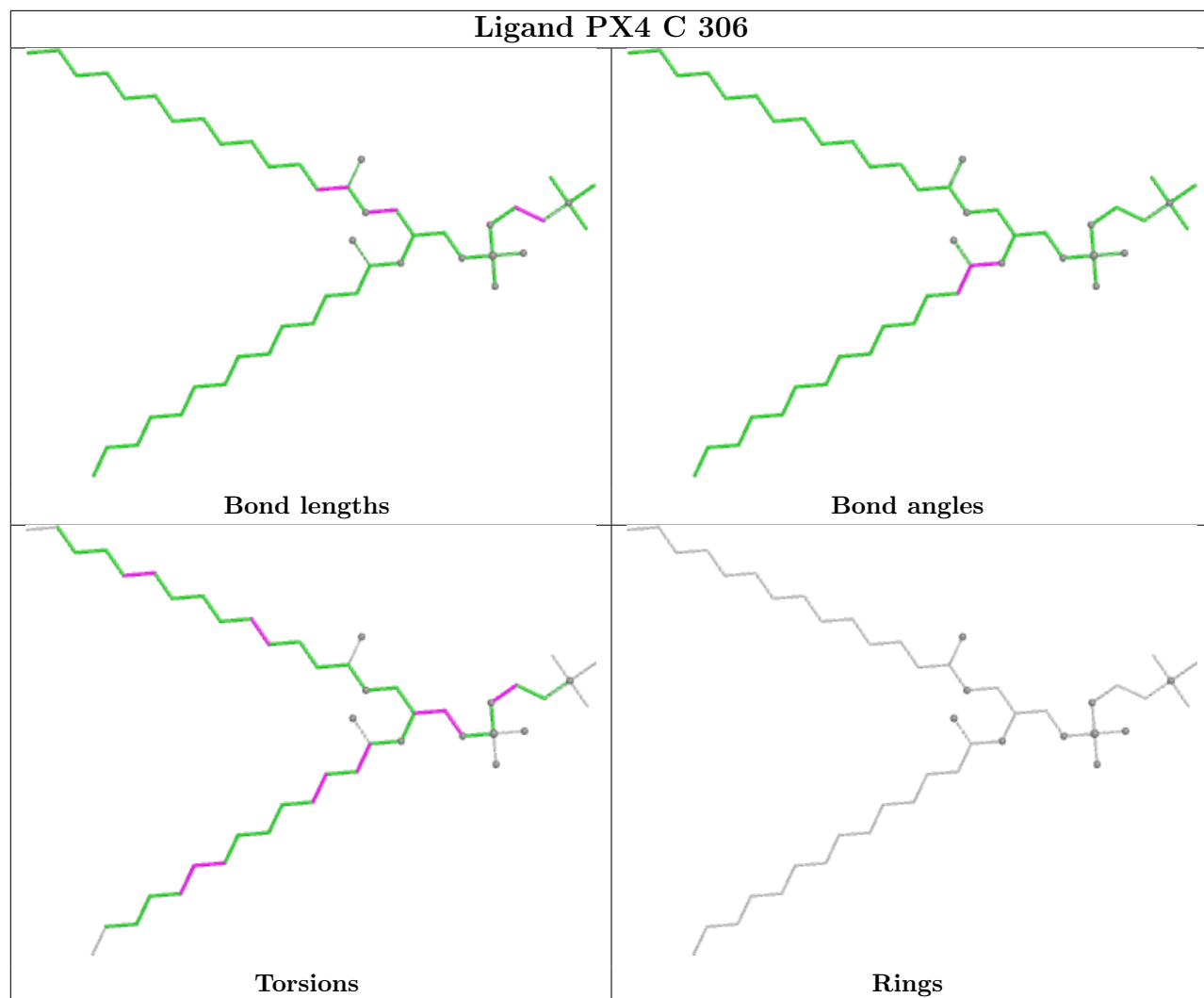


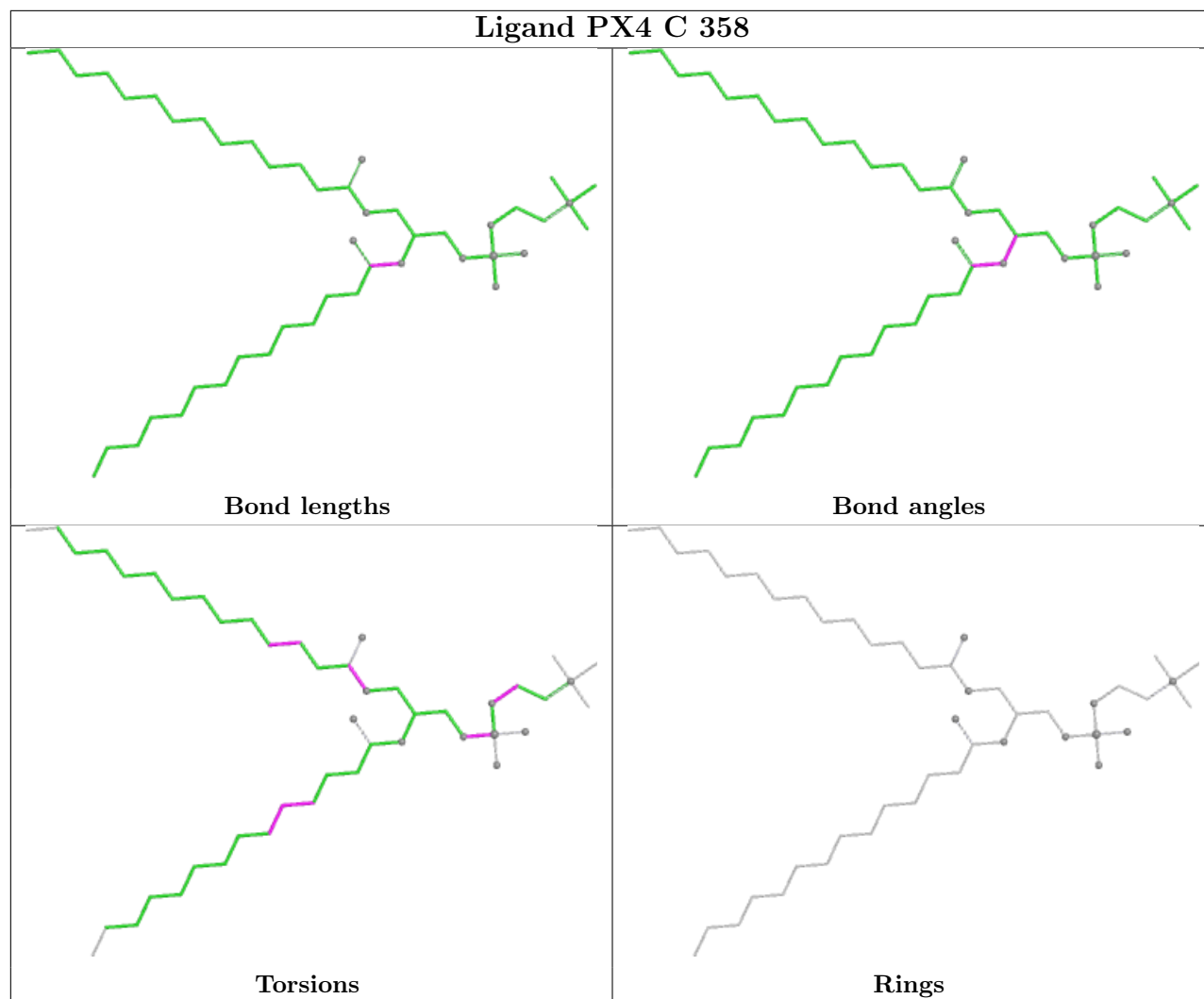


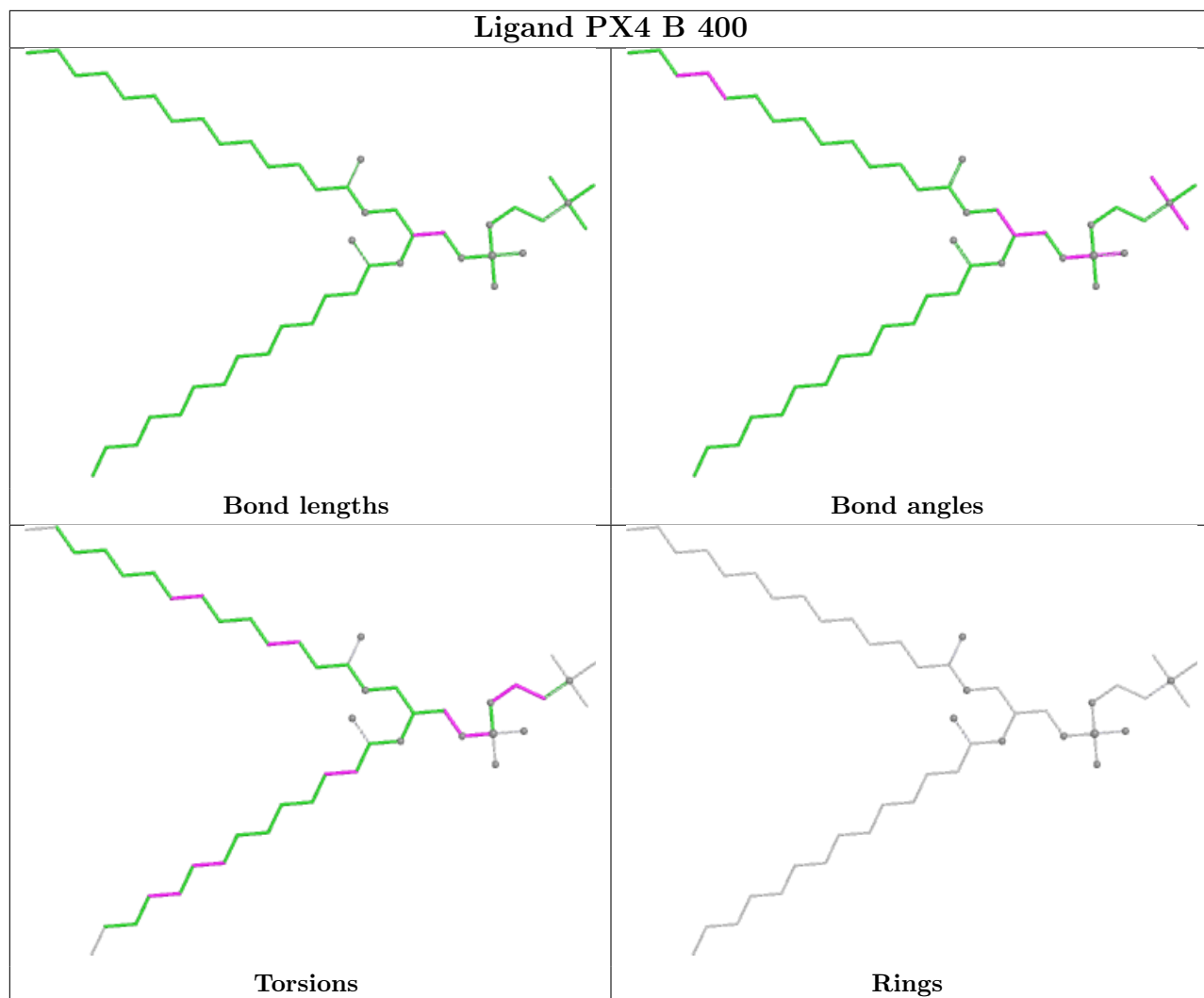


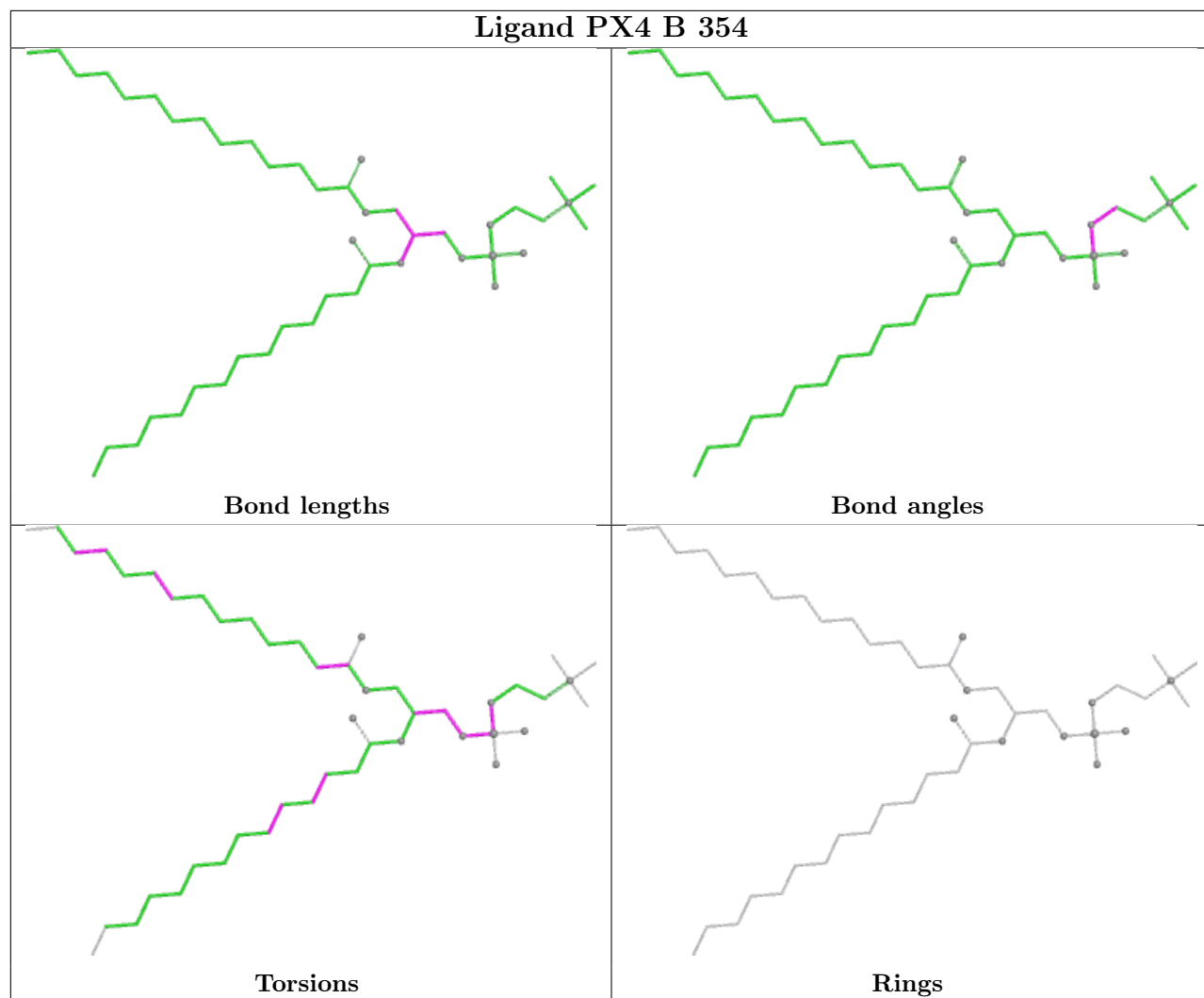


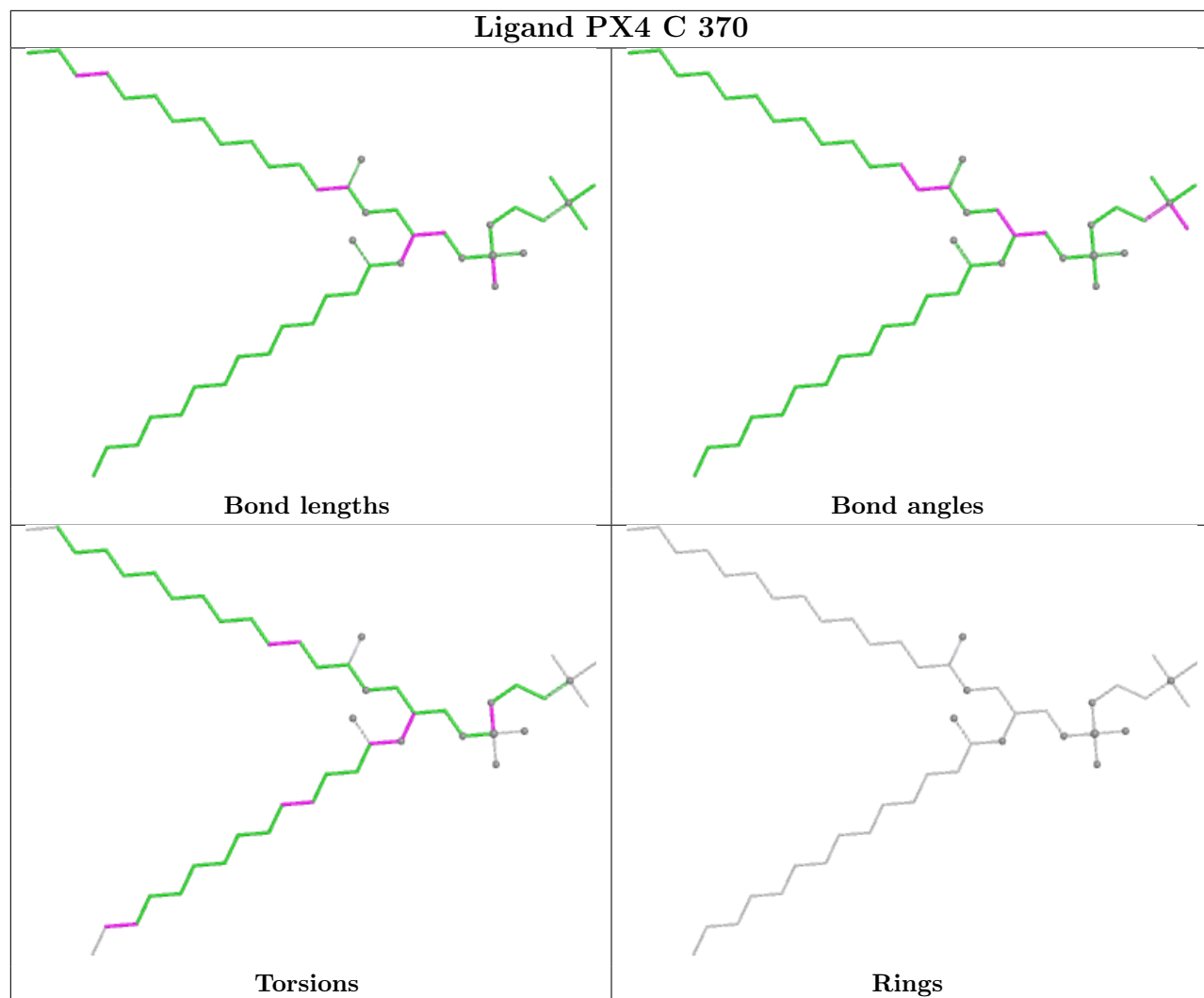


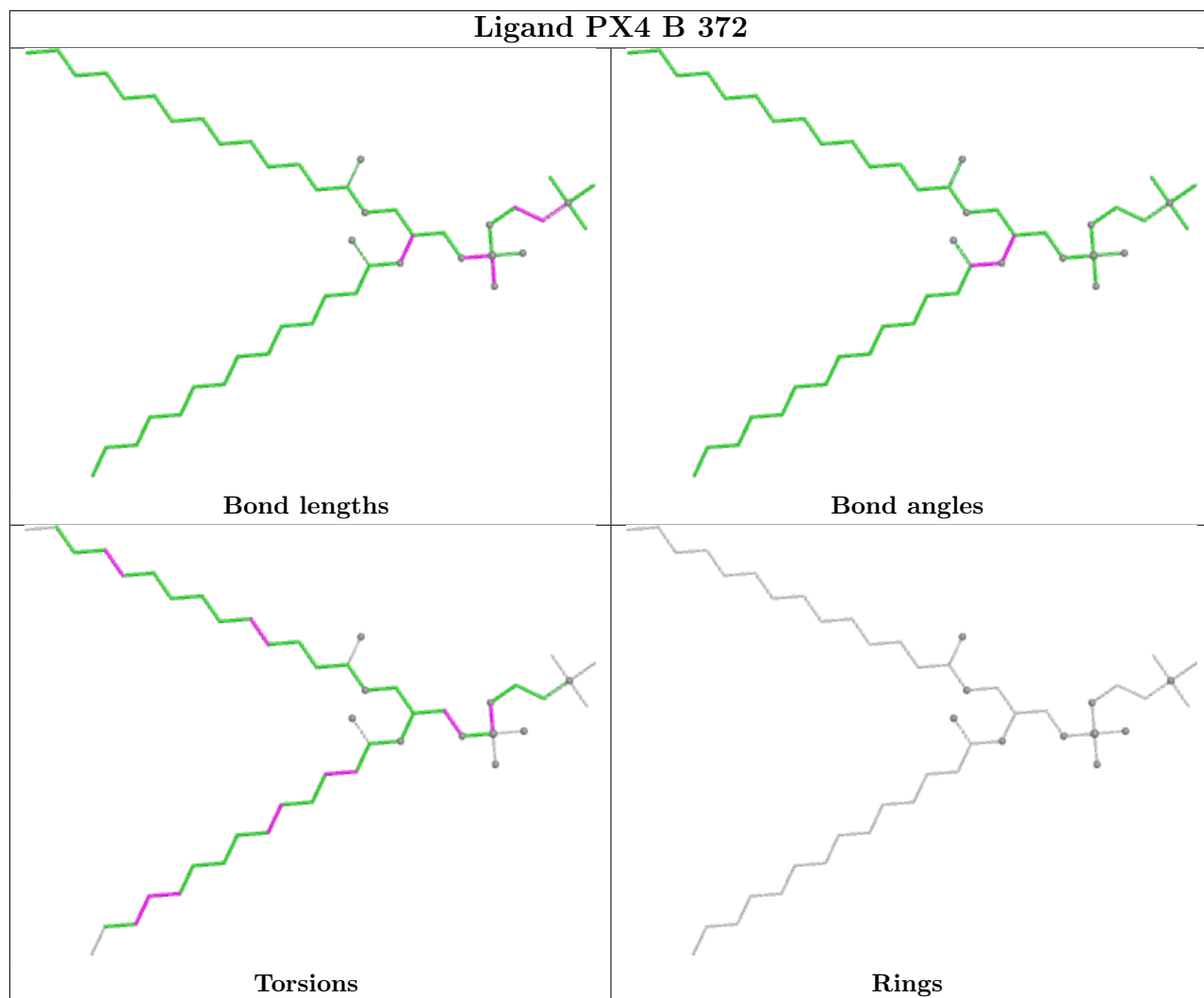


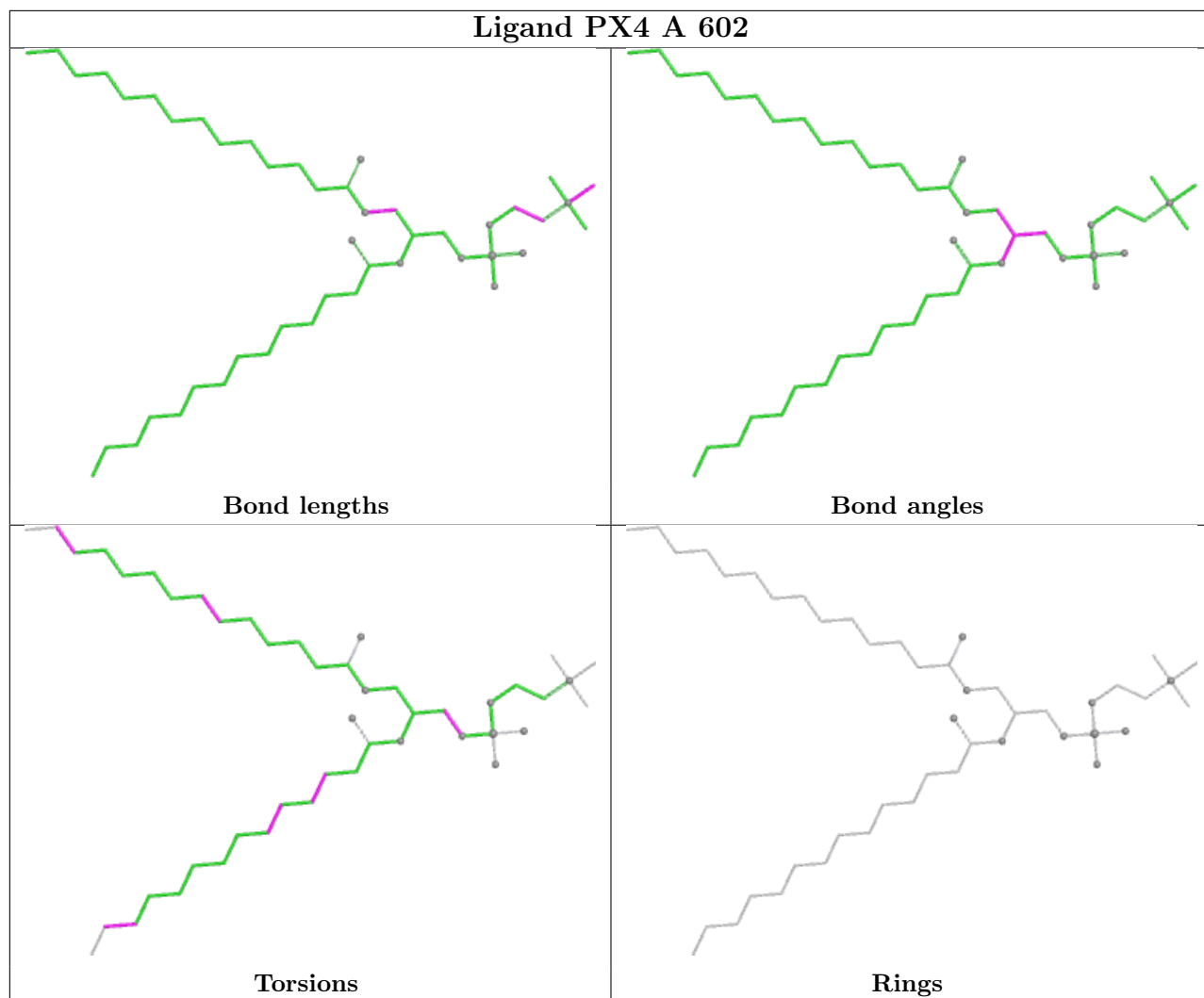


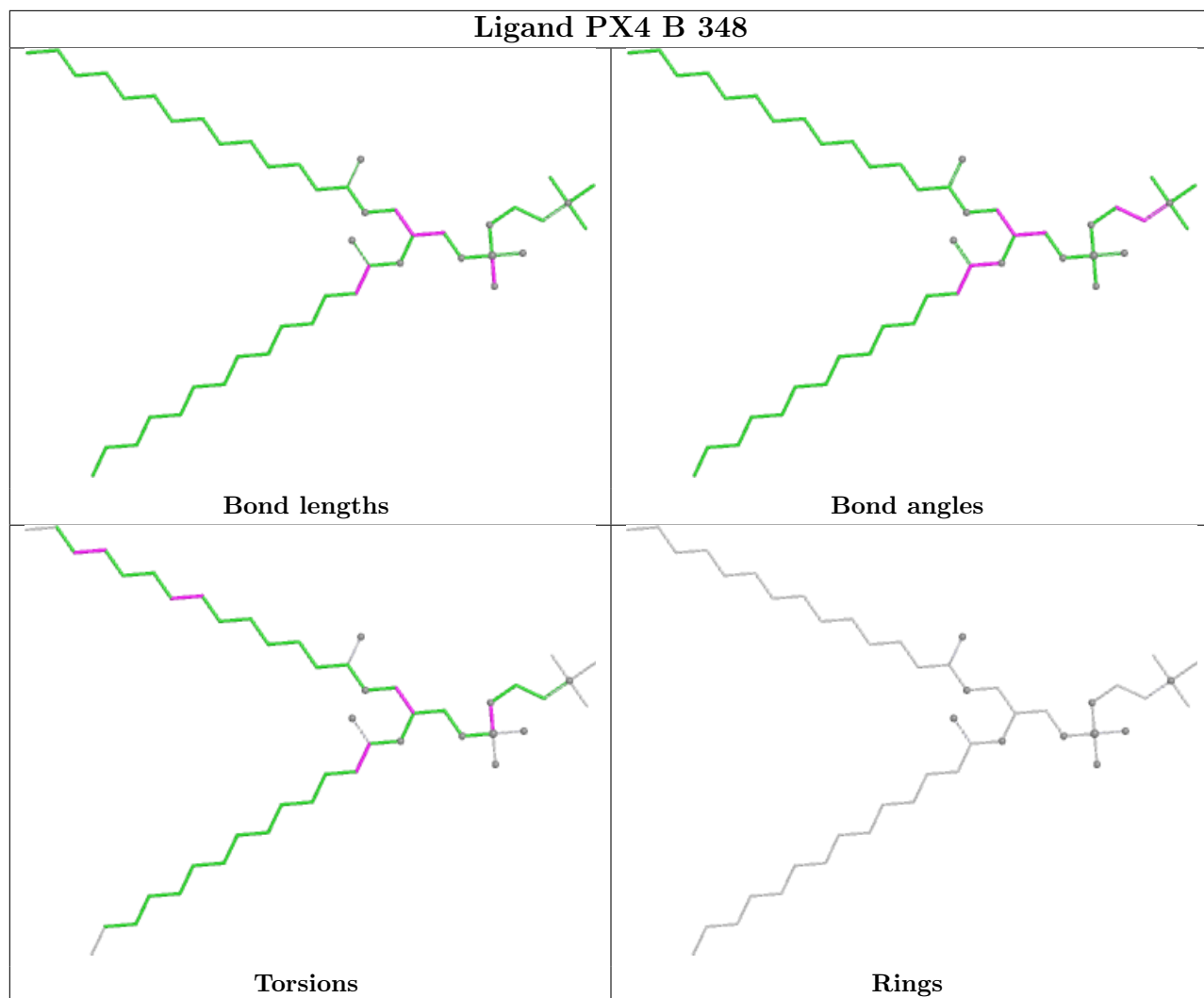


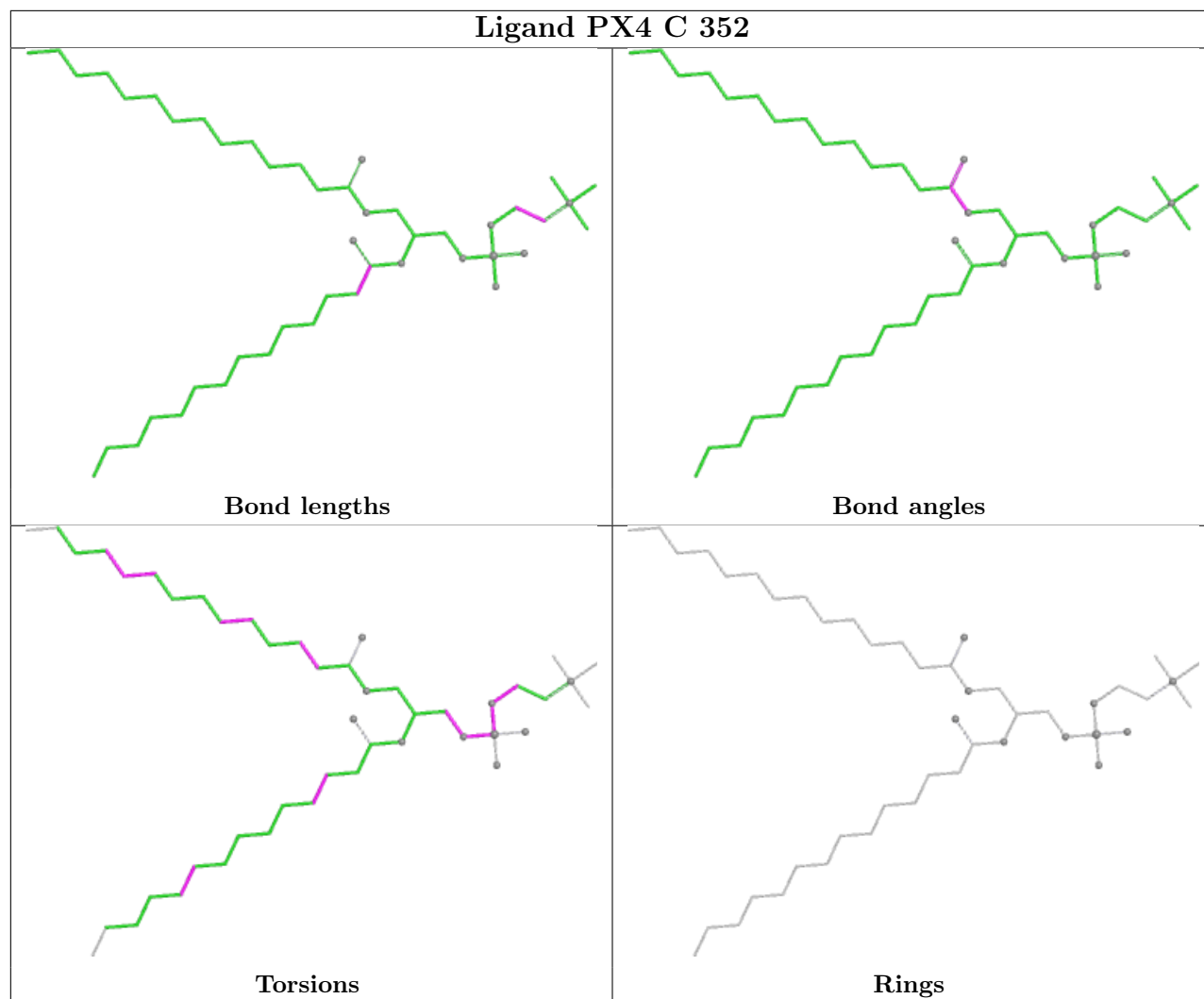


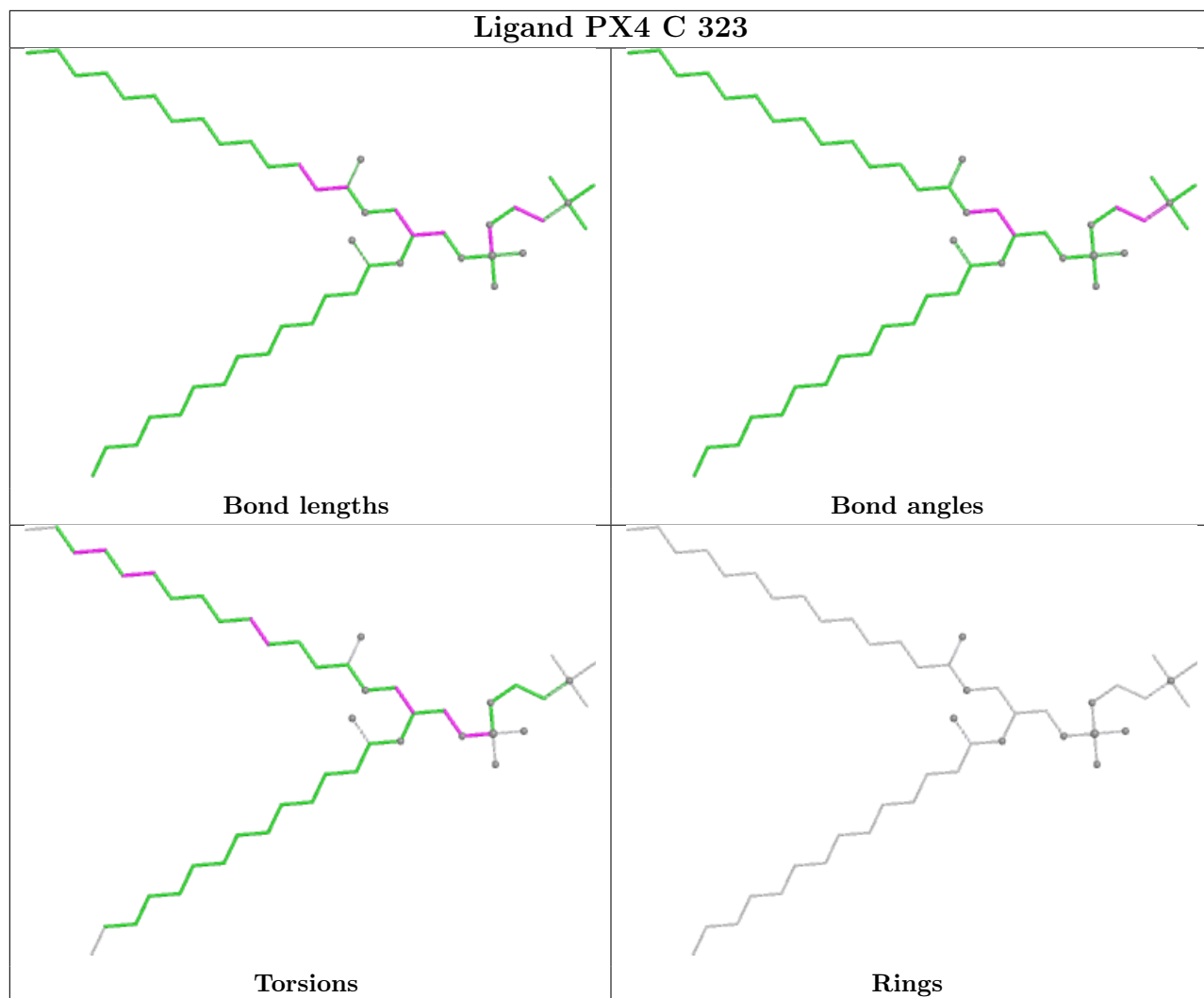


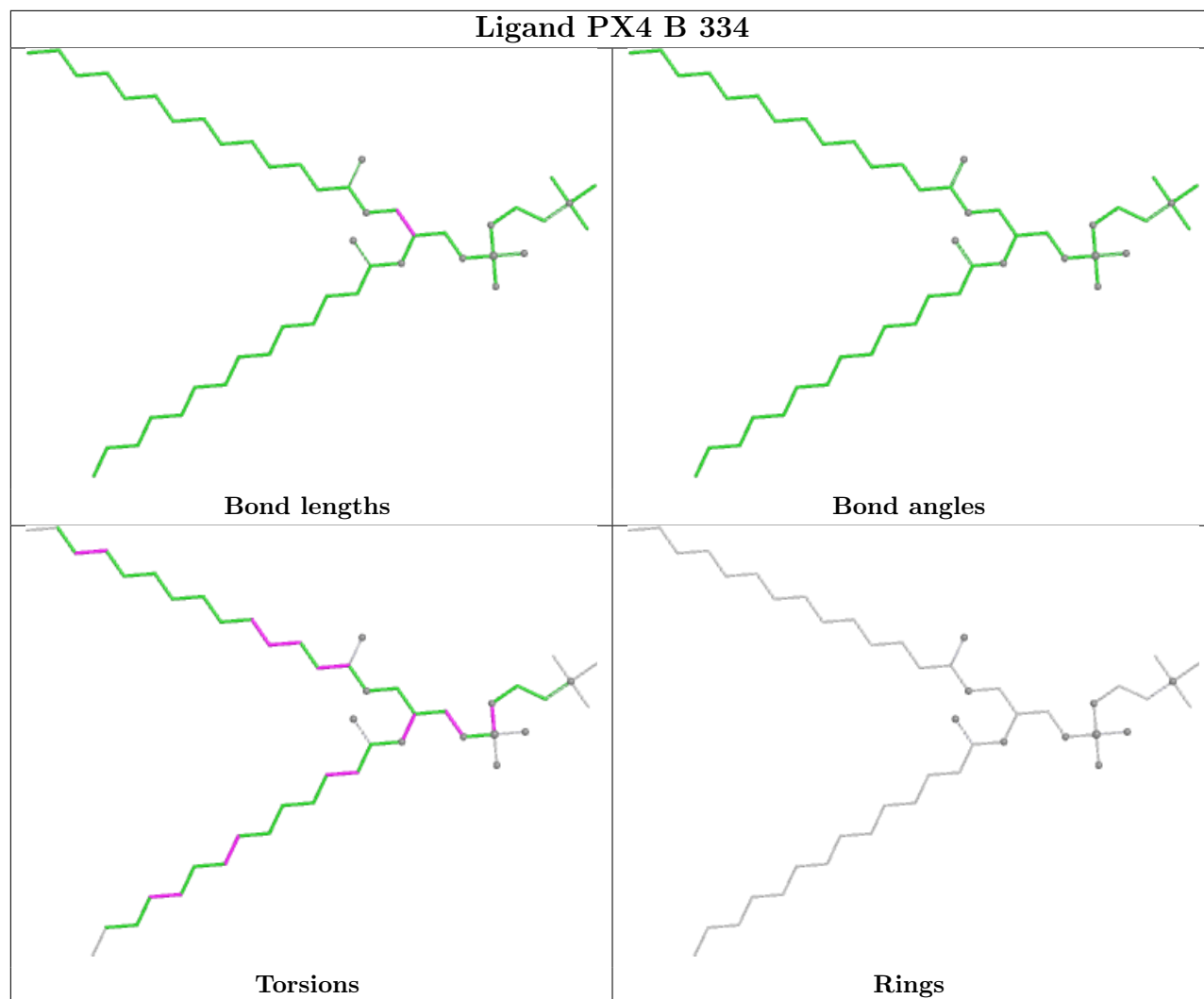


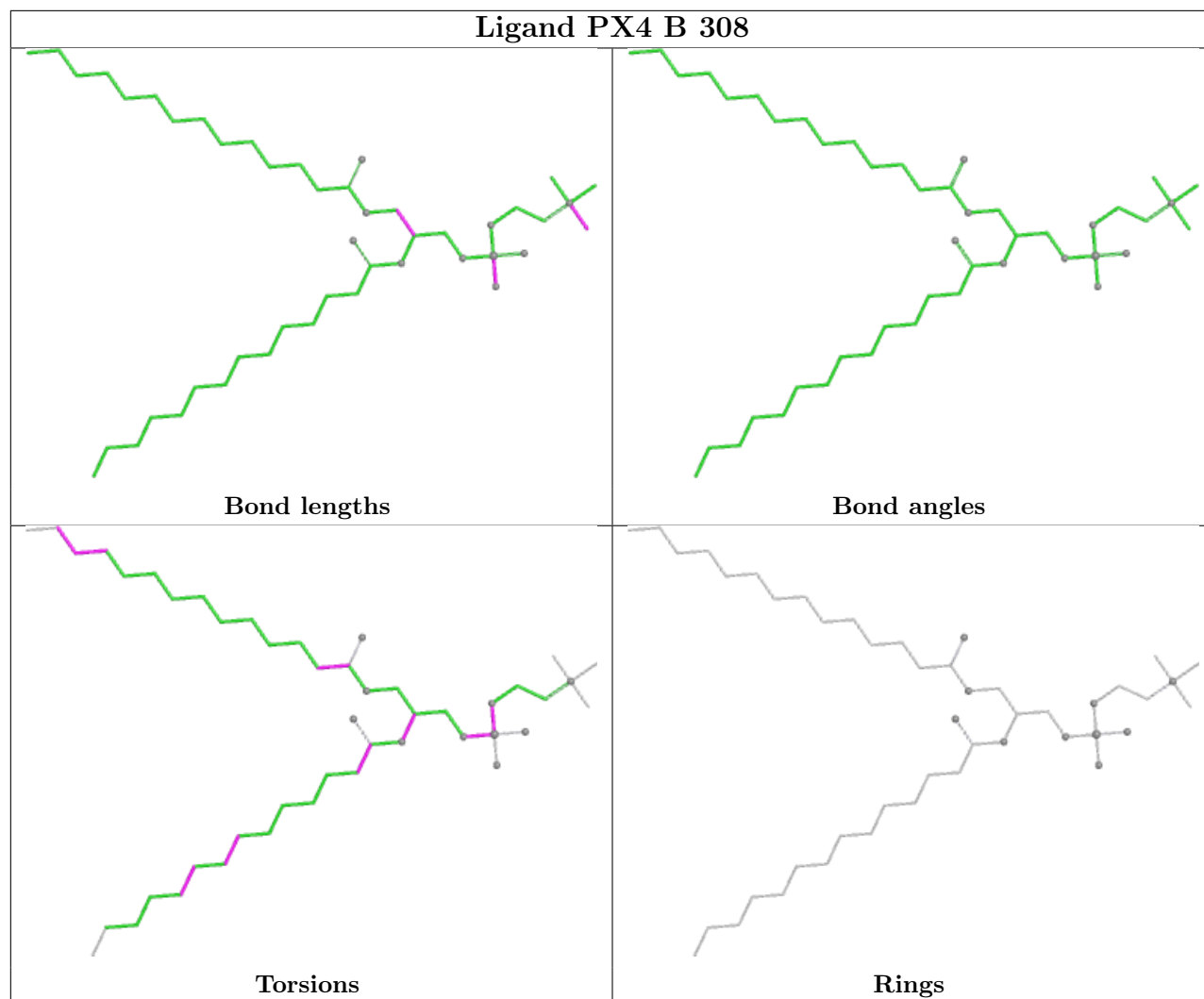


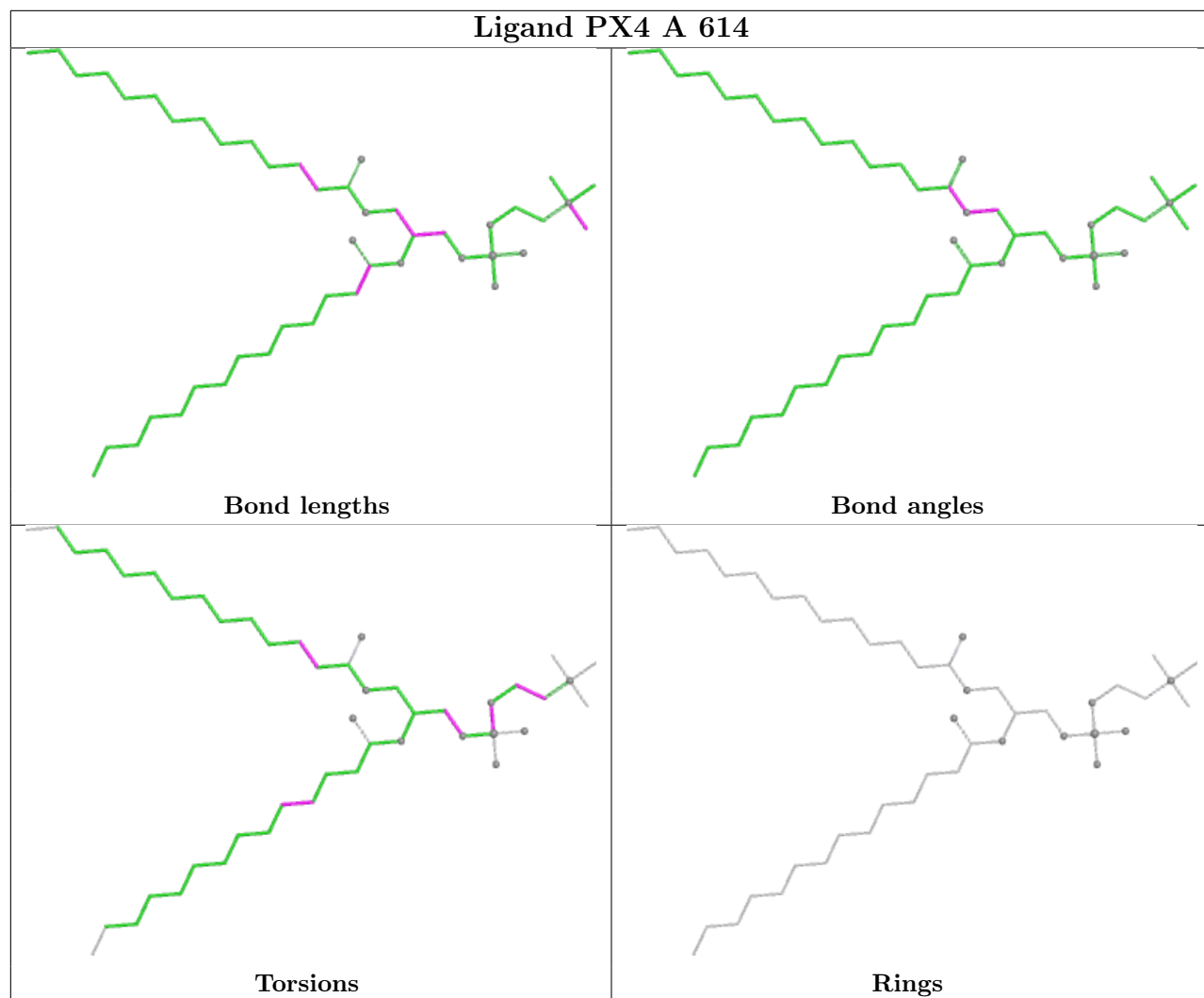


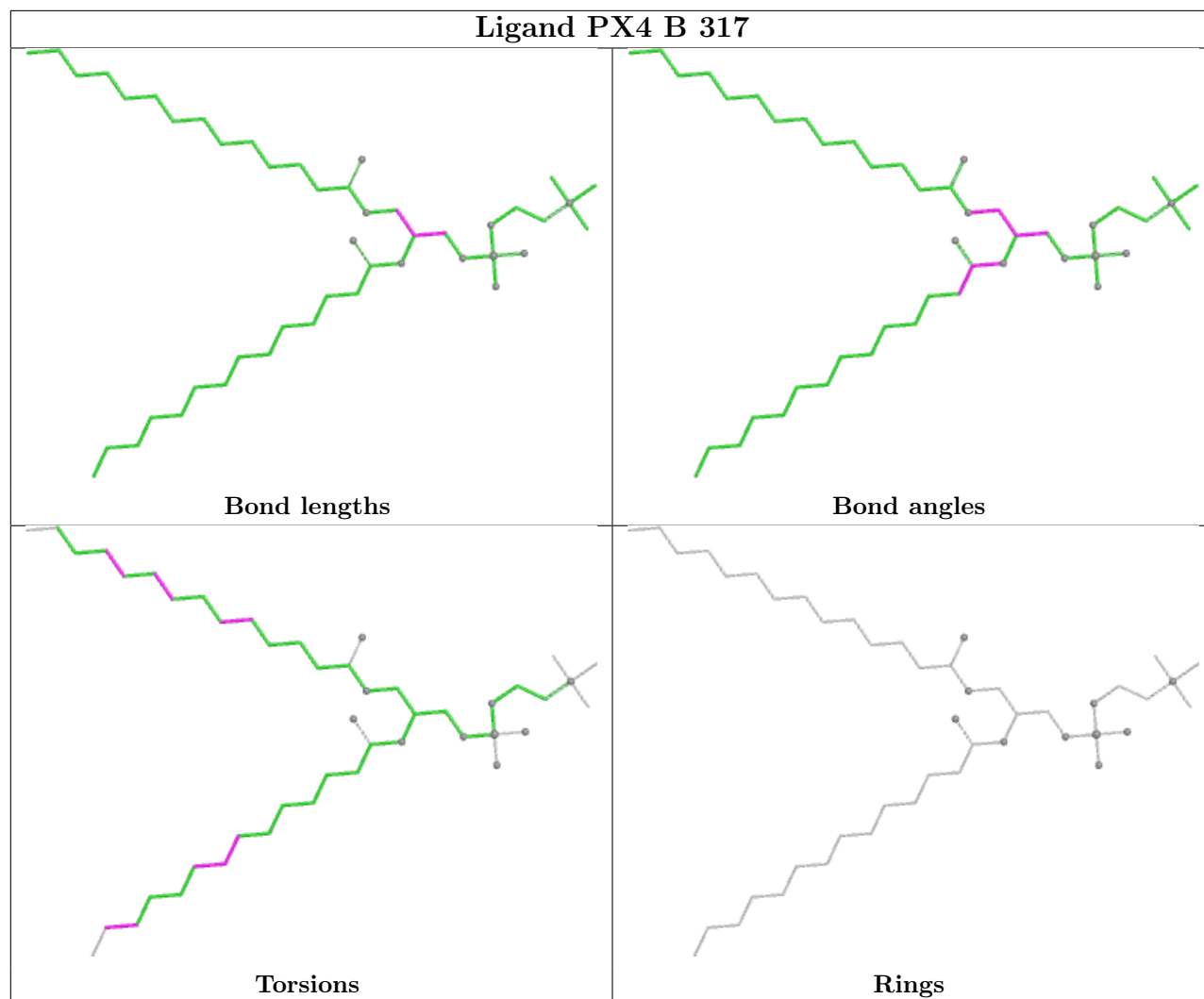


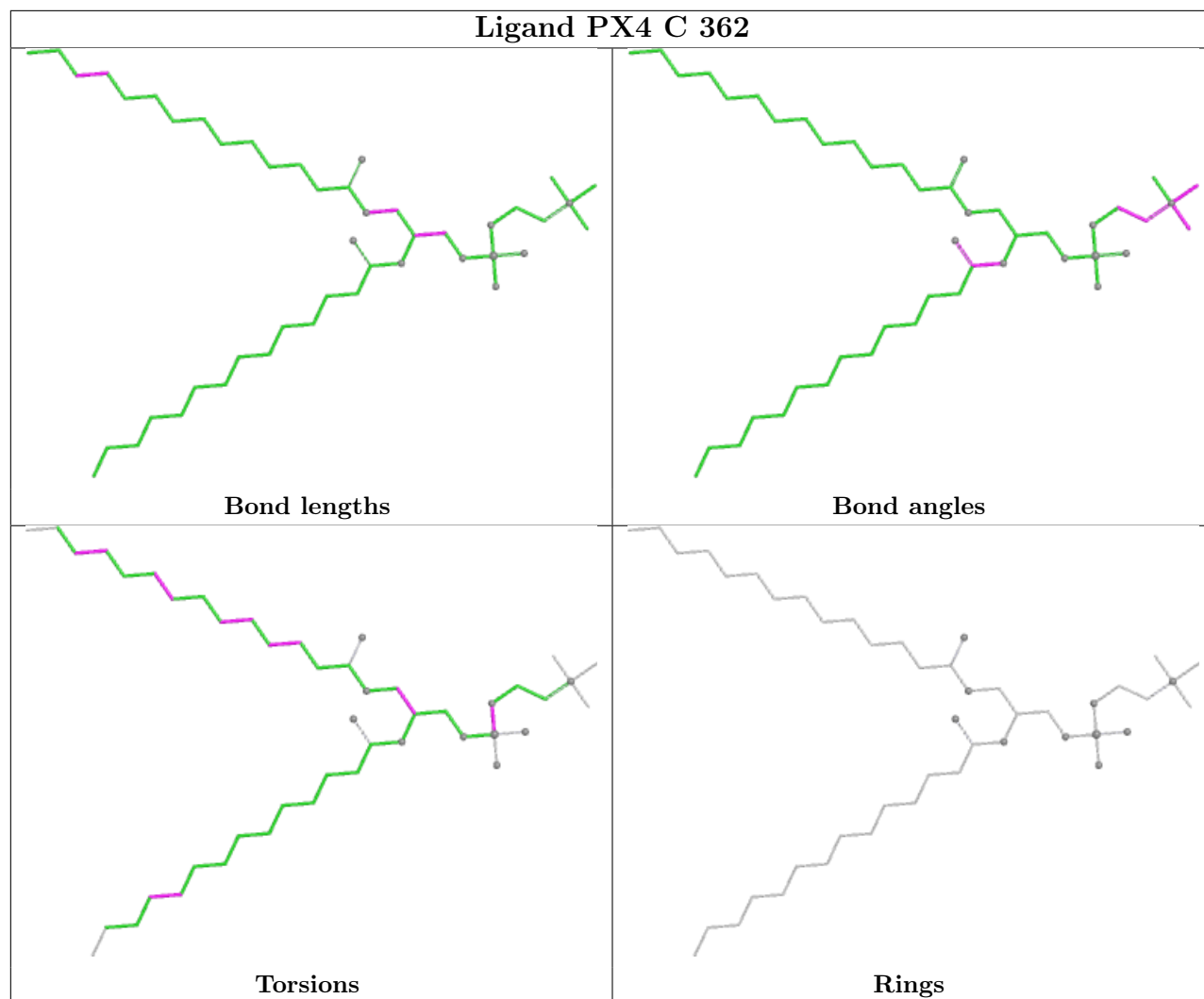


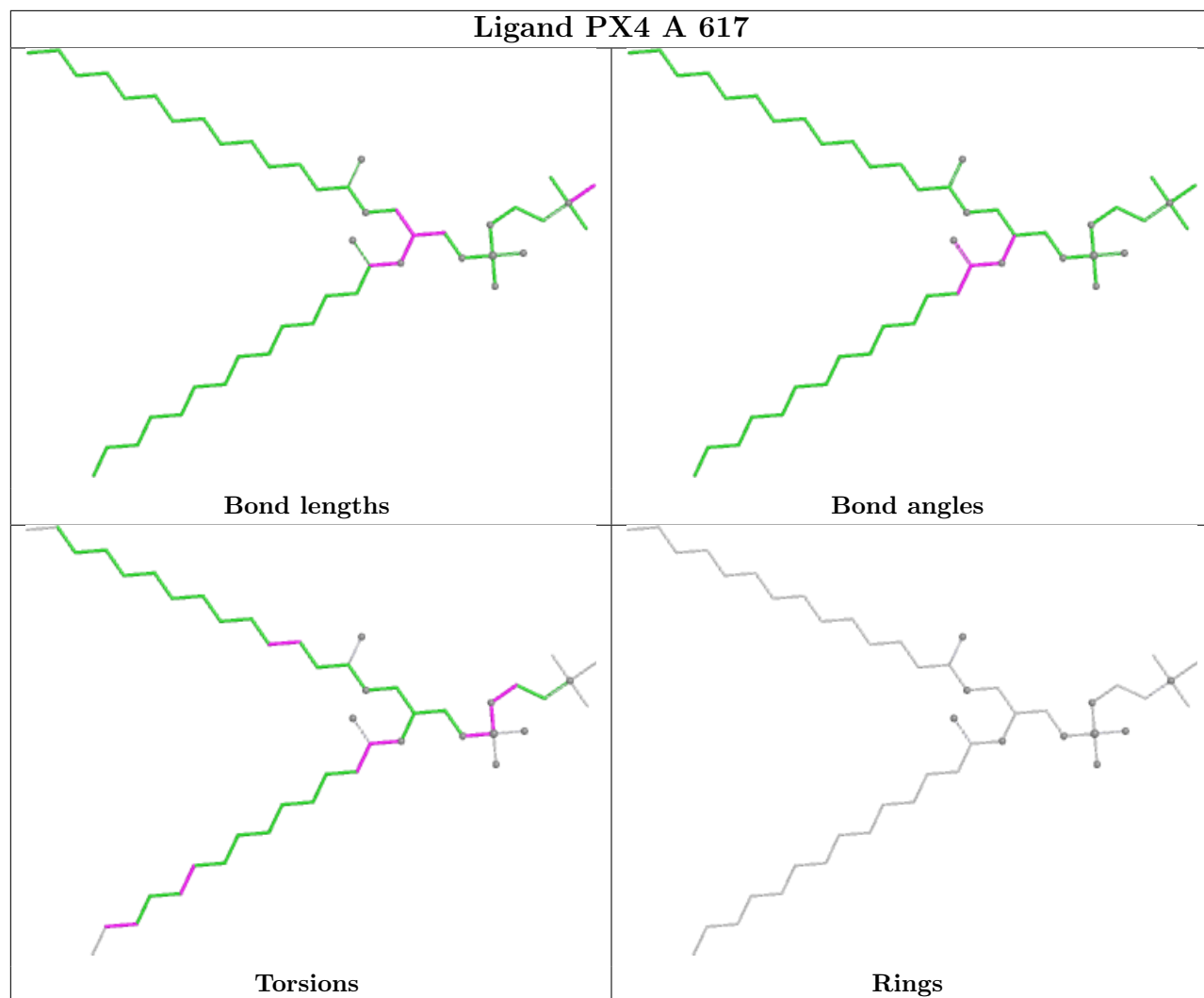


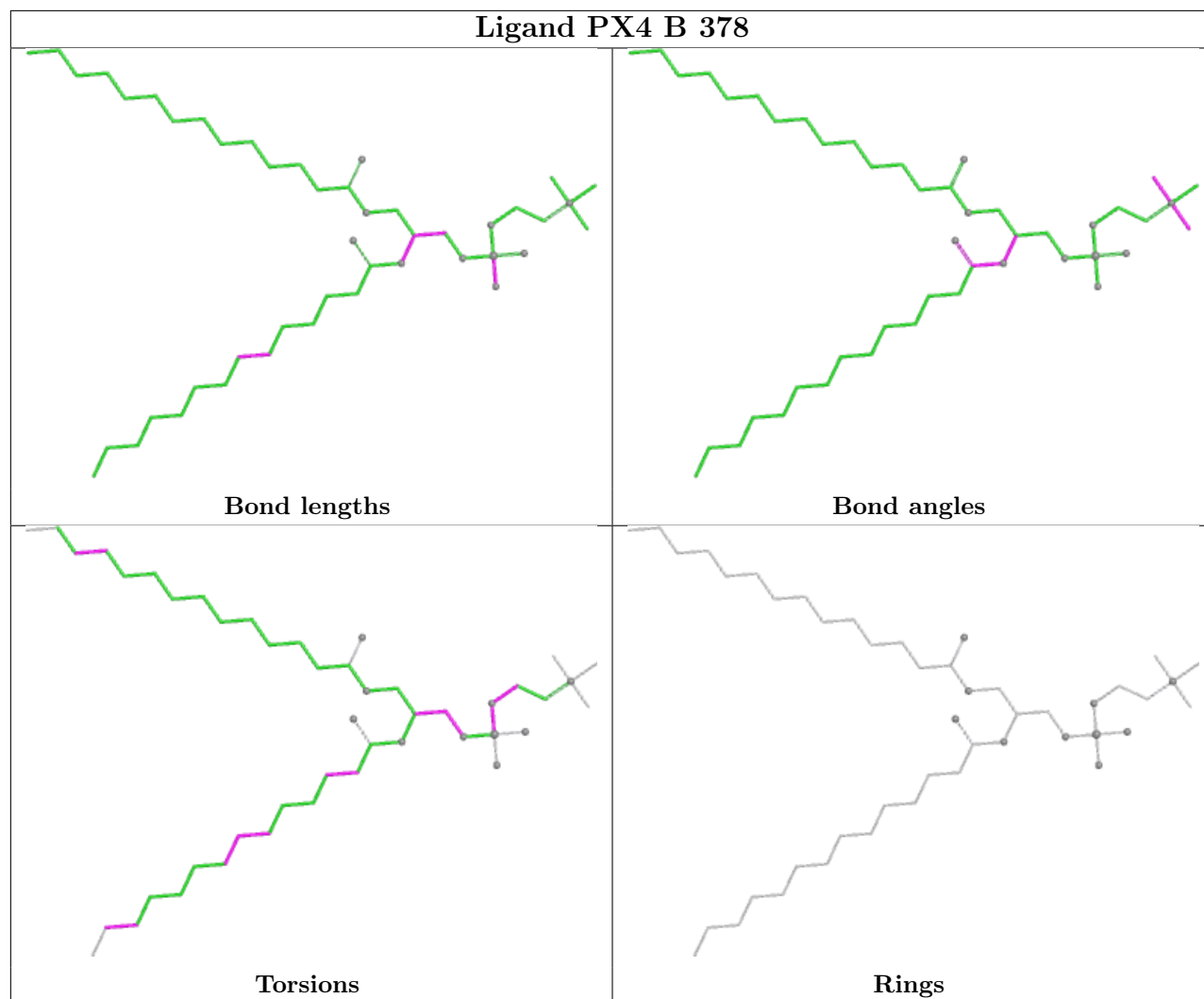


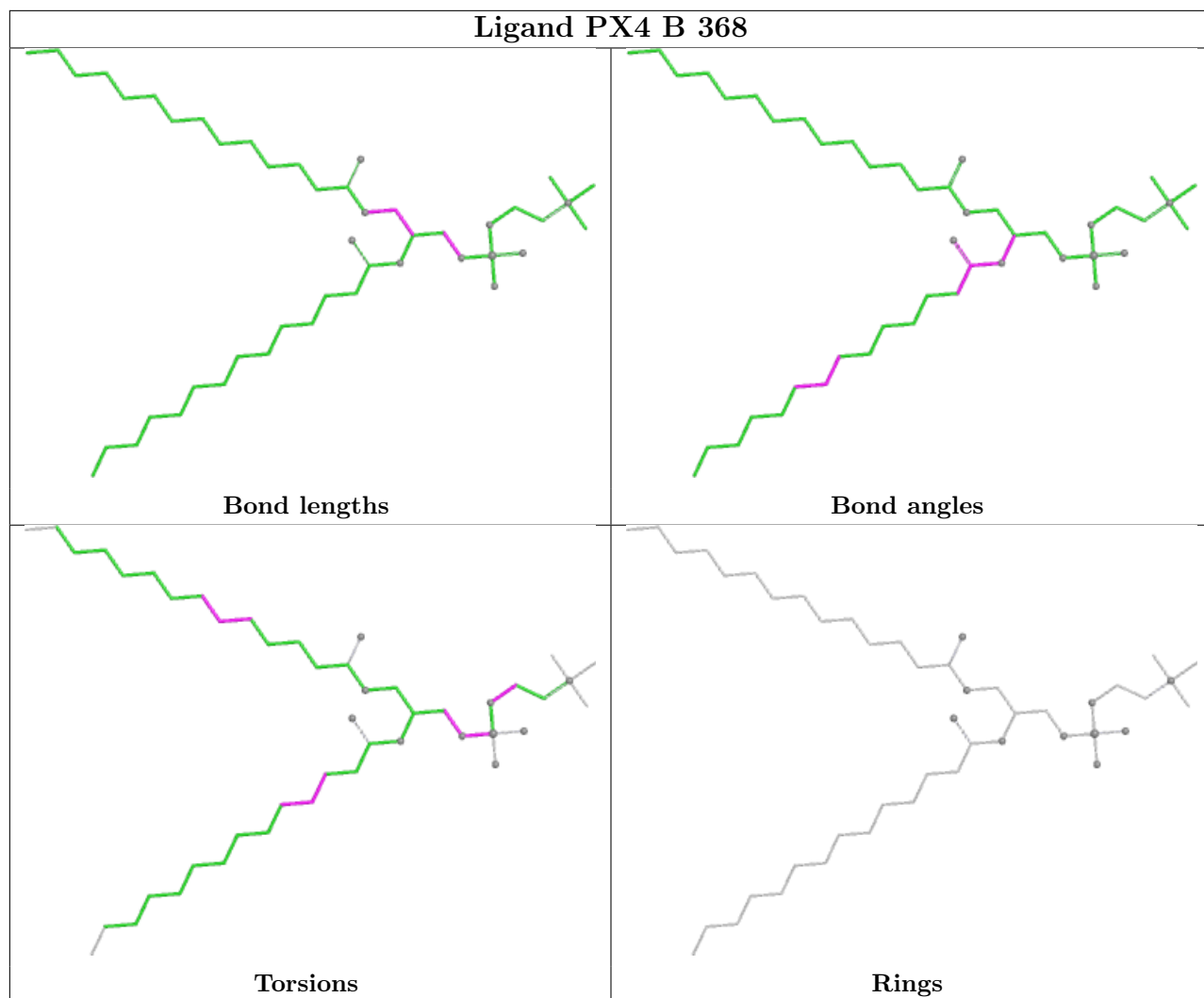


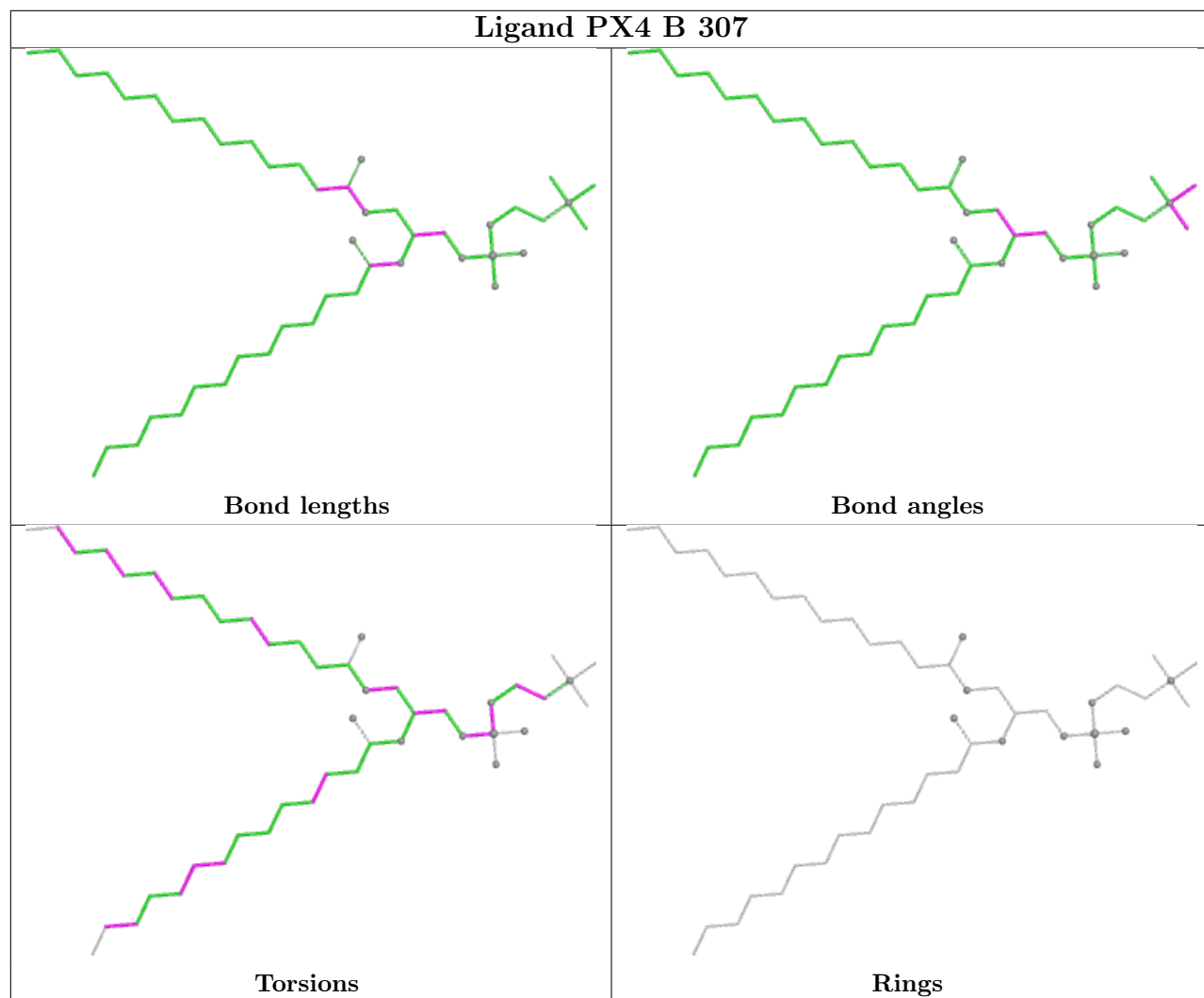


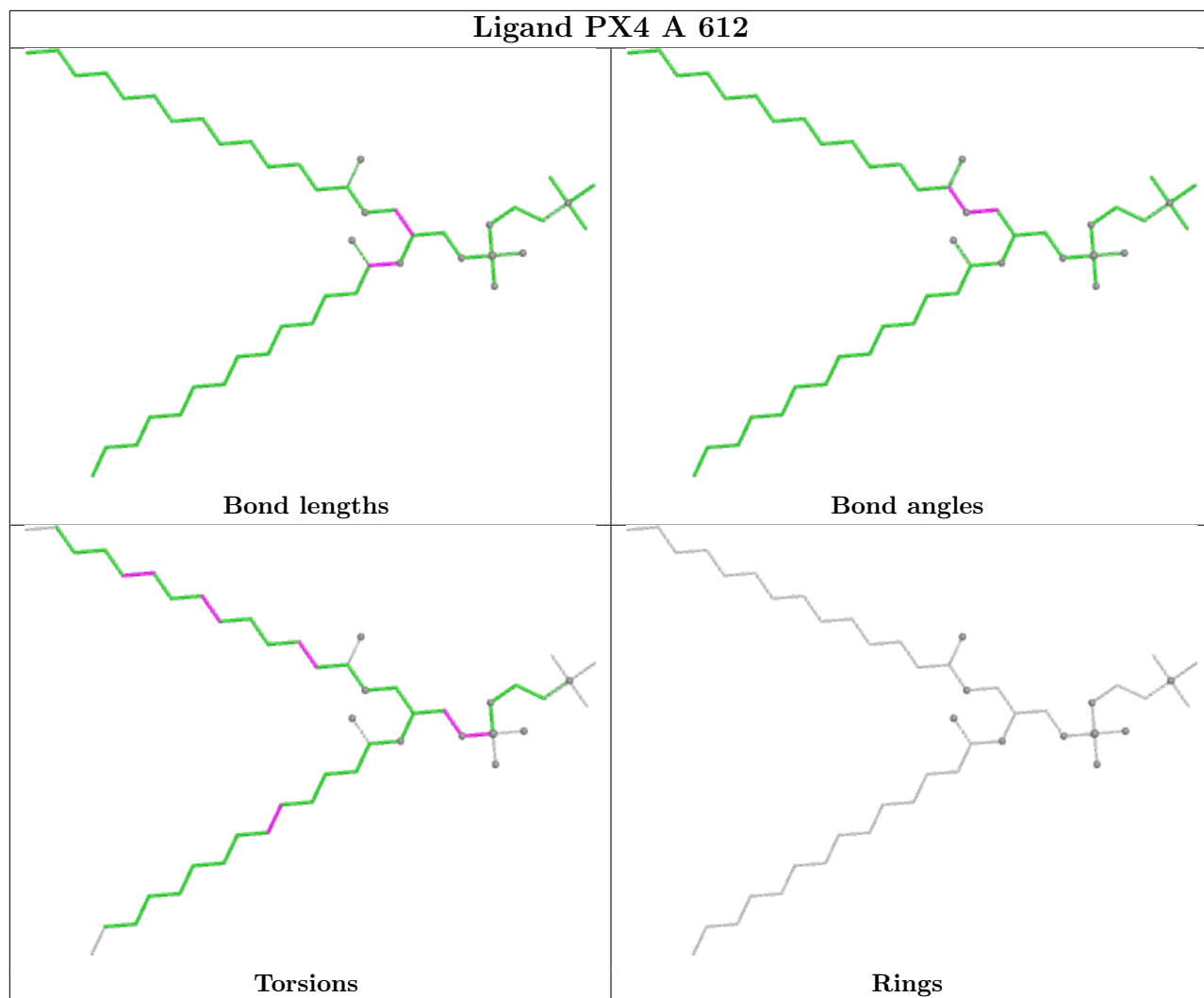


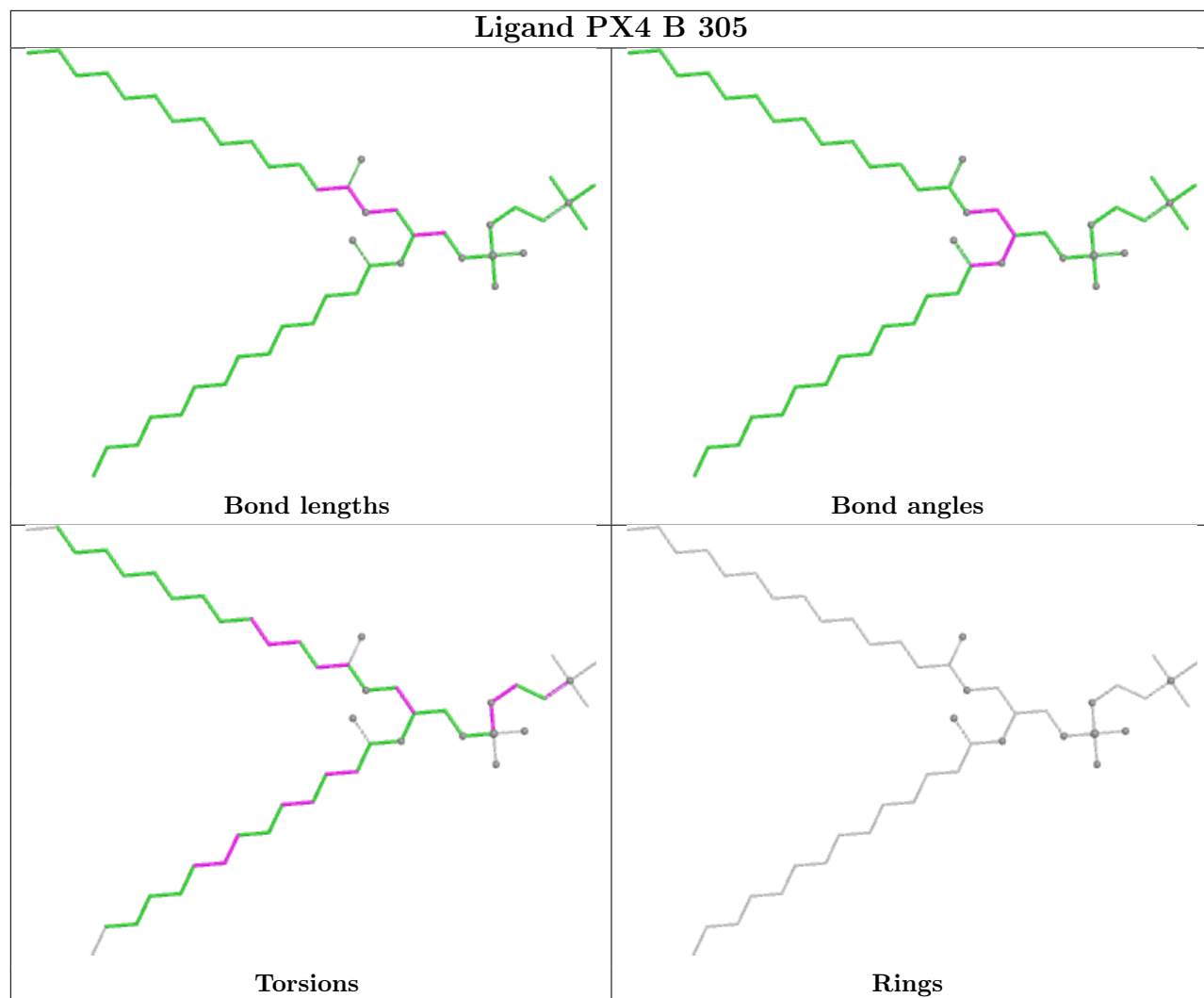


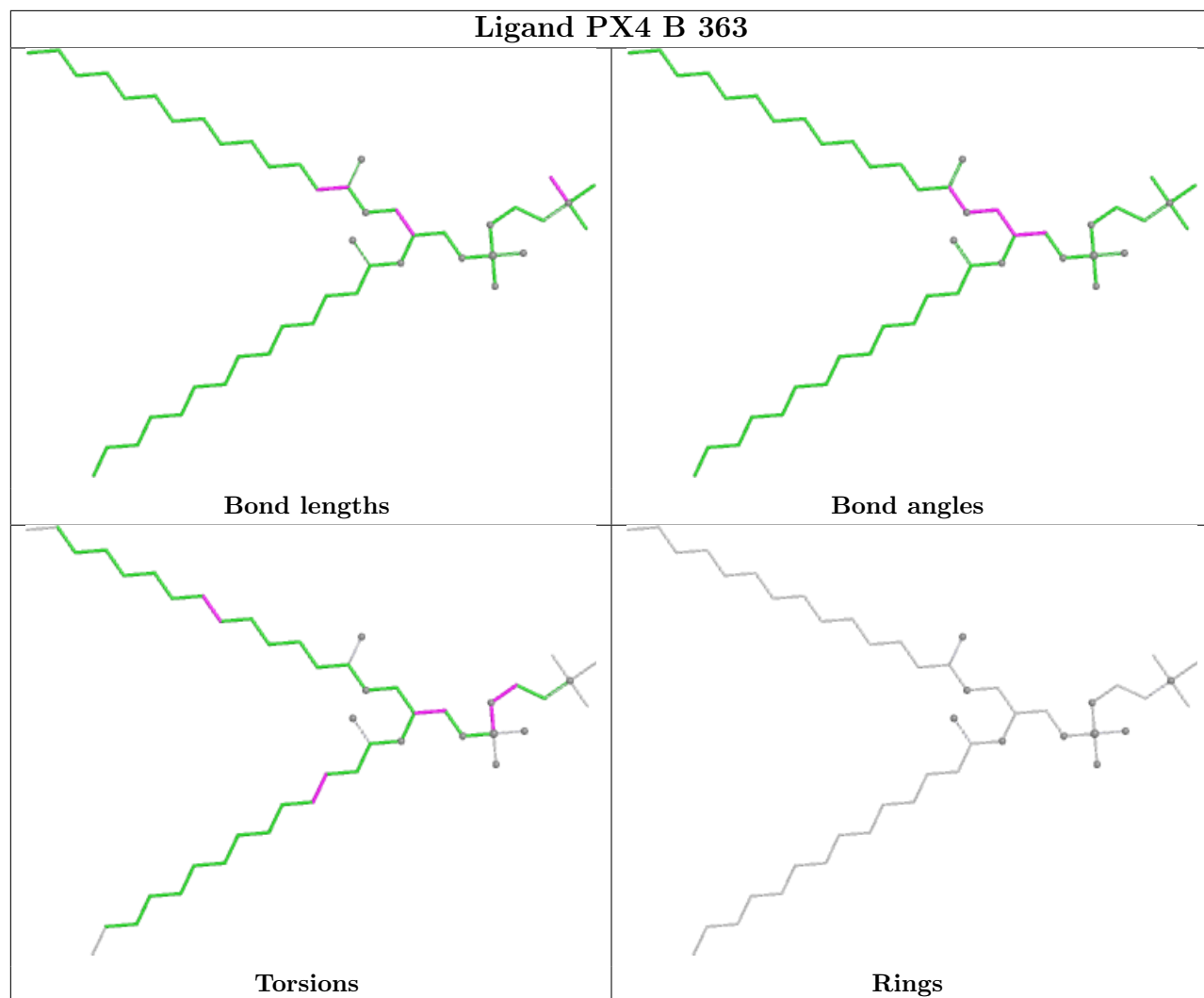


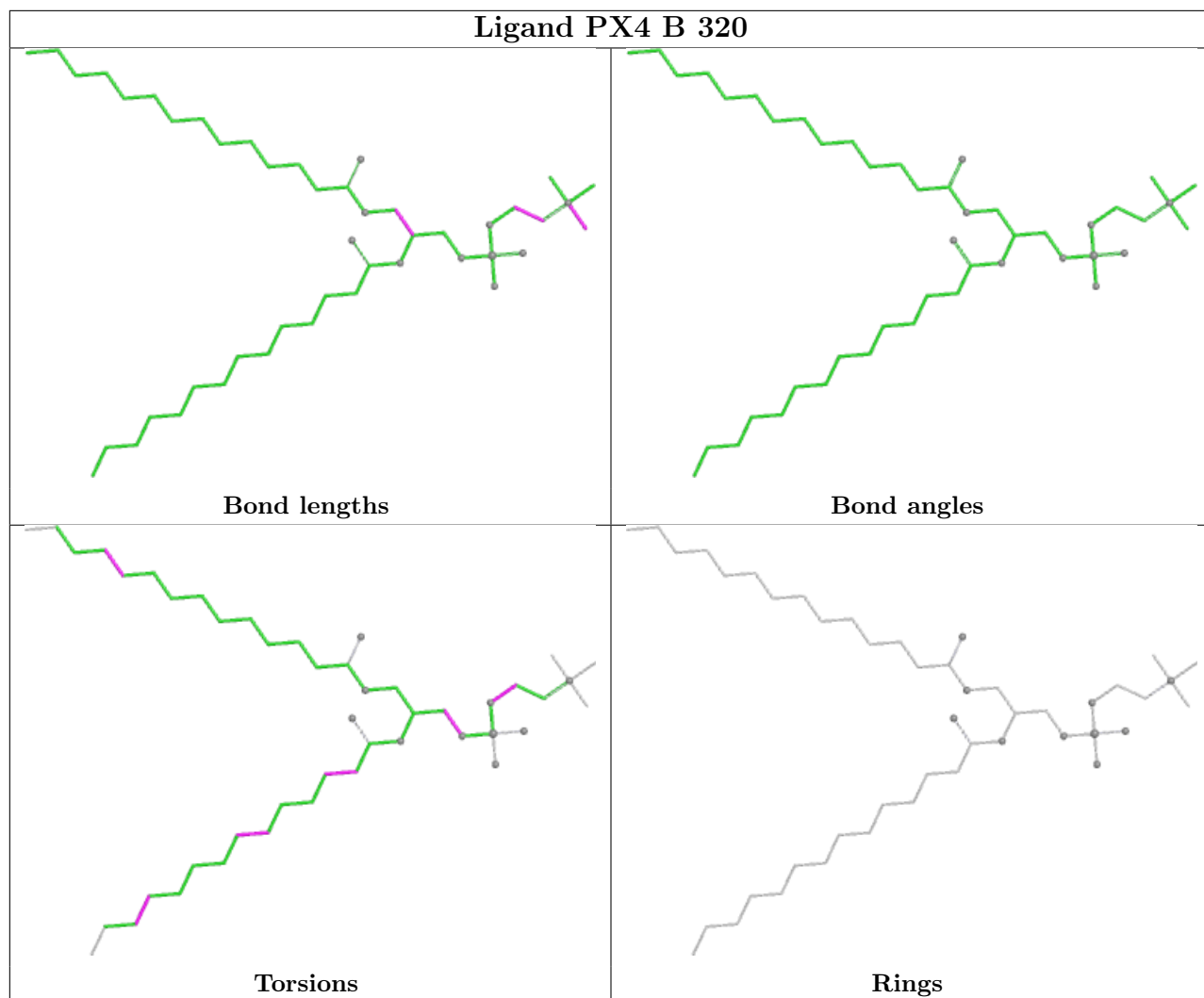


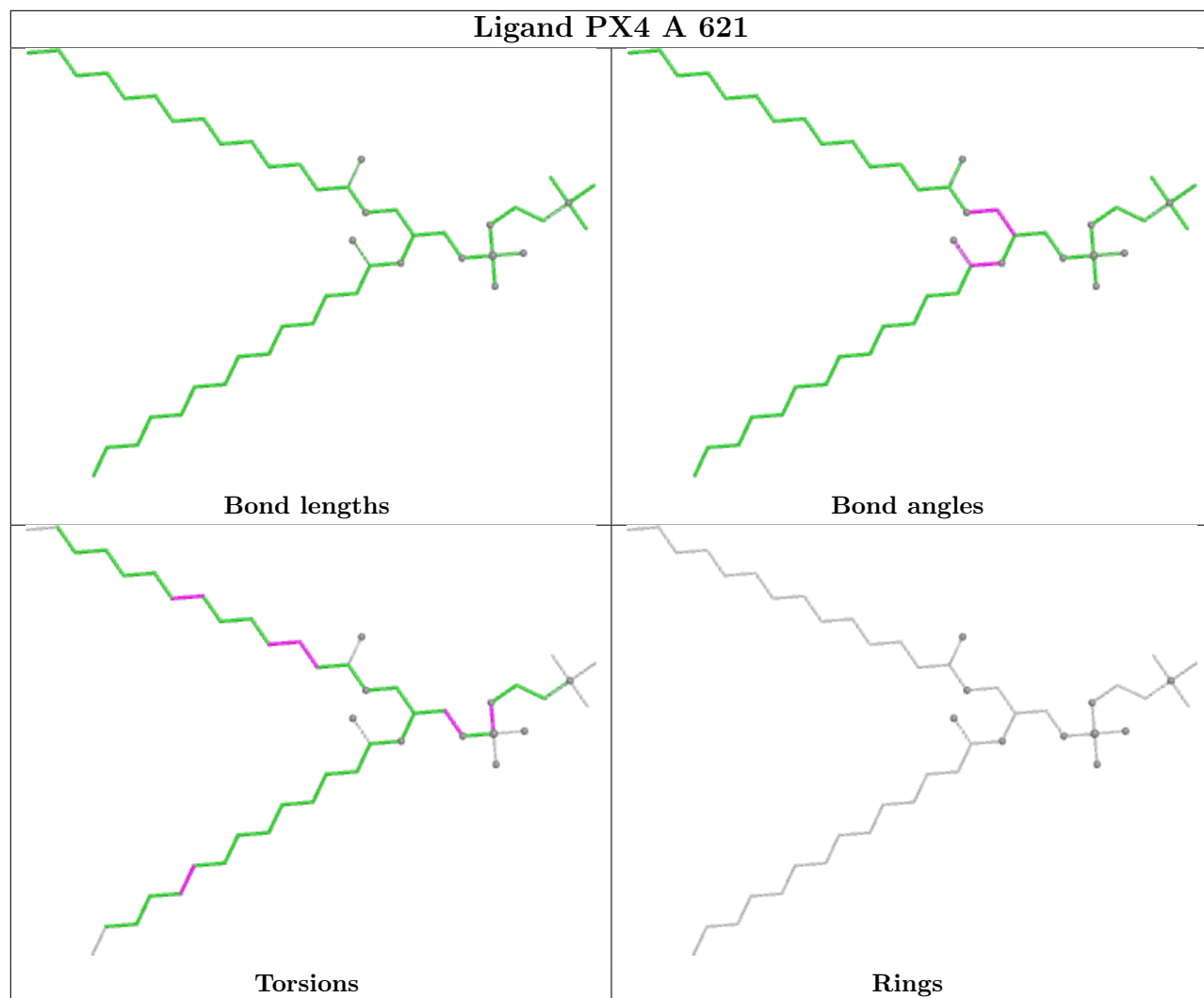


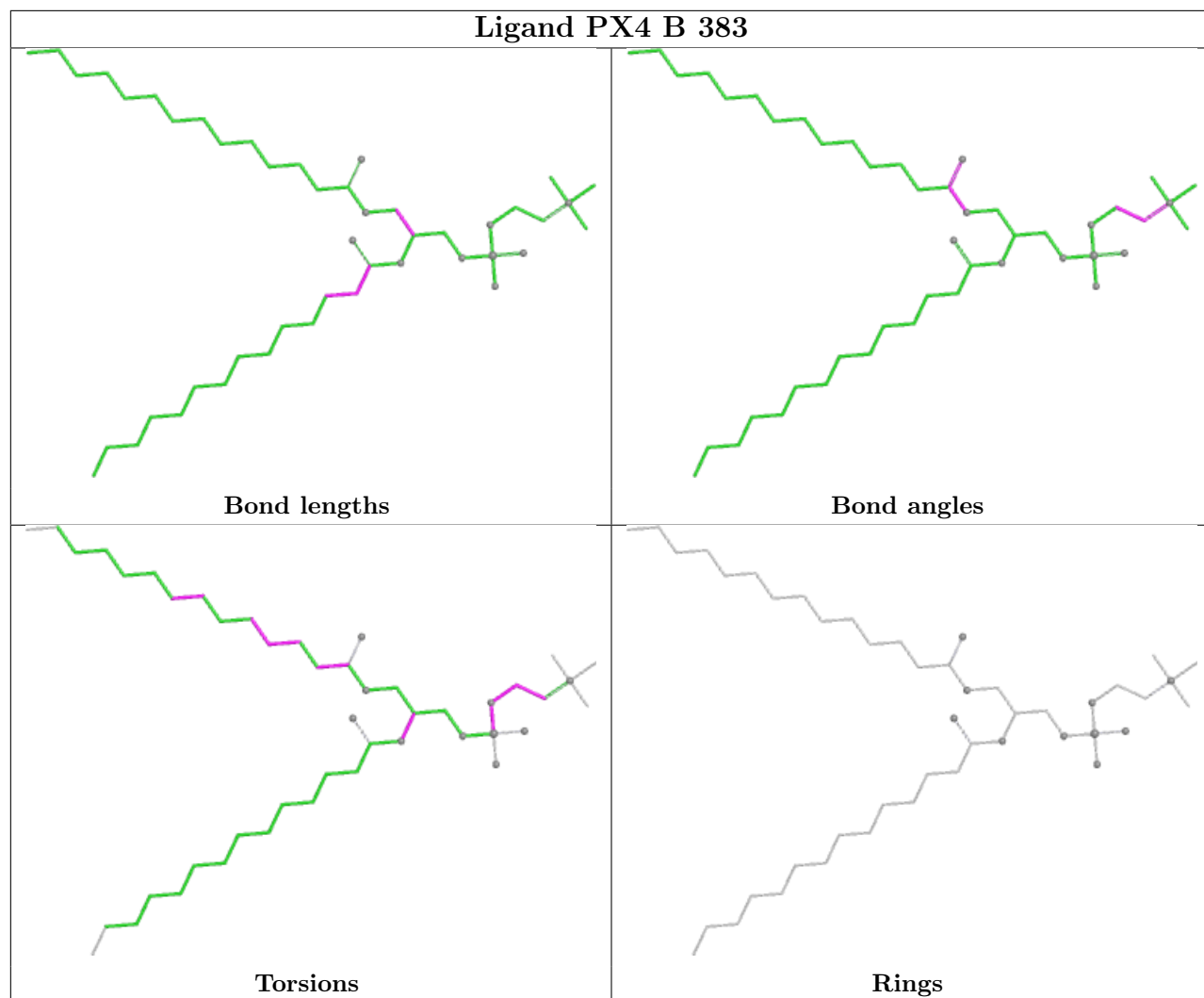


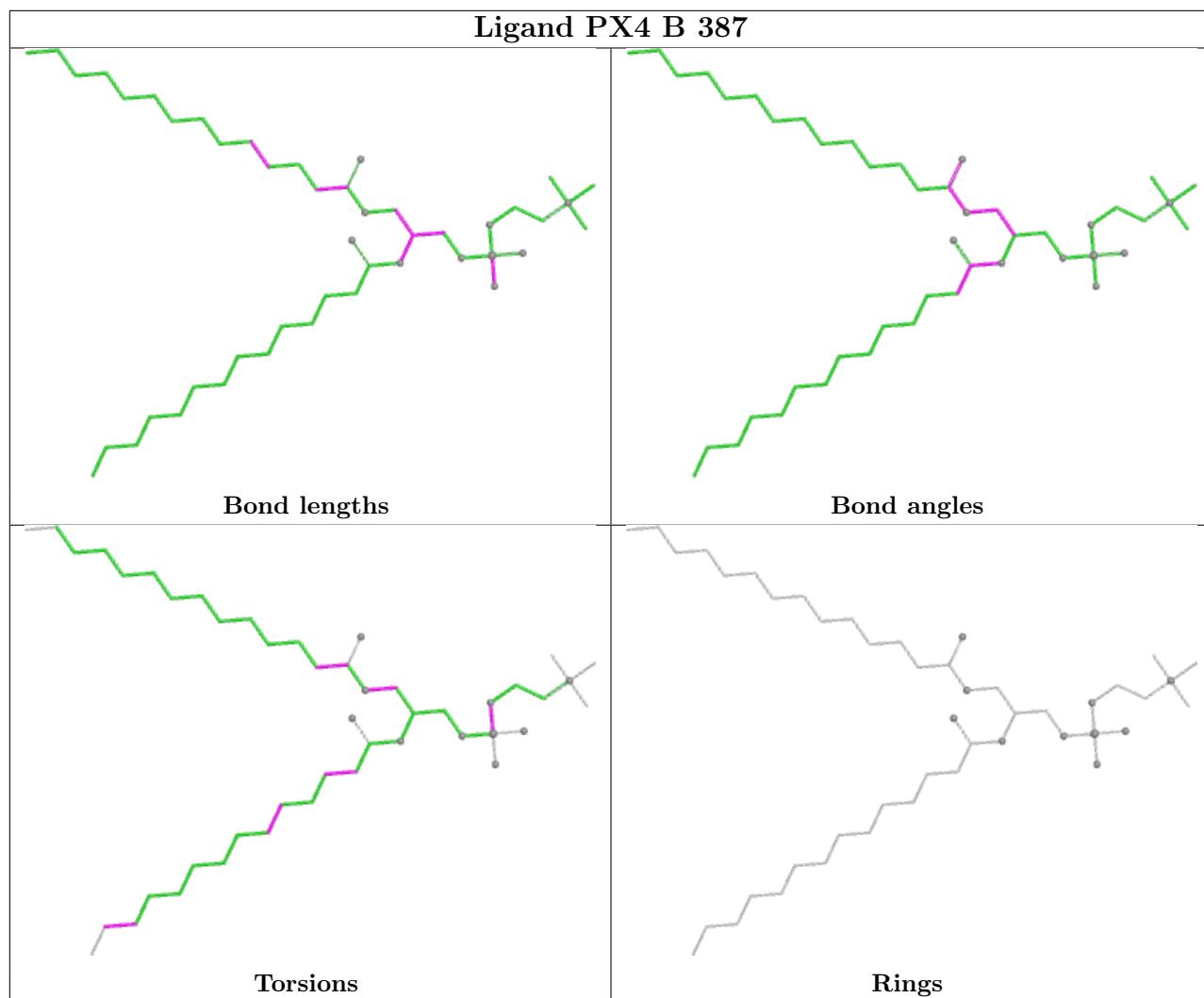


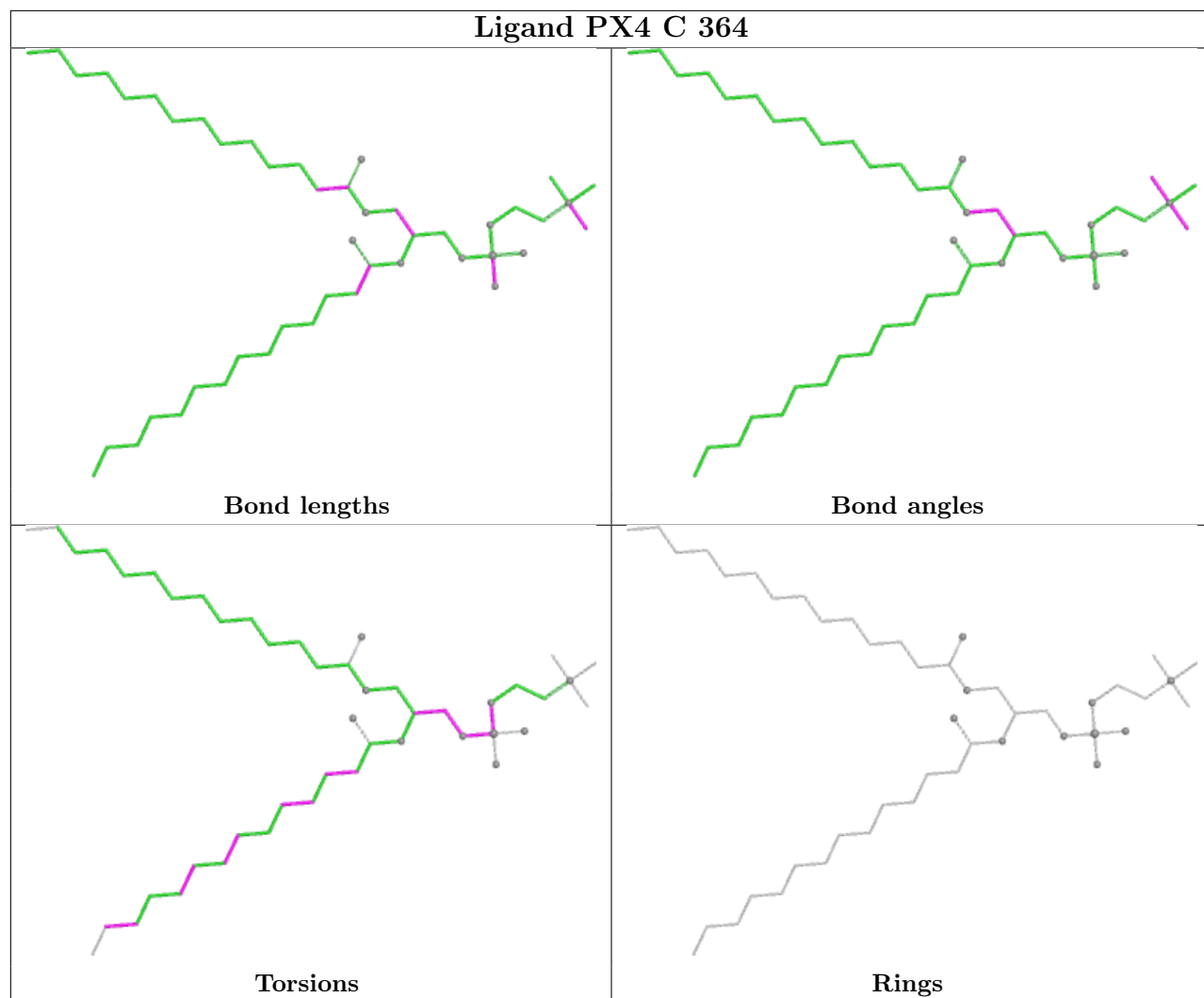


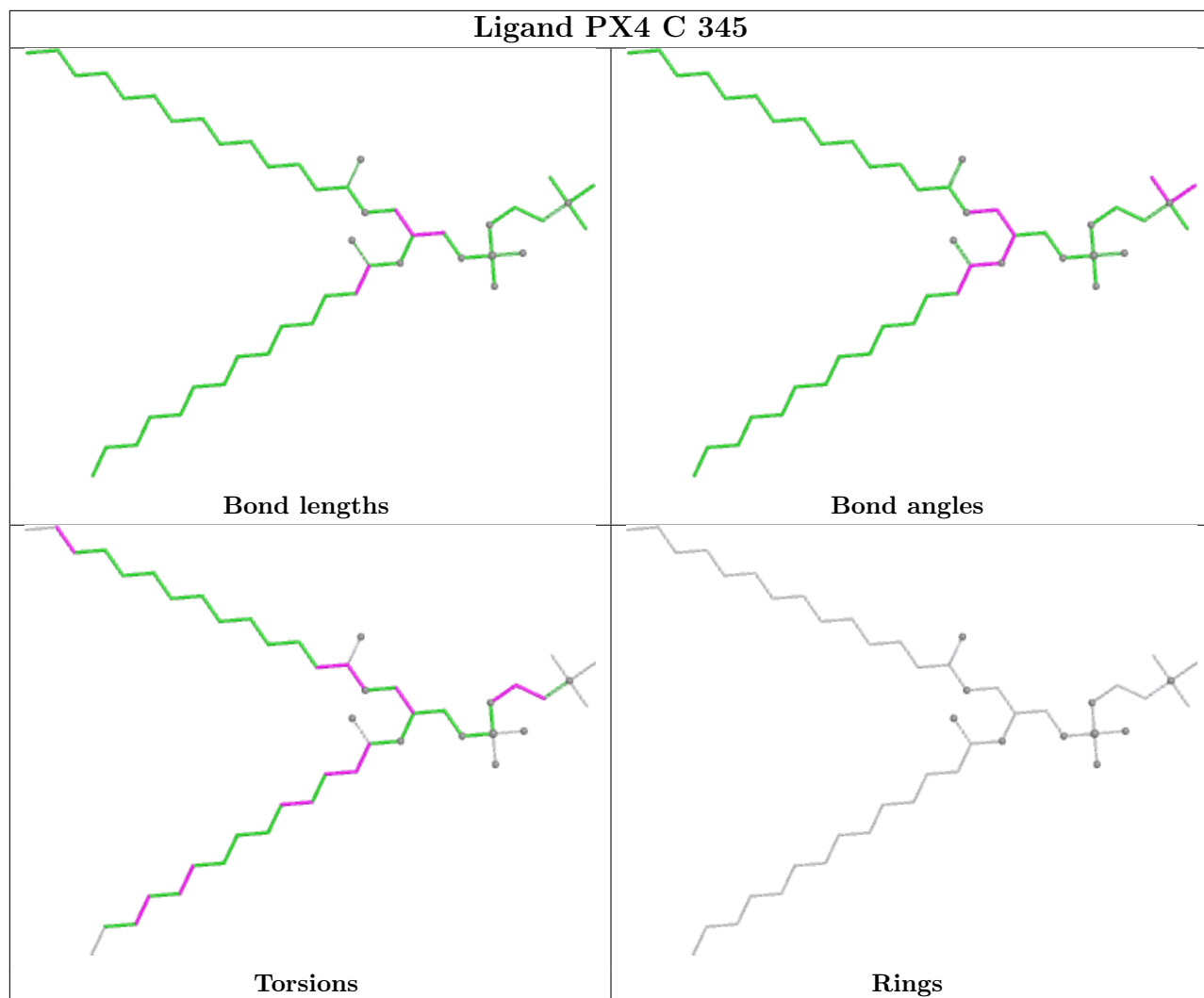


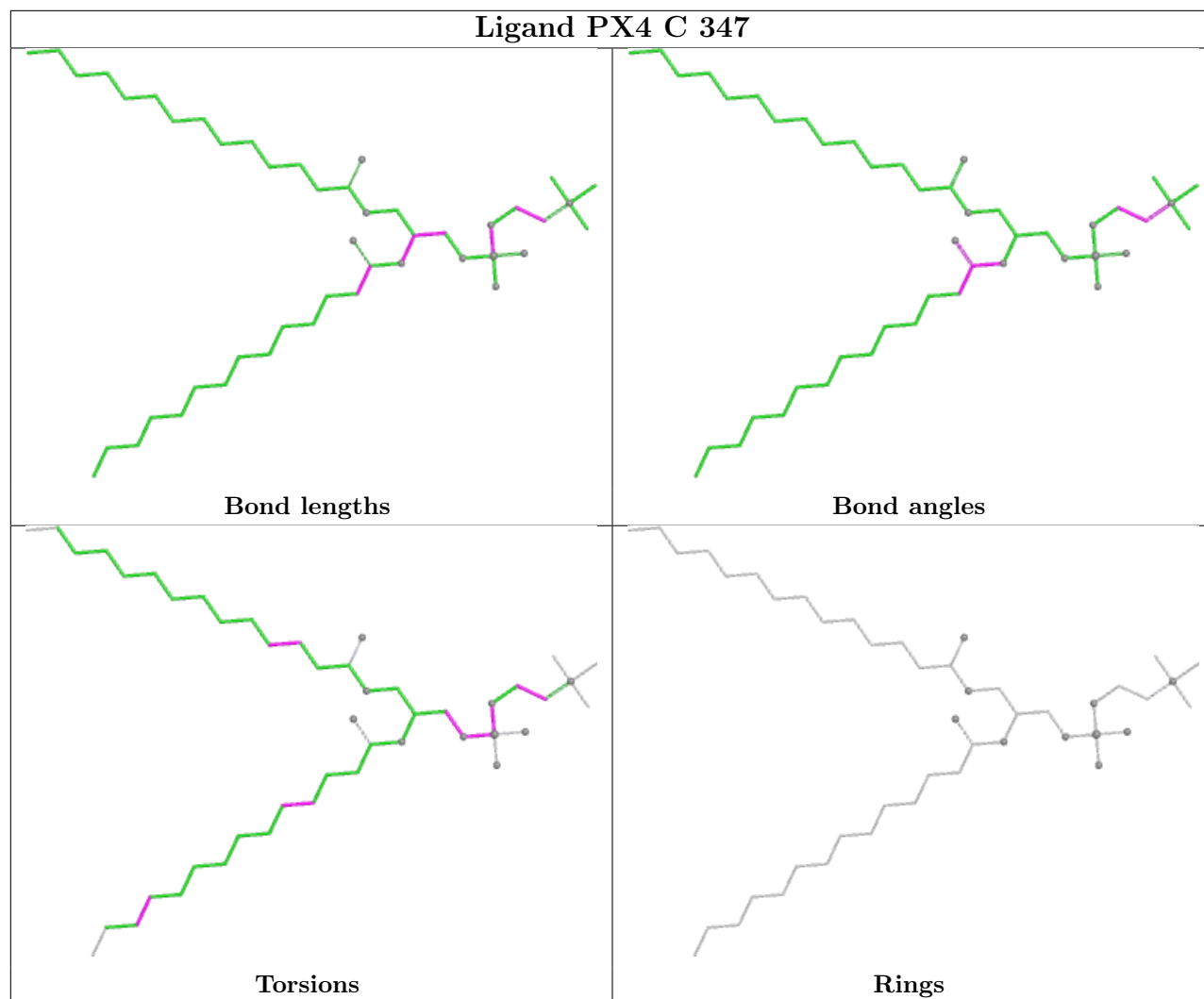


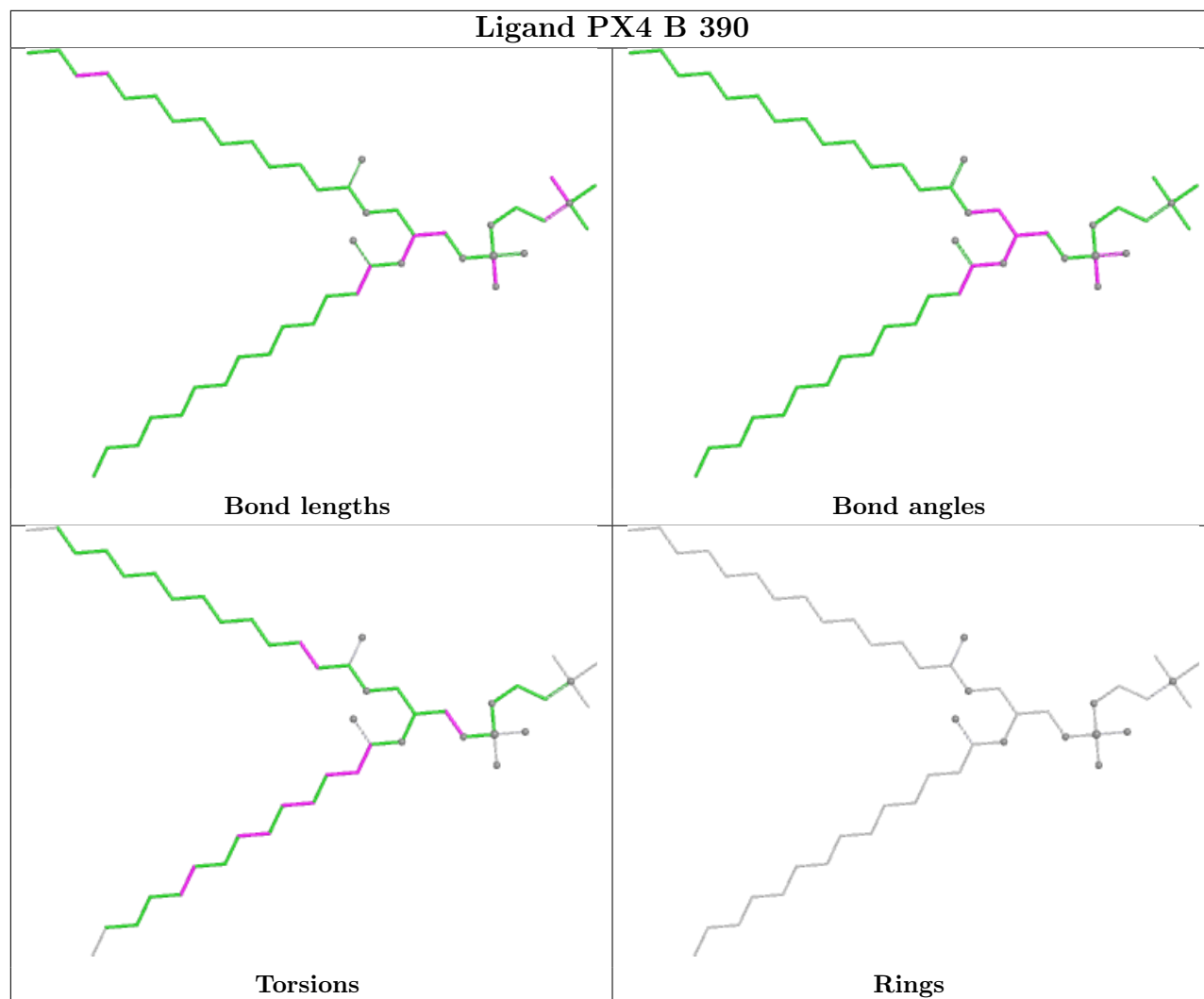


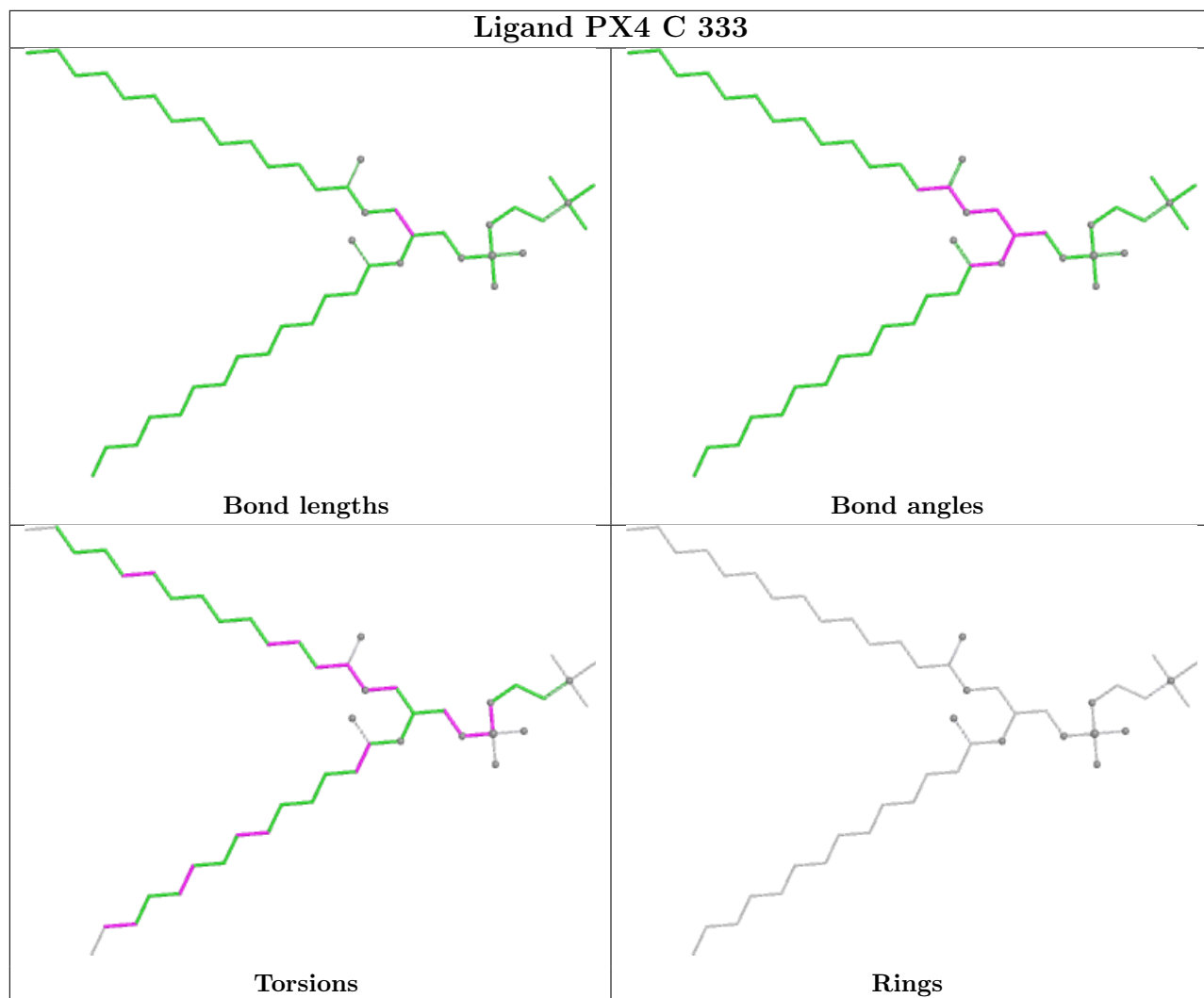


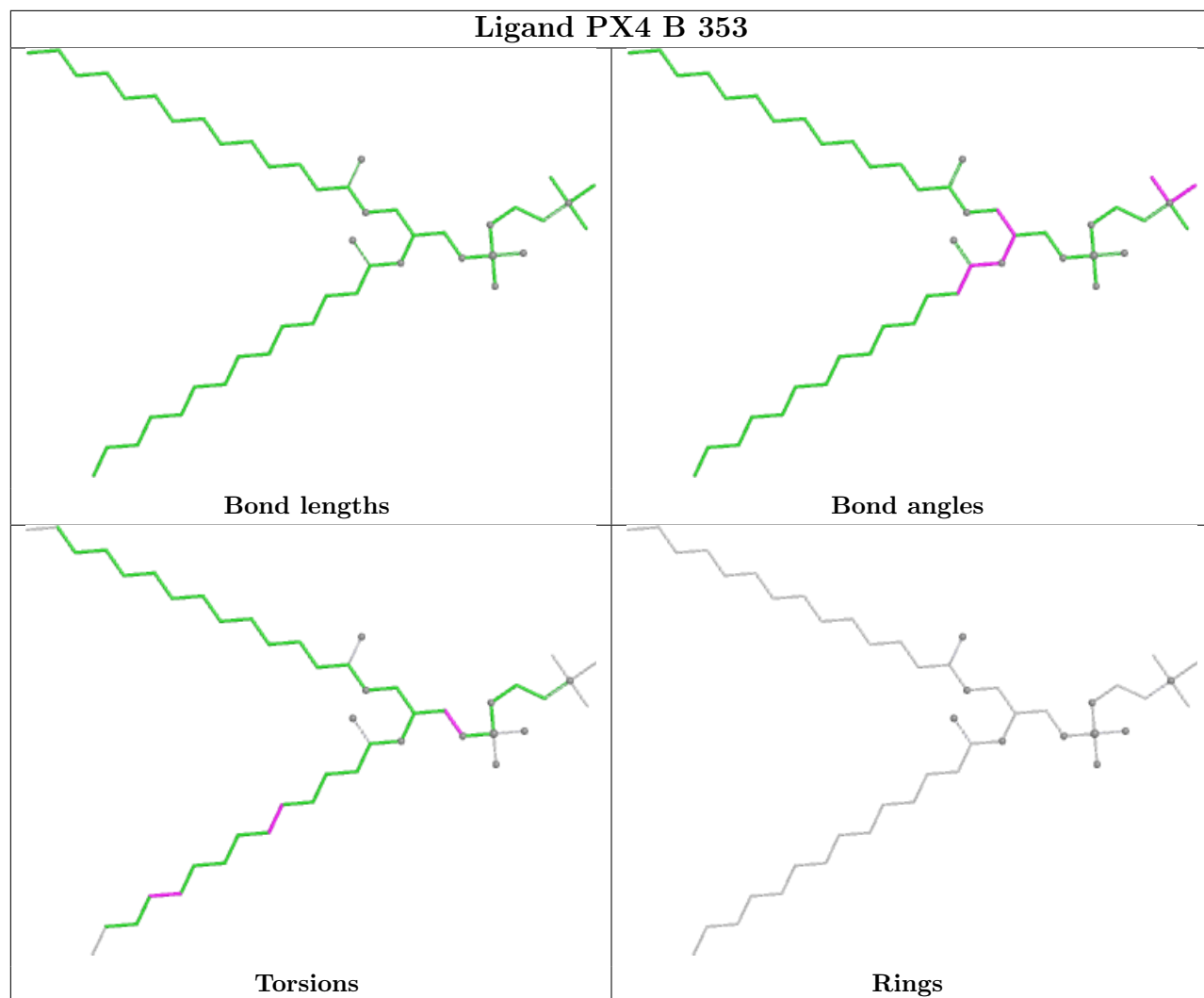


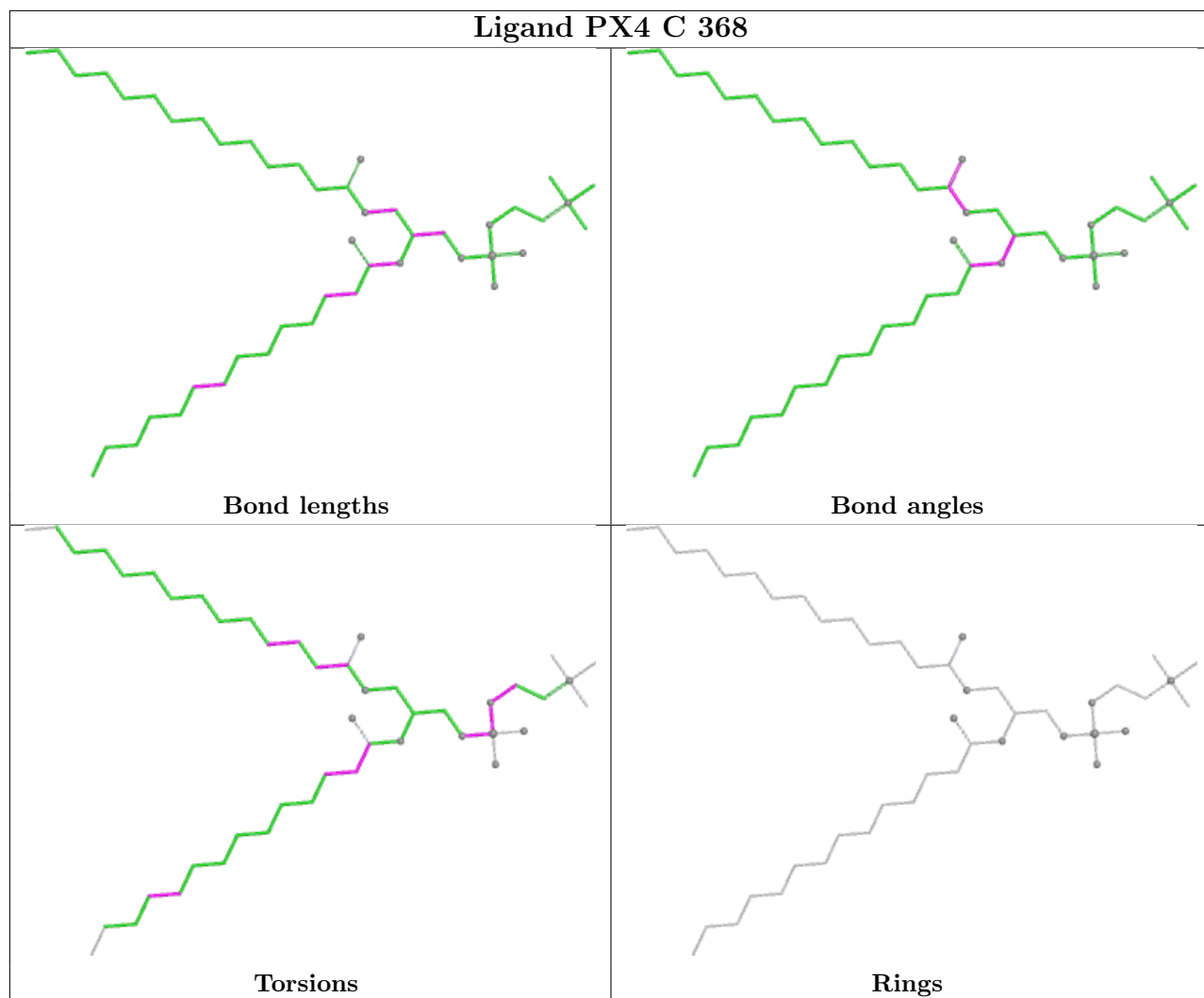


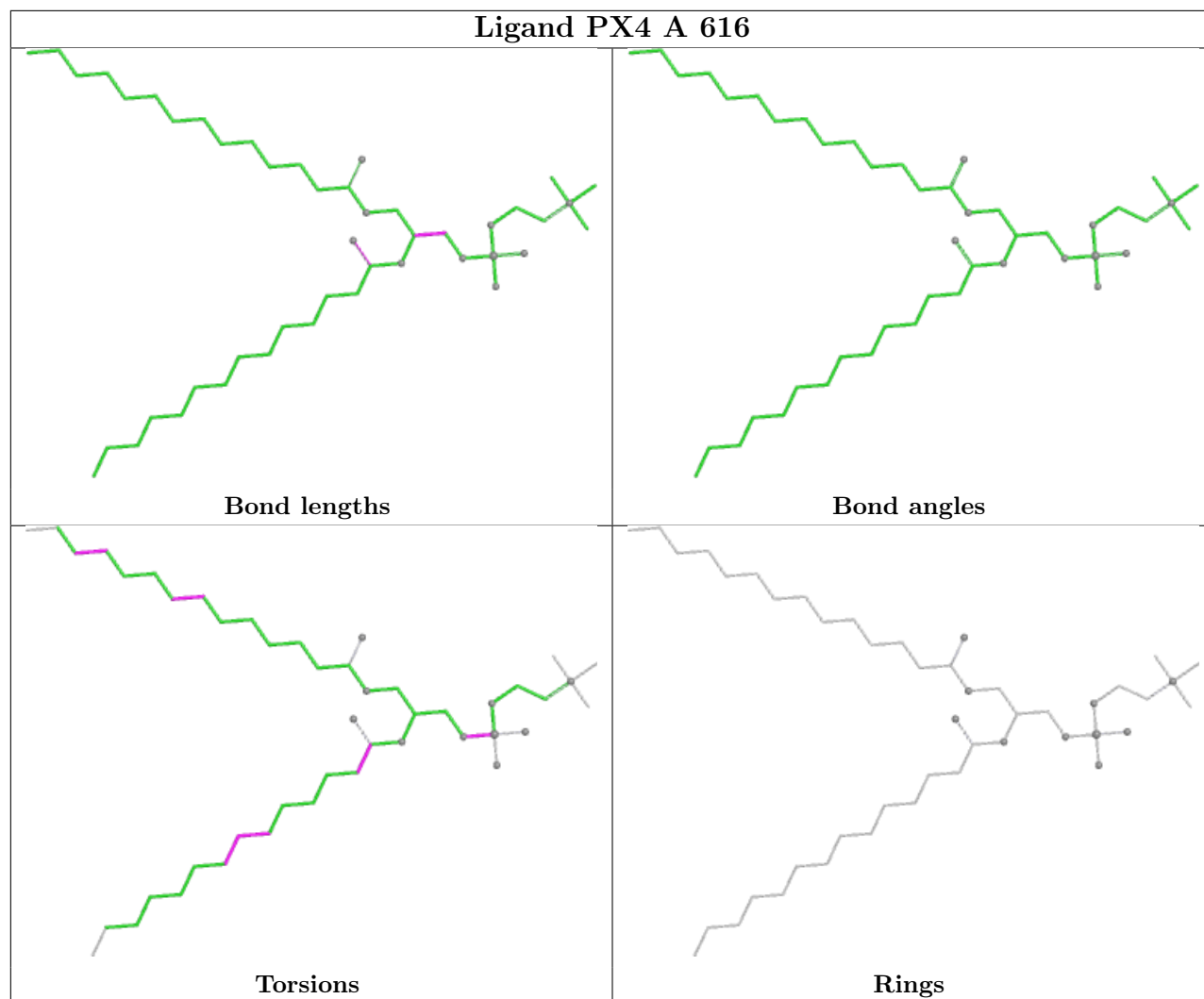


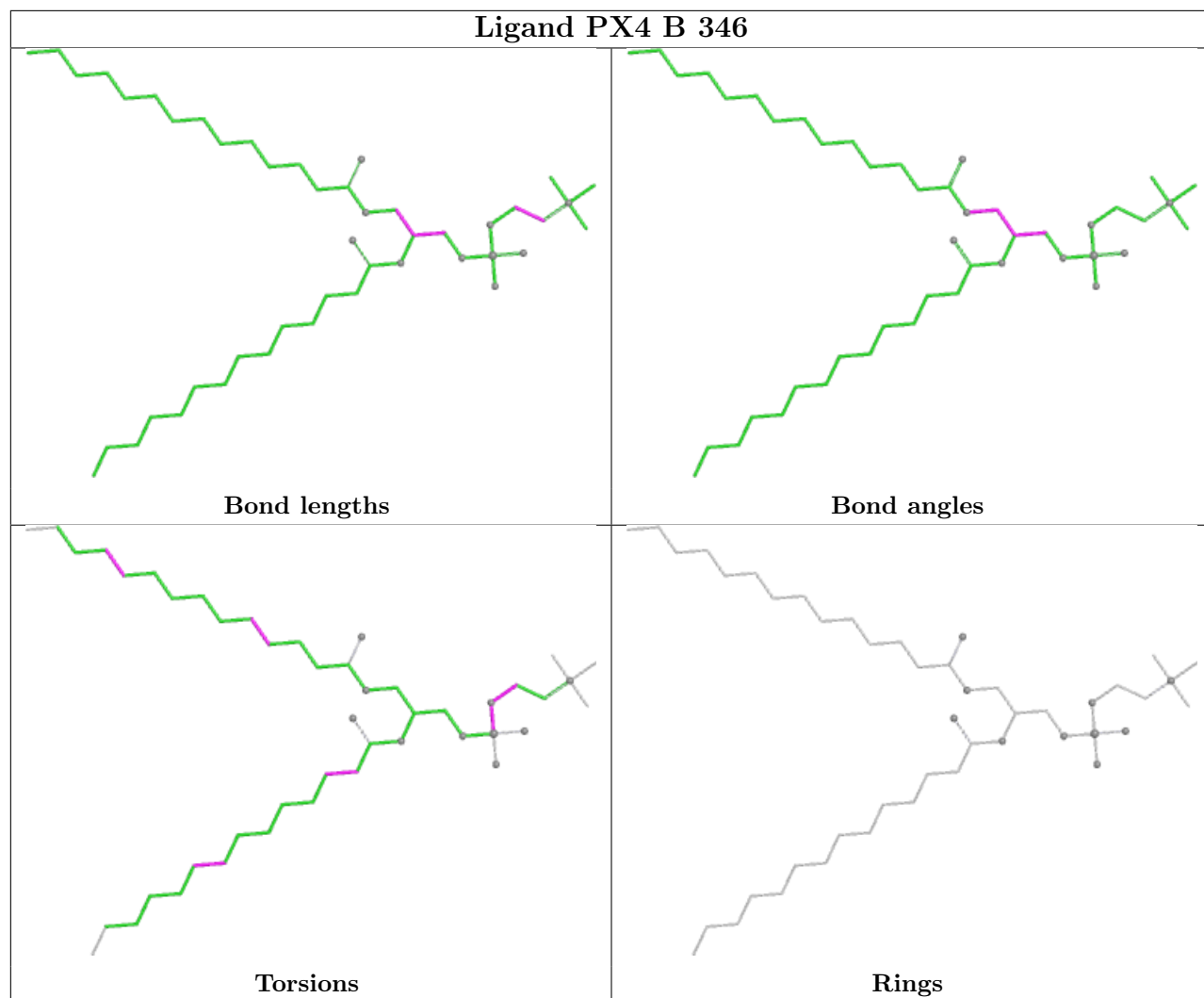


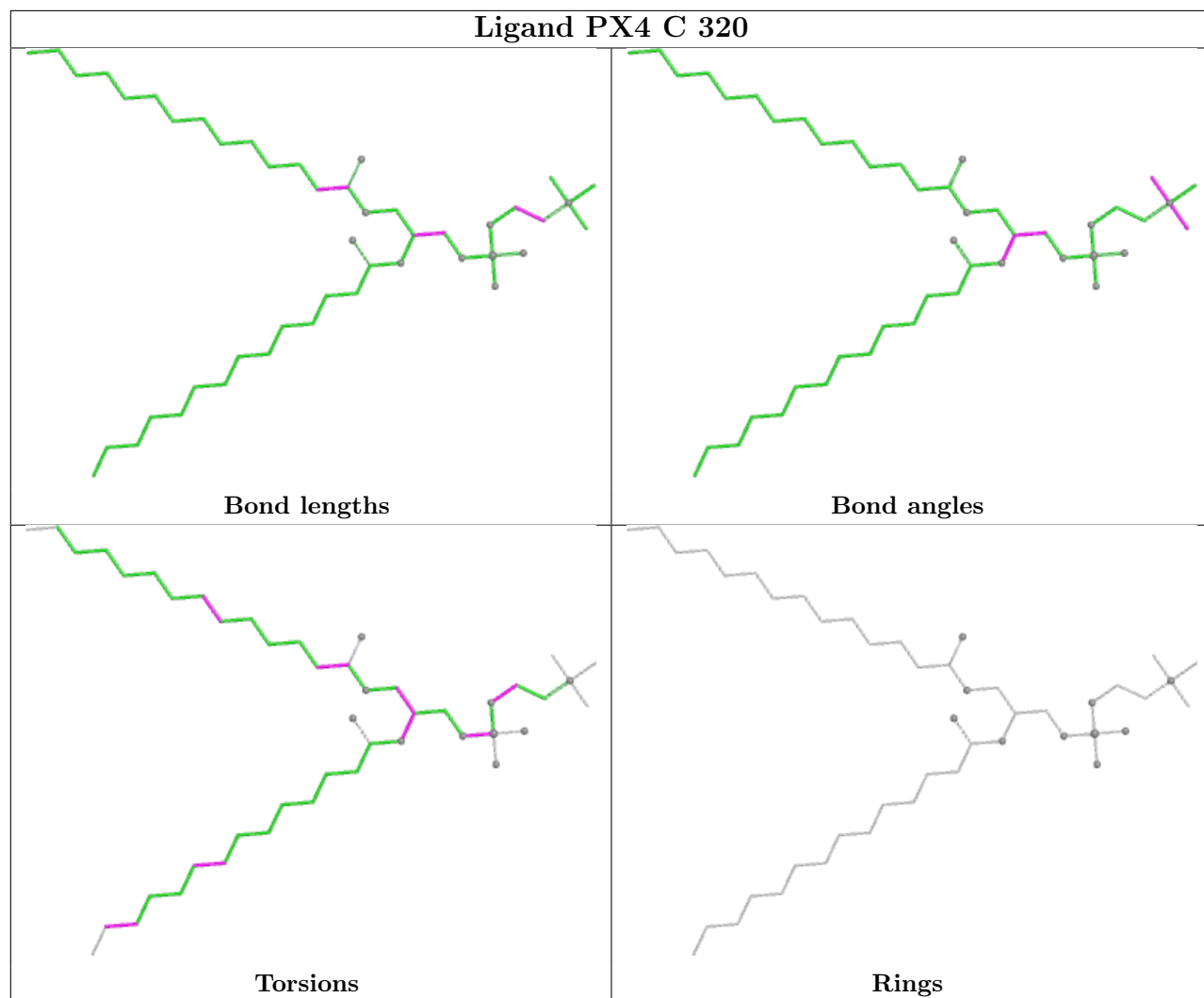


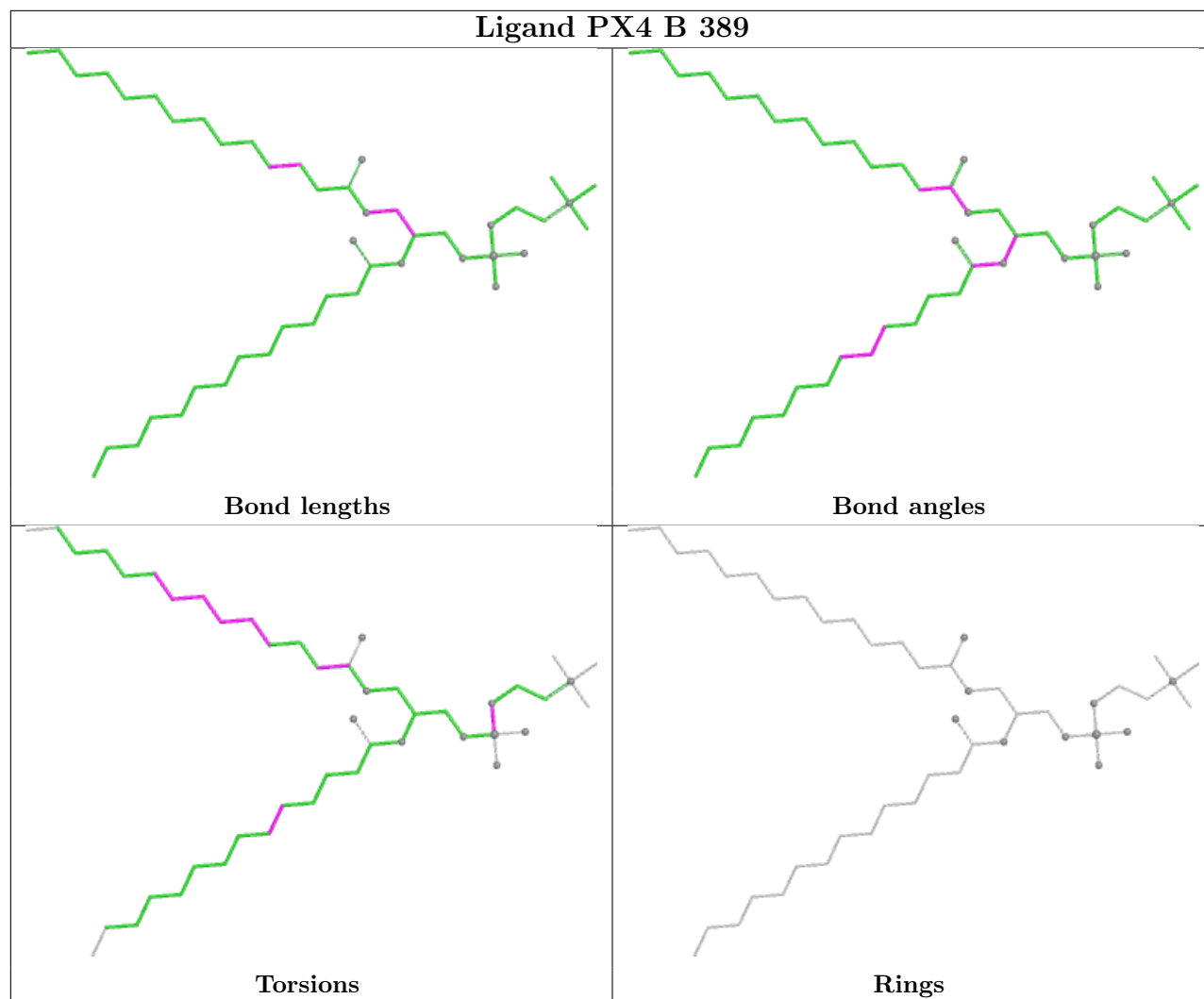












6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 4% for the well-defined parts and 4% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *showstar5.txt*

7.1.1 Bookkeeping i

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	324
Number of shifts mapped to atoms	324
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing i

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	0	—	None (insufficient data)
$^{13}\text{C}_\beta$	0	—	None (insufficient data)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	92	1.12 \pm 0.83	None needed (imprecise)

7.1.3 Completeness of resonance assignments i

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 4%, i.e. 324 atoms were assigned a chemical shift out of a possible 8823. 0 out of 99 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	184/3063 (6%)	92/1239 (7%)	0/1236 (0%)	92/588 (16%)
Sidechain	140/4993 (3%)	105/3195 (3%)	35/1561 (2%)	0/237 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	0/767 (0%)	0/377 (0%)	0/364 (0%)	0/26 (0%)
Overall	324/8823 (4%)	197/4811 (4%)	35/3161 (1%)	92/851 (11%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 4%, i.e. 324 atoms were assigned a chemical shift out of a possible 8823. 0 out of 99 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	184/3063 (6%)	92/1239 (7%)	0/1236 (0%)	92/588 (16%)
Sidechain	140/4993 (3%)	105/3195 (3%)	35/1561 (2%)	0/237 (0%)
Aromatic	0/767 (0%)	0/377 (0%)	0/364 (0%)	0/26 (0%)
Overall	324/8823 (4%)	197/4811 (4%)	35/3161 (1%)	92/851 (11%)

7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots [i](#)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:

