



Full wwPDB NMR Structure Validation Report ⓘ

Mar 20, 2026 – 01:03 AM UTC

PDB ID : 2MZH / pdb_00002mzh
BMRB ID : 25488
Title : NMR Solution Structure of the PRO Form of Human Matrilysin (proMMP-7)
in Complex with Zwitterionic Membrane
Authors : Prior, S.H.; Van Doren, S.R.
Deposited on : 2015-02-12

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 : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

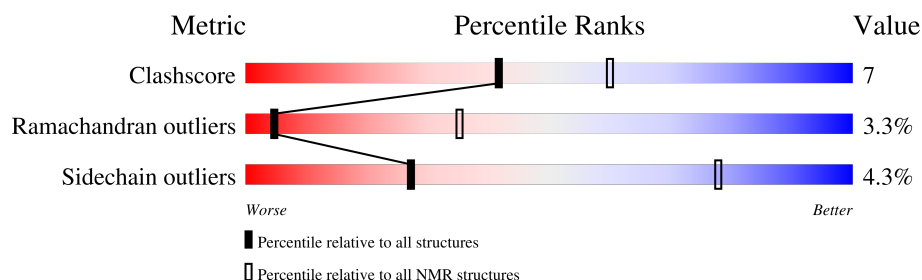
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 48%.

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	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

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	248	

2 Ensemble composition and analysis

This entry contains 20 models. Model 11 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

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:11-A:239 (229)	1.15	11

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 3 clusters and 2 single-model clusters were found.

Cluster number	Models
1	1, 2, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 17, 19
2	9, 18
3	3, 15
Single-model clusters	16; 20

3 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 9696 atoms, of which 1898 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Matrilysin.

Mol	Chain	Residues	Atoms						Trace
1	A	248	Total	C	H	N	O	S	0
			3850	1240	1898	339	364	9	

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	195	ALA	GLU	engineered mutation	UNP P09237

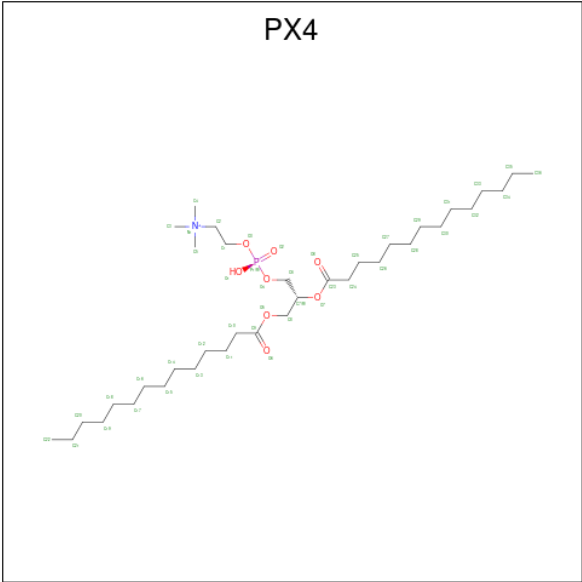
- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	
2	A	2	Total	Ca
			2	2

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	
3	A	2	Total	Zn
			2	2

- Molecule 4 is 1,2-DIMYRISTOYL-SN-GLYCERO-3-PHOSPHOCHOLINE (CCD ID: PX4) (formula: C₃₆H₇₃NO₈P).



Mol	Chain	Residues	Atoms				
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1

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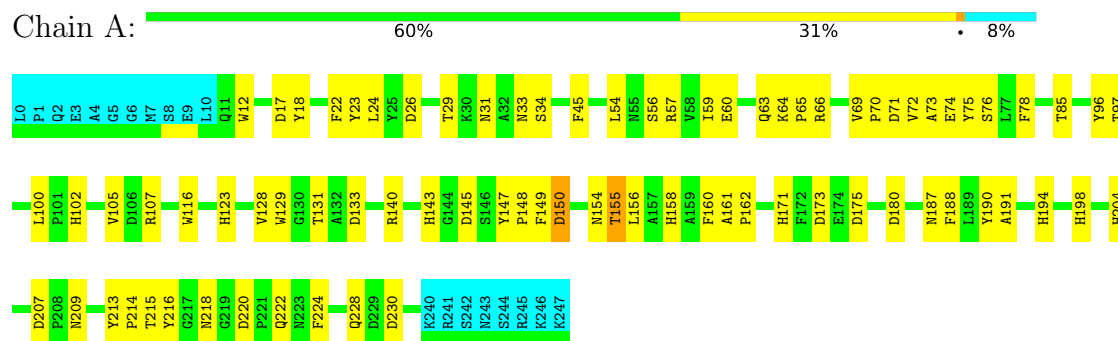
Mol	Chain	Residues	Atoms				
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1

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: Matrilysin

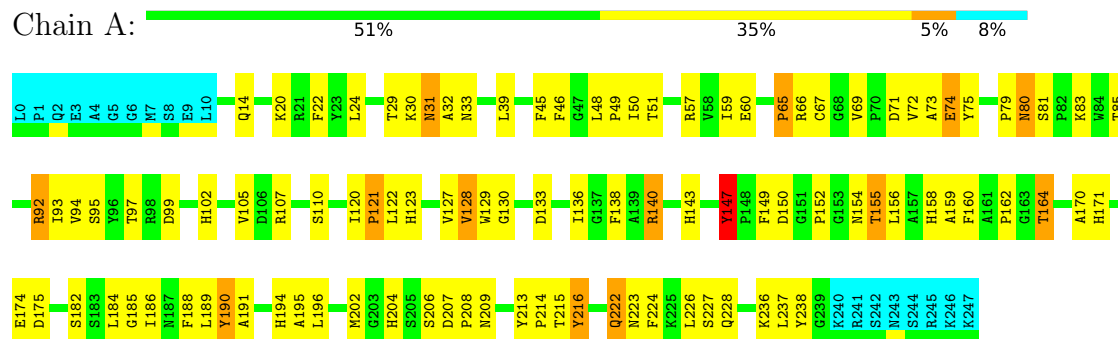


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

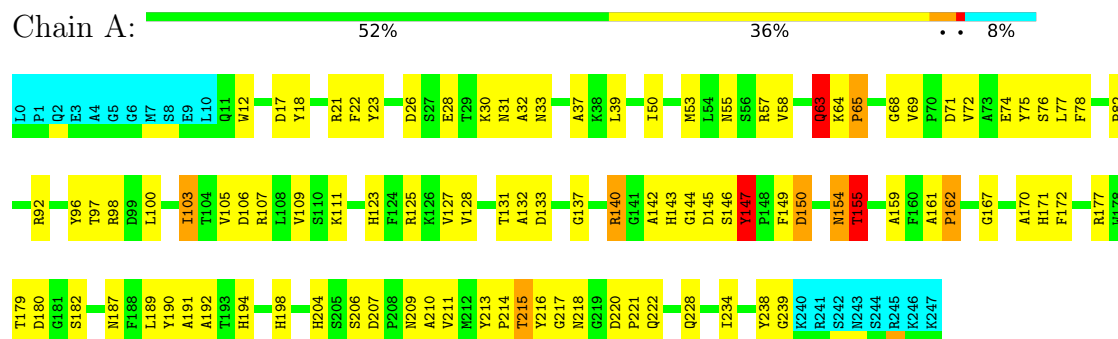
4.2.1 Score per residue for model 1

- Molecule 1: Matrilysin



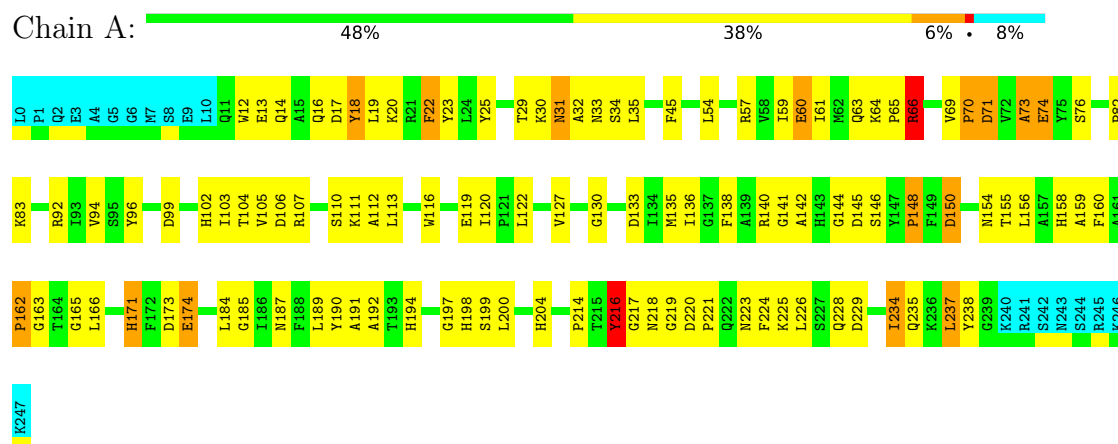
4.2.2 Score per residue for model 2

• Molecule 1: Matrilysin



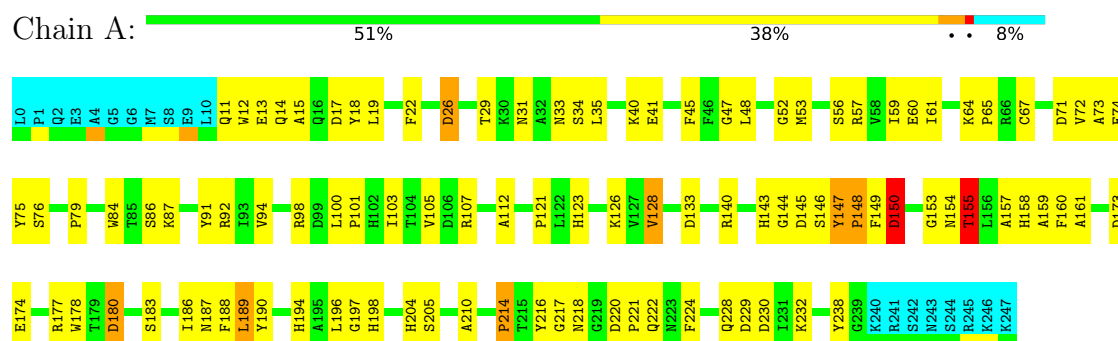
4.2.3 Score per residue for model 3

• Molecule 1: Matrilysin



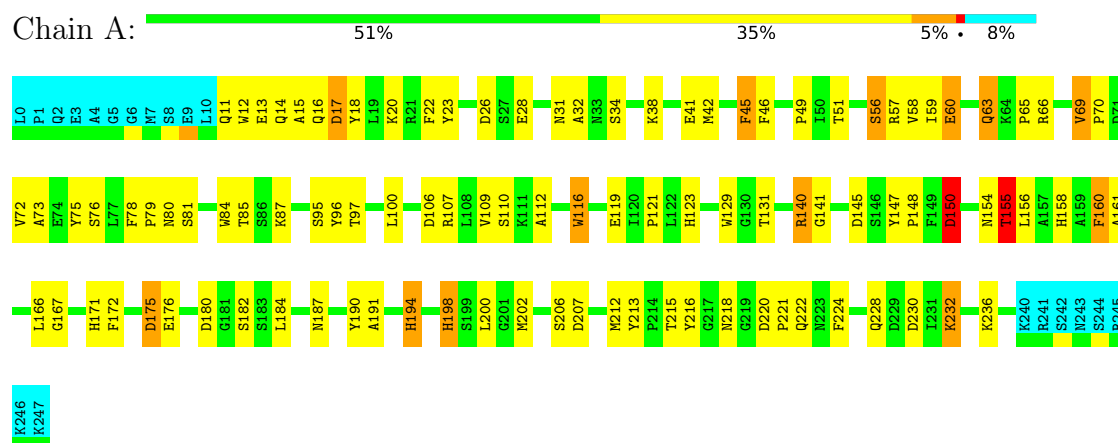
4.2.4 Score per residue for model 4

• Molecule 1: Matrilysin



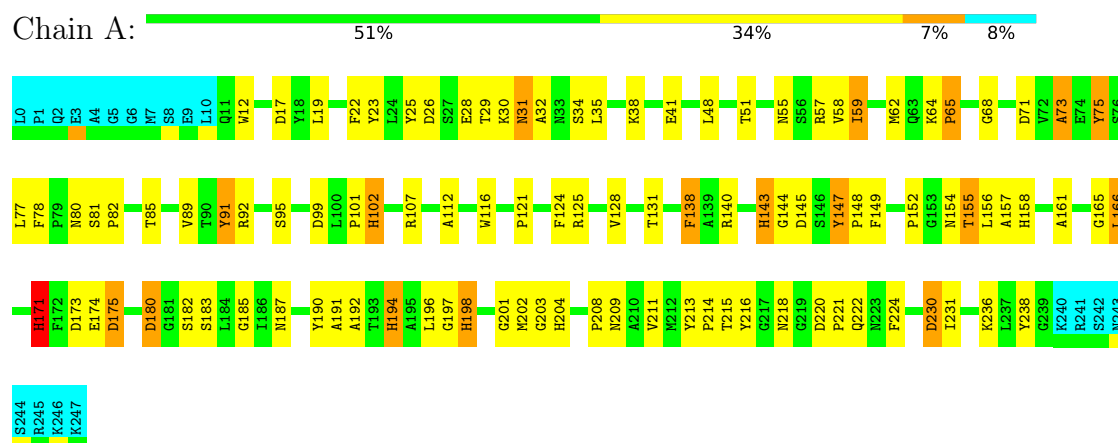
4.2.5 Score per residue for model 5

• Molecule 1: Matrilysin



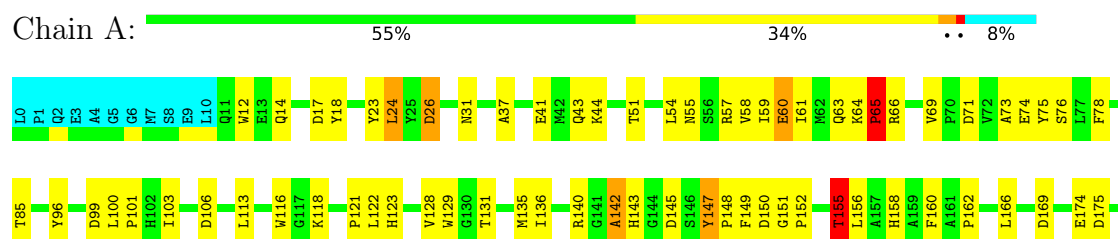
4.2.6 Score per residue for model 6

• Molecule 1: Matrilysin



4.2.7 Score per residue for model 7

• Molecule 1: Matrilysin

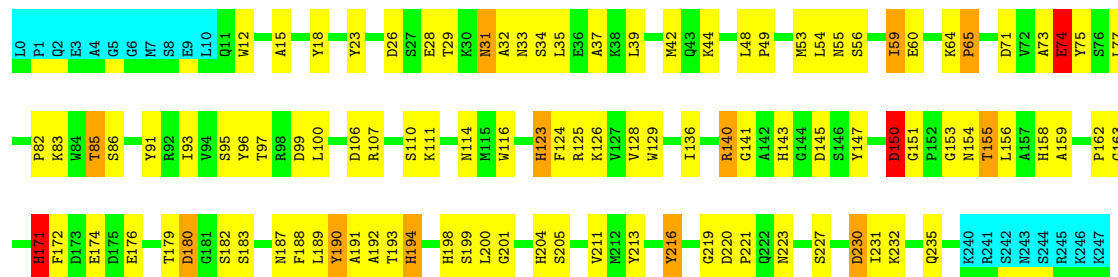




4.2.8 Score per residue for model 8

- Molecule 1: Matrilysin

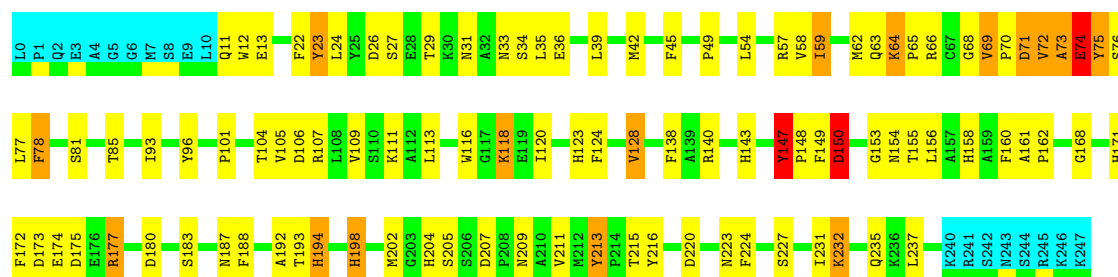
Chain A: 50% 36% 5% 8%



4.2.9 Score per residue for model 9

- Molecule 1: Matrilysin

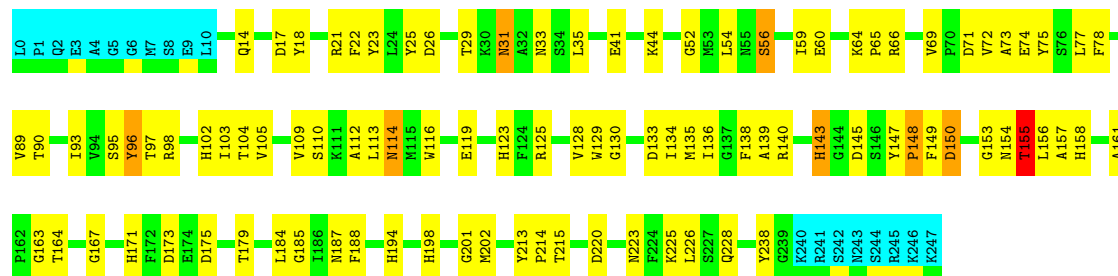
Chain A: 51% 34% 6% 8%



4.2.10 Score per residue for model 10

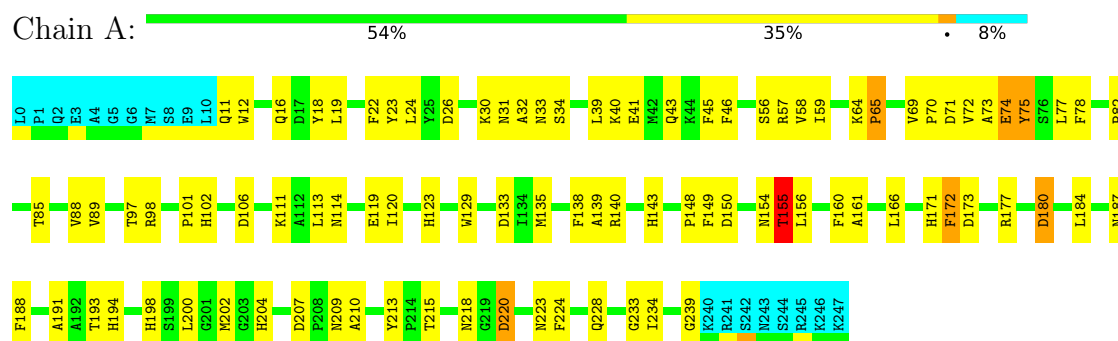
- Molecule 1: Matrilysin

Chain A: 53% 36% 8%



4.2.11 Score per residue for model 11 (medoid)

• Molecule 1: Matrilysin



4.2.12 Score per residue for model 12

• Molecule 1: Matrilysin



4.2.13 Score per residue for model 13

• Molecule 1: Matrilysin



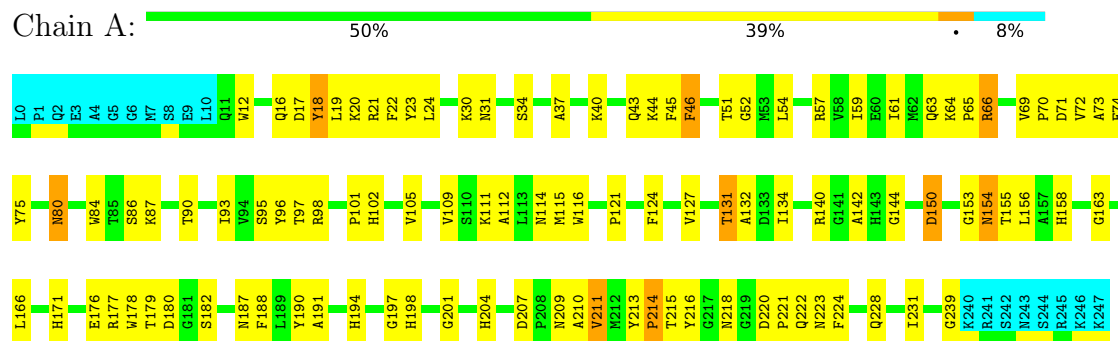
4.2.14 Score per residue for model 14

• Molecule 1: Matrilysin



4.2.15 Score per residue for model 15

• Molecule 1: Matrilysin



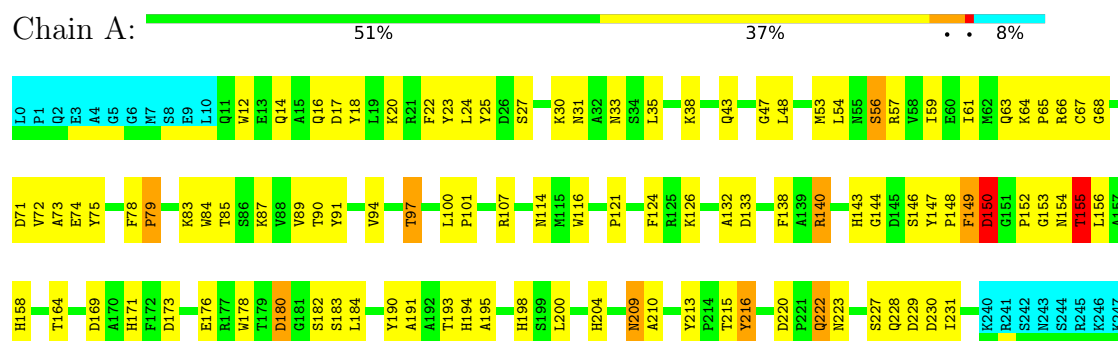
4.2.16 Score per residue for model 16

• Molecule 1: Matrilysin



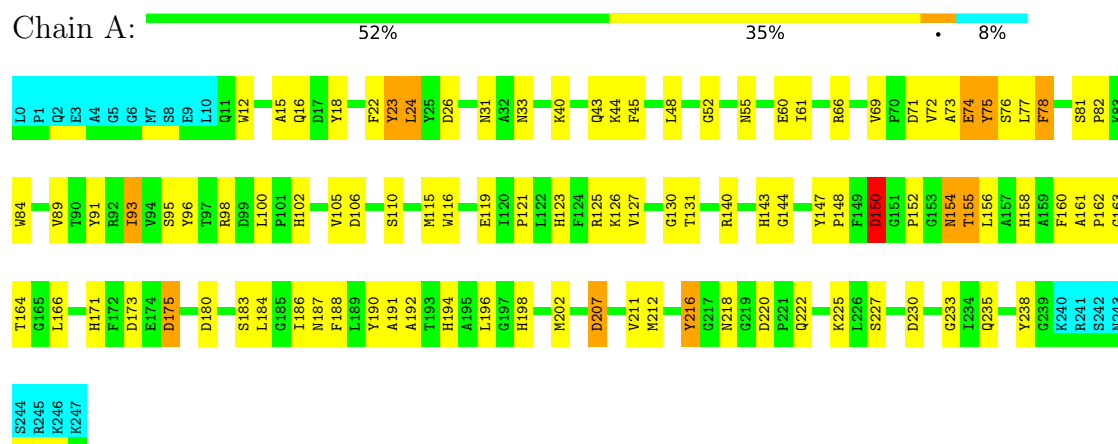
4.2.17 Score per residue for model 17

• Molecule 1: Matrilysin



4.2.18 Score per residue for model 18

• Molecule 1: Matrilysin



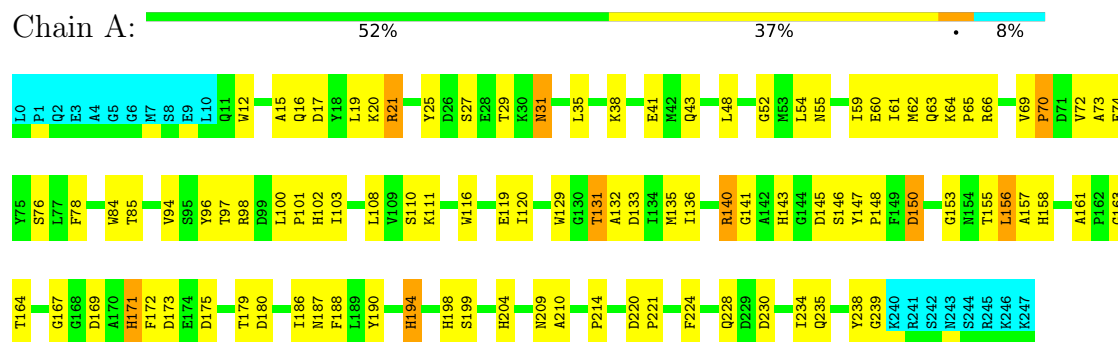
4.2.19 Score per residue for model 19

• Molecule 1: Matrilysin



4.2.20 Score per residue for model 20

● Molecule 1: Matrilysin



5 Refinement protocol and experimental data overview

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

Of the 10000 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations*.

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

Software name	Classification	Version
HADDOCK	structure solution	2.1
GROMOS	refinement	4.5.7

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	1503
Number of shifts mapped to atoms	1503
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	48%

6 Model quality

6.1 Standard geometry

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

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	0.56±0.00	0±0/1858 (0.0± 0.0%)	2.59±0.04	153±12/2520 (6.1± 0.5%)
All	All	0.56	0/37160 (0.0%)	2.59	3065/50400 (6.1%)

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	6.8±2.3
All	All	0	135

There are no bond-length outliers.

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
1	A	218	ASN	CA-C-N	14.11	132.47	121.61	4	5
1	A	218	ASN	C-N-CA	14.11	132.47	121.61	4	5
1	A	173	ASP	CA-CB-CG	13.07	125.67	112.60	11	9
1	A	158	HIS	ND1-CE1-NE2	12.60	121.00	108.40	16	10
1	A	45	PHE	CA-CB-CG	12.55	126.35	113.80	18	6
1	A	213	TYR	CA-C-N	11.93	131.73	119.56	10	5
1	A	213	TYR	C-N-CA	11.93	131.73	119.56	10	5
1	A	150	ASP	CA-CB-CG	11.65	124.25	112.60	4	7
1	A	171	HIS	ND1-CE1-NE2	11.63	120.03	108.40	16	9
1	A	228	GLN	OE1-CD-NE2	-11.57	111.03	122.60	4	4
1	A	102	HIS	CA-CB-CG	11.42	125.22	113.80	6	6
1	A	69	VAL	CA-C-N	11.35	134.03	119.84	3	9

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	69	VAL	C-N-CA	11.35	134.03	119.84	3	9
1	A	194	HIS	CE1-NE2-CD2	-11.29	97.71	109.00	10	15
1	A	220	ASP	CA-CB-CG	11.13	123.73	112.60	12	11
1	A	149	PHE	CA-CB-CG	11.00	124.80	113.80	16	8
1	A	147	TYR	CA-C-N	10.79	133.32	119.84	4	5
1	A	147	TYR	C-N-CA	10.79	133.32	119.84	4	5
1	A	158	HIS	CE1-NE2-CD2	-10.62	98.39	109.00	16	10
1	A	136	ILE	CA-C-N	10.53	129.72	121.61	1	3
1	A	136	ILE	C-N-CA	10.53	129.72	121.61	1	3
1	A	140	ARG	NE-CZ-NH2	-10.40	109.84	119.20	5	4
1	A	64	LYS	CA-C-O	-10.34	109.42	120.17	14	10
1	A	59	ILE	N-CA-C	-10.30	100.84	110.53	19	1
1	A	224	PHE	CA-CB-CG	10.27	124.07	113.80	3	3
1	A	138	PHE	CA-CB-CG	-10.24	103.56	113.80	17	3
1	A	172	PHE	CA-CB-CG	10.23	124.03	113.80	9	4
1	A	143	HIS	CE1-NE2-CD2	-10.13	98.87	109.00	11	12
1	A	120	ILE	CA-C-O	-10.11	112.62	119.19	20	3
1	A	78	PHE	CA-CB-CG	10.04	123.83	113.80	14	6
1	A	48	LEU	CA-C-N	10.02	129.77	118.85	17	5
1	A	48	LEU	C-N-CA	10.02	129.77	118.85	17	5
1	A	61	ILE	CA-C-N	10.00	133.69	120.28	18	3
1	A	61	ILE	C-N-CA	10.00	133.69	120.28	18	3
1	A	160	PHE	CA-CB-CG	9.87	123.67	113.80	14	7
1	A	222	GLN	OE1-CD-NE2	-9.78	112.82	122.60	6	2
1	A	162	PRO	CA-C-N	9.78	129.14	121.61	3	4
1	A	162	PRO	C-N-CA	9.78	129.14	121.61	3	4
1	A	154	ASN	OD1-CG-ND2	-9.78	112.82	122.60	4	2
1	A	123	HIS	CA-CB-CG	9.75	123.55	113.80	7	7
1	A	107	ARG	CA-C-N	9.66	134.01	120.29	6	3
1	A	107	ARG	C-N-CA	9.66	134.01	120.29	6	3
1	A	232	LYS	CA-C-N	9.66	130.70	119.98	4	2
1	A	232	LYS	C-N-CA	9.66	130.70	119.98	4	2
1	A	58	VAL	CA-C-N	9.61	132.86	120.56	19	4
1	A	58	VAL	C-N-CA	9.61	132.86	120.56	19	4
1	A	130	GLY	O-C-N	9.59	132.49	123.00	10	3
1	A	22	PHE	CA-CB-CG	9.55	123.35	113.80	2	12
1	A	198	HIS	CE1-NE2-CD2	-9.55	99.45	109.00	19	13
1	A	52	GLY	CA-C-O	9.52	127.72	118.77	18	1
1	A	188	PHE	CA-C-N	9.49	132.78	120.44	19	4
1	A	188	PHE	C-N-CA	9.49	132.78	120.44	19	4
1	A	229	ASP	N-CA-C	9.44	121.57	111.28	17	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	124	PHE	CA-CB-CG	-9.44	104.36	113.80	9	3
1	A	105	VAL	CA-C-N	9.41	133.27	120.38	13	12
1	A	105	VAL	C-N-CA	9.41	133.27	120.38	13	12
1	A	38	LYS	CA-C-N	9.40	133.85	120.79	19	5
1	A	38	LYS	C-N-CA	9.40	133.85	120.79	19	5
1	A	144	GLY	CA-C-N	9.36	137.00	122.11	14	6
1	A	144	GLY	C-N-CA	9.36	137.00	122.11	14	6
1	A	60	GLU	CA-C-N	9.36	133.28	120.46	18	5
1	A	60	GLU	C-N-CA	9.36	133.28	120.46	18	5
1	A	202	MET	CA-C-N	9.34	130.78	122.47	6	8
1	A	202	MET	C-N-CA	9.34	130.78	122.47	6	8
1	A	207	ASP	CA-CB-CG	9.33	121.93	112.60	12	6
1	A	126	LYS	CA-C-N	9.32	136.24	122.91	17	4
1	A	126	LYS	C-N-CA	9.32	136.24	122.91	17	4
1	A	209	ASN	CA-CB-CG	9.29	121.89	112.60	1	6
1	A	194	HIS	CA-CB-CG	9.26	123.06	113.80	5	11
1	A	204	HIS	CE1-NE2-CD2	-9.23	99.77	109.00	3	13
1	A	100	LEU	CA-C-N	9.21	129.15	119.85	5	6
1	A	100	LEU	C-N-CA	9.21	129.15	119.85	5	6
1	A	207	ASP	CB-CA-C	9.21	120.35	109.85	5	3
1	A	55	ASN	O-C-N	-9.21	113.47	123.04	14	2
1	A	154	ASN	CA-CB-CG	9.19	121.79	112.60	1	8
1	A	65	PRO	N-CA-CB	9.15	112.85	103.25	2	4
1	A	71	ASP	CA-C-N	9.13	137.10	122.68	1	10
1	A	71	ASP	C-N-CA	9.13	137.10	122.68	1	10
1	A	63	GLN	CA-C-N	9.12	133.06	120.39	20	8
1	A	63	GLN	C-N-CA	9.12	133.06	120.39	20	8
1	A	116	TRP	CA-C-N	9.11	131.53	120.14	17	3
1	A	116	TRP	C-N-CA	9.11	131.53	120.14	17	3
1	A	143	HIS	CA-CB-CG	9.11	122.91	113.80	9	7
1	A	187	ASN	CA-CB-CG	9.10	121.70	112.60	10	5
1	A	54	LEU	CA-C-N	9.08	137.92	121.85	19	1
1	A	54	LEU	C-N-CA	9.08	137.92	121.85	19	1
1	A	229	ASP	CA-C-N	9.05	132.74	120.44	7	3
1	A	229	ASP	C-N-CA	9.05	132.74	120.44	7	3
1	A	123	HIS	CE1-NE2-CD2	-9.04	99.96	109.00	5	9
1	A	83	LYS	O-C-N	-9.02	114.53	123.46	17	1
1	A	44	LYS	N-CA-C	9.01	122.28	111.82	8	1
1	A	111	LYS	CA-C-N	9.00	132.14	120.44	9	7
1	A	111	LYS	C-N-CA	9.00	132.14	120.44	9	7
1	A	221	PRO	CA-C-N	8.99	132.33	120.28	2	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	221	PRO	C-N-CA	8.99	132.33	120.28	2	7
1	A	73	ALA	CA-C-N	8.98	138.69	121.54	17	15
1	A	73	ALA	C-N-CA	8.98	138.69	121.54	17	15
1	A	175	ASP	CA-CB-CG	8.97	121.57	112.60	16	4
1	A	99	ASP	CA-CB-CG	8.96	121.56	112.60	13	4
1	A	17	ASP	CA-C-N	8.93	132.97	120.29	14	9
1	A	17	ASP	C-N-CA	8.93	132.97	120.29	14	9
1	A	37	ALA	CA-C-N	8.92	133.87	120.31	14	3
1	A	37	ALA	C-N-CA	8.92	133.87	120.31	14	3
1	A	216	TYR	CA-C-N	8.92	129.03	122.16	9	3
1	A	216	TYR	C-N-CA	8.92	129.03	122.16	9	3
1	A	201	GLY	CA-C-N	8.92	133.53	120.87	15	2
1	A	201	GLY	C-N-CA	8.92	133.53	120.87	15	2
1	A	158	HIS	CA-CB-CG	8.91	122.71	113.80	6	12
1	A	64	LYS	CA-C-N	8.90	130.97	119.84	7	11
1	A	64	LYS	C-N-CA	8.90	130.97	119.84	7	11
1	A	16	GLN	OE1-CD-NE2	-8.89	113.71	122.60	15	1
1	A	180	ASP	CA-CB-CG	8.88	121.48	112.60	11	5
1	A	154	ASN	CA-C-N	8.88	138.50	121.54	9	9
1	A	154	ASN	C-N-CA	8.88	138.50	121.54	9	9
1	A	238	TYR	CA-C-N	8.88	129.22	121.58	14	3
1	A	238	TYR	C-N-CA	8.88	129.22	121.58	14	3
1	A	35	LEU	CA-C-N	8.87	131.98	120.44	20	8
1	A	35	LEU	C-N-CA	8.87	131.98	120.44	20	8
1	A	133	ASP	CA-C-N	8.87	133.57	122.48	14	4
1	A	133	ASP	C-N-CA	8.87	133.57	122.48	14	4
1	A	231	ILE	CA-C-N	8.86	133.31	120.38	17	4
1	A	231	ILE	C-N-CA	8.86	133.31	120.38	17	4
1	A	198	HIS	ND1-CE1-NE2	8.83	117.23	108.40	19	4
1	A	36	GLU	N-CA-C	8.83	120.90	111.28	14	2
1	A	171	HIS	CA-CB-CG	8.79	122.59	113.80	20	8
1	A	55	ASN	CA-C-N	8.77	133.65	120.31	14	5
1	A	55	ASN	C-N-CA	8.77	133.65	120.31	14	5
1	A	182	SER	CA-C-N	8.77	137.44	123.93	2	6
1	A	182	SER	C-N-CA	8.77	137.44	123.93	2	6
1	A	69	VAL	O-C-N	8.77	127.21	121.69	14	3
1	A	72	VAL	CA-C-O	-8.75	114.80	120.66	19	2
1	A	43	GLN	CA-C-N	8.74	131.80	120.44	7	6
1	A	43	GLN	C-N-CA	8.74	131.80	120.44	7	6
1	A	26	ASP	CA-C-N	8.73	132.34	120.38	6	4
1	A	26	ASP	C-N-CA	8.73	132.34	120.38	6	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	194	HIS	CG-CD2-NE2	8.70	115.90	107.20	10	3
1	A	128	VAL	CB-CA-C	8.69	118.80	110.63	1	8
1	A	143	HIS	ND1-CE1-NE2	8.69	117.09	108.40	11	9
1	A	79	PRO	N-CA-CB	8.66	112.35	103.25	13	2
1	A	81	SER	O-C-N	-8.65	113.14	121.18	14	1
1	A	161	ALA	CA-C-N	8.64	130.63	119.84	12	7
1	A	161	ALA	C-N-CA	8.64	130.63	119.84	12	7
1	A	214	PRO	N-CA-CB	8.62	112.10	103.48	10	3
1	A	155	THR	CA-CB-CG2	8.62	125.16	110.50	17	5
1	A	194	HIS	ND1-CE1-NE2	8.60	117.00	108.40	10	8
1	A	172	PHE	CA-C-N	8.59	133.61	121.24	12	4
1	A	172	PHE	C-N-CA	8.59	133.61	121.24	12	4
1	A	207	ASP	CA-C-N	8.58	128.80	119.87	11	4
1	A	207	ASP	C-N-CA	8.58	128.80	119.87	11	4
1	A	102	HIS	CA-C-N	8.57	134.68	120.62	15	4
1	A	102	HIS	C-N-CA	8.57	134.68	120.62	15	4
1	A	213	TYR	N-CA-CB	-8.56	99.67	110.03	19	2
1	A	166	LEU	CA-C-N	8.54	130.07	122.47	15	6
1	A	166	LEU	C-N-CA	8.54	130.07	122.47	15	6
1	A	223	ASN	OD1-CG-ND2	-8.53	114.07	122.60	3	4
1	A	110	SER	CA-C-N	8.52	132.05	120.38	8	6
1	A	110	SER	C-N-CA	8.52	132.05	120.38	8	6
1	A	101	PRO	CA-C-N	8.52	133.60	120.82	7	9
1	A	101	PRO	C-N-CA	8.52	133.60	120.82	7	9
1	A	100	LEU	CA-C-O	-8.52	111.89	120.66	17	3
1	A	132	ALA	CA-C-N	8.50	132.61	120.79	13	4
1	A	132	ALA	C-N-CA	8.50	132.61	120.79	13	4
1	A	177	ARG	NE-CZ-NH2	-8.45	111.59	119.20	13	2
1	A	106	ASP	CA-CB-CG	8.44	121.04	112.60	8	5
1	A	131	THR	CA-C-N	8.44	136.40	122.73	16	3
1	A	131	THR	C-N-CA	8.44	136.40	122.73	16	3
1	A	26	ASP	CA-CB-CG	8.41	121.02	112.60	14	5
1	A	223	ASN	CA-C-N	8.40	133.07	121.05	11	4
1	A	223	ASN	C-N-CA	8.40	133.07	121.05	11	4
1	A	215	THR	CA-C-N	8.39	134.30	122.72	11	7
1	A	215	THR	C-N-CA	8.39	134.30	122.72	11	7
1	A	104	THR	CA-C-N	8.39	130.96	120.72	3	3
1	A	104	THR	C-N-CA	8.39	130.96	120.72	3	3
1	A	85	THR	CA-C-O	8.36	129.61	119.49	14	2
1	A	140	ARG	CD-NE-CZ	8.35	136.09	124.40	1	5
1	A	127	VAL	CA-C-N	8.35	131.53	122.77	18	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	127	VAL	C-N-CA	8.35	131.53	122.77	18	3
1	A	44	LYS	CA-C-N	8.35	132.14	120.29	7	5
1	A	44	LYS	C-N-CA	8.35	132.14	120.29	7	5
1	A	198	HIS	O-C-N	8.34	131.10	122.09	3	3
1	A	81	SER	CA-C-N	8.34	128.48	120.31	14	2
1	A	81	SER	C-N-CA	8.34	128.48	120.31	14	2
1	A	187	ASN	CA-C-N	8.31	131.25	120.44	16	7
1	A	187	ASN	C-N-CA	8.31	131.25	120.44	16	7
1	A	29	THR	CA-CB-CG2	8.31	124.62	110.50	3	5
1	A	188	PHE	CA-CB-CG	8.28	122.08	113.80	15	5
1	A	34	SER	CA-C-N	8.28	131.70	120.44	11	8
1	A	34	SER	C-N-CA	8.28	131.70	120.44	11	8
1	A	33	ASN	CA-CB-CG	8.26	120.86	112.60	10	6
1	A	25	TYR	CA-C-O	-8.24	111.76	120.99	6	1
1	A	14	GLN	N-CA-CB	-8.21	97.01	110.40	5	1
1	A	164	THR	CA-C-N	8.18	137.45	121.41	18	2
1	A	164	THR	C-N-CA	8.18	137.45	121.41	18	2
1	A	71	ASP	CA-CB-CG	8.15	120.75	112.60	4	8
1	A	45	PHE	CA-C-O	-8.09	112.36	120.70	15	1
1	A	98	ARG	NE-CZ-NH2	-8.09	111.92	119.20	18	1
1	A	155	THR	CA-C-N	8.07	134.33	121.98	14	1
1	A	155	THR	C-N-CA	8.07	134.33	121.98	14	1
1	A	97	THR	O-C-N	-8.07	113.49	123.01	15	3
1	A	123	HIS	ND1-CE1-NE2	8.04	116.44	108.40	13	7
1	A	128	VAL	CA-C-O	-8.02	111.76	118.98	2	2
1	A	230	ASP	CA-CB-CG	8.01	120.61	112.60	19	3
1	A	219	GLY	O-C-N	-8.01	116.62	123.59	16	2
1	A	69	VAL	N-CA-CB	-8.00	106.31	111.83	11	3
1	A	20	LYS	CA-C-N	7.96	131.75	120.28	15	7
1	A	20	LYS	C-N-CA	7.96	131.75	120.28	15	7
1	A	103	ILE	CA-C-N	7.96	130.94	120.28	10	4
1	A	103	ILE	C-N-CA	7.96	130.94	120.28	10	4
1	A	29	THR	N-CA-C	-7.96	104.54	112.97	16	3
1	A	231	ILE	CA-CB-CG2	7.95	124.02	110.50	8	2
1	A	190	TYR	N-CA-CB	-7.94	98.45	110.12	7	2
1	A	113	LEU	CA-C-N	7.93	133.96	120.72	11	4
1	A	113	LEU	C-N-CA	7.93	133.96	120.72	11	4
1	A	67	CYS	O-C-N	-7.92	114.19	123.06	13	2
1	A	114	ASN	CA-C-O	-7.92	112.43	120.90	12	3
1	A	72	VAL	O-C-N	-7.91	114.17	122.95	20	6
1	A	14	GLN	OE1-CD-NE2	-7.89	114.71	122.60	7	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	236	LYS	CA-C-N	7.89	131.17	120.44	6	1
1	A	236	LYS	C-N-CA	7.89	131.17	120.44	6	1
1	A	155	THR	CB-CA-C	7.87	126.08	110.42	5	5
1	A	19	LEU	N-CA-C	7.87	119.94	111.36	13	1
1	A	156	LEU	N-CA-C	7.86	124.65	114.75	5	1
1	A	222	GLN	CB-CG-CD	7.85	125.94	112.60	17	1
1	A	187	ASN	OD1-CG-ND2	-7.84	114.76	122.60	9	5
1	A	85	THR	CA-C-N	7.82	135.27	121.75	5	7
1	A	85	THR	C-N-CA	7.82	135.27	121.75	5	7
1	A	148	PRO	N-CA-CB	7.81	110.26	103.31	3	4
1	A	18	TYR	CA-CB-CG	7.80	127.93	113.90	19	2
1	A	43	GLN	O-C-N	7.78	130.08	122.07	15	1
1	A	204	HIS	ND1-CE1-NE2	7.75	116.16	108.40	3	9
1	A	72	VAL	CA-CB-CG1	7.75	123.58	110.40	19	1
1	A	180	ASP	CB-CA-C	7.74	124.58	110.88	4	2
1	A	96	TYR	CA-C-N	7.72	131.83	120.87	13	8
1	A	96	TYR	C-N-CA	7.72	131.83	120.87	13	8
1	A	127	VAL	CA-CB-CG1	7.71	123.51	110.40	2	2
1	A	94	VAL	CA-CB-CG2	7.70	123.48	110.40	20	1
1	A	110	SER	N-CA-C	7.69	119.30	111.07	5	1
1	A	121	PRO	CA-C-N	7.69	131.66	120.82	1	2
1	A	121	PRO	C-N-CA	7.69	131.66	120.82	1	2
1	A	218	ASN	CA-C-O	7.68	127.35	118.90	15	1
1	A	78	PHE	CA-C-O	-7.67	112.40	120.23	19	4
1	A	114	ASN	CA-C-N	7.67	131.17	120.29	15	1
1	A	114	ASN	C-N-CA	7.67	131.17	120.29	15	1
1	A	53	MET	CA-C-O	7.66	129.31	120.80	2	2
1	A	100	LEU	CB-CA-C	7.66	120.74	108.87	18	2
1	A	234	ILE	CA-CB-CG1	7.65	123.41	110.40	3	1
1	A	41	GLU	CA-C-N	7.64	130.38	120.44	20	5
1	A	41	GLU	C-N-CA	7.64	130.38	120.44	20	5
1	A	171	HIS	ND1-CG-CD2	7.64	113.74	106.10	16	4
1	A	41	GLU	O-C-N	-7.64	113.84	122.09	12	1
1	A	221	PRO	O-C-N	-7.64	114.40	123.03	20	1
1	A	78	PHE	CA-C-N	7.63	129.38	119.84	13	5
1	A	78	PHE	C-N-CA	7.63	129.38	119.84	13	5
1	A	75	TYR	CA-C-N	7.62	136.10	121.54	19	13
1	A	75	TYR	C-N-CA	7.62	136.10	121.54	19	13
1	A	154	ASN	CA-C-O	7.62	129.27	120.96	4	1
1	A	198	HIS	CA-CB-CG	7.62	121.42	113.80	15	4
1	A	120	ILE	CA-C-N	7.59	129.33	119.84	1	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	120	ILE	C-N-CA	7.59	129.33	119.84	1	2
1	A	74	GLU	CA-C-N	7.59	133.56	122.63	3	6
1	A	74	GLU	C-N-CA	7.59	133.56	122.63	3	6
1	A	230	ASP	CA-C-N	7.59	132.75	120.30	5	6
1	A	230	ASP	C-N-CA	7.59	132.75	120.30	5	6
1	A	119	GLU	CA-C-N	7.58	131.77	123.43	3	5
1	A	119	GLU	C-N-CA	7.58	131.77	123.43	3	5
1	A	149	PHE	N-CA-C	7.58	119.54	111.28	4	5
1	A	59	ILE	CA-C-N	7.58	132.18	120.82	13	8
1	A	59	ILE	C-N-CA	7.58	132.18	120.82	13	8
1	A	238	TYR	CA-C-O	-7.56	110.48	119.03	3	1
1	A	206	SER	CB-CA-C	7.56	125.18	110.67	12	1
1	A	70	PRO	CA-C-N	7.55	136.07	122.62	12	4
1	A	70	PRO	C-N-CA	7.55	136.07	122.62	12	4
1	A	179	THR	CA-CB-OG1	7.55	120.92	109.60	14	1
1	A	188	PHE	N-CA-C	7.53	119.57	111.36	8	2
1	A	198	HIS	CA-C-N	7.53	132.65	120.60	18	8
1	A	198	HIS	C-N-CA	7.53	132.65	120.60	18	8
1	A	163	GLY	O-C-N	7.53	128.99	123.27	10	4
1	A	87	LYS	CA-C-N	7.53	133.67	122.98	17	5
1	A	87	LYS	C-N-CA	7.53	133.67	122.98	17	5
1	A	13	GLU	CA-C-N	7.53	133.47	120.68	9	3
1	A	13	GLU	C-N-CA	7.53	133.47	120.68	9	3
1	A	223	ASN	CA-CB-CG	-7.52	105.08	112.60	19	3
1	A	150	ASP	CA-C-N	7.52	133.67	121.87	1	4
1	A	150	ASP	C-N-CA	7.52	133.67	121.87	1	4
1	A	40	LYS	O-C-N	-7.50	114.17	122.12	12	2
1	A	97	THR	CA-C-O	-7.47	112.79	121.16	17	1
1	A	160	PHE	O-C-N	-7.47	114.45	123.19	11	2
1	A	196	LEU	CA-C-N	7.46	129.46	120.14	1	3
1	A	196	LEU	C-N-CA	7.46	129.46	120.14	1	3
1	A	190	TYR	CA-C-O	-7.45	113.02	120.70	6	3
1	A	145	ASP	CA-CB-CG	7.45	120.05	112.60	20	7
1	A	31	ASN	CA-CB-CG	7.45	120.05	112.60	16	4
1	A	102	HIS	ND1-CE1-NE2	7.45	115.85	108.40	6	7
1	A	18	TYR	CA-C-N	7.43	130.99	120.28	10	8
1	A	18	TYR	C-N-CA	7.43	130.99	120.28	10	8
1	A	49	PRO	CA-C-N	7.42	131.65	122.37	9	5
1	A	49	PRO	C-N-CA	7.42	131.65	122.37	9	5
1	A	37	ALA	CA-C-O	-7.39	113.08	120.70	19	2
1	A	186	ILE	N-CA-C	-7.39	97.94	108.58	19	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	73	ALA	O-C-N	7.37	132.72	122.77	16	2
1	A	234	ILE	CA-C-N	7.37	131.03	120.79	11	6
1	A	234	ILE	C-N-CA	7.37	131.03	120.79	11	6
1	A	59	ILE	CA-C-O	-7.36	112.84	120.71	10	2
1	A	149	PHE	O-C-N	7.36	129.65	122.07	16	3
1	A	105	VAL	N-CA-C	-7.34	103.63	110.53	14	1
1	A	125	ARG	NE-CZ-NH1	-7.33	114.17	121.50	13	2
1	A	31	ASN	N-CA-CB	7.31	122.84	110.49	14	2
1	A	116	TRP	N-CA-C	-7.30	103.26	111.14	3	4
1	A	220	ASP	CA-C-N	7.29	127.25	120.03	4	3
1	A	220	ASP	C-N-CA	7.29	127.25	120.03	4	3
1	A	171	HIS	CB-CG-CD2	-7.28	121.73	131.20	16	2
1	A	119	GLU	CB-CG-CD	7.28	124.98	112.60	18	1
1	A	79	PRO	CA-C-N	7.28	135.44	121.54	4	4
1	A	79	PRO	C-N-CA	7.28	135.44	121.54	4	4
1	A	22	PHE	CA-C-N	7.27	134.87	122.36	12	3
1	A	22	PHE	C-N-CA	7.27	134.87	122.36	12	3
1	A	178	TRP	N-CA-CB	-7.27	98.80	110.51	4	2
1	A	79	PRO	CB-CA-C	7.26	118.01	111.40	16	1
1	A	150	ASP	CB-CA-C	7.26	124.87	110.42	14	7
1	A	65	PRO	CA-N-CD	-7.26	101.83	112.00	7	1
1	A	32	ALA	CA-C-N	7.26	130.01	120.28	1	5
1	A	32	ALA	C-N-CA	7.26	130.01	120.28	1	5
1	A	156	LEU	N-CA-CB	7.25	120.65	111.00	18	2
1	A	204	HIS	CA-CB-CG	7.25	121.05	113.80	16	4
1	A	99	ASP	N-CA-CB	-7.24	99.57	110.07	7	2
1	A	55	ASN	CA-C-O	-7.24	113.48	121.23	2	1
1	A	66	ARG	CA-C-N	7.23	131.07	120.95	9	1
1	A	66	ARG	C-N-CA	7.23	131.07	120.95	9	1
1	A	162	PRO	N-CA-C	7.22	123.03	111.26	14	2
1	A	117	GLY	N-CA-C	7.19	123.58	114.66	13	2
1	A	29	THR	O-C-N	-7.19	113.35	122.34	14	2
1	A	23	TYR	CA-C-N	7.19	135.27	121.54	5	6
1	A	23	TYR	C-N-CA	7.19	135.27	121.54	5	6
1	A	154	ASN	N-CA-C	7.19	120.91	110.42	6	3
1	A	30	LYS	CA-C-N	7.18	135.26	121.54	2	6
1	A	30	LYS	C-N-CA	7.18	135.26	121.54	2	6
1	A	179	THR	CA-C-O	-7.18	113.77	121.38	10	2
1	A	198	HIS	N-CA-C	-7.17	103.19	112.23	17	3
1	A	33	ASN	CA-C-N	7.17	130.22	120.54	9	4
1	A	33	ASN	C-N-CA	7.17	130.22	120.54	9	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	148	PRO	CA-C-N	7.17	130.22	120.54	7	6
1	A	148	PRO	C-N-CA	7.17	130.22	120.54	7	6
1	A	216	TYR	N-CA-C	7.17	119.56	110.24	6	1
1	A	192	ALA	CA-C-N	7.16	130.19	120.38	6	5
1	A	192	ALA	C-N-CA	7.16	130.19	120.38	6	5
1	A	51	THR	CA-CB-OG1	7.16	120.34	109.60	13	3
1	A	171	HIS	CG-ND1-CE1	-7.16	97.14	109.30	16	2
1	A	15	ALA	CA-C-N	7.15	131.18	120.31	5	4
1	A	15	ALA	C-N-CA	7.15	131.18	120.31	5	4
1	A	210	ALA	N-CA-C	7.15	119.80	110.43	15	1
1	A	102	HIS	N-CA-C	7.15	119.98	111.33	10	1
1	A	159	ALA	O-C-N	7.14	131.76	123.41	3	2
1	A	21	ARG	NE-CZ-NH2	7.14	125.62	119.20	13	3
1	A	140	ARG	CA-C-O	7.14	128.28	120.71	5	2
1	A	169	ASP	CA-CB-CG	-7.13	105.47	112.60	13	2
1	A	133	ASP	CA-C-O	-7.13	113.36	120.70	10	2
1	A	199	SER	CA-C-N	7.12	134.24	121.92	20	1
1	A	199	SER	C-N-CA	7.12	134.24	121.92	20	1
1	A	125	ARG	NE-CZ-NH2	-7.11	112.80	119.20	12	2
1	A	173	ASP	CA-C-O	7.11	128.31	120.92	18	1
1	A	57	ARG	N-CA-C	-7.11	102.95	111.69	7	3
1	A	102	HIS	CE1-NE2-CD2	-7.10	101.90	109.00	6	2
1	A	34	SER	CA-C-O	7.09	128.06	120.55	11	4
1	A	218	ASN	CA-CB-CG	7.09	119.69	112.60	6	5
1	A	26	ASP	CB-CA-C	7.07	121.02	110.14	2	1
1	A	119	GLU	CA-C-O	-7.07	112.39	120.24	5	2
1	A	239	GLY	CA-C-N	7.06	133.68	122.59	16	3
1	A	239	GLY	C-N-CA	7.06	133.68	122.59	16	3
1	A	96	TYR	CA-C-O	-7.05	113.61	121.51	18	4
1	A	171	HIS	CB-CA-C	7.04	121.86	110.16	16	1
1	A	27	SER	CA-C-N	7.04	131.01	120.31	9	2
1	A	27	SER	C-N-CA	7.04	131.01	120.31	9	2
1	A	11	GLN	CA-C-N	7.04	130.29	120.29	9	2
1	A	11	GLN	C-N-CA	7.04	130.29	120.29	9	2
1	A	213	TYR	CA-C-O	-7.04	112.65	120.25	17	4
1	A	169	ASP	CA-C-N	7.04	133.50	122.94	20	1
1	A	169	ASP	C-N-CA	7.04	133.50	122.94	20	1
1	A	115	MET	O-C-N	7.03	130.17	122.15	15	1
1	A	191	ALA	CA-C-N	7.03	130.01	120.38	1	10
1	A	191	ALA	C-N-CA	7.03	130.01	120.38	1	10
1	A	132	ALA	CA-C-O	-7.02	112.91	121.06	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	106	ASP	N-CA-C	7.02	118.93	111.28	7	4
1	A	124	PHE	O-C-N	-7.02	114.98	123.27	15	1
1	A	140	ARG	NE-CZ-NH1	7.02	128.52	121.50	17	5
1	A	64	LYS	O-C-N	7.01	127.54	121.30	17	1
1	A	76	SER	CA-C-N	7.01	133.87	121.75	19	1
1	A	76	SER	C-N-CA	7.01	133.87	121.75	19	1
1	A	143	HIS	CG-CD2-NE2	7.01	114.21	107.20	17	6
1	A	57	ARG	CA-C-N	7.00	132.26	120.64	7	3
1	A	57	ARG	C-N-CA	7.00	132.26	120.64	7	3
1	A	99	ASP	CA-C-O	7.00	127.91	120.70	6	1
1	A	201	GLY	CA-C-O	7.00	125.95	118.95	6	3
1	A	133	ASP	CA-CB-CG	7.00	119.59	112.60	3	2
1	A	38	LYS	O-C-N	-6.99	114.18	122.15	13	2
1	A	12	TRP	CB-CG-CD2	6.99	136.58	126.80	2	1
1	A	11	GLN	OE1-CD-NE2	6.98	129.58	122.60	19	1
1	A	145	ASP	CA-C-N	6.98	130.62	120.71	4	2
1	A	145	ASP	C-N-CA	6.98	130.62	120.71	4	2
1	A	70	PRO	N-CA-CB	6.98	110.58	103.25	14	6
1	A	20	LYS	N-CA-CB	-6.98	99.86	110.12	12	2
1	A	235	GLN	OE1-CD-NE2	-6.97	115.63	122.60	12	2
1	A	35	LEU	N-CA-C	6.97	119.47	111.11	3	2
1	A	112	ALA	N-CA-C	-6.97	103.29	111.03	15	2
1	A	156	LEU	CB-CA-C	6.95	121.71	109.75	20	6
1	A	125	ARG	CA-C-N	6.94	131.42	121.50	6	3
1	A	125	ARG	C-N-CA	6.94	131.42	121.50	6	3
1	A	61	ILE	CA-C-O	-6.94	111.65	119.42	17	2
1	A	115	MET	CA-C-N	6.93	133.27	121.14	16	2
1	A	115	MET	C-N-CA	6.93	133.27	121.14	16	2
1	A	71	ASP	OD1-CG-OD2	-6.93	106.27	122.90	19	12
1	A	171	HIS	CE1-NE2-CD2	-6.93	102.07	109.00	1	4
1	A	198	HIS	CG-CD2-NE2	6.93	114.13	107.20	3	7
1	A	83	LYS	N-CA-C	6.93	119.60	109.07	8	1
1	A	116	TRP	CZ3-CH2-CZ2	-6.92	112.50	121.50	19	1
1	A	234	ILE	O-C-N	6.90	128.94	121.83	12	1
1	A	152	PRO	N-CA-CB	6.89	108.81	103.30	12	5
1	A	158	HIS	CG-CD2-NE2	6.89	114.09	107.20	20	4
1	A	75	TYR	CB-CG-CD2	-6.88	110.47	120.80	4	1
1	A	69	VAL	CB-CA-C	6.88	123.89	111.36	10	3
1	A	186	ILE	N-CA-CB	6.88	118.22	110.72	19	2
1	A	86	SER	CA-C-N	6.87	134.78	121.18	4	1
1	A	86	SER	C-N-CA	6.87	134.78	121.18	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	228	GLN	CA-C-N	6.85	129.35	120.44	12	5
1	A	228	GLN	C-N-CA	6.85	129.35	120.44	12	5
1	A	121	PRO	N-CA-CB	6.84	110.43	103.25	4	3
1	A	173	ASP	N-CA-C	6.84	118.99	109.15	11	1
1	A	38	LYS	CA-C-O	-6.83	113.24	120.55	5	2
1	A	129	TRP	CA-C-N	6.83	134.24	122.62	12	2
1	A	129	TRP	C-N-CA	6.83	134.24	122.62	12	2
1	A	50	ILE	CA-CB-CG1	6.83	122.00	110.40	13	1
1	A	18	TYR	N-CA-C	6.82	118.71	111.28	18	2
1	A	19	LEU	CA-C-N	6.82	129.30	120.44	4	3
1	A	19	LEU	C-N-CA	6.82	129.30	120.44	4	3
1	A	29	THR	CA-C-N	6.81	131.23	121.50	6	2
1	A	29	THR	C-N-CA	6.81	131.23	121.50	6	2
1	A	17	ASP	CA-CB-CG	6.80	119.40	112.60	5	4
1	A	190	TYR	CA-C-N	6.80	129.69	120.44	8	4
1	A	190	TYR	C-N-CA	6.80	129.69	120.44	8	4
1	A	82	PRO	CA-C-N	6.80	134.06	121.62	6	4
1	A	82	PRO	C-N-CA	6.80	134.06	121.62	6	4
1	A	166	LEU	N-CA-C	6.79	121.28	113.19	11	1
1	A	95	SER	CA-C-N	6.79	134.23	122.82	19	5
1	A	95	SER	C-N-CA	6.79	134.23	122.82	19	5
1	A	70	PRO	N-CD-CG	6.79	113.38	103.20	19	1
1	A	204	HIS	O-C-N	-6.79	115.46	123.06	3	1
1	A	58	VAL	O-C-N	-6.78	113.16	122.05	7	1
1	A	161	ALA	N-CA-CB	-6.78	100.73	109.55	20	4
1	A	60	GLU	N-CA-C	6.78	118.67	111.28	7	4
1	A	18	TYR	CB-CG-CD2	-6.78	110.63	120.80	7	1
1	A	84	TRP	CA-C-N	6.77	129.91	120.29	15	4
1	A	84	TRP	C-N-CA	6.77	129.91	120.29	15	4
1	A	61	ILE	N-CA-C	6.77	121.63	111.89	3	4
1	A	202	MET	CA-C-O	-6.76	113.70	121.47	5	1
1	A	93	ILE	CB-CA-C	6.75	119.13	110.96	13	3
1	A	52	GLY	CA-C-N	6.75	132.50	122.99	20	4
1	A	52	GLY	C-N-CA	6.75	132.50	122.99	20	4
1	A	211	VAL	N-CA-C	6.75	117.25	110.23	8	3
1	A	220	ASP	N-CA-CB	-6.74	100.94	110.04	3	2
1	A	17	ASP	CA-C-O	-6.73	111.85	119.79	13	3
1	A	16	GLN	CA-C-N	6.73	129.30	120.28	3	2
1	A	16	GLN	C-N-CA	6.73	129.30	120.28	3	2
1	A	105	VAL	N-CA-CB	6.73	118.72	110.64	15	1
1	A	40	LYS	CA-C-O	-6.72	112.24	119.97	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	153	GLY	CA-C-N	6.72	134.37	121.54	15	5
1	A	153	GLY	C-N-CA	6.72	134.37	121.54	15	5
1	A	66	ARG	CD-NE-CZ	6.71	133.80	124.40	5	5
1	A	129	TRP	CE2-CD2-CE3	-6.71	112.09	118.80	1	2
1	A	161	ALA	CA-C-O	-6.71	113.49	120.87	12	3
1	A	140	ARG	CA-C-N	6.71	134.56	121.41	20	6
1	A	140	ARG	C-N-CA	6.71	134.56	121.41	20	6
1	A	51	THR	CB-CA-C	6.70	121.49	111.17	14	2
1	A	234	ILE	CA-C-O	-6.70	113.75	120.85	12	1
1	A	171	HIS	CA-C-N	6.69	133.63	122.87	10	1
1	A	171	HIS	C-N-CA	6.69	133.63	122.87	10	1
1	A	116	TRP	NE1-CE2-CD2	-6.68	98.71	107.40	5	3
1	A	145	ASP	N-CA-C	-6.68	99.52	108.74	20	1
1	A	98	ARG	CD-NE-CZ	6.68	133.75	124.40	2	1
1	A	88	VAL	N-CA-C	-6.68	98.76	108.71	14	1
1	A	53	MET	CA-C-N	6.67	130.29	120.95	16	3
1	A	53	MET	C-N-CA	6.67	130.29	120.95	16	3
1	A	236	LYS	CG-CD-CE	6.67	126.64	111.30	5	1
1	A	235	GLN	CB-CG-CD	-6.67	101.26	112.60	20	2
1	A	135	MET	CA-C-N	6.67	131.79	123.12	14	3
1	A	135	MET	C-N-CA	6.67	131.79	123.12	14	3
1	A	48	LEU	CA-C-O	-6.66	113.14	119.80	20	5
1	A	14	GLN	CA-C-N	6.65	129.48	120.44	4	1
1	A	14	GLN	C-N-CA	6.65	129.48	120.44	4	1
1	A	77	LEU	CA-C-N	6.65	130.15	120.51	11	3
1	A	77	LEU	C-N-CA	6.65	130.15	120.51	11	3
1	A	92	ARG	NE-CZ-NH2	6.64	125.18	119.20	3	1
1	A	103	ILE	N-CA-C	6.63	118.18	110.62	7	3
1	A	234	ILE	CA-CB-CG2	6.63	121.77	110.50	16	1
1	A	118	LYS	N-CA-C	-6.62	104.22	112.90	7	2
1	A	183	SER	CB-CA-C	6.61	120.03	110.04	9	6
1	A	212	MET	CA-C-N	6.61	129.57	120.39	12	2
1	A	212	MET	C-N-CA	6.61	129.57	120.39	12	2
1	A	33	ASN	OD1-CG-ND2	-6.60	116.00	122.60	8	3
1	A	222	GLN	CA-C-N	6.60	134.14	121.54	5	2
1	A	222	GLN	C-N-CA	6.60	134.14	121.54	5	2
1	A	55	ASN	CA-CB-CG	6.60	119.20	112.60	18	2
1	A	68	GLY	CA-C-N	6.60	130.99	121.68	14	2
1	A	68	GLY	C-N-CA	6.60	130.99	121.68	14	2
1	A	103	ILE	CB-CA-C	6.59	121.04	112.14	4	3
1	A	133	ASP	N-CA-CB	6.59	119.92	110.16	17	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	56	SER	CA-C-N	6.58	129.76	120.28	4	7
1	A	56	SER	C-N-CA	6.58	129.76	120.28	4	7
1	A	69	VAL	CA-CB-CG2	6.58	121.59	110.40	20	4
1	A	210	ALA	CA-C-N	6.58	131.09	120.30	2	4
1	A	210	ALA	C-N-CA	6.58	131.09	120.30	2	4
1	A	125	ARG	O-C-N	-6.58	115.33	123.36	12	1
1	A	54	LEU	N-CA-C	-6.58	98.54	109.46	20	1
1	A	87	LYS	CB-CG-CD	6.57	126.42	111.30	15	1
1	A	190	TYR	O-C-N	6.57	129.11	122.08	1	1
1	A	162	PRO	N-CA-CB	6.57	109.02	103.17	18	3
1	A	198	HIS	CA-C-O	-6.56	113.54	120.63	11	1
1	A	93	ILE	CA-C-N	6.56	131.05	120.30	1	4
1	A	93	ILE	C-N-CA	6.56	131.05	120.30	1	4
1	A	208	PRO	N-CA-CB	6.55	109.74	103.19	12	3
1	A	167	GLY	CA-C-N	6.55	132.03	122.46	5	2
1	A	167	GLY	C-N-CA	6.55	132.03	122.46	5	2
1	A	229	ASP	CA-CB-CG	6.55	119.15	112.60	3	3
1	A	218	ASN	CB-CA-C	6.55	120.35	109.80	6	3
1	A	102	HIS	CB-CG-CD2	-6.54	122.70	131.20	20	3
1	A	60	GLU	CA-C-O	-6.54	113.62	120.55	8	2
1	A	214	PRO	N-CA-C	6.52	125.91	112.47	4	6
1	A	31	ASN	CA-C-N	6.52	129.01	120.28	6	5
1	A	31	ASN	C-N-CA	6.52	129.01	120.28	6	5
1	A	98	ARG	CA-C-N	6.51	129.53	120.29	11	1
1	A	98	ARG	C-N-CA	6.51	129.53	120.29	11	1
1	A	50	ILE	CA-C-N	6.51	133.01	123.12	2	2
1	A	50	ILE	C-N-CA	6.51	133.01	123.12	2	2
1	A	224	PHE	CA-C-N	6.51	132.81	122.59	6	6
1	A	224	PHE	C-N-CA	6.51	132.81	122.59	6	6
1	A	61	ILE	O-C-N	-6.50	115.44	121.94	7	1
1	A	207	ASP	CA-C-O	-6.50	112.04	119.32	5	5
1	A	25	TYR	CA-C-N	6.50	132.22	122.47	20	1
1	A	25	TYR	C-N-CA	6.50	132.22	122.47	20	1
1	A	85	THR	N-CA-C	6.50	120.30	112.38	14	2
1	A	11	GLN	CA-C-O	-6.48	111.65	119.49	5	1
1	A	94	VAL	CA-C-N	6.47	133.47	121.62	4	3
1	A	94	VAL	C-N-CA	6.47	133.47	121.62	4	3
1	A	89	VAL	O-C-N	-6.47	116.24	123.03	11	2
1	A	228	GLN	CG-CD-NE2	6.46	126.09	116.40	17	2
1	A	195	ALA	CA-C-N	6.45	129.46	120.29	1	2
1	A	195	ALA	C-N-CA	6.45	129.46	120.29	1	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	107	ARG	NE-CZ-NH1	6.45	127.95	121.50	17	2
1	A	200	LEU	N-CA-C	-6.45	105.45	113.38	12	4
1	A	109	VAL	CA-C-N	6.44	128.81	120.44	2	3
1	A	109	VAL	C-N-CA	6.44	128.81	120.44	2	3
1	A	82	PRO	CA-C-O	-6.44	114.00	121.86	13	2
1	A	89	VAL	CA-CB-CG1	6.43	121.33	110.40	17	2
1	A	225	LYS	CA-C-N	6.43	130.50	121.24	3	3
1	A	225	LYS	C-N-CA	6.43	130.50	121.24	3	3
1	A	102	HIS	ND1-CG-CD2	6.42	112.52	106.10	20	1
1	A	31	ASN	OD1-CG-ND2	-6.42	116.18	122.60	3	3
1	A	194	HIS	CA-C-N	6.42	129.20	120.54	1	3
1	A	194	HIS	C-N-CA	6.42	129.20	120.54	1	3
1	A	83	LYS	CA-C-O	6.42	128.16	121.10	17	3
1	A	203	GLY	O-C-N	6.41	128.87	123.29	6	1
1	A	81	SER	CA-C-O	-6.41	113.02	119.24	12	1
1	A	145	ASP	OD1-CG-OD2	-6.41	107.51	122.90	5	6
1	A	72	VAL	CB-CA-C	6.41	120.29	110.55	1	1
1	A	75	TYR	N-CA-C	-6.40	103.34	111.92	4	3
1	A	57	ARG	NE-CZ-NH1	6.40	127.90	121.50	2	2
1	A	123	HIS	CG-CD2-NE2	6.40	113.60	107.20	5	2
1	A	85	THR	CA-CB-CG2	6.39	121.37	110.50	9	2
1	A	206	SER	CA-C-O	6.39	126.79	119.18	5	1
1	A	65	PRO	CA-C-N	6.39	132.56	122.21	6	1
1	A	65	PRO	C-N-CA	6.39	132.56	122.21	6	1
1	A	39	LEU	N-CA-CB	-6.39	100.73	110.12	2	2
1	A	142	ALA	CA-C-N	6.38	130.01	120.31	14	3
1	A	142	ALA	C-N-CA	6.38	130.01	120.31	14	3
1	A	142	ALA	N-CA-CB	-6.38	101.02	110.53	14	2
1	A	177	ARG	N-CA-CB	-6.38	100.06	110.21	4	1
1	A	204	HIS	CG-CD2-NE2	6.38	113.58	107.20	11	6
1	A	33	ASN	CB-CG-ND2	6.38	125.97	116.40	13	2
1	A	42	MET	O-C-N	-6.38	113.94	122.23	9	3
1	A	173	ASP	N-CA-CB	-6.37	100.08	110.21	9	1
1	A	101	PRO	N-CD-CG	6.37	112.75	103.20	7	3
1	A	82	PRO	N-CA-CB	6.37	109.25	103.33	2	2
1	A	159	ALA	CB-CA-C	6.36	122.27	109.68	3	4
1	A	161	ALA	N-CA-C	6.36	119.36	110.20	12	2
1	A	134	ILE	N-CA-CB	-6.36	103.66	111.67	10	2
1	A	205	SER	N-CA-CB	-6.36	100.68	110.85	12	1
1	A	218	ASN	OD1-CG-ND2	-6.36	116.25	122.60	18	1
1	A	205	SER	CA-C-O	-6.35	114.21	121.58	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	122	LEU	N-CA-C	-6.35	98.86	108.96	19	1
1	A	98	ARG	NH1-CZ-NH2	6.34	127.55	119.30	4	1
1	A	12	TRP	N-CA-C	-6.34	103.89	111.69	15	3
1	A	114	ASN	O-C-N	6.34	128.69	122.09	12	1
1	A	21	ARG	O-C-N	-6.34	114.15	122.39	12	1
1	A	203	GLY	CA-C-O	-6.33	114.49	121.77	6	1
1	A	73	ALA	N-CA-C	-6.33	100.04	109.15	11	1
1	A	16	GLN	CA-C-O	6.33	127.25	120.55	20	2
1	A	191	ALA	N-CA-C	6.32	117.86	110.97	11	3
1	A	189	LEU	CA-C-N	6.32	128.75	120.28	3	5
1	A	189	LEU	C-N-CA	6.32	128.75	120.28	3	5
1	A	238	TYR	CB-CG-CD2	-6.32	111.32	120.80	3	1
1	A	34	SER	N-CA-C	6.31	119.14	111.82	4	2
1	A	16	GLN	CB-CG-CD	6.31	123.32	112.60	11	2
1	A	169	ASP	CA-C-O	-6.30	114.69	121.56	7	1
1	A	140	ARG	O-C-N	-6.29	115.92	123.03	17	2
1	A	108	LEU	CA-C-O	-6.29	112.37	119.79	20	1
1	A	94	VAL	N-CA-C	-6.29	106.67	112.96	19	2
1	A	185	GLY	CA-C-N	6.28	131.13	121.71	3	2
1	A	185	GLY	C-N-CA	6.28	131.13	121.71	3	2
1	A	224	PHE	CB-CA-C	6.27	118.43	109.71	14	1
1	A	149	PHE	CA-C-N	6.26	133.50	121.54	13	3
1	A	149	PHE	C-N-CA	6.26	133.50	121.54	13	3
1	A	74	GLU	CA-CB-CG	6.26	126.62	114.10	8	1
1	A	187	ASN	CB-CG-ND2	6.26	125.79	116.40	3	2
1	A	130	GLY	N-CA-C	6.25	119.71	111.52	10	1
1	A	39	LEU	CA-C-N	6.25	129.81	120.31	2	3
1	A	39	LEU	C-N-CA	6.25	129.81	120.31	2	3
1	A	137	GLY	CA-C-N	6.25	131.80	122.99	14	1
1	A	137	GLY	C-N-CA	6.25	131.80	122.99	14	1
1	A	190	TYR	CA-CB-CG	6.24	125.14	113.90	14	4
1	A	98	ARG	NE-CZ-NH1	-6.24	115.26	121.50	4	1
1	A	32	ALA	CA-C-O	-6.24	113.94	120.55	6	1
1	A	33	ASN	N-CA-CB	-6.23	101.25	110.53	4	2
1	A	209	ASN	OD1-CG-ND2	-6.23	116.37	122.60	6	2
1	A	193	THR	CA-CB-CG2	6.22	121.07	110.50	13	1
1	A	57	ARG	CD-NE-CZ	6.21	133.10	124.40	9	4
1	A	217	GLY	CA-C-N	6.21	132.67	121.92	19	2
1	A	217	GLY	C-N-CA	6.21	132.67	121.92	19	2
1	A	168	GLY	CA-C-N	6.21	131.28	122.09	9	1
1	A	168	GLY	C-N-CA	6.21	131.28	122.09	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	12	TRP	CA-C-N	6.21	128.88	120.44	2	2
1	A	12	TRP	C-N-CA	6.21	128.88	120.44	2	2
1	A	125	ARG	CD-NE-CZ	6.20	133.09	124.40	13	3
1	A	96	TYR	CB-CA-C	6.19	122.56	110.30	7	2
1	A	14	GLN	CG-CD-NE2	6.19	125.69	116.40	17	1
1	A	105	VAL	CA-CB-CG2	6.19	120.92	110.40	4	1
1	A	233	GLY	CA-C-O	-6.19	112.15	119.45	19	2
1	A	127	VAL	CB-CA-C	6.19	119.79	110.63	3	2
1	A	129	TRP	CB-CA-C	6.18	121.93	109.38	7	4
1	A	24	LEU	CA-C-N	6.18	133.00	122.37	7	3
1	A	24	LEU	C-N-CA	6.18	133.00	122.37	7	3
1	A	24	LEU	N-CA-CB	6.18	120.93	110.49	7	1
1	A	26	ASP	CA-C-O	-6.18	113.46	120.32	9	1
1	A	214	PRO	CA-C-O	-6.17	110.16	119.55	3	1
1	A	93	ILE	O-C-N	-6.17	115.39	122.62	15	2
1	A	95	SER	N-CA-C	6.17	118.45	109.07	18	2
1	A	55	ASN	N-CA-CB	-6.17	102.00	111.56	2	2
1	A	180	ASP	O-C-N	6.17	130.79	122.59	9	1
1	A	194	HIS	N-CA-CB	-6.15	100.74	110.28	3	2
1	A	140	ARG	NH1-CZ-NH2	6.15	127.30	119.30	5	3
1	A	116	TRP	CB-CG-CD2	6.15	135.41	126.80	19	1
1	A	228	GLN	CA-C-O	-6.15	112.07	119.27	7	1
1	A	148	PRO	N-CA-C	6.14	120.86	111.34	18	2
1	A	95	SER	CB-CA-C	6.13	123.01	109.94	15	1
1	A	235	GLN	O-C-N	-6.13	114.22	122.43	3	1
1	A	116	TRP	CA-C-O	-6.13	112.53	120.00	8	1
1	A	129	TRP	CA-CB-CG	6.13	125.24	113.60	12	1
1	A	59	ILE	CA-CB-CG1	6.12	120.81	110.40	1	1
1	A	112	ALA	CA-C-O	-6.12	114.40	120.70	4	1
1	A	233	GLY	CA-C-N	6.12	130.81	120.29	11	2
1	A	233	GLY	C-N-CA	6.12	130.81	120.29	11	2
1	A	105	VAL	CA-C-O	-6.11	113.09	121.15	15	2
1	A	32	ALA	O-C-N	-6.10	115.65	122.12	2	1
1	A	131	THR	CA-CB-OG1	6.10	118.75	109.60	20	1
1	A	209	ASN	CA-C-N	6.09	130.51	120.94	1	4
1	A	209	ASN	C-N-CA	6.09	130.51	120.94	1	4
1	A	19	LEU	N-CA-CB	-6.09	100.27	110.39	11	1
1	A	37	ALA	N-CA-C	6.09	118.70	111.33	8	3
1	A	210	ALA	CB-CA-C	-6.09	98.26	109.46	11	1
1	A	217	GLY	CA-C-O	-6.08	114.94	121.88	3	2
1	A	204	HIS	CA-C-O	6.08	128.66	121.36	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	221	PRO	N-CA-CB	6.08	108.97	103.19	2	3
1	A	16	GLN	N-CA-C	6.08	118.70	111.71	17	1
1	A	16	GLN	CG-CD-NE2	6.08	125.52	116.40	15	1
1	A	236	LYS	CA-C-O	6.07	127.19	120.63	13	1
1	A	197	GLY	CA-C-N	6.06	129.01	120.28	16	6
1	A	197	GLY	C-N-CA	6.06	129.01	120.28	16	6
1	A	69	VAL	CA-C-O	-6.06	113.20	120.90	16	3
1	A	85	THR	CA-CB-OG1	6.06	118.69	109.60	6	2
1	A	109	VAL	CA-CB-CG2	6.06	120.71	110.40	9	3
1	A	171	HIS	N-CA-C	-6.06	98.53	108.76	10	1
1	A	191	ALA	CB-CA-C	-6.05	99.62	110.70	19	1
1	A	112	ALA	CA-C-N	6.05	128.64	120.65	5	2
1	A	112	ALA	C-N-CA	6.05	128.64	120.65	5	2
1	A	111	LYS	CA-C-O	-6.05	111.94	119.38	2	3
1	A	28	GLU	CA-C-O	-6.05	112.25	119.15	8	1
1	A	123	HIS	CB-CG-CD2	6.05	139.06	131.20	5	2
1	A	41	GLU	CA-CB-CG	6.04	126.19	114.10	11	1
1	A	225	LYS	O-C-N	-6.04	116.26	123.27	18	1
1	A	57	ARG	CA-C-O	-6.04	113.28	120.10	3	2
1	A	107	ARG	NH1-CZ-NH2	6.03	127.14	119.30	1	1
1	A	63	GLN	CG-CD-NE2	6.03	125.45	116.40	3	1
1	A	208	PRO	N-CA-C	6.03	122.74	113.75	16	1
1	A	236	LYS	O-C-N	-6.03	115.73	122.12	13	1
1	A	19	LEU	O-C-N	-6.03	114.36	122.43	20	1
1	A	19	LEU	CA-C-O	-6.02	114.13	120.63	4	2
1	A	148	PRO	CA-C-O	-6.02	114.56	121.36	6	1
1	A	176	GLU	O-C-N	-6.01	116.21	122.94	15	1
1	A	91	TYR	CA-CB-CG	6.01	124.71	113.90	17	2
1	A	104	THR	CA-CB-CG2	6.00	120.69	110.50	10	2
1	A	63	GLN	OE1-CD-NE2	-5.98	116.62	122.60	2	2
1	A	84	TRP	O-C-N	-5.98	116.19	123.19	18	3
1	A	182	SER	CA-C-O	5.98	126.85	119.79	17	1
1	A	193	THR	CA-C-O	-5.98	113.10	119.97	9	1
1	A	71	ASP	O-C-N	5.98	130.54	122.59	11	1
1	A	88	VAL	CA-CB-CG2	5.98	120.56	110.40	13	1
1	A	128	VAL	CA-C-N	5.97	131.10	122.44	14	2
1	A	128	VAL	C-N-CA	5.97	131.10	122.44	14	2
1	A	65	PRO	N-CD-CG	5.97	112.16	103.20	7	3
1	A	228	GLN	N-CA-CB	-5.97	101.09	110.46	2	2
1	A	230	ASP	CA-C-O	5.96	126.83	119.97	16	1
1	A	24	LEU	O-C-N	5.96	130.52	122.59	11	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	200	LEU	CA-C-N	5.96	130.56	121.51	5	1
1	A	200	LEU	C-N-CA	5.96	130.56	121.51	5	1
1	A	65	PRO	N-CA-C	5.95	124.73	112.47	6	1
1	A	224	PHE	N-CA-CB	-5.95	101.23	109.97	5	2
1	A	184	LEU	CA-C-N	5.95	133.06	121.41	19	3
1	A	184	LEU	C-N-CA	5.95	133.06	121.41	19	3
1	A	214	PRO	CA-C-N	5.94	132.89	121.54	2	1
1	A	214	PRO	C-N-CA	5.94	132.89	121.54	2	1
1	A	137	GLY	N-CA-C	-5.94	102.11	110.96	2	1
1	A	35	LEU	O-C-N	-5.94	115.92	122.09	6	1
1	A	39	LEU	N-CA-C	-5.94	105.12	112.90	8	1
1	A	79	PRO	O-C-N	5.94	126.94	122.73	17	1
1	A	114	ASN	CA-CB-CG	5.93	118.53	112.60	11	4
1	A	171	HIS	N-CA-CB	-5.93	101.41	110.65	19	1
1	A	150	ASP	N-CA-CB	5.92	120.50	110.49	4	1
1	A	239	GLY	N-CA-C	-5.92	105.68	112.79	2	1
1	A	191	ALA	O-C-N	5.92	128.49	122.09	8	1
1	A	129	TRP	NE1-CE2-CD2	-5.92	99.70	107.40	14	2
1	A	45	PHE	N-CA-C	5.92	118.49	111.33	3	2
1	A	66	ARG	O-C-N	-5.92	117.09	123.42	16	1
1	A	56	SER	N-CA-C	5.92	119.32	111.75	8	2
1	A	225	LYS	CA-C-O	-5.92	114.94	121.33	16	1
1	A	42	MET	CA-CB-CG	-5.91	102.28	114.10	8	1
1	A	194	HIS	N-CA-C	5.91	118.67	111.82	3	1
1	A	93	ILE	CA-C-O	-5.89	114.14	121.04	8	1
1	A	43	GLN	OE1-CD-NE2	-5.89	116.71	122.60	17	1
1	A	230	ASP	N-CA-C	-5.89	104.78	111.14	17	1
1	A	227	SER	CA-C-O	5.88	126.84	120.43	7	2
1	A	183	SER	CA-C-N	5.88	131.61	122.26	14	1
1	A	183	SER	C-N-CA	5.88	131.61	122.26	14	1
1	A	33	ASN	O-C-N	-5.87	114.73	122.42	4	2
1	A	201	GLY	O-C-N	5.87	129.32	122.45	19	2
1	A	175	ASP	CA-C-N	5.87	132.62	122.64	6	3
1	A	175	ASP	C-N-CA	5.87	132.62	122.64	6	3
1	A	123	HIS	CA-C-O	5.87	127.00	120.43	11	1
1	A	80	ASN	CA-C-N	5.87	128.55	120.39	15	1
1	A	80	ASN	C-N-CA	5.87	128.55	120.39	15	1
1	A	120	ILE	O-C-N	5.87	125.39	121.69	9	2
1	A	195	ALA	N-CA-C	5.86	117.34	111.07	14	1
1	A	65	PRO	O-C-N	-5.86	114.73	122.64	13	1
1	A	39	LEU	O-C-N	5.86	128.83	122.15	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	232	LYS	N-CA-C	5.85	123.27	110.80	9	3
1	A	79	PRO	CA-N-CD	-5.84	103.82	112.00	13	1
1	A	148	PRO	CB-CA-C	5.84	118.53	111.46	7	1
1	A	11	GLN	CB-CG-CD	5.84	122.53	112.60	11	1
1	A	57	ARG	NE-CZ-NH2	-5.84	113.94	119.20	17	2
1	A	14	GLN	N-CA-C	5.83	120.12	112.89	5	1
1	A	149	PHE	CA-C-O	-5.83	114.66	121.07	19	2
1	A	40	LYS	CA-C-N	5.83	128.57	120.29	16	3
1	A	40	LYS	C-N-CA	5.83	128.57	120.29	16	3
1	A	76	SER	O-C-N	-5.83	116.22	123.33	5	2
1	A	116	TRP	CE3-CZ3-CH2	-5.83	113.52	121.10	18	1
1	A	75	TYR	N-CA-CB	5.82	121.20	111.53	9	1
1	A	143	HIS	CB-CG-ND1	-5.82	113.97	122.70	6	1
1	A	237	LEU	CA-C-N	5.82	132.50	122.09	9	2
1	A	237	LEU	C-N-CA	5.82	132.50	122.09	9	2
1	A	11	GLN	CG-CD-NE2	5.81	125.12	116.40	4	1
1	A	157	ALA	O-C-N	5.81	129.36	123.26	4	1
1	A	177	ARG	NE-CZ-NH1	-5.81	115.69	121.50	4	1
1	A	136	ILE	CA-C-O	-5.81	114.31	120.53	14	1
1	A	51	THR	CA-C-N	5.81	132.79	121.41	6	3
1	A	51	THR	C-N-CA	5.81	132.79	121.41	6	3
1	A	107	ARG	O-C-N	5.81	130.60	122.36	8	2
1	A	177	ARG	CA-C-N	5.80	132.00	122.07	16	2
1	A	177	ARG	C-N-CA	5.80	132.00	122.07	16	2
1	A	153	GLY	N-CA-C	-5.80	104.89	111.85	8	3
1	A	101	PRO	N-CA-CB	5.80	108.78	103.15	12	1
1	A	235	GLN	CG-CD-NE2	5.80	125.09	116.40	16	1
1	A	206	SER	CA-C-N	5.79	129.31	121.20	1	3
1	A	206	SER	C-N-CA	5.79	129.31	121.20	1	3
1	A	95	SER	O-C-N	-5.79	116.44	123.10	10	1
1	A	78	PHE	O-C-N	-5.79	117.77	121.88	9	1
1	A	186	ILE	CA-CB-CG1	5.79	120.24	110.40	4	1
1	A	128	VAL	N-CA-C	-5.79	107.63	113.47	2	1
1	A	153	GLY	CA-C-O	-5.79	116.98	122.13	8	2
1	A	123	HIS	N-CA-C	-5.77	99.83	109.24	4	1
1	A	120	ILE	N-CA-CB	-5.77	105.44	111.61	1	2
1	A	89	VAL	CA-CB-CG2	5.77	120.20	110.40	10	2
1	A	74	GLU	N-CA-C	-5.76	98.52	110.80	15	4
1	A	100	LEU	N-CA-C	-5.76	102.85	110.40	20	1
1	A	177	ARG	CB-CG-CD	5.76	124.55	111.30	2	1
1	A	147	TYR	CA-C-O	-5.76	112.27	120.16	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	131	THR	N-CA-C	-5.75	102.78	110.55	18	1
1	A	147	TYR	CB-CA-C	5.75	121.50	110.17	1	3
1	A	142	ALA	N-CA-C	-5.75	105.46	112.88	12	1
1	A	155	THR	OG1-CB-CG2	-5.75	97.80	109.30	18	2
1	A	220	ASP	N-CA-C	5.75	116.94	109.64	10	1
1	A	17	ASP	CB-CA-C	5.74	120.44	110.68	16	1
1	A	151	GLY	CA-C-O	-5.73	113.32	121.52	8	1
1	A	196	LEU	CA-C-O	5.73	126.50	119.05	12	1
1	A	150	ASP	O-C-N	-5.72	114.98	122.59	16	1
1	A	164	THR	CA-CB-OG1	-5.72	101.02	109.60	10	2
1	A	235	GLN	N-CA-C	5.72	117.52	111.28	14	2
1	A	15	ALA	N-CA-C	-5.72	104.96	111.14	4	2
1	A	160	PHE	CA-C-N	5.72	129.34	120.60	16	3
1	A	160	PHE	C-N-CA	5.72	129.34	120.60	16	3
1	A	64	LYS	N-CA-C	5.71	116.17	109.60	9	3
1	A	34	SER	N-CA-CB	-5.71	101.69	110.20	13	1
1	A	211	VAL	N-CA-CB	-5.71	103.26	110.57	15	1
1	A	92	ARG	CD-NE-CZ	5.70	132.38	124.40	2	1
1	A	138	PHE	CA-C-O	5.70	127.30	120.28	3	1
1	A	42	MET	CA-C-O	5.70	126.57	120.24	9	2
1	A	53	MET	O-C-N	-5.70	116.52	123.19	2	1
1	A	84	TRP	CE2-CD2-CE3	-5.70	113.10	118.80	5	1
1	A	192	ALA	CB-CA-C	-5.70	101.16	110.85	19	1
1	A	40	LYS	N-CA-C	5.70	117.49	111.28	15	2
1	A	66	ARG	N-CA-C	5.69	115.75	108.24	13	2
1	A	46	PHE	CA-CB-CG	5.69	119.49	113.80	13	2
1	A	196	LEU	O-C-N	-5.69	115.67	122.15	1	1
1	A	213	TYR	CB-CG-CD2	-5.68	112.27	120.80	5	2
1	A	178	TRP	CA-C-N	5.68	131.45	122.36	16	2
1	A	178	TRP	C-N-CA	5.68	131.45	122.36	16	2
1	A	158	HIS	CB-CA-C	5.68	122.17	109.56	14	2
1	A	222	GLN	N-CA-CB	-5.68	102.17	110.47	1	2
1	A	116	TRP	CH2-CZ2-CE2	5.68	124.88	117.50	19	1
1	A	29	THR	OG1-CB-CG2	-5.68	97.95	109.30	8	2
1	A	21	ARG	CA-C-N	5.67	128.45	120.28	10	1
1	A	21	ARG	C-N-CA	5.67	128.45	120.28	10	1
1	A	141	GLY	O-C-N	5.67	130.08	122.70	16	1
1	A	21	ARG	NE-CZ-NH1	5.67	127.17	121.50	20	2
1	A	228	GLN	N-CA-C	-5.67	106.53	113.50	10	3
1	A	100	LEU	O-C-N	-5.67	117.13	121.55	2	1
1	A	39	LEU	CA-C-O	-5.67	114.41	120.42	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	12	TRP	N-CA-CB	5.67	118.22	110.01	17	1
1	A	125	ARG	N-CA-C	5.66	118.70	109.59	18	1
1	A	21	ARG	N-CA-C	5.66	118.18	111.33	19	1
1	A	228	GLN	CB-CG-CD	5.66	122.22	112.60	11	1
1	A	220	ASP	O-C-N	-5.66	115.31	121.53	2	1
1	A	89	VAL	CB-CA-C	5.66	119.21	110.50	16	1
1	A	222	GLN	N-CA-C	5.65	117.12	111.07	15	1
1	A	28	GLU	CA-C-N	5.65	131.03	121.14	6	3
1	A	28	GLU	C-N-CA	5.65	131.03	121.14	6	3
1	A	165	GLY	CA-C-N	5.65	132.32	121.54	3	2
1	A	165	GLY	C-N-CA	5.65	132.32	121.54	3	2
1	A	184	LEU	N-CA-C	5.64	122.82	110.80	10	2
1	A	14	GLN	CA-C-O	-5.64	114.44	120.42	3	2
1	A	146	SER	N-CA-CB	-5.63	101.89	110.45	20	2
1	A	31	ASN	O-C-N	-5.63	115.10	122.59	19	2
1	A	78	PHE	CB-CA-C	5.63	118.20	108.91	9	2
1	A	131	THR	O-C-N	5.63	129.32	122.96	7	1
1	A	174	GLU	N-CA-C	5.63	119.76	113.01	3	2
1	A	94	VAL	CA-C-O	5.62	124.60	119.20	4	2
1	A	194	HIS	CB-CG-CD2	5.62	138.51	131.20	1	2
1	A	236	LYS	N-CA-C	5.62	119.40	112.54	1	1
1	A	33	ASN	N-CA-C	-5.62	105.07	111.14	18	1
1	A	197	GLY	O-C-N	5.62	127.62	122.17	6	1
1	A	219	GLY	CA-C-N	5.61	130.26	121.17	8	2
1	A	219	GLY	C-N-CA	5.61	130.26	121.17	8	2
1	A	175	ASP	CA-C-O	-5.61	112.71	119.27	1	1
1	A	62	MET	N-CA-C	5.61	119.30	112.23	20	2
1	A	199	SER	N-CA-C	5.61	118.12	111.33	3	2
1	A	161	ALA	CB-CA-C	5.61	118.66	109.46	16	1
1	A	139	ALA	N-CA-CB	-5.60	102.71	111.56	11	1
1	A	16	GLN	O-C-N	-5.60	116.19	122.12	20	2
1	A	91	TYR	CG-CD1-CE1	-5.59	112.81	121.20	6	1
1	A	58	VAL	N-CA-C	5.59	116.23	110.36	9	2
1	A	205	SER	CA-C-N	5.59	131.32	122.60	9	2
1	A	205	SER	C-N-CA	5.59	131.32	122.60	9	2
1	A	173	ASP	CA-C-N	5.59	130.05	120.72	17	2
1	A	173	ASP	C-N-CA	5.59	130.05	120.72	17	2
1	A	75	TYR	CB-CA-C	5.59	121.54	110.42	14	1
1	A	17	ASP	N-CA-C	-5.58	105.20	112.23	10	2
1	A	91	TYR	CD1-CG-CD2	5.58	126.47	118.10	4	1
1	A	166	LEU	O-C-N	-5.57	115.18	122.59	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	220	ASP	CB-CA-C	5.57	118.05	109.15	9	4
1	A	156	LEU	O-C-N	-5.57	115.19	122.59	13	1
1	A	121	PRO	O-C-N	-5.56	115.13	122.64	7	1
1	A	97	THR	CA-CB-CG2	5.56	119.95	110.50	19	2
1	A	227	SER	N-CA-C	-5.56	99.67	108.73	1	1
1	A	104	THR	N-CA-C	5.56	117.34	111.28	12	2
1	A	41	GLU	N-CA-C	-5.55	105.14	111.14	4	1
1	A	224	PHE	N-CA-C	5.55	118.69	110.48	20	1
1	A	133	ASP	CB-CA-C	-5.54	102.14	110.90	16	2
1	A	220	ASP	CA-C-O	-5.54	113.56	119.22	18	3
1	A	162	PRO	N-CD-CG	5.54	111.52	103.20	9	1
1	A	96	TYR	O-C-N	-5.54	115.98	122.96	16	1
1	A	136	ILE	N-CA-C	-5.54	99.91	107.99	10	3
1	A	178	TRP	CB-CA-C	5.54	120.21	110.36	15	1
1	A	157	ALA	CA-C-O	-5.54	114.55	120.75	20	1
1	A	50	ILE	N-CA-C	-5.53	99.78	107.80	19	1
1	A	81	SER	CB-CA-C	5.53	118.76	109.69	1	2
1	A	105	VAL	O-C-N	5.53	127.86	121.94	3	1
1	A	27	SER	N-CA-CB	-5.53	101.39	110.40	17	1
1	A	133	ASP	N-CA-C	-5.53	104.28	111.02	20	2
1	A	200	LEU	CB-CA-C	-5.53	100.03	109.65	11	1
1	A	221	PRO	N-CD-CG	5.53	111.49	103.20	2	1
1	A	159	ALA	CA-C-O	5.53	127.23	120.60	2	1
1	A	68	GLY	O-C-N	-5.52	115.52	122.70	2	3
1	A	158	HIS	CA-C-O	-5.52	114.39	120.24	5	1
1	A	66	ARG	NE-CZ-NH2	5.52	124.16	119.20	12	2
1	A	103	ILE	CA-CB-CG1	5.52	119.78	110.40	20	1
1	A	180	ASP	CA-C-O	-5.51	112.63	120.51	8	1
1	A	211	VAL	CA-C-N	5.51	131.79	122.65	2	1
1	A	211	VAL	C-N-CA	5.51	131.79	122.65	2	1
1	A	36	GLU	CA-C-O	-5.51	115.03	120.70	16	1
1	A	204	HIS	N-CA-CB	-5.51	102.05	110.42	16	1
1	A	178	TRP	O-C-N	-5.50	115.74	123.11	13	2
1	A	222	GLN	CG-CD-NE2	5.50	124.65	116.40	7	1
1	A	47	GLY	CA-C-O	-5.50	111.00	120.57	17	3
1	A	74	GLU	O-C-N	-5.50	117.32	123.04	9	1
1	A	89	VAL	CA-C-N	5.50	131.45	122.81	11	1
1	A	89	VAL	C-N-CA	5.50	131.45	122.81	11	1
1	A	92	ARG	NH1-CZ-NH2	5.50	126.45	119.30	1	1
1	A	158	HIS	CG-ND1-CE1	-5.50	99.95	109.30	16	1
1	A	157	ALA	CA-C-N	5.49	131.56	122.33	10	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	157	ALA	C-N-CA	5.49	131.56	122.33	10	1
1	A	163	GLY	CA-C-N	5.49	130.48	122.85	8	2
1	A	163	GLY	C-N-CA	5.49	130.48	122.85	8	2
1	A	179	THR	CA-C-N	5.49	132.03	121.54	8	2
1	A	179	THR	C-N-CA	5.49	132.03	121.54	8	2
1	A	90	THR	O-C-N	-5.49	116.24	123.21	17	1
1	A	199	SER	N-CA-CB	-5.49	100.31	110.18	19	1
1	A	59	ILE	O-C-N	5.47	127.99	121.80	14	3
1	A	183	SER	N-CA-CB	-5.47	105.60	113.65	18	1
1	A	192	ALA	N-CA-C	5.47	116.93	111.07	3	1
1	A	41	GLU	CB-CG-CD	5.46	121.89	112.60	12	1
1	A	148	PRO	N-CD-CG	5.46	111.39	103.20	4	2
1	A	58	VAL	CB-CA-C	5.46	118.87	111.88	14	1
1	A	43	GLN	N-CA-C	5.46	117.93	111.33	16	2
1	A	186	ILE	CB-CA-C	-5.46	104.06	111.15	1	1
1	A	218	ASN	N-CA-C	-5.45	105.36	112.23	2	1
1	A	146	SER	N-CA-C	5.45	122.41	110.80	3	1
1	A	131	THR	OG1-CB-CG2	5.43	120.16	109.30	15	1
1	A	55	ASN	OD1-CG-ND2	-5.43	117.17	122.60	13	1
1	A	128	VAL	O-C-N	-5.43	116.42	122.07	7	1
1	A	116	TRP	CD2-CE3-CZ3	5.43	125.66	118.60	18	1
1	A	130	GLY	CA-C-N	5.42	128.41	120.71	13	2
1	A	130	GLY	C-N-CA	5.42	128.41	120.71	13	2
1	A	110	SER	O-C-N	5.42	127.95	122.09	14	1
1	A	72	VAL	N-CA-C	-5.42	101.08	107.70	19	2
1	A	91	TYR	CG-CD2-CE2	-5.42	113.07	121.20	4	1
1	A	127	VAL	N-CA-CB	-5.42	103.88	111.25	15	1
1	A	183	SER	CA-CB-OG	5.42	121.93	111.10	6	1
1	A	36	GLU	CA-C-N	5.41	128.07	120.28	16	1
1	A	36	GLU	C-N-CA	5.41	128.07	120.28	16	1
1	A	131	THR	CA-C-O	-5.41	115.25	121.47	7	1
1	A	44	LYS	O-C-N	-5.41	115.08	122.33	13	1
1	A	150	ASP	CA-C-O	-5.41	112.78	120.51	3	1
1	A	12	TRP	O-C-N	5.41	127.64	122.07	17	2
1	A	31	ASN	CB-CG-ND2	5.40	124.51	116.40	1	1
1	A	186	ILE	CA-C-N	5.40	129.55	121.72	20	1
1	A	186	ILE	C-N-CA	5.40	129.55	121.72	20	1
1	A	116	TRP	CE2-CD2-CE3	-5.40	113.40	118.80	6	1
1	A	211	VAL	CA-C-O	5.40	127.03	121.41	8	1
1	A	97	THR	CA-C-N	5.40	127.95	120.29	10	2
1	A	97	THR	C-N-CA	5.40	127.95	120.29	10	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	86	SER	N-CA-C	-5.39	101.49	110.17	15	2
1	A	45	PHE	CA-C-N	5.39	130.57	121.14	11	2
1	A	45	PHE	C-N-CA	5.39	130.57	121.14	11	2
1	A	122	LEU	CD1-CG-CD2	-5.38	98.96	110.80	3	1
1	A	59	ILE	CB-CA-C	5.38	119.45	112.24	11	1
1	A	116	TRP	NE1-CE2-CZ2	5.38	138.16	130.10	5	1
1	A	67	CYS	N-CA-C	5.38	117.62	110.53	1	2
1	A	24	LEU	CA-C-O	-5.37	112.83	120.51	11	1
1	A	168	GLY	CA-C-O	5.37	124.86	119.27	19	1
1	A	30	LYS	N-CA-C	-5.37	101.22	109.76	3	1
1	A	217	GLY	O-C-N	-5.37	118.42	123.25	2	2
1	A	193	THR	O-C-N	-5.37	116.43	122.12	8	1
1	A	189	LEU	O-C-N	5.37	127.60	122.07	8	1
1	A	131	THR	N-CA-CB	-5.37	102.44	110.17	2	1
1	A	73	ALA	N-CA-CB	-5.36	101.41	109.88	1	1
1	A	129	TRP	CB-CG-CD2	5.36	134.31	126.80	1	1
1	A	184	LEU	N-CA-CB	-5.36	103.16	110.56	17	1
1	A	42	MET	CA-C-N	5.35	127.71	120.38	13	1
1	A	42	MET	C-N-CA	5.35	127.71	120.38	13	1
1	A	84	TRP	N-CA-CB	-5.35	101.70	110.52	15	2
1	A	79	PRO	N-CD-CG	5.34	111.21	103.20	13	1
1	A	226	LEU	O-C-N	-5.34	116.25	123.19	7	2
1	A	71	ASP	CA-C-O	5.34	128.14	120.51	17	1
1	A	214	PRO	O-C-N	-5.33	115.44	122.64	12	1
1	A	120	ILE	N-CA-C	-5.33	102.08	107.89	1	1
1	A	194	HIS	ND1-CG-CD2	-5.33	100.77	106.10	9	1
1	A	167	GLY	CA-C-O	5.33	127.61	122.28	2	1
1	A	192	ALA	CA-C-O	-5.33	114.78	120.42	13	2
1	A	116	TRP	CE2-CD2-CG	5.32	113.59	107.20	5	1
1	A	80	ASN	CA-CB-CG	5.32	117.92	112.60	12	2
1	A	86	SER	CB-CA-C	5.32	122.54	110.67	19	1
1	A	18	TYR	CA-C-O	-5.32	114.86	120.55	2	1
1	A	230	ASP	N-CA-CB	-5.31	102.05	110.28	8	1
1	A	200	LEU	O-C-N	-5.31	114.87	122.41	17	1
1	A	237	LEU	N-CA-C	-5.31	106.48	113.12	3	1
1	A	107	ARG	CD-NE-CZ	5.31	131.83	124.40	4	1
1	A	32	ALA	N-CA-C	5.31	117.82	111.71	5	2
1	A	113	LEU	N-CA-C	5.31	117.98	111.82	14	3
1	A	13	GLU	CA-C-O	5.31	126.04	120.42	4	1
1	A	66	ARG	CA-C-O	-5.30	115.74	121.36	3	2
1	A	50	ILE	CA-C-O	-5.29	115.12	120.31	1	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	217	GLY	N-CA-C	5.29	125.72	113.18	4	1
1	A	34	SER	O-C-N	5.29	128.18	122.15	14	1
1	A	97	THR	CA-CB-OG1	5.29	117.54	109.60	5	1
1	A	110	SER	N-CA-CB	5.29	117.64	109.98	10	1
1	A	29	THR	CB-CA-C	5.29	120.08	110.72	20	1
1	A	209	ASN	O-C-N	-5.28	115.23	122.46	7	1
1	A	136	ILE	CA-CB-CG2	5.28	119.48	110.50	8	1
1	A	120	ILE	CA-CB-CG1	5.28	119.37	110.40	9	1
1	A	216	TYR	O-C-N	-5.28	117.15	123.06	18	1
1	A	176	GLU	CA-C-O	5.27	127.69	121.36	8	1
1	A	122	LEU	CA-C-N	5.27	129.78	122.77	12	2
1	A	122	LEU	C-N-CA	5.27	129.78	122.77	12	2
1	A	118	LYS	CG-CD-CE	5.27	123.42	111.30	9	1
1	A	215	THR	CA-C-O	-5.27	116.05	122.64	9	1
1	A	133	ASP	O-C-N	5.27	127.72	122.03	1	1
1	A	28	GLU	N-CA-CB	-5.27	102.78	110.47	5	1
1	A	143	HIS	CA-C-O	-5.27	112.91	119.18	1	1
1	A	64	LYS	CG-CD-CE	5.26	123.40	111.30	8	1
1	A	192	ALA	N-CA-CB	5.26	117.85	110.12	8	1
1	A	176	GLU	CB-CG-CD	-5.25	103.67	112.60	17	1
1	A	171	HIS	CA-C-O	-5.25	114.50	120.32	3	1
1	A	227	SER	CA-C-N	5.25	127.83	120.28	9	2
1	A	227	SER	C-N-CA	5.25	127.83	120.28	9	2
1	A	212	MET	CB-CA-C	5.25	122.41	111.97	18	1
1	A	23	TYR	N-CA-C	-5.24	107.55	114.31	2	1
1	A	129	TRP	CG-CD2-CE3	-5.24	128.66	133.90	13	1
1	A	114	ASN	N-CA-C	5.24	117.74	111.71	16	1
1	A	195	ALA	N-CA-CB	5.24	117.60	110.01	12	1
1	A	116	TRP	N-CA-CB	-5.24	102.73	110.53	19	1
1	A	62	MET	CA-C-O	-5.23	114.43	120.24	9	1
1	A	92	ARG	CA-C-N	5.23	128.91	122.37	19	1
1	A	92	ARG	C-N-CA	5.23	128.91	122.37	19	1
1	A	76	SER	CB-CA-C	5.23	120.83	110.42	12	2
1	A	143	HIS	N-CA-C	5.23	119.53	113.20	9	1
1	A	90	THR	CA-CB-CG2	5.23	119.39	110.50	10	1
1	A	197	GLY	CA-C-O	5.22	126.04	120.40	4	1
1	A	32	ALA	N-CA-CB	-5.22	101.72	110.39	11	1
1	A	206	SER	N-CA-CB	-5.22	102.27	110.46	2	1
1	A	137	GLY	CA-C-O	-5.22	115.99	121.57	19	1
1	A	231	ILE	CA-C-O	-5.22	113.20	119.36	6	1
1	A	179	THR	CA-CB-CG2	5.21	119.36	110.50	19	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	97	THR	N-CA-CB	-5.21	102.53	110.45	8	1
1	A	58	VAL	CA-CB-CG2	5.21	119.26	110.40	11	1
1	A	172	PHE	O-C-N	-5.21	116.59	123.16	11	2
1	A	27	SER	CB-CA-C	5.21	120.56	110.46	19	1
1	A	215	THR	CA-CB-OG1	5.20	117.40	109.60	2	2
1	A	76	SER	CA-C-O	-5.20	113.07	120.51	7	1
1	A	112	ALA	O-C-N	-5.20	116.47	122.09	10	1
1	A	154	ASN	N-CA-CB	5.20	117.19	109.19	11	1
1	A	124	PHE	CA-C-O	-5.19	115.03	120.58	9	1
1	A	118	LYS	CA-C-O	-5.19	113.66	119.79	13	1
1	A	61	ILE	CA-CB-CG1	5.19	119.22	110.40	12	4
1	A	12	TRP	NE1-CE2-CD2	-5.19	100.66	107.40	20	2
1	A	117	GLY	CA-C-N	5.19	128.90	120.60	14	1
1	A	117	GLY	C-N-CA	5.19	128.90	120.60	14	1
1	A	126	LYS	O-C-N	-5.18	117.15	123.16	4	2
1	A	86	SER	O-C-N	-5.18	116.90	123.17	8	1
1	A	170	ALA	CA-C-N	5.18	130.72	122.74	2	1
1	A	170	ALA	C-N-CA	5.18	130.72	122.74	2	1
1	A	196	LEU	N-CA-C	5.18	119.09	112.87	18	1
1	A	139	ALA	CA-C-O	-5.18	115.91	121.45	10	1
1	A	13	GLU	N-CA-C	5.18	116.92	111.28	5	1
1	A	156	LEU	CA-C-N	5.17	131.01	121.85	14	1
1	A	156	LEU	C-N-CA	5.17	131.01	121.85	14	1
1	A	64	LYS	N-CA-CB	-5.17	101.86	109.98	8	1
1	A	136	ILE	N-CA-CB	-5.17	105.15	111.67	7	1
1	A	204	HIS	CB-CA-C	-5.17	101.27	109.80	15	1
1	A	80	ASN	N-CA-C	-5.17	100.66	108.46	14	1
1	A	54	LEU	O-C-N	-5.16	116.58	122.93	16	1
1	A	221	PRO	CA-C-O	-5.15	115.64	121.98	3	1
1	A	193	THR	N-CA-C	5.15	116.89	111.28	11	1
1	A	146	SER	O-C-N	-5.15	116.92	122.79	17	1
1	A	84	TRP	NE1-CE2-CD2	-5.15	100.70	107.40	18	1
1	A	131	THR	CA-CB-CG2	5.15	119.26	110.50	18	1
1	A	37	ALA	O-C-N	5.15	127.66	122.09	19	1
1	A	213	TYR	CA-CB-CG	5.15	123.17	113.90	2	1
1	A	57	ARG	CB-CA-C	5.15	119.34	110.79	5	1
1	A	140	ARG	N-CA-C	-5.15	101.32	109.76	20	1
1	A	135	MET	CA-C-O	5.14	126.19	120.43	20	1
1	A	44	LYS	CG-CD-CE	5.14	123.12	111.30	7	1
1	A	46	PHE	CA-C-N	5.14	131.48	121.41	15	1
1	A	46	PHE	C-N-CA	5.14	131.48	121.41	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	223	ASN	CB-CG-ND2	5.14	124.11	116.40	11	1
1	A	152	PRO	CA-C-O	-5.13	115.18	121.03	6	1
1	A	25	TYR	O-C-N	-5.13	117.26	123.27	16	2
1	A	150	ASP	OD1-CG-OD2	-5.13	110.58	122.90	20	1
1	A	178	TRP	CB-CG-CD1	-5.13	119.20	126.90	12	1
1	A	71	ASP	CB-CG-OD2	5.13	130.19	118.40	2	1
1	A	22	PHE	CA-C-O	-5.12	113.08	119.38	12	1
1	A	153	GLY	O-C-N	5.12	129.31	123.21	19	1
1	A	88	VAL	CB-CA-C	5.12	117.75	111.25	11	1
1	A	226	LEU	CB-CA-C	-5.11	100.01	109.37	1	2
1	A	174	GLU	CA-C-N	5.11	131.31	121.18	6	1
1	A	174	GLU	C-N-CA	5.11	131.31	121.18	6	1
1	A	77	LEU	N-CA-CB	5.11	117.93	111.79	9	1
1	A	191	ALA	N-CA-CB	-5.11	102.66	110.07	17	1
1	A	121	PRO	N-CD-CG	5.11	110.86	103.20	1	1
1	A	135	MET	N-CA-CB	5.11	118.95	110.47	11	1
1	A	12	TRP	CE2-CD2-CE3	-5.11	113.69	118.80	4	1
1	A	107	ARG	NE-CZ-NH2	-5.10	114.61	119.20	17	2
1	A	32	ALA	CB-CA-C	-5.10	102.32	110.79	8	1
1	A	135	MET	N-CA-C	-5.10	100.85	108.96	10	1
1	A	119	GLU	N-CA-CB	-5.10	102.60	110.20	16	1
1	A	209	ASN	CA-C-O	-5.10	113.11	119.18	2	1
1	A	113	LEU	CB-CA-C	-5.10	101.20	110.63	11	1
1	A	77	LEU	O-C-N	-5.09	117.97	123.42	8	1
1	A	154	ASN	CB-CA-C	5.09	120.56	110.42	15	2
1	A	196	LEU	N-CA-CB	-5.09	102.65	110.44	14	1
1	A	209	ASN	N-CA-C	5.09	118.59	112.38	17	1
1	A	130	GLY	CA-C-O	5.09	126.19	121.76	18	1
1	A	132	ALA	N-CA-CB	-5.08	102.09	111.53	2	1
1	A	178	TRP	CB-CG-CD2	5.08	133.91	126.80	12	1
1	A	190	TYR	N-CA-C	5.07	116.81	111.28	7	1
1	A	146	SER	CA-CB-OG	5.07	121.24	111.10	14	1
1	A	18	TYR	CG-CD2-CE2	-5.07	113.60	121.20	7	1
1	A	11	GLN	CA-CB-CG	5.07	124.23	114.10	11	1
1	A	193	THR	CA-CB-OG1	-5.07	102.00	109.60	17	1
1	A	27	SER	O-C-N	-5.07	115.64	122.43	13	1
1	A	75	TYR	CA-CB-CG	5.06	123.02	113.90	6	1
1	A	170	ALA	N-CA-C	5.06	117.36	109.52	1	1
1	A	176	GLU	CB-CA-C	5.06	118.30	109.65	5	1
1	A	151	GLY	CA-C-N	5.06	125.84	120.13	7	1
1	A	151	GLY	C-N-CA	5.06	125.84	120.13	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	72	VAL	CA-CB-CG2	5.05	118.99	110.40	5	1
1	A	140	ARG	N-CA-CB	-5.05	102.77	110.85	3	1
1	A	53	MET	N-CA-CB	-5.05	102.19	110.43	17	1
1	A	227	SER	CA-CB-OG	5.05	121.20	111.10	17	1
1	A	207	ASP	N-CA-CB	-5.05	102.85	110.32	11	1
1	A	215	THR	N-CA-C	-5.04	103.67	110.68	11	1
1	A	128	VAL	CA-CB-CG2	5.04	118.96	110.40	1	1
1	A	126	LYS	CA-C-O	5.04	126.71	120.92	4	1
1	A	111	LYS	N-CA-CB	5.03	117.36	110.07	9	1
1	A	67	CYS	CA-C-N	5.03	131.27	121.41	13	1
1	A	67	CYS	C-N-CA	5.03	131.27	121.41	13	1
1	A	230	ASP	CB-CG-OD2	5.03	129.97	118.40	18	1
1	A	30	LYS	N-CA-CB	-5.03	102.47	110.06	15	1
1	A	178	TRP	N-CA-C	5.03	117.90	110.46	17	1
1	A	41	GLU	CA-C-O	5.03	125.75	119.97	6	1
1	A	152	PRO	CA-C-N	5.02	129.36	122.63	17	1
1	A	152	PRO	C-N-CA	5.02	129.36	122.63	17	1
1	A	146	SER	CB-CA-C	5.02	118.06	109.72	4	1
1	A	41	GLU	CB-CA-C	5.02	119.39	110.85	19	1
1	A	92	ARG	CB-CG-CD	5.02	122.84	111.30	4	1
1	A	12	TRP	CA-C-O	-5.02	115.10	120.42	14	1
1	A	78	PHE	N-CA-C	5.02	116.81	109.84	13	1
1	A	24	LEU	CB-CA-C	5.02	120.40	110.42	18	1
1	A	164	THR	N-CA-C	5.01	118.66	112.54	1	1
1	A	128	VAL	N-CA-CB	-5.01	106.36	112.33	2	1
1	A	106	ASP	CA-C-N	5.01	129.15	120.58	12	1
1	A	106	ASP	C-N-CA	5.01	129.15	120.58	12	1
1	A	90	THR	N-CA-C	-5.01	101.98	109.95	14	1
1	A	226	LEU	N-CA-C	-5.01	101.15	109.46	10	1
1	A	218	ASN	N-CA-CB	5.01	117.79	110.88	15	1
1	A	23	TYR	O-C-N	5.00	129.07	122.36	12	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	23	TYR	Sidechain,Peptide	9
1	A	147	TYR	Sidechain	6
1	A	140	ARG	Sidechain,Peptide	6
1	A	238	TYR	Sidechain	6

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Mol	Chain	Res	Type	Group	Models (Total)
1	A	96	TYR	Sidechain,Mainchain	6
1	A	216	TYR	Sidechain	6
1	A	190	TYR	Sidechain	5
1	A	18	TYR	Sidechain	5
1	A	46	PHE	Sidechain	4
1	A	91	TYR	Sidechain	4
1	A	78	PHE	Sidechain	4
1	A	25	TYR	Sidechain	4
1	A	21	ARG	Sidechain	4
1	A	138	PHE	Sidechain	3
1	A	107	ARG	Sidechain	3
1	A	75	TYR	Sidechain	3
1	A	74	GLU	Peptide	3
1	A	149	PHE	Sidechain	3
1	A	185	GLY	Mainchain	2
1	A	213	TYR	Sidechain	2
1	A	71	ASP	Sidechain	2
1	A	73	ALA	Peptide	2
1	A	148	PRO	Peptide	2
1	A	188	PHE	Sidechain	2
1	A	160	PHE	Sidechain	2
1	A	102	HIS	Sidechain	2
1	A	194	HIS	Sidechain	2
1	A	92	ARG	Sidechain	1
1	A	97	THR	Mainchain	1
1	A	32	ALA	Mainchain	1
1	A	144	GLY	Peptide	1
1	A	224	PHE	Sidechain	1
1	A	22	PHE	Sidechain	1
1	A	45	PHE	Sidechain	1
1	A	69	VAL	Mainchain	1
1	A	232	LYS	Mainchain	1
1	A	128	VAL	Peptide	1
1	A	157	ALA	Peptide	1
1	A	180	ASP	Mainchain	1
1	A	171	HIS	Sidechain	1
1	A	72	VAL	Peptide	1
1	A	113	LEU	Mainchain	1
1	A	172	PHE	Sidechain	1
1	A	100	LEU	Mainchain	1
1	A	233	GLY	Mainchain	1
1	A	66	ARG	Sidechain	1

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Mol	Chain	Res	Type	Group	Models (Total)
1	A	155	THR	Mainchain	1
1	A	131	THR	Mainchain	1
1	A	154	ASN	Peptide	1
1	A	177	ARG	Sidechain	1
1	A	239	GLY	Mainchain	1
1	A	83	LYS	Peptide	1
1	A	79	PRO	Peptide	1
1	A	121	PRO	Peptide	1
1	A	124	PHE	Sidechain	1
1	A	94	VAL	Mainchain	1
1	A	168	GLY	Peptide	1
1	A	181	GLY	Peptide	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	1805	1741	1741	2±2
4	A	5842	0	9144	125±14
All	All	153020	34820	217699	2538

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 7.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:320:PX4:H17	4:A:353:PX4:H16	0.96	1.32	10	1
4:A:373:PX4:H41	4:A:421:PX4:H66	0.96	1.37	1	1
4:A:389:PX4:H50	4:A:398:PX4:H22	0.95	1.37	2	1
4:A:313:PX4:H25	4:A:348:PX4:H64	0.95	1.39	6	1
4:A:313:PX4:H26	4:A:354:PX4:H50	0.94	1.35	5	1
4:A:349:PX4:H19	4:A:363:PX4:H21	0.93	1.41	16	1
4:A:382:PX4:H17	4:A:385:PX4:H49	0.92	1.38	1	1
4:A:361:PX4:H49	4:A:362:PX4:H22	0.91	1.41	4	1
4:A:329:PX4:H60	4:A:336:PX4:H49	0.89	1.42	14	1
4:A:378:PX4:H49	4:A:411:PX4:H54	0.89	1.43	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:369:PX4:H19	4:A:370:PX4:H22	0.86	1.47	14	1
4:A:336:PX4:H40	4:A:399:PX4:H33	0.86	1.45	15	1
4:A:308:PX4:H55	4:A:318:PX4:H27	0.86	1.46	7	1
4:A:381:PX4:H21	4:A:385:PX4:H54	0.85	1.48	16	1
4:A:324:PX4:H20	4:A:340:PX4:H54	0.85	1.48	16	1
4:A:374:PX4:H47	4:A:398:PX4:H19	0.85	1.48	2	1
4:A:325:PX4:H53	4:A:350:PX4:H54	0.85	1.48	14	1
4:A:328:PX4:H21	4:A:335:PX4:H16	0.84	1.45	6	2
4:A:386:PX4:H21	4:A:387:PX4:H17	0.83	1.50	15	2
4:A:336:PX4:H67	4:A:352:PX4:H58	0.83	1.49	14	1
4:A:324:PX4:H64	4:A:339:PX4:H26	0.83	1.48	12	1
4:A:320:PX4:H29	4:A:328:PX4:H37	0.82	1.50	3	1
4:A:355:PX4:H20	4:A:356:PX4:H17	0.81	1.52	11	2
4:A:376:PX4:H58	4:A:430:PX4:H32	0.81	1.52	11	1
4:A:315:PX4:H67	4:A:319:PX4:H16	0.81	1.51	2	1
4:A:377:PX4:H57	4:A:384:PX4:H59	0.80	1.51	3	1
4:A:375:PX4:H66	4:A:421:PX4:H44	0.80	1.52	14	1
4:A:376:PX4:H42	4:A:398:PX4:H59	0.80	1.52	17	1
4:A:373:PX4:H20	4:A:380:PX4:H54	0.80	1.53	15	1
4:A:385:PX4:H51	4:A:387:PX4:H49	0.80	1.53	14	1
4:A:305:PX4:H53	4:A:305:PX4:H31	0.80	1.51	1	1
4:A:328:PX4:H16	4:A:335:PX4:H20	0.80	1.50	14	1
4:A:348:PX4:H37	4:A:349:PX4:H31	0.80	1.50	19	1
4:A:381:PX4:H22	4:A:395:PX4:H53	0.80	1.53	9	1
4:A:387:PX4:H60	4:A:395:PX4:H29	0.80	1.51	17	1
4:A:386:PX4:H48	4:A:395:PX4:H21	0.79	1.54	2	1
4:A:337:PX4:H16	4:A:354:PX4:H16	0.79	1.54	20	1
4:A:324:PX4:H67	4:A:331:PX4:H34	0.79	1.54	17	1
4:A:398:PX4:H66	4:A:403:PX4:H40	0.79	1.52	15	1
4:A:405:PX4:H48	4:A:414:PX4:H22	0.78	1.55	14	1
4:A:371:PX4:H55	4:A:412:PX4:H16	0.78	1.56	17	1
4:A:401:PX4:H42	4:A:410:PX4:H40	0.78	1.54	19	1
4:A:424:PX4:H14	4:A:424:PX4:H6	0.78	1.55	19	1
4:A:371:PX4:H58	4:A:412:PX4:H49	0.78	1.56	15	1
1:A:140:ARG:CZ	4:A:330:PX4:H4	0.78	2.09	20	3
4:A:374:PX4:H19	4:A:383:PX4:H16	0.78	1.56	10	1
4:A:404:PX4:H61	4:A:414:PX4:H29	0.77	1.57	14	1
4:A:348:PX4:H42	4:A:374:PX4:H67	0.77	1.55	16	1
4:A:347:PX4:H22	4:A:354:PX4:H20	0.77	1.57	18	1
4:A:405:PX4:H15	4:A:414:PX4:H18	0.77	1.56	1	2
4:A:402:PX4:H60	4:A:427:PX4:H31	0.77	1.57	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:376:PX4:H66	4:A:425:PX4:H26	0.76	1.57	18	1
4:A:346:PX4:H27	4:A:346:PX4:H52	0.76	1.54	12	1
4:A:375:PX4:H21	4:A:421:PX4:H25	0.76	1.56	19	1
4:A:318:PX4:H68	4:A:322:PX4:H59	0.76	1.57	1	1
4:A:370:PX4:H41	4:A:377:PX4:H41	0.75	1.56	10	1
4:A:305:PX4:H16	4:A:328:PX4:H4	0.75	1.57	11	1
4:A:339:PX4:H48	4:A:355:PX4:H56	0.75	1.56	13	1
4:A:357:PX4:H17	4:A:358:PX4:H22	0.75	1.56	8	1
4:A:312:PX4:H32	4:A:327:PX4:H63	0.75	1.57	7	1
4:A:375:PX4:H6	4:A:375:PX4:H14	0.75	1.58	5	1
4:A:392:PX4:H55	4:A:409:PX4:H67	0.75	1.58	7	1
4:A:387:PX4:H55	4:A:395:PX4:H60	0.74	1.58	12	1
4:A:328:PX4:H58	4:A:335:PX4:H23	0.74	1.59	20	1
4:A:336:PX4:H51	4:A:344:PX4:H53	0.74	1.59	7	1
4:A:329:PX4:H57	4:A:346:PX4:H31	0.74	1.58	8	1
4:A:332:PX4:H16	4:A:340:PX4:H26	0.74	1.58	9	1
4:A:333:PX4:H51	4:A:348:PX4:H53	0.74	1.60	16	1
4:A:339:PX4:H16	4:A:355:PX4:H50	0.74	1.57	19	1
4:A:321:PX4:H16	4:A:330:PX4:H49	0.74	1.59	1	1
4:A:376:PX4:H27	4:A:383:PX4:H25	0.74	1.58	16	1
4:A:325:PX4:H67	4:A:376:PX4:H45	0.73	1.56	6	1
4:A:394:PX4:H52	4:A:402:PX4:H31	0.73	1.58	12	1
4:A:313:PX4:H26	4:A:356:PX4:H28	0.73	1.61	6	1
4:A:348:PX4:H27	4:A:349:PX4:H48	0.73	1.59	7	2
4:A:396:PX4:H24	4:A:396:PX4:H54	0.73	1.59	10	1
4:A:376:PX4:H46	4:A:430:PX4:H17	0.72	1.61	13	4
4:A:383:PX4:H19	4:A:398:PX4:H50	0.72	1.61	13	1
4:A:307:PX4:H70	4:A:309:PX4:H21	0.72	1.61	15	1
4:A:370:PX4:H20	4:A:419:PX4:H51	0.72	1.61	9	2
4:A:328:PX4:H38	4:A:351:PX4:H34	0.72	1.59	2	1
4:A:424:PX4:H49	4:A:430:PX4:H25	0.72	1.61	6	1
4:A:379:PX4:H37	4:A:427:PX4:H37	0.72	1.61	7	1
4:A:330:PX4:H24	4:A:331:PX4:H27	0.72	1.60	14	1
4:A:388:PX4:H41	4:A:402:PX4:H32	0.72	1.61	8	1
4:A:378:PX4:H62	4:A:380:PX4:H34	0.72	1.62	13	1
4:A:404:PX4:H23	4:A:412:PX4:H48	0.72	1.62	18	1
4:A:368:PX4:H1	4:A:368:PX4:H22	0.72	1.61	1	1
4:A:352:PX4:H17	4:A:365:PX4:H22	0.72	1.60	1	1
4:A:329:PX4:H19	4:A:338:PX4:H24	0.72	1.62	12	1
4:A:352:PX4:H27	4:A:416:PX4:H44	0.72	1.59	14	1
4:A:310:PX4:H55	4:A:363:PX4:H51	0.72	1.62	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:362:PX4:H39	4:A:379:PX4:H39	0.71	1.61	13	1
4:A:379:PX4:H21	4:A:427:PX4:H16	0.71	1.60	20	1
4:A:325:PX4:H33	4:A:325:PX4:H65	0.71	1.60	13	1
4:A:334:PX4:H67	4:A:341:PX4:H35	0.71	1.61	17	1
4:A:324:PX4:H42	4:A:324:PX4:H62	0.71	1.61	10	1
4:A:370:PX4:H44	4:A:378:PX4:H40	0.71	1.60	5	1
4:A:368:PX4:H58	4:A:376:PX4:H57	0.71	1.60	3	1
4:A:328:PX4:H49	4:A:335:PX4:H28	0.71	1.63	8	1
4:A:336:PX4:H15	4:A:351:PX4:H58	0.71	1.62	8	1
4:A:378:PX4:H59	4:A:379:PX4:H37	0.71	1.61	16	1
4:A:332:PX4:H38	4:A:340:PX4:H67	0.70	1.62	8	1
4:A:329:PX4:H22	4:A:351:PX4:H53	0.70	1.62	20	1
4:A:348:PX4:H49	4:A:356:PX4:H49	0.70	1.63	8	1
4:A:401:PX4:H16	4:A:427:PX4:H47	0.70	1.63	6	2
4:A:407:PX4:H37	4:A:423:PX4:H41	0.70	1.61	13	1
4:A:308:PX4:H24	4:A:315:PX4:H17	0.70	1.61	7	2
4:A:308:PX4:H65	4:A:314:PX4:H61	0.70	1.62	18	1
4:A:407:PX4:H32	4:A:423:PX4:H29	0.70	1.61	19	1
4:A:312:PX4:H62	4:A:317:PX4:H64	0.70	1.64	19	1
4:A:381:PX4:H60	4:A:387:PX4:H35	0.70	1.63	2	1
4:A:342:PX4:H19	4:A:351:PX4:H22	0.70	1.62	18	1
4:A:406:PX4:H23	4:A:408:PX4:H39	0.70	1.62	5	1
4:A:424:PX4:H30	4:A:424:PX4:H58	0.70	1.62	8	1
4:A:306:PX4:H63	4:A:333:PX4:H59	0.69	1.62	6	1
4:A:380:PX4:H20	4:A:411:PX4:H47	0.69	1.61	13	1
4:A:390:PX4:H48	4:A:399:PX4:H49	0.69	1.64	20	1
4:A:425:PX4:H25	4:A:430:PX4:H21	0.69	1.64	20	1
4:A:392:PX4:H66	4:A:402:PX4:H62	0.69	1.62	6	1
4:A:324:PX4:H72	4:A:355:PX4:H67	0.69	1.64	10	1
4:A:337:PX4:H20	4:A:346:PX4:H26	0.69	1.64	15	1
4:A:353:PX4:H63	4:A:360:PX4:H49	0.69	1.62	9	1
4:A:384:PX4:H16	4:A:400:PX4:H20	0.69	1.65	9	1
4:A:372:PX4:O2	4:A:373:PX4:H18	0.69	1.87	7	1
4:A:380:PX4:H17	4:A:381:PX4:O6	0.69	1.88	7	2
4:A:309:PX4:H67	4:A:399:PX4:H67	0.69	1.64	8	1
4:A:391:PX4:H52	4:A:400:PX4:H57	0.69	1.64	14	1
4:A:316:PX4:H68	4:A:317:PX4:H30	0.69	1.63	20	1
4:A:393:PX4:H39	4:A:400:PX4:H40	0.69	1.64	2	1
4:A:424:PX4:H35	4:A:425:PX4:H67	0.69	1.63	3	1
4:A:334:PX4:H15	4:A:341:PX4:H16	0.69	1.64	6	1
4:A:344:PX4:H57	4:A:346:PX4:H31	0.69	1.64	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:317:PX4:H46	4:A:343:PX4:H17	0.69	1.65	6	1
4:A:328:PX4:H57	4:A:335:PX4:H31	0.68	1.65	17	1
4:A:377:PX4:H22	4:A:378:PX4:H16	0.68	1.64	20	1
4:A:394:PX4:H38	4:A:418:PX4:H27	0.68	1.64	14	1
4:A:305:PX4:H28	4:A:335:PX4:H28	0.68	1.65	4	1
4:A:392:PX4:H59	4:A:418:PX4:H27	0.68	1.65	8	1
4:A:403:PX4:H56	4:A:404:PX4:H62	0.68	1.64	12	1
4:A:373:PX4:H33	4:A:421:PX4:H72	0.68	1.64	14	1
4:A:377:PX4:H16	4:A:378:PX4:H20	0.68	1.66	10	2
4:A:373:PX4:H54	4:A:381:PX4:H52	0.68	1.66	7	1
4:A:376:PX4:H22	4:A:390:PX4:H25	0.68	1.64	7	1
4:A:332:PX4:H22	4:A:340:PX4:H25	0.68	1.65	20	1
4:A:331:PX4:H61	4:A:346:PX4:H60	0.68	1.65	15	1
4:A:388:PX4:H20	4:A:395:PX4:H17	0.68	1.66	7	2
4:A:417:PX4:H46	4:A:426:PX4:H19	0.68	1.66	2	1
4:A:384:PX4:H20	4:A:400:PX4:H16	0.68	1.66	4	5
4:A:419:PX4:H37	4:A:426:PX4:H66	0.68	1.65	4	1
4:A:308:PX4:H64	4:A:372:PX4:H42	0.67	1.64	5	1
4:A:386:PX4:H66	4:A:402:PX4:H33	0.67	1.64	15	1
4:A:378:PX4:H42	4:A:387:PX4:H31	0.67	1.65	17	1
4:A:379:PX4:H28	4:A:427:PX4:H28	0.67	1.65	19	1
4:A:305:PX4:H25	4:A:320:PX4:H33	0.67	1.64	2	1
4:A:337:PX4:H29	4:A:355:PX4:H33	0.67	1.65	10	1
4:A:394:PX4:H23	4:A:412:PX4:H49	0.67	1.65	10	1
4:A:409:PX4:H65	4:A:410:PX4:H65	0.67	1.66	18	1
4:A:386:PX4:H62	4:A:402:PX4:H29	0.67	1.67	16	1
4:A:337:PX4:H46	4:A:346:PX4:H48	0.67	1.66	17	1
4:A:333:PX4:H35	4:A:339:PX4:H67	0.67	1.65	12	1
4:A:345:PX4:H46	4:A:354:PX4:H16	0.67	1.65	19	1
4:A:369:PX4:H47	4:A:370:PX4:H25	0.67	1.66	19	1
4:A:325:PX4:H31	4:A:349:PX4:H59	0.67	1.65	1	1
4:A:307:PX4:H21	4:A:363:PX4:H26	0.67	1.65	7	1
4:A:390:PX4:H17	4:A:397:PX4:H66	0.67	1.65	8	1
4:A:384:PX4:H28	4:A:400:PX4:H52	0.67	1.65	12	1
4:A:384:PX4:H17	4:A:393:PX4:H20	0.67	1.65	14	1
4:A:337:PX4:H61	4:A:355:PX4:H40	0.67	1.67	18	1
4:A:305:PX4:H51	4:A:362:PX4:H48	0.67	1.67	12	1
4:A:417:PX4:H69	4:A:426:PX4:H40	0.67	1.66	12	1
4:A:399:PX4:H19	4:A:408:PX4:H14	0.67	1.65	1	2
4:A:413:PX4:H29	4:A:422:PX4:H24	0.67	1.67	4	1
4:A:355:PX4:H21	4:A:356:PX4:H15	0.67	1.67	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:400:PX4:H49	4:A:425:PX4:H27	0.67	1.66	12	1
4:A:419:PX4:H22	4:A:426:PX4:H50	0.67	1.66	18	1
4:A:309:PX4:H19	4:A:366:PX4:H49	0.67	1.64	5	1
4:A:405:PX4:H19	4:A:420:PX4:H21	0.67	1.64	5	1
4:A:306:PX4:H59	4:A:311:PX4:H55	0.67	1.67	15	1
4:A:339:PX4:H9	4:A:340:PX4:H51	0.66	1.66	14	1
4:A:384:PX4:H28	4:A:400:PX4:H58	0.66	1.65	19	1
4:A:308:PX4:H70	4:A:382:PX4:H39	0.66	1.67	5	1
4:A:376:PX4:H24	4:A:429:PX4:H31	0.66	1.64	10	1
4:A:336:PX4:H45	4:A:399:PX4:H29	0.66	1.66	15	1
4:A:401:PX4:H25	4:A:427:PX4:H48	0.66	1.67	18	1
4:A:337:PX4:H67	4:A:355:PX4:H40	0.66	1.67	2	1
4:A:347:PX4:H72	4:A:351:PX4:H21	0.66	1.67	2	1
4:A:379:PX4:H71	4:A:380:PX4:H45	0.66	1.66	4	1
4:A:388:PX4:H54	4:A:389:PX4:H48	0.66	1.64	7	1
4:A:348:PX4:H60	4:A:355:PX4:H32	0.66	1.66	10	1
4:A:316:PX4:H19	4:A:334:PX4:H66	0.66	1.65	18	1
4:A:327:PX4:H39	4:A:360:PX4:H32	0.66	1.67	18	1
4:A:334:PX4:H26	4:A:341:PX4:H22	0.66	1.68	17	1
4:A:309:PX4:H67	4:A:383:PX4:H66	0.66	1.67	9	1
4:A:305:PX4:H38	4:A:322:PX4:H26	0.66	1.67	13	1
4:A:373:PX4:H20	4:A:380:PX4:H20	0.66	1.68	18	1
4:A:369:PX4:O8	4:A:391:PX4:H5	0.66	1.90	2	1
4:A:330:PX4:H15	4:A:331:PX4:H18	0.66	1.68	20	1
4:A:329:PX4:H27	4:A:347:PX4:H54	0.66	1.67	1	1
4:A:393:PX4:H58	4:A:408:PX4:H41	0.66	1.67	9	1
4:A:338:PX4:H32	4:A:346:PX4:H67	0.66	1.66	14	1
4:A:423:PX4:H17	4:A:424:PX4:H24	0.66	1.65	16	1
4:A:384:PX4:H60	4:A:393:PX4:H29	0.65	1.67	4	1
4:A:318:PX4:H28	4:A:319:PX4:H65	0.65	1.68	20	1
4:A:325:PX4:H63	4:A:341:PX4:H59	0.65	1.68	20	1
4:A:309:PX4:H27	4:A:366:PX4:H23	0.65	1.68	4	1
4:A:354:PX4:H22	4:A:356:PX4:H29	0.65	1.69	4	1
4:A:336:PX4:H62	4:A:366:PX4:H16	0.65	1.67	8	1
4:A:383:PX4:H45	4:A:412:PX4:H63	0.65	1.68	3	1
4:A:392:PX4:H17	4:A:409:PX4:H61	0.65	1.67	15	3
4:A:332:PX4:H20	4:A:340:PX4:H16	0.65	1.67	11	4
4:A:411:PX4:H36	4:A:419:PX4:H54	0.65	1.68	5	1
4:A:308:PX4:H17	4:A:318:PX4:H49	0.65	1.68	16	1
4:A:384:PX4:H68	4:A:386:PX4:H55	0.65	1.68	1	1
4:A:371:PX4:H69	4:A:389:PX4:H45	0.65	1.66	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:417:PX4:H57	4:A:427:PX4:H63	0.65	1.67	3	1
4:A:370:PX4:H17	4:A:419:PX4:H47	0.65	1.65	2	1
4:A:326:PX4:H14	4:A:343:PX4:H15	0.65	1.68	4	1
4:A:313:PX4:H60	4:A:348:PX4:H20	0.65	1.67	13	1
4:A:381:PX4:H46	4:A:385:PX4:H16	0.65	1.67	14	1
4:A:314:PX4:H28	4:A:354:PX4:H56	0.65	1.69	4	1
4:A:401:PX4:H64	4:A:410:PX4:H33	0.65	1.67	18	1
4:A:380:PX4:H29	4:A:381:PX4:H32	0.65	1.69	3	1
4:A:376:PX4:H51	4:A:430:PX4:H48	0.65	1.68	7	1
4:A:322:PX4:H29	4:A:332:PX4:H28	0.65	1.67	5	1
4:A:338:PX4:H66	4:A:400:PX4:H38	0.65	1.68	4	1
4:A:404:PX4:H21	4:A:405:PX4:H40	0.65	1.69	9	1
4:A:328:PX4:H62	4:A:332:PX4:H29	0.65	1.68	14	1
4:A:325:PX4:H39	4:A:382:PX4:H41	0.65	1.69	20	1
4:A:322:PX4:H21	4:A:332:PX4:H49	0.64	1.68	8	1
4:A:322:PX4:H39	4:A:340:PX4:H21	0.64	1.67	8	1
4:A:418:PX4:H67	4:A:420:PX4:H72	0.64	1.67	10	1
4:A:347:PX4:H20	4:A:355:PX4:H47	0.64	1.69	2	1
4:A:359:PX4:H28	4:A:407:PX4:H37	0.64	1.67	2	1
4:A:423:PX4:H55	4:A:426:PX4:H22	0.64	1.70	2	1
4:A:328:PX4:H60	4:A:328:PX4:H39	0.64	1.67	3	1
4:A:333:PX4:H39	4:A:389:PX4:H67	0.64	1.68	3	1
4:A:319:PX4:H43	4:A:407:PX4:H33	0.64	1.68	7	1
4:A:384:PX4:H25	4:A:400:PX4:H16	0.64	1.69	12	1
4:A:401:PX4:H69	4:A:417:PX4:H44	0.64	1.67	13	1
4:A:409:PX4:H21	4:A:416:PX4:H21	0.64	1.67	13	1
4:A:330:PX4:H68	4:A:331:PX4:H42	0.64	1.68	1	1
4:A:372:PX4:H46	4:A:428:PX4:H59	0.64	1.70	5	1
4:A:424:PX4:H34	4:A:424:PX4:H62	0.64	1.69	8	1
4:A:387:PX4:H33	4:A:387:PX4:H53	0.64	1.70	14	1
4:A:336:PX4:H67	4:A:360:PX4:H63	0.64	1.69	16	1
4:A:313:PX4:H46	4:A:348:PX4:H54	0.64	1.69	18	1
4:A:342:PX4:H36	4:A:351:PX4:H49	0.64	1.69	7	1
4:A:306:PX4:H24	4:A:313:PX4:H38	0.64	1.69	7	1
4:A:409:PX4:H19	4:A:410:PX4:H51	0.64	1.70	8	1
4:A:385:PX4:H47	4:A:387:PX4:H16	0.64	1.68	16	1
4:A:347:PX4:H68	4:A:351:PX4:H70	0.64	1.69	16	1
4:A:325:PX4:H44	4:A:382:PX4:H35	0.64	1.69	20	1
4:A:393:PX4:H48	4:A:394:PX4:C25	0.64	2.22	6	1
4:A:316:PX4:H47	4:A:325:PX4:H55	0.64	1.69	16	1
4:A:321:PX4:H16	4:A:330:PX4:H19	0.64	1.68	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:329:PX4:H37	4:A:336:PX4:H32	0.64	1.69	2	1
4:A:422:PX4:H19	4:A:431:PX4:H49	0.64	1.67	4	1
4:A:411:PX4:H18	4:A:427:PX4:H49	0.64	1.70	10	2
4:A:330:PX4:H53	4:A:331:PX4:H21	0.64	1.69	12	1
4:A:390:PX4:H26	4:A:398:PX4:H66	0.64	1.68	13	1
4:A:375:PX4:H28	4:A:413:PX4:H66	0.64	1.70	16	1
4:A:336:PX4:H43	4:A:399:PX4:H23	0.64	1.70	17	1
4:A:413:PX4:H65	4:A:383:PX4:H63	0.63	1.70	1	1
4:A:307:PX4:H64	4:A:396:PX4:H64	0.63	1.70	5	1
4:A:369:PX4:H64	4:A:391:PX4:H29	0.63	1.70	7	1
4:A:409:PX4:H18	4:A:416:PX4:H14	0.63	1.70	15	1
4:A:329:PX4:H28	4:A:338:PX4:H62	0.63	1.70	18	1
4:A:400:PX4:H49	4:A:408:PX4:H11	0.63	1.68	20	1
4:A:380:PX4:H17	4:A:381:PX4:H18	0.63	1.69	2	1
4:A:379:PX4:H38	4:A:427:PX4:H71	0.63	1.70	4	1
4:A:408:PX4:H51	4:A:415:PX4:H59	0.63	1.69	14	1
4:A:318:PX4:H62	4:A:340:PX4:H28	0.63	1.70	15	1
4:A:399:PX4:H37	4:A:408:PX4:H67	0.63	1.70	18	1
4:A:317:PX4:H27	4:A:318:PX4:H17	0.63	1.70	2	1
4:A:321:PX4:H33	4:A:331:PX4:H62	0.63	1.70	7	1
4:A:335:PX4:H21	4:A:342:PX4:H47	0.63	1.68	8	1
4:A:369:PX4:H67	4:A:370:PX4:H39	0.63	1.71	11	1
4:A:407:PX4:H1	4:A:417:PX4:H8	0.63	1.70	16	1
4:A:355:PX4:H59	4:A:356:PX4:H65	0.63	1.70	14	1
4:A:417:PX4:O2	4:A:419:PX4:H10	0.63	1.94	16	1
4:A:372:PX4:H36	4:A:421:PX4:H38	0.63	1.70	7	1
4:A:373:PX4:H65	4:A:380:PX4:H65	0.63	1.71	9	1
4:A:389:PX4:H54	4:A:398:PX4:H26	0.63	1.69	2	1
4:A:333:PX4:H18	4:A:356:PX4:H56	0.63	1.69	14	1
4:A:337:PX4:H19	4:A:344:PX4:H50	0.63	1.70	18	1
4:A:326:PX4:H52	4:A:343:PX4:H47	0.63	1.69	1	1
4:A:371:PX4:H68	4:A:412:PX4:H63	0.63	1.71	5	1
4:A:371:PX4:H68	4:A:388:PX4:H28	0.63	1.69	7	1
4:A:307:PX4:H56	4:A:310:PX4:H53	0.63	1.70	12	1
4:A:317:PX4:O6	4:A:318:PX4:H11	0.63	1.94	17	1
4:A:392:PX4:H25	4:A:393:PX4:H47	0.62	1.69	1	1
4:A:378:PX4:H65	4:A:411:PX4:H59	0.62	1.70	9	1
4:A:391:PX4:H24	4:A:425:PX4:H49	0.62	1.70	18	1
4:A:374:PX4:H51	4:A:385:PX4:H58	0.62	1.71	7	1
4:A:414:PX4:H34	4:A:431:PX4:H25	0.62	1.71	8	1
4:A:421:PX4:H58	4:A:428:PX4:H21	0.62	1.70	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:358:PX4:H70	4:A:408:PX4:H70	0.62	1.70	16	1
1:A:142:ALA:HB2	4:A:321:PX4:H7	0.62	1.70	3	1
1:A:116:TRP:CZ2	1:A:212:MET:HE2	0.62	2.29	5	1
4:A:337:PX4:H36	4:A:338:PX4:H44	0.62	1.72	9	1
4:A:308:PX4:H4	4:A:319:PX4:O3	0.62	1.94	11	1
4:A:345:PX4:H62	4:A:354:PX4:H30	0.62	1.72	19	1
4:A:336:PX4:H48	4:A:352:PX4:H13	0.62	1.71	9	1
4:A:374:PX4:H46	4:A:382:PX4:H16	0.62	1.72	13	1
4:A:403:PX4:H49	4:A:403:PX4:H27	0.62	1.72	20	1
4:A:380:PX4:H20	4:A:411:PX4:H49	0.62	1.71	7	1
4:A:371:PX4:H48	4:A:404:PX4:H18	0.62	1.72	16	1
4:A:384:PX4:H39	4:A:400:PX4:H33	0.62	1.70	19	1
4:A:406:PX4:H25	4:A:409:PX4:H34	0.61	1.72	3	1
4:A:423:PX4:H38	4:A:424:PX4:H34	0.61	1.71	3	1
4:A:305:PX4:H60	4:A:362:PX4:H59	0.61	1.69	4	1
4:A:404:PX4:H56	4:A:405:PX4:H49	0.61	1.72	13	2
4:A:350:PX4:H50	4:A:363:PX4:H51	0.61	1.70	15	1
4:A:327:PX4:H31	4:A:353:PX4:H65	0.61	1.69	18	1
4:A:347:PX4:H31	4:A:355:PX4:H26	0.61	1.71	19	1
4:A:396:PX4:H23	4:A:405:PX4:H56	0.61	1.70	19	1
4:A:348:PX4:H35	4:A:363:PX4:H54	0.61	1.70	8	1
4:A:387:PX4:H48	4:A:387:PX4:H32	0.61	1.72	14	1
4:A:333:PX4:H69	4:A:371:PX4:H70	0.61	1.70	19	1
4:A:402:PX4:H52	4:A:392:PX4:H54	0.61	1.73	1	1
4:A:371:PX4:H58	4:A:404:PX4:H28	0.61	1.72	4	1
4:A:394:PX4:H53	4:A:402:PX4:H30	0.61	1.71	6	1
4:A:403:PX4:H48	4:A:412:PX4:H17	0.61	1.72	14	1
4:A:324:PX4:H37	4:A:382:PX4:H37	0.61	1.72	16	1
4:A:375:PX4:H47	4:A:421:PX4:H27	0.61	1.72	16	1
4:A:319:PX4:H22	4:A:327:PX4:H65	0.61	1.72	17	1
4:A:368:PX4:H62	4:A:390:PX4:H34	0.61	1.71	5	1
4:A:369:PX4:H55	4:A:391:PX4:H22	0.61	1.72	11	1
4:A:402:PX4:H65	4:A:392:PX4:H66	0.61	1.73	1	1
4:A:405:PX4:H62	4:A:414:PX4:H29	0.61	1.71	6	1
4:A:401:PX4:H23	4:A:427:PX4:H31	0.61	1.72	7	1
4:A:385:PX4:H26	4:A:387:PX4:H24	0.61	1.71	13	1
4:A:345:PX4:H38	4:A:365:PX4:H33	0.61	1.72	12	1
4:A:359:PX4:H48	4:A:367:PX4:H23	0.61	1.72	2	1
4:A:386:PX4:H39	4:A:387:PX4:H36	0.61	1.71	2	1
4:A:386:PX4:O8	4:A:394:PX4:H13	0.61	1.96	12	1
4:A:325:PX4:H48	4:A:339:PX4:H61	0.61	1.71	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:354:PX4:H23	4:A:356:PX4:H57	0.61	1.72	20	1
4:A:361:PX4:H40	4:A:364:PX4:H37	0.61	1.72	20	1
4:A:371:PX4:H53	4:A:388:PX4:H17	0.61	1.72	6	1
4:A:342:PX4:H39	4:A:357:PX4:H43	0.61	1.73	12	1
4:A:320:PX4:H65	4:A:328:PX4:H57	0.61	1.71	13	1
4:A:308:PX4:H36	4:A:312:PX4:H41	0.61	1.73	18	1
4:A:329:PX4:H14	4:A:351:PX4:H15	0.61	1.73	1	1
4:A:342:PX4:H31	4:A:358:PX4:H39	0.61	1.73	2	1
4:A:423:PX4:H34	4:A:424:PX4:H34	0.61	1.71	19	1
4:A:307:PX4:H61	4:A:311:PX4:H28	0.60	1.72	7	1
4:A:307:PX4:H8	4:A:310:PX4:O3	0.60	1.95	10	1
4:A:338:PX4:H30	4:A:347:PX4:H56	0.60	1.73	17	1
4:A:341:PX4:H47	4:A:341:PX4:H28	0.60	1.73	17	1
4:A:377:PX4:H68	4:A:391:PX4:H58	0.60	1.73	10	1
4:A:373:PX4:H17	4:A:380:PX4:H49	0.60	1.74	12	1
4:A:307:PX4:H43	4:A:405:PX4:H57	0.60	1.73	13	1
4:A:368:PX4:H63	4:A:376:PX4:H43	0.60	1.71	15	1
4:A:347:PX4:H29	4:A:356:PX4:H63	0.60	1.73	16	1
4:A:419:PX4:H20	4:A:426:PX4:H16	0.60	1.73	2	5
4:A:308:PX4:H51	4:A:318:PX4:H25	0.60	1.73	3	1
4:A:419:PX4:H32	4:A:424:PX4:H38	0.60	1.73	9	1
4:A:383:PX4:H38	4:A:389:PX4:H49	0.60	1.71	10	1
4:A:394:PX4:H48	4:A:402:PX4:H27	0.60	1.73	12	1
4:A:377:PX4:H58	4:A:387:PX4:H22	0.60	1.72	16	1
4:A:313:PX4:H17	4:A:348:PX4:H52	0.60	1.74	1	1
4:A:369:PX4:H66	4:A:425:PX4:H69	0.60	1.74	1	1
4:A:385:PX4:H15	4:A:387:PX4:H19	0.60	1.71	6	1
4:A:354:PX4:H63	4:A:356:PX4:H42	0.60	1.71	9	1
4:A:321:PX4:H52	4:A:330:PX4:H28	0.60	1.72	15	1
4:A:308:PX4:H23	4:A:319:PX4:H48	0.60	1.72	16	1
4:A:388:PX4:O2	4:A:389:PX4:H8	0.60	1.96	7	1
4:A:378:PX4:H50	4:A:411:PX4:H15	0.60	1.73	8	1
4:A:341:PX4:H59	4:A:350:PX4:H58	0.60	1.74	7	1
4:A:325:PX4:O6	4:A:349:PX4:H9	0.60	1.97	11	1
4:A:335:PX4:H67	4:A:353:PX4:H38	0.60	1.72	15	1
4:A:318:PX4:H50	4:A:323:PX4:H49	0.60	1.72	6	1
4:A:342:PX4:H32	4:A:351:PX4:H53	0.60	1.71	16	1
4:A:377:PX4:H59	4:A:386:PX4:H20	0.60	1.72	16	1
4:A:336:PX4:H30	4:A:351:PX4:H60	0.60	1.74	18	1
4:A:352:PX4:H41	4:A:358:PX4:H57	0.60	1.74	18	1
4:A:373:PX4:H57	4:A:380:PX4:H55	0.60	1.72	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:324:PX4:H47	4:A:339:PX4:H15	0.60	1.73	9	1
4:A:387:PX4:H18	4:A:387:PX4:H1	0.60	1.72	12	2
4:A:379:PX4:H62	4:A:380:PX4:H37	0.59	1.74	2	1
4:A:309:PX4:H38	4:A:357:PX4:H70	0.59	1.74	4	1
4:A:392:PX4:H19	4:A:393:PX4:H49	0.59	1.74	4	1
4:A:370:PX4:H47	4:A:419:PX4:H17	0.59	1.74	17	2
4:A:309:PX4:H35	4:A:366:PX4:H42	0.59	1.72	18	1
4:A:385:PX4:H15	4:A:387:PX4:H20	0.59	1.72	1	2
4:A:354:PX4:H65	4:A:364:PX4:H39	0.59	1.71	7	1
4:A:384:PX4:H48	4:A:400:PX4:H19	0.59	1.74	7	1
4:A:377:PX4:H58	4:A:378:PX4:H31	0.59	1.71	13	1
4:A:375:PX4:H57	4:A:382:PX4:H50	0.59	1.73	20	1
4:A:323:PX4:H33	4:A:375:PX4:H43	0.59	1.74	1	1
4:A:348:PX4:H63	4:A:356:PX4:H32	0.59	1.74	6	1
4:A:317:PX4:H40	4:A:318:PX4:H53	0.59	1.72	11	1
4:A:378:PX4:H17	4:A:385:PX4:H19	0.59	1.74	13	1
4:A:394:PX4:H33	4:A:418:PX4:H26	0.59	1.74	15	1
4:A:351:PX4:H61	4:A:358:PX4:H66	0.59	1.72	17	1
4:A:348:PX4:H25	4:A:349:PX4:H22	0.59	1.73	3	1
4:A:311:PX4:H71	4:A:404:PX4:H69	0.59	1.73	5	1
4:A:382:PX4:H38	4:A:421:PX4:H30	0.59	1.75	5	1
4:A:418:PX4:H17	4:A:427:PX4:H23	0.59	1.73	16	2
4:A:321:PX4:H16	4:A:330:PX4:H21	0.59	1.75	11	1
4:A:375:PX4:H52	4:A:382:PX4:H19	0.59	1.74	14	1
4:A:332:PX4:H43	4:A:375:PX4:H43	0.59	1.74	15	1
4:A:345:PX4:H38	4:A:395:PX4:H42	0.59	1.74	18	1
4:A:405:PX4:H26	4:A:431:PX4:H27	0.59	1.74	18	1
4:A:369:PX4:H62	4:A:391:PX4:H33	0.59	1.74	5	1
4:A:337:PX4:H27	4:A:344:PX4:H51	0.59	1.73	6	1
4:A:397:PX4:H37	4:A:403:PX4:H36	0.59	1.75	14	1
4:A:418:PX4:H52	4:A:427:PX4:H33	0.59	1.73	15	1
4:A:375:PX4:H27	4:A:421:PX4:H41	0.59	1.73	16	1
4:A:413:PX4:H26	4:A:431:PX4:H17	0.59	1.73	16	1
4:A:305:PX4:H41	4:A:321:PX4:H67	0.59	1.75	6	1
4:A:342:PX4:H28	4:A:358:PX4:H35	0.59	1.74	11	1
4:A:314:PX4:H24	4:A:354:PX4:H46	0.59	1.73	19	1
4:A:371:PX4:H26	4:A:418:PX4:H50	0.59	1.73	10	1
4:A:383:PX4:H61	4:A:390:PX4:H31	0.59	1.75	14	1
4:A:313:PX4:H19	4:A:354:PX4:H23	0.59	1.74	19	1
4:A:313:PX4:H34	4:A:364:PX4:H34	0.59	1.73	3	1
4:A:424:PX4:H33	4:A:426:PX4:H55	0.59	1.72	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:325:PX4:H19	4:A:349:PX4:H53	0.59	1.73	9	1
4:A:312:PX4:H19	4:A:327:PX4:H54	0.59	1.75	19	1
4:A:379:PX4:H19	4:A:427:PX4:H20	0.58	1.75	2	1
4:A:413:PX4:H42	4:A:431:PX4:H28	0.58	1.75	4	1
4:A:306:PX4:H47	4:A:364:PX4:H33	0.58	1.74	9	1
4:A:344:PX4:H16	4:A:345:PX4:H17	0.58	1.74	9	1
4:A:420:PX4:H16	4:A:428:PX4:H47	0.58	1.75	16	2
4:A:369:PX4:H3	4:A:370:PX4:H18	0.58	1.74	5	1
4:A:401:PX4:H57	4:A:417:PX4:H48	0.58	1.74	6	1
4:A:378:PX4:H45	4:A:380:PX4:H35	0.58	1.75	10	1
4:A:368:PX4:H61	4:A:376:PX4:H56	0.58	1.73	17	1
4:A:339:PX4:H48	4:A:355:PX4:H60	0.58	1.73	6	1
4:A:320:PX4:H60	4:A:328:PX4:H56	0.58	1.75	7	1
4:A:369:PX4:H52	4:A:391:PX4:H22	0.58	1.75	10	1
4:A:382:PX4:H52	4:A:389:PX4:H54	0.58	1.74	11	1
4:A:333:PX4:H24	4:A:339:PX4:H53	0.58	1.73	14	1
4:A:409:PX4:H18	4:A:416:PX4:O6	0.58	1.98	18	1
4:A:337:PX4:H19	4:A:346:PX4:H28	0.58	1.74	2	1
4:A:384:PX4:H66	4:A:395:PX4:H35	0.58	1.74	2	1
4:A:305:PX4:H17	4:A:362:PX4:O7	0.58	1.99	5	1
4:A:398:PX4:H39	4:A:429:PX4:H41	0.58	1.74	5	1
4:A:389:PX4:H27	4:A:403:PX4:H49	0.58	1.76	8	1
4:A:313:PX4:H36	4:A:364:PX4:H33	0.58	1.76	10	1
4:A:313:PX4:H19	4:A:348:PX4:H65	0.58	1.73	11	1
4:A:343:PX4:H69	4:A:343:PX4:H37	0.58	1.74	15	1
4:A:392:PX4:H23	4:A:399:PX4:H21	0.58	1.73	15	1
4:A:402:PX4:H48	4:A:418:PX4:H26	0.58	1.74	17	1
4:A:344:PX4:H49	4:A:345:PX4:H49	0.58	1.75	18	1
4:A:312:PX4:H59	4:A:317:PX4:H61	0.58	1.74	19	1
4:A:376:PX4:H34	4:A:398:PX4:H72	0.58	1.76	4	1
4:A:369:PX4:H27	4:A:370:PX4:H34	0.58	1.76	11	1
4:A:341:PX4:H34	4:A:408:PX4:H66	0.58	1.76	13	1
4:A:357:PX4:H41	4:A:408:PX4:H58	0.58	1.75	14	1
4:A:401:PX4:H48	4:A:410:PX4:H19	0.58	1.75	15	1
4:A:346:PX4:H38	4:A:346:PX4:H62	0.58	1.76	19	1
4:A:413:PX4:H56	4:A:421:PX4:H17	0.58	1.74	4	1
4:A:419:PX4:H21	4:A:426:PX4:H20	0.58	1.76	7	1
4:A:362:PX4:H28	4:A:365:PX4:H49	0.58	1.76	14	1
4:A:332:PX4:H16	4:A:340:PX4:C10	0.58	2.29	20	1
4:A:374:PX4:H26	4:A:429:PX4:H34	0.58	1.75	3	1
4:A:370:PX4:H31	4:A:377:PX4:H35	0.58	1.76	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:337:PX4:H31	4:A:344:PX4:H55	0.58	1.76	6	1
4:A:327:PX4:H41	4:A:353:PX4:H41	0.58	1.74	8	1
4:A:392:PX4:H16	4:A:393:PX4:H15	0.58	1.75	8	1
4:A:372:PX4:H17	4:A:428:PX4:H22	0.58	1.74	14	1
4:A:373:PX4:H17	4:A:380:PX4:H46	0.58	1.75	17	1
4:A:375:PX4:H27	4:A:429:PX4:H20	0.58	1.76	18	1
4:A:325:PX4:H20	4:A:348:PX4:H24	0.58	1.76	13	2
4:A:386:PX4:H52	4:A:394:PX4:H2	0.58	1.74	5	1
4:A:327:PX4:H24	4:A:353:PX4:H31	0.58	1.75	19	1
4:A:311:PX4:H49	4:A:363:PX4:H31	0.57	1.76	1	1
4:A:368:PX4:H14	4:A:429:PX4:H14	0.57	1.75	6	2
4:A:338:PX4:H54	4:A:351:PX4:H24	0.57	1.74	7	1
4:A:353:PX4:H39	4:A:362:PX4:H68	0.57	1.76	20	1
4:A:423:PX4:H47	4:A:426:PX4:H17	0.57	1.75	3	1
4:A:392:PX4:H56	4:A:409:PX4:H54	0.57	1.76	9	1
4:A:400:PX4:H23	4:A:393:PX4:H27	0.57	1.75	1	1
4:A:401:PX4:H71	4:A:401:PX4:H39	0.57	1.75	2	1
4:A:357:PX4:H40	4:A:358:PX4:H37	0.57	1.75	8	1
4:A:377:PX4:H14	4:A:378:PX4:O1	0.57	1.99	9	1
4:A:334:PX4:H48	4:A:343:PX4:H19	0.57	1.77	10	1
4:A:357:PX4:H17	4:A:358:PX4:H20	0.57	1.75	14	1
4:A:379:PX4:H53	4:A:418:PX4:H55	0.57	1.76	16	1
4:A:312:PX4:H14	4:A:319:PX4:H15	0.57	1.76	19	1
4:A:394:PX4:H66	4:A:400:PX4:H34	0.57	1.75	8	1
4:A:338:PX4:H31	4:A:346:PX4:H29	0.57	1.75	18	1
4:A:374:PX4:H10	4:A:382:PX4:H18	0.57	1.75	20	1
4:A:378:PX4:H59	4:A:411:PX4:H24	0.57	1.76	20	1
4:A:407:PX4:H34	4:A:423:PX4:H28	0.57	1.75	20	1
4:A:330:PX4:H46	4:A:331:PX4:H7	0.57	1.75	1	1
4:A:305:PX4:H24	4:A:320:PX4:H59	0.57	1.77	10	1
4:A:328:PX4:H19	4:A:335:PX4:H16	0.57	1.76	15	2
4:A:391:PX4:H56	4:A:425:PX4:H67	0.57	1.76	14	1
4:A:369:PX4:H59	4:A:391:PX4:H28	0.57	1.77	20	1
4:A:417:PX4:H51	4:A:419:PX4:H49	0.57	1.77	4	1
4:A:326:PX4:H16	4:A:327:PX4:C26	0.57	2.29	9	1
4:A:418:PX4:H64	4:A:428:PX4:H66	0.57	1.77	16	1
4:A:328:PX4:H16	4:A:342:PX4:H57	0.57	1.75	17	1
4:A:378:PX4:H58	4:A:380:PX4:H32	0.57	1.76	8	1
4:A:333:PX4:H34	4:A:339:PX4:H55	0.57	1.76	9	1
4:A:357:PX4:H34	4:A:429:PX4:H39	0.57	1.76	9	1
4:A:338:PX4:H71	4:A:425:PX4:H66	0.57	1.77	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:381:PX4:C11	4:A:385:PX4:H54	0.57	2.26	16	1
4:A:389:PX4:H32	4:A:403:PX4:H29	0.57	1.77	2	1
4:A:331:PX4:H60	4:A:346:PX4:H65	0.57	1.76	7	1
4:A:377:PX4:H42	4:A:419:PX4:H51	0.57	1.77	11	1
4:A:390:PX4:H20	4:A:430:PX4:H55	0.57	1.75	17	1
4:A:317:PX4:H36	4:A:319:PX4:H56	0.57	1.76	1	1
4:A:352:PX4:H4	4:A:365:PX4:H15	0.57	1.76	1	1
4:A:372:PX4:H21	4:A:421:PX4:H48	0.57	1.77	2	1
4:A:397:PX4:H12	4:A:397:PX4:H14	0.57	1.76	8	1
4:A:368:PX4:H35	4:A:429:PX4:H64	0.57	1.77	12	1
4:A:319:PX4:H62	4:A:429:PX4:H71	0.57	1.76	13	1
4:A:331:PX4:H50	4:A:347:PX4:H18	0.57	1.75	15	1
4:A:315:PX4:H67	4:A:319:PX4:H32	0.57	1.75	19	1
4:A:313:PX4:H29	4:A:364:PX4:H40	0.57	1.77	2	1
4:A:388:PX4:H51	4:A:412:PX4:H46	0.57	1.76	6	1
4:A:414:PX4:H53	4:A:422:PX4:H25	0.57	1.75	14	1
4:A:325:PX4:H21	4:A:349:PX4:H46	0.57	1.75	16	1
4:A:392:PX4:H55	4:A:402:PX4:H63	0.57	1.76	17	1
4:A:372:PX4:H55	4:A:373:PX4:H34	0.57	1.76	19	1
4:A:330:PX4:H17	4:A:331:PX4:H20	0.56	1.78	3	1
4:A:342:PX4:H38	4:A:358:PX4:H21	0.56	1.77	17	1
4:A:391:PX4:H3	4:A:425:PX4:H14	0.56	1.77	17	1
4:A:318:PX4:H1	4:A:323:PX4:H18	0.56	1.77	8	2
4:A:418:PX4:H17	4:A:427:PX4:H19	0.56	1.75	8	1
4:A:338:PX4:H28	4:A:346:PX4:H56	0.56	1.76	11	1
4:A:337:PX4:H58	4:A:337:PX4:H25	0.56	1.76	12	1
4:A:320:PX4:H23	4:A:353:PX4:H65	0.56	1.76	3	1
4:A:351:PX4:H42	4:A:391:PX4:H71	0.56	1.76	3	1
4:A:348:PX4:H64	4:A:354:PX4:H33	0.56	1.76	9	1
4:A:308:PX4:H48	4:A:315:PX4:H51	0.56	1.76	11	1
4:A:338:PX4:H24	4:A:346:PX4:H24	0.56	1.77	15	1
4:A:330:PX4:H66	4:A:346:PX4:H64	0.56	1.78	18	1
4:A:309:PX4:H20	4:A:357:PX4:H54	0.56	1.78	20	1
4:A:326:PX4:H16	4:A:327:PX4:H50	0.56	1.77	9	1
4:A:305:PX4:H11	4:A:362:PX4:O6	0.56	2.00	10	1
4:A:311:PX4:H58	4:A:405:PX4:H36	0.56	1.77	13	1
4:A:335:PX4:O2	4:A:342:PX4:H4	0.56	2.00	14	1
4:A:404:PX4:H65	4:A:414:PX4:H33	0.56	1.77	14	1
4:A:412:PX4:H30	4:A:420:PX4:H63	0.56	1.76	14	1
4:A:414:PX4:H59	4:A:422:PX4:H47	0.56	1.78	15	1
4:A:341:PX4:H65	4:A:343:PX4:H45	0.56	1.75	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:377:PX4:H60	4:A:391:PX4:H49	0.56	1.77	5	1
4:A:392:PX4:H44	4:A:399:PX4:H39	0.56	1.77	6	1
4:A:416:PX4:H55	4:A:422:PX4:H52	0.56	1.77	9	1
4:A:334:PX4:H48	4:A:343:PX4:H20	0.56	1.76	12	1
4:A:354:PX4:O6	4:A:355:PX4:H17	0.56	2.00	20	1
4:A:355:PX4:H48	4:A:356:PX4:H50	0.56	1.78	2	1
4:A:338:PX4:H69	4:A:384:PX4:H34	0.56	1.77	4	1
4:A:321:PX4:H3	4:A:328:PX4:H11	0.56	1.77	8	1
4:A:318:PX4:H16	4:A:323:PX4:H14	0.56	1.78	9	1
4:A:332:PX4:H16	4:A:340:PX4:H19	0.56	1.77	20	1
4:A:320:PX4:H23	4:A:320:PX4:H58	0.56	1.77	1	1
4:A:310:PX4:H59	4:A:349:PX4:H21	0.56	1.78	2	1
4:A:413:PX4:H60	4:A:421:PX4:O6	0.56	2.00	4	1
4:A:393:PX4:H48	4:A:394:PX4:H49	0.56	1.78	6	1
4:A:371:PX4:H41	4:A:420:PX4:H35	0.56	1.77	11	1
4:A:411:PX4:H56	4:A:427:PX4:H60	0.56	1.77	2	1
4:A:372:PX4:H16	4:A:373:PX4:H25	0.56	1.76	4	1
4:A:361:PX4:H38	4:A:427:PX4:H38	0.56	1.77	5	1
4:A:377:PX4:H47	4:A:378:PX4:H24	0.56	1.78	12	1
4:A:417:PX4:O4	4:A:419:PX4:H8	0.56	2.00	4	1
4:A:308:PX4:H13	4:A:319:PX4:O2	0.56	2.01	11	1
4:A:404:PX4:H47	4:A:405:PX4:H16	0.56	1.78	11	1
4:A:413:PX4:H25	4:A:431:PX4:H52	0.56	1.78	12	1
4:A:377:PX4:H68	4:A:378:PX4:H35	0.56	1.77	14	1
4:A:376:PX4:H19	4:A:383:PX4:H22	0.56	1.77	17	1
4:A:414:PX4:H20	4:A:422:PX4:H37	0.56	1.78	20	1
4:A:409:PX4:H21	4:A:410:PX4:H46	0.56	1.79	2	1
4:A:391:PX4:C12	4:A:425:PX4:H48	0.56	2.31	4	1
4:A:346:PX4:H39	4:A:358:PX4:H70	0.56	1.77	5	1
4:A:328:PX4:O4	4:A:335:PX4:H16	0.56	2.01	17	1
4:A:426:PX4:H57	4:A:426:PX4:H25	0.56	1.78	19	1
4:A:324:PX4:H70	4:A:374:PX4:H66	0.55	1.78	11	1
4:A:357:PX4:H56	4:A:358:PX4:H65	0.55	1.76	20	1
4:A:308:PX4:H56	4:A:340:PX4:H45	0.55	1.78	1	1
4:A:374:PX4:H17	4:A:398:PX4:O1	0.55	2.02	2	1
4:A:396:PX4:H35	4:A:414:PX4:H38	0.55	1.77	2	1
4:A:373:PX4:H61	4:A:385:PX4:H45	0.55	1.78	3	1
4:A:319:PX4:H25	4:A:367:PX4:H34	0.55	1.78	9	1
4:A:309:PX4:O6	4:A:366:PX4:H17	0.55	2.02	15	2
4:A:413:PX4:H71	4:A:429:PX4:H21	0.55	1.78	13	1
1:A:48:LEU:HD23	1:A:53:MET:SD	0.55	2.41	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:331:PX4:H21	4:A:339:PX4:H23	0.55	1.78	11	1
4:A:423:PX4:H51	4:A:426:PX4:H57	0.55	1.77	11	1
4:A:316:PX4:H28	4:A:325:PX4:H60	0.55	1.76	13	1
4:A:372:PX4:H54	4:A:421:PX4:H56	0.55	1.78	17	1
4:A:315:PX4:H21	4:A:322:PX4:H48	0.55	1.78	4	1
4:A:370:PX4:H48	4:A:419:PX4:H17	0.55	1.78	13	1
4:A:391:PX4:H37	4:A:425:PX4:H34	0.55	1.78	13	1
4:A:386:PX4:H4	4:A:400:PX4:O1	0.55	2.01	17	1
4:A:396:PX4:H18	4:A:398:PX4:H55	0.55	1.77	20	1
4:A:403:PX4:H56	4:A:405:PX4:H56	0.55	1.76	3	1
4:A:399:PX4:H46	4:A:408:PX4:H59	0.55	1.78	8	1
4:A:396:PX4:H67	4:A:405:PX4:H72	0.55	1.79	11	1
4:A:409:PX4:H20	4:A:416:PX4:H16	0.55	1.78	12	3
4:A:387:PX4:H53	4:A:395:PX4:H21	0.55	1.78	16	1
4:A:374:PX4:H47	4:A:398:PX4:C10	0.55	2.28	2	1
4:A:385:PX4:H12	4:A:387:PX4:H16	0.55	1.77	2	1
4:A:357:PX4:H21	4:A:358:PX4:H27	0.55	1.78	4	1
4:A:308:PX4:H57	4:A:318:PX4:H46	0.55	1.78	7	1
4:A:323:PX4:H64	4:A:331:PX4:H45	0.55	1.78	7	1
4:A:348:PX4:H36	4:A:349:PX4:H65	0.55	1.76	10	1
4:A:371:PX4:H34	4:A:418:PX4:H68	0.55	1.78	10	1
4:A:305:PX4:H42	4:A:305:PX4:H61	0.55	1.77	11	1
4:A:360:PX4:H28	4:A:360:PX4:H67	0.55	1.78	14	1
4:A:320:PX4:H72	4:A:362:PX4:H64	0.55	1.78	17	1
4:A:326:PX4:H18	4:A:327:PX4:H49	0.55	1.76	18	1
4:A:371:PX4:H19	4:A:418:PX4:H48	0.55	1.79	19	1
4:A:357:PX4:H55	4:A:358:PX4:H61	0.55	1.78	20	1
4:A:419:PX4:H56	4:A:426:PX4:H32	0.55	1.79	2	1
4:A:429:PX4:H4	4:A:429:PX4:H19	0.55	1.77	2	1
4:A:375:PX4:H28	4:A:429:PX4:H24	0.55	1.77	4	1
4:A:384:PX4:H69	4:A:393:PX4:H39	0.55	1.78	4	1
4:A:329:PX4:H19	4:A:338:PX4:H47	0.55	1.79	8	1
4:A:388:PX4:H61	4:A:388:PX4:H34	0.55	1.79	12	1
4:A:382:PX4:H17	4:A:385:PX4:H58	0.55	1.77	13	1
4:A:318:PX4:H69	4:A:373:PX4:H40	0.55	1.77	14	1
4:A:404:PX4:H49	4:A:405:PX4:H52	0.55	1.77	16	1
4:A:375:PX4:H13	4:A:429:PX4:H16	0.55	1.77	17	1
4:A:378:PX4:C25	4:A:411:PX4:H54	0.55	2.28	18	1
4:A:389:PX4:H50	4:A:395:PX4:H52	0.55	1.79	1	1
4:A:384:PX4:H26	4:A:400:PX4:H23	0.55	1.79	3	1
4:A:327:PX4:H38	4:A:353:PX4:H37	0.55	1.77	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:329:PX4:H30	4:A:351:PX4:H24	0.55	1.79	9	1
4:A:322:PX4:O2	4:A:361:PX4:H4	0.55	2.02	15	1
4:A:369:PX4:H24	4:A:370:PX4:H27	0.55	1.77	16	1
4:A:378:PX4:H8	4:A:385:PX4:O2	0.55	2.02	20	1
4:A:328:PX4:H48	4:A:335:PX4:H22	0.55	1.79	1	1
4:A:392:PX4:H28	4:A:409:PX4:H58	0.55	1.79	8	1
4:A:329:PX4:H67	4:A:338:PX4:H62	0.55	1.78	9	1
4:A:369:PX4:H34	4:A:400:PX4:H27	0.55	1.78	16	1
4:A:346:PX4:H46	4:A:347:PX4:H17	0.55	1.78	13	1
4:A:312:PX4:H23	4:A:327:PX4:H55	0.55	1.77	14	1
4:A:378:PX4:H54	4:A:385:PX4:H28	0.55	1.79	15	1
4:A:348:PX4:H26	4:A:349:PX4:H30	0.55	1.79	17	1
4:A:318:PX4:H48	4:A:323:PX4:H53	0.55	1.79	20	1
4:A:318:PX4:H8	4:A:324:PX4:H23	0.54	1.79	7	1
4:A:384:PX4:H21	4:A:400:PX4:H26	0.54	1.79	8	1
4:A:312:PX4:H19	4:A:359:PX4:H15	0.54	1.78	9	1
4:A:320:PX4:H17	4:A:353:PX4:H49	0.54	1.79	12	1
4:A:324:PX4:H38	4:A:340:PX4:H39	0.54	1.79	15	1
4:A:369:PX4:H60	4:A:391:PX4:H25	0.54	1.79	16	1
4:A:328:PX4:H16	4:A:335:PX4:H18	0.54	1.79	1	1
4:A:372:PX4:H44	4:A:421:PX4:H37	0.54	1.80	5	1
4:A:317:PX4:H21	4:A:318:PX4:H5	0.54	1.78	6	1
4:A:335:PX4:H70	4:A:391:PX4:H66	0.54	1.79	7	1
4:A:374:PX4:H15	4:A:383:PX4:H49	0.54	1.79	16	1
4:A:393:PX4:H27	4:A:400:PX4:H27	0.54	1.80	2	1
4:A:308:PX4:H4	4:A:319:PX4:O2	0.54	2.03	6	1
4:A:377:PX4:H33	4:A:411:PX4:H34	0.54	1.79	8	1
4:A:368:PX4:H62	4:A:429:PX4:H30	0.54	1.77	12	1
4:A:321:PX4:H27	4:A:338:PX4:H49	0.54	1.80	15	1
4:A:332:PX4:H19	4:A:340:PX4:H16	0.54	1.78	18	1
4:A:391:PX4:H17	4:A:400:PX4:H47	0.54	1.80	11	2
4:A:357:PX4:H46	4:A:358:PX4:H48	0.54	1.80	7	1
4:A:396:PX4:H65	4:A:396:PX4:H33	0.54	1.79	14	2
4:A:312:PX4:H19	4:A:327:PX4:H57	0.54	1.78	17	1
4:A:379:PX4:H66	4:A:380:PX4:H42	0.54	1.80	3	1
4:A:320:PX4:H72	4:A:353:PX4:H70	0.54	1.79	7	1
4:A:371:PX4:H25	4:A:418:PX4:H53	0.54	1.78	14	1
4:A:376:PX4:H51	4:A:430:PX4:H57	0.54	1.79	8	1
4:A:383:PX4:H58	4:A:429:PX4:H31	0.54	1.80	12	1
4:A:332:PX4:H39	4:A:340:PX4:H29	0.54	1.80	15	1
4:A:355:PX4:H9	4:A:355:PX4:O2	0.54	2.02	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:377:PX4:H43	4:A:378:PX4:H71	0.54	1.80	7	1
4:A:329:PX4:H51	4:A:338:PX4:H25	0.54	1.80	14	1
4:A:424:PX4:H46	4:A:426:PX4:H54	0.54	1.78	16	1
4:A:324:PX4:H52	4:A:339:PX4:H17	0.54	1.78	18	1
4:A:371:PX4:H47	4:A:404:PX4:H20	0.54	1.80	2	1
4:A:414:PX4:H45	4:A:421:PX4:H49	0.54	1.80	9	1
4:A:320:PX4:C8	4:A:353:PX4:H16	0.54	2.21	10	1
4:A:388:PX4:H62	4:A:412:PX4:H64	0.54	1.80	11	1
4:A:396:PX4:H15	4:A:397:PX4:O1	0.54	2.02	14	1
4:A:350:PX4:H26	4:A:357:PX4:H20	0.54	1.80	15	1
4:A:392:PX4:H30	4:A:393:PX4:H17	0.54	1.80	20	1
4:A:370:PX4:H19	4:A:419:PX4:H47	0.54	1.79	1	1
4:A:316:PX4:O6	4:A:324:PX4:H19	0.54	2.03	4	1
4:A:364:PX4:H55	4:A:412:PX4:H43	0.54	1.78	7	1
4:A:338:PX4:H16	4:A:346:PX4:H47	0.54	1.80	12	1
4:A:357:PX4:H2	4:A:358:PX4:O6	0.54	2.03	12	1
4:A:312:PX4:H39	4:A:319:PX4:H16	0.54	1.79	16	1
4:A:321:PX4:H46	4:A:328:PX4:H48	0.54	1.78	17	1
4:A:324:PX4:H30	4:A:339:PX4:H62	0.54	1.78	18	1
4:A:384:PX4:H66	4:A:386:PX4:H47	0.54	1.79	18	1
4:A:407:PX4:H49	4:A:416:PX4:H13	0.54	1.78	18	1
4:A:401:PX4:H52	4:A:417:PX4:H49	0.54	1.80	1	1
4:A:371:PX4:H46	4:A:412:PX4:H16	0.54	1.80	1	1
4:A:341:PX4:H38	4:A:358:PX4:H35	0.54	1.79	3	1
4:A:328:PX4:H20	4:A:342:PX4:H55	0.54	1.79	5	1
4:A:376:PX4:H16	4:A:383:PX4:H47	0.54	1.79	20	2
4:A:399:PX4:H10	4:A:408:PX4:O4	0.54	2.02	7	1
4:A:316:PX4:H36	4:A:343:PX4:H39	0.54	1.79	9	1
4:A:369:PX4:H47	4:A:370:PX4:H21	0.54	1.80	15	2
4:A:404:PX4:H59	4:A:414:PX4:H19	0.54	1.78	19	1
1:A:84:TRP:CE2	1:A:162:PRO:HB3	0.53	2.38	16	1
4:A:306:PX4:H48	4:A:364:PX4:H27	0.53	1.78	18	1
4:A:390:PX4:H20	4:A:398:PX4:H62	0.53	1.79	19	1
4:A:326:PX4:H56	4:A:343:PX4:H51	0.53	1.79	1	1
1:A:142:ALA:O	4:A:335:PX4:H6	0.53	2.03	2	1
4:A:348:PX4:H41	4:A:397:PX4:H40	0.53	1.77	2	1
4:A:333:PX4:H61	4:A:348:PX4:H54	0.53	1.81	3	1
4:A:309:PX4:O2	4:A:366:PX4:H12	0.53	2.02	5	1
4:A:344:PX4:H59	4:A:344:PX4:H24	0.53	1.79	8	1
4:A:334:PX4:H56	4:A:341:PX4:H21	0.53	1.78	12	1
4:A:306:PX4:O2	4:A:313:PX4:H10	0.53	2.02	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:312:PX4:H48	4:A:326:PX4:H54	0.53	1.79	15	1
4:A:392:PX4:O2	4:A:409:PX4:H9	0.53	2.01	17	1
4:A:390:PX4:O3	4:A:390:PX4:H18	0.53	2.03	18	1
4:A:337:PX4:H50	4:A:355:PX4:H22	0.53	1.81	2	1
4:A:325:PX4:H23	4:A:356:PX4:H65	0.53	1.80	6	1
4:A:331:PX4:H48	4:A:355:PX4:H53	0.53	1.80	9	1
4:A:316:PX4:H70	4:A:390:PX4:H45	0.53	1.80	13	1
4:A:322:PX4:H20	4:A:332:PX4:H17	0.53	1.79	14	1
4:A:409:PX4:H59	4:A:416:PX4:H24	0.53	1.80	16	1
4:A:305:PX4:H62	4:A:362:PX4:H55	0.53	1.78	20	1
4:A:370:PX4:H36	4:A:425:PX4:H67	0.53	1.78	5	1
4:A:325:PX4:H8	4:A:350:PX4:O8	0.53	2.03	6	1
4:A:305:PX4:H53	4:A:305:PX4:H27	0.53	1.80	8	1
4:A:305:PX4:H39	4:A:330:PX4:H27	0.53	1.79	8	1
4:A:381:PX4:H62	4:A:385:PX4:H61	0.53	1.79	11	1
4:A:312:PX4:H69	4:A:383:PX4:H69	0.53	1.80	13	1
4:A:331:PX4:H60	4:A:347:PX4:H51	0.53	1.81	14	1
4:A:319:PX4:H34	4:A:407:PX4:H39	0.53	1.79	15	1
4:A:345:PX4:H67	4:A:354:PX4:H44	0.53	1.80	15	1
4:A:333:PX4:H17	4:A:339:PX4:H64	0.53	1.80	17	1
4:A:404:PX4:H22	4:A:412:PX4:H16	0.53	1.80	18	1
4:A:404:PX4:H14	4:A:412:PX4:O1	0.53	2.04	1	1
4:A:391:PX4:H39	4:A:425:PX4:H68	0.53	1.80	3	1
4:A:324:PX4:H60	4:A:340:PX4:H56	0.53	1.79	5	1
4:A:316:PX4:H19	4:A:324:PX4:H26	0.53	1.81	8	1
4:A:377:PX4:H48	4:A:386:PX4:H7	0.53	1.81	14	1
4:A:402:PX4:H63	4:A:418:PX4:H29	0.53	1.81	14	1
4:A:414:PX4:H51	4:A:431:PX4:H24	0.53	1.80	14	1
4:A:409:PX4:H17	4:A:410:PX4:H48	0.53	1.80	15	1
4:A:329:PX4:H48	4:A:351:PX4:H50	0.53	1.79	3	1
4:A:369:PX4:H32	4:A:378:PX4:H31	0.53	1.81	6	1
4:A:373:PX4:H65	4:A:380:PX4:H63	0.53	1.80	8	1
4:A:377:PX4:H35	4:A:411:PX4:H19	0.53	1.79	9	1
4:A:308:PX4:H23	4:A:359:PX4:H65	0.53	1.79	13	1
4:A:424:PX4:H54	4:A:430:PX4:H41	0.53	1.81	16	1
4:A:361:PX4:H60	4:A:427:PX4:H45	0.53	1.80	17	1
4:A:388:PX4:H54	4:A:395:PX4:H53	0.53	1.80	17	1
4:A:381:PX4:H28	4:A:382:PX4:H25	0.53	1.80	18	1
4:A:411:PX4:H32	4:A:417:PX4:H64	0.53	1.79	20	1
4:A:326:PX4:H32	4:A:353:PX4:H34	0.53	1.79	16	1
4:A:337:PX4:H16	4:A:354:PX4:C7	0.53	2.30	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:388:PX4:H1	4:A:412:PX4:H49	0.53	1.79	20	1
4:A:321:PX4:H49	4:A:330:PX4:H24	0.53	1.78	5	1
4:A:305:PX4:H53	4:A:362:PX4:H17	0.53	1.81	9	1
4:A:413:PX4:H60	4:A:429:PX4:H52	0.53	1.79	9	1
4:A:369:PX4:H49	4:A:370:PX4:H27	0.53	1.81	11	1
4:A:329:PX4:O6	4:A:351:PX4:H17	0.53	2.03	16	1
4:A:359:PX4:H16	4:A:367:PX4:H18	0.53	1.80	19	1
4:A:317:PX4:H29	4:A:323:PX4:H38	0.53	1.81	13	1
4:A:307:PX4:H4	4:A:363:PX4:O6	0.53	2.04	1	1
4:A:396:PX4:H25	4:A:405:PX4:H51	0.53	1.80	6	1
4:A:339:PX4:H21	4:A:355:PX4:H57	0.53	1.81	7	1
4:A:344:PX4:H60	4:A:366:PX4:H60	0.53	1.79	7	1
4:A:335:PX4:H23	4:A:342:PX4:H53	0.53	1.81	9	1
4:A:355:PX4:H24	4:A:356:PX4:H30	0.53	1.80	9	1
4:A:331:PX4:H62	4:A:339:PX4:H31	0.53	1.78	11	1
4:A:380:PX4:H30	4:A:385:PX4:H36	0.53	1.80	12	1
4:A:320:PX4:H49	4:A:362:PX4:H47	0.53	1.80	14	1
4:A:305:PX4:H68	4:A:321:PX4:H62	0.53	1.80	19	1
4:A:377:PX4:H51	4:A:386:PX4:H11	0.53	1.80	20	1
4:A:346:PX4:H52	4:A:347:PX4:H53	0.52	1.82	2	1
4:A:380:PX4:O6	4:A:381:PX4:H9	0.52	2.02	2	1
4:A:349:PX4:H60	4:A:350:PX4:H61	0.52	1.80	5	1
4:A:321:PX4:H59	4:A:328:PX4:H60	0.52	1.79	13	1
4:A:369:PX4:H56	4:A:425:PX4:H55	0.52	1.81	14	1
4:A:385:PX4:H60	4:A:386:PX4:H32	0.52	1.82	15	1
4:A:316:PX4:H38	4:A:375:PX4:H71	0.52	1.80	16	1
4:A:316:PX4:H43	4:A:318:PX4:H26	0.52	1.81	18	1
4:A:305:PX4:H33	4:A:321:PX4:H55	0.52	1.81	1	1
1:A:147:TYR:HB3	1:A:148:PRO:HD2	0.52	1.82	19	2
4:A:376:PX4:H35	4:A:383:PX4:H29	0.52	1.81	11	1
4:A:383:PX4:H28	4:A:389:PX4:H67	0.52	1.81	12	1
4:A:386:PX4:H19	4:A:395:PX4:H34	0.52	1.81	13	1
4:A:398:PX4:H66	4:A:403:PX4:C20	0.52	2.33	15	1
4:A:409:PX4:H30	4:A:417:PX4:H26	0.52	1.81	16	1
4:A:416:PX4:H56	4:A:422:PX4:H60	0.52	1.80	1	1
4:A:409:PX4:H30	4:A:410:PX4:H69	0.52	1.81	9	1
4:A:379:PX4:H58	4:A:380:PX4:H27	0.52	1.81	11	1
4:A:423:PX4:H25	4:A:424:PX4:H22	0.52	1.81	13	1
4:A:385:PX4:H51	4:A:387:PX4:C25	0.52	2.32	14	1
4:A:309:PX4:H20	4:A:366:PX4:H20	0.52	1.80	16	1
4:A:321:PX4:H43	4:A:338:PX4:H49	0.52	1.79	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:319:PX4:H34	4:A:312:PX4:H37	0.52	1.82	1	1
4:A:330:PX4:O2	4:A:339:PX4:H3	0.52	2.05	5	1
4:A:377:PX4:H16	4:A:387:PX4:H5	0.52	1.81	7	1
4:A:329:PX4:H72	4:A:344:PX4:H27	0.52	1.81	11	1
4:A:377:PX4:H65	4:A:384:PX4:H62	0.52	1.80	12	1
4:A:414:PX4:H56	4:A:422:PX4:H29	0.52	1.80	14	1
4:A:305:PX4:H33	4:A:328:PX4:H62	0.52	1.81	15	1
4:A:348:PX4:H19	4:A:349:PX4:H17	0.52	1.80	19	1
4:A:305:PX4:H37	4:A:328:PX4:H65	0.52	1.81	5	1
4:A:391:PX4:O6	4:A:400:PX4:H6	0.52	2.05	6	1
4:A:387:PX4:H56	4:A:395:PX4:H51	0.52	1.82	8	1
4:A:370:PX4:H27	4:A:377:PX4:H30	0.52	1.81	9	1
4:A:336:PX4:H20	4:A:358:PX4:H15	0.52	1.81	18	1
4:A:311:PX4:O8	4:A:364:PX4:H47	0.52	2.05	1	1
4:A:422:PX4:H16	4:A:431:PX4:H20	0.52	1.80	19	5
4:A:316:PX4:H18	4:A:324:PX4:H19	0.52	1.81	2	1
4:A:324:PX4:H50	4:A:339:PX4:H50	0.52	1.80	2	1
4:A:383:PX4:H37	4:A:389:PX4:H17	0.52	1.81	10	2
4:A:352:PX4:H20	4:A:360:PX4:H46	0.52	1.81	6	1
4:A:308:PX4:H21	4:A:315:PX4:H49	0.52	1.82	7	1
4:A:325:PX4:H23	4:A:349:PX4:H56	0.52	1.79	9	1
4:A:307:PX4:O6	4:A:348:PX4:H11	0.52	2.03	11	1
4:A:369:PX4:H6	4:A:419:PX4:O1	0.52	2.05	1	1
4:A:377:PX4:H49	4:A:378:PX4:H24	0.52	1.80	2	1
4:A:374:PX4:H57	4:A:398:PX4:H31	0.52	1.80	4	1
4:A:374:PX4:H50	4:A:382:PX4:H16	0.52	1.80	6	1
4:A:324:PX4:H32	4:A:413:PX4:H43	0.52	1.81	9	1
4:A:370:PX4:H43	4:A:411:PX4:H39	0.52	1.80	9	1
4:A:309:PX4:H33	4:A:366:PX4:H71	0.52	1.81	11	1
4:A:374:PX4:H18	4:A:382:PX4:H56	0.52	1.82	18	1
4:A:306:PX4:H66	4:A:364:PX4:H35	0.52	1.81	10	1
4:A:392:PX4:H47	4:A:409:PX4:H58	0.52	1.79	10	1
4:A:388:PX4:H28	4:A:394:PX4:H51	0.52	1.82	13	1
4:A:406:PX4:H36	4:A:409:PX4:H33	0.52	1.82	15	1
4:A:396:PX4:H30	4:A:414:PX4:H53	0.52	1.82	17	1
4:A:369:PX4:H65	4:A:400:PX4:H52	0.52	1.82	6	1
4:A:333:PX4:H21	4:A:356:PX4:H53	0.52	1.82	7	1
4:A:372:PX4:H15	4:A:428:PX4:H7	0.52	1.80	8	1
4:A:409:PX4:C8	4:A:416:PX4:H14	0.52	2.34	15	1
4:A:404:PX4:O8	4:A:420:PX4:H3	0.52	2.05	18	1
4:A:318:PX4:H17	4:A:323:PX4:H20	0.52	1.80	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:333:PX4:H40	4:A:355:PX4:H57	0.52	1.82	1	1
4:A:345:PX4:O6	4:A:352:PX4:H7	0.52	2.05	1	1
4:A:384:PX4:H56	4:A:395:PX4:H27	0.52	1.82	1	1
4:A:368:PX4:H29	4:A:413:PX4:H56	0.52	1.82	5	1
4:A:336:PX4:H54	4:A:344:PX4:H49	0.52	1.82	6	1
4:A:370:PX4:H26	4:A:370:PX4:H55	0.52	1.82	7	1
4:A:342:PX4:H27	4:A:351:PX4:H16	0.52	1.80	10	1
4:A:392:PX4:H16	4:A:393:PX4:H9	0.52	1.82	10	1
4:A:377:PX4:H59	4:A:384:PX4:H57	0.52	1.81	15	1
4:A:394:PX4:H46	4:A:402:PX4:H24	0.52	1.82	15	1
4:A:320:PX4:H21	4:A:353:PX4:H24	0.52	1.80	16	1
4:A:388:PX4:H49	4:A:389:PX4:H16	0.52	1.81	16	1
4:A:312:PX4:H23	4:A:359:PX4:H19	0.52	1.82	18	1
4:A:322:PX4:H22	4:A:332:PX4:H13	0.51	1.80	2	1
4:A:419:PX4:H36	4:A:424:PX4:H34	0.51	1.83	4	1
4:A:369:PX4:H72	4:A:391:PX4:H57	0.51	1.82	5	1
4:A:377:PX4:H21	4:A:378:PX4:H25	0.51	1.81	11	1
4:A:321:PX4:H31	4:A:335:PX4:H25	0.51	1.81	12	1
4:A:336:PX4:H8	4:A:344:PX4:O1	0.51	2.05	12	1
4:A:399:PX4:H51	4:A:408:PX4:H57	0.51	1.82	15	1
4:A:329:PX4:H19	4:A:338:PX4:H28	0.51	1.82	7	1
4:A:375:PX4:H9	4:A:421:PX4:O6	0.51	2.05	7	1
4:A:381:PX4:H25	4:A:382:PX4:H47	0.51	1.81	9	1
4:A:347:PX4:H8	4:A:355:PX4:O6	0.51	2.05	11	1
4:A:312:PX4:O2	4:A:327:PX4:H13	0.51	2.06	14	1
4:A:338:PX4:H36	4:A:346:PX4:H72	0.51	1.82	14	1
4:A:337:PX4:H51	4:A:346:PX4:H23	0.51	1.81	16	1
4:A:370:PX4:H21	4:A:425:PX4:H51	0.51	1.81	16	1
4:A:384:PX4:H49	4:A:386:PX4:H7	0.51	1.80	2	1
4:A:392:PX4:H62	4:A:418:PX4:H44	0.51	1.81	4	1
4:A:354:PX4:H21	4:A:355:PX4:H22	0.51	1.82	9	1
4:A:331:PX4:H57	4:A:347:PX4:H52	0.51	1.82	15	1
4:A:392:PX4:H54	4:A:409:PX4:H49	0.51	1.81	18	1
4:A:369:PX4:O8	4:A:391:PX4:H11	0.51	2.05	19	1
4:A:399:PX4:H44	4:A:402:PX4:H39	0.51	1.81	4	1
4:A:322:PX4:H24	4:A:332:PX4:H17	0.51	1.82	7	2
4:A:338:PX4:H3	4:A:342:PX4:O2	0.51	2.05	7	1
4:A:317:PX4:H24	4:A:323:PX4:H30	0.51	1.81	9	1
4:A:318:PX4:H1	4:A:323:PX4:O3	0.51	2.05	11	1
4:A:392:PX4:H26	4:A:399:PX4:H29	0.51	1.83	13	1
4:A:334:PX4:H62	4:A:341:PX4:H55	0.51	1.81	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:353:PX4:H66	4:A:362:PX4:H67	0.51	1.82	18	1
4:A:337:PX4:C7	4:A:354:PX4:H16	0.51	2.31	20	1
4:A:379:PX4:H53	4:A:380:PX4:H32	0.51	1.82	3	1
4:A:311:PX4:H16	4:A:364:PX4:H5	0.51	1.82	5	1
4:A:383:PX4:H49	4:A:429:PX4:H11	0.51	1.81	5	1
4:A:320:PX4:H30	4:A:321:PX4:H63	0.51	1.83	9	1
4:A:314:PX4:H44	4:A:345:PX4:H63	0.51	1.82	11	1
4:A:312:PX4:H39	4:A:327:PX4:H70	0.51	1.80	14	1
4:A:352:PX4:H29	4:A:416:PX4:H39	0.51	1.82	14	1
4:A:335:PX4:H54	4:A:342:PX4:H17	0.51	1.82	15	1
4:A:373:PX4:H24	4:A:380:PX4:H58	0.51	1.82	15	1
4:A:404:PX4:H43	4:A:405:PX4:H34	0.51	1.82	15	1
4:A:316:PX4:H51	4:A:317:PX4:H49	0.51	1.81	16	1
4:A:373:PX4:O2	4:A:373:PX4:H6	0.51	2.06	16	1
4:A:409:PX4:H17	4:A:410:PX4:H15	0.51	1.81	16	1
4:A:333:PX4:H36	4:A:339:PX4:H40	0.51	1.82	19	1
4:A:305:PX4:H17	4:A:362:PX4:H13	0.51	1.82	20	1
4:A:329:PX4:H27	4:A:347:PX4:C28	0.51	2.35	1	1
4:A:401:PX4:H47	4:A:410:PX4:H16	0.51	1.81	2	1
4:A:354:PX4:H62	4:A:364:PX4:H39	0.51	1.83	4	1
4:A:321:PX4:O2	4:A:332:PX4:H5	0.51	2.06	8	2
4:A:371:PX4:H9	4:A:420:PX4:O2	0.51	2.06	9	1
4:A:329:PX4:O6	4:A:338:PX4:H17	0.51	2.05	10	1
4:A:358:PX4:H32	4:A:399:PX4:H70	0.51	1.83	14	1
4:A:392:PX4:O2	4:A:409:PX4:H48	0.51	2.05	15	1
4:A:352:PX4:H31	4:A:366:PX4:H63	0.51	1.82	4	1
4:A:307:PX4:H46	4:A:310:PX4:H10	0.51	1.82	12	1
4:A:308:PX4:H39	4:A:322:PX4:H65	0.51	1.81	14	1
4:A:328:PX4:C10	4:A:335:PX4:H16	0.51	2.35	15	1
4:A:397:PX4:H30	4:A:403:PX4:H27	0.51	1.82	17	1
4:A:347:PX4:H26	4:A:355:PX4:H53	0.51	1.83	18	1
4:A:336:PX4:H30	4:A:352:PX4:H35	0.51	1.82	20	1
4:A:312:PX4:H45	4:A:423:PX4:H43	0.51	1.82	10	1
4:A:320:PX4:H59	4:A:328:PX4:H21	0.51	1.81	13	1
4:A:368:PX4:H25	4:A:424:PX4:H19	0.51	1.83	13	1
4:A:333:PX4:H22	4:A:356:PX4:H53	0.51	1.81	1	1
4:A:360:PX4:H28	4:A:426:PX4:H70	0.51	1.83	2	1
4:A:330:PX4:H46	4:A:331:PX4:H9	0.51	1.83	4	1
4:A:392:PX4:H55	4:A:410:PX4:H68	0.51	1.82	6	1
4:A:320:PX4:O8	4:A:362:PX4:H4	0.51	2.06	12	1
4:A:328:PX4:H23	4:A:342:PX4:H59	0.51	1.82	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:348:PX4:H49	4:A:356:PX4:H20	0.51	1.82	18	1
4:A:369:PX4:O1	4:A:377:PX4:H18	0.51	2.06	20	1
4:A:362:PX4:H34	4:A:362:PX4:H63	0.51	1.83	3	1
4:A:341:PX4:H50	4:A:350:PX4:H54	0.51	1.82	5	1
4:A:313:PX4:H33	4:A:354:PX4:H52	0.51	1.83	7	1
4:A:383:PX4:H38	4:A:389:PX4:C25	0.51	2.36	10	1
4:A:350:PX4:H44	4:A:390:PX4:H70	0.51	1.81	11	1
4:A:391:PX4:H27	4:A:400:PX4:H52	0.51	1.83	11	1
4:A:394:PX4:H7	4:A:395:PX4:H18	0.51	1.82	12	1
4:A:335:PX4:H55	4:A:342:PX4:H17	0.51	1.83	14	1
4:A:306:PX4:H61	4:A:313:PX4:H48	0.51	1.82	15	1
4:A:336:PX4:H28	4:A:358:PX4:H63	0.51	1.83	16	1
4:A:406:PX4:H32	4:A:409:PX4:H31	0.51	1.81	17	1
4:A:337:PX4:H70	4:A:402:PX4:H38	0.50	1.83	1	1
4:A:346:PX4:H13	4:A:347:PX4:O4	0.50	2.05	3	1
4:A:374:PX4:H30	4:A:398:PX4:H29	0.50	1.84	5	1
4:A:346:PX4:H32	4:A:346:PX4:H55	0.50	1.82	6	1
4:A:347:PX4:H19	4:A:355:PX4:H51	0.50	1.82	9	1
4:A:396:PX4:H39	4:A:414:PX4:H57	0.50	1.83	12	1
4:A:348:PX4:H58	4:A:356:PX4:H30	0.50	1.83	13	1
4:A:329:PX4:H49	4:A:336:PX4:H5	0.50	1.82	15	1
4:A:420:PX4:H26	4:A:428:PX4:H31	0.50	1.83	20	1
4:A:369:PX4:H40	4:A:391:PX4:H64	0.50	1.82	3	1
4:A:324:PX4:C22	4:A:375:PX4:H39	0.50	2.36	4	1
4:A:398:PX4:H10	4:A:398:PX4:O6	0.50	2.06	6	1
4:A:346:PX4:H20	4:A:347:PX4:H14	0.50	1.81	9	1
4:A:321:PX4:H51	4:A:335:PX4:H23	0.50	1.83	13	1
4:A:408:PX4:H48	4:A:415:PX4:H55	0.50	1.84	14	1
4:A:394:PX4:H61	4:A:394:PX4:H28	0.50	1.82	16	1
4:A:337:PX4:H20	4:A:345:PX4:H55	0.50	1.84	18	1
4:A:349:PX4:H55	4:A:363:PX4:H49	0.50	1.83	20	1
4:A:393:PX4:H50	4:A:402:PX4:H27	0.50	1.82	6	1
4:A:329:PX4:H16	4:A:351:PX4:H47	0.50	1.83	7	2
4:A:407:PX4:H32	4:A:423:PX4:H34	0.50	1.82	7	1
4:A:305:PX4:O6	4:A:362:PX4:H15	0.50	2.06	8	1
4:A:347:PX4:H43	4:A:388:PX4:H66	0.50	1.84	13	1
4:A:327:PX4:H36	4:A:360:PX4:H29	0.50	1.83	18	1
4:A:328:PX4:H44	4:A:342:PX4:H63	0.50	1.81	19	1
4:A:413:PX4:H50	4:A:431:PX4:H51	0.50	1.84	4	1
4:A:377:PX4:H33	4:A:378:PX4:H30	0.50	1.83	6	1
4:A:362:PX4:H71	4:A:411:PX4:H40	0.50	1.83	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:317:PX4:H41	4:A:382:PX4:H43	0.50	1.83	11	1
4:A:409:PX4:H28	4:A:416:PX4:H55	0.50	1.82	15	1
4:A:375:PX4:H15	4:A:421:PX4:H20	0.50	1.82	16	1
4:A:307:PX4:H60	4:A:310:PX4:H20	0.50	1.83	18	1
4:A:386:PX4:H72	4:A:402:PX4:H38	0.50	1.81	19	1
4:A:391:PX4:H28	4:A:425:PX4:H52	0.50	1.84	2	1
4:A:311:PX4:H64	4:A:412:PX4:H34	0.50	1.83	5	1
4:A:313:PX4:H5	4:A:348:PX4:O2	0.50	2.07	8	1
4:A:407:PX4:H18	4:A:422:PX4:H15	0.50	1.84	12	1
4:A:424:PX4:H46	4:A:430:PX4:H19	0.50	1.83	15	1
4:A:397:PX4:H41	4:A:398:PX4:H34	0.50	1.83	16	1
4:A:413:PX4:H17	4:A:421:PX4:H46	0.50	1.83	17	1
4:A:419:PX4:H71	4:A:419:PX4:H45	0.50	1.84	19	1
4:A:312:PX4:H16	4:A:319:PX4:H53	0.50	1.82	20	1
4:A:349:PX4:H66	4:A:382:PX4:H45	0.50	1.84	20	1
4:A:404:PX4:H71	4:A:422:PX4:H45	0.50	1.83	20	1
4:A:424:PX4:O8	4:A:430:PX4:H4	0.50	2.07	3	1
1:A:194:HIS:CD2	1:A:198:HIS:CE1	0.50	3.00	8	4
4:A:331:PX4:O6	4:A:339:PX4:H4	0.50	2.06	6	1
4:A:372:PX4:O2	4:A:428:PX4:H4	0.50	2.07	10	1
4:A:339:PX4:H16	4:A:355:PX4:H55	0.50	1.82	11	1
4:A:308:PX4:H71	4:A:340:PX4:H27	0.50	1.83	16	1
4:A:338:PX4:H31	4:A:346:PX4:H34	0.50	1.84	20	1
4:A:345:PX4:H38	4:A:352:PX4:H72	0.50	1.84	20	1
4:A:307:PX4:H42	4:A:403:PX4:H55	0.50	1.82	1	1
4:A:333:PX4:H29	4:A:355:PX4:H62	0.50	1.84	1	1
4:A:374:PX4:O6	4:A:398:PX4:H14	0.50	2.07	2	1
4:A:321:PX4:H52	4:A:335:PX4:H25	0.50	1.83	5	1
4:A:344:PX4:H34	4:A:345:PX4:H66	0.50	1.82	5	1
4:A:359:PX4:H59	4:A:364:PX4:H50	0.50	1.83	5	1
4:A:399:PX4:H26	4:A:408:PX4:H14	0.50	1.82	7	1
4:A:417:PX4:H64	4:A:427:PX4:H69	0.50	1.83	8	1
4:A:305:PX4:H56	4:A:361:PX4:H62	0.50	1.84	14	1
4:A:349:PX4:H41	4:A:405:PX4:H67	0.50	1.84	14	1
4:A:384:PX4:H67	4:A:393:PX4:H42	0.50	1.84	17	1
4:A:413:PX4:H37	4:A:428:PX4:H31	0.50	1.82	17	1
4:A:318:PX4:H60	4:A:403:PX4:H44	0.50	1.83	18	1
4:A:382:PX4:H26	4:A:385:PX4:H53	0.50	1.83	18	1
4:A:351:PX4:H42	4:A:391:PX4:H44	0.50	1.83	19	1
4:A:387:PX4:H63	4:A:395:PX4:H56	0.50	1.84	11	1
4:A:318:PX4:O2	4:A:324:PX4:H7	0.50	2.07	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:384:PX4:H57	4:A:400:PX4:H27	0.50	1.84	14	1
4:A:307:PX4:H5	4:A:310:PX4:H48	0.50	1.84	15	1
4:A:388:PX4:H35	4:A:393:PX4:H40	0.50	1.82	15	1
4:A:338:PX4:O2	4:A:346:PX4:H3	0.50	2.06	16	1
4:A:318:PX4:H26	4:A:319:PX4:H48	0.50	1.83	17	1
4:A:320:PX4:H51	4:A:327:PX4:H26	0.50	1.84	18	1
4:A:380:PX4:H69	4:A:381:PX4:H38	0.50	1.84	2	1
4:A:406:PX4:H8	4:A:409:PX4:H16	0.50	1.82	2	1
4:A:360:PX4:H60	4:A:360:PX4:H28	0.50	1.84	3	1
4:A:332:PX4:O8	4:A:340:PX4:H13	0.50	2.06	5	1
4:A:373:PX4:H57	4:A:382:PX4:H34	0.50	1.84	6	1
4:A:370:PX4:C9	4:A:419:PX4:H47	0.50	2.37	9	1
4:A:334:PX4:H56	4:A:341:PX4:H16	0.50	1.83	10	1
4:A:326:PX4:H28	4:A:343:PX4:H63	0.50	1.84	12	1
4:A:379:PX4:H52	4:A:381:PX4:H23	0.50	1.84	17	1
4:A:328:PX4:H25	4:A:342:PX4:H50	0.50	1.83	19	1
4:A:334:PX4:H48	4:A:343:PX4:H23	0.50	1.82	20	1
4:A:329:PX4:H25	4:A:342:PX4:H33	0.49	1.84	3	1
4:A:399:PX4:H16	4:A:408:PX4:H46	0.49	1.84	10	2
4:A:373:PX4:H32	4:A:421:PX4:H28	0.49	1.83	5	1
4:A:338:PX4:H24	4:A:347:PX4:H61	0.49	1.84	8	1
4:A:410:PX4:H53	4:A:417:PX4:H42	0.49	1.81	8	1
4:A:348:PX4:H66	4:A:356:PX4:H35	0.49	1.82	12	1
4:A:401:PX4:H60	4:A:417:PX4:H54	0.49	1.83	12	1
4:A:388:PX4:H32	4:A:402:PX4:H32	0.49	1.83	13	1
4:A:316:PX4:H32	4:A:325:PX4:H67	0.49	1.83	17	1
4:A:343:PX4:H50	4:A:353:PX4:H26	0.49	1.84	17	1
4:A:390:PX4:H15	4:A:399:PX4:O1	0.49	2.07	20	1
4:A:378:PX4:H48	4:A:380:PX4:H21	0.49	1.83	1	1
4:A:312:PX4:H50	4:A:317:PX4:H20	0.49	1.82	5	1
4:A:347:PX4:H44	4:A:355:PX4:H35	0.49	1.82	8	1
4:A:371:PX4:H72	4:A:388:PX4:H37	0.49	1.82	11	1
4:A:359:PX4:H69	4:A:364:PX4:H61	0.49	1.84	1	1
4:A:413:PX4:H33	4:A:428:PX4:H33	0.49	1.83	4	1
4:A:320:PX4:H49	4:A:362:PX4:H46	0.49	1.83	13	1
4:A:376:PX4:H42	4:A:390:PX4:H42	0.49	1.84	15	1
4:A:370:PX4:H16	4:A:425:PX4:H46	0.49	1.83	16	1
4:A:347:PX4:H70	4:A:378:PX4:H70	0.49	1.82	18	1
4:A:348:PX4:H28	4:A:349:PX4:H22	0.49	1.84	19	1
4:A:371:PX4:H63	4:A:412:PX4:H20	0.49	1.84	4	1
4:A:349:PX4:H43	4:A:415:PX4:H43	0.49	1.82	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:333:PX4:H21	4:A:356:PX4:H61	0.49	1.84	9	1
4:A:330:PX4:H56	4:A:330:PX4:H30	0.49	1.84	13	2
4:A:388:PX4:H70	4:A:395:PX4:H72	0.49	1.83	15	1
4:A:384:PX4:H22	4:A:400:PX4:H49	0.49	1.83	16	1
4:A:321:PX4:H22	4:A:330:PX4:O5	0.49	2.08	20	1
4:A:347:PX4:H39	4:A:355:PX4:H69	0.49	1.85	20	1
4:A:313:PX4:O6	4:A:356:PX4:H23	0.49	2.07	3	1
4:A:321:PX4:H22	4:A:335:PX4:H23	0.49	1.85	7	1
4:A:348:PX4:H19	4:A:349:PX4:H9	0.49	1.85	7	1
4:A:319:PX4:H56	4:A:359:PX4:H23	0.49	1.84	9	1
4:A:313:PX4:H33	4:A:314:PX4:H22	0.49	1.84	10	1
4:A:381:PX4:H30	4:A:381:PX4:H59	0.49	1.85	11	1
4:A:310:PX4:H27	4:A:311:PX4:H35	0.49	1.84	1	1
4:A:377:PX4:H50	4:A:391:PX4:H46	0.49	1.83	1	1
4:A:364:PX4:H60	4:A:414:PX4:H43	0.49	1.84	6	1
4:A:423:PX4:H48	4:A:426:PX4:H47	0.49	1.85	11	1
4:A:333:PX4:H50	4:A:348:PX4:H48	0.49	1.84	13	1
4:A:311:PX4:O2	4:A:364:PX4:H9	0.49	2.08	15	1
4:A:338:PX4:H59	4:A:351:PX4:H32	0.49	1.83	15	1
4:A:391:PX4:H29	4:A:425:PX4:H63	0.49	1.83	18	1
4:A:387:PX4:H59	4:A:395:PX4:H59	0.49	1.85	19	1
4:A:323:PX4:H47	4:A:339:PX4:H5	0.49	1.84	4	1
4:A:369:PX4:H9	4:A:370:PX4:O2	0.49	2.07	5	1
4:A:346:PX4:H64	4:A:347:PX4:H30	0.49	1.83	7	1
4:A:305:PX4:H8	4:A:365:PX4:O6	0.49	2.06	8	1
4:A:381:PX4:H22	4:A:395:PX4:C27	0.49	2.33	9	1
4:A:371:PX4:H64	4:A:403:PX4:H53	0.49	1.83	11	1
4:A:339:PX4:O1	4:A:355:PX4:H11	0.49	2.08	19	2
4:A:388:PX4:H23	4:A:412:PX4:H61	0.49	1.83	14	1
4:A:376:PX4:H16	4:A:383:PX4:H48	0.49	1.83	19	1
4:A:420:PX4:H7	4:A:420:PX4:H15	0.49	1.85	1	1
4:A:309:PX4:H28	4:A:406:PX4:H41	0.49	1.85	2	1
4:A:384:PX4:O6	4:A:408:PX4:H8	0.49	2.08	2	1
4:A:392:PX4:H50	4:A:409:PX4:H58	0.49	1.84	2	1
4:A:337:PX4:H55	4:A:354:PX4:H19	0.49	1.84	3	2
4:A:404:PX4:H9	4:A:420:PX4:O3	0.49	2.07	4	1
4:A:371:PX4:H52	4:A:404:PX4:H25	0.49	1.85	5	1
4:A:386:PX4:O1	4:A:387:PX4:H9	0.49	2.08	7	1
4:A:399:PX4:H61	4:A:425:PX4:H35	0.49	1.84	7	1
4:A:377:PX4:H46	4:A:386:PX4:H12	0.49	1.85	8	1
4:A:329:PX4:H40	4:A:338:PX4:H60	0.49	1.84	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:337:PX4:H62	4:A:339:PX4:H37	0.49	1.85	17	1
4:A:392:PX4:H36	4:A:393:PX4:H60	0.49	1.85	17	1
4:A:337:PX4:H19	4:A:344:PX4:C26	0.49	2.36	18	1
4:A:425:PX4:H17	4:A:430:PX4:H14	0.49	1.85	3	2
4:A:313:PX4:H26	4:A:354:PX4:C26	0.49	2.25	5	1
4:A:376:PX4:H52	4:A:430:PX4:H17	0.49	1.83	5	1
4:A:309:PX4:H26	4:A:366:PX4:H50	0.49	1.84	7	1
4:A:377:PX4:O8	4:A:387:PX4:H8	0.49	2.08	7	1
4:A:402:PX4:H66	4:A:418:PX4:H42	0.49	1.84	8	1
4:A:316:PX4:H38	4:A:317:PX4:H18	0.49	1.84	9	1
4:A:305:PX4:H36	4:A:361:PX4:H62	0.49	1.85	10	1
4:A:326:PX4:H49	4:A:343:PX4:H17	0.49	1.84	12	1
4:A:314:PX4:H45	4:A:365:PX4:H59	0.49	1.84	15	1
4:A:320:PX4:H32	4:A:321:PX4:H56	0.49	1.83	18	1
4:A:330:PX4:H55	4:A:331:PX4:H51	0.49	1.83	18	1
4:A:332:PX4:H29	4:A:340:PX4:H48	0.49	1.84	20	1
4:A:305:PX4:H16	4:A:328:PX4:H6	0.49	1.85	1	1
4:A:399:PX4:O6	4:A:408:PX4:H9	0.49	2.07	1	1
4:A:362:PX4:H19	4:A:365:PX4:H16	0.49	1.85	6	1
4:A:389:PX4:H3	4:A:403:PX4:H2	0.49	1.85	8	1
4:A:354:PX4:H35	4:A:355:PX4:H69	0.49	1.84	9	1
4:A:390:PX4:H36	4:A:429:PX4:H38	0.49	1.85	10	1
4:A:418:PX4:H17	4:A:427:PX4:H22	0.49	1.85	11	1
4:A:381:PX4:H48	4:A:387:PX4:H31	0.49	1.85	12	1
4:A:336:PX4:H51	4:A:366:PX4:H50	0.49	1.85	13	1
4:A:329:PX4:H54	4:A:336:PX4:H19	0.49	1.84	14	1
4:A:330:PX4:H71	4:A:335:PX4:H42	0.48	1.84	1	1
4:A:318:PX4:H67	4:A:332:PX4:H60	0.48	1.83	3	1
4:A:338:PX4:H18	4:A:338:PX4:H13	0.48	1.85	4	1
4:A:373:PX4:H61	4:A:380:PX4:H59	0.48	1.85	8	1
4:A:369:PX4:H20	4:A:369:PX4:H53	0.48	1.84	11	1
4:A:360:PX4:H20	4:A:367:PX4:H49	0.48	1.85	12	1
4:A:399:PX4:H2	4:A:408:PX4:H6	0.48	1.84	13	1
4:A:388:PX4:H57	4:A:412:PX4:H54	0.48	1.83	15	1
4:A:350:PX4:H61	4:A:363:PX4:H61	0.48	1.84	16	1
4:A:353:PX4:H48	4:A:362:PX4:H50	0.48	1.84	16	1
4:A:401:PX4:O6	4:A:418:PX4:H10	0.48	2.08	16	1
4:A:316:PX4:H49	4:A:341:PX4:H61	0.48	1.85	8	1
4:A:336:PX4:H41	4:A:384:PX4:H37	0.48	1.84	10	1
4:A:369:PX4:H48	4:A:425:PX4:H55	0.48	1.84	10	1
4:A:339:PX4:H53	4:A:355:PX4:H56	0.48	1.84	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:344:PX4:H40	4:A:401:PX4:H39	0.48	1.84	7	1
4:A:396:PX4:H30	4:A:414:PX4:H55	0.48	1.84	7	1
4:A:390:PX4:H22	4:A:430:PX4:H52	0.48	1.86	8	1
4:A:396:PX4:H23	4:A:396:PX4:H57	0.48	1.84	8	1
4:A:305:PX4:O8	4:A:362:PX4:H11	0.48	2.08	9	1
4:A:320:PX4:H38	4:A:328:PX4:H36	0.48	1.84	10	1
4:A:379:PX4:H62	4:A:380:PX4:H38	0.48	1.86	10	1
4:A:370:PX4:O1	4:A:426:PX4:H10	0.48	2.09	12	1
4:A:403:PX4:H48	4:A:412:PX4:H57	0.48	1.85	16	1
4:A:306:PX4:H23	4:A:314:PX4:H49	0.48	1.85	17	1
4:A:400:PX4:H8	4:A:425:PX4:H23	0.48	1.85	1	1
4:A:319:PX4:H26	4:A:327:PX4:H61	0.48	1.85	2	1
4:A:306:PX4:H24	4:A:314:PX4:H19	0.48	1.84	3	1
4:A:359:PX4:H20	4:A:367:PX4:H9	0.48	1.85	3	1
4:A:306:PX4:H4	4:A:354:PX4:O3	0.48	2.07	8	1
4:A:388:PX4:H18	4:A:395:PX4:O7	0.48	2.08	10	1
4:A:396:PX4:O2	4:A:414:PX4:H7	0.48	2.09	10	1
4:A:381:PX4:O8	4:A:382:PX4:H11	0.48	2.08	11	2
4:A:391:PX4:H19	4:A:425:PX4:H23	0.48	1.85	11	1
1:A:93:ILE:HD12	1:A:93:ILE:N	0.48	2.24	18	1
4:A:307:PX4:H12	4:A:307:PX4:H15	0.48	1.84	19	1
4:A:384:PX4:H35	4:A:400:PX4:H30	0.48	1.84	19	1
4:A:320:PX4:H49	4:A:362:PX4:H50	0.48	1.83	20	1
4:A:425:PX4:C13	4:A:430:PX4:H21	0.48	2.36	20	1
4:A:375:PX4:H56	4:A:382:PX4:H26	0.48	1.85	2	1
4:A:326:PX4:C6	4:A:343:PX4:H15	0.48	2.37	4	1
4:A:399:PX4:O6	4:A:408:PX4:H3	0.48	2.07	9	1
4:A:348:PX4:H4	4:A:349:PX4:O1	0.48	2.09	11	1
4:A:322:PX4:H48	4:A:332:PX4:H55	0.48	1.84	14	1
4:A:334:PX4:C9	4:A:334:PX4:H3	0.48	2.39	14	1
4:A:317:PX4:H52	4:A:343:PX4:H25	0.48	1.85	16	1
4:A:374:PX4:H10	4:A:374:PX4:O4	0.48	2.07	18	1
4:A:336:PX4:H19	4:A:351:PX4:H57	0.48	1.85	17	2
4:A:391:PX4:H31	4:A:400:PX4:H49	0.48	1.85	3	1
4:A:314:PX4:H18	4:A:361:PX4:H18	0.48	1.85	8	1
4:A:334:PX4:H40	4:A:425:PX4:H41	0.48	1.85	10	1
4:A:309:PX4:H27	4:A:416:PX4:H43	0.48	1.86	14	1
4:A:383:PX4:H34	4:A:398:PX4:H17	0.48	1.84	17	1
4:A:318:PX4:H60	4:A:340:PX4:H23	0.48	1.85	19	1
4:A:402:PX4:H72	4:A:410:PX4:H35	0.48	1.85	19	1
4:A:305:PX4:H16	4:A:321:PX4:H55	0.48	1.84	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:336:PX4:H46	4:A:344:PX4:H12	0.48	1.85	20	1
4:A:407:PX4:H28	4:A:423:PX4:H30	0.48	1.85	7	1
4:A:324:PX4:H63	4:A:339:PX4:H57	0.48	1.86	9	1
4:A:369:PX4:H63	4:A:391:PX4:H51	0.48	1.86	10	1
4:A:369:PX4:H14	4:A:370:PX4:H21	0.48	1.86	17	1
4:A:333:PX4:H11	4:A:339:PX4:O8	0.48	2.09	18	1
4:A:392:PX4:P1	4:A:409:PX4:H11	0.48	2.48	19	1
1:A:98:ARG:NH2	4:A:331:PX4:O1	0.48	2.46	20	1
4:A:412:PX4:H67	4:A:389:PX4:H41	0.48	1.85	1	1
4:A:379:PX4:H37	4:A:427:PX4:H68	0.48	1.86	2	1
4:A:406:PX4:H10	4:A:416:PX4:O6	0.48	2.08	3	1
4:A:387:PX4:O6	4:A:387:PX4:H7	0.48	2.09	6	1
4:A:320:PX4:H42	4:A:351:PX4:H42	0.48	1.84	7	1
4:A:308:PX4:H19	4:A:315:PX4:H49	0.48	1.86	8	1
4:A:321:PX4:H49	4:A:332:PX4:H19	0.48	1.85	14	1
4:A:331:PX4:H64	4:A:347:PX4:H60	0.48	1.85	15	1
4:A:335:PX4:H64	4:A:341:PX4:H29	0.48	1.84	15	1
4:A:327:PX4:H55	4:A:360:PX4:H24	0.48	1.86	18	1
4:A:355:PX4:H25	4:A:356:PX4:H47	0.48	1.84	19	1
4:A:374:PX4:H27	4:A:383:PX4:H54	0.48	1.84	9	1
4:A:420:PX4:H22	4:A:428:PX4:H22	0.48	1.84	16	1
4:A:306:PX4:H17	4:A:313:PX4:H24	0.48	1.85	17	1
4:A:334:PX4:H59	4:A:341:PX4:H27	0.48	1.86	17	1
4:A:382:PX4:H58	4:A:395:PX4:H60	0.48	1.85	1	1
1:A:22:PHE:CE2	1:A:66:ARG:CZ	0.48	2.96	3	1
4:A:361:PX4:H58	4:A:362:PX4:H32	0.48	1.86	3	1
4:A:370:PX4:H60	4:A:426:PX4:H32	0.48	1.84	5	1
4:A:344:PX4:H30	4:A:345:PX4:H30	0.48	1.86	6	1
4:A:348:PX4:H35	4:A:363:PX4:C28	0.48	2.37	8	1
4:A:394:PX4:H66	4:A:400:PX4:C17	0.48	2.39	8	1
4:A:372:PX4:H45	4:A:429:PX4:H60	0.48	1.86	14	1
4:A:352:PX4:H47	4:A:365:PX4:H25	0.48	1.86	15	1
4:A:329:PX4:H68	4:A:337:PX4:H23	0.48	1.85	16	1
4:A:375:PX4:H5	4:A:421:PX4:O6	0.48	2.09	17	1
4:A:325:PX4:H16	4:A:349:PX4:H51	0.48	1.85	19	1
4:A:326:PX4:H17	4:A:326:PX4:H10	0.47	1.86	1	1
4:A:369:PX4:H57	4:A:391:PX4:H46	0.47	1.86	2	1
4:A:330:PX4:H68	4:A:342:PX4:H72	0.47	1.83	4	1
4:A:371:PX4:H69	4:A:389:PX4:H59	0.47	1.86	6	1
4:A:324:PX4:H71	4:A:331:PX4:H34	0.47	1.86	10	1
4:A:381:PX4:H66	4:A:385:PX4:H64	0.47	1.85	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:413:PX4:H37	4:A:428:PX4:H32	0.47	1.86	12	1
4:A:407:PX4:H29	4:A:423:PX4:H20	0.47	1.86	16	1
4:A:381:PX4:H25	4:A:382:PX4:H48	0.47	1.85	18	1
4:A:384:PX4:H6	4:A:393:PX4:O2	0.47	2.08	20	1
4:A:335:PX4:H20	4:A:342:PX4:H46	0.47	1.85	1	1
4:A:366:PX4:H35	4:A:409:PX4:H40	0.47	1.86	1	1
4:A:312:PX4:H49	4:A:318:PX4:H19	0.47	1.86	3	1
4:A:383:PX4:H30	4:A:389:PX4:H17	0.47	1.85	3	1
4:A:306:PX4:H27	4:A:314:PX4:H47	0.47	1.84	4	1
4:A:308:PX4:H37	4:A:315:PX4:H23	0.47	1.84	6	1
4:A:376:PX4:H64	4:A:430:PX4:H67	0.47	1.86	7	1
4:A:424:PX4:H46	4:A:430:PX4:H23	0.47	1.86	10	1
4:A:425:PX4:H10	4:A:425:PX4:H17	0.47	1.86	12	1
4:A:348:PX4:H19	4:A:349:PX4:C9	0.47	2.39	14	1
4:A:420:PX4:H22	4:A:428:PX4:C11	0.47	2.39	16	1
4:A:327:PX4:H59	4:A:360:PX4:H27	0.47	1.85	18	1
4:A:321:PX4:H40	4:A:347:PX4:H63	0.47	1.86	19	1
4:A:346:PX4:H42	4:A:346:PX4:H66	0.47	1.85	19	1
4:A:360:PX4:H60	4:A:360:PX4:C14	0.47	2.39	3	1
4:A:384:PX4:H56	4:A:393:PX4:H25	0.47	1.86	4	1
4:A:404:PX4:H25	4:A:412:PX4:H19	0.47	1.86	4	1
4:A:331:PX4:H50	4:A:347:PX4:H24	0.47	1.85	8	1
4:A:380:PX4:H52	4:A:385:PX4:H46	0.47	1.87	9	1
4:A:329:PX4:H13	4:A:338:PX4:O6	0.47	2.09	12	1
4:A:330:PX4:H28	4:A:331:PX4:H32	0.47	1.85	14	1
4:A:341:PX4:H51	4:A:350:PX4:H14	0.47	1.87	15	1
4:A:362:PX4:H20	4:A:365:PX4:H16	0.47	1.87	16	1
4:A:348:PX4:H12	4:A:349:PX4:H22	0.47	1.84	18	1
4:A:366:PX4:O6	4:A:366:PX4:H12	0.47	2.08	18	1
4:A:370:PX4:H49	4:A:424:PX4:H59	0.47	1.85	18	1
4:A:389:PX4:O6	4:A:403:PX4:H7	0.47	2.10	3	1
4:A:309:PX4:H68	4:A:357:PX4:H33	0.47	1.86	4	1
4:A:305:PX4:H27	4:A:362:PX4:H54	0.47	1.86	6	1
4:A:363:PX4:H43	4:A:405:PX4:H42	0.47	1.85	6	1
4:A:336:PX4:H43	4:A:400:PX4:H62	0.47	1.84	9	1
4:A:341:PX4:H45	4:A:408:PX4:H65	0.47	1.86	14	1
4:A:406:PX4:O2	4:A:415:PX4:H14	0.47	2.09	16	1
4:A:318:PX4:H47	4:A:323:PX4:H49	0.47	1.85	19	1
4:A:386:PX4:H36	4:A:387:PX4:H57	0.47	1.86	19	1
4:A:370:PX4:H47	4:A:419:PX4:H19	0.47	1.85	20	1
4:A:399:PX4:H31	4:A:409:PX4:H53	0.47	1.87	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:321:PX4:H37	4:A:347:PX4:H58	0.47	1.86	10	1
4:A:413:PX4:O6	4:A:428:PX4:H11	0.47	2.10	10	1
4:A:328:PX4:H25	4:A:335:PX4:H57	0.47	1.85	11	1
4:A:332:PX4:H29	4:A:340:PX4:H26	0.47	1.87	15	1
4:A:329:PX4:H17	4:A:338:PX4:H17	0.47	1.86	16	1
4:A:401:PX4:H30	4:A:410:PX4:H39	0.47	1.86	16	1
4:A:337:PX4:H23	4:A:337:PX4:H57	0.47	1.85	3	2
4:A:403:PX4:H52	4:A:405:PX4:H53	0.47	1.85	3	1
4:A:349:PX4:H21	4:A:363:PX4:H17	0.47	1.86	6	1
4:A:327:PX4:H40	4:A:343:PX4:H63	0.47	1.87	8	1
4:A:369:PX4:H49	4:A:370:PX4:H26	0.47	1.86	8	1
4:A:376:PX4:H21	4:A:383:PX4:H21	0.47	1.85	8	1
4:A:342:PX4:H14	4:A:342:PX4:H13	0.47	1.86	10	1
4:A:374:PX4:C10	4:A:383:PX4:H16	0.47	2.37	10	1
4:A:394:PX4:H64	4:A:400:PX4:H38	0.47	1.87	13	1
4:A:357:PX4:H38	4:A:408:PX4:H62	0.47	1.87	14	1
4:A:305:PX4:H47	4:A:362:PX4:H52	0.47	1.85	19	1
4:A:311:PX4:H56	4:A:315:PX4:H31	0.47	1.85	20	1
4:A:321:PX4:H34	4:A:330:PX4:H57	0.47	1.87	20	1
4:A:344:PX4:O6	4:A:344:PX4:H4	0.47	2.09	20	1
4:A:361:PX4:H36	4:A:364:PX4:H33	0.47	1.87	20	1
4:A:339:PX4:H44	4:A:381:PX4:H66	0.47	1.86	1	1
4:A:405:PX4:H15	4:A:414:PX4:O4	0.47	2.09	11	2
4:A:314:PX4:O2	4:A:354:PX4:H11	0.47	2.09	3	1
4:A:316:PX4:H50	4:A:317:PX4:H50	0.47	1.86	5	1
4:A:419:PX4:H35	4:A:426:PX4:H58	0.47	1.86	5	1
4:A:306:PX4:H60	4:A:313:PX4:H57	0.47	1.85	7	1
4:A:320:PX4:H61	4:A:362:PX4:H58	0.47	1.85	7	1
4:A:380:PX4:H24	4:A:411:PX4:H52	0.47	1.86	7	1
4:A:321:PX4:H31	4:A:335:PX4:H38	0.47	1.86	8	1
4:A:318:PX4:H43	4:A:422:PX4:H67	0.47	1.87	9	1
4:A:328:PX4:H19	4:A:342:PX4:H61	0.47	1.86	10	1
4:A:375:PX4:H9	4:A:429:PX4:O4	0.47	2.08	10	1
4:A:387:PX4:H58	4:A:388:PX4:H68	0.47	1.87	10	1
4:A:361:PX4:H43	4:A:411:PX4:H64	0.47	1.87	11	1
4:A:406:PX4:H38	4:A:417:PX4:H33	0.47	1.86	11	1
4:A:337:PX4:H47	4:A:346:PX4:H23	0.47	1.86	12	1
4:A:375:PX4:H16	4:A:382:PX4:H24	0.47	1.85	13	1
4:A:377:PX4:H54	4:A:378:PX4:H27	0.47	1.86	13	1
4:A:310:PX4:H68	4:A:397:PX4:H44	0.47	1.86	14	1
4:A:392:PX4:H20	4:A:393:PX4:H46	0.47	1.86	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:392:PX4:H68	4:A:394:PX4:H45	0.47	1.86	14	1
4:A:392:PX4:H55	4:A:402:PX4:H51	0.47	1.84	14	1
4:A:320:PX4:H16	4:A:328:PX4:H52	0.47	1.87	15	1
4:A:340:PX4:H69	4:A:387:PX4:H70	0.47	1.86	15	1
4:A:333:PX4:H11	4:A:339:PX4:H48	0.47	1.86	16	1
4:A:392:PX4:H57	4:A:402:PX4:H19	0.47	1.87	16	1
4:A:382:PX4:H35	4:A:421:PX4:H30	0.47	1.87	17	1
4:A:377:PX4:H69	4:A:378:PX4:H35	0.47	1.87	18	1
4:A:406:PX4:H17	4:A:415:PX4:H21	0.47	1.87	18	1
4:A:383:PX4:H19	4:A:398:PX4:H16	0.47	1.86	19	1
4:A:411:PX4:H17	4:A:411:PX4:H10	0.47	1.86	19	1
4:A:411:PX4:H18	4:A:427:PX4:H58	0.47	1.87	19	1
4:A:336:PX4:H52	4:A:352:PX4:H53	0.47	1.85	20	1
4:A:379:PX4:H28	4:A:401:PX4:H24	0.47	1.86	20	1
4:A:322:PX4:H20	4:A:332:PX4:O7	0.47	2.09	1	1
4:A:309:PX4:H24	4:A:366:PX4:H53	0.47	1.87	5	1
4:A:368:PX4:H28	4:A:429:PX4:H51	0.47	1.87	5	1
4:A:403:PX4:H58	4:A:412:PX4:H55	0.47	1.86	9	1
4:A:375:PX4:H15	4:A:375:PX4:H6	0.47	1.87	11	1
4:A:410:PX4:H25	4:A:423:PX4:H71	0.47	1.85	11	1
4:A:322:PX4:H45	4:A:332:PX4:H58	0.47	1.87	12	1
4:A:344:PX4:H23	4:A:345:PX4:H26	0.47	1.86	17	1
4:A:338:PX4:H40	4:A:346:PX4:H35	0.47	1.86	19	1
4:A:321:PX4:H52	4:A:328:PX4:H47	0.47	1.87	20	1
4:A:330:PX4:H32	4:A:332:PX4:H23	0.47	1.87	20	1
4:A:309:PX4:H64	4:A:363:PX4:H59	0.47	1.86	2	1
4:A:337:PX4:H52	4:A:356:PX4:H25	0.47	1.85	3	1
4:A:377:PX4:H53	4:A:395:PX4:H41	0.47	1.87	5	1
4:A:321:PX4:H41	4:A:338:PX4:H60	0.47	1.87	7	1
4:A:378:PX4:H13	4:A:385:PX4:O2	0.47	2.09	8	1
4:A:306:PX4:H7	4:A:313:PX4:O2	0.47	2.10	9	1
4:A:329:PX4:H36	4:A:358:PX4:H44	0.47	1.85	9	1
4:A:419:PX4:H23	4:A:426:PX4:H48	0.47	1.85	9	1
4:A:310:PX4:H50	4:A:363:PX4:H16	0.47	1.86	10	1
4:A:381:PX4:H27	4:A:385:PX4:H37	0.47	1.86	10	1
4:A:385:PX4:H59	4:A:387:PX4:H53	0.47	1.85	12	1
4:A:342:PX4:H20	4:A:351:PX4:O5	0.47	2.09	16	1
4:A:374:PX4:O6	4:A:398:PX4:H6	0.47	2.10	16	1
4:A:429:PX4:H61	4:A:431:PX4:H65	0.47	1.87	16	1
4:A:417:PX4:O8	4:A:419:PX4:H11	0.47	2.08	17	1
4:A:307:PX4:H17	4:A:363:PX4:O6	0.47	2.10	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:312:PX4:H65	4:A:319:PX4:H68	0.47	1.86	20	1
4:A:401:PX4:H16	4:A:427:PX4:H48	0.47	1.86	20	1
4:A:403:PX4:H16	4:A:412:PX4:H8	0.47	1.86	1	1
4:A:318:PX4:H17	4:A:323:PX4:H24	0.47	1.85	3	1
4:A:323:PX4:O2	4:A:324:PX4:H11	0.47	2.10	4	1
4:A:347:PX4:H22	4:A:355:PX4:H48	0.47	1.87	5	1
4:A:357:PX4:H17	4:A:358:PX4:H21	0.47	1.87	5	1
4:A:344:PX4:H56	4:A:366:PX4:H67	0.47	1.87	6	1
4:A:329:PX4:H20	4:A:347:PX4:H55	0.47	1.85	7	1
4:A:331:PX4:H17	4:A:339:PX4:H14	0.47	1.85	7	1
4:A:334:PX4:H22	4:A:353:PX4:H37	0.47	1.86	7	1
4:A:392:PX4:H27	4:A:393:PX4:H61	0.47	1.85	8	1
4:A:369:PX4:H21	4:A:377:PX4:H46	0.47	1.85	12	1
4:A:337:PX4:H45	4:A:388:PX4:H36	0.47	1.86	13	1
4:A:391:PX4:O7	4:A:400:PX4:H17	0.47	2.10	13	1
4:A:348:PX4:H16	4:A:349:PX4:H10	0.47	1.85	17	2
4:A:321:PX4:H25	4:A:335:PX4:H32	0.47	1.87	18	1
4:A:321:PX4:H32	4:A:330:PX4:H64	0.47	1.87	19	1
4:A:322:PX4:H66	4:A:372:PX4:H39	0.46	1.87	1	1
4:A:388:PX4:O6	4:A:394:PX4:H7	0.46	2.10	2	1
4:A:390:PX4:H20	4:A:430:PX4:H51	0.46	1.86	2	1
4:A:334:PX4:H27	4:A:351:PX4:H28	0.46	1.85	4	1
4:A:383:PX4:H57	4:A:429:PX4:H32	0.46	1.86	6	1
4:A:397:PX4:O8	4:A:398:PX4:H56	0.46	2.10	11	1
4:A:359:PX4:H19	4:A:367:PX4:H20	0.46	1.86	13	1
4:A:396:PX4:H48	4:A:422:PX4:H46	0.46	1.86	13	1
4:A:309:PX4:H67	4:A:363:PX4:H62	0.46	1.87	14	1
4:A:424:PX4:H21	4:A:425:PX4:H55	0.46	1.86	15	1
4:A:333:PX4:H34	4:A:339:PX4:H39	0.46	1.87	16	1
4:A:369:PX4:H14	4:A:370:PX4:C11	0.46	2.40	17	1
4:A:377:PX4:H47	4:A:395:PX4:H39	0.46	1.86	19	1
4:A:325:PX4:H23	4:A:333:PX4:H22	0.46	1.86	20	1
4:A:402:PX4:H22	4:A:392:PX4:H53	0.46	1.87	1	1
4:A:325:PX4:H22	4:A:333:PX4:H47	0.46	1.87	6	1
4:A:393:PX4:H51	4:A:402:PX4:H27	0.46	1.87	8	1
4:A:316:PX4:H20	4:A:325:PX4:H57	0.46	1.86	9	1
4:A:369:PX4:H69	4:A:393:PX4:H43	0.46	1.88	9	1
4:A:307:PX4:H16	4:A:311:PX4:H14	0.46	1.87	19	2
4:A:313:PX4:H62	4:A:403:PX4:H35	0.46	1.87	11	1
4:A:361:PX4:H28	4:A:427:PX4:H44	0.46	1.87	17	1
4:A:369:PX4:H55	4:A:400:PX4:H59	0.46	1.86	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:361:PX4:H30	4:A:365:PX4:H61	0.46	1.86	2	1
4:A:386:PX4:H57	4:A:394:PX4:H46	0.46	1.86	3	1
4:A:306:PX4:H17	4:A:313:PX4:H22	0.46	1.87	7	1
4:A:382:PX4:H38	4:A:421:PX4:H32	0.46	1.86	10	1
4:A:392:PX4:H50	4:A:409:PX4:H59	0.46	1.86	11	1
4:A:318:PX4:H69	4:A:373:PX4:H70	0.46	1.87	13	1
4:A:372:PX4:H48	4:A:421:PX4:H53	0.46	1.87	13	1
4:A:430:PX4:H2	4:A:430:PX4:O6	0.46	2.10	15	1
4:A:416:PX4:H53	4:A:417:PX4:H21	0.46	1.86	16	1
4:A:336:PX4:H66	4:A:366:PX4:H14	0.46	1.88	17	1
4:A:309:PX4:H53	4:A:357:PX4:H55	0.46	1.87	18	1
4:A:418:PX4:H19	4:A:427:PX4:H22	0.46	1.87	18	1
4:A:333:PX4:H41	4:A:347:PX4:H33	0.46	1.86	1	1
4:A:406:PX4:H36	4:A:408:PX4:H31	0.46	1.88	2	1
4:A:340:PX4:H69	4:A:382:PX4:H65	0.46	1.87	11	1
4:A:406:PX4:H25	4:A:416:PX4:H22	0.46	1.86	11	1
4:A:358:PX4:H40	4:A:399:PX4:H70	0.46	1.88	12	1
4:A:320:PX4:H16	4:A:362:PX4:H5	0.46	1.87	14	1
4:A:343:PX4:H45	4:A:390:PX4:H44	0.46	1.88	15	1
4:A:413:PX4:H20	4:A:421:PX4:H51	0.46	1.87	15	1
4:A:399:PX4:H25	4:A:408:PX4:H14	0.46	1.88	17	1
4:A:306:PX4:H31	4:A:314:PX4:H47	0.46	1.88	19	1
4:A:305:PX4:H29	4:A:321:PX4:H51	0.46	1.88	1	1
4:A:326:PX4:H41	4:A:424:PX4:H43	0.46	1.87	2	1
4:A:324:PX4:H24	4:A:325:PX4:H50	0.46	1.87	3	1
4:A:373:PX4:H42	4:A:421:PX4:H39	0.46	1.87	4	1
4:A:383:PX4:H45	4:A:388:PX4:H54	0.46	1.88	5	1
4:A:307:PX4:H60	4:A:311:PX4:H32	0.46	1.86	6	1
4:A:321:PX4:H26	4:A:347:PX4:H46	0.46	1.87	10	1
4:A:391:PX4:H53	4:A:400:PX4:H55	0.46	1.88	12	2
4:A:305:PX4:H18	4:A:362:PX4:H3	0.46	1.87	13	1
4:A:308:PX4:H22	4:A:359:PX4:H59	0.46	1.88	13	1
4:A:314:PX4:H31	4:A:354:PX4:H57	0.46	1.86	13	1
4:A:318:PX4:H49	4:A:340:PX4:H5	0.46	1.87	15	1
4:A:316:PX4:H31	4:A:316:PX4:H53	0.46	1.88	18	1
4:A:313:PX4:H38	4:A:306:PX4:H27	0.46	1.87	1	1
4:A:337:PX4:H23	4:A:344:PX4:H51	0.46	1.86	1	1
4:A:389:PX4:H42	4:A:404:PX4:H69	0.46	1.88	4	1
4:A:378:PX4:H8	4:A:380:PX4:O1	0.46	2.11	9	1
4:A:372:PX4:H72	4:A:379:PX4:H70	0.46	1.88	12	1
4:A:393:PX4:H29	4:A:394:PX4:H59	0.46	1.87	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:401:PX4:H14	4:A:410:PX4:O2	0.46	2.10	13	1
4:A:392:PX4:C10	4:A:393:PX4:H46	0.46	2.41	14	1
4:A:315:PX4:H51	4:A:318:PX4:H56	0.46	1.87	15	1
4:A:357:PX4:H54	4:A:358:PX4:H45	0.46	1.86	16	1
4:A:328:PX4:O2	4:A:335:PX4:H14	0.46	2.10	17	1
4:A:334:PX4:H38	4:A:400:PX4:H64	0.46	1.87	1	1
4:A:336:PX4:O6	4:A:358:PX4:H17	0.46	2.11	5	1
4:A:337:PX4:H48	4:A:346:PX4:H56	0.46	1.85	5	1
4:A:401:PX4:H22	4:A:410:PX4:H19	0.46	1.87	6	1
4:A:351:PX4:H70	4:A:357:PX4:H47	0.46	1.86	7	1
4:A:321:PX4:H14	4:A:330:PX4:O5	0.46	2.10	15	1
4:A:336:PX4:H72	4:A:365:PX4:H45	0.46	1.87	15	1
4:A:419:PX4:H10	4:A:426:PX4:O2	0.46	2.11	15	1
4:A:372:PX4:H19	4:A:421:PX4:H16	0.46	1.87	16	1
4:A:369:PX4:H52	4:A:425:PX4:H51	0.46	1.88	17	1
4:A:380:PX4:H2	4:A:385:PX4:O6	0.46	2.09	18	1
4:A:305:PX4:H59	4:A:305:PX4:H33	0.46	1.87	19	1
4:A:323:PX4:H58	4:A:340:PX4:H22	0.46	1.88	19	1
4:A:420:PX4:H26	4:A:428:PX4:H27	0.46	1.87	20	1
4:A:384:PX4:H52	4:A:400:PX4:H20	0.46	1.88	2	1
4:A:348:PX4:H38	4:A:349:PX4:H30	0.46	1.86	4	1
4:A:335:PX4:H58	4:A:353:PX4:H42	0.46	1.87	7	1
4:A:377:PX4:H59	4:A:391:PX4:H50	0.46	1.88	8	1
4:A:338:PX4:H45	4:A:347:PX4:H71	0.46	1.88	9	1
4:A:396:PX4:H11	4:A:403:PX4:O6	0.46	2.10	9	1
4:A:393:PX4:H28	4:A:394:PX4:H56	0.46	1.88	10	1
4:A:316:PX4:H3	4:A:324:PX4:O2	0.46	2.11	11	1
4:A:424:PX4:H53	4:A:430:PX4:H27	0.46	1.88	13	1
4:A:341:PX4:H55	4:A:357:PX4:H24	0.46	1.88	15	1
4:A:352:PX4:H3	4:A:365:PX4:O4	0.46	2.11	15	1
4:A:403:PX4:H34	4:A:403:PX4:H61	0.46	1.85	16	1
4:A:391:PX4:H15	4:A:400:PX4:O7	0.46	2.11	17	1
4:A:393:PX4:H65	4:A:400:PX4:H40	0.46	1.88	17	1
4:A:368:PX4:H54	4:A:430:PX4:H20	0.46	1.87	19	1
4:A:340:PX4:H59	4:A:355:PX4:H67	0.46	1.88	1	1
4:A:384:PX4:H17	4:A:393:PX4:H22	0.46	1.87	1	1
4:A:409:PX4:H71	4:A:410:PX4:H63	0.46	1.87	5	1
4:A:409:PX4:H28	4:A:417:PX4:H23	0.46	1.88	6	1
4:A:311:PX4:H32	4:A:396:PX4:H43	0.46	1.88	7	1
4:A:399:PX4:H26	4:A:408:PX4:C6	0.46	2.40	7	1
4:A:414:PX4:H10	4:A:422:PX4:O8	0.46	2.11	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:333:PX4:H26	4:A:339:PX4:H58	0.46	1.87	15	1
1:A:129:TRP:CD2	4:A:313:PX4:H1	0.46	2.46	16	1
4:A:337:PX4:H51	4:A:347:PX4:H22	0.46	1.88	17	1
4:A:401:PX4:H36	4:A:410:PX4:H36	0.46	1.88	18	1
4:A:371:PX4:H63	4:A:403:PX4:H49	0.46	1.87	2	1
4:A:374:PX4:H49	4:A:382:PX4:O5	0.46	2.11	2	1
4:A:337:PX4:H24	4:A:346:PX4:H35	0.46	1.87	3	1
4:A:322:PX4:H58	4:A:332:PX4:H61	0.46	1.87	5	1
4:A:392:PX4:H34	4:A:399:PX4:H39	0.46	1.87	5	1
4:A:399:PX4:C9	4:A:408:PX4:H3	0.46	2.41	6	1
4:A:329:PX4:H70	4:A:402:PX4:H39	0.46	1.88	7	1
4:A:336:PX4:H18	4:A:358:PX4:H15	0.46	1.86	7	1
4:A:328:PX4:H14	4:A:335:PX4:H21	0.46	1.87	9	1
4:A:323:PX4:H54	4:A:340:PX4:H48	0.46	1.87	11	1
4:A:381:PX4:H23	4:A:385:PX4:H41	0.46	1.88	12	1
4:A:366:PX4:H45	4:A:417:PX4:H34	0.46	1.88	15	1
4:A:417:PX4:O1	4:A:417:PX4:H17	0.46	2.11	15	1
1:A:129:TRP:CG	4:A:313:PX4:H1	0.46	2.46	16	1
4:A:329:PX4:H40	4:A:391:PX4:H67	0.46	1.88	17	1
4:A:399:PX4:H18	4:A:408:PX4:H1	0.46	1.88	17	1
4:A:318:PX4:H43	4:A:431:PX4:H38	0.46	1.87	18	1
4:A:313:PX4:H66	4:A:349:PX4:H39	0.46	1.87	19	1
4:A:344:PX4:H16	4:A:345:PX4:H47	0.45	1.88	1	1
4:A:336:PX4:H27	4:A:341:PX4:H26	0.45	1.87	6	1
4:A:362:PX4:H71	4:A:365:PX4:H65	0.45	1.88	6	1
4:A:313:PX4:H24	4:A:354:PX4:H55	0.45	1.87	11	1
4:A:329:PX4:H33	4:A:384:PX4:H42	0.45	1.88	13	1
4:A:358:PX4:H35	4:A:399:PX4:H68	0.45	1.86	15	1
4:A:310:PX4:H19	4:A:307:PX4:H55	0.45	1.88	1	1
4:A:390:PX4:H52	4:A:399:PX4:H15	0.45	1.87	2	1
4:A:321:PX4:H17	4:A:328:PX4:H49	0.45	1.88	4	1
4:A:321:PX4:H32	4:A:330:PX4:H63	0.45	1.87	5	1
4:A:347:PX4:H20	4:A:355:PX4:H17	0.45	1.87	7	1
4:A:405:PX4:H58	4:A:406:PX4:H59	0.45	1.87	7	1
4:A:392:PX4:H60	4:A:402:PX4:H58	0.45	1.88	8	1
4:A:331:PX4:H66	4:A:380:PX4:H43	0.45	1.87	9	1
4:A:424:PX4:H59	4:A:425:PX4:H39	0.45	1.86	9	1
4:A:306:PX4:H71	4:A:364:PX4:H39	0.45	1.88	10	1
4:A:380:PX4:O6	4:A:381:PX4:H6	0.45	2.12	10	1
4:A:375:PX4:H11	4:A:413:PX4:H54	0.45	1.87	11	1
4:A:407:PX4:H37	4:A:423:PX4:C21	0.45	2.38	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:327:PX4:H20	4:A:353:PX4:H52	0.45	1.88	17	1
4:A:317:PX4:H32	4:A:323:PX4:H33	0.45	1.87	18	1
4:A:390:PX4:H48	4:A:430:PX4:H59	0.45	1.88	19	1
4:A:372:PX4:H9	4:A:372:PX4:H15	0.45	1.88	20	1
4:A:391:PX4:H31	4:A:425:PX4:H56	0.45	1.89	2	1
4:A:401:PX4:H39	4:A:401:PX4:C36	0.45	2.41	2	1
1:A:12:TRP:CE3	1:A:59:ILE:HD11	0.45	2.47	6	3
4:A:407:PX4:H1	4:A:423:PX4:O1	0.45	2.10	7	1
4:A:315:PX4:H68	4:A:318:PX4:H23	0.45	1.88	8	1
4:A:373:PX4:H64	4:A:381:PX4:H34	0.45	1.87	8	1
4:A:394:PX4:H63	4:A:400:PX4:H33	0.45	1.88	8	1
4:A:313:PX4:H55	4:A:333:PX4:H53	0.45	1.89	9	1
4:A:407:PX4:O6	4:A:407:PX4:H7	0.45	2.11	10	1
4:A:319:PX4:H42	4:A:340:PX4:H45	0.45	1.88	14	1
4:A:371:PX4:H17	4:A:404:PX4:O6	0.45	2.11	15	1
4:A:308:PX4:H31	4:A:315:PX4:H26	0.45	1.89	17	1
4:A:357:PX4:H15	4:A:358:PX4:O5	0.45	2.10	17	1
4:A:374:PX4:O1	4:A:375:PX4:H15	0.45	2.11	17	1
4:A:318:PX4:O2	4:A:323:PX4:H14	0.45	2.10	2	1
4:A:358:PX4:H42	4:A:399:PX4:H64	0.45	1.87	2	1
4:A:406:PX4:H23	4:A:416:PX4:H20	0.45	1.87	2	1
4:A:337:PX4:H60	4:A:356:PX4:H32	0.45	1.87	7	1
4:A:389:PX4:H43	4:A:404:PX4:H25	0.45	1.89	8	1
4:A:357:PX4:H55	4:A:358:PX4:H55	0.45	1.87	12	1
4:A:384:PX4:H26	4:A:400:PX4:H21	0.45	1.86	12	1
4:A:369:PX4:H30	4:A:369:PX4:H60	0.45	1.89	13	1
4:A:311:PX4:H3	4:A:364:PX4:O8	0.45	2.12	14	1
4:A:369:PX4:H30	4:A:369:PX4:H64	0.45	1.89	15	1
4:A:374:PX4:H26	4:A:375:PX4:H29	0.45	1.89	15	1
4:A:382:PX4:H17	4:A:385:PX4:H56	0.45	1.88	19	1
4:A:316:PX4:H5	4:A:325:PX4:O6	0.45	2.11	20	1
4:A:334:PX4:H25	4:A:341:PX4:H25	0.45	1.88	20	1
4:A:380:PX4:H5	4:A:411:PX4:O8	0.45	2.11	20	1
4:A:360:PX4:H71	4:A:360:PX4:H20	0.45	1.87	2	1
4:A:335:PX4:H72	4:A:343:PX4:H68	0.45	1.89	4	1
4:A:337:PX4:H17	4:A:346:PX4:H21	0.45	1.89	7	1
4:A:349:PX4:H69	4:A:350:PX4:H66	0.45	1.87	7	1
4:A:375:PX4:H5	4:A:429:PX4:O8	0.45	2.12	7	1
4:A:322:PX4:H70	4:A:372:PX4:H37	0.45	1.88	8	1
4:A:369:PX4:C27	4:A:391:PX4:H22	0.45	2.40	10	1
4:A:370:PX4:H69	4:A:426:PX4:H34	0.45	1.89	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:409:PX4:H21	4:A:410:PX4:H47	0.45	1.88	16	1
4:A:361:PX4:H60	4:A:427:PX4:C22	0.45	2.41	17	1
4:A:384:PX4:H58	4:A:393:PX4:H30	0.45	1.89	17	1
4:A:405:PX4:O2	4:A:414:PX4:H6	0.45	2.11	17	1
4:A:396:PX4:H5	4:A:403:PX4:O6	0.45	2.10	18	1
4:A:378:PX4:H4	4:A:381:PX4:O3	0.45	2.12	1	1
4:A:373:PX4:H54	4:A:381:PX4:H53	0.45	1.88	3	1
4:A:347:PX4:H11	4:A:355:PX4:H17	0.45	1.89	4	1
4:A:316:PX4:H19	4:A:324:PX4:H28	0.45	1.88	5	1
4:A:370:PX4:C10	4:A:419:PX4:H51	0.45	2.38	9	1
4:A:340:PX4:H41	4:A:428:PX4:H41	0.45	1.89	14	1
4:A:403:PX4:H51	4:A:412:PX4:H52	0.45	1.87	15	1
4:A:410:PX4:H54	4:A:410:PX4:H21	0.45	1.87	15	1
4:A:425:PX4:O6	4:A:430:PX4:H16	0.45	2.11	15	1
4:A:382:PX4:H47	4:A:387:PX4:H46	0.45	1.89	19	1
4:A:377:PX4:H23	4:A:411:PX4:H25	0.45	1.88	20	1
4:A:388:PX4:H54	4:A:412:PX4:H54	0.45	1.88	3	1
4:A:369:PX4:H1	4:A:370:PX4:O2	0.45	2.11	4	1
4:A:319:PX4:H70	4:A:375:PX4:H43	0.45	1.88	5	1
4:A:337:PX4:H25	4:A:346:PX4:H35	0.45	1.88	9	1
4:A:357:PX4:C15	4:A:429:PX4:H44	0.45	2.41	9	1
4:A:310:PX4:H67	4:A:363:PX4:H24	0.45	1.88	10	1
4:A:338:PX4:H25	4:A:346:PX4:H21	0.45	1.87	10	1
4:A:376:PX4:H17	4:A:390:PX4:H19	0.45	1.89	10	1
4:A:411:PX4:H34	4:A:426:PX4:H35	0.45	1.88	10	1
4:A:306:PX4:H46	4:A:313:PX4:O8	0.45	2.12	11	1
4:A:329:PX4:H4	4:A:338:PX4:O1	0.45	2.11	16	1
4:A:368:PX4:H4	4:A:429:PX4:O1	0.45	2.11	18	1
4:A:405:PX4:H60	4:A:396:PX4:H27	0.45	1.87	1	1
4:A:336:PX4:H24	4:A:351:PX4:H50	0.45	1.89	5	1
4:A:313:PX4:H26	4:A:348:PX4:H60	0.45	1.88	7	1
4:A:312:PX4:H46	4:A:317:PX4:C6	0.45	2.42	10	1
4:A:340:PX4:H28	4:A:340:PX4:H9	0.45	1.88	10	1
1:A:100:LEU:HB3	1:A:104:THR:HG21	0.45	1.89	12	1
4:A:323:PX4:H15	4:A:339:PX4:H5	0.45	1.89	17	1
4:A:332:PX4:H56	4:A:410:PX4:H44	0.45	1.89	18	1
4:A:333:PX4:H55	4:A:333:PX4:H19	0.45	1.86	18	1
4:A:314:PX4:H32	4:A:345:PX4:H25	0.45	1.88	19	1
4:A:361:PX4:H46	4:A:362:PX4:H23	0.45	1.88	19	1
4:A:360:PX4:H43	4:A:401:PX4:H45	0.45	1.87	3	1
4:A:370:PX4:H53	4:A:424:PX4:H20	0.45	1.89	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:391:PX4:H44	4:A:400:PX4:H62	0.45	1.89	3	1
4:A:367:PX4:H45	4:A:421:PX4:H68	0.45	1.88	4	1
4:A:372:PX4:H16	4:A:373:PX4:C11	0.45	2.42	6	1
4:A:306:PX4:H21	4:A:314:PX4:H15	0.45	1.89	7	1
4:A:305:PX4:H21	4:A:328:PX4:H17	0.45	1.89	13	1
4:A:389:PX4:H3	4:A:403:PX4:O1	0.45	2.12	13	1
4:A:338:PX4:H55	4:A:346:PX4:H64	0.45	1.88	16	1
4:A:374:PX4:H24	4:A:398:PX4:H16	0.45	1.89	16	1
4:A:376:PX4:H19	4:A:383:PX4:C11	0.45	2.41	17	1
4:A:316:PX4:H19	4:A:334:PX4:C34	0.45	2.39	18	1
4:A:328:PX4:H58	4:A:342:PX4:H66	0.45	1.89	5	1
4:A:339:PX4:H33	4:A:347:PX4:H35	0.45	1.88	5	1
4:A:399:PX4:O2	4:A:408:PX4:H12	0.45	2.11	6	1
4:A:322:PX4:H37	4:A:332:PX4:H62	0.45	1.88	7	1
4:A:349:PX4:H16	4:A:363:PX4:H47	0.45	1.88	8	1
4:A:337:PX4:H40	4:A:388:PX4:H44	0.45	1.89	11	1
4:A:376:PX4:H17	4:A:390:PX4:H24	0.45	1.89	11	1
4:A:389:PX4:H24	4:A:403:PX4:H24	0.45	1.87	12	1
4:A:312:PX4:H26	4:A:327:PX4:H60	0.45	1.89	13	1
4:A:305:PX4:H22	4:A:328:PX4:H9	0.45	1.89	17	1
4:A:372:PX4:H5	4:A:380:PX4:O1	0.45	2.11	17	1
4:A:328:PX4:C30	4:A:335:PX4:H23	0.45	2.36	20	1
4:A:336:PX4:H22	4:A:351:PX4:H57	0.44	1.89	1	1
4:A:368:PX4:H22	4:A:368:PX4:C1	0.44	2.39	1	1
4:A:381:PX4:H34	4:A:387:PX4:H38	0.44	1.89	2	1
1:A:23:TYR:C	1:A:25:TYR:H	0.44	2.20	3	1
4:A:392:PX4:H30	4:A:394:PX4:H60	0.44	1.89	4	1
4:A:324:PX4:H51	4:A:339:PX4:H49	0.44	1.89	5	1
4:A:394:PX4:H40	4:A:402:PX4:H18	0.44	1.88	5	1
4:A:368:PX4:H65	4:A:376:PX4:H62	0.44	1.88	7	1
4:A:389:PX4:O1	4:A:398:PX4:H3	0.44	2.13	12	1
4:A:326:PX4:O1	4:A:343:PX4:H15	0.44	2.13	14	1
4:A:392:PX4:H34	4:A:393:PX4:H69	0.44	1.89	15	1
4:A:343:PX4:H30	4:A:350:PX4:H36	0.44	1.88	3	1
4:A:354:PX4:H61	4:A:354:PX4:H35	0.44	1.89	3	1
4:A:352:PX4:H27	4:A:366:PX4:H60	0.44	1.90	4	1
4:A:354:PX4:H26	4:A:356:PX4:H34	0.44	1.89	4	1
4:A:422:PX4:H59	4:A:431:PX4:H32	0.44	1.89	5	1
4:A:392:PX4:H68	4:A:394:PX4:H31	0.44	1.89	7	1
4:A:399:PX4:H23	4:A:408:PX4:H24	0.44	1.88	8	1
4:A:393:PX4:H4	4:A:402:PX4:O2	0.44	2.12	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:326:PX4:H4	4:A:353:PX4:O6	0.44	2.10	16	1
4:A:318:PX4:H64	4:A:332:PX4:H64	0.44	1.89	19	1
4:A:390:PX4:H17	4:A:399:PX4:H48	0.44	1.90	20	1
4:A:341:PX4:H17	4:A:350:PX4:H20	0.44	1.90	1	1
4:A:394:PX4:H34	4:A:412:PX4:H39	0.44	1.89	3	1
1:A:140:ARG:NE	1:A:175:ASP:OD1	0.44	2.46	5	1
4:A:403:PX4:H47	4:A:412:PX4:H17	0.44	1.89	5	1
4:A:376:PX4:H19	4:A:390:PX4:H31	0.44	1.90	8	1
1:A:143:HIS:CE1	1:A:145:ASP:OD2	0.44	2.69	10	1
4:A:319:PX4:H22	4:A:327:PX4:H58	0.44	1.88	11	1
4:A:379:PX4:H57	4:A:381:PX4:H32	0.44	1.89	11	1
4:A:396:PX4:H34	4:A:414:PX4:H60	0.44	1.89	11	1
4:A:329:PX4:O6	4:A:338:PX4:H11	0.44	2.13	12	1
4:A:419:PX4:H30	4:A:424:PX4:H16	0.44	1.89	14	1
4:A:329:PX4:H36	4:A:338:PX4:H67	0.44	1.90	15	1
4:A:336:PX4:H43	4:A:399:PX4:H57	0.44	1.88	15	1
4:A:368:PX4:H28	4:A:431:PX4:H53	0.44	1.88	16	1
4:A:319:PX4:H64	4:A:429:PX4:H72	0.44	1.89	17	1
4:A:316:PX4:H49	4:A:317:PX4:H46	0.44	1.89	20	1
4:A:376:PX4:H55	4:A:430:PX4:H19	0.44	1.88	1	1
4:A:348:PX4:H38	4:A:349:PX4:H33	0.44	1.89	7	1
4:A:331:PX4:H66	4:A:346:PX4:H69	0.44	1.89	10	1
4:A:378:PX4:C22	4:A:380:PX4:H35	0.44	2.41	10	1
4:A:327:PX4:H53	4:A:327:PX4:H5	0.44	1.89	13	1
4:A:379:PX4:O3	4:A:379:PX4:H13	0.44	2.12	14	1
4:A:312:PX4:O6	4:A:327:PX4:H12	0.44	2.12	15	1
4:A:320:PX4:H4	4:A:353:PX4:H46	0.44	1.88	15	1
4:A:377:PX4:H14	4:A:387:PX4:H11	0.44	1.89	15	1
4:A:308:PX4:H5	4:A:359:PX4:H53	0.44	1.89	19	1
4:A:306:PX4:H27	4:A:313:PX4:H22	0.44	1.88	20	1
4:A:338:PX4:H24	4:A:346:PX4:H60	0.44	1.90	20	1
4:A:332:PX4:H59	4:A:340:PX4:H24	0.44	1.88	3	1
4:A:309:PX4:H58	4:A:357:PX4:H16	0.44	1.89	6	1
4:A:380:PX4:O6	4:A:411:PX4:H14	0.44	2.13	7	1
4:A:379:PX4:H17	4:A:380:PX4:H11	0.44	1.88	8	1
4:A:369:PX4:H29	4:A:378:PX4:H29	0.44	1.88	9	1
4:A:337:PX4:H42	4:A:388:PX4:H45	0.44	1.89	14	1
4:A:306:PX4:H58	4:A:348:PX4:H63	0.44	1.88	15	1
4:A:336:PX4:H55	4:A:345:PX4:H26	0.44	1.90	16	1
4:A:405:PX4:O6	4:A:420:PX4:H17	0.44	2.12	20	1
4:A:363:PX4:H26	4:A:364:PX4:H68	0.44	1.88	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:368:PX4:H58	4:A:383:PX4:H63	0.44	1.88	5	1
4:A:334:PX4:H36	4:A:353:PX4:H40	0.44	1.88	6	1
4:A:375:PX4:H24	4:A:429:PX4:H24	0.44	1.89	11	1
4:A:396:PX4:H61	4:A:396:PX4:H29	0.44	1.90	11	1
4:A:387:PX4:H62	4:A:395:PX4:H52	0.44	1.90	13	1
4:A:338:PX4:H5	4:A:351:PX4:O6	0.44	2.13	15	1
4:A:331:PX4:H40	4:A:340:PX4:H68	0.44	1.90	17	1
4:A:307:PX4:H49	4:A:310:PX4:O3	0.44	2.13	18	1
4:A:315:PX4:O8	4:A:340:PX4:H5	0.44	2.13	20	1
4:A:310:PX4:H33	4:A:359:PX4:H31	0.44	1.89	1	1
4:A:315:PX4:H70	4:A:319:PX4:O8	0.44	2.12	1	1
4:A:309:PX4:H52	4:A:357:PX4:H59	0.44	1.89	2	1
4:A:422:PX4:H34	4:A:431:PX4:H44	0.44	1.89	8	1
4:A:320:PX4:H71	4:A:342:PX4:H72	0.44	1.88	10	1
4:A:319:PX4:H71	4:A:431:PX4:H71	0.44	1.89	12	1
4:A:330:PX4:H37	4:A:380:PX4:H44	0.44	1.88	12	1
4:A:359:PX4:H39	4:A:367:PX4:H64	0.44	1.88	13	1
4:A:390:PX4:H26	4:A:430:PX4:H57	0.44	1.90	14	1
4:A:419:PX4:H16	4:A:426:PX4:H19	0.44	1.89	14	1
4:A:308:PX4:H57	4:A:318:PX4:H28	0.44	1.90	15	1
4:A:314:PX4:H8	4:A:364:PX4:O6	0.44	2.13	15	1
4:A:375:PX4:H66	4:A:421:PX4:H71	0.44	1.88	18	1
4:A:411:PX4:H33	4:A:427:PX4:H67	0.44	1.90	18	1
4:A:305:PX4:H21	4:A:321:PX4:H71	0.44	1.88	20	1
4:A:315:PX4:H35	4:A:373:PX4:H43	0.44	1.89	1	1
4:A:399:PX4:H46	4:A:408:PX4:H57	0.44	1.89	3	1
4:A:333:PX4:H25	4:A:355:PX4:H66	0.44	1.89	6	1
4:A:326:PX4:H32	4:A:326:PX4:H64	0.44	1.90	7	1
4:A:366:PX4:H7	4:A:366:PX4:O6	0.44	2.13	7	1
4:A:333:PX4:H3	4:A:339:PX4:H70	0.44	1.89	8	1
4:A:385:PX4:O1	4:A:387:PX4:H14	0.44	2.13	9	1
4:A:348:PX4:H51	4:A:348:PX4:H57	0.44	1.52	12	1
4:A:419:PX4:H27	4:A:426:PX4:H55	0.44	1.88	14	1
4:A:347:PX4:H13	4:A:355:PX4:H18	0.44	1.90	16	1
4:A:388:PX4:H16	4:A:395:PX4:H50	0.44	1.90	17	1
4:A:333:PX4:H32	4:A:339:PX4:H61	0.44	1.90	3	1
4:A:372:PX4:H19	4:A:421:PX4:O8	0.44	2.13	5	1
4:A:417:PX4:H68	4:A:427:PX4:H69	0.44	1.90	6	1
4:A:376:PX4:H55	4:A:430:PX4:H61	0.44	1.88	8	1
4:A:378:PX4:H34	4:A:385:PX4:H30	0.44	1.90	9	1
4:A:315:PX4:H49	4:A:322:PX4:H50	0.44	1.88	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:322:PX4:H42	4:A:323:PX4:H65	0.44	1.89	10	1
4:A:404:PX4:H62	4:A:404:PX4:H57	0.44	1.35	10	1
4:A:324:PX4:H60	4:A:339:PX4:H22	0.44	1.89	12	1
4:A:413:PX4:H64	4:A:429:PX4:H47	0.44	1.89	12	1
4:A:377:PX4:H62	4:A:378:PX4:H35	0.44	1.90	13	1
4:A:337:PX4:H41	4:A:354:PX4:H43	0.44	1.90	14	1
4:A:430:PX4:H42	4:A:430:PX4:H35	0.44	1.37	16	1
4:A:320:PX4:H46	4:A:353:PX4:H52	0.44	1.90	18	1
4:A:384:PX4:H53	4:A:386:PX4:H46	0.44	1.89	18	1
4:A:318:PX4:H8	4:A:324:PX4:H21	0.44	1.89	19	1
4:A:413:PX4:H60	4:A:413:PX4:H67	0.43	1.52	1	1
4:A:346:PX4:H63	4:A:346:PX4:H32	0.43	1.89	2	1
4:A:377:PX4:O8	4:A:387:PX4:H9	0.43	2.13	5	1
4:A:428:PX4:H48	4:A:428:PX4:H54	0.43	1.62	5	1
4:A:336:PX4:H30	4:A:358:PX4:H31	0.43	1.89	6	1
4:A:419:PX4:H25	4:A:426:PX4:H23	0.43	1.90	7	1
4:A:321:PX4:H42	4:A:342:PX4:H63	0.43	1.89	11	1
4:A:379:PX4:H66	4:A:380:PX4:H36	0.43	1.90	11	1
4:A:406:PX4:H32	4:A:408:PX4:H30	0.43	1.88	11	1
4:A:419:PX4:H44	4:A:419:PX4:H38	0.43	1.53	12	1
4:A:334:PX4:H50	4:A:341:PX4:H53	0.43	1.90	15	1
4:A:397:PX4:H59	4:A:398:PX4:H68	0.43	1.90	17	1
4:A:401:PX4:H65	4:A:401:PX4:H38	0.43	1.90	18	1
4:A:329:PX4:H11	4:A:346:PX4:O1	0.43	2.13	20	1
4:A:321:PX4:H36	4:A:333:PX4:H44	0.43	1.90	1	1
4:A:388:PX4:H37	4:A:388:PX4:H31	0.43	1.58	3	1
4:A:368:PX4:H48	4:A:429:PX4:H47	0.43	1.89	4	1
4:A:334:PX4:H20	4:A:342:PX4:H25	0.43	1.89	6	1
4:A:389:PX4:H60	4:A:395:PX4:H55	0.43	1.90	6	1
4:A:347:PX4:H19	4:A:355:PX4:C26	0.43	2.43	9	1
4:A:370:PX4:H22	4:A:419:PX4:H54	0.43	1.90	10	1
4:A:321:PX4:H46	4:A:328:PX4:H51	0.43	1.91	12	1
4:A:365:PX4:H20	4:A:365:PX4:H26	0.43	1.48	12	1
4:A:309:PX4:H7	4:A:366:PX4:O7	0.43	2.12	13	1
4:A:389:PX4:H37	4:A:403:PX4:H63	0.43	1.90	13	1
4:A:323:PX4:H63	4:A:340:PX4:H56	0.43	1.89	14	1
4:A:376:PX4:H54	4:A:430:PX4:H52	0.43	1.89	15	1
4:A:373:PX4:O2	4:A:380:PX4:H14	0.43	2.12	16	1
4:A:349:PX4:H53	4:A:350:PX4:H46	0.43	1.89	1	1
4:A:340:PX4:H2	4:A:340:PX4:O6	0.43	2.14	2	1
4:A:307:PX4:H36	4:A:307:PX4:H41	0.43	1.54	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:314:PX4:H20	4:A:354:PX4:H51	0.43	1.90	7	1
4:A:312:PX4:H31	4:A:319:PX4:H54	0.43	1.89	9	1
4:A:396:PX4:H53	4:A:414:PX4:H50	0.43	1.90	10	1
4:A:374:PX4:H33	4:A:382:PX4:H28	0.43	1.90	11	1
4:A:339:PX4:H21	4:A:355:PX4:H61	0.43	1.90	12	1
1:A:140:ARG:HE	1:A:175:ASP:CG	0.43	2.22	14	1
1:A:98:ARG:CZ	4:A:355:PX4:H13	0.43	2.44	15	1
4:A:399:PX4:H22	4:A:408:PX4:O7	0.43	2.14	15	1
4:A:379:PX4:H27	4:A:401:PX4:C12	0.43	2.43	16	1
4:A:419:PX4:H28	4:A:426:PX4:H48	0.43	1.88	16	1
4:A:334:PX4:C13	4:A:341:PX4:H22	0.43	2.42	17	1
4:A:351:PX4:H42	4:A:391:PX4:C22	0.43	2.43	19	1
4:A:419:PX4:H29	4:A:426:PX4:H29	0.43	1.89	1	1
4:A:337:PX4:O4	4:A:346:PX4:H16	0.43	2.13	2	1
4:A:354:PX4:O6	4:A:356:PX4:H26	0.43	2.14	2	1
4:A:374:PX4:H62	4:A:374:PX4:H39	0.43	1.90	2	1
4:A:313:PX4:H29	4:A:364:PX4:H29	0.43	1.91	4	1
4:A:305:PX4:H47	4:A:362:PX4:O6	0.43	2.13	6	1
4:A:390:PX4:O6	4:A:390:PX4:H6	0.43	2.13	9	1
4:A:413:PX4:H16	4:A:431:PX4:H15	0.43	1.91	9	1
4:A:386:PX4:H20	4:A:395:PX4:H19	0.43	1.90	10	1
4:A:410:PX4:H54	4:A:410:PX4:H49	0.43	1.60	11	1
4:A:346:PX4:H27	4:A:346:PX4:C27	0.43	2.37	12	1
4:A:374:PX4:H25	4:A:429:PX4:H28	0.43	1.90	13	1
4:A:358:PX4:H39	4:A:399:PX4:H64	0.43	1.90	15	1
4:A:378:PX4:H38	4:A:387:PX4:H40	0.43	1.90	16	1
4:A:402:PX4:H57	4:A:402:PX4:H50	0.43	1.62	20	1
4:A:359:PX4:H21	4:A:367:PX4:H16	0.43	1.91	3	1
4:A:373:PX4:H54	4:A:375:PX4:H55	0.43	1.89	4	1
4:A:350:PX4:H29	4:A:350:PX4:H53	0.43	1.88	5	1
4:A:333:PX4:H20	4:A:356:PX4:H55	0.43	1.90	6	1
4:A:320:PX4:H56	4:A:362:PX4:H54	0.43	1.91	7	1
4:A:308:PX4:H57	4:A:318:PX4:H48	0.43	1.90	10	1
4:A:317:PX4:H33	4:A:318:PX4:H23	0.43	1.91	13	1
4:A:362:PX4:O2	4:A:365:PX4:H11	0.43	2.14	14	1
4:A:381:PX4:H42	4:A:381:PX4:H35	0.43	1.41	14	1
4:A:324:PX4:C10	4:A:340:PX4:H54	0.43	2.34	16	1
4:A:314:PX4:H53	4:A:315:PX4:H72	0.43	1.90	18	1
4:A:331:PX4:H47	4:A:331:PX4:H16	0.43	1.64	18	1
4:A:397:PX4:H47	4:A:415:PX4:H10	0.43	1.91	19	1
4:A:338:PX4:H8	4:A:351:PX4:O6	0.43	2.14	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:338:PX4:H50	4:A:342:PX4:H52	0.43	1.90	20	1
4:A:383:PX4:H35	4:A:397:PX4:H30	0.43	1.88	2	1
4:A:329:PX4:H66	4:A:338:PX4:H43	0.43	1.90	3	1
4:A:338:PX4:C35	4:A:384:PX4:H34	0.43	2.43	4	1
4:A:383:PX4:H4	4:A:398:PX4:O1	0.43	2.12	4	1
4:A:373:PX4:H67	4:A:375:PX4:H66	0.43	1.89	6	1
4:A:341:PX4:H52	4:A:350:PX4:H19	0.43	1.90	7	1
4:A:329:PX4:H65	4:A:346:PX4:H40	0.43	1.89	8	1
4:A:305:PX4:H4	4:A:361:PX4:O8	0.43	2.13	15	1
4:A:369:PX4:H45	4:A:378:PX4:H42	0.43	1.89	15	1
4:A:422:PX4:H19	4:A:431:PX4:H24	0.43	1.91	15	1
4:A:375:PX4:H27	4:A:421:PX4:H37	0.43	1.90	16	1
4:A:322:PX4:H64	4:A:332:PX4:H65	0.43	1.91	17	1
4:A:378:PX4:H15	4:A:380:PX4:H3	0.43	1.90	18	1
4:A:321:PX4:H14	4:A:330:PX4:O8	0.43	2.13	19	1
4:A:334:PX4:H52	4:A:334:PX4:H39	0.43	1.90	19	1
4:A:364:PX4:H38	4:A:420:PX4:H63	0.43	1.89	19	1
4:A:306:PX4:C10	4:A:314:PX4:H17	0.43	2.43	20	1
4:A:381:PX4:H55	4:A:387:PX4:H54	0.43	1.89	20	1
1:A:74:GLU:HG3	1:A:75:TYR:H	0.43	1.74	1	2
4:A:359:PX4:H35	4:A:359:PX4:H30	0.43	1.65	2	1
4:A:419:PX4:H61	4:A:425:PX4:H59	0.43	1.90	2	1
4:A:364:PX4:H35	4:A:405:PX4:H41	0.43	1.90	3	1
4:A:386:PX4:H7	4:A:400:PX4:O6	0.43	2.14	3	1
4:A:424:PX4:H24	4:A:425:PX4:H55	0.43	1.90	3	1
4:A:407:PX4:H16	4:A:422:PX4:H3	0.43	1.91	4	1
4:A:316:PX4:H17	4:A:317:PX4:H22	0.43	1.89	6	1
4:A:346:PX4:H42	4:A:355:PX4:H31	0.43	1.89	6	1
4:A:320:PX4:H66	4:A:362:PX4:H62	0.43	1.91	7	1
4:A:413:PX4:H26	4:A:421:PX4:H50	0.43	1.89	7	1
1:A:12:TRP:CZ2	1:A:54:LEU:HD22	0.43	2.49	9	1
1:A:73:ALA:HB1	1:A:78:PHE:CZ	0.43	2.49	9	1
4:A:312:PX4:H72	4:A:317:PX4:H68	0.43	1.89	10	1
4:A:369:PX4:H58	4:A:391:PX4:H48	0.43	1.90	10	1
4:A:305:PX4:O8	4:A:328:PX4:H9	0.43	2.13	11	1
4:A:414:PX4:H58	4:A:422:PX4:H58	0.43	1.89	11	1
4:A:369:PX4:H20	4:A:377:PX4:H22	0.43	1.90	12	1
4:A:384:PX4:C13	4:A:391:PX4:H57	0.43	2.43	13	1
4:A:321:PX4:H19	4:A:330:PX4:H69	0.43	1.88	14	1
4:A:349:PX4:H50	4:A:350:PX4:H51	0.43	1.90	14	1
4:A:334:PX4:H49	4:A:341:PX4:H16	0.43	1.89	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:344:PX4:H9	4:A:345:PX4:O6	0.43	2.13	16	1
4:A:379:PX4:H47	4:A:380:PX4:H5	0.43	1.89	17	1
4:A:311:PX4:H16	4:A:363:PX4:H27	0.43	1.90	19	1
4:A:305:PX4:H47	4:A:321:PX4:H65	0.43	1.90	20	1
4:A:403:PX4:H21	4:A:403:PX4:H28	0.43	1.55	20	1
4:A:423:PX4:H40	4:A:423:PX4:H34	0.43	1.65	1	1
4:A:328:PX4:H19	4:A:335:PX4:H48	0.43	1.91	2	1
4:A:391:PX4:H6	4:A:391:PX4:H20	0.43	1.89	2	1
4:A:384:PX4:O8	4:A:386:PX4:H3	0.43	2.14	3	2
4:A:332:PX4:H45	4:A:381:PX4:H40	0.43	1.90	6	1
4:A:376:PX4:H53	4:A:383:PX4:H55	0.43	1.90	7	1
4:A:384:PX4:H58	4:A:394:PX4:H53	0.43	1.91	9	1
4:A:332:PX4:H31	4:A:340:PX4:H57	0.43	1.90	10	1
4:A:394:PX4:O2	4:A:394:PX4:H7	0.43	2.13	11	1
4:A:423:PX4:H35	4:A:424:PX4:H64	0.43	1.89	13	1
4:A:398:PX4:H65	4:A:398:PX4:H58	0.43	1.44	14	1
4:A:352:PX4:C1	4:A:365:PX4:H17	0.43	2.44	15	1
4:A:379:PX4:H64	4:A:381:PX4:H35	0.43	1.90	17	1
4:A:334:PX4:H39	4:A:334:PX4:H59	0.43	1.89	19	1
4:A:329:PX4:H21	4:A:351:PX4:H17	0.43	1.90	20	1
4:A:383:PX4:H30	4:A:397:PX4:H27	0.43	1.91	4	1
4:A:399:PX4:H56	4:A:399:PX4:H63	0.43	1.53	4	1
4:A:422:PX4:H25	4:A:431:PX4:H37	0.43	1.90	4	1
4:A:407:PX4:H20	4:A:423:PX4:O6	0.43	2.13	5	1
4:A:372:PX4:H16	4:A:373:PX4:H22	0.43	1.89	6	2
4:A:393:PX4:H48	4:A:394:PX4:H48	0.43	1.91	6	1
4:A:305:PX4:H57	4:A:305:PX4:H51	0.43	1.73	9	1
4:A:316:PX4:H68	4:A:316:PX4:H63	0.43	1.61	10	1
4:A:431:PX4:H56	4:A:431:PX4:H62	0.43	1.53	10	1
4:A:318:PX4:H54	4:A:318:PX4:H60	0.43	1.67	13	1
4:A:312:PX4:H30	4:A:319:PX4:H49	0.43	1.90	18	1
4:A:375:PX4:H1	4:A:421:PX4:O3	0.43	2.13	18	1
4:A:415:PX4:H57	4:A:415:PX4:H62	0.43	1.53	18	1
4:A:413:PX4:H28	4:A:413:PX4:H22	0.43	1.68	3	1
4:A:336:PX4:H71	4:A:344:PX4:H42	0.43	1.91	4	1
4:A:377:PX4:H64	4:A:386:PX4:H32	0.43	1.91	12	1
4:A:402:PX4:H31	4:A:402:PX4:H38	0.43	1.44	14	1
4:A:328:PX4:H65	4:A:342:PX4:H71	0.43	1.91	17	1
4:A:337:PX4:H25	4:A:356:PX4:H21	0.43	1.91	17	1
4:A:396:PX4:H17	4:A:414:PX4:H16	0.43	1.91	19	1
4:A:421:PX4:H22	4:A:421:PX4:H27	0.42	1.61	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:329:PX4:H53	4:A:336:PX4:H47	0.42	1.91	3	1
4:A:309:PX4:H16	4:A:357:PX4:H51	0.42	1.91	5	1
4:A:372:PX4:H22	4:A:421:PX4:H50	0.42	1.91	5	1
4:A:378:PX4:H60	4:A:380:PX4:H28	0.42	1.91	5	1
4:A:313:PX4:H30	4:A:348:PX4:H68	0.42	1.91	6	1
4:A:357:PX4:H47	4:A:358:PX4:H16	0.42	1.90	8	1
4:A:369:PX4:H29	4:A:370:PX4:H40	0.42	1.89	8	1
4:A:414:PX4:H29	4:A:431:PX4:H19	0.42	1.91	9	1
4:A:382:PX4:H43	4:A:398:PX4:H43	0.42	1.92	13	1
4:A:424:PX4:H27	4:A:429:PX4:H59	0.42	1.91	19	1
4:A:399:PX4:H36	4:A:408:PX4:H36	0.42	1.91	1	1
4:A:418:PX4:H7	4:A:427:PX4:O2	0.42	2.14	1	1
4:A:325:PX4:H28	4:A:325:PX4:H63	0.42	1.90	3	1
4:A:333:PX4:H42	4:A:395:PX4:H62	0.42	1.91	3	1
4:A:417:PX4:H6	4:A:423:PX4:O8	0.42	2.14	4	1
4:A:371:PX4:H36	4:A:427:PX4:H44	0.42	1.92	7	1
4:A:373:PX4:H66	4:A:382:PX4:H38	0.42	1.91	8	1
4:A:384:PX4:H57	4:A:386:PX4:H55	0.42	1.91	9	1
1:A:96:TYR:OH	4:A:333:PX4:H2	0.42	2.14	10	1
4:A:388:PX4:H23	4:A:394:PX4:H17	0.42	1.92	10	1
4:A:341:PX4:H23	4:A:358:PX4:H37	0.42	1.92	11	1
4:A:346:PX4:H34	4:A:346:PX4:H27	0.42	1.56	11	1
4:A:402:PX4:H67	4:A:427:PX4:H37	0.42	1.91	11	1
4:A:336:PX4:H68	4:A:366:PX4:H67	0.42	1.90	12	1
4:A:371:PX4:H52	4:A:412:PX4:H21	0.42	1.92	13	1
4:A:387:PX4:H30	4:A:395:PX4:H35	0.42	1.91	13	1
4:A:328:PX4:H35	4:A:328:PX4:H30	0.42	1.49	14	1
4:A:383:PX4:H31	4:A:398:PX4:H26	0.42	1.91	14	1
4:A:392:PX4:H51	4:A:402:PX4:H15	0.42	1.91	16	1
4:A:306:PX4:H50	4:A:364:PX4:H23	0.42	1.91	17	1
4:A:323:PX4:H70	4:A:428:PX4:H68	0.42	1.90	18	1
4:A:307:PX4:H12	4:A:310:PX4:O4	0.42	2.13	20	1
4:A:377:PX4:C11	4:A:378:PX4:H16	0.42	2.40	20	1
4:A:365:PX4:H70	4:A:379:PX4:H45	0.42	1.92	1	1
4:A:420:PX4:H21	4:A:420:PX4:H27	0.42	1.56	1	1
4:A:320:PX4:C15	4:A:328:PX4:H37	0.42	2.36	3	1
4:A:336:PX4:H39	4:A:358:PX4:H65	0.42	1.90	3	1
4:A:325:PX4:H42	4:A:325:PX4:H65	0.42	1.91	5	1
4:A:352:PX4:O2	4:A:365:PX4:H10	0.42	2.14	5	1
4:A:388:PX4:H25	4:A:394:PX4:O6	0.42	2.15	5	1
4:A:386:PX4:O1	4:A:387:PX4:H7	0.42	2.14	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:369:PX4:H56	4:A:369:PX4:H31	0.42	1.90	9	1
4:A:337:PX4:H63	4:A:346:PX4:H39	0.42	1.91	10	1
4:A:317:PX4:H18	4:A:318:PX4:H8	0.42	1.91	11	1
4:A:314:PX4:H37	4:A:365:PX4:H58	0.42	1.90	12	1
4:A:404:PX4:H57	4:A:412:PX4:H23	0.42	1.90	12	1
4:A:408:PX4:H30	4:A:408:PX4:H36	0.42	1.62	13	1
4:A:352:PX4:H24	4:A:366:PX4:H20	0.42	1.91	14	1
4:A:408:PX4:H18	4:A:415:PX4:H27	0.42	1.91	14	1
4:A:318:PX4:H58	4:A:318:PX4:H65	0.42	1.66	16	1
4:A:388:PX4:H55	4:A:389:PX4:H53	0.42	1.91	16	1
4:A:419:PX4:H27	4:A:424:PX4:H56	0.42	1.90	16	1
4:A:429:PX4:H25	4:A:429:PX4:H31	0.42	1.61	16	1
4:A:403:PX4:H63	4:A:403:PX4:C21	0.42	2.44	17	1
4:A:411:PX4:O2	4:A:381:PX4:H11	0.42	2.15	1	1
4:A:397:PX4:O5	4:A:398:PX4:H52	0.42	2.14	2	1
4:A:318:PX4:H71	4:A:322:PX4:H55	0.42	1.90	3	1
4:A:399:PX4:O6	4:A:408:PX4:H7	0.42	2.14	3	1
4:A:310:PX4:H58	4:A:363:PX4:H32	0.42	1.92	4	1
4:A:384:PX4:H56	4:A:395:PX4:H34	0.42	1.90	6	1
4:A:322:PX4:H16	4:A:332:PX4:H47	0.42	1.92	7	1
4:A:374:PX4:O3	4:A:429:PX4:H5	0.42	2.14	7	1
4:A:386:PX4:H31	4:A:387:PX4:H31	0.42	1.89	7	1
4:A:404:PX4:H33	4:A:420:PX4:H55	0.42	1.90	8	1
4:A:384:PX4:H29	4:A:400:PX4:H30	0.42	1.91	10	1
4:A:411:PX4:H54	4:A:411:PX4:H61	0.42	1.76	10	1
4:A:419:PX4:H41	4:A:419:PX4:H36	0.42	1.61	14	1
4:A:421:PX4:H66	4:A:421:PX4:H34	0.42	1.90	14	1
4:A:404:PX4:H23	4:A:418:PX4:H20	0.42	1.91	15	1
4:A:391:PX4:H8	4:A:400:PX4:O2	0.42	2.14	16	1
4:A:333:PX4:H25	4:A:356:PX4:H53	0.42	1.90	17	1
4:A:389:PX4:O7	4:A:398:PX4:H15	0.42	2.15	17	1
4:A:307:PX4:H54	4:A:310:PX4:H18	0.42	1.89	20	1
1:A:63:GLN:HE21	1:A:63:GLN:HA	0.42	1.75	2	1
1:A:234:ILE:HG23	1:A:237:LEU:HD12	0.42	1.90	3	1
4:A:376:PX4:C19	4:A:397:PX4:H67	0.42	2.44	4	1
4:A:376:PX4:H60	4:A:430:PX4:H22	0.42	1.90	4	1
4:A:418:PX4:H38	4:A:418:PX4:H31	0.42	1.60	5	1
4:A:400:PX4:H54	4:A:425:PX4:H35	0.42	1.91	6	1
4:A:403:PX4:O4	4:A:412:PX4:H8	0.42	2.14	6	1
4:A:369:PX4:O8	4:A:391:PX4:H8	0.42	2.14	8	1
4:A:382:PX4:H48	4:A:382:PX4:H55	0.42	1.58	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:322:PX4:H52	4:A:332:PX4:H47	0.42	1.91	15	1
4:A:346:PX4:H58	4:A:346:PX4:H64	0.42	1.62	15	1
4:A:364:PX4:H30	4:A:364:PX4:H23	0.42	1.64	15	1
4:A:316:PX4:H23	4:A:339:PX4:H55	0.42	1.92	16	1
4:A:406:PX4:H12	4:A:415:PX4:O6	0.42	2.15	16	1
4:A:378:PX4:H62	4:A:411:PX4:H54	0.42	1.91	17	1
4:A:315:PX4:H66	4:A:318:PX4:H23	0.42	1.90	2	1
4:A:373:PX4:H37	4:A:421:PX4:H36	0.42	1.90	2	1
4:A:320:PX4:H19	4:A:353:PX4:H61	0.42	1.90	3	1
4:A:333:PX4:H18	4:A:333:PX4:H9	0.42	1.91	3	1
4:A:420:PX4:H53	4:A:420:PX4:H36	0.42	1.92	3	1
4:A:318:PX4:H22	4:A:319:PX4:H58	0.42	1.90	5	1
4:A:399:PX4:H20	4:A:408:PX4:H14	0.42	1.89	6	1
4:A:342:PX4:H37	4:A:342:PX4:H32	0.42	1.63	8	1
4:A:426:PX4:H67	4:A:426:PX4:H35	0.42	1.90	8	1
4:A:383:PX4:H69	4:A:429:PX4:H31	0.42	1.92	9	1
4:A:397:PX4:H21	4:A:398:PX4:H48	0.42	1.91	9	1
4:A:379:PX4:H65	4:A:385:PX4:H41	0.42	1.91	10	1
4:A:306:PX4:H21	4:A:364:PX4:H21	0.42	1.92	12	1
4:A:305:PX4:O6	4:A:362:PX4:H4	0.42	2.14	13	1
4:A:379:PX4:H25	4:A:427:PX4:H48	0.42	1.91	15	1
4:A:313:PX4:H62	4:A:313:PX4:H69	0.42	1.64	16	1
4:A:321:PX4:C24	4:A:328:PX4:H48	0.42	2.45	17	1
4:A:379:PX4:H60	4:A:381:PX4:H31	0.42	1.90	17	1
4:A:370:PX4:O1	4:A:426:PX4:H5	0.42	2.15	18	1
4:A:307:PX4:H16	4:A:311:PX4:O1	0.42	2.15	19	1
4:A:399:PX4:H7	4:A:408:PX4:O4	0.42	2.15	20	1
4:A:318:PX4:C8	4:A:323:PX4:H20	0.42	2.45	1	1
4:A:403:PX4:H51	4:A:404:PX4:H55	0.42	1.91	1	1
4:A:428:PX4:H28	4:A:428:PX4:H21	0.42	1.61	1	1
4:A:318:PX4:H20	4:A:319:PX4:H11	0.42	1.91	3	1
4:A:386:PX4:H25	4:A:387:PX4:H54	0.42	1.91	3	1
4:A:326:PX4:H29	4:A:360:PX4:H70	0.42	1.91	4	1
4:A:331:PX4:H27	4:A:331:PX4:H34	0.42	1.60	4	1
4:A:414:PX4:H65	4:A:422:PX4:H56	0.42	1.92	5	1
4:A:311:PX4:H22	4:A:359:PX4:H50	0.42	1.92	7	1
4:A:392:PX4:H55	4:A:409:PX4:C34	0.42	2.39	7	1
4:A:384:PX4:O6	4:A:408:PX4:H11	0.42	2.15	9	2
4:A:330:PX4:H49	4:A:331:PX4:H16	0.42	1.92	10	1
4:A:374:PX4:H58	4:A:382:PX4:H58	0.42	1.92	11	1
4:A:389:PX4:H23	4:A:403:PX4:H21	0.42	1.91	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:374:PX4:H45	4:A:375:PX4:H24	0.42	1.91	13	1
4:A:405:PX4:H52	4:A:405:PX4:H59	0.42	1.66	13	1
4:A:416:PX4:H39	4:A:416:PX4:H34	0.42	1.53	13	1
4:A:321:PX4:H64	4:A:321:PX4:H59	0.42	1.61	15	1
4:A:413:PX4:H55	4:A:413:PX4:H48	0.42	1.59	18	1
4:A:387:PX4:H32	4:A:395:PX4:H35	0.42	1.92	3	1
4:A:371:PX4:H17	4:A:404:PX4:H22	0.42	1.91	5	1
4:A:371:PX4:H16	4:A:388:PX4:H6	0.42	1.91	6	1
4:A:388:PX4:H14	4:A:395:PX4:O1	0.42	2.15	8	1
4:A:379:PX4:H24	4:A:411:PX4:H18	0.42	1.92	9	1
4:A:315:PX4:H62	4:A:315:PX4:H69	0.42	1.40	11	1
4:A:335:PX4:H19	4:A:342:PX4:H58	0.42	1.90	11	1
4:A:365:PX4:H41	4:A:379:PX4:H40	0.42	1.89	11	1
4:A:374:PX4:H45	4:A:374:PX4:H37	0.42	1.60	12	2
4:A:381:PX4:H61	4:A:381:PX4:H55	0.42	1.45	12	1
4:A:336:PX4:O3	4:A:336:PX4:H16	0.42	2.15	13	1
4:A:305:PX4:H25	4:A:328:PX4:H55	0.42	1.91	15	1
4:A:332:PX4:C10	4:A:340:PX4:H16	0.42	2.45	18	2
4:A:321:PX4:H16	4:A:330:PX4:H20	0.42	1.91	17	1
4:A:370:PX4:H51	4:A:419:PX4:H17	0.42	1.90	17	1
4:A:421:PX4:H45	4:A:421:PX4:H37	0.42	1.62	17	1
4:A:431:PX4:H33	4:A:431:PX4:H28	0.42	1.49	17	1
4:A:372:PX4:H45	4:A:372:PX4:H37	0.42	1.74	18	1
4:A:363:PX4:H68	4:A:374:PX4:H59	0.42	1.91	20	1
4:A:355:PX4:H67	4:A:355:PX4:H60	0.42	1.54	1	1
4:A:373:PX4:H49	4:A:421:PX4:H20	0.42	1.91	2	1
4:A:305:PX4:O6	4:A:362:PX4:H13	0.42	2.15	4	1
4:A:330:PX4:H58	4:A:347:PX4:H47	0.42	1.90	4	1
4:A:342:PX4:H13	4:A:342:PX4:O8	0.42	2.15	5	1
4:A:400:PX4:H67	4:A:400:PX4:H60	0.42	1.57	6	1
4:A:321:PX4:H48	4:A:335:PX4:H31	0.42	1.90	8	1
1:A:59:ILE:HD12	1:A:59:ILE:H	0.42	1.73	9	1
4:A:376:PX4:C12	4:A:429:PX4:H31	0.42	2.41	10	1
4:A:405:PX4:H13	4:A:414:PX4:O6	0.42	2.15	11	1
4:A:309:PX4:H42	4:A:352:PX4:H69	0.42	1.92	14	1
4:A:329:PX4:H58	4:A:329:PX4:H65	0.42	1.58	14	1
4:A:341:PX4:H54	4:A:350:PX4:H16	0.42	1.92	15	1
4:A:351:PX4:H24	4:A:351:PX4:H29	0.42	1.41	15	1
4:A:386:PX4:H26	4:A:386:PX4:H31	0.42	1.49	15	1
4:A:329:PX4:H66	4:A:337:PX4:H67	0.42	1.90	16	1
4:A:334:PX4:H54	4:A:334:PX4:H61	0.42	1.20	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:341:PX4:H61	4:A:341:PX4:H38	0.42	1.92	16	1
4:A:338:PX4:H16	4:A:347:PX4:C26	0.42	2.45	17	1
4:A:391:PX4:H51	4:A:400:PX4:H22	0.42	1.92	17	1
4:A:328:PX4:H14	4:A:335:PX4:O2	0.42	2.15	19	1
4:A:343:PX4:H43	4:A:425:PX4:H36	0.42	1.92	19	1
4:A:349:PX4:H40	4:A:349:PX4:H33	0.42	1.61	19	1
4:A:325:PX4:H68	4:A:341:PX4:H68	0.42	1.92	20	1
4:A:409:PX4:H25	4:A:409:PX4:H61	0.42	1.89	20	1
4:A:330:PX4:H60	4:A:331:PX4:H29	0.42	1.92	1	1
4:A:374:PX4:H68	4:A:398:PX4:H44	0.42	1.91	3	1
4:A:404:PX4:H8	4:A:405:PX4:O6	0.42	2.15	3	1
4:A:312:PX4:H66	4:A:312:PX4:H61	0.42	1.60	5	1
1:A:143:HIS:NE2	1:A:171:HIS:CE1	0.42	2.87	6	1
4:A:312:PX4:H9	4:A:312:PX4:O1	0.42	2.15	6	1
4:A:344:PX4:H26	4:A:345:PX4:H26	0.42	1.90	6	1
4:A:390:PX4:H22	4:A:398:PX4:H69	0.42	1.91	10	1
4:A:359:PX4:H29	4:A:359:PX4:H36	0.42	1.36	11	1
4:A:412:PX4:H25	4:A:412:PX4:H20	0.42	1.49	11	1
4:A:360:PX4:H36	4:A:360:PX4:H29	0.42	1.66	13	1
4:A:328:PX4:H53	4:A:335:PX4:H28	0.42	1.91	14	1
4:A:368:PX4:H17	4:A:429:PX4:H47	0.42	1.92	14	1
4:A:372:PX4:H61	4:A:372:PX4:H54	0.42	1.47	14	1
4:A:375:PX4:H17	4:A:421:PX4:H22	0.42	1.91	14	1
4:A:308:PX4:H48	4:A:315:PX4:H53	0.42	1.92	15	1
4:A:386:PX4:H48	4:A:395:PX4:H22	0.42	1.91	15	1
4:A:325:PX4:H29	4:A:348:PX4:H23	0.42	1.90	16	1
4:A:337:PX4:H47	4:A:346:PX4:H19	0.42	1.90	16	1
4:A:320:PX4:H14	4:A:353:PX4:O8	0.42	2.14	18	1
4:A:373:PX4:H51	4:A:381:PX4:H20	0.42	1.90	19	1
4:A:332:PX4:H54	4:A:332:PX4:H61	0.42	1.65	20	1
4:A:360:PX4:H14	4:A:360:PX4:H9	0.42	1.91	20	1
4:A:344:PX4:H39	4:A:344:PX4:H34	0.41	1.59	1	1
4:A:403:PX4:H72	4:A:397:PX4:H32	0.41	1.91	1	1
4:A:370:PX4:H57	4:A:430:PX4:H33	0.41	1.92	2	1
4:A:329:PX4:H53	4:A:336:PX4:C24	0.41	2.45	3	1
4:A:370:PX4:H38	4:A:370:PX4:H31	0.41	1.69	3	1
4:A:354:PX4:H41	4:A:354:PX4:H36	0.41	1.59	4	1
4:A:328:PX4:H36	4:A:338:PX4:H57	0.41	1.92	5	1
4:A:333:PX4:H30	4:A:333:PX4:H35	0.41	1.65	7	1
4:A:338:PX4:H4	4:A:351:PX4:O2	0.41	2.15	7	1
4:A:363:PX4:H69	4:A:415:PX4:H50	0.41	1.90	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:338:PX4:H44	4:A:400:PX4:H42	0.41	1.92	11	1
4:A:368:PX4:H29	4:A:431:PX4:H55	0.41	1.92	12	1
4:A:431:PX4:H53	4:A:431:PX4:H46	0.41	1.68	12	1
4:A:338:PX4:H3	4:A:342:PX4:O3	0.41	2.15	13	1
4:A:363:PX4:H68	4:A:363:PX4:H62	0.41	1.37	13	1
4:A:307:PX4:H52	4:A:310:PX4:H52	0.41	1.91	15	1
4:A:376:PX4:H31	4:A:383:PX4:C15	0.41	2.46	16	1
4:A:387:PX4:H17	4:A:395:PX4:H20	0.41	1.90	16	1
4:A:305:PX4:H60	4:A:305:PX4:H55	0.41	1.64	17	1
4:A:331:PX4:H15	4:A:339:PX4:O1	0.41	2.15	17	1
4:A:396:PX4:H17	4:A:414:PX4:C7	0.41	2.45	19	1
4:A:337:PX4:H62	4:A:347:PX4:H36	0.41	1.92	20	1
4:A:351:PX4:H35	4:A:391:PX4:H43	0.41	1.92	20	1
4:A:337:PX4:H17	4:A:346:PX4:H24	0.41	1.91	1	1
4:A:326:PX4:H51	4:A:343:PX4:H17	0.41	1.91	2	1
4:A:419:PX4:H65	4:A:426:PX4:H39	0.41	1.92	3	1
4:A:379:PX4:H51	4:A:380:PX4:H24	0.41	1.92	4	1
4:A:335:PX4:H48	4:A:342:PX4:H49	0.41	1.92	7	1
4:A:410:PX4:H62	4:A:410:PX4:H30	0.41	1.92	8	1
4:A:381:PX4:H56	4:A:395:PX4:H56	0.41	1.92	9	1
4:A:425:PX4:H25	4:A:425:PX4:H32	0.41	1.62	10	1
4:A:397:PX4:H28	4:A:397:PX4:H21	0.41	1.51	11	1
4:A:305:PX4:O1	4:A:362:PX4:H13	0.41	2.15	13	1
4:A:388:PX4:H22	4:A:394:PX4:H17	0.41	1.91	13	1
4:A:364:PX4:H38	4:A:412:PX4:H42	0.41	1.91	14	1
4:A:331:PX4:H44	4:A:335:PX4:H45	0.41	1.92	15	1
4:A:406:PX4:H23	4:A:416:PX4:H22	0.41	1.92	15	1
4:A:407:PX4:H14	4:A:416:PX4:H51	0.41	1.91	16	1
4:A:417:PX4:C26	4:A:419:PX4:H24	0.41	2.45	18	1
4:A:389:PX4:O6	4:A:403:PX4:H1	0.41	2.15	19	1
4:A:379:PX4:H53	4:A:420:PX4:H43	0.41	1.91	1	1
4:A:383:PX4:H54	4:A:429:PX4:H24	0.41	1.91	1	1
4:A:360:PX4:H66	4:A:360:PX4:H14	0.41	1.92	2	1
4:A:317:PX4:H22	4:A:324:PX4:H26	0.41	1.91	4	1
4:A:326:PX4:H14	4:A:343:PX4:C6	0.41	2.44	4	1
4:A:341:PX4:O6	4:A:351:PX4:H9	0.41	2.15	4	1
4:A:343:PX4:H39	4:A:343:PX4:H69	0.41	1.91	4	1
4:A:310:PX4:H19	4:A:310:PX4:H26	0.41	1.57	5	1
4:A:317:PX4:H11	4:A:343:PX4:H18	0.41	1.91	5	1
4:A:381:PX4:H64	4:A:381:PX4:H72	0.41	1.44	6	1
4:A:335:PX4:H37	4:A:391:PX4:H69	0.41	1.91	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:311:PX4:H72	4:A:412:PX4:H38	0.41	1.91	11	1
4:A:329:PX4:H34	4:A:351:PX4:H50	0.41	1.90	12	1
4:A:355:PX4:H35	4:A:356:PX4:H55	0.41	1.92	13	1
4:A:414:PX4:H52	4:A:431:PX4:H22	0.41	1.92	13	1
4:A:384:PX4:H51	4:A:386:PX4:H47	0.41	1.92	14	1
4:A:396:PX4:H68	4:A:396:PX4:H63	0.41	1.48	15	1
4:A:314:PX4:H54	4:A:361:PX4:H19	0.41	1.92	16	1
4:A:417:PX4:H3	4:A:423:PX4:H49	0.41	1.90	16	1
4:A:366:PX4:H62	4:A:366:PX4:H69	0.41	1.39	17	1
4:A:338:PX4:H6	4:A:342:PX4:O4	0.41	2.14	19	1
4:A:308:PX4:H34	4:A:308:PX4:H39	0.41	1.62	20	1
4:A:322:PX4:H36	4:A:332:PX4:H53	0.41	1.91	20	1
4:A:352:PX4:H50	4:A:352:PX4:H57	0.41	1.70	20	1
4:A:378:PX4:H46	4:A:411:PX4:O1	0.41	2.15	20	1
4:A:340:PX4:H52	4:A:340:PX4:H59	0.41	1.55	3	1
4:A:381:PX4:H2	4:A:381:PX4:H18	0.41	1.92	3	1
4:A:346:PX4:H69	4:A:346:PX4:H62	0.41	1.59	4	1
4:A:312:PX4:H3	4:A:319:PX4:O1	0.41	2.15	6	1
4:A:368:PX4:H19	4:A:429:PX4:H50	0.41	1.93	7	1
4:A:387:PX4:H25	4:A:395:PX4:H40	0.41	1.93	7	1
4:A:378:PX4:H3	4:A:385:PX4:O4	0.41	2.14	8	1
4:A:370:PX4:H37	4:A:370:PX4:H45	0.41	1.46	11	1
4:A:372:PX4:H55	4:A:372:PX4:H48	0.41	1.55	11	1
4:A:418:PX4:H47	4:A:427:PX4:H19	0.41	1.91	11	1
4:A:360:PX4:H48	4:A:360:PX4:H55	0.41	1.69	14	1
4:A:381:PX4:H21	4:A:385:PX4:H25	0.41	1.92	15	1
4:A:306:PX4:H19	4:A:314:PX4:H17	0.41	1.93	20	2
4:A:308:PX4:H19	4:A:319:PX4:H15	0.41	1.92	16	1
4:A:315:PX4:H14	4:A:315:PX4:H12	0.41	1.92	16	1
4:A:340:PX4:H70	4:A:380:PX4:H69	0.41	1.92	16	1
4:A:349:PX4:H48	4:A:350:PX4:H54	0.41	1.91	16	1
4:A:346:PX4:H52	4:A:346:PX4:H47	0.41	1.65	17	1
4:A:350:PX4:H39	4:A:350:PX4:H33	0.41	1.70	17	1
4:A:348:PX4:H60	4:A:356:PX4:H61	0.41	1.90	18	1
4:A:386:PX4:H66	4:A:394:PX4:H62	0.41	1.92	18	1
4:A:403:PX4:H3	4:A:412:PX4:O1	0.41	2.16	18	1
4:A:411:PX4:H36	4:A:426:PX4:H42	0.41	1.92	18	1
4:A:346:PX4:H47	4:A:347:PX4:H18	0.41	1.92	19	1
4:A:350:PX4:H48	4:A:350:PX4:H26	0.41	1.93	19	1
4:A:401:PX4:H15	4:A:410:PX4:C8	0.41	2.45	19	1
4:A:322:PX4:H40	4:A:332:PX4:H56	0.41	1.92	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:329:PX4:H23	4:A:329:PX4:H30	0.41	1.67	20	1
1:A:83:LYS:CD	1:A:237:LEU:HD22	0.41	2.46	1	1
4:A:361:PX4:H57	4:A:361:PX4:H50	0.41	1.66	2	1
4:A:371:PX4:H22	4:A:404:PX4:H25	0.41	1.91	2	1
4:A:384:PX4:H48	4:A:400:PX4:O6	0.41	2.16	2	1
4:A:396:PX4:H29	4:A:396:PX4:H36	0.41	1.61	2	1
4:A:318:PX4:H58	4:A:340:PX4:H23	0.41	1.92	3	1
4:A:333:PX4:H44	4:A:389:PX4:H63	0.41	1.91	3	1
4:A:358:PX4:H26	4:A:358:PX4:H19	0.41	1.57	4	1
4:A:361:PX4:H45	4:A:427:PX4:H70	0.41	1.91	4	1
4:A:397:PX4:H52	4:A:397:PX4:H59	0.41	1.66	5	1
4:A:337:PX4:H71	4:A:346:PX4:H41	0.41	1.90	6	1
4:A:424:PX4:H24	4:A:430:PX4:H33	0.41	1.92	6	1
4:A:307:PX4:H21	4:A:363:PX4:C13	0.41	2.39	7	1
4:A:312:PX4:C9	4:A:319:PX4:H17	0.41	2.46	7	1
4:A:332:PX4:H33	4:A:340:PX4:H63	0.41	1.92	8	1
4:A:404:PX4:H20	4:A:404:PX4:H26	0.41	1.65	8	1
1:A:194:HIS:CD2	1:A:198:HIS:NE2	0.41	2.89	9	1
4:A:400:PX4:H15	4:A:400:PX4:H13	0.41	1.91	10	1
4:A:371:PX4:H16	4:A:418:PX4:H20	0.41	1.90	11	1
4:A:306:PX4:H70	4:A:389:PX4:H41	0.41	1.91	12	1
4:A:375:PX4:H52	4:A:382:PX4:H50	0.41	1.92	16	1
4:A:312:PX4:H33	4:A:367:PX4:H37	0.41	1.92	18	1
4:A:414:PX4:H22	4:A:431:PX4:H28	0.41	1.92	18	1
4:A:315:PX4:H72	4:A:319:PX4:H27	0.41	1.93	19	1
4:A:350:PX4:H71	4:A:350:PX4:H65	0.41	1.57	19	1
4:A:372:PX4:H14	4:A:373:PX4:H2	0.41	1.92	20	1
4:A:388:PX4:H1	4:A:412:PX4:C25	0.41	2.46	20	1
4:A:352:PX4:H17	4:A:365:PX4:C11	0.41	2.41	1	1
4:A:381:PX4:H17	4:A:385:PX4:H21	0.41	1.92	1	1
4:A:346:PX4:H36	4:A:346:PX4:H67	0.41	1.93	2	1
4:A:373:PX4:H55	4:A:380:PX4:H62	0.41	1.92	2	1
4:A:392:PX4:H21	4:A:409:PX4:H57	0.41	1.92	5	1
4:A:311:PX4:H51	4:A:311:PX4:H56	0.41	1.50	6	1
4:A:322:PX4:H31	4:A:322:PX4:H26	0.41	1.56	6	1
4:A:406:PX4:H11	4:A:416:PX4:O6	0.41	2.15	6	1
4:A:339:PX4:H11	4:A:340:PX4:H48	0.41	1.92	7	1
4:A:347:PX4:H45	4:A:412:PX4:H70	0.41	1.92	7	1
4:A:401:PX4:H18	4:A:427:PX4:O7	0.41	2.16	8	1
4:A:323:PX4:H55	4:A:340:PX4:H52	0.41	1.91	10	1
4:A:360:PX4:H53	4:A:367:PX4:H50	0.41	1.92	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:390:PX4:H31	4:A:429:PX4:H34	0.41	1.93	10	1
4:A:314:PX4:H36	4:A:345:PX4:H29	0.41	1.91	11	1
4:A:322:PX4:H34	4:A:332:PX4:H17	0.41	1.91	11	1
4:A:362:PX4:H72	4:A:426:PX4:H44	0.41	1.93	12	1
4:A:347:PX4:H38	4:A:355:PX4:H37	0.41	1.93	13	1
4:A:309:PX4:H55	4:A:309:PX4:H60	0.41	1.57	15	1
4:A:332:PX4:H25	4:A:340:PX4:H22	0.41	1.90	15	1
4:A:312:PX4:H51	4:A:319:PX4:H46	0.41	1.92	19	1
4:A:313:PX4:H58	4:A:313:PX4:H65	0.41	1.50	19	1
4:A:418:PX4:H51	4:A:418:PX4:H56	0.41	1.47	19	1
4:A:365:PX4:H36	4:A:365:PX4:H41	0.41	1.50	20	1
4:A:310:PX4:H68	4:A:363:PX4:H25	0.41	1.92	6	1
4:A:327:PX4:H35	4:A:334:PX4:H39	0.41	1.91	6	1
4:A:331:PX4:H63	4:A:347:PX4:H22	0.41	1.93	6	1
4:A:384:PX4:H4	4:A:393:PX4:O5	0.41	2.15	8	1
4:A:316:PX4:H10	4:A:333:PX4:H15	0.41	1.93	9	1
4:A:318:PX4:H39	4:A:319:PX4:H65	0.41	1.91	9	1
1:A:98:ARG:NH1	4:A:330:PX4:O1	0.41	2.53	10	1
4:A:342:PX4:H62	4:A:342:PX4:H69	0.41	1.69	10	1
4:A:386:PX4:H38	4:A:386:PX4:H32	0.41	1.59	10	1
4:A:307:PX4:H24	4:A:311:PX4:H47	0.41	1.92	11	1
4:A:321:PX4:H23	4:A:321:PX4:H30	0.41	1.68	11	1
4:A:329:PX4:H63	4:A:344:PX4:H52	0.41	1.92	13	1
4:A:336:PX4:H62	4:A:336:PX4:H57	0.41	1.72	13	1
4:A:336:PX4:H62	4:A:366:PX4:H49	0.41	1.93	13	1
4:A:376:PX4:H7	4:A:376:PX4:O1	0.41	2.15	14	1
1:A:116:TRP:CH2	1:A:211:VAL:HG11	0.41	2.50	15	1
4:A:329:PX4:H65	4:A:337:PX4:H36	0.41	1.92	15	1
4:A:384:PX4:O6	4:A:394:PX4:H68	0.41	2.14	15	1
4:A:386:PX4:H36	4:A:386:PX4:H29	0.41	1.63	16	1
4:A:398:PX4:H25	4:A:398:PX4:H20	0.41	1.57	16	1
4:A:336:PX4:O6	4:A:358:PX4:H15	0.41	2.16	17	1
4:A:344:PX4:H51	4:A:346:PX4:H24	0.41	1.93	17	1
4:A:346:PX4:H59	4:A:347:PX4:H57	0.41	1.92	17	1
4:A:395:PX4:H32	4:A:395:PX4:H25	0.41	1.45	17	1
4:A:430:PX4:O6	4:A:430:PX4:H12	0.41	2.15	18	1
4:A:308:PX4:H68	4:A:322:PX4:H70	0.41	1.93	20	1
4:A:387:PX4:H27	4:A:387:PX4:H33	0.41	1.70	1	1
4:A:340:PX4:H32	4:A:421:PX4:H43	0.41	1.92	2	1
4:A:374:PX4:H18	4:A:398:PX4:H19	0.41	1.92	4	1
4:A:347:PX4:H69	4:A:351:PX4:H31	0.41	1.92	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:351:PX4:H33	4:A:391:PX4:H68	0.41	1.92	5	1
4:A:351:PX4:H37	4:A:391:PX4:H65	0.41	1.92	5	1
4:A:308:PX4:H10	4:A:359:PX4:O8	0.41	2.15	6	1
4:A:326:PX4:H11	4:A:353:PX4:O6	0.41	2.15	6	1
4:A:339:PX4:C7	4:A:355:PX4:H58	0.41	2.46	6	1
4:A:330:PX4:H33	4:A:332:PX4:H35	0.41	1.91	10	1
4:A:331:PX4:H43	4:A:387:PX4:H63	0.41	1.92	10	1
4:A:324:PX4:H44	4:A:398:PX4:H37	0.41	1.93	11	1
4:A:347:PX4:H30	4:A:356:PX4:H59	0.41	1.92	11	1
4:A:318:PX4:H63	4:A:318:PX4:H68	0.41	1.62	13	1
4:A:334:PX4:H23	4:A:335:PX4:H66	0.41	1.91	13	1
4:A:338:PX4:H41	4:A:338:PX4:H36	0.41	1.55	13	1
4:A:368:PX4:H67	4:A:424:PX4:H62	0.41	1.92	13	1
4:A:376:PX4:H45	4:A:376:PX4:H37	0.41	1.43	13	1
4:A:360:PX4:H50	4:A:360:PX4:H57	0.41	1.70	15	1
4:A:377:PX4:H68	4:A:377:PX4:H63	0.41	1.75	15	1
4:A:403:PX4:H55	4:A:404:PX4:H51	0.41	1.93	15	1
4:A:328:PX4:H27	4:A:342:PX4:H55	0.41	1.92	17	1
4:A:333:PX4:H44	4:A:374:PX4:H68	0.41	1.93	17	1
4:A:317:PX4:H17	4:A:318:PX4:H4	0.41	1.93	18	1
4:A:324:PX4:H49	4:A:339:PX4:H15	0.41	1.93	18	1
4:A:409:PX4:H68	4:A:410:PX4:H69	0.41	1.92	18	1
4:A:360:PX4:H50	4:A:360:PX4:H32	0.41	1.93	19	1
4:A:378:PX4:H26	4:A:387:PX4:H29	0.41	1.93	1	1
4:A:313:PX4:H52	4:A:333:PX4:H55	0.41	1.93	2	1
4:A:378:PX4:H3	4:A:385:PX4:H17	0.41	1.92	3	1
4:A:423:PX4:H55	4:A:426:PX4:H26	0.41	1.92	3	1
4:A:312:PX4:H44	4:A:318:PX4:H36	0.41	1.93	4	1
4:A:383:PX4:H35	4:A:389:PX4:H17	0.41	1.92	4	1
4:A:325:PX4:O2	4:A:349:PX4:H4	0.41	2.15	5	1
4:A:391:PX4:H31	4:A:391:PX4:H26	0.41	1.50	5	1
4:A:409:PX4:H9	4:A:409:PX4:O4	0.41	2.16	5	1
4:A:415:PX4:H29	4:A:415:PX4:H24	0.41	1.59	5	1
4:A:330:PX4:H15	4:A:331:PX4:O4	0.41	2.16	6	1
4:A:389:PX4:H37	4:A:389:PX4:H32	0.41	1.36	6	1
4:A:326:PX4:H64	4:A:326:PX4:H71	0.41	1.67	7	1
4:A:338:PX4:H29	4:A:338:PX4:H36	0.41	1.29	7	1
4:A:349:PX4:H69	4:A:375:PX4:H33	0.41	1.93	9	1
4:A:373:PX4:H58	4:A:381:PX4:H54	0.41	1.92	10	1
4:A:388:PX4:H49	4:A:388:PX4:H54	0.41	1.51	10	1
4:A:391:PX4:H33	4:A:391:PX4:H40	0.41	1.65	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:399:PX4:H20	4:A:399:PX4:H25	0.41	1.61	10	1
4:A:423:PX4:H58	4:A:423:PX4:H64	0.41	1.67	10	1
4:A:375:PX4:H68	4:A:421:PX4:H27	0.41	1.91	12	1
4:A:339:PX4:H51	4:A:355:PX4:H64	0.41	1.92	13	1
4:A:384:PX4:H2	4:A:393:PX4:O4	0.41	2.15	14	1
4:A:345:PX4:H40	4:A:345:PX4:H34	0.41	1.67	15	1
4:A:366:PX4:H41	4:A:366:PX4:H36	0.41	1.69	15	1
4:A:307:PX4:H33	4:A:363:PX4:H41	0.41	1.92	16	1
4:A:338:PX4:H71	4:A:338:PX4:H65	0.41	1.49	16	1
4:A:369:PX4:H20	4:A:369:PX4:H26	0.41	1.51	16	1
4:A:374:PX4:H26	4:A:374:PX4:H31	0.41	1.60	16	1
4:A:376:PX4:H55	4:A:429:PX4:H45	0.41	1.92	16	1
4:A:411:PX4:H34	4:A:426:PX4:H31	0.41	1.93	16	1
4:A:321:PX4:H26	4:A:330:PX4:H54	0.41	1.93	17	1
4:A:344:PX4:H49	4:A:344:PX4:H54	0.41	1.48	17	1
4:A:357:PX4:H28	4:A:357:PX4:H22	0.41	1.61	17	1
4:A:379:PX4:H59	4:A:428:PX4:H64	0.41	1.93	17	1
4:A:388:PX4:H17	4:A:388:PX4:H13	0.41	1.93	17	1
4:A:402:PX4:H18	4:A:418:PX4:H27	0.41	1.92	17	1
4:A:312:PX4:H60	4:A:312:PX4:H54	0.41	1.64	18	1
4:A:381:PX4:H69	4:A:381:PX4:H62	0.41	1.60	18	1
1:A:72:VAL:HG13	1:A:74:GLU:HB3	0.41	1.91	19	1
4:A:326:PX4:H22	4:A:326:PX4:H52	0.41	1.93	19	1
4:A:349:PX4:H14	4:A:363:PX4:C6	0.41	2.46	19	1
4:A:390:PX4:H29	4:A:390:PX4:H36	0.41	1.61	19	1
4:A:406:PX4:H25	4:A:409:PX4:H32	0.41	1.92	19	1
4:A:374:PX4:H17	4:A:398:PX4:H8	0.41	1.91	20	1
4:A:372:PX4:H25	4:A:421:PX4:H26	0.41	1.90	2	1
4:A:358:PX4:H60	4:A:358:PX4:H55	0.41	1.60	7	1
4:A:383:PX4:H26	4:A:398:PX4:H53	0.41	1.93	7	1
4:A:307:PX4:H25	4:A:313:PX4:H52	0.41	1.92	8	1
4:A:309:PX4:H34	4:A:309:PX4:H40	0.41	1.69	8	1
4:A:326:PX4:H41	4:A:360:PX4:H27	0.41	1.92	8	1
4:A:350:PX4:H55	4:A:350:PX4:H61	0.41	1.66	8	1
4:A:393:PX4:H34	4:A:400:PX4:H42	0.41	1.92	8	1
4:A:405:PX4:H31	4:A:405:PX4:H26	0.41	1.32	9	1
4:A:315:PX4:H54	4:A:319:PX4:H45	0.41	1.91	10	1
4:A:341:PX4:H31	4:A:341:PX4:H38	0.41	1.65	11	1
4:A:341:PX4:H67	4:A:341:PX4:H60	0.41	1.60	11	1
4:A:349:PX4:H55	4:A:349:PX4:H60	0.41	1.79	12	1
4:A:346:PX4:H59	4:A:347:PX4:H56	0.41	1.92	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:382:PX4:O8	4:A:398:PX4:H5	0.41	2.16	13	1
4:A:391:PX4:H58	4:A:400:PX4:H62	0.41	1.93	13	1
4:A:352:PX4:H29	4:A:352:PX4:H35	0.41	1.69	14	1
4:A:348:PX4:H37	4:A:348:PX4:H32	0.41	1.63	15	1
4:A:392:PX4:H37	4:A:392:PX4:H31	0.41	1.61	15	1
4:A:414:PX4:H63	4:A:422:PX4:H53	0.41	1.93	15	1
4:A:305:PX4:C29	4:A:320:PX4:H54	0.41	2.46	16	1
4:A:384:PX4:H60	4:A:395:PX4:H35	0.41	1.92	17	1
4:A:394:PX4:H8	4:A:395:PX4:O2	0.41	2.16	17	1
4:A:429:PX4:H64	4:A:429:PX4:H59	0.41	1.63	18	1
4:A:305:PX4:H13	4:A:362:PX4:O1	0.41	2.16	19	1
4:A:375:PX4:H16	4:A:382:PX4:H3	0.41	1.92	20	1
1:A:214:PRO:C	1:A:216:TYR:H	0.40	2.23	1	1
4:A:375:PX4:H5	4:A:413:PX4:H58	0.40	1.92	1	1
4:A:379:PX4:H33	4:A:427:PX4:H32	0.40	1.93	1	1
4:A:385:PX4:H28	4:A:387:PX4:H30	0.40	1.93	1	1
4:A:318:PX4:H41	4:A:319:PX4:H38	0.40	1.93	2	1
4:A:353:PX4:H41	4:A:353:PX4:H36	0.40	1.67	2	1
4:A:419:PX4:H30	4:A:424:PX4:H33	0.40	1.93	2	1
4:A:377:PX4:H27	4:A:411:PX4:H31	0.40	1.92	3	1
4:A:397:PX4:H32	4:A:397:PX4:H37	0.40	1.70	3	1
4:A:307:PX4:H23	4:A:307:PX4:H30	0.40	1.72	4	1
4:A:354:PX4:H25	4:A:354:PX4:C28	0.40	2.46	4	1
4:A:362:PX4:H39	4:A:362:PX4:H70	0.40	1.93	6	1
4:A:329:PX4:O5	4:A:338:PX4:H24	0.40	2.16	7	1
4:A:399:PX4:C10	4:A:408:PX4:H14	0.40	2.46	7	1
4:A:336:PX4:H25	4:A:351:PX4:H57	0.40	1.91	9	1
4:A:413:PX4:H25	4:A:431:PX4:H50	0.40	1.92	9	1
4:A:312:PX4:H35	4:A:312:PX4:H30	0.40	1.53	10	1
4:A:370:PX4:H66	4:A:425:PX4:H66	0.40	1.93	10	1
4:A:377:PX4:C35	4:A:391:PX4:H58	0.40	2.44	10	1
4:A:321:PX4:H30	4:A:321:PX4:H35	0.40	1.64	11	1
4:A:361:PX4:H59	4:A:365:PX4:C16	0.40	2.45	11	1
4:A:336:PX4:H27	4:A:336:PX4:H34	0.40	1.57	13	1
4:A:313:PX4:H36	4:A:314:PX4:H27	0.40	1.92	14	1
4:A:368:PX4:H44	4:A:429:PX4:H67	0.40	1.92	14	1
4:A:387:PX4:H38	4:A:387:PX4:H31	0.40	1.55	14	1
4:A:370:PX4:H47	4:A:419:PX4:O6	0.40	2.16	15	1
4:A:415:PX4:H28	4:A:415:PX4:H21	0.40	1.50	16	1
4:A:312:PX4:O1	4:A:327:PX4:H13	0.40	2.15	17	1
4:A:329:PX4:H47	4:A:338:PX4:H24	0.40	1.92	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:326:PX4:O6	4:A:327:PX4:H14	0.40	2.16	18	1
4:A:430:PX4:H54	4:A:430:PX4:H49	0.40	1.55	19	1
4:A:307:PX4:H17	4:A:363:PX4:H22	0.40	1.92	1	1
4:A:329:PX4:H63	4:A:338:PX4:H38	0.40	1.92	1	1
4:A:372:PX4:H34	4:A:373:PX4:H41	0.40	1.94	4	1
4:A:352:PX4:H43	4:A:409:PX4:H43	0.40	1.93	5	1
4:A:368:PX4:H48	4:A:429:PX4:H49	0.40	1.92	5	1
4:A:384:PX4:H26	4:A:391:PX4:H56	0.40	1.91	6	1
4:A:429:PX4:H59	4:A:429:PX4:H52	0.40	1.60	7	1
4:A:357:PX4:H68	4:A:357:PX4:H63	0.40	1.48	9	1
4:A:310:PX4:C28	4:A:363:PX4:H51	0.40	2.40	10	1
4:A:309:PX4:H56	4:A:309:PX4:H62	0.40	1.71	11	1
4:A:316:PX4:H49	4:A:316:PX4:H54	0.40	1.64	15	1
4:A:389:PX4:H47	4:A:398:PX4:H17	0.40	1.91	15	1
4:A:348:PX4:H54	4:A:356:PX4:H48	0.40	1.94	16	1
4:A:352:PX4:H12	4:A:352:PX4:H2	0.40	1.62	17	1
4:A:331:PX4:H41	4:A:339:PX4:H45	0.40	1.91	18	1
4:A:406:PX4:C13	4:A:409:PX4:H32	0.40	2.45	19	1
4:A:415:PX4:H30	4:A:415:PX4:H35	0.40	1.73	19	1
4:A:306:PX4:H72	4:A:348:PX4:H35	0.40	1.93	20	1
4:A:379:PX4:H48	4:A:379:PX4:H55	0.40	1.74	20	1
4:A:334:PX4:H57	4:A:334:PX4:H50	0.40	1.73	1	1
4:A:420:PX4:H30	4:A:420:PX4:H35	0.40	1.61	3	1
4:A:330:PX4:O2	4:A:339:PX4:H9	0.40	2.16	4	1
4:A:378:PX4:O7	4:A:381:PX4:H11	0.40	2.16	5	1
4:A:384:PX4:H57	4:A:384:PX4:H51	0.40	1.77	5	1
4:A:328:PX4:O5	4:A:335:PX4:H14	0.40	2.16	6	1
4:A:312:PX4:O2	4:A:327:PX4:H3	0.40	2.16	7	1
4:A:318:PX4:H41	4:A:421:PX4:H69	0.40	1.92	7	1
4:A:354:PX4:H21	4:A:354:PX4:H28	0.40	1.20	7	1
4:A:370:PX4:H23	4:A:377:PX4:H26	0.40	1.93	8	1
4:A:391:PX4:H45	4:A:391:PX4:H37	0.40	1.71	8	1
4:A:306:PX4:H54	4:A:349:PX4:H29	0.40	1.94	9	1
4:A:414:PX4:H27	4:A:414:PX4:H33	0.40	1.54	9	1
4:A:328:PX4:H34	4:A:328:PX4:H39	0.40	1.57	10	1
4:A:332:PX4:H23	4:A:332:PX4:H30	0.40	1.69	10	1
4:A:349:PX4:H14	4:A:363:PX4:O1	0.40	2.17	10	1
4:A:395:PX4:H59	4:A:412:PX4:H58	0.40	1.92	10	1
4:A:312:PX4:H52	4:A:317:PX4:H22	0.40	1.93	11	1
4:A:386:PX4:H38	4:A:387:PX4:H35	0.40	1.92	11	1
4:A:315:PX4:H64	4:A:315:PX4:H72	0.40	1.56	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:393:PX4:H5	4:A:402:PX4:O1	0.40	2.17	14	1
4:A:423:PX4:H59	4:A:426:PX4:H54	0.40	1.93	14	1
1:A:213:TYR:CG	1:A:214:PRO:HD2	0.40	2.51	15	1
4:A:305:PX4:H19	4:A:328:PX4:H52	0.40	1.93	16	1
4:A:326:PX4:H40	4:A:353:PX4:H42	0.40	1.93	16	1
4:A:320:PX4:H37	4:A:328:PX4:H33	0.40	1.92	19	1
4:A:368:PX4:H72	4:A:430:PX4:H27	0.40	1.92	19	1
4:A:393:PX4:O6	4:A:408:PX4:H5	0.40	2.16	19	1
4:A:394:PX4:H34	4:A:394:PX4:H27	0.40	1.44	19	1
4:A:402:PX4:H64	4:A:410:PX4:H63	0.40	1.93	19	1
4:A:408:PX4:H63	4:A:408:PX4:H68	0.40	1.74	19	1
4:A:330:PX4:H15	4:A:331:PX4:C8	0.40	2.44	20	1
4:A:391:PX4:H35	4:A:391:PX4:H30	0.40	1.70	20	1
4:A:318:PX4:H17	4:A:323:PX4:H23	0.40	1.92	1	1
4:A:423:PX4:H55	4:A:426:PX4:C11	0.40	2.44	2	1
4:A:316:PX4:H9	4:A:316:PX4:H14	0.40	1.92	3	1
1:A:129:TRP:CE2	4:A:313:PX4:H3	0.40	2.51	5	1
4:A:310:PX4:H38	4:A:310:PX4:H31	0.40	1.73	5	1
4:A:406:PX4:H34	4:A:406:PX4:H27	0.40	1.53	5	1
4:A:318:PX4:H44	4:A:375:PX4:H42	0.40	1.92	6	1
4:A:341:PX4:O6	4:A:357:PX4:H5	0.40	2.16	6	1
4:A:346:PX4:H52	4:A:347:PX4:H49	0.40	1.92	6	1
4:A:353:PX4:H15	4:A:353:PX4:O8	0.40	2.15	6	1
4:A:420:PX4:H33	4:A:420:PX4:H28	0.40	1.75	8	1
4:A:418:PX4:H2	4:A:427:PX4:O1	0.40	2.16	9	1
4:A:321:PX4:H54	4:A:335:PX4:H23	0.40	1.92	10	1
4:A:374:PX4:H34	4:A:375:PX4:H21	0.40	1.93	10	1
4:A:330:PX4:C27	4:A:331:PX4:H21	0.40	2.42	12	1
4:A:384:PX4:H58	4:A:395:PX4:H27	0.40	1.93	13	1
4:A:305:PX4:H56	4:A:362:PX4:H56	0.40	1.93	16	1
4:A:323:PX4:H59	4:A:340:PX4:H56	0.40	1.93	17	1
4:A:342:PX4:H16	4:A:351:PX4:H22	0.40	1.92	17	1
4:A:383:PX4:H65	4:A:429:PX4:H36	0.40	1.94	17	1
4:A:318:PX4:H22	4:A:318:PX4:H28	0.40	1.65	19	1
4:A:325:PX4:H56	4:A:349:PX4:H58	0.40	1.93	19	1
4:A:419:PX4:O4	4:A:426:PX4:H10	0.40	2.16	19	1
4:A:318:PX4:H2	4:A:323:PX4:H1	0.40	1.94	1	1
4:A:431:PX4:H72	4:A:431:PX4:H64	0.40	1.74	2	1
4:A:397:PX4:H56	4:A:397:PX4:H50	0.40	1.67	3	1
4:A:343:PX4:H54	4:A:353:PX4:H27	0.40	1.93	4	1
4:A:365:PX4:H45	4:A:379:PX4:H43	0.40	1.92	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:370:PX4:H30	4:A:377:PX4:H35	0.40	1.93	4	1
4:A:378:PX4:H69	4:A:380:PX4:H38	0.40	1.94	4	1
4:A:313:PX4:H34	4:A:364:PX4:H30	0.40	1.94	6	1
4:A:390:PX4:H26	4:A:397:PX4:H59	0.40	1.94	6	1
4:A:408:PX4:H28	4:A:416:PX4:H36	0.40	1.94	6	1
4:A:316:PX4:H59	4:A:317:PX4:H52	0.40	1.93	8	1
4:A:316:PX4:H20	4:A:325:PX4:H50	0.40	1.92	9	1
4:A:331:PX4:H46	4:A:331:PX4:H16	0.40	1.64	9	1
4:A:345:PX4:H53	4:A:354:PX4:H53	0.40	1.94	9	1
4:A:416:PX4:H58	4:A:417:PX4:H21	0.40	1.94	11	1
4:A:374:PX4:H71	4:A:398:PX4:H35	0.40	1.93	12	1
4:A:354:PX4:H50	4:A:354:PX4:H21	0.40	1.94	13	1
4:A:373:PX4:H48	4:A:375:PX4:H52	0.40	1.94	13	1
4:A:341:PX4:H31	4:A:341:PX4:H26	0.40	1.62	15	1
4:A:314:PX4:H47	4:A:364:PX4:H20	0.40	1.93	16	1
4:A:316:PX4:H47	4:A:325:PX4:C28	0.40	2.45	16	1
4:A:344:PX4:H47	4:A:344:PX4:H52	0.40	1.30	16	1
4:A:398:PX4:H67	4:A:398:PX4:H60	0.40	1.69	16	1
4:A:413:PX4:O1	4:A:428:PX4:H11	0.40	2.17	16	1
4:A:343:PX4:H54	4:A:353:PX4:H30	0.40	1.94	17	1
4:A:366:PX4:H58	4:A:366:PX4:H53	0.40	1.66	17	1
4:A:315:PX4:H39	4:A:388:PX4:H57	0.40	1.93	18	1
4:A:405:PX4:H19	4:A:414:PX4:H24	0.40	1.93	18	1
4:A:420:PX4:H63	4:A:420:PX4:H68	0.40	1.43	18	1
4:A:341:PX4:H34	4:A:341:PX4:H27	0.40	1.64	19	1
4:A:385:PX4:H46	4:A:385:PX4:H53	0.40	1.32	19	1
4:A:332:PX4:H34	4:A:340:PX4:H53	0.40	1.93	20	1
4:A:368:PX4:H38	4:A:368:PX4:H44	0.40	1.58	20	1

6.3 Torsion angles ⓘ

6.3.1 Protein backbone ⓘ

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	229/248 (92%)	202±3 (88±1%)	20±3 (9±1%)	8±2 (3±1%)	5	35

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	4580/4960 (92%)	4036 (88%)	391 (9%)	153 (3%)	5	35

All 32 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	155	THR	20
1	A	65	PRO	17
1	A	31	ASN	15
1	A	150	ASP	13
1	A	74	GLU	11
1	A	147	TYR	11
1	A	24	LEU	9
1	A	80	ASN	6
1	A	76	SER	5
1	A	141	GLY	5
1	A	75	TYR	5
1	A	121	PRO	3
1	A	162	PRO	3
1	A	144	GLY	3
1	A	148	PRO	3
1	A	56	SER	3
1	A	154	ASN	2
1	A	70	PRO	2
1	A	166	LEU	2
1	A	72	VAL	2
1	A	81	SER	2
1	A	103	ILE	1
1	A	215	THR	1
1	A	214	PRO	1
1	A	73	ALA	1
1	A	142	ALA	1
1	A	211	VAL	1
1	A	232	LYS	1
1	A	11	GLN	1
1	A	164	THR	1
1	A	216	TYR	1
1	A	167	GLY	1

6.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all 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	190/206 (92%)	182±2 (96±1%)	8±2 (4±1%)	27	78
All	All	3800/4120 (92%)	3638 (96%)	162 (4%)	27	78

All 61 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)
1	A	155	THR	13
1	A	150	ASP	13
1	A	216	TYR	9
1	A	180	ASP	8
1	A	54	LEU	7
1	A	174	GLU	6
1	A	156	LEU	6
1	A	175	ASP	6
1	A	66	ARG	5
1	A	60	GLU	5
1	A	26	ASP	5
1	A	222	GLN	4
1	A	77	LEU	4
1	A	171	HIS	4
1	A	184	LEU	4
1	A	128	VAL	3
1	A	179	THR	3
1	A	65	PRO	3
1	A	177	ARG	3
1	A	63	GLN	2
1	A	138	PHE	2
1	A	230	ASP	2
1	A	85	THR	2
1	A	122	LEU	2
1	A	64	LYS	2
1	A	176	GLU	2
1	A	231	ILE	2
1	A	131	THR	2
1	A	164	THR	1

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Mol	Chain	Res	Type	Models (Total)
1	A	72	VAL	1
1	A	189	LEU	1
1	A	205	SER	1
1	A	17	ASP	1
1	A	81	SER	1
1	A	92	ARG	1
1	A	41	GLU	1
1	A	135	MET	1
1	A	206	SER	1
1	A	35	LEU	1
1	A	123	HIS	1
1	A	69	VAL	1
1	A	104	THR	1
1	A	118	LYS	1
1	A	223	ASN	1
1	A	114	ASN	1
1	A	39	LEU	1
1	A	220	ASP	1
1	A	83	LYS	1
1	A	148	PRO	1
1	A	38	LYS	1
1	A	71	ASP	1
1	A	90	THR	1
1	A	12	TRP	1
1	A	97	THR	1
1	A	209	ASN	1
1	A	93	ILE	1
1	A	186	ILE	1
1	A	207	ASP	1
1	A	235	GLN	1
1	A	48	LEU	1
1	A	50	ILE	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

Of 131 ligands modelled in this entry, 4 are monoatomic - leaving 127 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
4	PX4	A	383	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	398	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	357	-	45,45,45	0.64±0.01	0±0 (0±0%)
4	PX4	A	422	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	312	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	322	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	401	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	390	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	416	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	402	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	345	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	325	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	409	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	314	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	363	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	372	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	417	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	362	-	45,45,45	0.64±0.01	0±0 (0±0%)
4	PX4	A	305	-	45,45,45	0.64±0.01	0±0 (0±0%)
4	PX4	A	359	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	373	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	349	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	336	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	327	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	395	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	397	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	377	-	45,45,45	0.64±0.00	0±0 (0±0%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
4	PX4	A	328	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	375	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	403	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	364	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	307	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	318	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	380	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	348	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	370	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	352	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	317	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	361	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	371	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	410	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	331	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	407	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	339	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	388	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	354	-	45,45,45	0.64±0.01	0±0 (0±0%)
4	PX4	A	384	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	323	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	350	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	309	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	368	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	358	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	424	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	414	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	360	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	356	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	420	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	343	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	381	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	408	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	340	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	346	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	404	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	321	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	347	-	45,45,45	0.64±0.01	0±0 (0±0%)
4	PX4	A	369	-	45,45,45	0.64±0.01	0±0 (0±0%)
4	PX4	A	306	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	344	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	334	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	411	-	45,45,45	0.64±0.00	0±0 (0±0%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
4	PX4	A	426	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	425	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	376	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	355	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	320	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	382	-	45,45,45	0.64±0.01	0±0 (0±0%)
4	PX4	A	341	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	338	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	374	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	405	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	406	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	389	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	366	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	319	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	399	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	418	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	337	-	45,45,45	0.64±0.01	0±0 (0±0%)
4	PX4	A	333	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	311	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	391	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	351	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	392	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	335	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	419	-	45,45,45	0.64±0.01	0±0 (0±0%)
4	PX4	A	324	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	415	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	379	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	326	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	412	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	431	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	342	-	45,45,45	0.64±0.01	0±0 (0±0%)
4	PX4	A	386	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	353	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	315	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	316	-	45,45,45	0.64±0.01	0±0 (0±0%)
4	PX4	A	413	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	423	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	393	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	394	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	310	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	427	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	429	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	330	-	45,45,45	0.64±0.00	0±0 (0±0%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
4	PX4	A	400	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	313	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	387	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	367	-	45,45,45	0.64±0.01	0±0 (0±0%)
4	PX4	A	329	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	396	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	378	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	421	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	332	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	308	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	430	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	385	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	428	-	45,45,45	0.64±0.00	0±0 (0±0%)
4	PX4	A	365	-	45,45,45	0.64±0.00	0±0 (0±0%)

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
4	PX4	A	383	-	51,53,53	1.50±0.14	9±2 (17±4%)
4	PX4	A	398	-	51,53,53	1.48±0.15	9±3 (17±6%)
4	PX4	A	357	-	51,53,53	1.50±0.14	9±3 (17±5%)
4	PX4	A	422	-	51,53,53	1.50±0.14	9±2 (17±4%)
4	PX4	A	312	-	51,53,53	1.56±0.17	10±3 (19±5%)
4	PX4	A	322	-	51,53,53	1.48±0.13	9±2 (17±4%)
4	PX4	A	401	-	51,53,53	1.53±0.16	10±3 (19±5%)
4	PX4	A	390	-	51,53,53	1.54±0.17	9±2 (16±4%)
4	PX4	A	416	-	51,53,53	1.44±0.10	8±1 (16±2%)
4	PX4	A	402	-	51,53,53	1.50±0.13	9±3 (18±5%)
4	PX4	A	345	-	51,53,53	1.51±0.11	9±3 (18±5%)
4	PX4	A	325	-	51,53,53	1.50±0.16	9±2 (17±3%)
4	PX4	A	409	-	51,53,53	1.50±0.13	9±3 (17±5%)
4	PX4	A	314	-	51,53,53	1.54±0.11	9±2 (18±4%)
4	PX4	A	363	-	51,53,53	1.56±0.13	10±2 (19±4%)

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
4	PX4	A	372	-	51,53,53	1.57±0.16	10±2 (19±4%)
4	PX4	A	417	-	51,53,53	1.46±0.15	9±3 (17±5%)
4	PX4	A	362	-	51,53,53	1.45±0.14	8±2 (15±4%)
4	PX4	A	305	-	51,53,53	1.49±0.15	8±2 (15±4%)
4	PX4	A	359	-	51,53,53	1.50±0.13	9±3 (17±5%)
4	PX4	A	373	-	51,53,53	1.57±0.18	10±3 (19±5%)
4	PX4	A	349	-	51,53,53	1.55±0.13	10±2 (18±4%)
4	PX4	A	336	-	51,53,53	1.49±0.17	9±2 (17±4%)
4	PX4	A	327	-	51,53,53	1.46±0.15	8±3 (16±5%)
4	PX4	A	395	-	51,53,53	1.55±0.12	9±2 (18±3%)
4	PX4	A	397	-	51,53,53	1.49±0.07	9±2 (17±3%)
4	PX4	A	377	-	51,53,53	1.51±0.14	9±2 (18±3%)
4	PX4	A	328	-	51,53,53	1.49±0.14	9±3 (17±4%)
4	PX4	A	375	-	51,53,53	1.47±0.17	9±4 (17±6%)
4	PX4	A	403	-	51,53,53	1.54±0.13	9±2 (17±4%)
4	PX4	A	364	-	51,53,53	1.47±0.12	9±2 (17±3%)
4	PX4	A	307	-	51,53,53	1.52±0.18	10±3 (18±6%)
4	PX4	A	318	-	51,53,53	1.54±0.13	9±3 (18±5%)
4	PX4	A	380	-	51,53,53	1.51±0.15	9±3 (18±5%)
4	PX4	A	348	-	51,53,53	1.52±0.13	9±2 (17±4%)
4	PX4	A	370	-	51,53,53	1.55±0.14	10±2 (19±3%)
4	PX4	A	352	-	51,53,53	1.50±0.20	9±3 (17±5%)
4	PX4	A	317	-	51,53,53	1.48±0.16	9±2 (16±3%)
4	PX4	A	361	-	51,53,53	1.53±0.11	9±2 (18±3%)
4	PX4	A	371	-	51,53,53	1.48±0.13	9±2 (18±4%)
4	PX4	A	410	-	51,53,53	1.53±0.18	9±3 (18±5%)
4	PX4	A	331	-	51,53,53	1.51±0.18	9±3 (18±6%)
4	PX4	A	407	-	51,53,53	1.53±0.17	9±2 (17±3%)
4	PX4	A	339	-	51,53,53	1.48±0.14	8±2 (16±4%)
4	PX4	A	388	-	51,53,53	1.54±0.17	9±2 (18±4%)
4	PX4	A	354	-	51,53,53	1.51±0.17	10±3 (19±6%)
4	PX4	A	384	-	51,53,53	1.56±0.18	9±2 (18±4%)
4	PX4	A	323	-	51,53,53	1.45±0.12	8±2 (15±4%)
4	PX4	A	350	-	51,53,53	1.45±0.18	8±2 (15±4%)
4	PX4	A	309	-	51,53,53	1.47±0.11	8±2 (16±3%)

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
4	PX4	A	368	-	51,53,53	1.54±0.14	10±2 (19±4%)
4	PX4	A	358	-	51,53,53	1.49±0.11	9±2 (17±4%)
4	PX4	A	424	-	51,53,53	1.45±0.14	8±2 (16±4%)
4	PX4	A	414	-	51,53,53	1.56±0.14	9±3 (18±5%)
4	PX4	A	360	-	51,53,53	1.50±0.13	9±2 (18±4%)
4	PX4	A	356	-	51,53,53	1.51±0.13	9±3 (18±4%)
4	PX4	A	420	-	51,53,53	1.53±0.14	9±3 (18±6%)
4	PX4	A	343	-	51,53,53	1.51±0.13	10±2 (18±4%)
4	PX4	A	381	-	51,53,53	1.53±0.15	9±3 (18±5%)
4	PX4	A	408	-	51,53,53	1.50±0.12	9±2 (16±3%)
4	PX4	A	340	-	51,53,53	1.45±0.13	8±2 (15±4%)
4	PX4	A	346	-	51,53,53	1.50±0.15	9±2 (17±4%)
4	PX4	A	404	-	51,53,53	1.44±0.12	9±2 (17±4%)
4	PX4	A	321	-	51,53,53	1.53±0.18	10±2 (19±4%)
4	PX4	A	347	-	51,53,53	1.47±0.12	8±3 (15±5%)
4	PX4	A	369	-	51,53,53	1.54±0.19	9±2 (17±4%)
4	PX4	A	306	-	51,53,53	1.55±0.16	10±2 (19±3%)
4	PX4	A	344	-	51,53,53	1.49±0.08	9±2 (17±3%)
4	PX4	A	334	-	51,53,53	1.50±0.12	9±2 (18±4%)
4	PX4	A	411	-	51,53,53	1.57±0.12	9±2 (18±4%)
4	PX4	A	426	-	51,53,53	1.47±0.17	9±3 (17±4%)
4	PX4	A	425	-	51,53,53	1.51±0.14	9±3 (17±5%)
4	PX4	A	376	-	51,53,53	1.55±0.20	9±3 (18±5%)
4	PX4	A	355	-	51,53,53	1.55±0.12	10±2 (19±3%)
4	PX4	A	320	-	51,53,53	1.48±0.15	9±2 (17±3%)
4	PX4	A	382	-	51,53,53	1.51±0.13	9±2 (17±3%)
4	PX4	A	341	-	51,53,53	1.49±0.09	9±2 (17±3%)
4	PX4	A	338	-	51,53,53	1.48±0.09	8±1 (15±2%)
4	PX4	A	374	-	51,53,53	1.55±0.10	9±2 (18±3%)
4	PX4	A	405	-	51,53,53	1.51±0.15	9±2 (17±3%)
4	PX4	A	406	-	51,53,53	1.54±0.14	9±2 (17±3%)
4	PX4	A	389	-	51,53,53	1.49±0.14	8±2 (16±4%)
4	PX4	A	366	-	51,53,53	1.47±0.13	9±2 (16±4%)
4	PX4	A	319	-	51,53,53	1.57±0.15	10±2 (19±4%)
4	PX4	A	399	-	51,53,53	1.46±0.17	9±3 (17±6%)

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
4	PX4	A	418	-	51,53,53	1.54±0.08	9±2 (18±3%)
4	PX4	A	337	-	51,53,53	1.57±0.17	9±3 (17±5%)
4	PX4	A	333	-	51,53,53	1.51±0.12	8±2 (16±4%)
4	PX4	A	311	-	51,53,53	1.58±0.13	10±2 (19±4%)
4	PX4	A	391	-	51,53,53	1.52±0.14	9±2 (17±3%)
4	PX4	A	351	-	51,53,53	1.54±0.15	9±2 (18±4%)
4	PX4	A	392	-	51,53,53	1.54±0.15	9±2 (17±4%)
4	PX4	A	335	-	51,53,53	1.51±0.11	10±2 (18±4%)
4	PX4	A	419	-	51,53,53	1.53±0.16	10±2 (19±4%)
4	PX4	A	324	-	51,53,53	1.52±0.14	8±2 (16±4%)
4	PX4	A	415	-	51,53,53	1.54±0.13	10±2 (19±4%)
4	PX4	A	379	-	51,53,53	1.49±0.21	9±3 (16±5%)
4	PX4	A	326	-	51,53,53	1.56±0.13	10±3 (19±6%)
4	PX4	A	412	-	51,53,53	1.53±0.17	9±2 (18±4%)
4	PX4	A	431	-	51,53,53	1.55±0.13	10±3 (19±5%)
4	PX4	A	342	-	51,53,53	1.49±0.13	8±2 (16±3%)
4	PX4	A	386	-	51,53,53	1.53±0.14	9±3 (18±5%)
4	PX4	A	353	-	51,53,53	1.56±0.16	10±2 (19±4%)
4	PX4	A	315	-	51,53,53	1.51±0.15	9±3 (17±5%)
4	PX4	A	316	-	51,53,53	1.54±0.10	10±2 (18±3%)
4	PX4	A	413	-	51,53,53	1.47±0.14	9±2 (17±4%)
4	PX4	A	423	-	51,53,53	1.54±0.18	9±3 (18±5%)
4	PX4	A	393	-	51,53,53	1.51±0.12	9±2 (16±4%)
4	PX4	A	394	-	51,53,53	1.44±0.14	8±2 (15±3%)
4	PX4	A	310	-	51,53,53	1.51±0.10	9±2 (17±4%)
4	PX4	A	427	-	51,53,53	1.49±0.13	9±2 (17±4%)
4	PX4	A	429	-	51,53,53	1.47±0.18	8±3 (16±4%)
4	PX4	A	330	-	51,53,53	1.51±0.17	9±3 (18±5%)
4	PX4	A	400	-	51,53,53	1.47±0.17	9±3 (17±5%)
4	PX4	A	313	-	51,53,53	1.51±0.14	9±3 (18±4%)
4	PX4	A	387	-	51,53,53	1.43±0.11	8±2 (15±4%)
4	PX4	A	367	-	51,53,53	1.53±0.18	9±3 (17±5%)
4	PX4	A	329	-	51,53,53	1.48±0.12	9±2 (18±4%)
4	PX4	A	396	-	51,53,53	1.48±0.13	8±2 (16±4%)
4	PX4	A	378	-	51,53,53	1.51±0.14	10±2 (19±4%)

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
4	PX4	A	421	-	51,53,53	1.55±0.15	10±2 (19±3%)
4	PX4	A	332	-	51,53,53	1.53±0.15	10±3 (19±6%)
4	PX4	A	308	-	51,53,53	1.45±0.12	9±2 (17±3%)
4	PX4	A	430	-	51,53,53	1.50±0.17	9±2 (17±4%)
4	PX4	A	385	-	51,53,53	1.54±0.17	10±3 (19±5%)
4	PX4	A	428	-	51,53,53	1.54±0.16	10±3 (19±5%)
4	PX4	A	365	-	51,53,53	1.46±0.16	8±3 (16±5%)

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
4	PX4	A	345	-	-	0±0,49,49,49	-
4	PX4	A	359	-	-	0±0,49,49,49	-
4	PX4	A	409	-	-	0±0,49,49,49	-
4	PX4	A	336	-	-	0±0,49,49,49	-
4	PX4	A	358	-	-	0±0,49,49,49	-
4	PX4	A	424	-	-	0±0,49,49,49	-
4	PX4	A	334	-	-	0±0,49,49,49	-
4	PX4	A	341	-	-	0±0,49,49,49	-
4	PX4	A	324	-	-	0±0,49,49,49	-
4	PX4	A	408	-	-	0±0,49,49,49	-
4	PX4	A	356	-	-	0±0,49,49,49	-
4	PX4	A	407	-	-	0±0,49,49,49	-
4	PX4	A	361	-	-	0±0,49,49,49	-
4	PX4	A	425	-	-	0±0,49,49,49	-
4	PX4	A	351	-	-	0±0,49,49,49	-
4	PX4	A	333	-	-	0±0,49,49,49	-
4	PX4	A	342	-	-	0±0,49,49,49	-
4	PX4	A	357	-	-	0±0,49,49,49	-
4	PX4	A	312	-	-	0±0,49,49,49	-
4	PX4	A	366	-	-	0±0,49,49,49	-
4	PX4	A	340	-	-	0±0,49,49,49	-
4	PX4	A	343	-	-	0±0,49,49,49	-
4	PX4	A	313	-	-	0±0,49,49,49	-
4	PX4	A	355	-	-	0±0,49,49,49	-
4	PX4	A	353	-	-	0±0,49,49,49	-
4	PX4	A	319	-	-	0±0,49,49,49	-
4	PX4	A	415	-	-	0±0,49,49,49	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	PX4	A	316	-	-	0±0,49,49,49	-
4	PX4	A	421	-	-	0±0,49,49,49	-
4	PX4	A	380	-	-	0±0,49,49,49	-
4	PX4	A	314	-	-	0±0,49,49,49	-
4	PX4	A	306	-	-	0±0,49,49,49	-
4	PX4	A	320	-	-	0±0,49,49,49	-
4	PX4	A	387	-	-	0±0,49,49,49	-
4	PX4	A	365	-	-	0±0,49,49,49	-
4	PX4	A	363	-	-	0±0,49,49,49	-
4	PX4	A	410	-	-	0±0,49,49,49	-
4	PX4	A	418	-	-	0±0,49,49,49	-
4	PX4	A	364	-	-	0±0,49,49,49	-
4	PX4	A	381	-	-	0±0,49,49,49	-
4	PX4	A	423	-	-	0±0,49,49,49	-
4	PX4	A	378	-	-	0±0,49,49,49	-
4	PX4	A	318	-	-	0±0,49,49,49	-
4	PX4	A	411	-	-	0±0,49,49,49	-
4	PX4	A	383	-	-	0±0,49,49,49	-
4	PX4	A	384	-	-	0±0,49,49,49	-
4	PX4	A	368	-	-	0±0,49,49,49	-
4	PX4	A	431	-	-	0±0,49,49,49	-
4	PX4	A	379	-	-	0±0,49,49,49	-
4	PX4	A	391	-	-	0±0,49,49,49	-
4	PX4	A	346	-	-	0±0,49,49,49	-
4	PX4	A	374	-	-	0±0,49,49,49	-
4	PX4	A	430	-	-	0±0,49,49,49	-
4	PX4	A	393	-	-	0±0,49,49,49	-
4	PX4	A	377	-	-	0±0,49,49,49	-
4	PX4	A	332	-	-	0±0,49,49,49	-
4	PX4	A	419	-	-	0±0,49,49,49	-
4	PX4	A	402	-	-	0±0,49,49,49	-
4	PX4	A	362	-	-	0±0,49,49,49	-
4	PX4	A	339	-	-	0±0,49,49,49	-
4	PX4	A	370	-	-	0±0,49,49,49	-
4	PX4	A	371	-	-	0±0,49,49,49	-
4	PX4	A	413	-	-	0±0,49,49,49	-
4	PX4	A	405	-	-	0±0,49,49,49	-
4	PX4	A	337	-	-	0±0,49,49,49	-
4	PX4	A	388	-	-	0±0,49,49,49	-
4	PX4	A	307	-	-	0±0,49,49,49	-
4	PX4	A	416	-	-	0±0,49,49,49	-
4	PX4	A	328	-	-	0±0,49,49,49	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	PX4	A	372	-	-	0±0,49,49,49	-
4	PX4	A	386	-	-	0±0,49,49,49	-
4	PX4	A	331	-	-	0±0,49,49,49	-
4	PX4	A	309	-	-	0±0,49,49,49	-
4	PX4	A	422	-	-	0±0,49,49,49	-
4	PX4	A	390	-	-	0±0,49,49,49	-
4	PX4	A	426	-	-	0±0,49,49,49	-
4	PX4	A	385	-	-	0±0,49,49,49	-
4	PX4	A	321	-	-	0±0,49,49,49	-
4	PX4	A	360	-	-	0±0,49,49,49	-
4	PX4	A	348	-	-	0±0,49,49,49	-
4	PX4	A	305	-	-	0±0,49,49,49	-
4	PX4	A	392	-	-	0±0,49,49,49	-
4	PX4	A	329	-	-	0±0,49,49,49	-
4	PX4	A	406	-	-	0±0,49,49,49	-
4	PX4	A	369	-	-	0±0,49,49,49	-
4	PX4	A	326	-	-	0±0,49,49,49	-
4	PX4	A	315	-	-	0±0,49,49,49	-
4	PX4	A	398	-	-	0±0,49,49,49	-
4	PX4	A	375	-	-	0±0,49,49,49	-
4	PX4	A	349	-	-	0±0,49,49,49	-
4	PX4	A	335	-	-	0±0,49,49,49	-
4	PX4	A	403	-	-	0±0,49,49,49	-
4	PX4	A	376	-	-	0±0,49,49,49	-
4	PX4	A	350	-	-	0±0,49,49,49	-
4	PX4	A	352	-	-	0±0,49,49,49	-
4	PX4	A	323	-	-	0±0,49,49,49	-
4	PX4	A	354	-	-	0±0,49,49,49	-
4	PX4	A	414	-	-	1±0,49,49,49	-
4	PX4	A	310	-	-	0±0,49,49,49	-
4	PX4	A	325	-	-	0±0,49,49,49	-
4	PX4	A	347	-	-	0±0,49,49,49	-
4	PX4	A	367	-	-	0±0,49,49,49	-
4	PX4	A	317	-	-	0±0,49,49,49	-
4	PX4	A	373	-	-	0±0,49,49,49	-
4	PX4	A	394	-	-	0±0,49,49,49	-
4	PX4	A	404	-	-	0±0,49,49,49	-
4	PX4	A	389	-	-	0±0,49,49,49	-
4	PX4	A	311	-	-	0±0,49,49,49	-
4	PX4	A	344	-	-	0±0,49,49,49	-
4	PX4	A	427	-	-	0±0,49,49,49	-
4	PX4	A	401	-	-	0±0,49,49,49	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	PX4	A	327	-	-	0±0,49,49,49	-
4	PX4	A	412	-	-	0±0,49,49,49	-
4	PX4	A	338	-	-	0±0,49,49,49	-
4	PX4	A	330	-	-	0±0,49,49,49	-
4	PX4	A	399	-	-	0±0,49,49,49	-
4	PX4	A	429	-	-	0±0,49,49,49	-
4	PX4	A	428	-	-	0±0,49,49,49	-
4	PX4	A	397	-	-	0±0,49,49,49	-
4	PX4	A	396	-	-	0±0,49,49,49	-
4	PX4	A	420	-	-	0±0,49,49,49	-
4	PX4	A	382	-	-	0±0,49,49,49	-
4	PX4	A	417	-	-	0±0,49,49,49	-
4	PX4	A	395	-	-	0±0,49,49,49	-
4	PX4	A	308	-	-	0±0,49,49,49	-
4	PX4	A	400	-	-	0±0,49,49,49	-
4	PX4	A	322	-	-	0±0,49,49,49	-

There are no bond-length outliers.

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
4	A	343	PX4	C8-C7-C6	8.07	92.97	111.78	16	8
4	A	392	PX4	C7-O7-C23	7.93	136.78	117.80	11	7
4	A	369	PX4	C8-C7-C6	7.59	94.09	111.78	12	16
4	A	384	PX4	C5-N1-C4	7.50	89.28	108.98	6	5
4	A	356	PX4	C8-C7-C6	7.42	94.49	111.78	5	11
4	A	426	PX4	O7-C23-O8	7.32	106.60	123.70	12	6
4	A	398	PX4	C8-C7-C6	7.21	94.98	111.78	15	13
4	A	311	PX4	C7-O7-C23	7.10	134.79	117.80	15	12
4	A	307	PX4	C8-C7-C6	7.08	95.28	111.78	8	13
4	A	349	PX4	O5-C8-C7	7.04	128.70	108.40	8	13
4	A	384	PX4	C8-C7-C6	7.04	95.37	111.78	7	15
4	A	331	PX4	C8-C7-C6	7.03	95.40	111.78	19	16
4	A	319	PX4	O5-C8-C7	7.01	128.62	108.40	19	9
4	A	331	PX4	C7-O7-C23	6.99	134.53	117.80	16	2
4	A	403	PX4	C8-C7-C6	6.94	95.61	111.78	14	11
4	A	337	PX4	O7-C23-C24	6.91	126.43	111.48	16	15
4	A	391	PX4	O5-C8-C7	6.91	128.31	108.40	14	8
4	A	407	PX4	O7-C23-C24	6.86	126.31	111.48	10	9
4	A	419	PX4	P1-O3-C1	6.72	89.26	121.26	13	11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	373	PX4	O7-C23-C24	6.71	126.00	111.48	13	10
4	A	406	PX4	O7-C23-C24	6.70	125.98	111.48	9	9
4	A	321	PX4	C8-C7-C6	6.64	96.31	111.78	11	9
4	A	337	PX4	O5-C8-C7	6.60	127.42	108.40	18	15
4	A	377	PX4	C8-C7-C6	6.57	96.46	111.78	8	14
4	A	386	PX4	O5-C8-C7	6.57	127.33	108.40	7	12
4	A	420	PX4	C8-C7-C6	6.56	96.49	111.78	9	16
4	A	326	PX4	O5-C8-C7	6.47	127.04	108.40	9	15
4	A	370	PX4	O7-C23-C24	6.38	125.28	111.48	4	9
4	A	390	PX4	C8-C7-C6	6.38	96.92	111.78	1	15
4	A	408	PX4	P1-O3-C1	6.35	91.04	121.26	11	15
4	A	318	PX4	O5-C8-C7	6.33	126.65	108.40	1	15
4	A	363	PX4	O7-C23-C24	6.31	125.13	111.48	10	11
4	A	306	PX4	C8-C7-C6	6.30	97.09	111.78	7	15
4	A	309	PX4	C4-N1-C3	6.30	92.43	108.98	12	4
4	A	324	PX4	C8-C7-C6	6.29	97.13	111.78	8	15
4	A	341	PX4	C8-C7-C6	6.28	97.15	111.78	7	14
4	A	357	PX4	C8-C7-C6	6.24	97.24	111.78	3	13
4	A	424	PX4	C8-C7-C6	6.23	97.27	111.78	14	10
4	A	418	PX4	C8-C7-C6	6.22	97.27	111.78	19	12
4	A	414	PX4	O7-C23-C24	6.19	124.87	111.48	8	12
4	A	384	PX4	C7-O7-C23	6.18	132.59	117.80	15	11
4	A	403	PX4	O5-C8-C7	6.18	126.21	108.40	12	12
4	A	337	PX4	C8-C7-C6	6.18	97.39	111.78	5	14
4	A	417	PX4	C8-C7-C6	6.17	97.39	111.78	9	10
4	A	352	PX4	O7-C23-C24	6.16	124.81	111.48	18	12
4	A	390	PX4	C4-N1-C3	6.16	92.79	108.98	8	3
4	A	428	PX4	C8-C7-C6	6.16	97.42	111.78	5	14
4	A	372	PX4	C8-C7-C6	6.12	97.52	111.78	17	15
4	A	351	PX4	O5-C8-C7	6.11	126.01	108.40	7	10
4	A	332	PX4	O7-C23-C24	6.10	124.68	111.48	15	14
4	A	325	PX4	O7-C23-O8	6.08	109.48	123.70	4	7
4	A	352	PX4	C8-C7-C6	6.08	97.60	111.78	16	12
4	A	392	PX4	O7-C23-C24	6.08	124.62	111.48	6	9
4	A	392	PX4	C8-C7-C6	6.06	97.65	111.78	17	13
4	A	393	PX4	C8-C7-C6	6.06	97.66	111.78	11	16
4	A	312	PX4	O5-C8-C7	6.05	125.85	108.40	12	14
4	A	385	PX4	C8-C7-C6	6.05	97.68	111.78	20	12
4	A	311	PX4	O5-C8-C7	6.00	125.70	108.40	16	11
4	A	418	PX4	O5-C8-C7	6.00	125.69	108.40	8	13
4	A	355	PX4	O7-C23-C24	5.99	124.45	111.48	16	11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	316	PX4	C8-C7-C6	5.99	97.82	111.78	4	15
4	A	330	PX4	O7-C23-C24	5.98	124.41	111.48	9	8
4	A	369	PX4	O7-C23-C24	5.96	124.37	111.48	16	14
4	A	305	PX4	O7-C23-O8	5.96	109.78	123.70	12	7
4	A	430	PX4	O7-C23-C24	5.94	124.33	111.48	3	10
4	A	393	PX4	O3-P1-O2	5.93	85.42	108.94	16	4
4	A	412	PX4	O5-C8-C7	5.93	125.50	108.40	14	10
4	A	350	PX4	C8-C7-C6	5.91	98.00	111.78	15	8
4	A	415	PX4	O7-C23-O8	5.91	109.89	123.70	10	8
4	A	321	PX4	O7-C23-C24	5.90	124.25	111.48	10	11
4	A	430	PX4	O5-C8-C7	5.90	125.40	108.40	3	12
4	A	376	PX4	O3-P1-O2	5.90	85.56	108.94	7	8
4	A	370	PX4	C7-O7-C23	5.89	131.89	117.80	9	8
4	A	305	PX4	O7-C23-C24	5.89	124.22	111.48	3	8
4	A	366	PX4	O5-C8-C7	5.89	125.37	108.40	5	11
4	A	372	PX4	O7-C23-O8	5.89	109.94	123.70	15	7
4	A	407	PX4	O7-C23-O8	5.88	109.95	123.70	10	4
4	A	379	PX4	C8-C7-C6	5.87	98.09	111.78	19	9
4	A	391	PX4	C7-O7-C23	5.87	131.85	117.80	1	9
4	A	390	PX4	O7-C23-C24	5.86	124.16	111.48	4	10
4	A	407	PX4	C8-C7-C6	5.85	98.14	111.78	3	15
4	A	319	PX4	C8-C7-C6	5.85	98.15	111.78	1	15
4	A	328	PX4	C8-C7-C6	5.84	98.17	111.78	11	17
4	A	310	PX4	C8-C7-C6	5.83	98.18	111.78	7	14
4	A	356	PX4	O5-C8-C7	5.83	125.19	108.40	11	11
4	A	341	PX4	O5-C8-C7	5.82	125.16	108.40	15	13
4	A	369	PX4	O5-C8-C7	5.81	125.15	108.40	9	9
4	A	354	PX4	O7-C23-O8	5.80	110.15	123.70	3	10
4	A	410	PX4	O5-C8-C7	5.80	125.10	108.40	18	8
4	A	430	PX4	C8-C7-C6	5.79	98.28	111.78	18	16
4	A	397	PX4	C7-O7-C23	5.79	131.65	117.80	20	8
4	A	396	PX4	C8-C7-C6	5.79	98.30	111.78	2	12
4	A	400	PX4	O5-C8-C7	5.78	125.06	108.40	9	14
4	A	410	PX4	C8-C7-C6	5.78	98.31	111.78	5	15
4	A	320	PX4	O7-C23-C24	5.72	123.86	111.48	4	12
4	A	317	PX4	O5-C8-C7	5.72	124.88	108.40	19	11
4	A	407	PX4	O5-C8-C7	5.72	124.89	108.40	1	16
4	A	399	PX4	P1-O3-C1	5.71	94.09	121.26	15	10
4	A	424	PX4	O7-C23-C24	5.71	123.83	111.48	9	8
4	A	310	PX4	O7-C23-C24	5.70	123.81	111.48	1	9
4	A	343	PX4	O5-C9-O6	5.70	109.37	123.63	4	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	388	PX4	O5-C8-C7	5.69	124.80	108.40	9	9
4	A	312	PX4	O7-C23-O8	5.69	110.41	123.70	1	9
4	A	313	PX4	O3-P1-O2	5.68	86.41	108.94	11	4
4	A	313	PX4	O7-C23-C24	5.67	123.75	111.48	5	12
4	A	406	PX4	O5-C8-C7	5.67	124.74	108.40	7	12
4	A	325	PX4	O7-C23-C24	5.65	123.69	111.48	8	9
4	A	388	PX4	C8-C7-C6	5.64	98.62	111.78	9	15
4	A	417	PX4	O5-C8-C7	5.64	124.67	108.40	13	11
4	A	305	PX4	P1-O3-C1	5.64	94.40	121.26	12	12
4	A	355	PX4	C8-C7-C6	5.64	98.63	111.78	10	10
4	A	401	PX4	O7-C23-C24	5.64	123.68	111.48	9	4
4	A	319	PX4	C7-O7-C23	5.63	131.28	117.80	20	9
4	A	397	PX4	O5-C8-C7	5.63	124.64	108.40	5	8
4	A	423	PX4	O7-C23-C24	5.62	123.64	111.48	5	10
4	A	313	PX4	O5-C8-C7	5.61	124.58	108.40	19	15
4	A	353	PX4	O7-C23-C24	5.60	123.59	111.48	17	11
4	A	342	PX4	C8-C7-C6	5.59	98.74	111.78	8	11
4	A	431	PX4	C8-C7-C6	5.59	98.74	111.78	1	16
4	A	404	PX4	O7-C23-O8	5.59	110.63	123.70	17	8
4	A	307	PX4	O7-C23-C24	5.58	123.56	111.48	16	4
4	A	372	PX4	O7-C23-C24	5.58	123.55	111.48	13	9
4	A	382	PX4	C8-C7-C6	5.58	98.78	111.78	8	11
4	A	382	PX4	O5-C9-O6	5.58	109.68	123.63	15	4
4	A	325	PX4	O5-C8-C7	5.57	124.44	108.40	11	13
4	A	362	PX4	C8-C7-C6	5.57	98.81	111.78	4	8
4	A	379	PX4	O7-C23-C24	5.57	123.52	111.48	4	9
4	A	367	PX4	O7-C23-C24	5.56	123.52	111.48	17	14
4	A	318	PX4	O7-C23-C24	5.55	123.50	111.48	16	9
4	A	414	PX4	C8-C7-C6	5.54	98.86	111.78	11	11
4	A	373	PX4	C8-C7-C6	5.53	98.90	111.78	16	11
4	A	340	PX4	C7-O7-C23	5.52	131.01	117.80	12	5
4	A	427	PX4	C8-C7-C6	5.52	98.92	111.78	14	11
4	A	306	PX4	O7-C23-C24	5.52	123.41	111.48	16	12
4	A	410	PX4	O7-C23-O8	5.52	110.81	123.70	17	7
4	A	347	PX4	C7-O7-C23	5.51	130.98	117.80	4	5
4	A	410	PX4	O7-C23-C24	5.51	123.40	111.48	6	12
4	A	355	PX4	O7-C23-O8	5.51	110.83	123.70	16	7
4	A	386	PX4	O7-C23-C24	5.51	123.39	111.48	4	7
4	A	386	PX4	C7-O7-C23	5.50	130.97	117.80	14	8
4	A	314	PX4	C8-C7-C6	5.49	98.98	111.78	13	9
4	A	351	PX4	C8-C7-C6	5.49	98.99	111.78	12	16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	403	PX4	O7-C23-C24	5.49	123.36	111.48	13	10
4	A	348	PX4	O5-C8-C7	5.48	124.20	108.40	8	14
4	A	346	PX4	O5-C8-C7	5.48	124.20	108.40	15	12
4	A	314	PX4	C7-O7-C23	5.48	130.91	117.80	18	9
4	A	400	PX4	O7-C23-C24	5.46	123.30	111.48	19	10
4	A	388	PX4	C5-N1-C4	5.46	94.63	108.98	11	3
4	A	322	PX4	O5-C8-C7	5.45	124.11	108.40	14	11
4	A	415	PX4	C8-C7-C6	5.45	99.08	111.78	20	12
4	A	376	PX4	O7-C23-C24	5.45	123.27	111.48	3	11
4	A	429	PX4	C5-N1-C3	5.45	94.67	108.98	7	4
4	A	331	PX4	O7-C23-C24	5.43	123.23	111.48	18	11
4	A	358	PX4	C7-O7-C23	5.43	130.79	117.80	7	6
4	A	337	PX4	C26-C25-C24	5.43	93.19	113.13	13	3
4	A	395	PX4	C5-N1-C4	5.42	94.74	108.98	3	2
4	A	310	PX4	O5-C8-C7	5.42	124.02	108.40	12	12
4	A	316	PX4	P1-O3-C1	5.42	95.46	121.26	9	15
4	A	412	PX4	C7-O7-C23	5.39	104.89	117.80	20	8
4	A	345	PX4	C8-C7-C6	5.39	99.22	111.78	20	11
4	A	419	PX4	O7-C23-C24	5.39	123.14	111.48	14	10
4	A	396	PX4	O5-C8-C7	5.39	123.92	108.40	16	12
4	A	307	PX4	O5-C8-C7	5.38	123.92	108.40	10	11
4	A	380	PX4	O5-C8-C7	5.38	123.92	108.40	1	11
4	A	404	PX4	C8-C7-C6	5.38	99.24	111.78	17	9
4	A	335	PX4	C8-C7-C6	5.38	99.25	111.78	7	14
4	A	414	PX4	C7-O7-C23	5.37	130.65	117.80	17	13
4	A	431	PX4	O5-C8-C7	5.37	123.88	108.40	17	14
4	A	319	PX4	C5-N1-C3	5.37	123.07	108.98	8	9
4	A	346	PX4	O3-P1-O2	5.36	87.68	108.94	1	5
4	A	347	PX4	O7-C23-C24	5.36	123.08	111.48	17	10
4	A	422	PX4	C7-O7-C23	5.36	130.62	117.80	18	7
4	A	348	PX4	C8-C7-C6	5.35	99.32	111.78	18	14
4	A	369	PX4	O7-C23-O8	5.35	111.21	123.70	16	11
4	A	405	PX4	C4-N1-C3	5.34	94.94	108.98	8	4
4	A	310	PX4	O7-C23-O8	5.34	111.22	123.70	1	4
4	A	346	PX4	C7-O7-C23	5.33	105.04	117.80	5	5
4	A	416	PX4	O7-C23-C24	5.33	123.01	111.48	7	12
4	A	421	PX4	O5-C8-C7	5.33	123.75	108.40	18	14
4	A	340	PX4	C8-C7-C6	5.31	99.40	111.78	18	12
4	A	364	PX4	P1-O3-C1	5.31	95.98	121.26	17	15
4	A	395	PX4	O7-C23-C24	5.31	122.97	111.48	11	10
4	A	364	PX4	C8-C7-C6	5.31	99.41	111.78	9	15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	387	PX4	O5-C8-C7	5.31	123.69	108.40	15	8
4	A	389	PX4	O5-C8-C7	5.31	123.69	108.40	12	9
4	A	314	PX4	O7-C23-O8	5.30	111.31	123.70	18	9
4	A	389	PX4	O7-C23-C24	5.30	122.95	111.48	14	9
4	A	389	PX4	C8-C7-C6	5.30	99.43	111.78	6	12
4	A	354	PX4	C8-C7-C6	5.30	99.44	111.78	16	10
4	A	366	PX4	C8-C7-C6	5.29	99.45	111.78	12	14
4	A	421	PX4	C8-C7-C6	5.29	99.46	111.78	12	17
4	A	393	PX4	O5-C8-C7	5.28	123.61	108.40	13	8
4	A	344	PX4	O7-C23-C24	5.28	122.90	111.48	12	5
4	A	374	PX4	P1-O3-C1	5.28	96.14	121.26	10	14
4	A	349	PX4	C8-C7-C6	5.27	99.49	111.78	16	13
4	A	356	PX4	C7-O7-C23	5.27	130.41	117.80	20	6
4	A	372	PX4	O5-C8-C7	5.27	123.58	108.40	2	12
4	A	402	PX4	O5-C8-C7	5.27	123.58	108.40	1	13
4	A	405	PX4	O7-C23-C24	5.27	122.87	111.48	5	11
4	A	411	PX4	O5-C8-C7	5.27	123.57	108.40	14	12
4	A	332	PX4	C8-C7-C6	5.26	99.52	111.78	2	16
4	A	322	PX4	C7-O7-C23	5.26	130.37	117.80	5	7
4	A	382	PX4	O5-C8-C7	5.25	123.54	108.40	20	14
4	A	396	PX4	O7-C23-C24	5.25	122.85	111.48	12	10
4	A	326	PX4	C4-N1-C3	5.25	95.19	108.98	6	4
4	A	413	PX4	O7-C23-C24	5.25	122.84	111.48	8	10
4	A	422	PX4	C8-C7-C6	5.25	99.55	111.78	6	11
4	A	391	PX4	C8-C7-C6	5.24	99.57	111.78	16	14
4	A	326	PX4	P1-O3-C1	5.24	96.34	121.26	12	14
4	A	383	PX4	O7-C23-O8	5.23	111.48	123.70	16	3
4	A	325	PX4	C8-C7-C6	5.23	99.59	111.78	20	13
4	A	341	PX4	C7-O7-C23	5.23	130.30	117.80	1	6
4	A	380	PX4	C8-C7-C6	5.22	99.61	111.78	11	16
4	A	335	PX4	O7-C23-C24	5.21	122.76	111.48	8	9
4	A	427	PX4	P1-O3-C1	5.21	96.45	121.26	1	16
4	A	336	PX4	O7-C23-C24	5.20	122.73	111.48	13	10
4	A	383	PX4	O5-C8-C7	5.20	123.38	108.40	17	8
4	A	332	PX4	O5-C8-C7	5.20	123.38	108.40	7	14
4	A	345	PX4	O7-C23-C24	5.20	122.72	111.48	18	10
4	A	361	PX4	O7-C23-C24	5.19	122.72	111.48	13	13
4	A	422	PX4	O7-C23-C24	5.20	122.72	111.48	5	10
4	A	392	PX4	O5-C8-C7	5.19	123.36	108.40	1	14
4	A	390	PX4	P1-O3-C1	5.19	96.57	121.26	1	13
4	A	339	PX4	O7-C23-C24	5.19	122.70	111.48	19	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	374	PX4	C8-C7-C6	5.18	99.70	111.78	9	16
4	A	379	PX4	O5-C8-C7	5.18	123.34	108.40	15	15
4	A	315	PX4	O7-C23-C24	5.18	122.68	111.48	3	9
4	A	421	PX4	O5-C9-O6	5.16	110.71	123.63	14	5
4	A	429	PX4	C8-C7-C6	5.16	99.75	111.78	11	16
4	A	343	PX4	C7-O7-C23	5.16	130.14	117.80	11	8
4	A	321	PX4	O5-C8-C7	5.16	123.26	108.40	18	7
4	A	367	PX4	P1-O4-C6	5.15	91.82	121.35	19	10
4	A	312	PX4	O7-C23-C24	5.15	122.62	111.48	10	15
4	A	344	PX4	C8-C7-C6	5.14	99.79	111.78	11	12
4	A	427	PX4	O5-C8-C7	5.15	123.23	108.40	12	12
4	A	384	PX4	P1-O3-C1	5.14	96.78	121.26	16	14
4	A	376	PX4	O5-C8-C7	5.14	123.21	108.40	1	11
4	A	396	PX4	O7-C7-C8	5.13	126.76	108.34	13	8
4	A	430	PX4	C7-O7-C23	5.12	130.06	117.80	3	5
4	A	323	PX4	C5-N1-C3	5.12	95.53	108.98	7	5
4	A	395	PX4	O5-C8-C7	5.12	123.15	108.40	16	13
4	A	327	PX4	C8-C7-C6	5.11	99.86	111.78	1	11
4	A	333	PX4	O5-C8-C7	5.11	123.12	108.40	9	8
4	A	374	PX4	O3-P1-O2	5.11	88.68	108.94	7	3
4	A	367	PX4	C7-O7-C23	5.11	130.02	117.80	17	13
4	A	398	PX4	C7-O7-C23	5.11	130.02	117.80	11	4
4	A	353	PX4	O5-C8-C7	5.11	123.11	108.40	2	15
4	A	340	PX4	O7-C7-C8	5.10	126.64	108.34	9	8
4	A	400	PX4	C7-O7-C23	5.10	130.00	117.80	11	7
4	A	324	PX4	P1-O3-C1	5.09	97.01	121.26	1	15
4	A	405	PX4	C8-C7-C6	5.09	99.92	111.78	10	11
4	A	412	PX4	O7-C23-C24	5.09	122.49	111.48	13	12
4	A	398	PX4	C4-N1-C3	5.09	95.60	108.98	13	8
4	A	363	PX4	C8-C7-C6	5.09	99.92	111.78	11	11
4	A	370	PX4	C8-C7-C6	5.08	99.94	111.78	14	9
4	A	319	PX4	O3-P1-O2	5.08	88.80	108.94	7	4
4	A	402	PX4	C7-O7-C23	5.08	129.96	117.80	12	5
4	A	352	PX4	O5-C8-C7	5.08	123.03	108.40	13	16
4	A	381	PX4	C8-C7-C6	5.07	99.95	111.78	4	13
4	A	394	PX4	C8-C7-C6	5.07	99.96	111.78	9	10
4	A	423	PX4	O5-C8-C7	5.07	123.02	108.40	12	13
4	A	425	PX4	O7-C23-C24	5.07	122.45	111.48	8	17
4	A	375	PX4	P1-O3-C1	5.07	97.13	121.26	3	17
4	A	352	PX4	C7-O7-C23	5.07	105.67	117.80	8	4
4	A	314	PX4	C8-O5-C9	5.06	98.61	117.12	12	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	338	PX4	O5-C8-C7	5.06	123.00	108.40	5	13
4	A	339	PX4	C8-C7-C6	5.06	99.98	111.78	11	12
4	A	426	PX4	O7-C23-C24	5.06	122.42	111.48	12	9
4	A	374	PX4	O5-C8-C7	5.05	122.96	108.40	14	12
4	A	350	PX4	O5-C8-C7	5.04	122.94	108.40	18	9
4	A	333	PX4	C5-N1-C3	5.03	95.75	108.98	17	4
4	A	425	PX4	C8-C7-C6	5.03	100.05	111.78	2	11
4	A	357	PX4	C5-N1-C4	5.03	95.76	108.98	6	3
4	A	336	PX4	C8-C7-C6	5.03	100.07	111.78	7	15
4	A	350	PX4	O7-C23-C24	5.02	122.34	111.48	1	10
4	A	358	PX4	C8-C7-C6	5.02	100.08	111.78	20	13
4	A	410	PX4	C7-O7-C23	5.02	129.81	117.80	12	7
4	A	395	PX4	P1-O3-C1	5.02	97.36	121.26	6	16
4	A	342	PX4	P1-O4-C6	5.02	92.61	121.35	15	10
4	A	383	PX4	C5-N1-C3	5.02	95.80	108.98	15	6
4	A	403	PX4	P1-O3-C1	5.01	97.39	121.26	11	19
4	A	406	PX4	O7-C23-O8	5.01	111.99	123.70	8	9
4	A	320	PX4	O7-C23-O8	5.00	112.01	123.70	10	9
4	A	363	PX4	O7-C23-O8	5.00	112.01	123.70	18	9
4	A	317	PX4	C8-C7-C6	5.00	100.12	111.78	5	16
4	A	334	PX4	O7-C23-C24	5.00	122.29	111.48	17	9
4	A	322	PX4	C8-C7-C6	4.99	100.15	111.78	4	11
4	A	389	PX4	P1-O3-C1	4.99	97.50	121.26	6	16
4	A	337	PX4	O7-C23-O8	4.99	112.05	123.70	16	8
4	A	402	PX4	P1-O3-C1	4.99	97.53	121.26	6	17
4	A	415	PX4	C7-O7-C23	4.99	129.73	117.80	6	16
4	A	342	PX4	O5-C8-C7	4.98	122.76	108.40	6	11
4	A	408	PX4	O5-C8-C7	4.98	122.76	108.40	5	13
4	A	417	PX4	O7-C7-C8	4.98	126.22	108.34	14	9
4	A	373	PX4	C26-C25-C24	4.98	94.83	113.13	3	3
4	A	405	PX4	O5-C8-C7	4.98	122.74	108.40	14	15
4	A	389	PX4	O1-P1-O3	4.98	85.01	107.57	13	2
4	A	327	PX4	C7-O7-C23	4.98	129.70	117.80	15	3
4	A	425	PX4	O7-C7-C8	4.97	126.16	108.34	2	10
4	A	360	PX4	C8-C7-C6	4.96	100.21	111.78	2	14
4	A	378	PX4	O7-C23-C24	4.97	122.22	111.48	4	14
4	A	335	PX4	O5-C8-C7	4.96	122.69	108.40	13	13
4	A	361	PX4	O5-C8-C7	4.96	122.69	108.40	11	12
4	A	352	PX4	O7-C7-C8	4.96	126.12	108.34	18	5
4	A	348	PX4	O7-C23-C24	4.95	122.19	111.48	15	13
4	A	324	PX4	O7-C23-C24	4.95	122.18	111.48	16	10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	315	PX4	P1-O3-C1	4.95	97.71	121.26	5	14
4	A	355	PX4	O7-C7-C8	4.94	126.06	108.34	6	13
4	A	323	PX4	C8-C7-C6	4.94	100.28	111.78	9	13
4	A	357	PX4	O7-C23-C24	4.93	122.15	111.48	17	11
4	A	399	PX4	O7-C23-C24	4.93	122.15	111.48	6	11
4	A	423	PX4	C5-N1-C4	4.93	96.02	108.98	6	8
4	A	340	PX4	O7-C23-C24	4.93	122.15	111.48	5	6
4	A	385	PX4	O5-C9-C10	4.93	126.87	111.83	13	6
4	A	351	PX4	P1-O3-C1	4.93	97.80	121.26	3	16
4	A	378	PX4	O5-C8-C7	4.93	122.60	108.40	4	14
4	A	411	PX4	O7-C23-C24	4.92	122.13	111.48	10	10
4	A	420	PX4	C5-N1-C4	4.92	121.90	108.98	19	5
4	A	355	PX4	P1-O3-C1	4.92	97.85	121.26	10	16
4	A	325	PX4	C5-N1-C4	4.92	96.06	108.98	11	8
4	A	395	PX4	O7-C7-C6	4.91	125.97	108.34	15	7
4	A	385	PX4	O5-C8-C7	4.91	122.56	108.40	5	13
4	A	324	PX4	O7-C7-C8	4.91	125.95	108.34	7	7
4	A	376	PX4	C7-O7-C23	4.91	129.54	117.80	10	7
4	A	420	PX4	P1-O3-C1	4.91	97.90	121.26	9	14
4	A	426	PX4	C8-C7-C6	4.90	100.35	111.78	20	11
4	A	411	PX4	P1-O3-C1	4.90	97.93	121.26	9	16
4	A	307	PX4	C7-O7-C23	4.90	106.07	117.80	15	5
4	A	314	PX4	P1-O3-C1	4.90	97.94	121.26	10	19
4	A	377	PX4	O7-C23-C24	4.90	122.07	111.48	9	10
4	A	416	PX4	O7-C23-O8	4.89	112.27	123.70	10	5
4	A	388	PX4	O7-C7-C8	4.89	125.88	108.34	9	10
4	A	350	PX4	C4-N1-C3	4.88	121.81	108.98	1	4
4	A	416	PX4	O5-C8-C7	4.88	122.47	108.40	6	9
4	A	338	PX4	C8-C7-C6	4.87	100.42	111.78	2	12
4	A	383	PX4	O7-C23-C24	4.87	122.01	111.48	18	9
4	A	341	PX4	O7-C23-C24	4.86	122.00	111.48	8	9
4	A	419	PX4	C8-C7-C6	4.87	100.44	111.78	10	10
4	A	317	PX4	O7-C23-C24	4.85	121.98	111.48	12	11
4	A	354	PX4	O7-C23-C24	4.85	121.98	111.48	19	13
4	A	350	PX4	P1-O3-C1	4.85	98.18	121.26	10	14
4	A	313	PX4	C8-C7-C6	4.84	100.49	111.78	12	12
4	A	326	PX4	C8-C7-C6	4.85	100.49	111.78	10	15
4	A	401	PX4	C8-C7-C6	4.84	100.49	111.78	17	13
4	A	364	PX4	C7-O7-C23	4.84	129.38	117.80	13	3
4	A	353	PX4	C7-O7-C23	4.83	129.35	117.80	15	6
4	A	359	PX4	C8-C7-C6	4.83	100.53	111.78	19	11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	330	PX4	P1-O3-C1	4.83	98.29	121.26	20	15
4	A	429	PX4	O5-C8-C7	4.82	122.30	108.40	3	13
4	A	310	PX4	P1-O3-C1	4.82	98.31	121.26	3	17
4	A	347	PX4	C8-C7-C6	4.82	100.55	111.78	19	11
4	A	384	PX4	O5-C8-C7	4.82	122.29	108.40	12	15
4	A	312	PX4	C8-C7-C6	4.81	100.57	111.78	20	10
4	A	370	PX4	O3-P1-O2	4.81	89.89	108.94	5	12
4	A	362	PX4	O1-P1-O3	4.80	85.80	107.57	3	2
4	A	387	PX4	C8-C7-C6	4.80	100.59	111.78	11	12
4	A	365	PX4	O7-C23-C24	4.80	121.86	111.48	2	9
4	A	430	PX4	O7-C7-C8	4.80	125.55	108.34	8	8
4	A	316	PX4	C5-N1-C4	4.79	96.39	108.98	11	6
4	A	368	PX4	C8-C7-C6	4.79	100.61	111.78	4	15
4	A	414	PX4	P1-O3-C1	4.79	98.45	121.26	16	17
4	A	385	PX4	O3-P1-O2	4.79	89.96	108.94	6	3
4	A	375	PX4	C5-N1-C4	4.78	96.41	108.98	9	6
4	A	343	PX4	O7-C23-O8	4.78	112.53	123.70	9	10
4	A	376	PX4	P1-O3-C1	4.78	98.51	121.26	18	18
4	A	329	PX4	O7-C23-C24	4.78	121.82	111.48	5	7
4	A	425	PX4	C7-O7-C23	4.78	129.23	117.80	16	6
4	A	327	PX4	P1-O3-C1	4.78	98.53	121.26	18	15
4	A	348	PX4	C7-O7-C23	4.77	129.22	117.80	2	9
4	A	431	PX4	O7-C23-C24	4.77	121.80	111.48	13	11
4	A	390	PX4	O5-C8-C7	4.77	122.14	108.40	5	8
4	A	380	PX4	C1-C2-N1	4.76	131.11	115.82	2	4
4	A	404	PX4	O5-C8-C7	4.76	122.12	108.40	11	12
4	A	321	PX4	C7-O7-C23	4.76	129.19	117.80	3	11
4	A	373	PX4	O7-C7-C8	4.76	125.42	108.34	19	12
4	A	334	PX4	C8-C7-C6	4.76	100.69	111.78	5	8
4	A	336	PX4	P1-O3-C1	4.76	98.62	121.26	4	13
4	A	421	PX4	C5-N1-C4	4.75	96.49	108.98	9	6
4	A	375	PX4	C7-O7-C23	4.75	129.17	117.80	16	3
4	A	386	PX4	P1-O3-C1	4.75	98.64	121.26	14	16
4	A	365	PX4	C8-C7-C6	4.75	100.72	111.78	17	12
4	A	353	PX4	C1-C2-N1	4.75	131.06	115.82	15	7
4	A	407	PX4	P1-O3-C1	4.75	98.66	121.26	13	14
4	A	364	PX4	O7-C23-C24	4.75	121.75	111.48	17	8
4	A	381	PX4	C4-N1-C3	4.74	96.52	108.98	10	4
4	A	359	PX4	C7-O7-C23	4.74	129.14	117.80	4	8
4	A	312	PX4	C7-O7-C23	4.73	129.13	117.80	11	6
4	A	355	PX4	C5-N1-C3	4.73	96.54	108.98	5	13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	386	PX4	C8-C7-C6	4.73	100.76	111.78	2	15
4	A	414	PX4	C5-N1-C4	4.73	96.55	108.98	12	7
4	A	318	PX4	C8-C7-C6	4.73	100.77	111.78	19	16
4	A	327	PX4	O7-C7-C8	4.73	125.30	108.34	12	10
4	A	342	PX4	C5-N1-C4	4.73	96.56	108.98	13	9
4	A	367	PX4	O7-C7-C8	4.72	125.29	108.34	12	11
4	A	359	PX4	O5-C8-C7	4.72	122.01	108.40	7	14
4	A	370	PX4	O5-C9-O6	4.72	111.82	123.63	1	7
4	A	370	PX4	C4-N1-C3	4.72	96.57	108.98	13	7
4	A	418	PX4	C5-N1-C3	4.72	96.57	108.98	15	8
4	A	428	PX4	P1-O3-C1	4.72	98.79	121.26	2	17
4	A	314	PX4	O5-C8-C7	4.72	121.99	108.40	4	14
4	A	330	PX4	O3-P1-O2	4.72	90.25	108.94	7	8
4	A	398	PX4	O7-C23-C24	4.72	121.68	111.48	13	10
4	A	416	PX4	C8-C7-C6	4.72	100.79	111.78	11	8
4	A	327	PX4	O7-C23-C24	4.71	121.67	111.48	13	9
4	A	322	PX4	O7-C23-O8	4.71	112.70	123.70	10	5
4	A	353	PX4	P1-O3-C1	4.71	98.86	121.26	15	17
4	A	341	PX4	O7-C23-O8	4.70	112.70	123.70	14	5
4	A	401	PX4	P1-O3-C1	4.70	98.87	121.26	8	16
4	A	374	PX4	O7-C23-C24	4.71	121.66	111.48	10	11
4	A	325	PX4	O7-C7-C6	4.70	125.22	108.34	9	10
4	A	426	PX4	P1-O3-C1	4.70	98.87	121.26	16	17
4	A	397	PX4	P1-O3-C1	4.70	98.88	121.26	14	12
4	A	360	PX4	O7-C23-C24	4.70	121.65	111.48	8	13
4	A	357	PX4	O5-C8-C7	4.70	121.94	108.40	20	14
4	A	360	PX4	O7-C23-O8	4.70	112.72	123.70	10	7
4	A	309	PX4	O5-C8-C7	4.69	121.93	108.40	13	11
4	A	306	PX4	O7-C7-C8	4.69	125.18	108.34	18	6
4	A	324	PX4	O7-C7-C6	4.69	125.18	108.34	17	9
4	A	382	PX4	O7-C23-C24	4.69	121.62	111.48	19	8
4	A	425	PX4	C5-N1-C4	4.69	121.29	108.98	4	3
4	A	331	PX4	O7-C23-O8	4.69	112.75	123.70	18	9
4	A	372	PX4	P1-O3-C1	4.69	98.96	121.26	18	17
4	A	350	PX4	O7-C23-O8	4.68	112.75	123.70	1	6
4	A	381	PX4	O7-C7-C8	4.68	125.15	108.34	3	7
4	A	316	PX4	O5-C8-C7	4.68	121.89	108.40	4	7
4	A	322	PX4	O1-P1-O3	4.68	86.35	107.57	3	2
4	A	398	PX4	O7-C23-O8	4.68	112.77	123.70	4	6
4	A	354	PX4	O7-C7-C8	4.68	125.12	108.34	11	5
4	A	377	PX4	O5-C8-C7	4.68	121.88	108.40	2	12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	320	PX4	O3-P1-O2	4.67	90.42	108.94	19	6
4	A	353	PX4	C8-C7-C6	4.67	100.89	111.78	20	13
4	A	382	PX4	C7-O7-C23	4.67	128.98	117.80	18	7
4	A	407	PX4	O7-C7-C8	4.67	125.11	108.34	16	11
4	A	379	PX4	C4-N1-C3	4.67	96.72	108.98	11	5
4	A	324	PX4	O7-C23-O8	4.66	112.81	123.70	2	5
4	A	352	PX4	C1-C2-N1	4.65	130.76	115.82	9	10
4	A	320	PX4	O5-C8-C7	4.65	121.80	108.40	19	11
4	A	347	PX4	O5-C8-C7	4.65	121.80	108.40	2	12
4	A	418	PX4	O7-C23-C24	4.65	121.54	111.48	17	14
4	A	332	PX4	C5-N1-C4	4.65	121.18	108.98	17	5
4	A	334	PX4	O5-C8-C7	4.64	121.78	108.40	16	11
4	A	413	PX4	C4-N1-C3	4.64	96.78	108.98	12	7
4	A	365	PX4	O7-C7-C6	4.64	124.99	108.34	2	5
4	A	409	PX4	C8-C7-C6	4.64	100.97	111.78	7	14
4	A	361	PX4	C7-O7-C23	4.64	128.89	117.80	18	7
4	A	381	PX4	C5-N1-C4	4.63	96.80	108.98	20	6
4	A	408	PX4	C7-O7-C23	4.63	128.89	117.80	8	7
4	A	421	PX4	C7-O7-C23	4.63	128.89	117.80	14	3
4	A	362	PX4	P1-O3-C1	4.63	99.23	121.26	13	12
4	A	427	PX4	O7-C23-C24	4.63	121.49	111.48	17	11
4	A	406	PX4	O5-C9-O6	4.62	112.06	123.63	20	7
4	A	313	PX4	C5-N1-C4	4.62	96.84	108.98	8	3
4	A	330	PX4	O5-C8-C7	4.62	121.72	108.40	10	15
4	A	352	PX4	C5-N1-C3	4.62	96.84	108.98	15	4
4	A	416	PX4	P1-O3-C1	4.62	99.26	121.26	15	14
4	A	354	PX4	C5-N1-C3	4.62	96.85	108.98	5	8
4	A	354	PX4	O5-C8-C7	4.61	121.70	108.40	3	11
4	A	358	PX4	O5-C8-C7	4.61	121.69	108.40	1	11
4	A	353	PX4	C11-C10-C9	4.60	96.83	113.69	2	2
4	A	362	PX4	O7-C23-C24	4.60	121.44	111.48	9	9
4	A	402	PX4	O7-C23-C24	4.60	121.43	111.48	18	10
4	A	311	PX4	O7-C23-C24	4.60	121.42	111.48	6	12
4	A	363	PX4	C4-N1-C3	4.59	96.91	108.98	12	10
4	A	326	PX4	O7-C23-C24	4.59	121.41	111.48	7	13
4	A	360	PX4	O7-C7-C8	4.59	124.81	108.34	10	10
4	A	326	PX4	C5-N1-C3	4.59	96.92	108.98	1	4
4	A	371	PX4	C8-C7-C6	4.59	101.09	111.78	20	13
4	A	326	PX4	P1-O4-C6	4.59	95.06	121.35	8	9
4	A	417	PX4	O7-C23-O8	4.59	112.98	123.70	12	7
4	A	339	PX4	C1-C2-N1	4.58	130.53	115.82	4	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	423	PX4	O3-P1-O2	4.58	90.77	108.94	8	1
4	A	339	PX4	P1-O4-C6	4.58	95.10	121.35	15	11
4	A	315	PX4	C7-O7-C23	4.58	128.76	117.80	20	10
4	A	374	PX4	C7-O7-C23	4.58	128.76	117.80	1	8
4	A	399	PX4	O5-C9-C10	4.58	125.79	111.83	12	3
4	A	413	PX4	C5-N1-C3	4.57	96.96	108.98	11	6
4	A	400	PX4	O7-C23-O8	4.57	113.02	123.70	9	5
4	A	388	PX4	O7-C23-C24	4.57	121.37	111.48	6	12
4	A	335	PX4	C7-O7-C23	4.57	106.87	117.80	5	6
4	A	338	PX4	C7-O7-C23	4.57	128.73	117.80	3	4
4	A	312	PX4	C11-C10-C9	4.56	96.98	113.69	19	4
4	A	333	PX4	C7-O7-C23	4.56	128.72	117.80	2	6
4	A	343	PX4	O5-C8-C7	4.56	121.54	108.40	12	11
4	A	359	PX4	P1-O3-C1	4.56	99.57	121.26	20	10
4	A	333	PX4	C8-C7-C6	4.55	101.17	111.78	12	8
4	A	381	PX4	O4-P1-O2	4.55	126.98	108.94	20	5
4	A	330	PX4	O7-C23-O8	4.55	113.07	123.70	9	8
4	A	429	PX4	O5-C9-O6	4.55	112.25	123.63	19	6
4	A	373	PX4	P1-O3-C1	4.55	99.62	121.26	8	17
4	A	380	PX4	P1-O3-C1	4.55	99.62	121.26	17	15
4	A	366	PX4	P1-O3-C1	4.54	99.63	121.26	6	15
4	A	395	PX4	C8-C7-C6	4.54	101.19	111.78	11	10
4	A	379	PX4	O1-P1-O3	4.54	86.98	107.57	18	2
4	A	305	PX4	P1-O4-C6	4.54	95.34	121.35	3	14
4	A	363	PX4	O5-C8-C7	4.54	121.47	108.40	3	12
4	A	380	PX4	C7-O7-C23	4.54	128.65	117.80	5	8
4	A	305	PX4	O5-C9-C10	4.53	125.66	111.83	19	5
4	A	334	PX4	O7-C23-O8	4.53	113.10	123.70	2	7
4	A	368	PX4	O5-C8-C7	4.53	121.46	108.40	2	11
4	A	411	PX4	C4-N1-C3	4.53	97.07	108.98	9	4
4	A	308	PX4	C5-N1-C4	4.53	97.08	108.98	19	6
4	A	372	PX4	O7-C7-C8	4.53	124.59	108.34	17	7
4	A	420	PX4	O5-C8-C7	4.53	121.45	108.40	2	9
4	A	308	PX4	C8-C7-C6	4.52	101.24	111.78	20	12
4	A	408	PX4	O7-C23-O8	4.52	113.13	123.70	9	8
4	A	425	PX4	C4-N1-C3	4.52	97.10	108.98	20	7
4	A	406	PX4	P1-O3-C1	4.52	99.75	121.26	4	17
4	A	305	PX4	C8-C7-C6	4.52	101.25	111.78	18	12
4	A	409	PX4	O7-C23-C24	4.52	121.25	111.48	20	11
4	A	368	PX4	C4-N1-C3	4.52	97.11	108.98	15	4
4	A	308	PX4	O7-C7-C8	4.51	124.52	108.34	4	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	417	PX4	O5-C9-O6	4.51	112.35	123.63	12	8
4	A	316	PX4	C7-O7-C23	4.51	128.58	117.80	6	4
4	A	329	PX4	O3-P1-O2	4.51	91.07	108.94	9	7
4	A	338	PX4	O7-C23-C24	4.51	121.23	111.48	3	10
4	A	429	PX4	P1-O3-C1	4.51	99.81	121.26	12	15
4	A	367	PX4	C8-C7-C6	4.50	101.29	111.78	16	12
4	A	379	PX4	O7-C23-O8	4.50	113.18	123.70	4	3
4	A	409	PX4	O5-C8-C7	4.50	121.38	108.40	11	9
4	A	345	PX4	O7-C7-C8	4.50	124.49	108.34	17	10
4	A	344	PX4	P1-O3-C1	4.49	99.86	121.26	20	17
4	A	417	PX4	O7-C23-C24	4.49	121.20	111.48	20	10
4	A	419	PX4	O7-C7-C8	4.49	124.46	108.34	6	8
4	A	317	PX4	C5-N1-C3	4.48	97.21	108.98	17	6
4	A	362	PX4	C7-O7-C23	4.48	128.52	117.80	17	7
4	A	414	PX4	O7-C23-O8	4.48	113.23	123.70	5	8
4	A	393	PX4	C4-N1-C3	4.48	97.21	108.98	3	7
4	A	323	PX4	O5-C8-C7	4.48	121.31	108.40	5	12
4	A	345	PX4	O5-C8-C7	4.48	121.30	108.40	10	8
4	A	368	PX4	C11-C10-C9	4.48	97.29	113.69	15	1
4	A	330	PX4	C7-O7-C23	4.47	128.50	117.80	5	8
4	A	415	PX4	O7-C23-C24	4.47	121.16	111.48	10	8
4	A	352	PX4	O3-P1-O2	4.47	91.22	108.94	16	4
4	A	385	PX4	O7-C23-C24	4.47	121.15	111.48	13	12
4	A	324	PX4	C1-C2-N1	4.47	130.16	115.82	12	5
4	A	318	PX4	C5-N1-C4	4.47	97.24	108.98	8	6
4	A	342	PX4	O7-C23-C24	4.47	121.14	111.48	14	11
4	A	380	PX4	O7-C23-C24	4.47	121.14	111.48	15	9
4	A	375	PX4	C8-C7-C6	4.46	101.38	111.78	18	10
4	A	326	PX4	O7-C7-C6	4.46	124.35	108.34	1	6
4	A	381	PX4	O7-C23-C24	4.46	121.13	111.48	18	9
4	A	339	PX4	C7-O7-C23	4.46	128.46	117.80	11	6
4	A	415	PX4	C5-N1-C3	4.45	120.68	108.98	19	5
4	A	314	PX4	O7-C23-C24	4.45	121.11	111.48	7	10
4	A	321	PX4	P1-O3-C1	4.45	100.08	121.26	18	15
4	A	395	PX4	C5-N1-C3	4.45	97.29	108.98	2	9
4	A	349	PX4	O5-C9-O6	4.45	112.51	123.63	11	6
4	A	385	PX4	P1-O3-C1	4.45	100.10	121.26	1	13
4	A	385	PX4	O1-P1-O3	4.45	87.41	107.57	6	5
4	A	320	PX4	O7-C7-C8	4.44	124.28	108.34	10	13
4	A	332	PX4	C7-O7-C23	4.44	128.43	117.80	19	5
4	A	369	PX4	O3-P1-O2	4.44	91.32	108.94	8	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	322	PX4	P1-O3-C1	4.44	100.13	121.26	13	16
4	A	404	PX4	O7-C23-C24	4.44	121.08	111.48	5	6
4	A	431	PX4	P1-O3-C1	4.44	100.15	121.26	20	18
4	A	323	PX4	O7-C23-O8	4.43	113.34	123.70	9	8
4	A	367	PX4	O7-C7-C6	4.43	124.25	108.34	16	13
4	A	315	PX4	C11-C10-C9	4.43	97.47	113.69	1	5
4	A	322	PX4	O7-C7-C8	4.43	124.23	108.34	5	6
4	A	332	PX4	P1-O3-C1	4.43	100.18	121.26	12	15
4	A	340	PX4	C5-N1-C3	4.43	97.34	108.98	5	4
4	A	352	PX4	P1-O3-C1	4.43	100.17	121.26	8	14
4	A	401	PX4	O3-P1-O2	4.43	91.38	108.94	17	8
4	A	340	PX4	O5-C9-O6	4.42	112.56	123.63	10	6
4	A	423	PX4	C8-C7-C6	4.42	101.47	111.78	5	12
4	A	312	PX4	O7-C7-C8	4.42	124.20	108.34	11	10
4	A	406	PX4	C8-C7-C6	4.42	101.48	111.78	9	14
4	A	387	PX4	O7-C23-C24	4.42	121.05	111.48	16	13
4	A	320	PX4	C5-N1-C3	4.42	120.58	108.98	9	5
4	A	384	PX4	C1-C2-N1	4.42	130.01	115.82	7	7
4	A	394	PX4	O5-C9-O6	4.42	112.58	123.63	12	9
4	A	318	PX4	C7-O7-C23	4.42	128.37	117.80	18	5
4	A	396	PX4	O5-C9-O6	4.41	112.59	123.63	18	4
4	A	356	PX4	P1-O3-C1	4.41	100.26	121.26	15	17
4	A	322	PX4	C1-C2-N1	4.41	129.97	115.82	11	8
4	A	373	PX4	C7-O7-C23	4.41	128.34	117.80	18	7
4	A	326	PX4	O7-C23-O8	4.41	113.40	123.70	12	8
4	A	403	PX4	C5-N1-C2	4.41	127.42	109.91	17	5
4	A	382	PX4	C5-N1-C3	4.41	97.40	108.98	14	4
4	A	384	PX4	O7-C23-C24	4.40	121.01	111.48	20	8
4	A	421	PX4	O7-C23-C24	4.40	121.01	111.48	14	9
4	A	368	PX4	C1-C2-N1	4.40	129.94	115.82	7	4
4	A	424	PX4	P1-O3-C1	4.40	100.31	121.26	6	16
4	A	351	PX4	C5-N1-C3	4.40	120.52	108.98	20	4
4	A	333	PX4	O7-C7-C6	4.39	124.11	108.34	15	8
4	A	358	PX4	C4-N1-C3	4.39	97.43	108.98	6	5
4	A	365	PX4	P1-O3-C1	4.39	100.34	121.26	4	18
4	A	351	PX4	C1-C2-N1	4.39	129.91	115.82	12	6
4	A	315	PX4	C8-C7-C6	4.39	101.55	111.78	20	9
4	A	306	PX4	O5-C8-C7	4.39	121.04	108.40	8	11
4	A	335	PX4	P1-O3-C1	4.39	100.37	121.26	7	16
4	A	349	PX4	O7-C23-C24	4.38	120.97	111.48	14	11
4	A	381	PX4	P1-O3-C1	4.38	100.41	121.26	20	13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	390	PX4	O5-C9-C10	4.38	125.19	111.83	10	5
4	A	394	PX4	O5-C8-C7	4.38	121.02	108.40	3	12
4	A	364	PX4	O5-C8-C7	4.38	121.01	108.40	15	13
4	A	370	PX4	O7-C23-O8	4.38	113.47	123.70	4	7
4	A	374	PX4	O7-C7-C8	4.38	124.05	108.34	14	8
4	A	377	PX4	C5-N1-C4	4.38	97.48	108.98	3	6
4	A	377	PX4	O7-C7-C8	4.37	124.04	108.34	13	9
4	A	429	PX4	O3-P1-O2	4.37	91.60	108.94	5	1
4	A	313	PX4	P1-O4-C6	4.37	96.29	121.35	2	12
4	A	309	PX4	C8-C7-C6	4.37	101.59	111.78	6	12
4	A	378	PX4	C8-C7-C6	4.37	101.59	111.78	14	15
4	A	315	PX4	O5-C8-C7	4.37	120.98	108.40	7	8
4	A	351	PX4	O7-C23-C24	4.36	120.92	111.48	20	10
4	A	319	PX4	O7-C7-C8	4.36	123.98	108.34	1	8
4	A	333	PX4	P1-O3-C1	4.36	100.51	121.26	7	12
4	A	338	PX4	P1-O3-C1	4.36	100.51	121.26	7	17
4	A	369	PX4	C7-O7-C23	4.36	128.23	117.80	6	5
4	A	393	PX4	P1-O3-C1	4.36	100.52	121.26	2	17
4	A	311	PX4	P1-O4-C6	4.36	96.39	121.35	3	12
4	A	337	PX4	O3-P1-O2	4.35	91.68	108.94	15	3
4	A	368	PX4	P1-O4-C6	4.35	96.40	121.35	10	10
4	A	423	PX4	P1-O3-C1	4.35	100.55	121.26	9	18
4	A	375	PX4	O5-C8-C7	4.35	120.93	108.40	15	10
4	A	376	PX4	C8-C7-C6	4.35	101.65	111.78	19	12
4	A	355	PX4	C5-N1-C4	4.35	97.56	108.98	13	3
4	A	412	PX4	C8-C7-C6	4.35	101.65	111.78	10	13
4	A	341	PX4	C5-N1-C4	4.34	120.39	108.98	6	3
4	A	333	PX4	O7-C23-C24	4.34	120.88	111.48	1	11
4	A	425	PX4	P1-O3-C1	4.34	100.59	121.26	2	17
4	A	420	PX4	C7-O7-C23	4.34	128.18	117.80	16	5
4	A	395	PX4	C7-O7-C23	4.34	128.18	117.80	16	5
4	A	419	PX4	O3-P1-O2	4.34	91.74	108.94	6	6
4	A	319	PX4	C5-N1-C4	4.33	97.59	108.98	16	5
4	A	359	PX4	O7-C23-O8	4.34	113.57	123.70	15	9
4	A	382	PX4	P1-O3-C1	4.33	100.62	121.26	14	15
4	A	403	PX4	O7-C23-O8	4.33	113.58	123.70	8	7
4	A	413	PX4	C8-C7-C6	4.33	101.69	111.78	13	12
4	A	358	PX4	O5-C9-C10	4.33	125.02	111.83	20	4
4	A	341	PX4	P1-O3-C1	4.32	100.68	121.26	1	14
4	A	368	PX4	P1-O3-C1	4.32	100.69	121.26	3	16
4	A	377	PX4	P1-O3-C1	4.32	100.69	121.26	2	18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	324	PX4	O5-C8-C7	4.32	120.85	108.40	5	10
4	A	353	PX4	C17-C16-C15	4.31	92.56	114.37	13	1
4	A	308	PX4	O5-C8-C7	4.31	120.83	108.40	13	14
4	A	367	PX4	O5-C8-C7	4.31	120.82	108.40	6	11
4	A	318	PX4	P1-O4-C6	4.31	96.67	121.35	14	10
4	A	330	PX4	O7-C7-C6	4.31	123.79	108.34	5	5
4	A	318	PX4	C8-O5-C9	4.31	101.38	117.12	12	3
4	A	382	PX4	O1-P1-O2	4.30	132.46	112.44	9	8
4	A	366	PX4	C7-O7-C23	4.30	128.09	117.80	8	6
4	A	400	PX4	C8-C7-C6	4.30	101.76	111.78	20	12
4	A	388	PX4	P1-O3-C1	4.30	100.78	121.26	18	15
4	A	407	PX4	C7-O7-C23	4.30	128.09	117.80	12	6
4	A	410	PX4	P1-O3-C1	4.30	100.79	121.26	4	14
4	A	426	PX4	O5-C8-C7	4.30	120.80	108.40	16	11
4	A	383	PX4	C7-O7-C23	4.30	128.09	117.80	7	5
4	A	389	PX4	O3-P1-O2	4.30	91.89	108.94	8	5
4	A	321	PX4	O7-C7-C6	4.30	123.76	108.34	2	8
4	A	327	PX4	O5-C8-C7	4.30	120.78	108.40	7	10
4	A	391	PX4	O7-C23-C24	4.29	120.77	111.48	13	9
4	A	394	PX4	O7-C23-C24	4.29	120.77	111.48	15	9
4	A	361	PX4	P1-O4-C6	4.29	96.77	121.35	16	16
4	A	312	PX4	P1-O4-C6	4.29	96.78	121.35	10	12
4	A	351	PX4	C4-N1-C3	4.29	97.71	108.98	20	2
4	A	412	PX4	O7-C7-C8	4.29	123.72	108.34	10	10
4	A	422	PX4	P1-O3-C1	4.29	100.85	121.26	15	16
4	A	366	PX4	O5-C9-C10	4.29	124.90	111.83	18	8
4	A	308	PX4	O7-C23-C24	4.28	120.74	111.48	11	9
4	A	327	PX4	C5-N1-C4	4.28	120.22	108.98	19	5
4	A	356	PX4	O7-C7-C8	4.28	123.69	108.34	6	7
4	A	413	PX4	O5-C8-C7	4.28	120.73	108.40	13	11
4	A	397	PX4	C5-N1-C4	4.28	97.73	108.98	2	7
4	A	358	PX4	O7-C7-C8	4.28	123.69	108.34	19	7
4	A	373	PX4	C4-N1-C3	4.28	97.74	108.98	18	5
4	A	328	PX4	O7-C7-C8	4.27	123.67	108.34	7	8
4	A	346	PX4	C8-C7-C6	4.27	101.82	111.78	18	11
4	A	429	PX4	C1-C2-N1	4.27	129.54	115.82	18	4
4	A	398	PX4	O5-C8-C7	4.27	120.71	108.40	19	11
4	A	339	PX4	O7-C23-O8	4.27	113.72	123.70	20	3
4	A	349	PX4	C5-N1-C3	4.27	97.76	108.98	10	8
4	A	413	PX4	O3-P1-O2	4.27	92.01	108.94	5	5
4	A	382	PX4	P1-O4-C6	4.27	96.91	121.35	17	12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	383	PX4	P1-O3-C1	4.26	100.96	121.26	11	13
4	A	426	PX4	P1-O4-C6	4.26	96.92	121.35	17	12
4	A	392	PX4	O1-P1-O2	4.26	132.27	112.44	9	11
4	A	392	PX4	O3-P1-O2	4.26	92.04	108.94	10	5
4	A	369	PX4	P1-O4-C6	4.26	96.94	121.35	8	13
4	A	409	PX4	C7-O7-C23	4.26	127.99	117.80	3	6
4	A	360	PX4	O5-C9-C10	4.25	124.80	111.83	16	6
4	A	373	PX4	O5-C8-C7	4.25	120.65	108.40	2	12
4	A	405	PX4	P1-O3-C1	4.25	101.02	121.26	6	16
4	A	413	PX4	O7-C23-O8	4.25	113.77	123.70	5	6
4	A	405	PX4	O5-C9-C10	4.25	124.79	111.83	19	8
4	A	344	PX4	O7-C7-C6	4.25	123.58	108.34	14	8
4	A	381	PX4	O7-C7-C6	4.25	123.57	108.34	8	6
4	A	383	PX4	O5-C9-C10	4.25	124.78	111.83	17	5
4	A	424	PX4	O5-C8-C7	4.24	120.63	108.40	12	12
4	A	334	PX4	P1-O3-C1	4.24	101.07	121.26	4	12
4	A	337	PX4	P1-O3-C1	4.24	101.07	121.26	15	16
4	A	345	PX4	C1-C2-N1	4.24	129.44	115.82	4	4
4	A	425	PX4	O1-P1-O2	4.24	132.18	112.44	15	9
4	A	354	PX4	O4-P1-O2	4.24	125.74	108.94	8	5
4	A	348	PX4	P1-O3-C1	4.24	101.09	121.26	15	14
4	A	414	PX4	C1-C2-N1	4.24	129.42	115.82	20	6
4	A	411	PX4	C7-O7-C23	4.23	127.93	117.80	2	7
4	A	402	PX4	C5-N1-C3	4.23	97.86	108.98	8	2
4	A	414	PX4	O7-C7-C8	4.23	123.52	108.34	16	10
4	A	342	PX4	C4-N1-C3	4.23	97.87	108.98	9	7
4	A	402	PX4	C8-C7-C6	4.23	101.93	111.78	20	11
4	A	306	PX4	C7-O7-C23	4.23	127.91	117.80	3	8
4	A	317	PX4	C7-O7-C23	4.22	107.69	117.80	7	5
4	A	334	PX4	O1-P1-O3	4.22	88.43	107.57	14	3
4	A	417	PX4	C5-N1-C3	4.22	97.89	108.98	5	1
4	A	358	PX4	P1-O3-C1	4.22	101.17	121.26	7	16
4	A	370	PX4	C5-N1-C4	4.22	97.89	108.98	18	2
4	A	375	PX4	O7-C23-C24	4.22	120.61	111.48	1	13
4	A	389	PX4	O7-C7-C6	4.22	123.48	108.34	15	7
4	A	317	PX4	P1-O3-C1	4.22	101.19	121.26	9	16
4	A	332	PX4	O1-P1-O2	4.22	132.06	112.44	17	8
4	A	406	PX4	C7-O7-C23	4.22	127.89	117.80	8	5
4	A	420	PX4	O7-C23-C24	4.22	120.60	111.48	4	10
4	A	318	PX4	P1-O3-C1	4.21	101.20	121.26	2	15
4	A	374	PX4	C5-N1-C4	4.21	97.91	108.98	16	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	395	PX4	P1-O4-C6	4.21	97.21	121.35	10	11
4	A	421	PX4	P1-O3-C1	4.21	101.20	121.26	6	12
4	A	316	PX4	O7-C23-C24	4.21	120.59	111.48	19	14
4	A	313	PX4	O7-C7-C8	4.21	123.45	108.34	18	7
4	A	420	PX4	O7-C7-C8	4.21	123.45	108.34	4	9
4	A	307	PX4	P1-O3-C1	4.21	101.23	121.26	5	17
4	A	356	PX4	O7-C7-C6	4.21	123.44	108.34	13	5
4	A	359	PX4	O5-C9-O6	4.21	113.11	123.63	13	2
4	A	363	PX4	C7-O7-C23	4.21	127.87	117.80	6	6
4	A	336	PX4	O3-P1-O2	4.21	92.26	108.94	7	5
4	A	418	PX4	C7-O7-C23	4.21	127.86	117.80	16	6
4	A	430	PX4	P1-O3-C1	4.21	101.24	121.26	1	14
4	A	357	PX4	O7-C23-O8	4.20	113.88	123.70	5	5
4	A	315	PX4	O4-P1-O2	4.20	125.59	108.94	20	4
4	A	317	PX4	P1-O4-C6	4.20	97.28	121.35	13	9
4	A	323	PX4	O7-C7-C6	4.20	123.42	108.34	12	4
4	A	430	PX4	C5-N1-C3	4.20	97.94	108.98	4	6
4	A	419	PX4	O7-C23-O8	4.20	113.88	123.70	5	9
4	A	339	PX4	O5-C8-C7	4.20	120.50	108.40	9	10
4	A	361	PX4	C8-C7-C6	4.20	101.99	111.78	5	13
4	A	378	PX4	O7-C23-O8	4.20	113.89	123.70	19	7
4	A	393	PX4	O7-C7-C6	4.20	123.41	108.34	8	7
4	A	312	PX4	O5-C9-C10	4.20	124.63	111.83	4	7
4	A	381	PX4	C7-O7-C23	4.20	127.84	117.80	7	8
4	A	312	PX4	C5-N1-C4	4.20	97.95	108.98	10	6
4	A	420	PX4	C11-C10-C9	4.20	98.32	113.69	12	2
4	A	319	PX4	O7-C23-C24	4.19	120.56	111.48	15	8
4	A	408	PX4	O1-P1-O2	4.19	131.95	112.44	4	7
4	A	327	PX4	O7-C23-O8	4.19	113.91	123.70	20	6
4	A	388	PX4	O7-C7-C6	4.19	123.37	108.34	6	7
4	A	377	PX4	C1-C2-N1	4.19	129.26	115.82	3	9
4	A	411	PX4	C12-C11-C10	4.19	97.74	113.13	4	3
4	A	311	PX4	O3-P1-O2	4.19	92.35	108.94	16	4
4	A	418	PX4	C1-C2-N1	4.19	129.26	115.82	13	6
4	A	329	PX4	O5-C8-C7	4.18	120.46	108.40	17	12
4	A	399	PX4	C5-N1-C3	4.18	97.99	108.98	2	7
4	A	378	PX4	P1-O3-C1	4.18	101.35	121.26	3	18
4	A	405	PX4	O4-P1-O2	4.18	125.51	108.94	1	3
4	A	325	PX4	P1-O3-C1	4.18	101.36	121.26	4	17
4	A	355	PX4	O5-C8-C7	4.18	120.44	108.40	2	14
4	A	327	PX4	O5-C9-O6	4.18	113.18	123.63	2	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	331	PX4	O5-C8-C7	4.17	120.43	108.40	19	9
4	A	347	PX4	O7-C7-C6	4.17	123.32	108.34	14	8
4	A	330	PX4	C8-C7-C6	4.17	102.06	111.78	11	12
4	A	370	PX4	O5-C8-C7	4.17	120.42	108.40	8	10
4	A	393	PX4	O7-C23-C24	4.17	120.51	111.48	18	10
4	A	393	PX4	C11-C10-C9	4.17	98.41	113.69	2	1
4	A	330	PX4	O5-C9-O6	4.17	113.20	123.63	9	6
4	A	342	PX4	P1-O3-C1	4.17	101.42	121.26	3	15
4	A	376	PX4	C4-N1-C3	4.16	98.04	108.98	8	5
4	A	386	PX4	C4-N1-C3	4.16	119.91	108.98	18	3
4	A	428	PX4	C4-N1-C3	4.16	98.04	108.98	18	7
4	A	312	PX4	P1-O3-C1	4.16	101.45	121.26	15	18
4	A	359	PX4	O7-C23-C24	4.16	120.48	111.48	3	12
4	A	404	PX4	P1-O3-C1	4.16	101.45	121.26	16	16
4	A	399	PX4	C8-C7-C6	4.16	102.09	111.78	10	16
4	A	407	PX4	O1-P1-O2	4.15	131.77	112.44	14	8
4	A	423	PX4	C7-O7-C23	4.15	127.74	117.80	1	6
4	A	347	PX4	C12-C11-C10	4.15	97.87	113.13	11	4
4	A	385	PX4	C7-O7-C23	4.15	127.73	117.80	11	9
4	A	389	PX4	O7-C23-O8	4.15	114.00	123.70	15	6
4	A	428	PX4	O3-P1-O2	4.15	92.50	108.94	19	6
4	A	362	PX4	O5-C8-C7	4.14	120.34	108.40	10	8
4	A	428	PX4	O7-C23-O8	4.14	114.02	123.70	3	7
4	A	408	PX4	C8-C7-C6	4.14	102.14	111.78	19	15
4	A	311	PX4	P1-O3-C1	4.14	101.57	121.26	17	15
4	A	426	PX4	C5-N1-C3	4.14	98.11	108.98	3	2
4	A	310	PX4	P1-O4-C6	4.14	97.65	121.35	2	12
4	A	334	PX4	C12-C11-C10	4.14	97.93	113.13	8	3
4	A	382	PX4	C4-N1-C3	4.14	98.11	108.98	20	6
4	A	396	PX4	O7-C23-O8	4.14	114.04	123.70	1	7
4	A	390	PX4	P1-O4-C6	4.13	97.66	121.35	17	14
4	A	305	PX4	O7-C7-C6	4.13	123.17	108.34	2	8
4	A	369	PX4	P1-O3-C1	4.13	101.60	121.26	5	15
4	A	428	PX4	O5-C8-C7	4.13	120.30	108.40	6	11
4	A	430	PX4	C4-N1-C3	4.13	98.13	108.98	6	4
4	A	402	PX4	O7-C7-C6	4.13	123.16	108.34	19	6
4	A	409	PX4	C5-N1-C3	4.13	98.13	108.98	5	4
4	A	414	PX4	O5-C8-C7	4.13	120.30	108.40	11	13
4	A	371	PX4	O5-C8-C7	4.12	120.28	108.40	4	12
4	A	378	PX4	C5-N1-C4	4.12	119.80	108.98	14	5
4	A	309	PX4	O5-C9-O6	4.12	113.33	123.63	19	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	383	PX4	C8-C7-C6	4.12	102.18	111.78	6	11
4	A	352	PX4	O7-C7-C6	4.12	123.12	108.34	16	9
4	A	418	PX4	O1-P1-O2	4.12	131.60	112.44	4	15
4	A	391	PX4	O1-P1-O2	4.12	131.59	112.44	17	7
4	A	371	PX4	P1-O3-C1	4.11	101.67	121.26	4	18
4	A	429	PX4	O7-C23-C24	4.11	120.38	111.48	9	8
4	A	346	PX4	O1-P1-O2	4.11	131.57	112.44	20	18
4	A	320	PX4	C12-C11-C10	4.11	98.02	113.13	3	4
4	A	391	PX4	C5-N1-C4	4.11	98.18	108.98	18	3
4	A	393	PX4	O1-P1-O2	4.11	131.56	112.44	14	14
4	A	363	PX4	P1-O4-C6	4.11	97.83	121.35	14	13
4	A	368	PX4	O7-C23-O8	4.11	114.11	123.70	17	6
4	A	411	PX4	C8-C7-C6	4.11	102.21	111.78	19	10
4	A	423	PX4	C1-C2-N1	4.10	129.00	115.82	5	6
4	A	407	PX4	O1-P1-O3	4.10	126.17	107.57	2	2
4	A	334	PX4	O5-C9-O6	4.10	113.37	123.63	6	8
4	A	411	PX4	P1-O4-C6	4.10	97.85	121.35	11	12
4	A	393	PX4	O1-P1-O3	4.10	88.98	107.57	2	3
4	A	315	PX4	O7-C23-O8	4.10	114.13	123.70	9	5
4	A	347	PX4	P1-O3-C1	4.10	101.76	121.26	18	15
4	A	327	PX4	C1-C2-N1	4.09	128.97	115.82	13	4
4	A	308	PX4	P1-O4-C6	4.09	97.90	121.35	13	11
4	A	329	PX4	P1-O4-C6	4.09	97.90	121.35	2	11
4	A	379	PX4	P1-O3-C1	4.09	101.78	121.26	17	15
4	A	417	PX4	P1-O3-C1	4.09	101.77	121.26	7	13
4	A	342	PX4	C5-N1-C3	4.09	119.72	108.98	13	4
4	A	340	PX4	O5-C8-C7	4.09	120.18	108.40	1	6
4	A	338	PX4	O7-C7-C6	4.09	123.01	108.34	7	5
4	A	370	PX4	P1-O3-C1	4.09	101.80	121.26	15	11
4	A	397	PX4	C8-C7-C6	4.09	102.25	111.78	15	14
4	A	419	PX4	C4-N1-C3	4.09	98.24	108.98	6	5
4	A	311	PX4	C8-C7-C6	4.09	102.26	111.78	19	10
4	A	406	PX4	C26-C25-C24	4.09	98.11	113.13	6	4
4	A	324	PX4	C7-O7-C23	4.08	127.57	117.80	17	9
4	A	351	PX4	C12-C11-C10	4.08	98.12	113.13	18	3
4	A	426	PX4	C7-O7-C23	4.08	127.57	117.80	12	5
4	A	311	PX4	C1-C2-N1	4.08	128.92	115.82	7	8
4	A	346	PX4	P1-O4-C6	4.08	97.97	121.35	9	11
4	A	351	PX4	C7-O7-C23	4.08	127.56	117.80	8	9
4	A	382	PX4	O3-P1-O2	4.08	92.77	108.94	18	3
4	A	401	PX4	O5-C8-C7	4.07	120.14	108.40	10	9

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	411	PX4	O7-C7-C8	4.07	122.96	108.34	19	8
4	A	339	PX4	O4-P1-O2	4.07	92.80	108.94	11	2
4	A	306	PX4	C12-C11-C10	4.07	98.18	113.13	13	5
4	A	320	PX4	C11-C10-C9	4.07	98.79	113.69	3	3
4	A	384	PX4	O1-P1-O2	4.07	131.37	112.44	3	6
4	A	358	PX4	C26-C25-C24	4.07	98.18	113.13	9	1
4	A	365	PX4	C7-O7-C23	4.07	108.06	117.80	7	6
4	A	410	PX4	O7-C7-C8	4.07	122.94	108.34	3	9
4	A	306	PX4	O5-C9-C10	4.06	124.23	111.83	5	5
4	A	390	PX4	O7-C23-O8	4.06	114.21	123.70	3	5
4	A	367	PX4	C1-C2-N1	4.06	128.86	115.82	20	4
4	A	397	PX4	O7-C23-O8	4.06	114.22	123.70	4	4
4	A	344	PX4	O5-C8-C7	4.06	120.09	108.40	2	14
4	A	410	PX4	O5-C9-O6	4.06	113.48	123.63	6	8
4	A	333	PX4	O7-C7-C8	4.05	122.89	108.34	14	10
4	A	354	PX4	P1-O4-C6	4.05	98.12	121.35	3	12
4	A	351	PX4	P1-O4-C6	4.05	98.14	121.35	11	10
4	A	361	PX4	P1-O3-C1	4.05	101.99	121.26	17	17
4	A	385	PX4	O7-C23-O8	4.05	114.24	123.70	13	7
4	A	424	PX4	P1-O4-C6	4.05	98.16	121.35	20	12
4	A	430	PX4	O3-P1-O2	4.05	124.98	108.94	17	4
4	A	387	PX4	P1-O3-C1	4.05	102.00	121.26	15	14
4	A	415	PX4	O5-C9-O6	4.05	113.51	123.63	6	6
4	A	396	PX4	P1-O3-C1	4.04	102.01	121.26	19	14
4	A	396	PX4	O5-C9-C10	4.04	124.16	111.83	1	6
4	A	418	PX4	P1-O4-C6	4.04	98.18	121.35	1	15
4	A	429	PX4	P1-O4-C6	4.04	98.17	121.35	7	10
4	A	400	PX4	O5-C9-C10	4.04	124.16	111.83	19	7
4	A	409	PX4	P1-O3-C1	4.04	102.02	121.26	20	15
4	A	412	PX4	O5-C9-O6	4.04	113.52	123.63	3	3
4	A	352	PX4	P1-O4-C6	4.04	98.19	121.35	12	11
4	A	420	PX4	O4-P1-O2	4.04	124.95	108.94	16	2
4	A	329	PX4	O1-P1-O2	4.04	131.24	112.44	8	18
4	A	336	PX4	O5-C8-C7	4.04	120.04	108.40	6	14
4	A	368	PX4	O7-C7-C6	4.04	122.84	108.34	15	11
4	A	386	PX4	C5-N1-C3	4.04	98.36	108.98	11	6
4	A	347	PX4	C1-C2-N1	4.04	128.78	115.82	7	4
4	A	388	PX4	O3-P1-O2	4.04	92.92	108.94	2	5
4	A	408	PX4	C5-N1-C4	4.04	98.37	108.98	16	7
4	A	380	PX4	C5-N1-C4	4.03	98.38	108.98	9	2
4	A	398	PX4	P1-O3-C1	4.03	102.06	121.26	8	17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	305	PX4	O5-C9-O6	4.03	113.54	123.63	8	5
4	A	343	PX4	C5-N1-C4	4.03	98.38	108.98	15	5
4	A	330	PX4	C4-N1-C3	4.03	98.39	108.98	16	7
4	A	312	PX4	C5-N1-C3	4.03	119.56	108.98	8	4
4	A	428	PX4	O5-C9-O6	4.03	113.55	123.63	17	6
4	A	350	PX4	O7-C7-C8	4.03	122.79	108.34	4	7
4	A	315	PX4	P1-O4-C6	4.02	98.29	121.35	8	15
4	A	320	PX4	C8-C7-C6	4.03	102.40	111.78	17	8
4	A	325	PX4	C1-C2-N1	4.02	128.73	115.82	9	4
4	A	395	PX4	O7-C23-O8	4.02	114.30	123.70	19	8
4	A	414	PX4	C5-N1-C3	4.02	98.41	108.98	6	4
4	A	309	PX4	O7-C23-C24	4.02	120.17	111.48	19	8
4	A	402	PX4	C33-C32-C31	4.02	94.06	114.37	17	3
4	A	349	PX4	O7-C7-C8	4.01	122.75	108.34	4	6
4	A	329	PX4	C5-N1-C4	4.01	119.51	108.98	9	3
4	A	342	PX4	O1-P1-O2	4.01	131.10	112.44	10	10
4	A	360	PX4	O7-C7-C6	4.01	122.73	108.34	7	9
4	A	401	PX4	C1-C2-N1	4.01	128.69	115.82	12	8
4	A	412	PX4	P1-O3-C1	4.01	102.17	121.26	7	16
4	A	312	PX4	C25-C24-C23	4.01	99.00	113.69	17	3
4	A	399	PX4	C7-O7-C23	4.01	127.39	117.80	12	7
4	A	410	PX4	C5-N1-C3	4.01	98.45	108.98	18	6
4	A	423	PX4	C5-N1-C3	4.01	98.45	108.98	13	6
4	A	362	PX4	C4-N1-C3	4.01	98.45	108.98	17	4
4	A	407	PX4	C5-N1-C4	4.01	119.50	108.98	9	4
4	A	376	PX4	P1-O4-C6	4.00	98.42	121.35	17	10
4	A	427	PX4	C7-O7-C23	4.00	108.22	117.80	14	8
4	A	319	PX4	O5-C9-C10	4.00	124.03	111.83	20	6
4	A	333	PX4	O4-P1-O2	4.00	93.10	108.94	19	4
4	A	372	PX4	C4-N1-C3	4.00	98.48	108.98	7	7
4	A	425	PX4	O5-C8-C7	4.00	119.92	108.40	8	10
4	A	431	PX4	P1-O4-C6	4.00	98.45	121.35	7	14
4	A	305	PX4	O3-P1-O2	3.99	93.11	108.94	17	3
4	A	408	PX4	O7-C7-C8	3.99	122.67	108.34	16	9
4	A	350	PX4	O5-C9-C10	3.99	124.00	111.83	20	5
4	A	307	PX4	O5-C9-C10	3.99	124.00	111.83	18	4
4	A	320	PX4	C4-N1-C3	3.99	98.50	108.98	12	5
4	A	386	PX4	O7-C7-C8	3.99	122.66	108.34	1	7
4	A	313	PX4	O4-P1-O2	3.98	124.72	108.94	17	6
4	A	327	PX4	C5-N1-C3	3.98	119.44	108.98	13	3
4	A	329	PX4	P1-O3-C1	3.98	102.29	121.26	16	17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	354	PX4	P1-O3-C1	3.98	102.30	121.26	9	17
4	A	373	PX4	O7-C23-O8	3.98	114.39	123.70	8	6
4	A	397	PX4	O7-C7-C8	3.98	122.63	108.34	11	10
4	A	332	PX4	O5-C9-O6	3.98	113.67	123.63	5	4
4	A	311	PX4	C5-N1-C3	3.98	98.53	108.98	5	8
4	A	371	PX4	C26-C25-C24	3.98	98.51	113.13	3	4
4	A	323	PX4	O7-C23-C24	3.98	120.08	111.48	16	4
4	A	328	PX4	O7-C23-O8	3.98	114.41	123.70	11	9
4	A	368	PX4	O7-C23-C24	3.97	120.08	111.48	5	13
4	A	305	PX4	O5-C8-C7	3.97	119.85	108.40	20	7
4	A	387	PX4	C1-C2-N1	3.97	128.57	115.82	6	4
4	A	349	PX4	P1-O3-C1	3.97	102.37	121.26	18	14
4	A	376	PX4	O7-C23-O8	3.97	114.43	123.70	2	8
4	A	316	PX4	O7-C7-C6	3.97	122.58	108.34	2	8
4	A	322	PX4	O7-C23-C24	3.97	120.06	111.48	19	12
4	A	377	PX4	O5-C9-O6	3.97	113.71	123.63	18	6
4	A	338	PX4	C26-C25-C24	3.96	98.56	113.13	12	4
4	A	332	PX4	O7-C23-O8	3.96	114.44	123.70	5	10
4	A	314	PX4	C25-C24-C23	3.96	99.18	113.69	4	2
4	A	415	PX4	O7-C7-C8	3.96	122.55	108.34	3	10
4	A	361	PX4	O7-C7-C6	3.96	122.55	108.34	11	9
4	A	391	PX4	O7-C23-O8	3.96	114.45	123.70	19	5
4	A	430	PX4	O5-C9-O6	3.96	113.72	123.63	10	6
4	A	314	PX4	C5-N1-C3	3.96	98.59	108.98	4	3
4	A	399	PX4	C11-C10-C9	3.96	99.20	113.69	10	2
4	A	420	PX4	C1-C2-N1	3.96	128.52	115.82	13	4
4	A	342	PX4	C7-O7-C23	3.95	127.26	117.80	14	5
4	A	383	PX4	P1-O4-C6	3.95	98.69	121.35	15	17
4	A	329	PX4	C7-O7-C23	3.95	127.25	117.80	2	6
4	A	363	PX4	O1-P1-O2	3.95	130.83	112.44	1	14
4	A	308	PX4	O7-C7-C6	3.95	122.51	108.34	9	6
4	A	338	PX4	O7-C7-C8	3.95	122.52	108.34	9	8
4	A	365	PX4	P1-O4-C6	3.95	98.72	121.35	1	12
4	A	431	PX4	C7-O7-C23	3.95	127.25	117.80	9	13
4	A	328	PX4	O1-P1-O2	3.95	130.81	112.44	6	8
4	A	371	PX4	P1-O4-C6	3.95	98.74	121.35	3	14
4	A	361	PX4	O7-C7-C8	3.95	122.50	108.34	3	9
4	A	331	PX4	O3-P1-O2	3.94	93.31	108.94	13	7
4	A	334	PX4	C7-O7-C23	3.94	127.23	117.80	4	5
4	A	377	PX4	O3-P1-O2	3.94	93.31	108.94	6	4
4	A	345	PX4	C7-O7-C23	3.94	127.22	117.80	4	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	380	PX4	O1-P1-O2	3.94	130.77	112.44	14	11
4	A	329	PX4	O7-C7-C8	3.94	122.47	108.34	4	8
4	A	312	PX4	C12-C11-C10	3.93	98.67	113.13	1	3
4	A	344	PX4	C7-O7-C23	3.94	127.21	117.80	5	3
4	A	330	PX4	O7-C7-C8	3.93	122.45	108.34	4	8
4	A	355	PX4	P1-O4-C6	3.93	98.82	121.35	20	13
4	A	394	PX4	C7-O7-C23	3.93	127.20	117.80	12	5
4	A	346	PX4	P1-O3-C1	3.93	102.55	121.26	20	16
4	A	346	PX4	O7-C7-C6	3.93	122.44	108.34	16	4
4	A	395	PX4	C34-C33-C32	3.93	94.50	114.37	2	5
4	A	332	PX4	C8-O5-C9	3.93	102.76	117.12	13	3
4	A	420	PX4	C4-N1-C3	3.93	98.66	108.98	14	6
4	A	325	PX4	C3-N1-C2	3.93	125.52	109.91	16	2
4	A	376	PX4	O4-P1-O2	3.93	124.50	108.94	14	2
4	A	405	PX4	O7-C7-C8	3.93	122.43	108.34	1	7
4	A	386	PX4	O7-C23-O8	3.93	114.52	123.70	13	5
4	A	413	PX4	P1-O3-C1	3.93	102.57	121.26	1	14
4	A	340	PX4	P1-O3-C1	3.92	102.58	121.26	8	13
4	A	340	PX4	O7-C23-O8	3.92	114.53	123.70	5	5
4	A	326	PX4	O7-C7-C8	3.92	122.42	108.34	5	12
4	A	343	PX4	O5-C9-C10	3.92	123.80	111.83	7	3
4	A	321	PX4	O7-C23-O8	3.92	114.54	123.70	5	6
4	A	328	PX4	C5-N1-C3	3.92	98.68	108.98	12	2
4	A	422	PX4	O5-C9-C10	3.92	123.79	111.83	18	7
4	A	381	PX4	P1-O4-C6	3.92	98.88	121.35	14	11
4	A	309	PX4	C5-N1-C4	3.92	98.68	108.98	8	4
4	A	391	PX4	P1-O3-C1	3.92	102.60	121.26	16	13
4	A	402	PX4	C1-C2-N1	3.92	128.40	115.82	19	4
4	A	306	PX4	P1-O3-C1	3.92	102.62	121.26	14	15
4	A	379	PX4	C7-O7-C23	3.92	127.17	117.80	4	5
4	A	399	PX4	O1-P1-O4	3.91	125.31	107.57	6	4
4	A	315	PX4	C4-N1-C3	3.91	98.71	108.98	10	4
4	A	338	PX4	O4-P1-O2	3.91	124.43	108.94	15	4
4	A	375	PX4	O7-C7-C8	3.91	122.37	108.34	16	7
4	A	409	PX4	O1-P1-O2	3.91	130.63	112.44	8	10
4	A	397	PX4	C5-N1-C3	3.91	98.71	108.98	14	6
4	A	340	PX4	O5-C9-C10	3.91	123.75	111.83	9	4
4	A	325	PX4	O5-C9-O6	3.91	113.86	123.63	11	1
4	A	365	PX4	C5-N1-C4	3.91	98.72	108.98	20	6
4	A	339	PX4	P1-O3-C1	3.90	102.67	121.26	4	13
4	A	355	PX4	C7-O7-C23	3.90	127.14	117.80	9	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	411	PX4	C31-C30-C29	3.90	94.64	114.37	3	2
4	A	422	PX4	C5-N1-C3	3.90	98.72	108.98	10	3
4	A	364	PX4	O5-C9-C10	3.90	123.73	111.83	15	9
4	A	421	PX4	O7-C23-O8	3.90	114.58	123.70	3	7
4	A	370	PX4	C1-C2-N1	3.90	128.34	115.82	16	4
4	A	323	PX4	O3-P1-O2	3.90	93.49	108.94	8	5
4	A	370	PX4	O5-C9-C10	3.90	123.72	111.83	1	8
4	A	360	PX4	O5-C8-C7	3.89	119.61	108.40	14	14
4	A	392	PX4	P1-O4-C6	3.89	99.04	121.35	20	12
4	A	394	PX4	P1-O4-C6	3.89	99.05	121.35	10	14
4	A	307	PX4	O1-P1-O2	3.89	130.54	112.44	10	12
4	A	402	PX4	C4-N1-C3	3.89	98.76	108.98	3	6
4	A	420	PX4	O7-C7-C6	3.89	122.30	108.34	9	12
4	A	333	PX4	O7-C23-O8	3.89	114.62	123.70	18	7
4	A	344	PX4	P1-O4-C6	3.89	99.07	121.35	19	15
4	A	338	PX4	O5-C9-O6	3.89	113.91	123.63	17	5
4	A	349	PX4	C1-C2-N1	3.89	128.29	115.82	13	8
4	A	381	PX4	C25-C24-C23	3.89	99.45	113.69	7	1
4	A	360	PX4	P1-O3-C1	3.88	102.78	121.26	3	17
4	A	431	PX4	O1-P1-O2	3.88	130.51	112.44	6	10
4	A	392	PX4	O7-C7-C6	3.88	122.27	108.34	5	8
4	A	430	PX4	O7-C7-C6	3.88	122.27	108.34	18	11
4	A	310	PX4	O3-P1-O2	3.88	93.56	108.94	16	3
4	A	338	PX4	O5-C9-C10	3.88	123.66	111.83	6	5
4	A	362	PX4	P1-O4-C6	3.88	99.12	121.35	9	10
4	A	416	PX4	C7-O7-C23	3.88	127.08	117.80	18	4
4	A	307	PX4	O1-P1-O4	3.88	125.14	107.57	15	5
4	A	389	PX4	P1-O4-C6	3.88	99.13	121.35	2	13
4	A	382	PX4	O7-C23-O8	3.88	114.64	123.70	4	10
4	A	384	PX4	O5-C9-C10	3.88	123.65	111.83	15	7
4	A	408	PX4	O4-P1-O2	3.87	124.28	108.94	8	1
4	A	354	PX4	O7-C7-C6	3.87	122.22	108.34	16	6
4	A	328	PX4	O5-C8-C7	3.87	119.55	108.40	12	8
4	A	343	PX4	P1-O4-C6	3.87	99.19	121.35	2	11
4	A	400	PX4	P1-O3-C1	3.87	102.85	121.26	18	14
4	A	307	PX4	O3-P1-O2	3.87	93.61	108.94	15	6
4	A	321	PX4	C12-C11-C10	3.87	98.92	113.13	8	3
4	A	374	PX4	O5-C9-O6	3.87	113.95	123.63	12	7
4	A	406	PX4	O5-C9-C10	3.87	123.62	111.83	12	8
4	A	388	PX4	C4-N1-C3	3.87	98.82	108.98	4	6
4	A	424	PX4	C7-O7-C23	3.87	127.05	117.80	4	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	360	PX4	O1-P1-O2	3.87	130.43	112.44	16	8
4	A	361	PX4	O5-C9-O6	3.86	113.97	123.63	10	5
4	A	387	PX4	O5-C9-O6	3.86	113.97	123.63	18	6
4	A	419	PX4	O5-C8-C7	3.86	119.53	108.40	16	10
4	A	423	PX4	O1-P1-O2	3.86	130.40	112.44	3	8
4	A	373	PX4	C1-C2-N1	3.86	128.21	115.82	13	4
4	A	424	PX4	O7-C7-C8	3.86	122.19	108.34	14	10
4	A	306	PX4	C5-N1-C4	3.86	98.85	108.98	13	5
4	A	355	PX4	C4-N1-C3	3.86	98.84	108.98	4	3
4	A	404	PX4	C7-O7-C23	3.86	127.02	117.80	7	6
4	A	416	PX4	O1-P1-O2	3.86	130.38	112.44	7	11
4	A	305	PX4	O4-P1-O2	3.85	124.21	108.94	3	4
4	A	333	PX4	O1-P1-O3	3.85	90.10	107.57	7	5
4	A	310	PX4	C7-O7-C23	3.85	127.01	117.80	9	6
4	A	318	PX4	C4-N1-C3	3.85	98.86	108.98	19	5
4	A	355	PX4	C1-C2-N1	3.85	128.19	115.82	17	7
4	A	384	PX4	O7-C23-O8	3.85	114.71	123.70	10	4
4	A	322	PX4	O1-P1-O2	3.85	130.34	112.44	7	13
4	A	336	PX4	O5-C9-C10	3.85	123.56	111.83	8	6
4	A	345	PX4	P1-O3-C1	3.84	102.96	121.26	11	16
4	A	375	PX4	C1-C2-N1	3.85	128.16	115.82	19	6
4	A	407	PX4	O7-C7-C6	3.85	122.14	108.34	7	6
4	A	367	PX4	C26-C25-C24	3.84	99.00	113.13	17	1
4	A	424	PX4	C5-N1-C4	3.84	98.88	108.98	10	6
4	A	336	PX4	C7-O7-C23	3.84	126.99	117.80	5	4
4	A	360	PX4	O1-P1-O3	3.84	90.15	107.57	16	3
4	A	366	PX4	C11-C10-C9	3.84	99.63	113.69	3	3
4	A	418	PX4	O7-C7-C8	3.84	122.11	108.34	9	6
4	A	330	PX4	C1-C2-N1	3.84	128.13	115.82	13	8
4	A	387	PX4	C5-N1-C4	3.84	98.90	108.98	17	1
4	A	398	PX4	O3-P1-O2	3.83	93.74	108.94	1	3
4	A	416	PX4	O4-P1-O2	3.83	124.13	108.94	12	5
4	A	343	PX4	O7-C23-C24	3.83	119.77	111.48	16	9
4	A	373	PX4	C5-N1-C4	3.83	98.91	108.98	13	8
4	A	328	PX4	P1-O3-C1	3.83	103.03	121.26	6	14
4	A	399	PX4	P1-O4-C6	3.83	99.40	121.35	20	16
4	A	413	PX4	O1-P1-O4	3.83	124.94	107.57	6	6
4	A	306	PX4	C5-N1-C3	3.83	98.92	108.98	1	7
4	A	331	PX4	O7-C7-C6	3.83	122.08	108.34	2	11
4	A	383	PX4	O1-P1-O2	3.83	130.26	112.44	20	10
4	A	389	PX4	C4-N1-C3	3.83	119.04	108.98	19	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	346	PX4	O7-C23-O8	3.83	114.75	123.70	13	6
4	A	338	PX4	C5-N1-C4	3.83	119.03	108.98	1	1
4	A	355	PX4	O7-C7-C6	3.83	122.08	108.34	20	9
4	A	339	PX4	O7-C7-C6	3.83	122.07	108.34	3	7
4	A	360	PX4	O3-P1-O2	3.83	93.77	108.94	16	7
4	A	363	PX4	P1-O3-C1	3.83	103.05	121.26	9	17
4	A	311	PX4	O5-C9-O6	3.82	114.07	123.63	9	6
4	A	361	PX4	O1-P1-O2	3.82	130.23	112.44	6	6
4	A	397	PX4	C20-C19-C18	3.82	95.05	114.37	9	3
4	A	314	PX4	P1-O4-C6	3.82	99.47	121.35	17	17
4	A	324	PX4	O5-C9-C10	3.82	123.48	111.83	7	4
4	A	311	PX4	O7-C23-O8	3.82	114.78	123.70	18	9
4	A	335	PX4	O5-C9-O6	3.82	114.08	123.63	14	6
4	A	346	PX4	O7-C7-C8	3.82	122.04	108.34	20	8
4	A	392	PX4	P1-O3-C1	3.82	103.09	121.26	10	15
4	A	353	PX4	O5-C9-C10	3.82	123.47	111.83	9	7
4	A	354	PX4	C11-C10-C9	3.82	99.71	113.69	12	4
4	A	346	PX4	O7-C23-C24	3.81	119.73	111.48	8	9
4	A	386	PX4	P1-O4-C6	3.81	99.49	121.35	13	15
4	A	427	PX4	O1-P1-O2	3.81	130.19	112.44	14	11
4	A	309	PX4	O1-P1-O2	3.81	130.18	112.44	3	10
4	A	357	PX4	P1-O4-C6	3.81	99.50	121.35	19	12
4	A	316	PX4	C1-C2-N1	3.81	128.06	115.82	14	6
4	A	337	PX4	O1-P1-O2	3.81	130.17	112.44	9	11
4	A	390	PX4	C26-C25-C24	3.81	99.12	113.13	1	7
4	A	397	PX4	O7-C23-C24	3.81	119.72	111.48	4	11
4	A	422	PX4	O5-C8-C7	3.81	119.38	108.40	16	12
4	A	389	PX4	C7-O7-C23	3.81	126.91	117.80	10	2
4	A	394	PX4	C4-N1-C3	3.81	98.97	108.98	12	1
4	A	345	PX4	C5-N1-C4	3.81	98.98	108.98	2	3
4	A	411	PX4	C5-N1-C4	3.80	98.98	108.98	18	5
4	A	306	PX4	O7-C23-O8	3.80	114.82	123.70	16	6
4	A	331	PX4	O7-C7-C8	3.80	121.98	108.34	17	9
4	A	393	PX4	O7-C7-C8	3.80	121.98	108.34	19	9
4	A	357	PX4	C4-N1-C2	3.80	94.80	109.91	14	4
4	A	350	PX4	O7-C7-C6	3.80	121.97	108.34	9	4
4	A	378	PX4	C7-O7-C23	3.80	108.70	117.80	7	6
4	A	356	PX4	C4-N1-C3	3.80	99.00	108.98	20	5
4	A	366	PX4	O7-C23-C24	3.80	119.69	111.48	1	4
4	A	344	PX4	O5-C9-C10	3.79	123.41	111.83	15	6
4	A	369	PX4	O4-P1-O2	3.79	123.97	108.94	7	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	394	PX4	P1-O3-C1	3.79	103.19	121.26	10	14
4	A	318	PX4	O5-C9-C10	3.79	123.40	111.83	6	9
4	A	330	PX4	P1-O4-C6	3.79	99.61	121.35	1	10
4	A	428	PX4	C1-C2-N1	3.79	128.00	115.82	19	7
4	A	313	PX4	O5-C9-O6	3.79	114.14	123.63	20	6
4	A	329	PX4	O7-C23-O8	3.79	114.84	123.70	1	7
4	A	344	PX4	O1-P1-O2	3.79	130.08	112.44	2	7
4	A	362	PX4	O1-P1-O2	3.79	130.09	112.44	15	10
4	A	310	PX4	O7-C7-C8	3.79	121.94	108.34	8	11
4	A	334	PX4	C4-N1-C3	3.79	99.02	108.98	13	2
4	A	319	PX4	C1-C2-N1	3.79	127.98	115.82	12	7
4	A	321	PX4	P1-O4-C6	3.79	99.63	121.35	17	13
4	A	425	PX4	O7-C23-O8	3.79	114.84	123.70	20	7
4	A	426	PX4	C1-C2-N1	3.79	127.98	115.82	20	7
4	A	311	PX4	O7-C7-C6	3.79	121.93	108.34	1	5
4	A	361	PX4	C4-N1-C3	3.79	99.03	108.98	2	6
4	A	390	PX4	C1-C2-N1	3.79	127.97	115.82	9	8
4	A	305	PX4	C5-N1-C3	3.78	99.04	108.98	8	3
4	A	318	PX4	O1-P1-O2	3.78	130.04	112.44	8	9
4	A	359	PX4	O5-C9-C10	3.78	123.37	111.83	14	6
4	A	316	PX4	C30-C29-C28	3.78	95.25	114.37	12	3
4	A	391	PX4	O7-C7-C8	3.78	121.91	108.34	7	6
4	A	376	PX4	O7-C7-C8	3.78	121.91	108.34	6	13
4	A	411	PX4	O5-C9-C10	3.78	123.36	111.83	1	4
4	A	309	PX4	O7-C7-C8	3.78	121.91	108.34	19	9
4	A	422	PX4	O5-C9-O6	3.78	114.17	123.63	18	8
4	A	308	PX4	P1-O3-C1	3.78	103.27	121.26	18	15
4	A	411	PX4	C1-C2-N1	3.78	127.95	115.82	7	8
4	A	341	PX4	O5-C9-C10	3.78	123.35	111.83	18	6
4	A	353	PX4	O3-P1-O2	3.78	93.97	108.94	18	3
4	A	387	PX4	C7-O7-C23	3.78	126.84	117.80	7	4
4	A	328	PX4	O5-C9-O6	3.78	114.19	123.63	7	3
4	A	380	PX4	O7-C7-C8	3.77	121.89	108.34	8	8
4	A	398	PX4	O5-C9-C10	3.78	123.35	111.83	11	5
4	A	358	PX4	O7-C7-C6	3.77	121.87	108.34	20	9
4	A	377	PX4	O7-C23-O8	3.77	114.89	123.70	13	9
4	A	381	PX4	O3-P1-O2	3.77	93.99	108.94	10	4
4	A	359	PX4	C26-C25-C24	3.77	99.28	113.13	5	3
4	A	385	PX4	C1-C2-N1	3.77	127.92	115.82	18	5
4	A	394	PX4	O1-P1-O2	3.77	129.97	112.44	1	10
4	A	422	PX4	P1-O4-C6	3.77	99.77	121.35	11	12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	427	PX4	C3-N1-C2	3.77	124.88	109.91	20	2
4	A	305	PX4	O1-P1-O2	3.76	129.95	112.44	16	11
4	A	376	PX4	C33-C32-C31	3.76	95.34	114.37	13	1
4	A	313	PX4	C4-N1-C3	3.76	99.09	108.98	19	4
4	A	308	PX4	O4-P1-O2	3.76	94.02	108.94	14	5
4	A	309	PX4	P1-O3-C1	3.76	103.36	121.26	11	13
4	A	348	PX4	O7-C23-O8	3.76	114.91	123.70	18	6
4	A	428	PX4	O1-P1-O2	3.76	129.93	112.44	1	11
4	A	423	PX4	O5-C9-O6	3.76	114.23	123.63	8	5
4	A	310	PX4	O1-P1-O2	3.75	129.91	112.44	4	14
4	A	356	PX4	O5-C9-C10	3.76	123.28	111.83	14	6
4	A	383	PX4	O3-P1-O2	3.76	94.05	108.94	11	4
4	A	414	PX4	C12-C11-C10	3.75	99.34	113.13	12	2
4	A	400	PX4	C1-C2-N1	3.75	127.86	115.82	20	7
4	A	406	PX4	O7-C7-C8	3.75	121.80	108.34	18	5
4	A	314	PX4	O4-P1-O2	3.75	123.80	108.94	14	4
4	A	407	PX4	C11-C10-C9	3.75	99.95	113.69	7	3
4	A	309	PX4	O7-C7-C6	3.75	121.79	108.34	11	6
4	A	321	PX4	O3-P1-O2	3.75	94.08	108.94	9	5
4	A	373	PX4	P1-O4-C6	3.75	99.87	121.35	9	15
4	A	428	PX4	C7-O7-C23	3.75	126.77	117.80	8	5
4	A	366	PX4	O5-C9-O6	3.75	114.25	123.63	19	2
4	A	387	PX4	O1-P1-O2	3.75	129.88	112.44	14	8
4	A	306	PX4	O3-P1-O2	3.75	94.09	108.94	5	3
4	A	336	PX4	P1-O4-C6	3.74	99.89	121.35	5	10
4	A	348	PX4	O5-C9-O6	3.74	114.26	123.63	4	4
4	A	404	PX4	C5-N1-C3	3.74	99.14	108.98	9	5
4	A	421	PX4	O6-C9-C10	3.74	109.14	123.78	11	2
4	A	315	PX4	O5-C9-C10	3.74	123.25	111.83	7	6
4	A	408	PX4	O5-C9-O6	3.74	114.27	123.63	9	9
4	A	411	PX4	O5-C9-O6	3.74	114.27	123.63	15	7
4	A	313	PX4	O7-C7-C6	3.74	121.76	108.34	19	9
4	A	319	PX4	P1-O3-C1	3.74	103.46	121.26	1	15
4	A	364	PX4	O5-C9-O6	3.74	114.27	123.63	1	5
4	A	359	PX4	O1-P1-O3	3.74	90.64	107.57	9	3
4	A	394	PX4	C1-C2-N1	3.74	127.81	115.82	12	2
4	A	351	PX4	O3-P1-O2	3.73	94.13	108.94	8	5
4	A	401	PX4	O7-C7-C8	3.73	121.74	108.34	2	11
4	A	323	PX4	O5-C9-C10	3.73	123.22	111.83	7	6
4	A	341	PX4	C4-N1-C3	3.73	99.17	108.98	16	6
4	A	347	PX4	P1-O4-C6	3.73	99.96	121.35	12	16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	346	PX4	C26-C25-C24	3.73	99.43	113.13	7	6
4	A	427	PX4	O7-C7-C8	3.73	121.72	108.34	8	10
4	A	310	PX4	C26-C25-C24	3.73	99.44	113.13	9	3
4	A	412	PX4	C4-N1-C3	3.73	99.19	108.98	10	3
4	A	422	PX4	O1-P1-O4	3.73	124.46	107.57	2	4
4	A	317	PX4	O6-C9-C10	3.72	109.22	123.78	17	2
4	A	368	PX4	C12-C11-C10	3.72	99.45	113.13	1	2
4	A	410	PX4	C26-C25-C24	3.72	126.81	113.13	14	4
4	A	393	PX4	P1-O4-C6	3.72	100.01	121.35	9	11
4	A	340	PX4	C4-N1-C3	3.72	99.20	108.98	7	6
4	A	334	PX4	C8-O5-C9	3.72	103.52	117.12	9	2
4	A	407	PX4	P1-O4-C6	3.72	100.03	121.35	11	14
4	A	361	PX4	O7-C23-O8	3.72	115.01	123.70	6	8
4	A	331	PX4	P1-O3-C1	3.72	103.57	121.26	17	16
4	A	315	PX4	C1-C2-N1	3.71	127.74	115.82	3	6
4	A	364	PX4	C4-N1-C2	3.71	124.68	109.91	16	4
4	A	320	PX4	P1-O3-C1	3.71	103.59	121.26	14	13
4	A	334	PX4	O1-P1-O2	3.71	129.71	112.44	8	10
4	A	379	PX4	O7-C7-C6	3.71	121.66	108.34	4	6
4	A	366	PX4	P1-O4-C6	3.71	100.08	121.35	7	11
4	A	403	PX4	O7-C7-C8	3.71	121.66	108.34	18	10
4	A	382	PX4	O4-P1-O2	3.71	123.63	108.94	18	3
4	A	389	PX4	C5-N1-C3	3.71	99.24	108.98	5	4
4	A	364	PX4	C5-N1-C4	3.70	99.25	108.98	12	3
4	A	405	PX4	P1-O4-C6	3.70	100.13	121.35	16	14
4	A	406	PX4	C12-C11-C10	3.70	99.52	113.13	19	2
4	A	312	PX4	O3-P1-O2	3.70	94.26	108.94	9	3
4	A	365	PX4	C4-N1-C2	3.70	95.19	109.91	5	1
4	A	347	PX4	C4-N1-C3	3.70	99.25	108.98	2	5
4	A	367	PX4	P1-O3-C1	3.70	103.64	121.26	7	15
4	A	407	PX4	C26-C25-C24	3.70	99.52	113.13	4	4
4	A	380	PX4	C5-N1-C3	3.70	118.70	108.98	9	7
4	A	412	PX4	P1-O4-C6	3.70	100.14	121.35	20	12
4	A	341	PX4	O1-P1-O2	3.70	129.66	112.44	10	13
4	A	381	PX4	O1-P1-O2	3.70	129.66	112.44	11	11
4	A	319	PX4	P1-O4-C6	3.70	100.16	121.35	8	16
4	A	339	PX4	O7-C7-C8	3.70	121.61	108.34	14	6
4	A	316	PX4	O7-C7-C8	3.70	121.61	108.34	17	10
4	A	328	PX4	P1-O4-C6	3.70	100.17	121.35	5	13
4	A	350	PX4	C14-C13-C12	3.70	95.68	114.37	11	1
4	A	354	PX4	O3-P1-O2	3.70	94.29	108.94	10	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	367	PX4	O4-P1-O2	3.69	123.58	108.94	10	2
4	A	399	PX4	O5-C8-C7	3.69	119.05	108.40	8	10
4	A	361	PX4	O5-C9-C10	3.69	123.10	111.83	1	7
4	A	408	PX4	O7-C7-C6	3.69	121.60	108.34	19	11
4	A	371	PX4	O7-C23-C24	3.69	119.47	111.48	14	9
4	A	320	PX4	O1-P1-O2	3.69	129.62	112.44	15	13
4	A	374	PX4	O7-C23-O8	3.69	115.07	123.70	16	4
4	A	386	PX4	O1-P1-O2	3.69	129.62	112.44	9	8
4	A	388	PX4	O7-C23-O8	3.69	115.07	123.70	12	5
4	A	342	PX4	O4-P1-O2	3.69	123.56	108.94	2	3
4	A	361	PX4	C5-N1-C3	3.69	99.29	108.98	16	3
4	A	398	PX4	O1-P1-O2	3.69	129.61	112.44	9	7
4	A	326	PX4	O1-P1-O3	3.69	90.85	107.57	4	1
4	A	385	PX4	O7-C7-C6	3.69	121.57	108.34	7	5
4	A	317	PX4	O7-C7-C8	3.69	121.57	108.34	16	7
4	A	374	PX4	O1-P1-O2	3.69	129.59	112.44	11	10
4	A	376	PX4	O1-P1-O3	3.69	90.86	107.57	14	2
4	A	419	PX4	O7-C7-C6	3.69	121.57	108.34	12	7
4	A	393	PX4	C5-N1-C3	3.68	99.30	108.98	17	5
4	A	317	PX4	O7-C7-C6	3.68	121.55	108.34	5	7
4	A	353	PX4	C26-C25-C24	3.68	99.60	113.13	18	4
4	A	382	PX4	O7-C7-C8	3.68	121.56	108.34	2	10
4	A	381	PX4	O5-C8-C7	3.68	119.01	108.40	20	13
4	A	365	PX4	O5-C8-C7	3.68	119.00	108.40	19	11
4	A	327	PX4	O1-P1-O2	3.68	129.54	112.44	11	17
4	A	366	PX4	O7-C7-C6	3.68	121.53	108.34	1	7
4	A	408	PX4	C1-C2-N1	3.68	127.62	115.82	2	8
4	A	377	PX4	C5-N1-C3	3.67	99.32	108.98	1	6
4	A	396	PX4	C4-N1-C3	3.67	118.63	108.98	2	5
4	A	409	PX4	O5-C9-O6	3.67	114.44	123.63	5	3
4	A	390	PX4	C7-O7-C23	3.67	126.58	117.80	4	4
4	A	419	PX4	C1-C2-N1	3.67	127.61	115.82	13	8
4	A	337	PX4	C5-N1-C4	3.67	99.34	108.98	5	2
4	A	344	PX4	C5-N1-C4	3.67	99.34	108.98	19	5
4	A	394	PX4	O7-C7-C8	3.67	121.51	108.34	3	2
4	A	347	PX4	O7-C7-C8	3.67	121.50	108.34	18	4
4	A	390	PX4	C5-N1-C3	3.67	99.34	108.98	5	3
4	A	336	PX4	O4-P1-O2	3.67	123.47	108.94	20	5
4	A	423	PX4	O7-C7-C6	3.67	121.50	108.34	13	7
4	A	343	PX4	O4-P1-O2	3.66	123.46	108.94	20	3
4	A	371	PX4	O5-C9-O6	3.66	114.46	123.63	11	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	359	PX4	O3-P1-O2	3.66	94.42	108.94	4	5
4	A	409	PX4	C4-N1-C3	3.66	99.35	108.98	19	4
4	A	360	PX4	O5-C9-O6	3.66	114.47	123.63	16	8
4	A	326	PX4	C1-C2-N1	3.66	127.57	115.82	11	5
4	A	343	PX4	O1-P1-O2	3.66	129.47	112.44	11	12
4	A	415	PX4	P1-O3-C1	3.66	103.83	121.26	12	16
4	A	348	PX4	C1-C2-N1	3.66	127.57	115.82	12	2
4	A	367	PX4	C32-C31-C30	3.66	95.87	114.37	15	5
4	A	372	PX4	O7-C7-C6	3.66	121.47	108.34	7	11
4	A	363	PX4	C18-C17-C16	3.66	95.88	114.37	7	2
4	A	364	PX4	O7-C7-C8	3.66	121.47	108.34	4	10
4	A	420	PX4	O1-P1-O2	3.66	129.47	112.44	12	10
4	A	319	PX4	O1-P1-O2	3.66	129.45	112.44	20	11
4	A	316	PX4	O3-P1-O2	3.66	94.44	108.94	18	5
4	A	372	PX4	P1-O4-C6	3.66	100.40	121.35	8	13
4	A	400	PX4	O5-C9-O6	3.65	114.49	123.63	19	7
4	A	412	PX4	O1-P1-O2	3.65	129.45	112.44	13	11
4	A	333	PX4	O5-C9-C10	3.65	122.97	111.83	6	2
4	A	417	PX4	C1-C2-N1	3.65	127.55	115.82	5	9
4	A	418	PX4	C4-N1-C3	3.65	118.57	108.98	20	4
4	A	327	PX4	O3-P1-O2	3.65	94.47	108.94	3	8
4	A	403	PX4	C5-N1-C3	3.65	99.39	108.98	8	3
4	A	412	PX4	C1-C2-N1	3.65	127.53	115.82	2	9
4	A	380	PX4	O5-C9-O6	3.65	114.50	123.63	14	4
4	A	410	PX4	C12-C11-C10	3.65	99.72	113.13	13	4
4	A	318	PX4	O5-C9-O6	3.65	114.51	123.63	5	8
4	A	306	PX4	C1-C2-N1	3.64	127.52	115.82	12	7
4	A	323	PX4	C27-C26-C25	3.64	95.95	114.37	11	1
4	A	399	PX4	O3-P1-O2	3.64	94.49	108.94	16	3
4	A	422	PX4	O7-C23-O8	3.64	115.19	123.70	18	5
4	A	377	PX4	O1-P1-O2	3.64	129.38	112.44	10	10
4	A	424	PX4	O7-C7-C6	3.64	121.41	108.34	17	6
4	A	427	PX4	O5-C9-O6	3.64	114.53	123.63	14	2
4	A	429	PX4	C7-O7-C23	3.64	109.09	117.80	1	5
4	A	356	PX4	O7-C23-C24	3.64	119.35	111.48	8	10
4	A	413	PX4	C1-C2-N1	3.64	127.49	115.82	15	5
4	A	313	PX4	O1-P1-O3	3.64	91.09	107.57	6	3
4	A	337	PX4	O5-C9-O6	3.63	114.54	123.63	17	7
4	A	357	PX4	P1-O3-C1	3.63	103.96	121.26	14	13
4	A	366	PX4	C1-C2-N1	3.63	127.48	115.82	6	6
4	A	426	PX4	O1-P1-O3	3.63	91.09	107.57	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	388	PX4	O5-C9-O6	3.63	114.54	123.63	18	3
4	A	341	PX4	O3-P1-O2	3.63	94.54	108.94	13	4
4	A	377	PX4	P1-O4-C6	3.63	100.54	121.35	12	17
4	A	307	PX4	O7-C7-C8	3.63	121.36	108.34	8	10
4	A	315	PX4	O1-P1-O2	3.63	129.33	112.44	13	12
4	A	326	PX4	C25-C24-C23	3.63	100.39	113.69	19	4
4	A	348	PX4	O7-C7-C8	3.63	121.37	108.34	3	4
4	A	396	PX4	O7-C7-C6	3.63	121.37	108.34	6	8
4	A	334	PX4	O7-C7-C8	3.63	121.36	108.34	10	7
4	A	357	PX4	O1-P1-O2	3.63	129.32	112.44	4	13
4	A	332	PX4	O7-C7-C8	3.63	121.35	108.34	20	6
4	A	346	PX4	C5-N1-C3	3.63	118.50	108.98	1	4
4	A	353	PX4	O7-C7-C6	3.63	121.35	108.34	3	10
4	A	332	PX4	C3-N1-C2	3.62	124.32	109.91	8	2
4	A	349	PX4	O7-C23-O8	3.62	115.23	123.70	10	6
4	A	335	PX4	C5-N1-C4	3.62	99.46	108.98	4	4
4	A	350	PX4	P1-O4-C6	3.62	100.60	121.35	6	9
4	A	397	PX4	C4-N1-C3	3.62	99.46	108.98	19	3
4	A	420	PX4	O3-P1-O2	3.62	94.58	108.94	16	7
4	A	344	PX4	C4-N1-C3	3.62	99.47	108.98	3	4
4	A	354	PX4	C7-O7-C23	3.62	126.46	117.80	18	6
4	A	367	PX4	O3-P1-O2	3.62	94.59	108.94	6	3
4	A	423	PX4	O7-C7-C8	3.62	121.33	108.34	17	7
4	A	431	PX4	C1-C2-N1	3.62	127.44	115.82	8	3
4	A	323	PX4	O7-C7-C8	3.62	121.31	108.34	1	5
4	A	350	PX4	O1-P1-O2	3.62	129.27	112.44	11	13
4	A	371	PX4	C1-C2-N1	3.62	127.43	115.82	20	7
4	A	431	PX4	O7-C23-O8	3.62	115.25	123.70	13	5
4	A	408	PX4	O5-C9-C10	3.62	122.86	111.83	3	8
4	A	410	PX4	P1-O4-C6	3.61	100.64	121.35	9	12
4	A	413	PX4	O1-P1-O2	3.61	129.26	112.44	3	8
4	A	309	PX4	P1-O4-C6	3.61	100.65	121.35	1	11
4	A	427	PX4	O5-C9-C10	3.61	122.85	111.83	6	1
4	A	341	PX4	O7-C7-C6	3.61	121.30	108.34	17	8
4	A	374	PX4	P1-O4-C6	3.61	100.66	121.35	6	11
4	A	391	PX4	O1-P1-O3	3.61	91.20	107.57	2	8
4	A	425	PX4	P1-O4-C6	3.61	100.66	121.35	14	16
4	A	307	PX4	O7-C7-C6	3.61	121.29	108.34	19	7
4	A	314	PX4	O3-P1-O2	3.61	94.64	108.94	16	5
4	A	366	PX4	C26-C25-C24	3.61	99.87	113.13	9	2
4	A	364	PX4	O7-C23-O8	3.61	115.27	123.70	13	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	400	PX4	P1-O4-C6	3.61	100.68	121.35	12	16
4	A	403	PX4	C11-C10-C9	3.61	100.48	113.69	3	2
4	A	426	PX4	O5-C9-O6	3.61	114.60	123.63	12	6
4	A	308	PX4	O1-P1-O2	3.61	129.22	112.44	17	13
4	A	372	PX4	C17-C16-C15	3.61	96.14	114.37	13	2
4	A	419	PX4	C12-C11-C10	3.61	99.88	113.13	1	4
4	A	308	PX4	C7-O7-C23	3.60	109.18	117.80	8	3
4	A	372	PX4	C27-C26-C25	3.60	96.17	114.37	11	2
4	A	396	PX4	P1-O4-C6	3.60	100.72	121.35	4	8
4	A	317	PX4	C11-C10-C9	3.60	100.50	113.69	14	3
4	A	307	PX4	C1-C2-N1	3.60	127.37	115.82	7	10
4	A	317	PX4	C8-O5-C9	3.60	103.97	117.12	15	2
4	A	400	PX4	C5-N1-C3	3.60	99.52	108.98	8	5
4	A	370	PX4	P1-O4-C6	3.60	100.73	121.35	19	15
4	A	388	PX4	P1-O4-C6	3.60	100.73	121.35	9	13
4	A	410	PX4	O5-C9-C10	3.60	122.80	111.83	14	3
4	A	326	PX4	C16-C15-C14	3.60	96.19	114.37	11	3
4	A	353	PX4	O7-C7-C8	3.59	121.24	108.34	4	7
4	A	384	PX4	O1-P1-O3	3.60	123.86	107.57	19	1
4	A	431	PX4	C4-N1-C3	3.60	99.53	108.98	6	7
4	A	356	PX4	C5-N1-C4	3.59	99.54	108.98	3	5
4	A	332	PX4	O1-P1-O4	3.59	123.85	107.57	13	4
4	A	351	PX4	O7-C7-C8	3.59	121.23	108.34	6	4
4	A	355	PX4	O1-P1-O2	3.59	129.16	112.44	4	9
4	A	357	PX4	C1-C2-N1	3.59	127.36	115.82	3	7
4	A	428	PX4	C12-C11-C10	3.59	99.92	113.13	1	6
4	A	430	PX4	C4-N1-C2	3.59	95.63	109.91	10	1
4	A	402	PX4	O7-C7-C8	3.59	121.23	108.34	4	5
4	A	305	PX4	C25-C24-C23	3.59	100.54	113.69	16	4
4	A	372	PX4	C5-N1-C3	3.59	99.55	108.98	20	5
4	A	390	PX4	O7-C7-C6	3.59	121.22	108.34	2	7
4	A	406	PX4	O1-P1-O2	3.59	129.13	112.44	13	12
4	A	410	PX4	O7-C7-C6	3.59	121.22	108.34	1	8
4	A	397	PX4	O5-C9-C10	3.59	122.77	111.83	9	5
4	A	328	PX4	O7-C7-C6	3.59	121.21	108.34	3	5
4	A	330	PX4	O5-C9-C10	3.59	122.77	111.83	20	7
4	A	342	PX4	O5-C9-O6	3.58	114.66	123.63	18	5
4	A	398	PX4	O7-C7-C6	3.58	121.20	108.34	8	6
4	A	422	PX4	O7-C7-C8	3.58	121.20	108.34	15	10
4	A	429	PX4	O1-P1-O2	3.58	129.11	112.44	15	15
4	A	321	PX4	O4-P1-O2	3.58	123.13	108.94	11	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	370	PX4	O7-C7-C8	3.58	121.19	108.34	5	9
4	A	428	PX4	O4-P1-O2	3.58	123.13	108.94	13	5
4	A	352	PX4	O7-C23-O8	3.58	115.34	123.70	2	8
4	A	335	PX4	O7-C7-C8	3.58	121.18	108.34	12	11
4	A	362	PX4	O3-P1-O2	3.58	94.75	108.94	15	6
4	A	382	PX4	C14-C13-C12	3.58	96.28	114.37	17	2
4	A	409	PX4	P1-O4-C6	3.58	100.84	121.35	12	14
4	A	415	PX4	C4-N1-C3	3.58	99.58	108.98	17	5
4	A	415	PX4	O5-C9-C10	3.58	122.75	111.83	7	6
4	A	370	PX4	C3-N1-C2	3.58	95.69	109.91	14	2
4	A	372	PX4	O5-C9-O6	3.58	114.68	123.63	18	9
4	A	391	PX4	P1-O4-C6	3.58	100.85	121.35	7	12
4	A	408	PX4	P1-O4-C6	3.58	100.86	121.35	9	14
4	A	391	PX4	C1-C2-N1	3.58	127.30	115.82	8	8
4	A	416	PX4	O3-P1-O2	3.58	94.76	108.94	7	10
4	A	337	PX4	O5-C9-C10	3.57	122.73	111.83	4	4
4	A	402	PX4	C25-C24-C23	3.57	100.61	113.69	4	3
4	A	391	PX4	O1-P1-O4	3.57	123.75	107.57	18	7
4	A	322	PX4	P1-O4-C6	3.57	100.89	121.35	15	13
4	A	315	PX4	C32-C31-C30	3.57	96.33	114.37	6	2
4	A	362	PX4	O7-C23-O8	3.57	115.36	123.70	20	9
4	A	430	PX4	P1-O4-C6	3.57	100.89	121.35	14	9
4	A	415	PX4	O5-C8-C7	3.57	118.69	108.40	18	10
4	A	341	PX4	O5-C9-O6	3.56	114.71	123.63	20	4
4	A	366	PX4	O1-P1-O3	3.56	91.41	107.57	2	3
4	A	307	PX4	P1-O4-C6	3.56	100.94	121.35	9	14
4	A	348	PX4	O7-C7-C6	3.56	121.12	108.34	1	11
4	A	423	PX4	O5-C9-C10	3.56	122.70	111.83	1	5
4	A	308	PX4	C1-C2-N1	3.56	127.25	115.82	17	3
4	A	352	PX4	C26-C25-C24	3.56	100.04	113.13	9	4
4	A	390	PX4	C5-N1-C4	3.56	99.62	108.98	10	6
4	A	322	PX4	O6-C9-C10	3.56	109.87	123.78	5	2
4	A	371	PX4	O3-P1-O2	3.56	94.83	108.94	8	4
4	A	331	PX4	C28-C27-C26	3.56	96.39	114.37	6	1
4	A	418	PX4	O5-C9-C10	3.56	122.68	111.83	6	9
4	A	334	PX4	P1-O4-C6	3.55	100.98	121.35	15	12
4	A	390	PX4	O7-C7-C8	3.55	121.09	108.34	19	6
4	A	313	PX4	P1-O3-C1	3.55	104.34	121.26	6	12
4	A	341	PX4	C5-N1-C3	3.55	99.64	108.98	1	4
4	A	395	PX4	O3-P1-O2	3.55	94.85	108.94	16	8
4	A	429	PX4	O7-C23-O8	3.55	115.40	123.70	2	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	372	PX4	C7-O7-C23	3.55	109.30	117.80	9	10
4	A	383	PX4	O1-P1-O3	3.55	91.47	107.57	15	3
4	A	321	PX4	C18-C17-C16	3.55	96.42	114.37	7	4
4	A	398	PX4	P1-O4-C6	3.55	101.01	121.35	20	7
4	A	347	PX4	C5-N1-C2	3.55	124.02	109.91	9	2
4	A	349	PX4	P1-O4-C6	3.55	101.03	121.35	14	15
4	A	375	PX4	C5-N1-C3	3.55	99.66	108.98	18	5
4	A	309	PX4	C14-C13-C12	3.54	96.45	114.37	9	2
4	A	322	PX4	O7-C7-C6	3.54	121.06	108.34	4	6
4	A	366	PX4	O7-C7-C8	3.54	121.06	108.34	10	9
4	A	421	PX4	O5-C9-C10	3.54	122.64	111.83	16	7
4	A	428	PX4	O7-C7-C6	3.54	121.06	108.34	11	6
4	A	325	PX4	P1-O4-C6	3.54	101.05	121.35	5	16
4	A	335	PX4	O7-C7-C6	3.54	121.05	108.34	18	4
4	A	347	PX4	O5-C9-O6	3.54	114.77	123.63	7	5
4	A	357	PX4	O7-C7-C6	3.54	121.05	108.34	2	10
4	A	380	PX4	P1-O4-C6	3.54	101.07	121.35	18	12
4	A	396	PX4	C5-N1-C3	3.54	99.68	108.98	2	3
4	A	414	PX4	P1-O4-C6	3.54	101.07	121.35	11	14
4	A	322	PX4	C5-N1-C3	3.54	99.69	108.98	16	3
4	A	332	PX4	O5-C9-C10	3.54	122.61	111.83	16	10
4	A	345	PX4	O7-C7-C6	3.54	121.03	108.34	10	6
4	A	401	PX4	O6-C9-C10	3.53	109.96	123.78	13	3
4	A	316	PX4	O1-P1-O2	3.53	128.88	112.44	20	10
4	A	401	PX4	C26-C25-C24	3.53	100.15	113.13	8	4
4	A	391	PX4	O7-C7-C6	3.53	121.02	108.34	4	8
4	A	329	PX4	C8-C7-C6	3.53	103.55	111.78	19	8
4	A	336	PX4	O7-C23-O8	3.53	115.45	123.70	11	3
4	A	373	PX4	O5-C9-O6	3.53	114.80	123.63	13	9
4	A	384	PX4	O7-C7-C8	3.53	121.00	108.34	18	6
4	A	425	PX4	C16-C15-C14	3.53	96.54	114.37	18	2
4	A	426	PX4	O7-C7-C8	3.53	121.00	108.34	5	8
4	A	326	PX4	O5-C9-O6	3.53	114.81	123.63	16	4
4	A	403	PX4	C25-C24-C23	3.53	100.78	113.69	7	2
4	A	428	PX4	C5-N1-C4	3.53	118.24	108.98	7	4
4	A	318	PX4	C1-C2-N1	3.52	127.13	115.82	13	7
4	A	339	PX4	C12-C11-C10	3.52	100.18	113.13	1	4
4	A	390	PX4	O5-C9-O6	3.52	114.81	123.63	10	6
4	A	418	PX4	P1-O3-C1	3.52	104.49	121.26	15	13
4	A	373	PX4	O1-P1-O2	3.52	128.83	112.44	9	12
4	A	375	PX4	O1-P1-O2	3.52	128.83	112.44	17	14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	385	PX4	O7-C7-C8	3.52	120.98	108.34	2	14
4	A	421	PX4	C5-N1-C3	3.52	99.72	108.98	12	4
4	A	313	PX4	C7-O7-C23	3.52	126.22	117.80	18	8
4	A	316	PX4	O7-C23-O8	3.52	115.47	123.70	9	9
4	A	335	PX4	C5-N1-C3	3.52	118.22	108.98	13	2
4	A	384	PX4	O7-C7-C6	3.52	120.97	108.34	4	8
4	A	368	PX4	O1-P1-O2	3.52	128.82	112.44	1	14
4	A	398	PX4	C1-C2-N1	3.52	127.12	115.82	19	6
4	A	419	PX4	P1-O4-C6	3.52	101.19	121.35	8	15
4	A	420	PX4	P1-O4-C6	3.52	101.18	121.35	14	15
4	A	347	PX4	O5-C9-C10	3.52	122.56	111.83	8	3
4	A	377	PX4	O7-C7-C6	3.52	120.96	108.34	4	8
4	A	389	PX4	O7-C7-C8	3.51	120.94	108.34	11	5
4	A	421	PX4	C1-C2-N1	3.51	127.09	115.82	10	6
4	A	385	PX4	P1-O4-C6	3.51	101.23	121.35	6	13
4	A	378	PX4	C12-C11-C10	3.51	100.23	113.13	11	3
4	A	333	PX4	O1-P1-O4	3.51	123.46	107.57	13	2
4	A	366	PX4	O1-P1-O2	3.51	128.76	112.44	14	8
4	A	402	PX4	C32-C31-C30	3.51	96.64	114.37	9	2
4	A	338	PX4	C4-N1-C3	3.51	99.77	108.98	19	3
4	A	345	PX4	O7-C23-O8	3.51	115.51	123.70	2	9
4	A	370	PX4	C17-C16-C15	3.51	96.65	114.37	2	2
4	A	334	PX4	C5-N1-C3	3.50	99.77	108.98	18	11
4	A	345	PX4	P1-O4-C6	3.50	101.27	121.35	18	15
4	A	351	PX4	O7-C23-O8	3.50	115.51	123.70	17	6
4	A	369	PX4	O5-C9-O6	3.50	114.86	123.63	11	3
4	A	370	PX4	C25-C24-C23	3.50	100.86	113.69	9	5
4	A	413	PX4	C7-O7-C23	3.50	126.18	117.80	5	7
4	A	413	PX4	C3-N1-C2	3.50	123.84	109.91	16	2
4	A	427	PX4	P1-O4-C6	3.50	101.28	121.35	3	15
4	A	396	PX4	C1-C2-N1	3.50	127.06	115.82	10	9
4	A	324	PX4	C4-N1-C3	3.50	99.78	108.98	16	4
4	A	336	PX4	C4-N1-C3	3.50	99.79	108.98	19	2
4	A	353	PX4	O1-P1-O2	3.50	128.71	112.44	9	9
4	A	378	PX4	C5-N1-C3	3.50	99.79	108.98	16	7
4	A	418	PX4	O5-C9-O6	3.50	114.88	123.63	10	4
4	A	362	PX4	C26-C25-C24	3.49	125.97	113.13	1	1
4	A	324	PX4	C5-N1-C2	3.49	123.80	109.91	13	6
4	A	338	PX4	O1-P1-O2	3.49	128.68	112.44	6	12
4	A	353	PX4	P1-O4-C6	3.49	101.34	121.35	17	12
4	A	321	PX4	O5-C9-O6	3.49	114.90	123.63	18	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	348	PX4	C4-N1-C3	3.49	118.14	108.98	13	6
4	A	383	PX4	O7-C7-C8	3.49	120.86	108.34	6	8
4	A	424	PX4	C16-C15-C14	3.49	96.74	114.37	15	4
4	A	336	PX4	O1-P1-O2	3.49	128.66	112.44	4	11
4	A	319	PX4	O1-P1-O4	3.48	123.36	107.57	3	4
4	A	358	PX4	P1-O4-C6	3.49	101.38	121.35	8	13
4	A	402	PX4	C4-N1-C2	3.49	123.76	109.91	3	3
4	A	359	PX4	C1-C2-N1	3.48	127.00	115.82	12	4
4	A	401	PX4	O7-C23-O8	3.48	115.56	123.70	9	4
4	A	371	PX4	O1-P1-O2	3.48	128.65	112.44	9	10
4	A	389	PX4	C28-C27-C26	3.48	96.76	114.37	17	1
4	A	307	PX4	O5-C9-O6	3.48	114.92	123.63	5	1
4	A	384	PX4	O8-C23-C24	3.48	110.16	123.78	3	1
4	A	415	PX4	C5-N1-C4	3.48	99.83	108.98	11	3
4	A	389	PX4	O3-C1-C2	3.48	126.40	109.65	3	1
4	A	351	PX4	O7-C7-C6	3.48	120.82	108.34	19	9
4	A	419	PX4	C17-C16-C15	3.48	96.78	114.37	9	3
4	A	364	PX4	P1-O4-C6	3.47	101.44	121.35	17	10
4	A	400	PX4	C25-C24-C23	3.47	100.97	113.69	15	3
4	A	397	PX4	O1-P1-O2	3.47	128.60	112.44	1	16
4	A	415	PX4	P1-O4-C6	3.47	101.45	121.35	1	14
4	A	429	PX4	O7-C7-C8	3.47	120.80	108.34	4	4
4	A	355	PX4	O5-C9-O6	3.47	114.94	123.63	13	4
4	A	308	PX4	O7-C23-O8	3.47	115.59	123.70	7	7
4	A	332	PX4	C12-C11-C10	3.47	100.38	113.13	13	1
4	A	392	PX4	O7-C23-O8	3.47	115.59	123.70	11	2
4	A	343	PX4	P1-O3-C1	3.47	104.75	121.26	10	14
4	A	344	PX4	O4-P1-O2	3.47	95.18	108.94	5	1
4	A	371	PX4	O7-C23-O8	3.47	115.59	123.70	19	6
4	A	341	PX4	P1-O4-C6	3.47	101.48	121.35	5	14
4	A	401	PX4	C5-N1-C3	3.47	99.87	108.98	11	4
4	A	334	PX4	O7-C7-C6	3.47	120.78	108.34	16	10
4	A	380	PX4	O3-P1-O2	3.46	95.21	108.94	8	2
4	A	393	PX4	O7-C23-O8	3.46	115.61	123.70	2	5
4	A	359	PX4	C11-C10-C9	3.46	101.01	113.69	6	2
4	A	359	PX4	O1-P1-O2	3.46	128.54	112.44	13	11
4	A	415	PX4	O7-C7-C6	3.46	120.76	108.34	9	6
4	A	342	PX4	O7-C23-O8	3.46	115.62	123.70	16	4
4	A	399	PX4	C1-C2-N1	3.46	126.92	115.82	20	7
4	A	340	PX4	P1-O4-C6	3.46	101.55	121.35	7	11
4	A	389	PX4	O5-C9-C10	3.46	122.37	111.83	7	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	393	PX4	C5-N1-C4	3.45	99.90	108.98	1	2
4	A	421	PX4	O7-C7-C8	3.46	120.74	108.34	19	7
4	A	315	PX4	C5-N1-C4	3.45	99.90	108.98	17	5
4	A	378	PX4	P1-O4-C6	3.45	101.56	121.35	14	15
4	A	403	PX4	C7-O7-C23	3.45	109.53	117.80	19	7
4	A	376	PX4	O1-P1-O4	3.45	123.22	107.57	7	6
4	A	348	PX4	P1-O4-C6	3.45	101.57	121.35	5	7
4	A	385	PX4	O5-C9-O6	3.45	114.99	123.63	20	6
4	A	428	PX4	O7-C7-C8	3.45	120.72	108.34	7	10
4	A	429	PX4	C5-N1-C4	3.45	99.91	108.98	16	4
4	A	384	PX4	C4-N1-C3	3.45	99.91	108.98	4	4
4	A	424	PX4	C1-C2-N1	3.45	126.90	115.82	18	4
4	A	357	PX4	O7-C7-C8	3.45	120.71	108.34	18	6
4	A	311	PX4	C8-O5-C9	3.45	104.52	117.12	4	6
4	A	403	PX4	O5-C9-O6	3.45	115.01	123.63	5	1
4	A	349	PX4	O7-C7-C6	3.44	120.70	108.34	11	5
4	A	354	PX4	O1-P1-O2	3.44	128.46	112.44	16	11
4	A	403	PX4	C5-N1-C4	3.44	99.93	108.98	6	3
4	A	417	PX4	O7-C7-C6	3.44	120.70	108.34	14	7
4	A	424	PX4	O7-C23-O8	3.44	115.66	123.70	10	5
4	A	431	PX4	C5-N1-C3	3.44	99.93	108.98	11	3
4	A	314	PX4	C11-C10-C9	3.44	101.08	113.69	6	2
4	A	367	PX4	O1-P1-O2	3.44	128.46	112.44	6	7
4	A	336	PX4	C25-C24-C23	3.44	101.09	113.69	18	2
4	A	372	PX4	O1-P1-O2	3.44	128.45	112.44	18	9
4	A	382	PX4	C18-C17-C16	3.44	96.98	114.37	1	1
4	A	409	PX4	O3-P1-O2	3.44	95.30	108.94	7	4
4	A	336	PX4	C18-C17-C16	3.44	96.98	114.37	20	3
4	A	351	PX4	C5-N1-C4	3.44	99.94	108.98	16	4
4	A	328	PX4	C1-C2-N1	3.44	126.86	115.82	8	6
4	A	350	PX4	C5-N1-C3	3.44	99.95	108.98	15	4
4	A	404	PX4	O5-C9-O6	3.44	115.03	123.63	6	5
4	A	358	PX4	O7-C23-C24	3.43	118.91	111.48	4	7
4	A	368	PX4	O5-C9-O6	3.43	115.04	123.63	3	9
4	A	320	PX4	C16-C15-C14	3.43	97.02	114.37	2	2
4	A	405	PX4	C5-N1-C4	3.43	99.97	108.98	12	5
4	A	389	PX4	O1-P1-O4	3.43	123.11	107.57	17	3
4	A	342	PX4	O3-P1-O2	3.43	95.35	108.94	17	5
4	A	345	PX4	C25-C24-C23	3.43	101.13	113.69	2	1
4	A	391	PX4	C5-N1-C3	3.43	99.97	108.98	20	3
4	A	401	PX4	P1-O4-C6	3.43	101.71	121.35	16	12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	376	PX4	C1-C2-N1	3.43	126.82	115.82	20	7
4	A	340	PX4	O3-P1-O2	3.43	95.36	108.94	4	2
4	A	410	PX4	O1-P1-O2	3.43	128.38	112.44	20	9
4	A	360	PX4	P1-O4-C6	3.43	101.72	121.35	9	13
4	A	399	PX4	C5-N1-C4	3.42	99.98	108.98	3	3
4	A	312	PX4	C26-C25-C24	3.42	100.55	113.13	14	3
4	A	407	PX4	C1-C2-N1	3.42	126.81	115.82	20	3
4	A	394	PX4	O7-C7-C6	3.42	120.62	108.34	13	6
4	A	365	PX4	O7-C7-C8	3.42	120.62	108.34	1	12
4	A	366	PX4	O4-P1-O2	3.42	122.50	108.94	2	2
4	A	409	PX4	C25-C24-C23	3.42	126.23	113.69	1	4
4	A	321	PX4	C26-C25-C24	3.42	100.56	113.13	18	5
4	A	331	PX4	O4-P1-O2	3.42	122.49	108.94	13	5
4	A	351	PX4	O5-C9-C10	3.42	122.26	111.83	20	7
4	A	384	PX4	C25-C24-C23	3.42	101.16	113.69	6	3
4	A	411	PX4	C13-C12-C11	3.42	97.08	114.37	6	4
4	A	341	PX4	O7-C7-C8	3.42	120.61	108.34	17	4
4	A	383	PX4	C13-C12-C11	3.42	97.09	114.37	10	2
4	A	384	PX4	C26-C25-C24	3.42	100.57	113.13	4	6
4	A	371	PX4	O3-C1-C2	3.42	126.09	109.65	12	3
4	A	378	PX4	O7-C7-C8	3.42	120.60	108.34	11	9
4	A	316	PX4	P1-O4-C6	3.42	101.78	121.35	2	12
4	A	386	PX4	C12-C11-C10	3.42	100.58	113.13	16	5
4	A	305	PX4	C12-C11-C10	3.41	100.58	113.13	13	3
4	A	430	PX4	O1-P1-O2	3.41	128.33	112.44	20	11
4	A	402	PX4	O1-P1-O2	3.41	128.32	112.44	20	12
4	A	336	PX4	O7-C7-C8	3.41	120.58	108.34	15	9
4	A	374	PX4	C5-N1-C3	3.41	100.02	108.98	4	6
4	A	419	PX4	O1-P1-O2	3.41	128.31	112.44	4	14
4	A	346	PX4	O5-C9-O6	3.41	115.10	123.63	13	5
4	A	379	PX4	O5-C9-O6	3.41	115.10	123.63	3	5
4	A	412	PX4	O5-C9-C10	3.41	122.23	111.83	13	5
4	A	411	PX4	O7-C23-O8	3.41	115.74	123.70	8	7
4	A	430	PX4	O1-P1-O4	3.41	92.12	107.57	17	2
4	A	375	PX4	C30-C29-C28	3.41	97.14	114.37	5	2
4	A	388	PX4	C1-C2-N1	3.41	126.76	115.82	3	4
4	A	336	PX4	C1-C2-N1	3.41	126.75	115.82	6	4
4	A	317	PX4	C4-N1-C2	3.40	123.44	109.91	14	2
4	A	365	PX4	O7-C23-O8	3.41	115.74	123.70	15	4
4	A	410	PX4	O3-P1-O2	3.41	95.44	108.94	5	5
4	A	317	PX4	C26-C25-C24	3.40	100.62	113.13	5	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	398	PX4	O5-C9-O6	3.40	115.11	123.63	8	9
4	A	358	PX4	C1-C2-N1	3.40	126.74	115.82	10	6
4	A	427	PX4	C4-N1-C3	3.40	100.04	108.98	19	5
4	A	331	PX4	C5-N1-C3	3.40	100.05	108.98	19	5
4	A	346	PX4	C25-C24-C23	3.40	101.23	113.69	12	3
4	A	369	PX4	O1-P1-O4	3.40	122.98	107.57	16	3
4	A	416	PX4	O7-C7-C6	3.40	120.54	108.34	5	8
4	A	428	PX4	P1-O4-C6	3.40	101.87	121.35	9	8
4	A	324	PX4	O1-P1-O2	3.40	128.25	112.44	11	18
4	A	324	PX4	O3-P1-O2	3.40	95.47	108.94	7	1
4	A	337	PX4	O1-P1-O4	3.40	122.97	107.57	15	1
4	A	387	PX4	C18-C17-C16	3.40	97.20	114.37	14	1
4	A	328	PX4	C29-C28-C27	3.40	97.20	114.37	10	1
4	A	380	PX4	O8-C23-C24	3.40	110.50	123.78	15	1
4	A	411	PX4	O7-C7-C6	3.40	120.53	108.34	14	10
4	A	389	PX4	O1-P1-O2	3.39	128.24	112.44	8	11
4	A	411	PX4	O4-P1-O2	3.39	95.48	108.94	2	4
4	A	420	PX4	O7-C23-O8	3.40	115.77	123.70	8	7
4	A	334	PX4	O4-P1-O2	3.39	95.49	108.94	5	3
4	A	306	PX4	C34-C33-C32	3.39	97.23	114.37	1	2
4	A	400	PX4	C4-N1-C3	3.39	100.07	108.98	12	3
4	A	401	PX4	C5-N1-C4	3.39	100.07	108.98	8	6
4	A	405	PX4	C27-C26-C25	3.39	97.24	114.37	15	5
4	A	369	PX4	C27-C26-C25	3.39	97.25	114.37	3	1
4	A	376	PX4	O5-C9-O6	3.38	115.16	123.63	9	6
4	A	388	PX4	O5-C9-C10	3.38	122.15	111.83	8	3
4	A	393	PX4	C1-C2-N1	3.38	126.69	115.82	19	6
4	A	398	PX4	C5-N1-C2	3.38	123.36	109.91	5	3
4	A	384	PX4	C28-C27-C26	3.38	97.28	114.37	5	4
4	A	410	PX4	O1-P1-O3	3.38	92.24	107.57	14	4
4	A	412	PX4	O7-C7-C6	3.38	120.47	108.34	12	7
4	A	333	PX4	C16-C15-C14	3.38	97.29	114.37	19	3
4	A	378	PX4	O7-C7-C6	3.38	120.46	108.34	14	5
4	A	405	PX4	C7-O7-C23	3.38	125.88	117.80	12	2
4	A	416	PX4	P1-O4-C6	3.38	101.99	121.35	11	14
4	A	424	PX4	O5-C9-C10	3.38	122.13	111.83	3	4
4	A	373	PX4	O4-P1-O2	3.37	122.31	108.94	1	3
4	A	329	PX4	C1-C2-N1	3.37	126.65	115.82	12	4
4	A	404	PX4	P1-O4-C6	3.37	102.03	121.35	8	13
4	A	337	PX4	O7-C7-C8	3.37	120.43	108.34	5	7
4	A	413	PX4	P1-O4-C6	3.37	102.03	121.35	11	13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	351	PX4	O5-C9-O6	3.37	115.20	123.63	8	8
4	A	358	PX4	C5-N1-C4	3.37	100.13	108.98	20	3
4	A	326	PX4	C12-C11-C10	3.37	100.75	113.13	15	1
4	A	320	PX4	O7-C7-C6	3.36	120.41	108.34	1	9
4	A	329	PX4	C5-N1-C3	3.36	100.14	108.98	9	1
4	A	366	PX4	C5-N1-C4	3.37	100.14	108.98	16	5
4	A	400	PX4	O7-C7-C8	3.37	120.42	108.34	12	6
4	A	391	PX4	C4-N1-C3	3.36	100.14	108.98	13	3
4	A	317	PX4	O7-C23-O8	3.36	115.85	123.70	1	6
4	A	333	PX4	C1-C2-N1	3.36	126.61	115.82	9	6
4	A	351	PX4	O1-P1-O4	3.36	122.80	107.57	4	2
4	A	353	PX4	O5-C9-O6	3.36	115.22	123.63	12	9
4	A	364	PX4	O3-P1-O2	3.36	95.62	108.94	14	5
4	A	397	PX4	C26-C25-C24	3.36	100.78	113.13	10	2
4	A	406	PX4	C3-N1-C2	3.36	96.56	109.91	19	2
4	A	307	PX4	O7-C23-O8	3.36	115.86	123.70	1	7
4	A	343	PX4	C4-N1-C3	3.36	100.16	108.98	1	5
4	A	375	PX4	O5-C9-C10	3.36	122.07	111.83	1	6
4	A	403	PX4	P1-O4-C6	3.35	102.13	121.35	17	13
4	A	384	PX4	O5-C9-O6	3.35	115.24	123.63	19	3
4	A	409	PX4	O7-C7-C6	3.35	120.37	108.34	8	9
4	A	389	PX4	C12-C11-C10	3.35	100.81	113.13	1	4
4	A	392	PX4	O5-C9-O6	3.35	115.24	123.63	9	3
4	A	417	PX4	P1-O4-C6	3.35	102.14	121.35	19	11
4	A	328	PX4	O5-C9-C10	3.35	122.05	111.83	17	7
4	A	349	PX4	C25-C24-C23	3.35	101.42	113.69	2	4
4	A	365	PX4	C5-N1-C3	3.35	117.77	108.98	5	7
4	A	399	PX4	O1-P1-O2	3.35	128.02	112.44	20	13
4	A	401	PX4	O1-P1-O3	3.35	92.39	107.57	9	4
4	A	384	PX4	P1-O4-C6	3.35	102.16	121.35	6	14
4	A	416	PX4	O7-C7-C8	3.35	120.36	108.34	13	5
4	A	312	PX4	O1-P1-O2	3.35	128.01	112.44	9	10
4	A	315	PX4	O5-C9-O6	3.35	132.00	123.63	19	3
4	A	353	PX4	O7-C23-O8	3.35	115.88	123.70	1	5
4	A	368	PX4	O7-C7-C8	3.35	120.35	108.34	12	6
4	A	403	PX4	O3-P1-O2	3.35	95.68	108.94	18	3
4	A	328	PX4	C14-C13-C12	3.34	97.47	114.37	19	3
4	A	339	PX4	O5-C9-C10	3.34	122.03	111.83	3	6
4	A	355	PX4	C25-C24-C23	3.34	101.44	113.69	16	1
4	A	356	PX4	C1-C2-N1	3.34	126.55	115.82	17	4
4	A	391	PX4	O3-P1-O2	3.34	95.68	108.94	17	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	392	PX4	C5-N1-C3	3.34	100.19	108.98	15	3
4	A	349	PX4	O5-C9-C10	3.34	122.02	111.83	11	5
4	A	359	PX4	O7-C7-C8	3.34	120.33	108.34	11	8
4	A	379	PX4	C5-N1-C3	3.34	100.20	108.98	16	4
4	A	387	PX4	O7-C7-C6	3.34	120.33	108.34	14	9
4	A	421	PX4	P1-O4-C6	3.34	102.20	121.35	7	15
4	A	431	PX4	O7-C7-C6	3.34	120.33	108.34	9	4
4	A	310	PX4	O4-P1-O2	3.34	122.18	108.94	18	3
4	A	344	PX4	O3-C1-C2	3.34	125.72	109.65	9	2
4	A	373	PX4	C5-N1-C3	3.34	100.20	108.98	8	7
4	A	380	PX4	O7-C7-C6	3.34	120.33	108.34	10	8
4	A	418	PX4	O7-C23-O8	3.34	115.90	123.70	5	5
4	A	309	PX4	C11-C10-C9	3.34	101.47	113.69	9	6
4	A	319	PX4	O4-P1-O2	3.34	95.71	108.94	16	4
4	A	329	PX4	O5-C9-C10	3.34	122.01	111.83	15	5
4	A	378	PX4	C4-N1-C3	3.34	100.21	108.98	7	4
4	A	392	PX4	O4-P1-O2	3.33	95.72	108.94	6	4
4	A	394	PX4	C14-C13-C12	3.34	97.51	114.37	20	1
4	A	319	PX4	C12-C11-C10	3.33	100.88	113.13	7	3
4	A	325	PX4	O1-P1-O2	3.33	127.96	112.44	5	10
4	A	350	PX4	C12-C11-C10	3.33	100.88	113.13	8	4
4	A	381	PX4	C26-C25-C24	3.33	100.87	113.13	13	4
4	A	315	PX4	O3-P1-O2	3.33	95.73	108.94	20	3
4	A	319	PX4	O7-C7-C6	3.33	120.30	108.34	13	12
4	A	430	PX4	C5-N1-C4	3.33	100.22	108.98	18	5
4	A	375	PX4	O5-C9-O6	3.33	115.29	123.63	1	6
4	A	390	PX4	O1-P1-O2	3.33	127.94	112.44	2	9
4	A	316	PX4	C8-O5-C9	3.33	104.94	117.12	20	6
4	A	322	PX4	O5-C9-C10	3.33	121.99	111.83	13	3
4	A	327	PX4	C4-N1-C3	3.33	100.23	108.98	16	2
4	A	337	PX4	O7-C7-C6	3.33	120.29	108.34	1	9
4	A	379	PX4	O3-P1-O2	3.33	95.74	108.94	18	4
4	A	343	PX4	O7-C7-C6	3.33	120.28	108.34	11	3
4	A	348	PX4	O1-P1-O2	3.33	127.93	112.44	11	8
4	A	388	PX4	O4-P1-O2	3.33	95.74	108.94	16	1
4	A	315	PX4	O7-C7-C8	3.33	120.27	108.34	8	7
4	A	418	PX4	C30-C29-C28	3.32	97.56	114.37	7	5
4	A	345	PX4	O4-P1-O2	3.32	122.10	108.94	6	3
4	A	318	PX4	C5-N1-C3	3.32	100.25	108.98	9	5
4	A	399	PX4	O1-P1-O3	3.32	92.52	107.57	12	2
4	A	376	PX4	O1-P1-O2	3.32	127.89	112.44	14	12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	358	PX4	O3-P1-O2	3.32	95.78	108.94	1	4
4	A	311	PX4	O6-C9-C10	3.32	110.81	123.78	20	3
4	A	364	PX4	O7-C7-C6	3.32	120.25	108.34	3	7
4	A	405	PX4	C11-C10-C9	3.32	101.54	113.69	12	3
4	A	397	PX4	C3-N1-C2	3.32	96.72	109.91	18	1
4	A	353	PX4	C5-N1-C3	3.32	100.27	108.98	2	3
4	A	305	PX4	C1-C2-N1	3.31	126.46	115.82	4	7
4	A	326	PX4	O1-P1-O2	3.31	127.86	112.44	13	14
4	A	333	PX4	O1-P1-O2	3.31	127.86	112.44	20	15
4	A	343	PX4	O3-C1-C2	3.31	125.60	109.65	10	4
4	A	345	PX4	C5-N1-C3	3.31	100.27	108.98	9	4
4	A	349	PX4	C4-N1-C3	3.31	100.27	108.98	20	2
4	A	425	PX4	O7-C7-C6	3.32	120.24	108.34	5	7
4	A	427	PX4	O7-C7-C6	3.32	120.24	108.34	15	7
4	A	380	PX4	O1-P1-O4	3.31	122.58	107.57	8	3
4	A	381	PX4	C5-N1-C3	3.31	100.27	108.98	4	4
4	A	426	PX4	O5-C9-C10	3.31	121.94	111.83	12	5
4	A	393	PX4	C7-O7-C23	3.31	125.72	117.80	11	5
4	A	397	PX4	P1-O4-C6	3.31	102.37	121.35	1	13
4	A	309	PX4	C25-C24-C23	3.31	101.56	113.69	11	3
4	A	322	PX4	O3-P1-O2	3.31	95.81	108.94	4	3
4	A	349	PX4	C7-O7-C23	3.31	125.72	117.80	17	11
4	A	387	PX4	C12-C11-C10	3.31	100.96	113.13	8	1
4	A	418	PX4	C11-C10-C9	3.31	101.56	113.69	6	1
4	A	431	PX4	O7-C7-C8	3.31	120.22	108.34	17	4
4	A	335	PX4	P1-O4-C6	3.31	102.38	121.35	20	17
4	A	431	PX4	O5-C9-C10	3.31	121.92	111.83	16	5
4	A	347	PX4	O1-P1-O2	3.31	127.83	112.44	2	11
4	A	309	PX4	C8-O5-C9	3.31	105.03	117.12	18	2
4	A	361	PX4	C5-N1-C4	3.30	100.30	108.98	17	3
4	A	386	PX4	C32-C31-C30	3.30	97.66	114.37	11	3
4	A	431	PX4	C11-C10-C9	3.31	101.58	113.69	7	3
4	A	335	PX4	C1-C2-N1	3.30	126.42	115.82	20	7
4	A	422	PX4	O1-P1-O3	3.30	92.61	107.57	3	1
4	A	317	PX4	C5-N1-C4	3.30	117.64	108.98	19	2
4	A	314	PX4	O7-C7-C6	3.30	120.18	108.34	19	6
4	A	363	PX4	O4-P1-O2	3.30	122.01	108.94	15	5
4	A	386	PX4	O5-C9-C10	3.30	121.89	111.83	1	7
4	A	428	PX4	O7-C23-C24	3.30	118.62	111.48	14	6
4	A	332	PX4	C5-N1-C3	3.30	100.31	108.98	4	5
4	A	343	PX4	O1-P1-O3	3.30	92.63	107.57	4	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	362	PX4	O5-C9-C10	3.30	121.89	111.83	13	9
4	A	367	PX4	C5-N1-C4	3.30	100.31	108.98	15	5
4	A	371	PX4	C5-N1-C4	3.30	100.31	108.98	13	3
4	A	400	PX4	O1-P1-O4	3.30	122.51	107.57	3	2
4	A	325	PX4	C5-N1-C3	3.29	117.63	108.98	8	3
4	A	326	PX4	O5-C9-C10	3.30	121.88	111.83	3	5
4	A	338	PX4	O3-P1-O2	3.29	95.88	108.94	16	3
4	A	345	PX4	C12-C11-C10	3.29	101.02	113.13	3	4
4	A	361	PX4	O1-P1-O4	3.29	122.50	107.57	4	2
4	A	368	PX4	O1-P1-O3	3.29	92.64	107.57	1	1
4	A	427	PX4	C29-C28-C27	3.29	97.71	114.37	4	3
4	A	403	PX4	O7-C7-C6	3.29	120.16	108.34	12	10
4	A	395	PX4	O1-P1-O2	3.29	127.77	112.44	14	14
4	A	313	PX4	O1-P1-O4	3.29	122.48	107.57	7	3
4	A	320	PX4	O5-C9-O6	3.29	115.40	123.63	17	7
4	A	356	PX4	P1-O4-C6	3.29	102.50	121.35	8	10
4	A	369	PX4	O5-C9-C10	3.29	121.87	111.83	7	3
4	A	384	PX4	C31-C30-C29	3.29	97.74	114.37	5	2
4	A	314	PX4	O1-P1-O4	3.29	122.47	107.57	8	3
4	A	349	PX4	O3-P1-O2	3.29	95.91	108.94	11	3
4	A	379	PX4	O7-C7-C8	3.29	120.14	108.34	16	8
4	A	386	PX4	O7-C7-C6	3.29	120.13	108.34	9	12
4	A	386	PX4	C26-C25-C24	3.29	101.05	113.13	19	4
4	A	414	PX4	O5-C9-O6	3.29	115.41	123.63	19	7
4	A	419	PX4	C7-O7-C23	3.29	125.66	117.80	12	6
4	A	310	PX4	O7-C7-C6	3.28	120.12	108.34	18	7
4	A	402	PX4	P1-O4-C6	3.28	102.53	121.35	11	11
4	A	376	PX4	C26-C25-C24	3.28	101.06	113.13	4	5
4	A	380	PX4	C11-C10-C9	3.28	101.67	113.69	2	3
4	A	389	PX4	O4-P1-O2	3.28	121.94	108.94	2	6
4	A	397	PX4	C1-C2-N1	3.28	126.36	115.82	10	5
4	A	425	PX4	C5-N1-C3	3.28	100.35	108.98	3	4
4	A	309	PX4	C12-C11-C10	3.28	101.07	113.13	7	3
4	A	333	PX4	C4-N1-C3	3.28	100.36	108.98	19	5
4	A	357	PX4	C5-N1-C3	3.28	100.36	108.98	7	3
4	A	338	PX4	P1-O4-C6	3.28	102.56	121.35	11	15
4	A	430	PX4	C1-C2-N1	3.28	126.35	115.82	13	6
4	A	371	PX4	C7-O7-C23	3.28	125.64	117.80	18	3
4	A	310	PX4	C1-C2-N1	3.28	126.34	115.82	15	5
4	A	312	PX4	C18-C17-C16	3.28	97.81	114.37	15	2
4	A	328	PX4	C3-N1-C2	3.28	96.89	109.91	15	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	331	PX4	C1-C2-N1	3.28	126.34	115.82	1	6
4	A	343	PX4	C29-C28-C27	3.28	97.81	114.37	3	1
4	A	423	PX4	O7-C23-O8	3.28	116.04	123.70	1	7
4	A	313	PX4	O7-C23-O8	3.27	116.05	123.70	3	5
4	A	321	PX4	O1-P1-O2	3.27	127.68	112.44	5	14
4	A	344	PX4	O7-C7-C8	3.27	120.09	108.34	19	9
4	A	367	PX4	O1-P1-O4	3.27	122.41	107.57	18	2
4	A	311	PX4	O7-C7-C8	3.27	120.08	108.34	15	11
4	A	330	PX4	C5-N1-C3	3.27	117.57	108.98	2	3
4	A	374	PX4	C1-C2-N1	3.27	126.33	115.82	16	10
4	A	377	PX4	C12-C11-C10	3.27	101.10	113.13	11	4
4	A	422	PX4	O3-C1-C2	3.27	125.40	109.65	8	1
4	A	311	PX4	O1-P1-O2	3.27	127.66	112.44	16	7
4	A	333	PX4	P1-O4-C6	3.27	102.61	121.35	17	12
4	A	363	PX4	O5-C9-C10	3.27	121.81	111.83	15	4
4	A	371	PX4	C3-N1-C2	3.27	122.91	109.91	9	3
4	A	320	PX4	C26-C25-C24	3.27	101.12	113.13	16	4
4	A	337	PX4	C5-N1-C3	3.27	100.39	108.98	10	2
4	A	379	PX4	O1-P1-O2	3.27	127.65	112.44	3	12
4	A	386	PX4	O1-P1-O3	3.27	92.75	107.57	2	1
4	A	322	PX4	C19-C18-C17	3.27	97.85	114.37	20	3
4	A	323	PX4	O1-P1-O2	3.27	127.65	112.44	19	11
4	A	390	PX4	C4-N1-C2	3.27	122.90	109.91	10	2
4	A	429	PX4	O7-C7-C6	3.27	120.07	108.34	6	3
4	A	405	PX4	C5-N1-C3	3.27	100.39	108.98	2	4
4	A	407	PX4	C4-N1-C3	3.27	100.40	108.98	11	3
4	A	352	PX4	C4-N1-C3	3.26	100.40	108.98	14	3
4	A	373	PX4	O7-C7-C6	3.26	120.05	108.34	18	2
4	A	366	PX4	O8-C23-C24	3.26	111.02	123.78	17	1
4	A	377	PX4	C26-C25-C24	3.26	101.14	113.13	7	3
4	A	405	PX4	O7-C23-O8	3.26	116.08	123.70	16	6
4	A	334	PX4	C20-C19-C18	3.26	97.90	114.37	20	1
4	A	340	PX4	C1-C2-N1	3.26	126.28	115.82	10	8
4	A	359	PX4	C3-N1-C2	3.26	122.87	109.91	11	2
4	A	346	PX4	C16-C15-C14	3.26	97.90	114.37	19	1
4	A	347	PX4	C5-N1-C3	3.26	100.42	108.98	16	3
4	A	352	PX4	C32-C31-C30	3.26	97.89	114.37	4	3
4	A	371	PX4	C4-N1-C3	3.26	117.54	108.98	14	6
4	A	360	PX4	C5-N1-C4	3.26	100.42	108.98	6	1
4	A	394	PX4	O7-C23-O8	3.26	116.09	123.70	10	6
4	A	426	PX4	C5-N1-C4	3.26	100.42	108.98	6	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	368	PX4	C26-C25-C24	3.26	101.16	113.13	7	5
4	A	426	PX4	C25-C24-C23	3.26	101.77	113.69	2	2
4	A	319	PX4	C4-N1-C3	3.25	100.43	108.98	6	4
4	A	360	PX4	O1-P1-O4	3.25	122.32	107.57	16	3
4	A	403	PX4	C1-C2-N1	3.25	126.26	115.82	8	1
4	A	430	PX4	O7-C23-O8	3.25	116.10	123.70	3	3
4	A	314	PX4	C1-C2-N1	3.25	126.25	115.82	20	9
4	A	340	PX4	C15-C14-C13	3.25	97.93	114.37	5	3
4	A	401	PX4	C27-C26-C25	3.25	97.94	114.37	14	3
4	A	307	PX4	C11-C10-C9	3.25	101.79	113.69	1	1
4	A	319	PX4	O5-C9-O6	3.25	115.50	123.63	7	4
4	A	326	PX4	C4-N1-C2	3.25	96.99	109.91	20	2
4	A	306	PX4	O4-P1-O2	3.25	121.81	108.94	9	3
4	A	331	PX4	P1-O4-C6	3.25	102.75	121.35	20	12
4	A	369	PX4	C1-C2-N1	3.25	126.25	115.82	1	6
4	A	357	PX4	C4-N1-C3	3.25	100.45	108.98	5	4
4	A	327	PX4	O1-P1-O3	3.24	92.86	107.57	19	2
4	A	310	PX4	O1-P1-O4	3.24	122.27	107.57	10	3
4	A	317	PX4	O5-C9-C10	3.24	121.72	111.83	9	7
4	A	349	PX4	C5-N1-C4	3.24	117.49	108.98	4	5
4	A	378	PX4	O5-C9-O6	3.24	115.52	123.63	14	8
4	A	388	PX4	O1-P1-O2	3.24	127.52	112.44	8	14
4	A	308	PX4	C12-C11-C10	3.24	101.23	113.13	8	4
4	A	318	PX4	O7-C23-O8	3.24	116.13	123.70	3	5
4	A	320	PX4	P1-O4-C6	3.24	102.79	121.35	17	11
4	A	345	PX4	O5-C9-O6	3.24	115.53	123.63	19	5
4	A	373	PX4	O3-P1-O2	3.24	96.10	108.94	13	4
4	A	423	PX4	P1-O4-C6	3.24	102.78	121.35	19	13
4	A	365	PX4	O4-P1-O2	3.24	121.77	108.94	13	2
4	A	383	PX4	O4-P1-O2	3.24	96.11	108.94	1	2
4	A	426	PX4	C12-C11-C10	3.24	101.23	113.13	14	7
4	A	309	PX4	O7-C23-O8	3.24	116.14	123.70	8	3
4	A	417	PX4	C12-C11-C10	3.24	101.23	113.13	5	4
4	A	332	PX4	P1-O4-C6	3.23	102.81	121.35	6	9
4	A	376	PX4	O7-C7-C6	3.23	119.95	108.34	7	9
4	A	385	PX4	O1-P1-O2	3.23	127.49	112.44	6	10
4	A	410	PX4	C25-C24-C23	3.23	101.84	113.69	13	2
4	A	395	PX4	C1-C2-N1	3.24	126.21	115.82	6	6
4	A	328	PX4	O7-C23-C24	3.23	118.47	111.48	3	7
4	A	406	PX4	P1-O4-C6	3.23	102.83	121.35	18	9
4	A	384	PX4	C3-N1-C2	3.23	122.76	109.91	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	397	PX4	O7-C7-C6	3.23	119.94	108.34	15	7
4	A	355	PX4	O5-C9-C10	3.23	121.69	111.83	13	5
4	A	409	PX4	O7-C23-O8	3.23	116.15	123.70	17	9
4	A	415	PX4	O1-P1-O2	3.23	127.47	112.44	2	8
4	A	342	PX4	O1-P1-O4	3.23	122.20	107.57	9	2
4	A	323	PX4	P1-O3-C1	3.23	105.89	121.26	5	14
4	A	413	PX4	C34-C33-C32	3.23	98.05	114.37	1	4
4	A	422	PX4	O3-P1-O2	3.23	96.14	108.94	5	5
4	A	352	PX4	O1-P1-O2	3.23	127.46	112.44	11	10
4	A	413	PX4	C22-C21-C20	3.23	91.57	113.36	12	1
4	A	396	PX4	O1-P1-O2	3.23	127.46	112.44	12	10
4	A	366	PX4	C4-N1-C3	3.22	100.51	108.98	2	4
4	A	363	PX4	O3-P1-O2	3.22	96.16	108.94	15	4
4	A	381	PX4	O1-P1-O3	3.22	92.96	107.57	17	4
4	A	423	PX4	O1-P1-O4	3.22	122.18	107.57	10	4
4	A	335	PX4	O3-P1-O2	3.22	96.17	108.94	18	5
4	A	357	PX4	C7-O7-C23	3.22	125.51	117.80	7	3
4	A	400	PX4	C31-C30-C29	3.22	98.08	114.37	1	3
4	A	345	PX4	O5-C9-C10	3.22	121.65	111.83	13	3
4	A	400	PX4	O1-P1-O2	3.22	127.42	112.44	7	8
4	A	372	PX4	O5-C9-C10	3.22	121.65	111.83	13	8
4	A	417	PX4	C7-O7-C23	3.22	125.50	117.80	1	5
4	A	402	PX4	C19-C18-C17	3.22	98.10	114.37	4	2
4	A	427	PX4	O7-C23-O8	3.22	116.18	123.70	5	8
4	A	347	PX4	C30-C29-C28	3.22	98.10	114.37	10	1
4	A	417	PX4	C30-C29-C28	3.22	98.10	114.37	20	4
4	A	429	PX4	O5-C9-C10	3.22	121.65	111.83	1	6
4	A	366	PX4	O3-P1-O2	3.22	96.18	108.94	2	1
4	A	400	PX4	C33-C32-C31	3.22	98.11	114.37	6	1
4	A	369	PX4	O7-C7-C8	3.22	119.89	108.34	15	10
4	A	380	PX4	C30-C29-C28	3.22	98.11	114.37	2	1
4	A	406	PX4	C29-C28-C27	3.21	98.12	114.37	11	2
4	A	406	PX4	O7-C7-C6	3.22	119.88	108.34	12	7
4	A	344	PX4	O5-C9-O6	3.21	115.59	123.63	15	5
4	A	351	PX4	O4-P1-O2	3.21	121.66	108.94	19	5
4	A	402	PX4	O7-C23-O8	3.21	116.19	123.70	7	5
4	A	394	PX4	C13-C12-C11	3.21	98.13	114.37	17	4
4	A	317	PX4	O3-P1-O2	3.21	96.21	108.94	20	2
4	A	402	PX4	O3-P1-O2	3.21	96.21	108.94	15	5
4	A	321	PX4	O7-C7-C8	3.21	119.86	108.34	19	9
4	A	334	PX4	C1-C2-N1	3.21	126.12	115.82	17	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	401	PX4	O5-C9-C10	3.21	121.62	111.83	19	8
4	A	308	PX4	O3-P1-O2	3.21	96.23	108.94	18	4
4	A	336	PX4	C8-O5-C9	3.21	128.84	117.12	12	1
4	A	400	PX4	O7-C7-C6	3.20	119.84	108.34	12	11
4	A	371	PX4	C5-N1-C3	3.20	100.56	108.98	12	3
4	A	384	PX4	C27-C26-C25	3.20	98.18	114.37	20	1
4	A	428	PX4	O5-C9-C10	3.20	121.60	111.83	9	2
4	A	337	PX4	C7-O7-C23	3.20	110.13	117.80	11	5
4	A	348	PX4	C5-N1-C2	3.20	122.64	109.91	17	2
4	A	393	PX4	C14-C13-C12	3.20	98.18	114.37	10	1
4	A	318	PX4	O7-C7-C8	3.20	119.83	108.34	10	9
4	A	338	PX4	C5-N1-C3	3.20	100.57	108.98	7	5
4	A	340	PX4	C19-C18-C17	3.20	98.19	114.37	13	1
4	A	342	PX4	O7-C7-C6	3.20	119.82	108.34	1	8
4	A	399	PX4	C12-C11-C10	3.20	101.37	113.13	10	5
4	A	420	PX4	C29-C28-C27	3.20	98.19	114.37	4	2
4	A	394	PX4	C31-C30-C29	3.20	98.20	114.37	8	3
4	A	333	PX4	C18-C17-C16	3.20	98.21	114.37	7	2
4	A	409	PX4	C1-C2-N1	3.20	126.08	115.82	11	6
4	A	413	PX4	O5-C9-O6	3.20	115.63	123.63	8	4
4	A	422	PX4	C19-C18-C17	3.20	98.21	114.37	16	1
4	A	305	PX4	O7-C7-C8	3.20	119.81	108.34	6	4
4	A	326	PX4	C17-C16-C15	3.19	98.22	114.37	5	1
4	A	375	PX4	O7-C23-O8	3.19	116.24	123.70	5	5
4	A	380	PX4	C4-N1-C3	3.19	100.59	108.98	10	5
4	A	387	PX4	C4-N1-C3	3.19	117.36	108.98	17	4
4	A	366	PX4	O7-C23-O8	3.19	116.24	123.70	1	5
4	A	415	PX4	C1-C2-N1	3.19	126.07	115.82	11	4
4	A	416	PX4	C19-C18-C17	3.19	98.24	114.37	13	4
4	A	425	PX4	O5-C9-O6	3.19	115.64	123.63	15	4
4	A	326	PX4	C29-C28-C27	3.19	98.24	114.37	18	3
4	A	351	PX4	C15-C14-C13	3.19	98.24	114.37	6	3
4	A	385	PX4	C4-N1-C3	3.19	117.36	108.98	3	8
4	A	371	PX4	O1-P1-O4	3.19	122.02	107.57	16	3
4	A	393	PX4	O1-P1-O4	3.19	122.03	107.57	20	2
4	A	375	PX4	C4-N1-C3	3.19	100.60	108.98	19	4
4	A	378	PX4	C1-C2-N1	3.19	126.05	115.82	14	2
4	A	426	PX4	O1-P1-O2	3.19	127.28	112.44	2	15
4	A	306	PX4	P1-O4-C6	3.19	103.09	121.35	13	12
4	A	335	PX4	O1-P1-O2	3.19	127.27	112.44	10	10
4	A	345	PX4	C8-O5-C9	3.19	105.47	117.12	4	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	349	PX4	C5-N1-C2	3.19	122.57	109.91	1	3
4	A	401	PX4	C8-O5-C9	3.19	105.47	117.12	2	2
4	A	385	PX4	O1-P1-O4	3.19	93.12	107.57	10	2
4	A	386	PX4	C11-C10-C9	3.19	102.02	113.69	9	3
4	A	309	PX4	C7-O7-C23	3.18	125.42	117.80	10	5
4	A	312	PX4	C1-C2-N1	3.18	126.04	115.82	19	11
4	A	380	PX4	C29-C28-C27	3.18	98.28	114.37	11	1
4	A	320	PX4	O1-P1-O3	3.18	93.15	107.57	19	3
4	A	416	PX4	C5-N1-C4	3.18	100.62	108.98	17	4
4	A	385	PX4	O4-P1-O2	3.18	96.33	108.94	19	3
4	A	327	PX4	C26-C25-C24	3.18	124.81	113.13	16	2
4	A	401	PX4	O7-C7-C6	3.18	119.75	108.34	7	6
4	A	379	PX4	C1-C2-N1	3.18	126.03	115.82	18	3
4	A	411	PX4	C5-N1-C3	3.18	100.62	108.98	14	7
4	A	340	PX4	O1-P1-O2	3.18	127.23	112.44	3	9
4	A	327	PX4	C25-C24-C23	3.18	102.05	113.69	19	2
4	A	335	PX4	O4-P1-O2	3.18	121.53	108.94	6	1
4	A	338	PX4	C3-N1-C2	3.18	97.28	109.91	13	2
4	A	310	PX4	O5-C9-C10	3.17	121.51	111.83	17	5
4	A	342	PX4	O7-C7-C8	3.18	119.73	108.34	8	5
4	A	398	PX4	C5-N1-C4	3.18	100.63	108.98	5	5
4	A	365	PX4	C12-C11-C10	3.17	101.47	113.13	12	2
4	A	377	PX4	C7-O7-C23	3.17	125.39	117.80	17	8
4	A	424	PX4	C11-C10-C9	3.17	102.06	113.69	8	2
4	A	329	PX4	O1-P1-O3	3.17	93.19	107.57	14	8
4	A	326	PX4	O4-P1-O2	3.17	121.50	108.94	19	2
4	A	403	PX4	C4-N1-C3	3.17	100.65	108.98	17	3
4	A	328	PX4	O1-P1-O4	3.17	121.94	107.57	19	4
4	A	356	PX4	O3-P1-O2	3.17	96.37	108.94	3	6
4	A	359	PX4	P1-O4-C6	3.17	103.19	121.35	6	9
4	A	393	PX4	O5-C9-O6	3.17	115.70	123.63	9	8
4	A	347	PX4	C5-N1-C4	3.17	117.30	108.98	17	6
4	A	356	PX4	C12-C11-C10	3.17	101.48	113.13	1	1
4	A	411	PX4	O1-P1-O2	3.17	127.18	112.44	5	11
4	A	418	PX4	C5-N1-C4	3.17	100.65	108.98	5	2
4	A	327	PX4	O5-C9-C10	3.17	121.49	111.83	5	6
4	A	387	PX4	P1-O4-C6	3.17	103.21	121.35	5	11
4	A	388	PX4	C4-N1-C2	3.17	97.32	109.91	10	5
4	A	318	PX4	O7-C7-C6	3.16	119.70	108.34	18	9
4	A	350	PX4	C27-C26-C25	3.16	98.37	114.37	15	3
4	A	377	PX4	C25-C24-C23	3.17	102.10	113.69	5	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	340	PX4	C25-C24-C23	3.16	125.28	113.69	16	4
4	A	348	PX4	C5-N1-C4	3.16	117.28	108.98	18	7
4	A	364	PX4	C12-C11-C10	3.16	101.51	113.13	4	6
4	A	375	PX4	P1-O4-C6	3.16	103.23	121.35	1	12
4	A	380	PX4	O7-C23-O8	3.16	116.31	123.70	10	7
4	A	424	PX4	O1-P1-O4	3.16	121.90	107.57	2	2
4	A	430	PX4	C25-C24-C23	3.16	102.10	113.69	13	3
4	A	343	PX4	O3-P1-O2	3.16	96.40	108.94	7	7
4	A	348	PX4	C5-N1-C3	3.16	100.67	108.98	17	6
4	A	353	PX4	O4-P1-O2	3.16	121.46	108.94	11	4
4	A	370	PX4	O1-P1-O2	3.16	127.15	112.44	5	12
4	A	317	PX4	O1-P1-O3	3.16	93.25	107.57	13	3
4	A	305	PX4	C5-N1-C4	3.16	117.27	108.98	17	5
4	A	310	PX4	O5-C9-O6	3.16	115.73	123.63	13	4
4	A	331	PX4	O1-P1-O4	3.16	121.89	107.57	12	4
4	A	323	PX4	C7-O7-C23	3.16	125.35	117.80	7	3
4	A	332	PX4	O7-C7-C6	3.16	119.67	108.34	1	6
4	A	336	PX4	C4-N1-C2	3.16	122.46	109.91	9	2
4	A	370	PX4	C5-N1-C3	3.16	100.69	108.98	7	3
4	A	345	PX4	O3-P1-O2	3.15	96.44	108.94	12	3
4	A	381	PX4	O3-C1-C2	3.15	124.83	109.65	17	3
4	A	407	PX4	O3-P1-O2	3.15	96.44	108.94	16	3
4	A	394	PX4	C16-C15-C14	3.15	98.43	114.37	19	1
4	A	342	PX4	O5-C9-C10	3.15	121.44	111.83	2	7
4	A	349	PX4	O1-P1-O2	3.15	127.09	112.44	11	11
4	A	365	PX4	O1-P1-O2	3.15	127.09	112.44	9	6
4	A	371	PX4	C12-C11-C10	3.15	101.56	113.13	4	2
4	A	305	PX4	C30-C29-C28	3.15	98.46	114.37	3	3
4	A	412	PX4	C15-C14-C13	3.15	98.46	114.37	19	2
4	A	363	PX4	C1-C2-N1	3.14	125.92	115.82	10	6
4	A	375	PX4	C17-C16-C15	3.14	98.47	114.37	19	2
4	A	426	PX4	O4-P1-O2	3.14	121.40	108.94	4	3
4	A	381	PX4	C12-C11-C10	3.14	101.58	113.13	5	4
4	A	324	PX4	C8-O5-C9	3.14	105.63	117.12	4	3
4	A	414	PX4	O3-P1-O2	3.14	96.49	108.94	12	2
4	A	416	PX4	C5-N1-C2	3.14	97.43	109.91	15	1
4	A	310	PX4	C12-C11-C10	3.14	101.60	113.13	15	3
4	A	335	PX4	C4-N1-C2	3.14	97.43	109.91	13	2
4	A	365	PX4	O5-C9-O6	3.14	115.78	123.63	11	1
4	A	403	PX4	O6-C9-C10	3.14	111.52	123.78	7	3
4	A	408	PX4	O7-C23-C24	3.14	118.27	111.48	2	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	322	PX4	O1-P1-O4	3.14	121.78	107.57	3	1
4	A	313	PX4	O1-P1-O2	3.13	127.02	112.44	7	12
4	A	343	PX4	C11-C10-C9	3.13	102.21	113.69	2	2
4	A	345	PX4	C11-C10-C9	3.13	102.22	113.69	7	4
4	A	348	PX4	O5-C9-C10	3.13	121.39	111.83	4	6
4	A	358	PX4	O1-P1-O2	3.13	127.02	112.44	10	12
4	A	365	PX4	C4-N1-C3	3.13	100.75	108.98	12	7
4	A	404	PX4	O7-C7-C8	3.13	119.58	108.34	19	5
4	A	305	PX4	O1-P1-O4	3.13	121.76	107.57	17	3
4	A	369	PX4	C16-C15-C14	3.13	98.54	114.37	9	3
4	A	342	PX4	C12-C11-C10	3.13	101.63	113.13	15	2
4	A	372	PX4	C29-C28-C27	3.13	98.55	114.37	13	2
4	A	327	PX4	P1-O4-C6	3.13	103.43	121.35	7	9
4	A	350	PX4	C7-O7-C23	3.13	125.28	117.80	6	5
4	A	369	PX4	O1-P1-O2	3.13	127.00	112.44	1	12
4	A	369	PX4	C4-N1-C3	3.13	100.76	108.98	15	3
4	A	380	PX4	C15-C14-C13	3.13	98.56	114.37	13	3
4	A	334	PX4	C5-N1-C4	3.13	100.76	108.98	13	7
4	A	373	PX4	O5-C9-C10	3.13	121.37	111.83	3	7
4	A	401	PX4	C28-C27-C26	3.12	98.57	114.37	15	2
4	A	386	PX4	C14-C13-C12	3.13	98.57	114.37	6	2
4	A	424	PX4	O5-C9-O6	3.13	115.81	123.63	3	4
4	A	336	PX4	C30-C29-C28	3.12	98.58	114.37	17	1
4	A	345	PX4	C4-N1-C3	3.12	100.77	108.98	12	7
4	A	351	PX4	O1-P1-O2	3.12	126.98	112.44	8	13
4	A	419	PX4	C25-C24-C23	3.12	102.24	113.69	16	4
4	A	350	PX4	C1-C2-N1	3.12	125.84	115.82	16	6
4	A	326	PX4	C7-O7-C23	3.12	110.33	117.80	15	8
4	A	352	PX4	C30-C29-C28	3.12	98.59	114.37	19	2
4	A	359	PX4	C14-C13-C12	3.12	98.59	114.37	11	2
4	A	401	PX4	O1-P1-O4	3.12	121.71	107.57	10	4
4	A	340	PX4	C8-O5-C9	3.12	105.72	117.12	13	1
4	A	360	PX4	C12-C11-C10	3.12	101.67	113.13	12	3
4	A	371	PX4	O7-C7-C8	3.12	119.54	108.34	6	10
4	A	321	PX4	C8-O5-C9	3.12	105.73	117.12	6	2
4	A	336	PX4	O7-C7-C6	3.12	119.53	108.34	9	4
4	A	339	PX4	O1-P1-O2	3.12	126.95	112.44	12	14
4	A	372	PX4	C3-N1-C2	3.12	122.30	109.91	8	4
4	A	374	PX4	O7-C7-C6	3.12	119.53	108.34	17	7
4	A	411	PX4	C8-O5-C9	3.12	105.72	117.12	17	3
4	A	351	PX4	C14-C13-C12	3.12	98.61	114.37	11	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	401	PX4	C17-C16-C15	3.12	98.62	114.37	3	3
4	A	406	PX4	C5-N1-C4	3.12	100.79	108.98	6	3
4	A	416	PX4	C1-C2-N1	3.12	125.82	115.82	7	7
4	A	421	PX4	C4-N1-C2	3.12	97.52	109.91	18	4
4	A	323	PX4	P1-O4-C6	3.12	103.50	121.35	5	9
4	A	410	PX4	C5-N1-C4	3.12	100.79	108.98	20	3
4	A	431	PX4	C12-C11-C10	3.11	101.68	113.13	4	2
4	A	346	PX4	C13-C12-C11	3.11	98.63	114.37	11	2
4	A	362	PX4	C18-C17-C16	3.11	98.63	114.37	12	1
4	A	324	PX4	C26-C25-C24	3.11	101.69	113.13	14	5
4	A	334	PX4	C11-C10-C9	3.11	102.29	113.69	8	3
4	A	356	PX4	O5-C9-O6	3.11	115.84	123.63	17	4
4	A	376	PX4	C31-C30-C29	3.11	98.63	114.37	11	3
4	A	381	PX4	C17-C16-C15	3.11	98.63	114.37	3	3
4	A	331	PX4	O1-P1-O2	3.11	126.92	112.44	19	6
4	A	369	PX4	O7-C7-C6	3.11	119.50	108.34	20	2
4	A	330	PX4	C25-C24-C23	3.11	102.31	113.69	18	3
4	A	370	PX4	O1-P1-O4	3.11	121.65	107.57	20	6
4	A	391	PX4	O4-P1-O2	3.11	121.25	108.94	15	7
4	A	306	PX4	O1-P1-O4	3.10	121.64	107.57	7	3
4	A	419	PX4	O3-C1-C2	3.11	124.59	109.65	11	4
4	A	423	PX4	C11-C10-C9	3.10	125.07	113.69	17	2
4	A	335	PX4	O1-P1-O3	3.10	93.51	107.57	10	4
4	A	402	PX4	C11-C10-C9	3.10	102.33	113.69	13	3
4	A	317	PX4	O1-P1-O2	3.10	126.87	112.44	19	11
4	A	367	PX4	C4-N1-C3	3.10	100.83	108.98	16	7
4	A	399	PX4	O7-C7-C6	3.10	119.47	108.34	9	8
4	A	404	PX4	C25-C24-C23	3.10	102.33	113.69	1	3
4	A	364	PX4	O1-P1-O3	3.10	93.52	107.57	1	2
4	A	402	PX4	C31-C30-C29	3.10	98.70	114.37	13	2
4	A	363	PX4	C15-C14-C13	3.10	98.72	114.37	12	2
4	A	403	PX4	C12-C11-C10	3.10	101.75	113.13	9	1
4	A	320	PX4	O5-C9-C10	3.09	121.27	111.83	9	4
4	A	330	PX4	O1-P1-O2	3.09	126.84	112.44	7	9
4	A	378	PX4	O3-P1-O2	3.09	96.67	108.94	10	4
4	A	381	PX4	O7-C23-O8	3.09	116.47	123.70	9	6
4	A	391	PX4	O5-C9-C10	3.09	121.27	111.83	13	4
4	A	421	PX4	C12-C11-C10	3.09	124.50	113.13	12	4
4	A	306	PX4	O1-P1-O2	3.09	126.83	112.44	15	13
4	A	336	PX4	O5-C9-O6	3.09	115.89	123.63	20	8
4	A	342	PX4	O8-C23-C24	3.09	111.69	123.78	2	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	359	PX4	O7-C7-C6	3.09	119.44	108.34	3	6
4	A	380	PX4	C26-C25-C24	3.09	101.76	113.13	3	3
4	A	400	PX4	C34-C33-C32	3.09	98.74	114.37	8	2
4	A	319	PX4	O3-C1-C2	3.09	124.52	109.65	16	3
4	A	322	PX4	C11-C10-C9	3.09	102.37	113.69	2	3
4	A	404	PX4	C4-N1-C3	3.09	100.86	108.98	16	2
4	A	422	PX4	C1-C2-N1	3.09	125.74	115.82	2	7
4	A	314	PX4	C26-C25-C24	3.09	101.78	113.13	12	2
4	A	322	PX4	C29-C28-C27	3.09	98.75	114.37	8	3
4	A	384	PX4	O1-P1-O4	3.09	121.57	107.57	20	3
4	A	362	PX4	O7-C7-C8	3.09	119.42	108.34	19	5
4	A	393	PX4	C33-C32-C31	3.09	98.76	114.37	19	1
4	A	414	PX4	C11-C10-C9	3.09	102.38	113.69	13	2
4	A	323	PX4	C26-C25-C24	3.08	101.80	113.13	15	2
4	A	340	PX4	C5-N1-C4	3.08	100.87	108.98	9	3
4	A	368	PX4	O4-P1-O2	3.08	121.16	108.94	8	4
4	A	329	PX4	O5-C9-O6	3.08	115.92	123.63	14	5
4	A	384	PX4	C12-C11-C10	3.08	101.81	113.13	5	4
4	A	399	PX4	O5-C9-O6	3.08	131.33	123.63	6	4
4	A	347	PX4	C31-C30-C29	3.08	98.82	114.37	15	1
4	A	362	PX4	O8-C23-C24	3.08	111.75	123.78	7	2
4	A	414	PX4	O5-C9-C10	3.08	121.22	111.83	17	4
4	A	427	PX4	O3-C1-C2	3.08	124.45	109.65	17	2
4	A	404	PX4	C28-C27-C26	3.07	98.83	114.37	11	2
4	A	422	PX4	O7-C7-C6	3.08	119.38	108.34	13	6
4	A	337	PX4	C5-N1-C2	3.07	122.13	109.91	6	2
4	A	320	PX4	C7-O7-C23	3.07	110.44	117.80	6	3
4	A	333	PX4	C8-O5-C9	3.07	105.89	117.12	2	2
4	A	360	PX4	C30-C29-C28	3.07	98.85	114.37	3	2
4	A	383	PX4	O5-C9-O6	3.07	115.95	123.63	11	6
4	A	421	PX4	O3-P1-O2	3.07	96.76	108.94	19	3
4	A	429	PX4	C18-C17-C16	3.07	98.84	114.37	20	1
4	A	360	PX4	C5-N1-C3	3.07	100.91	108.98	14	3
4	A	402	PX4	C30-C29-C28	3.07	98.86	114.37	4	1
4	A	419	PX4	C5-N1-C4	3.07	100.92	108.98	3	4
4	A	379	PX4	O5-C9-C10	3.07	121.19	111.83	8	6
4	A	383	PX4	C4-N1-C3	3.07	100.92	108.98	7	4
4	A	318	PX4	C25-C24-C23	3.06	102.47	113.69	14	2
4	A	323	PX4	C19-C18-C17	3.06	98.88	114.37	10	1
4	A	324	PX4	O5-C9-O6	3.06	115.97	123.63	7	4
4	A	362	PX4	C5-N1-C3	3.06	100.93	108.98	7	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	310	PX4	C27-C26-C25	3.06	98.90	114.37	20	3
4	A	310	PX4	C5-N1-C2	3.06	97.74	109.91	20	1
4	A	320	PX4	C5-N1-C4	3.06	117.02	108.98	11	5
4	A	401	PX4	O1-P1-O2	3.06	126.69	112.44	7	11
4	A	365	PX4	C5-N1-C2	3.06	122.07	109.91	20	1
4	A	377	PX4	O5-C9-C10	3.06	121.17	111.83	1	3
4	A	415	PX4	O3-P1-O2	3.06	96.81	108.94	6	8
4	A	406	PX4	C11-C10-C9	3.06	102.49	113.69	3	2
4	A	424	PX4	C4-N1-C3	3.06	100.95	108.98	6	7
4	A	386	PX4	O5-C9-O6	3.05	115.99	123.63	10	5
4	A	421	PX4	C31-C30-C29	3.05	98.93	114.37	12	2
4	A	405	PX4	O3-P1-O2	3.05	96.84	108.94	19	5
4	A	408	PX4	O6-C9-C10	3.05	111.85	123.78	3	2
4	A	386	PX4	C5-N1-C4	3.05	100.96	108.98	19	2
4	A	416	PX4	C34-C33-C32	3.05	98.94	114.37	2	1
4	A	321	PX4	C1-C2-N1	3.05	125.61	115.82	19	7
4	A	336	PX4	C5-N1-C4	3.05	100.97	108.98	18	5
4	A	395	PX4	C13-C12-C11	3.05	98.95	114.37	20	2
4	A	372	PX4	C34-C33-C32	3.05	98.96	114.37	12	4
4	A	410	PX4	C13-C12-C11	3.05	98.97	114.37	18	1
4	A	336	PX4	C33-C32-C31	3.05	98.97	114.37	6	2
4	A	328	PX4	C5-N1-C4	3.04	100.98	108.98	18	6
4	A	343	PX4	C26-C25-C24	3.04	101.94	113.13	19	5
4	A	397	PX4	O4-P1-O2	3.05	96.86	108.94	16	2
4	A	311	PX4	C5-N1-C4	3.04	100.98	108.98	14	3
4	A	360	PX4	O4-P1-O2	3.04	121.00	108.94	13	3
4	A	392	PX4	C4-N1-C3	3.04	100.98	108.98	11	8
4	A	427	PX4	C17-C16-C15	3.04	98.98	114.37	1	3
4	A	410	PX4	C14-C13-C12	3.04	98.99	114.37	18	3
4	A	428	PX4	C26-C25-C24	3.04	124.31	113.13	18	4
4	A	335	PX4	C25-C24-C23	3.04	124.84	113.69	2	3
4	A	335	PX4	C26-C25-C24	3.04	101.95	113.13	13	4
4	A	328	PX4	C27-C26-C25	3.04	99.00	114.37	18	2
4	A	344	PX4	C18-C17-C16	3.04	99.00	114.37	4	1
4	A	368	PX4	C5-N1-C3	3.04	100.99	108.98	8	6
4	A	405	PX4	O5-C9-O6	3.04	116.03	123.63	17	2
4	A	425	PX4	O3-P1-O2	3.04	96.89	108.94	15	4
4	A	310	PX4	C5-N1-C4	3.04	116.96	108.98	13	6
4	A	335	PX4	C11-C10-C9	3.04	102.56	113.69	3	4
4	A	312	PX4	C30-C29-C28	3.04	99.02	114.37	13	4
4	A	325	PX4	C27-C26-C25	3.04	99.02	114.37	10	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	348	PX4	C3-N1-C2	3.04	121.98	109.91	4	3
4	A	393	PX4	O5-C9-C10	3.04	121.10	111.83	9	2
4	A	361	PX4	C4-N1-C2	3.04	121.98	109.91	1	3
4	A	423	PX4	C8-O5-C9	3.04	106.02	117.12	5	2
4	A	315	PX4	C31-C30-C29	3.03	99.03	114.37	8	3
4	A	332	PX4	C25-C24-C23	3.03	124.81	113.69	15	1
4	A	374	PX4	O1-P1-O4	3.03	121.32	107.57	7	2
4	A	395	PX4	O5-C9-C10	3.03	121.09	111.83	11	7
4	A	322	PX4	O3-C1-C2	3.03	124.24	109.65	7	4
4	A	346	PX4	C12-C11-C10	3.03	101.99	113.13	7	2
4	A	352	PX4	C11-C10-C9	3.03	102.59	113.69	9	1
4	A	387	PX4	O3-C1-C2	3.03	124.24	109.65	15	3
4	A	350	PX4	C28-C27-C26	3.03	99.06	114.37	1	1
4	A	342	PX4	C31-C30-C29	3.03	99.06	114.37	11	1
4	A	388	PX4	C11-C10-C9	3.03	102.60	113.69	16	3
4	A	371	PX4	O1-P1-O3	3.03	93.85	107.57	16	1
4	A	373	PX4	O1-P1-O4	3.03	121.29	107.57	20	3
4	A	396	PX4	C26-C25-C24	3.03	102.00	113.13	14	2
4	A	423	PX4	C31-C30-C29	3.03	99.07	114.37	12	1
4	A	309	PX4	O3-P1-O2	3.03	96.94	108.94	12	6
4	A	329	PX4	C26-C25-C24	3.03	102.01	113.13	20	1
4	A	347	PX4	C8-O5-C9	3.02	106.06	117.12	3	2
4	A	404	PX4	O1-P1-O2	3.02	126.52	112.44	15	12
4	A	382	PX4	C3-N1-C2	3.02	121.93	109.91	14	1
4	A	308	PX4	C33-C32-C31	3.02	99.09	114.37	4	2
4	A	306	PX4	C15-C14-C13	3.02	99.11	114.37	17	4
4	A	357	PX4	O5-C9-O6	3.02	116.07	123.63	19	4
4	A	332	PX4	C1-C2-N1	3.02	125.51	115.82	20	3
4	A	343	PX4	C12-C11-C10	3.02	102.03	113.13	3	3
4	A	396	PX4	C7-O7-C23	3.02	125.02	117.80	12	4
4	A	321	PX4	C5-N1-C4	3.02	116.90	108.98	19	4
4	A	346	PX4	C4-N1-C2	3.02	121.90	109.91	12	3
4	A	358	PX4	O7-C23-O8	3.02	116.65	123.70	18	5
4	A	329	PX4	O7-C7-C6	3.02	119.16	108.34	2	8
4	A	337	PX4	P1-O4-C6	3.02	104.07	121.35	11	11
4	A	371	PX4	O8-C23-C24	3.02	111.98	123.78	12	1
4	A	407	PX4	O5-C9-O6	3.01	116.09	123.63	7	3
4	A	431	PX4	C14-C13-C12	3.02	99.13	114.37	8	2
4	A	374	PX4	O5-C9-C10	3.01	121.02	111.83	13	6
4	A	326	PX4	C28-C27-C26	3.01	99.14	114.37	8	3
4	A	363	PX4	O7-C7-C6	3.01	119.15	108.34	20	10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	405	PX4	O1-P1-O2	3.01	126.45	112.44	4	9
4	A	385	PX4	C18-C17-C16	3.01	99.14	114.37	1	1
4	A	409	PX4	O7-C7-C8	3.01	119.15	108.34	17	8
4	A	362	PX4	C5-N1-C4	3.01	101.07	108.98	15	4
4	A	397	PX4	C5-N1-C2	3.01	121.87	109.91	7	2
4	A	341	PX4	C12-C11-C10	3.01	102.08	113.13	20	2
4	A	365	PX4	C11-C10-C9	3.01	102.67	113.69	13	2
4	A	371	PX4	C33-C32-C31	3.01	99.16	114.37	1	3
4	A	351	PX4	C25-C24-C23	3.01	102.68	113.69	10	1
4	A	325	PX4	O3-P1-O2	3.00	97.03	108.94	19	2
4	A	347	PX4	O7-C23-O8	3.00	116.68	123.70	17	4
4	A	362	PX4	O5-C9-O6	3.00	116.11	123.63	5	7
4	A	364	PX4	C4-N1-C3	3.00	101.09	108.98	4	3
4	A	366	PX4	C14-C13-C12	3.00	99.19	114.37	8	1
4	A	306	PX4	C11-C10-C9	3.00	124.69	113.69	7	2
4	A	323	PX4	C11-C10-C9	3.00	102.70	113.69	5	3
4	A	379	PX4	O4-P1-O2	3.00	120.83	108.94	5	2
4	A	326	PX4	C8-O5-C9	3.00	106.16	117.12	17	3
4	A	334	PX4	O5-C9-C10	3.00	120.98	111.83	6	8
4	A	337	PX4	C27-C26-C25	3.00	99.20	114.37	18	4
4	A	404	PX4	O7-C7-C6	3.00	119.11	108.34	17	6
4	A	422	PX4	C5-N1-C4	3.00	116.86	108.98	5	4
4	A	378	PX4	O1-P1-O2	3.00	126.40	112.44	1	9
4	A	314	PX4	O5-C9-O6	3.00	116.13	123.63	7	8
4	A	334	PX4	C33-C32-C31	3.00	99.22	114.37	11	3
4	A	343	PX4	O7-C7-C8	3.00	119.10	108.34	20	10
4	A	395	PX4	C16-C15-C14	3.00	99.22	114.37	17	3
4	A	422	PX4	C30-C29-C28	3.00	99.22	114.37	19	1
4	A	307	PX4	C3-N1-C2	3.00	98.00	109.91	18	2
4	A	370	PX4	C18-C17-C16	2.99	99.23	114.37	14	4
4	A	404	PX4	C18-C17-C16	3.00	99.22	114.37	12	1
4	A	377	PX4	O1-P1-O3	2.99	93.99	107.57	5	2
4	A	406	PX4	O3-P1-O2	2.99	97.07	108.94	1	4
4	A	417	PX4	O5-C9-C10	3.00	120.97	111.83	1	4
4	A	337	PX4	C1-C2-N1	2.99	125.43	115.82	3	4
4	A	353	PX4	C12-C11-C10	2.99	102.13	113.13	17	4
4	A	381	PX4	O5-C9-O6	2.99	116.14	123.63	14	5
4	A	316	PX4	C16-C15-C14	2.99	99.25	114.37	7	2
4	A	328	PX4	C11-C10-C9	2.99	102.74	113.69	16	4
4	A	376	PX4	C12-C11-C10	2.99	102.15	113.13	15	2
4	A	416	PX4	O5-C9-C10	2.99	120.95	111.83	13	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	430	PX4	C28-C27-C26	2.99	99.26	114.37	19	1
4	A	323	PX4	O3-C1-C2	2.99	124.02	109.65	8	2
4	A	379	PX4	C11-C10-C9	2.99	102.75	113.69	4	2
4	A	385	PX4	C27-C26-C25	2.99	99.27	114.37	19	2
4	A	372	PX4	C1-C2-N1	2.99	125.40	115.82	12	5
4	A	386	PX4	C1-C2-N1	2.99	125.40	115.82	18	4
4	A	316	PX4	C33-C32-C31	2.98	99.29	114.37	5	3
4	A	332	PX4	C34-C33-C32	2.98	99.29	114.37	12	3
4	A	366	PX4	C5-N1-C2	2.98	121.77	109.91	7	4
4	A	399	PX4	O7-C7-C8	2.98	119.05	108.34	2	4
4	A	405	PX4	C20-C19-C18	2.98	99.29	114.37	18	1
4	A	322	PX4	C13-C12-C11	2.98	99.30	114.37	2	3
4	A	370	PX4	O3-C1-C2	2.98	124.00	109.65	3	4
4	A	388	PX4	C8-O5-C9	2.98	106.22	117.12	12	3
4	A	412	PX4	O1-P1-O3	2.98	94.06	107.57	2	3
4	A	395	PX4	O5-C9-O6	2.98	116.17	123.63	18	4
4	A	307	PX4	C19-C18-C17	2.98	99.30	114.37	15	1
4	A	415	PX4	O1-P1-O4	2.98	121.08	107.57	5	5
4	A	308	PX4	O5-C9-O6	2.98	116.17	123.63	13	5
4	A	339	PX4	O3-P1-O2	2.98	97.13	108.94	4	2
4	A	331	PX4	C5-N1-C4	2.98	101.15	108.98	4	5
4	A	359	PX4	C5-N1-C4	2.98	101.15	108.98	18	3
4	A	395	PX4	O7-C7-C8	2.98	119.03	108.34	10	5
4	A	316	PX4	O4-P1-O2	2.98	120.73	108.94	3	4
4	A	322	PX4	C20-C19-C18	2.98	99.32	114.37	20	3
4	A	421	PX4	C28-C27-C26	2.97	99.33	114.37	20	3
4	A	309	PX4	C5-N1-C3	2.97	101.17	108.98	14	2
4	A	373	PX4	C16-C15-C14	2.97	99.34	114.37	13	2
4	A	392	PX4	C12-C11-C10	2.97	102.20	113.13	14	3
4	A	430	PX4	C26-C25-C24	2.97	124.05	113.13	1	1
4	A	339	PX4	C11-C10-C9	2.97	102.80	113.69	18	1
4	A	329	PX4	O4-P1-O2	2.97	120.71	108.94	19	5
4	A	343	PX4	C1-C2-N1	2.97	125.36	115.82	19	5
4	A	401	PX4	C11-C10-C9	2.97	102.81	113.69	19	2
4	A	404	PX4	O3-P1-O2	2.97	97.16	108.94	15	3
4	A	384	PX4	C30-C29-C28	2.97	99.35	114.37	6	4
4	A	402	PX4	O3-C1-C2	2.97	123.93	109.65	15	3
4	A	374	PX4	C12-C11-C10	2.97	102.22	113.13	1	5
4	A	392	PX4	C27-C26-C25	2.97	99.36	114.37	10	3
4	A	308	PX4	C14-C13-C12	2.97	99.37	114.37	17	1
4	A	392	PX4	C1-C2-N1	2.97	125.35	115.82	10	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	341	PX4	C15-C14-C13	2.97	99.37	114.37	4	3
4	A	412	PX4	O4-P1-O2	2.97	120.70	108.94	20	3
4	A	374	PX4	C34-C33-C32	2.97	99.37	114.37	12	1
4	A	379	PX4	P1-O4-C6	2.97	104.35	121.35	19	12
4	A	379	PX4	C19-C18-C17	2.97	99.37	114.37	19	1
4	A	407	PX4	C17-C16-C15	2.97	99.37	114.37	9	1
4	A	416	PX4	O1-P1-O3	2.97	94.12	107.57	3	2
4	A	417	PX4	C27-C26-C25	2.97	99.37	114.37	7	5
4	A	315	PX4	O1-P1-O3	2.97	94.13	107.57	16	3
4	A	361	PX4	C11-C10-C9	2.97	102.83	113.69	15	4
4	A	391	PX4	O3-C1-C2	2.97	123.92	109.65	6	1
4	A	417	PX4	O4-P1-O2	2.97	120.69	108.94	17	1
4	A	336	PX4	C5-N1-C2	2.96	98.13	109.91	9	2
4	A	354	PX4	C14-C13-C12	2.96	99.39	114.37	14	3
4	A	359	PX4	C5-N1-C3	2.96	101.19	108.98	6	7
4	A	402	PX4	O5-C9-C10	2.96	120.87	111.83	11	5
4	A	386	PX4	C4-N1-C2	2.96	121.69	109.91	14	2
4	A	412	PX4	O7-C23-O8	2.96	116.78	123.70	10	9
4	A	346	PX4	C20-C19-C18	2.96	99.40	114.37	12	1
4	A	379	PX4	C29-C28-C27	2.96	99.40	114.37	4	1
4	A	407	PX4	O5-C9-C10	2.96	120.87	111.83	18	5
4	A	383	PX4	C5-N1-C4	2.96	101.20	108.98	11	6
4	A	397	PX4	O1-P1-O4	2.96	121.00	107.57	2	3
4	A	417	PX4	C5-N1-C4	2.96	101.19	108.98	12	5
4	A	317	PX4	C14-C13-C12	2.96	99.40	114.37	1	1
4	A	425	PX4	C29-C28-C27	2.96	99.40	114.37	19	3
4	A	321	PX4	O1-P1-O3	2.96	120.97	107.57	14	2
4	A	361	PX4	C1-C2-N1	2.96	125.31	115.82	20	5
4	A	371	PX4	C30-C29-C28	2.96	99.42	114.37	2	4
4	A	411	PX4	O1-P1-O3	2.96	94.17	107.57	6	2
4	A	394	PX4	C5-N1-C4	2.96	116.74	108.98	18	8
4	A	414	PX4	O7-C7-C6	2.96	118.95	108.34	5	9
4	A	382	PX4	C5-N1-C4	2.96	101.21	108.98	5	6
4	A	428	PX4	C5-N1-C3	2.96	116.74	108.98	12	8
4	A	379	PX4	C17-C16-C15	2.95	99.43	114.37	16	4
4	A	407	PX4	C30-C29-C28	2.95	99.44	114.37	11	2
4	A	421	PX4	C34-C33-C32	2.95	99.43	114.37	3	1
4	A	424	PX4	O1-P1-O2	2.95	126.19	112.44	6	10
4	A	339	PX4	C4-N1-C3	2.95	101.22	108.98	19	5
4	A	387	PX4	C25-C24-C23	2.95	102.87	113.69	11	3
4	A	408	PX4	C4-N1-C3	2.95	116.73	108.98	15	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	419	PX4	C5-N1-C3	2.95	101.22	108.98	7	4
4	A	308	PX4	C4-N1-C2	2.95	98.18	109.91	18	2
4	A	365	PX4	C1-C2-N1	2.95	125.29	115.82	12	7
4	A	422	PX4	C12-C11-C10	2.95	102.29	113.13	19	5
4	A	314	PX4	C30-C29-C28	2.95	99.47	114.37	17	4
4	A	356	PX4	C26-C25-C24	2.95	123.96	113.13	6	2
4	A	363	PX4	C4-N1-C2	2.95	98.20	109.91	9	3
4	A	365	PX4	O5-C9-C10	2.95	120.82	111.83	14	4
4	A	378	PX4	C16-C15-C14	2.95	99.48	114.37	8	2
4	A	413	PX4	C12-C11-C10	2.95	102.30	113.13	11	3
4	A	431	PX4	C30-C29-C28	2.95	99.48	114.37	11	1
4	A	336	PX4	C5-N1-C3	2.94	101.24	108.98	2	2
4	A	350	PX4	C8-O5-C9	2.94	106.36	117.12	13	1
4	A	416	PX4	C5-N1-C3	2.94	116.71	108.98	18	3
4	A	428	PX4	C15-C14-C13	2.94	99.48	114.37	9	2
4	A	316	PX4	O5-C9-O6	2.94	130.99	123.63	8	8
4	A	326	PX4	C3-N1-C2	2.94	98.21	109.91	10	2
4	A	346	PX4	C14-C13-C12	2.94	99.49	114.37	15	2
4	A	395	PX4	O1-P1-O4	2.94	120.91	107.57	4	4
4	A	361	PX4	C33-C32-C31	2.94	99.51	114.37	5	1
4	A	386	PX4	C8-O5-C9	2.94	106.37	117.12	2	5
4	A	410	PX4	C1-C2-N1	2.94	125.26	115.82	18	8
4	A	405	PX4	C26-C25-C24	2.94	102.33	113.13	14	4
4	A	383	PX4	C1-C2-N1	2.94	125.26	115.82	3	5
4	A	394	PX4	C5-N1-C3	2.94	116.70	108.98	13	6
4	A	319	PX4	O7-C23-O8	2.94	116.84	123.70	8	6
4	A	341	PX4	O6-C9-C10	2.94	112.30	123.78	18	1
4	A	364	PX4	C3-N1-C2	2.94	98.23	109.91	16	2
4	A	406	PX4	O4-P1-O2	2.94	120.58	108.94	8	3
4	A	419	PX4	C5-N1-C2	2.94	121.59	109.91	9	2
4	A	320	PX4	C8-O5-C9	2.94	127.85	117.12	13	1
4	A	365	PX4	C8-O5-C9	2.94	127.85	117.12	15	2
4	A	371	PX4	C11-C10-C9	2.94	102.94	113.69	8	1
4	A	406	PX4	C33-C32-C31	2.94	99.53	114.37	20	2
4	A	324	PX4	O6-C9-C10	2.94	112.30	123.78	11	1
4	A	366	PX4	O3-C1-C2	2.93	123.77	109.65	15	3
4	A	373	PX4	C30-C29-C28	2.93	99.53	114.37	3	3
4	A	429	PX4	C4-N1-C3	2.94	101.27	108.98	15	2
4	A	417	PX4	C4-N1-C2	2.93	121.57	109.91	12	3
4	A	383	PX4	O1-P1-O4	2.93	120.86	107.57	15	4
4	A	410	PX4	C27-C26-C25	2.93	99.55	114.37	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	416	PX4	C25-C24-C23	2.93	102.95	113.69	1	1
4	A	417	PX4	O1-P1-O2	2.93	126.08	112.44	14	13
4	A	339	PX4	C5-N1-C3	2.93	116.67	108.98	4	4
4	A	325	PX4	O4-P1-O2	2.93	120.53	108.94	8	3
4	A	328	PX4	O3-P1-O2	2.93	97.33	108.94	10	4
4	A	430	PX4	C3-N1-C2	2.93	121.55	109.91	6	3
4	A	335	PX4	C32-C31-C30	2.93	99.58	114.37	11	2
4	A	353	PX4	O1-P1-O3	2.93	94.30	107.57	6	3
4	A	421	PX4	C14-C13-C12	2.93	99.57	114.37	4	2
4	A	337	PX4	C12-C11-C10	2.92	102.38	113.13	6	1
4	A	368	PX4	O3-P1-O2	2.93	97.34	108.94	19	6
4	A	329	PX4	C4-N1-C3	2.92	101.30	108.98	3	4
4	A	412	PX4	C5-N1-C4	2.92	116.66	108.98	12	4
4	A	425	PX4	C11-C10-C9	2.93	102.98	113.69	1	2
4	A	345	PX4	O1-P1-O2	2.92	126.05	112.44	2	8
4	A	356	PX4	C31-C30-C29	2.92	99.59	114.37	6	3
4	A	430	PX4	C11-C10-C9	2.92	102.98	113.69	15	3
4	A	419	PX4	O5-C9-C10	2.92	120.75	111.83	18	5
4	A	420	PX4	O5-C9-O6	2.92	116.31	123.63	7	3
4	A	377	PX4	C28-C27-C26	2.92	99.60	114.37	6	1
4	A	419	PX4	C29-C28-C27	2.92	99.60	114.37	10	2
4	A	427	PX4	C25-C24-C23	2.92	124.41	113.69	6	1
4	A	334	PX4	C5-N1-C2	2.92	121.52	109.91	18	1
4	A	372	PX4	C5-N1-C4	2.92	116.65	108.98	15	5
4	A	393	PX4	O4-P1-O2	2.92	97.36	108.94	7	2
4	A	415	PX4	O6-C9-C10	2.92	112.36	123.78	7	3
4	A	431	PX4	O1-P1-O3	2.92	94.33	107.57	20	3
4	A	312	PX4	C4-N1-C3	2.92	101.31	108.98	13	3
4	A	342	PX4	C1-C2-N1	2.92	125.19	115.82	6	4
4	A	353	PX4	O6-C9-C10	2.92	112.36	123.78	6	1
4	A	417	PX4	O3-C1-C2	2.92	123.70	109.65	4	2
4	A	331	PX4	C26-C25-C24	2.92	102.41	113.13	18	2
4	A	345	PX4	C15-C14-C13	2.92	99.62	114.37	1	3
4	A	406	PX4	C1-C2-N1	2.92	125.19	115.82	10	7
4	A	343	PX4	C20-C19-C18	2.92	99.62	114.37	7	3
4	A	381	PX4	O5-C9-C10	2.92	120.73	111.83	9	6
4	A	362	PX4	O4-P1-O2	2.92	120.49	108.94	3	2
4	A	412	PX4	C14-C13-C12	2.92	99.62	114.37	4	4
4	A	413	PX4	O7-C7-C6	2.92	118.81	108.34	20	9
4	A	418	PX4	C32-C31-C30	2.92	99.63	114.37	11	1
4	A	333	PX4	C3-N1-C2	2.92	121.50	109.91	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	388	PX4	O8-C23-C24	2.91	112.38	123.78	6	2
4	A	430	PX4	O5-C9-C10	2.91	120.72	111.83	15	4
4	A	312	PX4	O5-C9-O6	2.91	116.34	123.63	6	9
4	A	330	PX4	C29-C28-C27	2.91	99.64	114.37	6	1
4	A	357	PX4	C29-C28-C27	2.91	99.65	114.37	8	1
4	A	361	PX4	C28-C27-C26	2.91	99.65	114.37	9	1
4	A	307	PX4	C5-N1-C3	2.91	101.33	108.98	5	3
4	A	321	PX4	C5-N1-C3	2.91	101.34	108.98	12	4
4	A	363	PX4	C3-N1-C2	2.91	121.47	109.91	17	4
4	A	410	PX4	C4-N1-C3	2.91	101.33	108.98	5	4
4	A	382	PX4	C30-C29-C28	2.91	99.67	114.37	6	2
4	A	420	PX4	C17-C16-C15	2.91	99.66	114.37	11	2
4	A	317	PX4	C1-C2-N1	2.91	125.15	115.82	3	7
4	A	400	PX4	C16-C15-C14	2.91	99.67	114.37	19	2
4	A	333	PX4	O3-C1-C2	2.91	123.63	109.65	2	2
4	A	335	PX4	O5-C9-C10	2.91	120.70	111.83	19	7
4	A	402	PX4	O4-P1-O2	2.91	97.41	108.94	7	4
4	A	367	PX4	C33-C32-C31	2.91	99.68	114.37	11	2
4	A	405	PX4	O7-C7-C6	2.91	118.77	108.34	16	6
4	A	394	PX4	C20-C19-C18	2.90	99.68	114.37	17	1
4	A	368	PX4	O5-C9-C10	2.90	120.69	111.83	9	9
4	A	415	PX4	C28-C27-C26	2.90	99.69	114.37	2	2
4	A	336	PX4	O6-C9-C10	2.90	112.43	123.78	2	2
4	A	346	PX4	C5-N1-C4	2.90	101.36	108.98	7	5
4	A	325	PX4	C15-C14-C13	2.90	99.71	114.37	7	2
4	A	337	PX4	C25-C24-C23	2.90	103.07	113.69	17	3
4	A	338	PX4	C1-C2-N1	2.90	125.13	115.82	1	3
4	A	341	PX4	C1-C2-N1	2.90	125.13	115.82	17	3
4	A	341	PX4	C26-C25-C24	2.90	102.47	113.13	5	1
4	A	390	PX4	C20-C19-C18	2.90	99.71	114.37	2	2
4	A	418	PX4	C31-C30-C29	2.90	99.71	114.37	18	1
4	A	425	PX4	C19-C18-C17	2.90	99.71	114.37	14	1
4	A	313	PX4	C26-C25-C24	2.90	102.48	113.13	20	3
4	A	331	PX4	O1-P1-O3	2.90	94.43	107.57	17	4
4	A	338	PX4	C11-C10-C9	2.90	103.08	113.69	19	3
4	A	344	PX4	C20-C19-C18	2.90	99.72	114.37	1	2
4	A	344	PX4	C4-N1-C2	2.90	98.40	109.91	5	1
4	A	355	PX4	C34-C33-C32	2.90	99.72	114.37	5	4
4	A	360	PX4	C8-O5-C9	2.90	106.53	117.12	9	5
4	A	401	PX4	O5-C9-O6	2.90	116.38	123.63	15	4
4	A	407	PX4	C34-C33-C32	2.90	99.72	114.37	18	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	396	PX4	O4-P1-O2	2.90	120.42	108.94	15	1
4	A	323	PX4	C20-C19-C18	2.90	99.73	114.37	13	4
4	A	389	PX4	C8-O5-C9	2.90	106.53	117.12	17	2
4	A	348	PX4	C16-C15-C14	2.90	99.73	114.37	3	2
4	A	416	PX4	C12-C11-C10	2.90	102.49	113.13	15	3
4	A	359	PX4	O4-P1-O2	2.89	120.41	108.94	9	4
4	A	341	PX4	C30-C29-C28	2.89	99.75	114.37	6	2
4	A	345	PX4	C26-C25-C24	2.89	102.50	113.13	7	4
4	A	387	PX4	C20-C19-C18	2.89	99.74	114.37	5	1
4	A	362	PX4	C3-N1-C2	2.89	121.41	109.91	14	4
4	A	369	PX4	C12-C11-C10	2.89	102.50	113.13	16	3
4	A	420	PX4	C26-C25-C24	2.89	102.50	113.13	6	4
4	A	323	PX4	O5-C9-O6	2.89	116.40	123.63	7	5
4	A	308	PX4	C30-C29-C28	2.89	99.77	114.37	1	2
4	A	306	PX4	C14-C13-C12	2.89	99.78	114.37	17	1
4	A	313	PX4	C5-N1-C3	2.89	101.39	108.98	11	6
4	A	314	PX4	C18-C17-C16	2.89	99.77	114.37	14	2
4	A	324	PX4	C4-N1-C2	2.89	121.38	109.91	4	2
4	A	403	PX4	O5-C9-C10	2.89	120.64	111.83	3	3
4	A	370	PX4	C4-N1-C2	2.88	121.38	109.91	1	3
4	A	346	PX4	O4-P1-O2	2.88	120.36	108.94	12	3
4	A	371	PX4	O4-P1-O2	2.88	120.36	108.94	4	3
4	A	411	PX4	C5-N1-C2	2.88	121.37	109.91	18	2
4	A	346	PX4	O5-C9-C10	2.88	120.62	111.83	18	3
4	A	392	PX4	O8-C23-C24	2.88	112.52	123.78	6	2
4	A	421	PX4	O1-P1-O2	2.88	125.84	112.44	13	10
4	A	307	PX4	C4-N1-C3	2.88	101.42	108.98	15	3
4	A	347	PX4	C26-C25-C24	2.88	102.56	113.13	4	2
4	A	348	PX4	C8-O5-C9	2.88	106.60	117.12	20	2
4	A	387	PX4	O5-C9-C10	2.88	120.61	111.83	7	5
4	A	374	PX4	C31-C30-C29	2.88	99.83	114.37	20	3
4	A	383	PX4	C26-C25-C24	2.88	102.56	113.13	15	4
4	A	393	PX4	C28-C27-C26	2.88	99.83	114.37	6	1
4	A	397	PX4	C13-C12-C11	2.88	99.83	114.37	13	3
4	A	341	PX4	O1-P1-O4	2.88	120.60	107.57	13	3
4	A	363	PX4	C5-N1-C3	2.88	116.53	108.98	9	3
4	A	402	PX4	C12-C11-C10	2.87	102.57	113.13	2	3
4	A	383	PX4	C32-C31-C30	2.87	99.84	114.37	18	1
4	A	312	PX4	O7-C7-C6	2.87	118.64	108.34	15	5
4	A	411	PX4	O3-C1-C2	2.87	123.47	109.65	9	1
4	A	359	PX4	C20-C19-C18	2.87	99.86	114.37	1	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	362	PX4	C1-C2-N1	2.87	125.03	115.82	15	3
4	A	374	PX4	C16-C15-C14	2.87	99.86	114.37	19	3
4	A	388	PX4	C7-O7-C23	2.87	124.67	117.80	10	8
4	A	313	PX4	C12-C11-C10	2.87	102.59	113.13	18	4
4	A	308	PX4	C32-C31-C30	2.87	128.87	114.37	12	3
4	A	322	PX4	C5-N1-C4	2.87	101.44	108.98	10	4
4	A	392	PX4	O5-C9-C10	2.87	120.58	111.83	19	5
4	A	396	PX4	C18-C17-C16	2.87	99.86	114.37	16	4
4	A	402	PX4	C15-C14-C13	2.87	99.87	114.37	14	1
4	A	396	PX4	C13-C12-C11	2.87	99.87	114.37	9	2
4	A	335	PX4	O1-P1-O4	2.87	120.56	107.57	18	3
4	A	337	PX4	C4-N1-C3	2.87	101.45	108.98	11	3
4	A	354	PX4	O5-C9-O6	2.87	116.46	123.63	5	4
4	A	409	PX4	C19-C18-C17	2.87	99.88	114.37	18	2
4	A	428	PX4	C11-C10-C9	2.87	103.19	113.69	13	2
4	A	350	PX4	C11-C10-C9	2.86	103.20	113.69	17	2
4	A	351	PX4	C26-C25-C24	2.86	102.60	113.13	10	3
4	A	399	PX4	C19-C18-C17	2.86	99.89	114.37	9	1
4	A	403	PX4	C27-C26-C25	2.86	99.89	114.37	17	4
4	A	317	PX4	O4-P1-O2	2.86	120.28	108.94	16	1
4	A	406	PX4	C16-C15-C14	2.86	99.89	114.37	5	4
4	A	426	PX4	O3-P1-O2	2.86	97.59	108.94	2	1
4	A	309	PX4	C28-C27-C26	2.86	99.90	114.37	13	3
4	A	306	PX4	O7-C7-C6	2.86	118.61	108.34	2	7
4	A	339	PX4	C8-O5-C9	2.86	106.66	117.12	8	4
4	A	363	PX4	C28-C27-C26	2.86	99.91	114.37	17	3
4	A	367	PX4	C27-C26-C25	2.86	99.90	114.37	15	1
4	A	405	PX4	C12-C11-C10	2.86	102.61	113.13	3	2
4	A	390	PX4	C18-C17-C16	2.86	99.90	114.37	16	2
4	A	311	PX4	C31-C30-C29	2.86	99.91	114.37	9	2
4	A	324	PX4	O8-C23-C24	2.86	112.59	123.78	9	2
4	A	416	PX4	C26-C25-C24	2.86	102.61	113.13	12	4
4	A	411	PX4	C26-C25-C24	2.86	102.62	113.13	9	1
4	A	418	PX4	O1-P1-O4	2.86	120.53	107.57	10	1
4	A	305	PX4	C8-O5-C9	2.86	106.67	117.12	9	2
4	A	323	PX4	O1-P1-O3	2.86	94.61	107.57	10	2
4	A	359	PX4	O8-C23-C24	2.86	112.61	123.78	7	2
4	A	307	PX4	C8-O5-C9	2.86	106.68	117.12	9	3
4	A	328	PX4	C7-O7-C23	2.86	110.96	117.80	8	5
4	A	392	PX4	C15-C14-C13	2.86	99.93	114.37	16	2
4	A	316	PX4	O1-P1-O4	2.85	120.50	107.57	2	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	352	PX4	C5-N1-C2	2.86	121.26	109.91	19	2
4	A	400	PX4	C5-N1-C2	2.85	121.25	109.91	9	2
4	A	371	PX4	O5-C9-C10	2.85	120.54	111.83	12	2
4	A	390	PX4	O1-P1-O3	2.85	120.51	107.57	17	2
4	A	315	PX4	C19-C18-C17	2.85	99.95	114.37	17	4
4	A	431	PX4	C4-N1-C2	2.85	121.25	109.91	12	1
4	A	323	PX4	C4-N1-C3	2.85	101.49	108.98	14	1
4	A	337	PX4	C11-C10-C9	2.85	103.25	113.69	9	2
4	A	404	PX4	O1-P1-O4	2.85	120.49	107.57	16	3
4	A	413	PX4	C5-N1-C4	2.85	116.47	108.98	4	6
4	A	353	PX4	C28-C27-C26	2.85	99.96	114.37	3	4
4	A	423	PX4	C19-C18-C17	2.85	99.96	114.37	1	1
4	A	424	PX4	C20-C19-C18	2.85	99.96	114.37	4	3
4	A	369	PX4	C5-N1-C4	2.85	101.49	108.98	19	4
4	A	428	PX4	O1-P1-O3	2.85	94.65	107.57	5	2
4	A	330	PX4	C26-C25-C24	2.85	102.66	113.13	13	2
4	A	336	PX4	O1-P1-O3	2.85	94.66	107.57	19	1
4	A	374	PX4	C26-C25-C24	2.85	102.67	113.13	19	2
4	A	409	PX4	O6-C9-C10	2.85	112.64	123.78	8	2
4	A	341	PX4	C17-C16-C15	2.85	99.98	114.37	4	1
4	A	360	PX4	O3-C1-C2	2.85	123.34	109.65	11	6
4	A	364	PX4	C33-C32-C31	2.85	99.98	114.37	1	1
4	A	383	PX4	O3-C1-C2	2.85	123.34	109.65	17	2
4	A	408	PX4	C30-C29-C28	2.85	99.98	114.37	4	1
4	A	323	PX4	C13-C12-C11	2.84	99.99	114.37	6	3
4	A	358	PX4	C17-C16-C15	2.84	99.99	114.37	8	3
4	A	365	PX4	C25-C24-C23	2.84	103.27	113.69	12	3
4	A	374	PX4	C18-C17-C16	2.84	100.00	114.37	2	2
4	A	412	PX4	O1-P1-O4	2.84	120.46	107.57	17	5
4	A	415	PX4	C13-C12-C11	2.84	99.99	114.37	6	3
4	A	331	PX4	C18-C17-C16	2.84	100.00	114.37	20	3
4	A	402	PX4	O6-C9-C10	2.84	112.67	123.78	4	3
4	A	388	PX4	C16-C15-C14	2.84	100.00	114.37	11	2
4	A	393	PX4	C25-C24-C23	2.84	103.28	113.69	16	2
4	A	422	PX4	O1-P1-O2	2.84	125.67	112.44	3	9
4	A	350	PX4	C25-C24-C23	2.84	124.11	113.69	2	2
4	A	344	PX4	C1-C2-N1	2.84	124.94	115.82	17	5
4	A	388	PX4	C13-C12-C11	2.84	100.02	114.37	20	4
4	A	411	PX4	C34-C33-C32	2.84	100.02	114.37	16	2
4	A	398	PX4	C25-C24-C23	2.84	103.29	113.69	12	3
4	A	307	PX4	C31-C30-C29	2.84	100.02	114.37	14	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	398	PX4	C34-C33-C32	2.84	100.02	114.37	7	2
4	A	427	PX4	O4-P1-O2	2.84	120.19	108.94	12	3
4	A	331	PX4	O5-C9-C10	2.84	120.49	111.83	1	3
4	A	366	PX4	C27-C26-C25	2.84	100.03	114.37	4	2
4	A	424	PX4	O4-P1-O2	2.84	120.18	108.94	3	4
4	A	332	PX4	C4-N1-C3	2.84	101.53	108.98	3	2
4	A	336	PX4	O1-P1-O4	2.84	120.42	107.57	7	2
4	A	353	PX4	C5-N1-C2	2.84	121.18	109.91	1	3
4	A	358	PX4	O1-P1-O3	2.83	94.72	107.57	4	3
4	A	360	PX4	C7-O7-C23	2.84	124.58	117.80	13	6
4	A	373	PX4	O1-P1-O3	2.84	94.71	107.57	1	5
4	A	380	PX4	O5-C9-C10	2.84	120.48	111.83	15	6
4	A	380	PX4	C19-C18-C17	2.84	100.04	114.37	15	4
4	A	413	PX4	C8-O5-C9	2.83	106.76	117.12	19	1
4	A	396	PX4	C5-N1-C4	2.83	101.53	108.98	7	2
4	A	431	PX4	C25-C24-C23	2.83	103.31	113.69	19	2
4	A	363	PX4	O7-C7-C8	2.83	118.50	108.34	15	5
4	A	368	PX4	C30-C29-C28	2.83	100.05	114.37	5	2
4	A	370	PX4	C34-C33-C32	2.83	100.06	114.37	16	1
4	A	402	PX4	C34-C33-C32	2.83	100.06	114.37	12	2
4	A	381	PX4	C15-C14-C13	2.83	100.06	114.37	10	2
4	A	382	PX4	C16-C15-C14	2.83	100.05	114.37	20	2
4	A	419	PX4	O5-C9-O6	2.83	116.54	123.63	12	5
4	A	323	PX4	C25-C24-C23	2.83	103.33	113.69	19	3
4	A	324	PX4	C5-N1-C4	2.83	101.55	108.98	8	1
4	A	328	PX4	C12-C11-C10	2.83	102.73	113.13	4	3
4	A	361	PX4	O4-P1-O2	2.83	97.72	108.94	20	2
4	A	377	PX4	C16-C15-C14	2.83	100.07	114.37	18	1
4	A	384	PX4	C11-C10-C9	2.83	103.33	113.69	2	5
4	A	393	PX4	O8-C23-C24	2.83	112.71	123.78	20	2
4	A	428	PX4	O1-P1-O4	2.83	120.39	107.57	19	4
4	A	381	PX4	C14-C13-C12	2.83	100.08	114.37	6	2
4	A	321	PX4	O3-C1-C2	2.83	123.25	109.65	8	4
4	A	334	PX4	O1-P1-O4	2.83	120.38	107.57	11	1
4	A	357	PX4	O3-P1-O2	2.83	97.74	108.94	19	4
4	A	399	PX4	C30-C29-C28	2.83	100.09	114.37	17	2
4	A	392	PX4	C5-N1-C4	2.83	116.40	108.98	2	4
4	A	392	PX4	C3-N1-C2	2.83	121.14	109.91	5	2
4	A	377	PX4	C4-N1-C3	2.82	101.56	108.98	10	2
4	A	390	PX4	C33-C32-C31	2.82	100.09	114.37	18	3
4	A	431	PX4	C32-C31-C30	2.83	100.09	114.37	12	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	340	PX4	O4-P1-O2	2.82	120.12	108.94	19	4
4	A	348	PX4	C26-C25-C24	2.82	102.75	113.13	12	3
4	A	353	PX4	C5-N1-C4	2.82	101.56	108.98	19	3
4	A	375	PX4	O1-P1-O3	2.82	94.78	107.57	6	2
4	A	408	PX4	O1-P1-O3	2.82	120.36	107.57	17	1
4	A	354	PX4	C5-N1-C4	2.82	116.39	108.98	11	4
4	A	429	PX4	C8-O5-C9	2.82	106.81	117.12	20	3
4	A	317	PX4	O1-P1-O4	2.82	94.79	107.57	5	4
4	A	349	PX4	C29-C28-C27	2.82	100.12	114.37	2	2
4	A	382	PX4	C1-C2-N1	2.82	124.86	115.82	10	5
4	A	413	PX4	O7-C7-C8	2.82	118.45	108.34	20	4
4	A	414	PX4	C33-C32-C31	2.82	100.12	114.37	12	3
4	A	309	PX4	O4-P1-O2	2.82	120.09	108.94	18	2
4	A	311	PX4	C17-C16-C15	2.82	100.13	114.37	7	2
4	A	374	PX4	C4-N1-C3	2.82	101.58	108.98	20	3
4	A	405	PX4	C3-N1-C2	2.82	121.10	109.91	15	2
4	A	317	PX4	C18-C17-C16	2.81	100.15	114.37	19	1
4	A	316	PX4	C5-N1-C3	2.81	116.36	108.98	4	5
4	A	328	PX4	C4-N1-C3	2.81	101.59	108.98	4	6
4	A	353	PX4	C30-C29-C28	2.81	100.14	114.37	7	3
4	A	376	PX4	O3-C1-C2	2.81	123.19	109.65	4	3
4	A	358	PX4	C12-C11-C10	2.81	102.79	113.13	12	2
4	A	317	PX4	C4-N1-C3	2.81	101.59	108.98	3	3
4	A	314	PX4	C29-C28-C27	2.81	100.16	114.37	18	1
4	A	307	PX4	C5-N1-C4	2.81	101.59	108.98	15	3
4	A	311	PX4	O4-P1-O2	2.81	120.08	108.94	8	2
4	A	311	PX4	C11-C10-C9	2.81	103.39	113.69	12	1
4	A	307	PX4	C25-C24-C23	2.81	103.40	113.69	15	3
4	A	315	PX4	C17-C16-C15	2.81	100.16	114.37	4	2
4	A	321	PX4	C32-C31-C30	2.81	100.16	114.37	18	3
4	A	340	PX4	C18-C17-C16	2.81	100.16	114.37	1	1
4	A	408	PX4	C25-C24-C23	2.81	103.39	113.69	4	4
4	A	314	PX4	C19-C18-C17	2.81	100.17	114.37	3	2
4	A	406	PX4	C15-C14-C13	2.81	100.17	114.37	1	3
4	A	382	PX4	O7-C7-C6	2.81	118.42	108.34	17	8
4	A	317	PX4	C17-C16-C15	2.81	100.18	114.37	13	1
4	A	362	PX4	O7-C7-C6	2.81	118.41	108.34	3	7
4	A	423	PX4	C17-C16-C15	2.81	100.18	114.37	15	3
4	A	307	PX4	C20-C19-C18	2.80	100.19	114.37	6	1
4	A	321	PX4	C17-C16-C15	2.80	100.19	114.37	20	1
4	A	349	PX4	C8-O5-C9	2.80	106.87	117.12	3	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	383	PX4	O8-C23-C24	2.81	112.81	123.78	3	2
4	A	378	PX4	C3-N1-C2	2.80	121.05	109.91	19	4
4	A	377	PX4	C13-C12-C11	2.80	100.20	114.37	15	1
4	A	392	PX4	O7-C7-C8	2.80	118.40	108.34	1	5
4	A	308	PX4	C31-C30-C29	2.80	100.21	114.37	2	1
4	A	330	PX4	C31-C30-C29	2.80	100.21	114.37	14	3
4	A	358	PX4	C29-C28-C27	2.80	100.21	114.37	20	2
4	A	392	PX4	C8-O5-C9	2.80	106.88	117.12	15	2
4	A	341	PX4	C18-C17-C16	2.80	100.22	114.37	18	2
4	A	359	PX4	C32-C31-C30	2.80	100.21	114.37	8	3
4	A	343	PX4	O1-P1-O4	2.80	120.25	107.57	5	2
4	A	372	PX4	C4-N1-C2	2.80	121.04	109.91	10	4
4	A	406	PX4	C5-N1-C2	2.80	121.04	109.91	16	1
4	A	407	PX4	C5-N1-C2	2.80	121.04	109.91	16	1
4	A	412	PX4	C25-C24-C23	2.80	103.44	113.69	6	1
4	A	307	PX4	C27-C26-C25	2.80	100.23	114.37	17	2
4	A	330	PX4	O1-P1-O3	2.80	94.88	107.57	19	2
4	A	425	PX4	O4-P1-O2	2.80	120.03	108.94	9	3
4	A	324	PX4	P1-O4-C6	2.80	105.33	121.35	14	7
4	A	361	PX4	O3-P1-O2	2.80	97.85	108.94	6	3
4	A	420	PX4	C25-C24-C23	2.80	103.44	113.69	19	1
4	A	368	PX4	C34-C33-C32	2.80	100.23	114.37	4	4
4	A	317	PX4	O3-C1-C2	2.79	123.10	109.65	14	1
4	A	308	PX4	C25-C24-C23	2.79	103.45	113.69	12	3
4	A	318	PX4	C18-C17-C16	2.79	100.24	114.37	3	3
4	A	344	PX4	O7-C23-O8	2.79	117.17	123.70	4	6
4	A	378	PX4	C26-C25-C24	2.80	102.86	113.13	2	1
4	A	409	PX4	O4-P1-O2	2.79	120.01	108.94	6	1
4	A	427	PX4	C5-N1-C4	2.79	101.64	108.98	13	4
4	A	310	PX4	C16-C15-C14	2.79	100.25	114.37	11	3
4	A	318	PX4	O4-P1-O2	2.79	120.00	108.94	1	2
4	A	315	PX4	C33-C32-C31	2.79	100.26	114.37	18	2
4	A	371	PX4	O7-C7-C6	2.79	118.36	108.34	10	8
4	A	402	PX4	C14-C13-C12	2.79	100.26	114.37	2	1
4	A	397	PX4	C19-C18-C17	2.79	100.26	114.37	11	3
4	A	415	PX4	C8-O5-C9	2.79	106.92	117.12	18	5
4	A	375	PX4	O3-P1-O2	2.79	97.88	108.94	6	5
4	A	425	PX4	C1-C2-N1	2.79	124.78	115.82	4	5
4	A	339	PX4	C26-C25-C24	2.79	102.88	113.13	6	3
4	A	369	PX4	C8-O5-C9	2.79	106.93	117.12	10	2
4	A	382	PX4	O5-C9-C10	2.79	120.34	111.83	1	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	419	PX4	C28-C27-C26	2.79	100.27	114.37	17	5
4	A	329	PX4	C29-C28-C27	2.79	100.29	114.37	17	2
4	A	357	PX4	O8-C23-C24	2.79	112.89	123.78	19	2
4	A	391	PX4	C12-C11-C10	2.79	102.89	113.13	17	3
4	A	421	PX4	O1-P1-O3	2.79	94.94	107.57	15	1
4	A	390	PX4	C5-N1-C2	2.78	120.98	109.91	12	2
4	A	419	PX4	C26-C25-C24	2.78	102.89	113.13	18	2
4	A	395	PX4	O4-P1-O2	2.78	119.97	108.94	16	2
4	A	395	PX4	C12-C11-C10	2.78	102.90	113.13	19	2
4	A	316	PX4	C28-C27-C26	2.78	100.31	114.37	2	4
4	A	333	PX4	C15-C14-C13	2.78	100.30	114.37	17	2
4	A	387	PX4	C26-C25-C24	2.78	102.91	113.13	12	2
4	A	395	PX4	C28-C27-C26	2.78	100.31	114.37	18	2
4	A	430	PX4	C30-C29-C28	2.78	100.31	114.37	11	1
4	A	308	PX4	C13-C12-C11	2.78	100.33	114.37	1	1
4	A	319	PX4	C33-C32-C31	2.78	100.32	114.37	1	1
4	A	375	PX4	O7-C7-C6	2.78	118.31	108.34	17	8
4	A	387	PX4	O4-P1-O2	2.78	119.95	108.94	19	3
4	A	322	PX4	C4-N1-C3	2.78	101.68	108.98	18	4
4	A	422	PX4	C16-C15-C14	2.78	100.32	114.37	11	1
4	A	305	PX4	C18-C17-C16	2.78	100.33	114.37	17	2
4	A	334	PX4	C31-C30-C29	2.78	100.33	114.37	16	1
4	A	339	PX4	C14-C13-C12	2.78	100.33	114.37	6	1
4	A	341	PX4	O4-P1-O2	2.78	97.93	108.94	4	2
4	A	405	PX4	C28-C27-C26	2.78	100.33	114.37	4	2
4	A	406	PX4	C4-N1-C3	2.78	101.68	108.98	3	4
4	A	412	PX4	O3-P1-O2	2.78	97.93	108.94	7	3
4	A	338	PX4	C29-C28-C27	2.77	100.34	114.37	14	3
4	A	414	PX4	C26-C25-C24	2.78	102.93	113.13	17	6
4	A	327	PX4	C8-O5-C9	2.77	106.99	117.12	5	2
4	A	328	PX4	C26-C25-C24	2.77	102.95	113.13	17	4
4	A	330	PX4	C15-C14-C13	2.77	100.36	114.37	1	3
4	A	340	PX4	C26-C25-C24	2.77	102.94	113.13	16	5
4	A	392	PX4	C33-C32-C31	2.77	100.35	114.37	3	1
4	A	421	PX4	O7-C7-C6	2.77	118.29	108.34	16	7
4	A	342	PX4	C4-N1-C2	2.77	120.92	109.91	15	2
4	A	358	PX4	C27-C26-C25	2.77	100.37	114.37	18	3
4	A	428	PX4	C17-C16-C15	2.77	100.36	114.37	18	3
4	A	325	PX4	C25-C24-C23	2.77	123.83	113.69	14	4
4	A	335	PX4	C17-C16-C15	2.77	100.38	114.37	17	1
4	A	375	PX4	C16-C15-C14	2.77	100.38	114.37	10	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	408	PX4	C5-N1-C3	2.77	101.71	108.98	3	1
4	A	321	PX4	O5-C9-C10	2.76	120.27	111.83	1	4
4	A	321	PX4	O1-P1-O4	2.76	120.10	107.57	16	2
4	A	348	PX4	O1-P1-O4	2.77	95.03	107.57	12	3
4	A	410	PX4	C11-C10-C9	2.77	103.56	113.69	14	2
4	A	333	PX4	C5-N1-C2	2.76	120.90	109.91	17	2
4	A	346	PX4	C3-N1-C2	2.76	120.89	109.91	14	1
4	A	358	PX4	C19-C18-C17	2.76	100.39	114.37	13	5
4	A	369	PX4	C18-C17-C16	2.76	100.40	114.37	6	2
4	A	371	PX4	C20-C19-C18	2.76	100.39	114.37	8	1
4	A	321	PX4	C4-N1-C3	2.76	101.72	108.98	11	4
4	A	325	PX4	C31-C30-C29	2.76	100.40	114.37	18	1
4	A	398	PX4	O4-P1-O2	2.76	97.98	108.94	8	1
4	A	367	PX4	O1-P1-O3	2.76	95.05	107.57	17	1
4	A	368	PX4	C7-O7-C23	2.76	111.19	117.80	2	5
4	A	376	PX4	C25-C24-C23	2.76	103.58	113.69	11	2
4	A	406	PX4	C4-N1-C2	2.76	98.93	109.91	2	2
4	A	412	PX4	C30-C29-C28	2.76	100.40	114.37	15	2
4	A	420	PX4	O1-P1-O3	2.76	95.05	107.57	3	3
4	A	408	PX4	C26-C25-C24	2.76	102.98	113.13	18	3
4	A	345	PX4	C33-C32-C31	2.76	100.42	114.37	7	3
4	A	348	PX4	O8-C23-C24	2.76	112.99	123.78	20	2
4	A	359	PX4	C4-N1-C2	2.76	120.88	109.91	15	2
4	A	365	PX4	C19-C18-C17	2.76	100.42	114.37	10	3
4	A	368	PX4	C18-C17-C16	2.76	100.42	114.37	14	3
4	A	386	PX4	C25-C24-C23	2.76	103.58	113.69	16	3
4	A	395	PX4	O3-C1-C2	2.76	122.93	109.65	5	4
4	A	414	PX4	C4-N1-C3	2.76	101.73	108.98	7	2
4	A	418	PX4	C13-C12-C11	2.76	100.42	114.37	14	2
4	A	425	PX4	O5-C9-C10	2.76	120.25	111.83	10	4
4	A	325	PX4	C34-C33-C32	2.76	100.43	114.37	7	1
4	A	328	PX4	C15-C14-C13	2.76	100.43	114.37	6	2
4	A	354	PX4	C3-N1-C2	2.76	98.95	109.91	18	2
4	A	369	PX4	C25-C24-C23	2.76	103.59	113.69	9	5
4	A	391	PX4	C14-C13-C12	2.76	100.42	114.37	16	1
4	A	415	PX4	C5-N1-C2	2.76	120.88	109.91	11	3
4	A	356	PX4	C5-N1-C3	2.76	101.73	108.98	4	5
4	A	413	PX4	O1-P1-O3	2.76	95.08	107.57	6	3
4	A	395	PX4	C20-C19-C18	2.76	100.43	114.37	9	2
4	A	419	PX4	C33-C32-C31	2.76	100.43	114.37	2	2
4	A	424	PX4	C15-C14-C13	2.76	100.44	114.37	11	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	316	PX4	C4-N1-C3	2.75	116.21	108.98	9	3
4	A	323	PX4	O1-P1-O4	2.75	120.05	107.57	17	4
4	A	307	PX4	O4-P1-O2	2.75	119.85	108.94	11	3
4	A	308	PX4	C11-C10-C9	2.75	103.60	113.69	20	5
4	A	319	PX4	C8-O5-C9	2.75	107.05	117.12	6	5
4	A	326	PX4	C19-C18-C17	2.75	100.45	114.37	18	1
4	A	342	PX4	C30-C29-C28	2.75	100.45	114.37	9	1
4	A	347	PX4	C28-C27-C26	2.75	100.44	114.37	3	1
4	A	332	PX4	C18-C17-C16	2.75	100.45	114.37	14	3
4	A	397	PX4	C28-C27-C26	2.75	100.45	114.37	8	1
4	A	423	PX4	C15-C14-C13	2.75	100.45	114.37	19	2
4	A	308	PX4	C15-C14-C13	2.75	100.46	114.37	7	2
4	A	335	PX4	C19-C18-C17	2.75	100.46	114.37	16	1
4	A	394	PX4	O3-P1-O2	2.75	98.03	108.94	4	2
4	A	355	PX4	C31-C30-C29	2.75	100.47	114.37	11	3
4	A	369	PX4	O1-P1-O3	2.75	95.10	107.57	4	2
4	A	318	PX4	C27-C26-C25	2.75	100.48	114.37	4	2
4	A	339	PX4	C5-N1-C4	2.75	116.19	108.98	20	5
4	A	357	PX4	C27-C26-C25	2.75	100.48	114.37	15	1
4	A	392	PX4	C26-C25-C24	2.75	103.04	113.13	13	2
4	A	348	PX4	O3-P1-O2	2.74	98.06	108.94	2	4
4	A	357	PX4	O5-C9-C10	2.74	120.20	111.83	10	2
4	A	404	PX4	O5-C9-C10	2.74	120.20	111.83	16	6
4	A	429	PX4	O1-P1-O4	2.74	120.00	107.57	5	1
4	A	357	PX4	C26-C25-C24	2.74	103.06	113.13	8	3
4	A	364	PX4	C18-C17-C16	2.74	100.52	114.37	16	2
4	A	402	PX4	C27-C26-C25	2.74	100.52	114.37	1	2
4	A	404	PX4	C3-N1-C2	2.74	120.80	109.91	11	2
4	A	383	PX4	C5-N1-C2	2.74	120.80	109.91	18	2
4	A	403	PX4	C19-C18-C17	2.74	100.53	114.37	16	3
4	A	430	PX4	C15-C14-C13	2.74	100.53	114.37	18	1
4	A	347	PX4	C14-C13-C12	2.74	100.53	114.37	4	1
4	A	309	PX4	C3-N1-C2	2.74	120.78	109.91	3	2
4	A	308	PX4	O5-C9-C10	2.74	120.18	111.83	2	5
4	A	350	PX4	C31-C30-C29	2.74	100.54	114.37	7	4
4	A	356	PX4	O1-P1-O2	2.74	125.17	112.44	19	8
4	A	394	PX4	C26-C25-C24	2.74	103.08	113.13	15	4
4	A	398	PX4	C30-C29-C28	2.74	100.54	114.37	6	2
4	A	319	PX4	C30-C29-C28	2.73	100.55	114.37	8	1
4	A	356	PX4	C18-C17-C16	2.73	100.55	114.37	8	1
4	A	417	PX4	C11-C10-C9	2.73	103.67	113.69	17	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	406	PX4	O1-P1-O4	2.73	119.95	107.57	7	3
4	A	387	PX4	O7-C7-C8	2.73	118.15	108.34	9	5
4	A	414	PX4	O1-P1-O2	2.73	125.16	112.44	17	7
4	A	367	PX4	C25-C24-C23	2.73	103.69	113.69	17	1
4	A	381	PX4	C33-C32-C31	2.73	100.57	114.37	18	1
4	A	407	PX4	C20-C19-C18	2.73	100.56	114.37	16	3
4	A	314	PX4	O1-P1-O2	2.73	125.14	112.44	19	8
4	A	394	PX4	C11-C10-C9	2.73	103.69	113.69	4	4
4	A	426	PX4	O7-C7-C6	2.73	118.14	108.34	17	5
4	A	334	PX4	O3-P1-O2	2.73	119.75	108.94	14	4
4	A	306	PX4	C26-C25-C24	2.73	103.11	113.13	6	3
4	A	338	PX4	O7-C23-O8	2.73	117.33	123.70	13	3
4	A	353	PX4	C4-N1-C3	2.73	101.81	108.98	12	3
4	A	311	PX4	C29-C28-C27	2.73	100.59	114.37	2	3
4	A	353	PX4	C4-N1-C2	2.73	99.07	109.91	18	4
4	A	367	PX4	O5-C9-O6	2.73	116.81	123.63	8	5
4	A	418	PX4	C12-C11-C10	2.73	103.11	113.13	1	6
4	A	375	PX4	C33-C32-C31	2.73	100.59	114.37	14	3
4	A	348	PX4	C11-C10-C9	2.72	103.71	113.69	12	4
4	A	413	PX4	O5-C9-C10	2.72	120.14	111.83	4	4
4	A	400	PX4	C14-C13-C12	2.72	100.61	114.37	16	2
4	A	403	PX4	O1-P1-O2	2.72	125.11	112.44	17	7
4	A	420	PX4	O1-P1-O4	2.72	119.91	107.57	1	3
4	A	327	PX4	C27-C26-C25	2.72	100.61	114.37	15	3
4	A	340	PX4	C27-C26-C25	2.72	100.61	114.37	19	2
4	A	343	PX4	C4-N1-C2	2.72	99.10	109.91	15	2
4	A	361	PX4	O3-C1-C2	2.72	122.74	109.65	19	1
4	A	389	PX4	C26-C25-C24	2.72	123.12	113.13	16	2
4	A	325	PX4	C4-N1-C3	2.72	116.12	108.98	10	4
4	A	307	PX4	C26-C25-C24	2.72	103.14	113.13	6	4
4	A	322	PX4	O4-P1-O2	2.72	119.71	108.94	4	3
4	A	342	PX4	C19-C18-C17	2.72	100.63	114.37	9	1
4	A	343	PX4	C28-C27-C26	2.72	100.63	114.37	18	4
4	A	364	PX4	O1-P1-O4	2.72	119.89	107.57	13	5
4	A	419	PX4	C36-C35-C34	2.72	95.00	113.36	9	1
4	A	372	PX4	C18-C17-C16	2.72	100.63	114.37	10	2
4	A	386	PX4	C20-C19-C18	2.72	100.63	114.37	14	1
4	A	412	PX4	C16-C15-C14	2.72	100.63	114.37	15	1
4	A	325	PX4	C8-O5-C9	2.72	107.19	117.12	8	4
4	A	327	PX4	O7-C7-C6	2.72	118.09	108.34	7	4
4	A	330	PX4	C27-C26-C25	2.72	100.64	114.37	9	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	351	PX4	C5-N1-C2	2.72	120.71	109.91	8	2
4	A	356	PX4	C29-C28-C27	2.72	100.64	114.37	19	4
4	A	401	PX4	C13-C12-C11	2.72	100.64	114.37	12	2
4	A	378	PX4	O1-P1-O4	2.72	119.88	107.57	11	5
4	A	378	PX4	O5-C9-C10	2.72	120.12	111.83	9	4
4	A	393	PX4	C19-C18-C17	2.72	100.63	114.37	15	2
4	A	387	PX4	C13-C12-C11	2.72	100.64	114.37	14	1
4	A	428	PX4	O8-C23-C24	2.72	113.16	123.78	1	2
4	A	323	PX4	C17-C16-C15	2.71	100.65	114.37	13	2
4	A	333	PX4	O3-P1-O2	2.71	98.18	108.94	16	3
4	A	352	PX4	C20-C19-C18	2.71	100.65	114.37	5	1
4	A	360	PX4	C1-C2-N1	2.71	124.53	115.82	2	5
4	A	383	PX4	C25-C24-C23	2.71	103.75	113.69	20	2
4	A	385	PX4	C5-N1-C3	2.71	101.85	108.98	2	5
4	A	411	PX4	C19-C18-C17	2.71	100.66	114.37	5	1
4	A	431	PX4	O5-C9-O6	2.71	116.84	123.63	16	2
4	A	314	PX4	C5-N1-C4	2.71	101.85	108.98	15	4
4	A	305	PX4	C3-N1-C2	2.71	99.13	109.91	15	2
4	A	352	PX4	C13-C12-C11	2.71	100.66	114.37	2	2
4	A	307	PX4	C4-N1-C2	2.71	120.69	109.91	3	2
4	A	366	PX4	C19-C18-C17	2.71	100.66	114.37	17	3
4	A	372	PX4	C33-C32-C31	2.71	100.66	114.37	12	1
4	A	403	PX4	C14-C13-C12	2.71	100.66	114.37	14	3
4	A	412	PX4	C13-C12-C11	2.71	100.66	114.37	11	2
4	A	394	PX4	C28-C27-C26	2.71	100.67	114.37	12	3
4	A	306	PX4	C8-O5-C9	2.71	107.21	117.12	15	3
4	A	326	PX4	C5-N1-C4	2.71	116.09	108.98	16	6
4	A	332	PX4	C26-C25-C24	2.71	103.17	113.13	19	5
4	A	361	PX4	O1-P1-O3	2.71	119.85	107.57	7	1
4	A	360	PX4	C11-C10-C9	2.71	103.77	113.69	8	1
4	A	372	PX4	O4-P1-O2	2.71	98.20	108.94	1	3
4	A	383	PX4	C16-C15-C14	2.71	100.68	114.37	12	1
4	A	378	PX4	C8-O5-C9	2.71	107.23	117.12	17	2
4	A	380	PX4	C27-C26-C25	2.71	100.69	114.37	20	3
4	A	354	PX4	C31-C30-C29	2.70	100.70	114.37	8	1
4	A	356	PX4	C3-N1-C2	2.71	120.66	109.91	4	3
4	A	422	PX4	C25-C24-C23	2.70	103.79	113.69	8	1
4	A	425	PX4	C13-C12-C11	2.70	100.69	114.37	19	1
4	A	428	PX4	C19-C18-C17	2.71	100.69	114.37	5	1
4	A	367	PX4	C12-C11-C10	2.70	103.19	113.13	9	2
4	A	402	PX4	O5-C9-O6	2.70	116.86	123.63	8	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	309	PX4	O1-P1-O3	2.70	95.32	107.57	20	2
4	A	314	PX4	C4-N1-C3	2.70	101.88	108.98	13	2
4	A	405	PX4	C14-C13-C12	2.70	100.71	114.37	11	2
4	A	405	PX4	O1-P1-O4	2.70	119.81	107.57	19	3
4	A	407	PX4	O1-P1-O4	2.70	119.81	107.57	16	2
4	A	407	PX4	C25-C24-C23	2.70	103.79	113.69	19	1
4	A	397	PX4	C16-C15-C14	2.70	100.71	114.37	1	2
4	A	399	PX4	O4-P1-O2	2.70	119.64	108.94	15	5
4	A	382	PX4	C8-O5-C9	2.70	107.25	117.12	16	2
4	A	384	PX4	C34-C33-C32	2.70	100.72	114.37	9	2
4	A	325	PX4	C12-C11-C10	2.70	103.22	113.13	13	2
4	A	330	PX4	C5-N1-C4	2.70	101.89	108.98	5	5
4	A	387	PX4	C31-C30-C29	2.70	100.73	114.37	10	1
4	A	311	PX4	C20-C19-C18	2.69	100.75	114.37	20	3
4	A	353	PX4	C33-C32-C31	2.70	100.74	114.37	8	2
4	A	427	PX4	C27-C26-C25	2.69	100.75	114.37	15	2
4	A	328	PX4	O6-C9-C10	2.69	113.25	123.78	20	1
4	A	331	PX4	C12-C11-C10	2.69	103.23	113.13	11	2
4	A	314	PX4	C12-C11-C10	2.69	103.24	113.13	13	3
4	A	312	PX4	O4-P1-O2	2.69	119.60	108.94	12	3
4	A	322	PX4	O5-C9-O6	2.69	116.89	123.63	2	2
4	A	324	PX4	C30-C29-C28	2.69	100.76	114.37	15	1
4	A	333	PX4	C34-C33-C32	2.69	100.76	114.37	2	1
4	A	351	PX4	O1-P1-O3	2.69	95.37	107.57	4	4
4	A	387	PX4	O7-C23-O8	2.69	117.41	123.70	16	6
4	A	421	PX4	O4-P1-O2	2.69	119.60	108.94	19	5
4	A	421	PX4	C33-C32-C31	2.69	100.76	114.37	2	2
4	A	352	PX4	O1-P1-O3	2.69	95.37	107.57	9	3
4	A	358	PX4	C5-N1-C3	2.69	101.91	108.98	15	4
4	A	380	PX4	C16-C15-C14	2.69	100.77	114.37	17	2
4	A	306	PX4	C4-N1-C3	2.69	116.04	108.98	9	5
4	A	418	PX4	C4-N1-C2	2.69	120.60	109.91	5	2
4	A	422	PX4	C4-N1-C3	2.69	101.92	108.98	7	5
4	A	424	PX4	O3-P1-O2	2.69	98.28	108.94	11	3
4	A	431	PX4	O4-P1-O2	2.69	119.59	108.94	9	3
4	A	318	PX4	C11-C10-C9	2.69	103.85	113.69	2	1
4	A	315	PX4	C13-C12-C11	2.69	100.79	114.37	9	1
4	A	332	PX4	C11-C10-C9	2.69	103.85	113.69	9	4
4	A	356	PX4	C8-O5-C9	2.69	126.94	117.12	19	5
4	A	306	PX4	O5-C9-O6	2.68	116.91	123.63	14	6
4	A	362	PX4	C30-C29-C28	2.68	100.80	114.37	1	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	388	PX4	C12-C11-C10	2.68	103.26	113.13	10	1
4	A	307	PX4	C32-C31-C30	2.68	100.81	114.37	17	2
4	A	332	PX4	C30-C29-C28	2.68	100.81	114.37	12	3
4	A	348	PX4	O4-P1-O2	2.68	98.30	108.94	16	2
4	A	359	PX4	C25-C24-C23	2.68	103.86	113.69	8	3
4	A	364	PX4	C14-C13-C12	2.68	100.81	114.37	2	2
4	A	404	PX4	C12-C11-C10	2.68	103.27	113.13	19	3
4	A	400	PX4	C8-O5-C9	2.68	107.32	117.12	18	1
4	A	390	PX4	O3-C1-C2	2.68	122.56	109.65	13	4
4	A	401	PX4	O4-P1-O2	2.68	119.56	108.94	17	3
4	A	317	PX4	C12-C11-C10	2.68	103.28	113.13	20	4
4	A	366	PX4	C17-C16-C15	2.68	100.83	114.37	19	1
4	A	370	PX4	O7-C7-C6	2.68	117.96	108.34	11	6
4	A	395	PX4	C3-N1-C2	2.68	120.56	109.91	2	2
4	A	396	PX4	C17-C16-C15	2.68	100.82	114.37	1	2
4	A	375	PX4	C34-C33-C32	2.68	100.83	114.37	16	3
4	A	385	PX4	C3-N1-C2	2.68	99.26	109.91	4	3
4	A	358	PX4	O5-C9-O6	2.68	116.93	123.63	5	5
4	A	414	PX4	C34-C33-C32	2.68	100.83	114.37	7	1
4	A	315	PX4	O7-C7-C6	2.68	117.94	108.34	20	3
4	A	347	PX4	C25-C24-C23	2.68	103.89	113.69	16	3
4	A	352	PX4	C15-C14-C13	2.68	100.84	114.37	12	2
4	A	319	PX4	C5-N1-C2	2.67	120.54	109.91	15	2
4	A	327	PX4	O1-P1-O4	2.67	119.69	107.57	20	3
4	A	358	PX4	C8-O5-C9	2.67	126.89	117.12	15	2
4	A	409	PX4	C14-C13-C12	2.67	100.85	114.37	9	2
4	A	392	PX4	C30-C29-C28	2.67	100.85	114.37	16	1
4	A	431	PX4	C34-C33-C32	2.67	100.85	114.37	18	4
4	A	394	PX4	C15-C14-C13	2.67	100.86	114.37	10	2
4	A	356	PX4	O4-P1-O2	2.67	119.53	108.94	19	6
4	A	419	PX4	O1-P1-O4	2.67	119.68	107.57	3	4
4	A	348	PX4	C27-C26-C25	2.67	100.87	114.37	19	1
4	A	354	PX4	C13-C12-C11	2.67	100.87	114.37	7	1
4	A	399	PX4	C4-N1-C2	2.67	99.30	109.91	19	1
4	A	391	PX4	O8-C23-C24	2.67	113.34	123.78	8	1
4	A	425	PX4	C15-C14-C13	2.67	100.87	114.37	1	1
4	A	425	PX4	C34-C33-C32	2.67	100.86	114.37	19	1
4	A	327	PX4	C12-C11-C10	2.67	103.32	113.13	15	3
4	A	332	PX4	C19-C18-C17	2.67	100.88	114.37	14	5
4	A	404	PX4	C13-C12-C11	2.67	100.88	114.37	6	3
4	A	406	PX4	O1-P1-O3	2.67	95.47	107.57	17	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	387	PX4	O1-P1-O3	2.67	95.48	107.57	14	2
4	A	392	PX4	C14-C13-C12	2.67	100.88	114.37	9	2
4	A	393	PX4	C12-C11-C10	2.67	103.32	113.13	19	3
4	A	308	PX4	O1-P1-O3	2.67	95.48	107.57	13	2
4	A	337	PX4	C19-C18-C17	2.67	100.89	114.37	15	2
4	A	339	PX4	C30-C29-C28	2.67	100.90	114.37	5	1
4	A	354	PX4	C4-N1-C3	2.67	101.97	108.98	2	4
4	A	366	PX4	O6-C9-C10	2.67	113.35	123.78	20	3
4	A	395	PX4	O1-P1-O3	2.67	95.48	107.57	5	3
4	A	317	PX4	O5-C9-O6	2.66	116.96	123.63	1	3
4	A	326	PX4	O1-P1-O4	2.66	95.49	107.57	2	4
4	A	401	PX4	C30-C29-C28	2.66	100.90	114.37	13	4
4	A	377	PX4	C18-C17-C16	2.66	100.90	114.37	18	1
4	A	374	PX4	C25-C24-C23	2.66	103.94	113.69	11	2
4	A	375	PX4	C25-C24-C23	2.66	103.94	113.69	15	1
4	A	385	PX4	O3-C1-C2	2.66	122.47	109.65	4	1
4	A	333	PX4	C31-C30-C29	2.66	100.91	114.37	3	1
4	A	353	PX4	C34-C33-C32	2.66	100.91	114.37	17	3
4	A	355	PX4	C20-C19-C18	2.66	100.91	114.37	20	1
4	A	364	PX4	C5-N1-C3	2.66	101.98	108.98	14	5
4	A	396	PX4	C25-C24-C23	2.66	103.94	113.69	20	2
4	A	424	PX4	C8-O5-C9	2.66	107.38	117.12	10	1
4	A	340	PX4	C13-C12-C11	2.66	100.92	114.37	3	2
4	A	360	PX4	C3-N1-C2	2.66	99.33	109.91	3	1
4	A	399	PX4	C13-C12-C11	2.66	100.92	114.37	11	3
4	A	392	PX4	C25-C24-C23	2.66	103.95	113.69	7	1
4	A	415	PX4	C27-C26-C25	2.66	100.92	114.37	5	2
4	A	423	PX4	C5-N1-C2	2.66	120.49	109.91	15	2
4	A	336	PX4	C12-C11-C10	2.66	122.90	113.13	15	2
4	A	429	PX4	C3-N1-C2	2.66	120.49	109.91	3	1
4	A	316	PX4	C34-C33-C32	2.66	100.93	114.37	6	3
4	A	329	PX4	C3-N1-C2	2.66	120.48	109.91	13	1
4	A	415	PX4	C25-C24-C23	2.66	103.95	113.69	18	4
4	A	309	PX4	O5-C9-C10	2.66	119.94	111.83	19	3
4	A	314	PX4	O5-C9-C10	2.66	119.94	111.83	9	4
4	A	326	PX4	C32-C31-C30	2.66	100.94	114.37	4	1
4	A	359	PX4	C29-C28-C27	2.66	100.94	114.37	1	2
4	A	365	PX4	C33-C32-C31	2.66	100.93	114.37	17	3
4	A	430	PX4	C33-C32-C31	2.66	100.93	114.37	18	4
4	A	325	PX4	C13-C12-C11	2.66	100.94	114.37	7	1
4	A	328	PX4	O8-C23-C24	2.66	113.39	123.78	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	327	PX4	O6-C9-C10	2.65	113.40	123.78	10	1
4	A	331	PX4	C16-C15-C14	2.66	100.94	114.37	2	2
4	A	344	PX4	C3-N1-C2	2.66	120.47	109.91	1	3
4	A	401	PX4	C5-N1-C2	2.66	120.47	109.91	13	2
4	A	397	PX4	O5-C9-O6	2.65	116.99	123.63	19	4
4	A	421	PX4	C3-N1-C2	2.66	120.47	109.91	12	3
4	A	352	PX4	O4-P1-O2	2.65	119.46	108.94	16	4
4	A	370	PX4	O1-P1-O3	2.65	95.54	107.57	11	3
4	A	427	PX4	C12-C11-C10	2.66	122.88	113.13	12	3
4	A	315	PX4	C5-N1-C3	2.65	102.01	108.98	10	6
4	A	363	PX4	O5-C9-O6	2.65	116.99	123.63	11	3
4	A	400	PX4	C27-C26-C25	2.65	100.96	114.37	17	3
4	A	379	PX4	O8-C23-C24	2.65	113.41	123.78	14	1
4	A	394	PX4	O5-C9-C10	2.65	119.92	111.83	4	5
4	A	424	PX4	C5-N1-C3	2.65	102.01	108.98	2	1
4	A	316	PX4	O5-C9-C10	2.65	119.92	111.83	7	4
4	A	351	PX4	O3-C1-C2	2.65	122.40	109.65	14	1
4	A	362	PX4	O1-P1-O4	2.65	119.58	107.57	14	4
4	A	311	PX4	C16-C15-C14	2.65	100.98	114.37	5	2
4	A	324	PX4	C13-C12-C11	2.65	100.98	114.37	16	2
4	A	394	PX4	C29-C28-C27	2.65	100.97	114.37	20	2
4	A	364	PX4	C29-C28-C27	2.65	100.98	114.37	10	1
4	A	372	PX4	C31-C30-C29	2.65	100.98	114.37	16	1
4	A	404	PX4	C26-C25-C24	2.65	103.39	113.13	5	3
4	A	390	PX4	C11-C10-C9	2.65	103.99	113.69	18	2
4	A	419	PX4	C4-N1-C2	2.65	99.38	109.91	4	4
4	A	334	PX4	C32-C31-C30	2.65	100.99	114.37	15	2
4	A	357	PX4	C8-O5-C9	2.65	107.44	117.12	19	3
4	A	361	PX4	C26-C25-C24	2.65	122.85	113.13	9	3
4	A	422	PX4	C31-C30-C29	2.65	100.99	114.37	3	1
4	A	424	PX4	O3-C1-C2	2.65	122.38	109.65	7	3
4	A	329	PX4	C25-C24-C23	2.65	104.00	113.69	4	5
4	A	347	PX4	C19-C18-C17	2.64	101.00	114.37	10	3
4	A	428	PX4	C4-N1-C2	2.65	120.42	109.91	20	3
4	A	316	PX4	O1-P1-O3	2.64	95.58	107.57	12	2
4	A	354	PX4	O1-P1-O3	2.64	95.59	107.57	12	1
4	A	405	PX4	C8-O5-C9	2.64	107.46	117.12	4	2
4	A	365	PX4	C14-C13-C12	2.64	101.01	114.37	1	4
4	A	419	PX4	C31-C30-C29	2.64	101.01	114.37	20	1
4	A	391	PX4	O5-C9-O6	2.64	117.02	123.63	14	5
4	A	431	PX4	C5-N1-C2	2.64	99.41	109.91	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	319	PX4	C3-N1-C2	2.64	120.41	109.91	19	3
4	A	322	PX4	O8-C23-C24	2.64	113.45	123.78	19	1
4	A	325	PX4	C7-O7-C23	2.64	124.12	117.80	2	1
4	A	322	PX4	C28-C27-C26	2.64	101.03	114.37	18	2
4	A	323	PX4	C14-C13-C12	2.64	101.03	114.37	20	1
4	A	399	PX4	C5-N1-C2	2.64	120.40	109.91	19	3
4	A	410	PX4	O4-P1-O2	2.64	119.40	108.94	5	2
4	A	398	PX4	O7-C7-C8	2.64	117.82	108.34	14	7
4	A	423	PX4	C18-C17-C16	2.64	101.02	114.37	18	4
4	A	314	PX4	O7-C7-C8	2.64	117.80	108.34	14	4
4	A	316	PX4	C11-C10-C9	2.64	104.03	113.69	15	1
4	A	382	PX4	C11-C10-C9	2.64	123.35	113.69	13	3
4	A	388	PX4	C15-C14-C13	2.64	101.04	114.37	3	1
4	A	389	PX4	C4-N1-C2	2.64	120.39	109.91	12	2
4	A	413	PX4	C5-N1-C2	2.64	120.40	109.91	18	5
4	A	431	PX4	O1-P1-O4	2.64	119.52	107.57	20	4
4	A	308	PX4	O3-C1-C2	2.64	122.33	109.65	13	2
4	A	353	PX4	C13-C12-C11	2.64	101.05	114.37	8	1
4	A	354	PX4	C32-C31-C30	2.64	101.05	114.37	1	4
4	A	357	PX4	C19-C18-C17	2.64	101.05	114.37	15	4
4	A	363	PX4	C26-C25-C24	2.64	103.44	113.13	12	2
4	A	310	PX4	C20-C19-C18	2.63	101.05	114.37	6	3
4	A	306	PX4	C30-C29-C28	2.63	101.06	114.37	5	2
4	A	324	PX4	O1-P1-O3	2.63	95.64	107.57	17	3
4	A	345	PX4	C3-N1-C2	2.63	99.44	109.91	5	2
4	A	361	PX4	C18-C17-C16	2.63	101.06	114.37	20	3
4	A	370	PX4	C30-C29-C28	2.63	101.06	114.37	19	2
4	A	373	PX4	C12-C11-C10	2.63	103.45	113.13	7	4
4	A	388	PX4	O1-P1-O3	2.63	95.64	107.57	5	3
4	A	336	PX4	C3-N1-C2	2.63	120.37	109.91	13	2
4	A	341	PX4	C14-C13-C12	2.63	101.07	114.37	5	3
4	A	364	PX4	C30-C29-C28	2.63	101.07	114.37	12	1
4	A	330	PX4	O4-P1-O2	2.63	119.36	108.94	6	3
4	A	330	PX4	C20-C19-C18	2.63	101.08	114.37	9	1
4	A	350	PX4	C5-N1-C4	2.63	102.07	108.98	7	3
4	A	363	PX4	O6-C9-C10	2.63	113.50	123.78	4	3
4	A	399	PX4	C26-C25-C24	2.63	103.47	113.13	20	2
4	A	404	PX4	C8-O5-C9	2.63	107.51	117.12	19	4
4	A	421	PX4	C32-C31-C30	2.63	101.08	114.37	9	1
4	A	331	PX4	C3-N1-C2	2.63	120.35	109.91	8	2
4	A	355	PX4	C28-C27-C26	2.63	101.08	114.37	12	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	417	PX4	C26-C25-C24	2.63	103.47	113.13	18	4
4	A	423	PX4	C16-C15-C14	2.63	101.08	114.37	13	3
4	A	309	PX4	C29-C28-C27	2.63	101.10	114.37	7	4
4	A	327	PX4	C11-C10-C9	2.63	123.31	113.69	8	3
4	A	344	PX4	C8-O5-C9	2.63	107.52	117.12	2	5
4	A	385	PX4	O6-C9-C10	2.63	113.51	123.78	13	3
4	A	394	PX4	O1-P1-O3	2.63	95.66	107.57	17	1
4	A	330	PX4	C4-N1-C2	2.62	120.34	109.91	5	1
4	A	336	PX4	C26-C25-C24	2.62	103.48	113.13	5	3
4	A	356	PX4	O7-C23-O8	2.62	117.57	123.70	4	6
4	A	381	PX4	C4-N1-C2	2.62	120.34	109.91	5	2
4	A	414	PX4	C13-C12-C11	2.62	101.10	114.37	8	2
4	A	391	PX4	C15-C14-C13	2.62	101.11	114.37	5	3
4	A	416	PX4	C16-C15-C14	2.62	101.11	114.37	16	3
4	A	417	PX4	C19-C18-C17	2.62	101.10	114.37	5	2
4	A	429	PX4	C15-C14-C13	2.63	101.10	114.37	2	2
4	A	409	PX4	C31-C30-C29	2.62	101.11	114.37	12	1
4	A	310	PX4	C28-C27-C26	2.62	101.11	114.37	15	1
4	A	370	PX4	C14-C13-C12	2.62	101.11	114.37	3	1
4	A	311	PX4	C12-C11-C10	2.62	103.50	113.13	6	3
4	A	363	PX4	C27-C26-C25	2.62	101.12	114.37	10	3
4	A	406	PX4	C27-C26-C25	2.62	101.11	114.37	18	2
4	A	323	PX4	O4-P1-O2	2.62	119.32	108.94	10	4
4	A	313	PX4	C3-N1-C2	2.62	99.50	109.91	10	2
4	A	329	PX4	C32-C31-C30	2.62	101.13	114.37	7	2
4	A	344	PX4	O3-P1-O2	2.62	98.55	108.94	8	3
4	A	412	PX4	C3-N1-C2	2.62	99.49	109.91	18	1
4	A	397	PX4	C11-C10-C9	2.62	104.09	113.69	19	1
4	A	428	PX4	C8-O5-C9	2.62	107.54	117.12	18	1
4	A	337	PX4	C33-C32-C31	2.62	101.14	114.37	2	3
4	A	339	PX4	C17-C16-C15	2.62	101.14	114.37	20	2
4	A	350	PX4	C4-N1-C2	2.62	120.31	109.91	6	2
4	A	355	PX4	O1-P1-O3	2.62	95.70	107.57	10	5
4	A	385	PX4	C19-C18-C17	2.62	101.13	114.37	3	2
4	A	374	PX4	C15-C14-C13	2.62	101.14	114.37	6	2
4	A	410	PX4	O1-P1-O4	2.62	119.43	107.57	14	2
4	A	411	PX4	C25-C24-C23	2.62	104.11	113.69	18	2
4	A	425	PX4	C12-C11-C10	2.62	103.51	113.13	16	3
4	A	305	PX4	C13-C12-C11	2.62	101.15	114.37	12	1
4	A	341	PX4	O3-C1-C2	2.62	122.23	109.65	2	2
4	A	396	PX4	O3-C1-C2	2.61	122.23	109.65	4	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	420	PX4	C19-C18-C17	2.61	101.15	114.37	14	2
4	A	427	PX4	C8-O5-C9	2.61	107.56	117.12	10	3
4	A	315	PX4	C8-O5-C9	2.61	107.57	117.12	10	6
4	A	317	PX4	C3-N1-C2	2.61	99.53	109.91	19	2
4	A	314	PX4	C32-C31-C30	2.61	101.17	114.37	13	1
4	A	329	PX4	O1-P1-O4	2.61	119.40	107.57	18	3
4	A	335	PX4	O7-C23-O8	2.61	117.60	123.70	4	6
4	A	339	PX4	C20-C19-C18	2.61	101.16	114.37	9	2
4	A	345	PX4	C18-C17-C16	2.61	101.17	114.37	13	1
4	A	361	PX4	C8-O5-C9	2.61	107.57	117.12	3	3
4	A	407	PX4	O4-P1-O2	2.61	119.29	108.94	20	3
4	A	374	PX4	C3-N1-C2	2.61	99.53	109.91	17	2
4	A	409	PX4	C5-N1-C4	2.61	102.11	108.98	19	6
4	A	426	PX4	C27-C26-C25	2.61	101.16	114.37	5	3
4	A	313	PX4	C27-C26-C25	2.61	101.17	114.37	15	1
4	A	351	PX4	C13-C12-C11	2.61	101.17	114.37	13	2
4	A	313	PX4	C1-C2-N1	2.61	124.19	115.82	12	5
4	A	349	PX4	C12-C11-C10	2.61	103.54	113.13	10	2
4	A	359	PX4	C30-C29-C28	2.61	101.18	114.37	5	3
4	A	379	PX4	C5-N1-C4	2.61	102.12	108.98	13	1
4	A	429	PX4	C33-C32-C31	2.61	101.18	114.37	7	1
4	A	307	PX4	C15-C14-C13	2.61	101.18	114.37	12	4
4	A	311	PX4	C4-N1-C3	2.61	102.12	108.98	17	3
4	A	307	PX4	C30-C29-C28	2.61	101.19	114.37	4	2
4	A	318	PX4	C26-C25-C24	2.61	103.55	113.13	16	4
4	A	344	PX4	C15-C14-C13	2.61	101.19	114.37	7	2
4	A	404	PX4	C5-N1-C4	2.61	102.13	108.98	13	7
4	A	407	PX4	O8-C23-C24	2.61	113.58	123.78	16	1
4	A	399	PX4	C32-C31-C30	2.61	101.19	114.37	9	2
4	A	311	PX4	C19-C18-C17	2.60	101.20	114.37	15	3
4	A	312	PX4	C4-N1-C2	2.61	120.27	109.91	3	1
4	A	410	PX4	C33-C32-C31	2.60	101.20	114.37	2	1
4	A	431	PX4	C28-C27-C26	2.60	101.20	114.37	18	1
4	A	417	PX4	C34-C33-C32	2.60	101.21	114.37	20	1
4	A	327	PX4	C4-N1-C2	2.60	99.57	109.91	5	3
4	A	420	PX4	C8-O5-C9	2.60	107.61	117.12	17	1
4	A	377	PX4	C8-O5-C9	2.60	107.61	117.12	7	3
4	A	313	PX4	C4-N1-C2	2.60	120.24	109.91	15	5
4	A	310	PX4	C4-N1-C3	2.60	102.15	108.98	16	5
4	A	340	PX4	C30-C29-C28	2.60	101.22	114.37	11	2
4	A	350	PX4	O5-C9-O6	2.60	117.13	123.63	6	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	313	PX4	C31-C30-C29	2.60	101.23	114.37	7	2
4	A	356	PX4	C16-C15-C14	2.60	101.23	114.37	1	3
4	A	385	PX4	C34-C33-C32	2.60	101.23	114.37	1	3
4	A	395	PX4	C8-O5-C9	2.60	107.62	117.12	13	3
4	A	323	PX4	C29-C28-C27	2.60	101.24	114.37	10	1
4	A	329	PX4	C20-C19-C18	2.60	101.24	114.37	10	2
4	A	399	PX4	C16-C15-C14	2.60	101.24	114.37	9	1
4	A	405	PX4	C16-C15-C14	2.60	101.24	114.37	1	2
4	A	409	PX4	O5-C9-C10	2.60	119.75	111.83	14	4
4	A	404	PX4	C30-C29-C28	2.60	101.25	114.37	3	4
4	A	395	PX4	C4-N1-C3	2.60	102.16	108.98	10	2
4	A	396	PX4	C3-N1-C2	2.60	120.23	109.91	9	2
4	A	306	PX4	C32-C31-C30	2.59	101.25	114.37	7	2
4	A	340	PX4	C3-N1-C2	2.60	120.23	109.91	20	1
4	A	385	PX4	C12-C11-C10	2.60	103.59	113.13	4	2
4	A	426	PX4	C32-C31-C30	2.60	101.25	114.37	5	2
4	A	321	PX4	C30-C29-C28	2.59	101.26	114.37	1	4
4	A	333	PX4	C19-C18-C17	2.59	101.26	114.37	2	3
4	A	383	PX4	C11-C10-C9	2.59	104.19	113.69	8	1
4	A	402	PX4	C20-C19-C18	2.59	101.27	114.37	12	1
4	A	420	PX4	C5-N1-C3	2.59	115.78	108.98	16	4
4	A	330	PX4	C14-C13-C12	2.59	101.27	114.37	3	3
4	A	407	PX4	C5-N1-C3	2.59	102.17	108.98	7	6
4	A	334	PX4	C13-C12-C11	2.59	101.28	114.37	9	2
4	A	340	PX4	C20-C19-C18	2.59	101.28	114.37	5	1
4	A	344	PX4	C25-C24-C23	2.59	104.21	113.69	19	1
4	A	348	PX4	C19-C18-C17	2.59	101.28	114.37	15	1
4	A	364	PX4	C5-N1-C2	2.59	99.62	109.91	14	2
4	A	381	PX4	C30-C29-C28	2.59	101.28	114.37	15	3
4	A	360	PX4	C20-C19-C18	2.59	101.29	114.37	15	3
4	A	391	PX4	C27-C26-C25	2.59	101.29	114.37	8	2
4	A	398	PX4	C33-C32-C31	2.59	101.29	114.37	5	3
4	A	312	PX4	C33-C32-C31	2.59	101.30	114.37	14	2
4	A	350	PX4	O3-P1-O2	2.59	98.69	108.94	11	3
4	A	354	PX4	C16-C15-C14	2.58	101.30	114.37	12	4
4	A	407	PX4	C12-C11-C10	2.59	103.63	113.13	13	2
4	A	338	PX4	C15-C14-C13	2.58	101.31	114.37	12	2
4	A	358	PX4	C31-C30-C29	2.58	101.31	114.37	17	4
4	A	399	PX4	C3-N1-C2	2.58	120.18	109.91	9	2
4	A	323	PX4	C33-C32-C31	2.58	101.31	114.37	4	1
4	A	364	PX4	O1-P1-O2	2.58	124.46	112.44	10	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	370	PX4	C31-C30-C29	2.58	101.31	114.37	19	3
4	A	383	PX4	C27-C26-C25	2.58	101.31	114.37	13	2
4	A	423	PX4	C28-C27-C26	2.58	101.31	114.37	12	3
4	A	431	PX4	C26-C25-C24	2.58	103.63	113.13	12	1
4	A	387	PX4	O3-P1-O2	2.58	98.70	108.94	16	1
4	A	310	PX4	O3-C1-C2	2.58	122.06	109.65	1	2
4	A	318	PX4	O1-P1-O3	2.58	119.26	107.57	11	3
4	A	330	PX4	C11-C10-C9	2.58	104.24	113.69	10	2
4	A	333	PX4	C5-N1-C4	2.58	102.20	108.98	10	1
4	A	344	PX4	C5-N1-C3	2.58	102.20	108.98	9	3
4	A	371	PX4	C32-C31-C30	2.58	101.33	114.37	6	3
4	A	381	PX4	C5-N1-C2	2.58	120.17	109.91	10	2
4	A	413	PX4	C33-C32-C31	2.58	101.32	114.37	6	1
4	A	425	PX4	C26-C25-C24	2.58	103.64	113.13	11	4
4	A	343	PX4	C17-C16-C15	2.58	101.34	114.37	12	3
4	A	346	PX4	C27-C26-C25	2.58	101.33	114.37	18	2
4	A	385	PX4	C25-C24-C23	2.58	104.24	113.69	15	2
4	A	396	PX4	O1-P1-O3	2.58	95.87	107.57	16	2
4	A	418	PX4	O3-P1-O2	2.58	119.16	108.94	8	3
4	A	332	PX4	O3-C1-C2	2.58	122.05	109.65	4	1
4	A	364	PX4	O3-C1-C2	2.58	122.05	109.65	1	2
4	A	401	PX4	C3-N1-C2	2.58	120.16	109.91	17	1
4	A	380	PX4	O4-P1-O2	2.58	119.15	108.94	11	2
4	A	387	PX4	C30-C29-C28	2.58	101.34	114.37	13	1
4	A	388	PX4	C26-C25-C24	2.58	103.66	113.13	13	2
4	A	339	PX4	C34-C33-C32	2.58	101.35	114.37	1	1
4	A	394	PX4	C30-C29-C28	2.58	101.34	114.37	1	1
4	A	341	PX4	C3-N1-C2	2.57	99.67	109.91	9	2
4	A	361	PX4	C27-C26-C25	2.58	101.35	114.37	11	1
4	A	401	PX4	C29-C28-C27	2.57	101.35	114.37	16	3
4	A	383	PX4	C30-C29-C28	2.57	101.35	114.37	9	3
4	A	389	PX4	C1-C2-N1	2.58	124.09	115.82	5	5
4	A	429	PX4	C29-C28-C27	2.58	101.34	114.37	17	2
4	A	325	PX4	O5-C9-C10	2.57	119.68	111.83	3	2
4	A	349	PX4	C17-C16-C15	2.57	101.36	114.37	20	5
4	A	353	PX4	C16-C15-C14	2.57	101.36	114.37	7	2
4	A	359	PX4	C31-C30-C29	2.57	101.36	114.37	17	1
4	A	363	PX4	C12-C11-C10	2.57	103.67	113.13	1	3
4	A	381	PX4	O1-P1-O4	2.57	119.23	107.57	17	2
4	A	389	PX4	C11-C10-C9	2.57	104.26	113.69	14	3
4	A	413	PX4	C30-C29-C28	2.57	101.36	114.37	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	398	PX4	C18-C17-C16	2.58	101.35	114.37	8	3
4	A	416	PX4	O5-C9-O6	2.57	117.19	123.63	6	3
4	A	359	PX4	C4-N1-C3	2.57	102.22	108.98	11	2
4	A	313	PX4	O3-C1-C2	2.57	122.02	109.65	14	2
4	A	331	PX4	C27-C26-C25	2.57	101.37	114.37	18	1
4	A	338	PX4	C30-C29-C28	2.57	101.37	114.37	4	2
4	A	348	PX4	C17-C16-C15	2.57	101.37	114.37	6	3
4	A	403	PX4	C20-C19-C18	2.57	101.37	114.37	3	1
4	A	384	PX4	C14-C13-C12	2.57	127.37	114.37	11	2
4	A	392	PX4	C17-C16-C15	2.57	101.36	114.37	4	1
4	A	343	PX4	C25-C24-C23	2.57	104.28	113.69	11	4
4	A	351	PX4	C16-C15-C14	2.57	101.37	114.37	17	2
4	A	356	PX4	C5-N1-C2	2.57	120.13	109.91	15	2
4	A	362	PX4	O6-C9-C10	2.57	113.73	123.78	3	1
4	A	363	PX4	C17-C16-C15	2.57	101.37	114.37	16	3
4	A	367	PX4	C18-C17-C16	2.57	101.37	114.37	2	1
4	A	404	PX4	C1-C2-N1	2.57	124.07	115.82	14	5
4	A	387	PX4	C4-N1-C2	2.57	99.69	109.91	4	1
4	A	412	PX4	C5-N1-C3	2.57	102.22	108.98	13	4
4	A	415	PX4	C34-C33-C32	2.57	101.37	114.37	9	2
4	A	425	PX4	C5-N1-C2	2.57	99.69	109.91	16	2
4	A	367	PX4	C16-C15-C14	2.57	101.38	114.37	16	2
4	A	358	PX4	O3-C1-C2	2.57	122.01	109.65	18	2
4	A	366	PX4	C5-N1-C3	2.57	102.23	108.98	1	2
4	A	374	PX4	C29-C28-C27	2.57	101.38	114.37	3	2
4	A	389	PX4	C20-C19-C18	2.57	101.39	114.37	5	1
4	A	318	PX4	C14-C13-C12	2.57	101.39	114.37	8	1
4	A	387	PX4	C32-C31-C30	2.57	101.39	114.37	3	3
4	A	392	PX4	C34-C33-C32	2.57	127.34	114.37	13	2
4	A	418	PX4	O7-C7-C6	2.57	117.55	108.34	20	8
4	A	305	PX4	C4-N1-C3	2.57	102.24	108.98	7	2
4	A	346	PX4	C1-C2-N1	2.57	124.06	115.82	20	5
4	A	333	PX4	C14-C13-C12	2.56	101.40	114.37	20	1
4	A	370	PX4	C11-C10-C9	2.57	104.29	113.69	16	4
4	A	389	PX4	C16-C15-C14	2.57	101.40	114.37	17	2
4	A	425	PX4	C20-C19-C18	2.57	101.40	114.37	15	1
4	A	426	PX4	C5-N1-C2	2.57	120.11	109.91	16	1
4	A	309	PX4	C19-C18-C17	2.56	101.41	114.37	4	4
4	A	306	PX4	O3-C1-C2	2.56	121.99	109.65	10	3
4	A	331	PX4	C20-C19-C18	2.56	101.41	114.37	12	2
4	A	379	PX4	O1-P1-O4	2.56	119.19	107.57	18	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	331	PX4	C30-C29-C28	2.56	101.42	114.37	15	1
4	A	342	PX4	C11-C10-C9	2.56	104.31	113.69	5	1
4	A	381	PX4	C20-C19-C18	2.56	101.42	114.37	3	3
4	A	383	PX4	C31-C30-C29	2.56	101.42	114.37	3	3
4	A	388	PX4	C32-C31-C30	2.56	101.42	114.37	4	1
4	A	426	PX4	C28-C27-C26	2.56	101.42	114.37	5	1
4	A	403	PX4	C29-C28-C27	2.56	101.42	114.37	20	2
4	A	414	PX4	O3-C1-C2	2.56	121.97	109.65	9	1
4	A	397	PX4	O8-C23-C24	2.56	113.77	123.78	1	2
4	A	416	PX4	C17-C16-C15	2.56	101.43	114.37	3	2
4	A	424	PX4	C3-N1-C2	2.56	120.09	109.91	13	2
4	A	348	PX4	C32-C31-C30	2.56	101.43	114.37	5	1
4	A	401	PX4	C4-N1-C2	2.56	120.08	109.91	14	2
4	A	402	PX4	C13-C12-C11	2.56	101.43	114.37	18	2
4	A	326	PX4	C13-C12-C11	2.56	101.45	114.37	17	2
4	A	334	PX4	C34-C33-C32	2.56	101.44	114.37	6	3
4	A	367	PX4	C30-C29-C28	2.56	101.45	114.37	17	1
4	A	386	PX4	O3-P1-O2	2.56	98.80	108.94	13	3
4	A	411	PX4	C29-C28-C27	2.56	101.44	114.37	4	2
4	A	412	PX4	C18-C17-C16	2.56	101.44	114.37	18	5
4	A	426	PX4	C3-N1-C2	2.56	99.75	109.91	18	1
4	A	409	PX4	C34-C33-C32	2.56	101.45	114.37	8	3
4	A	330	PX4	C12-C11-C10	2.55	103.74	113.13	20	1
4	A	415	PX4	C14-C13-C12	2.55	101.45	114.37	14	1
4	A	331	PX4	C15-C14-C13	2.55	101.46	114.37	15	1
4	A	344	PX4	O1-P1-O4	2.55	119.14	107.57	16	2
4	A	376	PX4	O8-C23-C24	2.55	113.79	123.78	3	2
4	A	327	PX4	C5-N1-C2	2.55	120.05	109.91	5	1
4	A	332	PX4	C4-N1-C2	2.55	120.06	109.91	6	3
4	A	348	PX4	C30-C29-C28	2.55	101.47	114.37	5	1
4	A	371	PX4	C25-C24-C23	2.55	104.34	113.69	18	1
4	A	403	PX4	O1-P1-O4	2.55	119.14	107.57	18	5
4	A	354	PX4	C1-C2-N1	2.55	124.01	115.82	10	5
4	A	378	PX4	C15-C14-C13	2.55	101.48	114.37	13	1
4	A	394	PX4	C3-N1-C2	2.55	120.05	109.91	9	2
4	A	416	PX4	C20-C19-C18	2.55	101.47	114.37	14	1
4	A	429	PX4	C13-C12-C11	2.55	101.48	114.37	12	3
4	A	320	PX4	C28-C27-C26	2.55	101.48	114.37	15	2
4	A	420	PX4	C27-C26-C25	2.55	101.48	114.37	14	1
4	A	422	PX4	C26-C25-C24	2.55	103.76	113.13	19	2
4	A	309	PX4	C26-C25-C24	2.55	103.77	113.13	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	321	PX4	C31-C30-C29	2.55	101.49	114.37	6	2
4	A	334	PX4	C17-C16-C15	2.55	101.49	114.37	15	1
4	A	322	PX4	C33-C32-C31	2.55	101.50	114.37	18	1
4	A	335	PX4	C28-C27-C26	2.55	101.49	114.37	1	2
4	A	400	PX4	C26-C25-C24	2.55	122.49	113.13	2	3
4	A	370	PX4	C16-C15-C14	2.55	101.50	114.37	5	1
4	A	376	PX4	O5-C9-C10	2.55	119.60	111.83	14	5
4	A	376	PX4	C28-C27-C26	2.55	101.49	114.37	4	2
4	A	313	PX4	O5-C9-C10	2.55	119.59	111.83	6	3
4	A	352	PX4	C12-C11-C10	2.55	122.48	113.13	18	4
4	A	355	PX4	C33-C32-C31	2.55	101.50	114.37	1	1
4	A	388	PX4	C25-C24-C23	2.55	104.36	113.69	18	5
4	A	416	PX4	C4-N1-C3	2.55	102.29	108.98	5	3
4	A	361	PX4	C25-C24-C23	2.55	104.37	113.69	13	2
4	A	428	PX4	C18-C17-C16	2.55	101.50	114.37	15	1
4	A	392	PX4	C20-C19-C18	2.54	101.51	114.37	10	1
4	A	395	PX4	O8-C23-C24	2.54	113.83	123.78	11	3
4	A	308	PX4	C20-C19-C18	2.54	101.51	114.37	19	2
4	A	319	PX4	O6-C9-C10	2.54	113.83	123.78	3	1
4	A	334	PX4	O3-C1-C2	2.54	121.89	109.65	12	3
4	A	308	PX4	C18-C17-C16	2.54	101.52	114.37	16	3
4	A	335	PX4	C4-N1-C3	2.54	102.30	108.98	19	3
4	A	343	PX4	C32-C31-C30	2.54	101.51	114.37	14	2
4	A	343	PX4	C5-N1-C3	2.54	115.66	108.98	8	3
4	A	349	PX4	C16-C15-C14	2.54	101.52	114.37	13	2
4	A	355	PX4	C26-C25-C24	2.54	103.79	113.13	7	4
4	A	368	PX4	C3-N1-C2	2.54	120.02	109.91	13	1
4	A	409	PX4	C15-C14-C13	2.54	101.51	114.37	4	4
4	A	424	PX4	C12-C11-C10	2.54	103.79	113.13	19	1
4	A	429	PX4	C25-C24-C23	2.54	104.38	113.69	19	1
4	A	318	PX4	C34-C33-C32	2.54	101.53	114.37	13	2
4	A	331	PX4	C4-N1-C3	2.54	115.65	108.98	11	3
4	A	320	PX4	O8-C23-C24	2.54	113.85	123.78	4	3
4	A	347	PX4	O3-P1-O2	2.54	98.87	108.94	15	2
4	A	350	PX4	C29-C28-C27	2.54	101.53	114.37	19	3
4	A	403	PX4	C8-O5-C9	2.54	107.83	117.12	9	2
4	A	323	PX4	C5-N1-C4	2.54	102.31	108.98	9	3
4	A	335	PX4	C20-C19-C18	2.54	101.54	114.37	9	1
4	A	413	PX4	O3-C1-C2	2.54	121.86	109.65	9	1
4	A	415	PX4	O4-P1-O2	2.54	119.00	108.94	8	4
4	A	339	PX4	C5-N1-C2	2.54	119.99	109.91	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	351	PX4	C11-C10-C9	2.54	104.40	113.69	20	1
4	A	359	PX4	C19-C18-C17	2.54	101.54	114.37	1	3
4	A	376	PX4	C5-N1-C3	2.54	102.31	108.98	20	5
4	A	310	PX4	C8-O5-C9	2.54	107.85	117.12	6	2
4	A	307	PX4	C16-C15-C14	2.53	101.56	114.37	6	2
4	A	317	PX4	C16-C15-C14	2.53	101.56	114.37	17	1
4	A	341	PX4	C19-C18-C17	2.54	101.55	114.37	3	3
4	A	397	PX4	O3-P1-O2	2.54	98.88	108.94	20	3
4	A	372	PX4	C5-N1-C2	2.53	119.99	109.91	3	1
4	A	380	PX4	C5-N1-C2	2.53	119.98	109.91	3	1
4	A	421	PX4	C26-C25-C24	2.54	103.81	113.13	14	2
4	A	426	PX4	C18-C17-C16	2.53	101.56	114.37	12	2
4	A	328	PX4	O3-C1-C2	2.53	121.84	109.65	16	4
4	A	331	PX4	C17-C16-C15	2.53	101.56	114.37	12	1
4	A	413	PX4	C26-C25-C24	2.53	103.82	113.13	5	1
4	A	420	PX4	C34-C33-C32	2.53	101.56	114.37	18	2
4	A	397	PX4	C8-O5-C9	2.53	107.87	117.12	18	1
4	A	397	PX4	C14-C13-C12	2.53	101.58	114.37	19	1
4	A	418	PX4	C18-C17-C16	2.53	101.57	114.37	5	2
4	A	428	PX4	C13-C12-C11	2.53	101.57	114.37	1	1
4	A	305	PX4	C29-C28-C27	2.53	101.58	114.37	4	1
4	A	346	PX4	C5-N1-C2	2.53	99.86	109.91	1	2
4	A	385	PX4	C13-C12-C11	2.53	101.58	114.37	14	1
4	A	386	PX4	O4-P1-O2	2.53	118.96	108.94	13	2
4	A	320	PX4	C1-C2-N1	2.53	123.93	115.82	1	5
4	A	372	PX4	C12-C11-C10	2.53	103.84	113.13	4	3
4	A	385	PX4	C26-C25-C24	2.53	103.84	113.13	3	3
4	A	425	PX4	O1-P1-O3	2.53	119.02	107.57	3	3
4	A	426	PX4	C15-C14-C13	2.53	101.59	114.37	10	4
4	A	345	PX4	C17-C16-C15	2.53	101.60	114.37	17	4
4	A	324	PX4	C29-C28-C27	2.52	101.61	114.37	19	1
4	A	345	PX4	O3-C1-C2	2.52	121.80	109.65	2	3
4	A	369	PX4	C34-C33-C32	2.52	101.61	114.37	7	1
4	A	378	PX4	C32-C31-C30	2.52	101.61	114.37	16	3
4	A	320	PX4	C34-C33-C32	2.52	101.62	114.37	3	2
4	A	339	PX4	O8-C23-C24	2.52	113.92	123.78	1	2
4	A	368	PX4	C27-C26-C25	2.52	101.62	114.37	19	2
4	A	379	PX4	C12-C11-C10	2.52	103.86	113.13	19	3
4	A	380	PX4	O3-C1-C2	2.52	121.78	109.65	11	3
4	A	327	PX4	C33-C32-C31	2.52	101.63	114.37	19	1
4	A	367	PX4	C14-C13-C12	2.52	101.63	114.37	6	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	329	PX4	C12-C11-C10	2.52	103.87	113.13	16	5
4	A	342	PX4	C17-C16-C15	2.52	101.63	114.37	7	1
4	A	349	PX4	C19-C18-C17	2.52	101.63	114.37	16	2
4	A	353	PX4	O1-P1-O4	2.52	118.99	107.57	8	4
4	A	404	PX4	C17-C16-C15	2.52	101.63	114.37	4	1
4	A	407	PX4	C14-C13-C12	2.52	101.63	114.37	3	3
4	A	420	PX4	C28-C27-C26	2.52	101.63	114.37	3	1
4	A	412	PX4	C12-C11-C10	2.52	122.38	113.13	2	3
4	A	426	PX4	C33-C32-C31	2.52	101.64	114.37	18	1
4	A	427	PX4	C5-N1-C3	2.52	102.36	108.98	6	2
4	A	429	PX4	C12-C11-C10	2.52	103.87	113.13	5	3
4	A	336	PX4	C27-C26-C25	2.52	101.64	114.37	7	2
4	A	353	PX4	C31-C30-C29	2.52	101.64	114.37	20	2
4	A	325	PX4	O3-C1-C2	2.52	121.76	109.65	4	2
4	A	356	PX4	C32-C31-C30	2.52	101.65	114.37	18	5
4	A	409	PX4	C20-C19-C18	2.52	101.65	114.37	10	2
4	A	387	PX4	C5-N1-C3	2.52	102.36	108.98	8	2
4	A	363	PX4	C19-C18-C17	2.51	101.66	114.37	11	3
4	A	408	PX4	C31-C30-C29	2.51	101.66	114.37	11	1
4	A	318	PX4	O1-P1-O4	2.51	118.96	107.57	9	2
4	A	323	PX4	C1-C2-N1	2.51	123.89	115.82	5	3
4	A	412	PX4	C34-C33-C32	2.51	101.66	114.37	19	1
4	A	335	PX4	C31-C30-C29	2.51	101.67	114.37	1	1
4	A	347	PX4	O3-C1-C2	2.51	121.74	109.65	9	3
4	A	373	PX4	C18-C17-C16	2.51	101.67	114.37	6	1
4	A	371	PX4	C5-N1-C2	2.51	119.89	109.91	12	1
4	A	384	PX4	C15-C14-C13	2.51	101.68	114.37	19	4
4	A	431	PX4	O3-P1-O2	2.51	98.98	108.94	16	3
4	A	431	PX4	O3-C1-C2	2.51	121.73	109.65	9	1
4	A	313	PX4	C14-C13-C12	2.51	101.68	114.37	19	4
4	A	352	PX4	C33-C32-C31	2.51	101.69	114.37	10	2
4	A	356	PX4	O3-C1-C2	2.51	121.72	109.65	18	2
4	A	391	PX4	C26-C25-C24	2.51	103.91	113.13	17	2
4	A	412	PX4	C29-C28-C27	2.51	101.68	114.37	19	2
4	A	391	PX4	C34-C33-C32	2.51	101.69	114.37	6	1
4	A	398	PX4	C14-C13-C12	2.51	101.69	114.37	13	3
4	A	312	PX4	O8-C23-C24	2.51	113.98	123.78	4	2
4	A	329	PX4	C30-C29-C28	2.51	101.70	114.37	2	3
4	A	339	PX4	O5-C9-O6	2.51	117.36	123.63	18	7
4	A	385	PX4	C15-C14-C13	2.51	101.70	114.37	6	2
4	A	366	PX4	C25-C24-C23	2.51	104.51	113.69	8	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	396	PX4	C32-C31-C30	2.50	101.71	114.37	5	2
4	A	431	PX4	C16-C15-C14	2.50	101.71	114.37	17	3
4	A	431	PX4	C3-N1-C2	2.51	119.87	109.91	9	1
4	A	311	PX4	O1-P1-O4	2.50	118.92	107.57	15	5
4	A	320	PX4	C4-N1-C2	2.50	119.86	109.91	7	2
4	A	323	PX4	C15-C14-C13	2.50	101.71	114.37	10	1
4	A	329	PX4	C34-C33-C32	2.50	101.71	114.37	3	3
4	A	347	PX4	O1-P1-O3	2.50	96.22	107.57	1	3
4	A	358	PX4	C5-N1-C2	2.50	119.86	109.91	5	3
4	A	363	PX4	O1-P1-O4	2.50	118.91	107.57	13	2
4	A	364	PX4	C8-O5-C9	2.50	107.97	117.12	8	1
4	A	408	PX4	C12-C11-C10	2.50	103.92	113.13	19	1
4	A	305	PX4	C26-C25-C24	2.50	103.93	113.13	20	2
4	A	311	PX4	O5-C9-C10	2.50	119.46	111.83	5	3
4	A	330	PX4	O1-P1-O4	2.50	118.90	107.57	18	6
4	A	330	PX4	C17-C16-C15	2.50	101.73	114.37	3	2
4	A	335	PX4	C33-C32-C31	2.50	101.73	114.37	5	3
4	A	337	PX4	C4-N1-C2	2.50	99.97	109.91	6	3
4	A	346	PX4	C28-C27-C26	2.50	101.74	114.37	13	1
4	A	401	PX4	C15-C14-C13	2.50	101.74	114.37	15	2
4	A	410	PX4	C34-C33-C32	2.50	101.74	114.37	15	3
4	A	396	PX4	O3-P1-O2	2.50	99.03	108.94	12	3
4	A	327	PX4	O8-C23-C24	2.50	114.02	123.78	7	3
4	A	359	PX4	C18-C17-C16	2.50	101.74	114.37	11	1
4	A	420	PX4	O3-C1-C2	2.50	121.67	109.65	1	3
4	A	410	PX4	O6-C9-C10	2.50	114.02	123.78	1	2
4	A	392	PX4	O1-P1-O3	2.50	96.25	107.57	5	2
4	A	315	PX4	C29-C28-C27	2.50	101.75	114.37	7	2
4	A	410	PX4	C32-C31-C30	2.50	101.75	114.37	14	1
4	A	431	PX4	C5-N1-C4	2.50	102.42	108.98	12	8
4	A	319	PX4	C4-N1-C2	2.49	119.83	109.91	14	1
4	A	339	PX4	C33-C32-C31	2.49	101.76	114.37	4	1
4	A	344	PX4	C19-C18-C17	2.49	101.76	114.37	1	2
4	A	350	PX4	C34-C33-C32	2.49	101.77	114.37	4	2
4	A	362	PX4	C33-C32-C31	2.49	101.76	114.37	8	1
4	A	382	PX4	C20-C19-C18	2.49	101.76	114.37	10	1
4	A	408	PX4	C16-C15-C14	2.49	101.77	114.37	7	1
4	A	386	PX4	C3-N1-C2	2.49	119.82	109.91	12	1
4	A	398	PX4	O1-P1-O3	2.49	118.87	107.57	4	3
4	A	336	PX4	O3-C1-C2	2.49	121.64	109.65	15	4
4	A	371	PX4	C16-C15-C14	2.49	101.77	114.37	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	388	PX4	C27-C26-C25	2.49	101.77	114.37	13	2
4	A	398	PX4	C11-C10-C9	2.49	104.56	113.69	10	4
4	A	424	PX4	C5-N1-C2	2.49	119.81	109.91	3	2
4	A	427	PX4	C30-C29-C28	2.49	101.77	114.37	5	1
4	A	312	PX4	C17-C16-C15	2.49	101.78	114.37	8	2
4	A	327	PX4	C20-C19-C18	2.49	101.78	114.37	14	2
4	A	337	PX4	C29-C28-C27	2.49	101.78	114.37	12	1
4	A	358	PX4	C14-C13-C12	2.49	101.78	114.37	12	1
4	A	311	PX4	C33-C32-C31	2.49	101.79	114.37	12	4
4	A	344	PX4	C26-C25-C24	2.49	103.98	113.13	18	3
4	A	348	PX4	C15-C14-C13	2.49	101.78	114.37	1	2
4	A	370	PX4	C28-C27-C26	2.49	101.78	114.37	1	1
4	A	390	PX4	O4-P1-O2	2.49	99.07	108.94	16	1
4	A	388	PX4	O3-C1-C2	2.49	121.63	109.65	17	2
4	A	318	PX4	C13-C12-C11	2.49	101.79	114.37	6	2
4	A	315	PX4	C16-C15-C14	2.49	101.79	114.37	10	3
4	A	331	PX4	C11-C10-C9	2.49	104.58	113.69	20	3
4	A	393	PX4	C27-C26-C25	2.49	101.79	114.37	17	3
4	A	397	PX4	C34-C33-C32	2.49	101.79	114.37	4	1
4	A	401	PX4	C31-C30-C29	2.49	101.80	114.37	17	1
4	A	305	PX4	O6-C9-C10	2.49	114.06	123.78	6	2
4	A	381	PX4	C28-C27-C26	2.49	101.80	114.37	19	1
4	A	409	PX4	O1-P1-O4	2.49	118.84	107.57	6	3
4	A	363	PX4	C16-C15-C14	2.49	101.81	114.37	8	2
4	A	413	PX4	C13-C12-C11	2.49	101.80	114.37	2	2
4	A	325	PX4	C33-C32-C31	2.48	101.82	114.37	9	2
4	A	331	PX4	C4-N1-C2	2.48	100.04	109.91	8	2
4	A	343	PX4	C3-N1-C2	2.48	119.78	109.91	15	1
4	A	355	PX4	C16-C15-C14	2.48	101.82	114.37	18	2
4	A	366	PX4	C29-C28-C27	2.48	101.81	114.37	15	2
4	A	332	PX4	C5-N1-C2	2.48	119.78	109.91	12	2
4	A	357	PX4	C32-C31-C30	2.48	101.82	114.37	15	1
4	A	419	PX4	C27-C26-C25	2.48	101.82	114.37	12	2
4	A	425	PX4	C25-C24-C23	2.48	104.60	113.69	1	2
4	A	318	PX4	C12-C11-C10	2.48	104.02	113.13	10	2
4	A	331	PX4	C8-O5-C9	2.48	108.05	117.12	13	4
4	A	401	PX4	C12-C11-C10	2.48	122.24	113.13	6	2
4	A	402	PX4	O1-P1-O4	2.48	118.81	107.57	15	5
4	A	380	PX4	C4-N1-C2	2.48	119.76	109.91	6	2
4	A	381	PX4	C8-O5-C9	2.48	108.05	117.12	16	3
4	A	384	PX4	C20-C19-C18	2.48	101.84	114.37	13	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	427	PX4	C1-C2-N1	2.48	123.78	115.82	8	4
4	A	325	PX4	O1-P1-O4	2.48	118.80	107.57	9	4
4	A	355	PX4	C14-C13-C12	2.48	101.84	114.37	6	1
4	A	373	PX4	C25-C24-C23	2.48	104.62	113.69	17	3
4	A	415	PX4	C19-C18-C17	2.48	101.84	114.37	20	2
4	A	331	PX4	O3-C1-C2	2.48	121.57	109.65	15	3
4	A	341	PX4	C33-C32-C31	2.48	101.85	114.37	16	1
4	A	346	PX4	O1-P1-O4	2.48	118.79	107.57	2	2
4	A	350	PX4	C19-C18-C17	2.48	101.85	114.37	18	1
4	A	354	PX4	C18-C17-C16	2.48	101.85	114.37	16	3
4	A	358	PX4	C3-N1-C2	2.48	119.75	109.91	6	1
4	A	320	PX4	O1-P1-O4	2.48	118.79	107.57	5	6
4	A	334	PX4	C18-C17-C16	2.48	101.86	114.37	1	1
4	A	361	PX4	C17-C16-C15	2.48	101.85	114.37	16	2
4	A	386	PX4	O1-P1-O4	2.48	96.34	107.57	16	1
4	A	419	PX4	C13-C12-C11	2.48	101.85	114.37	17	5
4	A	366	PX4	C34-C33-C32	2.47	101.86	114.37	6	1
4	A	383	PX4	C14-C13-C12	2.47	101.86	114.37	4	2
4	A	408	PX4	C29-C28-C27	2.47	101.86	114.37	8	2
4	A	389	PX4	C33-C32-C31	2.47	101.86	114.37	20	2
4	A	395	PX4	C15-C14-C13	2.47	101.86	114.37	17	1
4	A	414	PX4	C3-N1-C2	2.47	100.07	109.91	1	2
4	A	309	PX4	C1-C2-N1	2.47	123.76	115.82	11	4
4	A	360	PX4	C28-C27-C26	2.47	101.87	114.37	7	3
4	A	375	PX4	C26-C25-C24	2.47	104.04	113.13	12	2
4	A	383	PX4	O7-C7-C6	2.47	117.21	108.34	11	7
4	A	427	PX4	C4-N1-C2	2.47	100.08	109.91	20	3
4	A	308	PX4	C5-N1-C3	2.47	115.47	108.98	17	3
4	A	321	PX4	C34-C33-C32	2.47	101.88	114.37	16	3
4	A	344	PX4	C30-C29-C28	2.47	101.88	114.37	2	1
4	A	373	PX4	C31-C30-C29	2.47	101.88	114.37	14	3
4	A	396	PX4	O6-C9-C10	2.47	114.12	123.78	1	1
4	A	431	PX4	C29-C28-C27	2.47	101.88	114.37	4	1
4	A	397	PX4	C25-C24-C23	2.47	104.65	113.69	2	3
4	A	398	PX4	C15-C14-C13	2.47	101.89	114.37	20	1
4	A	426	PX4	C11-C10-C9	2.47	104.64	113.69	10	2
4	A	357	PX4	C14-C13-C12	2.47	101.89	114.37	5	3
4	A	371	PX4	C17-C16-C15	2.47	101.89	114.37	1	1
4	A	307	PX4	C12-C11-C10	2.47	104.07	113.13	10	2
4	A	311	PX4	C13-C12-C11	2.47	101.90	114.37	9	2
4	A	343	PX4	C8-O5-C9	2.47	108.10	117.12	9	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	403	PX4	C26-C25-C24	2.47	122.19	113.13	1	1
4	A	390	PX4	C12-C11-C10	2.47	104.06	113.13	2	2
4	A	426	PX4	C20-C19-C18	2.47	101.90	114.37	2	1
4	A	430	PX4	O3-C1-C2	2.47	121.52	109.65	13	3
4	A	328	PX4	C17-C16-C15	2.46	101.91	114.37	14	3
4	A	341	PX4	C11-C10-C9	2.47	104.66	113.69	16	3
4	A	356	PX4	O1-P1-O4	2.46	118.74	107.57	1	5
4	A	379	PX4	C13-C12-C11	2.47	101.91	114.37	20	1
4	A	305	PX4	C4-N1-C2	2.46	119.70	109.91	8	1
4	A	306	PX4	C16-C15-C14	2.46	101.92	114.37	17	1
4	A	312	PX4	C20-C19-C18	2.46	101.92	114.37	1	1
4	A	332	PX4	C17-C16-C15	2.46	101.92	114.37	4	1
4	A	355	PX4	C32-C31-C30	2.46	101.91	114.37	16	4
4	A	411	PX4	C14-C13-C12	2.46	101.91	114.37	15	1
4	A	419	PX4	C14-C13-C12	2.46	101.91	114.37	17	2
4	A	401	PX4	C25-C24-C23	2.46	104.67	113.69	15	3
4	A	423	PX4	O3-C1-C2	2.46	121.50	109.65	12	1
4	A	339	PX4	C25-C24-C23	2.46	104.67	113.69	8	2
4	A	355	PX4	O3-P1-O2	2.46	99.17	108.94	3	3
4	A	319	PX4	C17-C16-C15	2.46	101.93	114.37	16	1
4	A	356	PX4	C14-C13-C12	2.46	101.93	114.37	1	2
4	A	391	PX4	C18-C17-C16	2.46	101.92	114.37	10	1
4	A	318	PX4	C4-N1-C2	2.46	119.68	109.91	3	3
4	A	312	PX4	C27-C26-C25	2.46	101.94	114.37	19	1
4	A	332	PX4	O3-P1-O2	2.46	99.19	108.94	13	3
4	A	349	PX4	O1-P1-O3	2.46	118.72	107.57	10	3
4	A	319	PX4	C13-C12-C11	2.46	101.94	114.37	5	4
4	A	319	PX4	C11-C10-C9	2.46	104.69	113.69	2	1
4	A	348	PX4	C29-C28-C27	2.46	101.94	114.37	15	4
4	A	350	PX4	C30-C29-C28	2.46	101.94	114.37	9	2
4	A	387	PX4	C19-C18-C17	2.46	101.94	114.37	3	4
4	A	423	PX4	O1-P1-O3	2.46	96.42	107.57	4	2
4	A	332	PX4	O1-P1-O3	2.46	96.43	107.57	3	1
4	A	378	PX4	C30-C29-C28	2.46	101.95	114.37	18	1
4	A	393	PX4	C13-C12-C11	2.46	101.94	114.37	17	1
4	A	326	PX4	O3-P1-O2	2.46	99.20	108.94	16	4
4	A	348	PX4	C33-C32-C31	2.46	101.95	114.37	19	3
4	A	375	PX4	C27-C26-C25	2.46	101.95	114.37	19	4
4	A	350	PX4	O3-C1-C2	2.45	121.46	109.65	11	3
4	A	364	PX4	O6-C9-C10	2.46	114.18	123.78	13	1
4	A	414	PX4	O4-P1-O2	2.46	118.67	108.94	14	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	421	PX4	C11-C10-C9	2.46	104.70	113.69	1	3
4	A	318	PX4	O3-C1-C2	2.45	121.45	109.65	2	2
4	A	305	PX4	C7-O7-C23	2.45	123.67	117.80	8	2
4	A	312	PX4	C15-C14-C13	2.45	101.97	114.37	19	2
4	A	354	PX4	O5-C9-C10	2.45	119.31	111.83	18	3
4	A	418	PX4	C16-C15-C14	2.45	101.97	114.37	2	3
4	A	365	PX4	C13-C12-C11	2.45	101.97	114.37	4	2
4	A	335	PX4	C12-C11-C10	2.45	104.12	113.13	3	3
4	A	354	PX4	C8-O5-C9	2.45	108.16	117.12	12	4
4	A	358	PX4	O1-P1-O4	2.45	118.67	107.57	15	1
4	A	358	PX4	C34-C33-C32	2.45	101.99	114.37	13	4
4	A	360	PX4	C13-C12-C11	2.45	101.99	114.37	7	2
4	A	414	PX4	C32-C31-C30	2.45	101.98	114.37	9	2
4	A	401	PX4	O3-C1-C2	2.45	121.43	109.65	9	6
4	A	417	PX4	C4-N1-C3	2.45	102.54	108.98	12	3
4	A	307	PX4	O1-P1-O3	2.45	96.47	107.57	12	2
4	A	342	PX4	C25-C24-C23	2.45	104.72	113.69	5	3
4	A	375	PX4	C5-N1-C2	2.45	119.64	109.91	14	1
4	A	378	PX4	O1-P1-O3	2.45	96.47	107.57	19	2
4	A	413	PX4	C4-N1-C2	2.45	119.64	109.91	8	2
4	A	431	PX4	C8-O5-C9	2.45	108.17	117.12	10	5
4	A	309	PX4	O3-C1-C2	2.45	121.42	109.65	17	2
4	A	346	PX4	C11-C10-C9	2.45	104.73	113.69	13	2
4	A	354	PX4	C34-C33-C32	2.45	102.00	114.37	12	2
4	A	357	PX4	C5-N1-C2	2.45	119.64	109.91	3	2
4	A	358	PX4	O4-P1-O2	2.45	118.63	108.94	9	3
4	A	369	PX4	C5-N1-C3	2.45	115.40	108.98	8	4
4	A	403	PX4	C4-N1-C2	2.45	119.63	109.91	15	2
4	A	409	PX4	C29-C28-C27	2.45	102.00	114.37	19	1
4	A	396	PX4	C15-C14-C13	2.45	102.00	114.37	10	4
4	A	430	PX4	C27-C26-C25	2.45	102.00	114.37	8	1
4	A	307	PX4	C5-N1-C2	2.44	100.20	109.91	3	2
4	A	312	PX4	C34-C33-C32	2.44	102.01	114.37	1	2
4	A	315	PX4	C14-C13-C12	2.44	102.01	114.37	20	2
4	A	322	PX4	C30-C29-C28	2.44	102.01	114.37	20	2
4	A	406	PX4	C18-C17-C16	2.44	102.01	114.37	15	1
4	A	396	PX4	C34-C33-C32	2.44	102.02	114.37	19	4
4	A	398	PX4	C5-N1-C3	2.44	102.56	108.98	2	5
4	A	424	PX4	C31-C30-C29	2.44	102.01	114.37	5	3
4	A	317	PX4	C13-C12-C11	2.44	102.03	114.37	5	1
4	A	366	PX4	C13-C12-C11	2.44	102.02	114.37	13	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	345	PX4	C14-C13-C12	2.44	102.03	114.37	9	3
4	A	325	PX4	C5-N1-C2	2.44	100.21	109.91	16	1
4	A	348	PX4	C20-C19-C18	2.44	102.03	114.37	9	1
4	A	412	PX4	C28-C27-C26	2.44	102.03	114.37	14	1
4	A	365	PX4	O1-P1-O4	2.44	118.62	107.57	5	4
4	A	400	PX4	C17-C16-C15	2.44	102.04	114.37	8	3
4	A	363	PX4	C34-C33-C32	2.44	102.05	114.37	13	1
4	A	323	PX4	C12-C11-C10	2.44	104.18	113.13	6	1
4	A	337	PX4	O4-P1-O2	2.44	118.59	108.94	7	1
4	A	353	PX4	C14-C13-C12	2.44	102.06	114.37	2	1
4	A	355	PX4	O1-P1-O4	2.44	118.61	107.57	12	2
4	A	361	PX4	C31-C30-C29	2.44	102.05	114.37	14	3
4	A	407	PX4	C3-N1-C2	2.44	100.23	109.91	6	3
4	A	334	PX4	C3-N1-C2	2.43	119.59	109.91	13	1
4	A	336	PX4	C13-C12-C11	2.43	126.67	114.37	17	4
4	A	384	PX4	O3-P1-O2	2.43	99.28	108.94	20	3
4	A	400	PX4	C5-N1-C4	2.43	115.37	108.98	15	4
4	A	371	PX4	C8-O5-C9	2.43	108.22	117.12	16	3
4	A	373	PX4	C8-O5-C9	2.43	108.22	117.12	20	1
4	A	409	PX4	O1-P1-O3	2.43	118.60	107.57	15	2
4	A	327	PX4	C16-C15-C14	2.43	102.08	114.37	17	4
4	A	360	PX4	C14-C13-C12	2.43	102.07	114.37	11	1
4	A	423	PX4	C30-C29-C28	2.43	102.07	114.37	17	1
4	A	368	PX4	C5-N1-C2	2.43	100.24	109.91	13	3
4	A	383	PX4	C3-N1-C2	2.43	119.58	109.91	16	3
4	A	327	PX4	O4-P1-O2	2.43	99.30	108.94	5	2
4	A	421	PX4	O3-C1-C2	2.43	121.35	109.65	12	2
4	A	428	PX4	C32-C31-C30	2.43	102.08	114.37	6	2
4	A	306	PX4	O1-P1-O3	2.43	96.55	107.57	5	4
4	A	320	PX4	O4-P1-O2	2.43	118.56	108.94	19	2
4	A	332	PX4	O6-C9-C10	2.43	114.28	123.78	9	3
4	A	337	PX4	C13-C12-C11	2.43	102.09	114.37	5	2
4	A	368	PX4	C8-O5-C9	2.43	108.23	117.12	20	3
4	A	338	PX4	C33-C32-C31	2.43	102.09	114.37	17	2
4	A	348	PX4	C31-C30-C29	2.43	102.09	114.37	11	4
4	A	327	PX4	C3-N1-C2	2.43	119.56	109.91	14	2
4	A	354	PX4	C29-C28-C27	2.43	102.09	114.37	1	4
4	A	368	PX4	O3-C1-C2	2.43	121.34	109.65	17	1
4	A	373	PX4	C27-C26-C25	2.43	102.09	114.37	20	3
4	A	381	PX4	O8-C23-C24	2.43	114.28	123.78	1	2
4	A	385	PX4	C5-N1-C4	2.43	102.60	108.98	17	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	357	PX4	C18-C17-C16	2.43	102.10	114.37	3	1
4	A	394	PX4	O1-P1-O4	2.43	118.57	107.57	10	1
4	A	359	PX4	C34-C33-C32	2.43	102.11	114.37	10	2
4	A	429	PX4	O1-P1-O3	2.43	96.57	107.57	5	1
4	A	310	PX4	C4-N1-C2	2.42	119.55	109.91	16	4
4	A	370	PX4	C32-C31-C30	2.42	102.11	114.37	13	3
4	A	393	PX4	C18-C17-C16	2.42	102.12	114.37	5	1
4	A	398	PX4	C12-C11-C10	2.42	104.23	113.13	11	1
4	A	424	PX4	C17-C16-C15	2.42	102.12	114.37	16	2
4	A	309	PX4	C20-C19-C18	2.42	102.14	114.37	2	2
4	A	324	PX4	C28-C27-C26	2.42	102.13	114.37	10	1
4	A	336	PX4	C29-C28-C27	2.42	102.13	114.37	8	1
4	A	340	PX4	C5-N1-C2	2.42	119.53	109.91	13	2
4	A	404	PX4	C11-C10-C9	2.42	104.82	113.69	7	3
4	A	378	PX4	C14-C13-C12	2.42	102.13	114.37	15	1
4	A	425	PX4	C3-N1-C2	2.42	100.28	109.91	9	2
4	A	429	PX4	C26-C25-C24	2.42	104.23	113.13	1	1
4	A	344	PX4	C12-C11-C10	2.42	104.23	113.13	6	3
4	A	379	PX4	O3-C1-C2	2.42	121.30	109.65	11	3
4	A	396	PX4	C28-C27-C26	2.42	102.13	114.37	11	2
4	A	315	PX4	C5-N1-C2	2.42	119.53	109.91	16	2
4	A	369	PX4	C11-C10-C9	2.42	104.83	113.69	17	2
4	A	325	PX4	C26-C25-C24	2.42	104.24	113.13	16	4
4	A	395	PX4	C14-C13-C12	2.42	102.14	114.37	11	1
4	A	314	PX4	O1-P1-O3	2.42	96.61	107.57	2	4
4	A	352	PX4	O5-C9-O6	2.42	117.58	123.63	8	2
4	A	353	PX4	C29-C28-C27	2.42	102.15	114.37	10	3
4	A	361	PX4	C13-C12-C11	2.42	102.15	114.37	20	1
4	A	400	PX4	C29-C28-C27	2.42	102.15	114.37	20	2
4	A	388	PX4	C5-N1-C2	2.42	119.52	109.91	3	2
4	A	390	PX4	C29-C28-C27	2.42	102.16	114.37	1	2
4	A	397	PX4	C17-C16-C15	2.42	102.15	114.37	16	1
4	A	418	PX4	O6-C9-C10	2.42	114.33	123.78	14	1
4	A	420	PX4	C16-C15-C14	2.42	102.15	114.37	14	4
4	A	431	PX4	C33-C32-C31	2.42	102.15	114.37	2	1
4	A	324	PX4	C32-C31-C30	2.42	102.16	114.37	4	1
4	A	338	PX4	O1-P1-O4	2.42	118.51	107.57	2	1
4	A	399	PX4	C27-C26-C25	2.42	102.16	114.37	19	2
4	A	369	PX4	C17-C16-C15	2.42	102.16	114.37	5	2
4	A	422	PX4	C29-C28-C27	2.42	102.16	114.37	10	2
4	A	373	PX4	C14-C13-C12	2.41	102.17	114.37	7	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	415	PX4	O1-P1-O3	2.41	96.62	107.57	1	3
4	A	426	PX4	C16-C15-C14	2.41	102.17	114.37	15	3
4	A	307	PX4	C17-C16-C15	2.41	102.18	114.37	20	2
4	A	310	PX4	O1-P1-O3	2.41	96.64	107.57	12	2
4	A	337	PX4	C3-N1-C2	2.41	119.50	109.91	2	2
4	A	402	PX4	O8-C23-C24	2.41	114.35	123.78	1	2
4	A	375	PX4	O4-P1-O2	2.41	118.49	108.94	9	2
4	A	409	PX4	C5-N1-C2	2.41	119.50	109.91	19	4
4	A	400	PX4	C20-C19-C18	2.41	102.19	114.37	14	1
4	A	428	PX4	C25-C24-C23	2.41	104.86	113.69	13	4
4	A	308	PX4	C4-N1-C3	2.41	115.31	108.98	18	3
4	A	351	PX4	O8-C23-C24	2.41	133.21	123.78	13	1
4	A	314	PX4	O3-C1-C2	2.41	121.24	109.65	19	1
4	A	399	PX4	O7-C23-O8	2.41	118.07	123.70	18	3
4	A	312	PX4	C31-C30-C29	2.41	102.19	114.37	17	2
4	A	337	PX4	C34-C33-C32	2.41	102.19	114.37	5	3
4	A	343	PX4	C15-C14-C13	2.41	102.19	114.37	5	1
4	A	373	PX4	C15-C14-C13	2.41	102.19	114.37	7	2
4	A	408	PX4	C5-N1-C2	2.41	119.49	109.91	18	1
4	A	391	PX4	C32-C31-C30	2.41	102.19	114.37	19	3
4	A	398	PX4	C28-C27-C26	2.41	102.19	114.37	11	3
4	A	417	PX4	O6-C9-C10	2.41	114.36	123.78	1	1
4	A	316	PX4	C13-C12-C11	2.41	102.20	114.37	20	1
4	A	354	PX4	C12-C11-C10	2.41	104.28	113.13	9	2
4	A	361	PX4	C12-C11-C10	2.41	104.28	113.13	10	2
4	A	409	PX4	C28-C27-C26	2.41	102.20	114.37	20	2
4	A	390	PX4	C13-C12-C11	2.41	102.20	114.37	12	3
4	A	428	PX4	O6-C9-C10	2.41	114.37	123.78	14	1
4	A	337	PX4	O3-C1-C2	2.40	121.22	109.65	2	2
4	A	339	PX4	C4-N1-C2	2.40	119.47	109.91	9	1
4	A	307	PX4	O3-C1-C2	2.40	121.22	109.65	6	3
4	A	323	PX4	C31-C30-C29	2.40	102.22	114.37	12	1
4	A	346	PX4	O1-P1-O3	2.40	96.67	107.57	10	1
4	A	351	PX4	C27-C26-C25	2.40	102.22	114.37	16	1
4	A	363	PX4	C13-C12-C11	2.40	102.22	114.37	16	1
4	A	377	PX4	O1-P1-O4	2.40	118.46	107.57	11	2
4	A	428	PX4	C3-N1-C2	2.40	100.35	109.91	4	5
4	A	379	PX4	C26-C25-C24	2.40	104.30	113.13	16	3
4	A	380	PX4	C25-C24-C23	2.40	104.89	113.69	8	2
4	A	423	PX4	C4-N1-C2	2.40	119.46	109.91	12	3
4	A	425	PX4	C28-C27-C26	2.40	102.22	114.37	15	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	316	PX4	C4-N1-C2	2.40	119.45	109.91	18	2
4	A	350	PX4	C26-C25-C24	2.40	104.30	113.13	10	1
4	A	313	PX4	C16-C15-C14	2.40	102.24	114.37	13	1
4	A	316	PX4	C12-C11-C10	2.40	121.94	113.13	13	1
4	A	349	PX4	C20-C19-C18	2.40	102.24	114.37	4	2
4	A	403	PX4	C21-C20-C19	2.40	94.19	115.25	6	1
4	A	376	PX4	C17-C16-C15	2.40	102.24	114.37	3	1
4	A	380	PX4	C13-C12-C11	2.40	102.23	114.37	12	2
4	A	387	PX4	O1-P1-O4	2.40	118.45	107.57	18	2
4	A	394	PX4	C18-C17-C16	2.40	102.23	114.37	8	1
4	A	417	PX4	O3-P1-O2	2.40	99.42	108.94	17	2
4	A	340	PX4	C34-C33-C32	2.40	102.24	114.37	20	1
4	A	360	PX4	C4-N1-C2	2.40	100.37	109.91	7	1
4	A	387	PX4	C28-C27-C26	2.40	102.24	114.37	16	4
4	A	415	PX4	C31-C30-C29	2.40	102.24	114.37	14	2
4	A	347	PX4	O8-C23-C24	2.40	114.40	123.78	6	2
4	A	420	PX4	C12-C11-C10	2.40	104.32	113.13	20	2
4	A	330	PX4	C22-C21-C20	2.40	97.18	113.36	3	1
4	A	306	PX4	C18-C17-C16	2.40	102.26	114.37	12	2
4	A	311	PX4	C28-C27-C26	2.39	102.26	114.37	10	5
4	A	335	PX4	C29-C28-C27	2.39	102.26	114.37	9	3
4	A	358	PX4	C25-C24-C23	2.40	104.92	113.69	3	1
4	A	386	PX4	C33-C32-C31	2.40	102.26	114.37	11	2
4	A	394	PX4	C27-C26-C25	2.40	102.25	114.37	6	2
4	A	397	PX4	C27-C26-C25	2.40	102.26	114.37	11	2
4	A	421	PX4	C16-C15-C14	2.40	102.26	114.37	7	4
4	A	322	PX4	C26-C25-C24	2.39	104.33	113.13	19	3
4	A	329	PX4	C31-C30-C29	2.39	102.27	114.37	20	2
4	A	332	PX4	O4-P1-O2	2.39	118.42	108.94	8	2
4	A	349	PX4	O1-P1-O4	2.39	118.42	107.57	3	3
4	A	421	PX4	C25-C24-C23	2.40	104.92	113.69	4	2
4	A	410	PX4	C31-C30-C29	2.39	102.27	114.37	9	2
4	A	424	PX4	C13-C12-C11	2.40	102.26	114.37	16	1
4	A	325	PX4	C17-C16-C15	2.39	102.27	114.37	15	1
4	A	326	PX4	C15-C14-C13	2.39	102.28	114.37	12	2
4	A	363	PX4	O1-P1-O3	2.39	96.73	107.57	8	1
4	A	364	PX4	C11-C10-C9	2.39	104.93	113.69	4	4
4	A	382	PX4	C32-C31-C30	2.39	102.28	114.37	15	2
4	A	386	PX4	C15-C14-C13	2.39	102.28	114.37	15	3
4	A	414	PX4	C17-C16-C15	2.39	102.28	114.37	15	2
4	A	417	PX4	O8-C23-C24	2.39	114.42	123.78	17	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	355	PX4	C17-C16-C15	2.39	102.29	114.37	3	1
4	A	359	PX4	O6-C9-C10	2.39	114.43	123.78	9	3
4	A	356	PX4	C28-C27-C26	2.39	102.29	114.37	13	1
4	A	367	PX4	C34-C33-C32	2.39	102.28	114.37	1	5
4	A	372	PX4	O1-P1-O3	2.39	96.73	107.57	2	3
4	A	391	PX4	C3-N1-C2	2.39	119.42	109.91	10	1
4	A	396	PX4	C16-C15-C14	2.39	102.29	114.37	11	2
4	A	420	PX4	C14-C13-C12	2.39	102.28	114.37	10	3
4	A	400	PX4	C4-N1-C2	2.39	119.41	109.91	12	1
4	A	369	PX4	C13-C12-C11	2.39	102.29	114.37	3	1
4	A	405	PX4	O3-C1-C2	2.39	121.15	109.65	11	2
4	A	418	PX4	C33-C32-C31	2.39	102.29	114.37	3	1
4	A	423	PX4	C26-C25-C24	2.39	104.35	113.13	10	3
4	A	314	PX4	C31-C30-C29	2.39	102.30	114.37	18	3
4	A	325	PX4	O7-C7-C8	2.39	116.91	108.34	8	5
4	A	327	PX4	C32-C31-C30	2.39	102.30	114.37	19	1
4	A	342	PX4	C13-C12-C11	2.39	102.30	114.37	7	3
4	A	370	PX4	C29-C28-C27	2.39	102.30	114.37	9	1
4	A	428	PX4	C5-N1-C2	2.39	119.41	109.91	2	3
4	A	356	PX4	C15-C14-C13	2.39	102.30	114.37	9	2
4	A	363	PX4	C25-C24-C23	2.39	104.95	113.69	6	1
4	A	405	PX4	C15-C14-C13	2.39	102.31	114.37	1	1
4	A	389	PX4	C5-N1-C2	2.39	119.40	109.91	5	3
4	A	347	PX4	C17-C16-C15	2.38	102.31	114.37	11	1
4	A	375	PX4	C29-C28-C27	2.38	102.31	114.37	14	1
4	A	404	PX4	C20-C19-C18	2.38	102.31	114.37	13	2
4	A	391	PX4	C30-C29-C28	2.38	102.31	114.37	19	2
4	A	354	PX4	C20-C19-C18	2.38	102.32	114.37	19	2
4	A	362	PX4	C34-C33-C32	2.38	102.32	114.37	18	2
4	A	366	PX4	C33-C32-C31	2.38	102.32	114.37	9	2
4	A	399	PX4	C25-C24-C23	2.38	122.43	113.69	6	1
4	A	341	PX4	C8-O5-C9	2.38	108.41	117.12	7	3
4	A	362	PX4	C25-C24-C23	2.38	104.97	113.69	18	5
4	A	367	PX4	C31-C30-C29	2.38	102.33	114.37	8	2
4	A	372	PX4	C32-C31-C30	2.38	102.32	114.37	14	2
4	A	378	PX4	O8-C23-C24	2.38	114.46	123.78	6	1
4	A	408	PX4	C32-C31-C30	2.38	102.32	114.37	6	1
4	A	418	PX4	C25-C24-C23	2.38	104.97	113.69	3	2
4	A	421	PX4	C4-N1-C3	2.38	102.72	108.98	2	1
4	A	361	PX4	C14-C13-C12	2.38	102.33	114.37	5	3
4	A	427	PX4	C5-N1-C2	2.38	119.38	109.91	2	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	338	PX4	C20-C19-C18	2.38	102.34	114.37	5	1
4	A	341	PX4	C27-C26-C25	2.38	102.34	114.37	6	2
4	A	342	PX4	C20-C19-C18	2.38	102.34	114.37	4	2
4	A	350	PX4	O8-C23-C24	2.38	114.48	123.78	15	2
4	A	402	PX4	C8-O5-C9	2.38	108.42	117.12	4	4
4	A	335	PX4	O3-C1-C2	2.38	121.09	109.65	8	3
4	A	390	PX4	C31-C30-C29	2.38	102.35	114.37	9	2
4	A	411	PX4	C33-C32-C31	2.38	102.34	114.37	6	2
4	A	417	PX4	C14-C13-C12	2.38	102.35	114.37	20	2
4	A	422	PX4	C36-C35-C34	2.38	97.30	113.36	9	1
4	A	375	PX4	C13-C12-C11	2.38	102.35	114.37	7	1
4	A	419	PX4	C34-C33-C32	2.38	102.35	114.37	16	1
4	A	331	PX4	O5-C9-O6	2.38	117.68	123.63	19	3
4	A	422	PX4	C28-C27-C26	2.38	102.35	114.37	6	1
4	A	349	PX4	O3-C1-C2	2.38	121.08	109.65	10	1
4	A	414	PX4	C19-C18-C17	2.38	102.36	114.37	12	2
4	A	406	PX4	C13-C12-C11	2.37	102.37	114.37	10	1
4	A	388	PX4	C5-N1-C3	2.37	102.74	108.98	18	3
4	A	414	PX4	C4-N1-C2	2.37	119.35	109.91	16	2
4	A	398	PX4	C20-C19-C18	2.37	102.36	114.37	10	4
4	A	423	PX4	C14-C13-C12	2.38	102.36	114.37	18	2
4	A	364	PX4	C28-C27-C26	2.37	102.37	114.37	5	1
4	A	385	PX4	C20-C19-C18	2.37	102.38	114.37	2	1
4	A	413	PX4	C31-C30-C29	2.37	102.38	114.37	12	2
4	A	397	PX4	C18-C17-C16	2.37	102.37	114.37	3	2
4	A	429	PX4	C16-C15-C14	2.37	102.37	114.37	15	1
4	A	430	PX4	C20-C19-C18	2.37	102.37	114.37	16	2
4	A	342	PX4	C8-O5-C9	2.37	108.45	117.12	3	1
4	A	388	PX4	O6-C9-C10	2.37	114.51	123.78	8	1
4	A	340	PX4	O7-C7-C6	2.37	116.85	108.34	5	5
4	A	370	PX4	O4-P1-O2	2.37	118.33	108.94	3	5
4	A	418	PX4	O1-P1-O3	2.37	96.82	107.57	12	1
4	A	319	PX4	C14-C13-C12	2.37	102.39	114.37	9	2
4	A	373	PX4	O8-C23-C24	2.37	114.52	123.78	13	2
4	A	374	PX4	C5-N1-C2	2.37	100.49	109.91	2	2
4	A	383	PX4	C17-C16-C15	2.37	102.39	114.37	18	2
4	A	385	PX4	C33-C32-C31	2.37	102.40	114.37	9	2
4	A	415	PX4	C4-N1-C2	2.37	100.49	109.91	20	3
4	A	420	PX4	C5-N1-C2	2.37	100.50	109.91	16	1
4	A	425	PX4	C18-C17-C16	2.37	102.40	114.37	15	1
4	A	426	PX4	C14-C13-C12	2.37	102.40	114.37	18	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	356	PX4	C4-N1-C2	2.37	119.32	109.91	3	3
4	A	376	PX4	C5-N1-C2	2.37	119.32	109.91	9	1
4	A	391	PX4	C8-O5-C9	2.37	108.47	117.12	6	4
4	A	431	PX4	C20-C19-C18	2.37	102.40	114.37	15	3
4	A	311	PX4	C26-C25-C24	2.36	104.44	113.13	10	3
4	A	311	PX4	C14-C13-C12	2.36	102.42	114.37	19	3
4	A	324	PX4	C3-N1-C2	2.37	100.51	109.91	4	2
4	A	332	PX4	C27-C26-C25	2.36	102.42	114.37	7	2
4	A	334	PX4	C29-C28-C27	2.36	102.42	114.37	19	4
4	A	336	PX4	O8-C23-C24	2.37	114.53	123.78	4	2
4	A	408	PX4	C28-C27-C26	2.37	102.41	114.37	14	2
4	A	365	PX4	C3-N1-C2	2.36	119.31	109.91	15	2
4	A	366	PX4	C18-C17-C16	2.36	102.42	114.37	2	2
4	A	333	PX4	C17-C16-C15	2.36	102.42	114.37	11	1
4	A	337	PX4	C20-C19-C18	2.36	102.42	114.37	19	3
4	A	392	PX4	O1-P1-O4	2.36	118.28	107.57	19	2
4	A	425	PX4	C30-C29-C28	2.36	102.42	114.37	18	1
4	A	370	PX4	C12-C11-C10	2.36	104.45	113.13	17	1
4	A	375	PX4	C20-C19-C18	2.36	102.44	114.37	17	1
4	A	382	PX4	C27-C26-C25	2.36	102.43	114.37	15	2
4	A	421	PX4	C8-O5-C9	2.36	108.49	117.12	20	2
4	A	379	PX4	C14-C13-C12	2.36	102.44	114.37	15	1
4	A	412	PX4	C19-C18-C17	2.36	102.44	114.37	1	1
4	A	416	PX4	C15-C14-C13	2.36	102.44	114.37	20	1
4	A	429	PX4	C5-N1-C2	2.36	119.29	109.91	16	3
4	A	306	PX4	C27-C26-C25	2.36	102.45	114.37	17	1
4	A	312	PX4	O6-C9-C10	2.36	114.56	123.78	12	3
4	A	315	PX4	O8-C23-C24	2.36	114.56	123.78	16	2
4	A	325	PX4	O1-P1-O3	2.36	96.88	107.57	19	3
4	A	335	PX4	C8-O5-C9	2.36	108.50	117.12	3	3
4	A	346	PX4	O8-C23-C24	2.36	114.56	123.78	14	1
4	A	401	PX4	C4-N1-C3	2.36	102.78	108.98	17	3
4	A	427	PX4	C34-C33-C32	2.36	102.45	114.37	18	1
4	A	322	PX4	C25-C24-C23	2.36	105.06	113.69	7	1
4	A	308	PX4	C17-C16-C15	2.36	102.46	114.37	15	1
4	A	328	PX4	C5-N1-C2	2.36	100.54	109.91	2	1
4	A	399	PX4	C34-C33-C32	2.35	102.46	114.37	11	2
4	A	374	PX4	O4-P1-O2	2.36	118.27	108.94	20	2
4	A	402	PX4	O1-P1-O3	2.35	96.89	107.57	17	3
4	A	381	PX4	C1-C2-N1	2.36	123.38	115.82	7	2
4	A	412	PX4	O3-C1-C2	2.36	120.98	109.65	8	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	415	PX4	C12-C11-C10	2.35	104.47	113.13	2	4
4	A	323	PX4	C4-N1-C2	2.35	100.56	109.91	15	3
4	A	337	PX4	O1-P1-O3	2.35	96.90	107.57	2	4
4	A	344	PX4	C28-C27-C26	2.35	102.47	114.37	14	2
4	A	390	PX4	C30-C29-C28	2.35	102.47	114.37	6	3
4	A	377	PX4	C17-C16-C15	2.35	102.48	114.37	1	1
4	A	411	PX4	C28-C27-C26	2.35	102.48	114.37	4	3
4	A	417	PX4	C8-O5-C9	2.35	108.52	117.12	1	2
4	A	312	PX4	C8-O5-C9	2.35	108.53	117.12	6	2
4	A	316	PX4	C19-C18-C17	2.35	102.48	114.37	8	3
4	A	326	PX4	C11-C10-C9	2.35	105.08	113.69	14	1
4	A	328	PX4	C18-C17-C16	2.35	102.48	114.37	14	2
4	A	329	PX4	C11-C10-C9	2.35	105.08	113.69	10	1
4	A	351	PX4	C19-C18-C17	2.35	102.48	114.37	18	1
4	A	324	PX4	C5-N1-C3	2.35	102.80	108.98	14	3
4	A	373	PX4	O6-C9-C10	2.35	114.59	123.78	19	1
4	A	404	PX4	C32-C31-C30	2.35	102.48	114.37	6	1
4	A	310	PX4	C5-N1-C3	2.35	102.81	108.98	11	1
4	A	312	PX4	C14-C13-C12	2.35	102.50	114.37	13	2
4	A	328	PX4	C25-C24-C23	2.35	105.09	113.69	18	1
4	A	368	PX4	C31-C30-C29	2.35	102.50	114.37	3	1
4	A	386	PX4	O8-C23-C24	2.35	114.59	123.78	14	1
4	A	422	PX4	C15-C14-C13	2.35	102.50	114.37	19	2
4	A	430	PX4	C32-C31-C30	2.35	102.49	114.37	12	2
4	A	314	PX4	C28-C27-C26	2.35	102.50	114.37	2	1
4	A	345	PX4	C29-C28-C27	2.35	102.50	114.37	9	2
4	A	349	PX4	C31-C30-C29	2.35	102.50	114.37	7	1
4	A	415	PX4	C17-C16-C15	2.35	102.50	114.37	17	1
4	A	425	PX4	O3-C1-C2	2.35	120.95	109.65	17	1
4	A	344	PX4	C11-C10-C9	2.35	105.10	113.69	8	2
4	A	366	PX4	C8-O5-C9	2.35	108.54	117.12	11	1
4	A	405	PX4	O6-C9-C10	2.35	114.61	123.78	19	2
4	A	370	PX4	C13-C12-C11	2.35	102.51	114.37	2	1
4	A	381	PX4	C34-C33-C32	2.34	102.52	114.37	7	1
4	A	384	PX4	C29-C28-C27	2.35	102.51	114.37	14	2
4	A	313	PX4	C25-C24-C23	2.34	105.11	113.69	2	3
4	A	329	PX4	O8-C23-C24	2.34	114.61	123.78	5	1
4	A	344	PX4	C16-C15-C14	2.34	102.53	114.37	9	1
4	A	352	PX4	C34-C33-C32	2.34	102.52	114.37	9	1
4	A	363	PX4	C30-C29-C28	2.34	102.53	114.37	9	1
4	A	390	PX4	C32-C31-C30	2.34	102.53	114.37	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	394	PX4	C32-C31-C30	2.34	102.53	114.37	8	2
4	A	427	PX4	O3-P1-O2	2.34	99.65	108.94	17	4
4	A	431	PX4	C17-C16-C15	2.34	102.53	114.37	6	2
4	A	310	PX4	C19-C18-C17	2.34	102.53	114.37	10	3
4	A	310	PX4	C33-C32-C31	2.34	102.54	114.37	19	1
4	A	318	PX4	C3-N1-C2	2.34	119.21	109.91	12	2
4	A	364	PX4	C1-C2-N1	2.34	123.33	115.82	13	1
4	A	367	PX4	O5-C9-C10	2.34	118.97	111.83	6	5
4	A	405	PX4	C1-C2-N1	2.34	123.33	115.82	19	4
4	A	405	PX4	C25-C24-C23	2.34	105.12	113.69	15	3
4	A	379	PX4	C5-N1-C2	2.34	119.21	109.91	13	2
4	A	381	PX4	C31-C30-C29	2.34	102.54	114.37	12	2
4	A	423	PX4	C33-C32-C31	2.34	102.53	114.37	19	2
4	A	331	PX4	O6-C9-C10	2.34	114.63	123.78	5	1
4	A	427	PX4	O1-P1-O3	2.34	96.96	107.57	6	3
4	A	341	PX4	C20-C19-C18	2.34	102.54	114.37	13	1
4	A	318	PX4	C5-N1-C2	2.34	119.20	109.91	17	2
4	A	344	PX4	C31-C30-C29	2.34	102.55	114.37	19	3
4	A	386	PX4	C17-C16-C15	2.34	102.55	114.37	16	2
4	A	392	PX4	C19-C18-C17	2.34	102.55	114.37	6	2
4	A	330	PX4	C8-O5-C9	2.34	108.58	117.12	14	2
4	A	375	PX4	C28-C27-C26	2.34	102.56	114.37	15	4
4	A	330	PX4	C5-N1-C2	2.34	119.19	109.91	17	2
4	A	310	PX4	C17-C16-C15	2.33	102.57	114.37	16	1
4	A	312	PX4	C13-C12-C11	2.33	102.58	114.37	8	1
4	A	377	PX4	C11-C10-C9	2.33	105.15	113.69	12	1
4	A	410	PX4	C20-C19-C18	2.33	102.57	114.37	12	3
4	A	354	PX4	C25-C24-C23	2.33	105.15	113.69	17	3
4	A	306	PX4	C3-N1-C2	2.33	119.18	109.91	18	2
4	A	313	PX4	C30-C29-C28	2.33	102.58	114.37	9	2
4	A	354	PX4	O6-C9-C10	2.33	114.66	123.78	2	1
4	A	420	PX4	C18-C17-C16	2.33	102.58	114.37	3	3
4	A	421	PX4	C29-C28-C27	2.33	102.58	114.37	4	1
4	A	368	PX4	O8-C23-C24	2.33	114.66	123.78	7	2
4	A	313	PX4	O6-C9-C10	2.33	114.67	123.78	19	1
4	A	374	PX4	C8-O5-C9	2.33	108.60	117.12	1	2
4	A	378	PX4	C31-C30-C29	2.33	102.59	114.37	16	2
4	A	405	PX4	C29-C28-C27	2.33	102.59	114.37	2	2
4	A	406	PX4	C30-C29-C28	2.33	102.59	114.37	14	1
4	A	385	PX4	C4-N1-C2	2.33	119.17	109.91	6	1
4	A	388	PX4	C14-C13-C12	2.33	102.59	114.37	10	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	398	PX4	C4-N1-C2	2.33	119.17	109.91	12	1
4	A	423	PX4	C4-N1-C3	2.33	115.10	108.98	9	4
4	A	326	PX4	O6-C9-C10	2.33	132.89	123.78	16	2
4	A	323	PX4	C28-C27-C26	2.33	102.60	114.37	19	1
4	A	328	PX4	C32-C31-C30	2.33	102.60	114.37	5	1
4	A	336	PX4	C31-C30-C29	2.33	102.60	114.37	18	2
4	A	349	PX4	C14-C13-C12	2.33	102.60	114.37	6	1
4	A	416	PX4	C29-C28-C27	2.33	102.59	114.37	13	1
4	A	371	PX4	C13-C12-C11	2.33	102.61	114.37	20	1
4	A	375	PX4	C3-N1-C2	2.33	100.66	109.91	14	2
4	A	380	PX4	C12-C11-C10	2.33	104.58	113.13	13	4
4	A	409	PX4	C26-C25-C24	2.33	104.58	113.13	19	1
4	A	379	PX4	C18-C17-C16	2.32	102.62	114.37	16	2
4	A	398	PX4	C17-C16-C15	2.33	102.61	114.37	1	1
4	A	415	PX4	C32-C31-C30	2.33	102.61	114.37	5	1
4	A	326	PX4	C27-C26-C25	2.32	102.63	114.37	20	2
4	A	326	PX4	C30-C29-C28	2.32	102.63	114.37	15	1
4	A	333	PX4	C28-C27-C26	2.32	102.63	114.37	16	2
4	A	357	PX4	C25-C24-C23	2.32	105.18	113.69	18	2
4	A	384	PX4	C13-C12-C11	2.32	102.63	114.37	5	1
4	A	411	PX4	C30-C29-C28	2.32	102.63	114.37	20	2
4	A	323	PX4	C8-O5-C9	2.32	125.60	117.12	15	1
4	A	349	PX4	O8-C23-C24	2.32	114.70	123.78	5	1
4	A	400	PX4	O4-P1-O2	2.32	118.13	108.94	6	1
4	A	376	PX4	O6-C9-C10	2.32	114.70	123.78	18	1
4	A	308	PX4	C3-N1-C2	2.32	119.13	109.91	19	2
4	A	316	PX4	C3-N1-C2	2.32	119.13	109.91	11	1
4	A	417	PX4	C13-C12-C11	2.32	102.64	114.37	3	1
4	A	429	PX4	C20-C19-C18	2.32	102.65	114.37	6	2
4	A	429	PX4	C32-C31-C30	2.32	102.64	114.37	7	3
4	A	310	PX4	C25-C24-C23	2.32	122.18	113.69	7	4
4	A	334	PX4	C14-C13-C12	2.32	102.66	114.37	11	1
4	A	363	PX4	C5-N1-C4	2.32	102.89	108.98	10	3
4	A	384	PX4	O6-C9-C10	2.32	114.72	123.78	15	2
4	A	385	PX4	C11-C10-C9	2.32	105.20	113.69	1	5
4	A	430	PX4	O6-C9-C10	2.32	114.72	123.78	12	1
4	A	312	PX4	O1-P1-O3	2.32	97.07	107.57	7	1
4	A	332	PX4	C28-C27-C26	2.31	102.67	114.37	20	3
4	A	355	PX4	C18-C17-C16	2.32	102.67	114.37	20	1
4	A	396	PX4	C31-C30-C29	2.32	102.66	114.37	8	1
4	A	416	PX4	C13-C12-C11	2.32	102.67	114.37	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	422	PX4	C22-C21-C20	2.32	97.73	113.36	4	1
4	A	343	PX4	C18-C17-C16	2.31	126.06	114.37	8	1
4	A	402	PX4	C16-C15-C14	2.31	102.67	114.37	4	1
4	A	427	PX4	C16-C15-C14	2.31	102.67	114.37	8	3
4	A	308	PX4	C34-C33-C32	2.31	102.68	114.37	12	2
4	A	321	PX4	O8-C23-C24	2.31	114.74	123.78	18	1
4	A	329	PX4	C15-C14-C13	2.31	102.68	114.37	10	1
4	A	334	PX4	C4-N1-C2	2.31	119.10	109.91	19	1
4	A	346	PX4	C15-C14-C13	2.31	102.68	114.37	18	3
4	A	352	PX4	O5-C9-C10	2.31	118.89	111.83	12	2
4	A	354	PX4	O1-P1-O4	2.31	118.05	107.57	15	2
4	A	371	PX4	C14-C13-C12	2.31	102.68	114.37	19	1
4	A	378	PX4	O3-C1-C2	2.31	120.78	109.65	7	2
4	A	409	PX4	C30-C29-C28	2.31	102.68	114.37	12	1
4	A	328	PX4	C20-C19-C18	2.31	102.69	114.37	9	1
4	A	392	PX4	C4-N1-C2	2.31	119.09	109.91	13	1
4	A	418	PX4	C29-C28-C27	2.31	102.69	114.37	5	3
4	A	305	PX4	O1-P1-O3	2.31	118.03	107.57	10	2
4	A	421	PX4	C27-C26-C25	2.31	102.70	114.37	14	5
4	A	333	PX4	C11-C10-C9	2.31	105.24	113.69	16	1
4	A	334	PX4	C36-C35-C34	2.31	97.79	113.36	16	1
4	A	336	PX4	C11-C10-C9	2.31	105.24	113.69	17	1
4	A	364	PX4	O4-P1-O2	2.31	118.08	108.94	1	1
4	A	400	PX4	O3-P1-O2	2.31	99.79	108.94	6	2
4	A	372	PX4	C15-C14-C13	2.31	102.71	114.37	18	1
4	A	402	PX4	C26-C25-C24	2.31	104.65	113.13	1	3
4	A	349	PX4	C27-C26-C25	2.31	102.71	114.37	12	2
4	A	400	PX4	O6-C9-C10	2.30	114.77	123.78	9	2
4	A	401	PX4	C7-O7-C23	2.30	123.31	117.80	19	3
4	A	378	PX4	C13-C12-C11	2.30	102.72	114.37	19	3
4	A	414	PX4	C31-C30-C29	2.31	102.71	114.37	4	3
4	A	430	PX4	O4-P1-O2	2.31	118.07	108.94	6	3
4	A	379	PX4	C25-C24-C23	2.30	105.25	113.69	18	5
4	A	352	PX4	C5-N1-C4	2.30	115.02	108.98	17	5
4	A	372	PX4	O1-P1-O4	2.30	118.00	107.57	7	3
4	A	385	PX4	C31-C30-C29	2.30	102.73	114.37	15	1
4	A	421	PX4	C18-C17-C16	2.30	102.73	114.37	16	2
4	A	399	PX4	C8-O5-C9	2.30	125.53	117.12	11	2
4	A	423	PX4	C12-C11-C10	2.30	104.67	113.13	9	1
4	A	318	PX4	O6-C9-C10	2.30	114.79	123.78	13	1
4	A	331	PX4	C31-C30-C29	2.30	102.74	114.37	14	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	410	PX4	O3-C1-C2	2.30	120.72	109.65	16	2
4	A	429	PX4	C11-C10-C9	2.30	105.26	113.69	10	1
4	A	397	PX4	O6-C9-C10	2.30	114.79	123.78	9	1
4	A	338	PX4	C14-C13-C12	2.30	102.75	114.37	4	4
4	A	342	PX4	O3-C1-C2	2.30	120.71	109.65	12	4
4	A	422	PX4	C32-C31-C30	2.30	102.75	114.37	8	1
4	A	349	PX4	O4-P1-O2	2.30	99.83	108.94	1	2
4	A	345	PX4	O1-P1-O3	2.30	97.16	107.57	6	1
4	A	368	PX4	C25-C24-C23	2.30	105.28	113.69	3	1
4	A	369	PX4	O3-C1-C2	2.30	120.70	109.65	12	2
4	A	335	PX4	C16-C15-C14	2.29	102.77	114.37	3	1
4	A	345	PX4	O6-C9-C10	2.30	114.80	123.78	17	1
4	A	371	PX4	C18-C17-C16	2.30	102.76	114.37	9	1
4	A	377	PX4	C34-C33-C32	2.30	102.76	114.37	10	2
4	A	381	PX4	C16-C15-C14	2.30	102.76	114.37	19	2
4	A	349	PX4	C11-C10-C9	2.29	105.29	113.69	2	1
4	A	349	PX4	C13-C12-C11	2.29	102.77	114.37	12	2
4	A	400	PX4	O1-P1-O3	2.29	97.17	107.57	14	3
4	A	382	PX4	C12-C11-C10	2.29	104.70	113.13	12	3
4	A	385	PX4	C17-C16-C15	2.29	102.77	114.37	5	1
4	A	389	PX4	O5-C9-O6	2.29	117.89	123.63	1	3
4	A	394	PX4	C4-N1-C2	2.30	119.03	109.91	12	1
4	A	423	PX4	C25-C24-C23	2.30	105.28	113.69	18	1
4	A	352	PX4	O1-P1-O4	2.29	117.96	107.57	12	1
4	A	382	PX4	C31-C30-C29	2.29	102.78	114.37	1	2
4	A	386	PX4	C29-C28-C27	2.29	102.77	114.37	12	1
4	A	371	PX4	C34-C33-C32	2.29	102.78	114.37	3	1
4	A	397	PX4	C31-C30-C29	2.29	102.78	114.37	6	1
4	A	424	PX4	C4-N1-C2	2.29	100.80	109.91	9	1
4	A	325	PX4	C28-C27-C26	2.29	102.78	114.37	15	3
4	A	368	PX4	C28-C27-C26	2.29	102.78	114.37	18	4
4	A	324	PX4	O4-P1-O2	2.29	99.86	108.94	14	1
4	A	332	PX4	C32-C31-C30	2.29	102.79	114.37	19	3
4	A	401	PX4	C32-C31-C30	2.29	102.79	114.37	10	2
4	A	404	PX4	C19-C18-C17	2.29	102.79	114.37	1	2
4	A	385	PX4	C5-N1-C2	2.29	119.02	109.91	10	1
4	A	398	PX4	C13-C12-C11	2.29	102.79	114.37	16	2
4	A	415	PX4	O3-C1-C2	2.29	120.67	109.65	16	2
4	A	342	PX4	C33-C32-C31	2.29	102.80	114.37	3	2
4	A	344	PX4	C13-C12-C11	2.29	102.80	114.37	16	1
4	A	348	PX4	C12-C11-C10	2.29	104.72	113.13	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	361	PX4	C30-C29-C28	2.29	102.80	114.37	11	3
4	A	389	PX4	C27-C26-C25	2.29	102.80	114.37	2	2
4	A	424	PX4	C27-C26-C25	2.29	102.80	114.37	6	1
4	A	430	PX4	C5-N1-C2	2.29	119.01	109.91	5	2
4	A	321	PX4	C19-C18-C17	2.29	102.81	114.37	9	2
4	A	334	PX4	C19-C18-C17	2.29	102.81	114.37	1	1
4	A	317	PX4	C33-C32-C31	2.29	102.81	114.37	13	3
4	A	349	PX4	C34-C33-C32	2.29	102.81	114.37	8	2
4	A	379	PX4	C31-C30-C29	2.29	102.81	114.37	18	2
4	A	349	PX4	C15-C14-C13	2.28	102.82	114.37	8	3
4	A	353	PX4	C3-N1-C2	2.28	100.83	109.91	1	2
4	A	337	PX4	C28-C27-C26	2.28	102.83	114.37	6	1
4	A	355	PX4	O3-C1-C2	2.28	120.64	109.65	10	3
4	A	357	PX4	C12-C11-C10	2.28	104.73	113.13	20	3
4	A	368	PX4	O1-P1-O4	2.28	117.92	107.57	11	3
4	A	400	PX4	C13-C12-C11	2.29	102.82	114.37	18	1
4	A	373	PX4	C5-N1-C2	2.28	118.99	109.91	2	1
4	A	373	PX4	C20-C19-C18	2.28	102.82	114.37	8	2
4	A	403	PX4	C13-C12-C11	2.28	102.82	114.37	15	1
4	A	315	PX4	C22-C21-C20	2.28	97.95	113.36	1	2
4	A	316	PX4	C32-C31-C30	2.28	102.83	114.37	9	1
4	A	402	PX4	C5-N1-C4	2.28	102.98	108.98	14	1
4	A	383	PX4	C8-O5-C9	2.28	108.77	117.12	6	3
4	A	386	PX4	C28-C27-C26	2.28	102.83	114.37	15	1
4	A	350	PX4	C18-C17-C16	2.28	102.84	114.37	12	3
4	A	357	PX4	C15-C14-C13	2.28	102.84	114.37	18	1
4	A	367	PX4	C17-C16-C15	2.28	102.84	114.37	13	2
4	A	386	PX4	C34-C33-C32	2.28	102.83	114.37	17	2
4	A	423	PX4	C13-C12-C11	2.28	102.83	114.37	10	1
4	A	419	PX4	C3-N1-C2	2.28	100.84	109.91	10	3
4	A	356	PX4	C13-C12-C11	2.28	102.85	114.37	10	1
4	A	330	PX4	O3-C1-C2	2.28	120.61	109.65	7	3
4	A	372	PX4	O3-P1-O2	2.28	99.91	108.94	17	2
4	A	375	PX4	C14-C13-C12	2.28	102.85	114.37	19	2
4	A	334	PX4	C25-C24-C23	2.28	105.35	113.69	2	2
4	A	315	PX4	O1-P1-O4	2.28	117.88	107.57	11	2
4	A	354	PX4	O8-C23-C24	2.28	114.88	123.78	13	2
4	A	370	PX4	C20-C19-C18	2.28	102.86	114.37	15	1
4	A	401	PX4	C33-C32-C31	2.28	102.86	114.37	1	3
4	A	421	PX4	C13-C12-C11	2.28	102.86	114.37	14	2
4	A	431	PX4	C19-C18-C17	2.28	102.86	114.37	2	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	378	PX4	C20-C19-C18	2.27	102.87	114.37	7	1
4	A	406	PX4	C32-C31-C30	2.28	102.87	114.37	4	2
4	A	386	PX4	C5-N1-C2	2.27	118.95	109.91	16	1
4	A	412	PX4	C20-C19-C18	2.27	102.87	114.37	20	2
4	A	357	PX4	C11-C10-C9	2.27	105.36	113.69	7	2
4	A	368	PX4	C33-C32-C31	2.27	102.88	114.37	4	1
4	A	368	PX4	C36-C35-C34	2.27	98.03	113.36	18	1
4	A	372	PX4	C20-C19-C18	2.27	102.89	114.37	13	1
4	A	385	PX4	C32-C31-C30	2.27	102.89	114.37	20	2
4	A	409	PX4	C11-C10-C9	2.27	105.37	113.69	17	2
4	A	391	PX4	C20-C19-C18	2.27	102.89	114.37	10	1
4	A	395	PX4	C30-C29-C28	2.27	102.89	114.37	2	1
4	A	416	PX4	O3-C1-C2	2.27	120.58	109.65	14	3
4	A	423	PX4	O8-C23-C24	2.27	114.90	123.78	1	1
4	A	318	PX4	C20-C19-C18	2.27	102.89	114.37	15	1
4	A	321	PX4	C20-C19-C18	2.27	102.89	114.37	2	2
4	A	309	PX4	C13-C12-C11	2.27	102.90	114.37	7	2
4	A	309	PX4	C30-C29-C28	2.27	102.89	114.37	19	1
4	A	337	PX4	C8-O5-C9	2.27	108.82	117.12	3	1
4	A	338	PX4	C13-C12-C11	2.27	102.89	114.37	11	3
4	A	420	PX4	C33-C32-C31	2.27	102.89	114.37	18	3
4	A	372	PX4	C8-O5-C9	2.27	108.82	117.12	3	1
4	A	404	PX4	C31-C30-C29	2.27	102.90	114.37	10	1
4	A	367	PX4	C22-C21-C20	2.27	98.05	113.36	17	1
4	A	389	PX4	O6-C9-C10	2.27	114.91	123.78	7	1
4	A	402	PX4	C5-N1-C2	2.27	100.90	109.91	7	2
4	A	392	PX4	C11-C10-C9	2.27	105.38	113.69	15	2
4	A	339	PX4	C19-C18-C17	2.27	102.92	114.37	5	1
4	A	357	PX4	O1-P1-O4	2.27	117.84	107.57	13	1
4	A	362	PX4	C13-C12-C11	2.27	102.91	114.37	6	1
4	A	395	PX4	C32-C31-C30	2.27	102.91	114.37	1	1
4	A	373	PX4	C19-C18-C17	2.27	102.91	114.37	15	4
4	A	323	PX4	C5-N1-C2	2.26	118.91	109.91	18	2
4	A	374	PX4	C20-C19-C18	2.27	102.92	114.37	5	5
4	A	403	PX4	O4-P1-O2	2.27	117.91	108.94	19	3
4	A	429	PX4	C31-C30-C29	2.27	102.92	114.37	19	1
4	A	351	PX4	C4-N1-C2	2.26	100.91	109.91	16	1
4	A	429	PX4	C4-N1-C2	2.26	100.91	109.91	9	4
4	A	421	PX4	O8-C23-C24	2.26	114.93	123.78	13	1
4	A	347	PX4	C27-C26-C25	2.26	102.94	114.37	19	3
4	A	358	PX4	C13-C12-C11	2.26	102.94	114.37	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	367	PX4	O3-C1-C2	2.26	120.53	109.65	13	1
4	A	373	PX4	O3-C1-C2	2.26	120.52	109.65	3	1
4	A	316	PX4	C31-C30-C29	2.26	102.95	114.37	8	3
4	A	351	PX4	C17-C16-C15	2.26	102.95	114.37	2	2
4	A	353	PX4	C32-C31-C30	2.26	102.95	114.37	17	2
4	A	352	PX4	C19-C18-C17	2.26	102.96	114.37	5	2
4	A	357	PX4	C28-C27-C26	2.26	102.95	114.37	19	4
4	A	415	PX4	C15-C14-C13	2.26	102.96	114.37	6	3
4	A	315	PX4	C26-C25-C24	2.26	121.42	113.13	9	4
4	A	334	PX4	C30-C29-C28	2.26	102.96	114.37	10	3
4	A	355	PX4	O6-C9-C10	2.26	114.96	123.78	7	2
4	A	370	PX4	C15-C14-C13	2.26	102.96	114.37	19	2
4	A	388	PX4	O1-P1-O4	2.26	117.79	107.57	16	4
4	A	309	PX4	O1-P1-O4	2.25	117.78	107.57	17	1
4	A	333	PX4	O5-C9-O6	2.25	117.99	123.63	1	2
4	A	411	PX4	C18-C17-C16	2.26	102.97	114.37	16	1
4	A	306	PX4	C20-C19-C18	2.25	102.98	114.37	18	2
4	A	316	PX4	C27-C26-C25	2.25	102.98	114.37	1	2
4	A	341	PX4	C32-C31-C30	2.25	102.98	114.37	8	1
4	A	343	PX4	C13-C12-C11	2.25	102.98	114.37	14	1
4	A	349	PX4	C28-C27-C26	2.25	102.98	114.37	1	1
4	A	364	PX4	C26-C25-C24	2.25	104.85	113.13	2	3
4	A	404	PX4	C29-C28-C27	2.25	102.98	114.37	1	2
4	A	405	PX4	C32-C31-C30	2.25	102.98	114.37	12	2
4	A	406	PX4	C19-C18-C17	2.25	102.98	114.37	1	2
4	A	418	PX4	C26-C25-C24	2.25	104.85	113.13	13	1
4	A	411	PX4	C27-C26-C25	2.25	102.98	114.37	8	1
4	A	419	PX4	C20-C19-C18	2.25	102.98	114.37	4	2
4	A	364	PX4	O8-C23-C24	2.25	114.98	123.78	17	1
4	A	393	PX4	C26-C25-C24	2.25	104.85	113.13	11	2
4	A	373	PX4	C4-N1-C2	2.25	118.86	109.91	12	1
4	A	417	PX4	C33-C32-C31	2.25	102.99	114.37	8	3
4	A	322	PX4	C32-C31-C30	2.25	103.00	114.37	10	1
4	A	429	PX4	C34-C33-C32	2.25	103.00	114.37	2	1
4	A	306	PX4	C22-C21-C20	2.25	98.19	113.36	5	1
4	A	319	PX4	C31-C30-C29	2.25	103.01	114.37	5	1
4	A	332	PX4	O8-C23-C24	2.25	114.99	123.78	14	1
4	A	340	PX4	C29-C28-C27	2.25	103.01	114.37	3	2
4	A	343	PX4	C34-C33-C32	2.25	103.01	114.37	19	3
4	A	355	PX4	C19-C18-C17	2.25	103.00	114.37	19	3
4	A	369	PX4	O6-C9-C10	2.25	114.99	123.78	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	371	PX4	C29-C28-C27	2.25	103.00	114.37	19	1
4	A	403	PX4	C17-C16-C15	2.25	103.01	114.37	11	1
4	A	387	PX4	C34-C33-C32	2.25	103.01	114.37	2	1
4	A	419	PX4	C15-C14-C13	2.25	103.00	114.37	6	2
4	A	364	PX4	C17-C16-C15	2.25	103.01	114.37	14	2
4	A	420	PX4	C15-C14-C13	2.25	103.01	114.37	13	2
4	A	421	PX4	C19-C18-C17	2.25	103.00	114.37	20	2
4	A	424	PX4	C25-C24-C23	2.25	105.46	113.69	2	1
4	A	308	PX4	O6-C9-C10	2.24	115.00	123.78	1	1
4	A	359	PX4	C12-C11-C10	2.24	104.88	113.13	11	2
4	A	366	PX4	C3-N1-C2	2.24	100.99	109.91	13	1
4	A	403	PX4	C31-C30-C29	2.24	103.02	114.37	14	2
4	A	416	PX4	C18-C17-C16	2.24	103.02	114.37	7	1
4	A	313	PX4	C28-C27-C26	2.24	103.04	114.37	5	2
4	A	340	PX4	C11-C10-C9	2.24	105.48	113.69	18	1
4	A	345	PX4	C20-C19-C18	2.24	103.03	114.37	14	5
4	A	383	PX4	C15-C14-C13	2.24	103.03	114.37	9	3
4	A	414	PX4	C16-C15-C14	2.24	103.03	114.37	16	1
4	A	419	PX4	O4-P1-O2	2.24	117.83	108.94	11	1
4	A	427	PX4	C32-C31-C30	2.24	103.03	114.37	5	1
4	A	379	PX4	C34-C33-C32	2.24	103.04	114.37	1	2
4	A	408	PX4	C4-N1-C2	2.24	118.82	109.91	5	1
4	A	409	PX4	C8-O5-C9	2.24	108.92	117.12	11	2
4	A	321	PX4	C33-C32-C31	2.24	103.04	114.37	9	2
4	A	345	PX4	C32-C31-C30	2.24	103.04	114.37	3	2
4	A	339	PX4	C13-C12-C11	2.24	103.05	114.37	6	3
4	A	346	PX4	C4-N1-C3	2.24	114.86	108.98	8	2
4	A	351	PX4	C31-C30-C29	2.24	103.04	114.37	16	2
4	A	355	PX4	C8-O5-C9	2.24	108.93	117.12	10	2
4	A	357	PX4	C17-C16-C15	2.24	103.04	114.37	17	1
4	A	362	PX4	C5-N1-C2	2.24	101.00	109.91	4	3
4	A	409	PX4	C33-C32-C31	2.24	103.04	114.37	16	1
4	A	333	PX4	C25-C24-C23	2.24	105.49	113.69	1	3
4	A	399	PX4	C20-C19-C18	2.24	103.05	114.37	6	2
4	A	342	PX4	C18-C17-C16	2.24	103.06	114.37	4	2
4	A	355	PX4	C15-C14-C13	2.24	103.06	114.37	7	1
4	A	406	PX4	C8-O5-C9	2.24	108.94	117.12	18	2
4	A	380	PX4	C28-C27-C26	2.24	103.06	114.37	9	1
4	A	410	PX4	C19-C18-C17	2.24	103.06	114.37	16	1
4	A	317	PX4	C32-C31-C30	2.24	103.07	114.37	12	1
4	A	308	PX4	C19-C18-C17	2.24	103.07	114.37	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	319	PX4	C25-C24-C23	2.24	105.50	113.69	2	2
4	A	363	PX4	O3-C1-C2	2.24	120.41	109.65	20	1
4	A	365	PX4	C34-C33-C32	2.24	103.06	114.37	15	1
4	A	369	PX4	C4-N1-C2	2.23	101.03	109.91	15	1
4	A	403	PX4	O8-C23-C24	2.24	115.04	123.78	13	2
4	A	418	PX4	C28-C27-C26	2.24	103.06	114.37	19	2
4	A	328	PX4	O1-P1-O3	2.23	97.44	107.57	17	2
4	A	350	PX4	O6-C9-C10	2.23	115.04	123.78	20	2
4	A	330	PX4	C13-C12-C11	2.23	103.08	114.37	7	1
4	A	410	PX4	C28-C27-C26	2.23	103.07	114.37	4	1
4	A	315	PX4	C34-C33-C32	2.23	103.08	114.37	11	1
4	A	375	PX4	C8-O5-C9	2.23	108.96	117.12	3	1
4	A	389	PX4	C29-C28-C27	2.23	103.08	114.37	20	2
4	A	326	PX4	C33-C32-C31	2.23	103.09	114.37	2	1
4	A	379	PX4	C30-C29-C28	2.23	103.09	114.37	9	2
4	A	425	PX4	C8-O5-C9	2.23	108.96	117.12	19	3
4	A	321	PX4	C11-C10-C9	2.23	105.53	113.69	5	2
4	A	328	PX4	C16-C15-C14	2.23	103.10	114.37	8	4
4	A	379	PX4	C4-N1-C2	2.23	118.78	109.91	9	1
4	A	415	PX4	C11-C10-C9	2.23	121.87	113.69	7	1
4	A	395	PX4	C4-N1-C2	2.23	101.05	109.91	13	1
4	A	418	PX4	O4-P1-O2	2.23	117.77	108.94	17	1
4	A	430	PX4	C16-C15-C14	2.23	103.10	114.37	6	1
4	A	431	PX4	C13-C12-C11	2.23	103.09	114.37	13	1
4	A	346	PX4	C8-O5-C9	2.23	108.97	117.12	3	1
4	A	400	PX4	O3-C1-C2	2.23	120.37	109.65	11	1
4	A	378	PX4	C17-C16-C15	2.23	103.10	114.37	19	1
4	A	319	PX4	C19-C18-C17	2.23	103.11	114.37	14	1
4	A	352	PX4	C16-C15-C14	2.23	103.11	114.37	14	1
4	A	405	PX4	C33-C32-C31	2.23	103.11	114.37	19	1
4	A	406	PX4	O3-C1-C2	2.23	120.36	109.65	7	1
4	A	383	PX4	C19-C18-C17	2.23	103.11	114.37	14	1
4	A	416	PX4	C8-O5-C9	2.23	108.97	117.12	9	2
4	A	393	PX4	C20-C19-C18	2.23	103.11	114.37	12	1
4	A	358	PX4	C11-C10-C9	2.23	121.85	113.69	7	1
4	A	371	PX4	C27-C26-C25	2.22	103.12	114.37	17	1
4	A	408	PX4	C18-C17-C16	2.22	103.12	114.37	13	1
4	A	385	PX4	C14-C13-C12	2.23	103.12	114.37	4	2
4	A	413	PX4	C29-C28-C27	2.23	103.11	114.37	11	1
4	A	343	PX4	O6-C9-C10	2.22	132.48	123.78	4	3
4	A	365	PX4	C20-C19-C18	2.22	103.12	114.37	20	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	398	PX4	C3-N1-C2	2.22	118.75	109.91	15	1
4	A	421	PX4	O1-P1-O4	2.22	117.65	107.57	7	2
4	A	378	PX4	C34-C33-C32	2.22	103.13	114.37	2	2
4	A	357	PX4	O1-P1-O3	2.22	117.64	107.57	9	1
4	A	339	PX4	O1-P1-O3	2.22	117.63	107.57	20	1
4	A	340	PX4	C17-C16-C15	2.22	103.14	114.37	18	1
4	A	344	PX4	C27-C26-C25	2.22	103.14	114.37	17	2
4	A	401	PX4	C18-C17-C16	2.22	103.14	114.37	9	4
4	A	391	PX4	C31-C30-C29	2.22	103.14	114.37	18	1
4	A	412	PX4	C26-C25-C24	2.22	121.29	113.13	15	1
4	A	395	PX4	C29-C28-C27	2.22	103.14	114.37	6	1
4	A	418	PX4	C15-C14-C13	2.22	103.13	114.37	15	1
4	A	311	PX4	C25-C24-C23	2.22	105.56	113.69	14	1
4	A	367	PX4	C3-N1-C2	2.22	118.74	109.91	14	2
4	A	401	PX4	C20-C19-C18	2.22	103.14	114.37	19	3
4	A	380	PX4	O1-P1-O3	2.22	97.50	107.57	1	1
4	A	382	PX4	C29-C28-C27	2.22	103.14	114.37	20	4
4	A	419	PX4	C30-C29-C28	2.22	103.14	114.37	15	2
4	A	427	PX4	C13-C12-C11	2.22	103.14	114.37	14	1
4	A	310	PX4	O8-C23-C24	2.22	115.10	123.78	10	1
4	A	329	PX4	C17-C16-C15	2.22	103.15	114.37	13	1
4	A	322	PX4	C15-C14-C13	2.22	103.16	114.37	15	2
4	A	335	PX4	C3-N1-C2	2.22	118.72	109.91	12	1
4	A	393	PX4	O3-C1-C2	2.22	120.32	109.65	16	1
4	A	417	PX4	C20-C19-C18	2.22	103.15	114.37	11	2
4	A	326	PX4	O3-C1-C2	2.22	120.31	109.65	10	3
4	A	384	PX4	O4-P1-O2	2.22	100.15	108.94	5	1
4	A	335	PX4	C27-C26-C25	2.21	103.18	114.37	11	3
4	A	355	PX4	C4-N1-C2	2.21	118.71	109.91	14	3
4	A	364	PX4	C31-C30-C29	2.21	103.17	114.37	5	3
4	A	426	PX4	C26-C25-C24	2.21	104.99	113.13	10	2
4	A	332	PX4	C20-C19-C18	2.21	103.18	114.37	16	2
4	A	368	PX4	C29-C28-C27	2.21	103.19	114.37	12	1
4	A	369	PX4	C30-C29-C28	2.21	103.18	114.37	1	1
4	A	397	PX4	C30-C29-C28	2.21	103.18	114.37	5	1
4	A	332	PX4	C33-C32-C31	2.21	103.19	114.37	12	1
4	A	418	PX4	O3-C1-C2	2.21	99.00	109.65	1	1
4	A	340	PX4	C12-C11-C10	2.21	105.00	113.13	2	2
4	A	415	PX4	C3-N1-C2	2.21	101.12	109.91	9	1
4	A	305	PX4	C5-N1-C2	2.21	118.69	109.91	8	2
4	A	364	PX4	C25-C24-C23	2.21	105.59	113.69	8	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	371	PX4	C4-N1-C2	2.21	101.13	109.91	17	4
4	A	374	PX4	C27-C26-C25	2.21	103.20	114.37	12	1
4	A	387	PX4	C29-C28-C27	2.21	103.20	114.37	11	1
4	A	425	PX4	C33-C32-C31	2.21	103.20	114.37	16	1
4	A	338	PX4	C27-C26-C25	2.21	103.21	114.37	9	1
4	A	345	PX4	C27-C26-C25	2.21	103.22	114.37	7	1
4	A	361	PX4	C29-C28-C27	2.21	103.21	114.37	2	1
4	A	395	PX4	C31-C30-C29	2.21	103.20	114.37	1	2
4	A	421	PX4	C20-C19-C18	2.21	103.20	114.37	10	1
4	A	321	PX4	C25-C24-C23	2.21	105.61	113.69	16	2
4	A	346	PX4	O3-C1-C2	2.21	120.26	109.65	4	2
4	A	346	PX4	C29-C28-C27	2.21	103.22	114.37	18	2
4	A	347	PX4	C32-C31-C30	2.21	103.22	114.37	20	1
4	A	401	PX4	C16-C15-C14	2.21	103.22	114.37	20	1
4	A	378	PX4	C22-C21-C20	2.21	98.46	113.36	4	1
4	A	384	PX4	C33-C32-C31	2.21	103.21	114.37	3	1
4	A	427	PX4	C15-C14-C13	2.21	103.21	114.37	9	2
4	A	360	PX4	C33-C32-C31	2.21	103.22	114.37	10	2
4	A	428	PX4	C29-C28-C27	2.21	103.22	114.37	17	4
4	A	372	PX4	C28-C27-C26	2.20	103.22	114.37	14	1
4	A	410	PX4	C30-C29-C28	2.20	103.22	114.37	16	1
4	A	307	PX4	C29-C28-C27	2.20	103.23	114.37	14	2
4	A	341	PX4	C31-C30-C29	2.20	103.23	114.37	5	3
4	A	360	PX4	C32-C31-C30	2.20	103.23	114.37	10	1
4	A	363	PX4	C33-C32-C31	2.20	103.23	114.37	1	2
4	A	372	PX4	C11-C10-C9	2.20	105.62	113.69	6	2
4	A	378	PX4	C5-N1-C2	2.20	118.67	109.91	1	2
4	A	413	PX4	C18-C17-C16	2.20	103.23	114.37	8	3
4	A	325	PX4	C4-N1-C2	2.20	118.66	109.91	11	2
4	A	328	PX4	O4-P1-O2	2.20	117.66	108.94	2	3
4	A	377	PX4	C5-N1-C2	2.20	118.66	109.91	16	1
4	A	378	PX4	C29-C28-C27	2.20	103.24	114.37	6	2
4	A	412	PX4	C11-C10-C9	2.20	105.63	113.69	8	1
4	A	356	PX4	O1-P1-O3	2.20	97.60	107.57	6	1
4	A	392	PX4	O6-C9-C10	2.20	115.18	123.78	10	1
4	A	430	PX4	C13-C12-C11	2.20	103.25	114.37	5	2
4	A	308	PX4	C8-O5-C9	2.20	125.15	117.12	15	1
4	A	315	PX4	C15-C14-C13	2.20	103.26	114.37	11	1
4	A	320	PX4	C27-C26-C25	2.20	103.26	114.37	14	1
4	A	324	PX4	C27-C26-C25	2.20	103.26	114.37	14	1
4	A	358	PX4	C30-C29-C28	2.20	103.26	114.37	19	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	381	PX4	C11-C10-C9	2.20	105.64	113.69	18	2
4	A	356	PX4	C27-C26-C25	2.20	103.27	114.37	13	1
4	A	367	PX4	O8-C23-C24	2.20	115.19	123.78	17	2
4	A	367	PX4	C11-C10-C9	2.20	105.64	113.69	15	3
4	A	413	PX4	C15-C14-C13	2.20	103.26	114.37	6	1
4	A	426	PX4	C30-C29-C28	2.20	103.26	114.37	18	1
4	A	315	PX4	C4-N1-C2	2.19	118.63	109.91	10	1
4	A	335	PX4	C13-C12-C11	2.19	103.28	114.37	18	1
4	A	359	PX4	C27-C26-C25	2.20	103.27	114.37	5	1
4	A	362	PX4	C32-C31-C30	2.19	103.28	114.37	8	1
4	A	426	PX4	C29-C28-C27	2.20	103.27	114.37	16	1
4	A	412	PX4	C33-C32-C31	2.19	103.28	114.37	7	2
4	A	313	PX4	C8-O5-C9	2.19	109.11	117.12	3	1
4	A	338	PX4	C5-N1-C2	2.19	118.62	109.91	6	1
4	A	309	PX4	C17-C16-C15	2.19	103.30	114.37	13	1
4	A	318	PX4	C28-C27-C26	2.19	103.30	114.37	2	1
4	A	319	PX4	C27-C26-C25	2.19	103.30	114.37	6	1
4	A	364	PX4	C13-C12-C11	2.19	103.29	114.37	20	1
4	A	403	PX4	C16-C15-C14	2.19	103.29	114.37	17	1
4	A	386	PX4	C13-C12-C11	2.19	103.29	114.37	19	2
4	A	325	PX4	C29-C28-C27	2.19	103.30	114.37	8	1
4	A	364	PX4	C15-C14-C13	2.19	103.30	114.37	2	2
4	A	350	PX4	C20-C19-C18	2.19	103.31	114.37	6	1
4	A	353	PX4	C8-O5-C9	2.19	125.12	117.12	4	1
4	A	353	PX4	C18-C17-C16	2.19	103.31	114.37	5	1
4	A	367	PX4	C5-N1-C3	2.19	103.23	108.98	8	1
4	A	380	PX4	C17-C16-C15	2.19	103.31	114.37	11	2
4	A	427	PX4	C26-C25-C24	2.19	121.17	113.13	10	2
4	A	358	PX4	O6-C9-C10	2.19	115.23	123.78	18	2
4	A	336	PX4	C36-C35-C34	2.19	98.61	113.36	3	1
4	A	350	PX4	C16-C15-C14	2.19	103.32	114.37	6	1
4	A	354	PX4	C28-C27-C26	2.19	103.32	114.37	18	2
4	A	357	PX4	C33-C32-C31	2.19	103.32	114.37	1	2
4	A	405	PX4	C30-C29-C28	2.19	103.32	114.37	1	3
4	A	372	PX4	C14-C13-C12	2.18	103.33	114.37	9	1
4	A	313	PX4	C17-C16-C15	2.18	103.34	114.37	20	1
4	A	329	PX4	C14-C13-C12	2.18	103.33	114.37	14	2
4	A	356	PX4	C30-C29-C28	2.18	103.33	114.37	11	2
4	A	400	PX4	C12-C11-C10	2.18	105.10	113.13	20	1
4	A	387	PX4	C17-C16-C15	2.18	103.33	114.37	5	2
4	A	416	PX4	O1-P1-O4	2.18	117.47	107.57	6	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	424	PX4	C28-C27-C26	2.18	103.33	114.37	11	2
4	A	319	PX4	C20-C19-C18	2.18	103.34	114.37	10	1
4	A	316	PX4	C26-C25-C24	2.18	105.11	113.13	10	2
4	A	351	PX4	C33-C32-C31	2.18	103.34	114.37	8	1
4	A	357	PX4	C30-C29-C28	2.18	103.34	114.37	17	2
4	A	366	PX4	C4-N1-C2	2.18	101.24	109.91	7	2
4	A	378	PX4	C27-C26-C25	2.18	103.34	114.37	13	1
4	A	387	PX4	O8-C23-C24	2.18	115.25	123.78	13	2
4	A	326	PX4	C26-C25-C24	2.18	121.14	113.13	2	2
4	A	366	PX4	C30-C29-C28	2.18	103.35	114.37	1	2
4	A	396	PX4	C11-C10-C9	2.18	105.70	113.69	9	4
4	A	430	PX4	O8-C23-C24	2.18	115.25	123.78	6	2
4	A	406	PX4	O8-C23-C24	2.18	115.26	123.78	6	1
4	A	407	PX4	C8-O5-C9	2.18	109.15	117.12	3	2
4	A	314	PX4	C3-N1-C2	2.18	101.25	109.91	14	1
4	A	311	PX4	C34-C33-C32	2.18	103.36	114.37	13	3
4	A	305	PX4	C14-C13-C12	2.18	103.37	114.37	2	2
4	A	308	PX4	C28-C27-C26	2.18	103.36	114.37	10	1
4	A	333	PX4	C13-C12-C11	2.18	103.36	114.37	1	2
4	A	351	PX4	C28-C27-C26	2.18	103.37	114.37	17	2
4	A	355	PX4	C29-C28-C27	2.18	103.37	114.37	6	1
4	A	368	PX4	C4-N1-C2	2.18	118.56	109.91	11	1
4	A	378	PX4	C11-C10-C9	2.18	105.72	113.69	17	1
4	A	424	PX4	O1-P1-O3	2.18	97.70	107.57	12	2
4	A	426	PX4	O1-P1-O4	2.18	117.43	107.57	7	1
4	A	309	PX4	O6-C9-C10	2.17	115.28	123.78	16	1
4	A	307	PX4	C33-C32-C31	2.17	103.38	114.37	19	1
4	A	337	PX4	C15-C14-C13	2.17	103.38	114.37	2	1
4	A	351	PX4	C34-C33-C32	2.17	103.38	114.37	3	1
4	A	387	PX4	C27-C26-C25	2.18	103.37	114.37	9	1
4	A	373	PX4	C11-C10-C9	2.17	105.73	113.69	4	2
4	A	375	PX4	C11-C10-C9	2.17	105.73	113.69	6	2
4	A	391	PX4	C4-N1-C2	2.18	118.56	109.91	3	1
4	A	414	PX4	C22-C21-C20	2.18	98.68	113.36	2	1
4	A	398	PX4	C8-O5-C9	2.18	109.17	117.12	13	1
4	A	354	PX4	C26-C25-C24	2.17	121.11	113.13	19	1
4	A	383	PX4	C18-C17-C16	2.17	103.39	114.37	12	1
4	A	388	PX4	C28-C27-C26	2.17	103.39	114.37	18	2
4	A	412	PX4	O8-C23-C24	2.17	115.28	123.78	20	1
4	A	396	PX4	C12-C11-C10	2.17	105.14	113.13	11	2
4	A	351	PX4	C30-C29-C28	2.17	103.39	114.37	17	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	394	PX4	C19-C18-C17	2.17	103.39	114.37	7	1
4	A	306	PX4	C31-C30-C29	2.17	103.40	114.37	6	1
4	A	347	PX4	C16-C15-C14	2.17	103.40	114.37	8	2
4	A	375	PX4	O3-C1-C2	2.17	120.09	109.65	11	1
4	A	384	PX4	C16-C15-C14	2.17	103.40	114.37	5	1
4	A	431	PX4	O8-C23-C24	2.17	115.29	123.78	16	1
4	A	310	PX4	C31-C30-C29	2.17	103.40	114.37	18	1
4	A	332	PX4	C15-C14-C13	2.17	103.41	114.37	15	1
4	A	366	PX4	O1-P1-O4	2.17	117.39	107.57	6	3
4	A	398	PX4	C22-C21-C20	2.17	98.72	113.36	9	1
4	A	315	PX4	O3-C1-C2	2.17	120.07	109.65	14	1
4	A	320	PX4	O3-C1-C2	2.17	120.08	109.65	17	1
4	A	321	PX4	C15-C14-C13	2.17	103.41	114.37	15	1
4	A	329	PX4	C5-N1-C2	2.17	101.30	109.91	20	1
4	A	406	PX4	C5-N1-C3	2.17	114.67	108.98	4	1
4	A	381	PX4	C29-C28-C27	2.17	103.42	114.37	15	1
4	A	407	PX4	C19-C18-C17	2.17	103.42	114.37	4	2
4	A	408	PX4	C13-C12-C11	2.17	103.42	114.37	8	1
4	A	390	PX4	C14-C13-C12	2.17	103.42	114.37	16	1
4	A	308	PX4	O1-P1-O4	2.16	97.76	107.57	17	1
4	A	312	PX4	C3-N1-C2	2.16	118.52	109.91	9	1
4	A	354	PX4	C19-C18-C17	2.16	103.42	114.37	1	1
4	A	392	PX4	C16-C15-C14	2.16	103.43	114.37	14	1
4	A	327	PX4	C28-C27-C26	2.16	103.43	114.37	1	1
4	A	390	PX4	C25-C24-C23	2.16	105.77	113.69	19	1
4	A	411	PX4	O3-P1-O2	2.16	100.36	108.94	20	2
4	A	336	PX4	C15-C14-C13	2.16	103.44	114.37	3	1
4	A	362	PX4	C11-C10-C9	2.16	105.77	113.69	20	1
4	A	395	PX4	C25-C24-C23	2.16	121.62	113.69	8	2
4	A	427	PX4	C19-C18-C17	2.16	103.44	114.37	1	2
4	A	354	PX4	C27-C26-C25	2.16	103.44	114.37	3	1
4	A	404	PX4	C14-C13-C12	2.16	103.45	114.37	14	1
4	A	379	PX4	C8-O5-C9	2.16	109.22	117.12	19	1
4	A	380	PX4	C20-C19-C18	2.16	103.45	114.37	9	1
4	A	384	PX4	C17-C16-C15	2.16	103.45	114.37	9	1
4	A	389	PX4	C32-C31-C30	2.16	103.45	114.37	17	1
4	A	419	PX4	O1-P1-O3	2.16	97.78	107.57	13	2
4	A	420	PX4	O6-C9-C10	2.16	132.23	123.78	3	1
4	A	350	PX4	C32-C31-C30	2.16	103.46	114.37	8	1
4	A	352	PX4	C31-C30-C29	2.16	103.45	114.37	12	2
4	A	362	PX4	C15-C14-C13	2.16	103.45	114.37	1	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	382	PX4	C33-C32-C31	2.16	103.46	114.37	13	1
4	A	410	PX4	C3-N1-C2	2.16	118.49	109.91	1	2
4	A	394	PX4	C12-C11-C10	2.16	105.20	113.13	5	2
4	A	429	PX4	C28-C27-C26	2.16	103.46	114.37	5	1
4	A	430	PX4	C8-O5-C9	2.16	109.23	117.12	7	1
4	A	327	PX4	C34-C33-C32	2.16	103.46	114.37	2	1
4	A	325	PX4	C19-C18-C17	2.16	103.47	114.37	18	2
4	A	331	PX4	C34-C33-C32	2.16	103.47	114.37	1	1
4	A	338	PX4	C4-N1-C2	2.16	118.48	109.91	13	1
4	A	340	PX4	O1-P1-O4	2.16	117.34	107.57	2	3
4	A	342	PX4	O6-C9-C10	2.16	115.35	123.78	9	2
4	A	379	PX4	C3-N1-C2	2.16	118.48	109.91	17	2
4	A	355	PX4	C5-N1-C2	2.16	101.34	109.91	16	1
4	A	416	PX4	C33-C32-C31	2.16	103.47	114.37	14	1
4	A	417	PX4	O1-P1-O3	2.16	97.79	107.57	4	1
4	A	418	PX4	C8-O5-C9	2.16	109.23	117.12	19	1
4	A	307	PX4	C28-C27-C26	2.15	103.48	114.37	18	2
4	A	310	PX4	C29-C28-C27	2.15	103.48	114.37	7	1
4	A	345	PX4	C31-C30-C29	2.15	103.48	114.37	7	1
4	A	403	PX4	C33-C32-C31	2.15	103.48	114.37	2	1
4	A	376	PX4	C30-C29-C28	2.15	103.48	114.37	13	1
4	A	381	PX4	C3-N1-C2	2.15	118.47	109.91	13	2
4	A	387	PX4	C33-C32-C31	2.15	103.48	114.37	2	1
4	A	398	PX4	O1-P1-O4	2.15	117.33	107.57	11	1
4	A	363	PX4	C8-O5-C9	2.15	109.25	117.12	1	1
4	A	317	PX4	C25-C24-C23	2.15	105.81	113.69	4	3
4	A	349	PX4	C26-C25-C24	2.15	105.22	113.13	3	1
4	A	374	PX4	O3-C1-C2	2.15	120.00	109.65	17	1
4	A	309	PX4	O8-C23-C24	2.15	115.37	123.78	5	2
4	A	357	PX4	O4-P1-O2	2.15	117.46	108.94	7	2
4	A	409	PX4	C3-N1-C2	2.15	118.46	109.91	1	1
4	A	414	PX4	O8-C23-C24	2.15	115.37	123.78	13	1
4	A	363	PX4	C29-C28-C27	2.15	103.50	114.37	13	1
4	A	353	PX4	O3-C1-C2	2.15	119.99	109.65	17	1
4	A	399	PX4	C31-C30-C29	2.15	103.50	114.37	7	1
4	A	313	PX4	C18-C17-C16	2.15	103.51	114.37	11	2
4	A	410	PX4	C18-C17-C16	2.15	103.51	114.37	16	1
4	A	314	PX4	O8-C23-C24	2.15	115.39	123.78	9	1
4	A	325	PX4	O8-C23-C24	2.15	115.39	123.78	6	1
4	A	386	PX4	C19-C18-C17	2.15	103.52	114.37	15	3
4	A	428	PX4	C20-C19-C18	2.15	103.52	114.37	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	344	PX4	C29-C28-C27	2.14	103.53	114.37	9	1
4	A	360	PX4	C31-C30-C29	2.15	103.53	114.37	10	1
4	A	326	PX4	C34-C33-C32	2.14	103.54	114.37	19	1
4	A	329	PX4	C28-C27-C26	2.14	103.53	114.37	2	1
4	A	347	PX4	C34-C33-C32	2.14	103.53	114.37	4	1
4	A	362	PX4	C28-C27-C26	2.14	103.53	114.37	10	1
4	A	362	PX4	C12-C11-C10	2.14	105.25	113.13	18	1
4	A	407	PX4	C29-C28-C27	2.14	103.53	114.37	15	1
4	A	408	PX4	C20-C19-C18	2.14	103.53	114.37	10	2
4	A	422	PX4	C4-N1-C2	2.14	101.39	109.91	16	2
4	A	308	PX4	C26-C25-C24	2.14	105.25	113.13	18	3
4	A	333	PX4	C12-C11-C10	2.14	105.26	113.13	10	1
4	A	378	PX4	C36-C35-C34	2.14	98.90	113.36	4	1
4	A	425	PX4	C32-C31-C30	2.14	103.54	114.37	1	1
4	A	366	PX4	C32-C31-C30	2.14	103.55	114.37	17	1
4	A	426	PX4	C17-C16-C15	2.14	103.54	114.37	19	2
4	A	398	PX4	O6-C9-C10	2.14	115.41	123.78	1	1
4	A	421	PX4	C15-C14-C13	2.14	103.55	114.37	10	2
4	A	422	PX4	C27-C26-C25	2.14	103.55	114.37	15	2
4	A	309	PX4	C31-C30-C29	2.14	103.56	114.37	12	1
4	A	325	PX4	C22-C21-C20	2.14	98.92	113.36	4	1
4	A	317	PX4	C20-C19-C18	2.14	103.56	114.37	17	1
4	A	352	PX4	C8-O5-C9	2.14	109.30	117.12	4	2
4	A	422	PX4	C33-C32-C31	2.14	103.56	114.37	7	1
4	A	426	PX4	C13-C12-C11	2.14	103.56	114.37	13	2
4	A	426	PX4	O3-C1-C2	2.14	119.94	109.65	18	1
4	A	429	PX4	C19-C18-C17	2.14	103.56	114.37	2	1
4	A	355	PX4	C12-C11-C10	2.14	105.27	113.13	12	1
4	A	344	PX4	C33-C32-C31	2.14	103.57	114.37	18	1
4	A	350	PX4	C5-N1-C2	2.14	101.42	109.91	1	1
4	A	400	PX4	C32-C31-C30	2.14	103.57	114.37	2	1
4	A	380	PX4	C32-C31-C30	2.14	103.57	114.37	15	1
4	A	411	PX4	O1-P1-O4	2.14	97.88	107.57	18	1
4	A	333	PX4	C27-C26-C25	2.13	103.58	114.37	3	1
4	A	335	PX4	O6-C9-C10	2.14	115.43	123.78	9	2
4	A	379	PX4	O6-C9-C10	2.14	115.43	123.78	8	1
4	A	393	PX4	C8-O5-C9	2.13	109.31	117.12	6	3
4	A	396	PX4	C8-O5-C9	2.13	124.92	117.12	3	2
4	A	306	PX4	C13-C12-C11	2.13	103.59	114.37	18	2
4	A	314	PX4	C14-C13-C12	2.13	103.59	114.37	4	2
4	A	356	PX4	C22-C21-C20	2.13	98.96	113.36	12	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	402	PX4	C18-C17-C16	2.13	103.58	114.37	5	2
4	A	305	PX4	O8-C23-C24	2.13	115.45	123.78	10	1
4	A	317	PX4	C34-C33-C32	2.13	103.60	114.37	4	1
4	A	311	PX4	O3-C1-C2	2.13	119.90	109.65	3	2
4	A	316	PX4	C25-C24-C23	2.13	105.89	113.69	17	1
4	A	322	PX4	C4-N1-C2	2.13	101.44	109.91	11	2
4	A	324	PX4	C31-C30-C29	2.13	103.59	114.37	13	2
4	A	342	PX4	C32-C31-C30	2.13	103.59	114.37	3	2
4	A	352	PX4	C14-C13-C12	2.13	103.59	114.37	3	1
4	A	393	PX4	C34-C33-C32	2.13	103.59	114.37	9	1
4	A	422	PX4	C18-C17-C16	2.13	103.59	114.37	20	1
4	A	431	PX4	C15-C14-C13	2.13	103.59	114.37	13	1
4	A	325	PX4	C14-C13-C12	2.13	103.60	114.37	3	1
4	A	329	PX4	O3-C1-C2	2.13	119.90	109.65	7	3
4	A	370	PX4	C26-C25-C24	2.13	105.30	113.13	13	1
4	A	319	PX4	C28-C27-C26	2.13	103.61	114.37	9	1
4	A	373	PX4	C34-C33-C32	2.13	103.60	114.37	3	1
4	A	351	PX4	C3-N1-C2	2.13	118.37	109.91	14	1
4	A	404	PX4	C34-C33-C32	2.13	103.60	114.37	2	3
4	A	355	PX4	C11-C10-C9	2.13	105.89	113.69	16	1
4	A	305	PX4	C19-C18-C17	2.13	103.62	114.37	18	2
4	A	305	PX4	C36-C35-C34	2.13	99.00	113.36	16	1
4	A	343	PX4	O8-C23-C24	2.13	132.10	123.78	17	1
4	A	352	PX4	O3-C1-C2	2.13	119.89	109.65	2	1
4	A	422	PX4	C34-C33-C32	2.13	103.61	114.37	8	1
4	A	363	PX4	C14-C13-C12	2.13	103.61	114.37	1	1
4	A	343	PX4	C19-C18-C17	2.13	103.62	114.37	19	2
4	A	399	PX4	C18-C17-C16	2.13	103.62	114.37	16	3
4	A	397	PX4	C15-C14-C13	2.13	103.62	114.37	9	1
4	A	426	PX4	C19-C18-C17	2.13	103.62	114.37	5	1
4	A	330	PX4	C32-C31-C30	2.13	103.63	114.37	11	2
4	A	345	PX4	C16-C15-C14	2.12	103.63	114.37	17	1
4	A	372	PX4	O3-C1-C2	2.12	119.87	109.65	11	1
4	A	378	PX4	C33-C32-C31	2.13	103.62	114.37	18	1
4	A	398	PX4	O8-C23-C24	2.13	132.09	123.78	12	1
4	A	332	PX4	C31-C30-C29	2.12	103.63	114.37	11	1
4	A	367	PX4	C29-C28-C27	2.12	103.63	114.37	2	1
4	A	333	PX4	C4-N1-C2	2.12	118.34	109.91	7	2
4	A	376	PX4	C32-C31-C30	2.12	103.64	114.37	19	1
4	A	413	PX4	O4-P1-O2	2.12	117.35	108.94	8	2
4	A	422	PX4	C14-C13-C12	2.12	103.64	114.37	20	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	322	PX4	C5-N1-C2	2.12	101.48	109.91	17	1
4	A	352	PX4	C29-C28-C27	2.12	103.65	114.37	20	1
4	A	362	PX4	C31-C30-C29	2.12	103.65	114.37	15	1
4	A	419	PX4	C32-C31-C30	2.12	103.65	114.37	18	1
4	A	423	PX4	C20-C19-C18	2.12	103.65	114.37	4	1
4	A	319	PX4	C29-C28-C27	2.12	103.66	114.37	20	1
4	A	372	PX4	O6-C9-C10	2.12	115.49	123.78	10	1
4	A	404	PX4	C16-C15-C14	2.12	103.65	114.37	10	1
4	A	392	PX4	C36-C35-C34	2.12	99.05	113.36	16	1
4	A	320	PX4	C32-C31-C30	2.12	103.67	114.37	9	1
4	A	371	PX4	C31-C30-C29	2.12	103.67	114.37	10	1
4	A	404	PX4	O4-P1-O2	2.12	100.55	108.94	3	1
4	A	424	PX4	O6-C9-C10	2.12	115.50	123.78	14	1
4	A	405	PX4	C5-N1-C2	2.12	101.50	109.91	15	1
4	A	420	PX4	C13-C12-C11	2.12	103.67	114.37	19	1
4	A	384	PX4	C5-N1-C3	2.12	103.42	108.98	9	2
4	A	429	PX4	C17-C16-C15	2.11	103.68	114.37	10	1
4	A	305	PX4	C11-C10-C9	2.11	105.95	113.69	12	1
4	A	326	PX4	C5-N1-C2	2.11	118.31	109.91	20	1
4	A	403	PX4	O3-C1-C2	2.11	119.82	109.65	11	1
4	A	377	PX4	O3-C1-C2	2.11	119.81	109.65	17	2
4	A	385	PX4	C28-C27-C26	2.11	103.69	114.37	8	2
4	A	389	PX4	C19-C18-C17	2.11	103.69	114.37	6	1
4	A	391	PX4	C16-C15-C14	2.11	103.69	114.37	14	1
4	A	413	PX4	C28-C27-C26	2.11	103.68	114.37	5	1
4	A	315	PX4	C36-C35-C34	2.11	99.11	113.36	13	1
4	A	351	PX4	C20-C19-C18	2.11	103.69	114.37	6	1
4	A	390	PX4	C19-C18-C17	2.11	103.69	114.37	13	1
4	A	401	PX4	C14-C13-C12	2.11	103.70	114.37	14	1
4	A	376	PX4	C11-C10-C9	2.11	105.96	113.69	16	1
4	A	310	PX4	C15-C14-C13	2.11	103.71	114.37	5	2
4	A	382	PX4	O1-P1-O3	2.11	98.00	107.57	8	2
4	A	428	PX4	C27-C26-C25	2.11	103.70	114.37	13	1
4	A	365	PX4	C29-C28-C27	2.11	103.71	114.37	8	1
4	A	365	PX4	C15-C14-C13	2.11	103.71	114.37	20	1
4	A	402	PX4	C28-C27-C26	2.11	103.71	114.37	20	2
4	A	382	PX4	C25-C24-C23	2.11	105.97	113.69	3	1
4	A	325	PX4	C16-C15-C14	2.11	103.72	114.37	11	1
4	A	321	PX4	O6-C9-C10	2.11	132.02	123.78	14	1
4	A	338	PX4	C8-O5-C9	2.11	109.42	117.12	5	2
4	A	357	PX4	C31-C30-C29	2.11	103.72	114.37	5	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	376	PX4	C15-C14-C13	2.11	103.72	114.37	10	1
4	A	323	PX4	C30-C29-C28	2.11	103.73	114.37	6	1
4	A	338	PX4	C18-C17-C16	2.11	103.73	114.37	7	1
4	A	340	PX4	O3-C1-C2	2.11	99.51	109.65	11	1
4	A	343	PX4	C27-C26-C25	2.11	103.73	114.37	11	1
4	A	347	PX4	O4-P1-O2	2.11	117.28	108.94	1	1
4	A	362	PX4	O3-C1-C2	2.11	119.78	109.65	14	1
4	A	386	PX4	O6-C9-C10	2.11	115.55	123.78	9	1
4	A	418	PX4	C14-C13-C12	2.11	103.72	114.37	17	1
4	A	332	PX4	C29-C28-C27	2.10	103.73	114.37	1	1
4	A	333	PX4	C26-C25-C24	2.10	120.86	113.13	9	1
4	A	336	PX4	C14-C13-C12	2.10	103.74	114.37	20	1
4	A	357	PX4	O6-C9-C10	2.10	115.56	123.78	17	1
4	A	377	PX4	C29-C28-C27	2.10	103.74	114.37	15	2
4	A	405	PX4	C13-C12-C11	2.10	103.74	114.37	7	1
4	A	408	PX4	C3-N1-C2	2.10	118.27	109.91	16	1
4	A	390	PX4	C17-C16-C15	2.10	103.73	114.37	2	1
4	A	390	PX4	O3-P1-O2	2.10	100.60	108.94	17	1
4	A	423	PX4	C3-N1-C2	2.10	118.27	109.91	6	1
4	A	427	PX4	O1-P1-O4	2.10	117.10	107.57	12	2
4	A	309	PX4	C15-C14-C13	2.10	103.75	114.37	14	1
4	A	333	PX4	C22-C21-C20	2.10	99.17	113.36	12	1
4	A	307	PX4	O8-C23-C24	2.10	132.00	123.78	1	1
4	A	317	PX4	C31-C30-C29	2.10	103.75	114.37	2	1
4	A	322	PX4	C16-C15-C14	2.10	103.75	114.37	3	1
4	A	344	PX4	C14-C13-C12	2.10	103.75	114.37	10	1
4	A	354	PX4	C17-C16-C15	2.10	103.75	114.37	7	1
4	A	354	PX4	O3-C1-C2	2.10	119.76	109.65	14	1
4	A	377	PX4	C22-C21-C20	2.10	99.17	113.36	9	1
4	A	380	PX4	C22-C21-C20	2.10	99.17	113.36	3	1
4	A	355	PX4	C27-C26-C25	2.10	103.75	114.37	19	1
4	A	414	PX4	C30-C29-C28	2.10	103.75	114.37	2	1
4	A	424	PX4	O8-C23-C24	2.10	115.56	123.78	9	1
4	A	399	PX4	O6-C9-C10	2.10	115.57	123.78	12	2
4	A	370	PX4	C8-O5-C9	2.10	124.79	117.12	3	1
4	A	380	PX4	C3-N1-C2	2.10	101.56	109.91	3	1
4	A	307	PX4	C36-C35-C34	2.10	99.20	113.36	16	1
4	A	328	PX4	C8-O5-C9	2.10	109.45	117.12	9	3
4	A	331	PX4	C33-C32-C31	2.10	103.76	114.37	17	2
4	A	376	PX4	C18-C17-C16	2.10	103.76	114.37	11	2
4	A	392	PX4	C29-C28-C27	2.10	103.76	114.37	11	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	348	PX4	C4-N1-C2	2.10	118.25	109.91	14	1
4	A	393	PX4	C3-N1-C2	2.10	118.25	109.91	17	1
4	A	394	PX4	O4-P1-O2	2.10	117.25	108.94	20	1
4	A	344	PX4	C32-C31-C30	2.10	103.77	114.37	11	1
4	A	372	PX4	C13-C12-C11	2.10	103.77	114.37	16	1
4	A	429	PX4	C30-C29-C28	2.10	103.77	114.37	15	1
4	A	318	PX4	O8-C23-C24	2.09	131.97	123.78	15	1
4	A	417	PX4	C18-C17-C16	2.09	103.78	114.37	6	1
4	A	313	PX4	C34-C33-C32	2.09	103.80	114.37	15	3
4	A	329	PX4	C18-C17-C16	2.09	103.80	114.37	12	1
4	A	382	PX4	O8-C23-C24	2.09	115.60	123.78	8	1
4	A	410	PX4	C15-C14-C13	2.09	103.80	114.37	7	1
4	A	336	PX4	C16-C15-C14	2.09	103.80	114.37	13	1
4	A	354	PX4	C4-N1-C2	2.09	118.22	109.91	14	1
4	A	413	PX4	C27-C26-C25	2.09	103.80	114.37	20	1
4	A	322	PX4	C22-C21-C20	2.09	99.26	113.36	11	1
4	A	358	PX4	C20-C19-C18	2.09	103.81	114.37	15	1
4	A	411	PX4	C11-C10-C9	2.09	106.04	113.69	15	2
4	A	373	PX4	C13-C12-C11	2.09	103.81	114.37	6	1
4	A	412	PX4	C8-O5-C9	2.09	109.48	117.12	11	2
4	A	305	PX4	C16-C15-C14	2.09	103.82	114.37	9	1
4	A	316	PX4	C5-N1-C2	2.09	118.20	109.91	3	1
4	A	346	PX4	C34-C33-C32	2.09	103.82	114.37	9	1
4	A	369	PX4	C31-C30-C29	2.09	103.83	114.37	4	1
4	A	384	PX4	C19-C18-C17	2.09	103.82	114.37	3	1
4	A	311	PX4	O1-P1-O3	2.08	98.12	107.57	16	1
4	A	321	PX4	C4-N1-C2	2.09	118.20	109.91	4	4
4	A	391	PX4	C33-C32-C31	2.09	103.82	114.37	3	2
4	A	341	PX4	C28-C27-C26	2.08	103.83	114.37	18	1
4	A	394	PX4	C8-O5-C9	2.08	124.74	117.12	12	1
4	A	398	PX4	C32-C31-C30	2.08	103.83	114.37	1	1
4	A	431	PX4	C31-C30-C29	2.08	103.83	114.37	10	1
4	A	322	PX4	C12-C11-C10	2.08	105.48	113.13	19	2
4	A	348	PX4	O1-P1-O3	2.08	117.00	107.57	5	1
4	A	374	PX4	C19-C18-C17	2.08	124.89	114.37	11	1
4	A	400	PX4	C18-C17-C16	2.08	103.85	114.37	14	1
4	A	375	PX4	O6-C9-C10	2.08	115.64	123.78	7	2
4	A	377	PX4	C27-C26-C25	2.08	103.85	114.37	18	2
4	A	414	PX4	C20-C19-C18	2.08	103.84	114.37	6	1
4	A	385	PX4	C8-O5-C9	2.08	109.51	117.12	4	1
4	A	414	PX4	C5-N1-C2	2.08	118.19	109.91	18	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	319	PX4	O1-P1-O3	2.08	98.14	107.57	15	3
4	A	324	PX4	C16-C15-C14	2.08	103.86	114.37	18	1
4	A	336	PX4	C17-C16-C15	2.08	103.86	114.37	9	1
4	A	377	PX4	C33-C32-C31	2.08	103.86	114.37	11	1
4	A	392	PX4	C13-C12-C11	2.08	103.86	114.37	6	1
4	A	430	PX4	C19-C18-C17	2.08	103.85	114.37	10	1
4	A	343	PX4	C5-N1-C2	2.08	118.17	109.91	12	1
4	A	338	PX4	O8-C23-C24	2.08	115.66	123.78	20	1
4	A	351	PX4	C29-C28-C27	2.08	103.87	114.37	13	2
4	A	407	PX4	C27-C26-C25	2.08	103.87	114.37	20	1
4	A	395	PX4	C26-C25-C24	2.08	105.50	113.13	13	2
4	A	307	PX4	C14-C13-C12	2.07	103.88	114.37	15	2
4	A	411	PX4	C15-C14-C13	2.07	103.88	114.37	3	2
4	A	314	PX4	C15-C14-C13	2.07	103.89	114.37	4	1
4	A	320	PX4	C19-C18-C17	2.07	103.89	114.37	8	1
4	A	383	PX4	C4-N1-C2	2.07	118.15	109.91	14	1
4	A	427	PX4	C31-C30-C29	2.07	103.89	114.37	19	2
4	A	307	PX4	C34-C33-C32	2.07	103.90	114.37	18	1
4	A	365	PX4	O6-C9-C10	2.07	115.68	123.78	14	1
4	A	334	PX4	O8-C23-C24	2.07	115.69	123.78	10	1
4	A	391	PX4	C17-C16-C15	2.07	103.90	114.37	6	1
4	A	416	PX4	O8-C23-C24	2.07	115.68	123.78	7	1
4	A	320	PX4	C3-N1-C2	2.07	118.13	109.91	2	1
4	A	360	PX4	C26-C25-C24	2.07	120.73	113.13	11	2
4	A	403	PX4	C34-C33-C32	2.07	103.91	114.37	5	1
4	A	413	PX4	C32-C31-C30	2.07	103.91	114.37	8	1
4	A	395	PX4	C19-C18-C17	2.07	103.91	114.37	17	1
4	A	346	PX4	C33-C32-C31	2.07	103.91	114.37	6	2
4	A	356	PX4	C33-C32-C31	2.07	124.82	114.37	10	2
4	A	315	PX4	O6-C9-C10	2.07	115.70	123.78	20	1
4	A	369	PX4	C15-C14-C13	2.07	103.93	114.37	7	1
4	A	369	PX4	C3-N1-C2	2.06	118.12	109.91	15	1
4	A	382	PX4	O6-C9-C10	2.07	115.70	123.78	10	1
4	A	429	PX4	O3-C1-C2	2.07	119.59	109.65	10	2
4	A	316	PX4	C18-C17-C16	2.06	103.93	114.37	9	1
4	A	311	PX4	C36-C35-C34	2.06	99.44	113.36	17	1
4	A	336	PX4	C28-C27-C26	2.06	103.94	114.37	18	1
4	A	354	PX4	C33-C32-C31	2.06	103.94	114.37	20	1
4	A	369	PX4	C26-C25-C24	2.06	105.55	113.13	4	1
4	A	381	PX4	C19-C18-C17	2.06	103.94	114.37	15	1
4	A	390	PX4	C8-O5-C9	2.06	109.58	117.12	9	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	398	PX4	C29-C28-C27	2.06	103.93	114.37	11	1
4	A	306	PX4	O6-C9-C10	2.06	115.73	123.78	19	1
4	A	317	PX4	C15-C14-C13	2.06	103.95	114.37	20	1
4	A	314	PX4	C27-C26-C25	2.06	103.95	114.37	4	1
4	A	320	PX4	C14-C13-C12	2.06	103.95	114.37	18	1
4	A	335	PX4	C34-C33-C32	2.06	103.95	114.37	18	1
4	A	345	PX4	C5-N1-C2	2.06	118.11	109.91	18	1
4	A	384	PX4	C8-O5-C9	2.06	124.66	117.12	6	1
4	A	414	PX4	C36-C35-C34	2.06	99.44	113.36	12	1
4	A	339	PX4	O1-P1-O4	2.06	116.91	107.57	4	1
4	A	355	PX4	C3-N1-C2	2.06	118.10	109.91	5	1
4	A	429	PX4	O8-C23-C24	2.06	131.84	123.78	10	1
4	A	344	PX4	O1-P1-O3	2.06	98.23	107.57	18	1
4	A	345	PX4	C21-C20-C19	2.06	97.18	115.25	10	1
4	A	359	PX4	O3-C1-C2	2.06	119.56	109.65	4	3
4	A	380	PX4	C33-C32-C31	2.06	103.95	114.37	2	1
4	A	412	PX4	C27-C26-C25	2.06	103.95	114.37	12	1
4	A	314	PX4	C33-C32-C31	2.06	103.96	114.37	5	1
4	A	329	PX4	C4-N1-C2	2.06	118.08	109.91	6	1
4	A	387	PX4	C11-C10-C9	2.06	106.16	113.69	12	1
4	A	318	PX4	C30-C29-C28	2.05	103.98	114.37	14	2
4	A	341	PX4	C25-C24-C23	2.06	106.16	113.69	8	1
4	A	369	PX4	C33-C32-C31	2.06	103.98	114.37	13	2
4	A	385	PX4	O8-C23-C24	2.05	115.75	123.78	9	1
4	A	320	PX4	C31-C30-C29	2.05	103.99	114.37	14	1
4	A	324	PX4	C20-C19-C18	2.05	103.99	114.37	7	1
4	A	363	PX4	C11-C10-C9	2.05	106.17	113.69	8	2
4	A	366	PX4	C31-C30-C29	2.05	103.99	114.37	20	1
4	A	378	PX4	C25-C24-C23	2.05	106.17	113.69	8	3
4	A	407	PX4	C33-C32-C31	2.05	103.99	114.37	15	1
4	A	409	PX4	O3-C1-C2	2.05	119.52	109.65	11	1
4	A	312	PX4	C5-N1-C2	2.05	101.76	109.91	14	2
4	A	339	PX4	C16-C15-C14	2.05	104.00	114.37	1	2
4	A	389	PX4	O8-C23-C24	2.05	115.76	123.78	18	1
4	A	424	PX4	C34-C33-C32	2.05	104.00	114.37	20	2
4	A	417	PX4	C29-C28-C27	2.05	104.01	114.37	18	1
4	A	427	PX4	C18-C17-C16	2.05	104.00	114.37	3	1
4	A	372	PX4	C26-C25-C24	2.05	105.60	113.13	19	1
4	A	418	PX4	C3-N1-C2	2.05	101.77	109.91	20	1
4	A	328	PX4	C28-C27-C26	2.05	104.02	114.37	14	1
4	A	403	PX4	C3-N1-C2	2.05	118.05	109.91	1	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	325	PX4	C32-C31-C30	2.05	104.03	114.37	2	1
4	A	327	PX4	C14-C13-C12	2.05	104.03	114.37	19	1
4	A	366	PX4	C28-C27-C26	2.05	104.02	114.37	10	2
4	A	382	PX4	C17-C16-C15	2.05	104.02	114.37	4	1
4	A	389	PX4	C34-C33-C32	2.05	104.02	114.37	1	1
4	A	411	PX4	C16-C15-C14	2.05	124.71	114.37	3	1
4	A	392	PX4	C31-C30-C29	2.05	104.02	114.37	14	1
4	A	420	PX4	C4-N1-C2	2.05	101.77	109.91	19	1
4	A	399	PX4	C17-C16-C15	2.05	104.03	114.37	17	1
4	A	428	PX4	O3-C1-C2	2.05	119.49	109.65	6	1
4	A	420	PX4	C20-C19-C18	2.04	104.03	114.37	7	1
4	A	347	PX4	C15-C14-C13	2.04	104.04	114.37	7	1
4	A	373	PX4	C32-C31-C30	2.04	104.04	114.37	7	1
4	A	376	PX4	C8-O5-C9	2.04	109.65	117.12	18	1
4	A	312	PX4	O1-P1-O4	2.04	116.83	107.57	19	1
4	A	390	PX4	O1-P1-O4	2.04	116.83	107.57	12	1
4	A	340	PX4	C4-N1-C2	2.04	118.02	109.91	7	1
4	A	365	PX4	C17-C16-C15	2.04	104.05	114.37	20	2
4	A	365	PX4	C28-C27-C26	2.04	124.69	114.37	11	1
4	A	368	PX4	C16-C15-C14	2.04	104.05	114.37	8	1
4	A	374	PX4	C33-C32-C31	2.04	104.05	114.37	9	1
4	A	407	PX4	C31-C30-C29	2.04	104.05	114.37	16	1
4	A	407	PX4	O3-C1-C2	2.04	119.47	109.65	17	1
4	A	392	PX4	C18-C17-C16	2.04	104.04	114.37	10	1
4	A	413	PX4	C17-C16-C15	2.04	104.05	114.37	5	1
4	A	414	PX4	C29-C28-C27	2.04	104.05	114.37	4	1
4	A	309	PX4	C33-C32-C31	2.04	104.06	114.37	17	1
4	A	310	PX4	C14-C13-C12	2.04	104.05	114.37	19	1
4	A	331	PX4	C25-C24-C23	2.04	106.22	113.69	16	1
4	A	311	PX4	C27-C26-C25	2.04	104.07	114.37	3	1
4	A	324	PX4	O1-P1-O4	2.04	116.81	107.57	17	1
4	A	363	PX4	C31-C30-C29	2.04	104.06	114.37	1	1
4	A	381	PX4	C13-C12-C11	2.04	104.06	114.37	10	1
4	A	382	PX4	C4-N1-C2	2.04	118.02	109.91	1	1
4	A	409	PX4	O8-C23-C24	2.04	115.80	123.78	11	1
4	A	418	PX4	C17-C16-C15	2.04	104.05	114.37	17	1
4	A	363	PX4	C20-C19-C18	2.04	104.06	114.37	18	1
4	A	379	PX4	C28-C27-C26	2.04	104.07	114.37	20	1
4	A	409	PX4	C18-C17-C16	2.04	104.06	114.37	5	1
4	A	315	PX4	C25-C24-C23	2.04	106.23	113.69	18	1
4	A	323	PX4	C18-C17-C16	2.04	104.07	114.37	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	325	PX4	C11-C10-C9	2.04	106.23	113.69	6	1
4	A	345	PX4	C13-C12-C11	2.04	104.07	114.37	14	1
4	A	374	PX4	C22-C21-C20	2.04	99.60	113.36	15	1
4	A	422	PX4	O4-P1-O2	2.04	117.01	108.94	8	1
4	A	428	PX4	C34-C33-C32	2.04	104.06	114.37	17	2
4	A	309	PX4	C16-C15-C14	2.04	104.08	114.37	17	1
4	A	339	PX4	O6-C9-C10	2.03	115.83	123.78	13	1
4	A	348	PX4	O3-C1-C2	2.04	119.44	109.65	14	1
4	A	351	PX4	C32-C31-C30	2.04	104.08	114.37	5	1
4	A	316	PX4	O3-C1-C2	2.03	119.43	109.65	14	1
4	A	331	PX4	C36-C35-C34	2.03	99.63	113.36	20	1
4	A	349	PX4	C32-C31-C30	2.03	104.09	114.37	6	1
4	A	383	PX4	C12-C11-C10	2.03	105.66	113.13	13	1
4	A	394	PX4	O3-C1-C2	2.03	119.44	109.65	8	1
4	A	358	PX4	C28-C27-C26	2.03	104.09	114.37	15	2
4	A	368	PX4	C20-C19-C18	2.03	104.09	114.37	1	1
4	A	321	PX4	C5-N1-C2	2.03	101.83	109.91	20	1
4	A	404	PX4	C4-N1-C2	2.03	117.98	109.91	7	1
4	A	390	PX4	C15-C14-C13	2.03	104.10	114.37	13	1
4	A	306	PX4	C33-C32-C31	2.03	104.11	114.37	14	1
4	A	324	PX4	C19-C18-C17	2.03	104.11	114.37	19	1
4	A	356	PX4	C19-C18-C17	2.03	104.11	114.37	18	1
4	A	404	PX4	C33-C32-C31	2.03	104.11	114.37	18	2
4	A	409	PX4	C4-N1-C2	2.03	101.85	109.91	16	1
4	A	370	PX4	C33-C32-C31	2.03	104.12	114.37	15	1
4	A	382	PX4	C13-C12-C11	2.03	104.12	114.37	2	1
4	A	385	PX4	C30-C29-C28	2.03	104.13	114.37	2	1
4	A	386	PX4	C30-C29-C28	2.03	104.12	114.37	17	1
4	A	427	PX4	O6-C9-C10	2.03	115.85	123.78	5	1
4	A	336	PX4	C22-C21-C20	2.03	99.68	113.36	9	1
4	A	319	PX4	C34-C33-C32	2.02	104.13	114.37	14	1
4	A	326	PX4	C31-C30-C29	2.03	104.13	114.37	3	2
4	A	344	PX4	C5-N1-C2	2.03	117.96	109.91	13	1
4	A	426	PX4	C4-N1-C3	2.03	114.30	108.98	3	1
4	A	430	PX4	C18-C17-C16	2.03	104.12	114.37	15	1
4	A	367	PX4	C19-C18-C17	2.03	104.13	114.37	2	1
4	A	413	PX4	O8-C23-C24	2.02	115.86	123.78	8	1
4	A	397	PX4	C32-C31-C30	2.02	104.13	114.37	5	1
4	A	423	PX4	O6-C9-C10	2.03	115.86	123.78	7	1
4	A	364	PX4	C34-C33-C32	2.02	104.14	114.37	7	1
4	A	369	PX4	C28-C27-C26	2.02	104.14	114.37	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	380	PX4	C34-C33-C32	2.02	104.14	114.37	5	1
4	A	412	PX4	C4-N1-C2	2.02	101.87	109.91	9	1
4	A	320	PX4	C30-C29-C28	2.02	104.15	114.37	7	1
4	A	333	PX4	C32-C31-C30	2.02	104.15	114.37	12	1
4	A	352	PX4	O8-C23-C24	2.02	115.87	123.78	1	1
4	A	407	PX4	C28-C27-C26	2.02	104.15	114.37	15	1
4	A	319	PX4	C36-C35-C34	2.02	99.72	113.36	20	1
4	A	341	PX4	C16-C15-C14	2.02	104.15	114.37	17	1
4	A	350	PX4	O1-P1-O3	2.02	98.41	107.57	4	1
4	A	413	PX4	C20-C19-C18	2.02	104.15	114.37	2	1
4	A	366	PX4	C36-C35-C34	2.02	99.72	113.36	20	1
4	A	318	PX4	O3-P1-O2	2.02	116.93	108.94	19	1
4	A	333	PX4	C29-C28-C27	2.02	104.17	114.37	15	1
4	A	374	PX4	C32-C31-C30	2.02	104.16	114.37	19	1
4	A	408	PX4	C34-C33-C32	2.02	104.16	114.37	20	1
4	A	342	PX4	C5-N1-C2	2.02	117.93	109.91	1	1
4	A	367	PX4	O7-C23-O8	2.02	118.99	123.70	15	1
4	A	393	PX4	C29-C28-C27	2.02	104.16	114.37	19	1
4	A	414	PX4	O1-P1-O4	2.02	116.71	107.57	1	1
4	A	360	PX4	C5-N1-C2	2.02	117.92	109.91	7	1
4	A	422	PX4	C11-C10-C9	2.02	106.31	113.69	1	1
4	A	324	PX4	C15-C14-C13	2.01	104.19	114.37	2	1
4	A	339	PX4	O3-C1-C2	2.02	119.34	109.65	7	1
4	A	349	PX4	C18-C17-C16	2.02	104.18	114.37	6	1
4	A	389	PX4	C13-C12-C11	2.01	104.18	114.37	14	1
4	A	422	PX4	C5-N1-C2	2.02	101.90	109.91	5	1
4	A	342	PX4	C22-C21-C20	2.01	99.77	113.36	2	1
4	A	372	PX4	O8-C23-C24	2.01	115.91	123.78	5	1
4	A	403	PX4	O1-P1-O3	2.01	116.70	107.57	14	1
4	A	408	PX4	C8-O5-C9	2.01	109.76	117.12	11	1
4	A	420	PX4	C31-C30-C29	2.01	104.19	114.37	13	1
4	A	318	PX4	C31-C30-C29	2.01	104.19	114.37	8	1
4	A	331	PX4	C29-C28-C27	2.01	104.20	114.37	6	1
4	A	344	PX4	C17-C16-C15	2.01	104.19	114.37	13	1
4	A	378	PX4	C4-N1-C2	2.01	101.91	109.91	14	2
4	A	405	PX4	C34-C33-C32	2.01	104.20	114.37	20	1
4	A	417	PX4	C25-C24-C23	2.01	106.32	113.69	13	1
4	A	380	PX4	C31-C30-C29	2.01	104.20	114.37	17	1
4	A	422	PX4	C13-C12-C11	2.01	104.20	114.37	5	1
4	A	428	PX4	C31-C30-C29	2.01	104.21	114.37	10	1
4	A	429	PX4	C14-C13-C12	2.01	104.20	114.37	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	327	PX4	C17-C16-C15	2.01	104.21	114.37	10	1
4	A	370	PX4	O6-C9-C10	2.01	115.93	123.78	4	1
4	A	375	PX4	C12-C11-C10	2.01	105.75	113.13	10	1
4	A	405	PX4	C35-C34-C33	2.01	97.63	115.25	20	1
4	A	397	PX4	C12-C11-C10	2.01	105.75	113.13	17	1
4	A	420	PX4	C22-C21-C20	2.01	99.80	113.36	18	1
4	A	305	PX4	C28-C27-C26	2.01	104.22	114.37	3	1
4	A	352	PX4	C3-N1-C2	2.01	117.89	109.91	3	1
4	A	354	PX4	C5-N1-C2	2.01	117.89	109.91	5	1
4	A	407	PX4	C32-C31-C30	2.01	104.23	114.37	13	1
4	A	388	PX4	C33-C32-C31	2.01	104.23	114.37	4	1
4	A	305	PX4	O3-C1-C2	2.00	119.29	109.65	4	1
4	A	322	PX4	C8-O5-C9	2.00	109.79	117.12	6	1
4	A	323	PX4	C32-C31-C30	2.00	104.24	114.37	17	1
4	A	328	PX4	C13-C12-C11	2.00	104.24	114.37	6	1
4	A	329	PX4	C16-C15-C14	2.00	104.24	114.37	10	1
4	A	331	PX4	C19-C18-C17	2.00	104.24	114.37	11	1
4	A	380	PX4	C14-C13-C12	2.00	104.25	114.37	6	1
4	A	388	PX4	C3-N1-C2	2.00	117.87	109.91	11	1
4	A	414	PX4	C14-C13-C12	2.00	104.24	114.37	19	1
4	A	382	PX4	O3-C1-C2	2.00	119.28	109.65	9	1
4	A	334	PX4	C28-C27-C26	2.00	104.26	114.37	20	1
4	A	343	PX4	C33-C32-C31	2.00	104.26	114.37	15	1
4	A	408	PX4	C22-C21-C20	2.00	99.85	113.36	11	1

There are no chirality outliers.

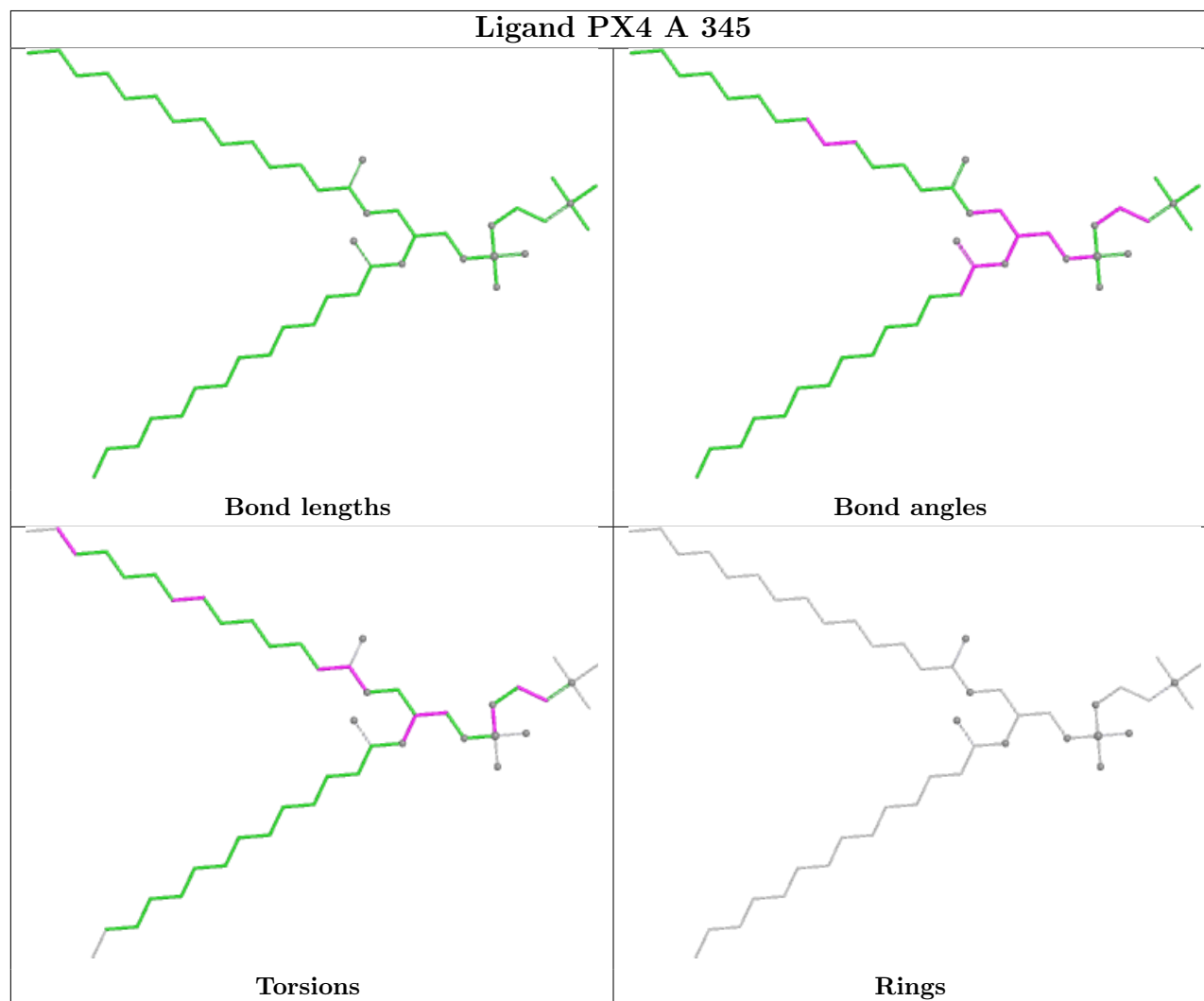
All unique torsion outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

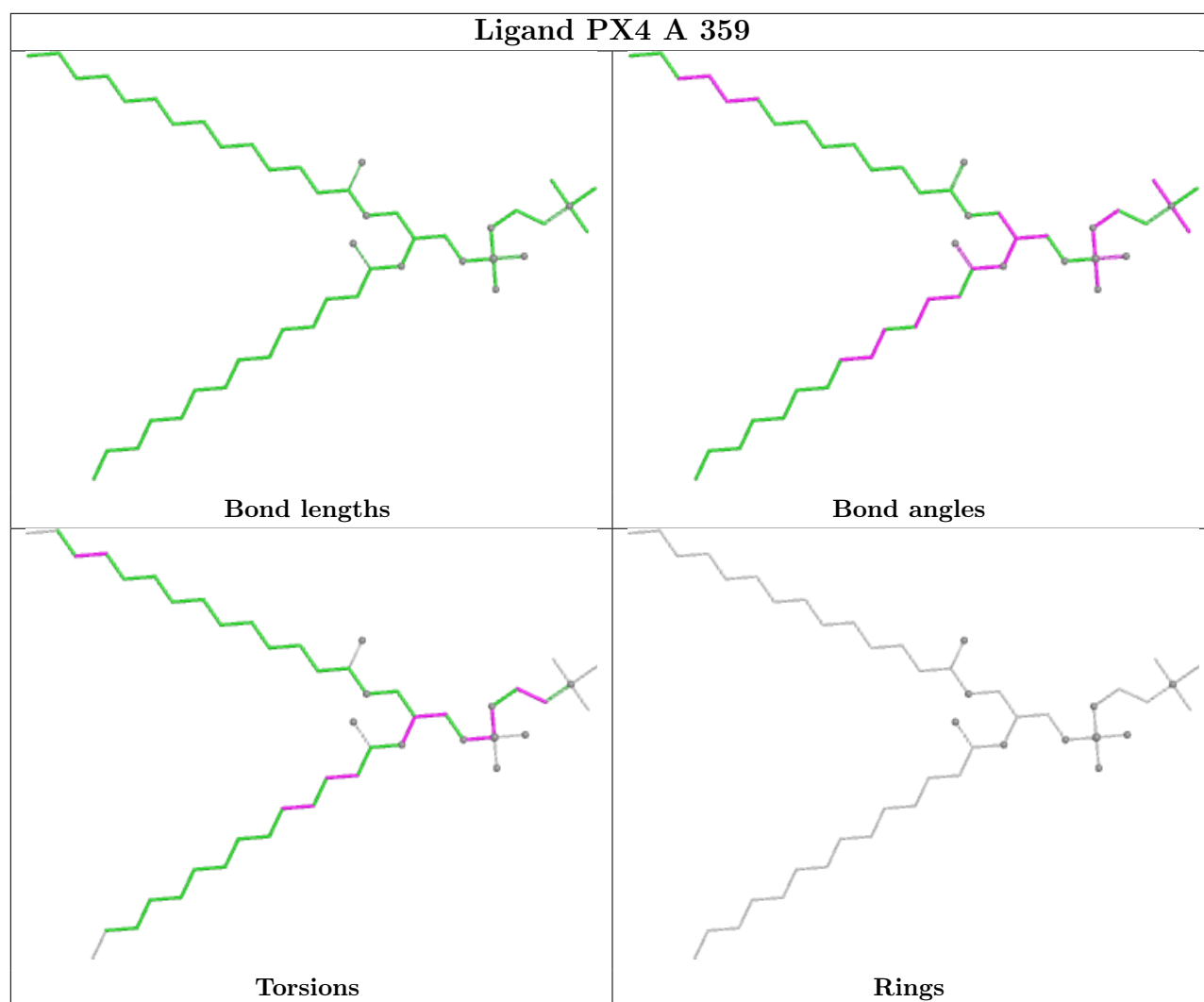
Mol	Chain	Res	Type	Atoms	Models (Total)
4	A	414	PX4	O8-C23-O7-C7	4
4	A	331	PX4	O8-C23-O7-C7	2
4	A	321	PX4	O8-C23-O7-C7	1
4	A	323	PX4	O8-C23-O7-C7	1

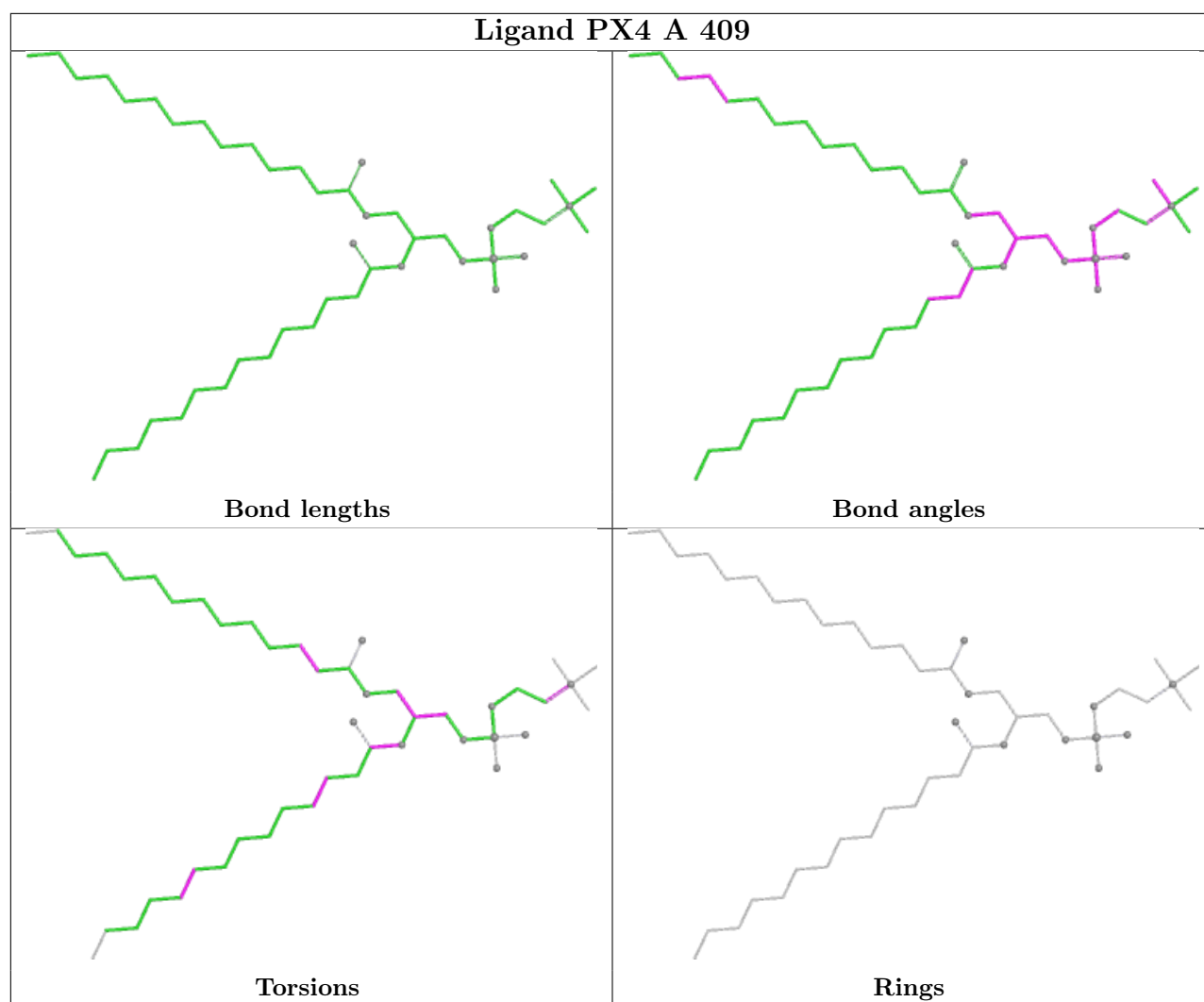
There are no ring outliers.

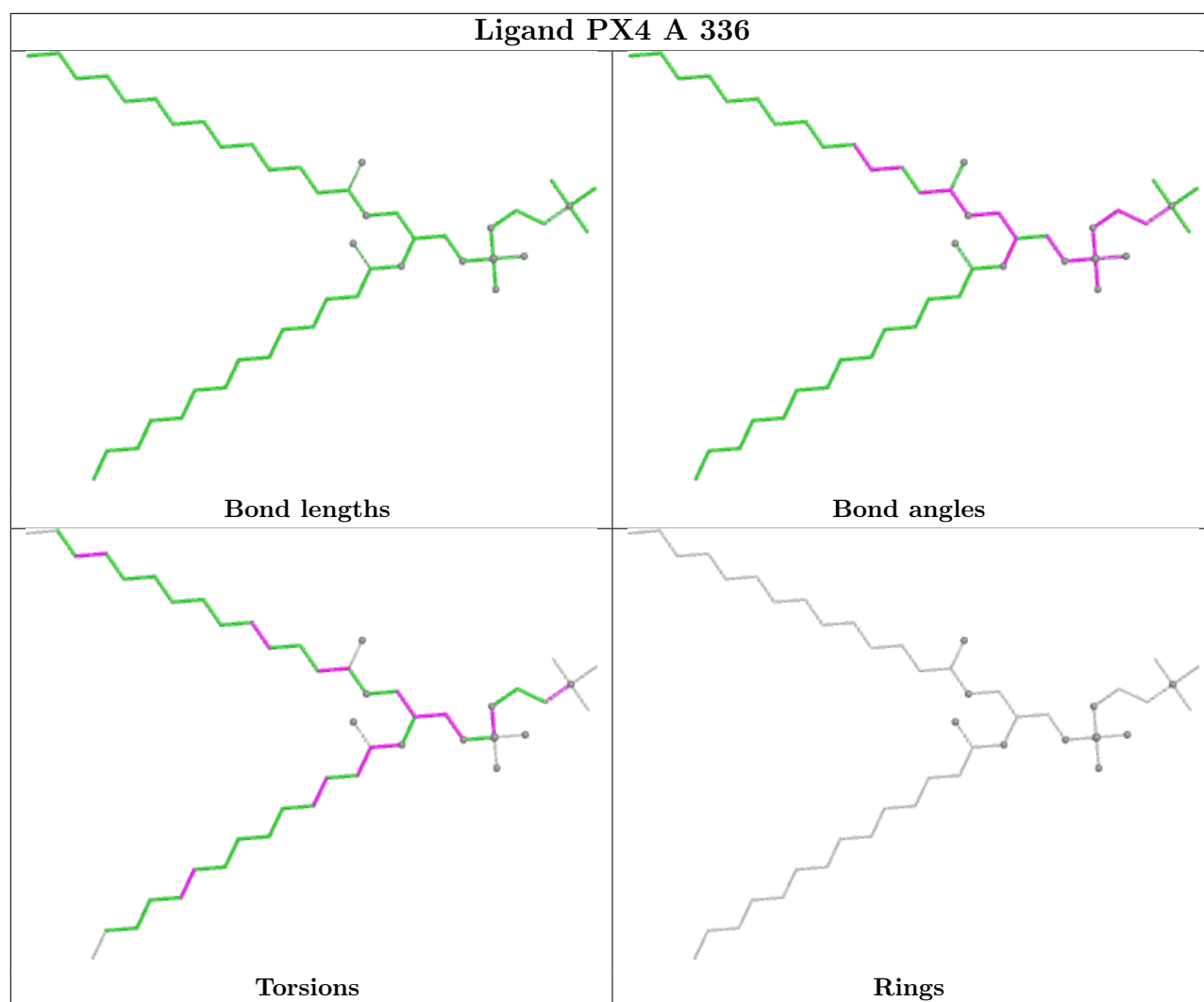
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

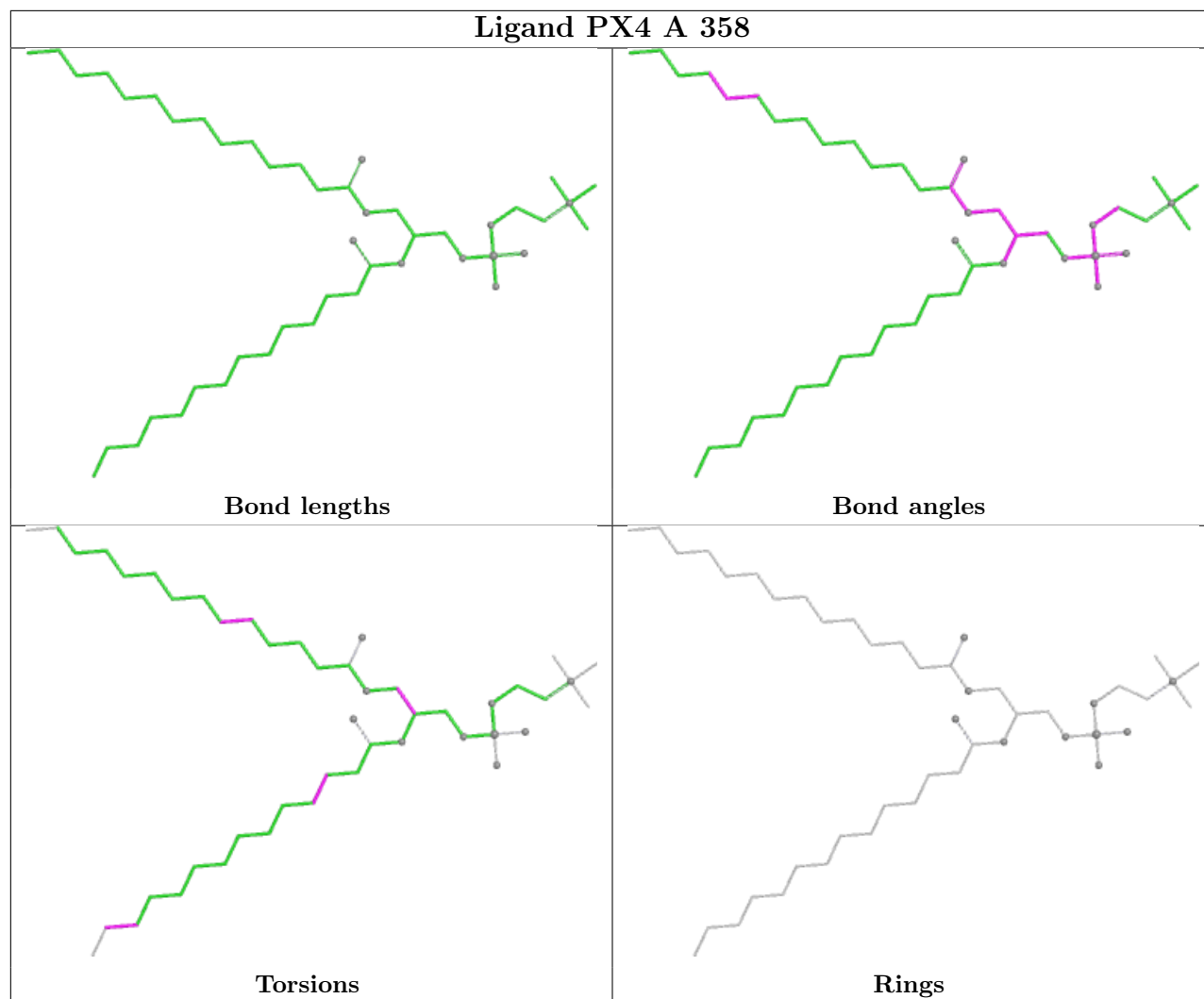
Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD 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.

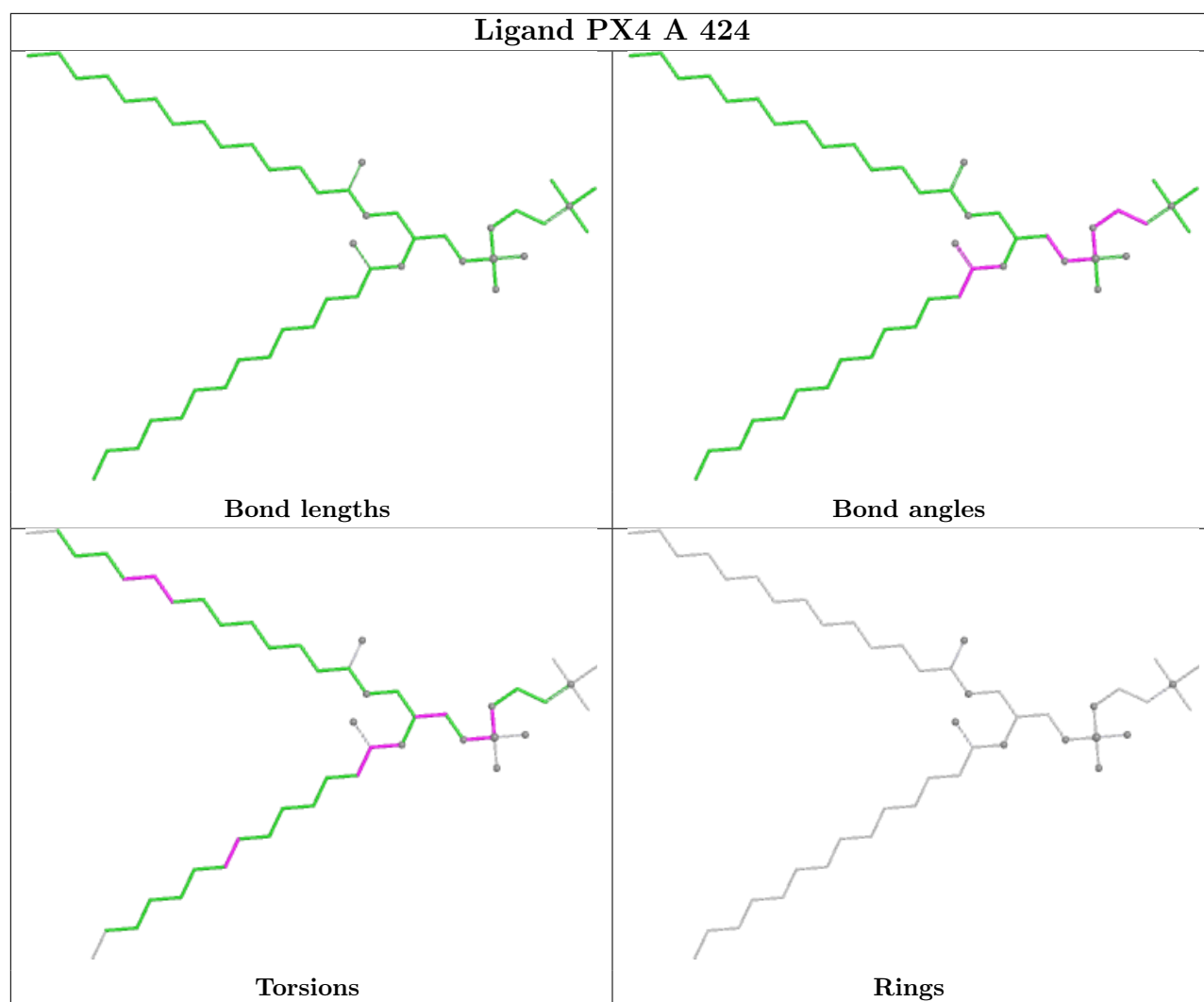


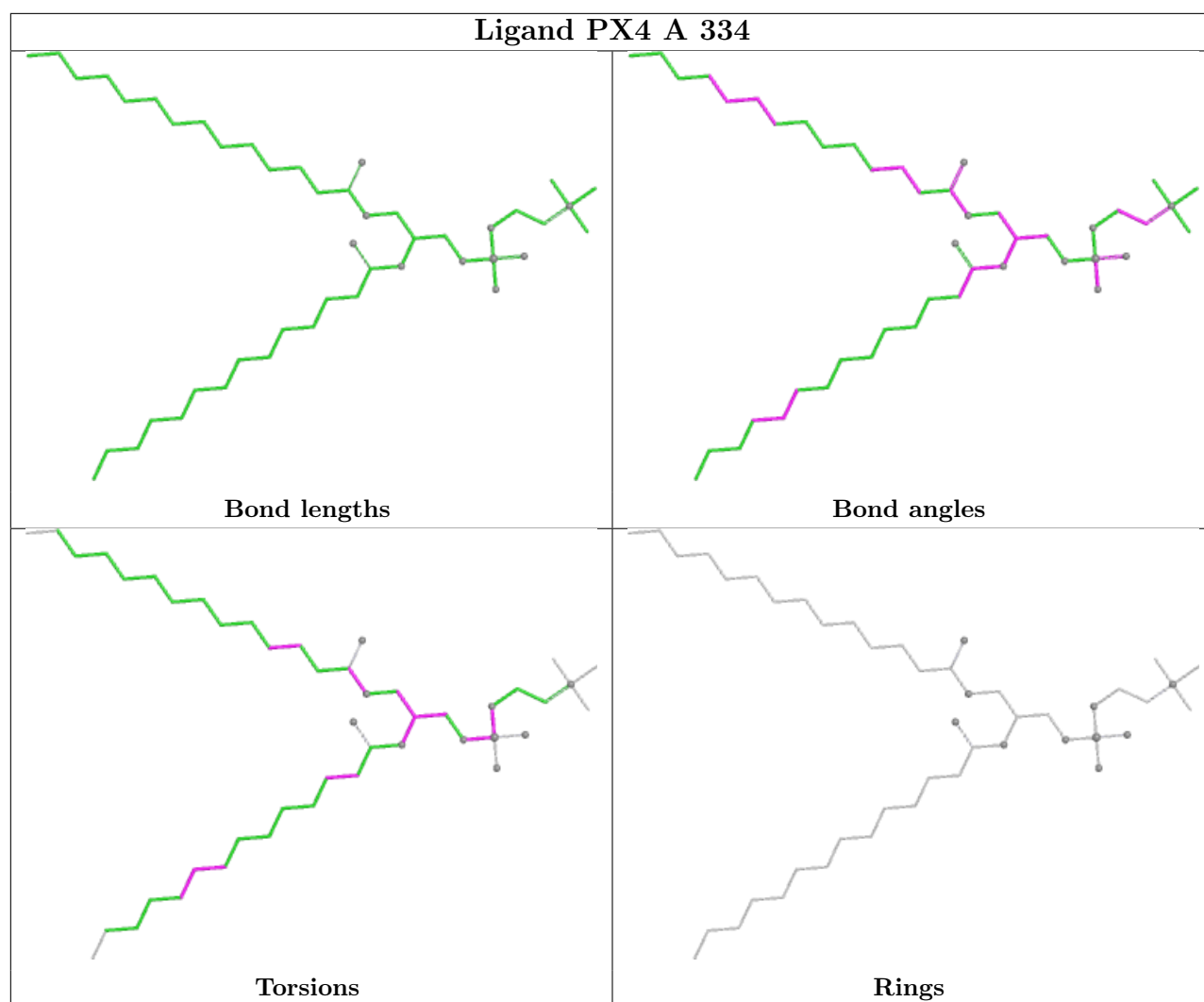


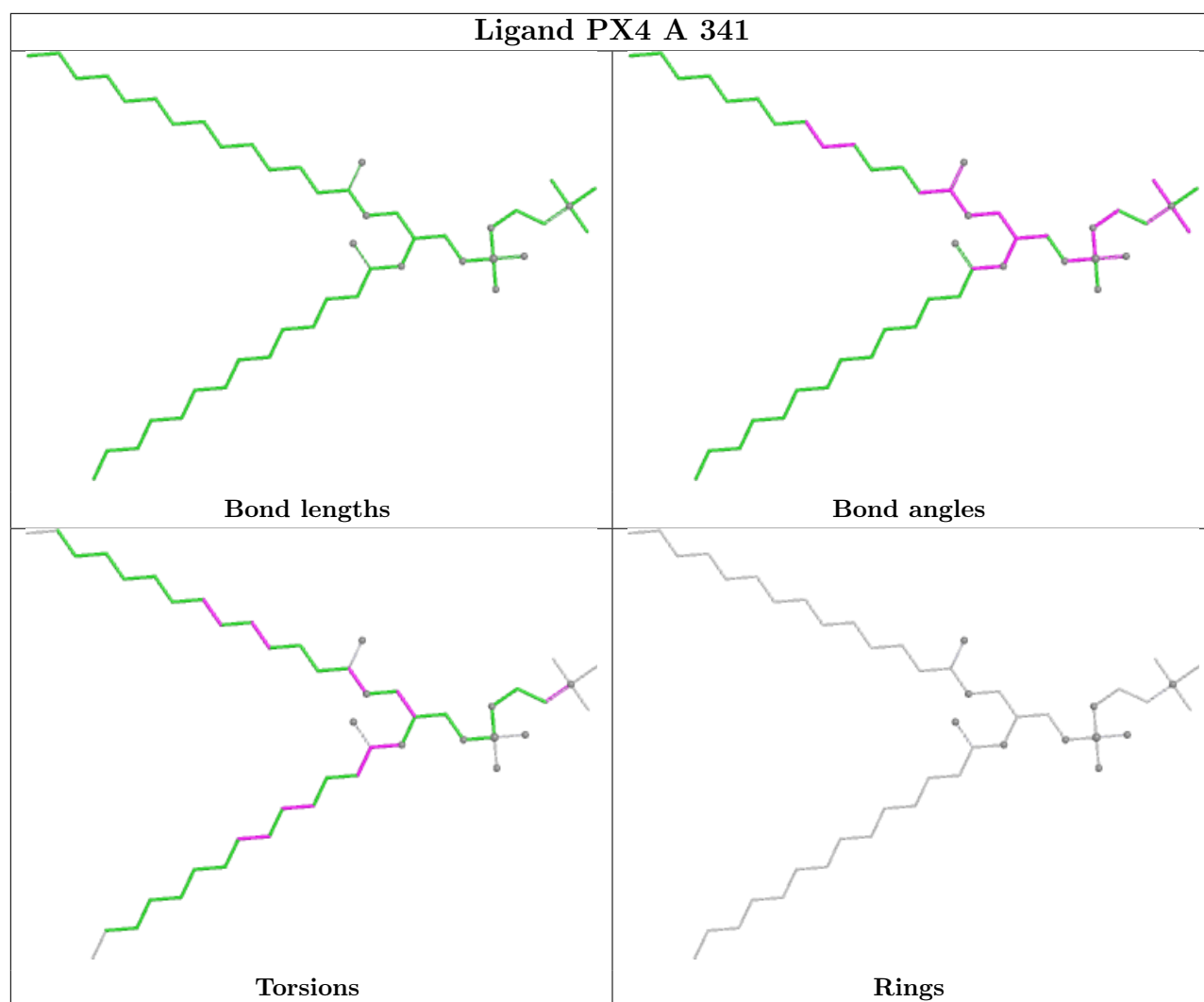


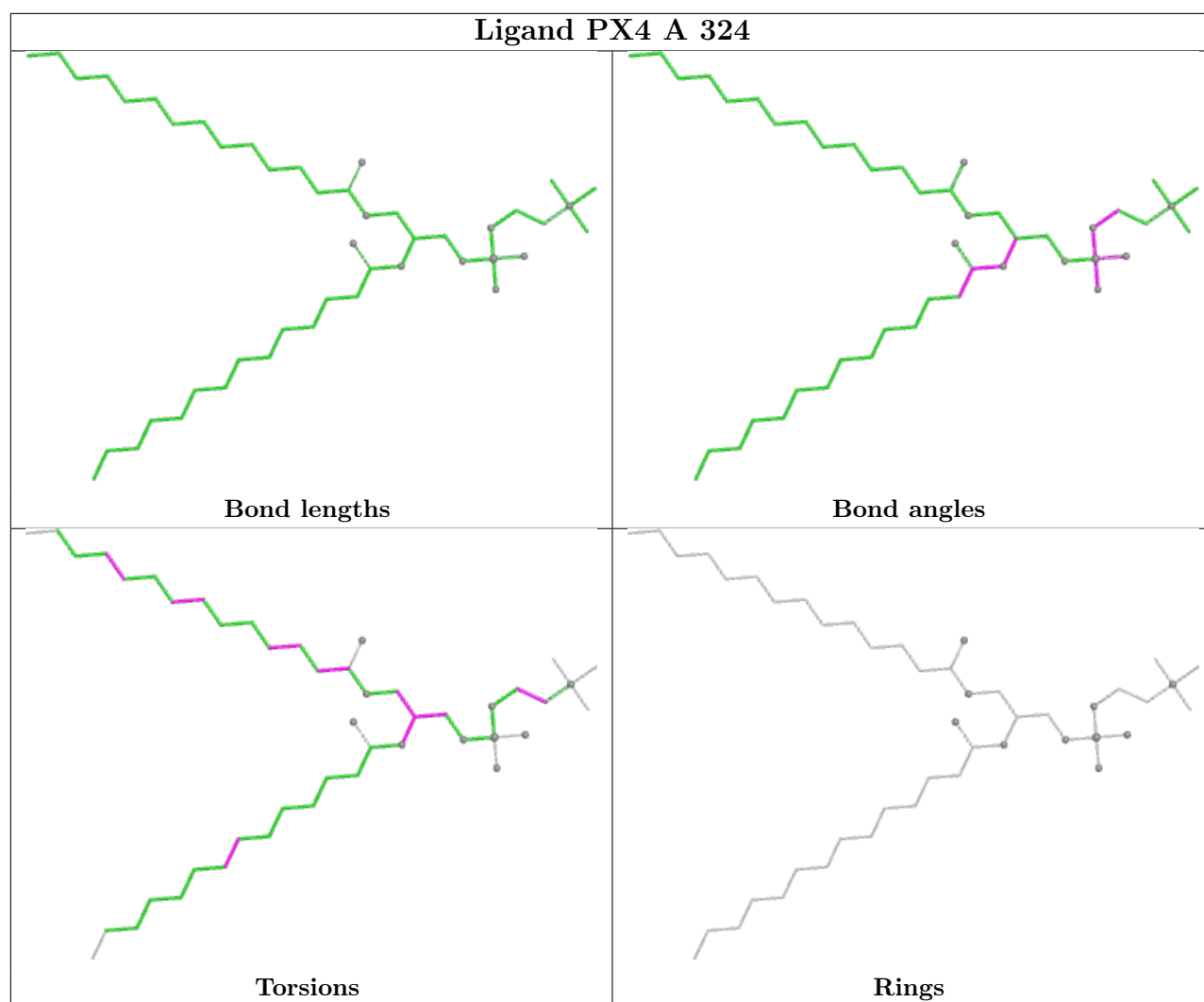


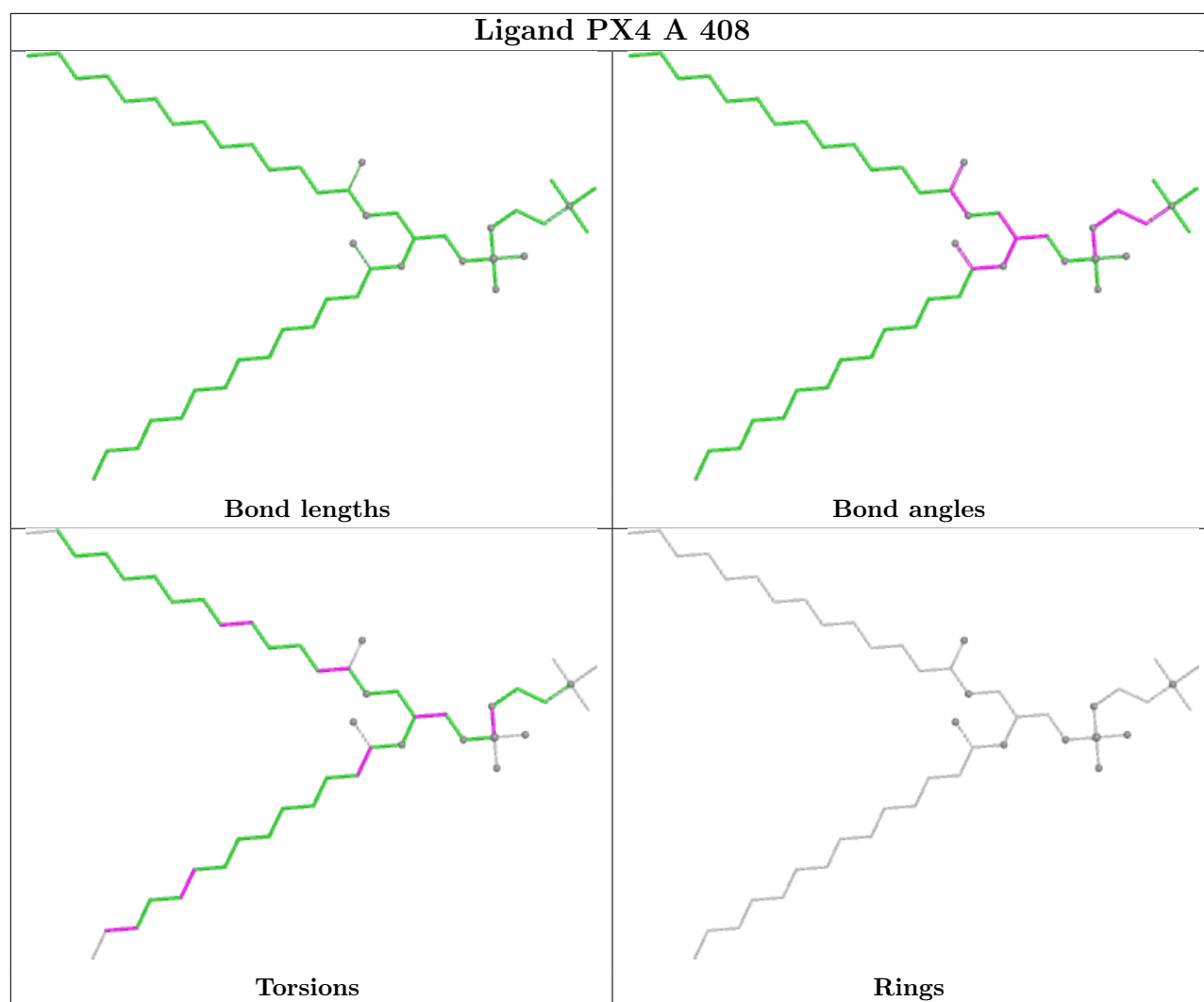


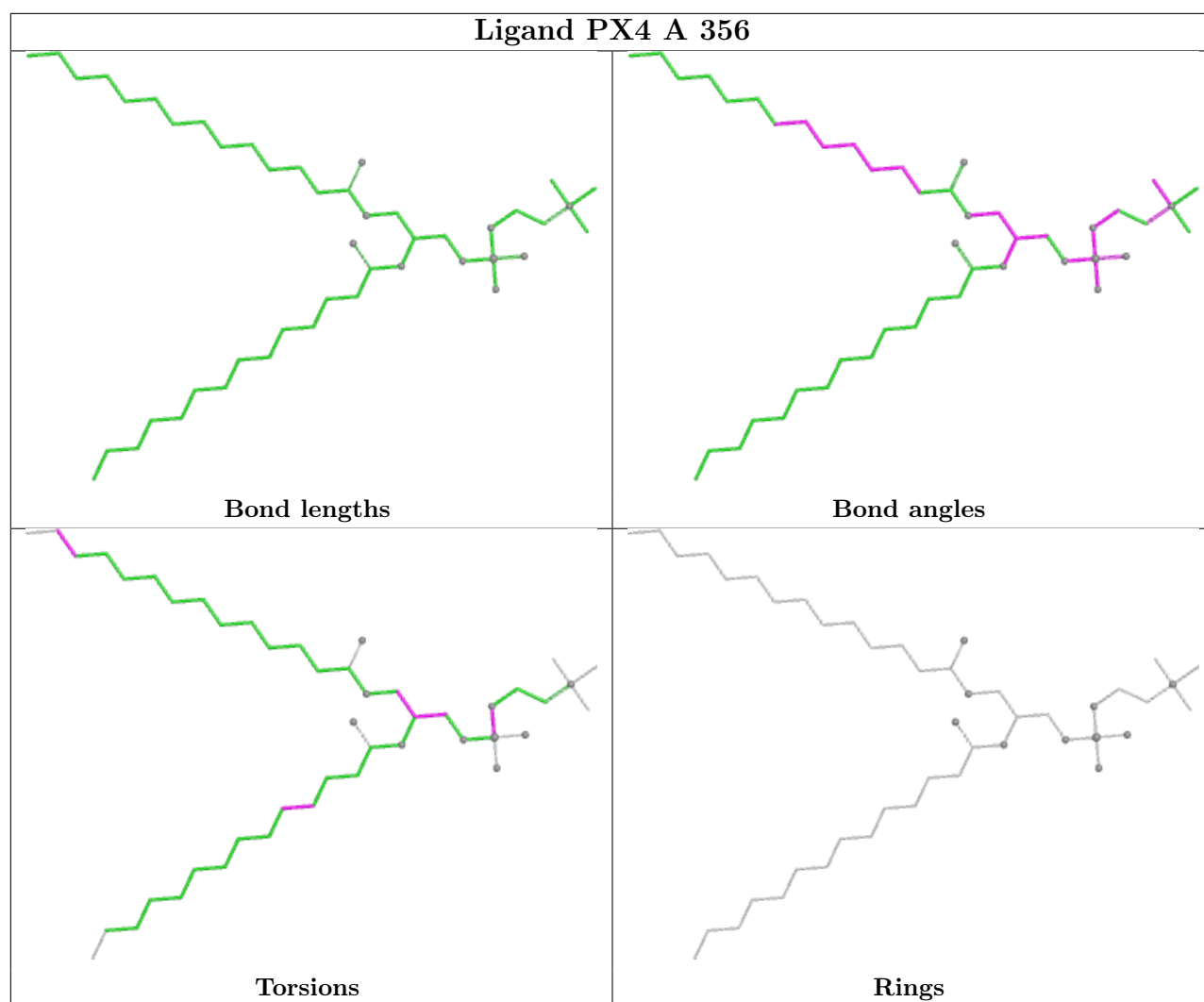


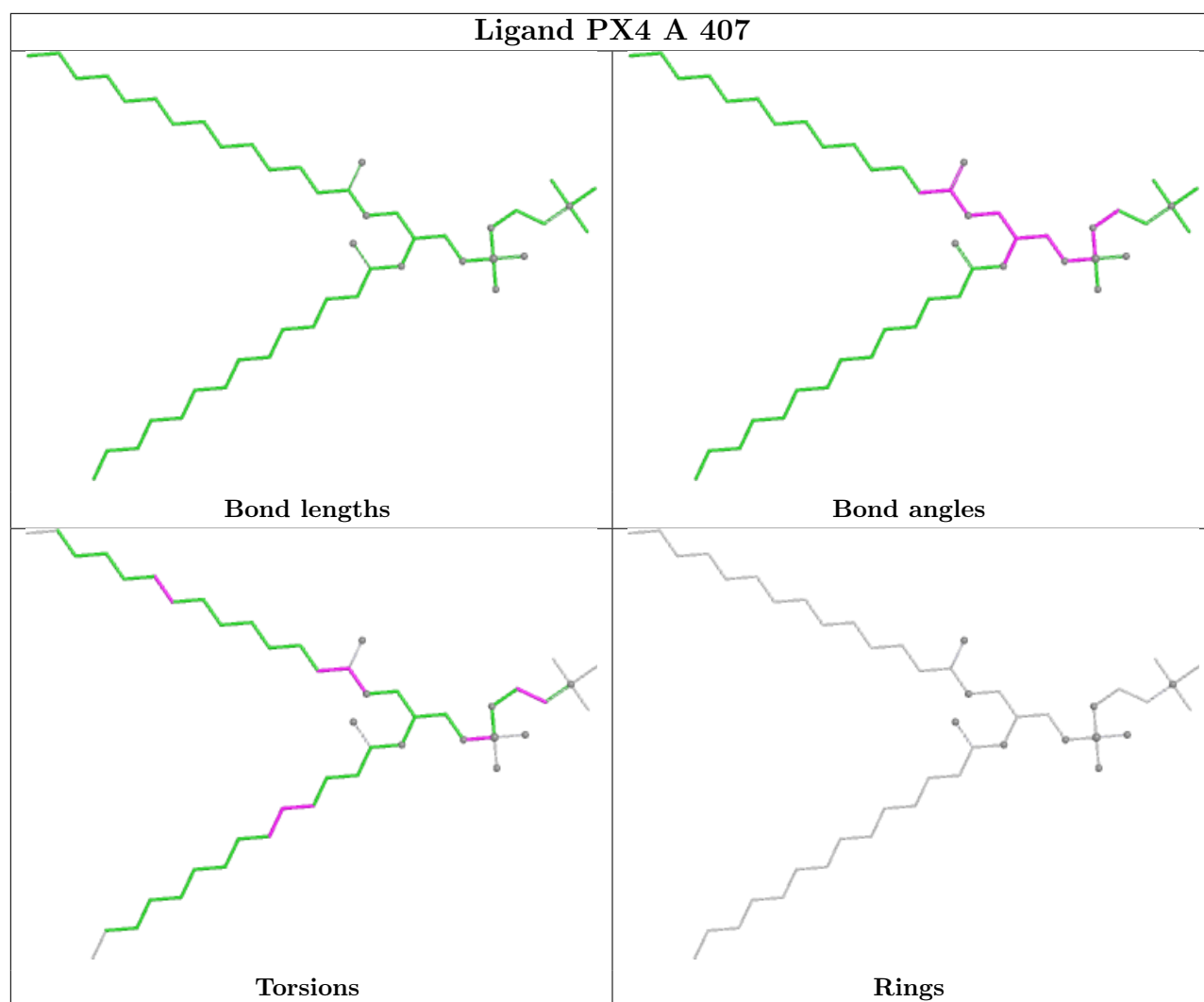


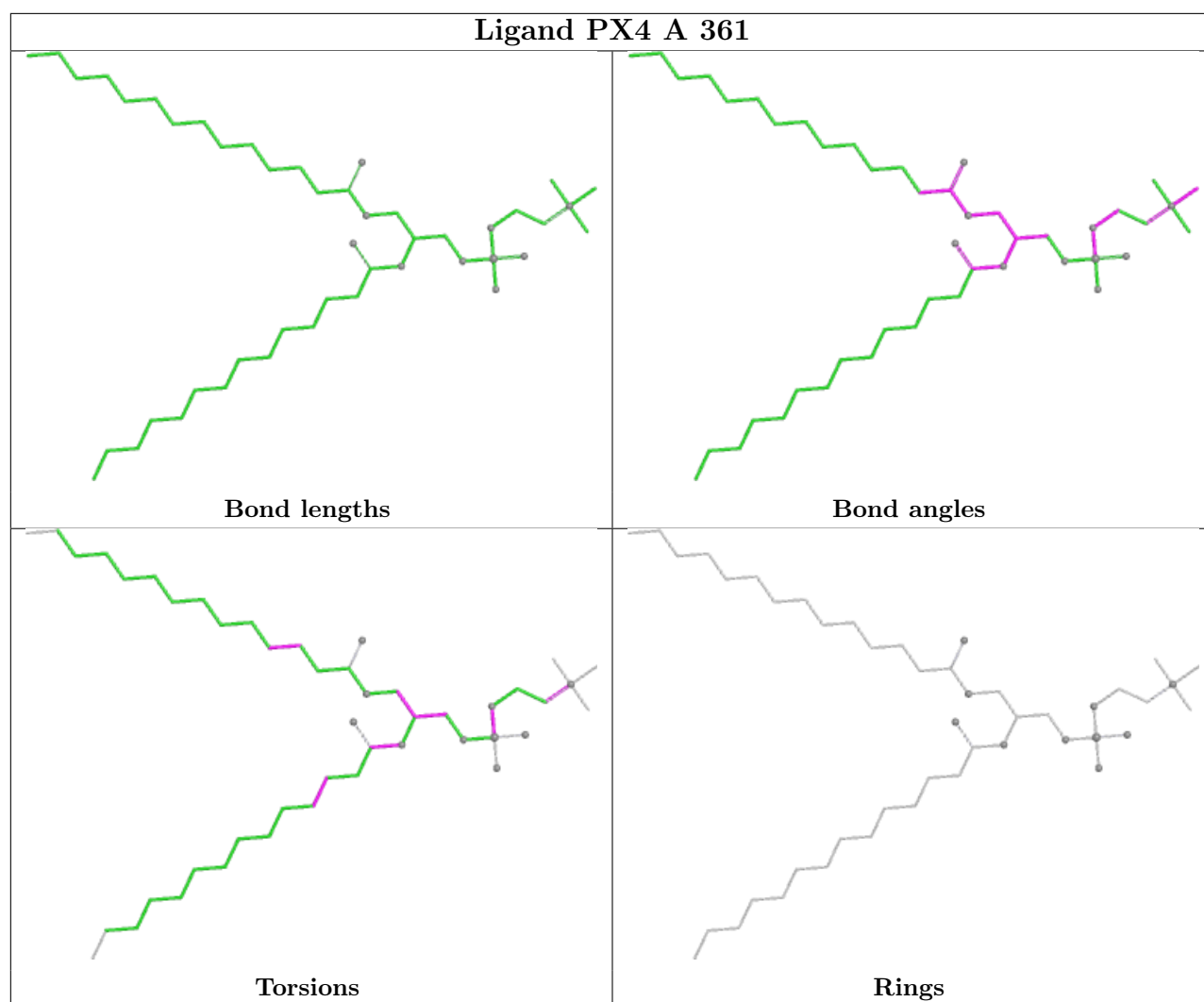


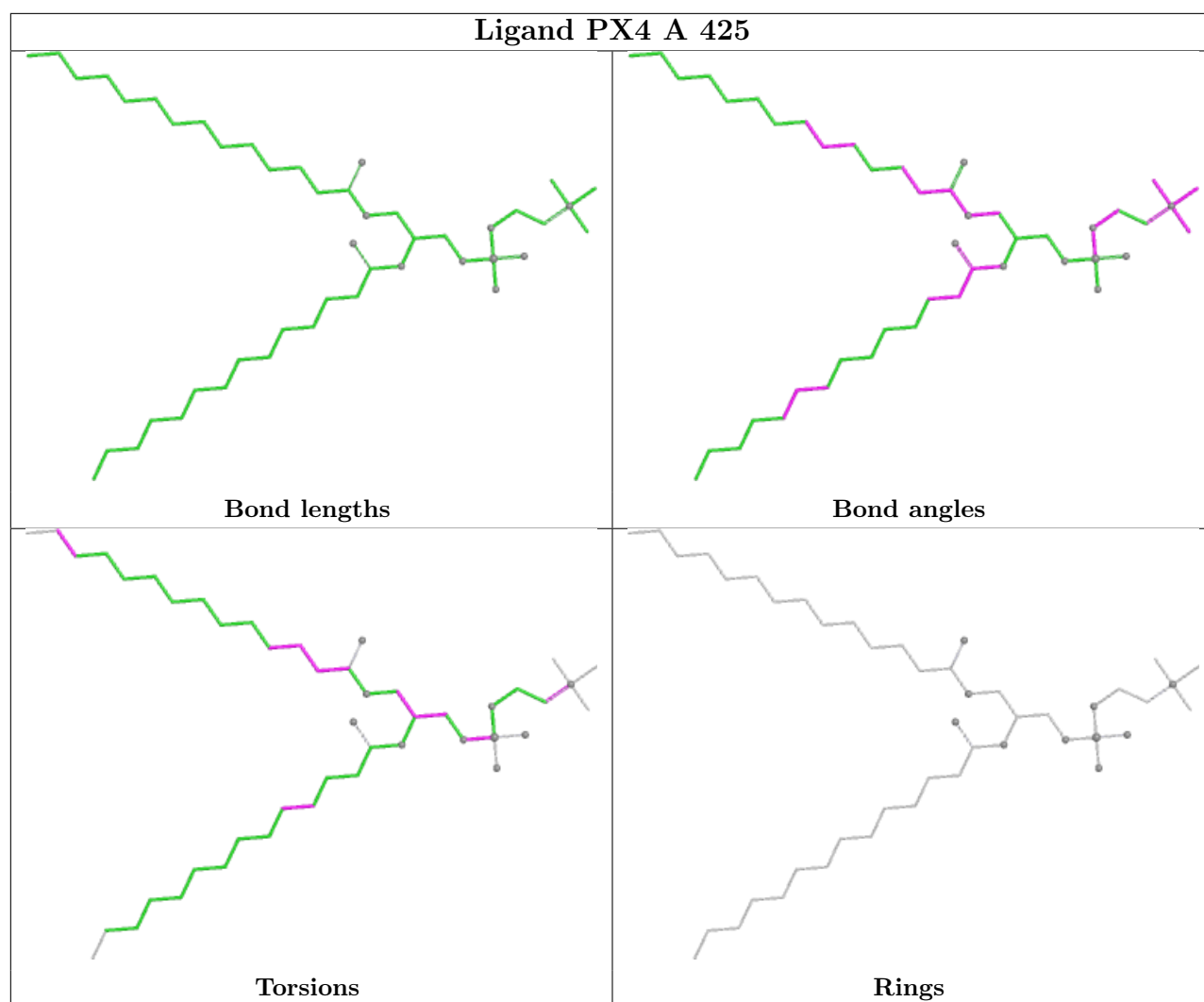


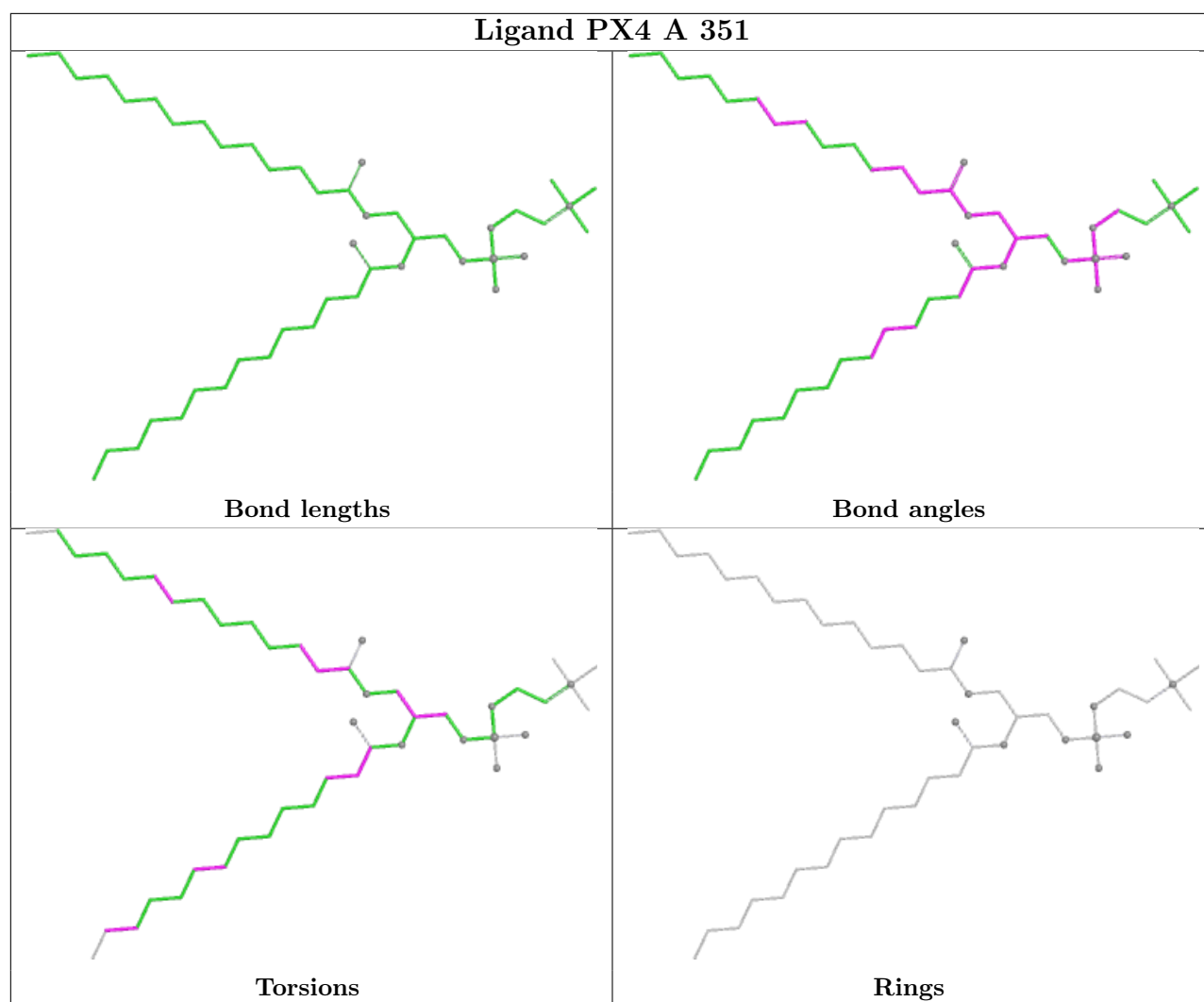


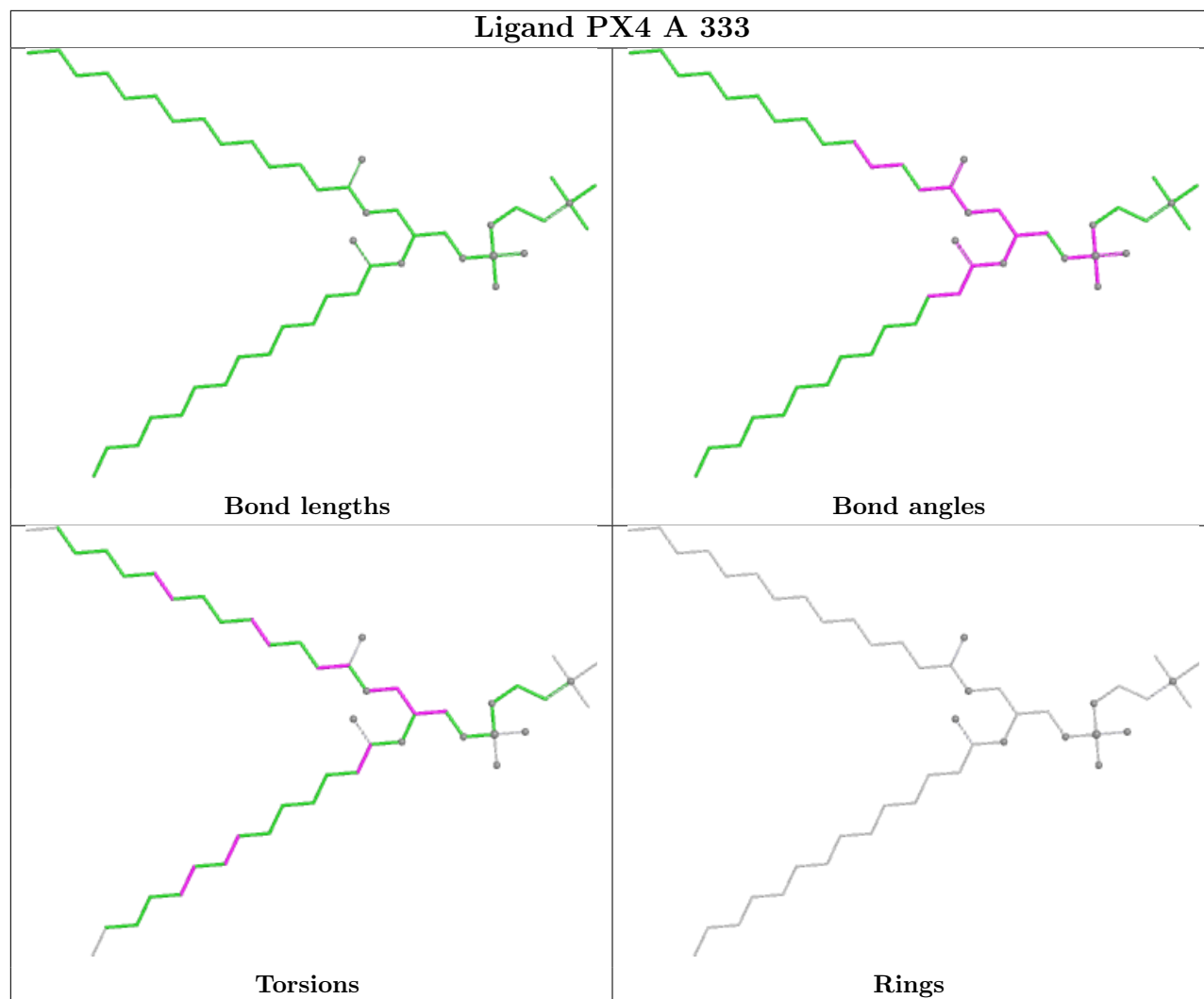


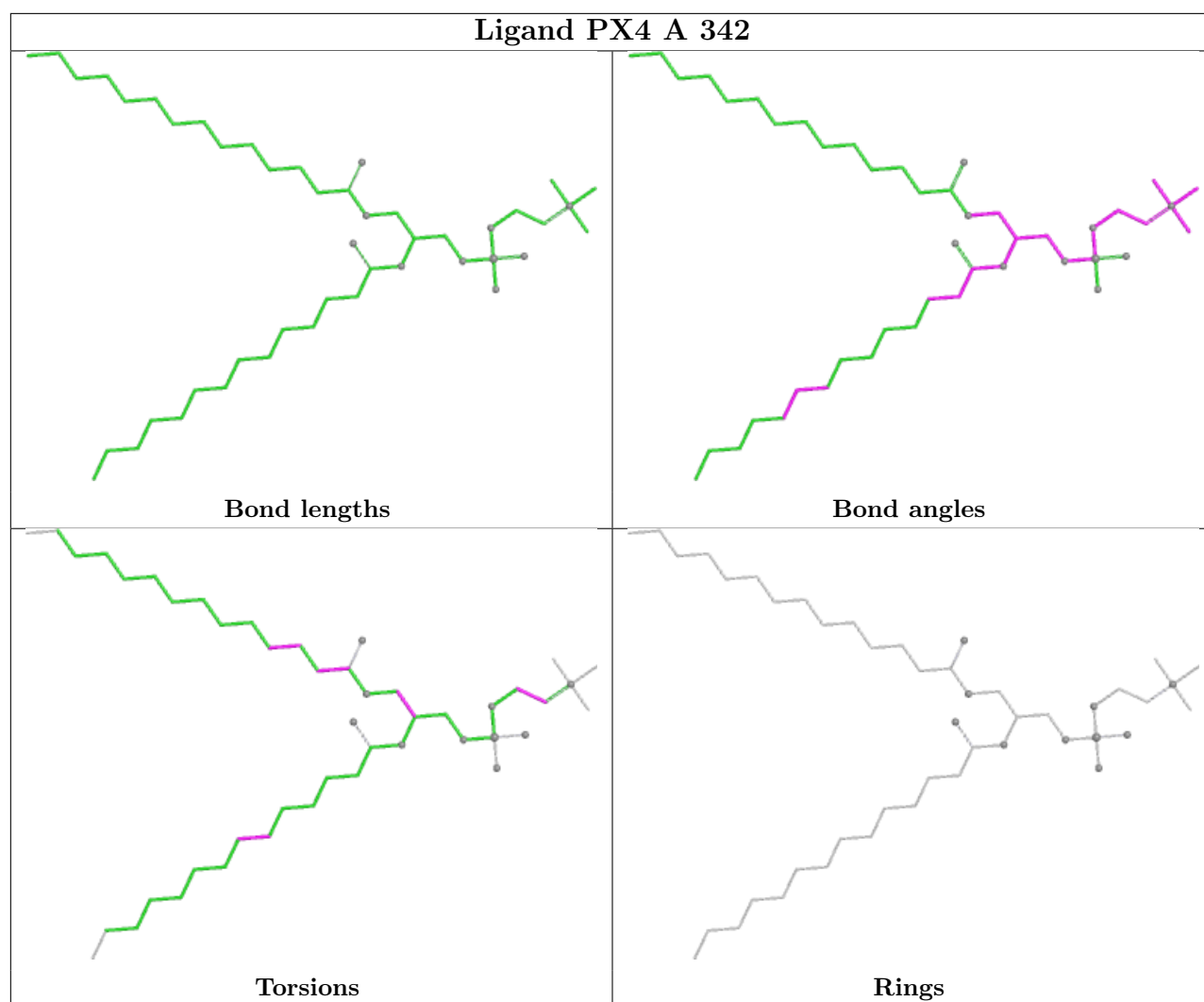


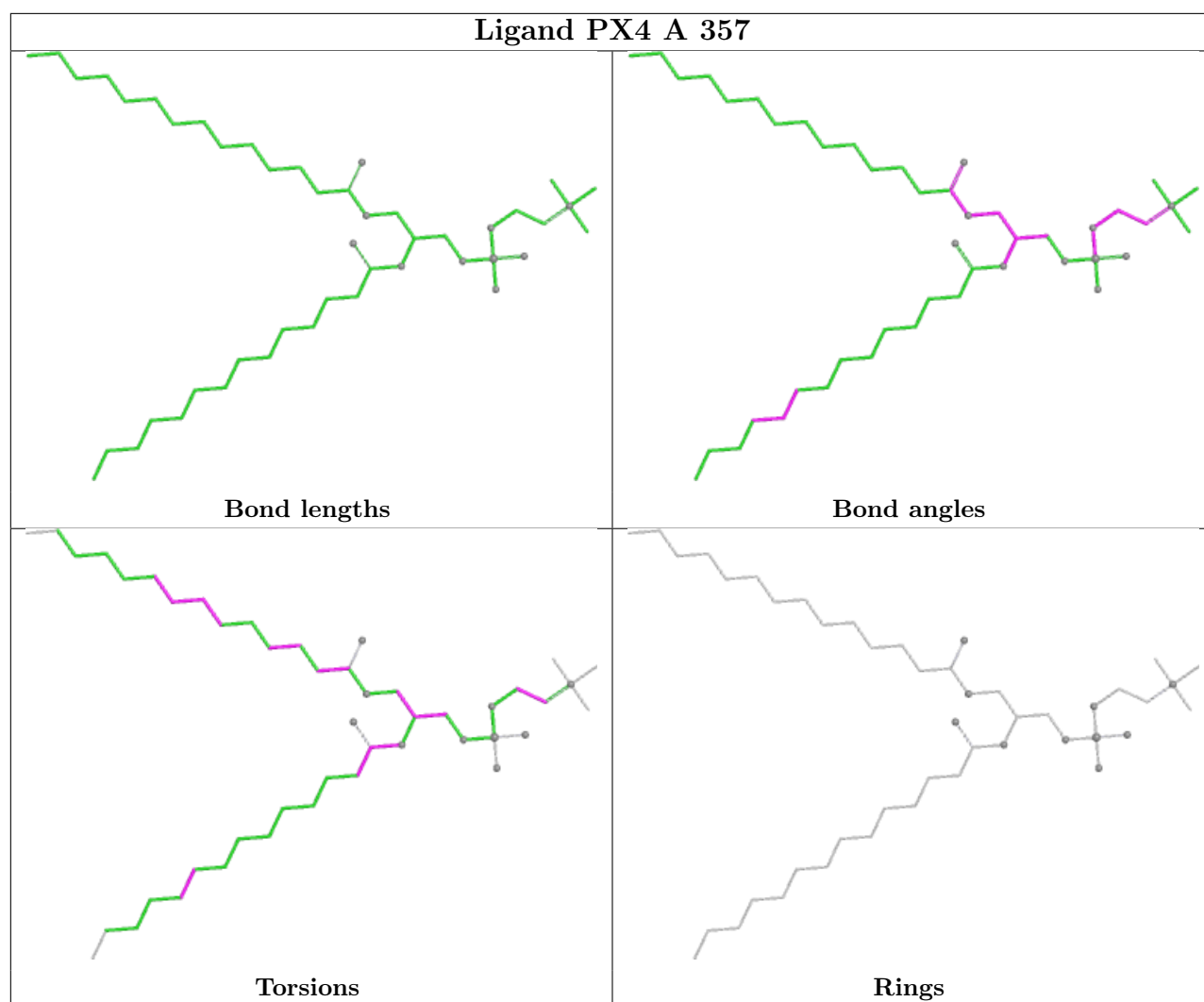


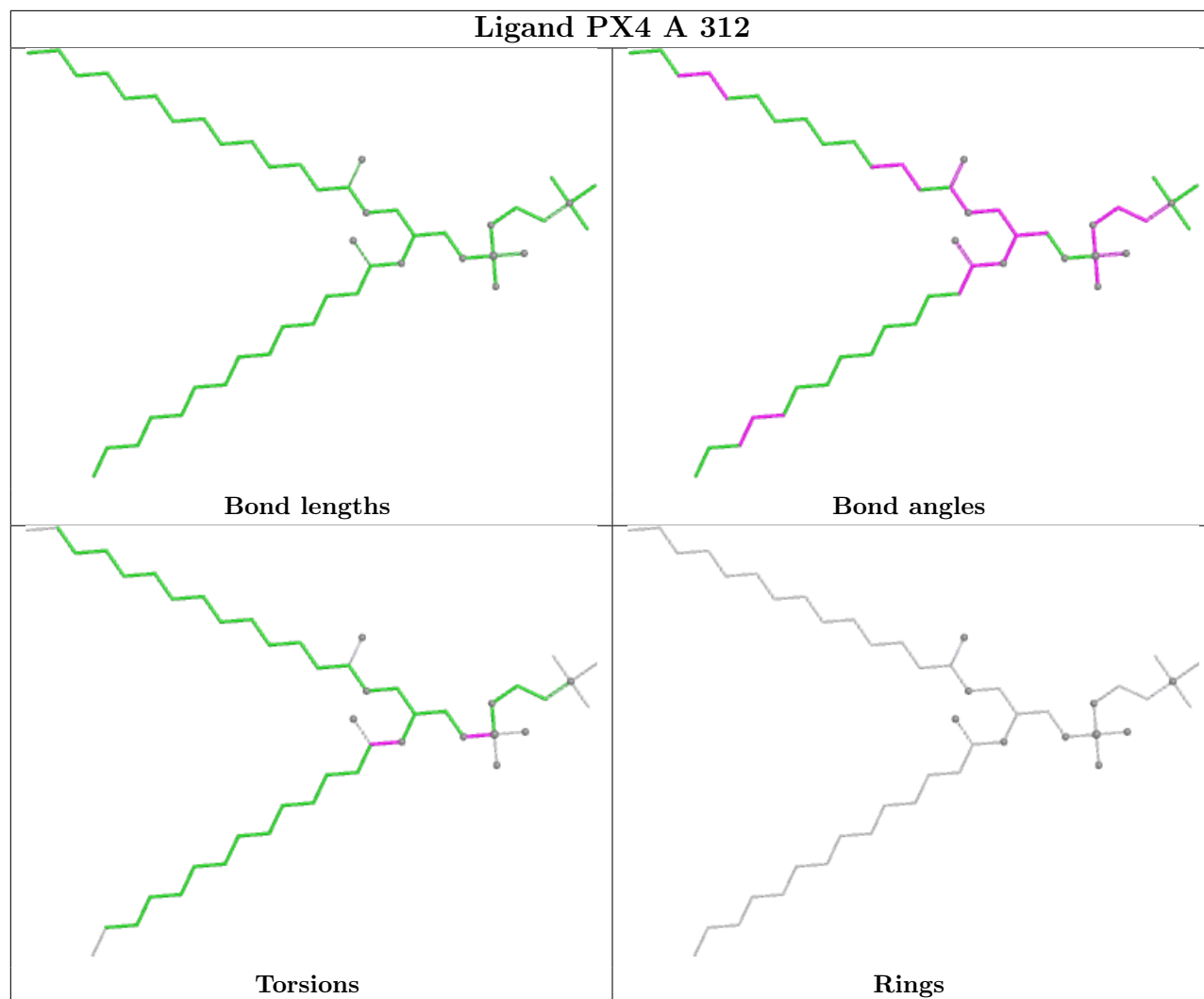


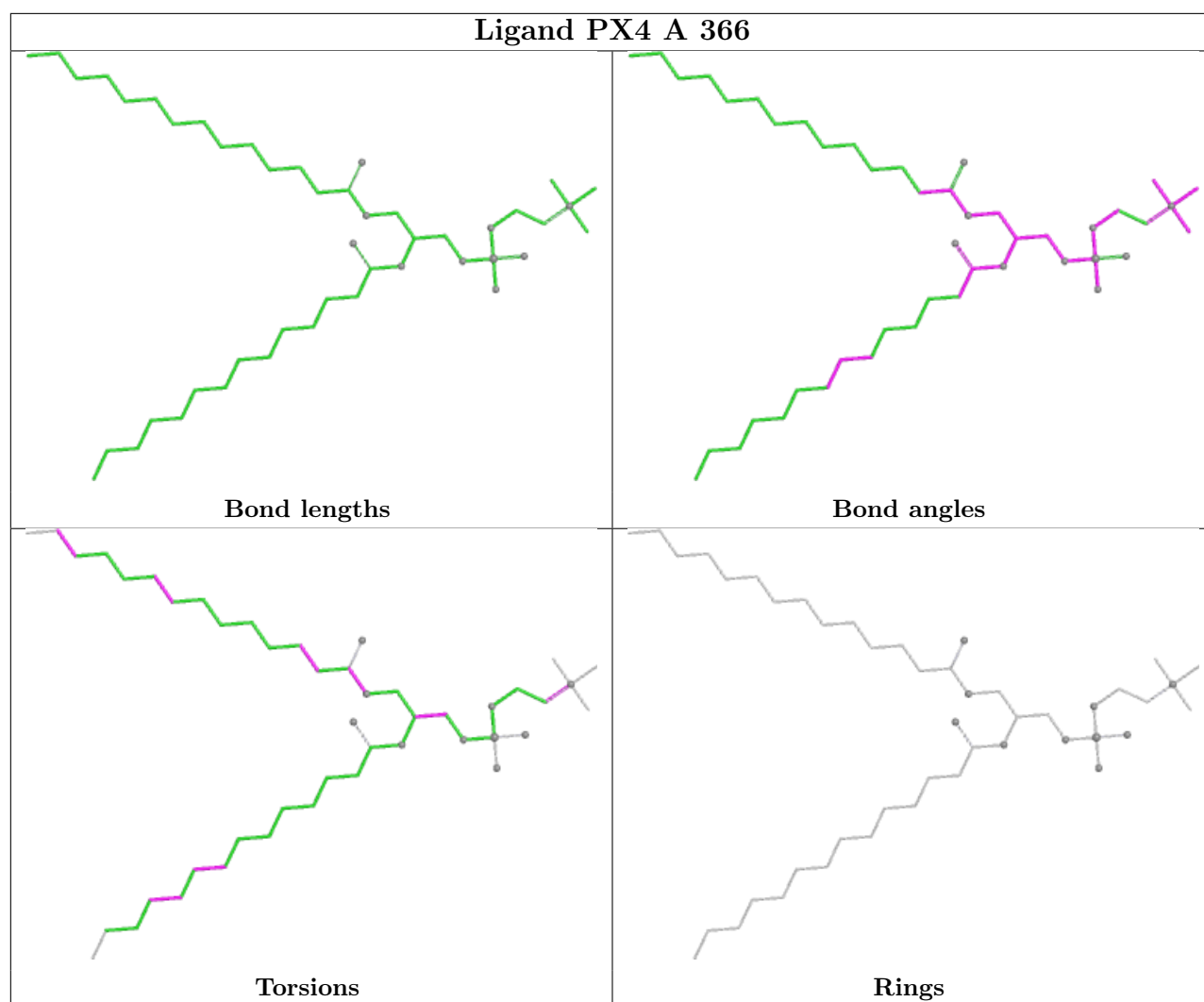




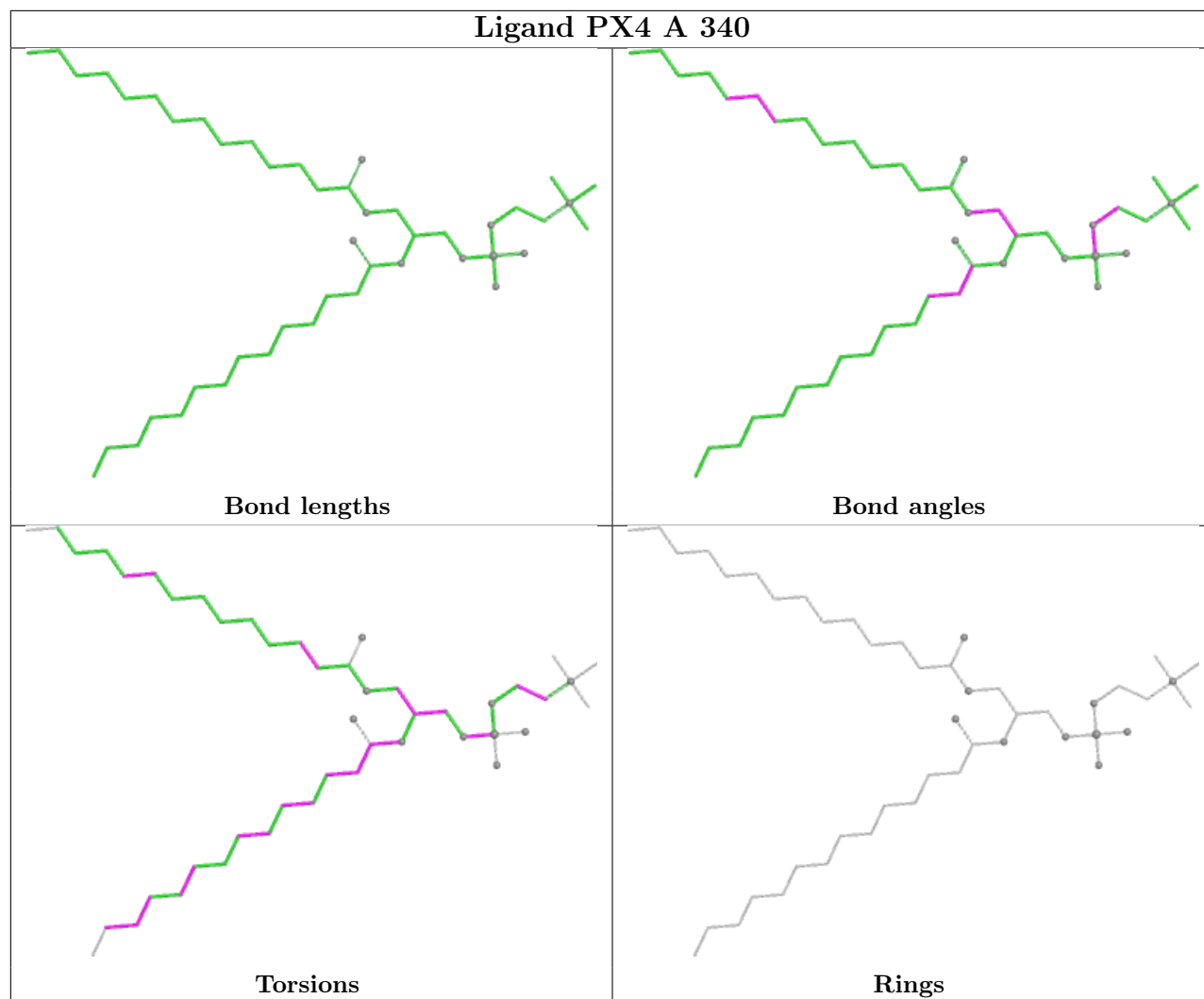


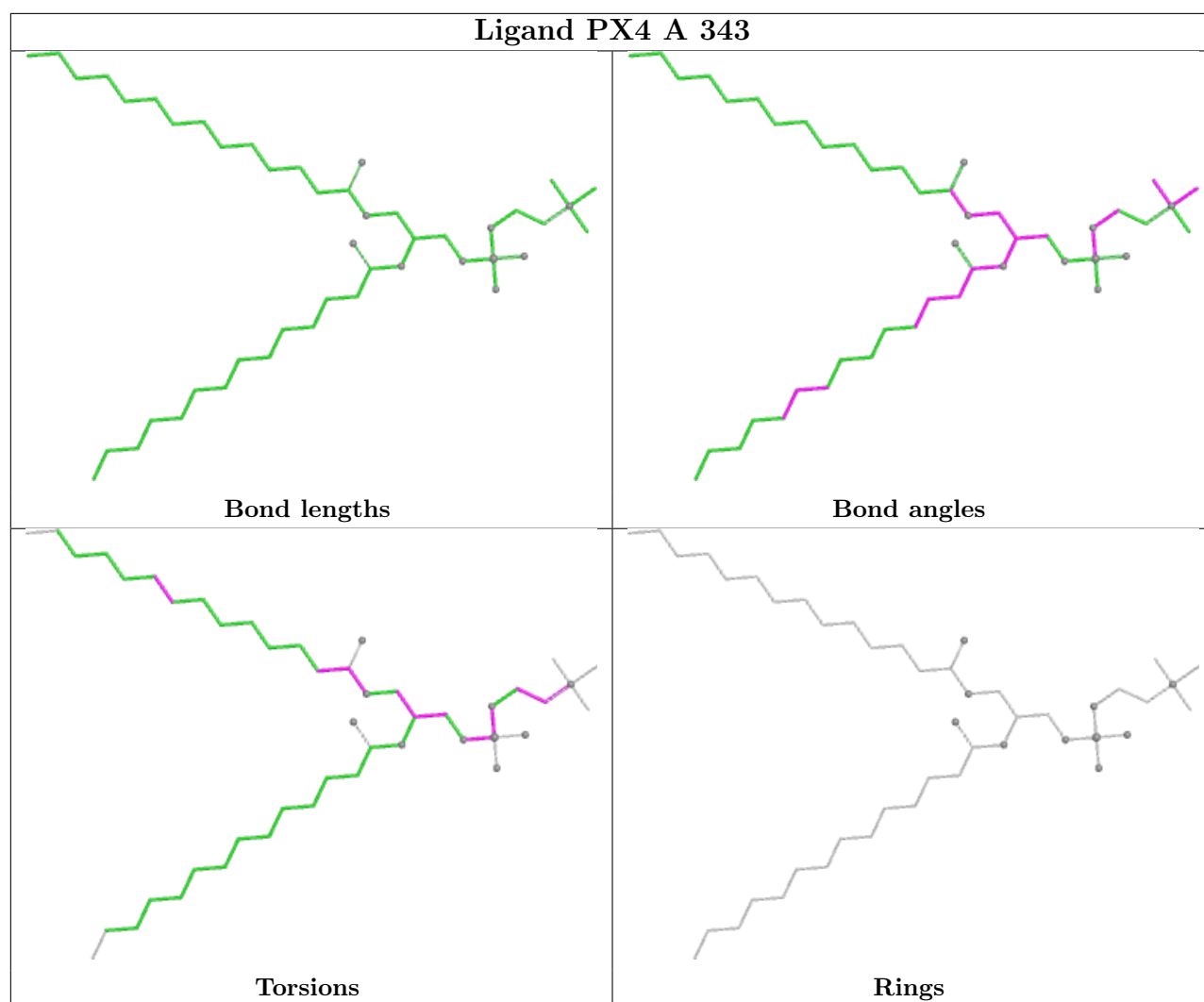


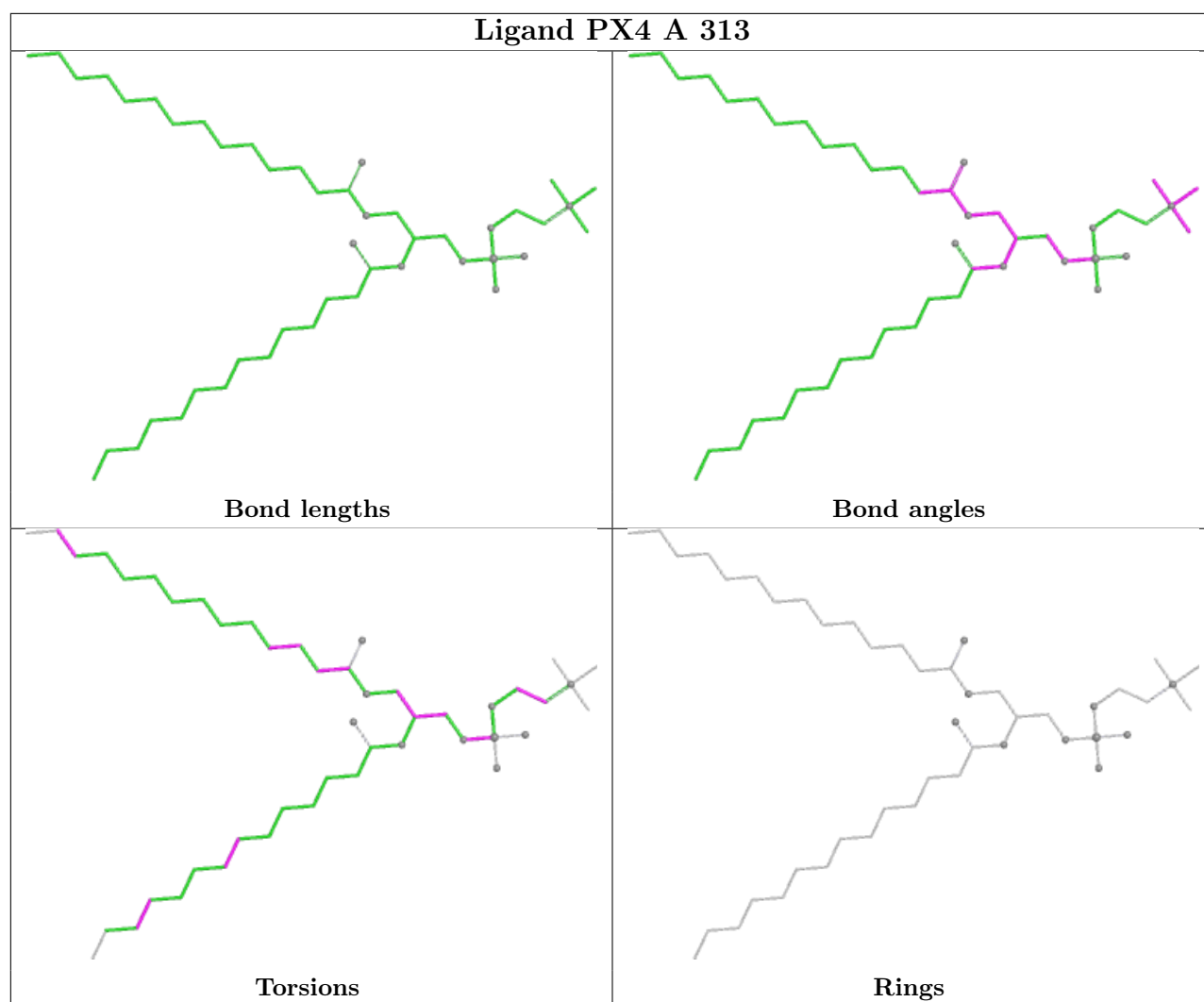


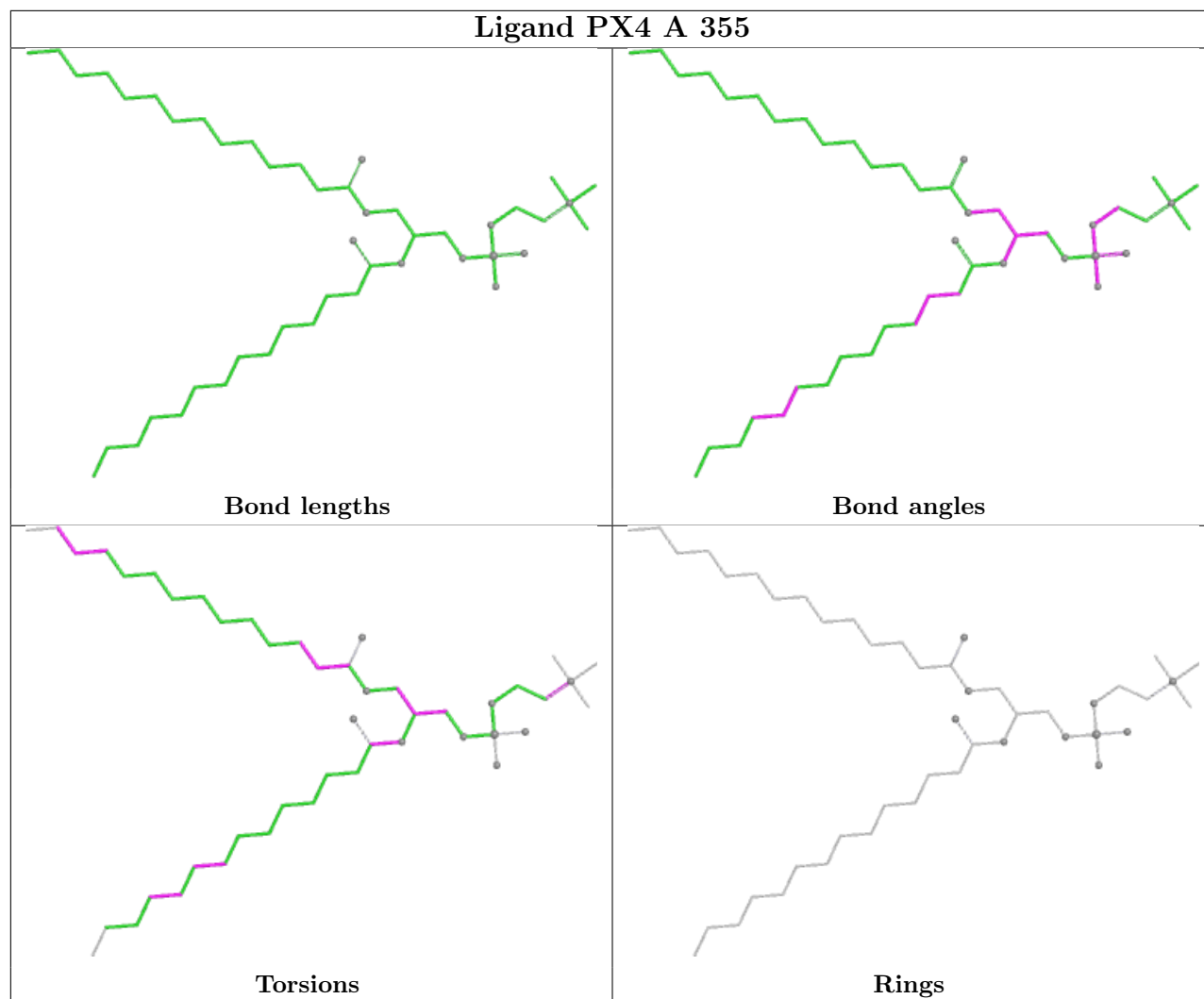


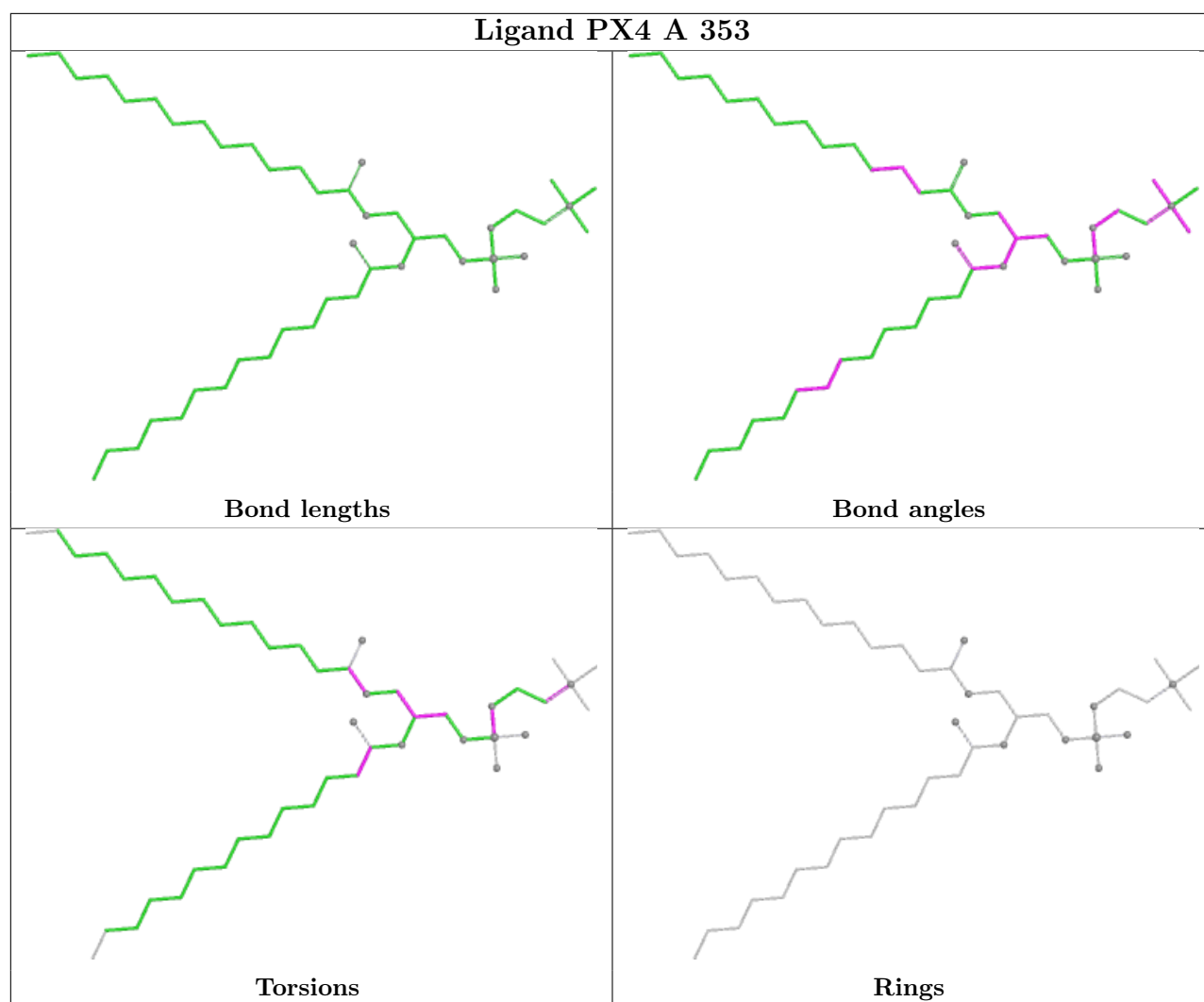
Ligand PX4 A 340

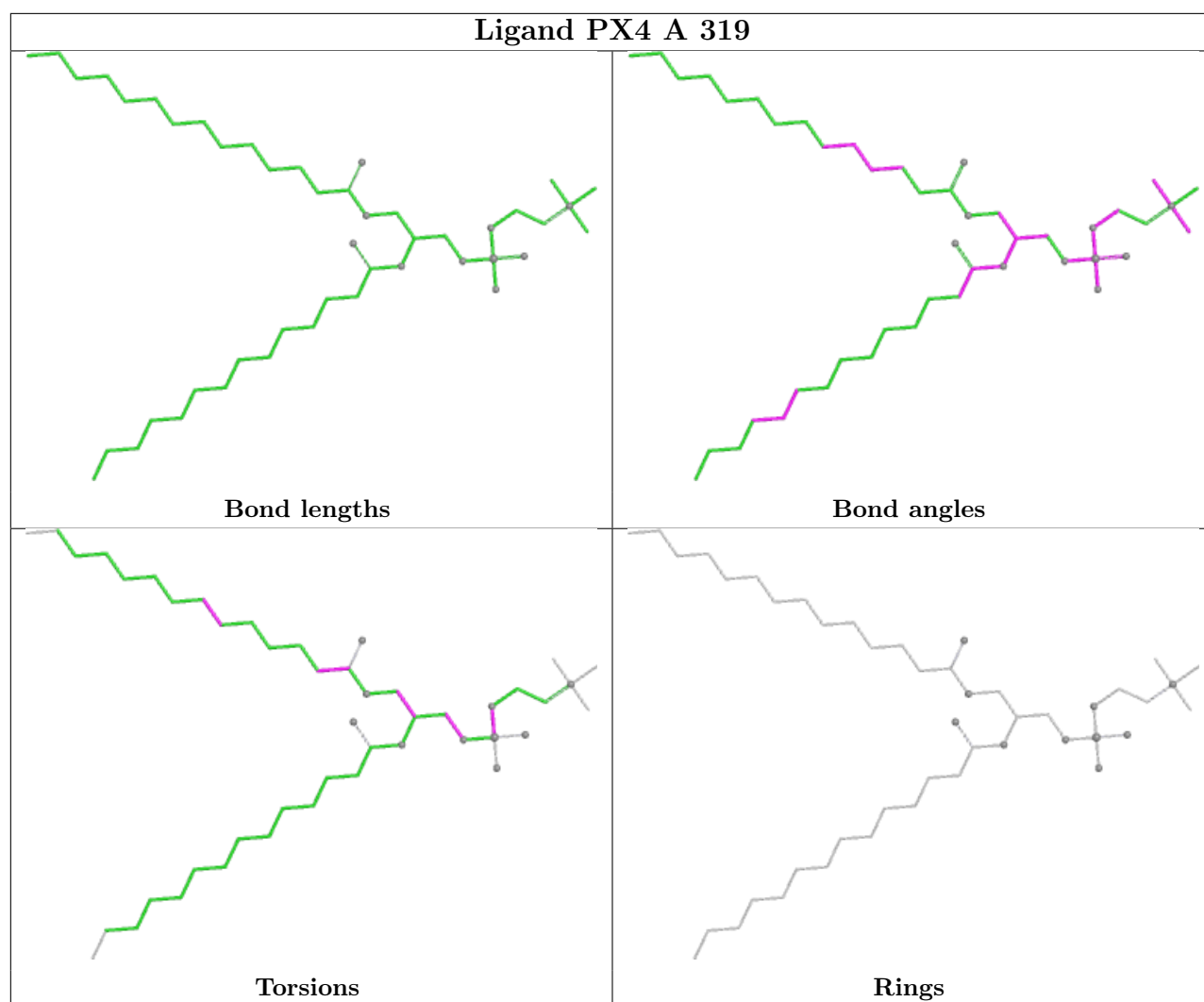


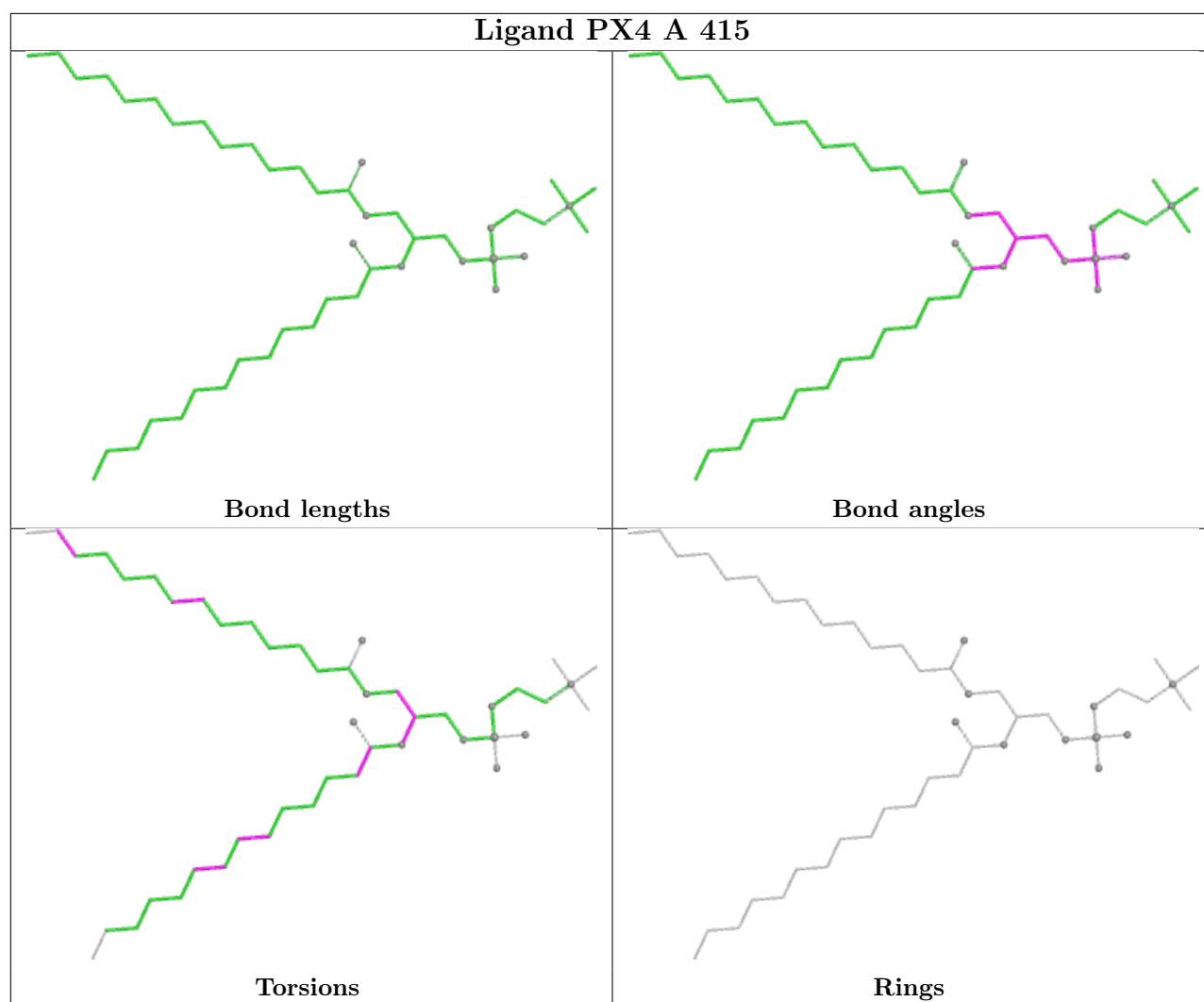


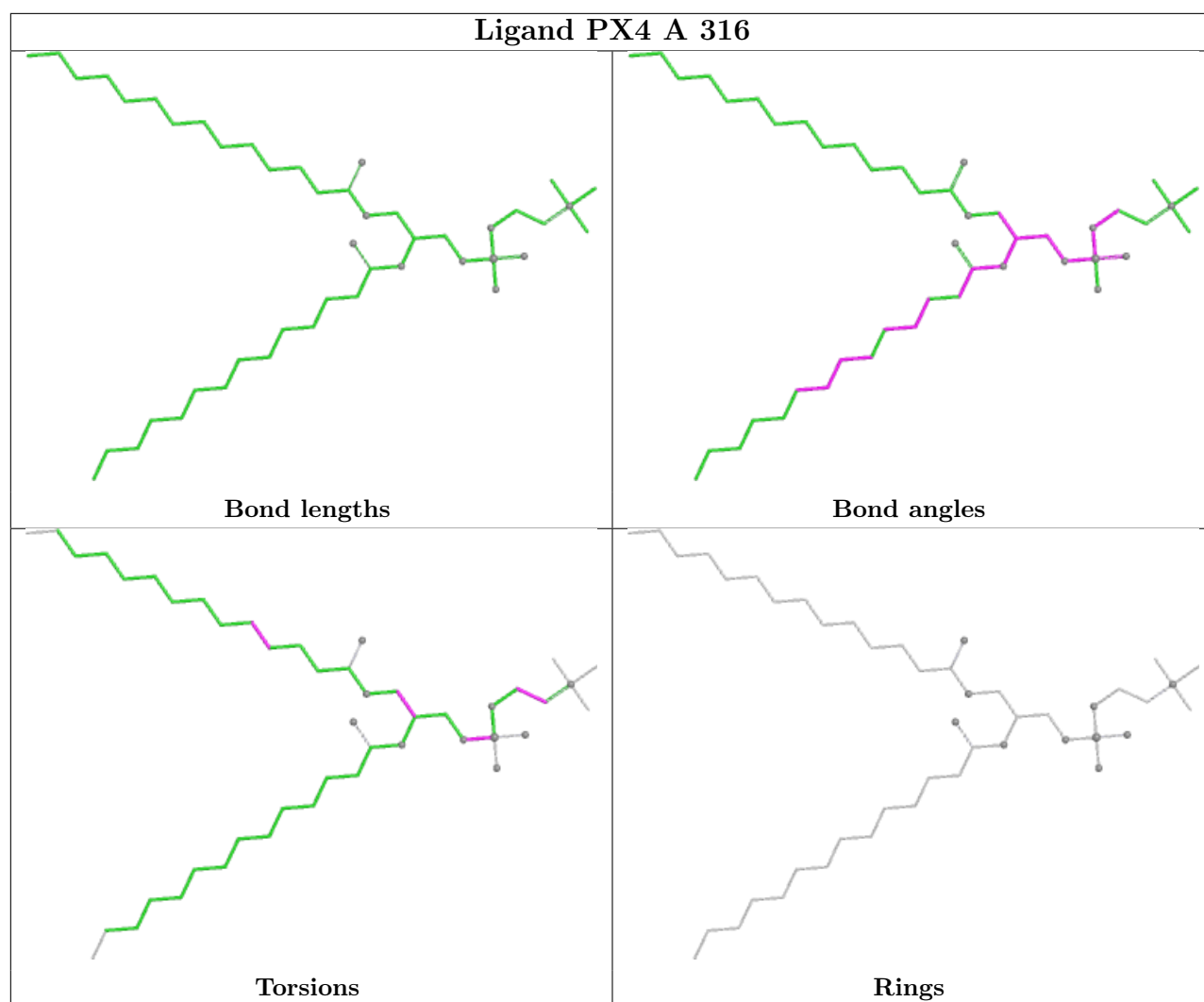


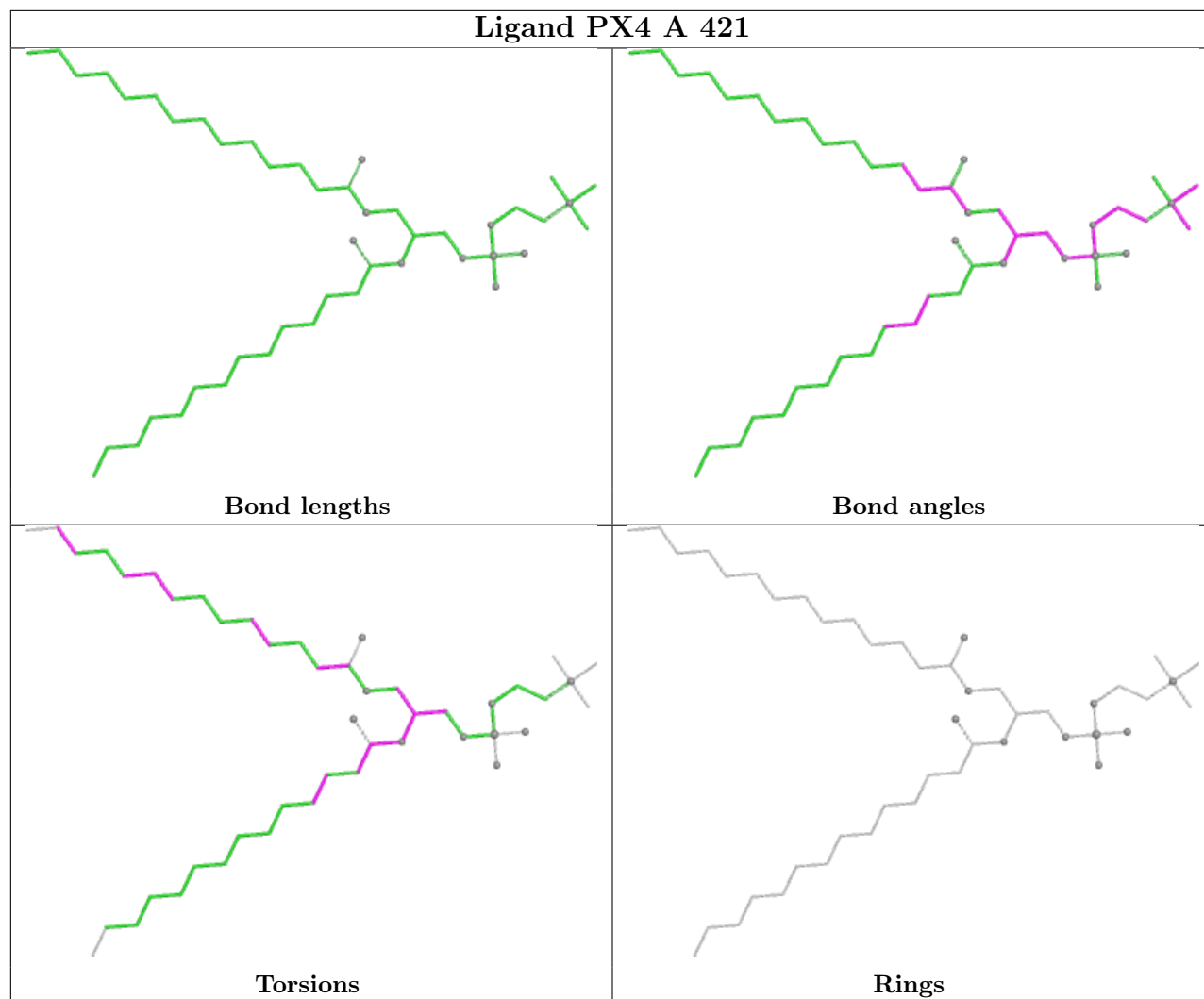


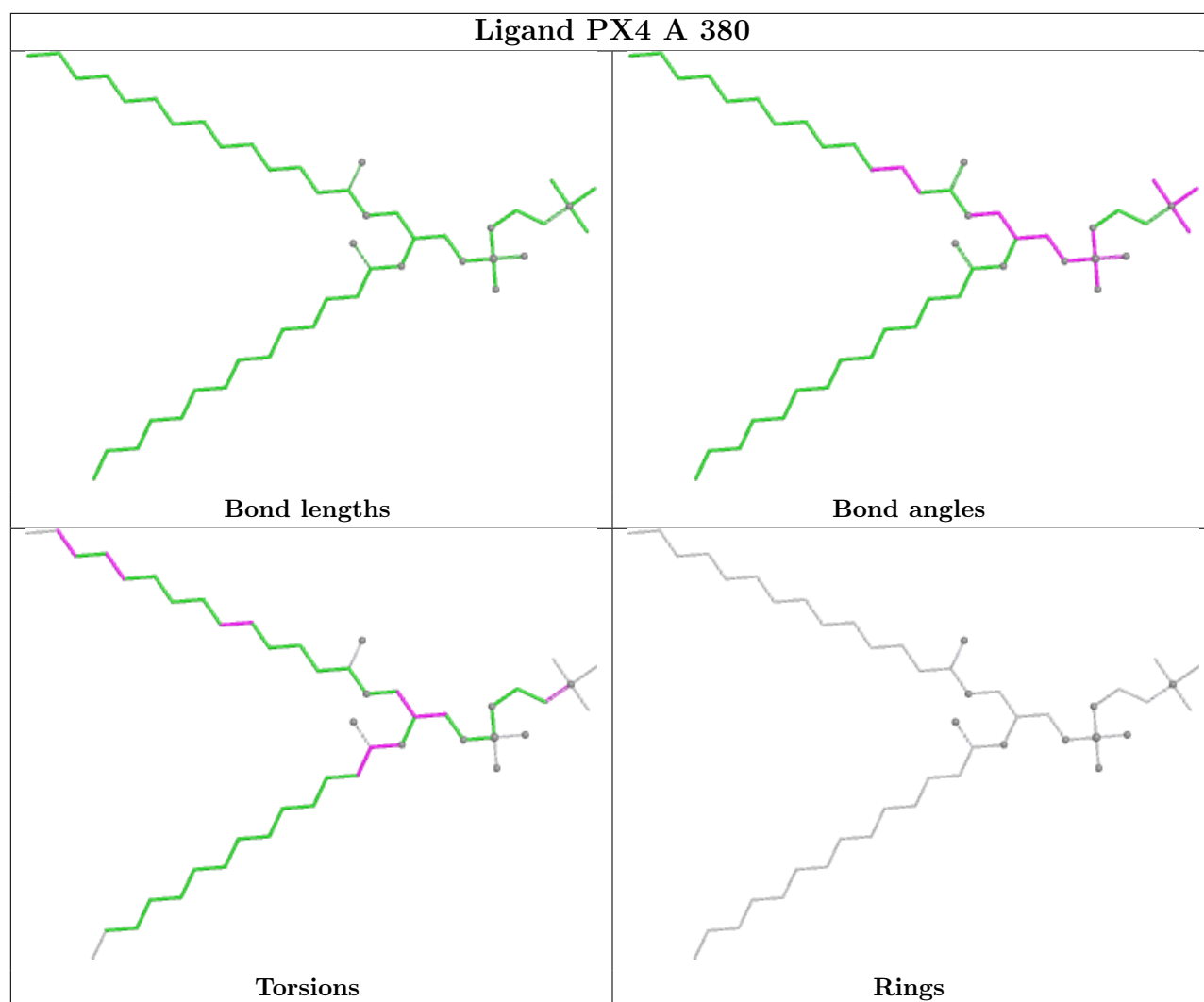


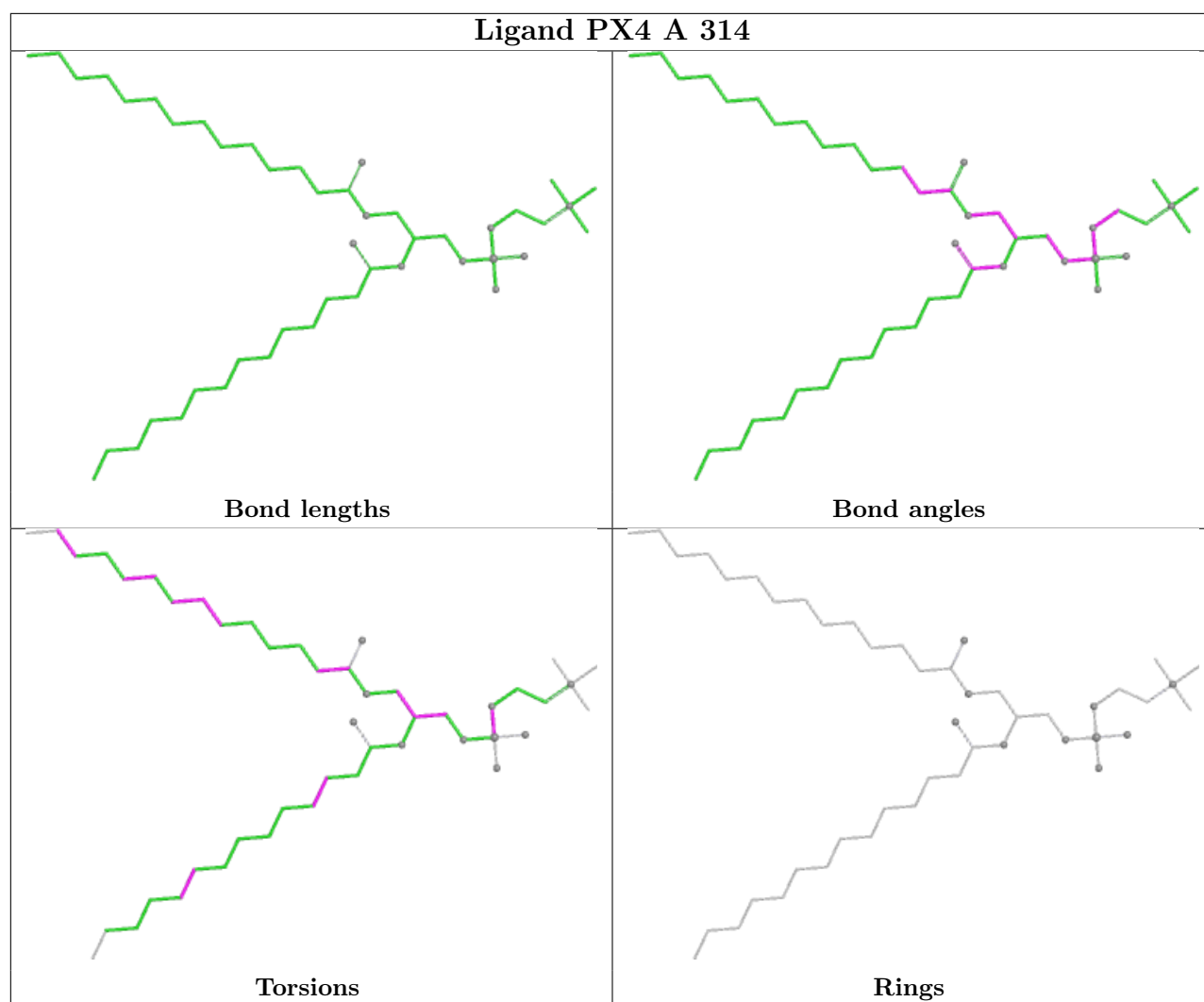


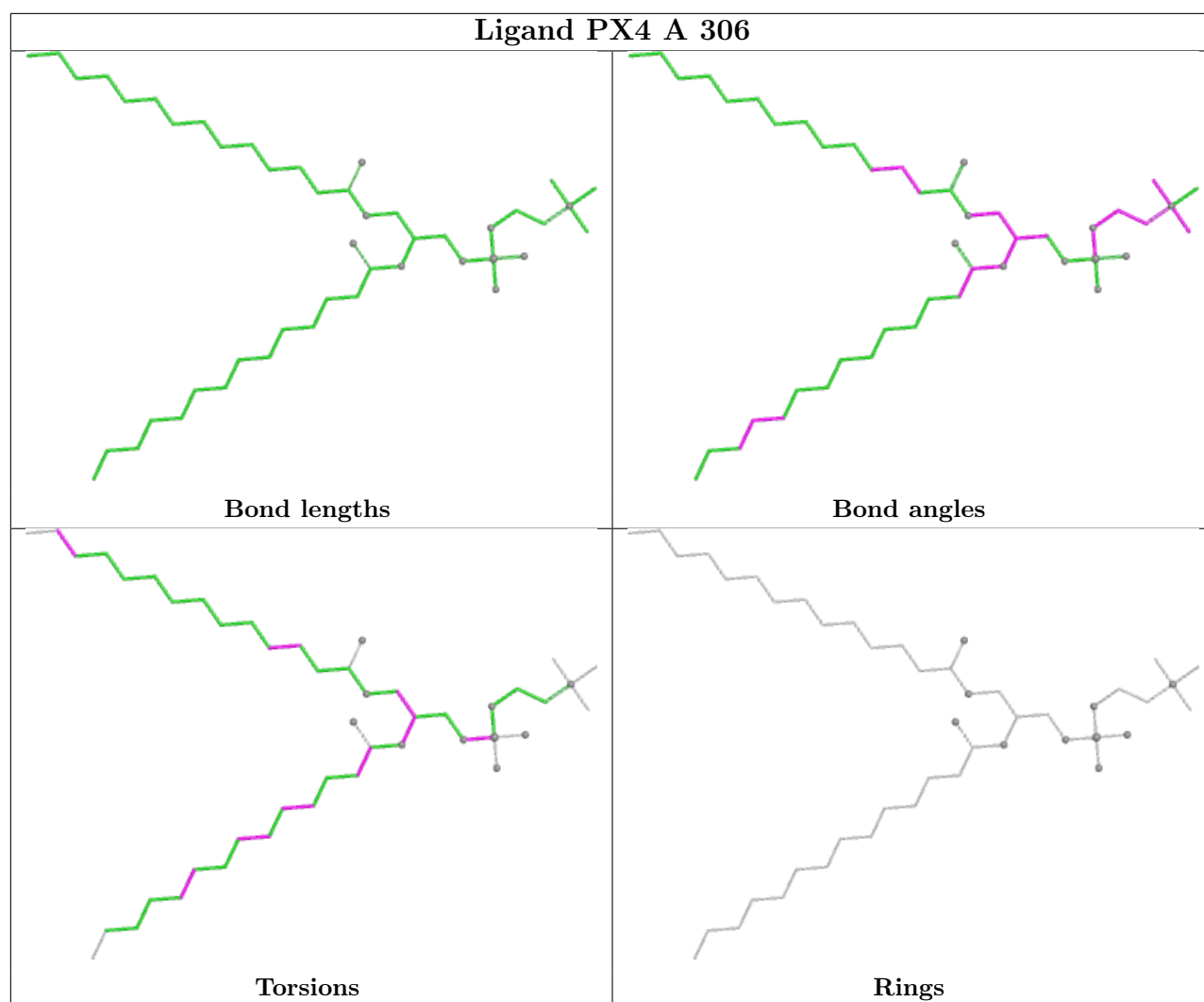


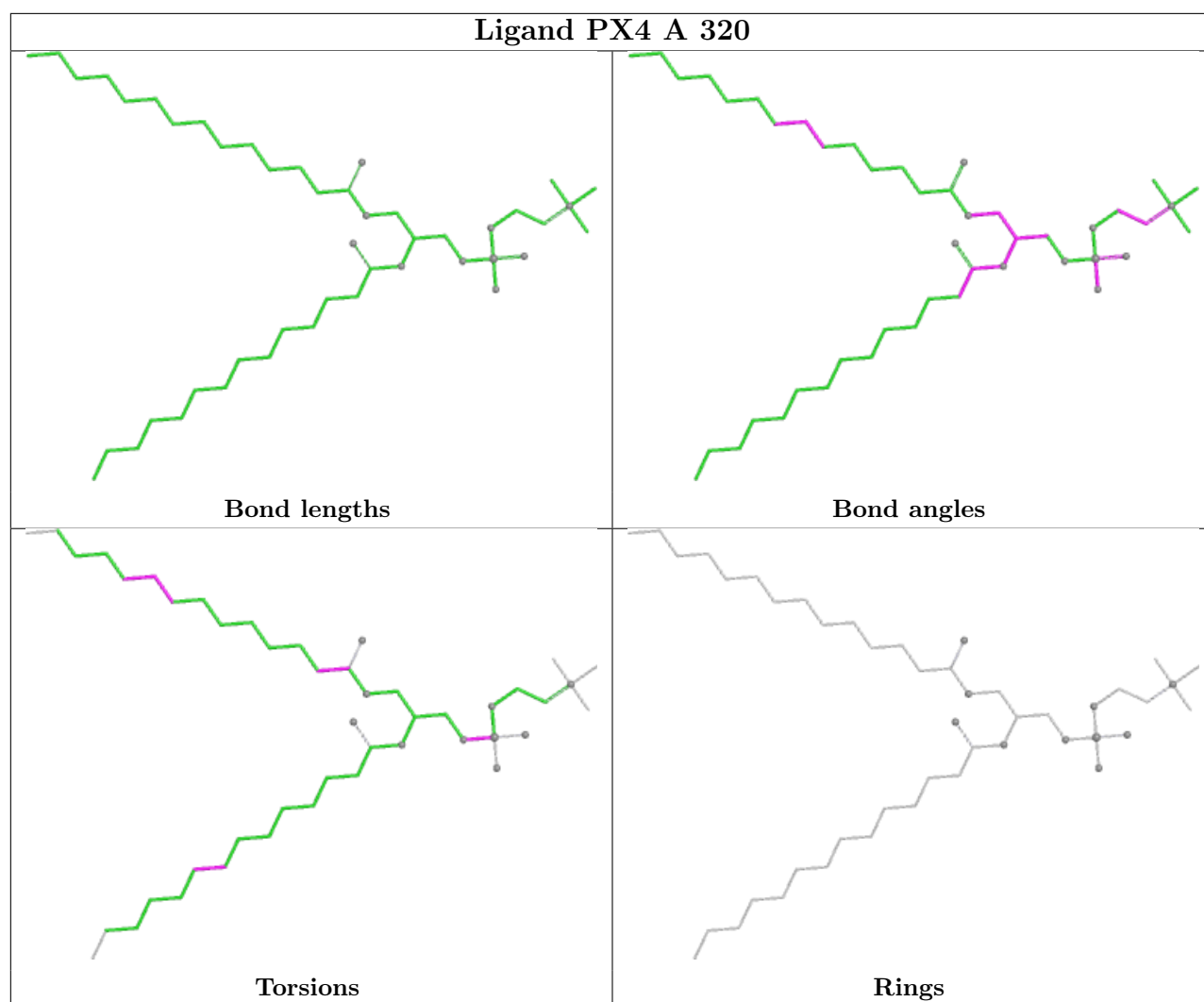


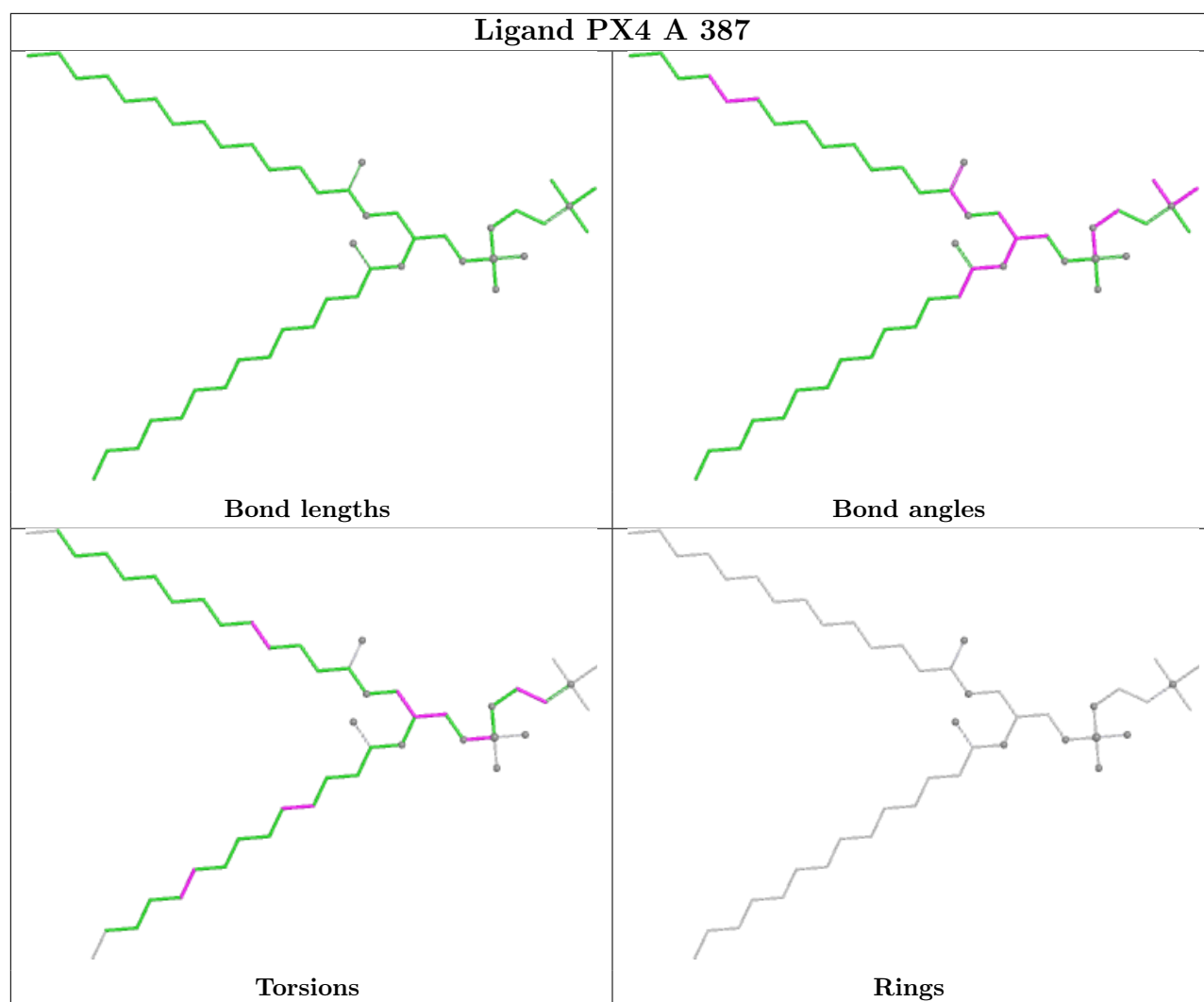


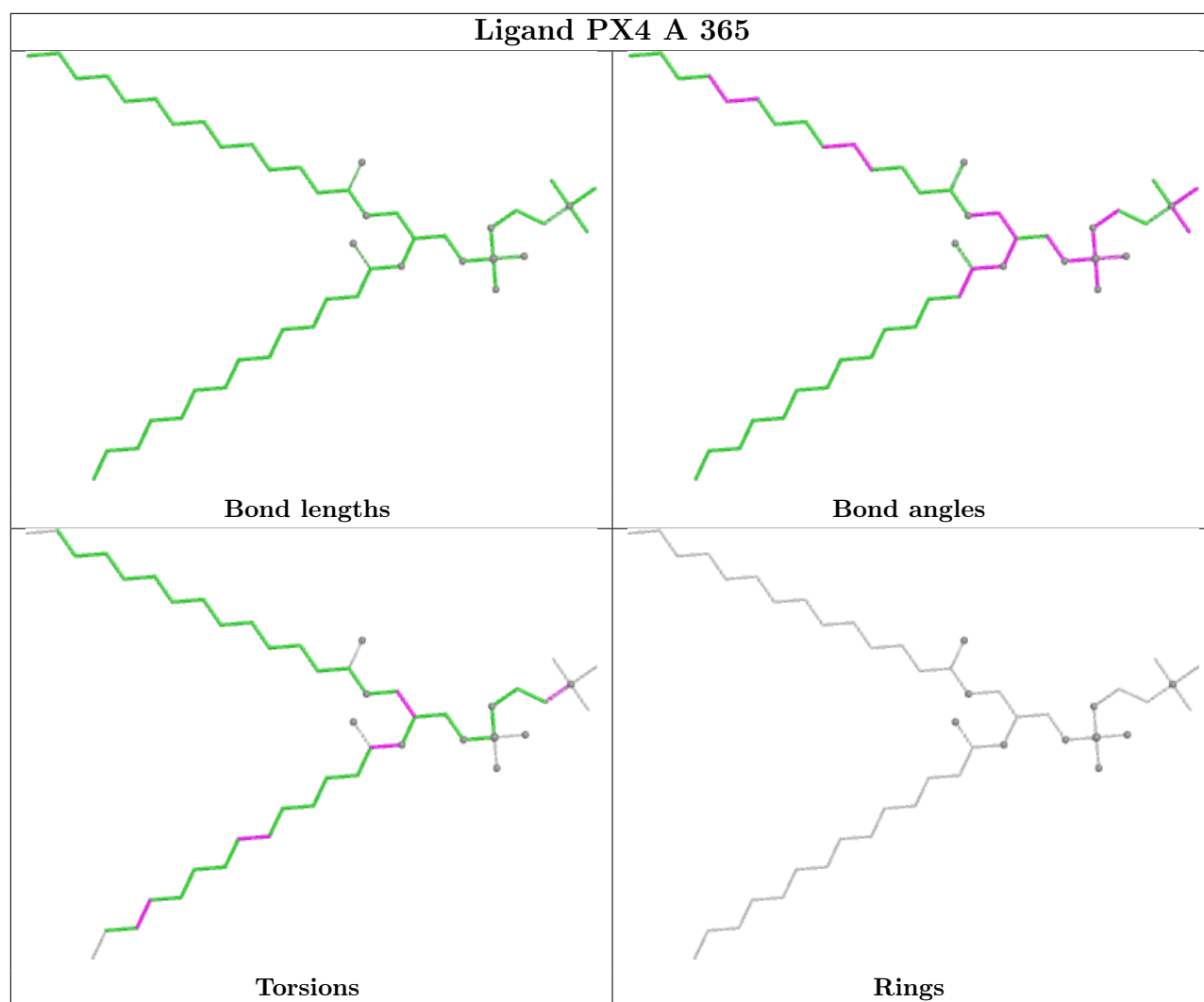


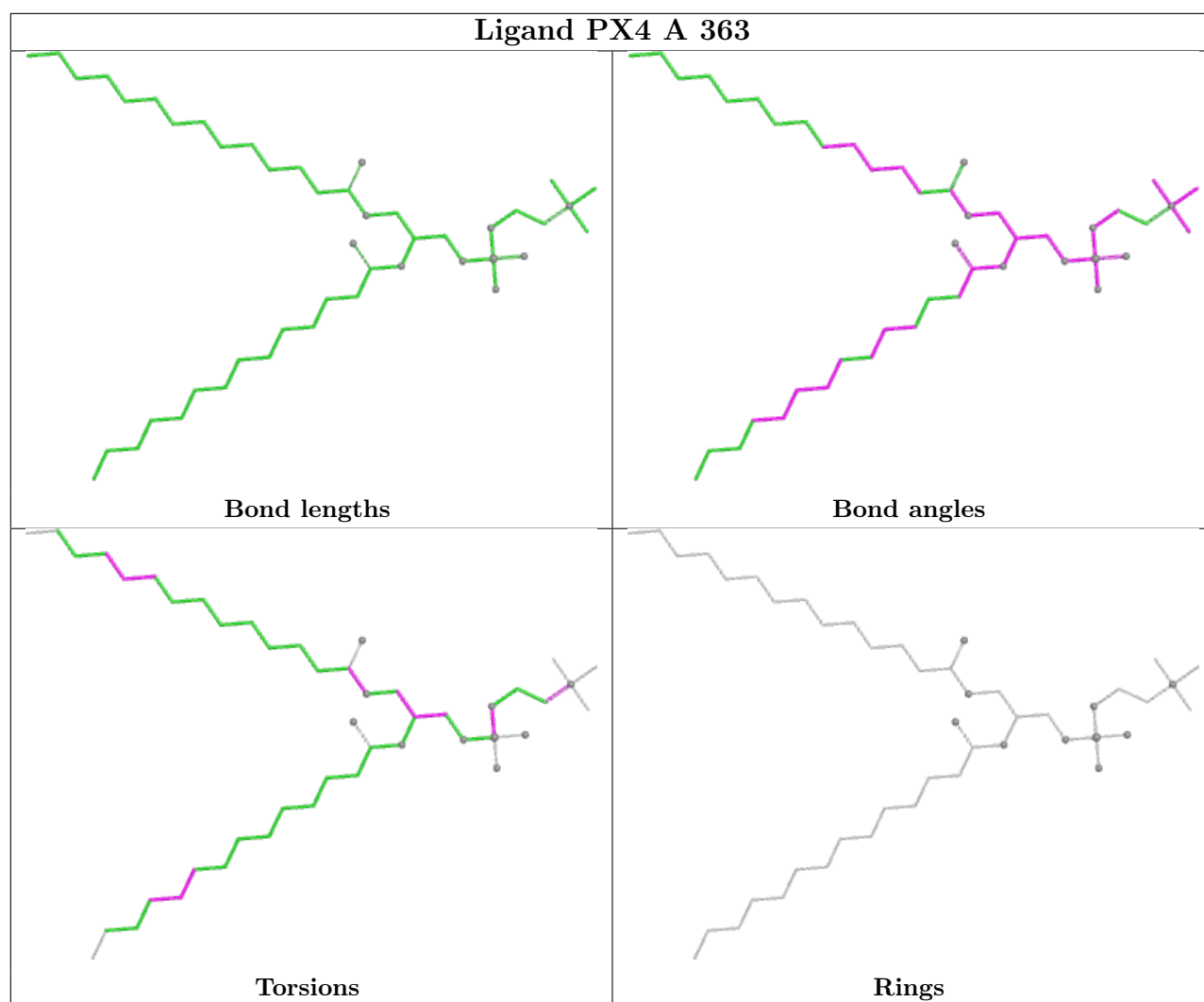


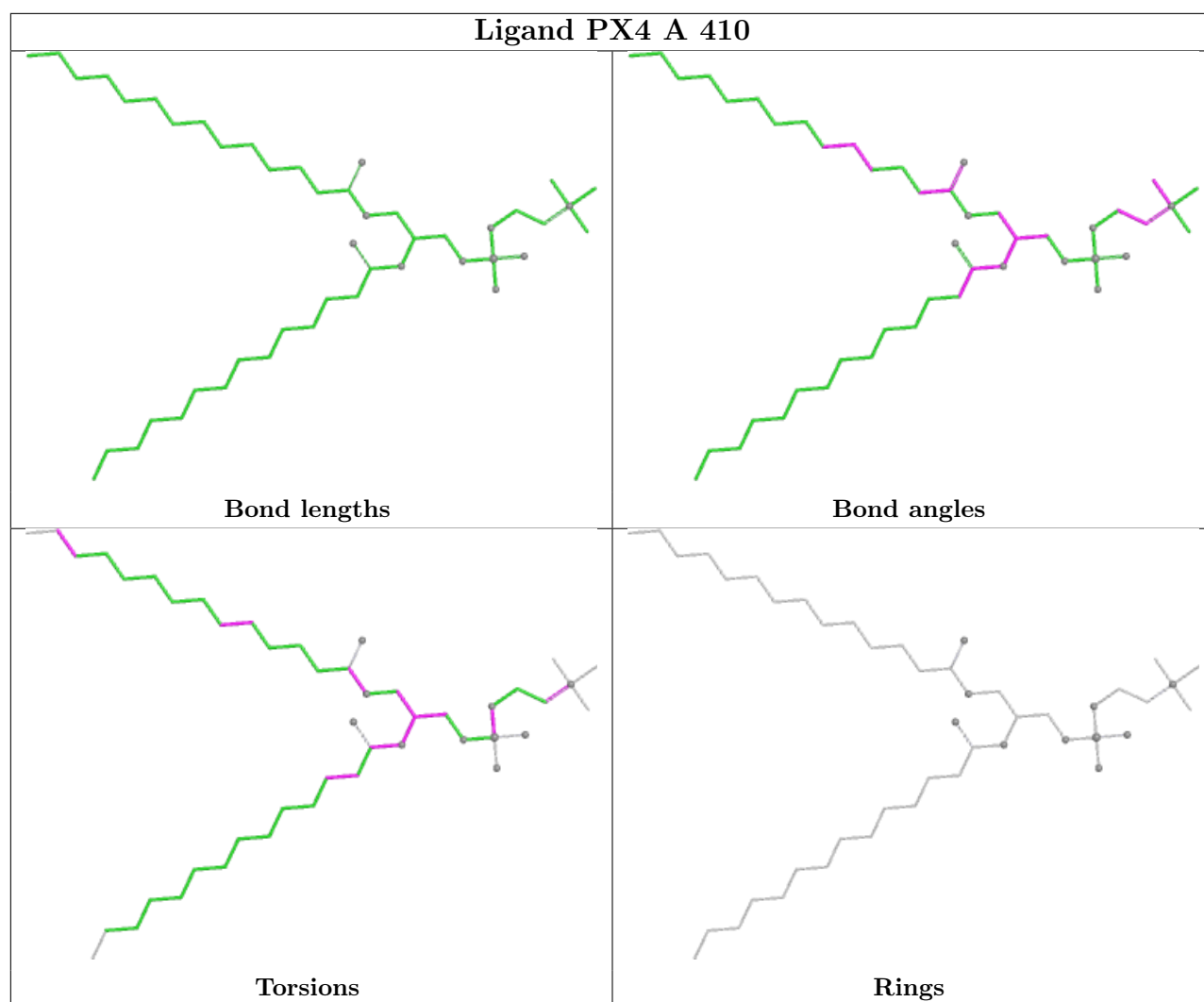


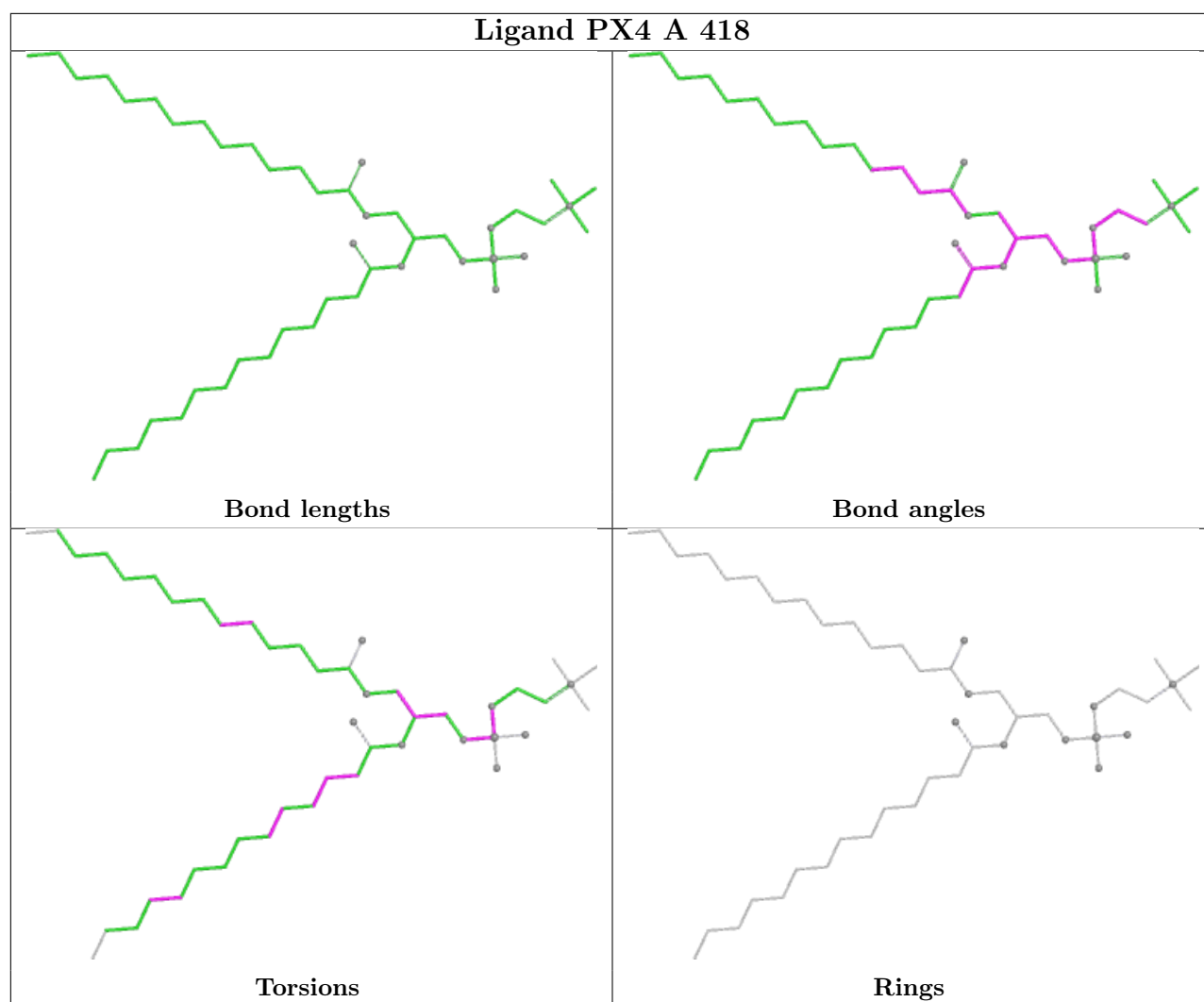


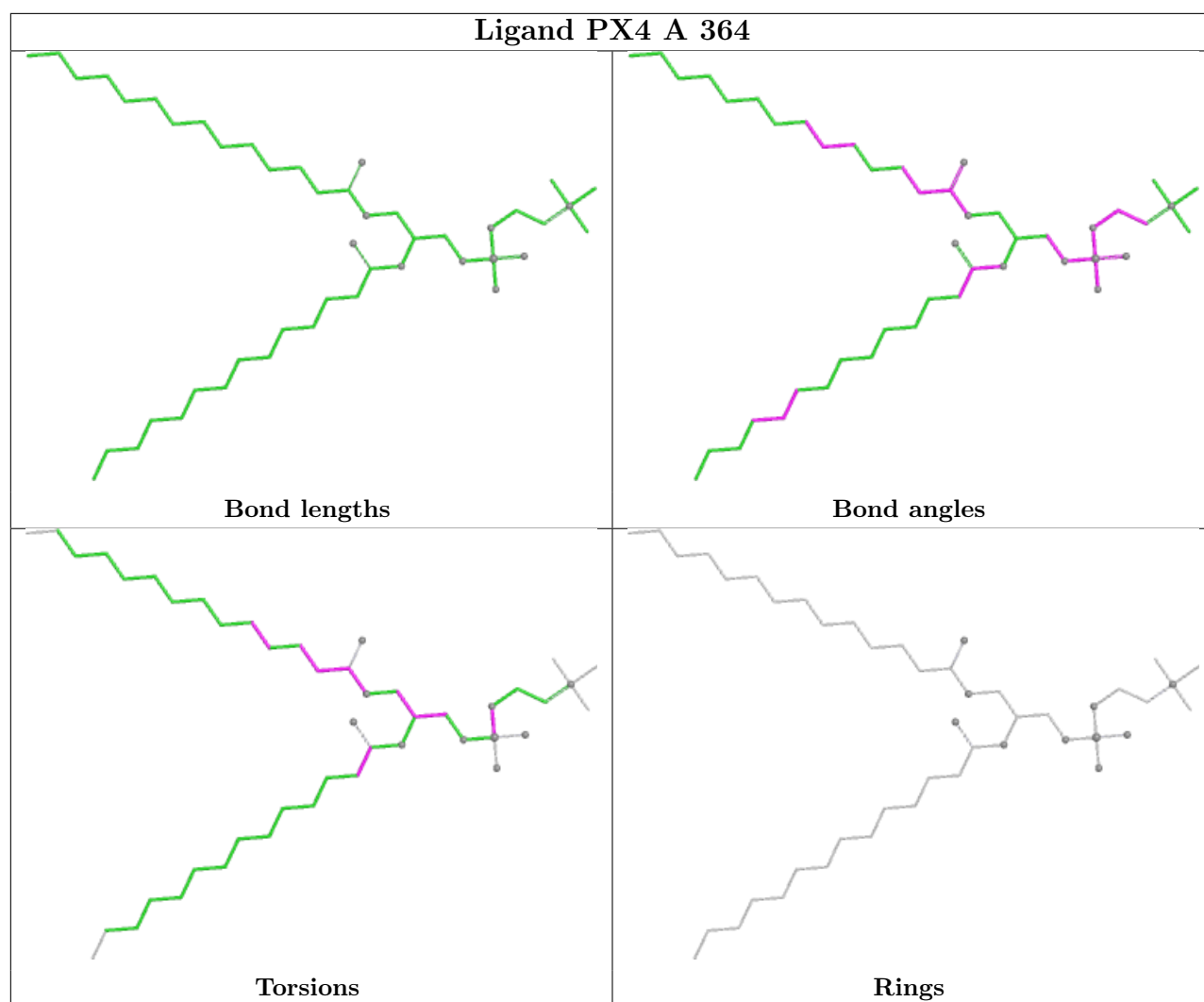


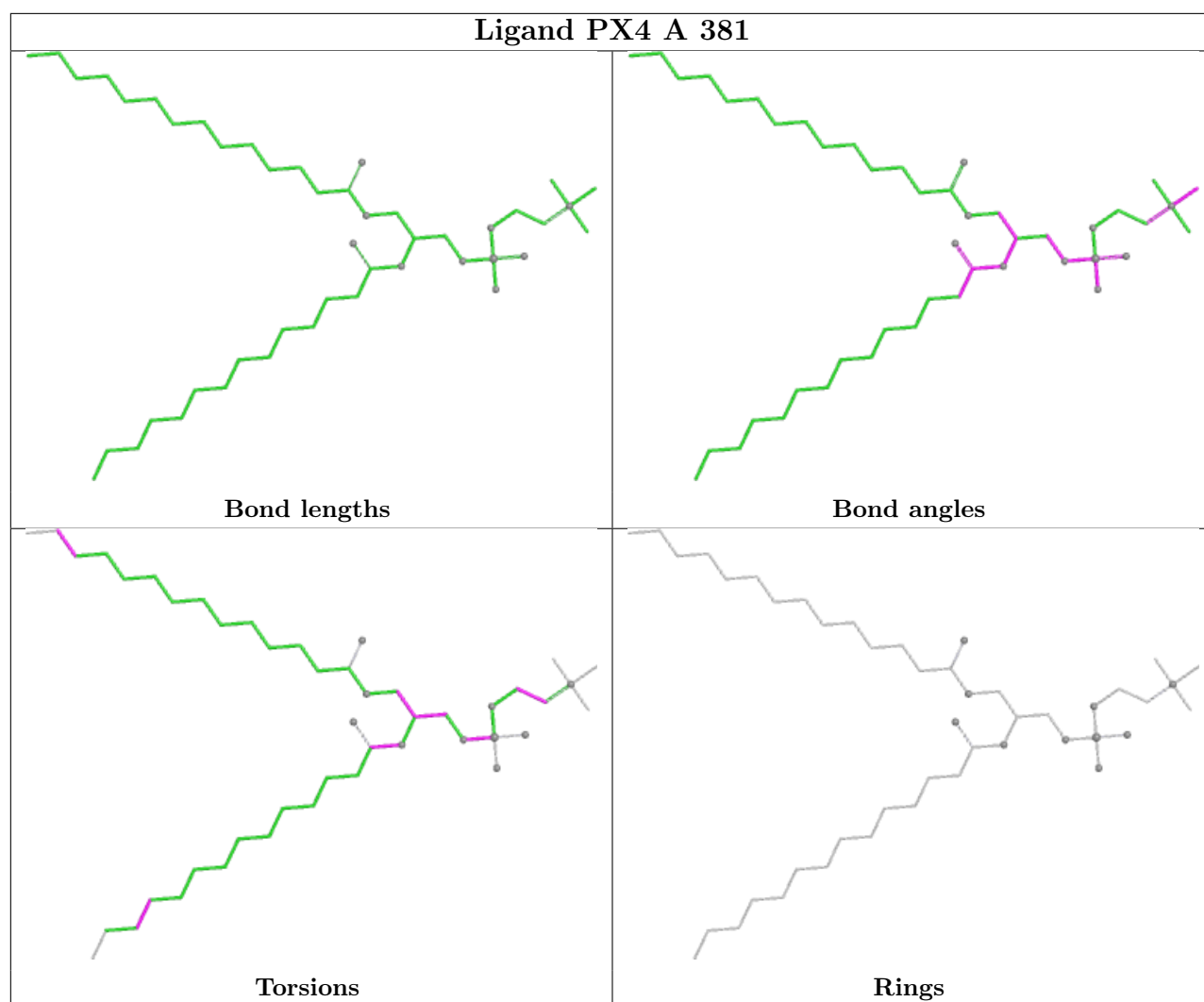


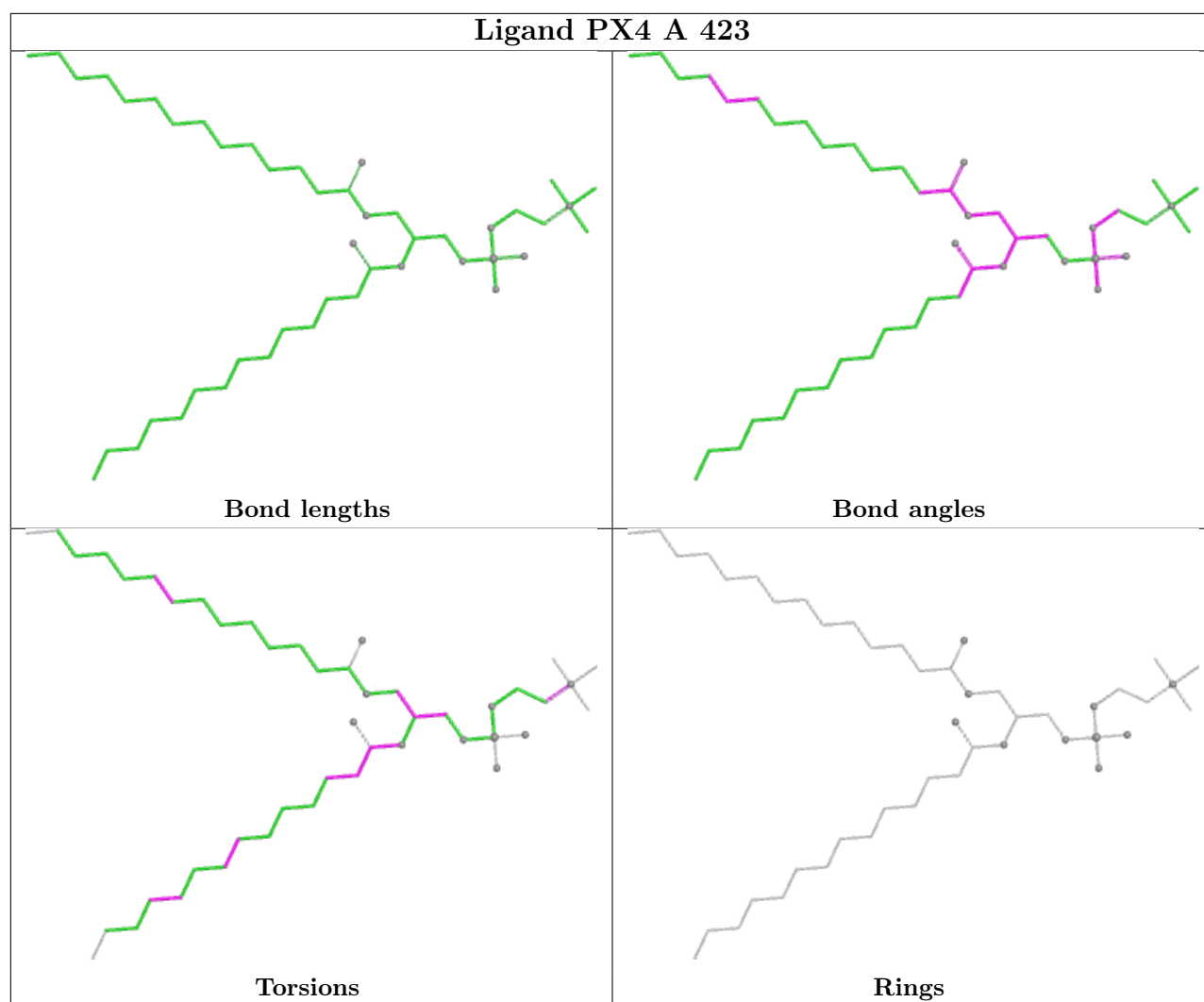


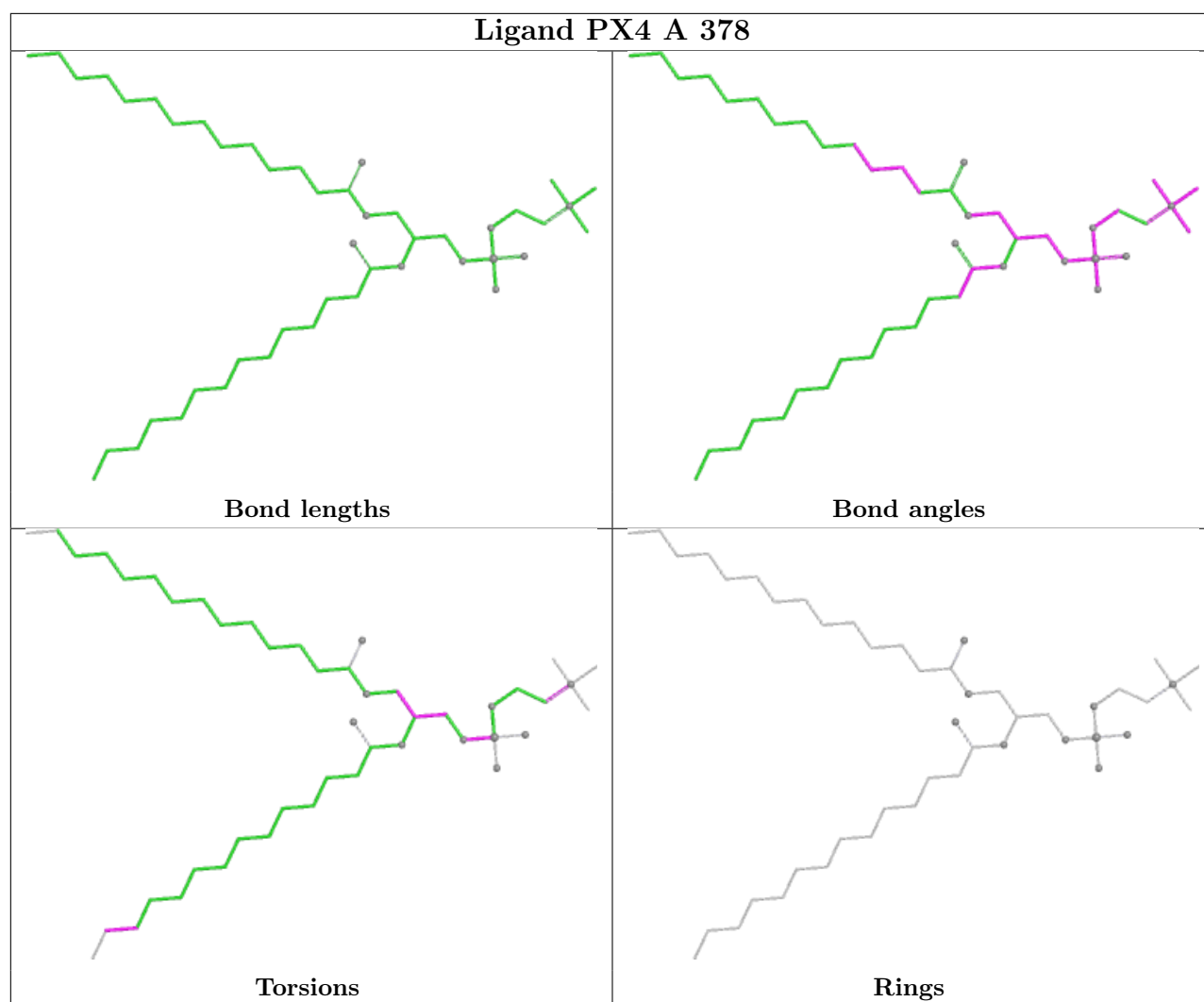


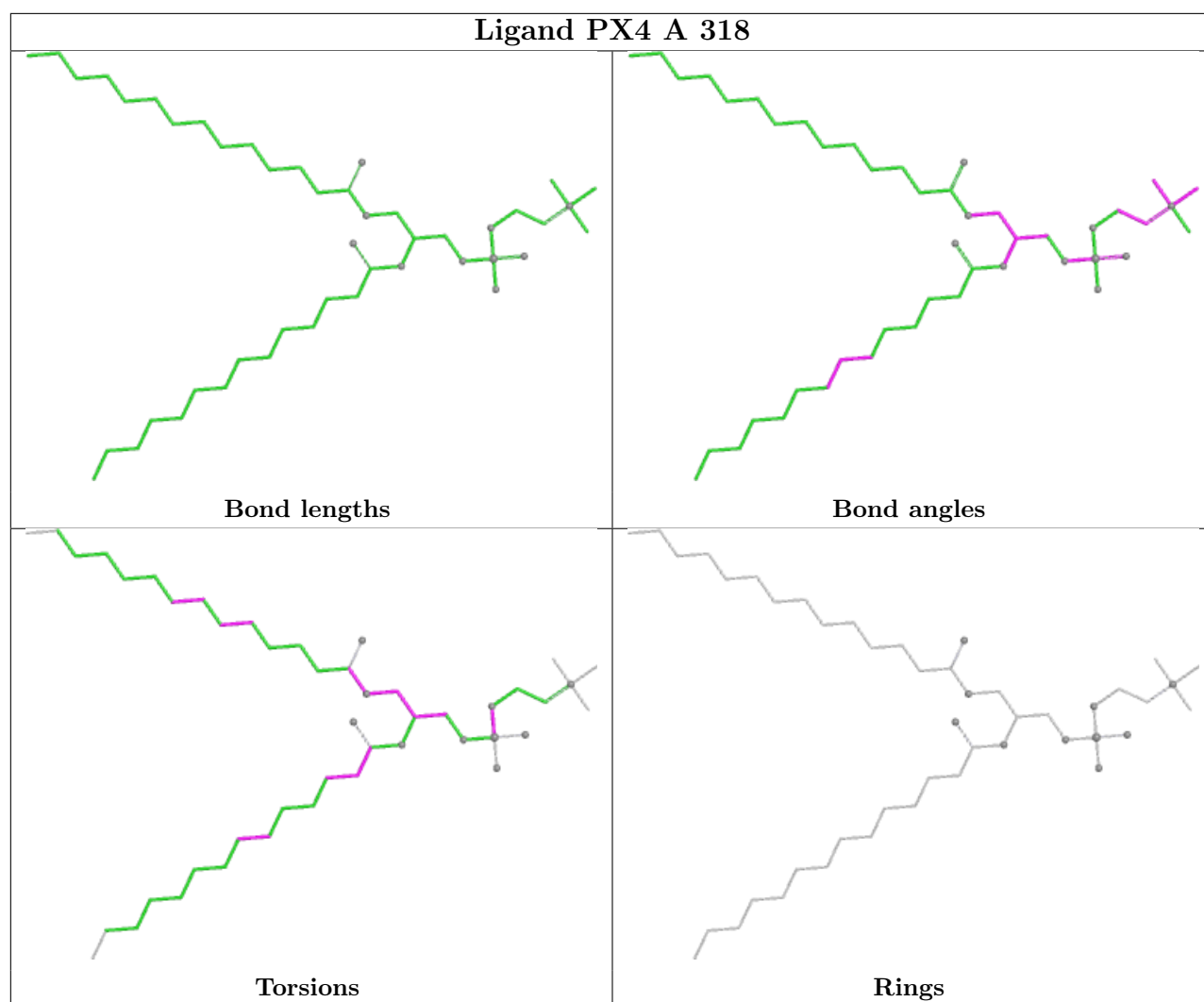


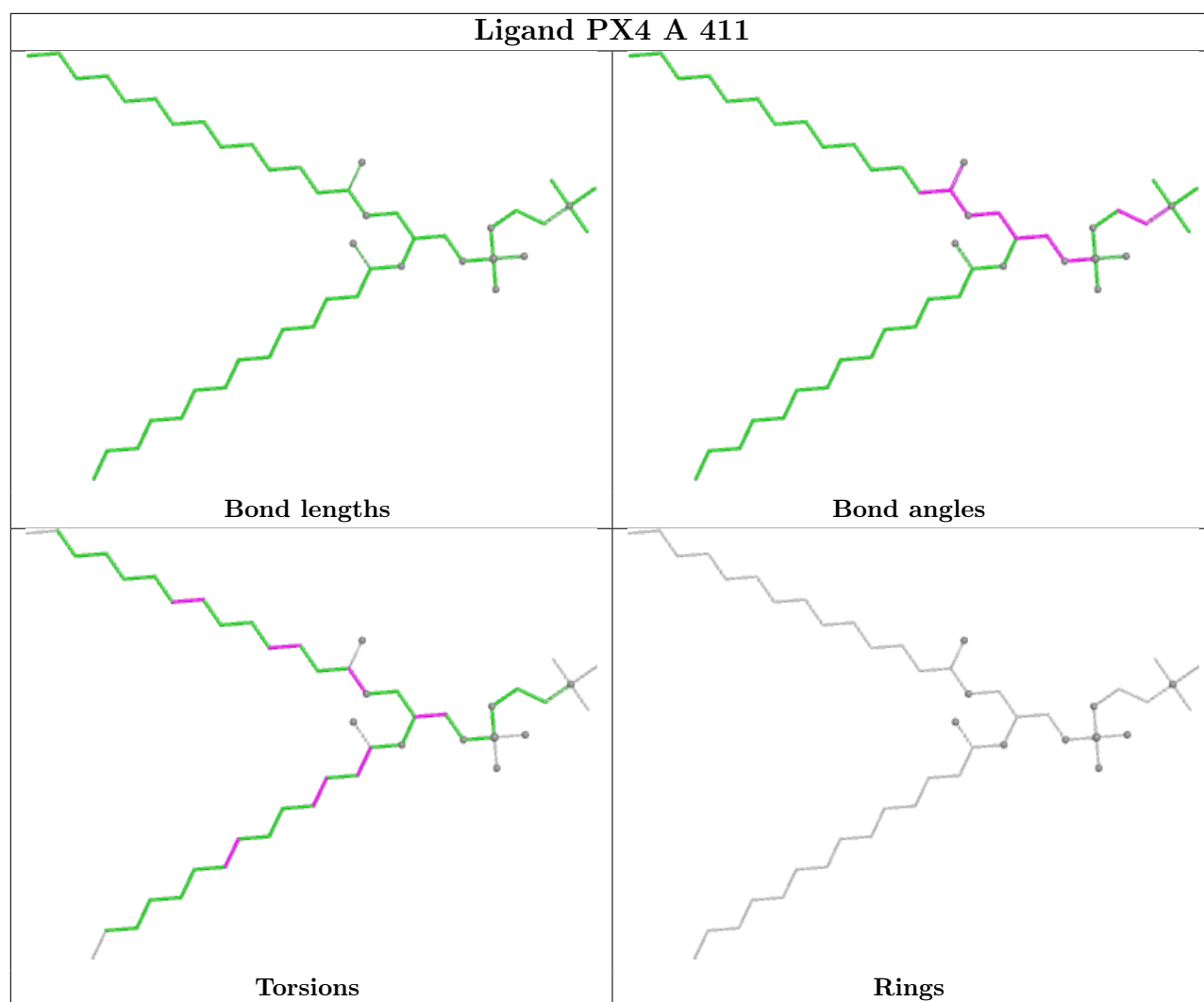


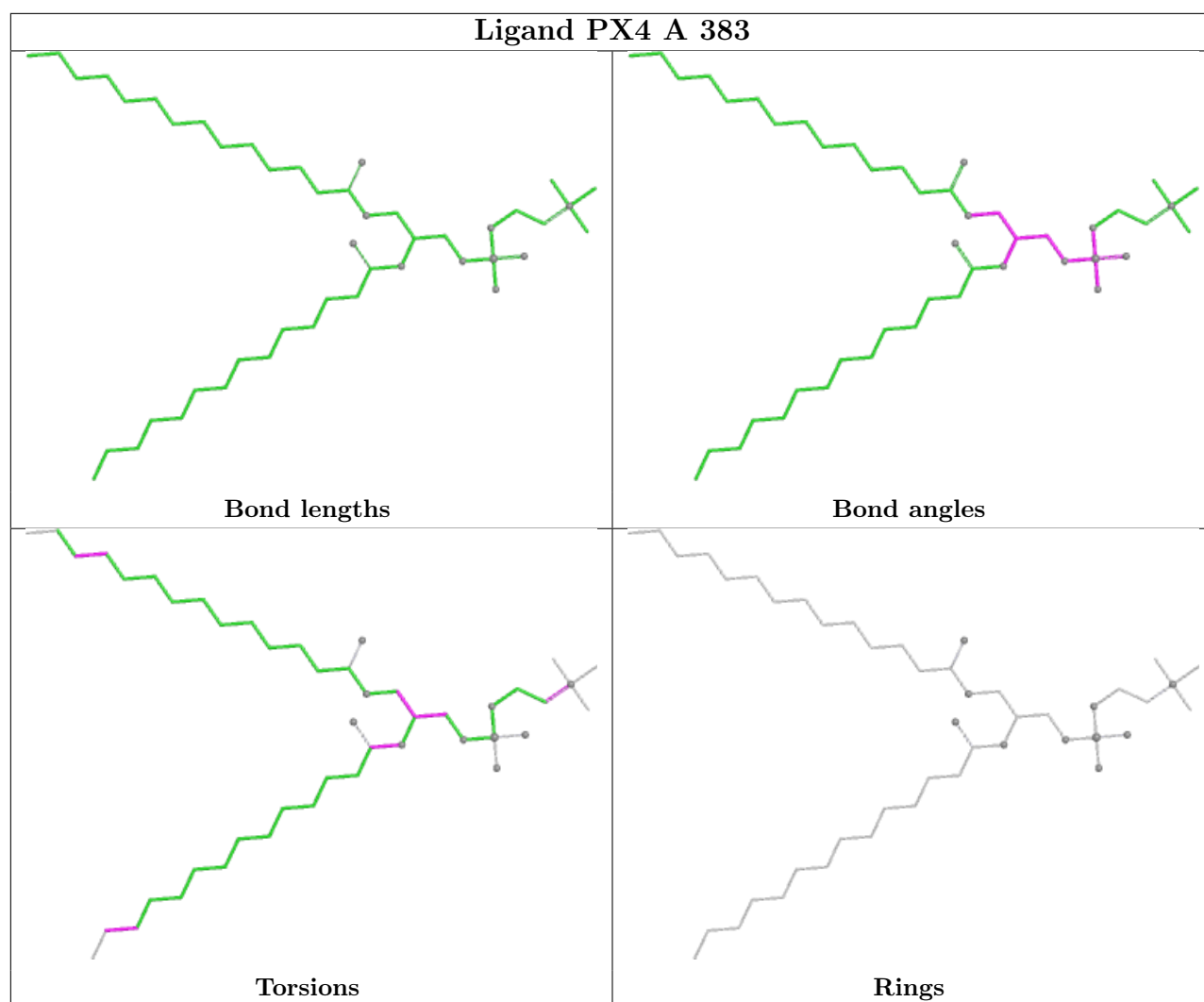


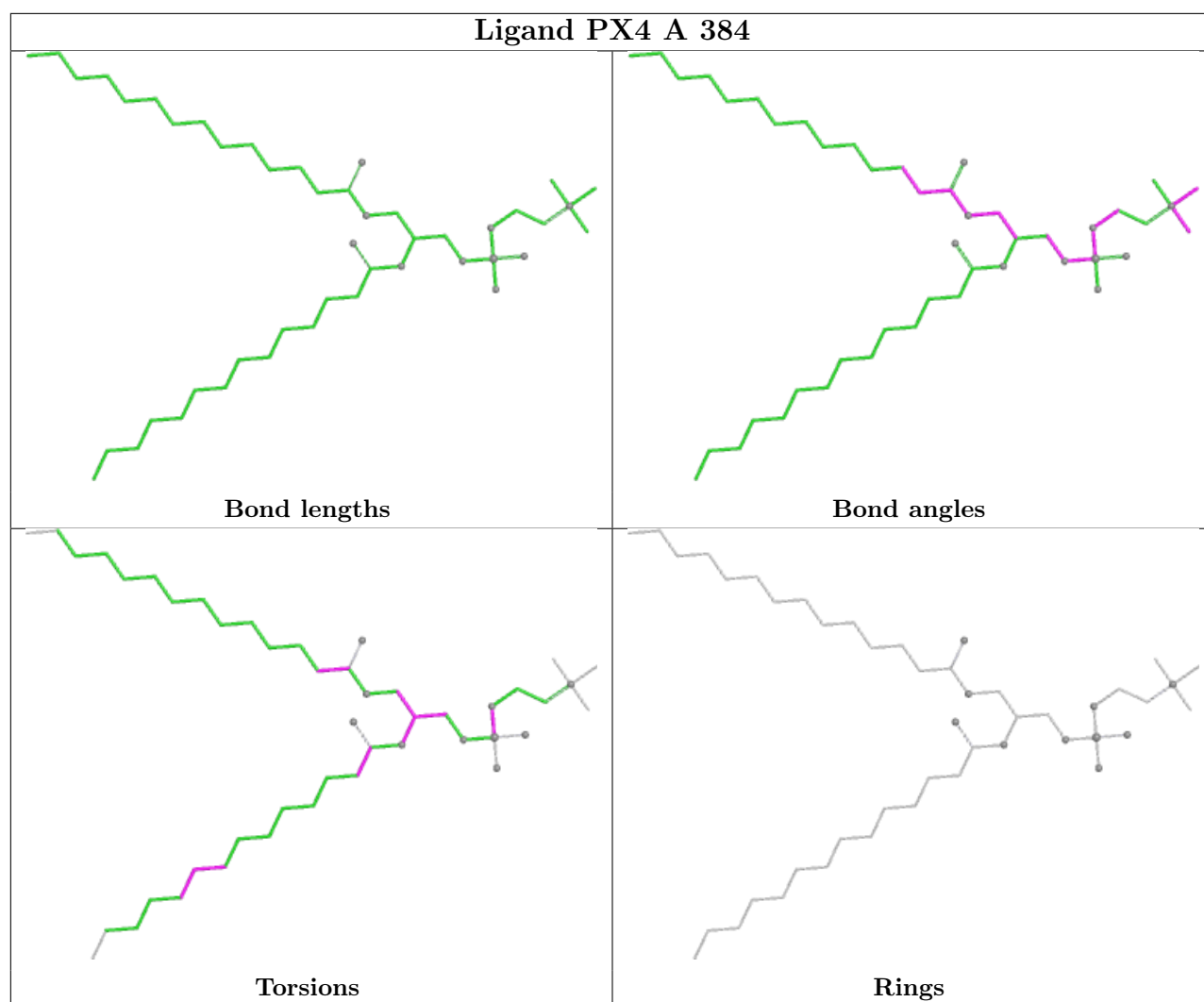


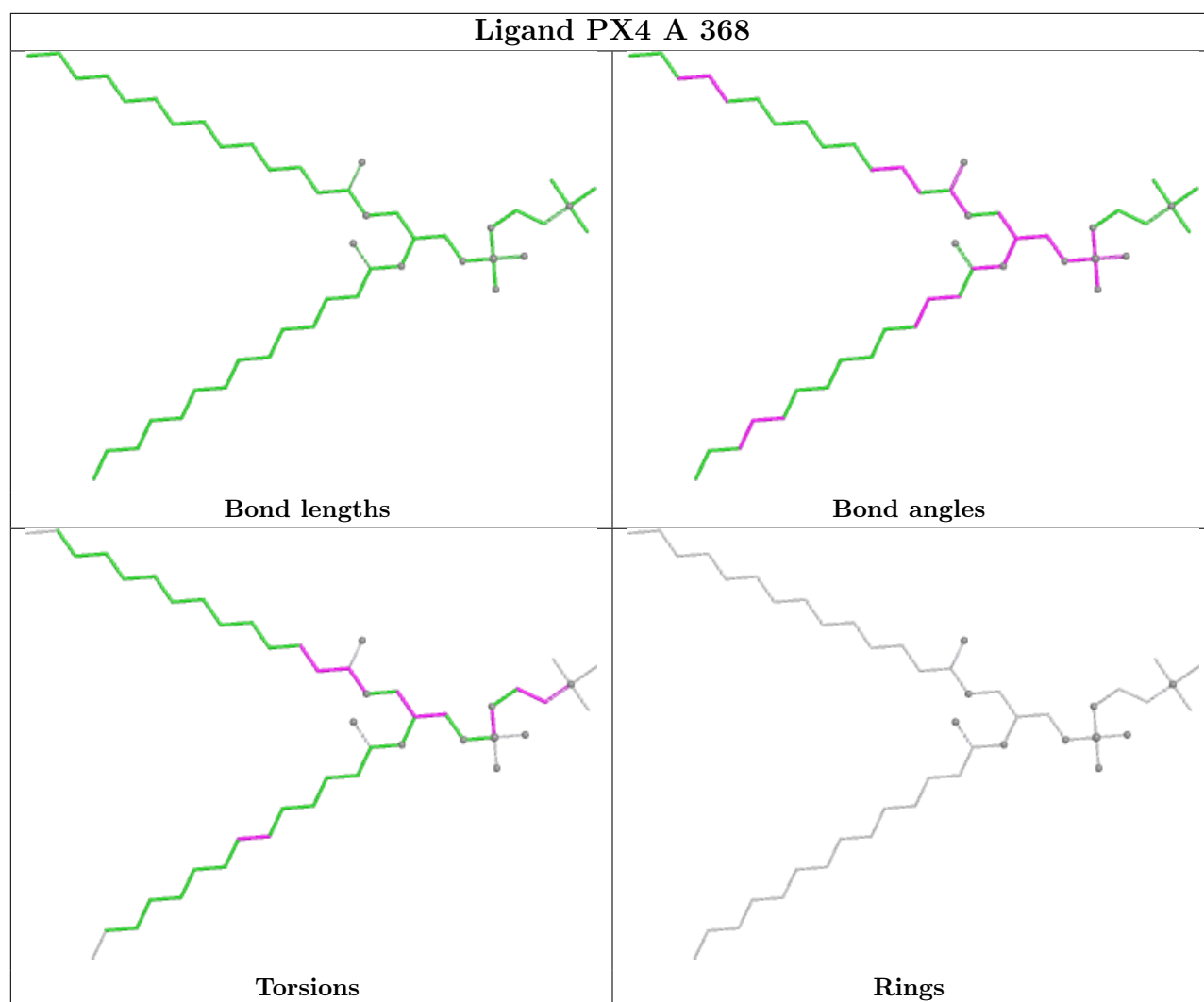


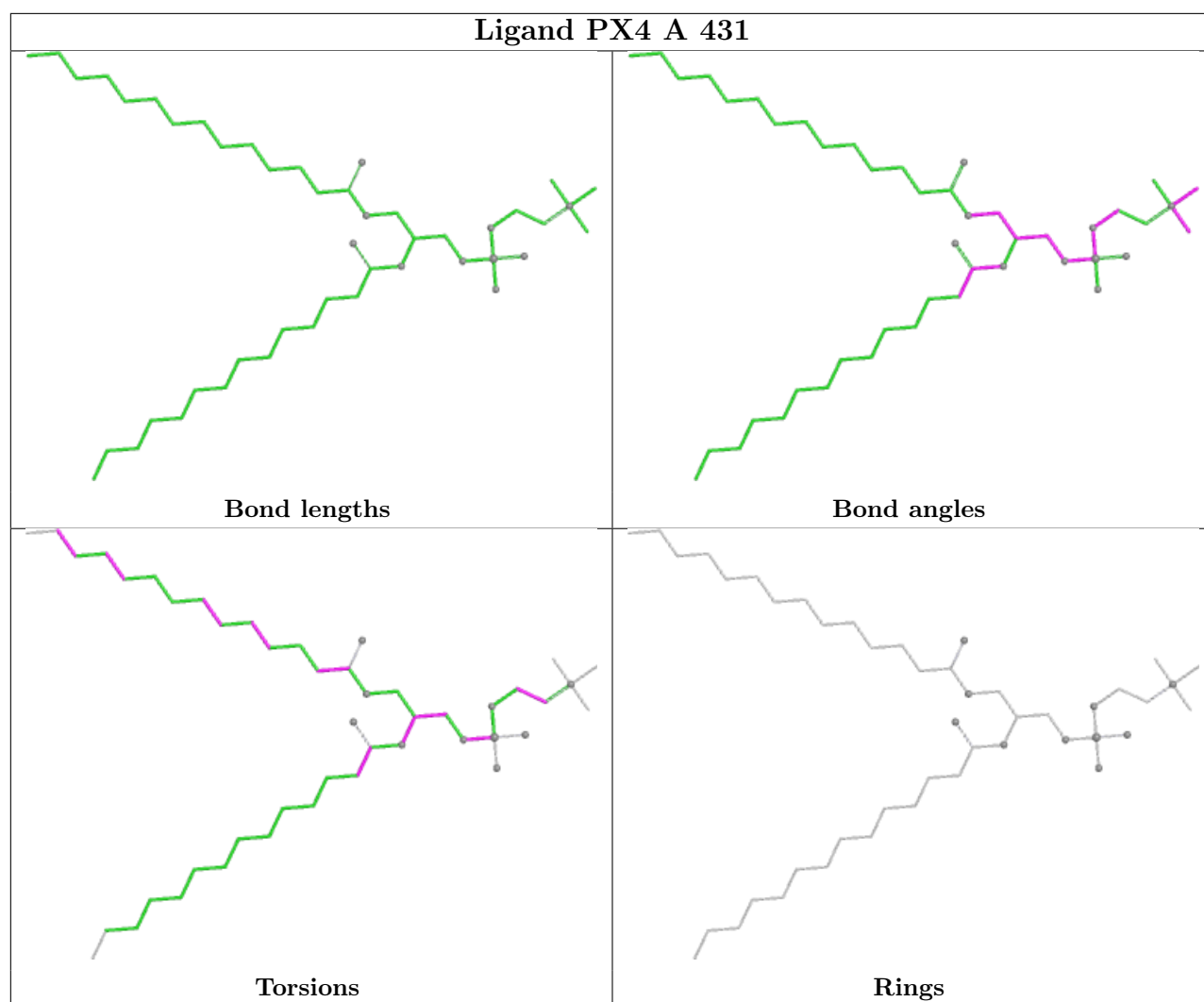


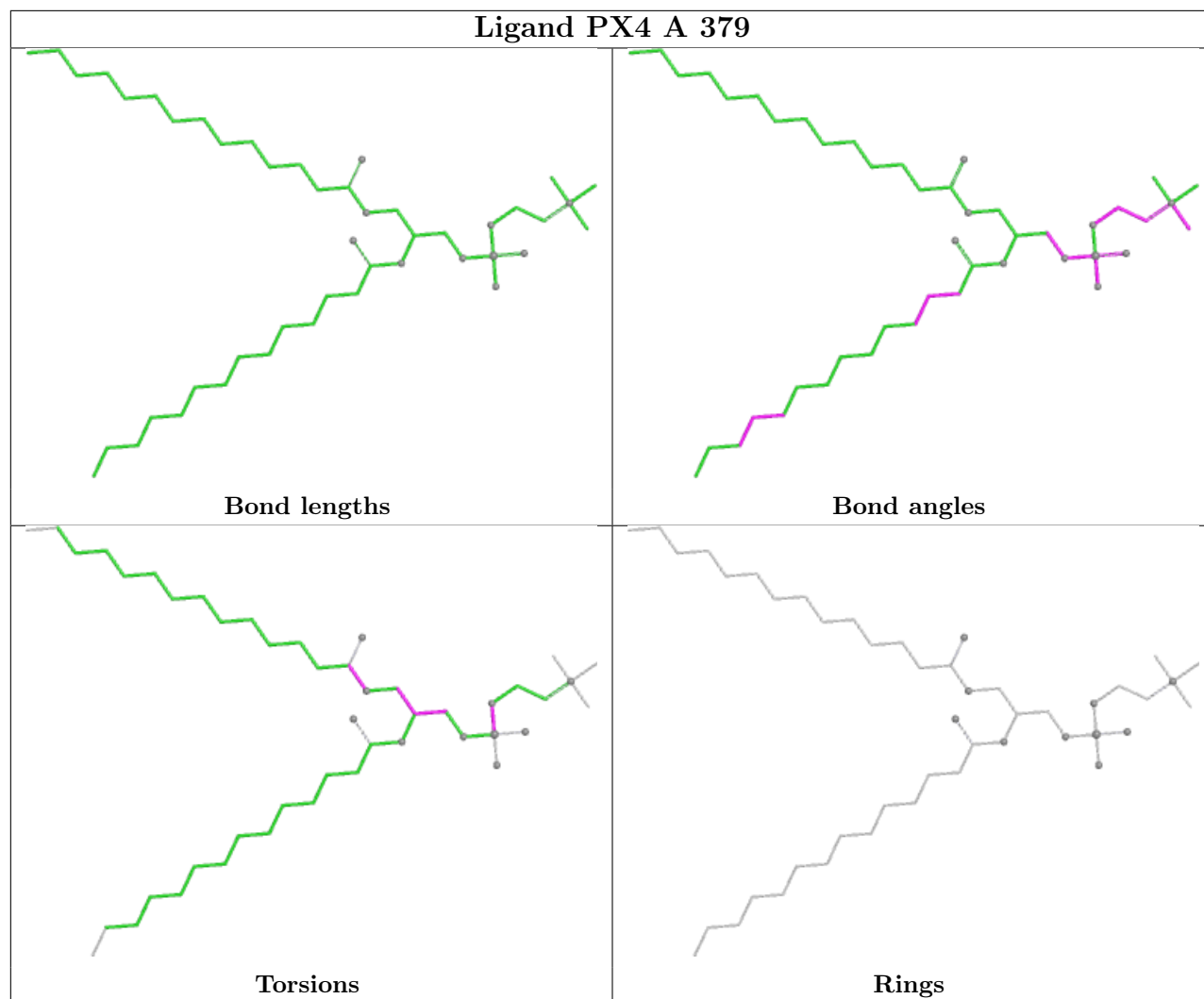


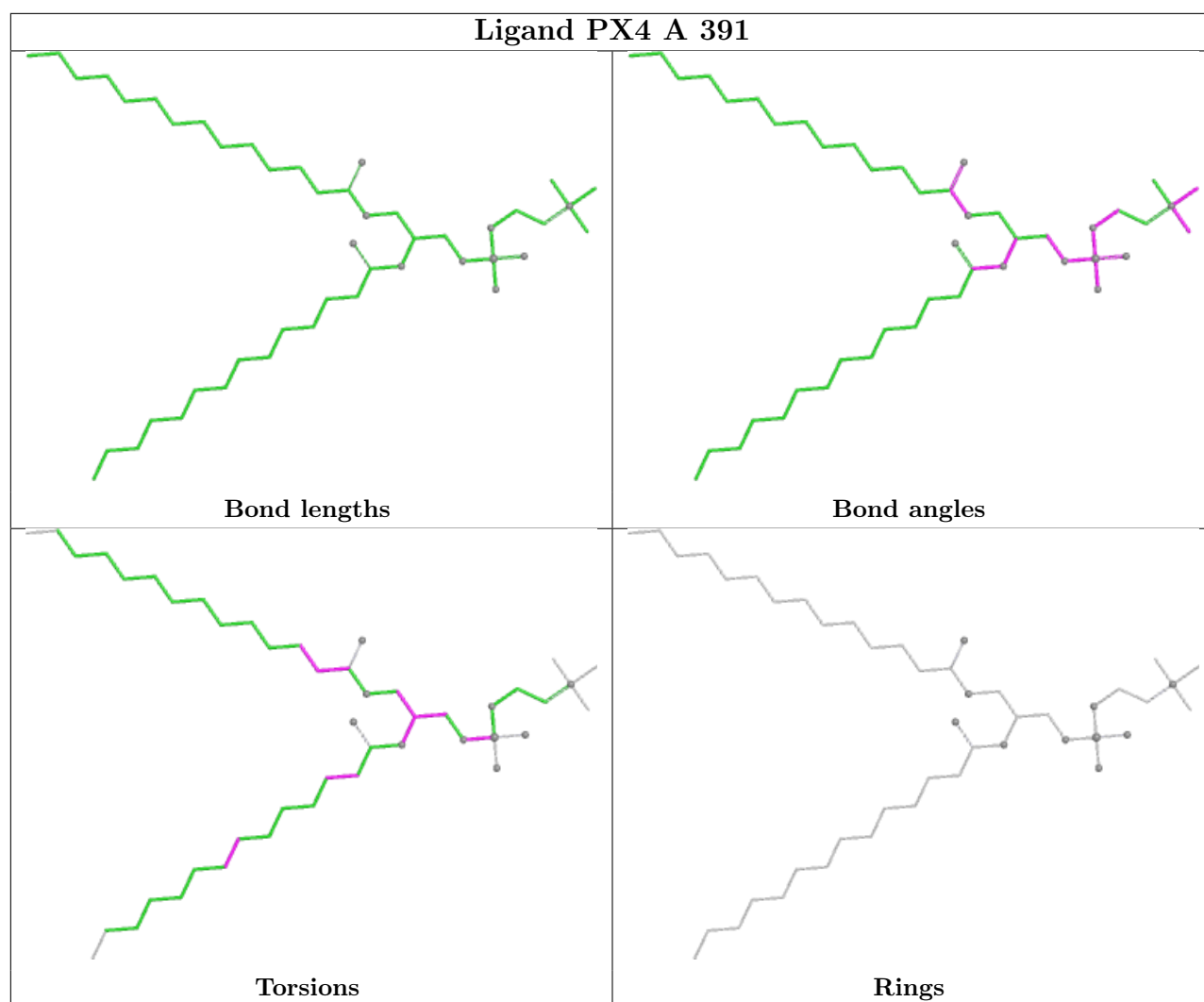


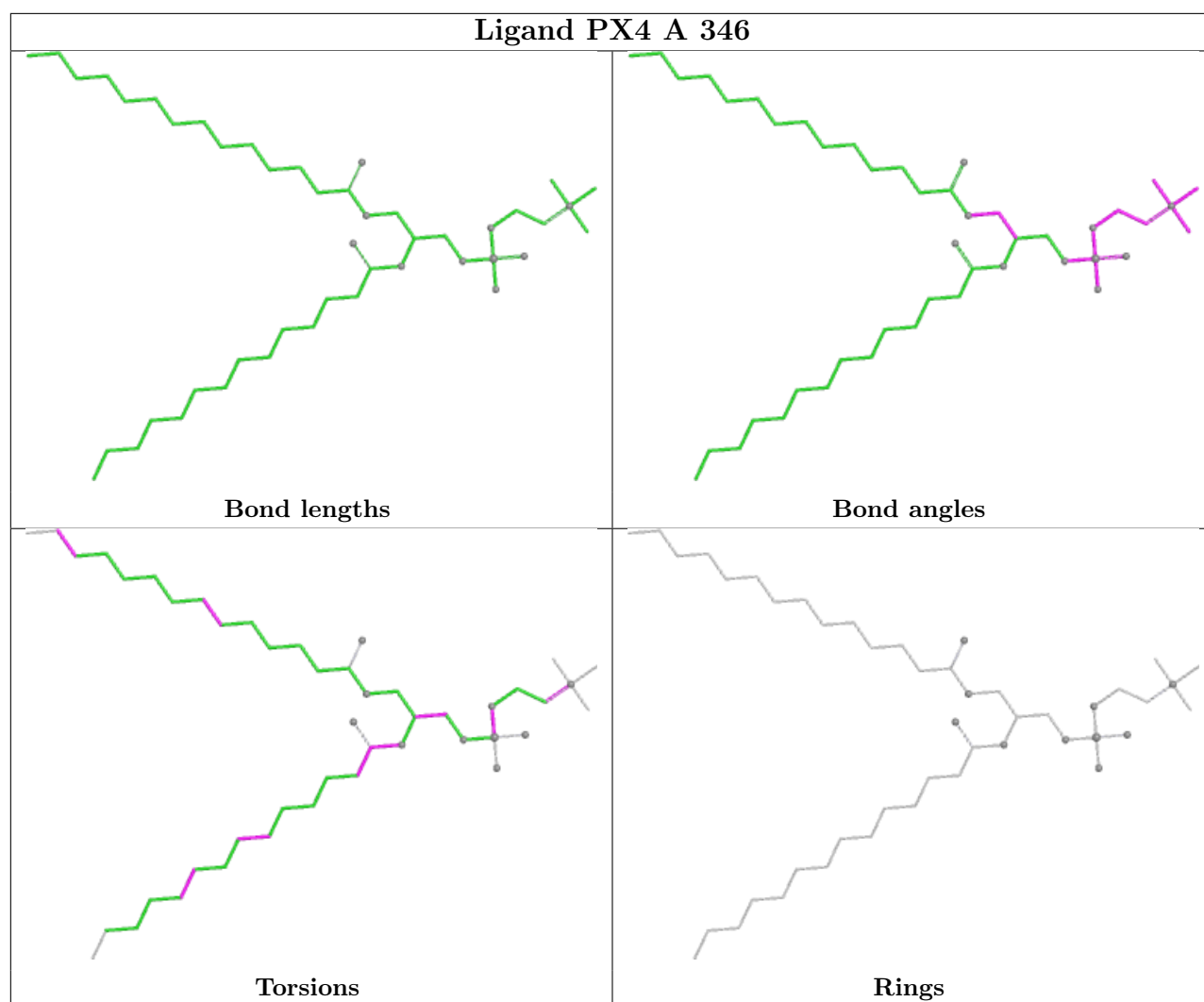


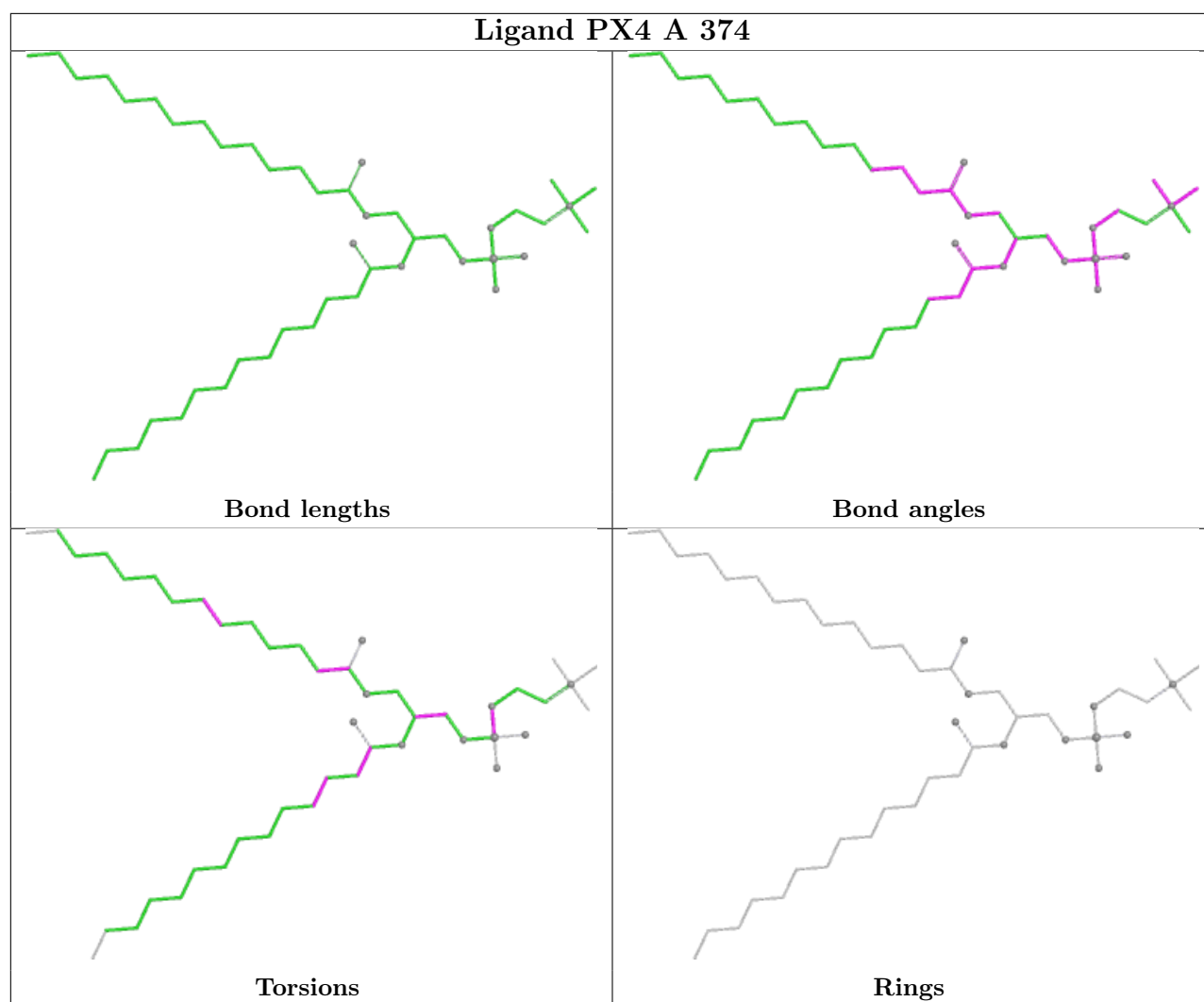


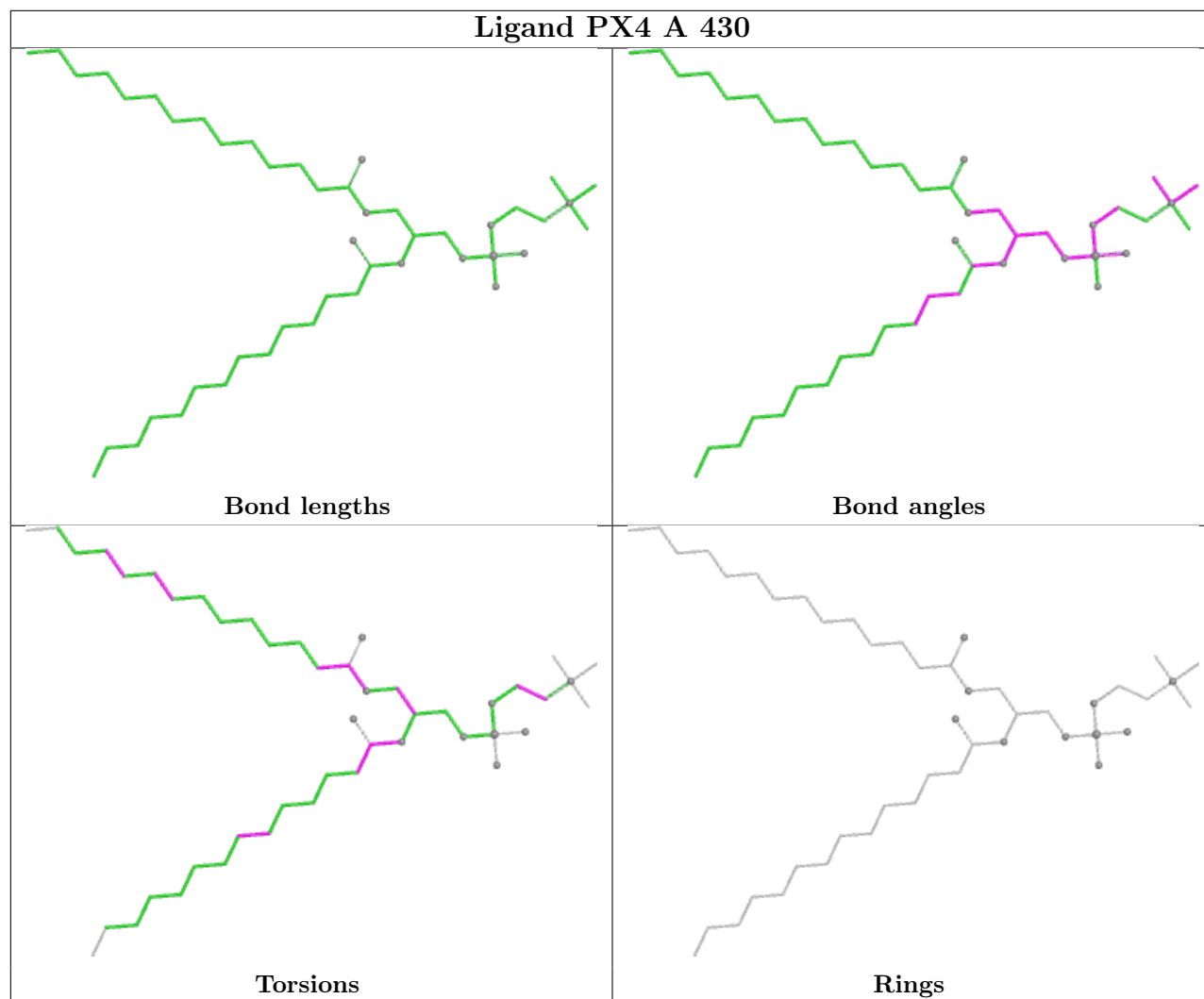


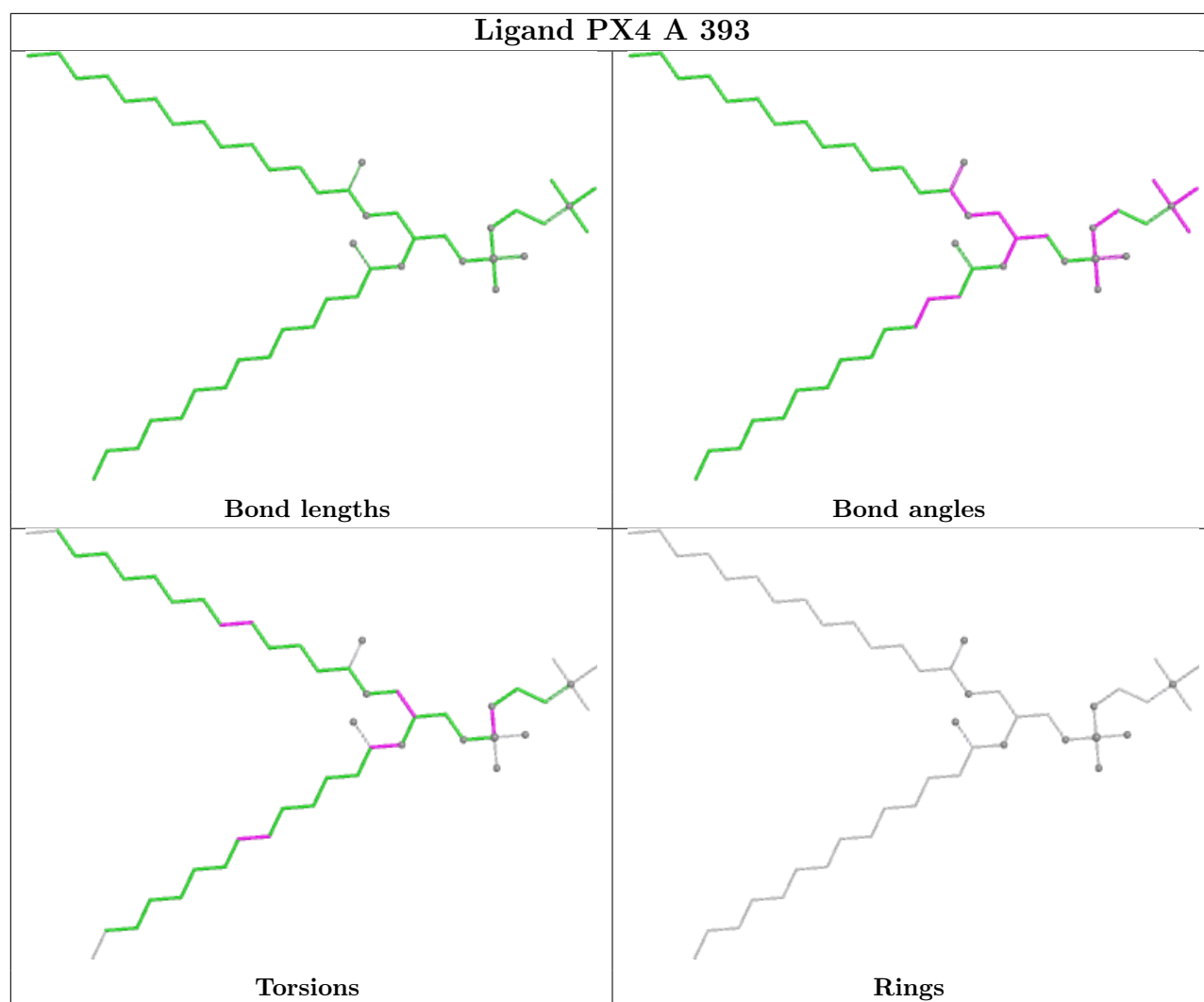




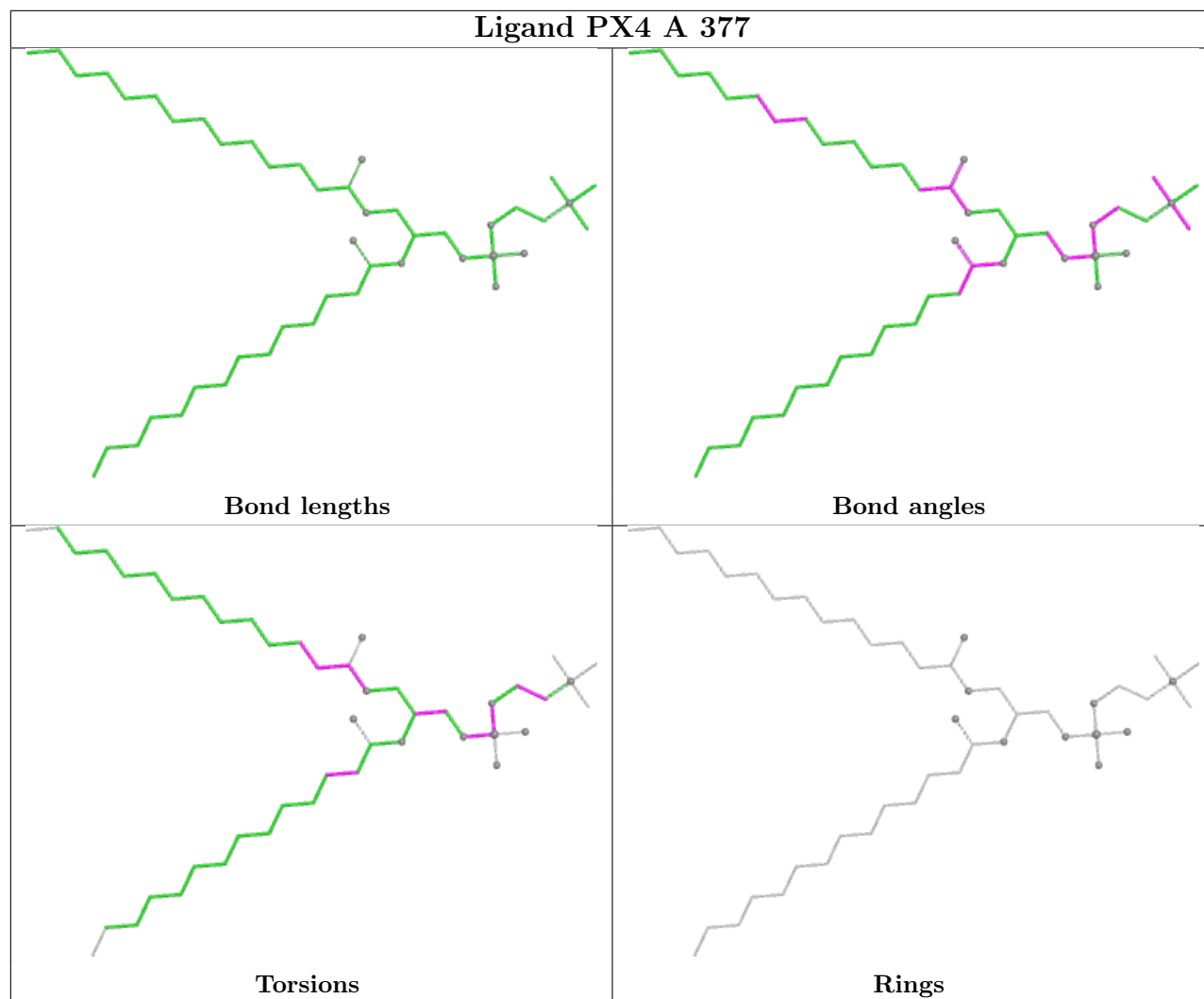


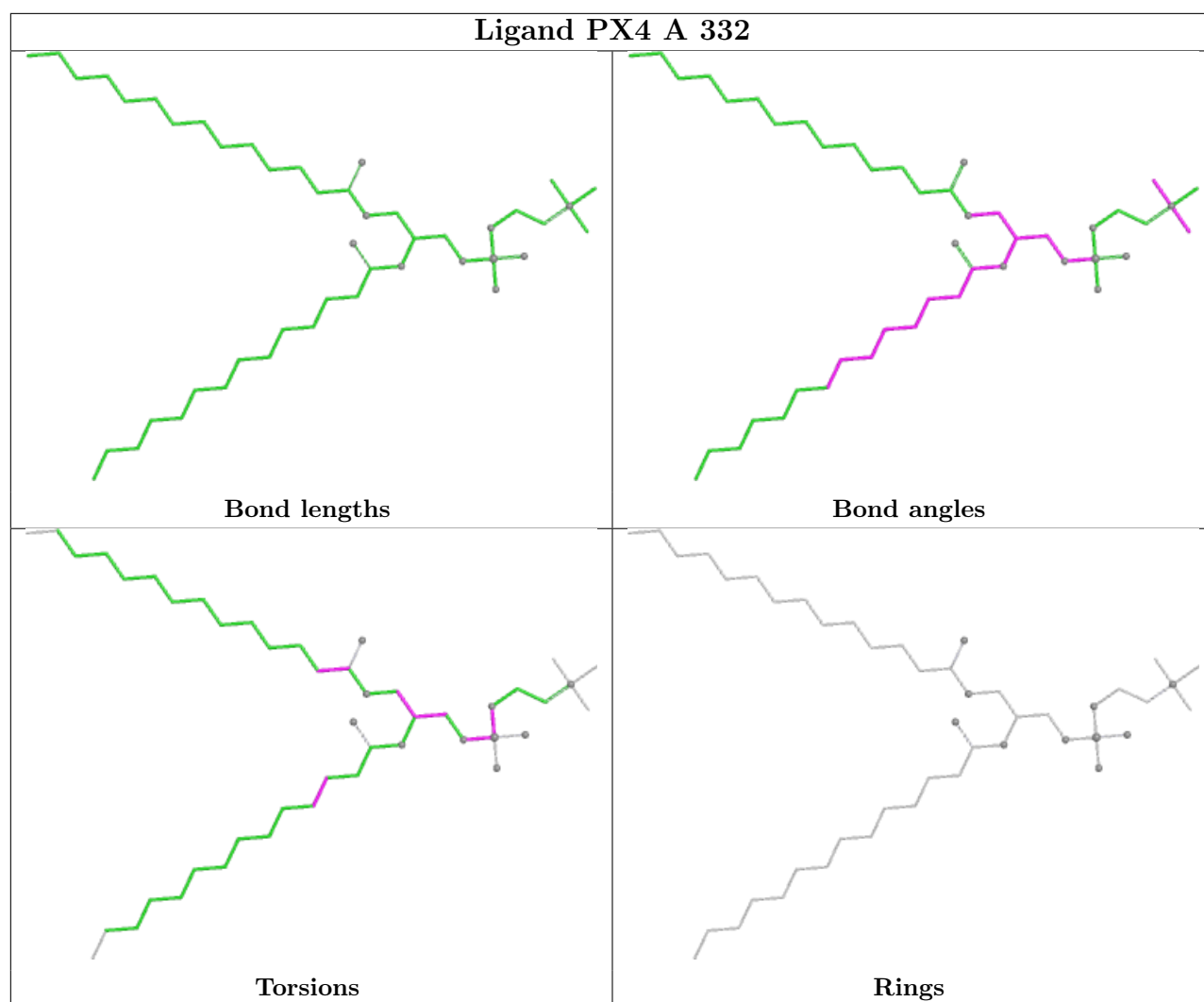


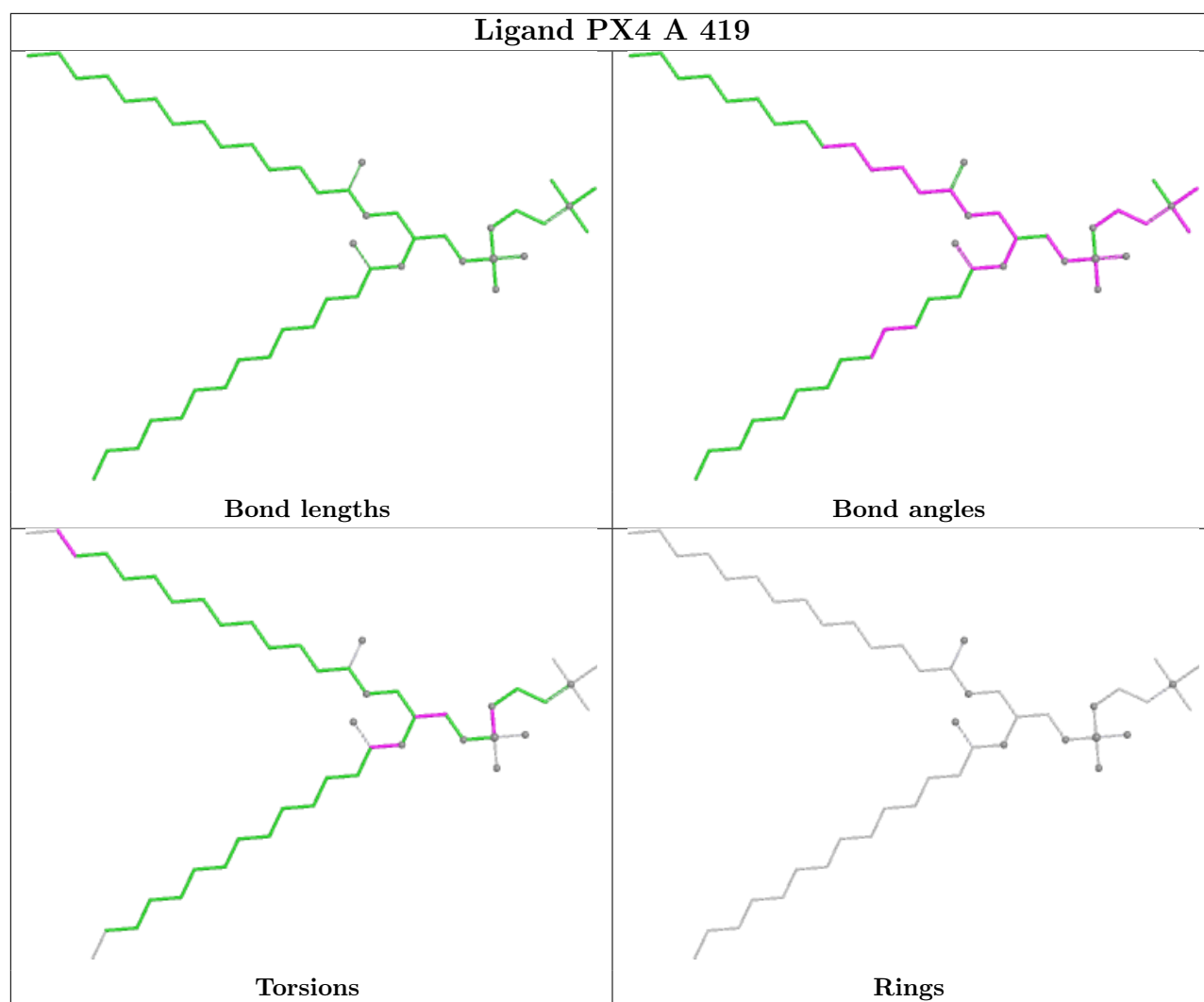


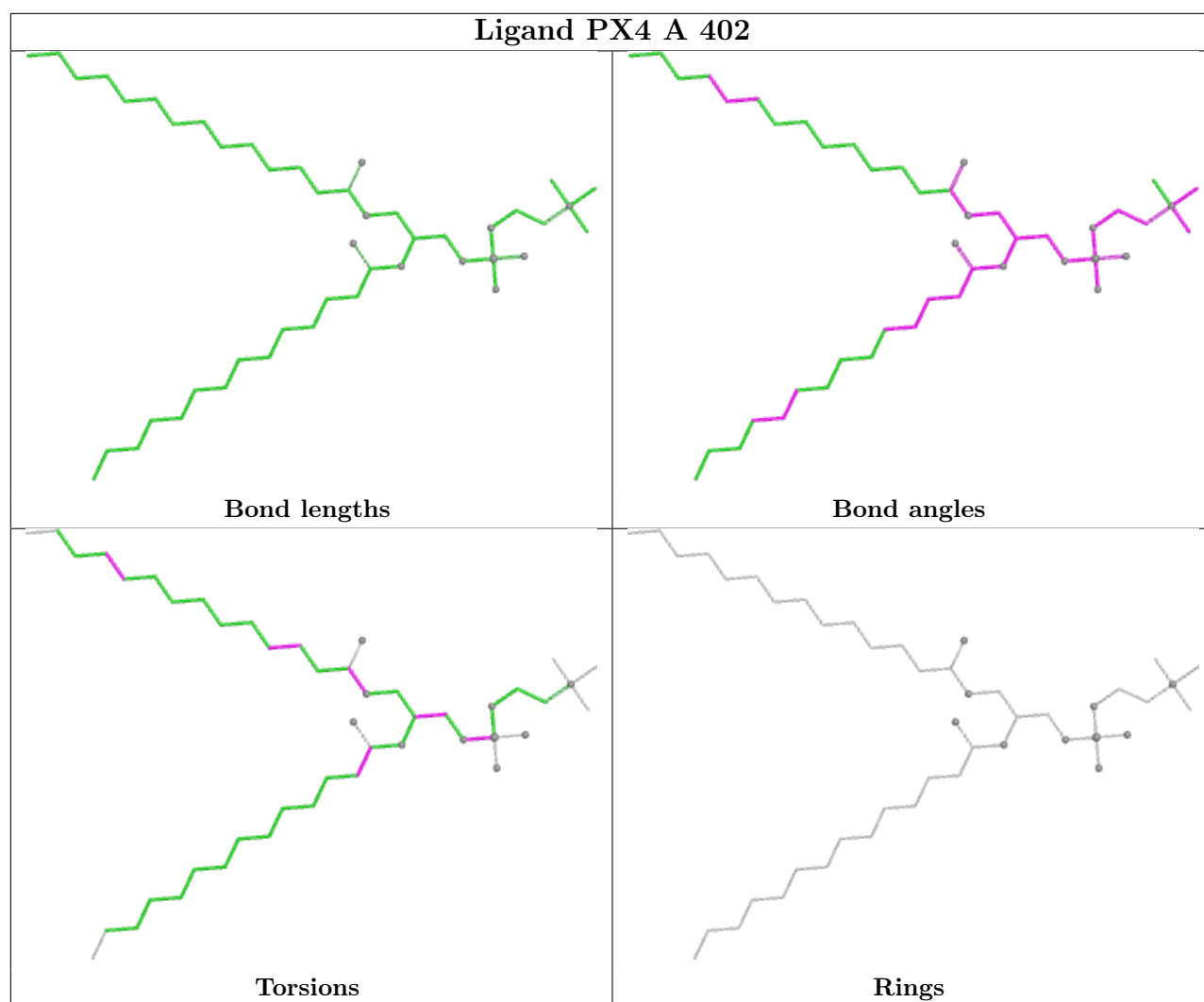


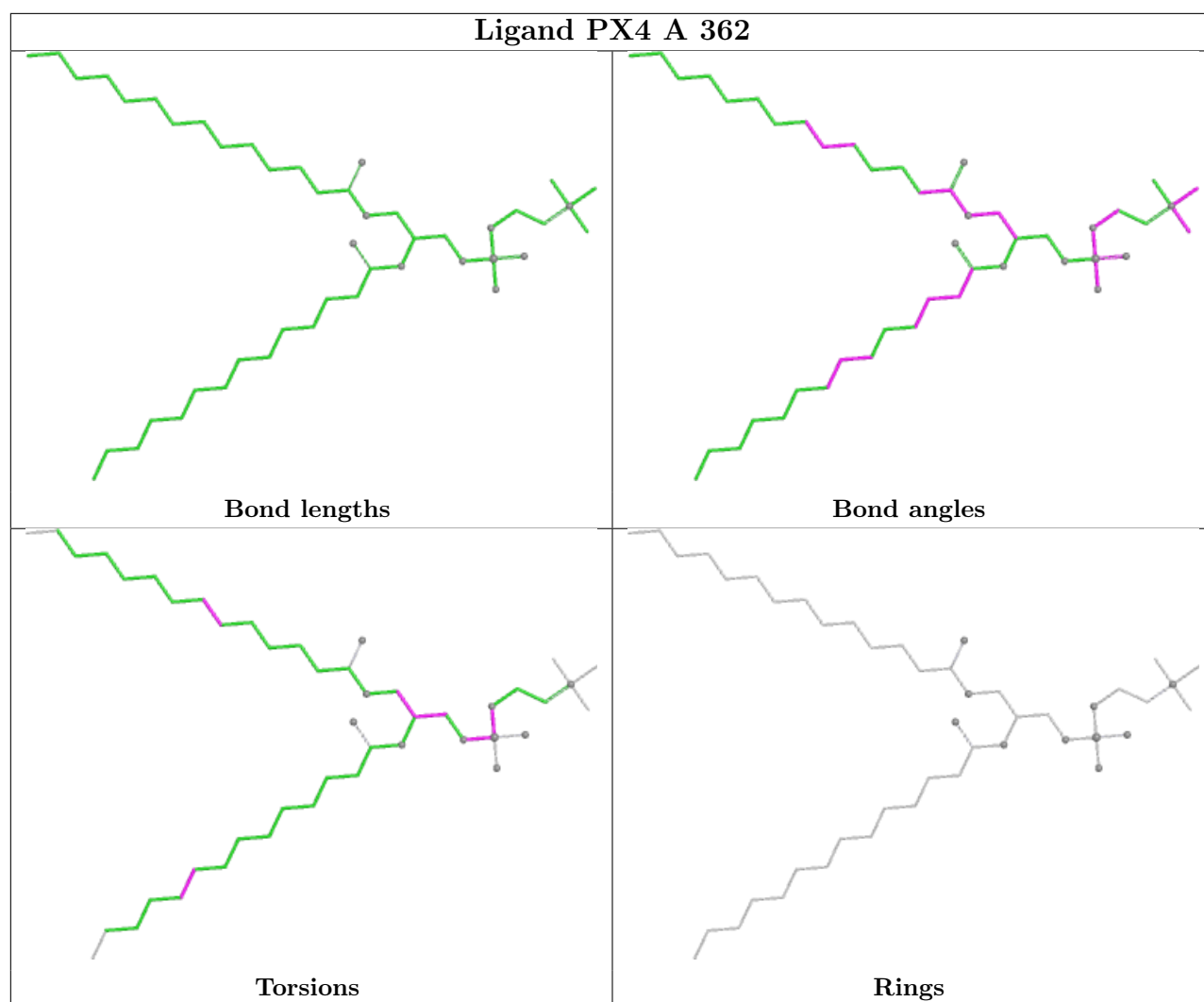
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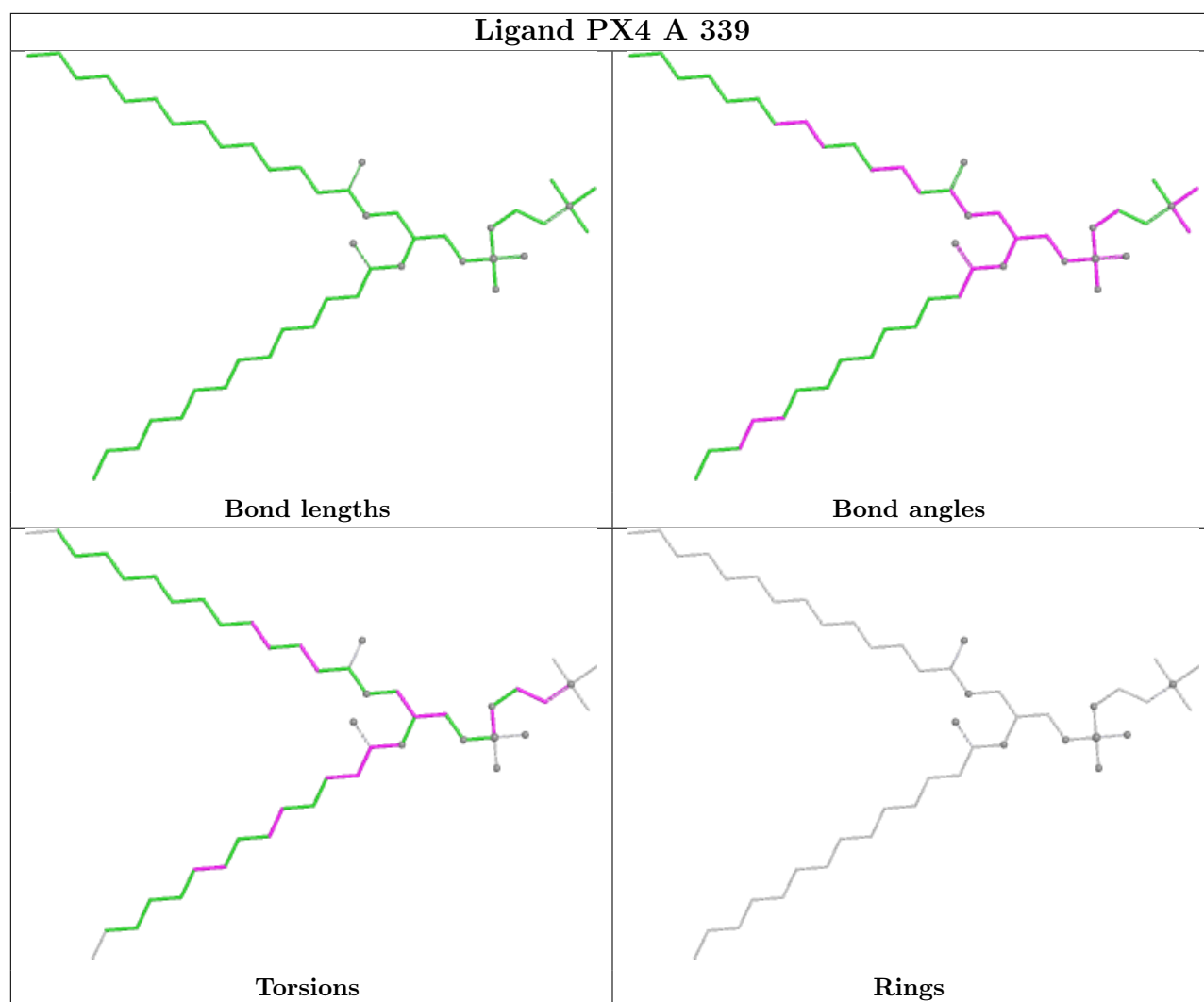


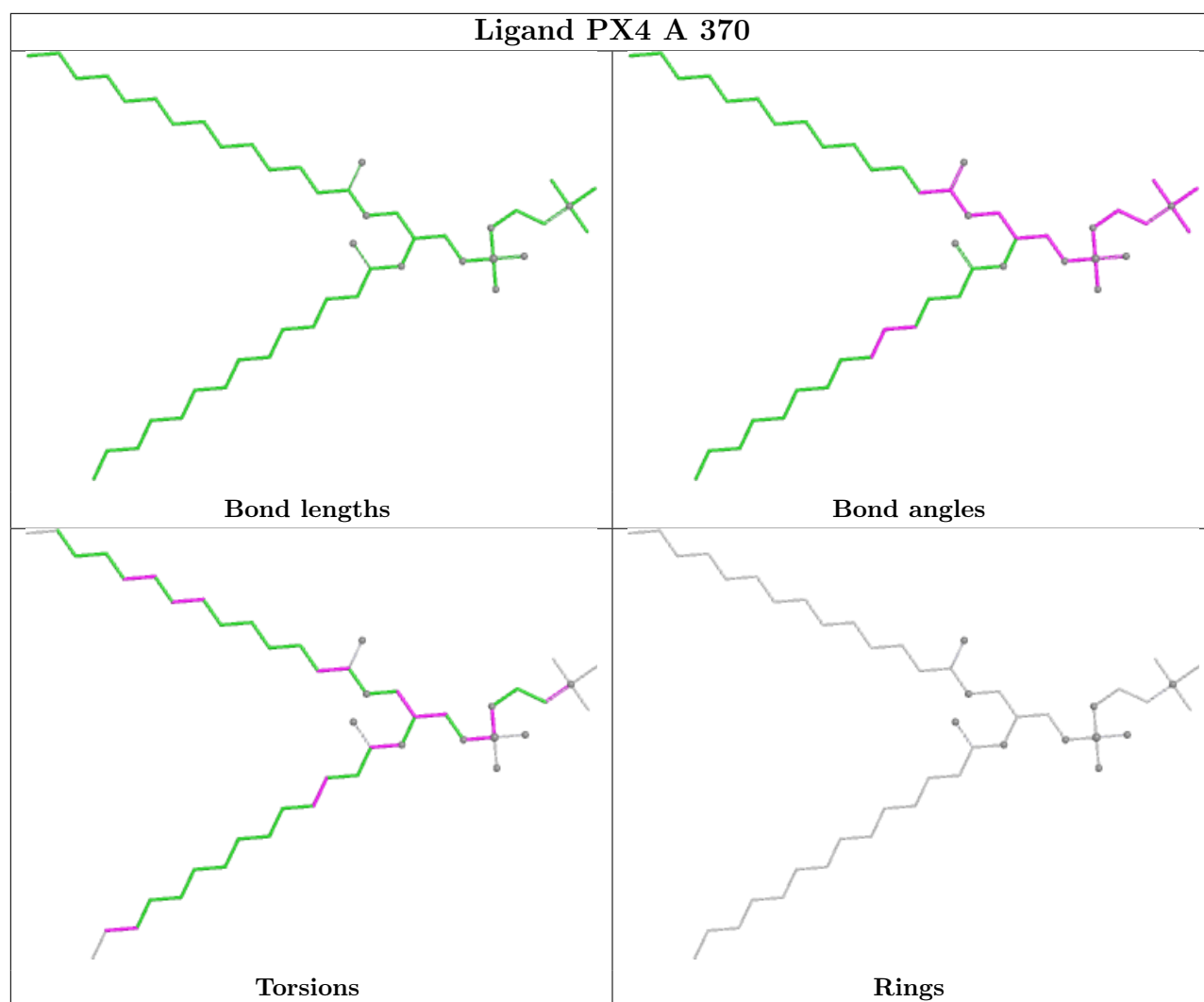


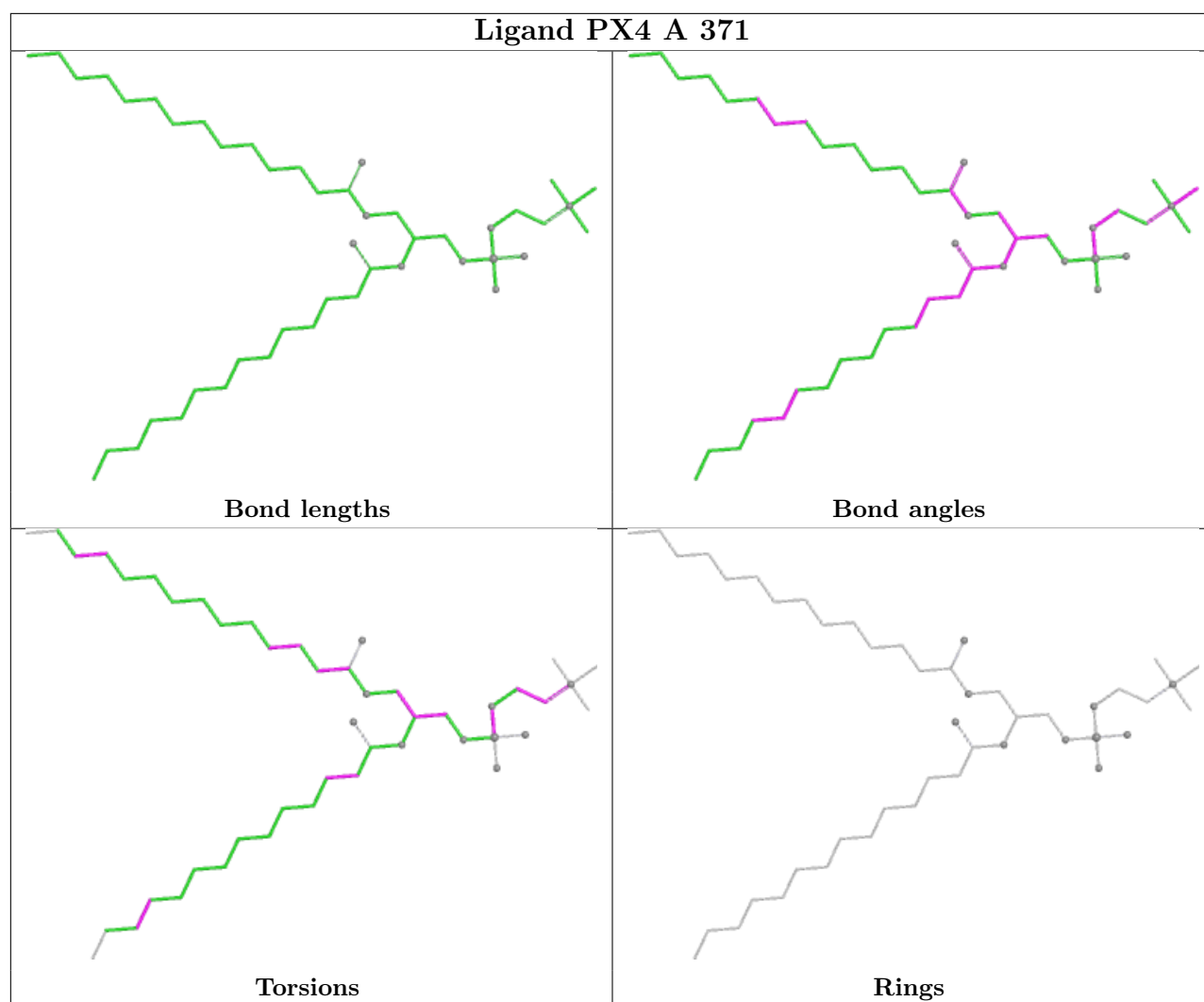


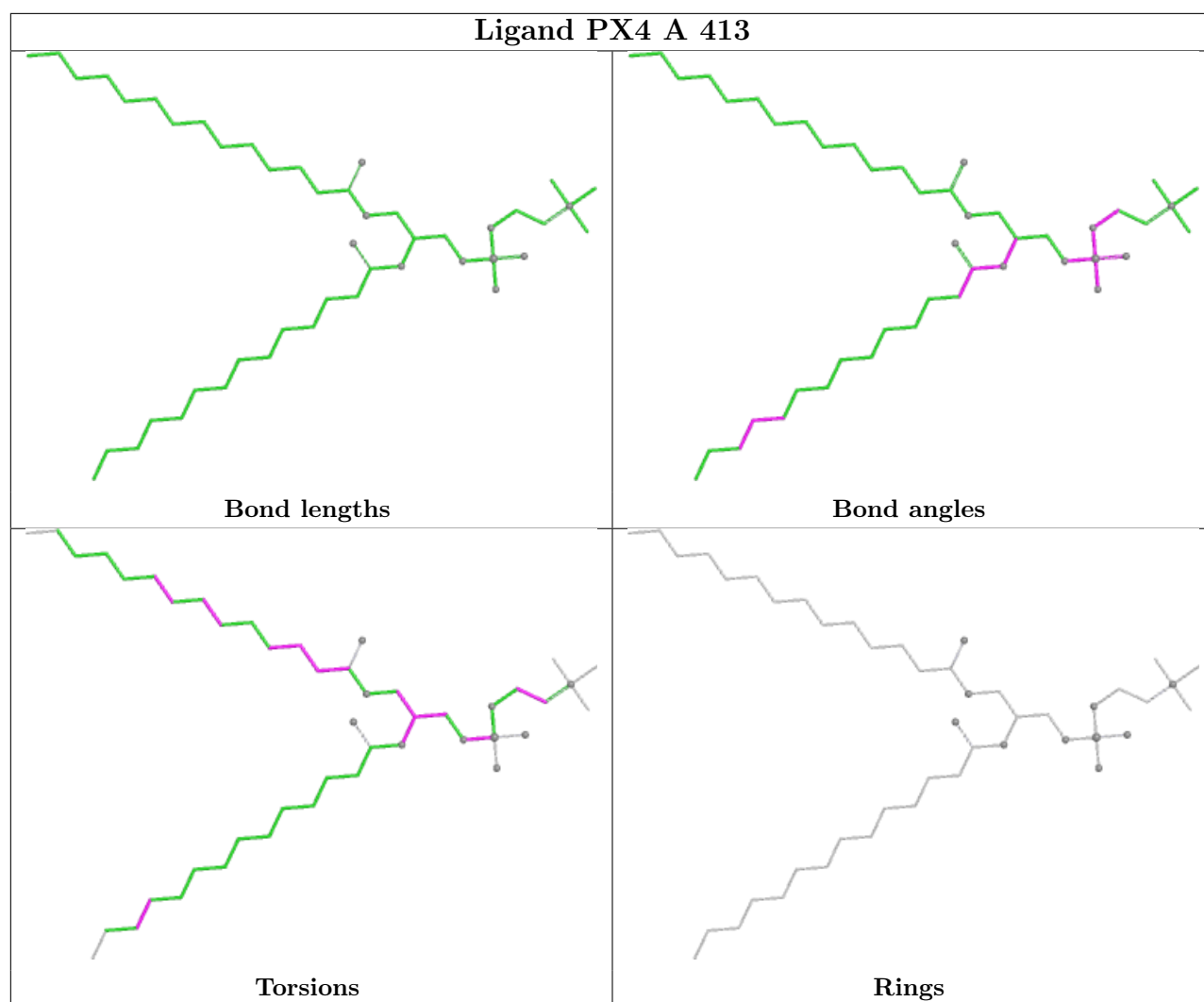


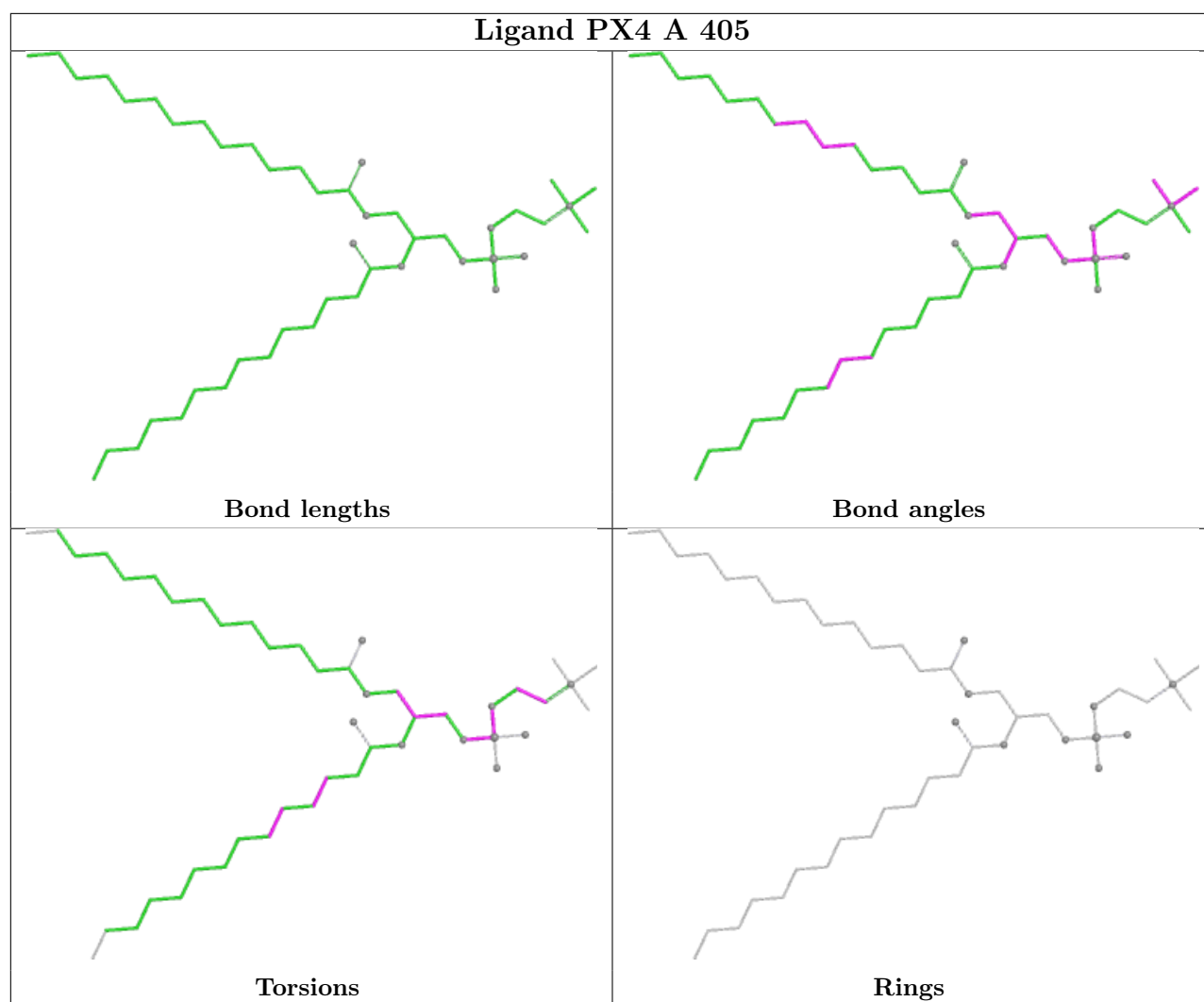


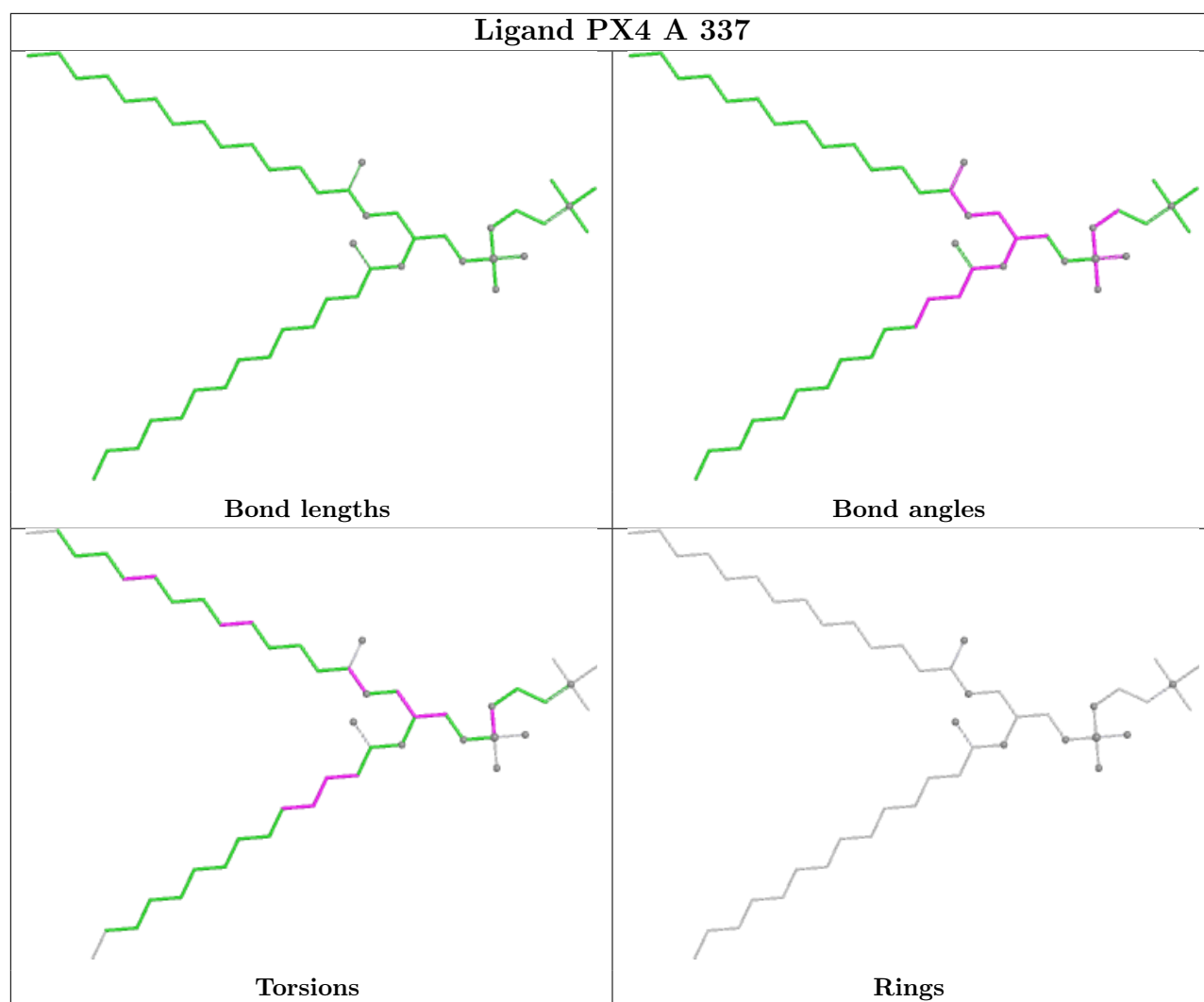


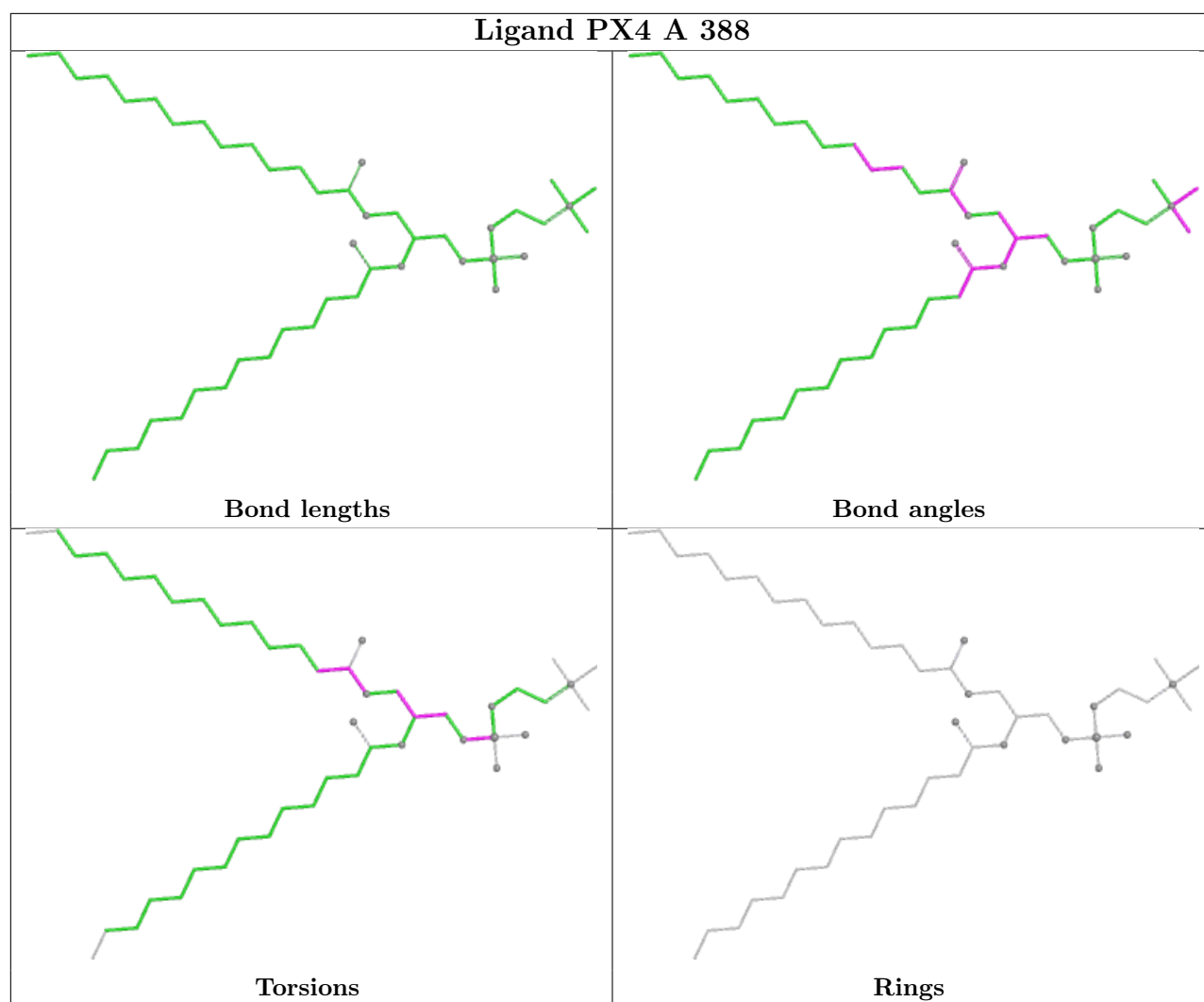


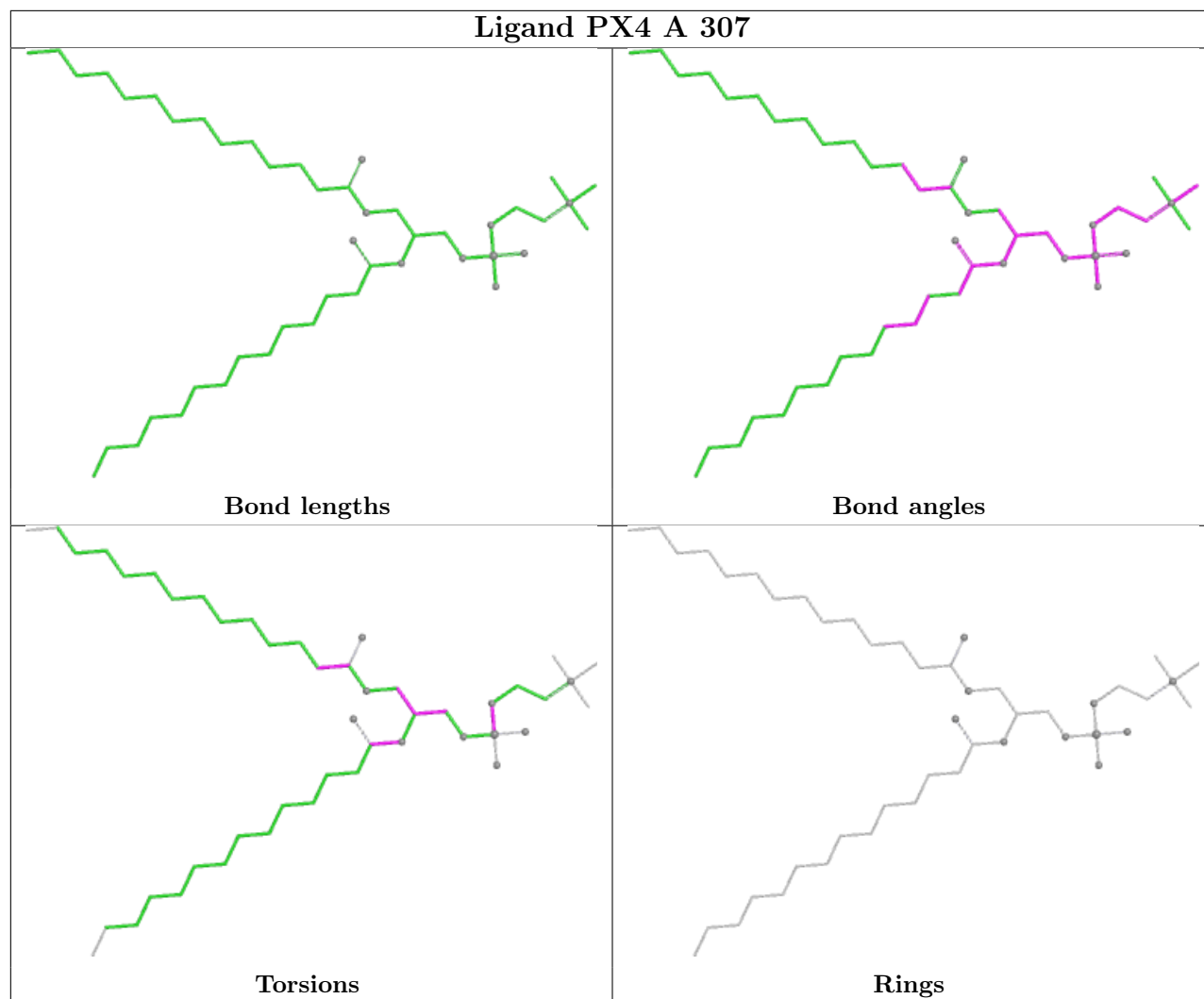


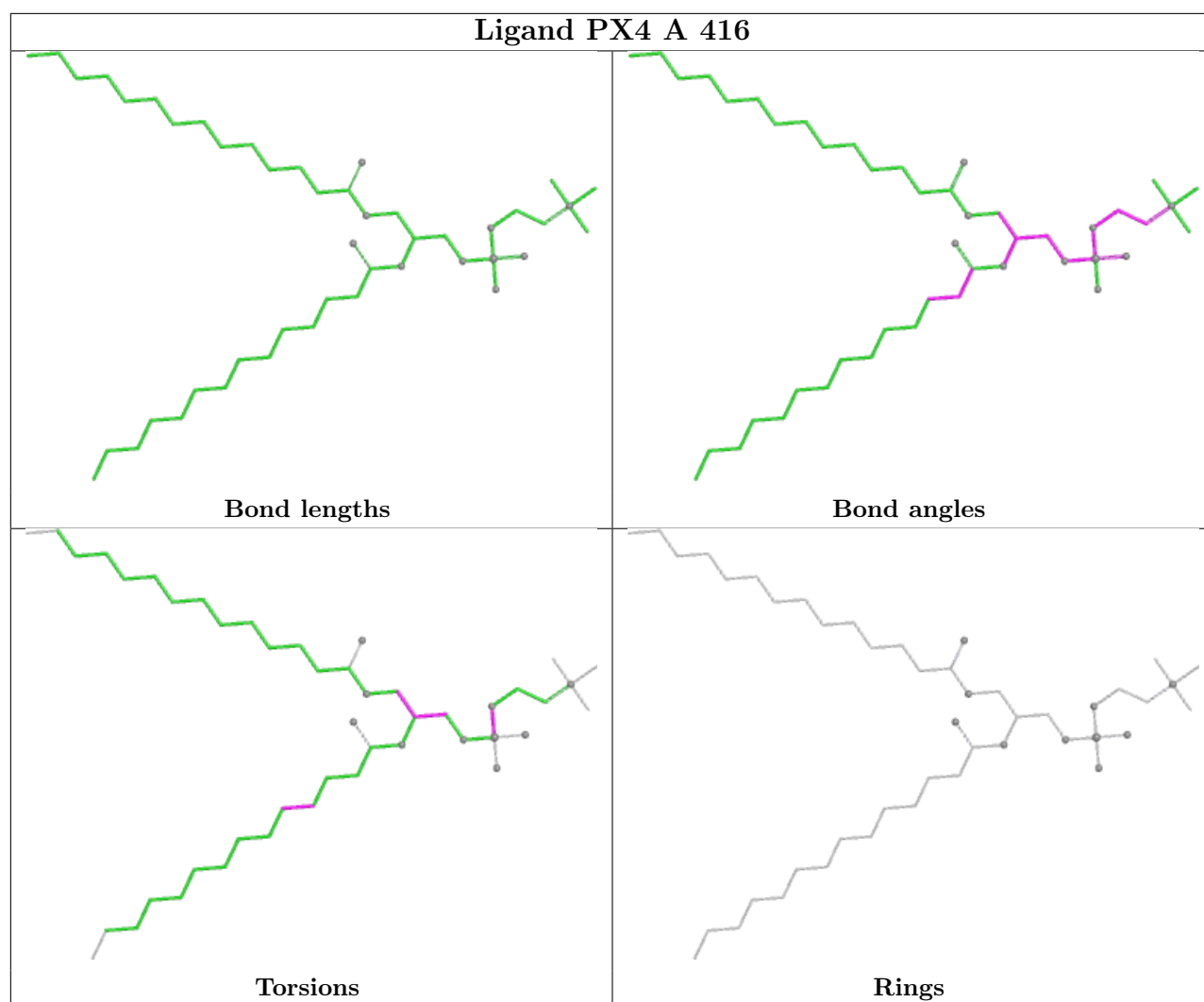


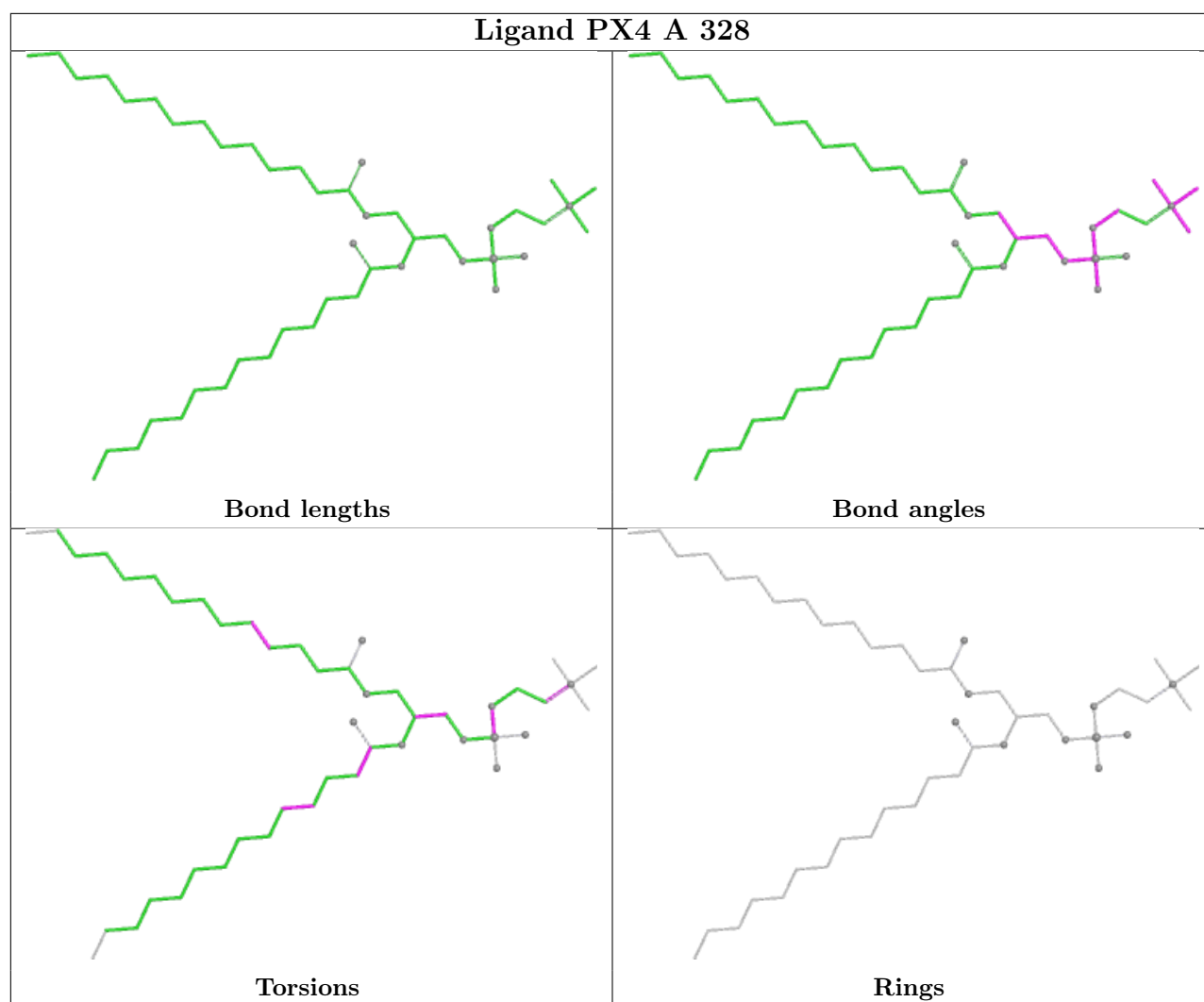


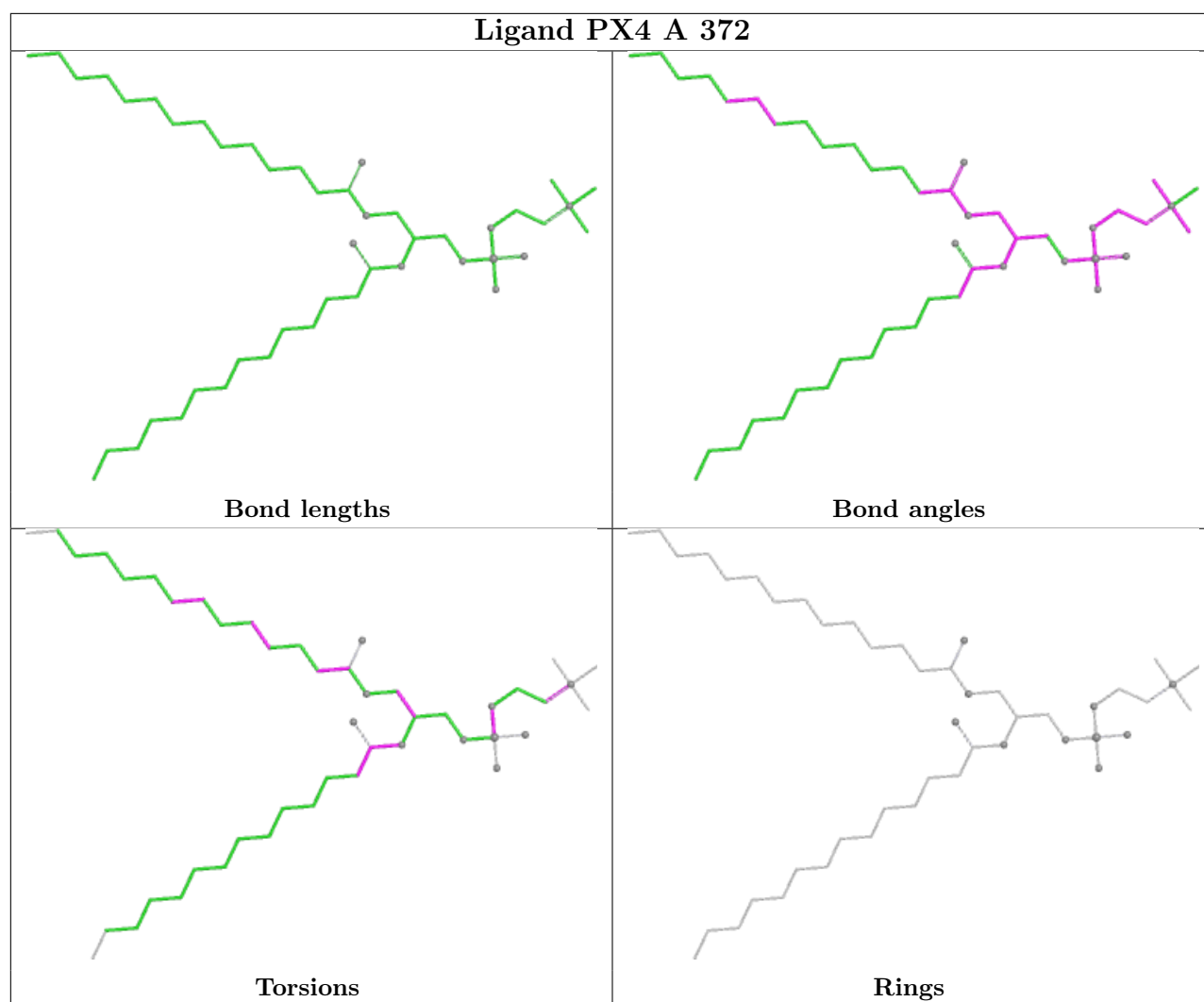


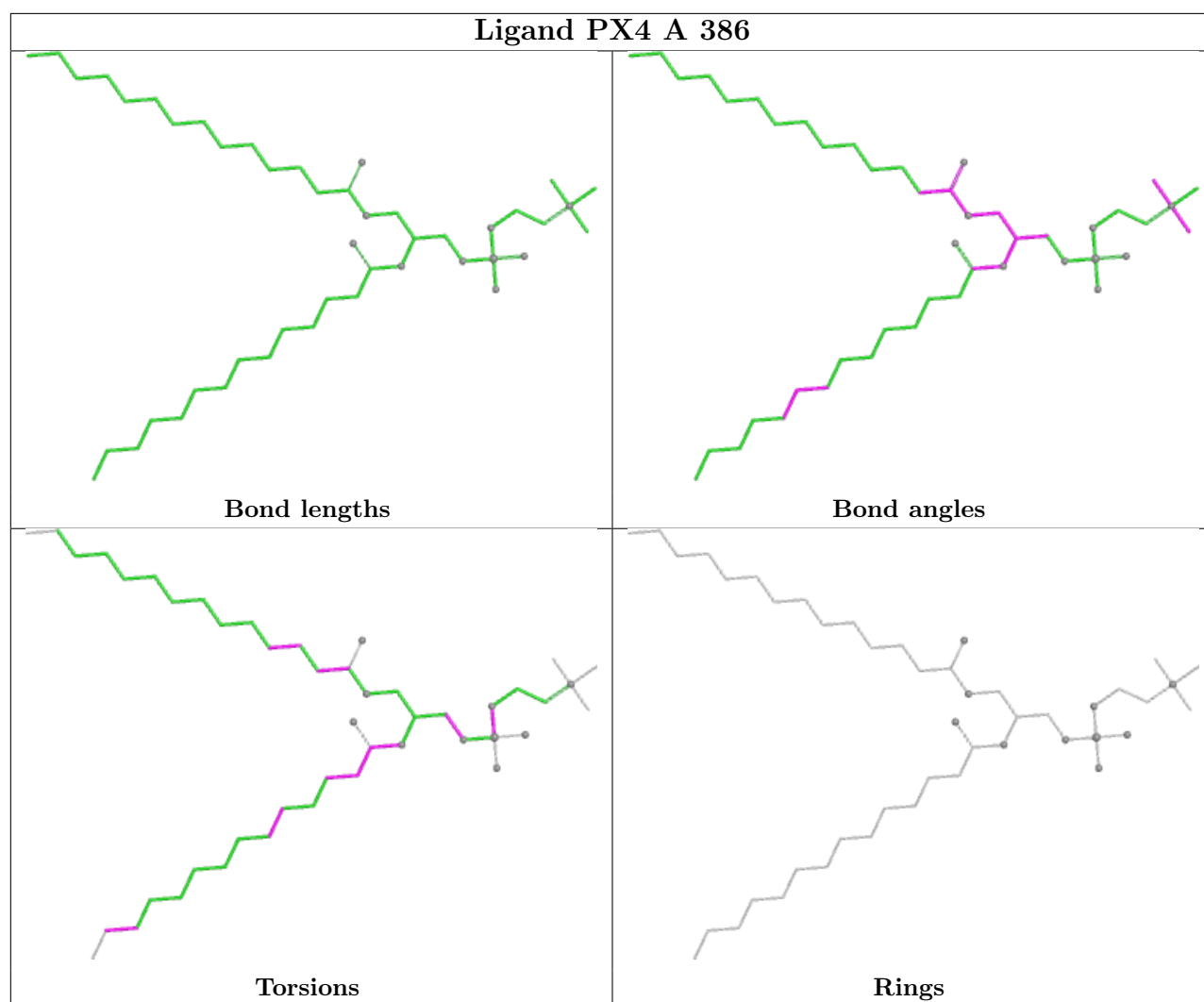


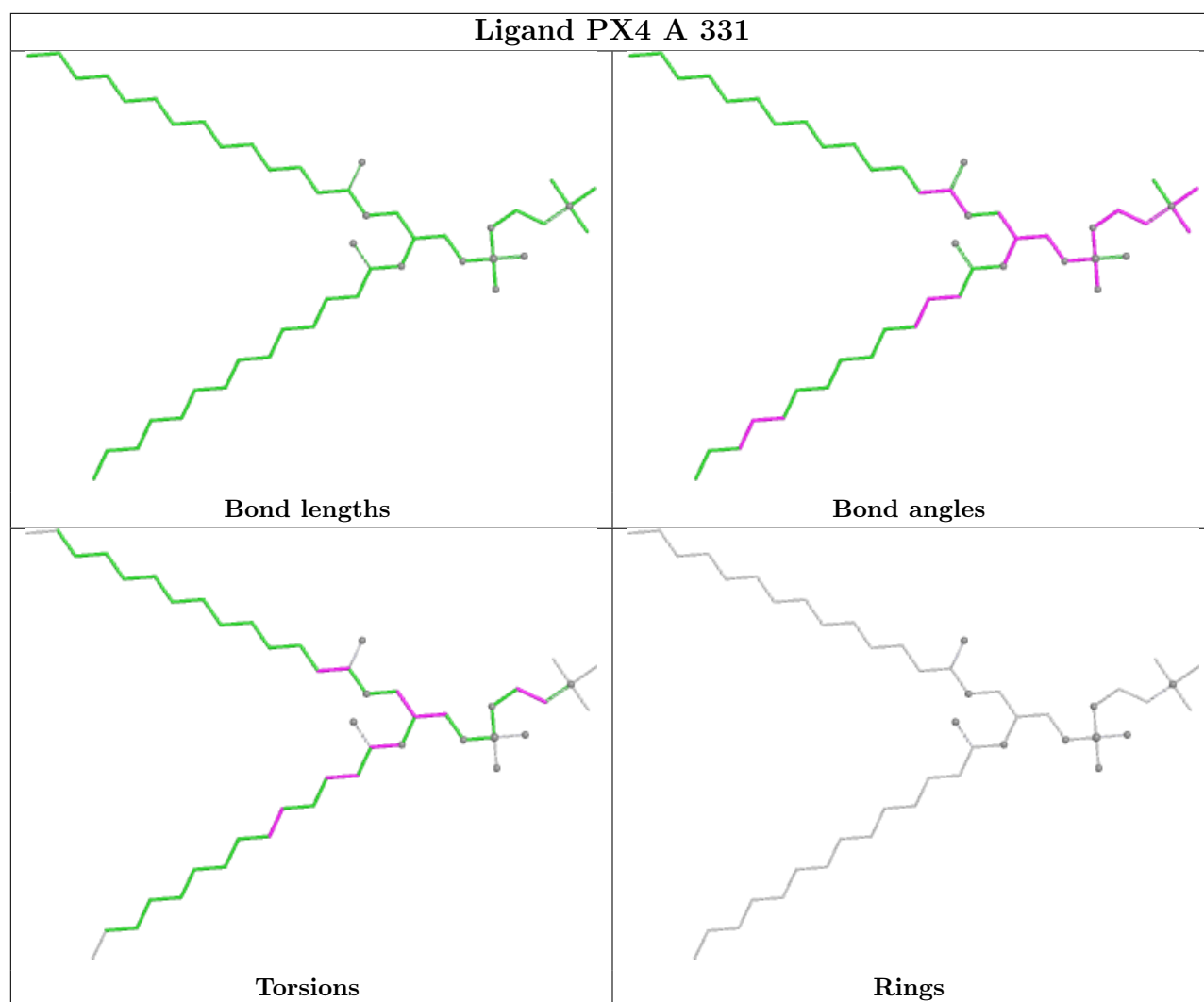


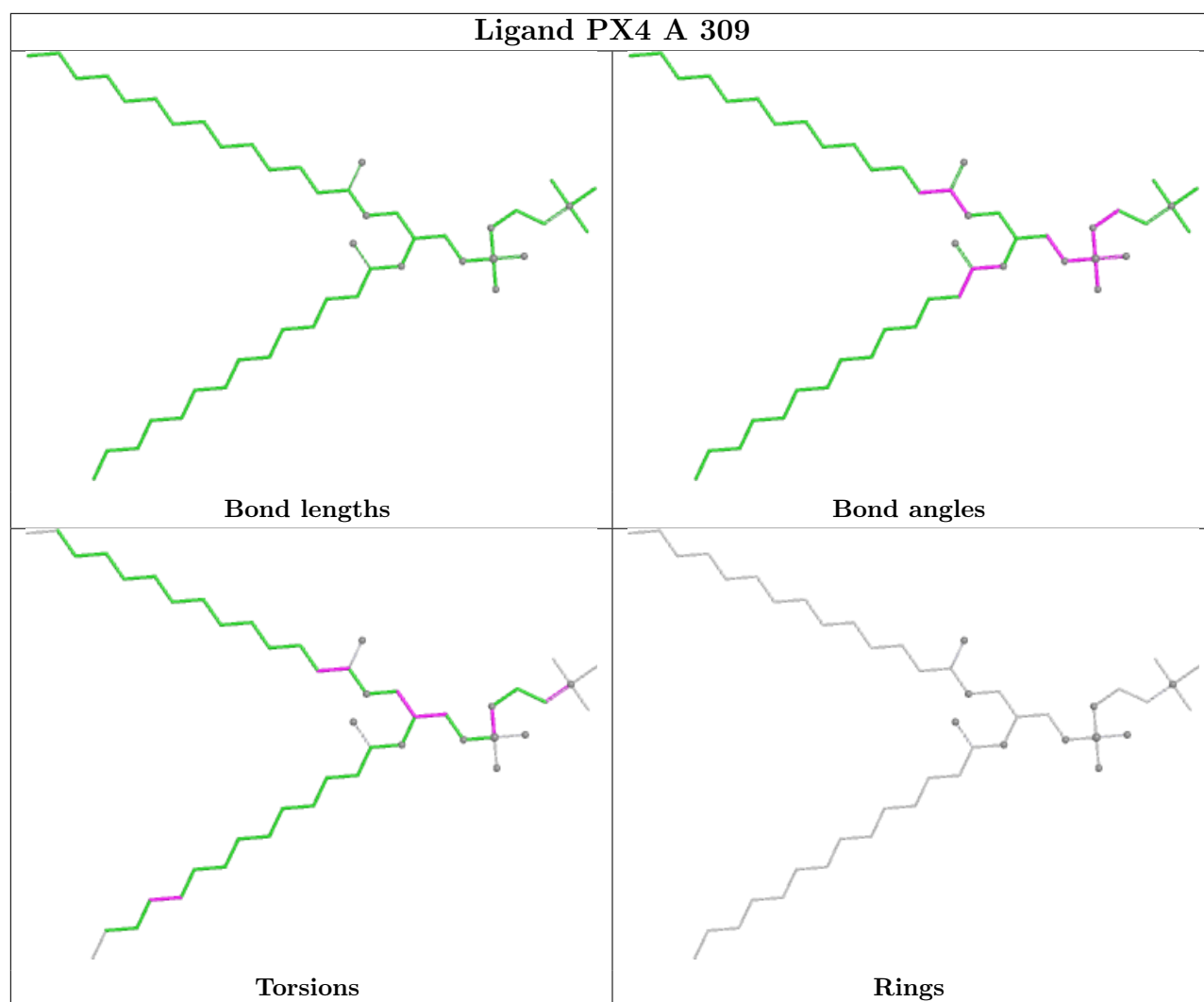


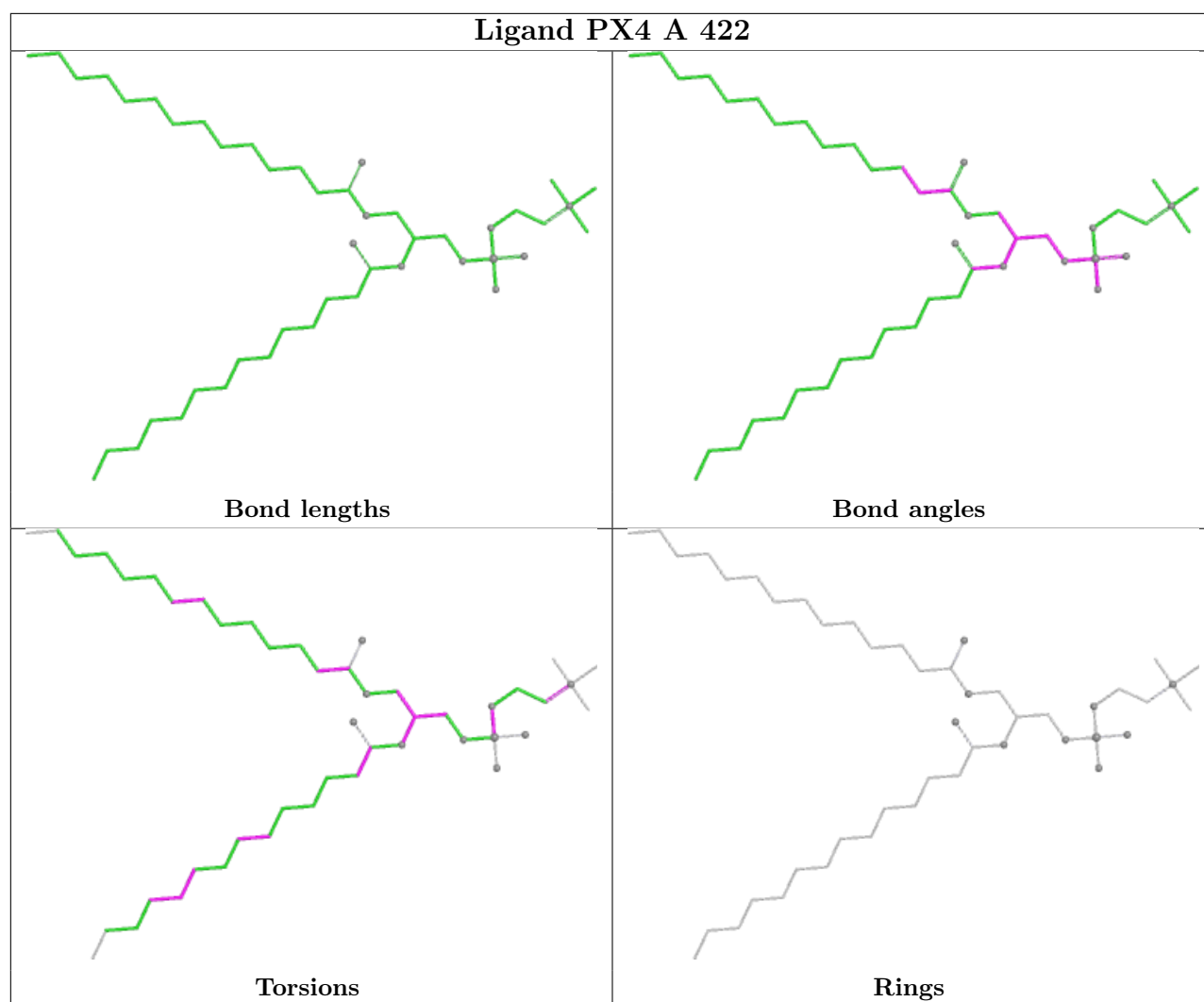


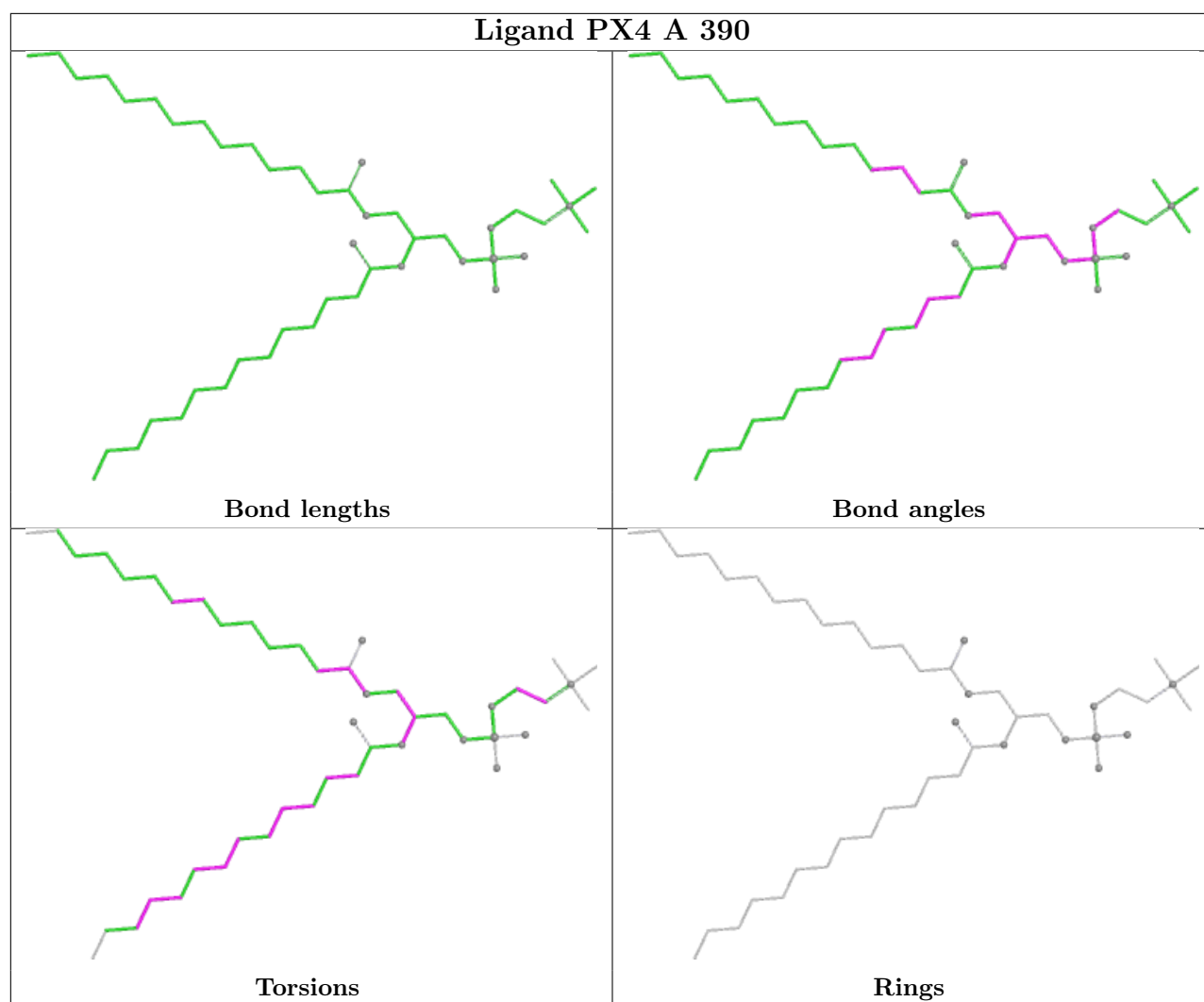


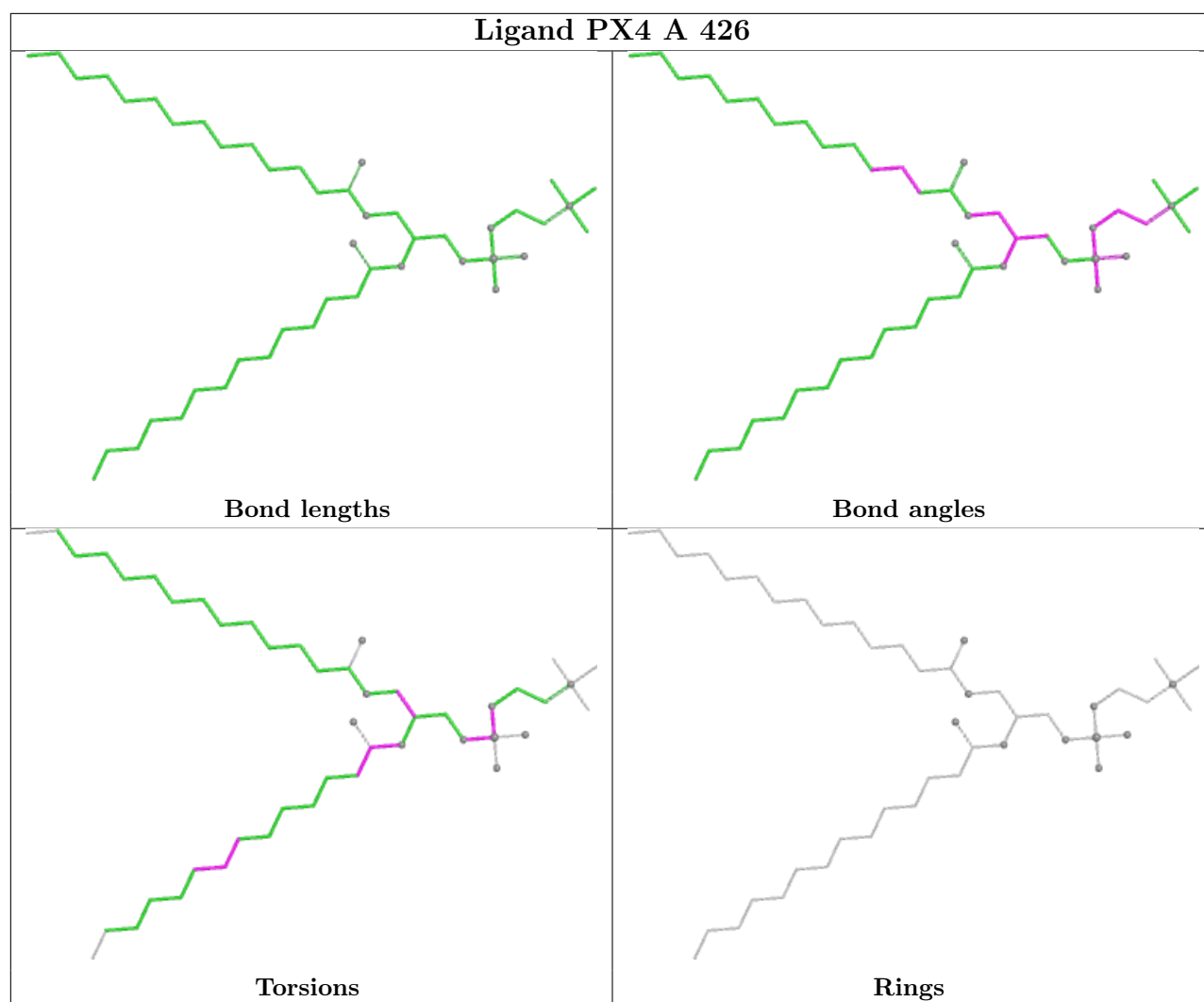


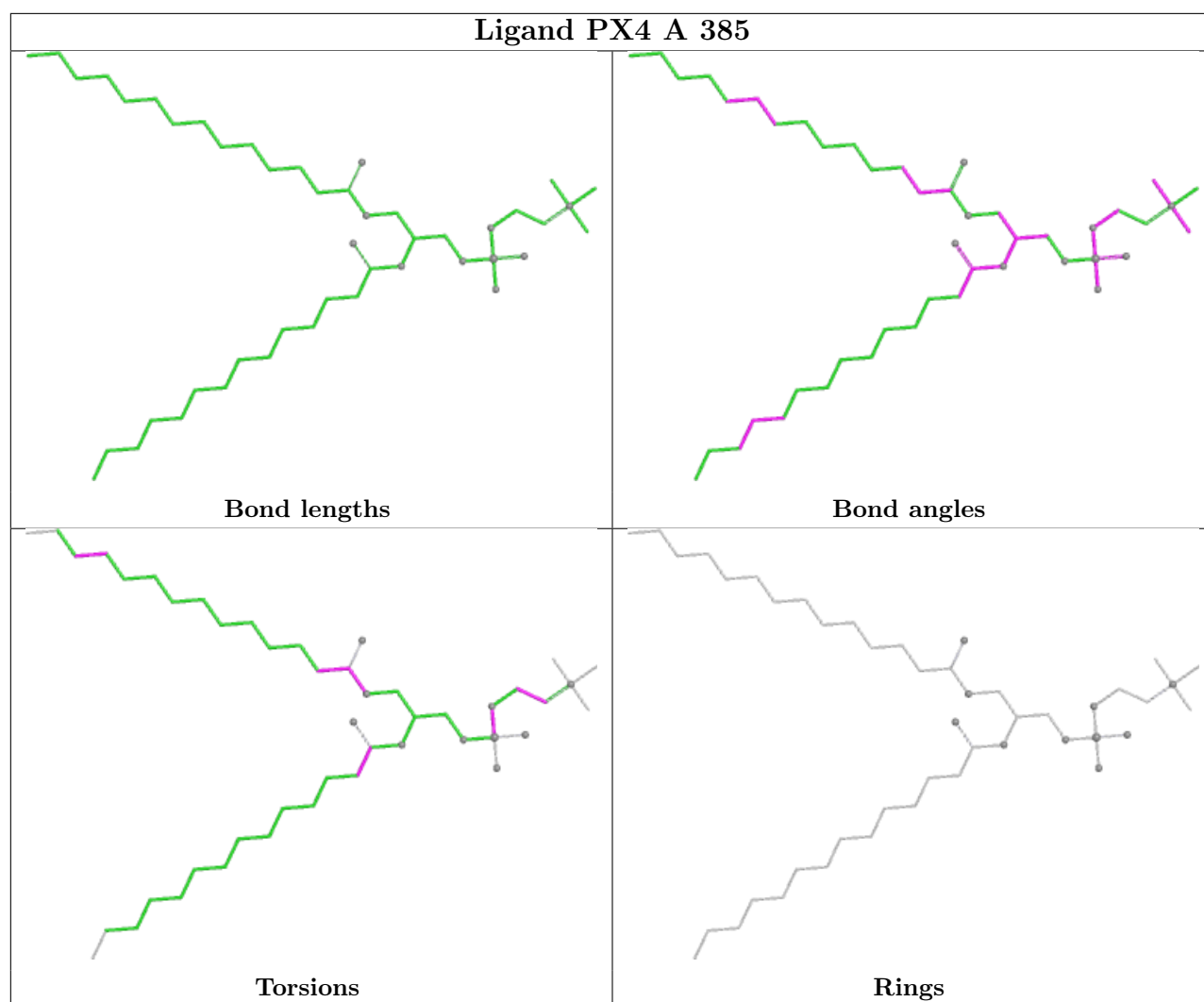


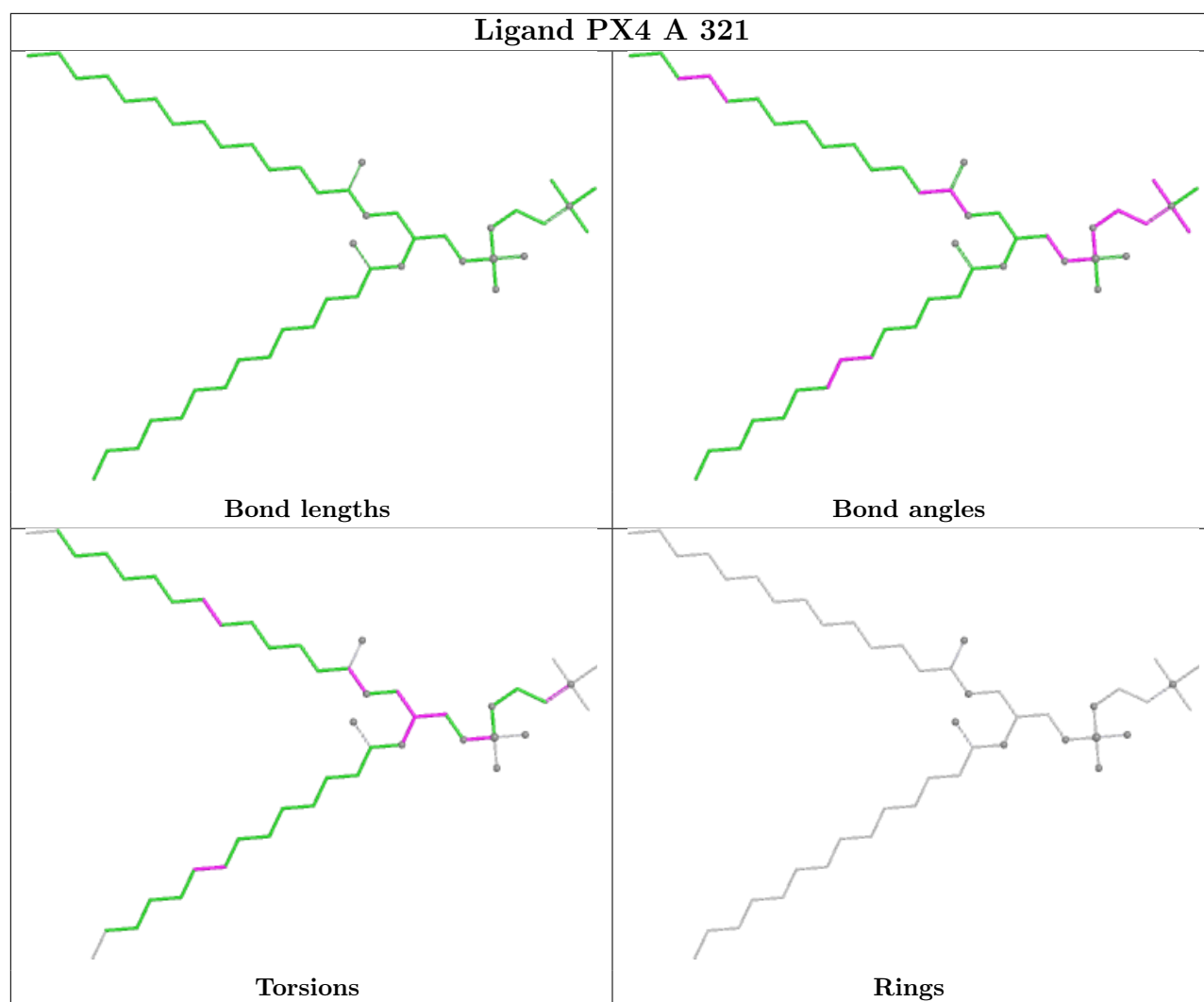


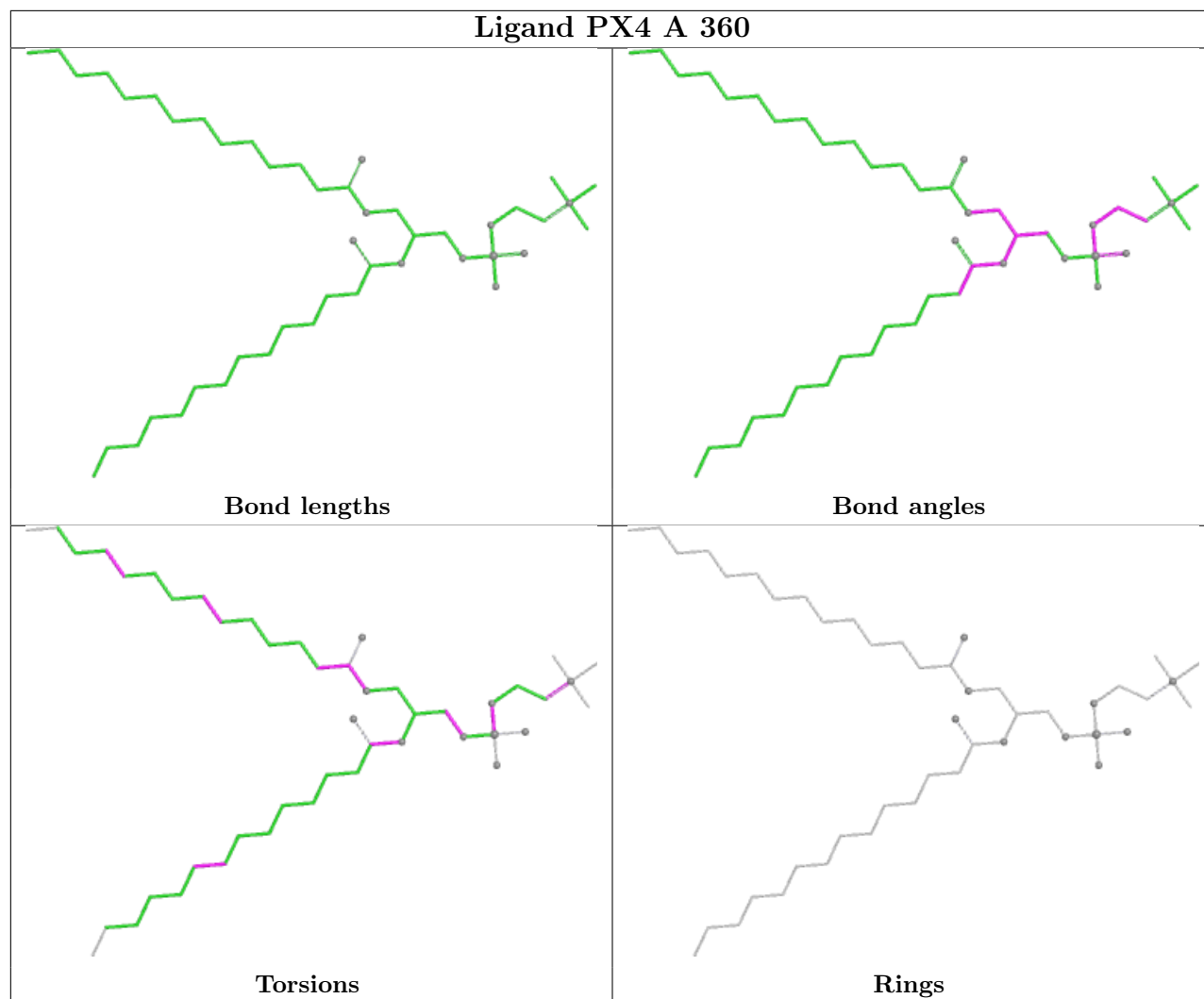


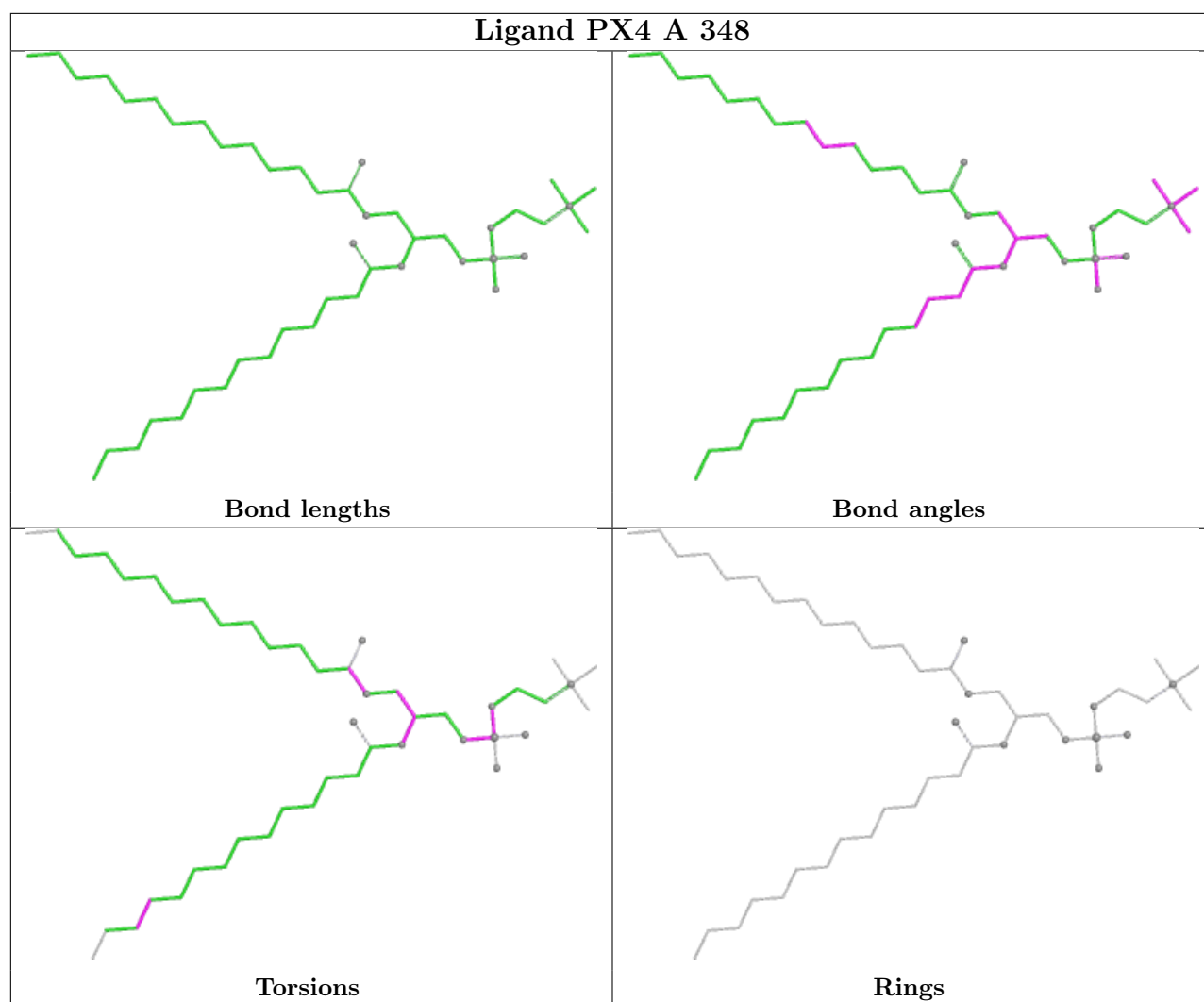


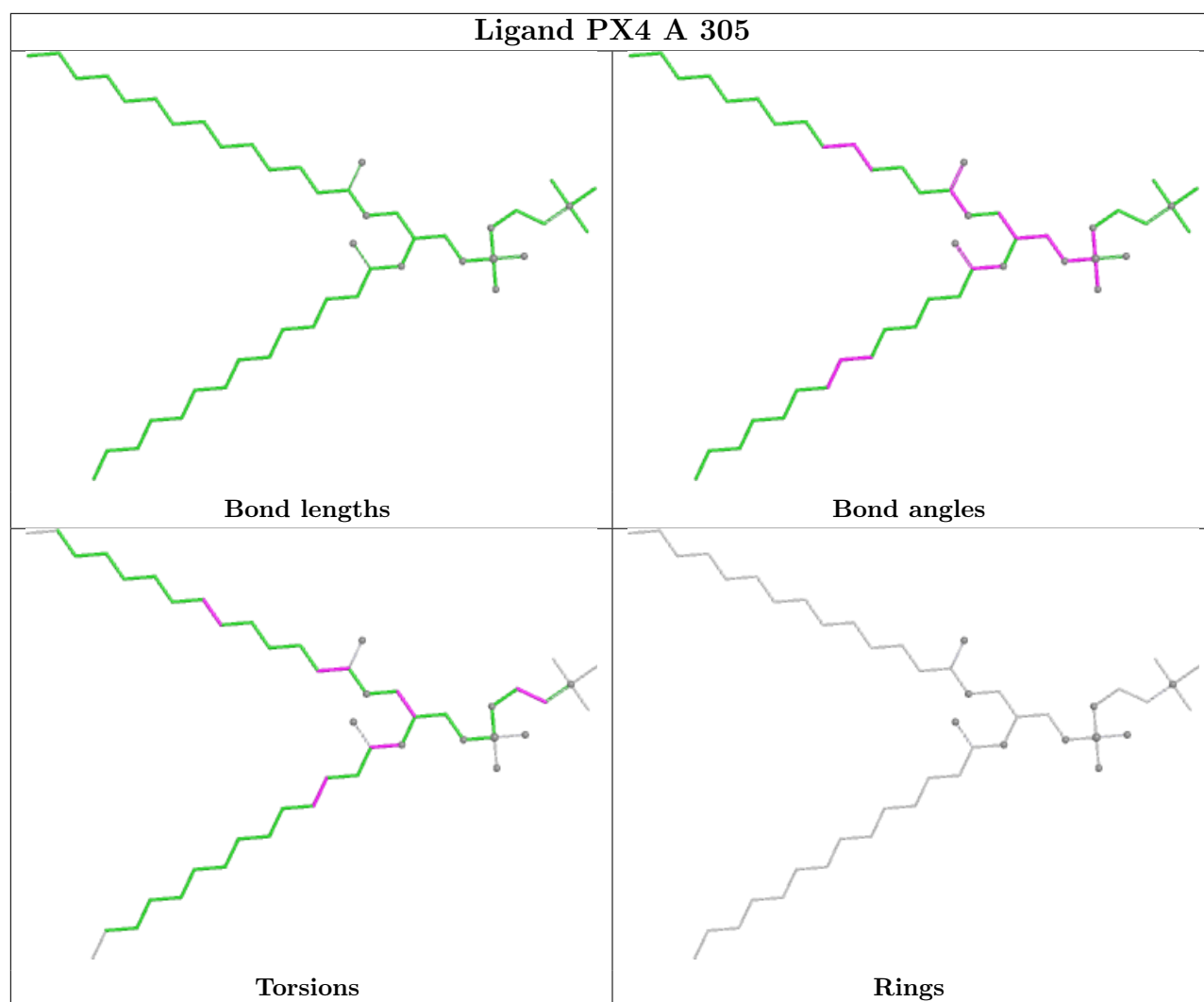


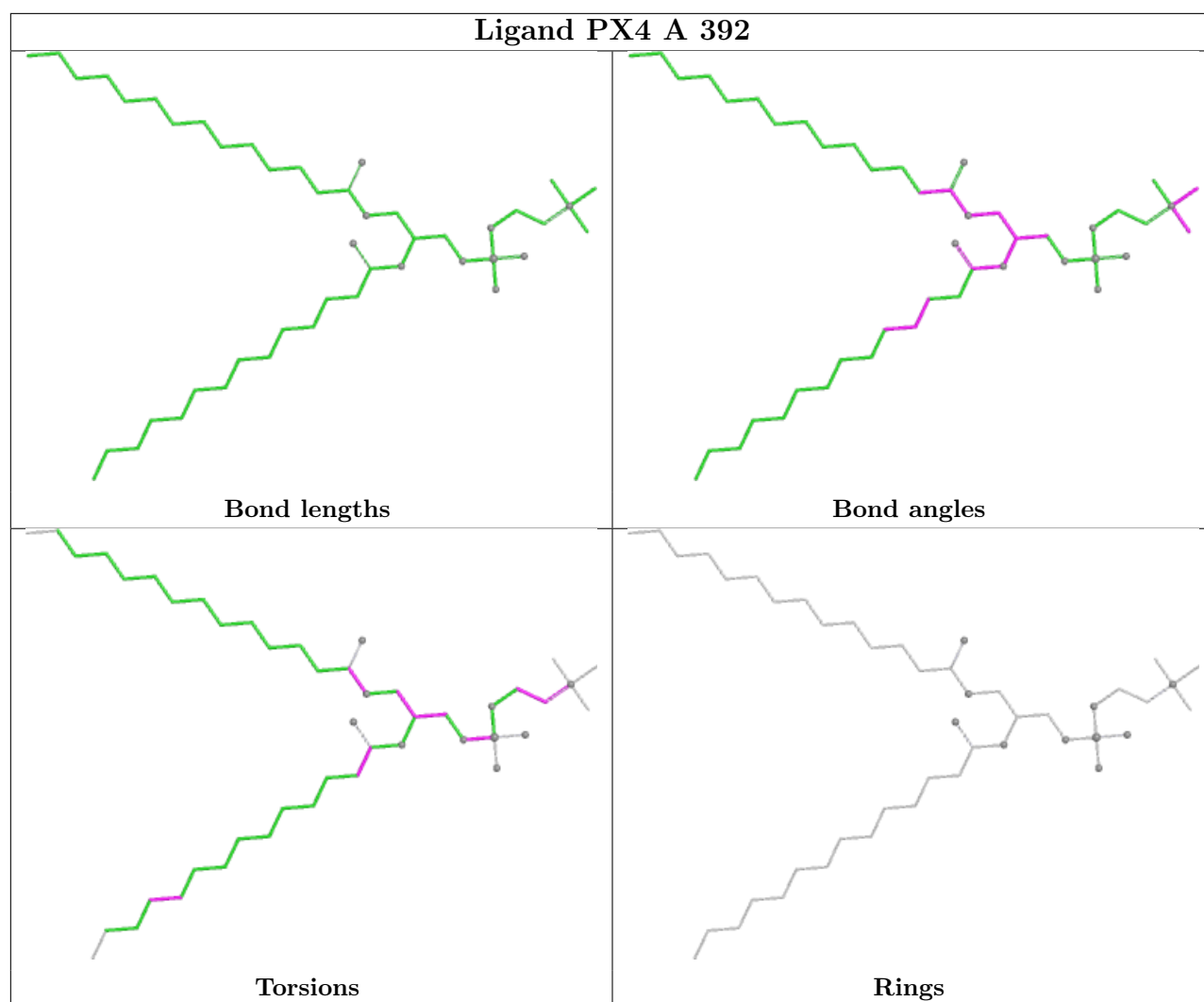


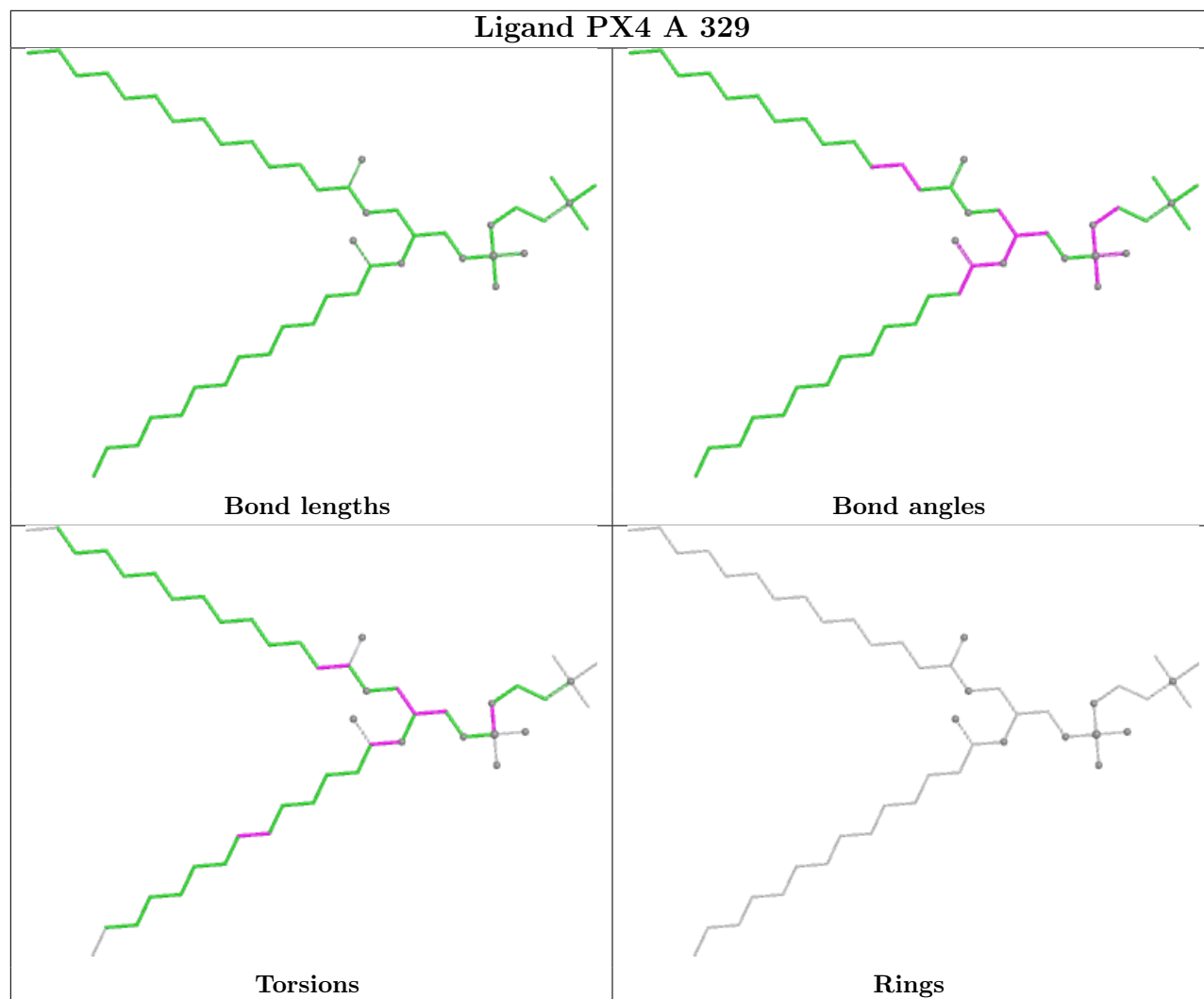




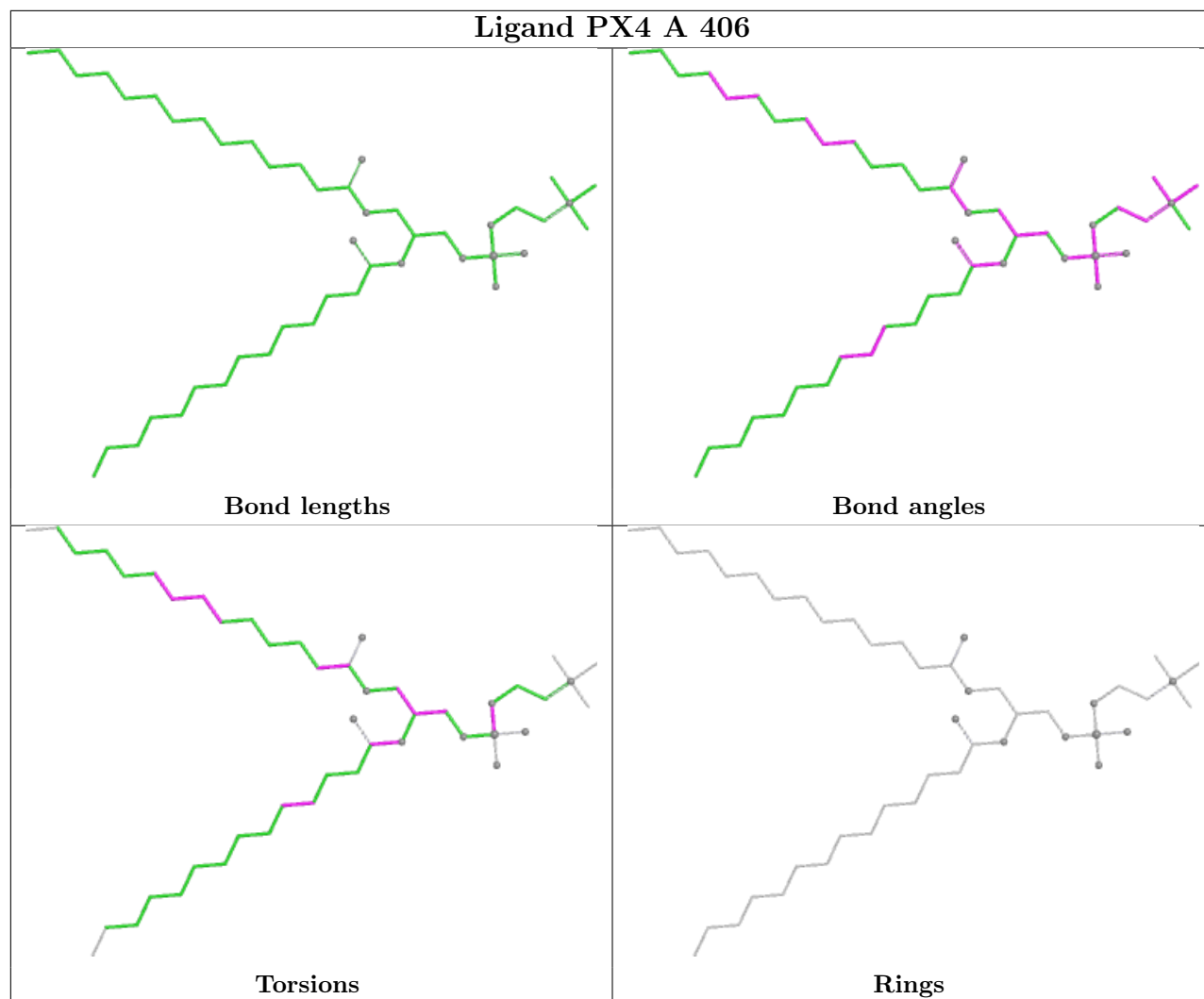


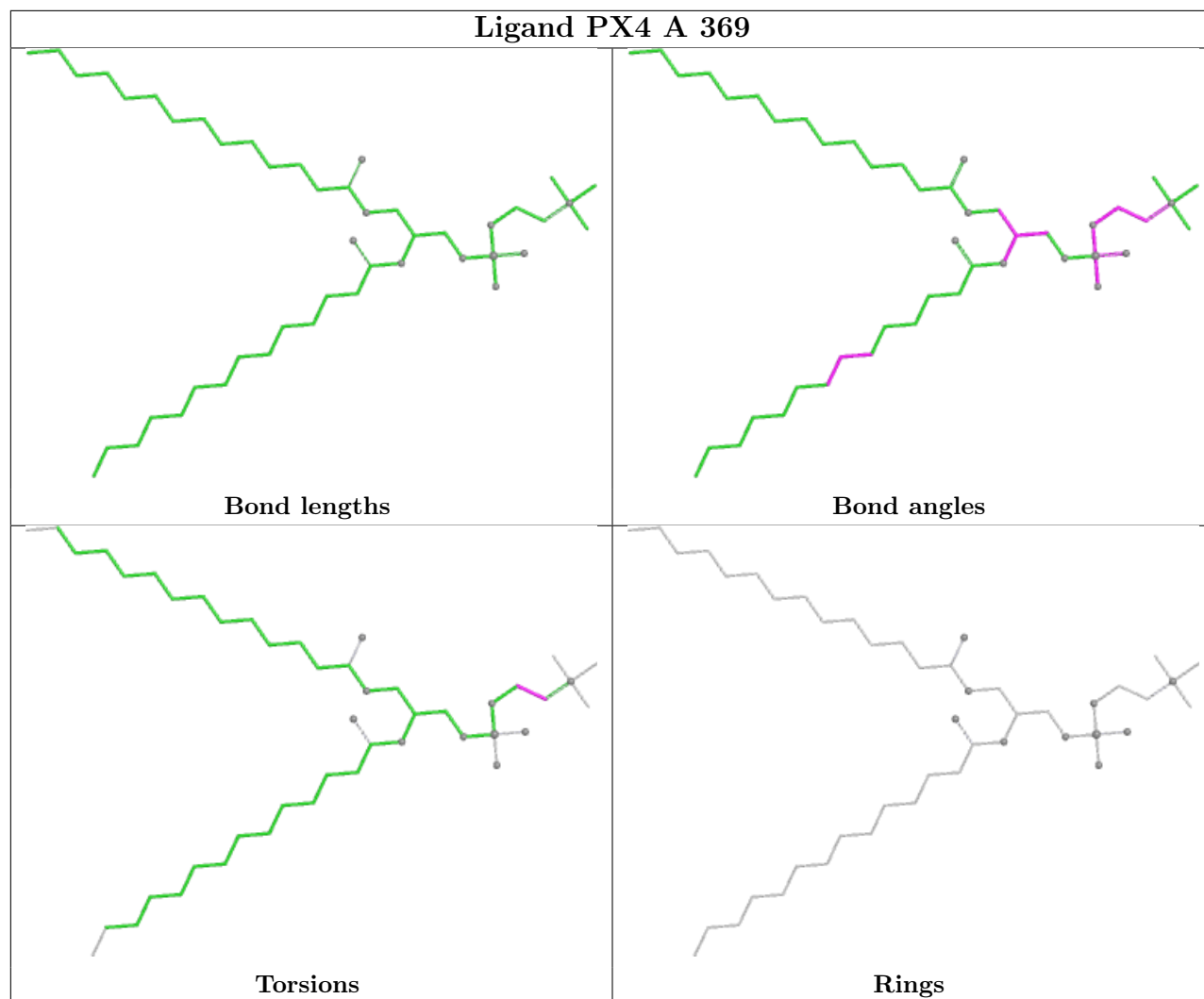


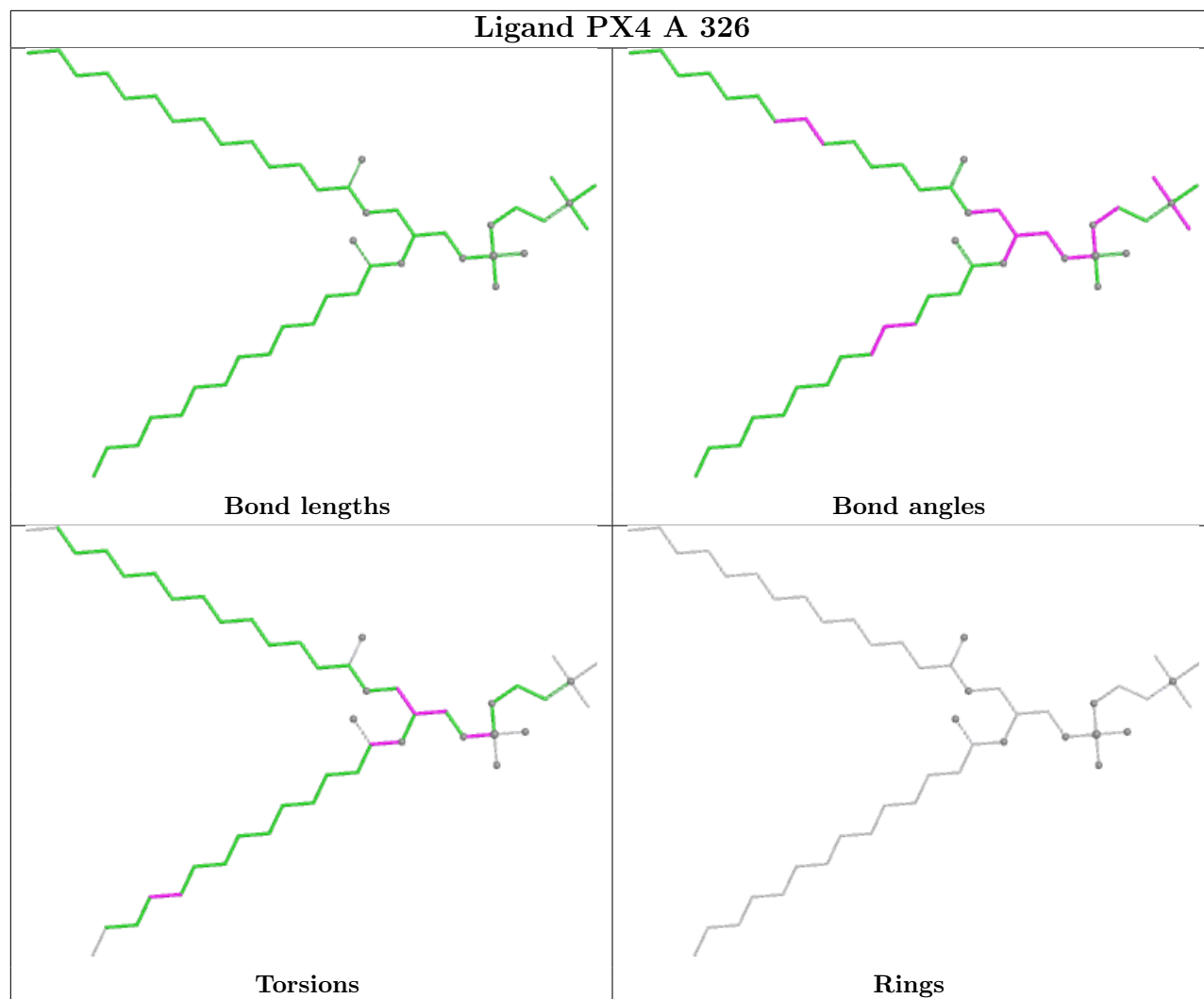


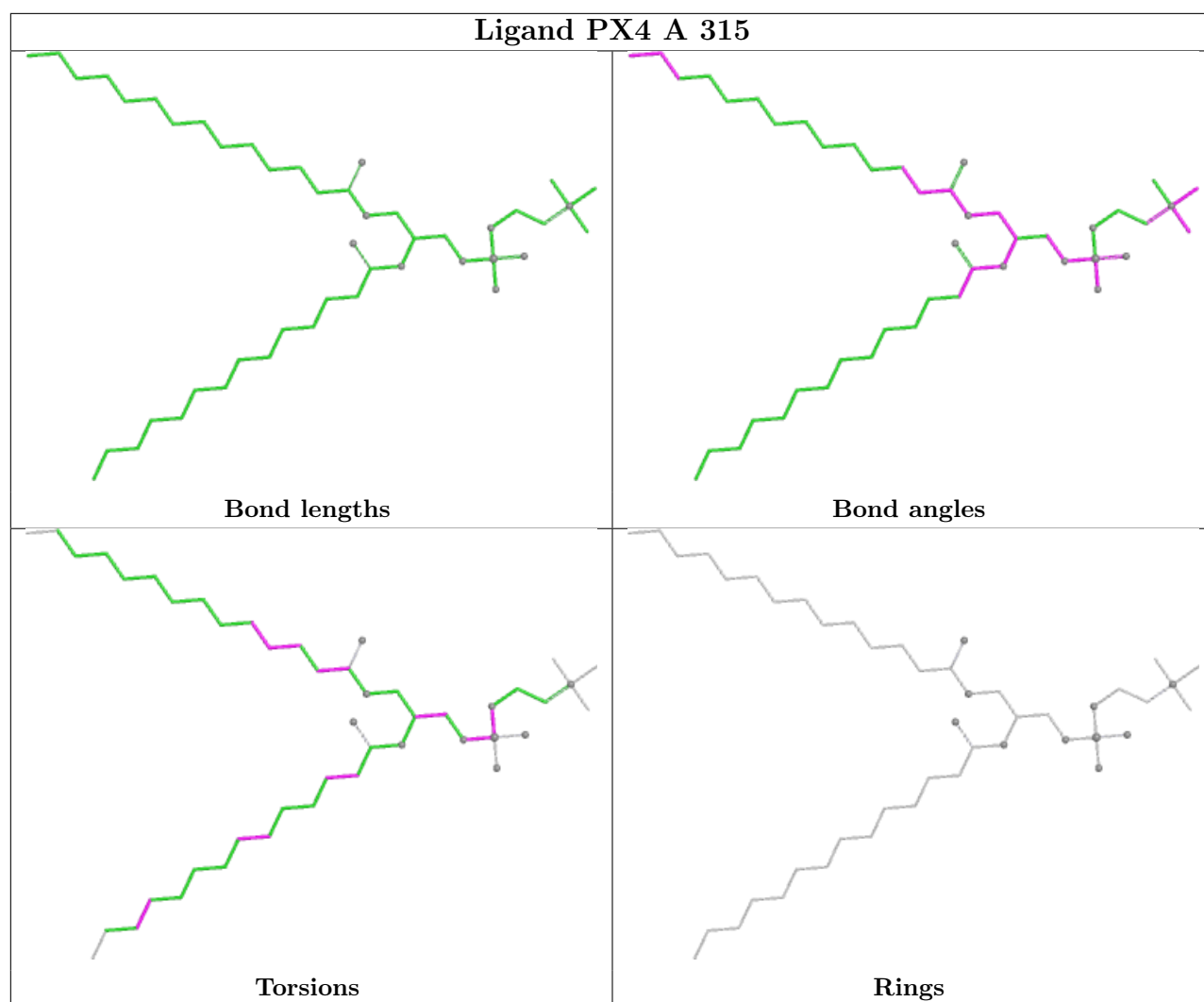


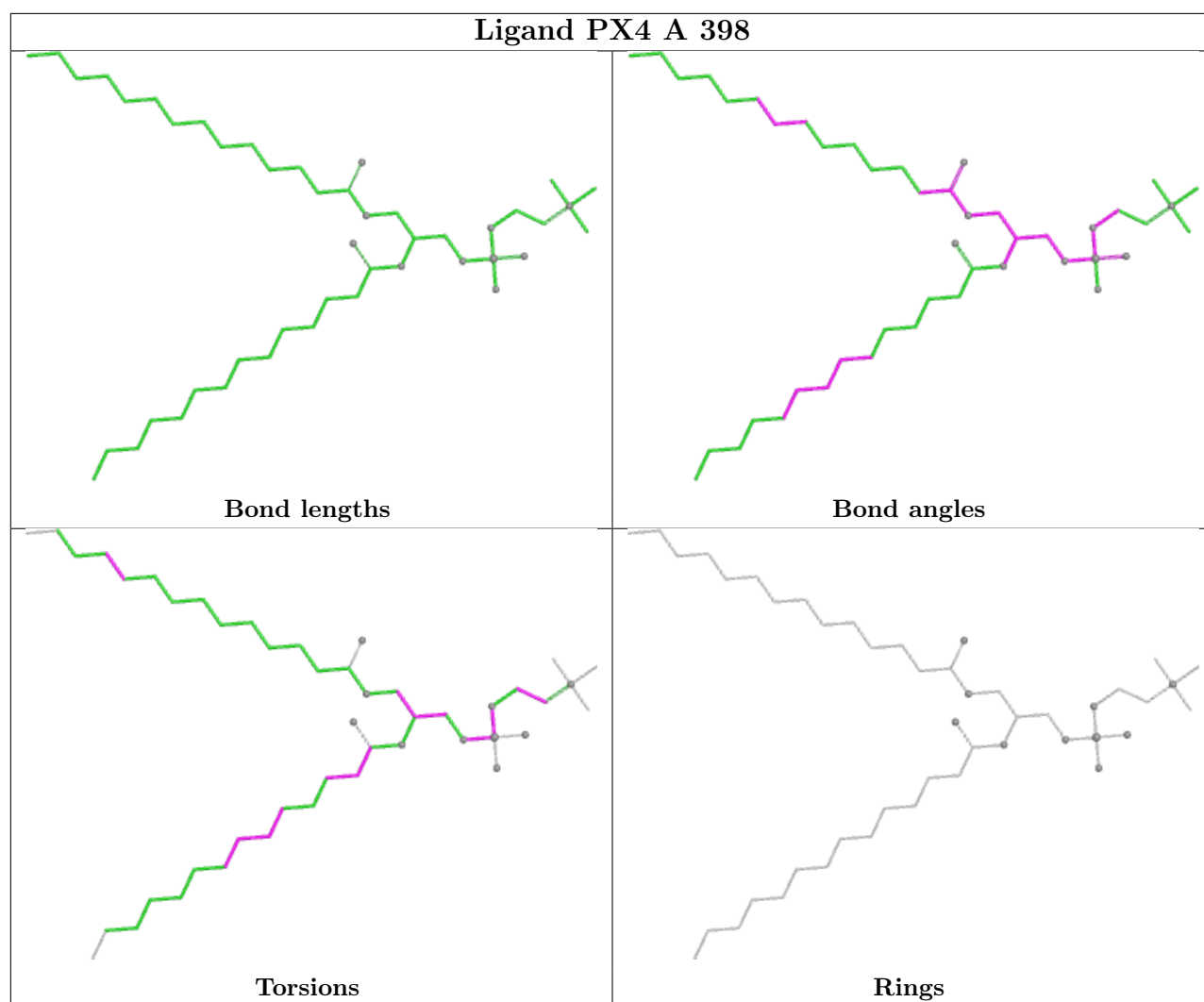
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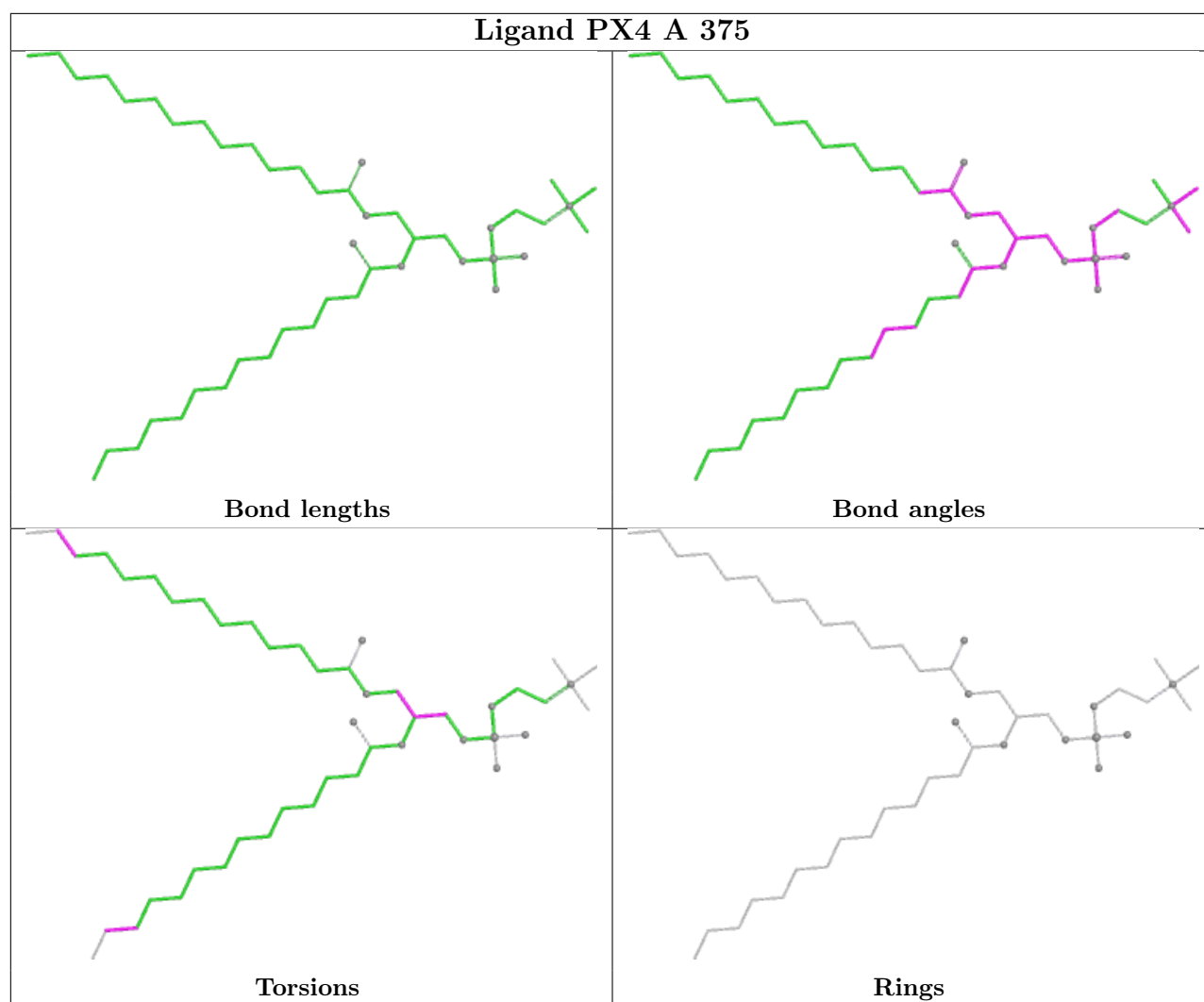


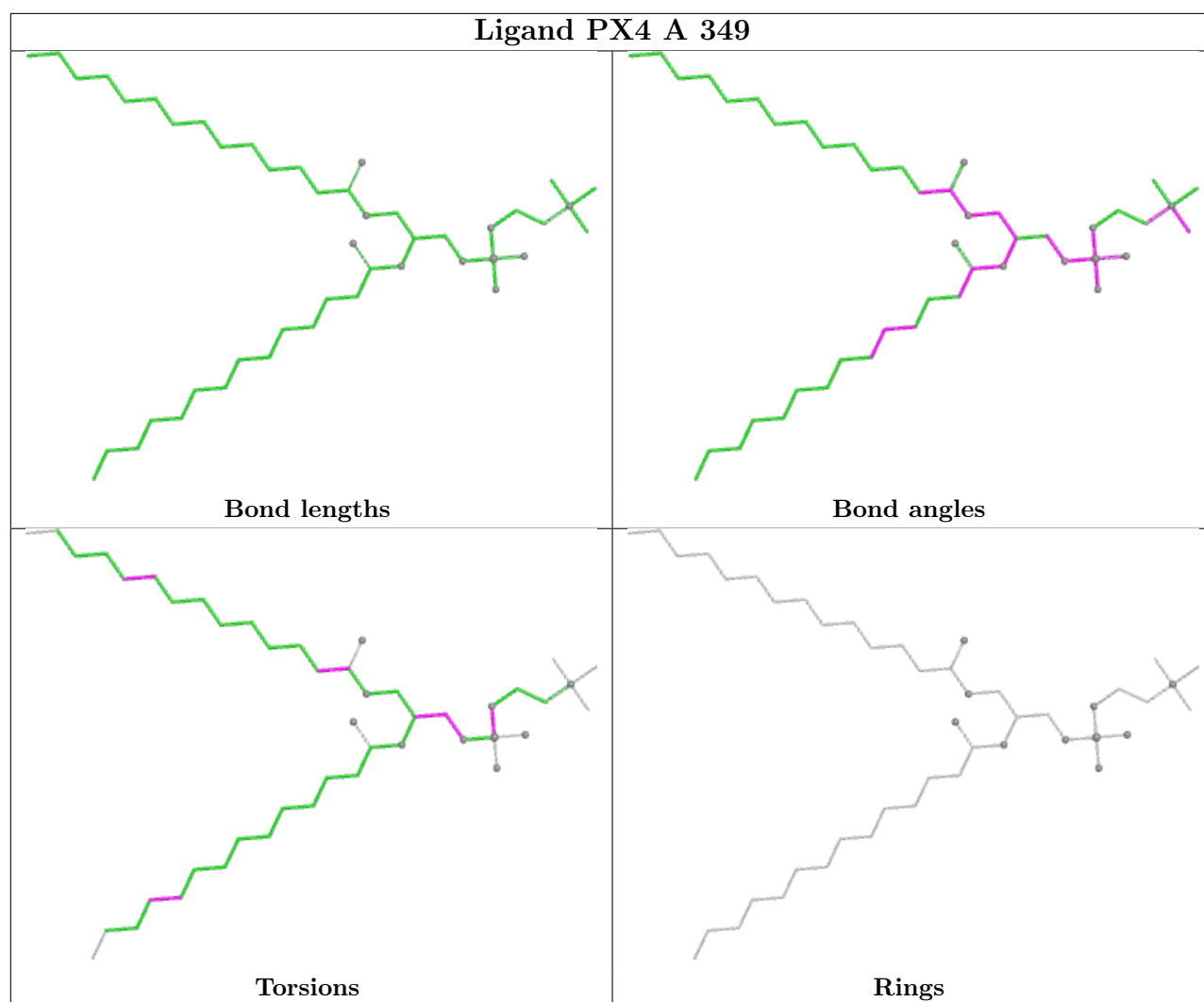


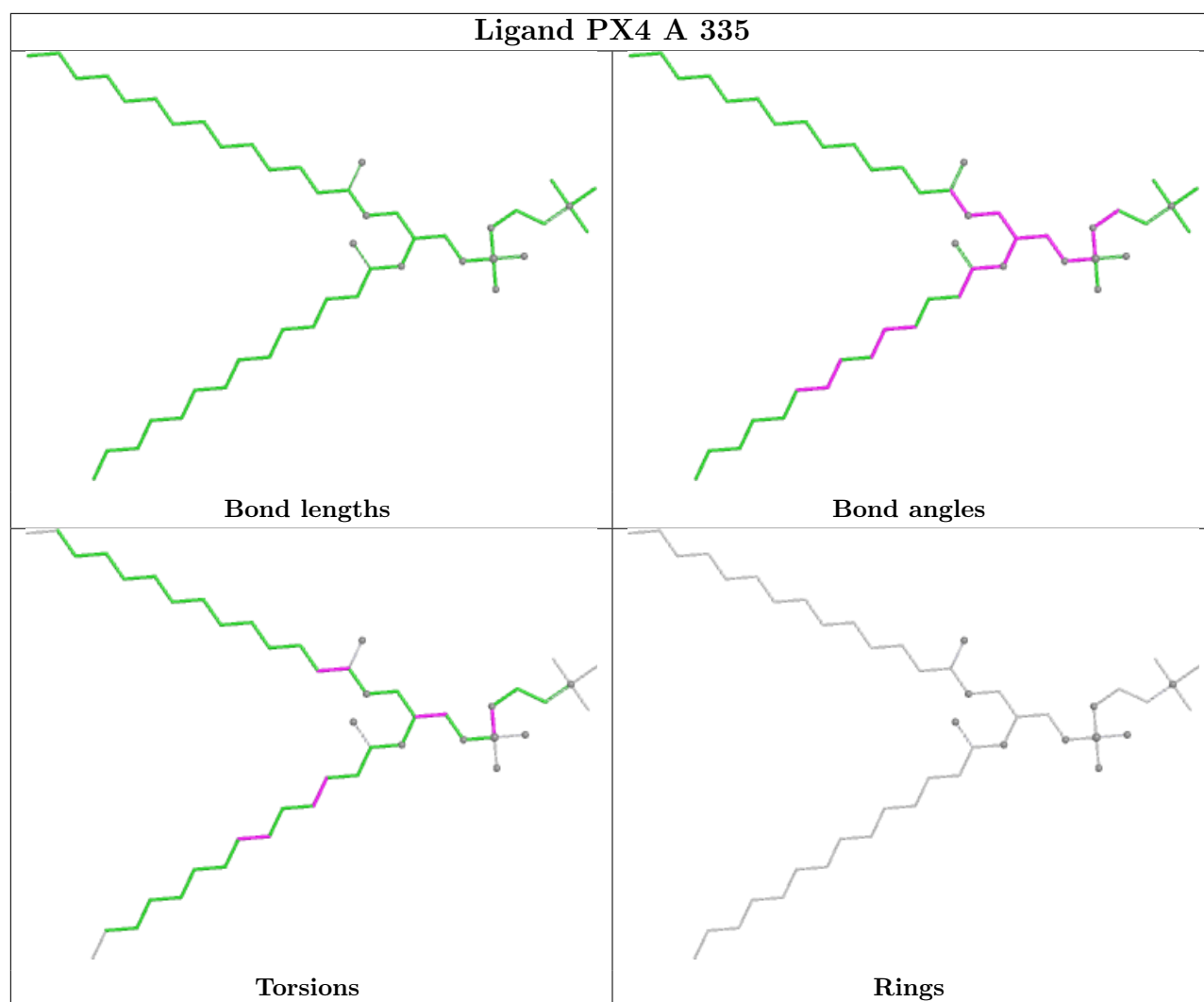


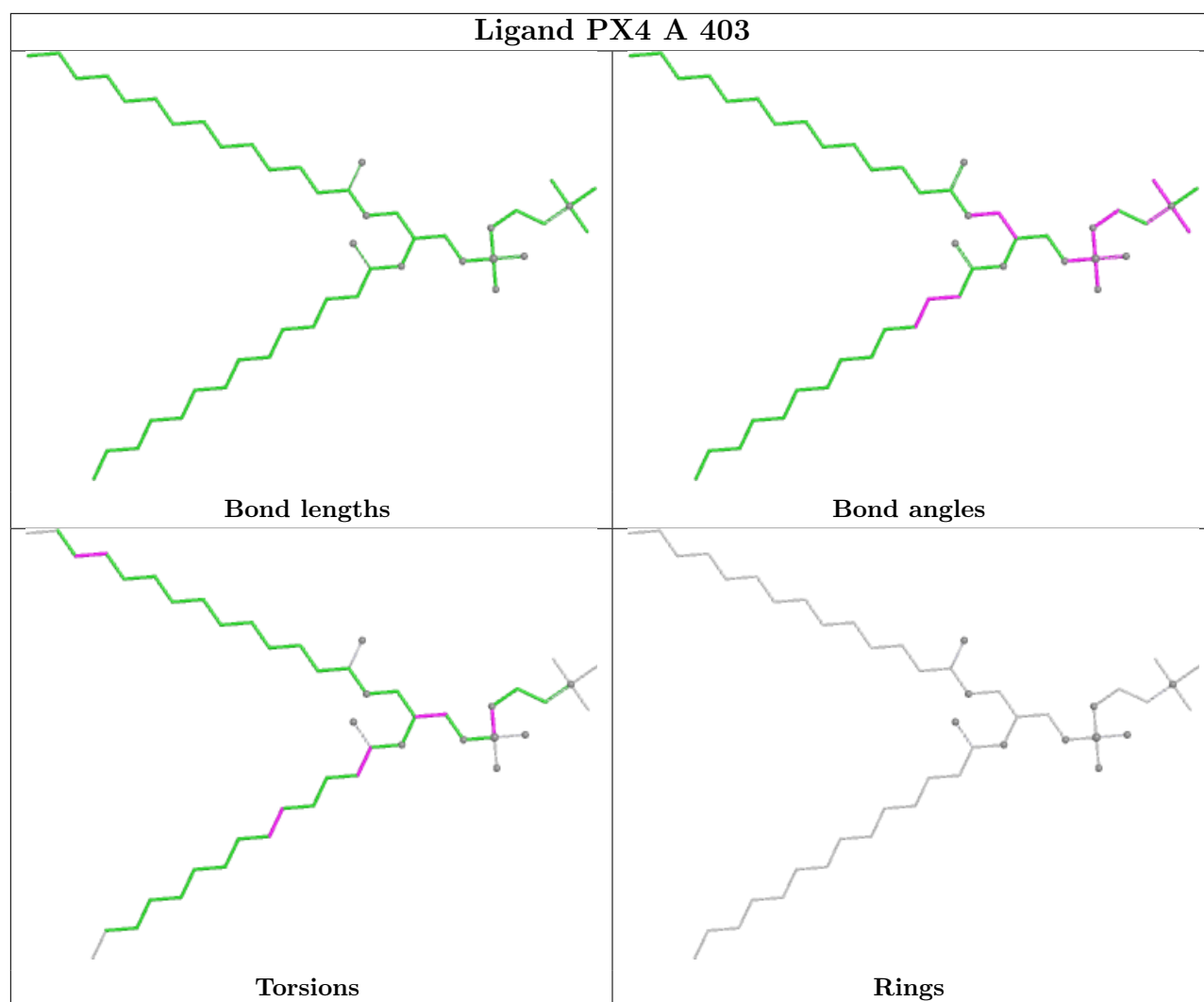


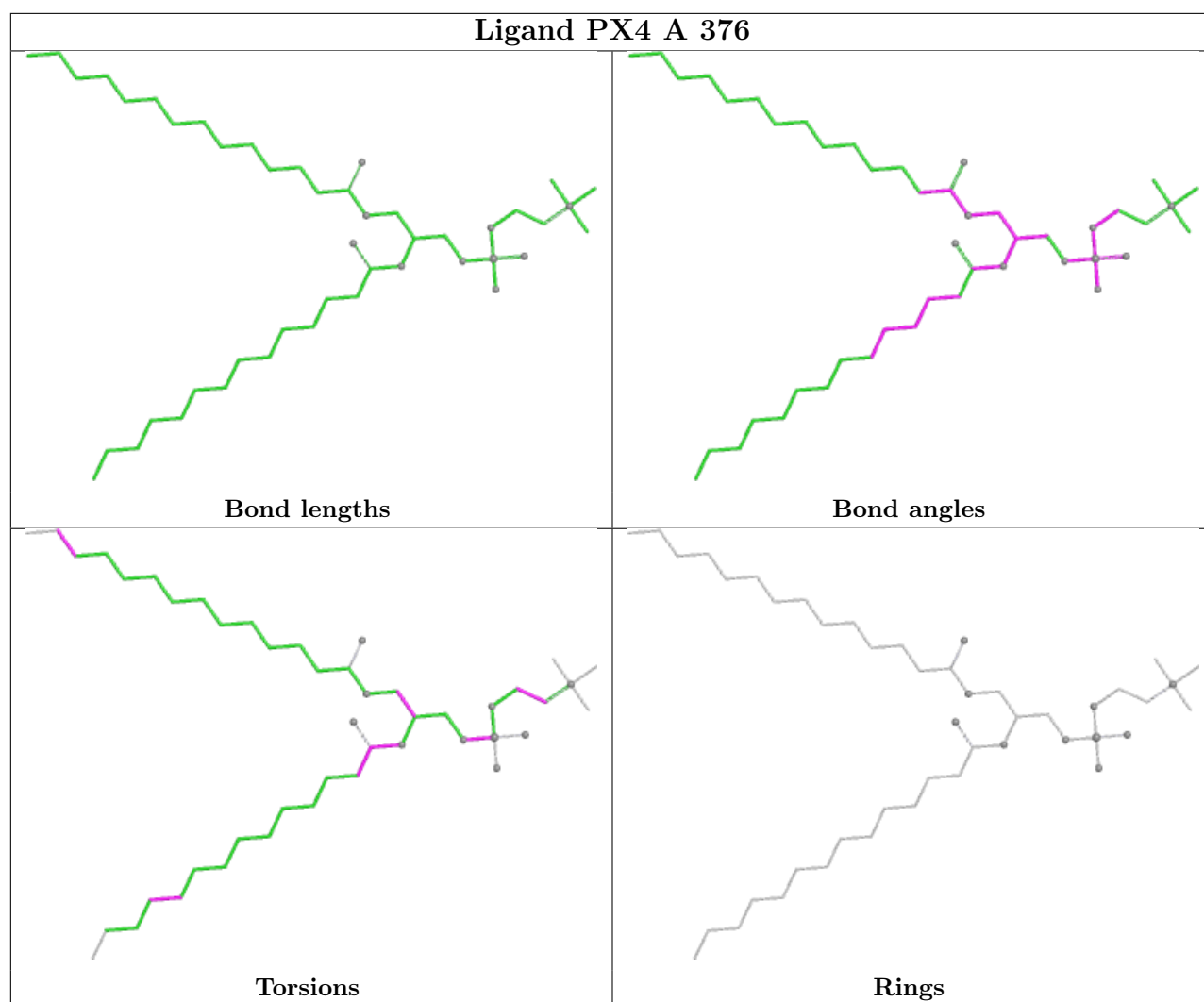


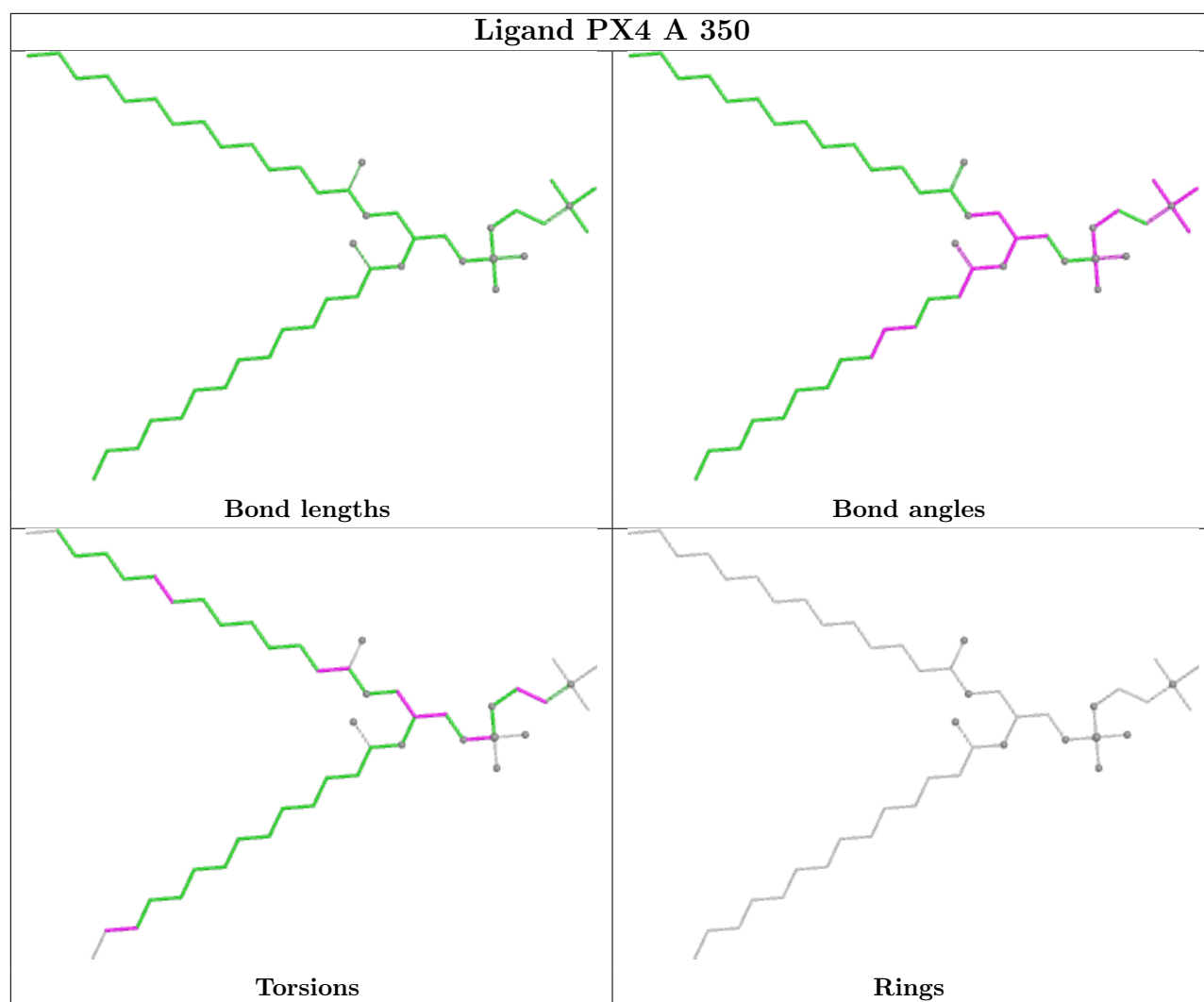


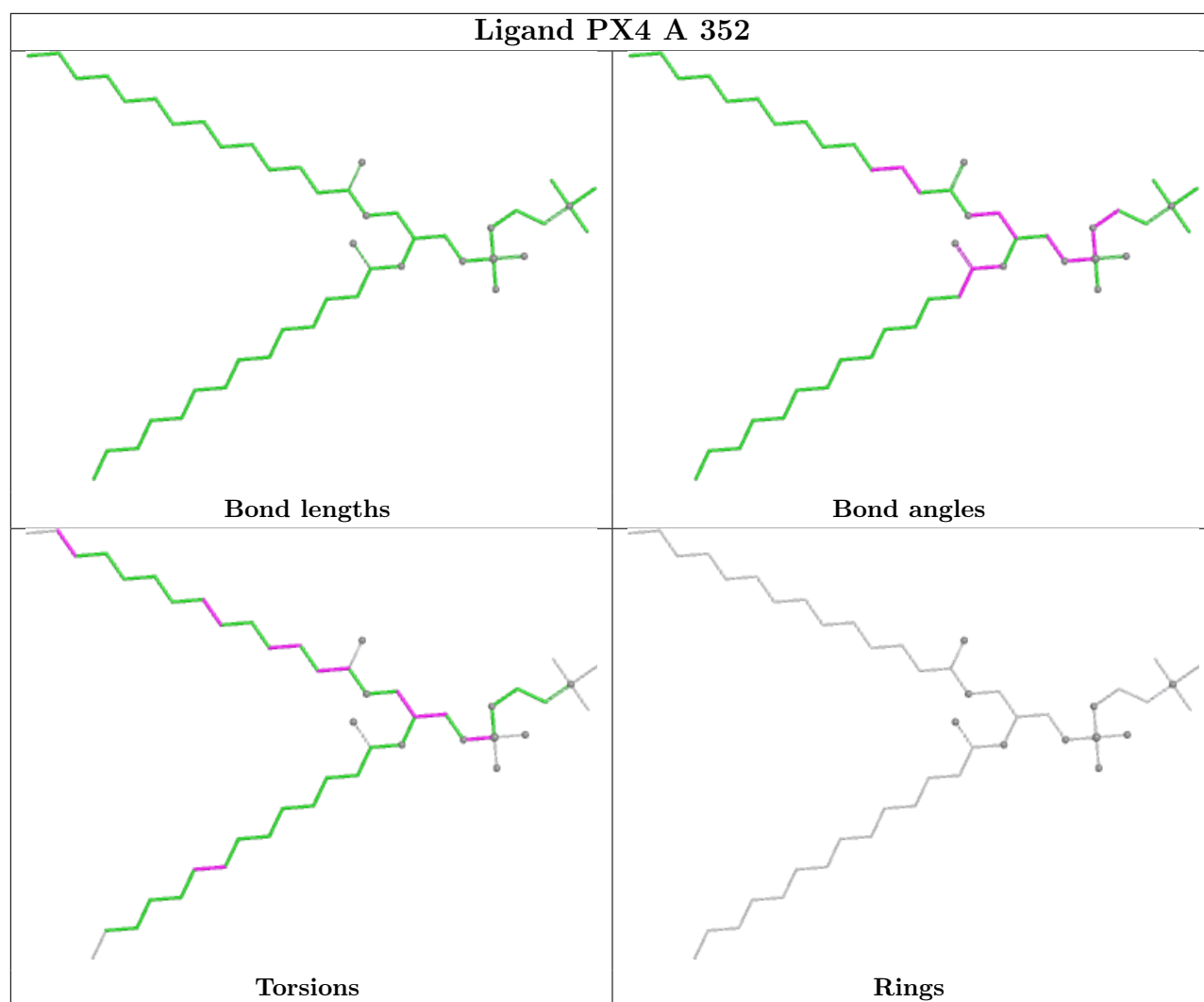


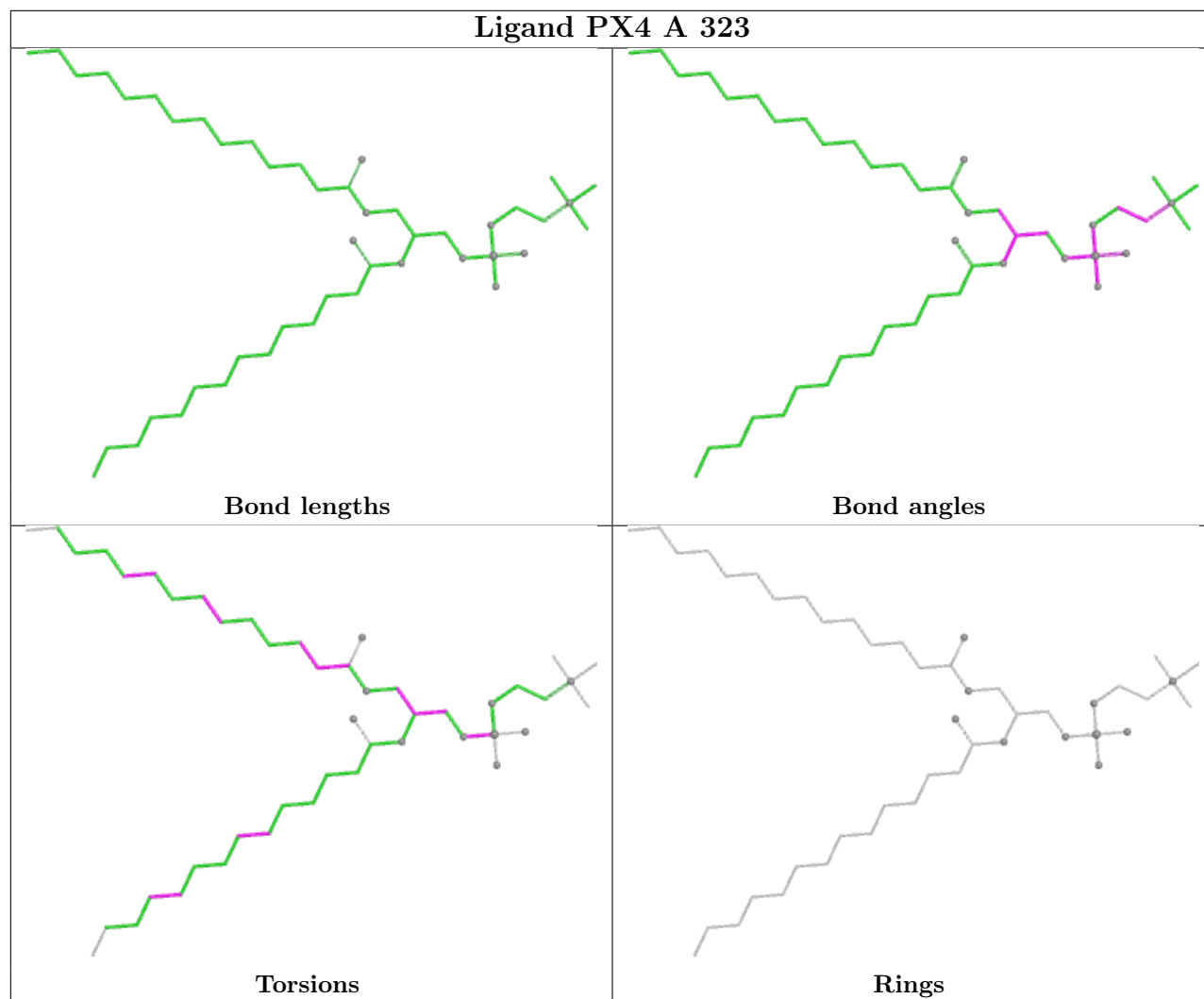


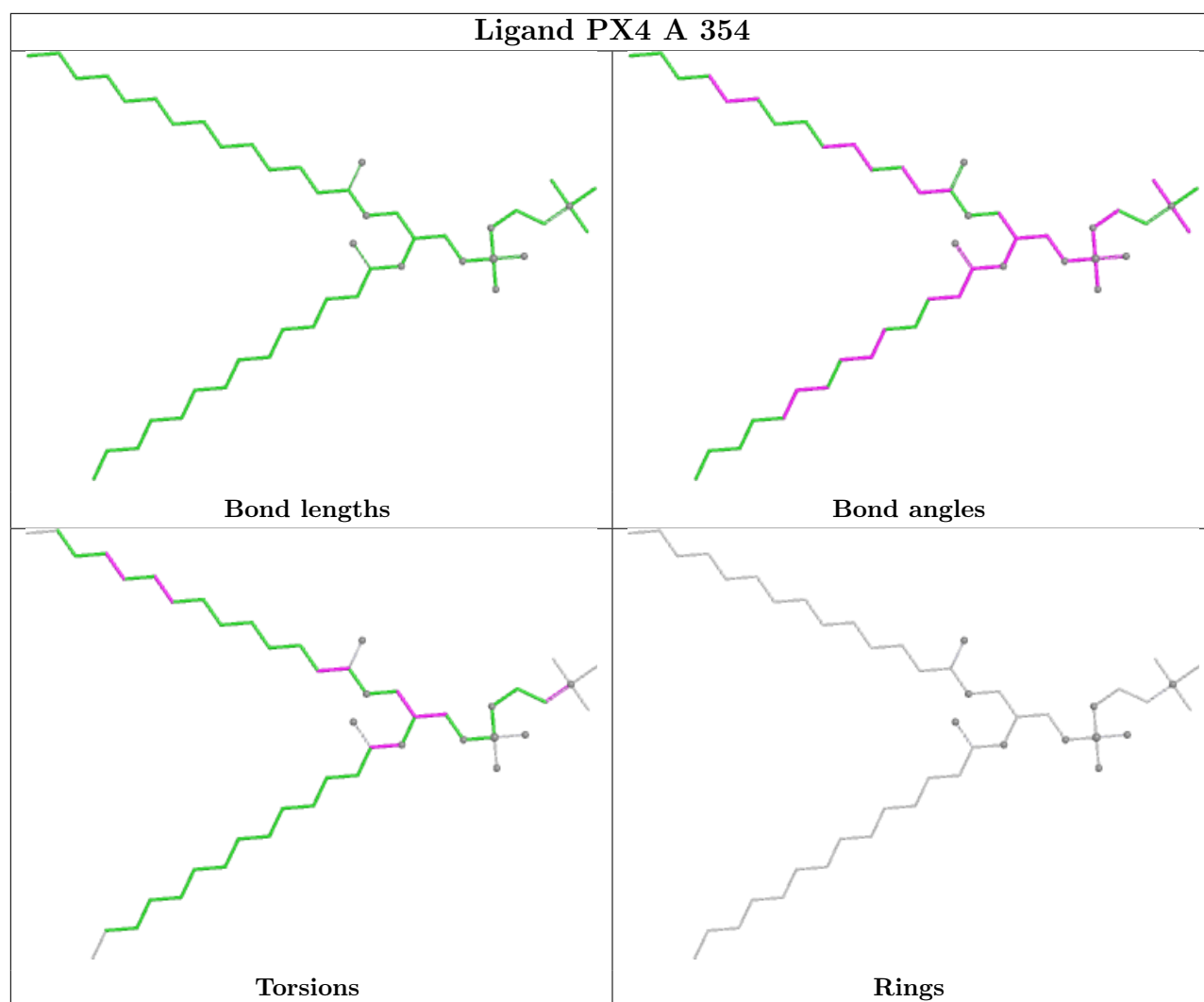


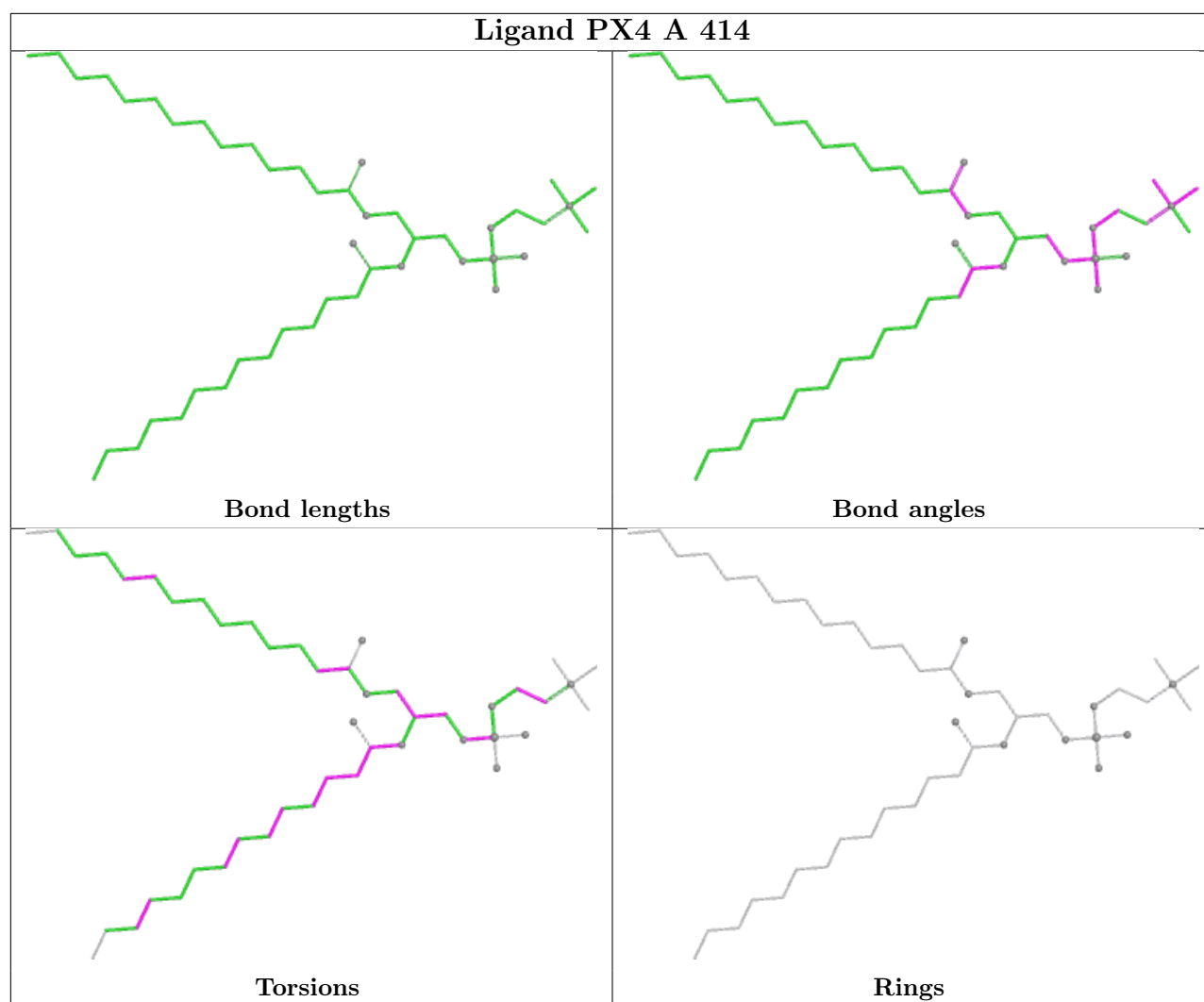


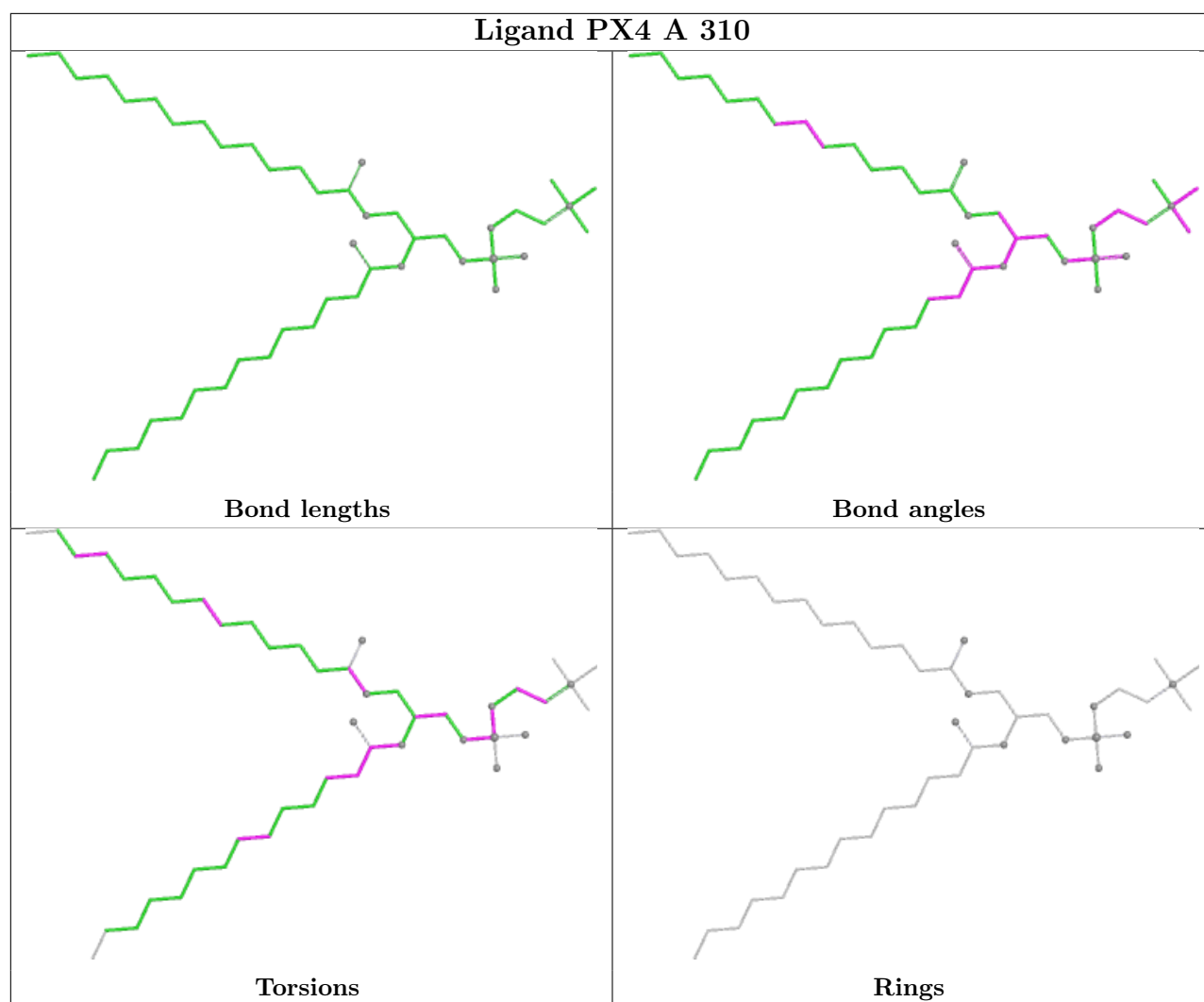


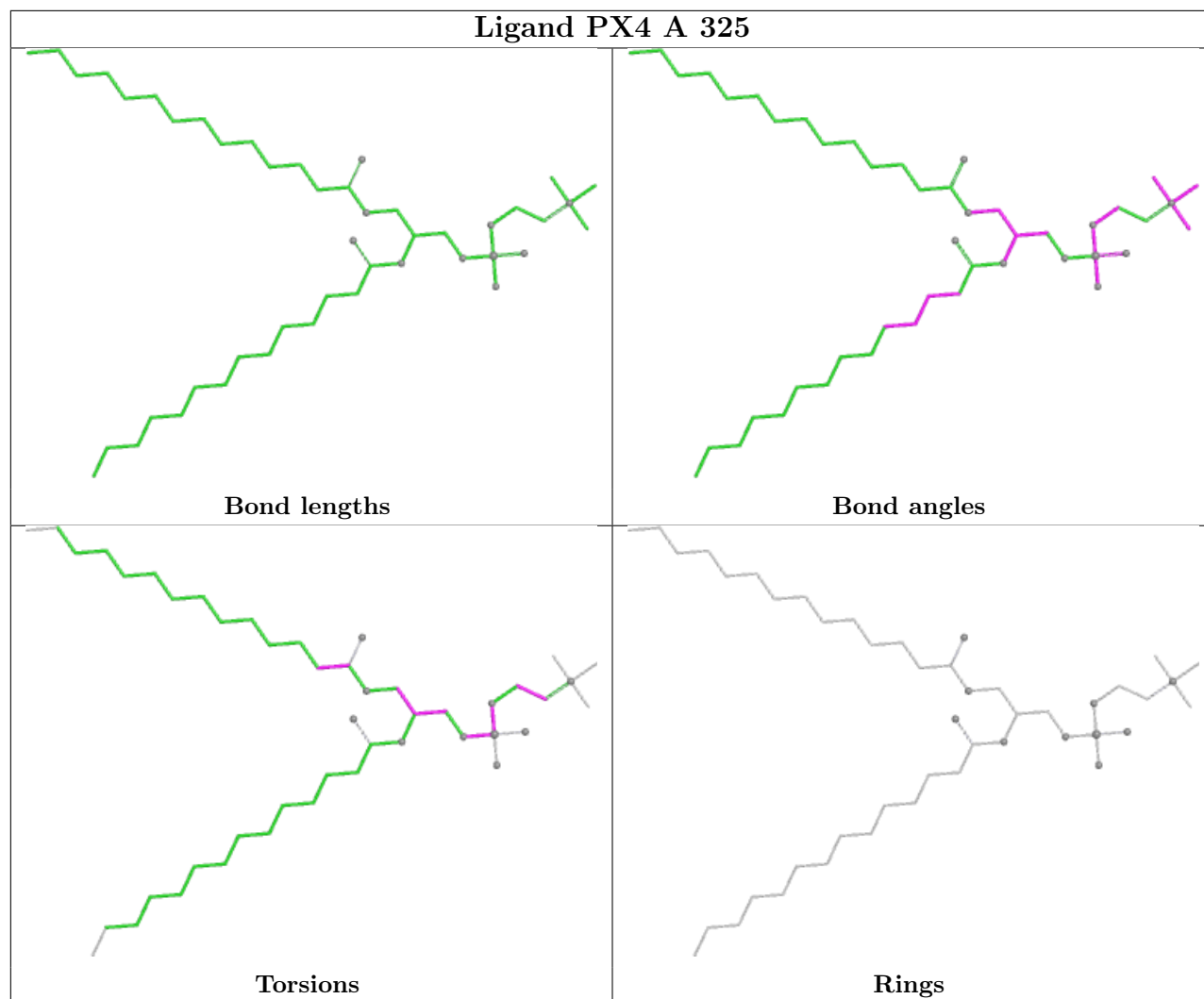


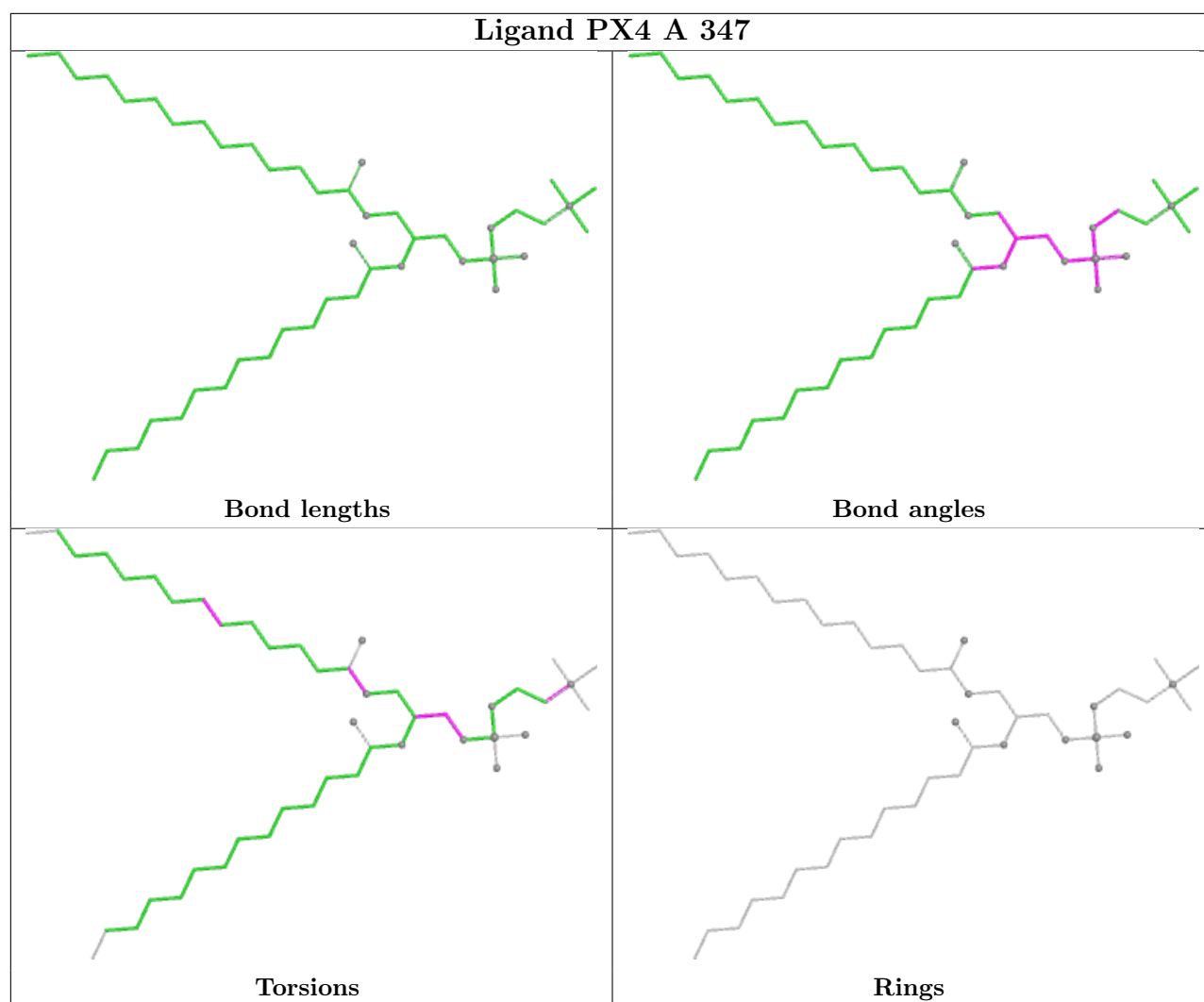




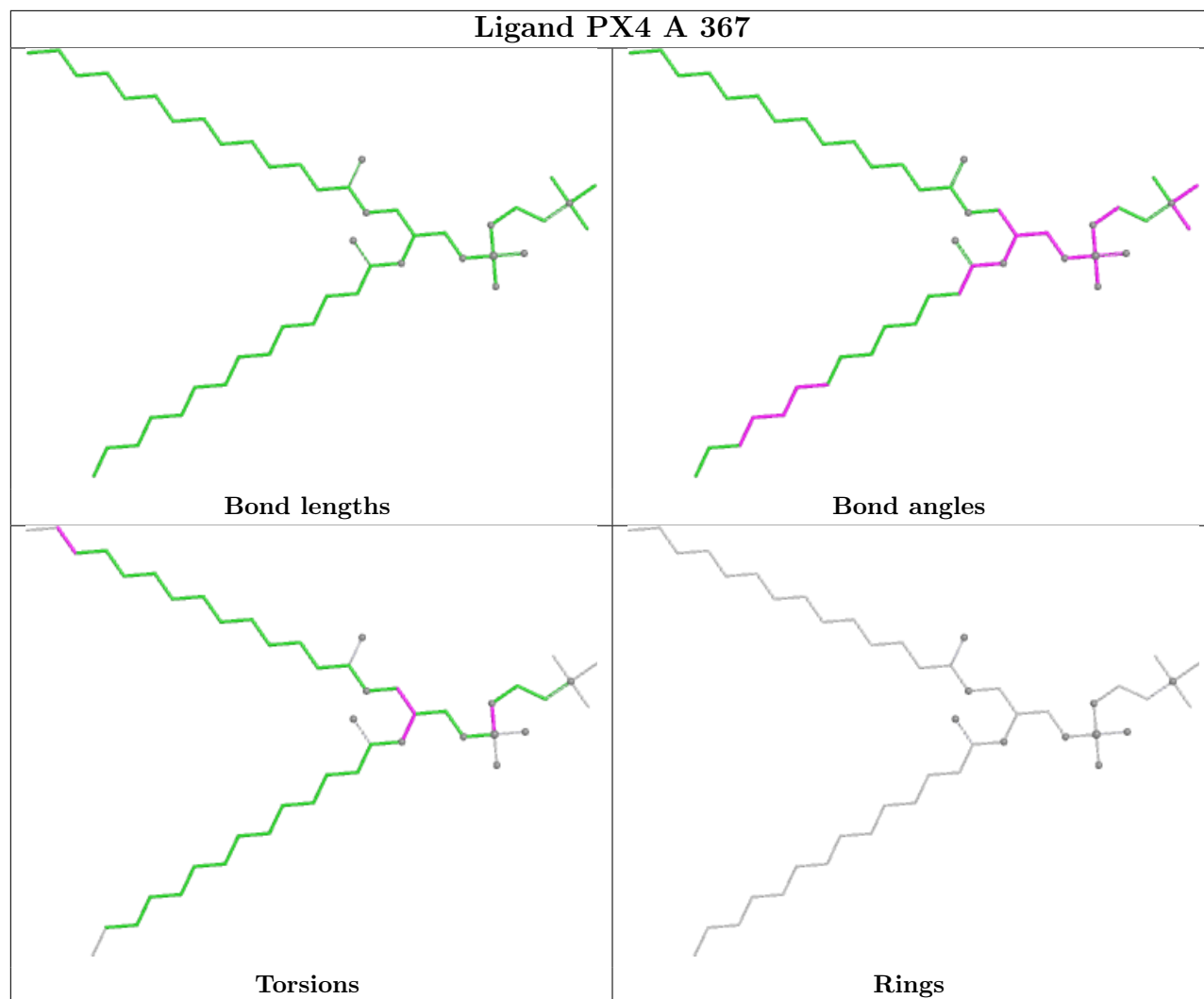


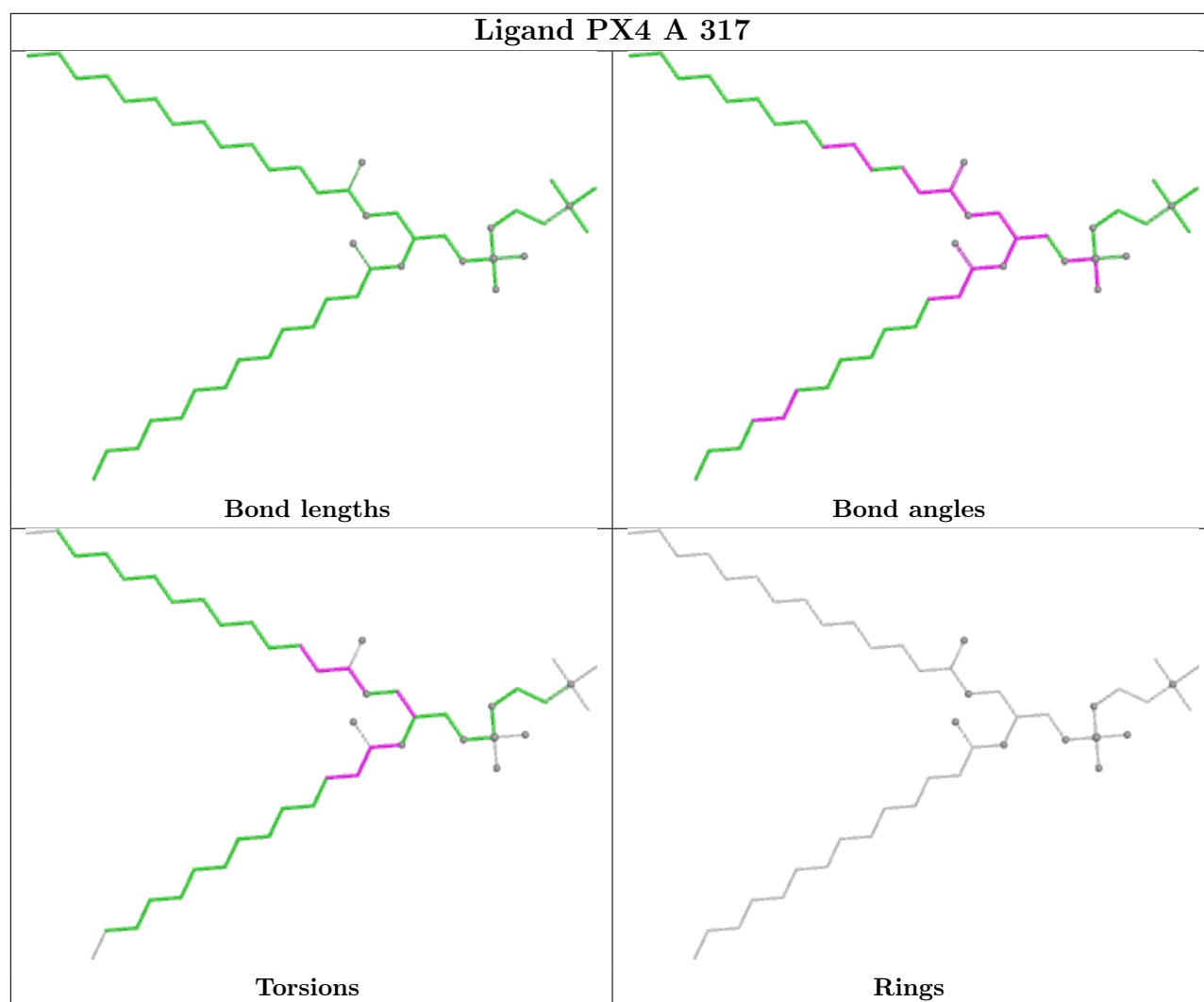




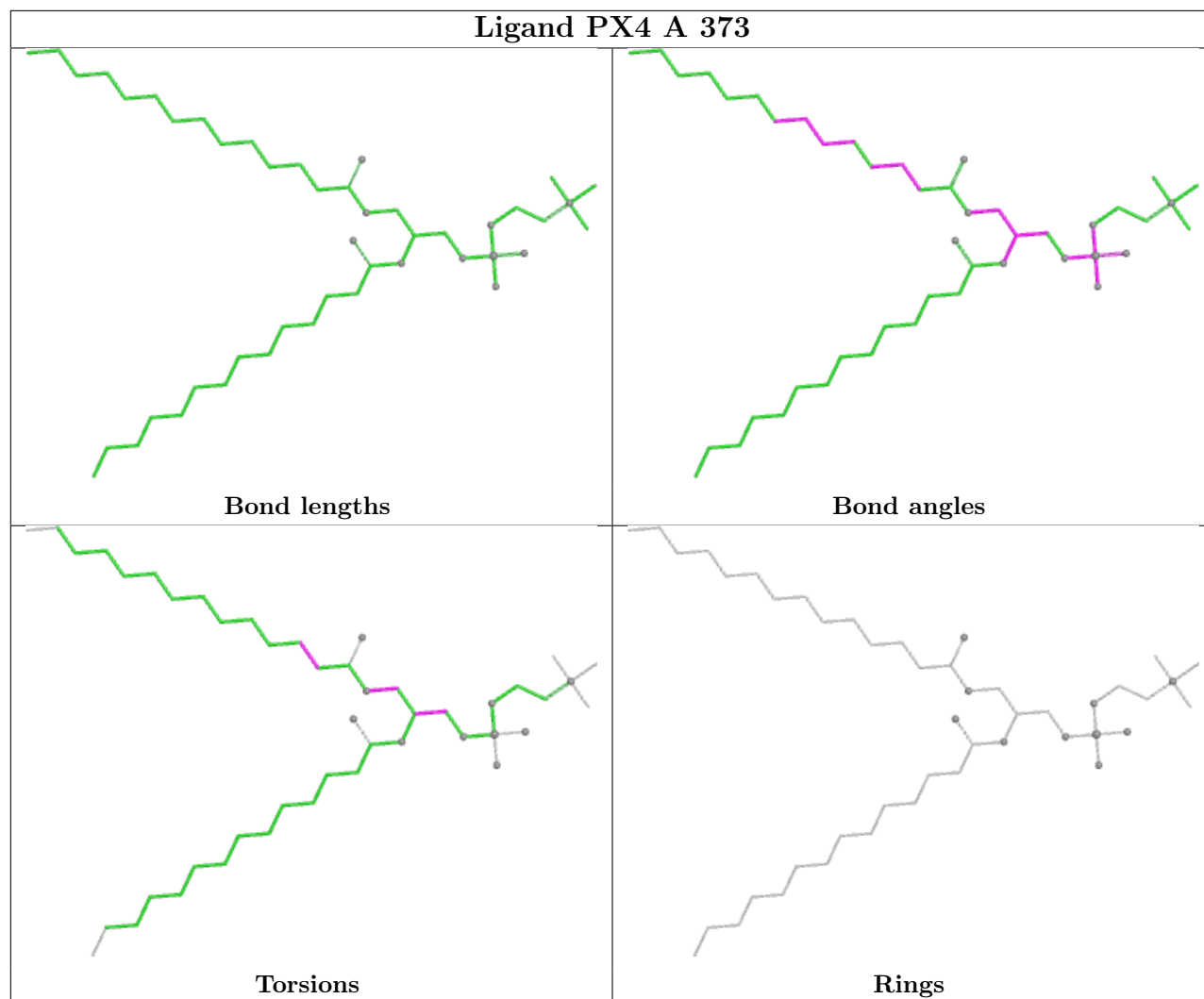


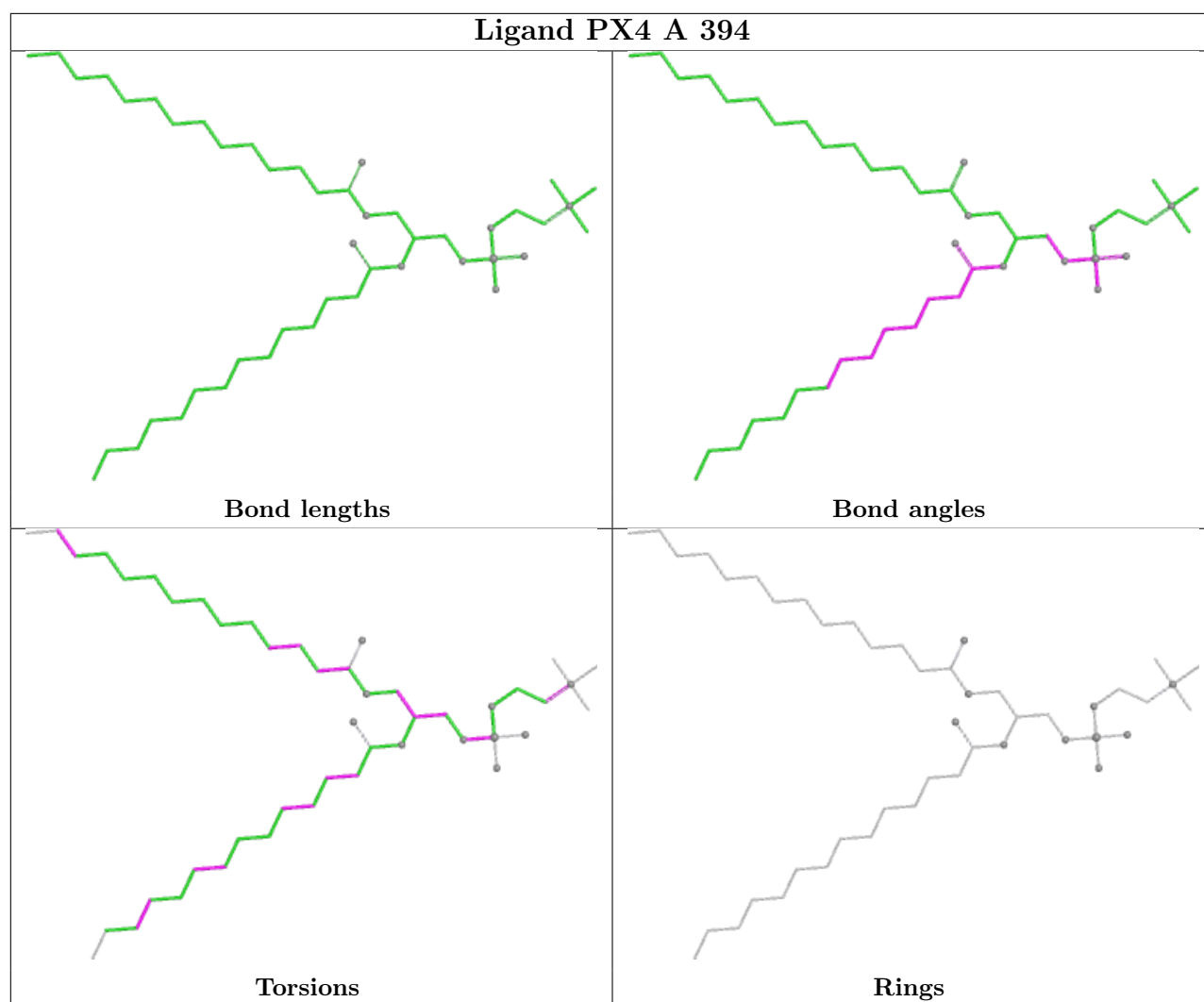
Ligand PX4 A 367

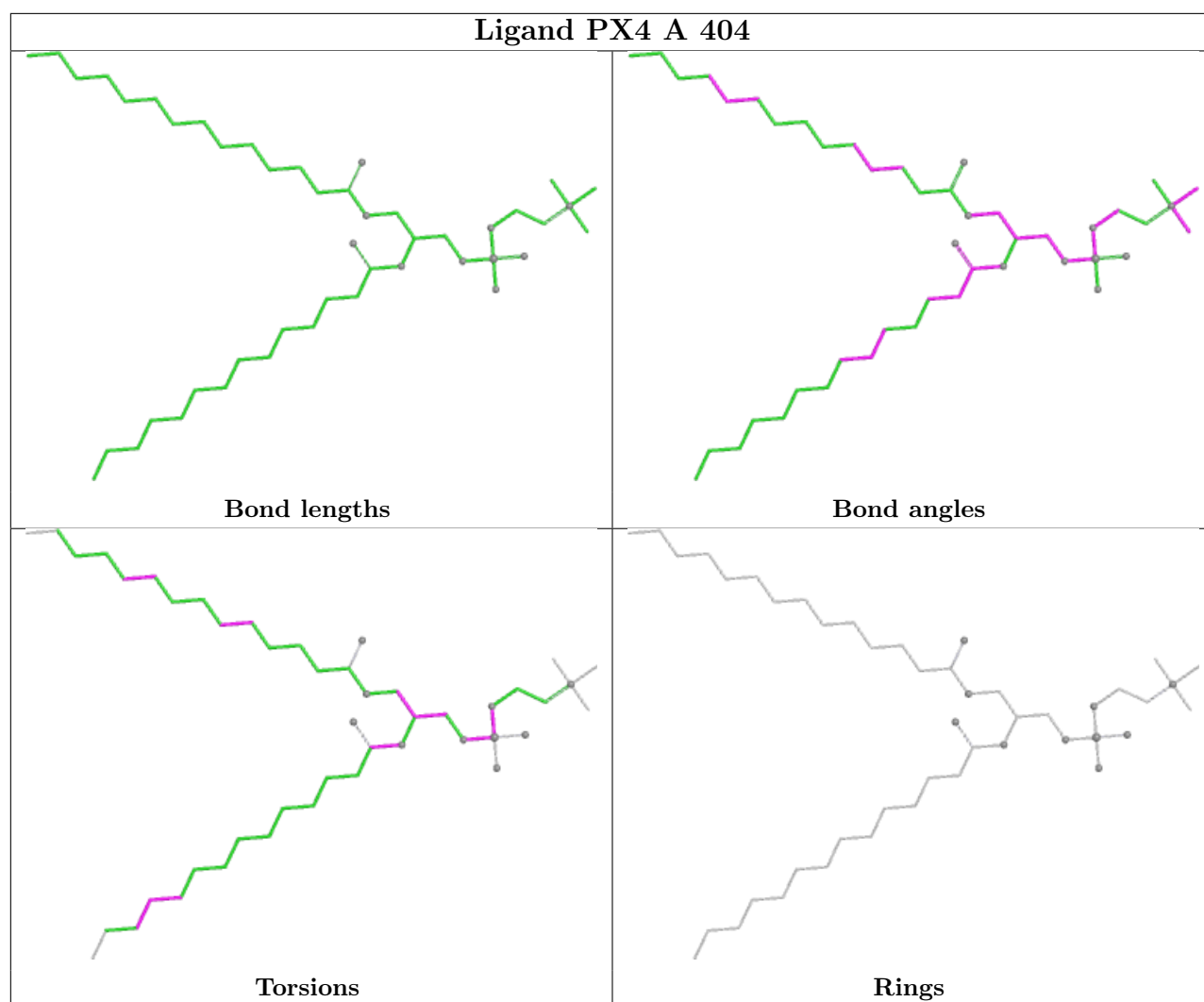


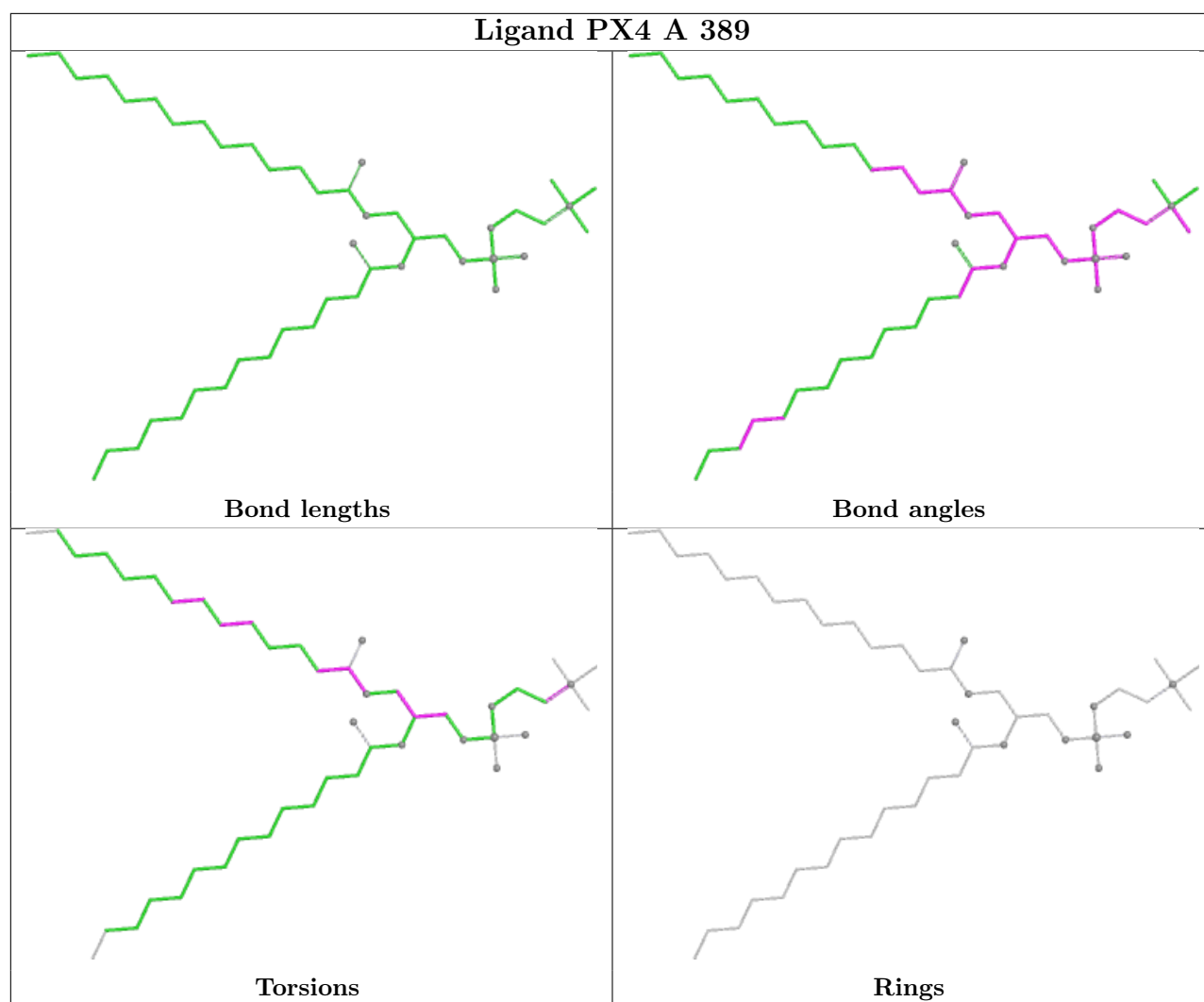


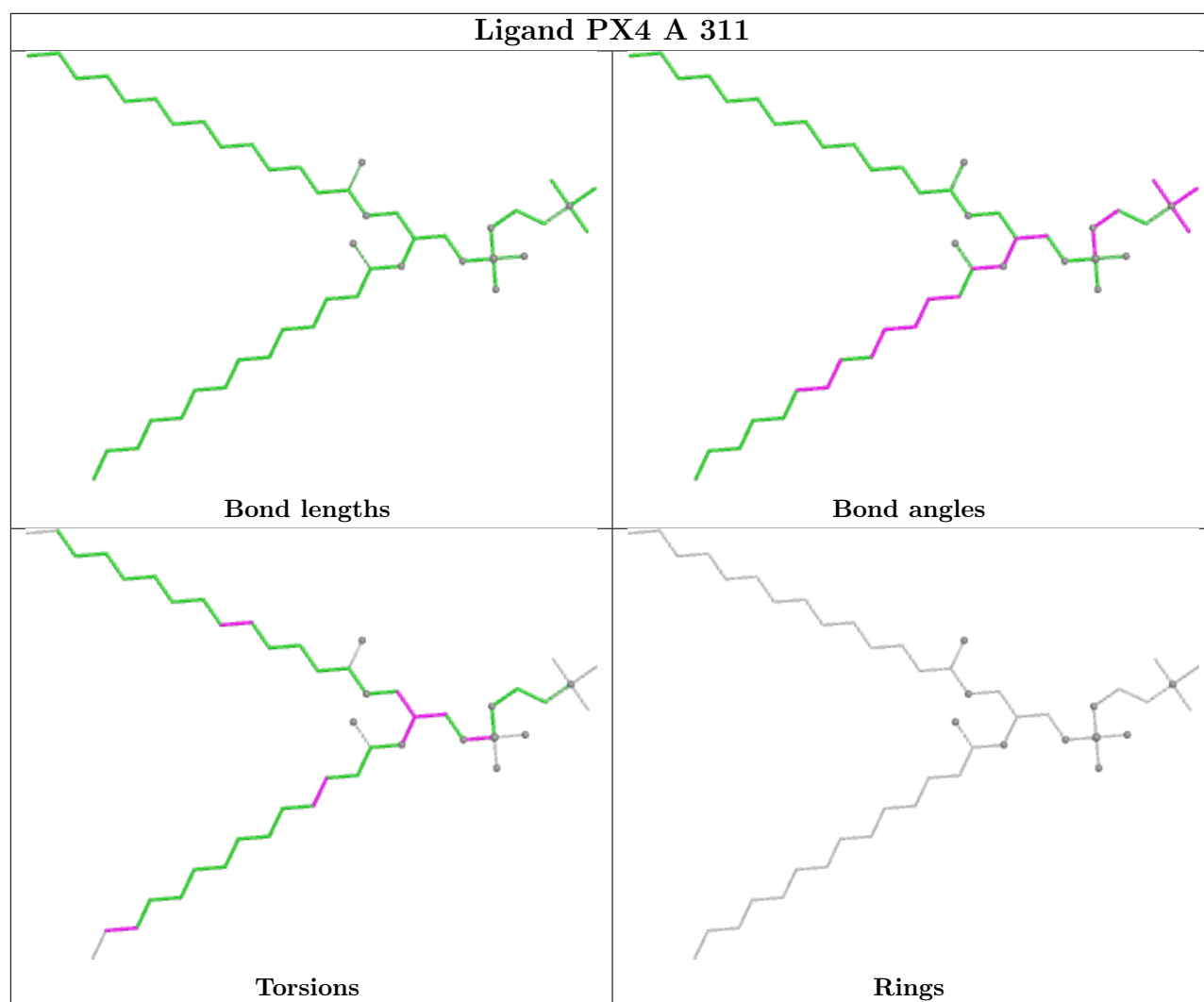
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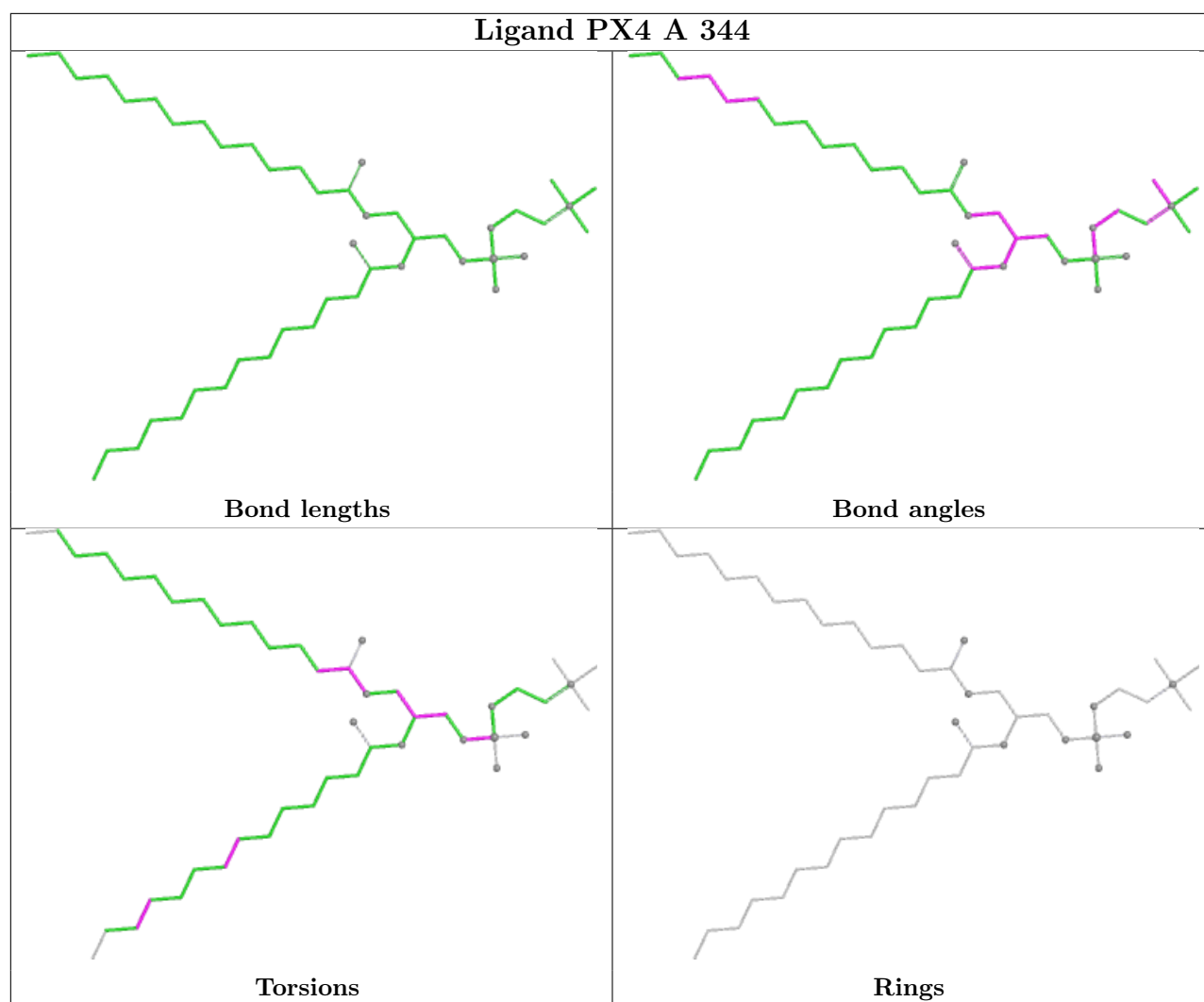


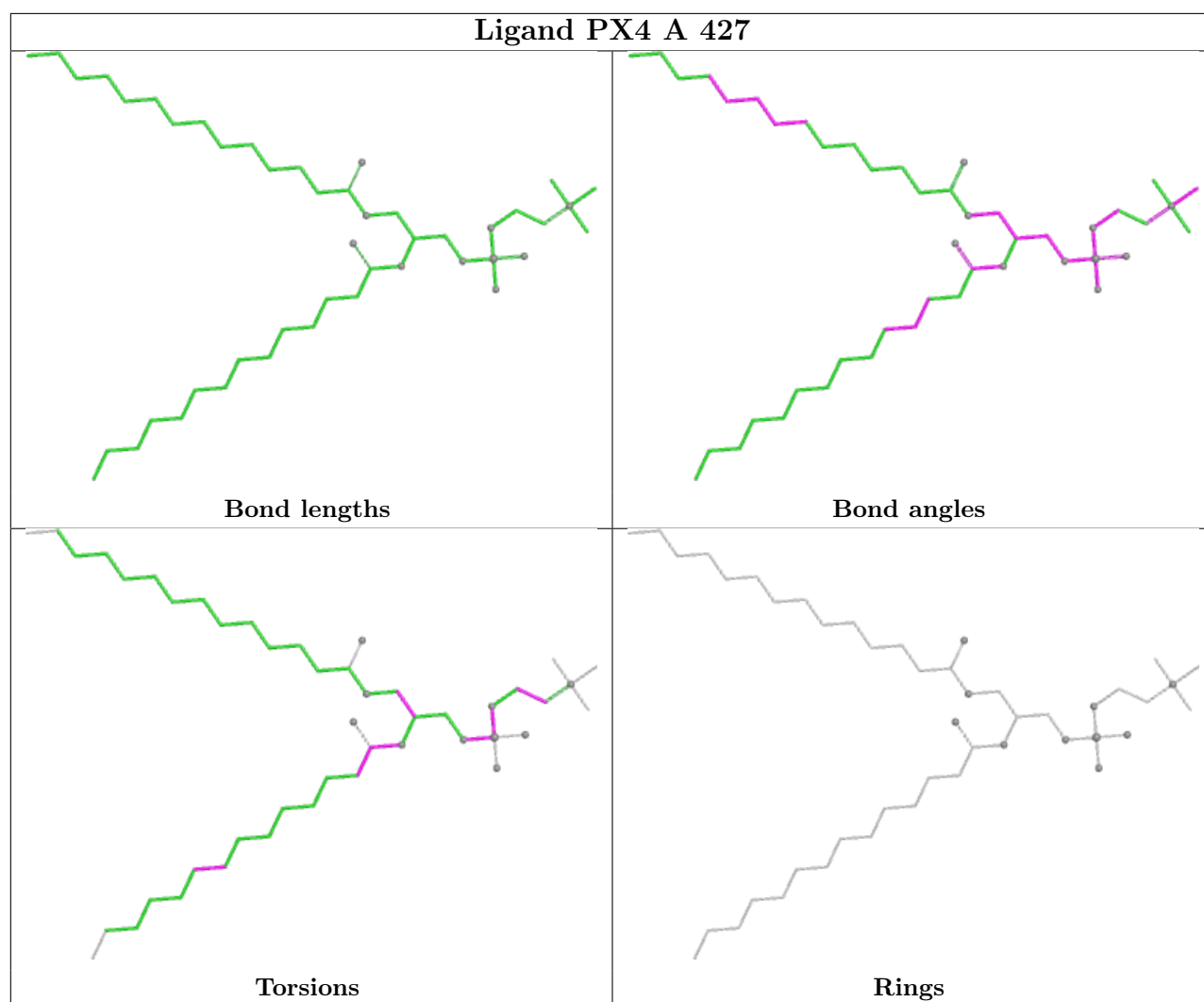


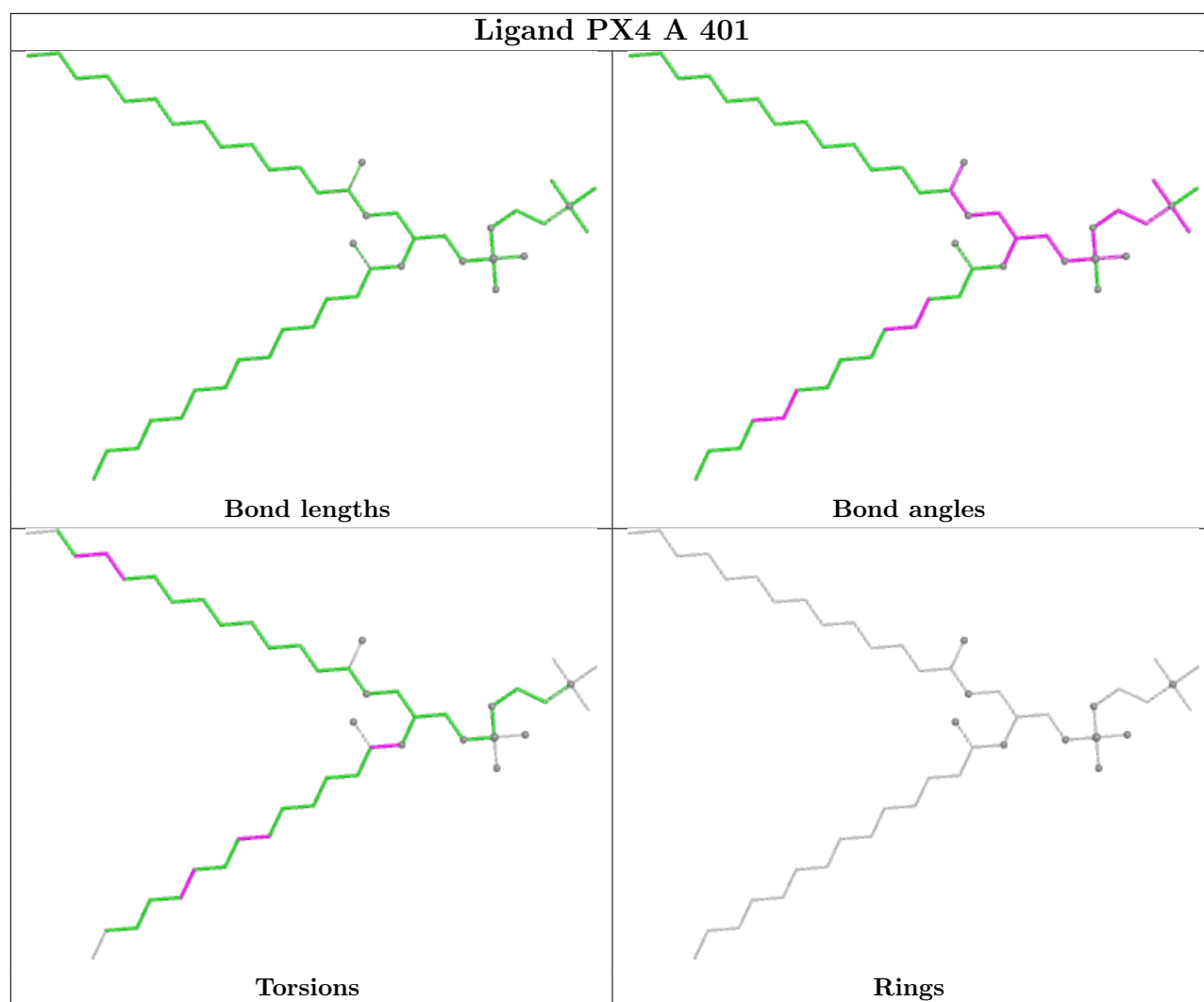


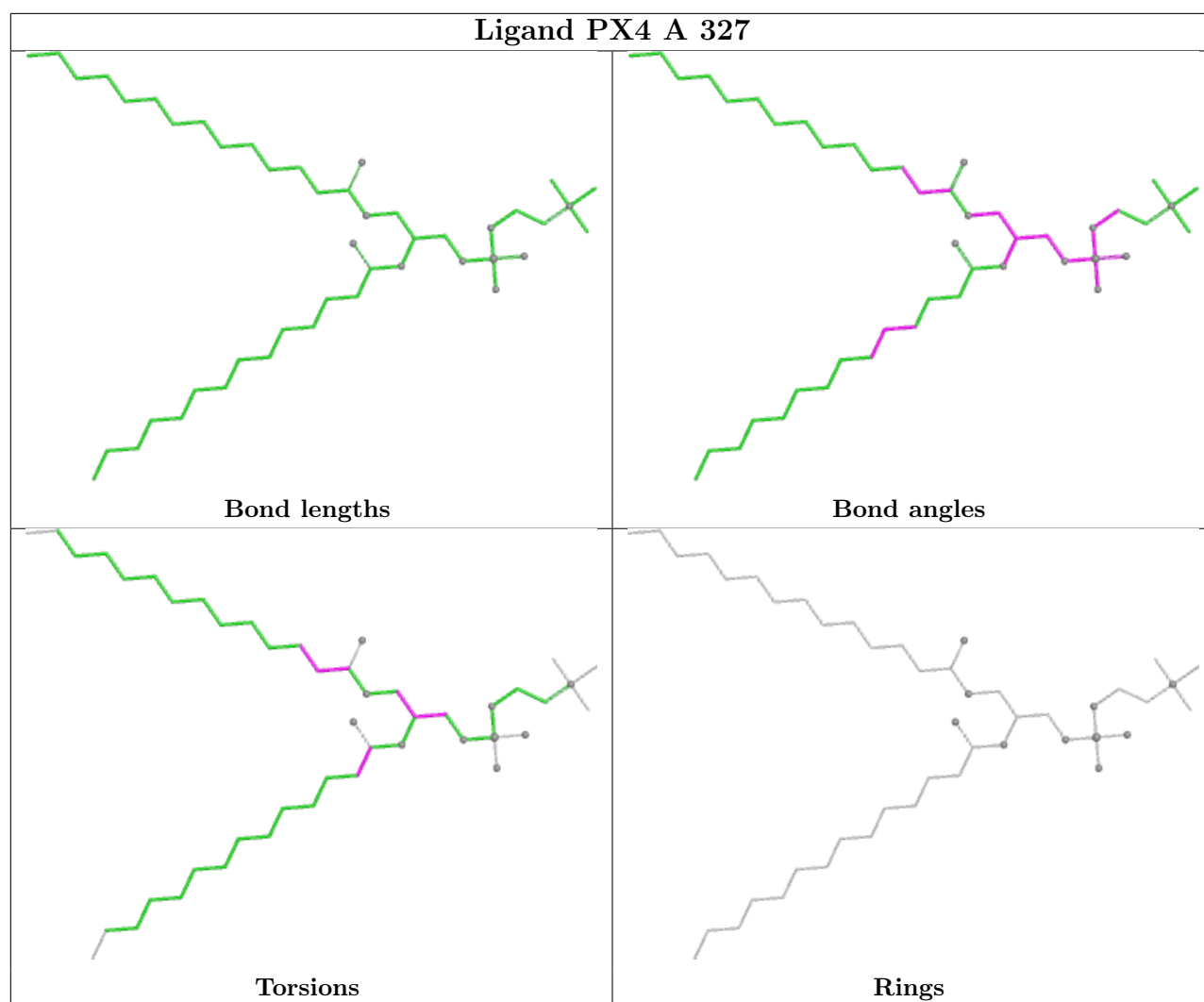


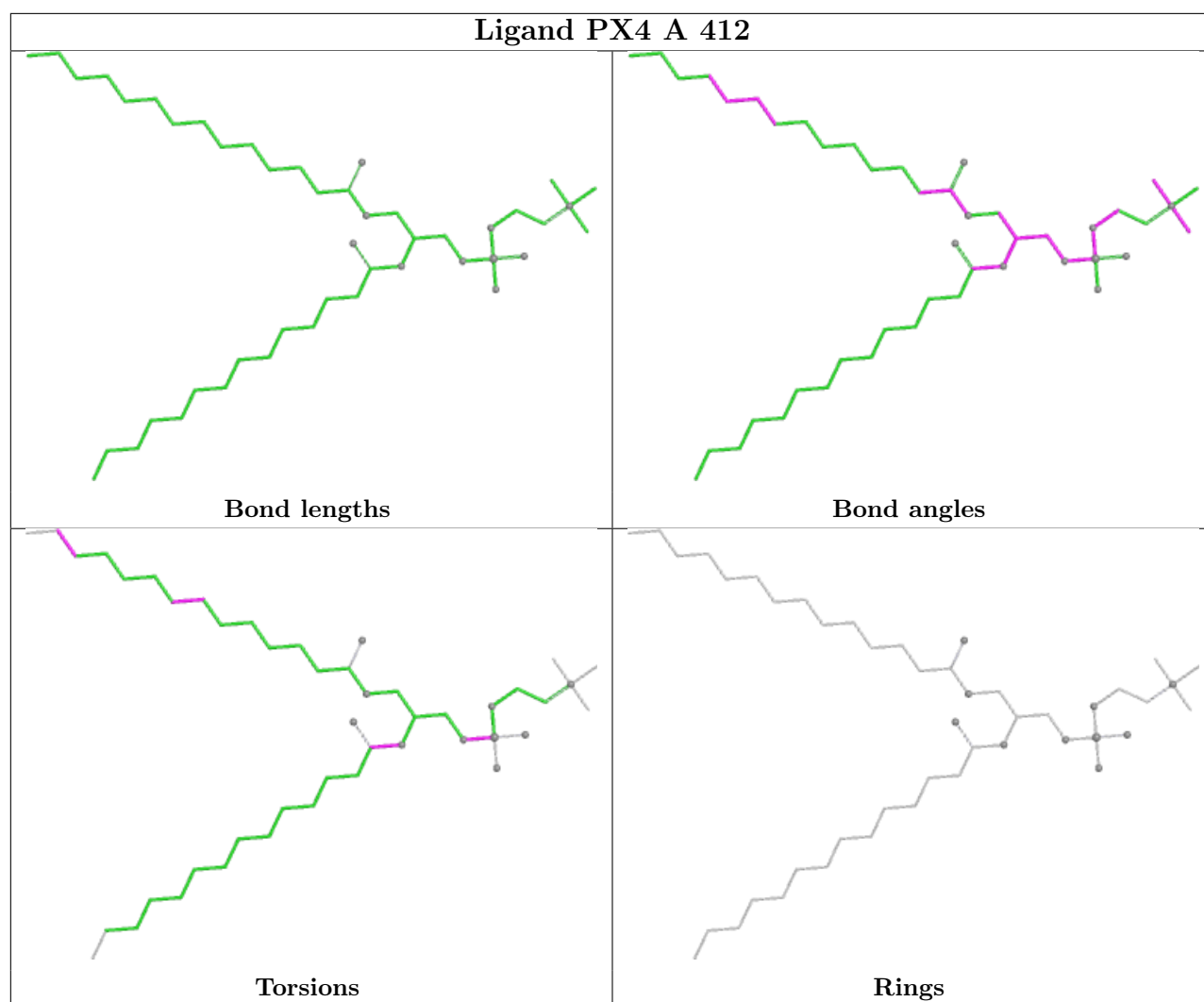


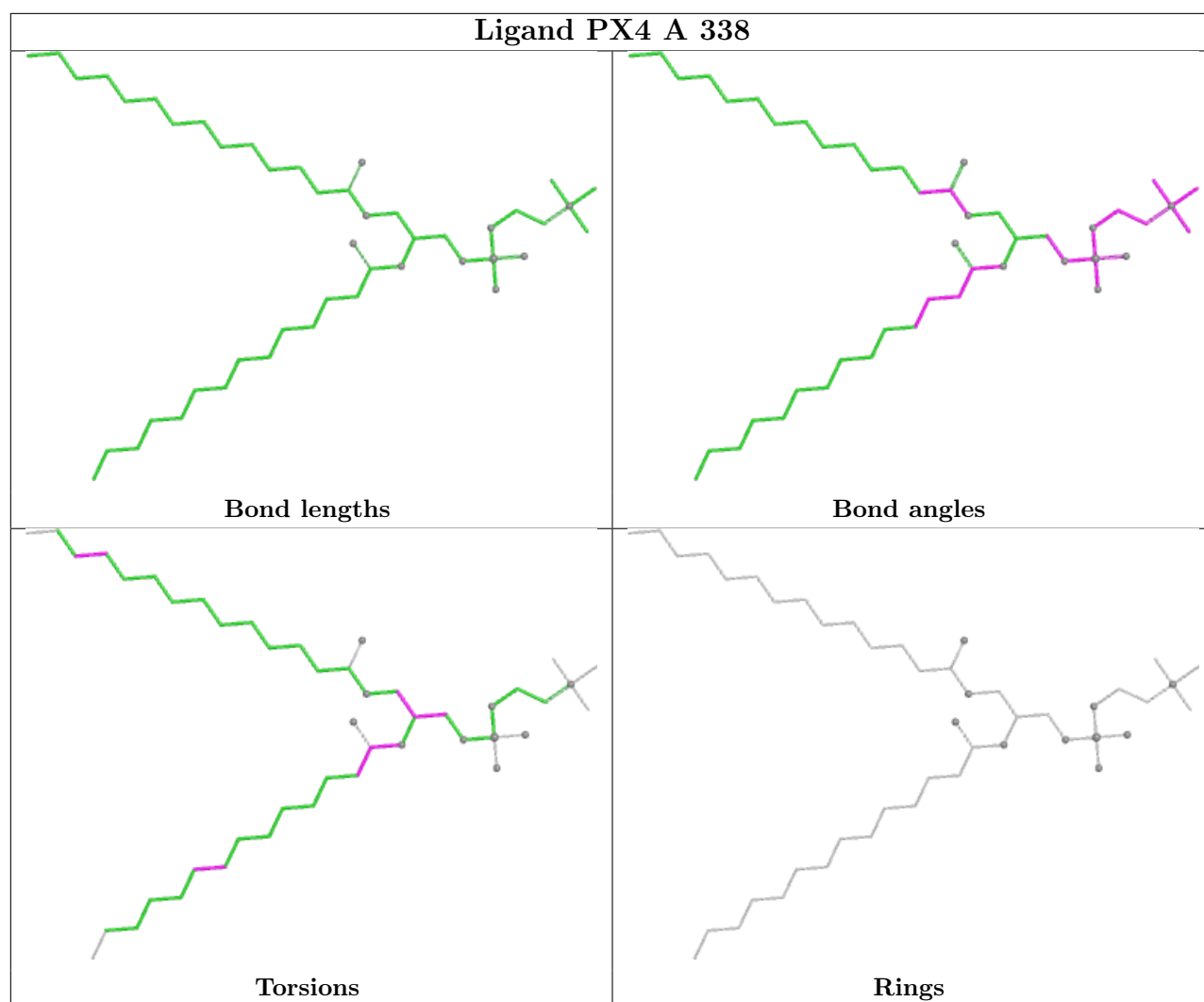


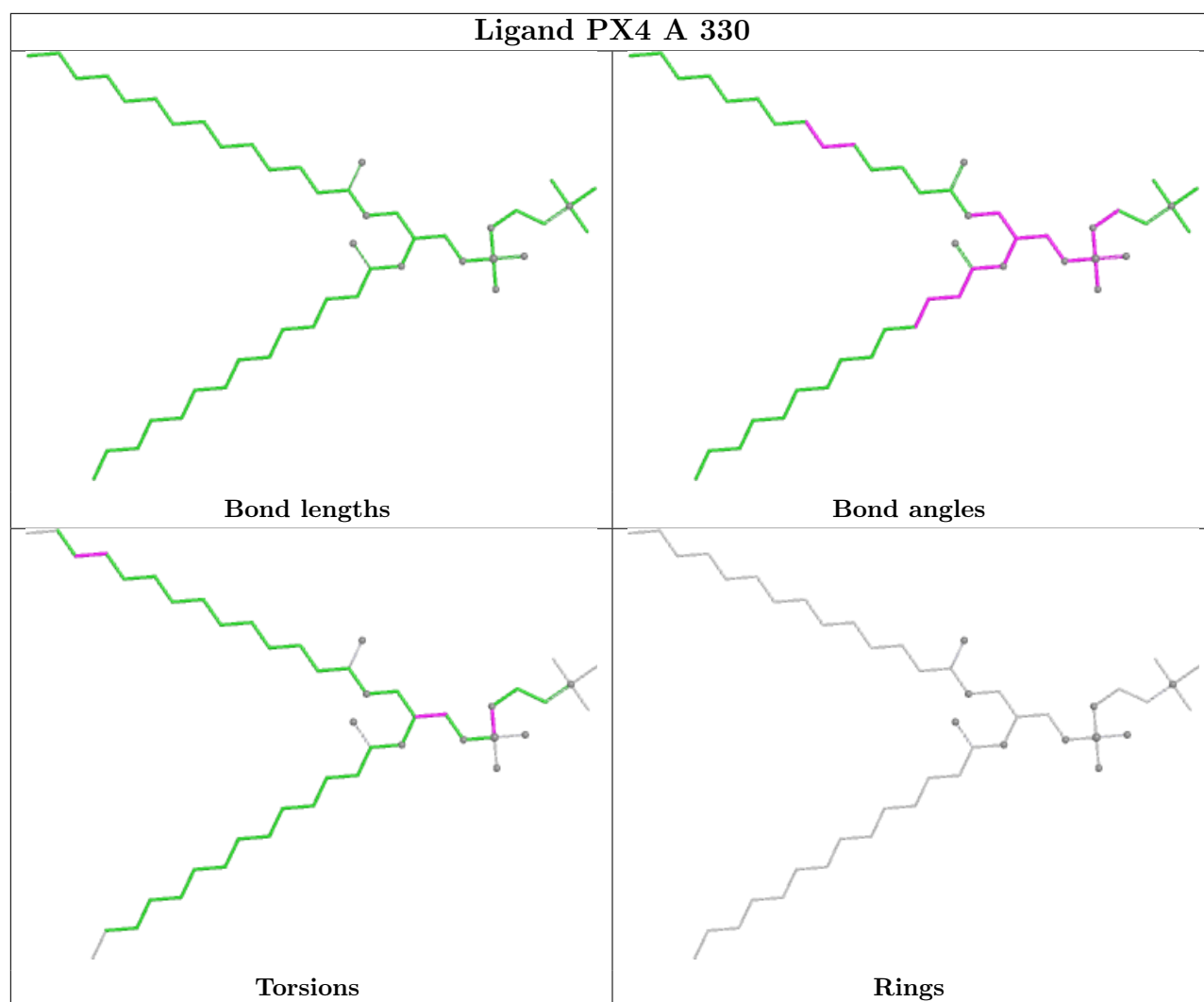


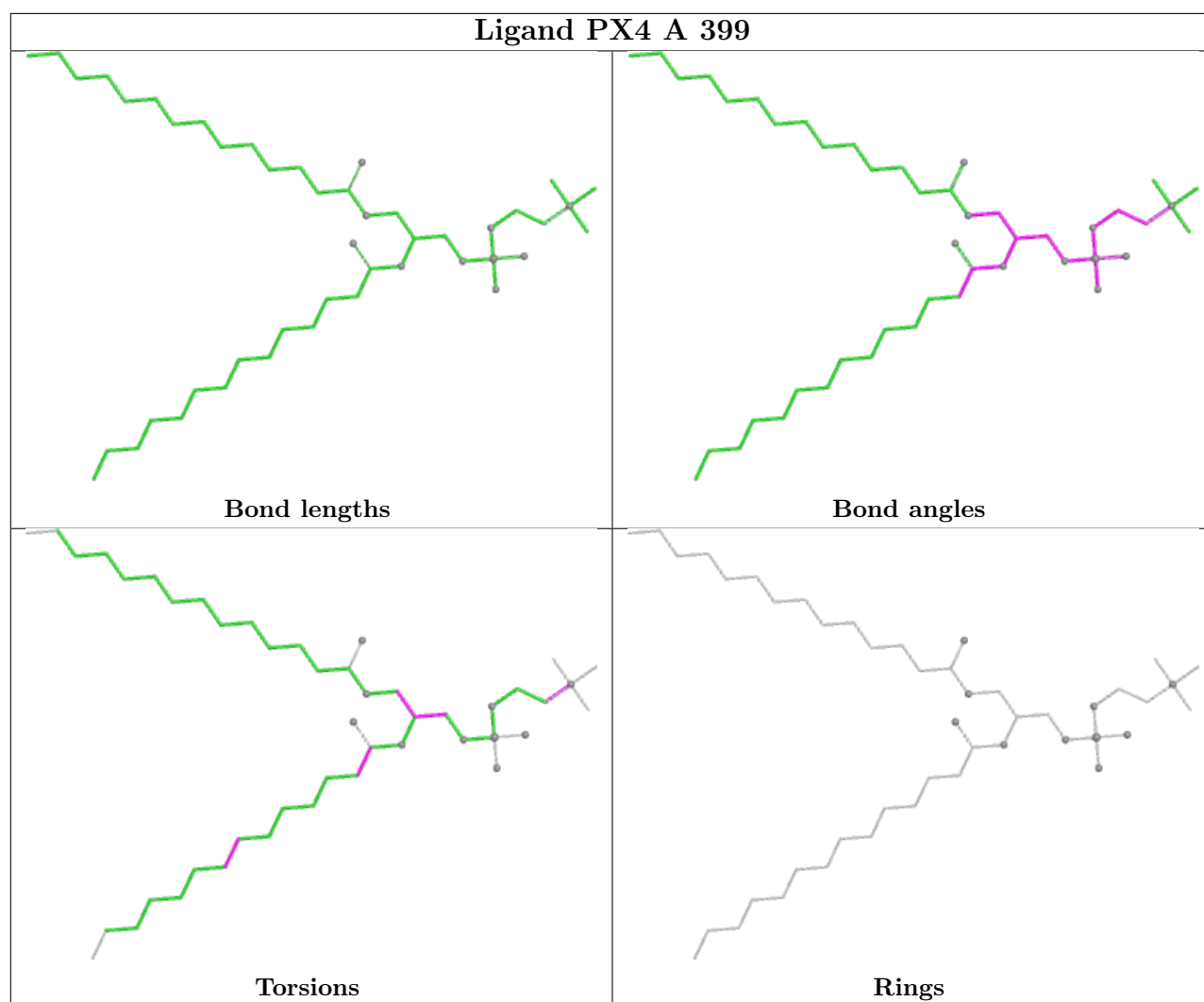


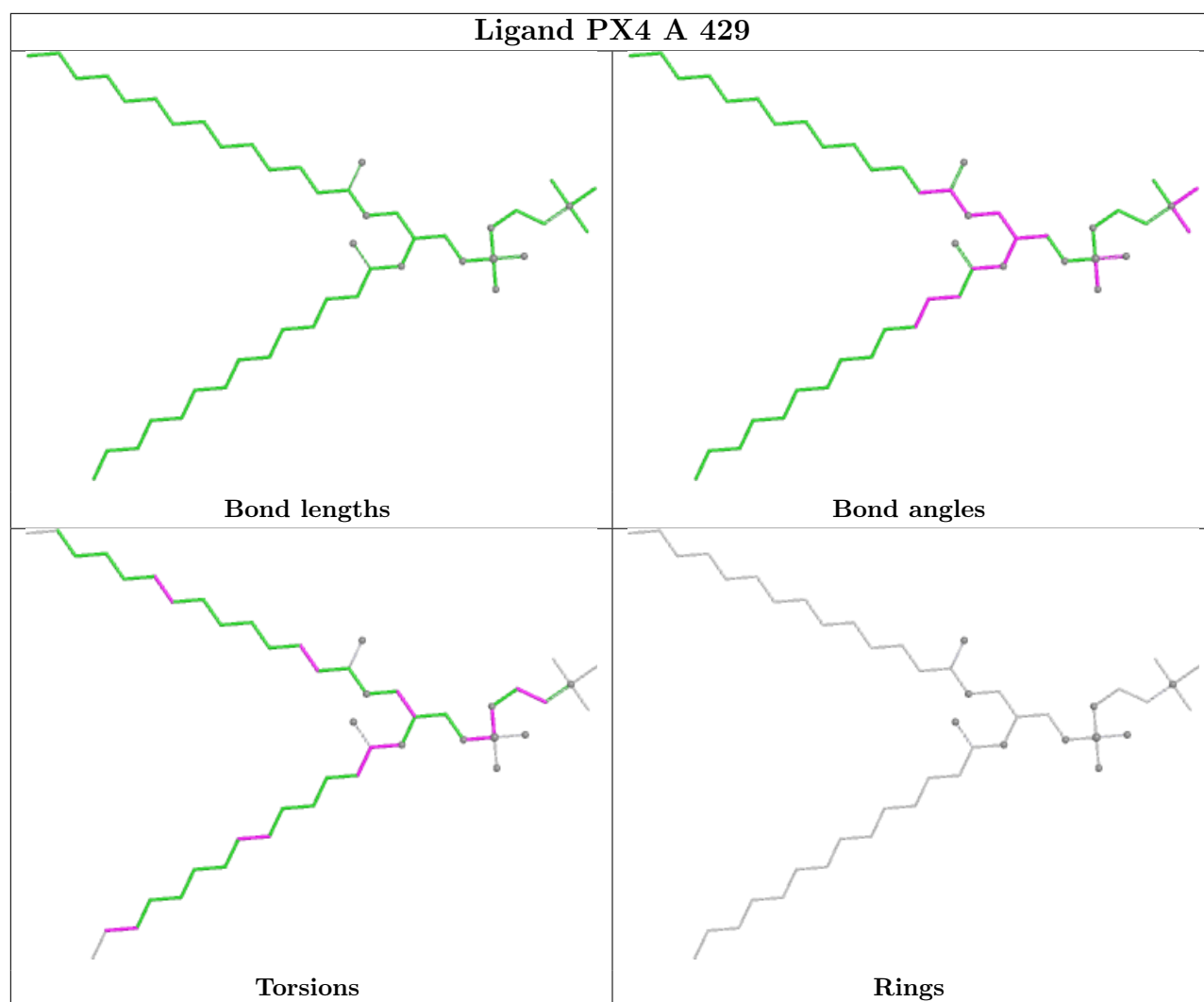


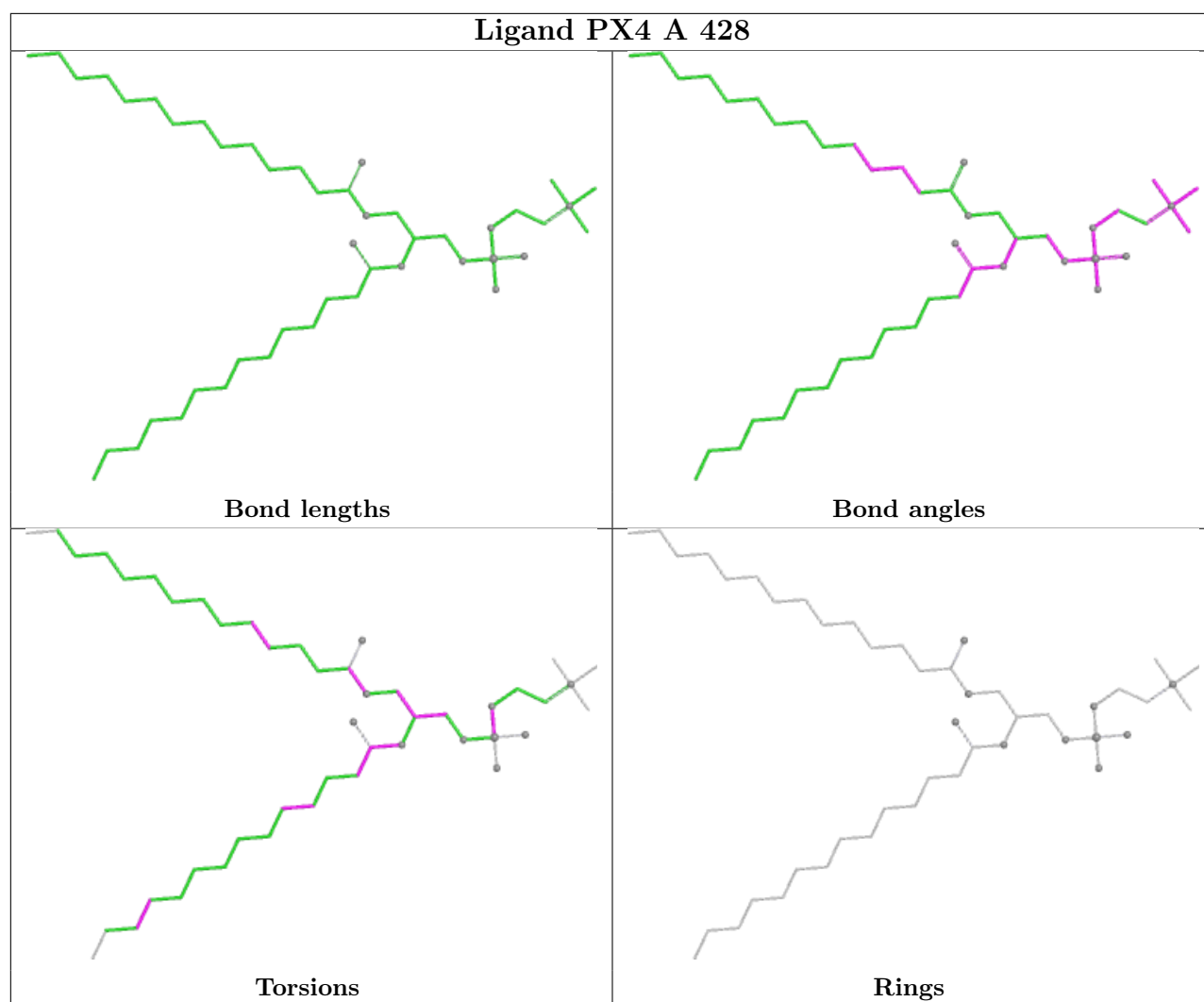


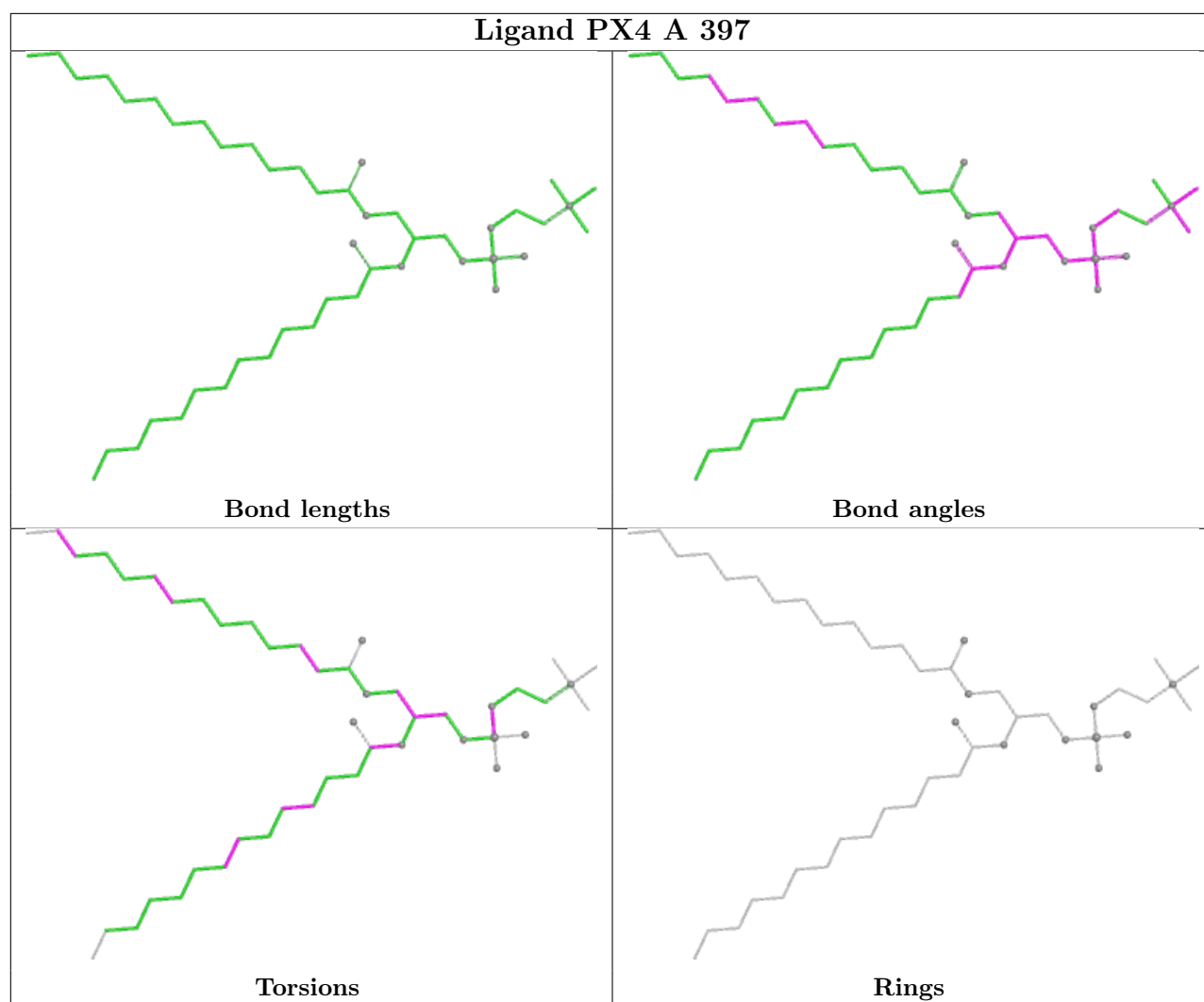


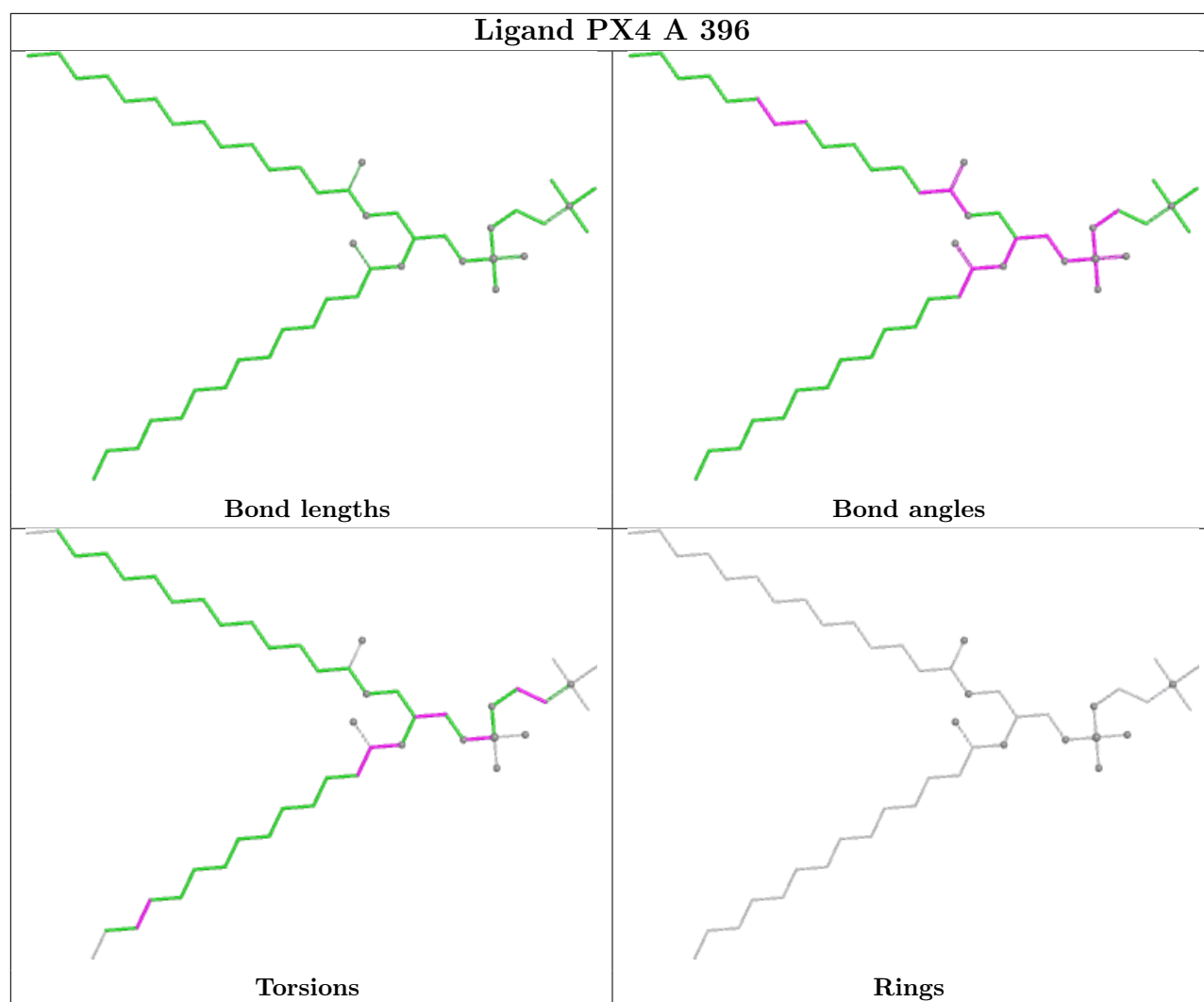


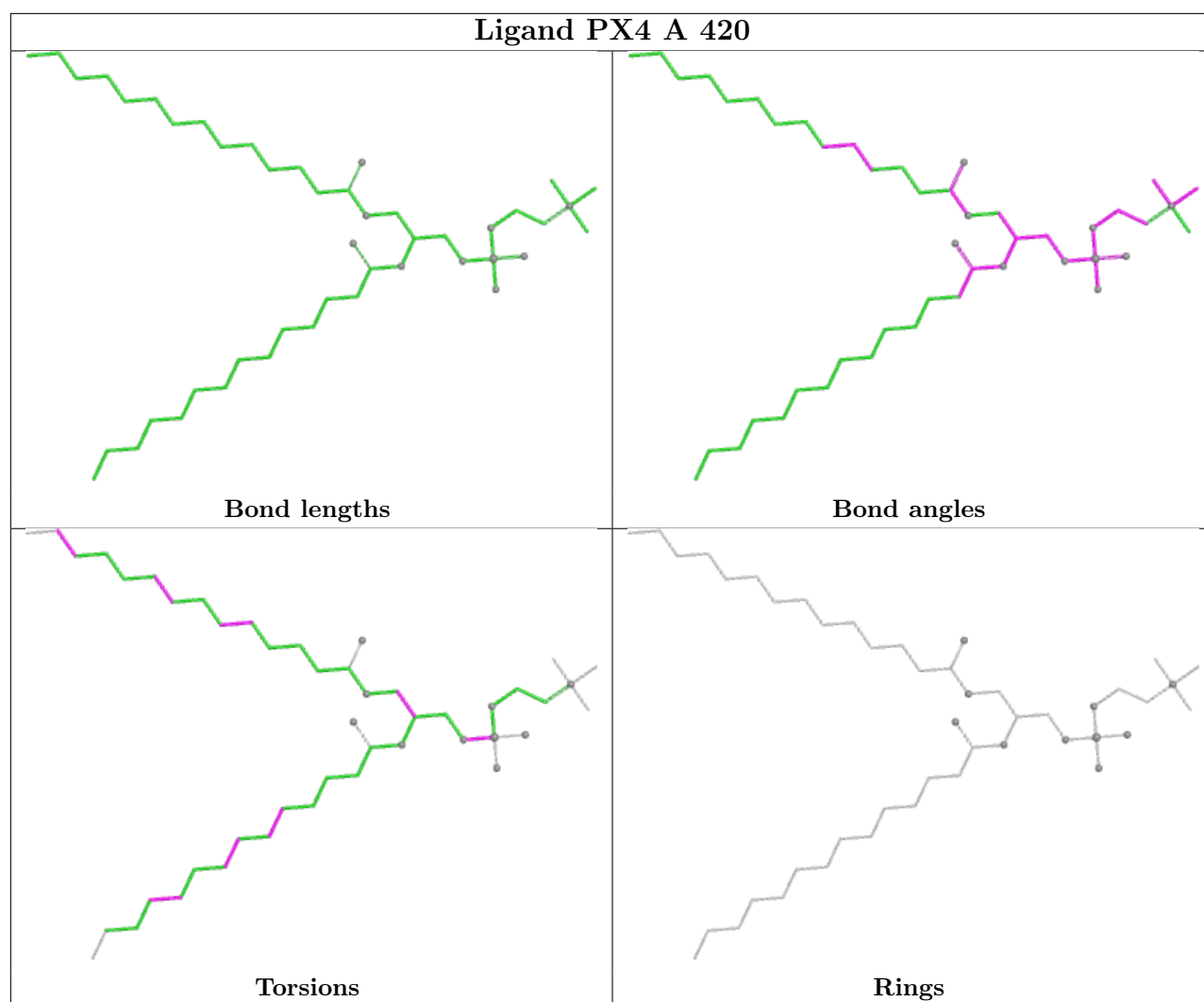




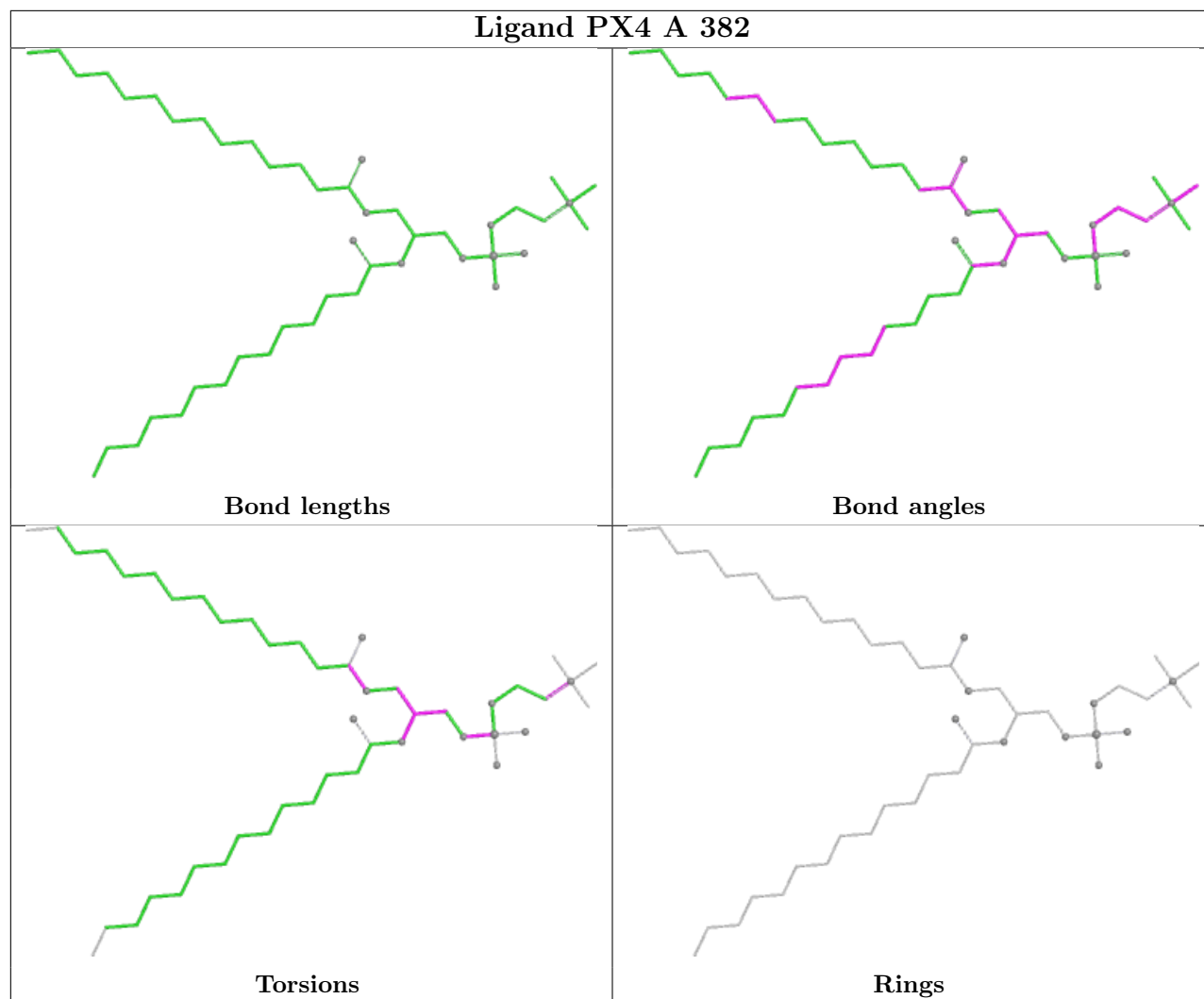


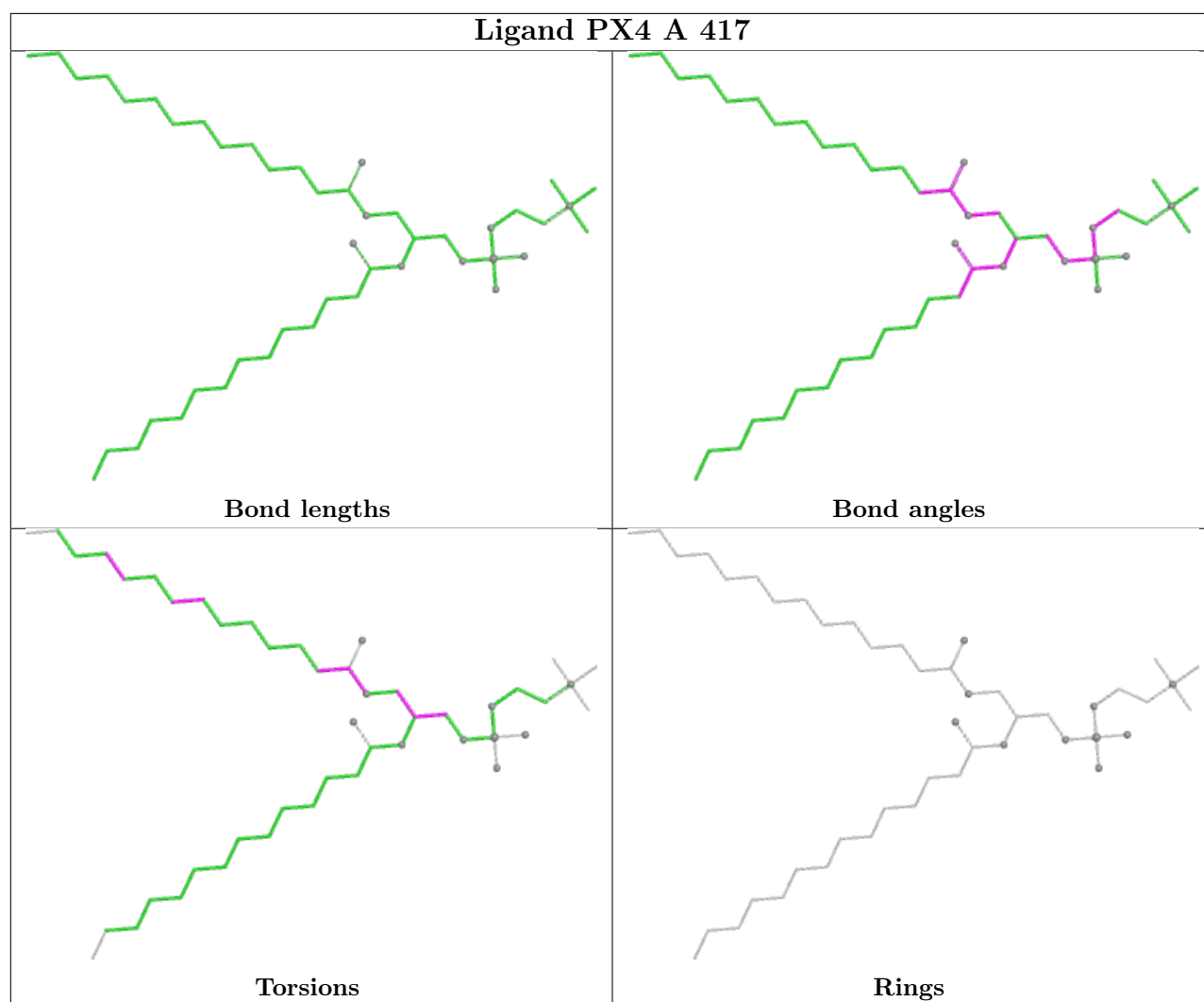


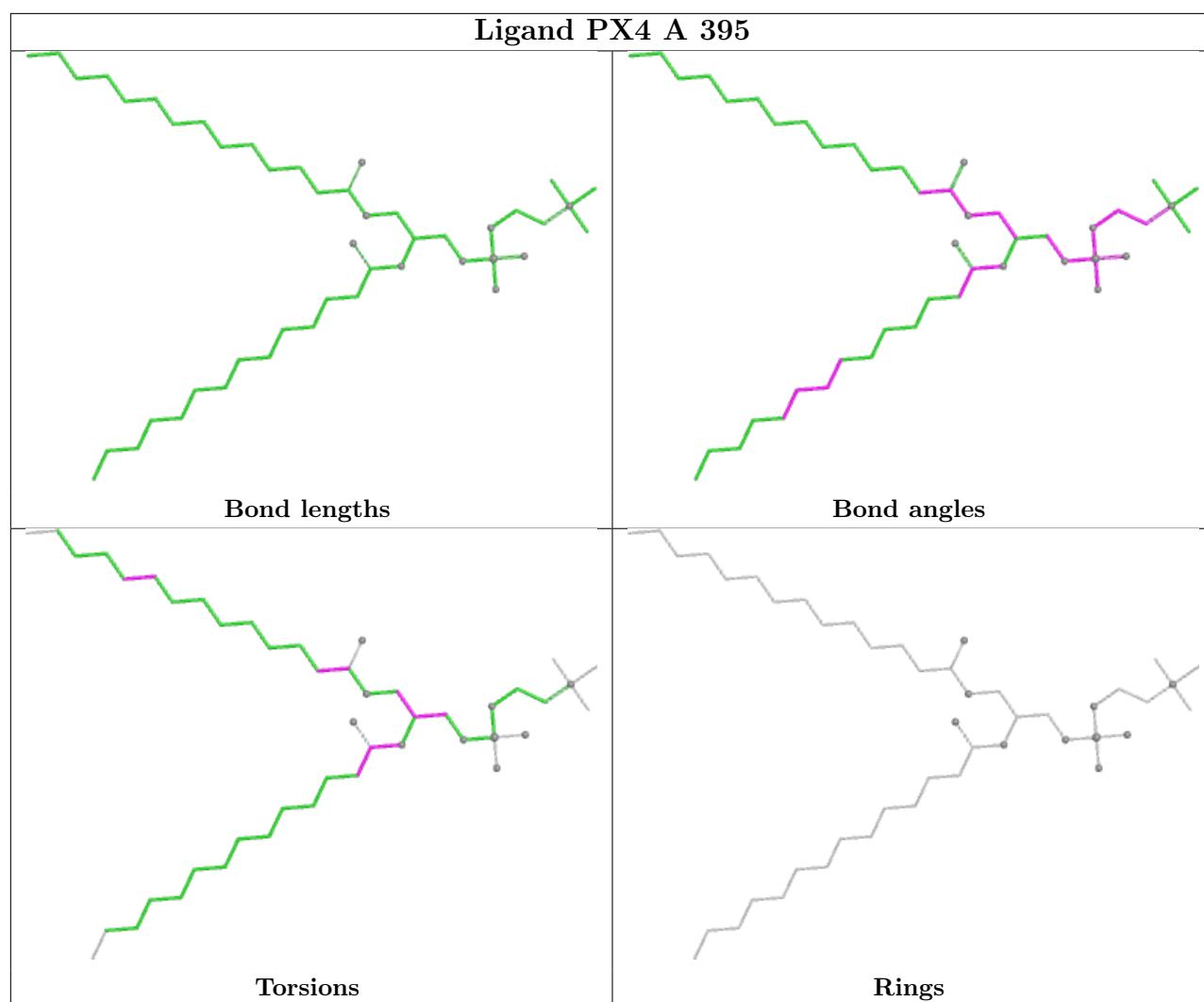


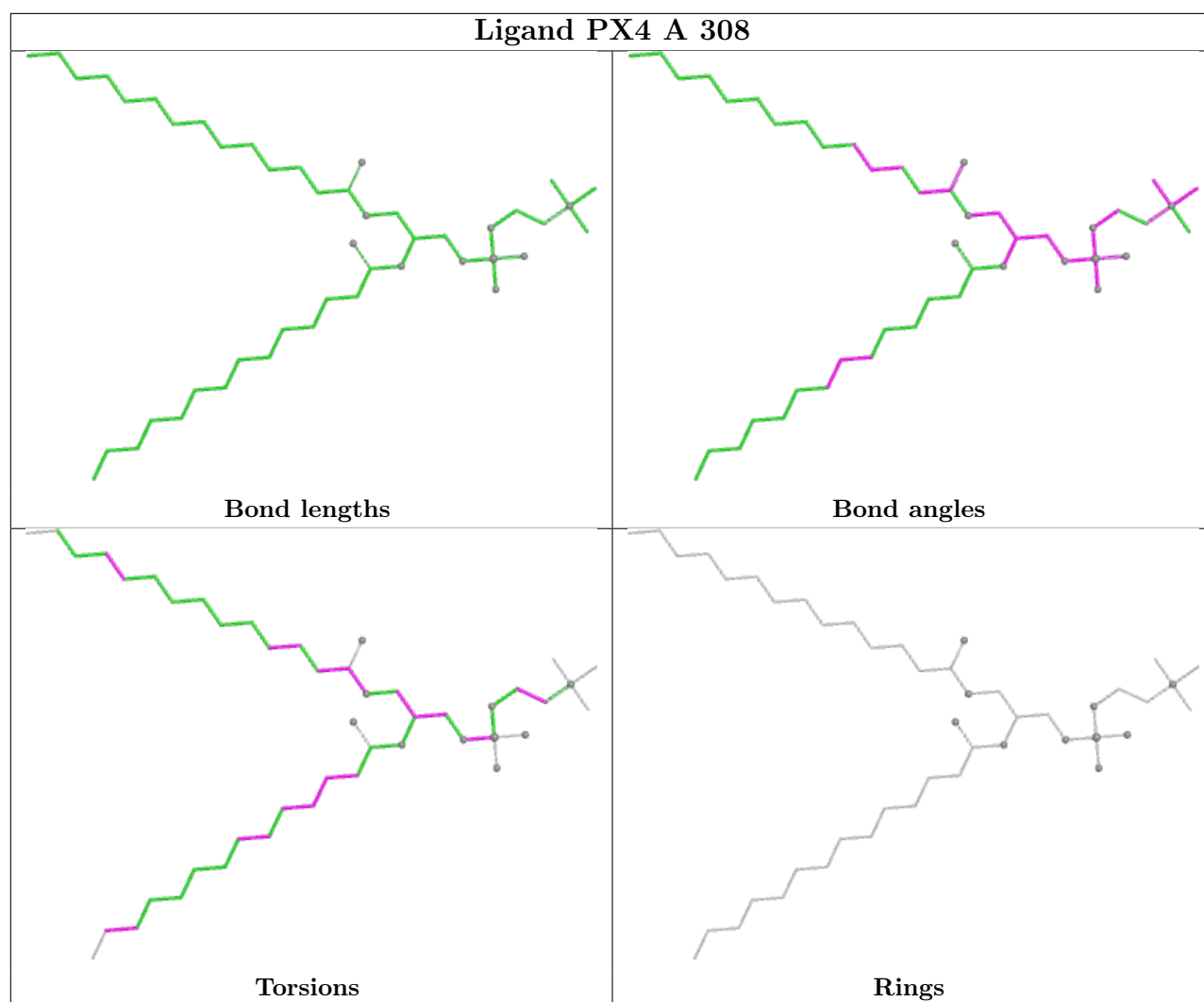


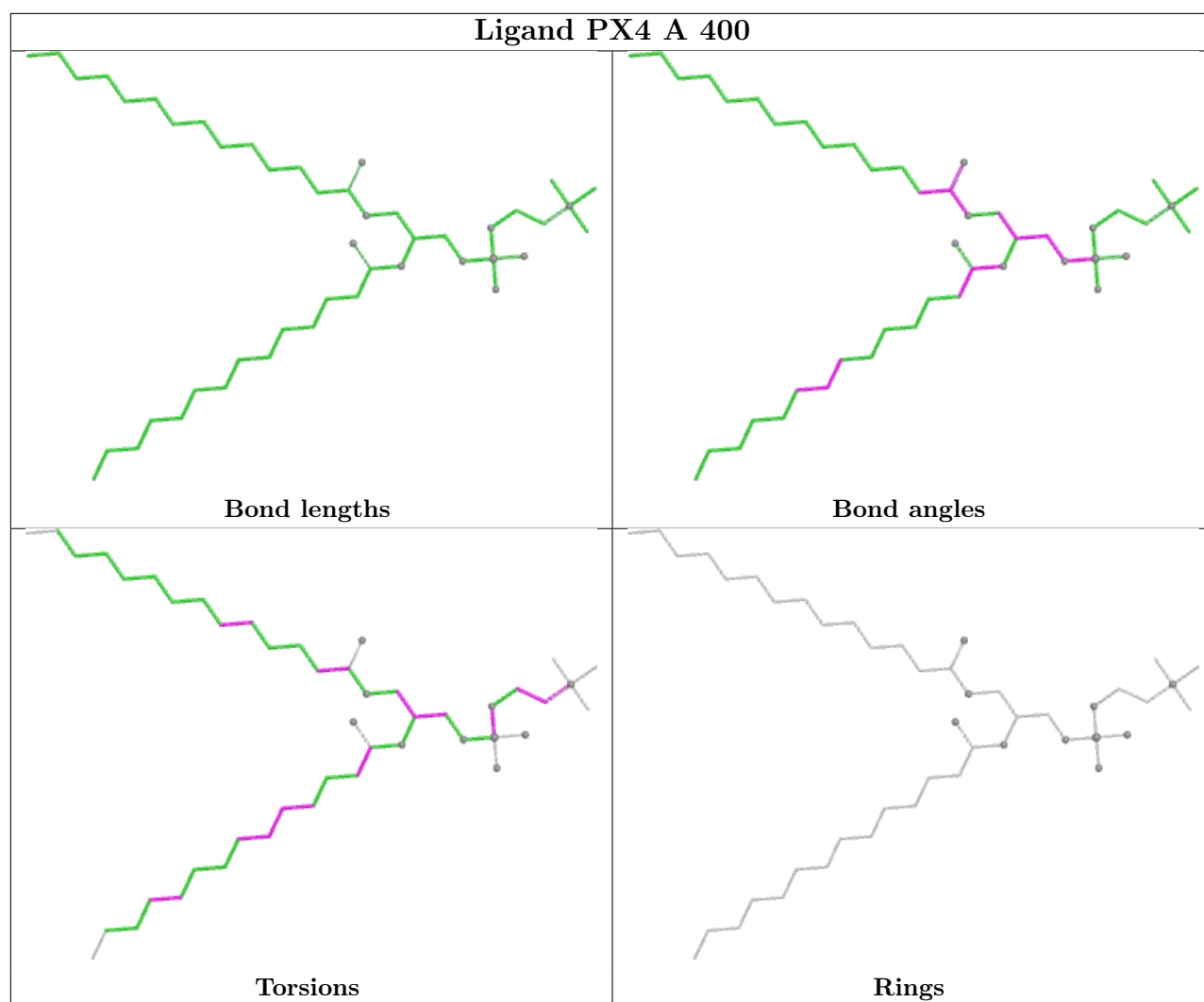
Ligand PX4 A 382

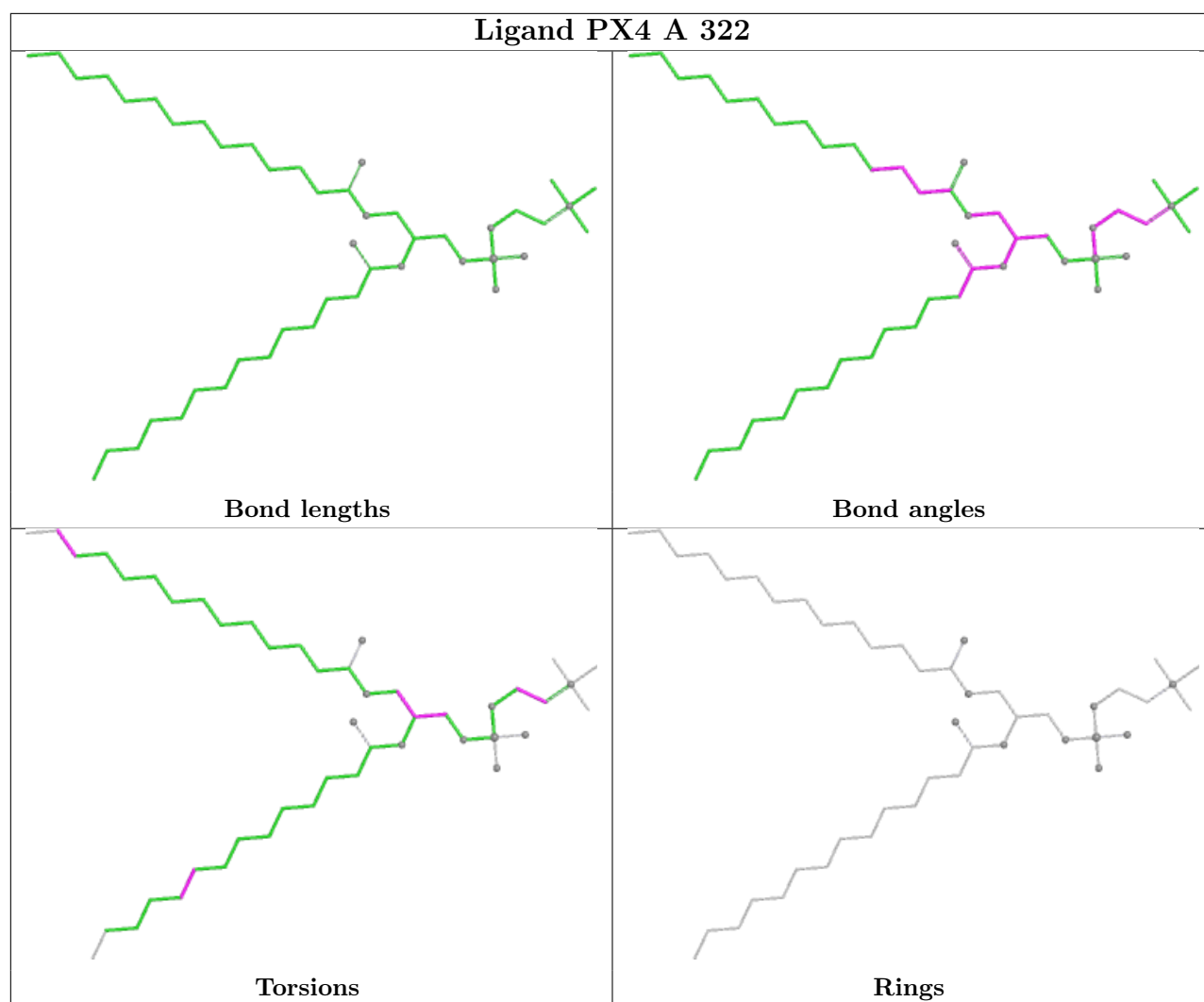












6.7 Other polymers [i](#)

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

The completeness of assignment taking into account all chemical shift lists is 48% for the well-defined parts and 45% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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	1503
Number of shifts mapped to atoms	1503
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	5

7.1.2 Chemical shift referencing

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	212	-0.20 ± 0.26	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 48%, i.e. 1465 atoms were assigned a chemical shift out of a possible 3064. 0 out of 30 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	603/1142 (53%)	402/468 (86%)	0/458 (0%)	201/216 (93%)
Sidechain	796/1597 (50%)	728/1039 (70%)	62/499 (12%)	6/59 (10%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	66/325 (20%)	61/161 (38%)	0/151 (0%)	5/13 (38%)
Overall	1465/3064 (48%)	1191/1668 (71%)	62/1108 (6%)	212/288 (74%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 45%, i.e. 1503 atoms were assigned a chemical shift out of a possible 3323. 0 out of 32 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	632/1237 (51%)	420/507 (83%)	0/496 (0%)	212/234 (91%)
Sidechain	805/1761 (46%)	737/1143 (64%)	62/548 (11%)	6/70 (9%)
Aromatic	66/325 (20%)	61/161 (38%)	0/151 (0%)	5/13 (38%)
Overall	1503/3323 (45%)	1218/1811 (67%)	62/1195 (5%)	223/317 (70%)

7.1.4 Statistically unusual chemical shifts ⓘ

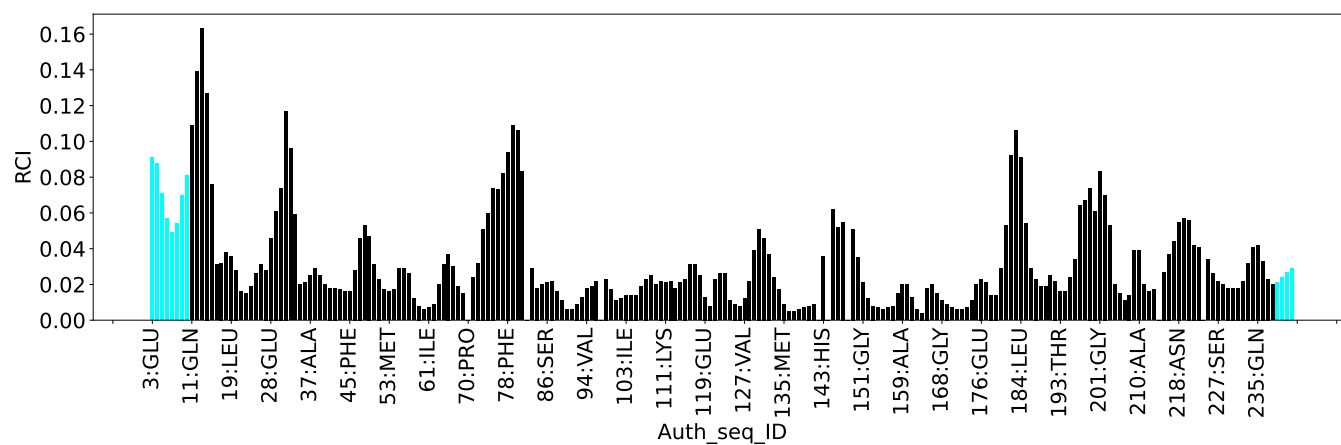
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	107	ARG	NE	119.47	76.53 – 92.65	21.6
1	A	162	PRO	HB3	-0.30	0.25 – 3.76	-6.6
1	A	242	SER	N	135.65	99.14 – 133.45	5.6
1	A	62	MET	HG3	0.34	0.54 – 4.26	-5.5
1	A	97	THR	HB	2.52	2.57 – 5.77	-5.2

7.1.5 Random Coil Index (RCI) plots ⓘ

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:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

The following table provides the summary of experimentally observed NMR restraints in different categories. Restraints are classified into different categories based on the sequence separation of the atoms involved.

Description	Value
Total distance restraints	1064
Intra-residue ($ i-j =0$)	197
Sequential ($ i-j =1$)	383
Medium range ($ i-j >1$ and $ i-j <5$)	164
Long range ($ i-j \geq 5$)	243
Inter-chain	64
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	2.8
Number of long range restraints per residue ¹	0.6

¹Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

8.2 Residual restraint violations

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

8.2.1 Average number of distance violations per model

Distance violations less than 0.1 Å are not included in the calculation.

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	27.9	0.2
0.2-0.5 (Medium)	53.0	0.5
>0.5 (Large)	106.6	20.41

8.2.2 Average number of dihedral-angle violations per model [i](#)

Dihedral-angle violations less than 1° are not included in the calculation. There are no dihedral-angle violations

9 Distance violation analysis ⓘ

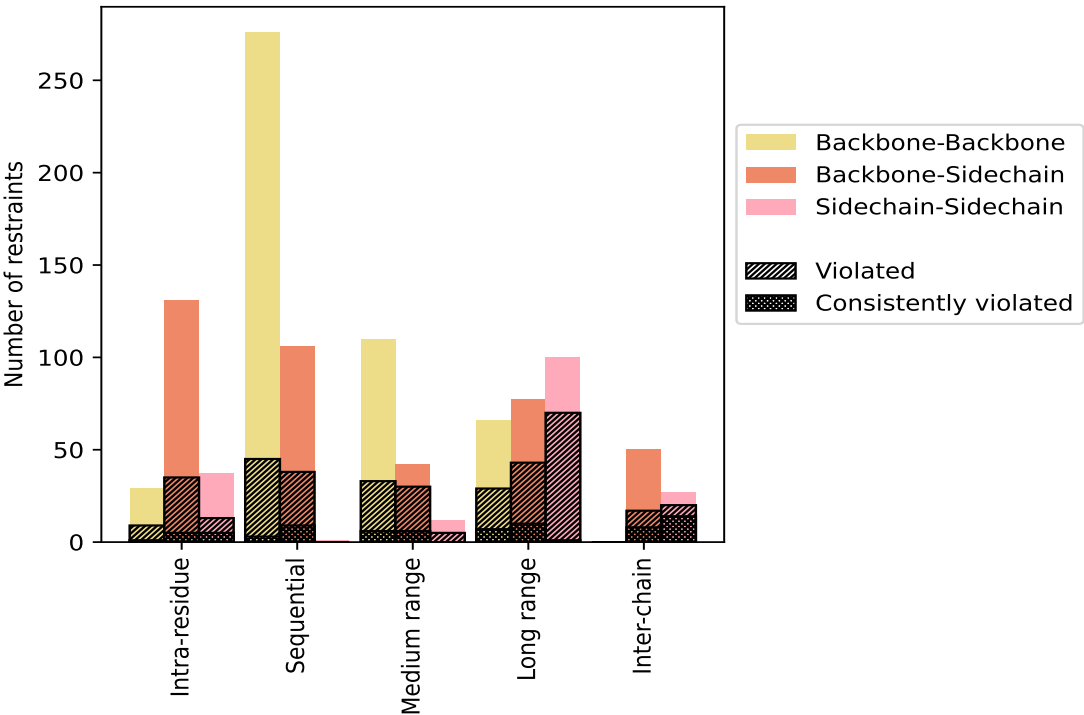
9.1 Summary of distance violations ⓘ

The following table shows the summary of distance violations in different restraint categories based on the sequence separation of the atoms involved. Each category is further sub-divided into three sub-categories based on the atoms involved. Violations less than 0.1 Å are not included in the statistics.

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	197	18.5	57	28.9	5.4	11	5.6	1.0
Backbone-Backbone	29	2.7	9	31.0	0.8	1	3.4	0.1
Backbone-Sidechain	131	12.3	35	26.7	3.3	5	3.8	0.5
Sidechain-Sidechain	37	3.5	13	35.1	1.2	5	13.5	0.5
Sequential (i-j =1)	383	36.0	83	21.7	7.8	12	3.1	1.1
Backbone-Backbone	276	25.9	45	16.3	4.2	3	1.1	0.3
Backbone-Sidechain	106	10.0	38	35.8	3.6	9	8.5	0.8
Sidechain-Sidechain	1	0.1	0	0.0	0.0	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	164	15.4	68	41.5	6.4	12	7.3	1.1
Backbone-Backbone	110	10.3	33	30.0	3.1	6	5.5	0.6
Backbone-Sidechain	42	3.9	30	71.4	2.8	6	14.3	0.6
Sidechain-Sidechain	12	1.1	5	41.7	0.5	0	0.0	0.0
Long range (i-j ≥5)	243	22.8	142	58.4	13.3	18	7.4	1.7
Backbone-Backbone	66	6.2	29	43.9	2.7	7	10.6	0.7
Backbone-Sidechain	77	7.2	43	55.8	4.0	10	13.0	0.9
Sidechain-Sidechain	100	9.4	70	70.0	6.6	1	1.0	0.1
Inter-chain	64	6.0	26	40.6	2.4	12	18.8	1.1
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	50	4.7	17	34.0	1.6	8	16.0	0.8
Sidechain-Sidechain	14	1.3	9	64.3	0.8	4	28.6	0.4
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1064	100.0	387	36.4	36.4	75	7.0	7.0
Backbone-Backbone	481	45.2	116	24.1	10.9	17	3.5	1.6
Backbone-Sidechain	406	38.2	163	40.1	15.3	38	9.4	3.6
Sidechain-Sidechain	177	16.6	108	61.0	10.2	20	11.3	1.9

¹ percentage calculated with respect to the total number of distance restraints, ² percentage calculated with respect to the number of restraints in a particular restraint category, ³ violated in at least one model, ⁴ violated in all the models

9.1.1 Bar chart : Distribution of distance restraints and violations [i](#)



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfied bonds are counted in their appropriate category on the x-axis

9.2 Distance violation statistics for each model [i](#)

The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	29	38	34	62	31	194	2.2	18.85	3.65	0.67
2	26	33	40	52	31	182	2.05	18.36	3.47	0.62
3	29	41	30	45	36	181	2.23	18.95	3.76	0.74
4	26	40	30	60	28	184	2.04	19.12	3.64	0.62
5	24	39	38	60	29	190	2.12	18.57	3.62	0.69
6	34	40	31	69	30	204	1.92	18.8	3.36	0.6
7	29	45	35	56	33	198	2.18	19.47	3.77	0.66
8	32	40	32	58	32	194	2.0	18.51	3.51	0.56
9	26	34	27	67	32	186	2.05	18.94	3.55	0.65
10	28	41	28	66	32	195	2.07	18.87	3.65	0.57

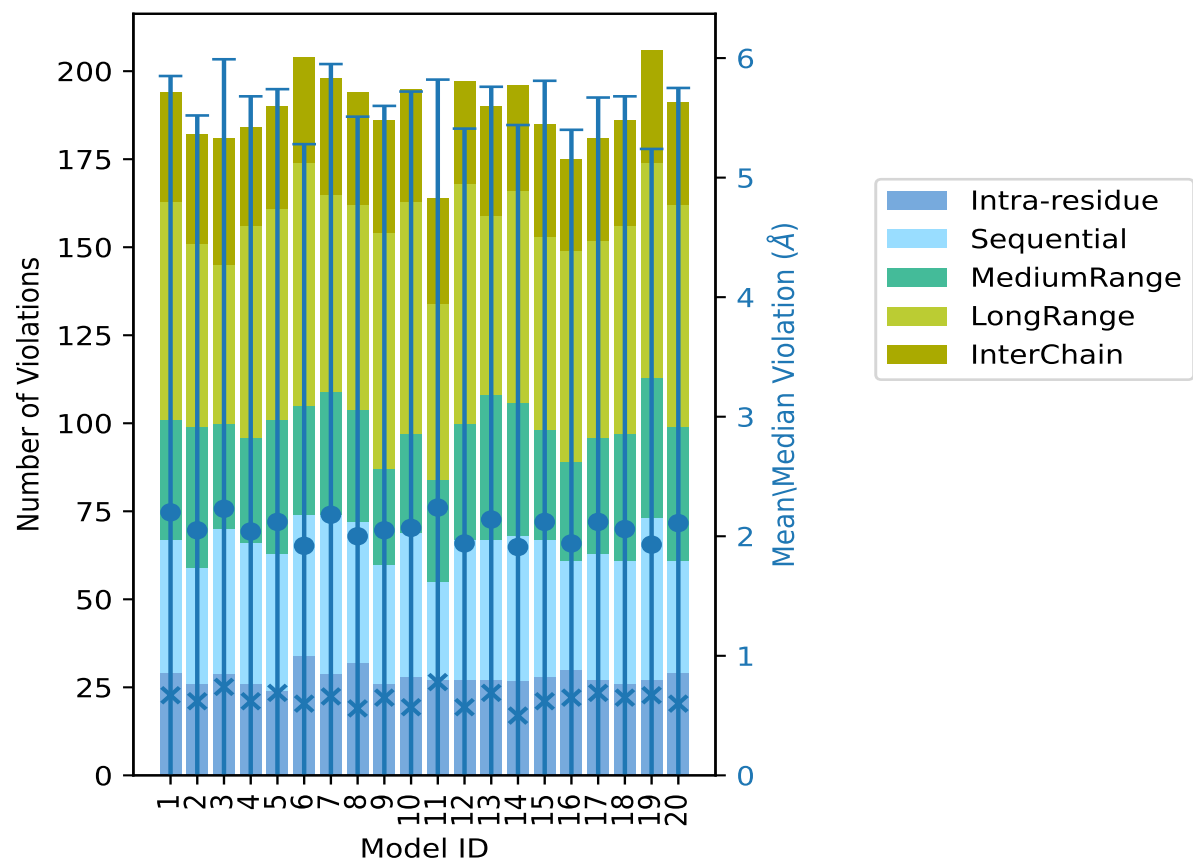
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	27	28	29	50	30	164	2.24	19.63	3.58	0.78
12	27	40	33	68	29	197	1.94	19.71	3.47	0.57
13	27	40	41	51	31	190	2.14	18.84	3.62	0.69
14	27	41	38	60	30	196	1.91	19.31	3.53	0.5
15	28	39	31	55	32	185	2.12	18.53	3.69	0.62
16	30	31	28	60	26	175	1.94	20.41	3.46	0.65
17	27	36	33	56	29	181	2.12	19.34	3.55	0.69
18	26	35	36	59	30	186	2.06	19.15	3.62	0.65
19	27	46	40	61	32	206	1.93	19.06	3.31	0.67
20	29	32	38	63	29	191	2.11	19.06	3.64	0.6

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

9.3 Distance violation statistics for the ensemble

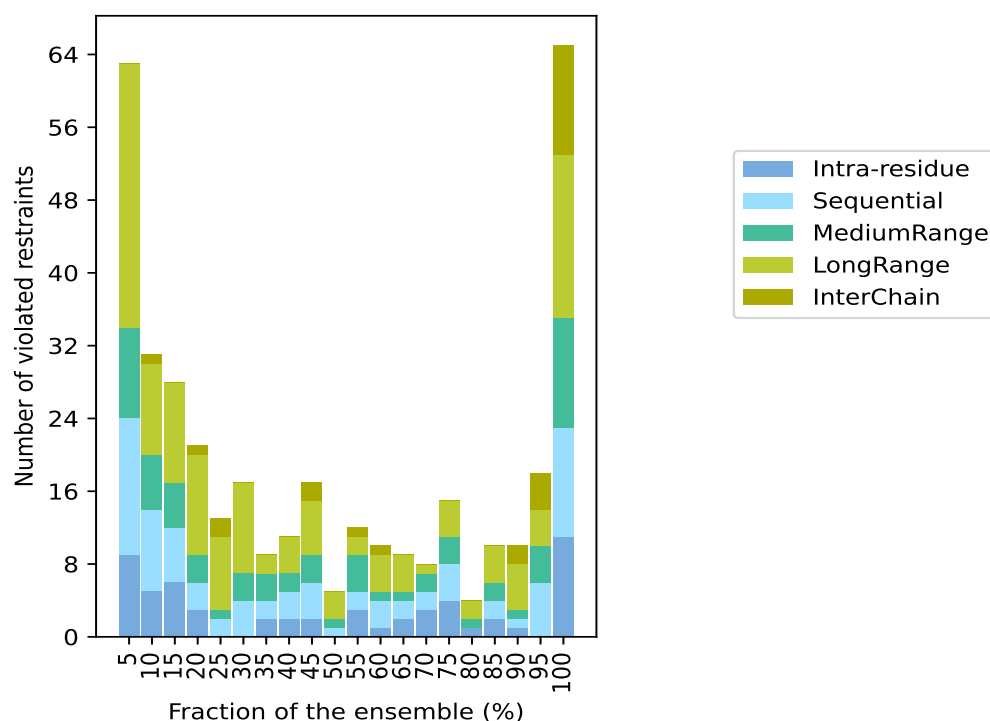
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 675(IR:140, SQ:300, MR:96, LR:101, IC:38) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
9	15	10	29	0	63	1	5.0
5	9	6	10	1	31	2	10.0
6	6	5	11	0	28	3	15.0
3	3	3	11	1	21	4	20.0
0	2	1	8	2	13	5	25.0
0	4	3	10	0	17	6	30.0
2	2	3	2	0	9	7	35.0
2	3	2	4	0	11	8	40.0
2	4	3	6	2	17	9	45.0
0	1	1	3	0	5	10	50.0
3	2	4	2	1	12	11	55.0
1	3	1	4	1	10	12	60.0
2	2	1	4	0	9	13	65.0
3	2	2	1	0	8	14	70.0
4	4	3	4	0	15	15	75.0
1	0	1	2	0	4	16	80.0
2	2	2	4	0	10	17	85.0
1	1	1	5	2	10	18	90.0
0	6	4	4	4	18	19	95.0
11	12	12	18	12	65	20	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶ Number of models with violations

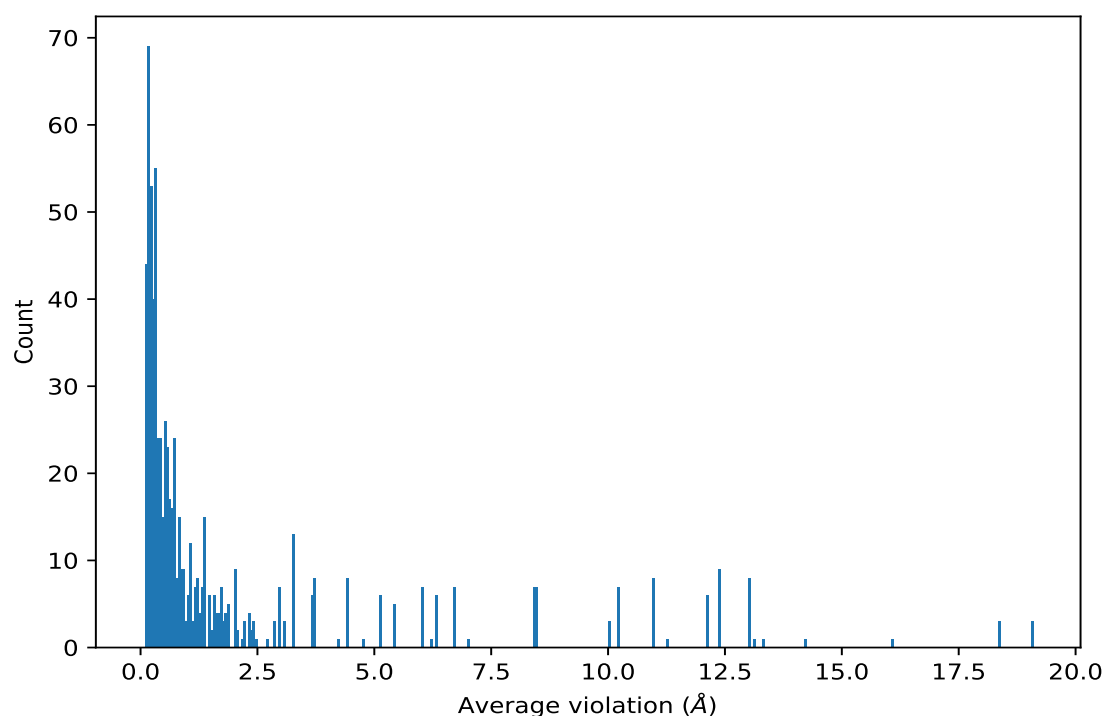
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



9.4 Most violated distance restraints in the ensemble [i](#)

9.4.1 Histogram : Distribution of mean distance violations [i](#)

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models in the ensemble



9.4.2 Table: Most violated distance restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	20	19.06	0.48	19.0
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	20	19.06	0.48	19.0
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	20	19.06	0.48	19.0
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	20	18.36	0.45	18.39
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	20	18.36	0.45	18.39
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	20	18.36	0.45	18.39
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	20	16.08	0.97	16.42
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	20	14.2	0.39	14.14
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	20	13.31	0.57	13.42
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	20	13.13	0.76	13.18
(3,21)	1:77:A:LEU:H	4:335:A:PX4:C35	20	13.02	2.22	12.8
(3,21)	1:77:A:LEU:H	4:347:A:PX4:C35	20	13.02	2.22	12.8
(3,21)	1:77:A:LEU:H	4:351:A:PX4:C35	20	13.02	2.22	12.8
(3,21)	1:77:A:LEU:H	4:355:A:PX4:C35	20	13.02	2.22	12.8
(3,21)	1:77:A:LEU:H	4:333:A:PX4:C35	20	13.02	2.22	12.8
(3,21)	1:77:A:LEU:H	4:337:A:PX4:C35	20	13.02	2.22	12.8

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,21)	1:77:A:LEU:H	4:329:A:PX4:C35	20	13.02	2.22	12.8
(3,21)	1:77:A:LEU:H	4:345:A:PX4:C35	20	13.02	2.22	12.8
(3,33)	1:155:A:THR:H	4:355:A:PX4:C35	20	12.35	1.48	12.44
(3,33)	1:155:A:THR:H	4:347:A:PX4:C35	20	12.35	1.48	12.44
(3,33)	1:155:A:THR:H	4:353:A:PX4:C35	20	12.35	1.48	12.44
(3,33)	1:155:A:THR:H	4:331:A:PX4:C35	20	12.35	1.48	12.44
(3,33)	1:155:A:THR:H	4:339:A:PX4:C35	20	12.35	1.48	12.44
(3,33)	1:155:A:THR:H	4:321:A:PX4:C35	20	12.35	1.48	12.44
(3,33)	1:155:A:THR:H	4:333:A:PX4:C35	20	12.35	1.48	12.44
(3,33)	1:155:A:THR:H	4:335:A:PX4:C35	20	12.35	1.48	12.44
(3,33)	1:155:A:THR:H	4:329:A:PX4:C35	20	12.35	1.48	12.44
(3,35)	1:194:A:HIS:H	4:333:A:PX4:C35	20	12.1	2.3	12.24
(3,35)	1:194:A:HIS:H	4:347:A:PX4:C35	20	12.1	2.3	12.24
(3,35)	1:194:A:HIS:H	4:355:A:PX4:C35	20	12.1	2.3	12.24
(3,35)	1:194:A:HIS:H	4:331:A:PX4:C35	20	12.1	2.3	12.24
(3,35)	1:194:A:HIS:H	4:339:A:PX4:C35	20	12.1	2.3	12.24
(3,35)	1:194:A:HIS:H	4:349:A:PX4:C35	20	12.1	2.3	12.24
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	20	11.29	0.57	11.21
(3,32)	1:154:A:ASN:ND2	4:355:A:PX4:C35	20	10.98	1.84	11.08
(3,32)	1:154:A:ASN:ND2	4:347:A:PX4:C35	20	10.98	1.84	11.08
(3,32)	1:154:A:ASN:ND2	4:353:A:PX4:C35	20	10.98	1.84	11.08
(3,32)	1:154:A:ASN:ND2	4:321:A:PX4:C35	20	10.98	1.84	11.08
(3,32)	1:154:A:ASN:ND2	4:331:A:PX4:C35	20	10.98	1.84	11.08
(3,32)	1:154:A:ASN:ND2	4:339:A:PX4:C35	20	10.98	1.84	11.08
(3,32)	1:154:A:ASN:ND2	4:335:A:PX4:C35	20	10.98	1.84	11.08
(3,32)	1:154:A:ASN:ND2	4:329:A:PX4:C35	20	10.98	1.84	11.08
(3,6)	1:78:A:PHE:H	4:329:A:PX4:C27	20	10.2	1.88	10.06
(3,6)	1:78:A:PHE:H	4:335:A:PX4:C27	20	10.2	1.88	10.06
(3,6)	1:78:A:PHE:H	4:347:A:PX4:C27	20	10.2	1.88	10.06
(3,6)	1:78:A:PHE:H	4:355:A:PX4:C27	20	10.2	1.88	10.06
(3,6)	1:78:A:PHE:H	4:331:A:PX4:C27	20	10.2	1.88	10.06
(3,6)	1:78:A:PHE:H	4:337:A:PX4:C27	20	10.2	1.88	10.06
(3,6)	1:78:A:PHE:H	4:345:A:PX4:C27	20	10.2	1.88	10.06
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	20	10.0	0.48	9.93
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	20	10.0	0.48	9.93
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	20	10.0	0.48	9.93
(3,31)	1:153:A:GLY:H	4:355:A:PX4:C35	20	8.48	1.51	8.44
(3,31)	1:153:A:GLY:H	4:347:A:PX4:C35	20	8.48	1.51	8.44
(3,31)	1:153:A:GLY:H	4:321:A:PX4:C35	20	8.48	1.51	8.44
(3,31)	1:153:A:GLY:H	4:341:A:PX4:C35	20	8.48	1.51	8.44
(3,31)	1:153:A:GLY:H	4:331:A:PX4:C35	20	8.48	1.51	8.44
(3,31)	1:153:A:GLY:H	4:339:A:PX4:C35	20	8.48	1.51	8.44

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,31)	1:153:A:GLY:H	4:323:A:PX4:C35	20	8.48	1.51	8.44
(3,34)	1:193:A:THR:H	4:341:A:PX4:C35	20	8.42	2.53	7.94
(3,34)	1:193:A:THR:H	4:331:A:PX4:C35	20	8.42	2.53	7.94
(3,34)	1:193:A:THR:H	4:355:A:PX4:C35	20	8.42	2.53	7.94
(3,34)	1:193:A:THR:H	4:339:A:PX4:C35	20	8.42	2.53	7.94
(3,34)	1:193:A:THR:H	4:333:A:PX4:C35	20	8.42	2.53	7.94
(3,34)	1:193:A:THR:H	4:313:A:PX4:C35	20	8.42	2.53	7.94
(3,34)	1:193:A:THR:H	4:349:A:PX4:C35	20	8.42	2.53	7.94
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	20	7.04	1.06	6.72
(3,4)	1:77:A:LEU:CD1	4:329:A:PX4:C27	20	6.72	2.01	6.65
(3,4)	1:77:A:LEU:CD1	4:337:A:PX4:C27	20	6.72	2.01	6.65
(3,4)	1:77:A:LEU:CD1	4:335:A:PX4:C27	20	6.72	2.01	6.65
(3,4)	1:77:A:LEU:CD1	4:347:A:PX4:C27	20	6.72	2.01	6.65
(3,4)	1:77:A:LEU:CD1	4:355:A:PX4:C27	20	6.72	2.01	6.65
(3,4)	1:77:A:LEU:CD1	4:331:A:PX4:C27	20	6.72	2.01	6.65
(3,4)	1:77:A:LEU:CD1	4:345:A:PX4:C27	20	6.72	2.01	6.65
(3,1)	1:74:A:GLU:H	4:329:A:PX4:C27	20	6.33	1.57	6.4
(3,1)	1:74:A:GLU:H	4:337:A:PX4:C27	20	6.33	1.57	6.4
(3,1)	1:74:A:GLU:H	4:335:A:PX4:C27	20	6.33	1.57	6.4
(3,1)	1:74:A:GLU:H	4:331:A:PX4:C27	20	6.33	1.57	6.4
(3,1)	1:74:A:GLU:H	4:347:A:PX4:C27	20	6.33	1.57	6.4
(3,1)	1:74:A:GLU:H	4:355:A:PX4:C27	20	6.33	1.57	6.4
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	20	6.2	0.51	6.08
(3,17)	1:154:A:ASN:ND2	4:331:A:PX4:C27	20	5.4	1.22	5.49
(3,17)	1:154:A:ASN:ND2	4:321:A:PX4:C27	20	5.4	1.22	5.49
(3,17)	1:154:A:ASN:ND2	4:361:A:PX4:C27	20	5.4	1.22	5.49
(3,17)	1:154:A:ASN:ND2	4:355:A:PX4:C27	20	5.4	1.22	5.49
(3,17)	1:154:A:ASN:ND2	4:335:A:PX4:C27	20	5.4	1.22	5.49
(3,3)	1:77:A:LEU:H	4:329:A:PX4:C27	20	5.1	1.66	4.89
(3,3)	1:77:A:LEU:H	4:335:A:PX4:C27	20	5.1	1.66	4.89
(3,3)	1:77:A:LEU:H	4:347:A:PX4:C27	20	5.1	1.66	4.89
(3,3)	1:77:A:LEU:H	4:355:A:PX4:C27	20	5.1	1.66	4.89
(3,3)	1:77:A:LEU:H	4:331:A:PX4:C27	20	5.1	1.66	4.89
(3,3)	1:77:A:LEU:H	4:337:A:PX4:C27	20	5.1	1.66	4.89
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	20	4.75	0.38	4.79
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	20	4.2	0.28	4.14
(3,20)	1:196:A:LEU:CD2	4:337:A:PX4:C27	20	3.29	1.04	2.9
(3,20)	1:196:A:LEU:CD2	4:355:A:PX4:C27	20	3.29	1.04	2.9
(3,20)	1:196:A:LEU:CD2	4:331:A:PX4:C27	20	3.29	1.04	2.9
(3,20)	1:196:A:LEU:CD2	4:333:A:PX4:C27	20	3.29	1.04	2.9
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	20	3.27	0.37	3.18
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	20	3.27	0.37	3.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	20	3.27	0.37	3.18
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	20	3.27	0.37	3.18
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	20	3.27	0.37	3.18
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	20	3.27	0.37	3.18
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	20	3.27	0.37	3.18
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	20	3.27	0.37	3.18
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	20	3.27	0.37	3.18
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	20	3.05	0.29	3.0
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	20	3.05	0.29	3.0
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	20	3.05	0.29	3.0
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	20	2.97	0.47	3.01
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	20	2.89	0.33	2.91
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	20	2.72	1.37	2.28
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	20	2.17	0.15	2.2
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	20	2.03	1.05	2.6
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	20	2.03	1.05	2.6
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	20	2.03	1.05	2.6
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	20	1.8	1.27	1.33
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	20	1.8	1.27	1.33
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	20	1.67	0.36	1.77
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	20	1.67	0.36	1.77
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	20	1.67	0.36	1.77
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	20	1.57	0.49	1.64
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	20	1.57	0.49	1.64
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	20	1.39	0.1	1.4
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	20	1.39	0.1	1.4
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	20	1.39	0.1	1.4
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	20	1.33	0.2	1.32
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	20	1.28	0.2	1.34
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	20	1.28	0.2	1.34
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	20	1.22	0.61	1.12
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	20	1.22	0.61	1.12
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	20	1.2	0.28	1.2
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	20	1.2	0.23	1.26
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	20	1.2	0.23	1.26
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	20	1.15	0.22	1.14
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	20	1.08	0.36	1.0
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	20	1.08	0.36	1.0
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	20	1.08	0.36	1.0
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	20	1.08	0.27	0.98
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	20	1.08	0.27	0.98
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	20	1.08	0.27	0.98

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	20	1.05	0.75	0.9
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	20	1.02	0.18	1.0
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	20	1.01	0.13	1.01
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	20	1.0	0.3	0.96
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	20	0.87	0.12	0.86
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	20	0.87	0.12	0.86
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	20	0.87	0.12	0.86
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	20	0.87	0.12	0.86
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	20	0.82	0.09	0.84
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	20	0.82	0.09	0.84
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	20	0.82	0.09	0.84
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	20	0.78	0.14	0.78
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	20	0.78	0.14	0.78
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	20	0.74	0.17	0.74
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	20	0.69	0.2	0.7
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	20	0.69	0.2	0.7
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	20	0.69	0.2	0.7
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	20	0.68	0.12	0.68
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	20	0.68	0.12	0.68
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	20	0.65	0.2	0.62
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	20	0.65	0.2	0.62
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	20	0.65	0.2	0.62
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	20	0.65	0.2	0.62
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	20	0.65	0.2	0.62
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	20	0.65	0.2	0.62
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	20	0.55	0.1	0.57
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	20	0.52	0.16	0.49
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	20	0.52	0.16	0.49
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	20	0.51	0.08	0.52
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	20	0.5	0.07	0.51
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	20	0.45	0.03	0.45
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	20	0.45	0.03	0.45
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	20	0.44	0.05	0.44
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	20	0.44	0.05	0.44
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	20	0.44	0.17	0.38
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	20	0.41	0.07	0.4
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	20	0.37	0.06	0.38
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	20	0.37	0.07	0.36
(1,13)	3:304:A:ZN:ZN	1:198:A:HIS:NE2	20	0.34	0.07	0.34
(1,13)	3:304:A:ZN:ZN	1:204:A:HIS:NE2	20	0.34	0.07	0.34
(1,13)	3:304:A:ZN:ZN	1:194:A:HIS:NE2	20	0.34	0.07	0.34
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	20	0.34	0.13	0.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	20	0.31	0.09	0.29
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	20	0.3	0.09	0.3
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	20	0.3	0.09	0.3
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	20	0.3	0.09	0.3
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD2	20	0.3	0.05	0.29
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD1	20	0.3	0.05	0.29
(1,2)	2:301:A:CA:CA	1:133:A:ASP:O	20	0.3	0.05	0.29
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	20	0.29	0.13	0.26
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	20	0.29	0.13	0.26
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	20	0.29	0.1	0.26
(1,10)	3:303:A:ZN:ZN	1:171:A:HIS:ND1	20	0.29	0.1	0.26
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	20	0.25	0.03	0.24
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	20	0.25	0.04	0.24
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	20	0.24	0.03	0.24
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	20	0.22	0.04	0.21
(3,5)	1:77:A:LEU:CD2	4:329:A:PX4:C27	19	6.03	2.17	6.24
(3,5)	1:77:A:LEU:CD2	4:337:A:PX4:C27	19	6.03	2.17	6.24
(3,5)	1:77:A:LEU:CD2	4:335:A:PX4:C27	19	6.03	2.17	6.24
(3,5)	1:77:A:LEU:CD2	4:331:A:PX4:C27	19	6.03	2.17	6.24
(3,5)	1:77:A:LEU:CD2	4:347:A:PX4:C27	19	6.03	2.17	6.24
(3,5)	1:77:A:LEU:CD2	4:355:A:PX4:C27	19	6.03	2.17	6.24
(3,5)	1:77:A:LEU:CD2	4:345:A:PX4:C27	19	6.03	2.17	6.24
(3,26)	1:128:A:VAL:H	4:333:A:PX4:C35	19	4.43	1.64	4.56
(3,26)	1:128:A:VAL:H	4:306:A:PX4:C35	19	4.43	1.64	4.56
(3,26)	1:128:A:VAL:H	4:345:A:PX4:C35	19	4.43	1.64	4.56
(3,26)	1:128:A:VAL:H	4:363:A:PX4:C35	19	4.43	1.64	4.56
(3,26)	1:128:A:VAL:H	4:329:A:PX4:C35	19	4.43	1.64	4.56
(3,26)	1:128:A:VAL:H	4:339:A:PX4:C35	19	4.43	1.64	4.56
(3,26)	1:128:A:VAL:H	4:361:A:PX4:C35	19	4.43	1.64	4.56
(3,26)	1:128:A:VAL:H	4:313:A:PX4:C35	19	4.43	1.64	4.56
(3,2)	1:76:A:SER:H	4:329:A:PX4:C27	19	3.66	1.59	3.61
(3,2)	1:76:A:SER:H	4:347:A:PX4:C27	19	3.66	1.59	3.61
(3,2)	1:76:A:SER:H	4:335:A:PX4:C27	19	3.66	1.59	3.61
(3,2)	1:76:A:SER:H	4:355:A:PX4:C27	19	3.66	1.59	3.61
(3,2)	1:76:A:SER:H	4:331:A:PX4:C27	19	3.66	1.59	3.61
(3,2)	1:76:A:SER:H	4:337:A:PX4:C27	19	3.66	1.59	3.61
(3,9)	1:128:A:VAL:H	4:337:A:PX4:C27	19	2.95	1.19	2.7
(3,9)	1:128:A:VAL:H	4:306:A:PX4:C27	19	2.95	1.19	2.7
(3,9)	1:128:A:VAL:H	4:313:A:PX4:C27	19	2.95	1.19	2.7
(3,9)	1:128:A:VAL:H	4:333:A:PX4:C27	19	2.95	1.19	2.7
(3,9)	1:128:A:VAL:H	4:345:A:PX4:C27	19	2.95	1.19	2.7
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	19	2.87	1.3	2.89

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	19	1.76	0.48	1.79
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	19	1.76	0.48	1.79
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	19	1.76	0.48	1.79
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	19	1.28	0.66	1.45
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	19	0.8	0.29	0.77
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	19	0.8	0.29	0.77
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	19	0.8	0.29	0.77
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	19	0.8	0.29	0.77
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	19	0.8	0.29	0.77
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	19	0.8	0.29	0.77
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	19	0.8	0.29	0.77
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	19	0.8	0.29	0.77
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	19	0.8	0.29	0.77
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	19	0.76	0.26	0.79
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	19	0.66	0.26	0.64
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	19	0.53	0.22	0.57
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	19	0.53	0.22	0.57
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	19	0.51	0.27	0.45
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	19	0.51	0.27	0.45
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	19	0.5	0.16	0.5
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	19	0.5	0.16	0.5
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	19	0.46	0.15	0.46
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	19	0.42	0.18	0.37
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	19	0.39	0.12	0.43
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	19	0.39	0.12	0.43
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	19	0.34	0.12	0.34
(3,25)	1:108:A:LEU:H	4:333:A:PX4:C35	18	3.74	2.69	3.81
(3,25)	1:108:A:LEU:H	4:355:A:PX4:C35	18	3.74	2.69	3.81
(3,25)	1:108:A:LEU:H	4:325:A:PX4:C35	18	3.74	2.69	3.81
(3,25)	1:108:A:LEU:H	4:339:A:PX4:C35	18	3.74	2.69	3.81
(3,25)	1:108:A:LEU:H	4:363:A:PX4:C35	18	3.74	2.69	3.81
(3,25)	1:108:A:LEU:H	4:331:A:PX4:C35	18	3.74	2.69	3.81
(3,25)	1:108:A:LEU:H	4:313:A:PX4:C35	18	3.74	2.69	3.81
(3,25)	1:108:A:LEU:H	4:349:A:PX4:C35	18	3.74	2.69	3.81
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	18	2.86	1.29	3.14
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	18	2.03	0.78	2.1
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	18	2.03	0.78	2.1
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	18	1.65	0.16	1.65
(3,16)	1:153:A:GLY:H	4:331:A:PX4:C27	18	1.61	0.61	1.6
(3,16)	1:153:A:GLY:H	4:355:A:PX4:C27	18	1.61	0.61	1.6
(3,16)	1:153:A:GLY:H	4:323:A:PX4:C27	18	1.61	0.61	1.6
(3,16)	1:153:A:GLY:H	4:321:A:PX4:C27	18	1.61	0.61	1.6

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	18	1.38	0.63	1.52
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	18	0.99	0.5	0.95
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	18	0.78	0.44	0.62
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	18	0.73	0.26	0.72
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	18	0.73	0.26	0.72
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	18	0.73	0.26	0.72
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	18	0.26	0.09	0.26
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	18	0.26	0.09	0.26
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	17	2.09	0.46	2.19
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	17	2.09	0.46	2.19
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	17	1.72	1.24	1.35
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	17	1.72	1.24	1.35
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	17	1.72	1.24	1.35
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	17	1.12	0.58	1.07
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	17	1.0	0.67	0.92
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	17	0.73	0.61	0.58
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	17	0.73	0.61	0.58
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	17	0.7	0.29	0.65
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	17	0.7	0.29	0.65
(2,507)	1:199:A:SER:H	1:202:A:MET:H	17	0.62	0.26	0.55
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	17	0.37	0.22	0.37
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	17	0.37	0.22	0.37
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	17	0.37	0.22	0.37
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	17	0.35	0.11	0.34
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	17	0.14	0.03	0.13
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	17	0.14	0.03	0.13
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	17	0.14	0.03	0.13
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	17	0.14	0.03	0.13
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	17	0.14	0.03	0.13
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	17	0.14	0.03	0.13
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	16	2.01	1.01	2.44
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	16	1.84	1.26	1.6
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	16	1.08	0.41	1.08
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	16	1.08	0.41	1.08
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	16	0.2	0.06	0.21
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	15	2.02	1.08	1.96
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	15	2.02	1.08	1.96
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	15	2.02	1.08	1.96
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	15	0.75	0.42	0.7
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	15	0.7	0.3	0.59
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	15	0.63	0.34	0.6
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	15	0.6	0.18	0.65

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	15	0.56	0.34	0.53
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	15	0.51	0.23	0.49
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	15	0.42	0.2	0.44
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	15	0.42	0.2	0.44
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	15	0.42	0.2	0.44
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	15	0.37	0.19	0.34
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	15	0.34	0.22	0.27
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	15	0.34	0.22	0.27
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	15	0.34	0.22	0.27
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	15	0.3	0.18	0.25
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	15	0.3	0.18	0.25
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	15	0.3	0.18	0.25
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	15	0.24	0.09	0.21
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	15	0.2	0.07	0.2
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	15	0.13	0.03	0.13
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	15	0.13	0.03	0.13
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	15	0.13	0.03	0.13
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	15	0.13	0.03	0.13
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	15	0.13	0.03	0.13
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	15	0.13	0.03	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	15	0.13	0.02	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	15	0.13	0.02	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	15	0.13	0.02	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	15	0.13	0.02	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	15	0.13	0.02	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	15	0.13	0.02	0.13
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	14	2.95	1.41	2.82
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	14	0.54	0.26	0.53
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	14	0.54	0.26	0.53
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	14	0.49	0.26	0.63
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	14	0.3	0.19	0.21
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	14	0.27	0.09	0.27
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	14	0.27	0.09	0.27
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	14	0.27	0.09	0.27
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	14	0.24	0.1	0.2
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	14	0.2	0.04	0.2
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	14	0.2	0.06	0.2
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	13	1.35	0.84	1.36
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	13	1.31	1.03	1.01
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	13	0.94	0.44	1.07
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	13	0.94	0.44	1.07
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	13	0.94	0.44	1.07

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	13	0.94	0.44	1.07
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	13	0.94	0.44	1.07
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	13	0.94	0.44	1.07
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	13	0.8	0.55	0.8
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	13	0.8	0.55	0.8
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	13	0.8	0.55	0.8
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	13	0.58	0.12	0.61
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	13	0.58	0.12	0.61
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	13	0.47	0.23	0.42
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	13	0.47	0.23	0.42
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	13	0.47	0.23	0.42
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	13	0.37	0.19	0.34
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	13	0.37	0.19	0.34
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	13	0.32	0.14	0.29
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	13	0.32	0.14	0.29
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	13	0.16	0.04	0.14
(3,36)	1:129:A:TRP:HE1	4:313:A:PX4:N1	12	2.24	1.3	1.88
(3,36)	1:129:A:TRP:HE1	4:306:A:PX4:N1	12	2.24	1.3	1.88
(3,36)	1:129:A:TRP:HE1	4:349:A:PX4:N1	12	2.24	1.3	1.88
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	12	1.49	0.47	1.56
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	12	1.49	0.47	1.56
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	12	1.49	0.47	1.56
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	12	1.49	0.47	1.56
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	12	1.49	0.47	1.56
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	12	1.49	0.47	1.56
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	12	1.2	0.86	1.2
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	12	1.05	0.75	0.97
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	12	0.63	0.28	0.63
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	12	0.42	0.17	0.38
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	12	0.38	0.09	0.42
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	12	0.31	0.14	0.28
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	12	0.28	0.12	0.28
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	12	0.23	0.1	0.2
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD22	11	2.39	0.94	1.99
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD23	11	2.39	0.94	1.99
(2,988)	1:129:A:TRP:HE1	4:306:A:PX4:C1	11	1.85	1.14	1.87
(2,988)	1:129:A:TRP:HE1	4:306:A:PX4:C2	11	1.85	1.14	1.87
(2,988)	1:129:A:TRP:HE1	4:313:A:PX4:C1	11	1.85	1.14	1.87
(2,988)	1:129:A:TRP:HE1	4:313:A:PX4:C2	11	1.85	1.14	1.87
(2,988)	1:129:A:TRP:HE1	4:349:A:PX4:C1	11	1.85	1.14	1.87
(2,871)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	11	1.38	0.92	1.52
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD22	11	0.85	0.38	0.95

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD23	11	0.85	0.38	0.95
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD22	11	0.64	0.38	0.5
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD23	11	0.64	0.38	0.5
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD11	11	0.55	0.25	0.61
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD12	11	0.55	0.25	0.61
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD13	11	0.55	0.25	0.61
(2,543)	1:210:A:ALA:H	1:213:A:TYR:H	11	0.48	0.24	0.48
(2,570)	1:226:A:LEU:H	1:226:A:LEU:HD21	11	0.35	0.19	0.38
(2,103)	1:39:A:LEU:H	1:37:A:ALA:H	11	0.23	0.05	0.21
(2,62)	1:50:A:ILE:HG12	1:50:A:ILE:H	11	0.21	0.07	0.2
(2,916)	1:71:A:ASP:H	1:72:A:VAL:HA	11	0.18	0.06	0.15
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG13	11	0.14	0.03	0.13
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG13	11	0.14	0.03	0.13
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG13	11	0.14	0.03	0.13
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG12	11	0.14	0.03	0.13
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG12	11	0.14	0.03	0.13
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG12	11	0.14	0.03	0.13
(2,773)	1:61:A:ILE:HD11	1:48:A:LEU:HD21	10	1.31	0.85	1.2
(2,748)	1:89:A:VAL:HG12	1:122:A:LEU:HD21	10	0.58	0.57	0.4
(2,369)	1:143:A:HIS:H	1:145:A:ASP:H	10	0.44	0.24	0.35
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG21	10	0.26	0.17	0.2
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG22	10	0.26	0.17	0.2
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG23	10	0.26	0.17	0.2
(2,680)	1:158:A:HIS:H	1:172:A:PHE:H	10	0.23	0.07	0.23
(3,30)	1:145:A:ASP:H	4:335:A:PX4:C35	9	2.31	1.76	2.53
(3,30)	1:145:A:ASP:H	4:331:A:PX4:C35	9	2.31	1.76	2.53
(3,30)	1:145:A:ASP:H	4:355:A:PX4:C35	9	2.31	1.76	2.53
(3,30)	1:145:A:ASP:H	4:347:A:PX4:C35	9	2.31	1.76	2.53
(2,982)	1:78:A:PHE:HD1	1:80:A:ASN:H	9	1.84	0.73	1.96
(3,28)	1:129:A:TRP:H	4:306:A:PX4:C35	9	1.38	0.87	1.36
(3,28)	1:129:A:TRP:H	4:345:A:PX4:C35	9	1.38	0.87	1.36
(3,28)	1:129:A:TRP:H	4:363:A:PX4:C35	9	1.38	0.87	1.36
(3,28)	1:129:A:TRP:H	4:361:A:PX4:C35	9	1.38	0.87	1.36
(3,28)	1:129:A:TRP:H	4:313:A:PX4:C35	9	1.38	0.87	1.36
(2,257)	1:112:A:ALA:H	1:189:A:LEU:HD21	9	1.07	0.68	1.12
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD22	9	0.91	0.6	0.96
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD23	9	0.91	0.6	0.96
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	9	0.53	0.11	0.56
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	9	0.53	0.11	0.56
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	9	0.53	0.11	0.56
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	9	0.53	0.11	0.56
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	9	0.53	0.11	0.56

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	9	0.53	0.11	0.56
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	9	0.53	0.11	0.56
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	9	0.53	0.11	0.56
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	9	0.53	0.11	0.56
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	9	0.53	0.11	0.56
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	9	0.53	0.11	0.56
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	9	0.53	0.11	0.56
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG13	9	0.46	0.24	0.51
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG12	9	0.46	0.24	0.51
(2,162)	1:125:A:ARG:H	1:89:A:VAL:H	9	0.4	0.22	0.34
(2,316)	1:125:A:ARG:H	1:89:A:VAL:H	9	0.4	0.22	0.34
(2,624)	1:11:A:GLN:H	1:8:A:SER:H	9	0.36	0.11	0.38
(2,693)	1:11:A:GLN:H	1:8:A:SER:H	9	0.36	0.11	0.38
(2,63)	1:52:A:GLY:H	1:51:A:THR:H	9	0.23	0.15	0.14
(2,8)	1:135:A:MET:H	1:92:A:ARG:H	9	0.22	0.08	0.2
(2,904)	1:67:A:CYS:H	1:67:A:CYS:HA	9	0.18	0.06	0.16
(2,324)	1:128:A:VAL:H	1:129:A:TRP:H	9	0.16	0.03	0.16
(2,326)	1:128:A:VAL:H	1:129:A:TRP:H	9	0.16	0.03	0.16
(2,935)	1:73:A:ALA:H	1:73:A:ALA:HA	9	0.14	0.03	0.13
(2,869)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	8	1.03	0.41	1.14
(2,775)	1:61:A:ILE:HD12	1:48:A:LEU:HD21	8	1.03	0.56	0.88
(2,746)	1:89:A:VAL:HG11	1:122:A:LEU:HD21	8	0.85	0.51	0.83
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG21	8	0.6	0.28	0.49
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG22	8	0.6	0.28	0.49
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG23	8	0.6	0.28	0.49
(2,504)	1:198:A:HIS:H	1:202:A:MET:H	8	0.38	0.2	0.32
(2,741)	1:114:A:ASN:H	1:113:A:LEU:HD21	8	0.37	0.08	0.36
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG13	8	0.31	0.09	0.28
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG12	8	0.31	0.09	0.28
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD11	8	0.3	0.1	0.32
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD12	8	0.3	0.1	0.32
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD13	8	0.3	0.1	0.32
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD11	8	0.29	0.16	0.26
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD12	8	0.29	0.16	0.26
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD13	8	0.29	0.16	0.26
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD11	8	0.29	0.16	0.26
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD12	8	0.29	0.16	0.26
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD13	8	0.29	0.16	0.26
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG11	8	0.15	0.05	0.14
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG12	8	0.15	0.05	0.14
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG13	8	0.15	0.05	0.14
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG21	8	0.15	0.05	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG22	8	0.15	0.05	0.14
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG23	8	0.15	0.05	0.14
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	7	1.58	0.78	1.79
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	7	1.58	0.78	1.79
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	7	1.58	0.78	1.79
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	7	1.58	0.78	1.79
(2,777)	1:61:A:ILE:HD13	1:48:A:LEU:HD21	7	0.99	0.48	1.03
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	7	0.57	0.42	0.37
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	7	0.57	0.42	0.37
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD22	7	0.46	0.28	0.3
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD23	7	0.46	0.28	0.3
(2,501)	1:198:A:HIS:H	1:195:A:ALA:H	7	0.24	0.1	0.21
(2,368)	1:151:A:GLY:H	1:150:A:ASP:H	7	0.24	0.05	0.25
(2,381)	1:151:A:GLY:H	1:150:A:ASP:H	7	0.24	0.05	0.25
(2,454)	1:178:A:TRP:HE1	1:178:A:TRP:H	7	0.23	0.06	0.23
(2,239)	1:108:A:LEU:H	1:108:A:LEU:HD21	7	0.22	0.13	0.17
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD22	6	1.23	0.54	1.17
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD23	6	1.23	0.54	1.17
(2,861)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	6	1.17	0.4	1.15
(2,321)	1:128:A:VAL:HG11	1:126:A:LYS:H	6	1.16	0.9	1.14
(2,321)	1:128:A:VAL:HG12	1:126:A:LYS:H	6	1.16	0.9	1.14
(2,321)	1:128:A:VAL:HG13	1:126:A:LYS:H	6	1.16	0.9	1.14
(2,750)	1:89:A:VAL:HG13	1:122:A:LEU:HD21	6	0.76	0.35	0.72
(2,857)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	6	0.61	0.65	0.34
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD11	6	0.57	0.3	0.64
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD12	6	0.57	0.3	0.64
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD13	6	0.57	0.3	0.64
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD11	6	0.57	0.3	0.64
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD12	6	0.57	0.3	0.64
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD13	6	0.57	0.3	0.64
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD11	6	0.57	0.3	0.64
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD12	6	0.57	0.3	0.64
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD13	6	0.57	0.3	0.64
(2,907)	1:68:A:GLY:H	1:69:A:VAL:H	6	0.36	0.24	0.29
(2,317)	1:125:A:ARG:H	1:91:A:TYR:H	6	0.32	0.16	0.3
(2,442)	1:175:A:ASP:H	1:178:A:TRP:HE1	6	0.31	0.13	0.34
(2,453)	1:178:A:TRP:HE1	1:175:A:ASP:H	6	0.31	0.13	0.34
(2,120)	1:66:A:ARG:H	1:156:A:LEU:H	6	0.31	0.11	0.3
(2,388)	1:66:A:ARG:H	1:156:A:LEU:H	6	0.31	0.11	0.3
(2,14)	1:159:A:ALA:H	1:171:A:HIS:H	6	0.19	0.04	0.2
(2,949)	1:74:A:GLU:H	1:75:A:TYR:H	6	0.18	0.05	0.18
(2,683)	1:179:A:THR:HG21	1:185:A:GLY:H	6	0.18	0.03	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,683)	1:179:A:THR:HG22	1:185:A:GLY:H	6	0.18	0.03	0.17
(2,683)	1:179:A:THR:HG23	1:185:A:GLY:H	6	0.18	0.03	0.17
(2,385)	1:157:A:ALA:H	1:156:A:LEU:H	6	0.18	0.04	0.18
(2,391)	1:157:A:ALA:H	1:156:A:LEU:H	6	0.18	0.04	0.18
(3,24)	1:106:A:ASP:H	4:355:A:PX4:C35	5	2.43	1.35	2.66
(3,24)	1:106:A:ASP:H	4:333:A:PX4:C35	5	2.43	1.35	2.66
(3,24)	1:106:A:ASP:H	4:339:A:PX4:C35	5	2.43	1.35	2.66
(3,22)	1:100:A:LEU:CD2	4:355:A:PX4:C35	5	1.71	1.08	1.2
(3,22)	1:100:A:LEU:CD2	4:325:A:PX4:C35	5	1.71	1.08	1.2
(3,22)	1:100:A:LEU:CD2	4:333:A:PX4:C35	5	1.71	1.08	1.2
(3,22)	1:100:A:LEU:CD2	4:349:A:PX4:C35	5	1.71	1.08	1.2
(2,872)	1:186:A:ILE:HD13	1:156:A:LEU:HD22	5	1.31	0.63	0.9
(2,872)	1:186:A:ILE:HD13	1:156:A:LEU:HD23	5	1.31	0.63	0.9
(2,671)	1:66:A:ARG:H	1:156:A:LEU:HD21	5	0.92	0.75	0.55
(2,868)	1:186:A:ILE:HD11	1:156:A:LEU:HD22	5	0.85	1.06	0.33
(2,868)	1:186:A:ILE:HD11	1:156:A:LEU:HD23	5	0.85	1.06	0.33
(2,953)	1:74:A:GLU:HB3	1:76:A:SER:H	5	0.28	0.07	0.31
(2,953)	1:74:A:GLU:HB3	1:76:A:SER:H	5	0.28	0.07	0.31
(2,275)	1:116:A:TRP:HE1	1:196:A:LEU:H	5	0.28	0.09	0.31
(2,489)	1:116:A:TRP:HE1	1:196:A:LEU:H	5	0.28	0.09	0.31
(2,13)	1:135:A:MET:H	1:170:A:ALA:H	5	0.23	0.18	0.14
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG11	5	0.22	0.07	0.19
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG12	5	0.22	0.07	0.19
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG13	5	0.22	0.07	0.19
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG11	5	0.22	0.07	0.19
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG12	5	0.22	0.07	0.19
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG13	5	0.22	0.07	0.19
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG11	5	0.22	0.07	0.19
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG12	5	0.22	0.07	0.19
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG13	5	0.22	0.07	0.19
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG11	5	0.22	0.07	0.19
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG12	5	0.22	0.07	0.19
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG13	5	0.22	0.07	0.19
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG11	5	0.22	0.07	0.19
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG12	5	0.22	0.07	0.19
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG13	5	0.22	0.07	0.19
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG11	5	0.22	0.07	0.19
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG12	5	0.22	0.07	0.19
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG13	5	0.22	0.07	0.19
(2,64)	1:52:A:GLY:H	1:53:A:MET:H	5	0.21	0.1	0.16
(2,67)	1:53:A:MET:H	1:52:A:GLY:H	5	0.21	0.1	0.16
(2,82)	1:58:A:VAL:H	1:48:A:LEU:HD21	4	2.45	0.41	2.28

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,29)	1:129:A:TRP:HE1	4:361:A:PX4:C35	4	1.38	0.97	1.12
(3,29)	1:129:A:TRP:HE1	4:329:A:PX4:C35	4	1.38	0.97	1.12
(3,29)	1:129:A:TRP:HE1	4:345:A:PX4:C35	4	1.38	0.97	1.12
(3,29)	1:129:A:TRP:HE1	4:306:A:PX4:C35	4	1.38	0.97	1.12
(2,842)	1:200:A:LEU:HD21	1:122:A:LEU:HD21	4	1.27	0.71	1.0
(2,730)	1:211:A:VAL:HG12	1:226:A:LEU:HD22	4	1.18	0.61	1.1
(2,730)	1:211:A:VAL:HG12	1:226:A:LEU:HD23	4	1.18	0.61	1.1
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG11	4	0.71	0.34	0.76
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG12	4	0.71	0.34	0.76
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG13	4	0.71	0.34	0.76
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG11	4	0.71	0.34	0.76
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG12	4	0.71	0.34	0.76
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG13	4	0.71	0.34	0.76
(2,870)	1:186:A:ILE:HD12	1:156:A:LEU:HD22	4	0.68	0.56	0.52
(2,870)	1:186:A:ILE:HD12	1:156:A:LEU:HD23	4	0.68	0.56	0.52
(2,733)	1:196:A:LEU:HD21	1:113:A:LEU:HD21	4	0.56	0.38	0.38
(2,125)	1:157:A:ALA:H	1:68:A:GLY:H	4	0.52	0.26	0.5
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD11	4	0.4	0.31	0.29
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD12	4	0.4	0.31	0.29
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD13	4	0.4	0.31	0.29
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD11	4	0.4	0.31	0.29
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD12	4	0.4	0.31	0.29
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD13	4	0.4	0.31	0.29
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD11	4	0.4	0.31	0.29
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD12	4	0.4	0.31	0.29
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD13	4	0.4	0.31	0.29
(2,265)	1:113:A:LEU:H	1:196:A:LEU:HD22	4	0.38	0.12	0.38
(2,265)	1:113:A:LEU:H	1:196:A:LEU:HD23	4	0.38	0.12	0.38
(2,305)	1:123:A:HIS:H	1:122:A:LEU:HD21	4	0.34	0.22	0.28
(2,859)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	4	0.34	0.14	0.31
(2,445)	1:178:A:TRP:HE1	1:176:A:GLU:H	4	0.32	0.15	0.28
(2,456)	1:178:A:TRP:HE1	1:176:A:GLU:H	4	0.32	0.15	0.28
(2,380)	1:10:A:LEU:H	1:10:A:LEU:HD22	4	0.31	0.09	0.34
(2,380)	1:10:A:LEU:H	1:10:A:LEU:HD23	4	0.31	0.09	0.34
(2,500)	1:116:A:TRP:HE1	1:198:A:HIS:H	4	0.28	0.07	0.29
(2,274)	1:116:A:TRP:HE1	1:197:A:GLY:H	4	0.25	0.07	0.24
(2,533)	1:23:A:TYR:H	1:24:A:LEU:H	4	0.18	0.04	0.16
(2,558)	1:23:A:TYR:H	1:24:A:LEU:H	4	0.18	0.04	0.16
(2,215)	1:103:A:ILE:H	1:103:A:ILE:HG13	4	0.17	0.05	0.15
(2,215)	1:103:A:ILE:H	1:103:A:ILE:HG12	4	0.17	0.05	0.15
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG21	4	0.14	0.05	0.12
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG22	4	0.14	0.05	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG23	4	0.14	0.05	0.12
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG11	4	0.14	0.05	0.12
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG12	4	0.14	0.05	0.12
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG13	4	0.14	0.05	0.12
(2,83)	1:58:A:VAL:H	1:48:A:LEU:HD22	3	1.3	0.39	1.39
(2,83)	1:58:A:VAL:H	1:48:A:LEU:HD23	3	1.3	0.39	1.39
(2,774)	1:61:A:ILE:HD11	1:48:A:LEU:HD22	3	1.13	0.12	1.08
(2,774)	1:61:A:ILE:HD11	1:48:A:LEU:HD23	3	1.13	0.12	1.08
(2,844)	1:200:A:LEU:HD22	1:122:A:LEU:HD21	3	1.06	0.75	0.72
(2,846)	1:200:A:LEU:HD23	1:122:A:LEU:HD21	3	0.96	0.22	1.11
(2,735)	1:196:A:LEU:HD22	1:113:A:LEU:HD21	3	0.79	0.23	0.82
(2,718)	1:54:A:LEU:HD11	1:59:A:ILE:HD11	3	0.71	0.16	0.68
(2,718)	1:54:A:LEU:HD11	1:59:A:ILE:HD12	3	0.71	0.16	0.68
(2,718)	1:54:A:LEU:HD11	1:59:A:ILE:HD13	3	0.71	0.16	0.68
(2,718)	1:54:A:LEU:HD12	1:59:A:ILE:HD11	3	0.71	0.16	0.68
(2,718)	1:54:A:LEU:HD12	1:59:A:ILE:HD12	3	0.71	0.16	0.68
(2,718)	1:54:A:LEU:HD12	1:59:A:ILE:HD13	3	0.71	0.16	0.68
(2,718)	1:54:A:LEU:HD13	1:59:A:ILE:HD11	3	0.71	0.16	0.68
(2,718)	1:54:A:LEU:HD13	1:59:A:ILE:HD12	3	0.71	0.16	0.68
(2,718)	1:54:A:LEU:HD13	1:59:A:ILE:HD13	3	0.71	0.16	0.68
(2,737)	1:196:A:LEU:HD23	1:113:A:LEU:HD21	3	0.63	0.33	0.86
(2,634)	1:54:A:LEU:HD11	1:12:A:TRP:HE1	3	0.56	0.15	0.45
(2,634)	1:54:A:LEU:HD12	1:12:A:TRP:HE1	3	0.56	0.15	0.45
(2,634)	1:54:A:LEU:HD13	1:12:A:TRP:HE1	3	0.56	0.15	0.45
(2,258)	1:112:A:ALA:H	1:189:A:LEU:HD22	3	0.46	0.26	0.44
(2,258)	1:112:A:ALA:H	1:189:A:LEU:HD23	3	0.46	0.26	0.44
(2,788)	1:58:A:VAL:HG11	1:39:A:LEU:HD21	3	0.46	0.26	0.29
(2,894)	1:64:A:LYS:H	1:64:A:LYS:HG3	3	0.36	0.32	0.16
(2,894)	1:64:A:LYS:H	1:64:A:LYS:HG3	3	0.36	0.32	0.16
(2,71)	1:55:A:ASN:H	1:54:A:LEU:HD21	3	0.35	0.15	0.27
(2,920)	1:72:A:VAL:H	1:71:A:ASP:H	3	0.34	0.33	0.11
(2,920)	1:72:A:VAL:H	1:71:A:ASP:H	3	0.34	0.33	0.11
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB3	3	0.34	0.08	0.36
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB2	3	0.34	0.08	0.36
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB3	3	0.34	0.08	0.36
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB2	3	0.34	0.08	0.36
(2,503)	1:198:A:HIS:H	1:201:A:GLY:H	3	0.31	0.09	0.26
(2,716)	1:54:A:LEU:HD11	1:58:A:VAL:HG11	3	0.26	0.12	0.18
(2,716)	1:54:A:LEU:HD11	1:58:A:VAL:HG12	3	0.26	0.12	0.18
(2,716)	1:54:A:LEU:HD11	1:58:A:VAL:HG13	3	0.26	0.12	0.18
(2,716)	1:54:A:LEU:HD12	1:58:A:VAL:HG11	3	0.26	0.12	0.18
(2,716)	1:54:A:LEU:HD12	1:58:A:VAL:HG12	3	0.26	0.12	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,716)	1:54:A:LEU:HD12	1:58:A:VAL:HG13	3	0.26	0.12	0.18
(2,716)	1:54:A:LEU:HD13	1:58:A:VAL:HG11	3	0.26	0.12	0.18
(2,716)	1:54:A:LEU:HD13	1:58:A:VAL:HG12	3	0.26	0.12	0.18
(2,716)	1:54:A:LEU:HD13	1:58:A:VAL:HG13	3	0.26	0.12	0.18
(2,301)	1:120:A:ILE:HD11	1:122:A:LEU:H	3	0.22	0.05	0.26
(2,301)	1:120:A:ILE:HD12	1:122:A:LEU:H	3	0.22	0.05	0.26
(2,301)	1:120:A:ILE:HD13	1:122:A:LEU:H	3	0.22	0.05	0.26
(2,764)	1:120:A:ILE:HD11	1:122:A:LEU:H	3	0.22	0.05	0.26
(2,764)	1:120:A:ILE:HD12	1:122:A:LEU:H	3	0.22	0.05	0.26
(2,764)	1:120:A:ILE:HD13	1:122:A:LEU:H	3	0.22	0.05	0.26
(2,564)	1:231:A:ILE:H	1:231:A:ILE:HG13	3	0.21	0.04	0.23
(2,564)	1:231:A:ILE:H	1:231:A:ILE:HG12	3	0.21	0.04	0.23
(2,462)	1:182:A:SER:H	1:181:A:GLY:H	3	0.19	0.05	0.2
(2,462)	1:182:A:SER:H	1:181:A:GLY:H	3	0.19	0.05	0.2
(2,677)	1:125:A:ARG:H	1:90:A:THR:H	3	0.18	0.05	0.2
(2,539)	1:206:A:SER:H	1:207:A:ASP:H	3	0.17	0.03	0.19
(2,539)	1:206:A:SER:H	1:207:A:ASP:H	3	0.17	0.03	0.19
(2,235)	1:104:A:THR:H	1:107:A:ARG:H	3	0.17	0.04	0.18
(2,889)	1:63:A:GLN:HA	1:63:A:GLN:H	3	0.16	0.03	0.16
(1,11)	3:303:A:ZN:ZN	1:145:A:ASP:OD2	3	0.16	0.04	0.17
(2,17)	1:93:A:ILE:H	1:93:A:ILE:HD11	3	0.15	0.03	0.16
(2,17)	1:93:A:ILE:H	1:93:A:ILE:HD12	3	0.15	0.03	0.16
(2,17)	1:93:A:ILE:H	1:93:A:ILE:HD13	3	0.15	0.03	0.16
(2,801)	1:93:A:ILE:H	1:93:A:ILE:HD11	3	0.15	0.03	0.16
(2,801)	1:93:A:ILE:H	1:93:A:ILE:HD12	3	0.15	0.03	0.16
(2,801)	1:93:A:ILE:H	1:93:A:ILE:HD13	3	0.15	0.03	0.16
(2,938)	1:73:A:ALA:HA	1:74:A:GLU:H	3	0.13	0.02	0.11
(2,404)	1:161:A:ALA:H	1:161:A:ALA:HB1	3	0.12	0.02	0.11
(2,404)	1:161:A:ALA:H	1:161:A:ALA:HB2	3	0.12	0.02	0.11
(2,404)	1:161:A:ALA:H	1:161:A:ALA:HB3	3	0.12	0.02	0.11
(3,27)	1:128:A:VAL:CG2	4:345:A:PX4:C35	2	1.54	0.2	1.54
(3,27)	1:128:A:VAL:CG2	4:306:A:PX4:C35	2	1.54	0.2	1.54
(2,725)	1:113:A:LEU:HD13	1:196:A:LEU:HD21	2	0.77	0.35	0.77
(2,971)	1:77:A:LEU:HB3	1:78:A:PHE:H	2	0.65	0.48	0.65
(2,971)	1:77:A:LEU:HB3	1:78:A:PHE:H	2	0.65	0.48	0.65
(2,708)	1:226:A:LEU:HD11	1:231:A:ILE:HG13	2	0.62	0.36	0.62
(2,708)	1:226:A:LEU:HD12	1:231:A:ILE:HG13	2	0.62	0.36	0.62
(2,708)	1:226:A:LEU:HD13	1:231:A:ILE:HG13	2	0.62	0.36	0.62
(2,708)	1:226:A:LEU:HD11	1:231:A:ILE:HG12	2	0.62	0.36	0.62
(2,708)	1:226:A:LEU:HD12	1:231:A:ILE:HG12	2	0.62	0.36	0.62
(2,708)	1:226:A:LEU:HD13	1:231:A:ILE:HG12	2	0.62	0.36	0.62
(2,278)	1:116:A:TRP:HE1	1:211:A:VAL:HG11	2	0.42	0.2	0.42

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,278)	1:116:A:TRP:HE1	1:211:A:VAL:HG12	2	0.42	0.2	0.42
(2,278)	1:116:A:TRP:HE1	1:211:A:VAL:HG13	2	0.42	0.2	0.42
(2,410)	1:167:A:GLY:H	1:165:A:GLY:H	2	0.37	0.06	0.37
(2,966)	1:77:A:LEU:H	1:77:A:LEU:HB3	2	0.34	0.07	0.34
(2,966)	1:77:A:LEU:H	1:77:A:LEU:HB3	2	0.34	0.07	0.34
(2,302)	1:120:A:ILE:HG21	1:122:A:LEU:H	2	0.33	0.04	0.33
(2,302)	1:120:A:ILE:HG22	1:122:A:LEU:H	2	0.33	0.04	0.33
(2,302)	1:120:A:ILE:HG23	1:122:A:LEU:H	2	0.33	0.04	0.33
(2,776)	1:61:A:ILE:HD12	1:48:A:LEU:HD22	2	0.32	0.12	0.32
(2,776)	1:61:A:ILE:HD12	1:48:A:LEU:HD23	2	0.32	0.12	0.32
(2,378)	1:10:A:LEU:H	1:10:A:LEU:HD11	2	0.31	0.04	0.31
(2,378)	1:10:A:LEU:H	1:10:A:LEU:HD12	2	0.31	0.04	0.31
(2,378)	1:10:A:LEU:H	1:10:A:LEU:HD13	2	0.31	0.04	0.31
(2,843)	1:200:A:LEU:HD21	1:122:A:LEU:HD22	2	0.29	0.16	0.29
(2,843)	1:200:A:LEU:HD21	1:122:A:LEU:HD23	2	0.29	0.16	0.29
(2,672)	1:66:A:ARG:H	1:156:A:LEU:HD22	2	0.27	0.09	0.27
(2,672)	1:66:A:ARG:H	1:156:A:LEU:HD23	2	0.27	0.09	0.27
(2,397)	1:169:A:ASP:H	1:160:A:PHE:H	2	0.23	0.07	0.23
(2,587)	1:232:A:LYS:H	1:231:A:ILE:HD11	2	0.2	0.09	0.2
(2,587)	1:232:A:LYS:H	1:231:A:ILE:HD12	2	0.2	0.09	0.2
(2,587)	1:232:A:LYS:H	1:231:A:ILE:HD13	2	0.2	0.09	0.2
(2,568)	1:235:A:GLN:H	1:233:A:GLY:H	2	0.2	0.09	0.2
(2,499)	1:197:A:GLY:H	1:198:A:HIS:H	2	0.19	0.06	0.19
(2,499)	1:197:A:GLY:H	1:198:A:HIS:H	2	0.19	0.06	0.19
(2,918)	1:72:A:VAL:H	1:70:A:PRO:HB3	2	0.19	0.09	0.19
(2,918)	1:72:A:VAL:H	1:70:A:PRO:HB2	2	0.19	0.09	0.19
(2,918)	1:72:A:VAL:H	1:70:A:PRO:HB3	2	0.19	0.09	0.19
(2,918)	1:72:A:VAL:H	1:70:A:PRO:HB2	2	0.19	0.09	0.19
(2,901)	1:66:A:ARG:H	1:66:A:ARG:HB3	2	0.18	0.06	0.18
(2,901)	1:66:A:ARG:H	1:66:A:ARG:HB3	2	0.18	0.06	0.18
(2,887)	1:134:A:ILE:HD11	1:134:A:ILE:HG21	2	0.18	0.02	0.18
(2,887)	1:134:A:ILE:HD11	1:134:A:ILE:HG22	2	0.18	0.02	0.18
(2,887)	1:134:A:ILE:HD11	1:134:A:ILE:HG23	2	0.18	0.02	0.18
(2,887)	1:134:A:ILE:HD12	1:134:A:ILE:HG21	2	0.18	0.02	0.18
(2,887)	1:134:A:ILE:HD12	1:134:A:ILE:HG22	2	0.18	0.02	0.18
(2,887)	1:134:A:ILE:HD12	1:134:A:ILE:HG23	2	0.18	0.02	0.18
(2,887)	1:134:A:ILE:HD13	1:134:A:ILE:HG21	2	0.18	0.02	0.18
(2,887)	1:134:A:ILE:HD13	1:134:A:ILE:HG22	2	0.18	0.02	0.18
(2,887)	1:134:A:ILE:HD13	1:134:A:ILE:HG23	2	0.18	0.02	0.18
(2,670)	1:66:A:ARG:H	1:156:A:LEU:HD11	2	0.17	0.03	0.17
(2,670)	1:66:A:ARG:H	1:156:A:LEU:HD12	2	0.17	0.03	0.17
(2,670)	1:66:A:ARG:H	1:156:A:LEU:HD13	2	0.17	0.03	0.17

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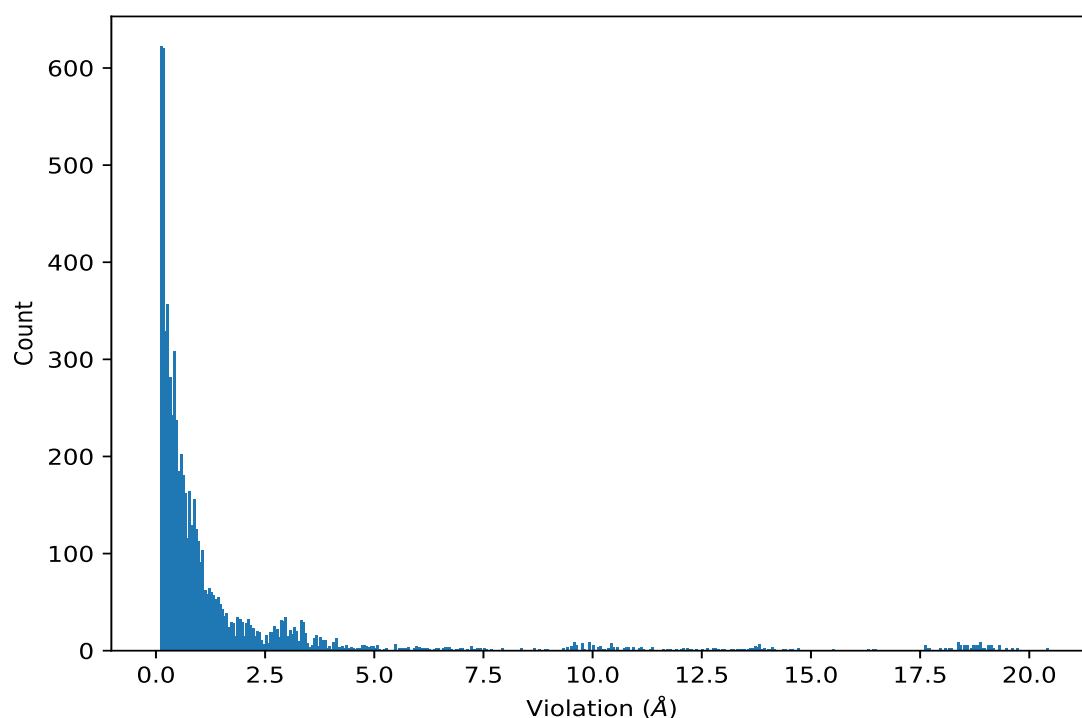
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,632)	1:25:A:TYR:H	1:24:A:LEU:HD21	2	0.16	0.04	0.16
(2,353)	1:136:A:ILE:H	1:136:A:ILE:HD11	2	0.16	0.02	0.16
(2,353)	1:136:A:ILE:H	1:136:A:ILE:HD12	2	0.16	0.02	0.16
(2,353)	1:136:A:ILE:H	1:136:A:ILE:HD13	2	0.16	0.02	0.16
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG11	2	0.16	0.05	0.16
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG12	2	0.16	0.05	0.16
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG13	2	0.16	0.05	0.16
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG21	2	0.16	0.05	0.16
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG22	2	0.16	0.05	0.16
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG23	2	0.16	0.05	0.16
(2,602)	1:237:A:LEU:H	1:239:A:GLY:H	2	0.16	0.05	0.16
(2,36)	1:46:A:PHE:H	1:43:A:GLN:H	2	0.16	0.04	0.16
(2,157)	1:88:A:VAL:H	1:123:A:HIS:H	2	0.16	0.05	0.16
(2,767)	1:61:A:ILE:HD11	1:60:A:GLU:H	2	0.14	0.03	0.14
(2,767)	1:61:A:ILE:HD12	1:60:A:GLU:H	2	0.14	0.03	0.14
(2,767)	1:61:A:ILE:HD13	1:60:A:GLU:H	2	0.14	0.03	0.14
(2,623)	1:6:A:GLY:H	1:7:A:MET:H	2	0.14	0.01	0.14
(2,179)	1:92:A:ARG:H	1:134:A:ILE:HD11	2	0.12	0.01	0.12
(2,179)	1:92:A:ARG:H	1:134:A:ILE:HD12	2	0.12	0.01	0.12
(2,179)	1:92:A:ARG:H	1:134:A:ILE:HD13	2	0.12	0.01	0.12
(2,200)	1:99:A:ASP:H	1:98:A:ARG:H	2	0.11	0.01	0.11
(2,203)	1:99:A:ASP:H	1:98:A:ARG:H	2	0.11	0.01	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

9.5.1 Histogram : Distribution of distance violations [i](#)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.



9.5.2 Table : All distance violations [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	16	20.41
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	16	20.41
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	16	20.41
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	12	19.71
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	12	19.71
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	12	19.71
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	11	19.63
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	11	19.63
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	11	19.63
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	7	19.47
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	7	19.47
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	7	19.47
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	17	19.34
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	17	19.34
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	17	19.34
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	14	19.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	14	19.31
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	14	19.31
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	18	19.15
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	18	19.15
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	18	19.15
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	11	19.12
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	11	19.12
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	11	19.12
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	4	19.12
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	4	19.12
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	4	19.12
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	19	19.06
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	19	19.06
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	19	19.06
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	20	19.06
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	20	19.06
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	20	19.06
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	3	18.95
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	3	18.95
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	3	18.95
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	9	18.94
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	9	18.94
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	9	18.94
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	10	18.87
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	10	18.87
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	10	18.87
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	19	18.86
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	19	18.86
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	19	18.86
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	1	18.85
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	1	18.85
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	1	18.85
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	13	18.84
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	13	18.84
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	13	18.84
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	6	18.8
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	6	18.8
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	6	18.8
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	4	18.79
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	4	18.79
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	4	18.79
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	7	18.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	7	18.75
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	7	18.75
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	6	18.74
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	6	18.74
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	6	18.74
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	17	18.73
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	17	18.73
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	17	18.73
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	3	18.68
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	3	18.68
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	3	18.68
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	5	18.57
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	5	18.57
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	5	18.57
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	13	18.56
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	13	18.56
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	13	18.56
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	15	18.53
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	15	18.53
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	15	18.53
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	8	18.51
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	8	18.51
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	8	18.51
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	12	18.44
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	12	18.44
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	12	18.44
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	5	18.4
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	5	18.4
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	5	18.4
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	9	18.38
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	9	18.38
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	9	18.38
(2,210)	1:105:A:VAL:HG21	1:237:A:LEU:H	2	18.36
(2,210)	1:105:A:VAL:HG22	1:237:A:LEU:H	2	18.36
(2,210)	1:105:A:VAL:HG23	1:237:A:LEU:H	2	18.36
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	10	18.35
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	10	18.35
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	10	18.35
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	2	18.23
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	2	18.23
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	2	18.23
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	8	18.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	8	18.15
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	8	18.15
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	15	18.07
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	15	18.07
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	15	18.07
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	1	17.96
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	1	17.96
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	1	17.96
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	20	17.74
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	20	17.74
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	20	17.74
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	14	17.69
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	14	17.69
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	14	17.69
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	18	17.64
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	18	17.64
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	18	17.64
(2,211)	1:120:A:ILE:HD11	1:100:A:LEU:H	16	17.6
(2,211)	1:120:A:ILE:HD12	1:100:A:LEU:H	16	17.6
(2,211)	1:120:A:ILE:HD13	1:100:A:LEU:H	16	17.6
(3,21)	1:77:A:LEU:H	4:355:A:PX4:C35	9	17.43
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	7	17.35
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	2	16.92
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	14	16.89
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	10	16.75
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	1	16.72
(3,35)	1:194:A:HIS:H	4:355:A:PX4:C35	3	16.66
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	8	16.62
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	19	16.58
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	5	16.54
(3,21)	1:77:A:LEU:H	4:329:A:PX4:C35	18	16.49
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	12	16.48
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	6	16.44
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	4	16.4
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	11	16.34
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	15	16.33
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	13	16.26
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	3	15.85
(3,21)	1:77:A:LEU:H	4:335:A:PX4:C35	1	15.53
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	17	15.5
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	9	15.48
(3,35)	1:194:A:HIS:H	4:331:A:PX4:C35	15	15.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,21)	1:77:A:LEU:H	4:345:A:PX4:C35	20	15.27
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	3	15.17
(3,35)	1:194:A:HIS:H	4:355:A:PX4:C35	10	15.1
(3,21)	1:77:A:LEU:H	4:347:A:PX4:C35	8	14.86
(3,33)	1:155:A:THR:H	4:331:A:PX4:C35	5	14.73
(3,21)	1:77:A:LEU:H	4:351:A:PX4:C35	7	14.73
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	9	14.73
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	15	14.68
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	6	14.58
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	18	14.55
(3,33)	1:155:A:THR:H	4:331:A:PX4:C35	17	14.54
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	10	14.52
(3,21)	1:77:A:LEU:H	4:337:A:PX4:C35	14	14.43
(3,35)	1:194:A:HIS:H	4:355:A:PX4:C35	5	14.42
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	13	14.38
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	20	14.36
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	1	14.26
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	8	14.22
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	4	14.18
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	7	14.17
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	9	14.13
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	1	14.13
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	12	14.1
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	16	14.1
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	11	14.08
(3,33)	1:155:A:THR:H	4:333:A:PX4:C35	18	14.05
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	20	14.03
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	6	14.01
(3,32)	1:154:A:ASN:ND2	4:353:A:PX4:C35	7	13.93
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	18	13.93
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	7	13.91
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	5	13.89
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	7	13.86
(3,35)	1:194:A:HIS:H	4:355:A:PX4:C35	4	13.84
(3,33)	1:155:A:THR:H	4:355:A:PX4:C35	7	13.84
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	18	13.84
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	14	13.82
(3,33)	1:155:A:THR:H	4:355:A:PX4:C35	4	13.8
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	16	13.8
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	4	13.8
(3,35)	1:194:A:HIS:H	4:331:A:PX4:C35	14	13.79
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	16	13.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	2	13.77
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	15	13.76
(2,111)	1:11:A:GLN:H	1:26:A:ASP:H	20	13.74
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	10	13.73
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	19	13.72
(3,6)	1:78:A:PHE:H	4:347:A:PX4:C27	7	13.71
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	19	13.7
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	10	13.69
(3,32)	1:154:A:ASN:ND2	4:355:A:PX4:C35	1	13.66
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	17	13.65
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	11	13.64
(2,386)	1:156:A:LEU:H	1:182:A:SER:H	17	13.63
(3,21)	1:77:A:LEU:H	4:351:A:PX4:C35	13	13.62
(3,33)	1:155:A:THR:H	4:355:A:PX4:C35	1	13.56
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	8	13.55
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	1	13.47
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	2	13.45
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	13	13.44
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	6	13.4
(3,35)	1:194:A:HIS:H	4:347:A:PX4:C35	2	13.39
(3,33)	1:155:A:THR:H	4:335:A:PX4:C35	15	13.38
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	12	13.34
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	15	13.33
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	12	13.25
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	5	13.23
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	3	13.21
(3,32)	1:154:A:ASN:ND2	4:329:A:PX4:C35	16	13.16
(3,6)	1:78:A:PHE:H	4:329:A:PX4:C27	20	13.16
(3,21)	1:77:A:LEU:H	4:351:A:PX4:C35	19	13.01
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	4	13.01
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	14	12.98
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	13	12.97
(3,33)	1:155:A:THR:H	4:321:A:PX4:C35	10	12.93
(3,35)	1:194:A:HIS:H	4:331:A:PX4:C35	13	12.88
(3,21)	1:77:A:LEU:H	4:335:A:PX4:C35	6	12.85
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	11	12.84
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	18	12.84
(3,35)	1:194:A:HIS:H	4:333:A:PX4:C35	1	12.8
(3,34)	1:193:A:THR:H	4:355:A:PX4:C35	3	12.76
(3,21)	1:77:A:LEU:H	4:335:A:PX4:C35	5	12.76
(3,34)	1:193:A:THR:H	4:331:A:PX4:C35	15	12.75
(3,21)	1:77:A:LEU:H	4:333:A:PX4:C35	12	12.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:78:A:PHE:H	4:331:A:PX4:C27	13	12.69
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	5	12.62
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	9	12.62
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	3	12.6
(3,33)	1:155:A:THR:H	4:329:A:PX4:C35	16	12.58
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	2	12.53
(3,33)	1:155:A:THR:H	4:353:A:PX4:C35	3	12.51
(3,21)	1:77:A:LEU:H	4:335:A:PX4:C35	3	12.46
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	8	12.4
(3,33)	1:155:A:THR:H	4:321:A:PX4:C35	20	12.37
(3,32)	1:154:A:ASN:ND2	4:321:A:PX4:C35	4	12.36
(3,33)	1:155:A:THR:H	4:331:A:PX4:C35	13	12.3
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	14	12.29
(3,35)	1:194:A:HIS:H	4:339:A:PX4:C35	7	12.26
(3,35)	1:194:A:HIS:H	4:349:A:PX4:C35	20	12.23
(3,6)	1:78:A:PHE:H	4:347:A:PX4:C27	12	12.23
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	19	12.19
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	6	12.18
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	14	12.17
(3,32)	1:154:A:ASN:ND2	4:321:A:PX4:C35	5	12.09
(3,32)	1:154:A:ASN:ND2	4:339:A:PX4:C35	8	12.09
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	16	12.05
(3,32)	1:154:A:ASN:ND2	4:355:A:PX4:C35	19	12.04
(2,112)	1:14:A:GLN:H	1:25:A:TYR:H	20	12.0
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	3	11.96
(3,33)	1:155:A:THR:H	4:333:A:PX4:C35	12	11.94
(3,6)	1:78:A:PHE:H	4:329:A:PX4:C27	8	11.91
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	5	11.89
(3,32)	1:154:A:ASN:ND2	4:335:A:PX4:C35	17	11.8
(3,21)	1:77:A:LEU:H	4:347:A:PX4:C35	4	11.79
(3,34)	1:193:A:THR:H	4:355:A:PX4:C35	10	11.75
(3,32)	1:154:A:ASN:ND2	4:335:A:PX4:C35	15	11.72
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	18	11.72
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	8	11.61
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	20	11.61
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	16	11.56
(3,33)	1:155:A:THR:H	4:355:A:PX4:C35	19	11.47
(3,35)	1:194:A:HIS:H	4:339:A:PX4:C35	17	11.39
(3,21)	1:77:A:LEU:H	4:335:A:PX4:C35	10	11.38
(3,21)	1:77:A:LEU:H	4:335:A:PX4:C35	11	11.38
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	10	11.37
(2,389)	1:66:A:ARG:H	1:180:A:ASP:H	17	11.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,33)	1:155:A:THR:H	4:331:A:PX4:C35	14	11.3
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	15	11.23
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	13	11.19
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	2	11.17
(3,35)	1:194:A:HIS:H	4:355:A:PX4:C35	11	11.12
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	15	11.11
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	15	11.11
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	15	11.11
(3,32)	1:154:A:ASN:ND2	4:321:A:PX4:C35	18	11.09
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	12	11.08
(3,32)	1:154:A:ASN:ND2	4:321:A:PX4:C35	10	11.06
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	1	10.99
(3,32)	1:154:A:ASN:ND2	4:321:A:PX4:C35	12	10.93
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	19	10.93
(3,6)	1:78:A:PHE:H	4:355:A:PX4:C27	9	10.92
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	17	10.91
(3,32)	1:154:A:ASN:ND2	4:331:A:PX4:C35	13	10.88
(3,33)	1:155:A:THR:H	4:331:A:PX4:C35	6	10.84
(3,33)	1:155:A:THR:H	4:339:A:PX4:C35	8	10.82
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	9	10.81
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	7	10.8
(3,6)	1:78:A:PHE:H	4:337:A:PX4:C27	14	10.77
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	18	10.76
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	18	10.76
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	18	10.76
(3,34)	1:193:A:THR:H	4:331:A:PX4:C35	2	10.74
(3,31)	1:153:A:GLY:H	4:321:A:PX4:C35	15	10.72
(3,31)	1:153:A:GLY:H	4:321:A:PX4:C35	17	10.72
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	11	10.68
(3,34)	1:193:A:THR:H	4:341:A:PX4:C35	5	10.56
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	16	10.56
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	16	10.56
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	16	10.56
(3,6)	1:78:A:PHE:H	4:329:A:PX4:C27	1	10.52
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	17	10.49
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	17	10.49
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	17	10.49
(3,35)	1:194:A:HIS:H	4:331:A:PX4:C35	6	10.46
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	20	10.43
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	20	10.43
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	20	10.43
(3,32)	1:154:A:ASN:ND2	4:321:A:PX4:C35	14	10.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	9	10.41
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	9	10.41
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	9	10.41
(3,6)	1:78:A:PHE:H	4:329:A:PX4:C27	4	10.4
(3,32)	1:154:A:ASN:ND2	4:331:A:PX4:C35	6	10.38
(3,21)	1:77:A:LEU:H	4:335:A:PX4:C35	15	10.36
(3,33)	1:155:A:THR:H	4:347:A:PX4:C35	2	10.35
(3,21)	1:77:A:LEU:H	4:335:A:PX4:C35	17	10.28
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	18	10.25
(3,33)	1:155:A:THR:H	4:321:A:PX4:C35	9	10.2
(3,4)	1:77:A:LEU:CD1	4:329:A:PX4:C27	20	10.2
(3,6)	1:78:A:PHE:H	4:329:A:PX4:C27	10	10.19
(3,31)	1:153:A:GLY:H	4:321:A:PX4:C35	18	10.18
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	10	10.15
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	10	10.15
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	10	10.15
(3,35)	1:194:A:HIS:H	4:339:A:PX4:C35	19	10.14
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	14	10.11
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	14	10.11
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	14	10.11
(3,35)	1:194:A:HIS:H	4:333:A:PX4:C35	18	10.09
(3,34)	1:193:A:THR:H	4:339:A:PX4:C35	4	10.03
(3,34)	1:193:A:THR:H	4:313:A:PX4:C35	14	10.02
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	3	10.02
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	3	10.02
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	3	10.02
(3,31)	1:153:A:GLY:H	4:341:A:PX4:C35	5	10.01
(3,5)	1:77:A:LEU:CD2	4:329:A:PX4:C27	20	9.97
(3,6)	1:78:A:PHE:H	4:335:A:PX4:C27	3	9.93
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	8	9.93
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	8	9.93
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	8	9.93
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	12	9.92
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	12	9.92
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	12	9.92
(3,35)	1:194:A:HIS:H	4:333:A:PX4:C35	9	9.91
(3,6)	1:78:A:PHE:H	4:329:A:PX4:C27	6	9.91
(3,34)	1:193:A:THR:H	4:331:A:PX4:C35	13	9.85
(3,31)	1:153:A:GLY:H	4:355:A:PX4:C35	4	9.84
(2,532)	1:23:A:TYR:H	1:205:A:SER:H	4	9.81
(3,4)	1:77:A:LEU:CD1	4:347:A:PX4:C27	7	9.79
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	11	9.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	11	9.79
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	11	9.79
(3,21)	1:77:A:LEU:H	4:329:A:PX4:C35	16	9.77
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	13	9.77
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	13	9.77
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	13	9.77
(3,31)	1:153:A:GLY:H	4:323:A:PX4:C35	16	9.66
(3,31)	1:153:A:GLY:H	4:355:A:PX4:C35	7	9.64
(3,6)	1:78:A:PHE:H	4:347:A:PX4:C27	19	9.63
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	1	9.61
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	1	9.61
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	1	9.61
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	9	9.6
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	4	9.59
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	4	9.59
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	4	9.59
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	7	9.59
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	7	9.59
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	7	9.59
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	19	9.55
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	19	9.55
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	19	9.55
(3,33)	1:155:A:THR:H	4:355:A:PX4:C35	11	9.52
(3,32)	1:154:A:ASN:ND2	4:355:A:PX4:C35	11	9.5
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	5	9.5
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	5	9.5
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	5	9.5
(3,1)	1:74:A:GLU:H	4:329:A:PX4:C27	20	9.48
(3,6)	1:78:A:PHE:H	4:329:A:PX4:C27	5	9.44
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	2	9.44
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	2	9.44
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	2	9.44
(3,35)	1:194:A:HIS:H	4:349:A:PX4:C35	16	9.35
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG11	6	9.34
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG12	6	9.34
(2,180)	1:92:A:ARG:H	1:69:A:VAL:HG13	6	9.34
(3,4)	1:77:A:LEU:CD1	4:347:A:PX4:C27	12	9.22
(3,21)	1:77:A:LEU:H	4:347:A:PX4:C35	2	9.16
(3,4)	1:77:A:LEU:CD1	4:329:A:PX4:C27	8	9.07
(3,6)	1:78:A:PHE:H	4:329:A:PX4:C27	17	9.04
(3,25)	1:108:A:LEU:H	4:349:A:PX4:C35	15	8.96
(3,31)	1:153:A:GLY:H	4:321:A:PX4:C35	3	8.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:153:A:GLY:H	4:355:A:PX4:C35	1	8.93
(3,32)	1:154:A:ASN:ND2	4:353:A:PX4:C35	3	8.92
(3,6)	1:78:A:PHE:H	4:329:A:PX4:C27	11	8.87
(3,5)	1:77:A:LEU:CD2	4:331:A:PX4:C27	7	8.83
(3,35)	1:194:A:HIS:H	4:333:A:PX4:C35	12	8.79
(3,34)	1:193:A:THR:H	4:341:A:PX4:C35	1	8.78
(3,32)	1:154:A:ASN:ND2	4:321:A:PX4:C35	20	8.71
(3,1)	1:74:A:GLU:H	4:331:A:PX4:C27	7	8.68
(3,6)	1:78:A:PHE:H	4:329:A:PX4:C27	18	8.67
(3,6)	1:78:A:PHE:H	4:329:A:PX4:C27	2	8.66
(3,32)	1:154:A:ASN:ND2	4:347:A:PX4:C35	2	8.63
(3,25)	1:108:A:LEU:H	4:325:A:PX4:C35	3	8.55
(3,4)	1:77:A:LEU:CD1	4:331:A:PX4:C27	13	8.51
(3,31)	1:153:A:GLY:H	4:347:A:PX4:C35	2	8.49
(3,31)	1:153:A:GLY:H	4:323:A:PX4:C35	13	8.38
(3,31)	1:153:A:GLY:H	4:321:A:PX4:C35	10	8.36
(3,31)	1:153:A:GLY:H	4:321:A:PX4:C35	20	8.36
(3,3)	1:77:A:LEU:H	4:347:A:PX4:C27	7	8.19
(3,4)	1:77:A:LEU:CD1	4:335:A:PX4:C27	3	8.13
(3,35)	1:194:A:HIS:H	4:339:A:PX4:C35	8	8.07
(3,25)	1:108:A:LEU:H	4:355:A:PX4:C35	2	8.01
(3,34)	1:193:A:THR:H	4:339:A:PX4:C35	7	7.96
(3,34)	1:193:A:THR:H	4:355:A:PX4:C35	11	7.93
(3,34)	1:193:A:THR:H	4:349:A:PX4:C35	20	7.93
(3,31)	1:153:A:GLY:H	4:321:A:PX4:C35	12	7.91
(3,1)	1:74:A:GLU:H	4:329:A:PX4:C27	1	7.72
(3,5)	1:77:A:LEU:CD2	4:331:A:PX4:C27	13	7.69
(3,34)	1:193:A:THR:H	4:339:A:PX4:C35	17	7.68
(3,1)	1:74:A:GLU:H	4:329:A:PX4:C27	10	7.61
(3,5)	1:77:A:LEU:CD2	4:347:A:PX4:C27	12	7.59
(3,1)	1:74:A:GLU:H	4:329:A:PX4:C27	18	7.58
(3,17)	1:154:A:ASN:ND2	4:331:A:PX4:C27	1	7.54
(3,5)	1:77:A:LEU:CD2	4:335:A:PX4:C27	3	7.53
(3,3)	1:77:A:LEU:H	4:329:A:PX4:C27	20	7.5
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	20	7.43
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	18	7.41
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	14	7.41
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	5	7.39
(3,31)	1:153:A:GLY:H	4:323:A:PX4:C35	14	7.35
(3,4)	1:77:A:LEU:CD1	4:329:A:PX4:C27	1	7.35
(3,17)	1:154:A:ASN:ND2	4:331:A:PX4:C27	7	7.33
(3,6)	1:78:A:PHE:H	4:335:A:PX4:C27	15	7.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:76:A:SER:H	4:355:A:PX4:C27	9	7.28
(3,4)	1:77:A:LEU:CD1	4:337:A:PX4:C27	14	7.27
(3,31)	1:153:A:GLY:H	4:355:A:PX4:C35	19	7.24
(3,5)	1:77:A:LEU:CD2	4:329:A:PX4:C27	10	7.24
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	12	7.24
(3,34)	1:193:A:THR:H	4:331:A:PX4:C35	6	7.22
(3,26)	1:128:A:VAL:H	4:306:A:PX4:C35	15	7.22
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	9	7.19
(3,31)	1:153:A:GLY:H	4:331:A:PX4:C35	6	7.14
(3,3)	1:77:A:LEU:H	4:331:A:PX4:C27	13	7.12
(3,5)	1:77:A:LEU:CD2	4:329:A:PX4:C27	1	7.08
(3,17)	1:154:A:ASN:ND2	4:331:A:PX4:C27	17	7.04
(3,1)	1:74:A:GLU:H	4:355:A:PX4:C27	9	7.03
(3,5)	1:77:A:LEU:CD2	4:347:A:PX4:C27	8	7.0
(3,1)	1:74:A:GLU:H	4:347:A:PX4:C27	8	6.98
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	2	6.98
(3,1)	1:74:A:GLU:H	4:331:A:PX4:C27	13	6.96
(3,4)	1:77:A:LEU:CD1	4:329:A:PX4:C27	10	6.94
(3,26)	1:128:A:VAL:H	4:345:A:PX4:C35	3	6.92
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	10	6.89
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	8	6.85
(3,1)	1:74:A:GLU:H	4:335:A:PX4:C27	5	6.79
(3,3)	1:77:A:LEU:H	4:347:A:PX4:C27	8	6.78
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	3	6.74
(3,26)	1:128:A:VAL:H	4:313:A:PX4:C35	10	6.71
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	11	6.71
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	19	6.7
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	15	6.69
(3,4)	1:77:A:LEU:CD1	4:337:A:PX4:C27	4	6.66
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	13	6.66
(3,31)	1:153:A:GLY:H	4:339:A:PX4:C35	8	6.65
(3,4)	1:77:A:LEU:CD1	4:329:A:PX4:C27	6	6.64
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	1	6.64
(3,1)	1:74:A:GLU:H	4:347:A:PX4:C27	12	6.61
(3,25)	1:108:A:LEU:H	4:339:A:PX4:C35	10	6.6
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	20	6.56
(3,3)	1:77:A:LEU:H	4:355:A:PX4:C27	9	6.55
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	6	6.55
(3,17)	1:154:A:ASN:ND2	4:331:A:PX4:C27	8	6.49
(3,17)	1:154:A:ASN:ND2	4:321:A:PX4:C27	16	6.45
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	1	6.45
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	7	6.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	10	6.44
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	7	6.4
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	2	6.39
(3,17)	1:154:A:ASN:ND2	4:331:A:PX4:C27	19	6.35
(3,34)	1:193:A:THR:H	4:333:A:PX4:C35	18	6.34
(3,5)	1:77:A:LEU:CD2	4:337:A:PX4:C27	14	6.29
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	17	6.29
(3,5)	1:77:A:LEU:CD2	4:329:A:PX4:C27	5	6.24
(3,4)	1:77:A:LEU:CD1	4:329:A:PX4:C27	5	6.24
(3,32)	1:154:A:ASN:ND2	4:321:A:PX4:C35	9	6.2
(3,1)	1:74:A:GLU:H	4:329:A:PX4:C27	6	6.19
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	13	6.19
(3,2)	1:76:A:SER:H	4:329:A:PX4:C27	20	6.16
(3,34)	1:193:A:THR:H	4:339:A:PX4:C35	19	6.12
(3,5)	1:77:A:LEU:CD2	4:329:A:PX4:C27	11	6.12
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	3	6.12
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	4	6.09
(3,4)	1:77:A:LEU:CD1	4:347:A:PX4:C27	19	6.05
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	19	6.05
(3,34)	1:193:A:THR:H	4:333:A:PX4:C35	9	6.03
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	12	6.03
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	15	6.03
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	5	6.0
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	16	5.97
(2,530)	1:204:A:HIS:HE1	1:24:A:LEU:H	16	5.97
(3,6)	1:78:A:PHE:H	4:345:A:PX4:C27	16	5.96
(3,4)	1:77:A:LEU:CD1	4:329:A:PX4:C27	17	5.96
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	11	5.96
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	8	5.93
(3,26)	1:128:A:VAL:H	4:333:A:PX4:C35	9	5.91
(3,1)	1:74:A:GLU:H	4:337:A:PX4:C27	14	5.9
(3,3)	1:77:A:LEU:H	4:329:A:PX4:C27	1	5.87
(3,1)	1:74:A:GLU:H	4:337:A:PX4:C27	4	5.81
(3,17)	1:154:A:ASN:ND2	4:361:A:PX4:C27	4	5.79
(3,5)	1:77:A:LEU:CD2	4:329:A:PX4:C27	6	5.77
(3,1)	1:74:A:GLU:H	4:347:A:PX4:C27	17	5.76
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	14	5.75
(3,17)	1:154:A:ASN:ND2	4:321:A:PX4:C27	18	5.74
(3,4)	1:77:A:LEU:CD1	4:329:A:PX4:C27	11	5.72
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	17	5.72
(3,17)	1:154:A:ASN:ND2	4:355:A:PX4:C27	9	5.69
(3,31)	1:153:A:GLY:H	4:355:A:PX4:C35	11	5.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	16	5.66
(3,20)	1:196:A:LEU:CD2	4:337:A:PX4:C27	3	5.62
(3,3)	1:77:A:LEU:H	4:347:A:PX4:C27	12	5.61
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	6	5.61
(3,2)	1:76:A:SER:H	4:347:A:PX4:C27	7	5.59
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	9	5.58
(3,1)	1:74:A:GLU:H	4:347:A:PX4:C27	11	5.56
(3,5)	1:77:A:LEU:CD2	4:329:A:PX4:C27	17	5.52
(3,17)	1:154:A:ASN:ND2	4:321:A:PX4:C27	10	5.49
(3,17)	1:154:A:ASN:ND2	4:321:A:PX4:C27	20	5.49
(3,3)	1:77:A:LEU:H	4:347:A:PX4:C27	4	5.49
(3,1)	1:74:A:GLU:H	4:347:A:PX4:C27	19	5.48
(3,31)	1:153:A:GLY:H	4:321:A:PX4:C35	9	5.47
(3,34)	1:193:A:THR:H	4:333:A:PX4:C35	12	5.46
(3,5)	1:77:A:LEU:CD2	4:337:A:PX4:C27	4	5.45
(3,20)	1:196:A:LEU:CD2	4:331:A:PX4:C27	15	5.4
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	18	5.35
(3,5)	1:77:A:LEU:CD2	4:347:A:PX4:C27	19	5.28
(3,4)	1:77:A:LEU:CD1	4:335:A:PX4:C27	15	5.25
(3,1)	1:74:A:GLU:H	4:337:A:PX4:C27	2	5.25
(3,17)	1:154:A:ASN:ND2	4:321:A:PX4:C27	11	5.24
(3,3)	1:77:A:LEU:H	4:329:A:PX4:C27	10	5.21
(2,934)	1:72:A:VAL:HB	1:77:A:LEU:H	4	5.19
(3,26)	1:128:A:VAL:H	4:339:A:PX4:C35	7	5.14
(3,1)	1:74:A:GLU:H	4:335:A:PX4:C27	3	5.11
(3,30)	1:145:A:ASP:H	4:331:A:PX4:C35	7	5.08
(3,25)	1:108:A:LEU:H	4:339:A:PX4:C35	13	5.08
(3,17)	1:154:A:ASN:ND2	4:321:A:PX4:C27	5	5.07
(3,26)	1:128:A:VAL:H	4:306:A:PX4:C35	2	5.05
(3,26)	1:128:A:VAL:H	4:361:A:PX4:C35	8	5.05
(3,26)	1:128:A:VAL:H	4:333:A:PX4:C35	18	5.05
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	15	5.01
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	10	5.01
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	19	5.01
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	2	4.99
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	10	4.99
(3,9)	1:128:A:VAL:H	4:306:A:PX4:C27	15	4.97
(3,5)	1:77:A:LEU:CD2	4:337:A:PX4:C27	2	4.97
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	20	4.97
(3,2)	1:76:A:SER:H	4:331:A:PX4:C27	13	4.94
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	1	4.93
(3,3)	1:77:A:LEU:H	4:329:A:PX4:C27	6	4.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,9)	1:128:A:VAL:H	4:333:A:PX4:C27	17	4.91
(3,4)	1:77:A:LEU:CD1	4:337:A:PX4:C27	2	4.9
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	12	4.89
(3,3)	1:77:A:LEU:H	4:329:A:PX4:C27	18	4.87
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	16	4.87
(3,3)	1:77:A:LEU:H	4:329:A:PX4:C27	5	4.85
(3,3)	1:77:A:LEU:H	4:337:A:PX4:C27	14	4.83
(3,2)	1:76:A:SER:H	4:329:A:PX4:C27	18	4.83
(3,26)	1:128:A:VAL:H	4:306:A:PX4:C35	11	4.8
(3,17)	1:154:A:ASN:ND2	4:321:A:PX4:C27	2	4.8
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	7	4.8
(3,34)	1:193:A:THR:H	4:349:A:PX4:C35	16	4.79
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	17	4.78
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	6	4.78
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	14	4.77
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	2	4.77
(3,9)	1:128:A:VAL:H	4:337:A:PX4:C27	11	4.75
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	18	4.74
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	8	4.74
(3,17)	1:154:A:ASN:ND2	4:331:A:PX4:C27	13	4.73
(3,2)	1:76:A:SER:H	4:347:A:PX4:C27	8	4.73
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	20	4.73
(3,36)	1:129:A:TRP:HE1	4:306:A:PX4:N1	8	4.7
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	9	4.69
(3,2)	1:76:A:SER:H	4:329:A:PX4:C27	1	4.66
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	19	4.66
(3,20)	1:196:A:LEU:CD2	4:337:A:PX4:C27	1	4.63
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	13	4.63
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	5	4.62
(3,26)	1:128:A:VAL:H	4:306:A:PX4:C35	4	4.56
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	12	4.55
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	17	4.52
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	4	4.51
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	1	4.5
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	8	4.49
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	18	4.49
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	14	4.48
(3,20)	1:196:A:LEU:CD2	4:331:A:PX4:C27	7	4.45
(3,3)	1:77:A:LEU:H	4:329:A:PX4:C27	11	4.44
(3,3)	1:77:A:LEU:H	4:347:A:PX4:C27	19	4.44
(3,3)	1:77:A:LEU:H	4:347:A:PX4:C27	17	4.42
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	10	4.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	11	4.38
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	1	4.37
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	8	4.36
(3,9)	1:128:A:VAL:H	4:337:A:PX4:C27	3	4.35
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	8	4.35
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	11	4.34
(3,26)	1:128:A:VAL:H	4:333:A:PX4:C35	1	4.31
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	5	4.31
(3,4)	1:77:A:LEU:CD1	4:355:A:PX4:C27	9	4.29
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	6	4.29
(2,988)	1:129:A:TRP:HE1	4:306:A:PX4:C1	3	4.28
(3,17)	1:154:A:ASN:ND2	4:335:A:PX4:C27	15	4.25
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	7	4.25
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	11	4.24
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	3	4.23
(3,36)	1:129:A:TRP:HE1	4:313:A:PX4:N1	3	4.22
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	5	4.21
(3,17)	1:154:A:ASN:ND2	4:321:A:PX4:C27	12	4.17
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	2	4.17
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	12	4.17
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	14	4.15
(3,24)	1:106:A:ASP:H	4:333:A:PX4:C35	15	4.13
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	3	4.11
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	5	4.1
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	16	4.1
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	16	4.1
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	16	4.1
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	16	4.1
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	16	4.1
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	16	4.1
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	16	4.1
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	16	4.1
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	16	4.1
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	17	4.1
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	11	4.09
(3,30)	1:145:A:ASP:H	4:347:A:PX4:C35	18	4.07
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	6	4.07
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD22	18	4.06
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD23	18	4.06
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	6	4.06
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	10	4.06
(2,933)	1:72:A:VAL:HA	1:77:A:LEU:H	4	4.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	5	4.05
(3,9)	1:128:A:VAL:H	4:313:A:PX4:C27	7	4.03
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	19	4.02
(3,20)	1:196:A:LEU:CD2	4:337:A:PX4:C27	17	3.98
(3,4)	1:77:A:LEU:CD1	4:329:A:PX4:C27	18	3.98
(3,9)	1:128:A:VAL:H	4:306:A:PX4:C27	13	3.97
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	16	3.96
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	14	3.95
(3,25)	1:108:A:LEU:H	4:339:A:PX4:C35	4	3.94
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	15	3.93
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	13	3.92
(3,20)	1:196:A:LEU:CD2	4:355:A:PX4:C27	10	3.89
(3,25)	1:108:A:LEU:H	4:363:A:PX4:C35	5	3.88
(3,25)	1:108:A:LEU:H	4:313:A:PX4:C35	14	3.88
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	15	3.87
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	15	3.87
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	15	3.87
(3,26)	1:128:A:VAL:H	4:363:A:PX4:C35	5	3.86
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	1	3.86
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	1	3.86
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	12	3.85
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	12	3.85
(3,25)	1:108:A:LEU:H	4:331:A:PX4:C35	6	3.83
(3,2)	1:76:A:SER:H	4:329:A:PX4:C27	10	3.82
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	18	3.81
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	18	3.81
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	18	3.81
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	18	3.81
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	18	3.81
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	18	3.81
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	18	3.81
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	18	3.81
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	18	3.81
(3,25)	1:108:A:LEU:H	4:339:A:PX4:C35	11	3.79
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	2	3.79
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	6	3.79
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	19	3.77
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	19	3.77
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	19	3.77
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	19	3.77
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	19	3.77
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	19	3.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	19	3.77
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	19	3.77
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	19	3.77
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	14	3.77
(3,30)	1:145:A:ASP:H	4:355:A:PX4:C35	9	3.76
(3,26)	1:128:A:VAL:H	4:329:A:PX4:C35	6	3.74
(2,318)	1:125:A:ARG:H	1:92:A:ARG:H	20	3.74
(3,3)	1:77:A:LEU:H	4:335:A:PX4:C27	3	3.72
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	6	3.71
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	6	3.71
(3,34)	1:193:A:THR:H	4:339:A:PX4:C35	8	3.69
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	4	3.68
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	4	3.68
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	4	3.68
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	4	3.68
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	4	3.68
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	4	3.68
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	4	3.68
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	4	3.68
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	4	3.68
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	8	3.68
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	10	3.68
(3,3)	1:77:A:LEU:H	4:329:A:PX4:C27	2	3.67
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	20	3.67
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD22	20	3.65
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD23	20	3.65
(3,2)	1:76:A:SER:H	4:347:A:PX4:C27	4	3.64
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	6	3.64
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	15	3.63
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	15	3.63
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	15	3.63
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	15	3.63
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	15	3.63
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	15	3.63
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	15	3.63
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	15	3.63
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	15	3.63
(3,17)	1:154:A:ASN:ND2	4:321:A:PX4:C27	3	3.61
(3,2)	1:76:A:SER:H	4:347:A:PX4:C27	12	3.61
(3,26)	1:128:A:VAL:H	4:339:A:PX4:C35	17	3.58
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	18	3.57
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	18	3.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	18	3.57
(3,26)	1:128:A:VAL:H	4:306:A:PX4:C35	20	3.56
(3,20)	1:196:A:LEU:CD2	4:331:A:PX4:C27	11	3.56
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	8	3.54
(3,5)	1:77:A:LEU:CD2	4:335:A:PX4:C27	15	3.53
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	16	3.53
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	9	3.52
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	14	3.49
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	14	3.49
(3,17)	1:154:A:ASN:ND2	4:321:A:PX4:C27	6	3.47
(3,24)	1:106:A:ASP:H	4:333:A:PX4:C35	3	3.46
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	9	3.46
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	9	3.46
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	9	3.46
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	10	3.45
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	8	3.44
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	8	3.44
(3,25)	1:108:A:LEU:H	4:333:A:PX4:C35	1	3.43
(3,20)	1:196:A:LEU:CD2	4:355:A:PX4:C27	5	3.43
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	2	3.43
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	7	3.43
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	7	3.43
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	7	3.43
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	1	3.42
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	1	3.42
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	1	3.42
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	1	3.42
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	1	3.42
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	1	3.42
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	1	3.42
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	1	3.42
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	1	3.42
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	15	3.42
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD22	16	3.39
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD23	16	3.39
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	2	3.38
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	2	3.38
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	2	3.38
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	2	3.38
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	2	3.38
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	2	3.38
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	2	3.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	2	3.38
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	2	3.38
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	15	3.37
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	13	3.37
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	13	3.37
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	13	3.37
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	13	3.37
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	13	3.37
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	13	3.37
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	19	3.37
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	19	3.37
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	19	3.37
(3,1)	1:74:A:GLU:H	4:329:A:PX4:C27	16	3.36
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	4	3.36
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	4	3.36
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	4	3.36
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	6	3.35
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	19	3.35
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	19	3.35
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	19	3.35
(3,36)	1:129:A:TRP:HE1	4:313:A:PX4:N1	6	3.34
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	5	3.34
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	5	3.34
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	5	3.34
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	5	3.34
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	5	3.34
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	5	3.34
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	5	3.34
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	5	3.34
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	5	3.34
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	17	3.34
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	17	3.34
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	17	3.34
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	17	3.34
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	17	3.34
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	17	3.34
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	17	3.34
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	17	3.34
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	17	3.34
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	1	3.34
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	1	3.34
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	1	3.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,26)	1:128:A:VAL:H	4:329:A:PX4:C35	13	3.33
(3,20)	1:196:A:LEU:CD2	4:355:A:PX4:C27	4	3.32
(3,17)	1:154:A:ASN:ND2	4:321:A:PX4:C27	14	3.32
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	3	3.32
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	3	3.32
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	3	3.32
(3,22)	1:100:A:LEU:CD2	4:355:A:PX4:C35	2	3.31
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	19	3.31
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	19	3.31
(3,30)	1:145:A:ASP:H	4:331:A:PX4:C35	20	3.29
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	17	3.28
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	19	3.28
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	19	3.28
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	19	3.28
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	3	3.26
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	11	3.26
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	11	3.26
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	11	3.26
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	18	3.25
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	1	3.24
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	11	3.22
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	11	3.22
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	11	3.22
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	14	3.21
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	14	3.21
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	14	3.21
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	14	3.21
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	14	3.21
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	14	3.21
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	14	3.21
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	14	3.21
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	14	3.21
(3,9)	1:128:A:VAL:H	4:313:A:PX4:C27	9	3.2
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	1	3.2
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	1	3.2
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	1	3.2
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	15	3.2
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	15	3.2
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	15	3.2
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	15	3.19
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	9	3.19
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	9	3.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	9	3.19
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	9	3.18
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	5	3.18
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	19	3.18
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	9	3.16
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	9	3.16
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	9	3.16
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	9	3.16
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	9	3.16
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	9	3.16
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	9	3.16
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	9	3.16
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	9	3.16
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	8	3.16
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	8	3.16
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	8	3.16
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	7	3.15
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	10	3.15
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	18	3.15
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	17	3.15
(2,82)	1:58:A:VAL:H	1:48:A:LEU:HD21	18	3.15
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	3	3.14
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	3	3.14
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	3	3.14
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	3	3.14
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	3	3.14
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	3	3.14
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	3	3.14
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	3	3.14
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	3	3.14
(2,988)	1:129:A:TRP:HE1	4:306:A:PX4:C1	8	3.13
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	12	3.13
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	1	3.13
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	20	3.12
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	5	3.12
(2,982)	1:78:A:PHE:HD1	1:80:A:ASN:H	5	3.1
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	20	3.1
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	14	3.1
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	18	3.09
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	18	3.09
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	20	3.09
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	20	3.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	20	3.09
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	20	3.09
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	20	3.09
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	20	3.09
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	20	3.09
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	20	3.09
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	20	3.09
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD22	9	3.09
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD23	9	3.09
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	7	3.08
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	13	3.06
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	13	3.06
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	19	3.06
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	19	3.06
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	13	3.05
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	13	3.05
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	13	3.05
(3,26)	1:128:A:VAL:H	4:329:A:PX4:C35	19	3.04
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	17	3.04
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	17	3.04
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	17	3.04
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	20	3.04
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	20	3.04
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	20	3.04
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	2	3.03
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	1	3.03
(3,9)	1:128:A:VAL:H	4:337:A:PX4:C27	8	3.02
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	15	3.02
(3,9)	1:128:A:VAL:H	4:313:A:PX4:C27	5	3.01
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	12	3.0
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	20	3.0
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	9	3.0
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	16	2.99
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	7	2.99
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	7	2.99
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	7	2.99
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	7	2.99
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	7	2.99
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	7	2.99
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	7	2.99
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	7	2.99
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	7	2.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	17	2.99
(3,20)	1:196:A:LEU:CD2	4:331:A:PX4:C27	14	2.97
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	11	2.97
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	10	2.97
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	10	2.97
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	10	2.97
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	13	2.96
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	6	2.96
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	6	2.96
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	6	2.96
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	6	2.96
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	6	2.96
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	6	2.96
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	6	2.96
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	6	2.96
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	6	2.96
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	17	2.96
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	17	2.96
(2,773)	1:61:A:ILE:HD11	1:48:A:LEU:HD21	18	2.96
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	20	2.96
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	20	2.96
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	20	2.96
(2,868)	1:186:A:ILE:HD11	1:156:A:LEU:HD22	1	2.95
(2,868)	1:186:A:ILE:HD11	1:156:A:LEU:HD23	1	2.95
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	19	2.94
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	13	2.94
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	13	2.94
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	13	2.94
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	13	2.94
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	13	2.94
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	13	2.94
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	13	2.94
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	13	2.94
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	13	2.94
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	2	2.94
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	2	2.94
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	2	2.94
(3,36)	1:129:A:TRP:HE1	4:313:A:PX4:N1	7	2.93
(3,29)	1:129:A:TRP:HE1	4:345:A:PX4:C35	3	2.93
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	20	2.93
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	8	2.93
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	8	2.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	8	2.93
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	8	2.93
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	8	2.93
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	8	2.93
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	8	2.93
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	8	2.93
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	8	2.93
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	5	2.92
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	4	2.92
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	4	2.92
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	4	2.92
(3,16)	1:153:A:GLY:H	4:331:A:PX4:C27	1	2.91
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	14	2.89
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	19	2.89
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	10	2.88
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	10	2.88
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	10	2.88
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	10	2.88
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	10	2.88
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	10	2.88
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	10	2.88
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	10	2.88
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	10	2.88
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	12	2.88
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	12	2.88
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	12	2.88
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	12	2.88
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	12	2.88
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	12	2.88
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	12	2.88
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	12	2.88
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	12	2.88
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	3	2.88
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	3	2.88
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	3	2.88
(3,28)	1:129:A:TRP:H	4:306:A:PX4:C35	15	2.87
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	1	2.87
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	13	2.87
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	12	2.87
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	12	2.87
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	12	2.87
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	8	2.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	15	2.85
(3,20)	1:196:A:LEU:CD2	4:355:A:PX4:C27	12	2.84
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	17	2.84
(2,871)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	12	2.84
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	6	2.84
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	6	2.84
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	11	2.84
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	16	2.84
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	16	2.84
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	16	2.84
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	1	2.83
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	6	2.83
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	6	2.83
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	6	2.83
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	1	2.8
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	5	2.79
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	13	2.79
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	13	2.79
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	13	2.79
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	7	2.79
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	7	2.79
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	7	2.79
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	1	2.78
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	1	2.78
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	1	2.78
(3,20)	1:196:A:LEU:CD2	4:333:A:PX4:C27	18	2.77
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	5	2.77
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	5	2.77
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	5	2.77
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	3	2.76
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	2	2.76
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	2	2.76
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	2	2.76
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	14	2.76
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	14	2.76
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	14	2.76
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	9	2.75
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	13	2.74
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	17	2.74
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	10	2.74
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	10	2.74
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	10	2.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	3	2.73
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	3	2.73
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	3	2.73
(3,20)	1:196:A:LEU:CD2	4:331:A:PX4:C27	8	2.72
(3,2)	1:76:A:SER:H	4:337:A:PX4:C27	14	2.72
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	10	2.72
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	10	2.72
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	2	2.72
(2,988)	1:129:A:TRP:HE1	4:306:A:PX4:C2	6	2.71
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	19	2.71
(3,9)	1:128:A:VAL:H	4:313:A:PX4:C27	12	2.7
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB1	11	2.7
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB2	11	2.7
(2,882)	1:24:A:LEU:HD11	1:73:A:ALA:HB3	11	2.7
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB1	11	2.7
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB2	11	2.7
(2,882)	1:24:A:LEU:HD12	1:73:A:ALA:HB3	11	2.7
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB1	11	2.7
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB2	11	2.7
(2,882)	1:24:A:LEU:HD13	1:73:A:ALA:HB3	11	2.7
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	2	2.69
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	15	2.69
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	15	2.69
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	15	2.69
(3,1)	1:74:A:GLU:H	4:335:A:PX4:C27	15	2.68
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	7	2.68
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	7	2.68
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	7	2.68
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	17	2.68
(3,24)	1:106:A:ASP:H	4:355:A:PX4:C35	2	2.66
(3,22)	1:100:A:LEU:CD2	4:349:A:PX4:C35	15	2.66
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	13	2.66
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	13	2.66
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	13	2.66
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	5	2.66
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	5	2.66
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	5	2.66
(3,2)	1:76:A:SER:H	4:347:A:PX4:C27	11	2.65
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	6	2.65
(3,3)	1:77:A:LEU:H	4:329:A:PX4:C27	16	2.64
(3,2)	1:76:A:SER:H	4:347:A:PX4:C27	19	2.64
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	9	2.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	9	2.64
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	13	2.64
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	13	2.64
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	14	2.63
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	14	2.63
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD11	17	2.61
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD12	17	2.61
(2,177)	1:171:A:HIS:H	1:134:A:ILE:HD13	17	2.61
(3,9)	1:128:A:VAL:H	4:333:A:PX4:C27	18	2.6
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	19	2.6
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	19	2.6
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	19	2.6
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	19	2.6
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	13	2.6
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	17	2.6
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	4	2.6
(3,2)	1:76:A:SER:H	4:347:A:PX4:C27	17	2.59
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	8	2.59
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	12	2.58
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	12	2.58
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	12	2.58
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	12	2.58
(3,20)	1:196:A:LEU:CD2	4:355:A:PX4:C27	9	2.57
(3,9)	1:128:A:VAL:H	4:306:A:PX4:C27	2	2.56
(3,2)	1:76:A:SER:H	4:335:A:PX4:C27	5	2.54
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	14	2.54
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	14	2.54
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	16	2.54
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	16	2.54
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	16	2.54
(3,30)	1:145:A:ASP:H	4:335:A:PX4:C35	1	2.53
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	14	2.53
(3,36)	1:129:A:TRP:HE1	4:349:A:PX4:N1	14	2.52
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	13	2.52
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	13	2.52
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	13	2.52
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	13	2.52
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	6	2.52
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	6	2.52
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	17	2.52
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	7	2.49
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	7	2.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,16)	1:153:A:GLY:H	4:331:A:PX4:C27	7	2.48
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	7	2.47
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	4	2.46
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	20	2.46
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	10	2.45
(3,20)	1:196:A:LEU:CD2	4:331:A:PX4:C27	19	2.44
(3,2)	1:76:A:SER:H	4:335:A:PX4:C27	6	2.44
(2,842)	1:200:A:LEU:HD21	1:122:A:LEU:HD21	9	2.44
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	11	2.44
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	11	2.44
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	11	2.43
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	11	2.43
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	18	2.43
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	12	2.4
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	12	2.4
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	12	2.4
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	3	2.39
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	11	2.39
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	11	2.39
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	11	2.39
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	11	2.39
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	11	2.39
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	11	2.39
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	11	2.39
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	7	2.39
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	11	2.39
(2,257)	1:112:A:ALA:H	1:189:A:LEU:HD21	19	2.38
(2,871)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	8	2.37
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	3	2.37
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	13	2.36
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	13	2.36
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	7	2.36
(2,982)	1:78:A:PHE:HD1	1:80:A:ASN:H	6	2.35
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	20	2.35
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	14	2.35
(3,20)	1:196:A:LEU:CD2	4:355:A:PX4:C27	20	2.34
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	19	2.34
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	19	2.34
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	5	2.34
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	20	2.33
(3,20)	1:196:A:LEU:CD2	4:337:A:PX4:C27	2	2.32
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	8	2.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	8	2.32
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	8	2.32
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	8	2.32
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	8	2.32
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	11	2.32
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	11	2.32
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	11	2.32
(2,82)	1:58:A:VAL:H	1:48:A:LEU:HD21	9	2.32
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	13	2.32
(3,16)	1:153:A:GLY:H	4:323:A:PX4:C27	17	2.31
(2,773)	1:61:A:ILE:HD11	1:48:A:LEU:HD21	16	2.31
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	12	2.3
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	6	2.3
(2,988)	1:129:A:TRP:HE1	4:349:A:PX4:C1	14	2.29
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD22	3	2.29
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD23	3	2.29
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	7	2.29
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	7	2.29
(3,20)	1:196:A:LEU:CD2	4:331:A:PX4:C27	13	2.28
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	1	2.28
(3,16)	1:153:A:GLY:H	4:323:A:PX4:C27	4	2.27
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	2	2.27
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	2	2.27
(2,671)	1:66:A:ARG:H	1:156:A:LEU:HD21	16	2.27
(2,941)	1:73:A:ALA:HA	1:77:A:LEU:H	6	2.26
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	8	2.26
(2,82)	1:58:A:VAL:H	1:48:A:LEU:HD21	19	2.25
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	20	2.25
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	9	2.24
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	9	2.24
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	11	2.23
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	11	2.23
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	11	2.23
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	15	2.23
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	15	2.23
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	10	2.23
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	2	2.23
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	6	2.23
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	5	2.22
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	11	2.22
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	17	2.22
(3,20)	1:196:A:LEU:CD2	4:337:A:PX4:C27	6	2.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,872)	1:186:A:ILE:HD13	1:156:A:LEU:HD22	1	2.21
(2,872)	1:186:A:ILE:HD13	1:156:A:LEU:HD23	1	2.21
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	10	2.21
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	10	2.21
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	1	2.21
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	19	2.2
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	19	2.2
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	19	2.2
(2,871)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	6	2.2
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	15	2.19
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	15	2.19
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	15	2.19
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	7	2.19
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	7	2.19
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	9	2.18
(3,4)	1:77:A:LEU:CD1	4:345:A:PX4:C27	16	2.17
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	7	2.17
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	7	2.17
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	7	2.17
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	16	2.17
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	16	2.17
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	16	2.17
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	19	2.17
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	6	2.17
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	4	2.17
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	4	2.17
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	18	2.17
(3,28)	1:129:A:TRP:H	4:313:A:PX4:C35	10	2.16
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	10	2.16
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	10	2.16
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	3	2.15
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD22	7	2.15
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD23	7	2.15
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	3	2.15
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	16	2.15
(3,20)	1:196:A:LEU:CD2	4:355:A:PX4:C27	16	2.14
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	15	2.14
(3,36)	1:129:A:TRP:HE1	4:313:A:PX4:N1	19	2.13
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	18	2.13
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	18	2.13
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	7	2.13
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	7	2.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	7	2.13
(2,321)	1:128:A:VAL:HG11	1:126:A:LYS:H	18	2.13
(2,321)	1:128:A:VAL:HG12	1:126:A:LYS:H	18	2.13
(2,321)	1:128:A:VAL:HG13	1:126:A:LYS:H	18	2.13
(2,982)	1:78:A:PHE:HD1	1:80:A:ASN:H	20	2.12
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	13	2.12
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	12	2.12
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	12	2.12
(2,321)	1:128:A:VAL:HG11	1:126:A:LYS:H	15	2.12
(2,321)	1:128:A:VAL:HG12	1:126:A:LYS:H	15	2.12
(2,321)	1:128:A:VAL:HG13	1:126:A:LYS:H	15	2.12
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	11	2.12
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	17	2.12
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	6	2.11
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	6	2.11
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	6	2.11
(2,844)	1:200:A:LEU:HD22	1:122:A:LEU:HD21	9	2.11
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	8	2.11
(2,730)	1:211:A:VAL:HG12	1:226:A:LEU:HD22	17	2.11
(2,730)	1:211:A:VAL:HG12	1:226:A:LEU:HD23	17	2.11
(2,988)	1:129:A:TRP:HE1	4:306:A:PX4:C1	1	2.1
(2,871)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	19	2.1
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	4	2.1
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	4	2.1
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	7	2.1
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	2	2.08
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	2	2.08
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	19	2.08
(2,82)	1:58:A:VAL:H	1:48:A:LEU:HD21	16	2.08
(3,16)	1:153:A:GLY:H	4:323:A:PX4:C27	5	2.07
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	7	2.07
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	7	2.07
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	7	2.07
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	7	2.07
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	7	2.07
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	7	2.07
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD22	7	2.07
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD23	7	2.07
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	13	2.07
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	18	2.07
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	2	2.06
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	2	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	2	2.06
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	5	2.06
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	5	2.06
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	3	2.06
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	5	2.06
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	5	2.06
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	5	2.06
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	6	2.06
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	6	2.06
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	6	2.06
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	4	2.06
(2,982)	1:78:A:PHE:HD1	1:80:A:ASN:H	2	2.03
(2,857)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	1	2.03
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	17	2.03
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	17	2.03
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	15	2.03
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	7	2.03
(3,16)	1:153:A:GLY:H	4:321:A:PX4:C27	16	2.02
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	15	2.02
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	15	2.02
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	15	2.02
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	3	2.02
(3,28)	1:129:A:TRP:H	4:345:A:PX4:C35	3	2.01
(2,773)	1:61:A:ILE:HD11	1:48:A:LEU:HD21	9	2.01
(2,746)	1:89:A:VAL:HG11	1:122:A:LEU:HD21	4	2.01
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	7	2.01
(2,775)	1:61:A:ILE:HD12	1:48:A:LEU:HD21	11	1.99
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD22	10	1.99
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD23	10	1.99
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	10	1.99
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	19	1.98
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	19	1.98
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	19	1.98
(2,871)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	1	1.98
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	8	1.98
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	8	1.98
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	19	1.98
(3,28)	1:129:A:TRP:H	4:306:A:PX4:C35	9	1.97
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	9	1.97
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	9	1.97
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	9	1.97
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	13	1.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	18	1.97
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	18	1.97
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	18	1.97
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	20	1.97
(2,982)	1:78:A:PHE:HD1	1:80:A:ASN:H	13	1.96
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	5	1.96
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	5	1.96
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	12	1.96
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	12	1.96
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	12	1.96
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	5	1.96
(2,858)	1:186:A:ILE:HD11	1:156:A:LEU:HD22	1	1.95
(2,858)	1:186:A:ILE:HD11	1:156:A:LEU:HD23	1	1.95
(3,9)	1:128:A:VAL:H	4:333:A:PX4:C27	20	1.94
(2,982)	1:78:A:PHE:HD1	1:80:A:ASN:H	19	1.94
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	10	1.94
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	10	1.94
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	10	1.94
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	8	1.94
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	8	1.94
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	8	1.94
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	9	1.94
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	17	1.94
(3,9)	1:128:A:VAL:H	4:345:A:PX4:C27	19	1.93
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	13	1.93
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	13	1.93
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	13	1.93
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	6	1.93
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	5	1.93
(3,9)	1:128:A:VAL:H	4:313:A:PX4:C27	10	1.92
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	5	1.92
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	5	1.92
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	5	1.92
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	5	1.92
(2,748)	1:89:A:VAL:HG12	1:122:A:LEU:HD21	4	1.92
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	12	1.92
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	12	1.92
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	13	1.92
(2,872)	1:186:A:ILE:HD13	1:156:A:LEU:HD22	12	1.91
(2,872)	1:186:A:ILE:HD13	1:156:A:LEU:HD23	12	1.91
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	11	1.9
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	1	1.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	1	1.9
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	1	1.9
(2,531)	1:205:A:SER:H	1:204:A:HIS:HE1	9	1.9
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	9	1.89
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	6	1.89
(2,321)	1:128:A:VAL:HG11	1:126:A:LYS:H	14	1.89
(2,321)	1:128:A:VAL:HG12	1:126:A:LYS:H	14	1.89
(2,321)	1:128:A:VAL:HG13	1:126:A:LYS:H	14	1.89
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	4	1.88
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	15	1.88
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	15	1.88
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	15	1.88
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	15	1.88
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	15	1.88
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	15	1.88
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	4	1.88
(2,988)	1:129:A:TRP:HE1	4:306:A:PX4:C1	7	1.87
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	14	1.87
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	14	1.87
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	14	1.87
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	12	1.87
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	12	1.87
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	16	1.87
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	10	1.87
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	3	1.86
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	3	1.86
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	3	1.86
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	5	1.86
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	5	1.86
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	7	1.86
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	7	1.86
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	7	1.86
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	6	1.85
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	6	1.85
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	6	1.85
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	15	1.85
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	15	1.85
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	15	1.85
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	3	1.84
(2,861)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	12	1.84
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	12	1.84
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	14	1.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD22	7	1.83
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD23	7	1.83
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	11	1.82
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	11	1.82
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	11	1.82
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	1	1.82
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	20	1.81
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	20	1.81
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD22	1	1.8
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD23	1	1.8
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	18	1.8
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	7	1.79
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	7	1.79
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	7	1.79
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	7	1.79
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	12	1.79
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	12	1.79
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	12	1.79
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	8	1.79
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	8	1.79
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	11	1.79
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	13	1.78
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	13	1.78
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	1	1.78
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	1	1.78
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	1	1.78
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	1	1.78
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	1	1.78
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	1	1.78
(1,5)	2:302:A:CA:CA	1:176:A:GLU:OE2	12	1.77
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	19	1.76
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	19	1.76
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	2	1.76
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	2	1.76
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	2	1.76
(3,27)	1:128:A:VAL:CG2	4:306:A:PX4:C35	15	1.75
(3,26)	1:128:A:VAL:H	4:313:A:PX4:C35	14	1.75
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	13	1.75
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	13	1.75
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	16	1.74
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	7	1.74
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	9	1.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	2	1.74
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	10	1.73
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	1	1.73
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	1	1.73
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	3	1.73
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	3	1.73
(2,83)	1:58:A:VAL:H	1:48:A:LEU:HD22	9	1.73
(2,83)	1:58:A:VAL:H	1:48:A:LEU:HD23	9	1.73
(3,25)	1:108:A:LEU:H	4:333:A:PX4:C35	12	1.72
(3,16)	1:153:A:GLY:H	4:323:A:PX4:C27	18	1.72
(3,9)	1:128:A:VAL:H	4:337:A:PX4:C27	1	1.72
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	5	1.72
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	5	1.72
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	5	1.72
(3,5)	1:77:A:LEU:CD2	4:345:A:PX4:C27	16	1.71
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	2	1.71
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	2	1.71
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	2	1.71
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	4	1.71
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	6	1.71
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD22	17	1.71
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD23	17	1.71
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	15	1.71
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	5	1.7
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	20	1.7
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	1	1.7
(3,2)	1:76:A:SER:H	4:335:A:PX4:C27	3	1.69
(2,777)	1:61:A:ILE:HD13	1:48:A:LEU:HD21	18	1.69
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	6	1.69
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	6	1.69
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	19	1.68
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	9	1.68
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	7	1.68
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	7	1.67
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	13	1.67
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	13	1.67
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	13	1.67
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	13	1.67
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	13	1.67
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	13	1.67
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	4	1.67
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	4	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	17	1.66
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	20	1.66
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	1	1.66
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	1	1.66
(3,16)	1:153:A:GLY:H	4:321:A:PX4:C27	20	1.65
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	12	1.65
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	13	1.65
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	19	1.65
(3,16)	1:153:A:GLY:H	4:331:A:PX4:C27	19	1.64
(3,9)	1:128:A:VAL:H	4:306:A:PX4:C27	16	1.64
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	1	1.64
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	1	1.64
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	1	1.64
(3,36)	1:129:A:TRP:HE1	4:306:A:PX4:N1	9	1.63
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	16	1.63
(2,775)	1:61:A:ILE:HD12	1:48:A:LEU:HD21	13	1.63
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	2	1.63
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	2	1.63
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	2	1.63
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	2	1.63
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	2	1.63
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	2	1.63
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	11	1.63
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	11	1.63
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	11	1.63
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	16	1.63
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	16	1.63
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	16	1.63
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	17	1.63
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	17	1.63
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	17	1.63
(3,25)	1:108:A:LEU:H	4:349:A:PX4:C35	20	1.62
(3,9)	1:128:A:VAL:H	4:313:A:PX4:C27	4	1.62
(3,2)	1:76:A:SER:H	4:347:A:PX4:C27	2	1.62
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	12	1.61
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	12	1.61
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	12	1.61
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	12	1.61
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	12	1.61
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	12	1.61
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD22	6	1.61
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD23	6	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD22	16	1.61
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD23	16	1.61
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	3	1.6
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	3	1.6
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	3	1.6
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	2	1.59
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	6	1.59
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	5	1.59
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	5	1.59
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	5	1.59
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	20	1.59
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	20	1.59
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	20	1.59
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	8	1.59
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	16	1.58
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	16	1.58
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	16	1.58
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	1	1.58
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	14	1.58
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	14	1.58
(2,257)	1:112:A:ALA:H	1:189:A:LEU:HD21	5	1.58
(3,24)	1:106:A:ASP:H	4:339:A:PX4:C35	10	1.57
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	1	1.57
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	7	1.57
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	4	1.57
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	4	1.57
(2,777)	1:61:A:ILE:HD13	1:48:A:LEU:HD21	16	1.57
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	8	1.57
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	16	1.57
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	2	1.57
(3,16)	1:153:A:GLY:H	4:323:A:PX4:C27	11	1.56
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	14	1.56
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	5	1.56
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	9	1.55
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	9	1.55
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	3	1.55
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	17	1.55
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	10	1.55
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	10	1.55
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	10	1.55
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	12	1.55
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	12	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	10	1.54
(3,36)	1:129:A:TRP:HE1	4:313:A:PX4:N1	1	1.53
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	12	1.53
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	12	1.53
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	12	1.53
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	4	1.53
(2,869)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	12	1.53
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	13	1.53
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	8	1.52
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	8	1.52
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	8	1.52
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	17	1.52
(2,871)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	16	1.52
(2,870)	1:186:A:ILE:HD12	1:156:A:LEU:HD22	1	1.52
(2,870)	1:186:A:ILE:HD12	1:156:A:LEU:HD23	1	1.52
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	19	1.52
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	19	1.52
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	19	1.52
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	19	1.52
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	19	1.52
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	19	1.52
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	19	1.52
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	19	1.52
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	11	1.52
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	19	1.52
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	19	1.52
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	19	1.52
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	2	1.52
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	2	1.52
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	16	1.52
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	16	1.52
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	16	1.52
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	10	1.51
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	10	1.51
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	10	1.51
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	12	1.51
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	1	1.51
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	1	1.51
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	15	1.5
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	15	1.5
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	15	1.5
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	15	1.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	20	1.49
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	20	1.49
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	18	1.49
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	18	1.49
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	18	1.49
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	13	1.48
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	13	1.48
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	5	1.48
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	17	1.48
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	17	1.48
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	17	1.48
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	17	1.48
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	17	1.48
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	17	1.48
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	17	1.48
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	17	1.48
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	17	1.48
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	20	1.48
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	20	1.48
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	20	1.48
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	20	1.48
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	20	1.48
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	20	1.48
(2,982)	1:78:A:PHE:HD1	1:80:A:ASN:H	7	1.47
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	15	1.47
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	20	1.47
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	20	1.47
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	10	1.47
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	3	1.47
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	4	1.47
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	17	1.47
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	17	1.47
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	10	1.47
(2,257)	1:112:A:ALA:H	1:189:A:LEU:HD21	17	1.47
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	7	1.47
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	8	1.46
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	8	1.46
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	6	1.46
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	6	1.46
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	6	1.46
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	3	1.46
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	2	1.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	2	1.45
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	3	1.45
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	3	1.45
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	3	1.45
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	15	1.45
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	3	1.45
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	8	1.44
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	5	1.44
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	4	1.44
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	19	1.43
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	19	1.43
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	1	1.43
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	1	1.43
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	1	1.43
(2,775)	1:61:A:ILE:HD12	1:48:A:LEU:HD21	18	1.43
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	8	1.43
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	8	1.43
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	8	1.43
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	8	1.43
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	8	1.43
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	8	1.43
(3,29)	1:129:A:TRP:HE1	4:306:A:PX4:C35	7	1.42
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	11	1.42
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	11	1.42
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	12	1.42
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	12	1.42
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	12	1.42
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	12	1.42
(3,30)	1:145:A:ASP:H	4:331:A:PX4:C35	8	1.41
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	10	1.41
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	10	1.41
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	4	1.41
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	4	1.41
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	4	1.41
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	17	1.41
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	17	1.41
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	17	1.41
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	18	1.41
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	4	1.41
(2,869)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	1	1.41
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	7	1.41
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	15	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	15	1.4
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	15	1.4
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	15	1.4
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	8	1.4
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	8	1.4
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	8	1.4
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	9	1.4
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	9	1.4
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	9	1.4
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	18	1.4
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	18	1.4
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	18	1.4
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	14	1.4
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	6	1.4
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	6	1.4
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	3	1.4
(2,748)	1:89:A:VAL:HG12	1:122:A:LEU:HD21	9	1.4
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD22	17	1.4
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD23	17	1.4
(3,36)	1:129:A:TRP:HE1	4:313:A:PX4:N1	10	1.39
(3,2)	1:76:A:SER:H	4:329:A:PX4:C27	16	1.39
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	15	1.39
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	15	1.39
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	15	1.39
(2,83)	1:58:A:VAL:H	1:48:A:LEU:HD22	16	1.39
(2,83)	1:58:A:VAL:H	1:48:A:LEU:HD23	16	1.39
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	13	1.38
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	13	1.38
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	13	1.38
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	12	1.38
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	12	1.38
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	12	1.38
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	5	1.38
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	5	1.38
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	16	1.38
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	11	1.38
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	11	1.38
(3,16)	1:153:A:GLY:H	4:323:A:PX4:C27	10	1.37
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	1	1.37
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	1	1.37
(2,861)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	8	1.37
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD22	5	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD23	5	1.37
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	12	1.37
(3,28)	1:129:A:TRP:H	4:306:A:PX4:C35	7	1.36
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	1	1.36
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	1	1.36
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	3	1.36
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	3	1.36
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	14	1.36
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	14	1.36
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	13	1.36
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	4	1.36
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	9	1.36
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	9	1.36
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	9	1.36
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	5	1.35
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	5	1.35
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	14	1.35
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	14	1.35
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	3	1.35
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	13	1.35
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	13	1.35
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	20	1.35
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	20	1.35
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	20	1.35
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	2	1.35
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	2	1.35
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	2	1.35
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	3	1.35
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	3	1.35
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	3	1.35
(3,27)	1:128:A:VAL:CG2	4:345:A:PX4:C35	3	1.34
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	11	1.34
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	2	1.34
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	2	1.34
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	2	1.34
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	14	1.34
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	14	1.34
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	14	1.34
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	18	1.34
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	18	1.34
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	18	1.34
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	10	1.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD22	4	1.34
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD23	4	1.34
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	2	1.34
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	14	1.34
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	20	1.34
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	4	1.33
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	4	1.33
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	8	1.33
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	8	1.33
(2,773)	1:61:A:ILE:HD11	1:48:A:LEU:HD21	13	1.33
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	16	1.33
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	10	1.32
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	10	1.32
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	19	1.32
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	19	1.32
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	19	1.32
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	4	1.32
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	4	1.32
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	4	1.32
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	19	1.32
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	13	1.32
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	13	1.32
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	13	1.32
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	13	1.32
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	13	1.32
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	13	1.32
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	12	1.32
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	18	1.32
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	5	1.31
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	5	1.31
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	5	1.31
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	10	1.31
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	10	1.31
(2,750)	1:89:A:VAL:HG13	1:122:A:LEU:HD21	12	1.31
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	14	1.31
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	11	1.31
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	15	1.3
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	15	1.3
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	7	1.3
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	7	1.3
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	7	1.3
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD22	6	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD23	6	1.3
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	2	1.3
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	2	1.3
(3,25)	1:108:A:LEU:H	4:339:A:PX4:C35	17	1.29
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	16	1.29
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	16	1.29
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	2	1.29
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	11	1.29
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	11	1.29
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	11	1.29
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	19	1.29
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	15	1.29
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	15	1.29
(2,774)	1:61:A:ILE:HD11	1:48:A:LEU:HD22	16	1.29
(2,774)	1:61:A:ILE:HD11	1:48:A:LEU:HD23	16	1.29
(2,773)	1:61:A:ILE:HD11	1:48:A:LEU:HD21	4	1.29
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	17	1.29
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	17	1.29
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	16	1.29
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	4	1.29
(3,36)	1:129:A:TRP:HE1	4:313:A:PX4:N1	13	1.28
(2,982)	1:78:A:PHE:HD1	1:80:A:ASN:H	1	1.28
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	4	1.28
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	4	1.28
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	13	1.28
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	13	1.28
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	2	1.28
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	8	1.28
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	9	1.28
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	9	1.28
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	11	1.27
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	20	1.27
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	20	1.27
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	20	1.27
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	18	1.27
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	6	1.26
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	6	1.26
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	9	1.26
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	3	1.26
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	3	1.26
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD22	11	1.26
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD23	11	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	18	1.26
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	18	1.26
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	18	1.26
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	18	1.26
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	18	1.26
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	18	1.26
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	11	1.26
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	11	1.26
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	11	1.26
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	11	1.26
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	11	1.26
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	11	1.26
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	15	1.26
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	11	1.25
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	11	1.25
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD22	9	1.25
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD23	9	1.25
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	18	1.25
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	18	1.25
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	18	1.25
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	19	1.25
(3,9)	1:128:A:VAL:H	4:313:A:PX4:C27	14	1.24
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	3	1.24
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	3	1.24
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	14	1.24
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	1	1.24
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	1	1.24
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	10	1.24
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	10	1.24
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	14	1.24
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	18	1.24
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	12	1.24
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	14	1.24
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	16	1.23
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	18	1.23
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	3	1.23
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	17	1.22
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	17	1.22
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	17	1.22
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	17	1.22
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	17	1.22
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	19	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	11	1.22
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	6	1.22
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	20	1.22
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	6	1.22
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	1	1.21
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	13	1.21
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	1	1.21
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	1	1.21
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	13	1.21
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	13	1.21
(2,940)	1:73:A:ALA:HB1	1:75:A:TYR:H	16	1.21
(2,940)	1:73:A:ALA:HB2	1:75:A:TYR:H	16	1.21
(2,940)	1:73:A:ALA:HB3	1:75:A:TYR:H	16	1.21
(2,869)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	14	1.21
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD22	20	1.21
(2,837)	1:120:A:ILE:HD13	1:200:A:LEU:HD23	20	1.21
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	14	1.21
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	14	1.21
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	4	1.21
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	1	1.21
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	5	1.21
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	16	1.21
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	14	1.21
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	14	1.21
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	14	1.21
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	3	1.21
(3,22)	1:100:A:LEU:CD2	4:325:A:PX4:C35	10	1.2
(3,16)	1:153:A:GLY:H	4:331:A:PX4:C27	8	1.2
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	7	1.2
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	7	1.2
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	7	1.2
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	7	1.2
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	5	1.2
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	5	1.2
(2,861)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	6	1.2
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	19	1.2
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	19	1.2
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	19	1.2
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	19	1.2
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	19	1.2
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	19	1.2
(2,733)	1:196:A:LEU:HD21	1:113:A:LEU:HD21	13	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	20	1.2
(3,16)	1:153:A:GLY:H	4:355:A:PX4:C27	2	1.19
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	2	1.19
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	2	1.19
(2,967)	1:77:A:LEU:H	1:77:A:LEU:HG	8	1.19
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	19	1.19
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	19	1.19
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	16	1.19
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	16	1.19
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	15	1.19
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	15	1.19
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	7	1.19
(2,869)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	6	1.19
(2,842)	1:200:A:LEU:HD21	1:122:A:LEU:HD21	18	1.19
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD22	15	1.19
(2,657)	1:39:A:LEU:H	1:19:A:LEU:HD23	15	1.19
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	10	1.19
(2,507)	1:199:A:SER:H	1:202:A:MET:H	13	1.19
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	18	1.19
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	12	1.19
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	20	1.18
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	20	1.18
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	9	1.18
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	9	1.18
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	6	1.18
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	7	1.18
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	7	1.18
(2,671)	1:66:A:ARG:H	1:156:A:LEU:HD21	7	1.18
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	4	1.18
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	7	1.18
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	7	1.18
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	7	1.18
(2,257)	1:112:A:ALA:H	1:189:A:LEU:HD21	20	1.18
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	12	1.18
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	13	1.17
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	17	1.17
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	17	1.17
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	17	1.17
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	4	1.17
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	11	1.17
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	11	1.17
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	13	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	13	1.16
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG21	17	1.16
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG22	17	1.16
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG23	17	1.16
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	9	1.16
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	9	1.16
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	9	1.16
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	18	1.15
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	2	1.15
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	9	1.15
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	17	1.15
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	4	1.15
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	4	1.15
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	4	1.15
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	2	1.15
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	18	1.15
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	15	1.15
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	14	1.14
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	14	1.14
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	14	1.14
(2,507)	1:199:A:SER:H	1:202:A:MET:H	1	1.14
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	5	1.14
(2,971)	1:77:A:LEU:HB3	1:78:A:PHE:H	12	1.13
(2,971)	1:77:A:LEU:HB3	1:78:A:PHE:H	12	1.13
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	9	1.13
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	2	1.13
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	2	1.13
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	18	1.13
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	18	1.13
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	14	1.13
(2,846)	1:200:A:LEU:HD23	1:122:A:LEU:HD21	18	1.13
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG11	12	1.13
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG12	12	1.13
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG13	12	1.13
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG11	12	1.13
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG12	12	1.13
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG13	12	1.13
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	20	1.13
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	20	1.13
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	19	1.13
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	10	1.13
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	10	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	10	1.13
(2,988)	1:129:A:TRP:HE1	4:306:A:PX4:C2	19	1.12
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	3	1.12
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	3	1.12
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	3	1.12
(2,773)	1:61:A:ILE:HD11	1:48:A:LEU:HD21	11	1.12
(2,730)	1:211:A:VAL:HG12	1:226:A:LEU:HD22	6	1.12
(2,730)	1:211:A:VAL:HG12	1:226:A:LEU:HD23	6	1.12
(2,725)	1:113:A:LEU:HD13	1:196:A:LEU:HD21	7	1.12
(2,723)	1:113:A:LEU:HD12	1:196:A:LEU:HD21	7	1.12
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	15	1.12
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	15	1.12
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	15	1.12
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	6	1.12
(2,257)	1:112:A:ALA:H	1:189:A:LEU:HD21	13	1.12
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	8	1.12
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	8	1.12
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	8	1.12
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	19	1.11
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	19	1.11
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	19	1.11
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	19	1.11
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	19	1.11
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	3	1.11
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	3	1.11
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	3	1.11
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	3	1.11
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	3	1.11
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	3	1.11
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	19	1.11
(2,846)	1:200:A:LEU:HD23	1:122:A:LEU:HD21	9	1.11
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	1	1.11
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	9	1.1
(2,861)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	19	1.1
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	10	1.1
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	10	1.1
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	10	1.1
(3,36)	1:129:A:TRP:HE1	4:306:A:PX4:N1	15	1.09
(3,16)	1:153:A:GLY:H	4:321:A:PX4:C27	6	1.09
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	15	1.09
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	4	1.09
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	4	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	4	1.09
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	4	1.09
(2,869)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	19	1.09
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	19	1.09
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	19	1.09
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	19	1.09
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	19	1.09
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	19	1.09
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	19	1.09
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	19	1.09
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	19	1.09
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	19	1.09
(2,777)	1:61:A:ILE:HD13	1:48:A:LEU:HD21	10	1.09
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	3	1.09
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	3	1.09
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	3	1.09
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	3	1.09
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	3	1.09
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	3	1.09
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	14	1.09
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	14	1.09
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	14	1.09
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	13	1.09
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	19	1.09
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	6	1.09
(3,25)	1:108:A:LEU:H	4:339:A:PX4:C35	7	1.08
(3,16)	1:153:A:GLY:H	4:331:A:PX4:C27	3	1.08
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	6	1.08
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	20	1.08
(2,774)	1:61:A:ILE:HD11	1:48:A:LEU:HD22	18	1.08
(2,774)	1:61:A:ILE:HD11	1:48:A:LEU:HD23	18	1.08
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD22	8	1.08
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD23	8	1.08
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	3	1.08
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	3	1.08
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	3	1.08
(2,730)	1:211:A:VAL:HG12	1:226:A:LEU:HD22	7	1.08
(2,730)	1:211:A:VAL:HG12	1:226:A:LEU:HD23	7	1.08
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	3	1.08
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	9	1.07
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	9	1.07
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	4	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	4	1.07
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	4	1.07
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	9	1.07
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	9	1.07
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	9	1.07
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	9	1.07
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	13	1.07
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	2	1.07
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	2	1.07
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	2	1.07
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	2	1.07
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	2	1.07
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	2	1.07
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	7	1.07
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	7	1.07
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	7	1.07
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	7	1.07
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	7	1.07
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	7	1.07
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	19	1.07
(2,257)	1:112:A:ALA:H	1:189:A:LEU:HD21	15	1.07
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	8	1.07
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	10	1.07
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	8	1.07
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	18	1.06
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	18	1.06
(2,750)	1:89:A:VAL:HG13	1:122:A:LEU:HD21	18	1.06
(2,735)	1:196:A:LEU:HD22	1:113:A:LEU:HD21	18	1.06
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	8	1.06
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	8	1.06
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	8	1.06
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	14	1.06
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	1	1.06
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	1	1.06
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	1	1.06
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	16	1.06
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	16	1.06
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	16	1.06
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	1	1.06
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	2	1.05
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	2	1.05
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	2	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	2	1.05
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	2	1.05
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	2	1.05
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	20	1.05
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	12	1.05
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	12	1.05
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	12	1.05
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	12	1.05
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	12	1.05
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	12	1.05
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	12	1.05
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	12	1.05
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	12	1.05
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	9	1.05
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	3	1.05
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	16	1.04
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	16	1.04
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	16	1.04
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	16	1.04
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	11	1.04
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	3	1.04
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	3	1.04
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	3	1.04
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	3	1.04
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	3	1.04
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	3	1.04
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	3	1.04
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	3	1.04
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	3	1.04
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	11	1.04
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	11	1.04
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	11	1.04
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	11	1.04
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	11	1.04
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	11	1.04
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	11	1.04
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	11	1.04
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	11	1.04
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD22	9	1.04
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD23	9	1.04
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	10	1.04
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	13	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	11	1.03
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	11	1.03
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	16	1.03
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	1	1.03
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	1	1.03
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	1	1.03
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	1	1.03
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	10	1.03
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	10	1.03
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	10	1.03
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	10	1.03
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	10	1.03
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	10	1.03
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	10	1.03
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	10	1.03
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	10	1.03
(2,777)	1:61:A:ILE:HD13	1:48:A:LEU:HD21	9	1.03
(2,773)	1:61:A:ILE:HD11	1:48:A:LEU:HD21	10	1.03
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	19	1.03
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	19	1.03
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	19	1.03
(2,746)	1:89:A:VAL:HG11	1:122:A:LEU:HD21	15	1.03
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD22	1	1.03
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD23	1	1.03
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	7	1.03
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	13	1.03
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	19	1.03
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	5	1.03
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	5	1.03
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	5	1.03
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	15	1.02
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	15	1.02
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	15	1.02
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	15	1.02
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD22	5	1.02
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD23	5	1.02
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	7	1.02
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	17	1.02
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	14	1.02
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	14	1.02
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	6	1.01
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	6	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	6	1.01
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	17	1.01
(2,774)	1:61:A:ILE:HD11	1:48:A:LEU:HD22	9	1.01
(2,774)	1:61:A:ILE:HD11	1:48:A:LEU:HD23	9	1.01
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD22	13	1.01
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD23	13	1.01
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	3	1.01
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	7	1.01
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	16	1.01
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	17	1.01
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	6	1.0
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	6	1.0
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	6	1.0
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	6	1.0
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	2	1.0
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	2	1.0
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	2	1.0
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	14	1.0
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	14	1.0
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	14	1.0
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	9	1.0
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	11	1.0
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	2	0.99
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	6	0.99
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	6	0.99
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	6	0.99
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	18	0.99
(2,869)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	8	0.99
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	12	0.99
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	12	0.99
(2,746)	1:89:A:VAL:HG11	1:122:A:LEU:HD21	6	0.99
(2,543)	1:210:A:ALA:H	1:213:A:TYR:H	13	0.99
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	18	0.99
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	19	0.99
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	15	0.99
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	8	0.98
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	8	0.98
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD11	17	0.98
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD12	17	0.98
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD13	17	0.98
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	12	0.98
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	12	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	6	0.98
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	6	0.98
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	6	0.98
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	6	0.98
(2,861)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	1	0.98
(2,708)	1:226:A:LEU:HD11	1:231:A:ILE:HG13	19	0.98
(2,708)	1:226:A:LEU:HD12	1:231:A:ILE:HG13	19	0.98
(2,708)	1:226:A:LEU:HD13	1:231:A:ILE:HG13	19	0.98
(2,708)	1:226:A:LEU:HD11	1:231:A:ILE:HG12	19	0.98
(2,708)	1:226:A:LEU:HD12	1:231:A:ILE:HG12	19	0.98
(2,708)	1:226:A:LEU:HD13	1:231:A:ILE:HG12	19	0.98
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	13	0.98
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	1	0.97
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	10	0.97
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	10	0.97
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	7	0.97
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	16	0.97
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	1	0.97
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	1	0.97
(2,775)	1:61:A:ILE:HD12	1:48:A:LEU:HD21	16	0.97
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	2	0.97
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	2	0.97
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	2	0.97
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	5	0.97
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD22	19	0.97
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD23	19	0.97
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	17	0.97
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	11	0.97
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	19	0.96
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	2	0.96
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	14	0.96
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	14	0.96
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	14	0.96
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	14	0.96
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	17	0.96
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	17	0.96
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	17	0.96
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	17	0.96
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	8	0.96
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	8	0.96
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	8	0.96
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	8	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	8	0.96
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	8	0.96
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	8	0.96
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	8	0.96
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	8	0.96
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD22	17	0.96
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD23	17	0.96
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	5	0.96
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	9	0.96
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	14	0.96
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	11	0.96
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	11	0.96
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	11	0.96
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG13	17	0.96
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG12	17	0.96
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	10	0.95
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	10	0.95
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	11	0.95
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	11	0.95
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	3	0.95
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	3	0.95
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	3	0.95
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	4	0.95
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	8	0.95
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	20	0.95
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	20	0.95
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	2	0.95
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	2	0.95
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	2	0.95
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	2	0.95
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD22	12	0.95
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD23	12	0.95
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD22	19	0.95
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD23	19	0.95
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	5	0.95
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	5	0.95
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	5	0.95
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	5	0.95
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	5	0.95
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	5	0.95
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	10	0.95
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	10	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	10	0.95
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	10	0.95
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	10	0.95
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	10	0.95
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	7	0.95
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	3	0.95
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	3	0.95
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	3	0.95
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	17	0.95
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	18	0.94
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	18	0.94
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	19	0.94
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	3	0.94
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	3	0.94
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	3	0.94
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	8	0.94
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	8	0.94
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	8	0.94
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	8	0.94
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	8	0.94
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	8	0.94
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	6	0.94
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	4	0.94
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	4	0.94
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	4	0.94
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	10	0.94
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	6	0.93
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	19	0.93
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	6	0.93
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	6	0.93
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	5	0.93
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	5	0.93
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	5	0.93
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	12	0.93
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	12	0.93
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	12	0.93
(2,932)	1:72:A:VAL:HG11	1:76:A:SER:H	9	0.93
(2,932)	1:72:A:VAL:HG12	1:76:A:SER:H	9	0.93
(2,932)	1:72:A:VAL:HG13	1:76:A:SER:H	9	0.93
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	14	0.93
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	14	0.93
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	14	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	14	0.93
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	14	0.93
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	14	0.93
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	14	0.93
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	14	0.93
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	14	0.93
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	1	0.93
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	1	0.93
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	1	0.93
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	1	0.93
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	1	0.93
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	1	0.93
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	10	0.93
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	4	0.93
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	19	0.93
(3,22)	1:100:A:LEU:CD2	4:325:A:PX4:C35	3	0.92
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	15	0.92
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	12	0.92
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	12	0.92
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	9	0.92
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	9	0.92
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	13	0.92
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	13	0.92
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	13	0.92
(2,902)	1:66:A:ARG:HA	1:68:A:GLY:H	20	0.92
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	15	0.92
(2,718)	1:54:A:LEU:HD11	1:59:A:ILE:HD11	2	0.92
(2,718)	1:54:A:LEU:HD11	1:59:A:ILE:HD12	2	0.92
(2,718)	1:54:A:LEU:HD11	1:59:A:ILE:HD13	2	0.92
(2,718)	1:54:A:LEU:HD12	1:59:A:ILE:HD11	2	0.92
(2,718)	1:54:A:LEU:HD12	1:59:A:ILE:HD12	2	0.92
(2,718)	1:54:A:LEU:HD12	1:59:A:ILE:HD13	2	0.92
(2,718)	1:54:A:LEU:HD13	1:59:A:ILE:HD11	2	0.92
(2,718)	1:54:A:LEU:HD13	1:59:A:ILE:HD12	2	0.92
(2,718)	1:54:A:LEU:HD13	1:59:A:ILE:HD13	2	0.92
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	2	0.92
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	19	0.92
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	7	0.92
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	10	0.92
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	10	0.92
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	10	0.92
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	12	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	16	0.92
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	15	0.92
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	6	0.92
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	8	0.92
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	8	0.92
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	8	0.92
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	4	0.92
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	2	0.91
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	2	0.91
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	7	0.91
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	16	0.91
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	16	0.91
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	16	0.91
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	16	0.91
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD11	16	0.91
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD12	16	0.91
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD13	16	0.91
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD11	16	0.91
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD12	16	0.91
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD13	16	0.91
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD11	16	0.91
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD12	16	0.91
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD13	16	0.91
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	2	0.91
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	2	0.91
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	8	0.91
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	8	0.91
(2,746)	1:89:A:VAL:HG11	1:122:A:LEU:HD21	13	0.91
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	11	0.91
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	11	0.91
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	11	0.91
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	17	0.91
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	17	0.91
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	17	0.91
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	17	0.9
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	5	0.9
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	18	0.9
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	18	0.9
(2,872)	1:186:A:ILE:HD13	1:156:A:LEU:HD22	6	0.9
(2,872)	1:186:A:ILE:HD13	1:156:A:LEU:HD23	6	0.9
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	1	0.9
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	6	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	6	0.9
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	6	0.9
(2,507)	1:199:A:SER:H	1:202:A:MET:H	10	0.9
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	11	0.9
(2,369)	1:143:A:HIS:H	1:145:A:ASP:H	1	0.9
(2,316)	1:125:A:ARG:H	1:89:A:VAL:H	11	0.9
(2,162)	1:125:A:ARG:H	1:89:A:VAL:H	11	0.9
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	20	0.9
(3,16)	1:153:A:GLY:H	4:355:A:PX4:C27	9	0.89
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	20	0.89
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	7	0.89
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	7	0.89
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	7	0.89
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	16	0.89
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	16	0.89
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	5	0.89
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	5	0.89
(2,750)	1:89:A:VAL:HG13	1:122:A:LEU:HD21	4	0.89
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	13	0.89
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	13	0.89
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	13	0.89
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	2	0.89
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	17	0.88
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	17	0.88
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	8	0.88
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	8	0.88
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	5	0.88
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	5	0.88
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	14	0.88
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	14	0.88
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	14	0.88
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	14	0.88
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	14	0.88
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	5	0.88
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	5	0.88
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	5	0.88
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	15	0.88
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	15	0.88
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD22	14	0.88
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD23	14	0.88
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	4	0.88
(3,16)	1:153:A:GLY:H	4:321:A:PX4:C27	15	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	12	0.87
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	15	0.87
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	15	0.87
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	7	0.87
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	12	0.87
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	12	0.87
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	12	0.87
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	12	0.87
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	12	0.87
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	12	0.87
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	6	0.87
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	18	0.87
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	13	0.87
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	12	0.87
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	12	0.87
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	19	0.87
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	19	0.87
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	19	0.87
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	19	0.87
(2,872)	1:186:A:ILE:HD13	1:156:A:LEU:HD22	8	0.87
(2,872)	1:186:A:ILE:HD13	1:156:A:LEU:HD23	8	0.87
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	4	0.87
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	4	0.87
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	3	0.87
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	3	0.87
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD11	3	0.87
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD12	3	0.87
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD13	3	0.87
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD11	3	0.87
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD12	3	0.87
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD13	3	0.87
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD11	3	0.87
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD12	3	0.87
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD13	3	0.87
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	1	0.87
(2,507)	1:199:A:SER:H	1:202:A:MET:H	7	0.87
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	17	0.87
(2,125)	1:157:A:ALA:H	1:68:A:GLY:H	16	0.87
(2,988)	1:129:A:TRP:HE1	4:313:A:PX4:C1	9	0.86
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	2	0.86
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	2	0.86
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	4	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	4	0.86
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	9	0.86
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	9	0.86
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	9	0.86
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	18	0.86
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	18	0.86
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	18	0.86
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	19	0.86
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	19	0.86
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	19	0.86
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	3	0.86
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	3	0.86
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	3	0.86
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	3	0.86
(2,870)	1:186:A:ILE:HD12	1:156:A:LEU:HD22	12	0.86
(2,870)	1:186:A:ILE:HD12	1:156:A:LEU:HD23	12	0.86
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	4	0.86
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	4	0.86
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	4	0.86
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	1	0.86
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	1	0.86
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	1	0.86
(2,737)	1:196:A:LEU:HD23	1:113:A:LEU:HD21	5	0.86
(2,737)	1:196:A:LEU:HD23	1:113:A:LEU:HD21	13	0.86
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD22	4	0.86
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD23	4	0.86
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	17	0.86
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	17	0.86
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	17	0.86
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	16	0.86
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	7	0.86
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	12	0.86
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	12	0.86
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	12	0.86
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	12	0.86
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	12	0.86
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	12	0.86
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	12	0.86
(3,3)	1:77:A:LEU:H	4:335:A:PX4:C27	15	0.85
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	4	0.85
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	1	0.85
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	1	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	1	0.85
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	3	0.85
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	3	0.85
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	3	0.85
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	13	0.85
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	13	0.85
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	13	0.85
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	7	0.85
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	7	0.85
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	7	0.85
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	20	0.85
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	20	0.85
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	5	0.85
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	5	0.85
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	5	0.85
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	5	0.85
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	18	0.85
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	18	0.85
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	18	0.85
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD11	15	0.85
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD12	15	0.85
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD13	15	0.85
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD11	15	0.85
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD12	15	0.85
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD13	15	0.85
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD11	15	0.85
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD12	15	0.85
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD13	15	0.85
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD22	18	0.85
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD23	18	0.85
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	5	0.85
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	5	0.85
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	5	0.85
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	13	0.85
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	1	0.85
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	1	0.85
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	1	0.85
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	10	0.85
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	16	0.84
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	16	0.84
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	18	0.84
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	18	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	8	0.84
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	8	0.84
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	8	0.84
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	8	0.84
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	13	0.84
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	13	0.84
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	13	0.84
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	13	0.84
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	9	0.84
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD11	6	0.84
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD12	6	0.84
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD13	6	0.84
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD11	6	0.84
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD12	6	0.84
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD13	6	0.84
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD11	6	0.84
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD12	6	0.84
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD13	6	0.84
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	12	0.84
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	12	0.84
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	12	0.84
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	3	0.84
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	3	0.84
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	2	0.84
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	8	0.84
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	8	0.84
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	8	0.84
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	2	0.84
(3,29)	1:129:A:TRP:HE1	4:361:A:PX4:C35	8	0.83
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	11	0.83
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	17	0.83
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	17	0.83
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	11	0.83
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	11	0.83
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	11	0.83
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	18	0.83
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	18	0.83
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	18	0.83
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	18	0.83
(2,788)	1:58:A:VAL:HG11	1:39:A:LEU:HD21	20	0.83
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	6	0.83
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	15	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD11	8	0.82
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD12	8	0.82
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD13	8	0.82
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	7	0.82
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	7	0.82
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	7	0.82
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	9	0.82
(2,894)	1:64:A:LYS:H	1:64:A:LYS:HG3	18	0.82
(2,894)	1:64:A:LYS:H	1:64:A:LYS:HG3	18	0.82
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	15	0.82
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	15	0.82
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	15	0.82
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	15	0.82
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	6	0.82
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	17	0.82
(2,735)	1:196:A:LEU:HD22	1:113:A:LEU:HD21	5	0.82
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	5	0.82
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	13	0.82
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	19	0.81
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	19	0.81
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	20	0.81
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	20	0.81
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	10	0.81
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	2	0.81
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	2	0.81
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	2	0.81
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	11	0.81
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	11	0.81
(2,907)	1:68:A:GLY:H	1:69:A:VAL:H	3	0.81
(2,842)	1:200:A:LEU:HD21	1:122:A:LEU:HD21	20	0.81
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	3	0.81
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	19	0.81
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	19	0.81
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	19	0.81
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD22	20	0.81
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD23	20	0.81
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	2	0.81
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	6	0.81
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	6	0.8
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	6	0.8
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	11	0.8
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	11	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	15	0.8
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	15	0.8
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	15	0.8
(2,920)	1:72:A:VAL:H	1:71:A:ASP:H	5	0.8
(2,920)	1:72:A:VAL:H	1:71:A:ASP:H	5	0.8
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	10	0.8
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	10	0.8
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	13	0.8
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	13	0.8
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	13	0.8
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	13	0.8
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	13	0.8
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	13	0.8
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	20	0.8
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	20	0.8
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	20	0.8
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	20	0.8
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	20	0.8
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	20	0.8
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	14	0.8
(2,777)	1:61:A:ILE:HD13	1:48:A:LEU:HD21	4	0.8
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	5	0.8
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	5	0.8
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	5	0.8
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	11	0.8
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	11	0.8
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	11	0.8
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG21	10	0.8
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG22	10	0.8
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG23	10	0.8
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG21	19	0.8
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG22	19	0.8
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG23	19	0.8
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	8	0.8
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	13	0.8
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	13	0.8
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	13	0.8
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	5	0.8
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	5	0.8
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	20	0.8
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	20	0.8
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	6	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	6	0.79
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	17	0.79
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	17	0.79
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	8	0.79
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	8	0.79
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	8	0.79
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	11	0.79
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	11	0.79
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	11	0.79
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	11	0.79
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	11	0.79
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	11	0.79
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	15	0.79
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	15	0.79
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	20	0.79
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	20	0.79
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	20	0.79
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	20	0.79
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	15	0.79
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	16	0.79
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	19	0.79
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	20	0.79
(2,258)	1:112:A:ALA:H	1:189:A:LEU:HD22	19	0.79
(2,258)	1:112:A:ALA:H	1:189:A:LEU:HD23	19	0.79
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	15	0.79
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	15	0.79
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	15	0.79
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	2	0.79
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	2	0.79
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	2	0.79
(2,83)	1:58:A:VAL:H	1:48:A:LEU:HD22	18	0.79
(2,83)	1:58:A:VAL:H	1:48:A:LEU:HD23	18	0.79
(2,988)	1:129:A:TRP:HE1	4:313:A:PX4:C2	17	0.78
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	2	0.78
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	2	0.78
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	2	0.78
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	2	0.78
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	6	0.78
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	7	0.78
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	7	0.78
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	7	0.78
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	11	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	4	0.78
(2,775)	1:61:A:ILE:HD12	1:48:A:LEU:HD21	9	0.78
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG11	2	0.78
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG12	2	0.78
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG13	2	0.78
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG11	2	0.78
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG12	2	0.78
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG13	2	0.78
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	13	0.78
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	13	0.78
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	13	0.78
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	9	0.78
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	10	0.78
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	10	0.78
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	10	0.78
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	17	0.78
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD22	19	0.78
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD23	19	0.78
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	14	0.78
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	14	0.78
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	14	0.78
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	1	0.78
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	5	0.78
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	1	0.78
(2,229)	1:106:A:ASP:H	1:109:A:VAL:H	20	0.78
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	20	0.78
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	4	0.78
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	11	0.78
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	19	0.78
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	5	0.77
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	5	0.77
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	5	0.77
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	3	0.77
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	3	0.77
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	19	0.77
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	19	0.77
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	11	0.77
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	11	0.77
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	11	0.77
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	11	0.77
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	4	0.77
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	2	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	2	0.77
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	2	0.77
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	2	0.77
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	2	0.77
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	2	0.77
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	2	0.77
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	2	0.77
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	2	0.77
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	13	0.77
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	13	0.77
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	13	0.77
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	13	0.77
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	13	0.77
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	13	0.77
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	13	0.77
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	13	0.77
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	13	0.77
(2,634)	1:54:A:LEU:HD11	1:12:A:TRP:HE1	3	0.77
(2,634)	1:54:A:LEU:HD12	1:12:A:TRP:HE1	3	0.77
(2,634)	1:54:A:LEU:HD13	1:12:A:TRP:HE1	3	0.77
(2,504)	1:198:A:HIS:H	1:202:A:MET:H	13	0.77
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	9	0.77
(2,369)	1:143:A:HIS:H	1:145:A:ASP:H	20	0.77
(3,28)	1:129:A:TRP:H	4:306:A:PX4:C35	18	0.76
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	16	0.76
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	11	0.76
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	11	0.76
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD11	15	0.76
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD12	15	0.76
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD13	15	0.76
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	20	0.76
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	20	0.76
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	16	0.76
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	16	0.76
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	16	0.76
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	8	0.76
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	9	0.76
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	9	0.76
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	10	0.76
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	10	0.76
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	10	0.76
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	10	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	8	0.76
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	8	0.76
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	19	0.76
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	19	0.76
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	3	0.76
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	18	0.76
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	18	0.76
(2,507)	1:199:A:SER:H	1:202:A:MET:H	15	0.76
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	9	0.76
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	4	0.75
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	4	0.75
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	12	0.75
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	12	0.75
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	4	0.75
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	7	0.75
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	7	0.75
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	9	0.75
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	9	0.75
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	3	0.75
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	3	0.75
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	2	0.75
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	18	0.75
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	18	0.75
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	18	0.75
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	18	0.75
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	18	0.75
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	18	0.75
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	18	0.75
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	18	0.75
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	18	0.75
(2,746)	1:89:A:VAL:HG11	1:122:A:LEU:HD21	12	0.75
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	16	0.75
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	16	0.75
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	1	0.75
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	5	0.75
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	5	0.75
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	5	0.75
(3,5)	1:77:A:LEU:CD2	4:355:A:PX4:C27	9	0.74
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	20	0.74
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	20	0.74
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	4	0.74
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	5	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	5	0.74
(2,928)	1:72:A:VAL:H	1:73:A:ALA:HB1	12	0.74
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	3	0.74
(2,869)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	16	0.74
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	15	0.74
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	15	0.74
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	15	0.74
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG11	11	0.74
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG12	11	0.74
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG13	11	0.74
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG11	11	0.74
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG12	11	0.74
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG13	11	0.74
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	17	0.74
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	13	0.73
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	13	0.73
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	20	0.73
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	14	0.73
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	14	0.73
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	4	0.73
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	4	0.73
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	4	0.73
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	16	0.73
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	16	0.73
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	16	0.73
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	18	0.73
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	18	0.73
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	18	0.73
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	20	0.73
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	20	0.73
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	20	0.73
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	5	0.73
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	5	0.73
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	18	0.73
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	18	0.73
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	18	0.73
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	18	0.73
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	18	0.73
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	18	0.73
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	7	0.73
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	7	0.73
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	7	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	7	0.73
(2,790)	1:58:A:VAL:HG12	1:39:A:LEU:HD21	20	0.73
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	1	0.73
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD22	1	0.73
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD23	1	0.73
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD22	5	0.73
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD23	5	0.73
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	10	0.73
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	10	0.73
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	15	0.73
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	15	0.73
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	15	0.73
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	12	0.73
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	16	0.73
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	1	0.72
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	11	0.72
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	11	0.72
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	11	0.72
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	9	0.72
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	18	0.72
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	13	0.72
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	13	0.72
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	17	0.72
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	17	0.72
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	6	0.72
(2,844)	1:200:A:LEU:HD22	1:122:A:LEU:HD21	20	0.72
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	17	0.72
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	17	0.72
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	17	0.72
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	10	0.72
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	10	0.72
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	10	0.72
(2,543)	1:210:A:ALA:H	1:213:A:TYR:H	5	0.72
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	18	0.72
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	2	0.72
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	16	0.71
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	18	0.71
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	18	0.71
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	16	0.71
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	5	0.71
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	10	0.71
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	10	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	10	0.71
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	17	0.71
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	16	0.71
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	8	0.71
(2,570)	1:226:A:LEU:H	1:226:A:LEU:HD21	6	0.71
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	7	0.71
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	12	0.71
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	5	0.71
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	19	0.71
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	19	0.71
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	19	0.71
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD11	6	0.7
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD12	6	0.7
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD13	6	0.7
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	3	0.7
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	3	0.7
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	2	0.7
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	2	0.7
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	9	0.7
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	5	0.7
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	7	0.7
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	3	0.7
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE1	9	0.7
(2,598)	1:235:A:GLN:H	1:238:A:TYR:HE2	9	0.7
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	4	0.7
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	6	0.7
(2,305)	1:123:A:HIS:H	1:122:A:LEU:HD21	4	0.7
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	3	0.69
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	3	0.69
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	10	0.69
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	10	0.69
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	7	0.69
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	17	0.69
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	13	0.69
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	13	0.69
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	13	0.69
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	13	0.69
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	13	0.69
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	13	0.69
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	13	0.69
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	13	0.69
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	13	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	13	0.69
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	13	0.69
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	13	0.69
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	17	0.69
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	17	0.69
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	17	0.69
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	17	0.69
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	15	0.69
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	15	0.69
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	15	0.69
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	6	0.69
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	2	0.69
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	13	0.69
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	16	0.68
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	16	0.68
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	8	0.68
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	4	0.68
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	4	0.68
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	8	0.68
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	4	0.68
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	17	0.68
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	18	0.68
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	3	0.68
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	3	0.68
(2,829)	1:120:A:ILE:HD11	1:234:A:ILE:HG12	16	0.68
(2,829)	1:120:A:ILE:HD12	1:234:A:ILE:HG12	16	0.68
(2,829)	1:120:A:ILE:HD13	1:234:A:ILE:HG12	16	0.68
(2,718)	1:54:A:LEU:HD11	1:59:A:ILE:HD11	4	0.68
(2,718)	1:54:A:LEU:HD11	1:59:A:ILE:HD12	4	0.68
(2,718)	1:54:A:LEU:HD11	1:59:A:ILE:HD13	4	0.68
(2,718)	1:54:A:LEU:HD12	1:59:A:ILE:HD11	4	0.68
(2,718)	1:54:A:LEU:HD12	1:59:A:ILE:HD12	4	0.68
(2,718)	1:54:A:LEU:HD12	1:59:A:ILE:HD13	4	0.68
(2,718)	1:54:A:LEU:HD13	1:59:A:ILE:HD11	4	0.68
(2,718)	1:54:A:LEU:HD13	1:59:A:ILE:HD12	4	0.68
(2,718)	1:54:A:LEU:HD13	1:59:A:ILE:HD13	4	0.68
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	19	0.68
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	5	0.68
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	5	0.68
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	5	0.68
(2,543)	1:210:A:ALA:H	1:213:A:TYR:H	20	0.68
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD11	1	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD12	1	0.68
(2,516)	1:200:A:LEU:H	1:196:A:LEU:HD13	1	0.68
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	5	0.68
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	12	0.68
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	17	0.68
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	17	0.68
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	17	0.68
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	7	0.68
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	7	0.68
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	7	0.68
(2,125)	1:157:A:ALA:H	1:68:A:GLY:H	9	0.68
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	11	0.67
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	9	0.67
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	9	0.67
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	6	0.67
(2,948)	1:74:A:GLU:HG3	1:75:A:TYR:H	6	0.67
(2,936)	1:73:A:ALA:HB1	1:73:A:ALA:H	20	0.67
(2,936)	1:73:A:ALA:HB2	1:73:A:ALA:H	20	0.67
(2,936)	1:73:A:ALA:HB3	1:73:A:ALA:H	20	0.67
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	19	0.67
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	19	0.67
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	19	0.67
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	8	0.67
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	8	0.67
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	15	0.67
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	15	0.67
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	16	0.67
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	16	0.67
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	15	0.67
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	5	0.67
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	5	0.67
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	11	0.67
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	11	0.67
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	11	0.67
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	11	0.67
(2,775)	1:61:A:ILE:HD12	1:48:A:LEU:HD21	19	0.67
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD22	18	0.67
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD23	18	0.67
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	17	0.67
(2,507)	1:199:A:SER:H	1:202:A:MET:H	19	0.67
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	8	0.67
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	8	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	8	0.67
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	3	0.67
(2,988)	1:129:A:TRP:HE1	4:313:A:PX4:C2	13	0.66
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	7	0.66
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	7	0.66
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	12	0.66
(2,981)	1:78:A:PHE:H	1:79:A:PRO:HG3	12	0.66
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	10	0.66
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	10	0.66
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	10	0.66
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	1	0.66
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	1	0.66
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	1	0.66
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	1	0.66
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	1	0.66
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	1	0.66
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	12	0.66
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	4	0.66
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	5	0.66
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	5	0.66
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	5	0.66
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	5	0.66
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	4	0.66
(3,25)	1:108:A:LEU:H	4:333:A:PX4:C35	18	0.65
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	3	0.65
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	3	0.65
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	17	0.65
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	17	0.65
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	18	0.65
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG21	1	0.65
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG22	1	0.65
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG23	1	0.65
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	18	0.65
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	18	0.65
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	17	0.65
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	17	0.65
(2,872)	1:186:A:ILE:HD13	1:156:A:LEU:HD22	19	0.65
(2,872)	1:186:A:ILE:HD13	1:156:A:LEU:HD23	19	0.65
(2,846)	1:200:A:LEU:HD23	1:122:A:LEU:HD21	19	0.65
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	1	0.65
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	1	0.65
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	4	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	4	0.65
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	4	0.65
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	4	0.65
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	4	0.65
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	4	0.65
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	4	0.65
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	4	0.65
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	4	0.65
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	10	0.65
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	10	0.65
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	10	0.65
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	20	0.65
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	5	0.65
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	12	0.65
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	3	0.65
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	3	0.65
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	3	0.65
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	7	0.65
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	18	0.65
(2,110)	1:11:A:GLN:H	1:14:A:GLN:H	16	0.65
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	3	0.65
(3,16)	1:153:A:GLY:H	4:331:A:PX4:C27	13	0.64
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	8	0.64
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	8	0.64
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	6	0.64
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	12	0.64
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	12	0.64
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	6	0.64
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	10	0.64
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	19	0.64
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	19	0.64
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	19	0.64
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	19	0.64
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	19	0.64
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	19	0.64
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	11	0.64
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	11	0.64
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	19	0.64
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	19	0.64
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	20	0.64
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	20	0.64
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	1	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	1	0.64
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	13	0.64
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	13	0.64
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	16	0.64
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	16	0.64
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD11	19	0.64
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD12	19	0.64
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD13	19	0.64
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	14	0.64
(2,570)	1:226:A:LEU:H	1:226:A:LEU:HD21	19	0.64
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	11	0.64
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	10	0.64
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD11	19	0.64
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD12	19	0.64
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD13	19	0.64
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	6	0.64
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	19	0.63
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	19	0.63
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	19	0.63
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	19	0.63
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	19	0.63
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	19	0.63
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	19	0.63
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	19	0.63
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	19	0.63
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	19	0.63
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	19	0.63
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	19	0.63
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	6	0.63
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	6	0.63
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	12	0.63
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	12	0.63
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	17	0.63
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	17	0.63
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	17	0.63
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	17	0.63
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	17	0.63
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	17	0.63
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	12	0.63
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	12	0.63
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	8	0.63
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	8	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	9	0.63
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	9	0.63
(2,857)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	16	0.63
(2,842)	1:200:A:LEU:HD21	1:122:A:LEU:HD21	17	0.63
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD11	17	0.63
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD12	17	0.63
(2,760)	1:54:A:LEU:HD22	1:59:A:ILE:HD13	17	0.63
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD11	17	0.63
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD12	17	0.63
(2,760)	1:54:A:LEU:HD23	1:59:A:ILE:HD13	17	0.63
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	16	0.63
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	17	0.63
(2,278)	1:116:A:TRP:HE1	1:211:A:VAL:HG11	2	0.63
(2,278)	1:116:A:TRP:HE1	1:211:A:VAL:HG12	2	0.63
(2,278)	1:116:A:TRP:HE1	1:211:A:VAL:HG13	2	0.63
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	8	0.63
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	6	0.62
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	6	0.62
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	15	0.62
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	15	0.62
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	16	0.62
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	16	0.62
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	16	0.62
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	16	0.62
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	16	0.62
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	16	0.62
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	16	0.62
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	16	0.62
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	16	0.62
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	16	0.62
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	16	0.62
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	16	0.62
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	4	0.62
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	4	0.62
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	10	0.62
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	10	0.62
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	10	0.62
(2,507)	1:199:A:SER:H	1:202:A:MET:H	2	0.62
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	16	0.62
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	16	0.62
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	10	0.62
(2,317)	1:125:A:ARG:H	1:91:A:TYR:H	2	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	4	0.62
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	6	0.62
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	8	0.62
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	5	0.61
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	5	0.61
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	10	0.61
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	10	0.61
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD11	16	0.61
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD12	16	0.61
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD13	16	0.61
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD11	19	0.61
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD12	19	0.61
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD13	19	0.61
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	1	0.61
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	13	0.61
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	14	0.61
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	20	0.61
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	20	0.61
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	20	0.61
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	9	0.61
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	9	0.61
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	9	0.61
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	9	0.61
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	9	0.61
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	9	0.61
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	9	0.61
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	9	0.61
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	9	0.61
(2,789)	1:58:A:VAL:HG11	1:39:A:LEU:HD22	20	0.61
(2,789)	1:58:A:VAL:HG11	1:39:A:LEU:HD23	20	0.61
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	18	0.61
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	18	0.61
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	18	0.61
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	6	0.61
(2,369)	1:143:A:HIS:H	1:145:A:ASP:H	14	0.61
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG13	10	0.61
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG12	10	0.61
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	19	0.61
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	5	0.6
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	4	0.6
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	4	0.6
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	8	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	8	0.6
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	8	0.6
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	14	0.6
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	14	0.6
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	14	0.6
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	14	0.6
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	14	0.6
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	14	0.6
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	14	0.6
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	14	0.6
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	3	0.6
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	3	0.6
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	20	0.6
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	20	0.6
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	20	0.6
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	20	0.6
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	20	0.6
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	20	0.6
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	20	0.6
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	20	0.6
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	20	0.6
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	9	0.6
(2,507)	1:199:A:SER:H	1:202:A:MET:H	3	0.6
(2,504)	1:198:A:HIS:H	1:202:A:MET:H	7	0.6
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	3	0.6
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	3	0.6
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	1	0.6
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	1	0.6
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	1	0.6
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	5	0.6
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	14	0.6
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	11	0.6
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	11	0.6
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	11	0.6
(3,25)	1:108:A:LEU:H	4:339:A:PX4:C35	19	0.59
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	4	0.59
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	3	0.59
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	3	0.59
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	1	0.59
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	11	0.59
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	11	0.59
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	11	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	11	0.59
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	11	0.59
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	11	0.59
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	11	0.59
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	11	0.59
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	11	0.59
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	11	0.59
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	11	0.59
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	11	0.59
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	1	0.59
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	1	0.59
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	1	0.59
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	11	0.59
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	4	0.59
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	4	0.59
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	7	0.59
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	7	0.59
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	10	0.59
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	6	0.59
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	6	0.59
(2,879)	1:234:A:ILE:HD11	1:200:A:LEU:HB2	8	0.59
(2,879)	1:234:A:ILE:HD12	1:200:A:LEU:HB2	8	0.59
(2,879)	1:234:A:ILE:HD13	1:200:A:LEU:HB2	8	0.59
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	9	0.59
(2,775)	1:61:A:ILE:HD12	1:48:A:LEU:HD21	6	0.59
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	5	0.59
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	5	0.59
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	5	0.59
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	14	0.59
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	14	0.59
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	14	0.59
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	13	0.59
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	13	0.59
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	13	0.59
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	6	0.59
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	6	0.59
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	6	0.59
(2,316)	1:125:A:ARG:H	1:89:A:VAL:H	14	0.59
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	9	0.59
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	20	0.59
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	8	0.59
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	4	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	4	0.59
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	4	0.59
(2,162)	1:125:A:ARG:H	1:89:A:VAL:H	14	0.59
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	12	0.59
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	2	0.59
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	3	0.59
(3,28)	1:129:A:TRP:H	4:306:A:PX4:C35	2	0.58
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	2	0.58
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	2	0.58
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	1	0.58
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	1	0.58
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	2	0.58
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	2	0.58
(2,748)	1:89:A:VAL:HG12	1:122:A:LEU:HD21	10	0.58
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	11	0.58
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	1	0.58
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	8	0.58
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	8	0.58
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	11	0.58
(2,13)	1:135:A:MET:H	1:170:A:ALA:H	20	0.58
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	4	0.58
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	11	0.58
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	14	0.57
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	14	0.57
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	20	0.57
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	20	0.57
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	2	0.57
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	12	0.57
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	12	0.57
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	12	0.57
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	12	0.57
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB3	12	0.57
(2,891)	1:63:A:GLN:H	1:63:A:GLN:HB2	12	0.57
(2,836)	1:120:A:ILE:HD13	1:200:A:LEU:HD21	9	0.57
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	5	0.57
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	5	0.57
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	5	0.57
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	5	0.57
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	5	0.57
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	5	0.57
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	5	0.57
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	5	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	5	0.57
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	16	0.57
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	6	0.57
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	13	0.57
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	11	0.57
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	10	0.57
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	8	0.57
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	19	0.57
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	17	0.56
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	14	0.56
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	5	0.56
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	5	0.56
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	5	0.56
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	5	0.56
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	5	0.56
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	5	0.56
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	5	0.56
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	5	0.56
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	5	0.56
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	5	0.56
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	5	0.56
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	5	0.56
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	12	0.56
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	12	0.56
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	12	0.56
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	8	0.56
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	5	0.56
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	5	0.56
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	5	0.56
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	5	0.56
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	5	0.56
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	5	0.56
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	15	0.56
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	15	0.56
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	15	0.56
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	15	0.56
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	15	0.56
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	15	0.56
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	11	0.56
(2,871)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	17	0.56
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	14	0.56
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	6	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	12	0.56
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	12	0.56
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	12	0.56
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	18	0.56
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	18	0.56
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	18	0.56
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	14	0.56
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	7	0.56
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	7	0.56
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	7	0.56
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	7	0.56
(2,71)	1:55:A:ASN:H	1:54:A:LEU:HD21	5	0.56
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	7	0.56
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	8	0.56
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	1	0.55
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	1	0.55
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	16	0.55
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	7	0.55
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	7	0.55
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	10	0.55
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	14	0.55
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	16	0.55
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	16	0.55
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	16	0.55
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	16	0.55
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	16	0.55
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	16	0.55
(2,871)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	4	0.55
(2,838)	1:120:A:ILE:HD11	1:234:A:ILE:HD11	16	0.55
(2,838)	1:120:A:ILE:HD11	1:234:A:ILE:HD12	16	0.55
(2,838)	1:120:A:ILE:HD11	1:234:A:ILE:HD13	16	0.55
(2,838)	1:120:A:ILE:HD12	1:234:A:ILE:HD11	16	0.55
(2,838)	1:120:A:ILE:HD12	1:234:A:ILE:HD12	16	0.55
(2,838)	1:120:A:ILE:HD12	1:234:A:ILE:HD13	16	0.55
(2,838)	1:120:A:ILE:HD13	1:234:A:ILE:HD11	16	0.55
(2,838)	1:120:A:ILE:HD13	1:234:A:ILE:HD12	16	0.55
(2,838)	1:120:A:ILE:HD13	1:234:A:ILE:HD13	16	0.55
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	6	0.55
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	6	0.55
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	6	0.55
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	6	0.55
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	6	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	6	0.55
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	6	0.55
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	6	0.55
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	6	0.55
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	15	0.55
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	15	0.55
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	15	0.55
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	15	0.55
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	15	0.55
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	15	0.55
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	15	0.55
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	15	0.55
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	15	0.55
(2,750)	1:89:A:VAL:HG13	1:122:A:LEU:HD21	9	0.55
(2,693)	1:11:A:GLN:H	1:8:A:SER:H	20	0.55
(2,671)	1:66:A:ARG:H	1:156:A:LEU:HD21	20	0.55
(2,624)	1:11:A:GLN:H	1:8:A:SER:H	20	0.55
(2,543)	1:210:A:ALA:H	1:213:A:TYR:H	14	0.55
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	4	0.55
(2,507)	1:199:A:SER:H	1:202:A:MET:H	14	0.55
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	13	0.55
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	13	0.55
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	13	0.55
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	15	0.55
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	12	0.55
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	19	0.55
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	15	0.54
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	15	0.54
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	7	0.54
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	4	0.54
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	4	0.54
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	4	0.54
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	11	0.54
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	16	0.54
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	16	0.54
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	4	0.54
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	4	0.54
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	4	0.54
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	4	0.54
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	4	0.54
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	4	0.54
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	8	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	7	0.54
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	1	0.54
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	13	0.54
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	18	0.54
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	15	0.54
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	15	0.54
(2,456)	1:178:A:TRP:HE1	1:176:A:GLU:H	13	0.54
(2,445)	1:178:A:TRP:HE1	1:176:A:GLU:H	13	0.54
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	18	0.54
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	20	0.54
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG11	6	0.54
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG12	6	0.54
(2,178)	1:171:A:HIS:H	1:69:A:VAL:HG13	6	0.54
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	17	0.54
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	2	0.54
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	5	0.54
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	20	0.53
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	20	0.53
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	11	0.53
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	16	0.53
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	17	0.53
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	19	0.53
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	19	0.53
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	6	0.53
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	11	0.53
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	11	0.53
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	17	0.53
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	17	0.53
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	4	0.53
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	4	0.53
(2,859)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	12	0.53
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	12	0.53
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	18	0.53
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	16	0.53
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	16	0.53
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	18	0.53
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	19	0.53
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	7	0.53
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	11	0.53
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	6	0.53
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	6	0.53
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	6	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	8	0.53
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	20	0.53
(2,63)	1:52:A:GLY:H	1:51:A:THR:H	20	0.53
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG13	5	0.53
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG12	5	0.53
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	14	0.53
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	6	0.53
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	10	0.53
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	4	0.53
(3,28)	1:129:A:TRP:H	4:361:A:PX4:C35	8	0.52
(2,988)	1:129:A:TRP:HE1	4:313:A:PX4:C2	11	0.52
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	1	0.52
(2,983)	1:79:A:PRO:HD3	1:80:A:ASN:H	1	0.52
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	6	0.52
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	11	0.52
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	13	0.52
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	13	0.52
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	11	0.52
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	13	0.52
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	8	0.52
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	8	0.52
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	8	0.52
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	8	0.52
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	8	0.52
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	8	0.52
(2,861)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	16	0.52
(2,860)	1:186:A:ILE:HD12	1:156:A:LEU:HD22	1	0.52
(2,860)	1:186:A:ILE:HD12	1:156:A:LEU:HD23	1	0.52
(2,777)	1:61:A:ILE:HD13	1:48:A:LEU:HD21	11	0.52
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD22	5	0.52
(2,728)	1:211:A:VAL:HG11	1:226:A:LEU:HD23	5	0.52
(2,718)	1:54:A:LEU:HD11	1:59:A:ILE:HD11	18	0.52
(2,718)	1:54:A:LEU:HD11	1:59:A:ILE:HD12	18	0.52
(2,718)	1:54:A:LEU:HD11	1:59:A:ILE:HD13	18	0.52
(2,718)	1:54:A:LEU:HD12	1:59:A:ILE:HD11	18	0.52
(2,718)	1:54:A:LEU:HD12	1:59:A:ILE:HD12	18	0.52
(2,718)	1:54:A:LEU:HD12	1:59:A:ILE:HD13	18	0.52
(2,718)	1:54:A:LEU:HD13	1:59:A:ILE:HD11	18	0.52
(2,718)	1:54:A:LEU:HD13	1:59:A:ILE:HD12	18	0.52
(2,718)	1:54:A:LEU:HD13	1:59:A:ILE:HD13	18	0.52
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	6	0.52
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	2	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	2	0.52
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	8	0.52
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	8	0.52
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	2	0.52
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	2	0.52
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	11	0.52
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	11	0.52
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	8	0.52
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	8	0.52
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	8	0.52
(2,265)	1:113:A:LEU:H	1:196:A:LEU:HD22	5	0.52
(2,265)	1:113:A:LEU:H	1:196:A:LEU:HD23	5	0.52
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	2	0.52
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	2	0.52
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	2	0.52
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG13	18	0.52
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG12	18	0.52
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	15	0.52
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	18	0.52
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	6	0.52
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	18	0.52
(3,26)	1:128:A:VAL:H	4:333:A:PX4:C35	12	0.51
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	19	0.51
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	19	0.51
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	14	0.51
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	14	0.51
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	18	0.51
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	18	0.51
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	4	0.51
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	11	0.51
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	11	0.51
(2,871)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	2	0.51
(2,741)	1:114:A:ASN:H	1:113:A:LEU:HD21	2	0.51
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG21	4	0.51
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG22	4	0.51
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG23	4	0.51
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	1	0.51
(2,543)	1:210:A:ALA:H	1:213:A:TYR:H	1	0.51
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	10	0.51
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	10	0.51
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	10	0.51
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	11	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	20	0.51
(2,369)	1:143:A:HIS:H	1:145:A:ASP:H	19	0.51
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG13	14	0.51
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG12	14	0.51
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	13	0.51
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	14	0.51
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	15	0.51
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	20	0.5
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	5	0.5
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	5	0.5
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	20	0.5
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG21	13	0.5
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG22	13	0.5
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG23	13	0.5
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	6	0.5
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	6	0.5
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	11	0.5
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	11	0.5
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	18	0.5
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	18	0.5
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	1	0.5
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	1	0.5
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	1	0.5
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	1	0.5
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	1	0.5
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	1	0.5
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	1	0.5
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	1	0.5
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	1	0.5
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	11	0.5
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	13	0.5
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	17	0.5
(2,542)	1:210:A:ALA:H	1:209:A:ASN:HD22	20	0.5
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD22	14	0.5
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD23	14	0.5
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	10	0.5
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	10	0.5
(2,507)	1:199:A:SER:H	1:202:A:MET:H	8	0.5
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	17	0.5
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	3	0.5
(2,239)	1:108:A:LEU:H	1:108:A:LEU:HD21	17	0.5
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	5	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	9	0.5
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	8	0.49
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	8	0.49
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	14	0.49
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	14	0.49
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	19	0.49
(2,907)	1:68:A:GLY:H	1:69:A:VAL:H	12	0.49
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	6	0.49
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	6	0.49
(2,868)	1:186:A:ILE:HD11	1:156:A:LEU:HD22	12	0.49
(2,868)	1:186:A:ILE:HD11	1:156:A:LEU:HD23	12	0.49
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	20	0.49
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	20	0.49
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	4	0.49
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	4	0.49
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	4	0.49
(2,735)	1:196:A:LEU:HD22	1:113:A:LEU:HD21	14	0.49
(2,656)	1:39:A:LEU:H	1:19:A:LEU:HD21	14	0.49
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	11	0.49
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	11	0.49
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	11	0.49
(2,570)	1:226:A:LEU:H	1:226:A:LEU:HD21	17	0.49
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	19	0.49
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	19	0.49
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	19	0.49
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	6	0.49
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	19	0.49
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	18	0.49
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	18	0.49
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	18	0.49
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	5	0.49
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	8	0.49
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	6	0.49
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	9	0.49
(3,22)	1:100:A:LEU:CD2	4:333:A:PX4:C35	12	0.48
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	9	0.48
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	9	0.48
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	6	0.48
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	15	0.48
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	6	0.48
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	6	0.48
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	6	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	6	0.48
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	6	0.48
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	6	0.48
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	14	0.48
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	19	0.48
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	7	0.48
(2,748)	1:89:A:VAL:HG12	1:122:A:LEU:HD21	17	0.48
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	3	0.48
(2,543)	1:210:A:ALA:H	1:213:A:TYR:H	19	0.48
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	11	0.48
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	11	0.48
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	13	0.48
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	10	0.48
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	3	0.48
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	10	0.48
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	10	0.48
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	8	0.48
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	11	0.48
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	13	0.48
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	19	0.48
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	2	0.48
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	20	0.47
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	20	0.47
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD21	20	0.47
(2,984)	1:78:A:PHE:HD1	1:80:A:ASN:HD22	20	0.47
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	11	0.47
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	11	0.47
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	7	0.47
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	7	0.47
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	5	0.47
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	17	0.47
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	17	0.47
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	2	0.47
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	2	0.47
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	2	0.47
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	17	0.47
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	17	0.47
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	17	0.47
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	13	0.47
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	16	0.47
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG21	5	0.47
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG22	5	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG23	5	0.47
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	5	0.47
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	5	0.47
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	5	0.47
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	19	0.47
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	19	0.47
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	19	0.47
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	7	0.47
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	5	0.47
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	5	0.47
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	15	0.47
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	15	0.47
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	20	0.47
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	20	0.47
(2,507)	1:199:A:SER:H	1:202:A:MET:H	18	0.47
(2,453)	1:178:A:TRP:HE1	1:175:A:ASP:H	15	0.47
(2,442)	1:175:A:ASP:H	1:178:A:TRP:HE1	15	0.47
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	12	0.47
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	5	0.47
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	5	0.47
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	6	0.47
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	6	0.47
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	12	0.47
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	12	0.47
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	18	0.47
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	18	0.47
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	20	0.47
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	20	0.47
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	1	0.47
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	8	0.47
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	19	0.47
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	6	0.47
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	10	0.47
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	12	0.47
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	1	0.47
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	6	0.47
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	13	0.47
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	10	0.47
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	19	0.47
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	13	0.46
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	13	0.46
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	19	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	19	0.46
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD11	1	0.46
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD12	1	0.46
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD13	1	0.46
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	4	0.46
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	13	0.46
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	13	0.46
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	4	0.46
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	4	0.46
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	4	0.46
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	4	0.46
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	17	0.46
(2,908)	1:68:A:GLY:HA3	1:69:A:VAL:H	3	0.46
(2,908)	1:68:A:GLY:HA3	1:69:A:VAL:H	3	0.46
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	2	0.46
(2,693)	1:11:A:GLN:H	1:8:A:SER:H	9	0.46
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	4	0.46
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	8	0.46
(2,624)	1:11:A:GLN:H	1:8:A:SER:H	9	0.46
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	14	0.46
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	7	0.46
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	7	0.46
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	2	0.46
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	8	0.46
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	8	0.46
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	8	0.46
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	1	0.46
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	2	0.46
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	2	0.46
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	2	0.46
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	2	0.46
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	4	0.46
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	4	0.46
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	16	0.46
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	16	0.46
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	10	0.46
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG13	13	0.46
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG12	13	0.46
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	2	0.46
(1,13)	3:304:A:ZN:ZN	1:194:A:HIS:NE2	4	0.46
(1,13)	3:304:A:ZN:ZN	1:194:A:HIS:NE2	18	0.46
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	11	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	3	0.46
(3,25)	1:108:A:LEU:H	4:333:A:PX4:C35	9	0.45
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	5	0.45
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	5	0.45
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	4	0.45
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	4	0.45
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	20	0.45
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	20	0.45
(2,899)	1:66:A:ARG:H	1:64:A:LYS:H	10	0.45
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	3	0.45
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	3	0.45
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	4	0.45
(2,843)	1:200:A:LEU:HD21	1:122:A:LEU:HD22	9	0.45
(2,843)	1:200:A:LEU:HD21	1:122:A:LEU:HD23	9	0.45
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	10	0.45
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	10	0.45
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	10	0.45
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	10	0.45
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	10	0.45
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	10	0.45
(2,741)	1:114:A:ASN:H	1:113:A:LEU:HD21	4	0.45
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD11	10	0.45
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD12	10	0.45
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD13	10	0.45
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD11	10	0.45
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD12	10	0.45
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD13	10	0.45
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD11	10	0.45
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD12	10	0.45
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD13	10	0.45
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	8	0.45
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	8	0.45
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	8	0.45
(2,634)	1:54:A:LEU:HD11	1:12:A:TRP:HE1	6	0.45
(2,634)	1:54:A:LEU:HD12	1:12:A:TRP:HE1	6	0.45
(2,634)	1:54:A:LEU:HD13	1:12:A:TRP:HE1	6	0.45
(2,634)	1:54:A:LEU:HD11	1:12:A:TRP:HE1	15	0.45
(2,634)	1:54:A:LEU:HD12	1:12:A:TRP:HE1	15	0.45
(2,634)	1:54:A:LEU:HD13	1:12:A:TRP:HE1	15	0.45
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	8	0.45
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	8	0.45
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	8	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	13	0.45
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	13	0.45
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD22	10	0.45
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD23	10	0.45
(2,388)	1:66:A:ARG:H	1:156:A:LEU:H	10	0.45
(2,388)	1:66:A:ARG:H	1:156:A:LEU:H	16	0.45
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	2	0.45
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	2	0.45
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	7	0.45
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	7	0.45
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	8	0.45
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	8	0.45
(2,316)	1:125:A:ARG:H	1:89:A:VAL:H	5	0.45
(2,316)	1:125:A:ARG:H	1:89:A:VAL:H	12	0.45
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	18	0.45
(2,265)	1:113:A:LEU:H	1:196:A:LEU:HD22	6	0.45
(2,265)	1:113:A:LEU:H	1:196:A:LEU:HD23	6	0.45
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	1	0.45
(2,162)	1:125:A:ARG:H	1:89:A:VAL:H	5	0.45
(2,162)	1:125:A:ARG:H	1:89:A:VAL:H	12	0.45
(2,120)	1:66:A:ARG:H	1:156:A:LEU:H	10	0.45
(2,120)	1:66:A:ARG:H	1:156:A:LEU:H	16	0.45
(2,63)	1:52:A:GLY:H	1:51:A:THR:H	5	0.45
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD11	12	0.45
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD12	12	0.45
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD13	12	0.45
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	15	0.45
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	10	0.45
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	10	0.44
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	10	0.44
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	1	0.44
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	1	0.44
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	3	0.44
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	3	0.44
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	2	0.44
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	14	0.44
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	14	0.44
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	14	0.44
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	15	0.44
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	15	0.44
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD22	15	0.44
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD23	15	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	20	0.44
(2,746)	1:89:A:VAL:HG11	1:122:A:LEU:HD21	9	0.44
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	16	0.44
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	16	0.44
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	16	0.44
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	15	0.44
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	19	0.44
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	1	0.44
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	1	0.44
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	1	0.44
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	14	0.44
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	14	0.44
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	18	0.44
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	18	0.44
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	9	0.44
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	1	0.44
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	1	0.44
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	5	0.44
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	9	0.44
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	18	0.44
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	1	0.44
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	1	0.44
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	9	0.44
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	9	0.44
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	14	0.44
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	14	0.44
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	15	0.44
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	15	0.44
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	19	0.44
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	19	0.44
(2,258)	1:112:A:ALA:H	1:189:A:LEU:HD22	15	0.44
(2,258)	1:112:A:ALA:H	1:189:A:LEU:HD23	15	0.44
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	6	0.44
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	9	0.44
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	10	0.44
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	7	0.44
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB3	15	0.43
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB2	15	0.43
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB3	15	0.43
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB2	15	0.43
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	4	0.43
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	4	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	10	0.43
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	10	0.43
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	8	0.43
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	8	0.43
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	3	0.43
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	3	0.43
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	3	0.43
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	3	0.43
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	3	0.43
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	3	0.43
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	3	0.43
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	3	0.43
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	3	0.43
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	3	0.43
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	3	0.43
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	3	0.43
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	15	0.43
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	15	0.43
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	7	0.43
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	7	0.43
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	7	0.43
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	7	0.43
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	7	0.43
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	7	0.43
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	7	0.43
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	7	0.43
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	6	0.43
(2,871)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	18	0.43
(2,776)	1:61:A:ILE:HD12	1:48:A:LEU:HD22	1	0.43
(2,776)	1:61:A:ILE:HD12	1:48:A:LEU:HD23	1	0.43
(2,773)	1:61:A:ILE:HD11	1:48:A:LEU:HD21	15	0.43
(2,748)	1:89:A:VAL:HG12	1:122:A:LEU:HD21	20	0.43
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	18	0.43
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	14	0.43
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	17	0.43
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	17	0.43
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	13	0.43
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	13	0.43
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	5	0.43
(2,503)	1:198:A:HIS:H	1:201:A:GLY:H	8	0.43
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	20	0.43
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	20	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	20	0.43
(2,410)	1:167:A:GLY:H	1:165:A:GLY:H	2	0.43
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	3	0.43
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	3	0.43
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	17	0.43
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	17	0.43
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	17	0.43
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	17	0.43
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	17	0.43
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	4	0.43
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	2	0.43
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	3	0.43
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	3	0.43
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	3	0.43
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	4	0.43
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	12	0.43
(1,13)	3:304:A:ZN:ZN	1:198:A:HIS:NE2	14	0.43
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	16	0.43
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	16	0.42
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	19	0.42
(2,966)	1:77:A:LEU:H	1:77:A:LEU:HB3	9	0.42
(2,966)	1:77:A:LEU:H	1:77:A:LEU:HB3	9	0.42
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	10	0.42
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	10	0.42
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	10	0.42
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	10	0.42
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	10	0.42
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	10	0.42
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	10	0.42
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	10	0.42
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	10	0.42
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	10	0.42
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	10	0.42
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	10	0.42
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	9	0.42
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	9	0.42
(2,907)	1:68:A:GLY:H	1:69:A:VAL:H	1	0.42
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	6	0.42
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	6	0.42
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	6	0.42
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	7	0.42
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	7	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	7	0.42
(2,773)	1:61:A:ILE:HD11	1:48:A:LEU:HD21	12	0.42
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	6	0.42
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	6	0.42
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	6	0.42
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	6	0.42
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	6	0.42
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	6	0.42
(2,725)	1:113:A:LEU:HD13	1:196:A:LEU:HD21	10	0.42
(2,716)	1:54:A:LEU:HD11	1:58:A:VAL:HG11	4	0.42
(2,716)	1:54:A:LEU:HD11	1:58:A:VAL:HG12	4	0.42
(2,716)	1:54:A:LEU:HD11	1:58:A:VAL:HG13	4	0.42
(2,716)	1:54:A:LEU:HD12	1:58:A:VAL:HG11	4	0.42
(2,716)	1:54:A:LEU:HD12	1:58:A:VAL:HG12	4	0.42
(2,716)	1:54:A:LEU:HD12	1:58:A:VAL:HG13	4	0.42
(2,716)	1:54:A:LEU:HD13	1:58:A:VAL:HG11	4	0.42
(2,716)	1:54:A:LEU:HD13	1:58:A:VAL:HG12	4	0.42
(2,716)	1:54:A:LEU:HD13	1:58:A:VAL:HG13	4	0.42
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG21	13	0.42
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG22	13	0.42
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG23	13	0.42
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	20	0.42
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	20	0.42
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	20	0.42
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	7	0.42
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	17	0.42
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	17	0.42
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	17	0.42
(2,570)	1:226:A:LEU:H	1:226:A:LEU:HD21	7	0.42
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	19	0.42
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	19	0.42
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	6	0.42
(2,507)	1:199:A:SER:H	1:202:A:MET:H	4	0.42
(2,507)	1:199:A:SER:H	1:202:A:MET:H	5	0.42
(2,504)	1:198:A:HIS:H	1:202:A:MET:H	1	0.42
(2,501)	1:198:A:HIS:H	1:195:A:ALA:H	7	0.42
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	9	0.42
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	2	0.42
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	2	0.42
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	2	0.42
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	18	0.42
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	17	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,13)	3:304:A:ZN:ZN	1:204:A:HIS:NE2	15	0.42
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	16	0.42
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	20	0.42
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	3	0.42
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	16	0.42
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	20	0.42
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	20	0.42
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	20	0.42
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	17	0.41
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	17	0.41
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	10	0.41
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	11	0.41
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	11	0.41
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	9	0.41
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	9	0.41
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	14	0.41
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	14	0.41
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	4	0.41
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	4	0.41
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	4	0.41
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	4	0.41
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	4	0.41
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	4	0.41
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	4	0.41
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	4	0.41
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	4	0.41
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	4	0.41
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	4	0.41
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	4	0.41
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	5	0.41
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	5	0.41
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	1	0.41
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	4	0.41
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	19	0.41
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	2	0.41
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	2	0.41
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	13	0.41
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	13	0.41
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	2	0.41
(2,859)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	1	0.41
(2,832)	1:120:A:ILE:HD11	1:200:A:LEU:HD21	18	0.41
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	19	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	19	0.41
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	19	0.41
(2,733)	1:196:A:LEU:HD21	1:113:A:LEU:HD21	20	0.41
(2,693)	1:11:A:GLN:H	1:8:A:SER:H	1	0.41
(2,624)	1:11:A:GLN:H	1:8:A:SER:H	1	0.41
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	2	0.41
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	1	0.41
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	1	0.41
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	3	0.41
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	3	0.41
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	12	0.41
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	12	0.41
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	17	0.41
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	18	0.41
(2,453)	1:178:A:TRP:HE1	1:175:A:ASP:H	2	0.41
(2,453)	1:178:A:TRP:HE1	1:175:A:ASP:H	17	0.41
(2,442)	1:175:A:ASP:H	1:178:A:TRP:HE1	2	0.41
(2,442)	1:175:A:ASP:H	1:178:A:TRP:HE1	17	0.41
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG13	2	0.41
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG12	2	0.41
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	13	0.41
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	16	0.41
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	2	0.41
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	11	0.41
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	12	0.41
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	18	0.41
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	7	0.41
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	1	0.41
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	17	0.41
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	20	0.41
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	15	0.4
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	15	0.4
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD11	4	0.4
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD12	4	0.4
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD13	4	0.4
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	20	0.4
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	2	0.4
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	2	0.4
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	7	0.4
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	7	0.4
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	7	0.4
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	7	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	7	0.4
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	7	0.4
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD21	7	0.4
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD21	7	0.4
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD21	7	0.4
(2,942)	1:73:A:ALA:HB1	1:80:A:ASN:HD22	7	0.4
(2,942)	1:73:A:ALA:HB2	1:80:A:ASN:HD22	7	0.4
(2,942)	1:73:A:ALA:HB3	1:80:A:ASN:HD22	7	0.4
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	9	0.4
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	9	0.4
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	9	0.4
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB3	1	0.4
(2,913)	1:71:A:ASP:H	1:70:A:PRO:HB2	1	0.4
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	9	0.4
(2,857)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	14	0.4
(2,730)	1:211:A:VAL:HG12	1:226:A:LEU:HD22	12	0.4
(2,730)	1:211:A:VAL:HG12	1:226:A:LEU:HD23	12	0.4
(2,693)	1:11:A:GLN:H	1:8:A:SER:H	6	0.4
(2,624)	1:11:A:GLN:H	1:8:A:SER:H	6	0.4
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	15	0.4
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	18	0.4
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	18	0.4
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	18	0.4
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	4	0.4
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	4	0.4
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD22	7	0.4
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD23	7	0.4
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD22	17	0.4
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD23	17	0.4
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	4	0.4
(2,380)	1:10:A:LEU:H	1:10:A:LEU:HD22	20	0.4
(2,380)	1:10:A:LEU:H	1:10:A:LEU:HD23	20	0.4
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	3	0.4
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	7	0.4
(2,8)	1:135:A:MET:H	1:92:A:ARG:H	12	0.4
(1,13)	3:304:A:ZN:ZN	1:198:A:HIS:NE2	10	0.4
(1,13)	3:304:A:ZN:ZN	1:198:A:HIS:NE2	12	0.4
(1,13)	3:304:A:ZN:ZN	1:194:A:HIS:NE2	19	0.4
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	7	0.4
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	13	0.4
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	18	0.4
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	4	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	12	0.39
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	15	0.39
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	1	0.39
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	1	0.39
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD11	4	0.39
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD12	4	0.39
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD13	4	0.39
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD11	4	0.39
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD12	4	0.39
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD13	4	0.39
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD11	4	0.39
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD12	4	0.39
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD13	4	0.39
(2,741)	1:114:A:ASN:H	1:113:A:LEU:HD21	19	0.39
(2,543)	1:210:A:ALA:H	1:213:A:TYR:H	12	0.39
(2,489)	1:116:A:TRP:HE1	1:196:A:LEU:H	8	0.39
(2,450)	1:177:A:ARG:H	1:186:A:ILE:HG13	12	0.39
(2,450)	1:177:A:ARG:H	1:186:A:ILE:HG12	12	0.39
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	10	0.39
(2,317)	1:125:A:ARG:H	1:91:A:TYR:H	9	0.39
(2,275)	1:116:A:TRP:HE1	1:196:A:LEU:H	8	0.39
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	16	0.39
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD11	20	0.39
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD12	20	0.39
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD13	20	0.39
(1,10)	3:303:A:ZN:ZN	1:171:A:HIS:ND1	15	0.39
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	5	0.39
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	2	0.39
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	15	0.39
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	8	0.39
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD2	16	0.39
(1,2)	2:301:A:CA:CA	1:133:A:ASP:O	19	0.39
(1,1)	2:301:A:CA:CA	1:167:A:GLY:O	16	0.39
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	18	0.38
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	15	0.38
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	15	0.38
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	7	0.38
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	7	0.38
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	1	0.38
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	20	0.38
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	8	0.38
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	7	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	7	0.38
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD11	7	0.38
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD12	7	0.38
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD13	7	0.38
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	15	0.38
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	4	0.38
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	4	0.38
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	4	0.38
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	4	0.38
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	4	0.38
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	4	0.38
(2,750)	1:89:A:VAL:HG13	1:122:A:LEU:HD21	19	0.38
(2,746)	1:89:A:VAL:HG11	1:122:A:LEU:HD21	18	0.38
(2,741)	1:114:A:ASN:H	1:113:A:LEU:HD21	8	0.38
(2,693)	1:11:A:GLN:H	1:8:A:SER:H	5	0.38
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	4	0.38
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	4	0.38
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	4	0.38
(2,624)	1:11:A:GLN:H	1:8:A:SER:H	5	0.38
(2,570)	1:226:A:LEU:H	1:226:A:LEU:HD21	4	0.38
(2,570)	1:226:A:LEU:H	1:226:A:LEU:HD21	14	0.38
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	9	0.38
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	9	0.38
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	10	0.38
(2,380)	1:10:A:LEU:H	1:10:A:LEU:HD22	19	0.38
(2,380)	1:10:A:LEU:H	1:10:A:LEU:HD23	19	0.38
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	3	0.38
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	15	0.38
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	15	0.38
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	15	0.38
(2,321)	1:128:A:VAL:HG11	1:126:A:LYS:H	13	0.38
(2,321)	1:128:A:VAL:HG12	1:126:A:LYS:H	13	0.38
(2,321)	1:128:A:VAL:HG13	1:126:A:LYS:H	13	0.38
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	5	0.38
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD11	7	0.38
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD12	7	0.38
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD13	7	0.38
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG13	1	0.38
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG12	1	0.38
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	13	0.38
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	5	0.38
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD1	17	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	6	0.37
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	6	0.37
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	14	0.37
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	8	0.37
(2,954)	1:74:A:GLU:HB3	1:77:A:LEU:H	8	0.37
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	14	0.37
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	13	0.37
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	13	0.37
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	18	0.37
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	18	0.37
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	8	0.37
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	10	0.37
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	10	0.37
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	10	0.37
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	10	0.37
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	10	0.37
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	10	0.37
(2,905)	1:67:A:CYS:HA	1:68:A:GLY:H	1	0.37
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	20	0.37
(2,750)	1:89:A:VAL:HG13	1:122:A:LEU:HD21	20	0.37
(2,680)	1:158:A:HIS:H	1:172:A:PHE:H	3	0.37
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	14	0.37
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG21	2	0.37
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG22	2	0.37
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG23	2	0.37
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	10	0.37
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	9	0.37
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	18	0.37
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	19	0.37
(2,510)	1:200:A:LEU:HD21	1:199:A:SER:H	8	0.37
(2,507)	1:199:A:SER:H	1:202:A:MET:H	11	0.37
(2,507)	1:199:A:SER:H	1:202:A:MET:H	12	0.37
(2,501)	1:198:A:HIS:H	1:195:A:ALA:H	17	0.37
(2,500)	1:116:A:TRP:HE1	1:198:A:HIS:H	17	0.37
(2,456)	1:178:A:TRP:HE1	1:176:A:GLU:H	16	0.37
(2,445)	1:178:A:TRP:HE1	1:176:A:GLU:H	16	0.37
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	1	0.37
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	1	0.37
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	1	0.37
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	19	0.37
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	19	0.37
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	19	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	4	0.37
(2,317)	1:125:A:ARG:H	1:91:A:TYR:H	18	0.37
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	11	0.37
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG13	11	0.37
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG12	11	0.37
(2,302)	1:120:A:ILE:HG21	1:122:A:LEU:H	18	0.37
(2,302)	1:120:A:ILE:HG22	1:122:A:LEU:H	18	0.37
(2,302)	1:120:A:ILE:HG23	1:122:A:LEU:H	18	0.37
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	14	0.37
(1,13)	3:304:A:ZN:ZN	1:198:A:HIS:NE2	1	0.37
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	2	0.37
(1,10)	3:303:A:ZN:ZN	1:171:A:HIS:ND1	9	0.37
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	13	0.37
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	17	0.37
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	19	0.37
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	6	0.37
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	9	0.37
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	11	0.37
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD2	1	0.37
(3,29)	1:129:A:TRP:HE1	4:329:A:PX4:C35	19	0.36
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB3	9	0.36
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB2	9	0.36
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB3	9	0.36
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB2	9	0.36
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	3	0.36
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	3	0.36
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	13	0.36
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	1	0.36
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	1	0.36
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	12	0.36
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	12	0.36
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	5	0.36
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	5	0.36
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	8	0.36
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	8	0.36
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	18	0.36
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	18	0.36
(2,911)	1:69:A:VAL:HG21	1:69:A:VAL:H	9	0.36
(2,911)	1:69:A:VAL:HG22	1:69:A:VAL:H	9	0.36
(2,911)	1:69:A:VAL:HG23	1:69:A:VAL:H	9	0.36
(2,911)	1:69:A:VAL:HG11	1:69:A:VAL:H	9	0.36
(2,911)	1:69:A:VAL:HG12	1:69:A:VAL:H	9	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,911)	1:69:A:VAL:HG13	1:69:A:VAL:H	9	0.36
(2,852)	1:127:A:VAL:HG21	1:125:A:ARG:HG2	20	0.36
(2,852)	1:127:A:VAL:HG22	1:125:A:ARG:HG2	20	0.36
(2,852)	1:127:A:VAL:HG23	1:125:A:ARG:HG2	20	0.36
(2,844)	1:200:A:LEU:HD22	1:122:A:LEU:HD21	19	0.36
(2,765)	1:22:A:PHE:H	1:19:A:LEU:HD21	16	0.36
(2,748)	1:89:A:VAL:HG12	1:122:A:LEU:HD21	16	0.36
(2,733)	1:196:A:LEU:HD21	1:113:A:LEU:HD21	18	0.36
(2,693)	1:11:A:GLN:H	1:8:A:SER:H	17	0.36
(2,672)	1:66:A:ARG:H	1:156:A:LEU:HD22	16	0.36
(2,672)	1:66:A:ARG:H	1:156:A:LEU:HD23	16	0.36
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	10	0.36
(2,624)	1:11:A:GLN:H	1:8:A:SER:H	17	0.36
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	13	0.36
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	17	0.36
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	10	0.36
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	10	0.36
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD22	8	0.36
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD23	8	0.36
(2,507)	1:199:A:SER:H	1:202:A:MET:H	9	0.36
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	13	0.36
(2,390)	1:156:A:LEU:H	1:68:A:GLY:H	16	0.36
(2,369)	1:143:A:HIS:H	1:145:A:ASP:H	10	0.36
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	9	0.36
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	9	0.36
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	9	0.36
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	15	0.36
(2,124)	1:156:A:LEU:H	1:68:A:GLY:H	16	0.36
(1,13)	3:304:A:ZN:ZN	1:194:A:HIS:NE2	9	0.36
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	1	0.36
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	7	0.36
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	17	0.36
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	1	0.36
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	14	0.36
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	17	0.36
(3,24)	1:106:A:ASP:H	4:339:A:PX4:C35	13	0.35
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	9	0.35
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	14	0.35
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	14	0.35
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	10	0.35
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	13	0.35
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	13	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	10	0.35
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	17	0.35
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	17	0.35
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	8	0.35
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	15	0.35
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	15	0.35
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	15	0.35
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	15	0.35
(2,671)	1:66:A:ARG:H	1:156:A:LEU:HD21	9	0.35
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	6	0.35
(2,540)	1:209:A:ASN:HD21	1:209:A:ASN:HD22	6	0.35
(2,504)	1:198:A:HIS:H	1:202:A:MET:H	19	0.35
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	7	0.35
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	7	0.35
(2,472)	1:186:A:ILE:H	1:156:A:LEU:HD21	7	0.35
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	15	0.35
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	13	0.35
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	8	0.35
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	19	0.35
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	19	0.35
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	19	0.35
(2,257)	1:112:A:ALA:H	1:189:A:LEU:HD21	6	0.35
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	12	0.35
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	13	0.35
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	19	0.35
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	19	0.35
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	19	0.35
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	11	0.35
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	17	0.35
(2,62)	1:50:A:ILE:HG12	1:50:A:ILE:H	13	0.35
(1,12)	3:303:A:ZN:ZN	1:143:A:HIS:NE2	2	0.35
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	13	0.35
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	14	0.35
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	14	0.34
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	14	0.34
(2,953)	1:74:A:GLU:HB3	1:76:A:SER:H	19	0.34
(2,953)	1:74:A:GLU:HB3	1:76:A:SER:H	19	0.34
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	10	0.34
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	10	0.34
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	16	0.34
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD11	20	0.34
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD12	20	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD13	20	0.34
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	1	0.34
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	1	0.34
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	1	0.34
(2,741)	1:114:A:ASN:H	1:113:A:LEU:HD21	11	0.34
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	4	0.34
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	4	0.34
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	4	0.34
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	20	0.34
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD22	20	0.34
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD23	20	0.34
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	16	0.34
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	16	0.34
(2,507)	1:199:A:SER:H	1:202:A:MET:H	20	0.34
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	16	0.34
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	16	0.34
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	16	0.34
(2,392)	1:157:A:ALA:H	1:68:A:GLY:H	2	0.34
(2,378)	1:10:A:LEU:H	1:10:A:LEU:HD11	6	0.34
(2,378)	1:10:A:LEU:H	1:10:A:LEU:HD12	6	0.34
(2,378)	1:10:A:LEU:H	1:10:A:LEU:HD13	6	0.34
(2,369)	1:143:A:HIS:H	1:145:A:ASP:H	8	0.34
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	1	0.34
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	1	0.34
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	1	0.34
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	14	0.34
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	14	0.34
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	14	0.34
(2,316)	1:125:A:ARG:H	1:89:A:VAL:H	20	0.34
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	17	0.34
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD11	20	0.34
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD12	20	0.34
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD13	20	0.34
(2,274)	1:116:A:TRP:HE1	1:197:A:GLY:H	10	0.34
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	7	0.34
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	17	0.34
(2,162)	1:125:A:ARG:H	1:89:A:VAL:H	20	0.34
(2,67)	1:53:A:MET:H	1:52:A:GLY:H	4	0.34
(2,64)	1:52:A:GLY:H	1:53:A:MET:H	4	0.34
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG13	19	0.34
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG12	19	0.34
(1,13)	3:304:A:ZN:ZN	1:204:A:HIS:NE2	2	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,13)	3:304:A:ZN:ZN	1:204:A:HIS:NE2	7	0.34
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	5	0.34
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	9	0.34
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD11	14	0.33
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD12	14	0.33
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD13	14	0.33
(2,953)	1:74:A:GLU:HB3	1:76:A:SER:H	6	0.33
(2,953)	1:74:A:GLU:HB3	1:76:A:SER:H	6	0.33
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	10	0.33
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	10	0.33
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG11	6	0.33
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG12	6	0.33
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG13	6	0.33
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG11	6	0.33
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG12	6	0.33
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG13	6	0.33
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG11	6	0.33
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG12	6	0.33
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG13	6	0.33
(2,868)	1:186:A:ILE:HD11	1:156:A:LEU:HD22	14	0.33
(2,868)	1:186:A:ILE:HD11	1:156:A:LEU:HD23	14	0.33
(2,868)	1:186:A:ILE:HD11	1:156:A:LEU:HD22	16	0.33
(2,868)	1:186:A:ILE:HD11	1:156:A:LEU:HD23	16	0.33
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD11	10	0.33
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD12	10	0.33
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD13	10	0.33
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD11	4	0.33
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD12	4	0.33
(2,757)	1:54:A:LEU:HD21	1:39:A:LEU:HD13	4	0.33
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG11	6	0.33
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG12	6	0.33
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG13	6	0.33
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG11	6	0.33
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG12	6	0.33
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG13	6	0.33
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG11	6	0.33
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG12	6	0.33
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG13	6	0.33
(2,741)	1:114:A:ASN:H	1:113:A:LEU:HD21	7	0.33
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	19	0.33
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	15	0.33
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	15	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	15	0.33
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	4	0.33
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	5	0.33
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD11	14	0.33
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD12	14	0.33
(2,471)	1:186:A:ILE:H	1:156:A:LEU:HD13	14	0.33
(2,454)	1:178:A:TRP:HE1	1:178:A:TRP:H	15	0.33
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	13	0.33
(2,384)	1:154:A:ASN:HD22	1:154:A:ASN:HD21	13	0.33
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	14	0.33
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	12	0.33
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD11	10	0.33
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD12	10	0.33
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD13	10	0.33
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	9	0.33
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD11	8	0.33
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD12	8	0.33
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD13	8	0.33
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD11	19	0.33
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD12	19	0.33
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD13	19	0.33
(2,8)	1:135:A:MET:H	1:92:A:ARG:H	6	0.33
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	11	0.33
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD1	7	0.33
(3,30)	1:145:A:ASP:H	4:347:A:PX4:C35	12	0.32
(2,985)	1:80:A:ASN:H	1:78:A:PHE:HD1	8	0.32
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	5	0.32
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	5	0.32
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	14	0.32
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	14	0.32
(2,925)	1:72:A:VAL:HG21	1:73:A:ALA:H	14	0.32
(2,925)	1:72:A:VAL:HG22	1:73:A:ALA:H	14	0.32
(2,925)	1:72:A:VAL:HG23	1:73:A:ALA:H	14	0.32
(2,925)	1:72:A:VAL:HG11	1:73:A:ALA:H	14	0.32
(2,925)	1:72:A:VAL:HG12	1:73:A:ALA:H	14	0.32
(2,925)	1:72:A:VAL:HG13	1:73:A:ALA:H	14	0.32
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	12	0.32
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG21	12	0.32
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG22	12	0.32
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG23	12	0.32
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	1	0.32
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	1	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	1	0.32
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	11	0.32
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	7	0.32
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	7	0.32
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	7	0.32
(2,778)	1:61:A:ILE:HD13	1:48:A:LEU:HD22	16	0.32
(2,778)	1:61:A:ILE:HD13	1:48:A:LEU:HD23	16	0.32
(2,741)	1:114:A:ASN:H	1:113:A:LEU:HD21	3	0.32
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	13	0.32
(2,543)	1:210:A:ALA:H	1:213:A:TYR:H	17	0.32
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	1	0.32
(2,489)	1:116:A:TRP:HE1	1:196:A:LEU:H	10	0.32
(2,425)	1:170:A:ALA:H	1:169:A:ASP:H	3	0.32
(2,275)	1:116:A:TRP:HE1	1:196:A:LEU:H	10	0.32
(2,239)	1:108:A:LEU:H	1:108:A:LEU:HD21	6	0.32
(2,125)	1:157:A:ALA:H	1:68:A:GLY:H	18	0.32
(2,67)	1:53:A:MET:H	1:52:A:GLY:H	6	0.32
(2,64)	1:52:A:GLY:H	1:53:A:MET:H	6	0.32
(2,62)	1:50:A:ILE:HG12	1:50:A:ILE:H	1	0.32
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD11	3	0.32
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD12	3	0.32
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD13	3	0.32
(1,13)	3:304:A:ZN:ZN	1:198:A:HIS:NE2	6	0.32
(1,13)	3:304:A:ZN:ZN	1:198:A:HIS:NE2	11	0.32
(1,13)	3:304:A:ZN:ZN	1:204:A:HIS:NE2	13	0.32
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	11	0.32
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	1	0.32
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	8	0.32
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	4	0.32
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	18	0.32
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	1	0.31
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	1	0.31
(2,953)	1:74:A:GLU:HB3	1:76:A:SER:H	7	0.31
(2,953)	1:74:A:GLU:HB3	1:76:A:SER:H	7	0.31
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	13	0.31
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	12	0.31
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	2	0.31
(2,904)	1:67:A:CYS:H	1:67:A:CYS:HA	1	0.31
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	7	0.31
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	9	0.31
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	20	0.31
(2,746)	1:89:A:VAL:HG11	1:122:A:LEU:HD21	16	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD22	6	0.31
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD23	6	0.31
(2,721)	1:113:A:LEU:HD11	1:196:A:LEU:HD21	2	0.31
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	2	0.31
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	8	0.31
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	4	0.31
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	12	0.31
(2,627)	1:13:A:GLU:H	1:10:A:LEU:H	2	0.31
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	12	0.31
(2,577)	1:231:A:ILE:HD11	1:226:A:LEU:H	19	0.31
(2,577)	1:231:A:ILE:HD12	1:226:A:LEU:H	19	0.31
(2,577)	1:231:A:ILE:HD13	1:226:A:LEU:H	19	0.31
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	8	0.31
(2,489)	1:116:A:TRP:HE1	1:196:A:LEU:H	17	0.31
(2,424)	1:169:A:ASP:H	1:166:A:LEU:HB3	8	0.31
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	2	0.31
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	2	0.31
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	2	0.31
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	5	0.31
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	5	0.31
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	5	0.31
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	8	0.31
(2,410)	1:167:A:GLY:H	1:165:A:GLY:H	20	0.31
(2,388)	1:66:A:ARG:H	1:156:A:LEU:H	9	0.31
(2,369)	1:143:A:HIS:H	1:145:A:ASP:H	2	0.31
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	5	0.31
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	5	0.31
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	5	0.31
(2,275)	1:116:A:TRP:HE1	1:196:A:LEU:H	17	0.31
(2,265)	1:113:A:LEU:H	1:196:A:LEU:HD22	8	0.31
(2,265)	1:113:A:LEU:H	1:196:A:LEU:HD23	8	0.31
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	15	0.31
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	20	0.31
(2,120)	1:66:A:ARG:H	1:156:A:LEU:H	9	0.31
(2,103)	1:39:A:LEU:H	1:37:A:ALA:H	13	0.31
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	2	0.31
(1,13)	3:304:A:ZN:ZN	1:204:A:HIS:NE2	3	0.31
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	3	0.31
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	12	0.31
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD2	3	0.31
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD1	4	0.31
(2,982)	1:78:A:PHE:HD1	1:80:A:ASN:H	14	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	6	0.3
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	6	0.3
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD11	7	0.3
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD12	7	0.3
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD13	7	0.3
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	2	0.3
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	3	0.3
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	3	0.3
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	12	0.3
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	9	0.3
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	9	0.3
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	1	0.3
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	1	0.3
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	19	0.3
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	19	0.3
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	3	0.3
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	19	0.3
(2,916)	1:71:A:ASP:H	1:72:A:VAL:HA	19	0.3
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	12	0.3
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	12	0.3
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	3	0.3
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	7	0.3
(2,890)	1:63:A:GLN:H	1:63:A:GLN:HG3	7	0.3
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	17	0.3
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	17	0.3
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	17	0.3
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	18	0.3
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	18	0.3
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	18	0.3
(2,680)	1:158:A:HIS:H	1:172:A:PHE:H	1	0.3
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	2	0.3
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	6	0.3
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	8	0.3
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	16	0.3
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	16	0.3
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	16	0.3
(2,587)	1:232:A:LYS:H	1:231:A:ILE:HD11	2	0.3
(2,587)	1:232:A:LYS:H	1:231:A:ILE:HD12	2	0.3
(2,587)	1:232:A:LYS:H	1:231:A:ILE:HD13	2	0.3
(2,504)	1:198:A:HIS:H	1:202:A:MET:H	4	0.3
(2,500)	1:116:A:TRP:HE1	1:198:A:HIS:H	4	0.3
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD22	18	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD23	18	0.3
(2,397)	1:169:A:ASP:H	1:160:A:PHE:H	10	0.3
(2,380)	1:10:A:LEU:H	1:10:A:LEU:HD22	10	0.3
(2,380)	1:10:A:LEU:H	1:10:A:LEU:HD23	10	0.3
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	6	0.3
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	6	0.3
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	6	0.3
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	12	0.3
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	12	0.3
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	12	0.3
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG13	8	0.3
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG12	8	0.3
(2,274)	1:116:A:TRP:HE1	1:197:A:GLY:H	5	0.3
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	8	0.3
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	4	0.3
(1,10)	3:303:A:ZN:ZN	1:171:A:HIS:ND1	20	0.3
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	9	0.3
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	15	0.3
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	11	0.3
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD1	2	0.3
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD1	5	0.3
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	16	0.29
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	16	0.29
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	17	0.29
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	17	0.29
(2,930)	1:72:A:VAL:HG11	1:75:A:TYR:H	14	0.29
(2,930)	1:72:A:VAL:HG12	1:75:A:TYR:H	14	0.29
(2,930)	1:72:A:VAL:HG13	1:75:A:TYR:H	14	0.29
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	11	0.29
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	11	0.29
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	16	0.29
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	16	0.29
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	6	0.29
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	15	0.29
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	12	0.29
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	10	0.29
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	10	0.29
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	5	0.29
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	5	0.29
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	16	0.29
(2,896)	1:64:A:LYS:H	1:64:A:LYS:HE3	16	0.29
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	3	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	17	0.29
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	3	0.29
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	3	0.29
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	3	0.29
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	12	0.29
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	12	0.29
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	12	0.29
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	15	0.29
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	15	0.29
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	15	0.29
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	3	0.29
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	3	0.29
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	3	0.29
(2,788)	1:58:A:VAL:HG11	1:39:A:LEU:HD21	9	0.29
(2,713)	1:105:A:VAL:HG21	1:100:A:LEU:H	4	0.29
(2,713)	1:105:A:VAL:HG22	1:100:A:LEU:H	4	0.29
(2,713)	1:105:A:VAL:HG23	1:100:A:LEU:H	4	0.29
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	5	0.29
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	11	0.29
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	8	0.29
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	7	0.29
(2,568)	1:235:A:GLN:H	1:233:A:GLY:H	3	0.29
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	1	0.29
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	11	0.29
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	15	0.29
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	13	0.29
(2,388)	1:66:A:ARG:H	1:156:A:LEU:H	12	0.29
(2,381)	1:151:A:GLY:H	1:150:A:ASP:H	12	0.29
(2,368)	1:151:A:GLY:H	1:150:A:ASP:H	12	0.29
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	4	0.29
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	4	0.29
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	4	0.29
(2,335)	1:133:A:ASP:H	1:127:A:VAL:HG11	10	0.29
(2,335)	1:133:A:ASP:H	1:127:A:VAL:HG12	10	0.29
(2,335)	1:133:A:ASP:H	1:127:A:VAL:HG13	10	0.29
(2,302)	1:120:A:ILE:HG21	1:122:A:LEU:H	9	0.29
(2,302)	1:120:A:ILE:HG22	1:122:A:LEU:H	9	0.29
(2,302)	1:120:A:ILE:HG23	1:122:A:LEU:H	9	0.29
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	11	0.29
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	19	0.29
(2,212)	1:120:A:ILE:HD11	1:237:A:LEU:H	20	0.29
(2,212)	1:120:A:ILE:HD12	1:237:A:LEU:H	20	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,212)	1:120:A:ILE:HD13	1:237:A:LEU:H	20	0.29
(2,209)	1:105:A:VAL:HG21	1:100:A:LEU:H	4	0.29
(2,209)	1:105:A:VAL:HG22	1:100:A:LEU:H	4	0.29
(2,209)	1:105:A:VAL:HG23	1:100:A:LEU:H	4	0.29
(2,120)	1:66:A:ARG:H	1:156:A:LEU:H	12	0.29
(2,103)	1:39:A:LEU:H	1:37:A:ALA:H	7	0.29
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	14	0.29
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	1	0.29
(1,13)	3:304:A:ZN:ZN	1:204:A:HIS:NE2	8	0.29
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	1	0.29
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD2	13	0.29
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD1	18	0.29
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD1	20	0.29
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	5	0.28
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	5	0.28
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	12	0.28
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	12	0.28
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	3	0.28
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	3	0.28
(2,918)	1:72:A:VAL:H	1:70:A:PRO:HB3	5	0.28
(2,918)	1:72:A:VAL:H	1:70:A:PRO:HB2	5	0.28
(2,918)	1:72:A:VAL:H	1:70:A:PRO:HB3	5	0.28
(2,918)	1:72:A:VAL:H	1:70:A:PRO:HB2	5	0.28
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG21	19	0.28
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG22	19	0.28
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG23	19	0.28
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	12	0.28
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	13	0.28
(2,857)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	8	0.28
(2,845)	1:200:A:LEU:HD22	1:122:A:LEU:HD22	9	0.28
(2,845)	1:200:A:LEU:HD22	1:122:A:LEU:HD23	9	0.28
(2,791)	1:58:A:VAL:HG12	1:39:A:LEU:HD22	20	0.28
(2,791)	1:58:A:VAL:HG12	1:39:A:LEU:HD23	20	0.28
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	8	0.28
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	15	0.28
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	10	0.28
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	14	0.28
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	4	0.28
(2,504)	1:198:A:HIS:H	1:202:A:MET:H	10	0.28
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	11	0.28
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	11	0.28
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	11	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	11	0.28
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	11	0.28
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	11	0.28
(2,381)	1:151:A:GLY:H	1:150:A:ASP:H	17	0.28
(2,368)	1:151:A:GLY:H	1:150:A:ASP:H	17	0.28
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	10	0.28
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	10	0.28
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	10	0.28
(2,305)	1:123:A:HIS:H	1:122:A:LEU:HD21	7	0.28
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	15	0.28
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	20	0.28
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	1	0.28
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	3	0.28
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	9	0.28
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	20	0.28
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	10	0.28
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	14	0.28
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	2	0.28
(1,2)	2:301:A:CA:CA	1:133:A:ASP:O	8	0.28
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD1	9	0.28
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	8	0.27
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	1	0.27
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	17	0.27
(2,966)	1:77:A:LEU:H	1:77:A:LEU:HB3	18	0.27
(2,966)	1:77:A:LEU:H	1:77:A:LEU:HB3	18	0.27
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	8	0.27
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	8	0.27
(2,961)	1:75:A:TYR:HD1	1:76:A:SER:H	17	0.27
(2,961)	1:75:A:TYR:HD2	1:76:A:SER:H	17	0.27
(2,953)	1:74:A:GLU:HB3	1:76:A:SER:H	10	0.27
(2,953)	1:74:A:GLU:HB3	1:76:A:SER:H	10	0.27
(2,949)	1:74:A:GLU:H	1:75:A:TYR:H	12	0.27
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	4	0.27
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	5	0.27
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	20	0.27
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG11	15	0.27
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG12	15	0.27
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG13	15	0.27
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG11	15	0.27
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG12	15	0.27
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG13	15	0.27
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG11	15	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG12	15	0.27
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG13	15	0.27
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	6	0.27
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	6	0.27
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	6	0.27
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	8	0.27
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	8	0.27
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	8	0.27
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	7	0.27
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	7	0.27
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	7	0.27
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG11	15	0.27
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG12	15	0.27
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG13	15	0.27
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG11	15	0.27
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG12	15	0.27
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG13	15	0.27
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG11	15	0.27
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG12	15	0.27
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG13	15	0.27
(2,693)	1:11:A:GLN:H	1:8:A:SER:H	19	0.27
(2,680)	1:158:A:HIS:H	1:172:A:PHE:H	18	0.27
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	8	0.27
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	1	0.27
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	3	0.27
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	6	0.27
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	7	0.27
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	18	0.27
(2,624)	1:11:A:GLN:H	1:8:A:SER:H	19	0.27
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG11	4	0.27
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG12	4	0.27
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG13	4	0.27
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG21	4	0.27
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG22	4	0.27
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG23	4	0.27
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	1	0.27
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	5	0.27
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	5	0.27
(2,500)	1:116:A:TRP:HE1	1:198:A:HIS:H	3	0.27
(2,453)	1:178:A:TRP:HE1	1:175:A:ASP:H	14	0.27
(2,442)	1:175:A:ASP:H	1:178:A:TRP:HE1	14	0.27
(2,378)	1:10:A:LEU:H	1:10:A:LEU:HD11	20	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,378)	1:10:A:LEU:H	1:10:A:LEU:HD12	20	0.27
(2,378)	1:10:A:LEU:H	1:10:A:LEU:HD13	20	0.27
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	7	0.27
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	7	0.27
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	7	0.27
(2,321)	1:128:A:VAL:HG11	1:126:A:LYS:H	3	0.27
(2,321)	1:128:A:VAL:HG12	1:126:A:LYS:H	3	0.27
(2,321)	1:128:A:VAL:HG13	1:126:A:LYS:H	3	0.27
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	2	0.27
(2,305)	1:123:A:HIS:H	1:122:A:LEU:HD21	15	0.27
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	14	0.27
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	14	0.27
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	9	0.27
(2,103)	1:39:A:LEU:H	1:37:A:ALA:H	2	0.27
(2,103)	1:39:A:LEU:H	1:37:A:ALA:H	15	0.27
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	16	0.27
(2,71)	1:55:A:ASN:H	1:54:A:LEU:HD21	13	0.27
(2,63)	1:52:A:GLY:H	1:51:A:THR:H	16	0.27
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	7	0.27
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	16	0.27
(1,13)	3:304:A:ZN:ZN	1:194:A:HIS:NE2	20	0.27
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	8	0.27
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	18	0.27
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	19	0.27
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD2	10	0.27
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	7	0.26
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	7	0.26
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	1	0.26
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	5	0.26
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	12	0.26
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	12	0.26
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	6	0.26
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	17	0.26
(2,916)	1:71:A:ASP:H	1:72:A:VAL:HA	1	0.26
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	2	0.26
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	2	0.26
(2,792)	1:58:A:VAL:HG13	1:39:A:LEU:HD21	6	0.26
(2,764)	1:120:A:ILE:HD11	1:122:A:LEU:H	13	0.26
(2,764)	1:120:A:ILE:HD12	1:122:A:LEU:H	13	0.26
(2,764)	1:120:A:ILE:HD13	1:122:A:LEU:H	13	0.26
(2,764)	1:120:A:ILE:HD11	1:122:A:LEU:H	14	0.26
(2,764)	1:120:A:ILE:HD12	1:122:A:LEU:H	14	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,764)	1:120:A:ILE:HD13	1:122:A:LEU:H	14	0.26
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD11	12	0.26
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD12	12	0.26
(2,758)	1:54:A:LEU:HD22	1:39:A:LEU:HD13	12	0.26
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD11	12	0.26
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD12	12	0.26
(2,758)	1:54:A:LEU:HD23	1:39:A:LEU:HD13	12	0.26
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	1	0.26
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	1	0.26
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	3	0.26
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	13	0.26
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	14	0.26
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	2	0.26
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	2	0.26
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	2	0.26
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	19	0.26
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	19	0.26
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	19	0.26
(2,579)	1:227:A:SER:H	1:230:A:ASP:H	17	0.26
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	4	0.26
(2,543)	1:210:A:ALA:H	1:213:A:TYR:H	7	0.26
(2,503)	1:198:A:HIS:H	1:201:A:GLY:H	4	0.26
(2,489)	1:116:A:TRP:HE1	1:196:A:LEU:H	5	0.26
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD22	11	0.26
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD23	11	0.26
(2,454)	1:178:A:TRP:HE1	1:178:A:TRP:H	2	0.26
(2,381)	1:151:A:GLY:H	1:150:A:ASP:H	13	0.26
(2,368)	1:151:A:GLY:H	1:150:A:ASP:H	13	0.26
(2,316)	1:125:A:ARG:H	1:89:A:VAL:H	19	0.26
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	13	0.26
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	16	0.26
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG13	19	0.26
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG12	19	0.26
(2,301)	1:120:A:ILE:HD11	1:122:A:LEU:H	13	0.26
(2,301)	1:120:A:ILE:HD12	1:122:A:LEU:H	13	0.26
(2,301)	1:120:A:ILE:HD13	1:122:A:LEU:H	13	0.26
(2,301)	1:120:A:ILE:HD11	1:122:A:LEU:H	14	0.26
(2,301)	1:120:A:ILE:HD12	1:122:A:LEU:H	14	0.26
(2,301)	1:120:A:ILE:HD13	1:122:A:LEU:H	14	0.26
(2,275)	1:116:A:TRP:HE1	1:196:A:LEU:H	5	0.26
(2,162)	1:125:A:ARG:H	1:89:A:VAL:H	19	0.26
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	15	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,62)	1:50:A:ILE:HG12	1:50:A:ILE:H	14	0.26
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	2	0.26
(2,22)	1:227:A:SER:H	1:230:A:ASP:H	17	0.26
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	5	0.26
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	12	0.26
(1,10)	3:303:A:ZN:ZN	1:171:A:HIS:ND1	17	0.26
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	10	0.26
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	19	0.26
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	12	0.25
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	19	0.25
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	20	0.25
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	20	0.25
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	6	0.25
(2,916)	1:71:A:ASP:H	1:72:A:VAL:HA	12	0.25
(2,834)	1:120:A:ILE:HD12	1:200:A:LEU:HD21	12	0.25
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	9	0.25
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	9	0.25
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	9	0.25
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	5	0.25
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	5	0.25
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	5	0.25
(2,788)	1:58:A:VAL:HG11	1:39:A:LEU:HD21	1	0.25
(2,777)	1:61:A:ILE:HD13	1:48:A:LEU:HD21	14	0.25
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	20	0.25
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	20	0.25
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	20	0.25
(2,733)	1:196:A:LEU:HD21	1:113:A:LEU:HD21	10	0.25
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD11	4	0.25
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD12	4	0.25
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD13	4	0.25
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD11	4	0.25
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD12	4	0.25
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD13	4	0.25
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD11	4	0.25
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD12	4	0.25
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD13	4	0.25
(2,708)	1:226:A:LEU:HD11	1:231:A:ILE:HG13	6	0.25
(2,708)	1:226:A:LEU:HD12	1:231:A:ILE:HG13	6	0.25
(2,708)	1:226:A:LEU:HD13	1:231:A:ILE:HG13	6	0.25
(2,708)	1:226:A:LEU:HD11	1:231:A:ILE:HG12	6	0.25
(2,708)	1:226:A:LEU:HD12	1:231:A:ILE:HG12	6	0.25
(2,708)	1:226:A:LEU:HD13	1:231:A:ILE:HG12	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,680)	1:158:A:HIS:H	1:172:A:PHE:H	20	0.25
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	16	0.25
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	5	0.25
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	20	0.25
(2,564)	1:231:A:ILE:H	1:231:A:ILE:HG13	16	0.25
(2,564)	1:231:A:ILE:H	1:231:A:ILE:HG12	16	0.25
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	16	0.25
(2,543)	1:210:A:ALA:H	1:213:A:TYR:H	6	0.25
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	8	0.25
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	8	0.25
(2,499)	1:197:A:GLY:H	1:198:A:HIS:H	16	0.25
(2,499)	1:197:A:GLY:H	1:198:A:HIS:H	16	0.25
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD22	18	0.25
(2,473)	1:186:A:ILE:H	1:156:A:LEU:HD23	18	0.25
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD22	12	0.25
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD23	12	0.25
(2,462)	1:182:A:SER:H	1:181:A:GLY:H	19	0.25
(2,462)	1:182:A:SER:H	1:181:A:GLY:H	19	0.25
(2,454)	1:178:A:TRP:HE1	1:178:A:TRP:H	3	0.25
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	9	0.25
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	9	0.25
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	9	0.25
(2,381)	1:151:A:GLY:H	1:150:A:ASP:H	7	0.25
(2,368)	1:151:A:GLY:H	1:150:A:ASP:H	7	0.25
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	3	0.25
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	7	0.25
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG13	7	0.25
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG12	7	0.25
(2,257)	1:112:A:ALA:H	1:189:A:LEU:HD21	2	0.25
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	12	0.25
(2,215)	1:103:A:ILE:H	1:103:A:ILE:HG13	7	0.25
(2,215)	1:103:A:ILE:H	1:103:A:ILE:HG12	7	0.25
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	13	0.25
(2,62)	1:50:A:ILE:HG12	1:50:A:ILE:H	8	0.25
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD11	15	0.25
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD12	15	0.25
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD13	15	0.25
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	5	0.25
(1,13)	3:304:A:ZN:ZN	1:204:A:HIS:NE2	16	0.25
(1,7)	2:302:A:CA:CA	1:151:A:GLY:O	4	0.25
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD1	12	0.25
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD2	15	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	16	0.24
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	11	0.24
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	3	0.24
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	3	0.24
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	2	0.24
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	2	0.24
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	10	0.24
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	10	0.24
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	1	0.24
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	17	0.24
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	17	0.24
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	14	0.24
(2,901)	1:66:A:ARG:H	1:66:A:ARG:HB3	8	0.24
(2,901)	1:66:A:ARG:H	1:66:A:ARG:HB3	8	0.24
(2,857)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	12	0.24
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	8	0.24
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	8	0.24
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	8	0.24
(2,683)	1:179:A:THR:HG21	1:185:A:GLY:H	8	0.24
(2,683)	1:179:A:THR:HG22	1:185:A:GLY:H	8	0.24
(2,683)	1:179:A:THR:HG23	1:185:A:GLY:H	8	0.24
(2,680)	1:158:A:HIS:H	1:172:A:PHE:H	9	0.24
(2,671)	1:66:A:ARG:H	1:156:A:LEU:HD21	15	0.24
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	4	0.24
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	19	0.24
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	20	0.24
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	7	0.24
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	11	0.24
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	16	0.24
(2,558)	1:23:A:TYR:H	1:24:A:LEU:H	5	0.24
(2,533)	1:23:A:TYR:H	1:24:A:LEU:H	5	0.24
(2,391)	1:157:A:ALA:H	1:156:A:LEU:H	10	0.24
(2,385)	1:157:A:ALA:H	1:156:A:LEU:H	10	0.24
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	3	0.24
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	3	0.24
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	3	0.24
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	16	0.24
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	16	0.24
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	16	0.24
(2,317)	1:125:A:ARG:H	1:91:A:TYR:H	1	0.24
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	5	0.24
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	8	0.24
(2,14)	1:159:A:ALA:H	1:171:A:HIS:H	1	0.24
(2,14)	1:159:A:ALA:H	1:171:A:HIS:H	3	0.24
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	3	0.24
(1,4)	2:302:A:CA:CA	1:155:A:THR:O	16	0.24
(1,3)	2:301:A:CA:CA	1:165:A:GLY:O	12	0.24
(3,30)	1:145:A:ASP:H	4:331:A:PX4:C35	19	0.23
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB3	5	0.23
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB2	5	0.23
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB3	5	0.23
(2,986)	1:80:A:ASN:H	1:79:A:PRO:HB2	5	0.23
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	2	0.23
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	2	0.23
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	4	0.23
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	4	0.23
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	7	0.23
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	7	0.23
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	7	0.23
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	18	0.23
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	11	0.23
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG21	6	0.23
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG22	6	0.23
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG23	6	0.23
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG11	6	0.23
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG12	6	0.23
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG13	6	0.23
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	12	0.23
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	1	0.23
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	1	0.23
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	5	0.23
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	7	0.23
(2,847)	1:200:A:LEU:HD23	1:122:A:LEU:HD22	18	0.23
(2,847)	1:200:A:LEU:HD23	1:122:A:LEU:HD23	18	0.23
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD22	2	0.23
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD23	2	0.23
(2,727)	1:211:A:VAL:HG11	1:226:A:LEU:HD21	11	0.23
(2,677)	1:125:A:ARG:H	1:90:A:THR:H	11	0.23
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG21	11	0.23
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG22	11	0.23
(2,661)	1:4:A:ALA:H	1:59:A:ILE:HG23	11	0.23
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	10	0.23
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	17	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	18	0.23
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	2	0.23
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	13	0.23
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	19	0.23
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD11	12	0.23
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD12	12	0.23
(2,608)	1:238:A:TYR:H	1:120:A:ILE:HD13	12	0.23
(2,570)	1:226:A:LEU:H	1:226:A:LEU:HD21	18	0.23
(2,564)	1:231:A:ILE:H	1:231:A:ILE:HG13	3	0.23
(2,564)	1:231:A:ILE:H	1:231:A:ILE:HG12	3	0.23
(2,503)	1:198:A:HIS:H	1:201:A:GLY:H	13	0.23
(2,454)	1:178:A:TRP:HE1	1:178:A:TRP:H	10	0.23
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	14	0.23
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	14	0.23
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	14	0.23
(2,369)	1:143:A:HIS:H	1:145:A:ASP:H	7	0.23
(2,316)	1:125:A:ARG:H	1:89:A:VAL:H	15	0.23
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	8	0.23
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	3	0.23
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	3	0.23
(2,162)	1:125:A:ARG:H	1:89:A:VAL:H	15	0.23
(2,103)	1:39:A:LEU:H	1:37:A:ALA:H	20	0.23
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	6	0.23
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	10	0.23
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	12	0.23
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	14	0.23
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	17	0.23
(1,13)	3:304:A:ZN:ZN	1:204:A:HIS:NE2	17	0.23
(1,10)	3:303:A:ZN:ZN	1:171:A:HIS:ND1	16	0.23
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	3	0.23
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	9	0.23
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	16	0.23
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD2	6	0.23
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD1	11	0.23
(1,2)	2:301:A:CA:CA	1:169:A:ASP:OD2	14	0.23
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	18	0.22
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	1	0.22
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	6	0.22
(2,970)	1:77:A:LEU:HG	1:78:A:PHE:H	3	0.22
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	19	0.22
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	19	0.22
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	20	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	20	0.22
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	5	0.22
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	4	0.22
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	10	0.22
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	10	0.22
(2,904)	1:67:A:CYS:H	1:67:A:CYS:HA	10	0.22
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	14	0.22
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	8	0.22
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	8	0.22
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	8	0.22
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	8	0.22
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	8	0.22
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	8	0.22
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	2	0.22
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	2	0.22
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	2	0.22
(2,785)	1:19:A:LEU:HD11	1:39:A:LEU:HD11	20	0.22
(2,785)	1:19:A:LEU:HD11	1:39:A:LEU:HD12	20	0.22
(2,785)	1:19:A:LEU:HD11	1:39:A:LEU:HD13	20	0.22
(2,785)	1:19:A:LEU:HD12	1:39:A:LEU:HD11	20	0.22
(2,785)	1:19:A:LEU:HD12	1:39:A:LEU:HD12	20	0.22
(2,785)	1:19:A:LEU:HD12	1:39:A:LEU:HD13	20	0.22
(2,785)	1:19:A:LEU:HD13	1:39:A:LEU:HD11	20	0.22
(2,785)	1:19:A:LEU:HD13	1:39:A:LEU:HD12	20	0.22
(2,785)	1:19:A:LEU:HD13	1:39:A:LEU:HD13	20	0.22
(2,748)	1:89:A:VAL:HG12	1:122:A:LEU:HD21	6	0.22
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD22	19	0.22
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD23	19	0.22
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	10	0.22
(2,693)	1:11:A:GLN:H	1:8:A:SER:H	13	0.22
(2,680)	1:158:A:HIS:H	1:172:A:PHE:H	12	0.22
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	13	0.22
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	17	0.22
(2,624)	1:11:A:GLN:H	1:8:A:SER:H	13	0.22
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	10	0.22
(2,501)	1:198:A:HIS:H	1:195:A:ALA:H	4	0.22
(2,482)	1:189:A:LEU:HD21	1:189:A:LEU:H	2	0.22
(2,381)	1:151:A:GLY:H	1:150:A:ASP:H	14	0.22
(2,369)	1:143:A:HIS:H	1:145:A:ASP:H	12	0.22
(2,368)	1:151:A:GLY:H	1:150:A:ASP:H	14	0.22
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG13	14	0.22
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG12	14	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,278)	1:116:A:TRP:HE1	1:211:A:VAL:HG11	6	0.22
(2,278)	1:116:A:TRP:HE1	1:211:A:VAL:HG12	6	0.22
(2,278)	1:116:A:TRP:HE1	1:211:A:VAL:HG13	6	0.22
(2,265)	1:113:A:LEU:H	1:196:A:LEU:HD22	2	0.22
(2,265)	1:113:A:LEU:H	1:196:A:LEU:HD23	2	0.22
(2,207)	1:98:A:ARG:H	1:100:A:LEU:H	2	0.22
(2,125)	1:157:A:ALA:H	1:68:A:GLY:H	20	0.22
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	3	0.22
(2,71)	1:55:A:ASN:H	1:54:A:LEU:HD21	8	0.22
(2,63)	1:52:A:GLY:H	1:51:A:THR:H	11	0.22
(2,62)	1:50:A:ILE:HG12	1:50:A:ILE:H	12	0.22
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	15	0.22
(2,14)	1:159:A:ALA:H	1:171:A:HIS:H	9	0.22
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	14	0.22
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	7	0.21
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	14	0.21
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	15	0.21
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	18	0.21
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	3	0.21
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	6	0.21
(2,949)	1:74:A:GLU:H	1:75:A:TYR:H	4	0.21
(2,949)	1:74:A:GLU:H	1:75:A:TYR:H	5	0.21
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	7	0.21
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	8	0.21
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	8	0.21
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	16	0.21
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	14	0.21
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	14	0.21
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	18	0.21
(2,859)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	14	0.21
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD22	15	0.21
(2,835)	1:120:A:ILE:HD12	1:200:A:LEU:HD23	15	0.21
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	9	0.21
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	9	0.21
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	9	0.21
(2,741)	1:114:A:ASN:H	1:113:A:LEU:HD21	6	0.21
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	3	0.21
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	12	0.21
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	15	0.21
(2,602)	1:237:A:LEU:H	1:239:A:GLY:H	7	0.21
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	16	0.21
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	20	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,504)	1:198:A:HIS:H	1:202:A:MET:H	14	0.21
(2,501)	1:198:A:HIS:H	1:195:A:ALA:H	20	0.21
(2,454)	1:178:A:TRP:HE1	1:178:A:TRP:H	9	0.21
(2,454)	1:178:A:TRP:HE1	1:178:A:TRP:H	14	0.21
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	7	0.21
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	7	0.21
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	7	0.21
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	14	0.21
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	14	0.21
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	14	0.21
(2,381)	1:151:A:GLY:H	1:150:A:ASP:H	5	0.21
(2,368)	1:151:A:GLY:H	1:150:A:ASP:H	5	0.21
(2,326)	1:128:A:VAL:H	1:129:A:TRP:H	12	0.21
(2,324)	1:128:A:VAL:H	1:129:A:TRP:H	12	0.21
(2,316)	1:125:A:ARG:H	1:89:A:VAL:H	6	0.21
(2,235)	1:104:A:THR:H	1:107:A:ARG:H	5	0.21
(2,181)	1:93:A:ILE:H	1:136:A:ILE:H	12	0.21
(2,162)	1:125:A:ARG:H	1:89:A:VAL:H	6	0.21
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG11	20	0.21
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG12	20	0.21
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG13	20	0.21
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG21	20	0.21
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG22	20	0.21
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG23	20	0.21
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	5	0.21
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	14	0.21
(2,103)	1:39:A:LEU:H	1:37:A:ALA:H	3	0.21
(2,103)	1:39:A:LEU:H	1:37:A:ALA:H	17	0.21
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	18	0.21
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	18	0.21
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	19	0.21
(2,8)	1:135:A:MET:H	1:92:A:ARG:H	9	0.21
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	1	0.21
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	7	0.21
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	8	0.21
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	4	0.2
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	2	0.2
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	2	0.2
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	6	0.2
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	6	0.2
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	20	0.2
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	20	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	13	0.2
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	15	0.2
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	16	0.2
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	5	0.2
(2,916)	1:71:A:ASP:H	1:72:A:VAL:HA	15	0.2
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG21	7	0.2
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG22	7	0.2
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG23	7	0.2
(2,904)	1:67:A:CYS:H	1:67:A:CYS:HA	8	0.2
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB3	12	0.2
(2,898)	1:66:A:ARG:H	1:63:A:GLN:HB2	12	0.2
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	20	0.2
(2,889)	1:63:A:GLN:HA	1:63:A:GLN:H	8	0.2
(2,848)	1:127:A:VAL:HG21	1:129:A:TRP:H	1	0.2
(2,848)	1:127:A:VAL:HG22	1:129:A:TRP:H	1	0.2
(2,848)	1:127:A:VAL:HG23	1:129:A:TRP:H	1	0.2
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	8	0.2
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	8	0.2
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	8	0.2
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	18	0.2
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	18	0.2
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	18	0.2
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG13	12	0.2
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG13	12	0.2
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG13	12	0.2
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG12	12	0.2
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG12	12	0.2
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG12	12	0.2
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	2	0.2
(2,776)	1:61:A:ILE:HD12	1:48:A:LEU:HD22	8	0.2
(2,776)	1:61:A:ILE:HD12	1:48:A:LEU:HD23	8	0.2
(2,748)	1:89:A:VAL:HG12	1:122:A:LEU:HD21	12	0.2
(2,683)	1:179:A:THR:HG21	1:185:A:GLY:H	14	0.2
(2,683)	1:179:A:THR:HG22	1:185:A:GLY:H	14	0.2
(2,683)	1:179:A:THR:HG23	1:185:A:GLY:H	14	0.2
(2,680)	1:158:A:HIS:H	1:172:A:PHE:H	10	0.2
(2,677)	1:125:A:ARG:H	1:90:A:THR:H	12	0.2
(2,670)	1:66:A:ARG:H	1:156:A:LEU:HD11	16	0.2
(2,670)	1:66:A:ARG:H	1:156:A:LEU:HD12	16	0.2
(2,670)	1:66:A:ARG:H	1:156:A:LEU:HD13	16	0.2
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	9	0.2
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	9	0.2
(2,632)	1:25:A:TYR:H	1:24:A:LEU:HD21	9	0.2
(2,539)	1:206:A:SER:H	1:207:A:ASP:H	19	0.2
(2,539)	1:206:A:SER:H	1:207:A:ASP:H	19	0.2
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD22	2	0.2
(2,467)	1:84:A:TRP:H	1:200:A:LEU:HD23	2	0.2
(2,462)	1:182:A:SER:H	1:181:A:GLY:H	18	0.2
(2,462)	1:182:A:SER:H	1:181:A:GLY:H	18	0.2
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	18	0.2
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	18	0.2
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	18	0.2
(2,327)	1:129:A:TRP:H	1:127:A:VAL:HG21	1	0.2
(2,327)	1:129:A:TRP:H	1:127:A:VAL:HG22	1	0.2
(2,327)	1:129:A:TRP:H	1:127:A:VAL:HG23	1	0.2
(2,326)	1:128:A:VAL:H	1:129:A:TRP:H	7	0.2
(2,326)	1:128:A:VAL:H	1:129:A:TRP:H	9	0.2
(2,324)	1:128:A:VAL:H	1:129:A:TRP:H	7	0.2
(2,324)	1:128:A:VAL:H	1:129:A:TRP:H	9	0.2
(2,316)	1:125:A:ARG:H	1:89:A:VAL:H	2	0.2
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	6	0.2
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG13	12	0.2
(2,303)	1:122:A:LEU:H	1:120:A:ILE:HG12	12	0.2
(2,162)	1:125:A:ARG:H	1:89:A:VAL:H	2	0.2
(2,157)	1:88:A:VAL:H	1:123:A:HIS:H	16	0.2
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	7	0.2
(2,103)	1:39:A:LEU:H	1:37:A:ALA:H	11	0.2
(2,62)	1:50:A:ILE:HG12	1:50:A:ILE:H	10	0.2
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	11	0.2
(2,8)	1:135:A:MET:H	1:92:A:ARG:H	10	0.2
(2,8)	1:135:A:MET:H	1:92:A:ARG:H	18	0.2
(1,13)	3:304:A:ZN:ZN	1:198:A:HIS:NE2	5	0.2
(1,11)	3:303:A:ZN:ZN	1:145:A:ASP:OD2	11	0.2
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	5	0.2
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	15	0.2
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	17	0.2
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	9	0.19
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	9	0.19
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	9	0.19
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	10	0.19
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	15	0.19
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	15	0.19
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	15	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,935)	1:73:A:ALA:H	1:73:A:ALA:HA	13	0.19
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	4	0.19
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	4	0.19
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	1	0.19
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	2	0.19
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	7	0.19
(2,916)	1:71:A:ASP:H	1:72:A:VAL:HA	13	0.19
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG21	6	0.19
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG22	6	0.19
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG23	6	0.19
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	15	0.19
(2,887)	1:134:A:ILE:HD11	1:134:A:ILE:HG21	3	0.19
(2,887)	1:134:A:ILE:HD11	1:134:A:ILE:HG22	3	0.19
(2,887)	1:134:A:ILE:HD11	1:134:A:ILE:HG23	3	0.19
(2,887)	1:134:A:ILE:HD12	1:134:A:ILE:HG21	3	0.19
(2,887)	1:134:A:ILE:HD12	1:134:A:ILE:HG22	3	0.19
(2,887)	1:134:A:ILE:HD12	1:134:A:ILE:HG23	3	0.19
(2,887)	1:134:A:ILE:HD13	1:134:A:ILE:HG21	3	0.19
(2,887)	1:134:A:ILE:HD13	1:134:A:ILE:HG22	3	0.19
(2,887)	1:134:A:ILE:HD13	1:134:A:ILE:HG23	3	0.19
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG11	10	0.19
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG12	10	0.19
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG13	10	0.19
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG11	10	0.19
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG12	10	0.19
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG13	10	0.19
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG11	10	0.19
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG12	10	0.19
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG13	10	0.19
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD11	14	0.19
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD12	14	0.19
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD13	14	0.19
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD11	14	0.19
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD12	14	0.19
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD13	14	0.19
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD11	14	0.19
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD12	14	0.19
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD13	14	0.19
(2,862)	1:186:A:ILE:HD13	1:156:A:LEU:HD22	14	0.19
(2,862)	1:186:A:ILE:HD13	1:156:A:LEU:HD23	14	0.19
(2,862)	1:186:A:ILE:HD11	1:156:A:LEU:HD11	14	0.19
(2,862)	1:186:A:ILE:HD11	1:156:A:LEU:HD12	14	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,862)	1:186:A:ILE:HD11	1:156:A:LEU:HD13	14	0.19
(2,862)	1:186:A:ILE:HD12	1:156:A:LEU:HD11	14	0.19
(2,862)	1:186:A:ILE:HD12	1:156:A:LEU:HD12	14	0.19
(2,862)	1:186:A:ILE:HD12	1:156:A:LEU:HD13	14	0.19
(2,862)	1:186:A:ILE:HD13	1:156:A:LEU:HD11	14	0.19
(2,862)	1:186:A:ILE:HD13	1:156:A:LEU:HD12	14	0.19
(2,862)	1:186:A:ILE:HD13	1:156:A:LEU:HD13	14	0.19
(2,859)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	6	0.19
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD11	3	0.19
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD12	3	0.19
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD13	3	0.19
(2,831)	1:120:A:ILE:HD11	1:120:A:ILE:HG21	17	0.19
(2,831)	1:120:A:ILE:HD11	1:120:A:ILE:HG22	17	0.19
(2,831)	1:120:A:ILE:HD11	1:120:A:ILE:HG23	17	0.19
(2,831)	1:120:A:ILE:HD12	1:120:A:ILE:HG21	17	0.19
(2,831)	1:120:A:ILE:HD12	1:120:A:ILE:HG22	17	0.19
(2,831)	1:120:A:ILE:HD12	1:120:A:ILE:HG23	17	0.19
(2,831)	1:120:A:ILE:HD13	1:120:A:ILE:HG21	17	0.19
(2,831)	1:120:A:ILE:HD13	1:120:A:ILE:HG22	17	0.19
(2,831)	1:120:A:ILE:HD13	1:120:A:ILE:HG23	17	0.19
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	11	0.19
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	11	0.19
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	11	0.19
(2,806)	1:93:A:ILE:HD11	1:93:A:ILE:HG21	16	0.19
(2,806)	1:93:A:ILE:HD11	1:93:A:ILE:HG22	16	0.19
(2,806)	1:93:A:ILE:HD11	1:93:A:ILE:HG23	16	0.19
(2,806)	1:93:A:ILE:HD12	1:93:A:ILE:HG21	16	0.19
(2,806)	1:93:A:ILE:HD12	1:93:A:ILE:HG22	16	0.19
(2,806)	1:93:A:ILE:HD12	1:93:A:ILE:HG23	16	0.19
(2,806)	1:93:A:ILE:HD13	1:93:A:ILE:HG21	16	0.19
(2,806)	1:93:A:ILE:HD13	1:93:A:ILE:HG22	16	0.19
(2,806)	1:93:A:ILE:HD13	1:93:A:ILE:HG23	16	0.19
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	4	0.19
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG11	10	0.19
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG12	10	0.19
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG13	10	0.19
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG11	10	0.19
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG12	10	0.19
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG13	10	0.19
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG11	10	0.19
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG12	10	0.19
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG13	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD22	12	0.19
(2,732)	1:211:A:VAL:HG13	1:226:A:LEU:HD23	12	0.19
(2,693)	1:11:A:GLN:H	1:8:A:SER:H	18	0.19
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	10	0.19
(2,655)	1:16:A:GLN:HE21	1:16:A:GLN:HE22	14	0.19
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	20	0.19
(2,624)	1:11:A:GLN:H	1:8:A:SER:H	18	0.19
(2,570)	1:226:A:LEU:H	1:226:A:LEU:HD21	12	0.19
(2,539)	1:206:A:SER:H	1:207:A:ASP:H	10	0.19
(2,539)	1:206:A:SER:H	1:207:A:ASP:H	10	0.19
(2,514)	1:200:A:LEU:H	1:202:A:MET:H	1	0.19
(2,456)	1:178:A:TRP:HE1	1:176:A:GLU:H	17	0.19
(2,445)	1:178:A:TRP:HE1	1:176:A:GLU:H	17	0.19
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	1	0.19
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	1	0.19
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	1	0.19
(2,391)	1:157:A:ALA:H	1:156:A:LEU:H	8	0.19
(2,391)	1:157:A:ALA:H	1:156:A:LEU:H	12	0.19
(2,385)	1:157:A:ALA:H	1:156:A:LEU:H	8	0.19
(2,385)	1:157:A:ALA:H	1:156:A:LEU:H	12	0.19
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	19	0.19
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD11	3	0.19
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD12	3	0.19
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD13	3	0.19
(2,274)	1:116:A:TRP:HE1	1:197:A:GLY:H	17	0.19
(2,257)	1:112:A:ALA:H	1:189:A:LEU:HD21	8	0.19
(2,239)	1:108:A:LEU:H	1:108:A:LEU:HD21	5	0.19
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	9	0.19
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	16	0.19
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	19	0.19
(2,103)	1:39:A:LEU:H	1:37:A:ALA:H	8	0.19
(2,101)	1:37:A:ALA:H	1:36:A:GLU:H	3	0.19
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	6	0.19
(2,36)	1:46:A:PHE:H	1:43:A:GLN:H	18	0.19
(2,8)	1:135:A:MET:H	1:92:A:ARG:H	14	0.19
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	18	0.18
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	18	0.18
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	19	0.18
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	12	0.18
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	9	0.18
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	15	0.18
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	18	0.18
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	18	0.18
(2,935)	1:73:A:ALA:H	1:73:A:ALA:HA	3	0.18
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	17	0.18
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	17	0.18
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	2	0.18
(2,919)	1:72:A:VAL:H	1:71:A:ASP:HA	16	0.18
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	9	0.18
(2,904)	1:67:A:CYS:H	1:67:A:CYS:HA	11	0.18
(2,903)	1:67:A:CYS:H	1:66:A:ARG:HA	15	0.18
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	10	0.18
(2,895)	1:64:A:LYS:H	1:64:A:LYS:HA	16	0.18
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	13	0.18
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	13	0.18
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	13	0.18
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	13	0.18
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	13	0.18
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	13	0.18
(2,801)	1:93:A:ILE:H	1:93:A:ILE:HD11	14	0.18
(2,801)	1:93:A:ILE:H	1:93:A:ILE:HD12	14	0.18
(2,801)	1:93:A:ILE:H	1:93:A:ILE:HD13	14	0.18
(2,793)	1:58:A:VAL:HG13	1:39:A:LEU:HD22	9	0.18
(2,793)	1:58:A:VAL:HG13	1:39:A:LEU:HD23	9	0.18
(2,793)	1:58:A:VAL:HG11	1:39:A:LEU:HD11	9	0.18
(2,793)	1:58:A:VAL:HG11	1:39:A:LEU:HD12	9	0.18
(2,793)	1:58:A:VAL:HG11	1:39:A:LEU:HD13	9	0.18
(2,793)	1:58:A:VAL:HG12	1:39:A:LEU:HD11	9	0.18
(2,793)	1:58:A:VAL:HG12	1:39:A:LEU:HD12	9	0.18
(2,793)	1:58:A:VAL:HG12	1:39:A:LEU:HD13	9	0.18
(2,793)	1:58:A:VAL:HG13	1:39:A:LEU:HD11	9	0.18
(2,793)	1:58:A:VAL:HG13	1:39:A:LEU:HD12	9	0.18
(2,793)	1:58:A:VAL:HG13	1:39:A:LEU:HD13	9	0.18
(2,775)	1:61:A:ILE:HD12	1:48:A:LEU:HD21	5	0.18
(2,767)	1:61:A:ILE:HD11	1:60:A:GLU:H	4	0.18
(2,767)	1:61:A:ILE:HD12	1:60:A:GLU:H	4	0.18
(2,767)	1:61:A:ILE:HD13	1:60:A:GLU:H	4	0.18
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG11	18	0.18
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG12	18	0.18
(2,756)	1:54:A:LEU:HD22	1:58:A:VAL:HG13	18	0.18
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG11	18	0.18
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG12	18	0.18
(2,756)	1:54:A:LEU:HD23	1:58:A:VAL:HG13	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG11	6	0.18
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG12	6	0.18
(2,755)	1:54:A:LEU:HD21	1:58:A:VAL:HG13	6	0.18
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	20	0.18
(2,716)	1:54:A:LEU:HD11	1:58:A:VAL:HG11	20	0.18
(2,716)	1:54:A:LEU:HD11	1:58:A:VAL:HG12	20	0.18
(2,716)	1:54:A:LEU:HD11	1:58:A:VAL:HG13	20	0.18
(2,716)	1:54:A:LEU:HD12	1:58:A:VAL:HG11	20	0.18
(2,716)	1:54:A:LEU:HD12	1:58:A:VAL:HG12	20	0.18
(2,716)	1:54:A:LEU:HD12	1:58:A:VAL:HG13	20	0.18
(2,716)	1:54:A:LEU:HD13	1:58:A:VAL:HG11	20	0.18
(2,716)	1:54:A:LEU:HD13	1:58:A:VAL:HG12	20	0.18
(2,716)	1:54:A:LEU:HD13	1:58:A:VAL:HG13	20	0.18
(2,699)	1:58:A:VAL:HG21	1:55:A:ASN:H	18	0.18
(2,699)	1:58:A:VAL:HG22	1:55:A:ASN:H	18	0.18
(2,699)	1:58:A:VAL:HG23	1:55:A:ASN:H	18	0.18
(2,683)	1:179:A:THR:HG21	1:185:A:GLY:H	7	0.18
(2,683)	1:179:A:THR:HG22	1:185:A:GLY:H	7	0.18
(2,683)	1:179:A:THR:HG23	1:185:A:GLY:H	7	0.18
(2,672)	1:66:A:ARG:H	1:156:A:LEU:HD22	20	0.18
(2,672)	1:66:A:ARG:H	1:156:A:LEU:HD23	20	0.18
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	6	0.18
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	6	0.18
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	6	0.18
(2,653)	1:11:A:GLN:HE22	1:11:A:GLN:HE21	15	0.18
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	12	0.18
(2,570)	1:226:A:LEU:H	1:226:A:LEU:HD21	9	0.18
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	4	0.18
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	4	0.18
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	12	0.18
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	12	0.18
(2,456)	1:178:A:TRP:HE1	1:176:A:GLU:H	19	0.18
(2,445)	1:178:A:TRP:HE1	1:176:A:GLU:H	19	0.18
(2,388)	1:66:A:ARG:H	1:156:A:LEU:H	20	0.18
(2,353)	1:136:A:ILE:H	1:136:A:ILE:HD11	14	0.18
(2,353)	1:136:A:ILE:H	1:136:A:ILE:HD12	14	0.18
(2,353)	1:136:A:ILE:H	1:136:A:ILE:HD13	14	0.18
(2,235)	1:104:A:THR:H	1:107:A:ARG:H	12	0.18
(2,120)	1:66:A:ARG:H	1:156:A:LEU:H	20	0.18
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	6	0.18
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	3	0.18
(2,70)	1:58:A:VAL:HG21	1:55:A:ASN:H	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:58:A:VAL:HG22	1:55:A:ASN:H	18	0.18
(2,70)	1:58:A:VAL:HG23	1:55:A:ASN:H	18	0.18
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD11	2	0.18
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD12	2	0.18
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD13	2	0.18
(2,17)	1:93:A:ILE:H	1:93:A:ILE:HD11	14	0.18
(2,17)	1:93:A:ILE:H	1:93:A:ILE:HD12	14	0.18
(2,17)	1:93:A:ILE:H	1:93:A:ILE:HD13	14	0.18
(2,14)	1:159:A:ALA:H	1:171:A:HIS:H	10	0.18
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG13	20	0.18
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG12	20	0.18
(2,8)	1:135:A:MET:H	1:92:A:ARG:H	7	0.18
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	4	0.18
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	10	0.18
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	6	0.18
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	13	0.18
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	20	0.18
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	8	0.17
(2,971)	1:77:A:LEU:HB3	1:78:A:PHE:H	9	0.17
(2,971)	1:77:A:LEU:HB3	1:78:A:PHE:H	9	0.17
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	7	0.17
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	1	0.17
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	1	0.17
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	10	0.17
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	10	0.17
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	16	0.17
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	16	0.17
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	6	0.17
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	6	0.17
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	13	0.17
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	13	0.17
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	10	0.17
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	8	0.17
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	20	0.17
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	3	0.17
(2,870)	1:186:A:ILE:HD12	1:156:A:LEU:HD22	6	0.17
(2,870)	1:186:A:ILE:HD12	1:156:A:LEU:HD23	6	0.17
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	13	0.17
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	13	0.17
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	13	0.17
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	13	0.17
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	13	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	13	0.17
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	10	0.17
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	10	0.17
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	10	0.17
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	10	0.17
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	10	0.17
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	10	0.17
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	10	0.17
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	10	0.17
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	10	0.17
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	10	0.17
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	10	0.17
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	10	0.17
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	17	0.17
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	17	0.17
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	17	0.17
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG21	7	0.17
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG22	7	0.17
(2,804)	1:93:A:ILE:HD11	1:105:A:VAL:HG23	7	0.17
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG21	7	0.17
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG22	7	0.17
(2,804)	1:93:A:ILE:HD12	1:105:A:VAL:HG23	7	0.17
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG21	7	0.17
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG22	7	0.17
(2,804)	1:93:A:ILE:HD13	1:105:A:VAL:HG23	7	0.17
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG13	9	0.17
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG13	9	0.17
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG13	9	0.17
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG12	9	0.17
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG12	9	0.17
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG12	9	0.17
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG13	20	0.17
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG13	20	0.17
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG13	20	0.17
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG12	20	0.17
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG12	20	0.17
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG12	20	0.17
(2,737)	1:196:A:LEU:HD23	1:113:A:LEU:HD21	20	0.17
(2,716)	1:54:A:LEU:HD11	1:58:A:VAL:HG11	2	0.17
(2,716)	1:54:A:LEU:HD11	1:58:A:VAL:HG12	2	0.17
(2,716)	1:54:A:LEU:HD11	1:58:A:VAL:HG13	2	0.17
(2,716)	1:54:A:LEU:HD12	1:58:A:VAL:HG11	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,716)	1:54:A:LEU:HD12	1:58:A:VAL:HG12	2	0.17
(2,716)	1:54:A:LEU:HD12	1:58:A:VAL:HG13	2	0.17
(2,716)	1:54:A:LEU:HD13	1:58:A:VAL:HG11	2	0.17
(2,716)	1:54:A:LEU:HD13	1:58:A:VAL:HG12	2	0.17
(2,716)	1:54:A:LEU:HD13	1:58:A:VAL:HG13	2	0.17
(2,680)	1:158:A:HIS:H	1:172:A:PHE:H	16	0.17
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	7	0.17
(2,500)	1:116:A:TRP:HE1	1:198:A:HIS:H	12	0.17
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	17	0.17
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	17	0.17
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	17	0.17
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	15	0.17
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	15	0.17
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	15	0.17
(2,391)	1:157:A:ALA:H	1:156:A:LEU:H	18	0.17
(2,388)	1:66:A:ARG:H	1:156:A:LEU:H	18	0.17
(2,385)	1:157:A:ALA:H	1:156:A:LEU:H	18	0.17
(2,380)	1:10:A:LEU:H	1:10:A:LEU:HD22	6	0.17
(2,380)	1:10:A:LEU:H	1:10:A:LEU:HD23	6	0.17
(2,379)	1:10:A:LEU:H	1:10:A:LEU:HD21	7	0.17
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	13	0.17
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	13	0.17
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	13	0.17
(2,317)	1:125:A:ARG:H	1:91:A:TYR:H	5	0.17
(2,314)	1:125:A:ARG:H	1:124:A:PHE:HA	8	0.17
(2,274)	1:116:A:TRP:HE1	1:197:A:GLY:H	8	0.17
(2,239)	1:108:A:LEU:H	1:108:A:LEU:HD21	18	0.17
(2,228)	1:106:A:ASP:H	1:108:A:LEU:H	10	0.17
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	2	0.17
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	18	0.17
(2,215)	1:103:A:ILE:H	1:103:A:ILE:HG13	9	0.17
(2,215)	1:103:A:ILE:H	1:103:A:ILE:HG12	9	0.17
(2,120)	1:66:A:ARG:H	1:156:A:LEU:H	18	0.17
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	4	0.17
(2,103)	1:39:A:LEU:H	1:37:A:ALA:H	16	0.17
(2,75)	1:55:A:ASN:H	1:59:A:ILE:H	15	0.17
(2,62)	1:50:A:ILE:HG12	1:50:A:ILE:H	4	0.17
(2,39)	1:43:A:GLN:HE21	1:43:A:GLN:HE22	13	0.17
(1,11)	3:303:A:ZN:ZN	1:145:A:ASP:OD2	14	0.17
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	7	0.17
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	12	0.17
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,980)	1:78:A:PHE:H	1:79:A:PRO:HD3	16	0.16
(2,964)	1:75:A:TYR:H	1:76:A:SER:H	10	0.16
(2,959)	1:75:A:TYR:H	1:76:A:SER:H	10	0.16
(2,949)	1:74:A:GLU:H	1:75:A:TYR:H	3	0.16
(2,938)	1:73:A:ALA:HA	1:74:A:GLU:H	5	0.16
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG21	15	0.16
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG22	15	0.16
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG23	15	0.16
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	3	0.16
(2,907)	1:68:A:GLY:H	1:69:A:VAL:H	8	0.16
(2,907)	1:68:A:GLY:H	1:69:A:VAL:H	15	0.16
(2,904)	1:67:A:CYS:H	1:67:A:CYS:HA	18	0.16
(2,904)	1:67:A:CYS:H	1:67:A:CYS:HA	20	0.16
(2,894)	1:64:A:LYS:H	1:64:A:LYS:HG3	10	0.16
(2,894)	1:64:A:LYS:H	1:64:A:LYS:HG3	10	0.16
(2,889)	1:63:A:GLN:HA	1:63:A:GLN:H	20	0.16
(2,887)	1:134:A:ILE:HD11	1:134:A:ILE:HG21	6	0.16
(2,887)	1:134:A:ILE:HD11	1:134:A:ILE:HG22	6	0.16
(2,887)	1:134:A:ILE:HD11	1:134:A:ILE:HG23	6	0.16
(2,887)	1:134:A:ILE:HD12	1:134:A:ILE:HG21	6	0.16
(2,887)	1:134:A:ILE:HD12	1:134:A:ILE:HG22	6	0.16
(2,887)	1:134:A:ILE:HD12	1:134:A:ILE:HG23	6	0.16
(2,887)	1:134:A:ILE:HD13	1:134:A:ILE:HG21	6	0.16
(2,887)	1:134:A:ILE:HD13	1:134:A:ILE:HG22	6	0.16
(2,887)	1:134:A:ILE:HD13	1:134:A:ILE:HG23	6	0.16
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG11	5	0.16
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG12	5	0.16
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG13	5	0.16
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG11	5	0.16
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG12	5	0.16
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG13	5	0.16
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG11	5	0.16
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG12	5	0.16
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG13	5	0.16
(2,870)	1:186:A:ILE:HD12	1:156:A:LEU:HD22	14	0.16
(2,870)	1:186:A:ILE:HD12	1:156:A:LEU:HD23	14	0.16
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	3	0.16
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	3	0.16
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	3	0.16
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	3	0.16
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	3	0.16
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	7	0.16
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	7	0.16
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	7	0.16
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	7	0.16
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	7	0.16
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	7	0.16
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD11	2	0.16
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD12	2	0.16
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD13	2	0.16
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	16	0.16
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	16	0.16
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	16	0.16
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	16	0.16
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	16	0.16
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	16	0.16
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	19	0.16
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	19	0.16
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	19	0.16
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	19	0.16
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	19	0.16
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	19	0.16
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	5	0.16
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	5	0.16
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	5	0.16
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	5	0.16
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	5	0.16
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	5	0.16
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	18	0.16
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	18	0.16
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	18	0.16
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	18	0.16
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	18	0.16
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	18	0.16
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	13	0.16
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	13	0.16
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	13	0.16
(2,801)	1:93:A:ILE:H	1:93:A:ILE:HD11	12	0.16
(2,801)	1:93:A:ILE:H	1:93:A:ILE:HD12	12	0.16
(2,801)	1:93:A:ILE:H	1:93:A:ILE:HD13	12	0.16
(2,797)	1:58:A:VAL:HG21	1:58:A:VAL:HG11	7	0.16
(2,797)	1:58:A:VAL:HG21	1:58:A:VAL:HG12	7	0.16
(2,797)	1:58:A:VAL:HG21	1:58:A:VAL:HG13	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,797)	1:58:A:VAL:HG22	1:58:A:VAL:HG11	7	0.16
(2,797)	1:58:A:VAL:HG22	1:58:A:VAL:HG12	7	0.16
(2,797)	1:58:A:VAL:HG22	1:58:A:VAL:HG13	7	0.16
(2,797)	1:58:A:VAL:HG23	1:58:A:VAL:HG11	7	0.16
(2,797)	1:58:A:VAL:HG23	1:58:A:VAL:HG12	7	0.16
(2,797)	1:58:A:VAL:HG23	1:58:A:VAL:HG13	7	0.16
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	13	0.16
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	19	0.16
(2,773)	1:61:A:ILE:HD11	1:48:A:LEU:HD21	20	0.16
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD22	1	0.16
(2,766)	1:22:A:PHE:H	1:19:A:LEU:HD23	1	0.16
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG11	5	0.16
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG12	5	0.16
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG13	5	0.16
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG11	5	0.16
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG12	5	0.16
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG13	5	0.16
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG11	5	0.16
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG12	5	0.16
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG13	5	0.16
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD11	14	0.16
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD12	14	0.16
(2,717)	1:54:A:LEU:HD11	1:39:A:LEU:HD13	14	0.16
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD11	14	0.16
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD12	14	0.16
(2,717)	1:54:A:LEU:HD12	1:39:A:LEU:HD13	14	0.16
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD11	14	0.16
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD12	14	0.16
(2,717)	1:54:A:LEU:HD13	1:39:A:LEU:HD13	14	0.16
(2,701)	1:58:A:VAL:HG21	1:58:A:VAL:H	6	0.16
(2,701)	1:58:A:VAL:HG22	1:58:A:VAL:H	6	0.16
(2,701)	1:58:A:VAL:HG23	1:58:A:VAL:H	6	0.16
(2,683)	1:179:A:THR:HG21	1:185:A:GLY:H	9	0.16
(2,683)	1:179:A:THR:HG22	1:185:A:GLY:H	9	0.16
(2,683)	1:179:A:THR:HG23	1:185:A:GLY:H	9	0.16
(2,680)	1:158:A:HIS:H	1:172:A:PHE:H	14	0.16
(2,626)	1:12:A:TRP:H	1:10:A:LEU:H	18	0.16
(2,558)	1:23:A:TYR:H	1:24:A:LEU:H	2	0.16
(2,558)	1:23:A:TYR:H	1:24:A:LEU:H	19	0.16
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	13	0.16
(2,533)	1:23:A:TYR:H	1:24:A:LEU:H	2	0.16
(2,533)	1:23:A:TYR:H	1:24:A:LEU:H	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	6	0.16
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	6	0.16
(2,501)	1:198:A:HIS:H	1:195:A:ALA:H	5	0.16
(2,466)	1:84:A:TRP:H	1:200:A:LEU:HD21	3	0.16
(2,453)	1:178:A:TRP:HE1	1:175:A:ASP:H	3	0.16
(2,442)	1:175:A:ASP:H	1:178:A:TRP:HE1	3	0.16
(2,397)	1:169:A:ASP:H	1:160:A:PHE:H	13	0.16
(2,326)	1:128:A:VAL:H	1:129:A:TRP:H	6	0.16
(2,326)	1:128:A:VAL:H	1:129:A:TRP:H	13	0.16
(2,324)	1:128:A:VAL:H	1:129:A:TRP:H	6	0.16
(2,324)	1:128:A:VAL:H	1:129:A:TRP:H	13	0.16
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD11	2	0.16
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD12	2	0.16
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD13	2	0.16
(2,258)	1:112:A:ALA:H	1:189:A:LEU:HD22	2	0.16
(2,258)	1:112:A:ALA:H	1:189:A:LEU:HD23	2	0.16
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	5	0.16
(2,103)	1:39:A:LEU:H	1:37:A:ALA:H	5	0.16
(2,81)	1:58:A:VAL:HG21	1:58:A:VAL:H	6	0.16
(2,81)	1:58:A:VAL:HG22	1:58:A:VAL:H	6	0.16
(2,81)	1:58:A:VAL:HG23	1:58:A:VAL:H	6	0.16
(2,67)	1:53:A:MET:H	1:52:A:GLY:H	7	0.16
(2,64)	1:52:A:GLY:H	1:53:A:MET:H	7	0.16
(2,17)	1:93:A:ILE:H	1:93:A:ILE:HD11	12	0.16
(2,17)	1:93:A:ILE:H	1:93:A:ILE:HD12	12	0.16
(2,17)	1:93:A:ILE:H	1:93:A:ILE:HD13	12	0.16
(2,13)	1:135:A:MET:H	1:170:A:ALA:H	1	0.16
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	14	0.16
(3,28)	1:129:A:TRP:H	4:363:A:PX4:C35	5	0.15
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	5	0.15
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	10	0.15
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	17	0.15
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	17	0.15
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	17	0.15
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	19	0.15
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	18	0.15
(2,953)	1:74:A:GLU:HB3	1:76:A:SER:H	2	0.15
(2,953)	1:74:A:GLU:HB3	1:76:A:SER:H	2	0.15
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	13	0.15
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	13	0.15
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	19	0.15
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,935)	1:73:A:ALA:H	1:73:A:ALA:HA	6	0.15
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	14	0.15
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	14	0.15
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	19	0.15
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	19	0.15
(2,916)	1:71:A:ASP:H	1:72:A:VAL:HA	3	0.15
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	17	0.15
(2,892)	1:64:A:LYS:H	1:63:A:GLN:HA	17	0.15
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	12	0.15
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	12	0.15
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	12	0.15
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	12	0.15
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	12	0.15
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	12	0.15
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	16	0.15
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	16	0.15
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	16	0.15
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	16	0.15
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	16	0.15
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	16	0.15
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD22	9	0.15
(2,833)	1:120:A:ILE:HD11	1:200:A:LEU:HD23	9	0.15
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	7	0.15
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	7	0.15
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	7	0.15
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	7	0.15
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	7	0.15
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	7	0.15
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	11	0.15
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	11	0.15
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	11	0.15
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	11	0.15
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	11	0.15
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	11	0.15
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	12	0.15
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	12	0.15
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	12	0.15
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	12	0.15
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	12	0.15
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	12	0.15
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	5	0.15
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	5	0.15
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG11	14	0.15
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG12	14	0.15
(2,810)	1:93:A:ILE:H	1:94:A:VAL:HG13	14	0.15
(2,786)	1:24:A:LEU:H	1:24:A:LEU:HD21	17	0.15
(2,764)	1:120:A:ILE:HD11	1:122:A:LEU:H	2	0.15
(2,764)	1:120:A:ILE:HD12	1:122:A:LEU:H	2	0.15
(2,764)	1:120:A:ILE:HD13	1:122:A:LEU:H	2	0.15
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	4	0.15
(2,729)	1:211:A:VAL:HG12	1:226:A:LEU:HD21	11	0.15
(2,683)	1:179:A:THR:HG21	1:185:A:GLY:H	4	0.15
(2,683)	1:179:A:THR:HG22	1:185:A:GLY:H	4	0.15
(2,683)	1:179:A:THR:HG23	1:185:A:GLY:H	4	0.15
(2,683)	1:179:A:THR:HG21	1:185:A:GLY:H	10	0.15
(2,683)	1:179:A:THR:HG22	1:185:A:GLY:H	10	0.15
(2,683)	1:179:A:THR:HG23	1:185:A:GLY:H	10	0.15
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	17	0.15
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	19	0.15
(2,623)	1:6:A:GLY:H	1:7:A:MET:H	4	0.15
(2,564)	1:231:A:ILE:H	1:231:A:ILE:HG13	15	0.15
(2,564)	1:231:A:ILE:H	1:231:A:ILE:HG12	15	0.15
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	9	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG11	13	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG12	13	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG13	13	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG21	13	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG22	13	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG23	13	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG11	16	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG12	16	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG13	16	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG21	16	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG22	16	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG23	16	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG11	19	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG12	19	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG13	19	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG21	19	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG22	19	0.15
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG23	19	0.15
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	2	0.15
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,501)	1:198:A:HIS:H	1:195:A:ALA:H	18	0.15
(2,474)	1:186:A:ILE:H	1:186:A:ILE:HG13	15	0.15
(2,474)	1:186:A:ILE:H	1:186:A:ILE:HG12	15	0.15
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	4	0.15
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	4	0.15
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	4	0.15
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	11	0.15
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	11	0.15
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	11	0.15
(2,357)	1:136:A:ILE:HD11	1:137:A:GLY:H	20	0.15
(2,357)	1:136:A:ILE:HD12	1:137:A:GLY:H	20	0.15
(2,357)	1:136:A:ILE:HD13	1:137:A:GLY:H	20	0.15
(2,353)	1:136:A:ILE:H	1:136:A:ILE:HD11	8	0.15
(2,353)	1:136:A:ILE:H	1:136:A:ILE:HD12	8	0.15
(2,353)	1:136:A:ILE:H	1:136:A:ILE:HD13	8	0.15
(2,326)	1:128:A:VAL:H	1:129:A:TRP:H	14	0.15
(2,324)	1:128:A:VAL:H	1:129:A:TRP:H	14	0.15
(2,317)	1:125:A:ARG:H	1:91:A:TYR:H	8	0.15
(2,301)	1:120:A:ILE:HD11	1:122:A:LEU:H	2	0.15
(2,301)	1:120:A:ILE:HD12	1:122:A:LEU:H	2	0.15
(2,301)	1:120:A:ILE:HD13	1:122:A:LEU:H	2	0.15
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	4	0.15
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	12	0.15
(2,62)	1:50:A:ILE:HG12	1:50:A:ILE:H	16	0.15
(2,62)	1:50:A:ILE:HG12	1:50:A:ILE:H	20	0.15
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	8	0.14
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD1	15	0.14
(2,976)	1:78:A:PHE:H	1:78:A:PHE:HD2	15	0.14
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	19	0.14
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	19	0.14
(2,974)	1:78:A:PHE:H	1:77:A:LEU:HD21	2	0.14
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	6	0.14
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	2	0.14
(2,935)	1:73:A:ALA:H	1:73:A:ALA:HA	1	0.14
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG21	9	0.14
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG22	9	0.14
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG23	9	0.14
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG11	9	0.14
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG12	9	0.14
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG13	9	0.14
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	6	0.14
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,904)	1:67:A:CYS:H	1:67:A:CYS:HA	12	0.14
(2,868)	1:186:A:ILE:HD11	1:156:A:LEU:HD22	4	0.14
(2,868)	1:186:A:ILE:HD11	1:156:A:LEU:HD23	4	0.14
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	10	0.14
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	10	0.14
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	10	0.14
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	10	0.14
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	10	0.14
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	10	0.14
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	20	0.14
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	20	0.14
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	20	0.14
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	20	0.14
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	20	0.14
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	20	0.14
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD11	15	0.14
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD12	15	0.14
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD13	15	0.14
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	9	0.14
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	9	0.14
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	9	0.14
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	9	0.14
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	9	0.14
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	9	0.14
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	1	0.14
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	1	0.14
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	1	0.14
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	2	0.14
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	2	0.14
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	2	0.14
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG13	13	0.14
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG13	13	0.14
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG13	13	0.14
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG12	13	0.14
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG12	13	0.14
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG12	13	0.14
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG13	15	0.14
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG13	15	0.14
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG13	15	0.14
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG12	15	0.14
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG12	15	0.14
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG12	15	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,731)	1:211:A:VAL:HG13	1:226:A:LEU:HD21	14	0.14
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	6	0.14
(2,670)	1:66:A:ARG:H	1:156:A:LEU:HD11	9	0.14
(2,670)	1:66:A:ARG:H	1:156:A:LEU:HD12	9	0.14
(2,670)	1:66:A:ARG:H	1:156:A:LEU:HD13	9	0.14
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	9	0.14
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	9	0.14
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	9	0.14
(2,570)	1:226:A:LEU:H	1:226:A:LEU:HD21	13	0.14
(2,558)	1:23:A:TYR:H	1:24:A:LEU:H	8	0.14
(2,543)	1:210:A:ALA:H	1:213:A:TYR:H	4	0.14
(2,533)	1:23:A:TYR:H	1:24:A:LEU:H	8	0.14
(2,511)	1:200:A:LEU:HD22	1:199:A:SER:H	9	0.14
(2,511)	1:200:A:LEU:HD23	1:199:A:SER:H	9	0.14
(2,478)	1:179:A:THR:H	1:188:A:PHE:H	7	0.14
(2,457)	1:179:A:THR:H	1:188:A:PHE:H	7	0.14
(2,404)	1:161:A:ALA:H	1:161:A:ALA:HB1	8	0.14
(2,404)	1:161:A:ALA:H	1:161:A:ALA:HB2	8	0.14
(2,404)	1:161:A:ALA:H	1:161:A:ALA:HB3	8	0.14
(2,391)	1:157:A:ALA:H	1:156:A:LEU:H	16	0.14
(2,385)	1:157:A:ALA:H	1:156:A:LEU:H	16	0.14
(2,381)	1:151:A:GLY:H	1:150:A:ASP:H	10	0.14
(2,368)	1:151:A:GLY:H	1:150:A:ASP:H	10	0.14
(2,326)	1:128:A:VAL:H	1:129:A:TRP:H	1	0.14
(2,324)	1:128:A:VAL:H	1:129:A:TRP:H	1	0.14
(2,321)	1:128:A:VAL:HG11	1:126:A:LYS:H	20	0.14
(2,321)	1:128:A:VAL:HG12	1:126:A:LYS:H	20	0.14
(2,321)	1:128:A:VAL:HG13	1:126:A:LYS:H	20	0.14
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD11	15	0.14
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD12	15	0.14
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD13	15	0.14
(2,264)	1:113:A:LEU:H	1:196:A:LEU:HD21	15	0.14
(2,239)	1:108:A:LEU:H	1:108:A:LEU:HD21	4	0.14
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	6	0.14
(2,226)	1:104:A:THR:H	1:106:A:ASP:H	15	0.14
(2,89)	1:59:A:ILE:H	1:59:A:ILE:HG13	18	0.14
(2,89)	1:59:A:ILE:H	1:59:A:ILE:HG12	18	0.14
(2,74)	1:55:A:ASN:H	1:55:A:ASN:HD21	14	0.14
(2,63)	1:52:A:GLY:H	1:51:A:THR:H	4	0.14
(2,63)	1:52:A:GLY:H	1:51:A:THR:H	12	0.14
(2,14)	1:159:A:ALA:H	1:171:A:HIS:H	15	0.14
(2,13)	1:135:A:MET:H	1:170:A:ALA:H	14	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,8)	1:135:A:MET:H	1:92:A:ARG:H	8	0.14
(3,30)	1:145:A:ASP:H	4:335:A:PX4:C35	6	0.13
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	20	0.13
(2,952)	1:74:A:GLU:HA	1:76:A:SER:H	9	0.13
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	11	0.13
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	11	0.13
(2,935)	1:73:A:ALA:H	1:73:A:ALA:HA	4	0.13
(2,935)	1:73:A:ALA:H	1:73:A:ALA:HA	5	0.13
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	1	0.13
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	1	0.13
(2,916)	1:71:A:ASP:H	1:72:A:VAL:HA	6	0.13
(2,916)	1:71:A:ASP:H	1:72:A:VAL:HA	10	0.13
(2,916)	1:71:A:ASP:H	1:72:A:VAL:HA	14	0.13
(2,912)	1:70:A:PRO:HB3	1:76:A:SER:H	14	0.13
(2,912)	1:70:A:PRO:HB2	1:76:A:SER:H	14	0.13
(2,907)	1:68:A:GLY:H	1:69:A:VAL:H	19	0.13
(2,889)	1:63:A:GLN:HA	1:63:A:GLN:H	17	0.13
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG11	8	0.13
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG12	8	0.13
(2,885)	1:134:A:ILE:HD11	1:89:A:VAL:HG13	8	0.13
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG11	8	0.13
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG12	8	0.13
(2,885)	1:134:A:ILE:HD12	1:89:A:VAL:HG13	8	0.13
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG11	8	0.13
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG12	8	0.13
(2,885)	1:134:A:ILE:HD13	1:89:A:VAL:HG13	8	0.13
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD11	7	0.13
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD12	7	0.13
(2,866)	1:186:A:ILE:HD11	1:156:A:LEU:HD13	7	0.13
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD11	7	0.13
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD12	7	0.13
(2,866)	1:186:A:ILE:HD12	1:156:A:LEU:HD13	7	0.13
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD11	7	0.13
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD12	7	0.13
(2,866)	1:186:A:ILE:HD13	1:156:A:LEU:HD13	7	0.13
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	6	0.13
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	6	0.13
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	6	0.13
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	6	0.13
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	6	0.13
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	6	0.13
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	11	0.13
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	11	0.13
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	11	0.13
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	11	0.13
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	11	0.13
(2,843)	1:200:A:LEU:HD21	1:122:A:LEU:HD22	18	0.13
(2,843)	1:200:A:LEU:HD21	1:122:A:LEU:HD23	18	0.13
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD11	17	0.13
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD12	17	0.13
(2,839)	1:123:A:HIS:H	1:122:A:LEU:HD13	17	0.13
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	1	0.13
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	1	0.13
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	1	0.13
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	1	0.13
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	1	0.13
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	1	0.13
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	2	0.13
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	2	0.13
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	2	0.13
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	2	0.13
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	2	0.13
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	2	0.13
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	17	0.13
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	17	0.13
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	17	0.13
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	17	0.13
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	17	0.13
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	17	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	3	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	3	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	3	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	3	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	3	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	3	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	6	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	6	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	6	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	6	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	6	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	6	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	8	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	8	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	8	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	8	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	8	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	14	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	14	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	14	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	14	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	14	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	14	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	15	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	15	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	15	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	15	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	15	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	15	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	17	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	17	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	17	0.13
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	17	0.13
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	17	0.13
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	17	0.13
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG11	12	0.13
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG12	12	0.13
(2,809)	1:136:A:ILE:H	1:94:A:VAL:HG13	12	0.13
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG13	5	0.13
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG13	5	0.13
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG13	5	0.13
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG12	5	0.13
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG12	5	0.13
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG12	5	0.13
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG13	8	0.13
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG13	8	0.13
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG13	8	0.13
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG12	8	0.13
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG12	8	0.13
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG12	8	0.13
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG13	10	0.13
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG13	10	0.13
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG13	10	0.13
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG12	10	0.13
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG12	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG12	10	0.13
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG11	8	0.13
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG12	8	0.13
(2,744)	1:134:A:ILE:HD11	1:89:A:VAL:HG13	8	0.13
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG11	8	0.13
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG12	8	0.13
(2,744)	1:134:A:ILE:HD12	1:89:A:VAL:HG13	8	0.13
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG11	8	0.13
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG12	8	0.13
(2,744)	1:134:A:ILE:HD13	1:89:A:VAL:HG13	8	0.13
(2,692)	1:180:A:ASP:H	1:181:A:GLY:H	13	0.13
(2,680)	1:158:A:HIS:H	1:172:A:PHE:H	4	0.13
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	7	0.13
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	7	0.13
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	7	0.13
(2,632)	1:25:A:TYR:H	1:24:A:LEU:HD21	5	0.13
(2,623)	1:6:A:GLY:H	1:7:A:MET:H	14	0.13
(2,618)	1:13:A:GLU:H	1:12:A:TRP:H	20	0.13
(2,557)	1:21:A:ARG:H	1:23:A:TYR:H	5	0.13
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG11	8	0.13
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG12	8	0.13
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG13	8	0.13
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG21	8	0.13
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG22	8	0.13
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG23	8	0.13
(2,539)	1:206:A:SER:H	1:207:A:ASP:H	8	0.13
(2,539)	1:206:A:SER:H	1:207:A:ASP:H	8	0.13
(2,504)	1:198:A:HIS:H	1:202:A:MET:H	8	0.13
(2,501)	1:198:A:HIS:H	1:195:A:ALA:H	10	0.13
(2,499)	1:197:A:GLY:H	1:198:A:HIS:H	15	0.13
(2,499)	1:197:A:GLY:H	1:198:A:HIS:H	15	0.13
(2,469)	1:177:A:ARG:H	1:186:A:ILE:H	12	0.13
(2,453)	1:178:A:TRP:HE1	1:175:A:ASP:H	19	0.13
(2,442)	1:175:A:ASP:H	1:178:A:TRP:HE1	19	0.13
(2,414)	1:167:A:GLY:H	1:166:A:LEU:HD21	7	0.13
(2,369)	1:143:A:HIS:H	1:145:A:ASP:H	6	0.13
(2,315)	1:125:A:ARG:H	1:126:A:LYS:H	14	0.13
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD11	17	0.13
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD12	17	0.13
(2,304)	1:123:A:HIS:H	1:122:A:LEU:HD13	17	0.13
(2,239)	1:108:A:LEU:H	1:108:A:LEU:HD21	1	0.13
(2,215)	1:103:A:ILE:H	1:103:A:ILE:HG13	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,215)	1:103:A:ILE:H	1:103:A:ILE:HG12	20	0.13
(2,185)	1:94:A:VAL:H	1:92:A:ARG:H	18	0.13
(2,179)	1:92:A:ARG:H	1:134:A:ILE:HD11	15	0.13
(2,179)	1:92:A:ARG:H	1:134:A:ILE:HD12	15	0.13
(2,179)	1:92:A:ARG:H	1:134:A:ILE:HD13	15	0.13
(2,122)	1:177:A:ARG:H	1:186:A:ILE:H	12	0.13
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	16	0.13
(2,62)	1:50:A:ILE:HG12	1:50:A:ILE:H	3	0.13
(2,62)	1:50:A:ILE:HG12	1:50:A:ILE:H	5	0.13
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD11	1	0.13
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD12	1	0.13
(2,60)	1:50:A:ILE:H	1:50:A:ILE:HD13	1	0.13
(2,14)	1:159:A:ALA:H	1:171:A:HIS:H	17	0.13
(2,13)	1:135:A:MET:H	1:170:A:ALA:H	19	0.13
(2,4)	1:13:A:GLU:H	1:12:A:TRP:H	20	0.13
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	11	0.12
(2,969)	1:77:A:LEU:H	1:78:A:PHE:H	15	0.12
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	3	0.12
(2,968)	1:77:A:LEU:H	1:77:A:LEU:HA	13	0.12
(2,949)	1:74:A:GLU:H	1:75:A:TYR:H	6	0.12
(2,949)	1:74:A:GLU:H	1:75:A:TYR:H	9	0.12
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	7	0.12
(2,947)	1:74:A:GLU:HB3	1:75:A:TYR:H	7	0.12
(2,935)	1:73:A:ALA:H	1:73:A:ALA:HA	10	0.12
(2,935)	1:73:A:ALA:H	1:73:A:ALA:HA	19	0.12
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	14	0.12
(2,916)	1:71:A:ASP:H	1:72:A:VAL:HA	16	0.12
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG21	3	0.12
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG22	3	0.12
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG23	3	0.12
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	7	0.12
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	11	0.12
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	18	0.12
(2,906)	1:68:A:GLY:H	1:68:A:GLY:HA3	10	0.12
(2,906)	1:68:A:GLY:H	1:68:A:GLY:HA3	10	0.12
(2,904)	1:67:A:CYS:H	1:67:A:CYS:HA	16	0.12
(2,901)	1:66:A:ARG:H	1:66:A:ARG:HB3	6	0.12
(2,901)	1:66:A:ARG:H	1:66:A:ARG:HB3	6	0.12
(2,869)	1:186:A:ILE:HD12	1:156:A:LEU:HD21	9	0.12
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	2	0.12
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	2	0.12
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	2	0.12
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	2	0.12
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	2	0.12
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	5	0.12
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	5	0.12
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	5	0.12
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	5	0.12
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	5	0.12
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	5	0.12
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	12	0.12
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	12	0.12
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	12	0.12
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	12	0.12
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	12	0.12
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	12	0.12
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	4	0.12
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	4	0.12
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	4	0.12
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	4	0.12
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	4	0.12
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	4	0.12
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG13	1	0.12
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG13	1	0.12
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG13	1	0.12
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG12	1	0.12
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG12	1	0.12
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG12	1	0.12
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG13	11	0.12
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG13	11	0.12
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG13	11	0.12
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG12	11	0.12
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG12	11	0.12
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG12	11	0.12
(2,677)	1:125:A:ARG:H	1:90:A:THR:H	14	0.12
(2,673)	1:77:A:LEU:H	1:78:A:PHE:H	15	0.12
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD11	11	0.12
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD12	11	0.12
(2,659)	1:42:A:MET:H	1:19:A:LEU:HD13	11	0.12
(2,609)	1:238:A:TYR:H	1:239:A:GLY:H	13	0.12
(2,603)	1:238:A:TYR:H	1:239:A:GLY:H	13	0.12
(2,570)	1:226:A:LEU:H	1:226:A:LEU:HD21	15	0.12
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG11	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG12	9	0.12
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG13	9	0.12
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG21	9	0.12
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG22	9	0.12
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG23	9	0.12
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG11	14	0.12
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG12	14	0.12
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG13	14	0.12
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG21	14	0.12
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG22	14	0.12
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG23	14	0.12
(2,538)	1:205:A:SER:H	1:213:A:TYR:H	10	0.12
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD22	12	0.12
(2,518)	1:200:A:LEU:H	1:196:A:LEU:HD23	12	0.12
(2,489)	1:116:A:TRP:HE1	1:196:A:LEU:H	14	0.12
(2,462)	1:182:A:SER:H	1:181:A:GLY:H	3	0.12
(2,462)	1:182:A:SER:H	1:181:A:GLY:H	3	0.12
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	6	0.12
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	6	0.12
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	6	0.12
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	9	0.12
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	9	0.12
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	9	0.12
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	6	0.12
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	6	0.12
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	6	0.12
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	10	0.12
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	10	0.12
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	10	0.12
(2,391)	1:157:A:ALA:H	1:156:A:LEU:H	7	0.12
(2,385)	1:157:A:ALA:H	1:156:A:LEU:H	7	0.12
(2,326)	1:128:A:VAL:H	1:129:A:TRP:H	19	0.12
(2,324)	1:128:A:VAL:H	1:129:A:TRP:H	19	0.12
(2,305)	1:123:A:HIS:H	1:122:A:LEU:HD21	13	0.12
(2,275)	1:116:A:TRP:HE1	1:196:A:LEU:H	14	0.12
(2,235)	1:104:A:THR:H	1:107:A:ARG:H	13	0.12
(2,215)	1:103:A:ILE:H	1:103:A:ILE:HG13	18	0.12
(2,215)	1:103:A:ILE:H	1:103:A:ILE:HG12	18	0.12
(2,203)	1:99:A:ASP:H	1:98:A:ARG:H	9	0.12
(2,200)	1:99:A:ASP:H	1:98:A:ARG:H	9	0.12
(2,179)	1:92:A:ARG:H	1:134:A:ILE:HD11	6	0.12
(2,179)	1:92:A:ARG:H	1:134:A:ILE:HD12	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,179)	1:92:A:ARG:H	1:134:A:ILE:HD13	6	0.12
(2,155)	1:88:A:VAL:H	1:87:A:LYS:H	7	0.12
(2,155)	1:88:A:VAL:H	1:87:A:LYS:H	7	0.12
(2,113)	1:25:A:TYR:H	1:26:A:ASP:H	18	0.12
(2,67)	1:53:A:MET:H	1:52:A:GLY:H	10	0.12
(2,64)	1:52:A:GLY:H	1:53:A:MET:H	10	0.12
(2,63)	1:52:A:GLY:H	1:51:A:THR:H	17	0.12
(2,36)	1:46:A:PHE:H	1:43:A:GLN:H	20	0.12
(2,13)	1:135:A:MET:H	1:170:A:ALA:H	4	0.12
(2,8)	1:135:A:MET:H	1:92:A:ARG:H	15	0.12
(1,10)	3:303:A:ZN:ZN	1:158:A:HIS:NE2	18	0.12
(3,36)	1:129:A:TRP:HE1	4:313:A:PX4:N1	18	0.11
(2,977)	1:78:A:PHE:H	1:78:A:PHE:HA	4	0.11
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD22	11	0.11
(2,975)	1:78:A:PHE:H	1:77:A:LEU:HD23	11	0.11
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD11	18	0.11
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD12	18	0.11
(2,973)	1:78:A:PHE:H	1:77:A:LEU:HD13	18	0.11
(2,963)	1:75:A:TYR:HB3	1:76:A:SER:H	12	0.11
(2,963)	1:75:A:TYR:HB3	1:76:A:SER:H	12	0.11
(2,951)	1:74:A:GLU:H	1:76:A:SER:H	8	0.11
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	8	0.11
(2,945)	1:74:A:GLU:H	1:74:A:GLU:HG3	8	0.11
(2,938)	1:73:A:ALA:HA	1:74:A:GLU:H	3	0.11
(2,938)	1:73:A:ALA:HA	1:74:A:GLU:H	7	0.11
(2,935)	1:73:A:ALA:H	1:73:A:ALA:HA	7	0.11
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	14	0.11
(2,931)	1:72:A:VAL:H	1:75:A:TYR:HB3	14	0.11
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	8	0.11
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG21	17	0.11
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG22	17	0.11
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG23	17	0.11
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG11	17	0.11
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG12	17	0.11
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG13	17	0.11
(2,921)	1:72:A:VAL:H	1:72:A:VAL:HA	6	0.11
(2,920)	1:72:A:VAL:H	1:71:A:ASP:H	13	0.11
(2,920)	1:72:A:VAL:H	1:71:A:ASP:H	13	0.11
(2,920)	1:72:A:VAL:H	1:71:A:ASP:H	18	0.11
(2,920)	1:72:A:VAL:H	1:71:A:ASP:H	18	0.11
(2,916)	1:71:A:ASP:H	1:72:A:VAL:HA	7	0.11
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG21	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG22	20	0.11
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG23	20	0.11
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	8	0.11
(2,909)	1:69:A:VAL:H	1:69:A:VAL:HA	13	0.11
(2,904)	1:67:A:CYS:H	1:67:A:CYS:HA	9	0.11
(2,894)	1:64:A:LYS:H	1:64:A:LYS:HG3	16	0.11
(2,894)	1:64:A:LYS:H	1:64:A:LYS:HG3	16	0.11
(2,871)	1:186:A:ILE:HD13	1:156:A:LEU:HD21	14	0.11
(2,867)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	18	0.11
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	14	0.11
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	14	0.11
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	14	0.11
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	14	0.11
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	14	0.11
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	14	0.11
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	15	0.11
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	15	0.11
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	15	0.11
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	15	0.11
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	15	0.11
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	15	0.11
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	17	0.11
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	17	0.11
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	17	0.11
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	17	0.11
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	17	0.11
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	17	0.11
(2,857)	1:186:A:ILE:HD11	1:156:A:LEU:HD21	19	0.11
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	6	0.11
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	6	0.11
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	6	0.11
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	6	0.11
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	6	0.11
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	6	0.11
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	2	0.11
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	2	0.11
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	2	0.11
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	2	0.11
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	2	0.11
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	2	0.11
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	20	0.11
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	20	0.11
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	20	0.11
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	20	0.11
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	20	0.11
(2,767)	1:61:A:ILE:HD11	1:60:A:GLU:H	19	0.11
(2,767)	1:61:A:ILE:HD12	1:60:A:GLU:H	19	0.11
(2,767)	1:61:A:ILE:HD13	1:60:A:GLU:H	19	0.11
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD11	14	0.11
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD12	14	0.11
(2,759)	1:54:A:LEU:HD21	1:59:A:ILE:HD13	14	0.11
(2,748)	1:89:A:VAL:HG12	1:122:A:LEU:HD21	13	0.11
(2,748)	1:89:A:VAL:HG12	1:122:A:LEU:HD21	15	0.11
(2,621)	1:200:A:LEU:HD21	1:201:A:GLY:H	1	0.11
(2,602)	1:237:A:LEU:H	1:239:A:GLY:H	20	0.11
(2,587)	1:232:A:LYS:H	1:231:A:ILE:HD11	12	0.11
(2,587)	1:232:A:LYS:H	1:231:A:ILE:HD12	12	0.11
(2,587)	1:232:A:LYS:H	1:231:A:ILE:HD13	12	0.11
(2,584)	1:230:A:ASP:H	1:231:A:ILE:HD11	13	0.11
(2,584)	1:230:A:ASP:H	1:231:A:ILE:HD12	13	0.11
(2,584)	1:230:A:ASP:H	1:231:A:ILE:HD13	13	0.11
(2,568)	1:235:A:GLN:H	1:233:A:GLY:H	18	0.11
(2,517)	1:200:A:LEU:H	1:196:A:LEU:HD21	14	0.11
(2,454)	1:178:A:TRP:HE1	1:178:A:TRP:H	16	0.11
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	3	0.11
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	3	0.11
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	3	0.11
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD11	16	0.11
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD12	16	0.11
(2,426)	1:170:A:ALA:H	1:136:A:ILE:HD13	16	0.11
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD11	13	0.11
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD12	13	0.11
(2,423)	1:169:A:ASP:H	1:134:A:ILE:HD13	13	0.11
(2,404)	1:161:A:ALA:H	1:161:A:ALA:HB1	7	0.11
(2,404)	1:161:A:ALA:H	1:161:A:ALA:HB2	7	0.11
(2,404)	1:161:A:ALA:H	1:161:A:ALA:HB3	7	0.11
(2,326)	1:128:A:VAL:H	1:129:A:TRP:H	10	0.11
(2,324)	1:128:A:VAL:H	1:129:A:TRP:H	10	0.11
(2,239)	1:108:A:LEU:H	1:108:A:LEU:HD21	9	0.11
(2,188)	1:94:A:VAL:H	1:95:A:SER:H	19	0.11
(2,183)	1:94:A:VAL:H	1:95:A:SER:H	19	0.11
(2,157)	1:88:A:VAL:H	1:123:A:HIS:H	15	0.11
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG11	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG12	13	0.11
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG13	13	0.11
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG21	13	0.11
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG22	13	0.11
(2,137)	1:73:A:ALA:H	1:72:A:VAL:HG23	13	0.11
(2,63)	1:52:A:GLY:H	1:51:A:THR:H	1	0.11
(2,63)	1:52:A:GLY:H	1:51:A:THR:H	19	0.11
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG13	9	0.11
(2,10)	1:92:A:ARG:H	1:93:A:ILE:HG12	9	0.11
(2,979)	1:78:A:PHE:H	1:78:A:PHE:HD1	4	0.1
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	5	0.1
(2,927)	1:72:A:VAL:H	1:73:A:ALA:H	5	0.1
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	15	0.1
(2,926)	1:72:A:VAL:HB	1:73:A:ALA:H	16	0.1
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG21	16	0.1
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG22	16	0.1
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG23	16	0.1
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG11	16	0.1
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG12	16	0.1
(2,922)	1:72:A:VAL:H	1:72:A:VAL:HG13	16	0.1
(2,918)	1:72:A:VAL:H	1:70:A:PRO:HB3	16	0.1
(2,918)	1:72:A:VAL:H	1:70:A:PRO:HB2	16	0.1
(2,918)	1:72:A:VAL:H	1:70:A:PRO:HB3	16	0.1
(2,918)	1:72:A:VAL:H	1:70:A:PRO:HB2	16	0.1
(2,917)	1:71:A:ASP:H	1:72:A:VAL:HB	15	0.1
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG21	5	0.1
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG22	5	0.1
(2,915)	1:71:A:ASP:H	1:72:A:VAL:HG23	5	0.1
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	4	0.1
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	4	0.1
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	4	0.1
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	4	0.1
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	4	0.1
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	4	0.1
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	9	0.1
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	9	0.1
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	9	0.1
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	9	0.1
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	9	0.1
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	9	0.1
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG13	18	0.1
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG13	18	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG13	18	0.1
(2,865)	1:186:A:ILE:HD11	1:186:A:ILE:HG12	18	0.1
(2,865)	1:186:A:ILE:HD12	1:186:A:ILE:HG12	18	0.1
(2,865)	1:186:A:ILE:HD13	1:186:A:ILE:HG12	18	0.1
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	3	0.1
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	3	0.1
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	3	0.1
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	3	0.1
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	3	0.1
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	3	0.1
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	4	0.1
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	4	0.1
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	4	0.1
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	4	0.1
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	4	0.1
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	4	0.1
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG13	14	0.1
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG13	14	0.1
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG13	14	0.1
(2,830)	1:120:A:ILE:HD11	1:120:A:ILE:HG12	14	0.1
(2,830)	1:120:A:ILE:HD12	1:120:A:ILE:HG12	14	0.1
(2,830)	1:120:A:ILE:HD13	1:120:A:ILE:HG12	14	0.1
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG13	11	0.1
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG13	11	0.1
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG13	11	0.1
(2,811)	1:103:A:ILE:HD11	1:103:A:ILE:HG12	11	0.1
(2,811)	1:103:A:ILE:HD12	1:103:A:ILE:HG12	11	0.1
(2,811)	1:103:A:ILE:HD13	1:103:A:ILE:HG12	11	0.1
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG13	2	0.1
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG13	2	0.1
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG13	2	0.1
(2,803)	1:93:A:ILE:HD11	1:93:A:ILE:HG12	2	0.1
(2,803)	1:93:A:ILE:HD12	1:93:A:ILE:HG12	2	0.1
(2,803)	1:93:A:ILE:HD13	1:93:A:ILE:HG12	2	0.1
(2,801)	1:93:A:ILE:H	1:93:A:ILE:HD11	11	0.1
(2,801)	1:93:A:ILE:H	1:93:A:ILE:HD12	11	0.1
(2,801)	1:93:A:ILE:H	1:93:A:ILE:HD13	11	0.1
(2,798)	1:72:A:VAL:HG21	1:24:A:LEU:H	6	0.1
(2,798)	1:72:A:VAL:HG22	1:24:A:LEU:H	6	0.1
(2,798)	1:72:A:VAL:HG23	1:24:A:LEU:H	6	0.1
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG11	3	0.1
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG12	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG13	3	0.1
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG21	3	0.1
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG22	3	0.1
(2,547)	1:211:A:VAL:H	1:211:A:VAL:HG23	3	0.1
(2,404)	1:161:A:ALA:H	1:161:A:ALA:HB1	1	0.1
(2,404)	1:161:A:ALA:H	1:161:A:ALA:HB2	1	0.1
(2,404)	1:161:A:ALA:H	1:161:A:ALA:HB3	1	0.1
(2,203)	1:99:A:ASP:H	1:98:A:ARG:H	18	0.1
(2,200)	1:99:A:ASP:H	1:98:A:ARG:H	18	0.1
(2,106)	1:192:A:ALA:H	1:194:A:HIS:H	14	0.1
(2,67)	1:53:A:MET:H	1:52:A:GLY:H	14	0.1
(2,64)	1:52:A:GLY:H	1:53:A:MET:H	14	0.1
(2,17)	1:93:A:ILE:H	1:93:A:ILE:HD11	11	0.1
(2,17)	1:93:A:ILE:H	1:93:A:ILE:HD12	11	0.1
(2,17)	1:93:A:ILE:H	1:93:A:ILE:HD13	11	0.1
(1,11)	3:303:A:ZN:ZN	1:145:A:ASP:OD2	3	0.1
(1,6)	2:302:A:CA:CA	1:173:A:ASP:OD2	4	0.1

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found