



Full wwPDB NMR Structure Validation Report ⓘ

Mar 9, 2026 – 05:28 AM UTC

PDB ID : 2M39 / pdb_00002m39
BMRB ID : 18950
Title : The solution structure of 3',5'-LINKED 2'-O-(2-METHOXYETHYL)-RNA
DUPLEX
Authors : Plevnik, M.; Cevec, M.; Plavec, J.
Deposited on : 2013-01-15

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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)
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

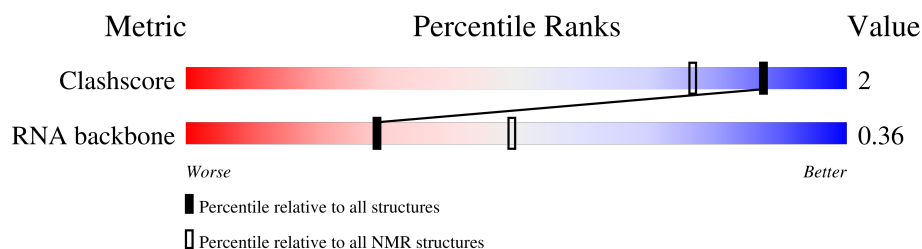
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 7%.

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
RNA backbone	8273	777

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	12	25% 42% 25% 8%
1	B	12	25% 42% 33%

2 Ensemble composition and analysis ⓘ

This entry contains 9 models. This entry does not contain polypeptide chains, therefore identification of well-defined residues and clustering analysis are not possible. All residues are included in the validation scores.

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1024 atoms, of which 418 are hydrogens and 0 are deuteriums.

- Molecule 1 is a RNA chain called RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3').

Mol	Chain	Residues	Atoms								Trace
1	A	12	Total	C	H	Ho	N	O	P	0	
			512	153	209	1	46	92	11		
1	B	12	Total	C	H	Ho	N	O	P	0	
			512	153	209	1	46	92	11		

4 Residue-property plots [i](#)

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: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG-3')

Chain A: 



- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG-3')

Chain B: 

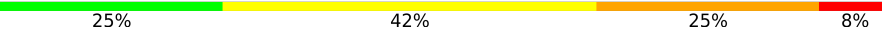


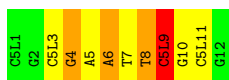
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

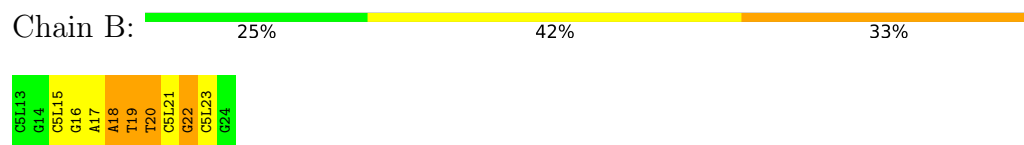
4.2.1 Score per residue for model 1

- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG-3')

Chain A: 

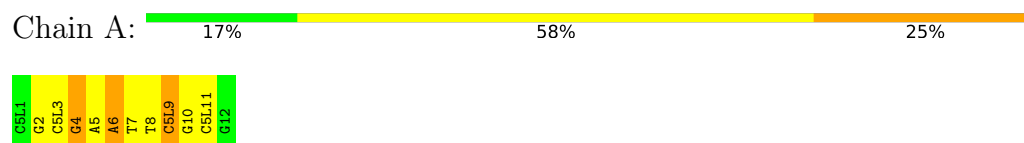


- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG-3')

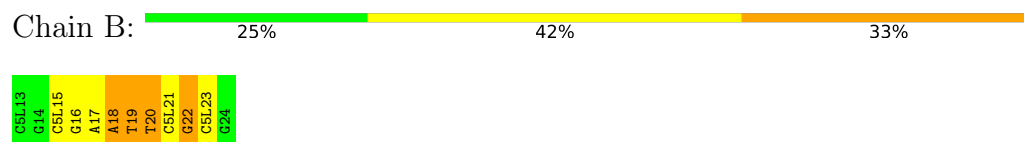


4.2.2 Score per residue for model 2

- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

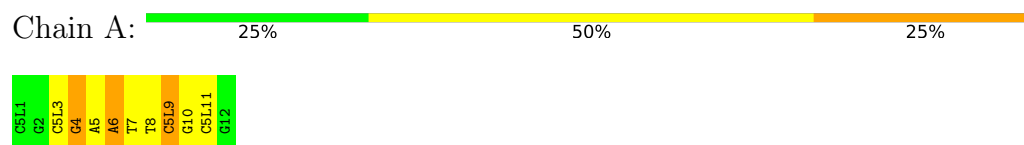


- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

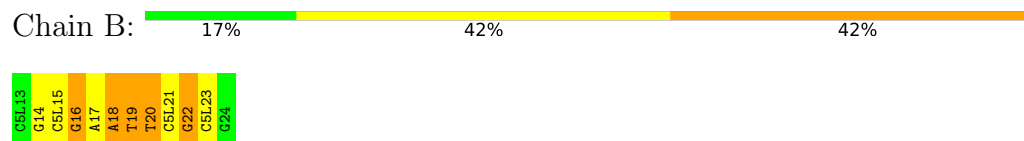


4.2.3 Score per residue for model 3

- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

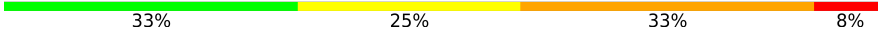


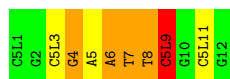
- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')



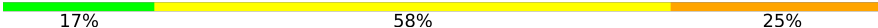
4.2.4 Score per residue for model 4

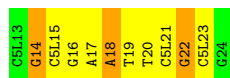
- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

Chain A:  33% 25% 33% 8%



• Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

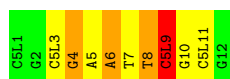
Chain B:  17% 58% 25%



4.2.5 Score per residue for model 5

• Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

Chain A:  25% 42% 25% 8%



• Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

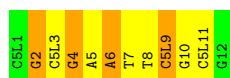
Chain B:  25% 33% 33% 8%



4.2.6 Score per residue for model 6

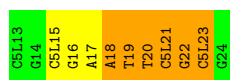
• Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

Chain A:  17% 50% 33%



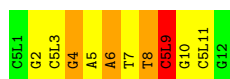
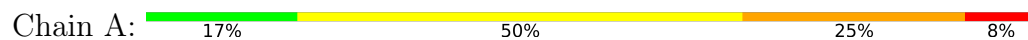
• Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

Chain B:  25% 25% 50%

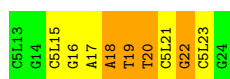


4.2.7 Score per residue for model 7

- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

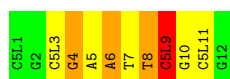


- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')



4.2.8 Score per residue for model 8

- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

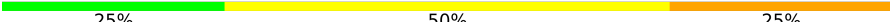


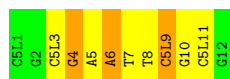
- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')



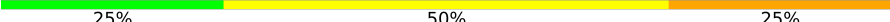
4.2.9 Score per residue for model 9

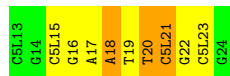
- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

Chain A:  25% 50% 25%



- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

Chain B:  25% 50% 25%



5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing, energy minimization*.

Of the 50 calculated structures, 9 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
Amber	structure solution	7
Amber	refinement	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	247
Number of shifts mapped to atoms	247
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	7%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: C5L, G48, T39, A44

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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	303	209	209	1±1
1	B	303	209	209	1±1
All	All	5454	3762	3762	18

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 2.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:8:T39:C5	1:A:9:C5L:H72	0.65	2.21	8	4
1:B:20:T39:H7	1:B:21:C5L:O4'	0.44	2.12	8	3
1:B:22:G48:H2'	1:B:23:C5L:O4'	0.43	2.13	5	2
1:A:7:T39:H7	1:A:8:T39:O4'	0.43	2.14	4	1
1:A:8:T39:H7	1:A:9:C5L:O4'	0.43	2.14	4	1
1:B:19:T39:H7	1:B:20:T39:O4'	0.41	2.16	3	7

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

6.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

6.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers	Suiteness
1	A	10/12 (83%)	3±0 (30±0%)	0±0 (1±3%)	0.47±0.00
1	B	10/12 (83%)	2±0 (20±0%)	0±0 (3±5%)	0.41±0.00
All	All	180/216 (83%)	45 (25%)	4 (2%)	0.44

The overall RNA backbone suiteness is 0.36.

All unique RNA backbone outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
1	A	4	G48	9
1	A	6	A44	9
1	A	9	C5L	9
1	B	18	A44	9
1	B	22	G48	9

All unique RNA pucker outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
1	B	16	G48	1
1	B	14	G48	1
1	B	22	G48	1
1	A	2	G48	1

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

Of 22 non-standard protein/DNA/RNA residues modelled in this entry, 2 could not be matched to an existing wwPDB Chemical Component Dictionary definition at this stage - leaving 20 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
1	A44	A	6	1	25,28,29	0.60±0.01	0±0 (0±0%)
1	C5L	B	15	1	23,26,27	0.65±0.01	0±0 (0±0%)
1	G48	A	4	1	26,29,30	0.65±0.01	0±0 (0±0%)
1	G48	B	22	1	26,29,30	0.62±0.01	0±0 (0±0%)
1	T39	A	7	1	23,26,27	0.74±0.03	0±0 (0±0%)
1	A44	B	18	1	25,28,29	0.60±0.01	0±0 (0±0%)
1	C5L	B	21	1	23,26,27	0.69±0.02	0±0 (0±0%)
1	G48	A	10	1	26,29,30	0.62±0.01	0±0 (0±0%)
1	A44	A	5	1	25,28,29	0.70±0.01	0±0 (0±0%)
1	T39	B	19	1	23,26,27	0.75±0.02	0±0 (0±0%)
1	T39	B	20	1	23,26,27	0.76±0.02	0±0 (0±1%)
1	C5L	A	3	1	23,26,27	0.65±0.01	0±0 (0±0%)
1	C5L	A	9	1	23,26,27	0.71±0.01	0±0 (0±0%)
1	A44	B	17	1	25,28,29	0.68±0.01	0±0 (0±0%)
1	C5L	B	23	1	23,26,27	0.70±0.03	0±0 (0±0%)
1	C5L	A	11	1	23,26,27	0.70±0.02	0±0 (0±0%)
1	G48	B	16	1	26,29,30	0.66±0.01	0±0 (0±0%)
1	T39	A	8	1	23,26,27	0.77±0.01	0±0 (0±0%)
1	G48	B	14	1	26,29,30	0.60±0.02	0±0 (0±0%)
1	G48	A	2	1	26,29,30	0.60±0.02	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
1	A44	A	6	1	34,39,42	1.21±0.10	3±1 (10±2%)
1	C5L	B	15	1	30,36,39	1.51±0.05	5±1 (17±3%)
1	G48	A	4	1	36,41,44	1.15±0.09	3±1 (7±3%)
1	G48	B	22	1	36,41,44	0.98±0.11	1±1 (3±3%)

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
1	T39	A	7	1	31,36,39	1.99±0.03	10±1 (32±2%)
1	A44	B	18	1	34,39,42	1.19±0.05	4±1 (10±1%)
1	C5L	B	21	1	30,36,39	2.01±0.05	9±0 (30±1%)
1	G48	A	10	1	36,41,44	1.04±0.13	1±1 (3±2%)
1	A44	A	5	1	34,39,42	1.05±0.05	2±0 (6±1%)
1	T39	B	19	1	31,36,39	2.01±0.02	11±1 (35±4%)
1	T39	B	20	1	31,36,39	1.80±0.06	6±1 (19±3%)
1	C5L	A	3	1	30,36,39	1.53±0.04	5±1 (17±2%)
1	C5L	A	9	1	30,36,39	1.99±0.06	8±1 (25±3%)
1	A44	B	17	1	34,39,42	1.14±0.08	3±1 (7±2%)
1	C5L	B	23	1	30,36,39	1.63±0.06	7±1 (22±3%)
1	C5L	A	11	1	30,36,39	1.64±0.10	7±1 (22±3%)
1	G48	B	16	1	36,41,44	1.16±0.10	3±1 (7±3%)
1	T39	A	8	1	31,36,39	1.81±0.05	5±1 (15±2%)
1	G48	B	14	1	36,41,44	0.83±0.12	1±1 (1±2%)
1	G48	A	2	1	36,41,44	0.85±0.12	0±1 (1±1%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	G48	A	4	1	-	0±0,12,30,31	0±0,3,3,3
1	T39	B	19	1	-	0±0,12,30,31	0±0,2,2,2
1	A44	B	18	1	-	0±0,12,30,31	0±0,3,3,3
1	A44	A	5	1	-	0±0,12,30,31	0±0,3,3,3
1	G48	B	22	1	-	0±0,12,30,31	0±0,3,3,3
1	C5L	A	11	1	-	0±0,12,30,31	0±0,2,2,2
1	G48	B	14	1	-	0±0,12,30,31	0±0,3,3,3
1	G48	A	2	1	-	0±0,12,30,31	0±0,3,3,3
1	C5L	B	21	1	-	0±0,12,30,31	0±0,2,2,2
1	C5L	B	23	1	-	0±0,12,30,31	0±0,2,2,2
1	G48	A	10	1	-	0±0,12,30,31	0±0,3,3,3
1	C5L	A	3	1	-	0±0,12,30,31	0±0,2,2,2
1	T39	A	7	1	-	0±0,12,30,31	0±0,2,2,2
1	T39	B	20	1	-	0±0,12,30,31	0±0,2,2,2
1	A44	B	17	1	-	0±0,12,30,31	0±0,3,3,3
1	A44	A	6	1	-	0±0,12,30,31	0±0,3,3,3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	T39	A	8	1	-	0±0,12,30,31	0±0,2,2,2
1	G48	B	16	1	-	0±0,12,30,31	0±0,3,3,3
1	C5L	B	15	1	-	0±0,12,30,31	0±0,2,2,2
1	C5L	A	9	1	-	0±0,12,30,31	0±0,2,2,2

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	B	20	T39	C2-N1	2.01	1.41	1.38	8	1

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	9	C5L	C7-C5-C6	6.21	114.44	122.85	3	9
1	B	21	C5L	C7-C5-C6	6.01	114.72	122.85	7	9
1	A	8	T39	C6-C5-C4	5.20	122.30	118.02	7	9
1	B	16	G48	C2'-C1'-N9	5.12	104.53	114.24	1	9
1	B	20	T39	C6-C5-C4	5.10	122.23	118.02	4	9
1	B	20	T39	C7-C5-C6	4.88	116.25	122.85	9	9
1	B	19	T39	C7-C5-C6	4.87	116.26	122.85	2	9
1	A	8	T39	C7-C5-C6	4.86	116.27	122.85	3	9
1	A	4	G48	C2'-C1'-N9	4.77	105.19	114.24	2	9
1	A	7	T39	C7-C5-C6	4.71	116.48	122.85	7	9
1	A	9	C5L	O2-C2-N3	4.53	115.19	122.33	2	9
1	B	21	C5L	O2-C2-N3	4.45	115.32	122.33	5	9
1	A	7	T39	O4-C4-C5	4.32	129.86	124.92	8	9
1	A	10	G48	CA'-O2'-C2'	4.20	123.34	114.02	8	1
1	A	11	C5L	O2-C2-N3	4.07	115.92	122.33	2	9
1	B	19	T39	O4-C4-C5	4.07	129.57	124.92	7	9
1	B	23	C5L	O2-C2-N3	4.04	115.96	122.33	6	9
1	A	6	A44	C2'-C1'-N9	3.99	120.33	113.75	7	6
1	B	21	C5L	C7-C5-C4	3.97	127.03	120.51	2	9
1	B	19	T39	C6-C5-C4	3.94	121.26	118.02	1	9
1	B	20	T39	C5-C6-N1	3.90	119.08	123.31	1	9
1	A	7	T39	C6-C5-C4	3.88	121.22	118.02	9	9
1	A	8	T39	C5-C6-N1	3.81	119.18	123.31	4	9
1	B	20	T39	O4'-C1'-N1	3.80	116.97	108.36	2	9
1	A	9	C5L	C7-C5-C4	3.78	126.72	120.51	3	9
1	B	21	C5L	C5-C6-N1	3.75	119.24	123.31	8	9

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	B	17	A44	O2'-C2'-C1'	3.69	102.31	108.97	9	1
1	B	15	C5L	N4-C4-N3	3.69	111.83	118.51	4	9
1	A	3	C5L	N4-C4-N3	3.69	111.83	118.51	7	9
1	B	17	A44	C2'-C1'-N9	3.67	119.79	113.75	9	3
1	A	9	C5L	C5-C6-N1	3.66	119.34	123.31	4	9
1	B	15	C5L	O2-C2-N3	3.65	116.58	122.33	4	9
1	A	3	C5L	O2-C2-N3	3.64	116.59	122.33	7	9
1	A	11	C5L	N4-C4-N3	3.56	112.06	118.51	8	9
1	B	19	T39	C7-C5-C4	3.56	122.58	118.78	2	9
1	A	7	T39	C7-C5-C4	3.50	122.52	118.78	3	9
1	B	21	C5L	N4-C4-N3	3.48	112.20	118.51	3	9
1	B	23	C5L	N4-C4-N3	3.41	112.34	118.51	9	9
1	A	9	C5L	N4-C4-N3	3.33	112.48	118.51	4	9
1	A	10	G48	O2'-C2'-C1'	3.33	114.96	108.97	8	2
1	B	18	A44	N6-C6-N1	3.32	110.98	118.38	3	9
1	A	8	T39	O4'-C1'-N1	3.26	115.75	108.36	4	9
1	A	5	A44	N6-C6-N1	3.20	111.24	118.38	9	9
1	A	11	C5L	O4'-C1'-N1	3.18	115.57	108.36	2	9
1	A	11	C5L	C7-C5-C6	3.17	118.56	122.85	2	9
1	A	4	G48	O4'-C1'-N9	3.16	115.51	108.36	7	6
1	A	6	A44	N6-C6-N1	3.12	111.42	118.38	2	9
1	A	3	C5L	C5-C6-N1	3.12	119.93	123.31	9	9
1	B	21	C5L	O4'-C1'-N1	3.09	115.36	108.36	5	6
1	A	7	T39	C2'-C1'-N1	3.08	120.08	114.24	7	3
1	A	11	C5L	C2'-C1'-N1	3.07	108.41	114.24	6	3
1	B	16	G48	O4'-C1'-N9	3.06	115.29	108.36	3	8
1	B	15	C5L	C5-C6-N1	3.05	120.00	123.31	2	9
1	B	17	A44	N6-C6-N1	3.05	111.57	118.38	5	9
1	B	23	C5L	O4'-C1'-N1	3.06	115.28	108.36	9	9
1	B	17	A44	C6-C5-C4	3.05	113.02	117.18	6	9
1	A	5	A44	C6-C5-C4	2.99	113.09	117.18	4	9
1	B	19	T39	C5-C6-N1	2.99	120.07	123.31	1	9
1	A	10	G48	O4'-C1'-N9	2.98	115.11	108.36	2	7
1	A	6	A44	CA'-O2'-C2'	2.97	120.61	114.02	4	2
1	B	23	C5L	O2'-C2'-C3'	2.96	118.69	111.05	2	2
1	B	18	A44	C2'-C1'-N9	2.94	118.60	113.75	2	5
1	A	7	T39	CA'-O2'-C2'	2.94	120.55	114.02	1	8
1	A	8	T39	O2'-C2'-C3'	2.93	118.59	111.05	1	1
1	A	4	G48	O2'-C2'-C1'	2.92	114.23	108.97	6	3
1	A	2	G48	O2'-C2'-C1'	2.91	114.21	108.97	7	1
1	A	2	G48	CA'-O2'-C2'	2.91	120.48	114.02	7	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	B	19	T39	CA'-O2'-C2'	2.89	120.44	114.02	7	8
1	B	14	G48	C2'-C1'-N9	2.88	119.71	114.24	4	1
1	A	11	C5L	C5-C6-N1	2.87	120.20	123.31	9	8
1	B	20	T39	C7-C5-C4	2.86	121.84	118.78	9	2
1	A	7	T39	C5-C6-N1	2.85	120.22	123.31	5	9
1	B	23	C5L	C5-C6-N1	2.80	120.27	123.31	1	9
1	B	15	C5L	C5-C4-N3	2.78	124.61	121.75	3	9
1	B	23	C5L	C7-C5-C6	2.76	119.12	122.85	7	9
1	A	4	G48	CA'-O2'-C2'	2.75	120.13	114.02	5	1
1	A	8	T39	C7-C5-C4	2.75	121.72	118.78	3	3
1	B	23	C5L	C2'-C1'-N1	2.74	109.03	114.24	3	3
1	B	19	T39	C2'-C3'-C4'	2.72	96.15	101.99	3	8
1	B	19	T39	C1'-N1-C6	2.72	125.62	121.15	8	8
1	A	7	T39	C1'-N1-C6	2.72	125.62	121.15	6	8
1	A	3	C5L	C5-C4-N3	2.71	124.54	121.75	6	9
1	A	7	T39	C2'-C3'-C4'	2.70	96.19	101.99	9	4
1	B	20	T39	C4-N3-C2	2.65	123.87	127.34	1	7
1	B	22	G48	O2'-C2'-C3'	2.65	117.87	111.05	5	1
1	A	9	C5L	O2-C2-N1	2.61	124.02	118.90	2	9
1	A	11	C5L	C7-C5-C4	2.60	124.79	120.51	2	3
1	B	16	G48	O2'-C2'-C3'	2.57	117.68	111.05	2	1
1	B	14	G48	O3'-C3'-C2'	2.57	118.37	111.19	4	1
1	B	18	A44	C6-C5-C4	2.53	113.72	117.18	8	9
1	A	6	A44	C6-C5-C4	2.53	113.72	117.18	5	9
1	B	19	T39	C2'-C1'-N1	2.53	119.04	114.24	4	2
1	A	5	A44	C2'-C1'-N9	2.53	117.91	113.75	9	1
1	B	21	C5L	C5'-C4'-C3'	2.51	106.18	115.21	7	2
1	B	23	C5L	CA'-O2'-C2'	2.51	119.59	114.02	2	1
1	A	4	G48	O2'-C2'-C3'	2.51	117.51	111.05	5	1
1	B	21	C5L	O4'-C4'-C5'	2.51	117.36	109.33	7	2
1	B	16	G48	O2'-C2'-C1'	2.49	113.45	108.97	1	2
1	B	22	G48	O4'-C1'-N9	2.46	113.93	108.36	1	4
1	B	16	G48	O3'-C3'-C2'	2.46	118.06	111.19	2	1
1	B	21	C5L	O2-C2-N1	2.45	123.70	118.90	2	9
1	A	3	C5L	C7-C5-C6	2.44	119.55	122.85	5	2
1	B	21	C5L	O3'-C3'-C2'	2.42	117.96	111.19	8	4
1	B	19	T39	O2'-C2'-C1'	2.40	113.28	108.97	8	6
1	B	22	G48	O3'-C3'-C2'	2.39	117.89	111.19	5	1
1	A	10	G48	O2'-C2'-C3'	2.39	117.20	111.05	8	1
1	A	11	C5L	O3'-C3'-C4'	2.39	117.94	111.08	2	2
1	A	7	T39	O4'-C4'-C5'	2.38	116.95	109.33	4	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	B	17	A44	O4'-C1'-N9	2.38	112.66	108.09	1	1
1	A	7	T39	C5'-C4'-C3'	2.38	106.66	115.21	7	2
1	B	19	T39	O4'-C1'-C2'	2.37	102.51	106.59	2	3
1	B	21	C5L	C4-N3-C2	2.35	117.55	120.81	4	9
1	A	8	T39	C4-N3-C2	2.35	124.26	127.34	4	1
1	B	14	G48	O2'-C2'-C3'	2.33	117.06	111.05	3	1
1	B	19	T39	O4'-C4'-C5'	2.33	116.79	109.33	9	7
1	B	14	G48	CA'-O2'-C2'	2.32	119.16	114.02	3	1
1	B	19	T39	N3-C2-N1	2.31	117.89	114.89	5	9
1	A	11	C5L	C2'-C3'-C4'	2.30	97.04	101.99	7	1
1	B	16	G48	O4'-C4'-C5'	2.29	116.67	109.33	3	3
1	B	18	A44	C6-C5-N7	2.28	136.49	132.09	8	8
1	B	22	G48	C5'-C4'-C3'	2.28	107.00	115.21	5	2
1	A	7	T39	N3-C2-N1	2.27	117.84	114.89	2	9
1	B	16	G48	CA'-O2'-C2'	2.26	119.05	114.02	2	1
1	B	22	G48	C2'-C3'-C4'	2.25	97.15	101.99	4	2
1	A	9	C5L	C4-N3-C2	2.25	117.69	120.81	8	9
1	A	4	G48	O4'-C4'-C5'	2.23	116.49	109.33	4	2
1	A	8	T39	C1'-N1-C2	2.23	121.60	117.59	3	1
1	A	8	T39	O3'-C3'-C2'	2.23	117.42	111.19	4	1
1	A	9	C5L	O4'-C1'-N1	2.23	113.41	108.36	4	1
1	B	19	T39	O3'-C3'-C2'	2.23	117.42	111.19	9	3
1	A	7	T39	O2'-C2'-C3'	2.22	116.78	111.05	3	1
1	A	2	G48	C2'-C1'-N9	2.21	118.44	114.24	6	1
1	B	20	T39	O3'-C3'-C2'	2.21	117.38	111.19	3	5
1	B	18	A44	C5'-C4'-C3'	2.21	107.25	115.21	4	1
1	A	3	C5L	O4'-C1'-N1	2.21	113.37	108.36	3	3
1	B	20	T39	O4'-C1'-C2'	2.19	102.82	106.59	4	2
1	A	11	C5L	O2-C2-N1	2.19	123.19	118.90	2	2
1	B	15	C5L	C7-C5-C6	2.19	119.89	122.85	8	3
1	B	15	C5L	O4'-C1'-N1	2.19	113.31	108.36	2	2
1	A	11	C5L	C4-N3-C2	2.18	117.78	120.81	9	4
1	B	21	C5L	C5-C4-N3	2.18	123.99	121.75	3	3
1	B	14	G48	O4'-C4'-C5'	2.18	116.30	109.33	4	1
1	A	7	T39	O2'-C2'-C1'	2.17	112.88	108.97	2	5
1	A	7	T39	O4'-C1'-C2'	2.17	102.85	106.59	4	1
1	A	6	A44	C6-C5-N7	2.15	136.24	132.09	5	3
1	A	9	C5L	C5'-C4'-C3'	2.15	107.46	115.21	3	1
1	A	11	C5L	C5-C4-N4	2.14	124.41	121.39	8	1
1	B	23	C5L	C4-N3-C2	2.12	117.86	120.81	7	6
1	B	15	C5L	C7-C5-C4	2.11	123.97	120.51	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	B	20	T39	O2'-C2'-C1'	2.11	112.76	108.97	1	1
1	A	4	G48	O3'-C3'-C2'	2.10	117.07	111.19	5	1
1	A	3	C5L	C7-C5-C4	2.09	123.94	120.51	5	1
1	A	6	A44	O2'-C2'-C1'	2.09	105.20	108.97	7	1
1	A	5	A44	O4'-C1'-N9	2.09	112.10	108.09	2	1
1	B	23	C5L	O3'-C3'-C2'	2.08	117.01	111.19	5	1
1	B	23	C5L	C7-C5-C4	2.08	123.92	120.51	7	2
1	B	23	C5L	O2-C2-N1	2.07	122.95	118.90	5	2
1	A	3	C5L	C4-N3-C2	2.06	117.94	120.81	3	6
1	A	11	C5L	O4'-C1'-C2'	2.05	103.05	106.59	2	1
1	A	9	C5L	O2'-C2'-C1'	2.05	105.27	108.97	3	1
1	B	20	T39	C1'-N1-C6	2.05	117.78	121.15	8	1
1	B	21	C5L	O2'-C2'-C1'	2.05	112.66	108.97	5	1
1	A	9	C5L	C5-C4-N3	2.05	123.85	121.75	5	2
1	B	15	C5L	C4-N3-C2	2.05	117.97	120.81	6	4
1	A	7	T39	O4-C4-N3	2.04	116.28	120.11	2	2
1	A	6	A44	O4'-C4'-C3'	2.04	109.20	105.15	1	1
1	B	20	T39	C1'-N1-C2	2.03	121.25	117.59	8	1
1	B	22	G48	O4'-C4'-C5'	2.03	115.84	109.33	5	1
1	B	18	A44	O3'-C3'-C2'	2.03	116.87	111.19	8	1
1	A	9	C5L	O3'-C3'-C2'	2.01	116.82	111.19	4	1
1	A	7	T39	O3'-C3'-C2'	2.01	116.82	111.19	3	1
1	A	8	T39	O4-C4-C5	2.01	127.22	124.92	9	1
1	B	22	G48	O2'-C2'-C1'	2.01	112.59	108.97	3	1
1	A	9	C5L	O2'-C2'-C3'	2.01	116.22	111.05	3	1

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

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 7% for the well-defined parts and 7% 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	247
Number of shifts mapped to atoms	247
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

No chemical shift referencing corrections were calculated (not enough data).

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 7%, i.e. 3 atoms were assigned a chemical shift out of a possible 42. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Sugar	2/24 (8%)	2/14 (14%)	0/10 (0%)	0/0 (—%)
Base	1/18 (6%)	1/12 (8%)	0/2 (0%)	0/4 (0%)
Overall	3/42 (7%)	3/26 (12%)	0/12 (0%)	0/4 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 7%, i.e. 3 atoms were assigned a chemical shift out of a possible 42. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Sugar	2/24 (8%)	2/14 (14%)	0/10 (0%)	0/0 (—%)
Base	1/18 (6%)	1/12 (8%)	0/2 (0%)	0/4 (0%)
Overall	3/42 (7%)	3/26 (12%)	0/12 (0%)	0/4 (0%)

7.1.4 Statistically unusual chemical shifts ⓘ

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots ⓘ

No *random coil index*(RCI) plot could be generated from the current chemical shift list. RCI is only applicable to proteins

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	239
Intra-residue ($ i-j =0$)	58
Sequential ($ i-j =1$)	101
Medium range ($ i-j >1$ and $ i-j <5$)	13
Long range ($ i-j \geq 5$)	15
Inter-chain	0
Hydrogen bond restraints	52
Disulfide bond restraints	0
Total dihedral-angle restraints	57
Number of unmapped restraints	0
Number of restraints per residue	12.3
Number of long range restraints per residue ¹	2.3

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)	9.9	0.2
0.2-0.5 (Medium)	10.7	0.49
>0.5 (Large)	78.1	30.21

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 ⓘ

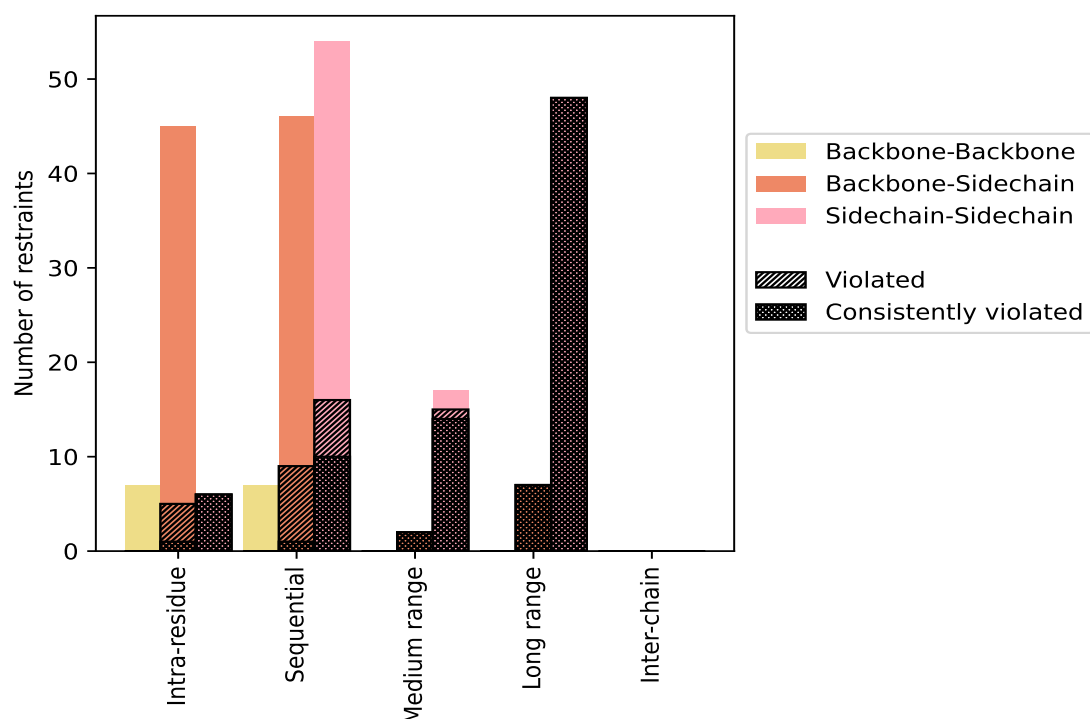
9.1 Summary of distance violations ⓘ

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)	58	24.3	11	19.0	4.6	7	12.1	2.9
Backbone-Backbone	7	2.9	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	45	18.8	5	11.1	2.1	1	2.2	0.4
Sidechain-Sidechain	6	2.5	6	100.0	2.5	6	100.0	2.5
Sequential (i-j =1)	101	42.3	19	18.8	7.9	5	5.0	2.1
Backbone-Backbone	7	2.9	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	46	19.2	9	19.6	3.8	1	2.2	0.4
Sidechain-Sidechain	48	20.1	10	20.8	4.2	4	8.3	1.7
Medium range (i-j >1 & i-j <5)	13	5.4	11	84.6	4.6	10	76.9	4.2
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	2	0.8	2	100.0	0.8	2	100.0	0.8
Sidechain-Sidechain	11	4.6	9	81.8	3.8	8	72.7	3.3
Long range (i-j ≥5)	15	6.3	15	100.0	6.3	15	100.0	6.3
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	7	2.9	7	100.0	2.9	7	100.0	2.9
Sidechain-Sidechain	8	3.3	8	100.0	3.3	8	100.0	3.3
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	52	21.8	52	100.0	21.8	52	100.0	21.8
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	239	100.0	108	45.2	45.2	89	37.2	37.2
Backbone-Backbone	14	5.9	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	100	41.8	23	23.0	9.6	11	11.0	4.6
Sidechain-Sidechain	125	52.3	85	68.0	35.6	78	62.4	32.6

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](#)

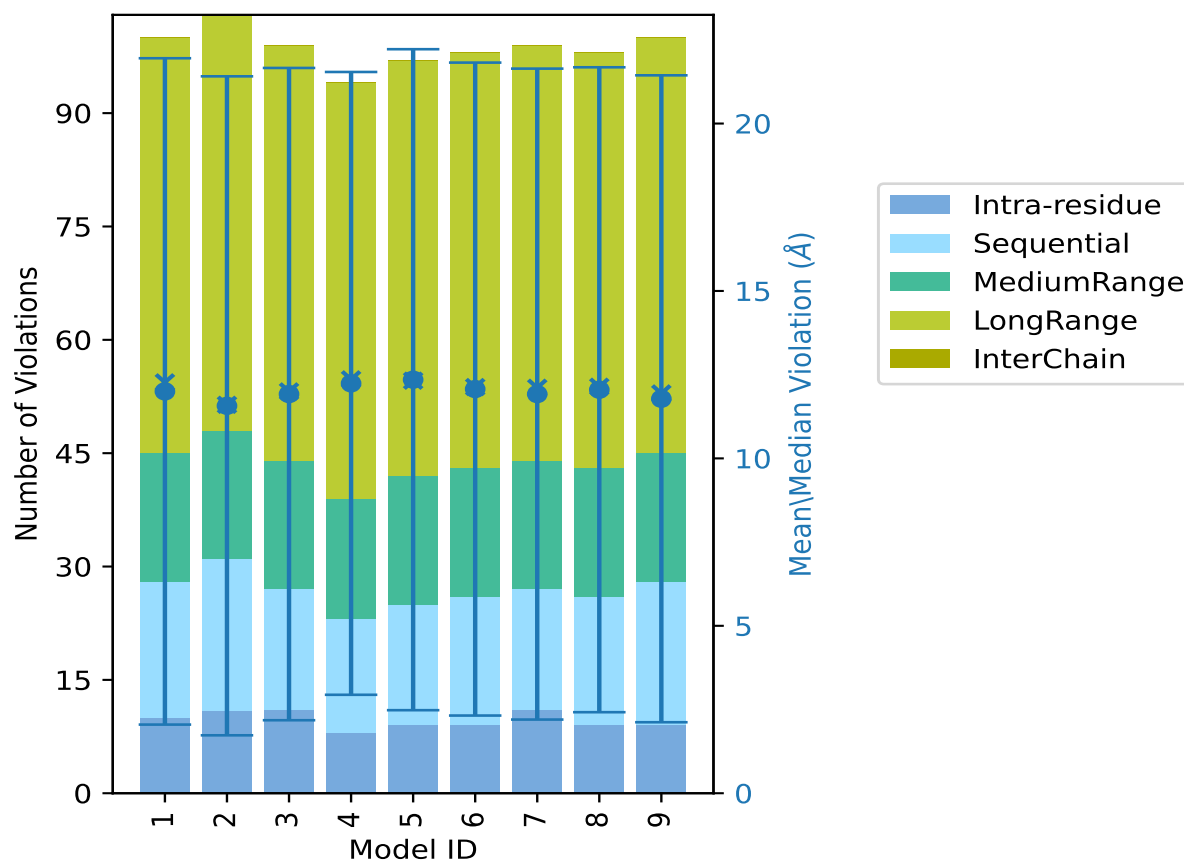
The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

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	10	18	17	55	0	100	12.0	30.11	9.95	12.27
2	11	20	17	55	0	103	11.57	29.33	9.84	11.6
3	11	16	17	55	0	99	11.92	29.68	9.74	12.0
4	8	15	16	55	0	94	12.24	28.35	9.3	12.36
5	9	16	17	55	0	97	12.35	30.21	9.87	12.32
6	9	17	17	55	0	98	12.07	29.82	9.75	12.13
7	11	16	17	55	0	99	11.92	29.09	9.72	12.11
8	9	17	17	55	0	98	12.05	28.88	9.63	12.14
9	9	19	17	55	0	100	11.78	28.69	9.66	11.94

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 [i](#)



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 [i](#)

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, 131(IR:47, SQ:82, MR:2, LR:0, IC:0) 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	%
0	4	0	0	0	4	1	11.1
0	0	0	0	0	0	2	22.2
0	0	0	0	0	0	3	33.3
1	6	0	0	0	7	4	44.4

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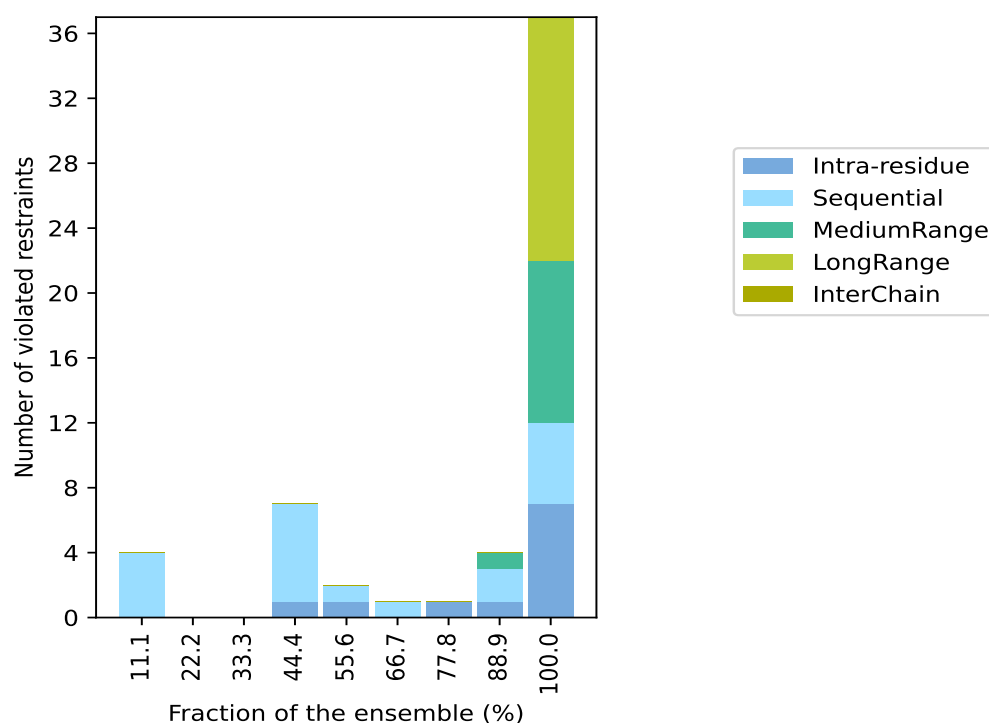
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
1	1	0	0	0	2	5	55.6
0	1	0	0	0	1	6	66.7
1	0	0	0	0	1	7	77.8
1	2	1	0	0	4	8	88.9
7	5	10	15	0	37	9	100.0

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

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

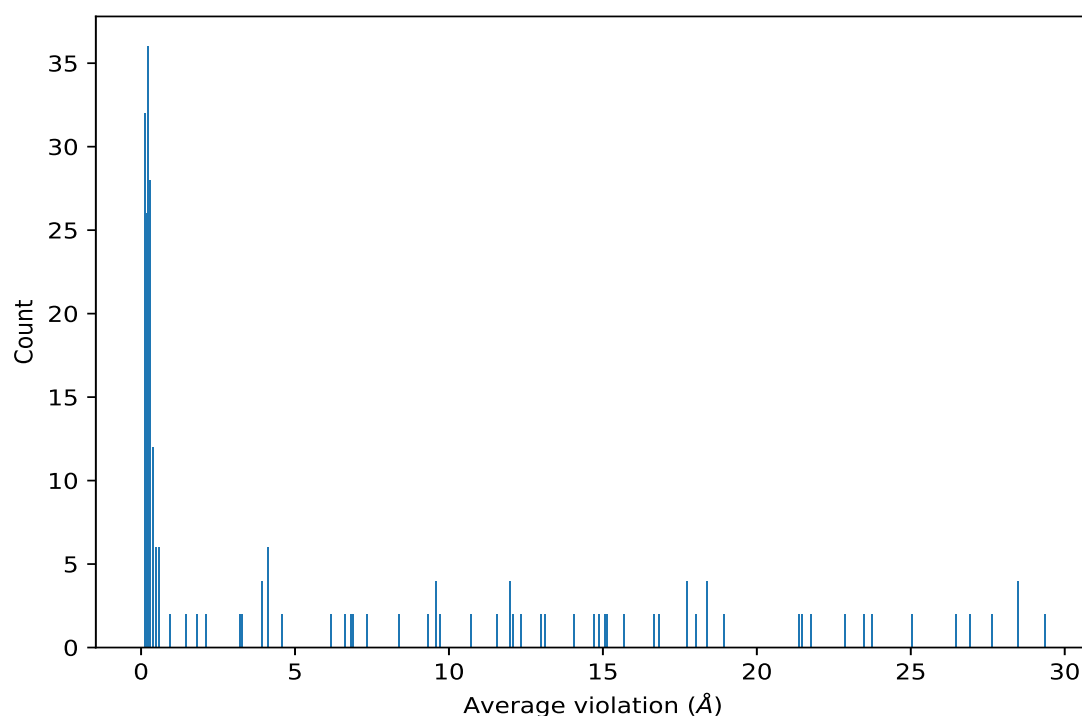
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(2,47)	1:13:B:C5L:O2	1:24:B:DG:H21	9	29.35	0.61	29.33
(2,52)	1:13:B:C5L:O2	1:24:B:DG:H21	9	29.35	0.61	29.33
(2,44)	1:13:B:C5L:N3	1:24:B:DG:H1	9	28.49	0.5	28.38
(2,49)	1:13:B:C5L:N3	1:24:B:DG:H1	9	28.49	0.5	28.38
(2,43)	1:13:B:C5L:H41	1:24:B:DG:O6	9	28.46	0.39	28.41
(2,48)	1:13:B:C5L:H41	1:24:B:DG:O6	9	28.46	0.39	28.41
(2,45)	1:13:B:C5L:N3	1:24:B:DG:N1	9	27.61	0.49	27.53
(2,50)	1:13:B:C5L:N3	1:24:B:DG:N1	9	27.61	0.49	27.53
(2,46)	1:13:B:C5L:N4	1:24:B:DG:O6	9	26.93	0.38	26.89
(2,51)	1:13:B:C5L:N4	1:24:B:DG:O6	9	26.93	0.38	26.89
(2,5)	1:14:B:G48:H21	1:23:B:C5L:O2	9	26.46	0.34	26.49
(2,42)	1:23:B:C5L:O2	1:14:B:G48:H21	9	26.46	0.34	26.49
(2,3)	1:14:B:G48:H1	1:23:B:C5L:N3	9	25.01	0.32	24.94
(2,39)	1:23:B:C5L:N3	1:14:B:G48:H1	9	25.01	0.32	24.94
(2,4)	1:14:B:G48:N1	1:23:B:C5L:N3	9	23.72	0.34	23.68
(2,40)	1:23:B:C5L:N3	1:14:B:G48:N1	9	23.72	0.34	23.68

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1)	1:14:B:G48:O6	1:23:B:C5L:H41	9	23.47	0.38	23.5
(2,38)	1:23:B:C5L:H41	1:14:B:G48:O6	9	23.47	0.38	23.5
(2,2)	1:14:B:G48:O6	1:23:B:C5L:N4	9	22.86	0.35	22.89
(2,41)	1:23:B:C5L:N4	1:14:B:G48:O6	9	22.86	0.35	22.89
(2,10)	1:15:B:C5L:O2	1:22:B:G48:H21	9	21.76	0.3	21.85
(2,37)	1:22:B:G48:H21	1:15:B:C5L:O2	9	21.76	0.3	21.85
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	9	21.45	0.32	21.42
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	9	21.45	0.32	21.42
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	9	21.36	0.47	21.48
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	9	21.36	0.47	21.48
(2,7)	1:15:B:C5L:N3	1:22:B:G48:H1	9	18.93	0.3	18.94
(2,35)	1:22:B:G48:H1	1:15:B:C5L:N3	9	18.93	0.3	18.94
(2,8)	1:15:B:C5L:N3	1:22:B:G48:N1	9	18.37	0.27	18.35
(2,36)	1:22:B:G48:N1	1:15:B:C5L:N3	9	18.37	0.27	18.35
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	9	18.37	0.26	18.43
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	9	18.37	0.26	18.43
(2,6)	1:15:B:C5L:H41	1:22:B:G48:O6	9	18.0	0.3	18.01
(2,33)	1:22:B:G48:O6	1:15:B:C5L:H41	9	18.0	0.3	18.01
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	9	17.74	0.25	17.72
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	9	17.74	0.25	17.72
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	9	17.74	0.25	17.72
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	9	17.74	0.25	17.72
(2,15)	1:16:B:G48:H21	1:21:B:C5L:O2	9	16.84	0.18	16.88
(2,32)	1:21:B:C5L:O2	1:16:B:G48:H21	9	16.84	0.18	16.88
(2,9)	1:15:B:C5L:N4	1:22:B:G48:O6	9	16.66	0.32	16.69
(2,34)	1:22:B:G48:O6	1:15:B:C5L:N4	9	16.66	0.32	16.69
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	9	15.69	0.27	15.67
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	9	15.69	0.27	15.67
(2,13)	1:16:B:G48:H1	1:21:B:C5L:N3	9	15.1	0.12	15.14
(2,29)	1:21:B:C5L:N3	1:16:B:G48:H1	9	15.1	0.12	15.14
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	9	15.05	0.28	15.07
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	9	15.05	0.28	15.07
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	9	14.85	0.11	14.89
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	9	14.85	0.11	14.89
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	9	14.7	0.31	14.73
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	9	14.7	0.31	14.73
(2,14)	1:16:B:G48:N1	1:21:B:C5L:N3	9	14.07	0.13	14.07
(2,30)	1:21:B:C5L:N3	1:16:B:G48:N1	9	14.07	0.13	14.07
(2,11)	1:16:B:G48:O6	1:21:B:C5L:H41	9	13.12	0.13	13.17
(2,28)	1:21:B:C5L:H41	1:16:B:G48:O6	9	13.12	0.13	13.17
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	9	12.96	0.33	12.98
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	9	12.96	0.33	12.98

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,12)	1:16:B:G48:O6	1:21:B:C5L:N4	9	12.3	0.11	12.32
(2,31)	1:21:B:C5L:N4	1:16:B:G48:O6	9	12.3	0.11	12.32
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	9	12.06	0.13	12.03
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	9	12.06	0.13	12.03
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	9	11.99	0.27	12.05
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	9	11.99	0.27	12.05
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	9	11.99	0.27	12.05
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	9	11.99	0.27	12.05
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	9	11.59	0.21	11.6
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	9	11.59	0.21	11.6
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	9	10.73	0.27	10.73
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	9	10.73	0.27	10.73
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	9	9.73	0.21	9.68
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	9	9.73	0.21	9.68
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	9	9.59	0.1	9.61
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	9	9.59	0.1	9.61
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	9	9.59	0.1	9.61
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	9	9.59	0.1	9.61
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	9	9.3	0.15	9.26
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	9	9.3	0.15	9.26
(2,17)	1:17:B:A44:N1	1:20:B:T39:H3	9	8.38	0.07	8.34
(2,25)	1:20:B:T39:H3	1:17:B:A44:N1	9	8.38	0.07	8.34
(2,18)	1:17:B:A44:N1	1:20:B:T39:N3	9	7.33	0.06	7.32
(2,26)	1:20:B:T39:N3	1:17:B:A44:N1	9	7.33	0.06	7.32
(2,16)	1:17:B:A44:H61	1:20:B:T39:O4	9	6.85	0.06	6.85
(2,27)	1:20:B:T39:O4	1:17:B:A44:H61	9	6.85	0.06	6.85
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	9	6.81	0.14	6.8
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	9	6.81	0.14	6.8
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	9	6.61	0.08	6.57
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	9	6.61	0.08	6.57
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	9	6.15	0.1	6.12
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	9	6.15	0.1	6.12
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	9	4.55	0.09	4.58
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	9	4.55	0.09	4.58
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	9	4.13	0.08	4.14
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	9	4.13	0.08	4.14
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	9	4.13	0.08	4.14
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	9	4.13	0.08	4.14
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	9	4.13	0.08	4.14
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	9	4.13	0.08	4.14
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	9	3.94	0.04	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	9	3.94	0.04	3.94

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	9	3.94	0.04	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	9	3.94	0.04	3.94
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	9	3.28	0.06	3.31
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	9	3.28	0.06	3.31
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	9	3.21	0.07	3.18
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	9	3.21	0.07	3.18
(2,20)	1:18:B:A44:N1	1:19:B:T39:H3	9	2.11	0.07	2.1
(2,22)	1:19:B:T39:H3	1:18:B:A44:N1	9	2.11	0.07	2.1
(2,19)	1:18:B:A44:H61	1:19:B:T39:O4	9	1.8	0.05	1.82
(2,24)	1:19:B:T39:O4	1:18:B:A44:H61	9	1.8	0.05	1.82
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	9	1.46	0.08	1.45
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	9	1.46	0.08	1.45
(2,21)	1:18:B:A44:N1	1:19:B:T39:N3	9	0.93	0.09	0.94
(2,23)	1:19:B:T39:N3	1:18:B:A44:N1	9	0.93	0.09	0.94
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	9	0.59	0.04	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	9	0.59	0.04	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	9	0.59	0.04	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	9	0.59	0.04	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	9	0.59	0.04	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	9	0.59	0.04	0.61
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	9	0.39	0.01	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	9	0.39	0.01	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	9	0.39	0.01	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	9	0.39	0.01	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	9	0.39	0.01	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	9	0.39	0.01	0.39
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	9	0.38	0.04	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	9	0.38	0.04	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	9	0.38	0.04	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	9	0.38	0.04	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	9	0.38	0.04	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	9	0.38	0.04	0.36
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	9	0.29	0.06	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	9	0.29	0.06	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	9	0.29	0.06	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	9	0.29	0.06	0.3
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	9	0.29	0.03	0.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	9	0.29	0.03	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	9	0.29	0.03	0.29
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	9	0.23	0.01	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	9	0.23	0.01	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	9	0.23	0.01	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	9	0.23	0.01	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	9	0.23	0.01	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	9	0.23	0.01	0.22
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	9	0.2	0.03	0.21
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	9	0.2	0.03	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	9	0.2	0.01	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	9	0.2	0.01	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	9	0.2	0.01	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	9	0.2	0.01	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	9	0.2	0.01	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	9	0.2	0.01	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	9	0.19	0.01	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	9	0.19	0.01	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	9	0.19	0.01	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	9	0.19	0.01	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	9	0.19	0.01	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	9	0.19	0.01	0.19
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	9	0.16	0.01	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	9	0.16	0.01	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	9	0.16	0.01	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	9	0.16	0.01	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	9	0.16	0.01	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	9	0.16	0.01	0.16
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	9	0.12	0.0	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	9	0.12	0.0	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	9	0.12	0.0	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	9	0.12	0.0	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	9	0.12	0.0	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	9	0.12	0.0	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	9	0.12	0.01	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	9	0.12	0.01	0.12
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	8	0.26	0.04	0.25
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	8	0.26	0.04	0.25
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	8	0.26	0.04	0.25
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	8	0.26	0.04	0.25
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	8	0.26	0.04	0.25
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	8	0.26	0.04	0.25
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	8	0.24	0.06	0.24
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	8	0.24	0.06	0.24
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	8	0.24	0.06	0.24
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	8	0.24	0.06	0.24
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	8	0.24	0.03	0.24
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	8	0.24	0.03	0.24
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	8	0.18	0.05	0.18
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	8	0.18	0.05	0.18
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	7	0.21	0.06	0.24
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	7	0.21	0.06	0.24
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	7	0.21	0.06	0.24
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	7	0.21	0.06	0.24
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	6	0.2	0.06	0.2
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	6	0.2	0.06	0.2
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	6	0.2	0.06	0.2
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	6	0.2	0.06	0.2

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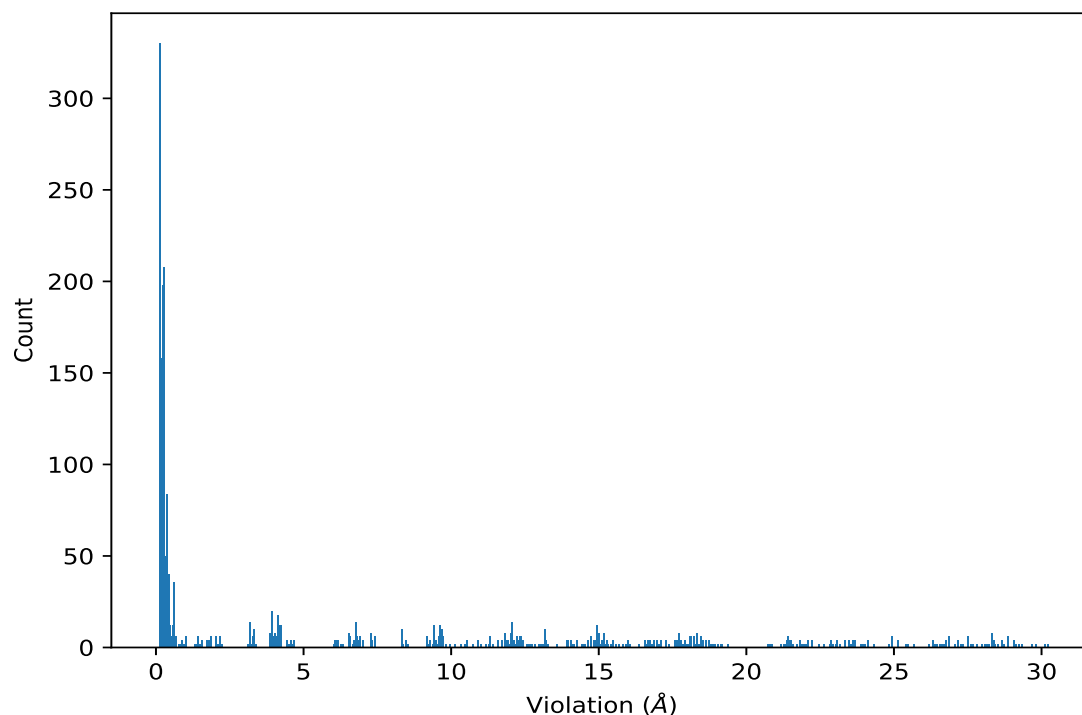
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	6	0.2	0.06	0.2
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	6	0.2	0.06	0.2
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H71	5	0.45	0.16	0.43
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H72	5	0.45	0.16	0.43
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H73	5	0.45	0.16	0.43
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H71	5	0.45	0.16	0.43
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H72	5	0.45	0.16	0.43
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H73	5	0.45	0.16	0.43
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA1	5	0.2	0.03	0.21
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA2	5	0.2	0.03	0.21
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA1	5	0.2	0.03	0.21
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA2	5	0.2	0.03	0.21
(1,7)	1:13:B:C5L:H6	1:14:B:G48:H8	4	0.22	0.07	0.2
(1,7)	1:13:B:C5L:H6	1:14:B:G48:H8	4	0.22	0.07	0.2
(1,2)	1:13:B:C5L:H2'	1:14:B:G48:H8	4	0.18	0.06	0.18
(1,2)	1:13:B:C5L:H2'	1:14:B:G48:H8	4	0.18	0.06	0.18
(1,50)	1:18:B:A44:H3'	1:19:B:T39:H6	4	0.17	0.05	0.16
(1,50)	1:18:B:A44:H3'	1:19:B:T39:H6	4	0.17	0.05	0.16
(1,5)	1:13:B:C5L:H6	1:13:B:C5L:H3'	4	0.17	0.02	0.16
(1,5)	1:13:B:C5L:H6	1:13:B:C5L:H3'	4	0.17	0.02	0.16
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H71	4	0.16	0.03	0.16
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H72	4	0.16	0.03	0.16
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H73	4	0.16	0.03	0.16
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H71	4	0.16	0.03	0.16
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H72	4	0.16	0.03	0.16
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H73	4	0.16	0.03	0.16
(1,109)	1:24:B:DG:H8	1:23:B:C5L:H2'	4	0.14	0.02	0.15
(1,109)	1:24:B:DG:H8	1:23:B:C5L:H2'	4	0.14	0.02	0.15
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H71	4	0.13	0.01	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H72	4	0.13	0.01	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H73	4	0.13	0.01	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H71	4	0.13	0.01	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H72	4	0.13	0.01	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H73	4	0.13	0.01	0.14

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)
(2,52)	1:13:B:C5L:O2	1:24:B:DG:H21	5	30.21
(2,47)	1:13:B:C5L:O2	1:24:B:DG:H21	5	30.21
(2,52)	1:13:B:C5L:O2	1:24:B:DG:H21	1	30.11
(2,47)	1:13:B:C5L:O2	1:24:B:DG:H21	1	30.11
(2,52)	1:13:B:C5L:O2	1:24:B:DG:H21	6	29.82
(2,47)	1:13:B:C5L:O2	1:24:B:DG:H21	6	29.82
(2,52)	1:13:B:C5L:O2	1:24:B:DG:H21	3	29.68
(2,47)	1:13:B:C5L:O2	1:24:B:DG:H21	3	29.68
(2,52)	1:13:B:C5L:O2	1:24:B:DG:H21	2	29.33
(2,47)	1:13:B:C5L:O2	1:24:B:DG:H21	2	29.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,49)	1:13:B:C5L:N3	1:24:B:DG:H1	5	29.21
(2,44)	1:13:B:C5L:N3	1:24:B:DG:H1	5	29.21
(2,49)	1:13:B:C5L:N3	1:24:B:DG:H1	1	29.1
(2,44)	1:13:B:C5L:N3	1:24:B:DG:H1	1	29.1
(2,52)	1:13:B:C5L:O2	1:24:B:DG:H21	7	29.09
(2,48)	1:13:B:C5L:H41	1:24:B:DG:O6	5	29.09
(2,47)	1:13:B:C5L:O2	1:24:B:DG:H21	7	29.09
(2,43)	1:13:B:C5L:H41	1:24:B:DG:O6	5	29.09
(2,52)	1:13:B:C5L:O2	1:24:B:DG:H21	8	28.88
(2,48)	1:13:B:C5L:H41	1:24:B:DG:O6	1	28.88
(2,47)	1:13:B:C5L:O2	1:24:B:DG:H21	8	28.88
(2,43)	1:13:B:C5L:H41	1:24:B:DG:O6	1	28.88
(2,49)	1:13:B:C5L:N3	1:24:B:DG:H1	6	28.86
(2,44)	1:13:B:C5L:N3	1:24:B:DG:H1	6	28.86
(2,49)	1:13:B:C5L:N3	1:24:B:DG:H1	3	28.72
(2,44)	1:13:B:C5L:N3	1:24:B:DG:H1	3	28.72
(2,52)	1:13:B:C5L:O2	1:24:B:DG:H21	9	28.69
(2,47)	1:13:B:C5L:O2	1:24:B:DG:H21	9	28.69
(2,48)	1:13:B:C5L:H41	1:24:B:DG:O6	6	28.68
(2,43)	1:13:B:C5L:H41	1:24:B:DG:O6	6	28.68
(2,48)	1:13:B:C5L:H41	1:24:B:DG:O6	3	28.54
(2,43)	1:13:B:C5L:H41	1:24:B:DG:O6	3	28.54
(2,48)	1:13:B:C5L:H41	1:24:B:DG:O6	7	28.41
(2,43)	1:13:B:C5L:H41	1:24:B:DG:O6	7	28.41
(2,49)	1:13:B:C5L:N3	1:24:B:DG:H1	2	28.38
(2,44)	1:13:B:C5L:N3	1:24:B:DG:H1	2	28.38
(2,52)	1:13:B:C5L:O2	1:24:B:DG:H21	4	28.35
(2,47)	1:13:B:C5L:O2	1:24:B:DG:H21	4	28.35
(2,50)	1:13:B:C5L:N3	1:24:B:DG:N1	5	28.32
(2,49)	1:13:B:C5L:N3	1:24:B:DG:H1	7	28.32
(2,48)	1:13:B:C5L:H41	1:24:B:DG:O6	9	28.32
(2,45)	1:13:B:C5L:N3	1:24:B:DG:N1	5	28.32
(2,44)	1:13:B:C5L:N3	1:24:B:DG:H1	7	28.32
(2,43)	1:13:B:C5L:H41	1:24:B:DG:O6	9	28.32
(2,48)	1:13:B:C5L:H41	1:24:B:DG:O6	2	28.3
(2,43)	1:13:B:C5L:H41	1:24:B:DG:O6	2	28.3
(2,48)	1:13:B:C5L:H41	1:24:B:DG:O6	8	28.22
(2,43)	1:13:B:C5L:H41	1:24:B:DG:O6	8	28.22
(2,50)	1:13:B:C5L:N3	1:24:B:DG:N1	1	28.19
(2,45)	1:13:B:C5L:N3	1:24:B:DG:N1	1	28.19
(2,49)	1:13:B:C5L:N3	1:24:B:DG:H1	8	28.11
(2,44)	1:13:B:C5L:N3	1:24:B:DG:H1	8	28.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,49)	1:13:B:C5L:N3	1:24:B:DG:H1	9	28.08
(2,44)	1:13:B:C5L:N3	1:24:B:DG:H1	9	28.08
(2,50)	1:13:B:C5L:N3	1:24:B:DG:N1	6	27.97
(2,45)	1:13:B:C5L:N3	1:24:B:DG:N1	6	27.97
(2,50)	1:13:B:C5L:N3	1:24:B:DG:N1	3	27.83
(2,45)	1:13:B:C5L:N3	1:24:B:DG:N1	3	27.83
(2,48)	1:13:B:C5L:H41	1:24:B:DG:O6	4	27.66
(2,43)	1:13:B:C5L:H41	1:24:B:DG:O6	4	27.66
(2,49)	1:13:B:C5L:N3	1:24:B:DG:H1	4	27.6
(2,44)	1:13:B:C5L:N3	1:24:B:DG:H1	4	27.6
(2,50)	1:13:B:C5L:N3	1:24:B:DG:N1	2	27.53
(2,45)	1:13:B:C5L:N3	1:24:B:DG:N1	2	27.53
(2,51)	1:13:B:C5L:N4	1:24:B:DG:O6	5	27.5
(2,50)	1:13:B:C5L:N3	1:24:B:DG:N1	7	27.5
(2,46)	1:13:B:C5L:N4	1:24:B:DG:O6	5	27.5
(2,45)	1:13:B:C5L:N3	1:24:B:DG:N1	7	27.5
(2,51)	1:13:B:C5L:N4	1:24:B:DG:O6	1	27.34
(2,46)	1:13:B:C5L:N4	1:24:B:DG:O6	1	27.34
(2,50)	1:13:B:C5L:N3	1:24:B:DG:N1	8	27.26
(2,45)	1:13:B:C5L:N3	1:24:B:DG:N1	8	27.26
(2,51)	1:13:B:C5L:N4	1:24:B:DG:O6	6	27.19
(2,50)	1:13:B:C5L:N3	1:24:B:DG:N1	9	27.19
(2,46)	1:13:B:C5L:N4	1:24:B:DG:O6	6	27.19
(2,45)	1:13:B:C5L:N3	1:24:B:DG:N1	9	27.19
(2,51)	1:13:B:C5L:N4	1:24:B:DG:O6	3	27.07
(2,46)	1:13:B:C5L:N4	1:24:B:DG:O6	3	27.07
(2,42)	1:23:B:C5L:O2	1:14:B:G48:H21	5	26.9
(2,5)	1:14:B:G48:H21	1:23:B:C5L:O2	5	26.9
(2,51)	1:13:B:C5L:N4	1:24:B:DG:O6	7	26.89
(2,46)	1:13:B:C5L:N4	1:24:B:DG:O6	7	26.89
(2,42)	1:23:B:C5L:O2	1:14:B:G48:H21	1	26.86
(2,5)	1:14:B:G48:H21	1:23:B:C5L:O2	1	26.86
(2,51)	1:13:B:C5L:N4	1:24:B:DG:O6	9	26.79
(2,46)	1:13:B:C5L:N4	1:24:B:DG:O6	9	26.79
(2,51)	1:13:B:C5L:N4	1:24:B:DG:O6	2	26.76
(2,46)	1:13:B:C5L:N4	1:24:B:DG:O6	2	26.76
(2,50)	1:13:B:C5L:N3	1:24:B:DG:N1	4	26.71
(2,45)	1:13:B:C5L:N3	1:24:B:DG:N1	4	26.71
(2,51)	1:13:B:C5L:N4	1:24:B:DG:O6	8	26.67
(2,46)	1:13:B:C5L:N4	1:24:B:DG:O6	8	26.67
(2,42)	1:23:B:C5L:O2	1:14:B:G48:H21	2	26.64
(2,5)	1:14:B:G48:H21	1:23:B:C5L:O2	2	26.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,42)	1:23:B:C5L:O2	1:14:B:G48:H21	8	26.56
(2,5)	1:14:B:G48:H21	1:23:B:C5L:O2	8	26.56
(2,42)	1:23:B:C5L:O2	1:14:B:G48:H21	7	26.49
(2,5)	1:14:B:G48:H21	1:23:B:C5L:O2	7	26.49
(2,42)	1:23:B:C5L:O2	1:14:B:G48:H21	9	26.38
(2,5)	1:14:B:G48:H21	1:23:B:C5L:O2	9	26.38
(2,42)	1:23:B:C5L:O2	1:14:B:G48:H21	6	26.34
(2,5)	1:14:B:G48:H21	1:23:B:C5L:O2	6	26.34
(2,42)	1:23:B:C5L:O2	1:14:B:G48:H21	3	26.33
(2,5)	1:14:B:G48:H21	1:23:B:C5L:O2	3	26.33
(2,51)	1:13:B:C5L:N4	1:24:B:DG:O6	4	26.16
(2,46)	1:13:B:C5L:N4	1:24:B:DG:O6	4	26.16
(2,42)	1:23:B:C5L:O2	1:14:B:G48:H21	4	25.67
(2,5)	1:14:B:G48:H21	1:23:B:C5L:O2	4	25.67
(2,39)	1:23:B:C5L:N3	1:14:B:G48:H1	5	25.46
(2,3)	1:14:B:G48:H1	1:23:B:C5L:N3	5	25.46
(2,39)	1:23:B:C5L:N3	1:14:B:G48:H1	1	25.42
(2,3)	1:14:B:G48:H1	1:23:B:C5L:N3	1	25.42
(2,39)	1:23:B:C5L:N3	1:14:B:G48:H1	2	25.15
(2,3)	1:14:B:G48:H1	1:23:B:C5L:N3	2	25.15
(2,39)	1:23:B:C5L:N3	1:14:B:G48:H1	7	25.11
(2,3)	1:14:B:G48:H1	1:23:B:C5L:N3	7	25.11
(2,39)	1:23:B:C5L:N3	1:14:B:G48:H1	6	24.94
(2,3)	1:14:B:G48:H1	1:23:B:C5L:N3	6	24.94
(2,39)	1:23:B:C5L:N3	1:14:B:G48:H1	8	24.93
(2,3)	1:14:B:G48:H1	1:23:B:C5L:N3	8	24.93
(2,39)	1:23:B:C5L:N3	1:14:B:G48:H1	3	24.91
(2,3)	1:14:B:G48:H1	1:23:B:C5L:N3	3	24.91
(2,39)	1:23:B:C5L:N3	1:14:B:G48:H1	9	24.81
(2,3)	1:14:B:G48:H1	1:23:B:C5L:N3	9	24.81
(2,39)	1:23:B:C5L:N3	1:14:B:G48:H1	4	24.33
(2,3)	1:14:B:G48:H1	1:23:B:C5L:N3	4	24.33
(2,40)	1:23:B:C5L:N3	1:14:B:G48:N1	5	24.14
(2,4)	1:14:B:G48:N1	1:23:B:C5L:N3	5	24.14
(2,40)	1:23:B:C5L:N3	1:14:B:G48:N1	1	24.13
(2,4)	1:14:B:G48:N1	1:23:B:C5L:N3	1	24.13
(2,38)	1:23:B:C5L:H41	1:14:B:G48:O6	5	24.03
(2,1)	1:14:B:G48:O6	1:23:B:C5L:H41	5	24.03
(2,38)	1:23:B:C5L:H41	1:14:B:G48:O6	1	23.97
(2,1)	1:14:B:G48:O6	1:23:B:C5L:H41	1	23.97
(2,40)	1:23:B:C5L:N3	1:14:B:G48:N1	2	23.91
(2,4)	1:14:B:G48:N1	1:23:B:C5L:N3	2	23.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,40)	1:23:B:C5L:N3	1:14:B:G48:N1	7	23.86
(2,4)	1:14:B:G48:N1	1:23:B:C5L:N3	7	23.86
(2,40)	1:23:B:C5L:N3	1:14:B:G48:N1	6	23.68
(2,4)	1:14:B:G48:N1	1:23:B:C5L:N3	6	23.68
(2,40)	1:23:B:C5L:N3	1:14:B:G48:N1	3	23.67
(2,4)	1:14:B:G48:N1	1:23:B:C5L:N3	3	23.67
(2,40)	1:23:B:C5L:N3	1:14:B:G48:N1	8	23.64
(2,4)	1:14:B:G48:N1	1:23:B:C5L:N3	8	23.64
(2,38)	1:23:B:C5L:H41	1:14:B:G48:O6	7	23.62
(2,1)	1:14:B:G48:O6	1:23:B:C5L:H41	7	23.62
(2,38)	1:23:B:C5L:H41	1:14:B:G48:O6	2	23.57
(2,1)	1:14:B:G48:O6	1:23:B:C5L:H41	2	23.57
(2,38)	1:23:B:C5L:H41	1:14:B:G48:O6	6	23.5
(2,1)	1:14:B:G48:O6	1:23:B:C5L:H41	6	23.5
(2,40)	1:23:B:C5L:N3	1:14:B:G48:N1	9	23.47
(2,4)	1:14:B:G48:N1	1:23:B:C5L:N3	9	23.47
(2,38)	1:23:B:C5L:H41	1:14:B:G48:O6	3	23.46
(2,1)	1:14:B:G48:O6	1:23:B:C5L:H41	3	23.46
(2,41)	1:23:B:C5L:N4	1:14:B:G48:O6	5	23.32
(2,2)	1:14:B:G48:O6	1:23:B:C5L:N4	5	23.32
(2,41)	1:23:B:C5L:N4	1:14:B:G48:O6	1	23.31
(2,2)	1:14:B:G48:O6	1:23:B:C5L:N4	1	23.31
(2,38)	1:23:B:C5L:H41	1:14:B:G48:O6	8	23.17
(2,1)	1:14:B:G48:O6	1:23:B:C5L:H41	8	23.17
(2,41)	1:23:B:C5L:N4	1:14:B:G48:O6	7	23.08
(2,38)	1:23:B:C5L:H41	1:14:B:G48:O6	9	23.08
(2,2)	1:14:B:G48:O6	1:23:B:C5L:N4	7	23.08
(2,1)	1:14:B:G48:O6	1:23:B:C5L:H41	9	23.08
(2,41)	1:23:B:C5L:N4	1:14:B:G48:O6	2	23.02
(2,2)	1:14:B:G48:O6	1:23:B:C5L:N4	2	23.02
(2,40)	1:23:B:C5L:N3	1:14:B:G48:N1	4	22.95
(2,4)	1:14:B:G48:N1	1:23:B:C5L:N3	4	22.95
(2,41)	1:23:B:C5L:N4	1:14:B:G48:O6	6	22.89
(2,2)	1:14:B:G48:O6	1:23:B:C5L:N4	6	22.89
(2,41)	1:23:B:C5L:N4	1:14:B:G48:O6	3	22.85
(2,2)	1:14:B:G48:O6	1:23:B:C5L:N4	3	22.85
(2,38)	1:23:B:C5L:H41	1:14:B:G48:O6	4	22.8
(2,1)	1:14:B:G48:O6	1:23:B:C5L:H41	4	22.8
(2,41)	1:23:B:C5L:N4	1:14:B:G48:O6	8	22.6
(2,2)	1:14:B:G48:O6	1:23:B:C5L:N4	8	22.6
(2,41)	1:23:B:C5L:N4	1:14:B:G48:O6	9	22.46
(2,2)	1:14:B:G48:O6	1:23:B:C5L:N4	9	22.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	1	22.24
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	1	22.24
(2,41)	1:23:B:C5L:N4	1:14:B:G48:O6	4	22.23
(2,2)	1:14:B:G48:O6	1:23:B:C5L:N4	4	22.23
(2,37)	1:22:B:G48:H21	1:15:B:C5L:O2	1	22.09
(2,37)	1:22:B:G48:H21	1:15:B:C5L:O2	2	22.09
(2,10)	1:15:B:C5L:O2	1:22:B:G48:H21	1	22.09
(2,10)	1:15:B:C5L:O2	1:22:B:G48:H21	2	22.09
(2,37)	1:22:B:G48:H21	1:15:B:C5L:O2	8	22.03
(2,10)	1:15:B:C5L:O2	1:22:B:G48:H21	8	22.03
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	5	21.98
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	5	21.98
(2,37)	1:22:B:G48:H21	1:15:B:C5L:O2	9	21.92
(2,10)	1:15:B:C5L:O2	1:22:B:G48:H21	9	21.92
(2,37)	1:22:B:G48:H21	1:15:B:C5L:O2	5	21.85
(2,10)	1:15:B:C5L:O2	1:22:B:G48:H21	5	21.85
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	5	21.84
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	5	21.84
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	1	21.83
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	1	21.83
(2,37)	1:22:B:G48:H21	1:15:B:C5L:O2	6	21.72
(2,10)	1:15:B:C5L:O2	1:22:B:G48:H21	6	21.72
(2,37)	1:22:B:G48:H21	1:15:B:C5L:O2	7	21.56
(2,10)	1:15:B:C5L:O2	1:22:B:G48:H21	7	21.56
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	2	21.53
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	2	21.53
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	2	21.51
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	2	21.51
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	6	21.49
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	6	21.49
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	3	21.48
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	3	21.48
(2,37)	1:22:B:G48:H21	1:15:B:C5L:O2	3	21.44
(2,10)	1:15:B:C5L:O2	1:22:B:G48:H21	3	21.44
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	7	21.44
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	7	21.44
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	3	21.42
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	3	21.42
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	6	21.38
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	6	21.38
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	9	21.38
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	9	21.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	8	21.31
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	8	21.31
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	8	21.25
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	8	21.25
(2,37)	1:22:B:G48:H21	1:15:B:C5L:O2	4	21.17
(2,10)	1:15:B:C5L:O2	1:22:B:G48:H21	4	21.17
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	7	20.88
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	7	20.88
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	4	20.84
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	4	20.84
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	4	20.79
(1,162)	1:24:B:DG:H8	1:14:B:G48:H1	4	20.79
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	9	20.72
(1,158)	1:14:B:G48:H1	1:24:B:DG:H1'	9	20.72
(2,35)	1:22:B:G48:H1	1:15:B:C5L:N3	1	19.36
(2,7)	1:15:B:C5L:N3	1:22:B:G48:H1	1	19.36
(2,35)	1:22:B:G48:H1	1:15:B:C5L:N3	2	19.19
(2,7)	1:15:B:C5L:N3	1:22:B:G48:H1	2	19.19
(2,35)	1:22:B:G48:H1	1:15:B:C5L:N3	5	19.13
(2,7)	1:15:B:C5L:N3	1:22:B:G48:H1	5	19.13
(2,35)	1:22:B:G48:H1	1:15:B:C5L:N3	8	19.03
(2,7)	1:15:B:C5L:N3	1:22:B:G48:H1	8	19.03
(2,35)	1:22:B:G48:H1	1:15:B:C5L:N3	9	18.94
(2,7)	1:15:B:C5L:N3	1:22:B:G48:H1	9	18.94
(2,35)	1:22:B:G48:H1	1:15:B:C5L:N3	6	18.9
(2,7)	1:15:B:C5L:N3	1:22:B:G48:H1	6	18.9
(2,35)	1:22:B:G48:H1	1:15:B:C5L:N3	7	18.8
(2,7)	1:15:B:C5L:N3	1:22:B:G48:H1	7	18.8
(2,36)	1:22:B:G48:N1	1:15:B:C5L:N3	1	18.75
(2,8)	1:15:B:C5L:N3	1:22:B:G48:N1	1	18.75
(2,35)	1:22:B:G48:H1	1:15:B:C5L:N3	3	18.74
(2,7)	1:15:B:C5L:N3	1:22:B:G48:H1	3	18.74
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	1	18.72
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	1	18.72
(2,36)	1:22:B:G48:N1	1:15:B:C5L:N3	2	18.65
(2,8)	1:15:B:C5L:N3	1:22:B:G48:N1	2	18.65
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	7	18.62
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	7	18.62
(2,36)	1:22:B:G48:N1	1:15:B:C5L:N3	5	18.52
(2,8)	1:15:B:C5L:N3	1:22:B:G48:N1	5	18.52
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	2	18.51
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	2	18.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,33)	1:22:B:G48:O6	1:15:B:C5L:H41	1	18.47
(2,6)	1:15:B:C5L:H41	1:22:B:G48:O6	1	18.47
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	8	18.46
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	8	18.46
(2,36)	1:22:B:G48:N1	1:15:B:C5L:N3	8	18.45
(2,8)	1:15:B:C5L:N3	1:22:B:G48:N1	8	18.45
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	5	18.43
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	5	18.43
(2,36)	1:22:B:G48:N1	1:15:B:C5L:N3	9	18.35
(2,8)	1:15:B:C5L:N3	1:22:B:G48:N1	9	18.35
(2,36)	1:22:B:G48:N1	1:15:B:C5L:N3	6	18.34
(2,33)	1:22:B:G48:O6	1:15:B:C5L:H41	5	18.34
(2,8)	1:15:B:C5L:N3	1:22:B:G48:N1	6	18.34
(2,6)	1:15:B:C5L:H41	1:22:B:G48:O6	5	18.34
(2,36)	1:22:B:G48:N1	1:15:B:C5L:N3	7	18.33
(2,8)	1:15:B:C5L:N3	1:22:B:G48:N1	7	18.33
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	9	18.32
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	9	18.32
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	3	18.28
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	3	18.28
(2,35)	1:22:B:G48:H1	1:15:B:C5L:N3	4	18.24
(2,7)	1:15:B:C5L:N3	1:22:B:G48:H1	4	18.24
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	6	18.24
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	6	18.24
(2,36)	1:22:B:G48:N1	1:15:B:C5L:N3	3	18.22
(2,8)	1:15:B:C5L:N3	1:22:B:G48:N1	3	18.22
(2,33)	1:22:B:G48:O6	1:15:B:C5L:H41	2	18.1
(2,6)	1:15:B:C5L:H41	1:22:B:G48:O6	2	18.1
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	5	18.1
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	5	18.1
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	5	18.1
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	5	18.1
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	1	18.08
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	1	18.08
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	1	18.08
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	1	18.08
(2,33)	1:22:B:G48:O6	1:15:B:C5L:H41	7	18.06
(2,6)	1:15:B:C5L:H41	1:22:B:G48:O6	7	18.06
(2,33)	1:22:B:G48:O6	1:15:B:C5L:H41	6	18.01
(2,6)	1:15:B:C5L:H41	1:22:B:G48:O6	6	18.01
(2,33)	1:22:B:G48:O6	1:15:B:C5L:H41	3	17.99
(2,6)	1:15:B:C5L:H41	1:22:B:G48:O6	3	17.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	2	17.92
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	2	17.92
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	2	17.92
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	2	17.92
(2,33)	1:22:B:G48:O6	1:15:B:C5L:H41	8	17.88
(2,6)	1:15:B:C5L:H41	1:22:B:G48:O6	8	17.88
(2,33)	1:22:B:G48:O6	1:15:B:C5L:H41	9	17.81
(2,6)	1:15:B:C5L:H41	1:22:B:G48:O6	9	17.81
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	4	17.76
(1,163)	1:14:B:G48:H1	1:23:B:C5L:H1'	4	17.76
(2,36)	1:22:B:G48:N1	1:15:B:C5L:N3	4	17.75
(2,8)	1:15:B:C5L:N3	1:22:B:G48:N1	4	17.75
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	7	17.74
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	7	17.74
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	7	17.74
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	7	17.74
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	3	17.72
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	3	17.72
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	3	17.72
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	3	17.72
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	6	17.68
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	6	17.68
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	6	17.68
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	6	17.68
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	8	17.61
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	8	17.61
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	8	17.61
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	8	17.61
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	9	17.56
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	9	17.56
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	9	17.56
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	9	17.56
(2,33)	1:22:B:G48:O6	1:15:B:C5L:H41	4	17.38
(2,6)	1:15:B:C5L:H41	1:22:B:G48:O6	4	17.38
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	4	17.26
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H41	4	17.26
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	4	17.26
(1,157)	1:14:B:G48:H1	1:23:B:C5L:H42	4	17.26
(2,32)	1:21:B:C5L:O2	1:16:B:G48:H21	9	17.12
(2,15)	1:16:B:G48:H21	1:21:B:C5L:O2	9	17.12
(2,34)	1:22:B:G48:O6	1:15:B:C5L:N4	1	17.1
(2,9)	1:15:B:C5L:N4	1:22:B:G48:O6	1	17.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,32)	1:21:B:C5L:O2	1:16:B:G48:H21	2	17.03
(2,15)	1:16:B:G48:H21	1:21:B:C5L:O2	2	17.03
(2,34)	1:22:B:G48:O6	1:15:B:C5L:N4	5	16.98
(2,32)	1:21:B:C5L:O2	1:16:B:G48:H21	8	16.98
(2,15)	1:16:B:G48:H21	1:21:B:C5L:O2	8	16.98
(2,9)	1:15:B:C5L:N4	1:22:B:G48:O6	5	16.98
(2,32)	1:21:B:C5L:O2	1:16:B:G48:H21	7	16.89
(2,15)	1:16:B:G48:H21	1:21:B:C5L:O2	7	16.89
(2,32)	1:21:B:C5L:O2	1:16:B:G48:H21	4	16.88
(2,15)	1:16:B:G48:H21	1:21:B:C5L:O2	4	16.88
(2,34)	1:22:B:G48:O6	1:15:B:C5L:N4	2	16.82
(2,9)	1:15:B:C5L:N4	1:22:B:G48:O6	2	16.82
(2,34)	1:22:B:G48:O6	1:15:B:C5L:N4	7	16.77
(2,9)	1:15:B:C5L:N4	1:22:B:G48:O6	7	16.77
(2,32)	1:21:B:C5L:O2	1:16:B:G48:H21	6	16.74
(2,15)	1:16:B:G48:H21	1:21:B:C5L:O2	6	16.74
(2,32)	1:21:B:C5L:O2	1:16:B:G48:H21	1	16.72
(2,15)	1:16:B:G48:H21	1:21:B:C5L:O2	1	16.72
(2,34)	1:22:B:G48:O6	1:15:B:C5L:N4	6	16.69
(2,9)	1:15:B:C5L:N4	1:22:B:G48:O6	6	16.69
(2,34)	1:22:B:G48:O6	1:15:B:C5L:N4	3	16.68
(2,9)	1:15:B:C5L:N4	1:22:B:G48:O6	3	16.68
(2,32)	1:21:B:C5L:O2	1:16:B:G48:H21	3	16.61
(2,15)	1:16:B:G48:H21	1:21:B:C5L:O2	3	16.61
(2,32)	1:21:B:C5L:O2	1:16:B:G48:H21	5	16.59
(2,15)	1:16:B:G48:H21	1:21:B:C5L:O2	5	16.59
(2,34)	1:22:B:G48:O6	1:15:B:C5L:N4	8	16.56
(2,9)	1:15:B:C5L:N4	1:22:B:G48:O6	8	16.56
(2,34)	1:22:B:G48:O6	1:15:B:C5L:N4	9	16.39
(2,9)	1:15:B:C5L:N4	1:22:B:G48:O6	9	16.39
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	9	16.07
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	9	16.07
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	2	15.98
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	2	15.98
(2,34)	1:22:B:G48:O6	1:15:B:C5L:N4	4	15.97
(2,9)	1:15:B:C5L:N4	1:22:B:G48:O6	4	15.97
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	8	15.93
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	8	15.93
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	1	15.84
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	1	15.84
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	5	15.67
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	5	15.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	4	15.58
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	4	15.58
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	3	15.46
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	3	15.46
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	1	15.46
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	1	15.46
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	6	15.44
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	6	15.44
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	5	15.3
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	5	15.3
(2,29)	1:21:B:C5L:N3	1:16:B:G48:H1	9	15.28
(2,13)	1:16:B:G48:H1	1:21:B:C5L:N3	9	15.28
(2,29)	1:21:B:C5L:N3	1:16:B:G48:H1	2	15.25
(2,13)	1:16:B:G48:H1	1:21:B:C5L:N3	2	15.25
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	7	15.23
(1,167)	1:22:B:G48:H1	1:16:B:G48:H1'	7	15.23
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	2	15.19
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	2	15.19
(2,29)	1:21:B:C5L:N3	1:16:B:G48:H1	8	15.18
(2,13)	1:16:B:G48:H1	1:21:B:C5L:N3	8	15.18
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	2	15.18
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	2	15.18
(2,29)	1:21:B:C5L:N3	1:16:B:G48:H1	7	15.16
(2,13)	1:16:B:G48:H1	1:21:B:C5L:N3	7	15.16
(2,29)	1:21:B:C5L:N3	1:16:B:G48:H1	1	15.14
(2,13)	1:16:B:G48:H1	1:21:B:C5L:N3	1	15.14
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	7	15.12
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	7	15.12
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	8	15.07
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	8	15.07
(2,29)	1:21:B:C5L:N3	1:16:B:G48:H1	6	15.02
(2,13)	1:16:B:G48:H1	1:21:B:C5L:N3	6	15.02
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	1	15.02
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	1	15.02
(2,29)	1:21:B:C5L:N3	1:16:B:G48:H1	5	15.0
(2,13)	1:16:B:G48:H1	1:21:B:C5L:N3	5	15.0
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	6	15.0
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	6	15.0
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	9	14.99
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	9	14.99
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	8	14.96
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	8	14.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,29)	1:21:B:C5L:N3	1:16:B:G48:H1	4	14.94
(2,13)	1:16:B:G48:H1	1:21:B:C5L:N3	4	14.94
(2,29)	1:21:B:C5L:N3	1:16:B:G48:H1	3	14.93
(2,13)	1:16:B:G48:H1	1:21:B:C5L:N3	3	14.93
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	1	14.93
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	1	14.93
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	2	14.93
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	2	14.93
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	3	14.93
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	3	14.93
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	9	14.93
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	9	14.93
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	7	14.89
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	7	14.89
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	8	14.88
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	8	14.88
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	5	14.82
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	5	14.82
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	4	14.8
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	4	14.8
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	6	14.74
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	6	14.74
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	3	14.73
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	3	14.73
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	9	14.73
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	9	14.73
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	5	14.64
(1,172)	1:16:B:G48:H1	1:22:B:G48:H1'	5	14.64
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	6	14.62
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	6	14.62
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	7	14.51
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	7	14.51
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	3	14.48
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	3	14.48
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	4	14.41
(1,136)	1:14:B:G48:H1	1:22:B:G48:H1	4	14.41
(2,30)	1:21:B:C5L:N3	1:16:B:G48:N1	9	14.29
(2,14)	1:16:B:G48:N1	1:21:B:C5L:N3	9	14.29
(2,30)	1:21:B:C5L:N3	1:16:B:G48:N1	2	14.26
(2,14)	1:16:B:G48:N1	1:21:B:C5L:N3	2	14.26
(2,30)	1:21:B:C5L:N3	1:16:B:G48:N1	8	14.16
(2,14)	1:16:B:G48:N1	1:21:B:C5L:N3	8	14.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,30)	1:21:B:C5L:N3	1:16:B:G48:N1	7	14.11
(2,14)	1:16:B:G48:N1	1:21:B:C5L:N3	7	14.11
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	4	14.08
(1,168)	1:15:B:C5L:H1'	1:22:B:G48:H1	4	14.08
(2,30)	1:21:B:C5L:N3	1:16:B:G48:N1	1	14.07
(2,14)	1:16:B:G48:N1	1:21:B:C5L:N3	1	14.07
(2,30)	1:21:B:C5L:N3	1:16:B:G48:N1	4	13.96
(2,30)	1:21:B:C5L:N3	1:16:B:G48:N1	6	13.96
(2,14)	1:16:B:G48:N1	1:21:B:C5L:N3	4	13.96
(2,14)	1:16:B:G48:N1	1:21:B:C5L:N3	6	13.96
(2,30)	1:21:B:C5L:N3	1:16:B:G48:N1	5	13.93
(2,14)	1:16:B:G48:N1	1:21:B:C5L:N3	5	13.93
(2,30)	1:21:B:C5L:N3	1:16:B:G48:N1	3	13.91
(2,14)	1:16:B:G48:N1	1:21:B:C5L:N3	3	13.91
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	2	13.56
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	2	13.56
(2,28)	1:21:B:C5L:H41	1:16:B:G48:O6	1	13.25
(2,11)	1:16:B:G48:O6	1:21:B:C5L:H41	1	13.25
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	8	13.24
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	8	13.24
(2,28)	1:21:B:C5L:H41	1:16:B:G48:O6	2	13.22
(2,11)	1:16:B:G48:O6	1:21:B:C5L:H41	2	13.22
(2,28)	1:21:B:C5L:H41	1:16:B:G48:O6	3	13.2
(2,28)	1:21:B:C5L:H41	1:16:B:G48:O6	9	13.2
(2,11)	1:16:B:G48:O6	1:21:B:C5L:H41	3	13.2
(2,11)	1:16:B:G48:O6	1:21:B:C5L:H41	9	13.2
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	9	13.18
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	9	13.18
(2,28)	1:21:B:C5L:H41	1:16:B:G48:O6	5	13.17
(2,11)	1:16:B:G48:O6	1:21:B:C5L:H41	5	13.17
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	1	13.16
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	1	13.16
(2,28)	1:21:B:C5L:H41	1:16:B:G48:O6	7	13.11
(2,11)	1:16:B:G48:O6	1:21:B:C5L:H41	7	13.11
(2,28)	1:21:B:C5L:H41	1:16:B:G48:O6	8	13.09
(2,11)	1:16:B:G48:O6	1:21:B:C5L:H41	8	13.09
(2,28)	1:21:B:C5L:H41	1:16:B:G48:O6	6	13.03
(2,11)	1:16:B:G48:O6	1:21:B:C5L:H41	6	13.03
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	5	12.98
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	5	12.98
(2,28)	1:21:B:C5L:H41	1:16:B:G48:O6	4	12.82
(2,11)	1:16:B:G48:O6	1:21:B:C5L:H41	4	12.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	6	12.72
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	6	12.72
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	3	12.67
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	3	12.67
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	4	12.62
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	4	12.62
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	7	12.55
(1,170)	1:22:B:G48:H1	1:15:B:C5L:H2'	7	12.55
(2,31)	1:21:B:C5L:N4	1:16:B:G48:O6	1	12.45
(2,12)	1:16:B:G48:O6	1:21:B:C5L:N4	1	12.45
(2,31)	1:21:B:C5L:N4	1:16:B:G48:O6	3	12.41
(2,12)	1:16:B:G48:O6	1:21:B:C5L:N4	3	12.41
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	1	12.39
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	1	12.39
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	1	12.39
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	1	12.39
(2,31)	1:21:B:C5L:N4	1:16:B:G48:O6	2	12.38
(2,12)	1:16:B:G48:O6	1:21:B:C5L:N4	2	12.38
(2,31)	1:21:B:C5L:N4	1:16:B:G48:O6	9	12.33
(2,12)	1:16:B:G48:O6	1:21:B:C5L:N4	9	12.33
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	2	12.33
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	2	12.33
(2,31)	1:21:B:C5L:N4	1:16:B:G48:O6	5	12.32
(2,12)	1:16:B:G48:O6	1:21:B:C5L:N4	5	12.32
(2,31)	1:21:B:C5L:N4	1:16:B:G48:O6	7	12.29
(2,31)	1:21:B:C5L:N4	1:16:B:G48:O6	8	12.29
(2,12)	1:16:B:G48:O6	1:21:B:C5L:N4	7	12.29
(2,12)	1:16:B:G48:O6	1:21:B:C5L:N4	8	12.29
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	5	12.23
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	5	12.23
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	5	12.23
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	5	12.23
(2,31)	1:21:B:C5L:N4	1:16:B:G48:O6	6	12.21
(2,12)	1:16:B:G48:O6	1:21:B:C5L:N4	6	12.21
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	1	12.15
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	1	12.15
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	4	12.11
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	4	12.11
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	7	12.11
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	7	12.11
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	2	12.07
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	2	12.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	2	12.07
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	2	12.07
(2,31)	1:21:B:C5L:N4	1:16:B:G48:O6	4	12.06
(2,12)	1:16:B:G48:O6	1:21:B:C5L:N4	4	12.06
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	6	12.05
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	6	12.05
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	6	12.05
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	6	12.05
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	7	12.05
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	7	12.05
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	7	12.05
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	7	12.05
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	9	12.03
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	9	12.03
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	3	12.0
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	3	12.0
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	8	12.0
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	8	12.0
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	8	12.0
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	8	12.0
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	8	11.99
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	8	11.99
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	5	11.94
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	5	11.94
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	1	11.91
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	1	11.91
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	3	11.88
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	3	11.88
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	3	11.88
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	3	11.88
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	9	11.85
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	9	11.85
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	9	11.85
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	9	11.85
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	6	11.84
(1,180)	1:16:B:G48:H1	1:22:B:G48:H8	6	11.84
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	5	11.8
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	5	11.8
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	9	11.74
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	9	11.74
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	8	11.71
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	8	11.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	2	11.6
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	2	11.6
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	6	11.55
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	6	11.55
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	3	11.44
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	3	11.44
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	4	11.35
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H41	4	11.35
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	4	11.35
(1,166)	1:22:B:G48:H1	1:15:B:C5L:H42	4	11.35
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	4	11.3
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	4	11.3
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	7	11.27
(1,139)	1:22:B:G48:H1	1:16:B:G48:H1	7	11.27
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	2	11.17
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	2	11.17
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	9	11.02
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	9	11.02
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	8	10.93
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	8	10.93
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	1	10.91
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	1	10.91
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	5	10.73
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	5	10.73
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	3	10.53
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	3	10.53
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	6	10.52
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	6	10.52
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	4	10.47
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	4	10.47
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	7	10.32
(1,169)	1:16:B:G48:H8	1:22:B:G48:H1	7	10.32
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	2	10.12
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	2	10.12
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	7	9.99
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	7	9.99
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	9	9.85
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	9	9.85
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	1	9.73
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	1	9.73
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	1	9.73
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	1	9.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	8	9.73
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	8	9.73
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	9	9.68
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	9	9.68
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	9	9.68
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	9	9.68
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	4	9.68
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	4	9.68
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	2	9.67
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	2	9.67
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	2	9.67
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	2	9.67
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	1	9.64
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	1	9.64
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	2	9.64
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	2	9.64
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	3	9.63
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	3	9.63
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	3	9.63
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	3	9.63
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	5	9.61
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	5	9.61
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	5	9.61
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	5	9.61
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	8	9.59
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	8	9.59
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	8	9.59
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	8	9.59
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	6	9.58
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	6	9.58
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	5	9.52
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	5	9.52
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	6	9.49
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	6	9.49
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	6	9.49
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	6	9.49
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	4	9.45
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	4	9.45
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	4	9.45
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	4	9.45
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	7	9.45
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H41	7	9.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	7	9.45
(1,177)	1:16:B:G48:H1	1:21:B:C5L:H42	7	9.45
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	7	9.45
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	7	9.45
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	3	9.44
(1,176)	1:16:B:G48:H1	1:21:B:C5L:H1'	3	9.44
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	9	9.35
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	9	9.35
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	8	9.29
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	8	9.29
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	4	9.26
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	4	9.26
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	6	9.21
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	6	9.21
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	1	9.19
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	1	9.19
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	3	9.18
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	3	9.18
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	5	9.16
(1,36)	1:17:B:A44:H2	1:21:B:C5L:H1'	5	9.16
(2,25)	1:20:B:T39:H3	1:17:B:A44:N1	9	8.5
(2,17)	1:17:B:A44:N1	1:20:B:T39:H3	9	8.5
(2,25)	1:20:B:T39:H3	1:17:B:A44:N1	2	8.47
(2,17)	1:17:B:A44:N1	1:20:B:T39:H3	2	8.47
(2,25)	1:20:B:T39:H3	1:17:B:A44:N1	8	8.46
(2,17)	1:17:B:A44:N1	1:20:B:T39:H3	8	8.46
(2,25)	1:20:B:T39:H3	1:17:B:A44:N1	3	8.35
(2,17)	1:17:B:A44:N1	1:20:B:T39:H3	3	8.35
(2,25)	1:20:B:T39:H3	1:17:B:A44:N1	6	8.34
(2,17)	1:17:B:A44:N1	1:20:B:T39:H3	6	8.34
(2,25)	1:20:B:T39:H3	1:17:B:A44:N1	7	8.33
(2,17)	1:17:B:A44:N1	1:20:B:T39:H3	7	8.33
(2,25)	1:20:B:T39:H3	1:17:B:A44:N1	1	8.32
(2,17)	1:17:B:A44:N1	1:20:B:T39:H3	1	8.32
(2,25)	1:20:B:T39:H3	1:17:B:A44:N1	4	8.31
(2,25)	1:20:B:T39:H3	1:17:B:A44:N1	5	8.31
(2,17)	1:17:B:A44:N1	1:20:B:T39:H3	4	8.31
(2,17)	1:17:B:A44:N1	1:20:B:T39:H3	5	8.31
(2,26)	1:20:B:T39:N3	1:17:B:A44:N1	8	7.44
(2,18)	1:17:B:A44:N1	1:20:B:T39:N3	8	7.44
(2,26)	1:20:B:T39:N3	1:17:B:A44:N1	2	7.4
(2,26)	1:20:B:T39:N3	1:17:B:A44:N1	9	7.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,18)	1:17:B:A44:N1	1:20:B:T39:N3	2	7.4
(2,18)	1:17:B:A44:N1	1:20:B:T39:N3	9	7.4
(2,26)	1:20:B:T39:N3	1:17:B:A44:N1	3	7.35
(2,18)	1:17:B:A44:N1	1:20:B:T39:N3	3	7.35
(2,26)	1:20:B:T39:N3	1:17:B:A44:N1	6	7.32
(2,18)	1:17:B:A44:N1	1:20:B:T39:N3	6	7.32
(2,26)	1:20:B:T39:N3	1:17:B:A44:N1	1	7.29
(2,26)	1:20:B:T39:N3	1:17:B:A44:N1	5	7.29
(2,18)	1:17:B:A44:N1	1:20:B:T39:N3	1	7.29
(2,18)	1:17:B:A44:N1	1:20:B:T39:N3	5	7.29
(2,26)	1:20:B:T39:N3	1:17:B:A44:N1	4	7.26
(2,26)	1:20:B:T39:N3	1:17:B:A44:N1	7	7.26
(2,18)	1:17:B:A44:N1	1:20:B:T39:N3	4	7.26
(2,18)	1:17:B:A44:N1	1:20:B:T39:N3	7	7.26
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	3	7.01
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	3	7.01
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	2	7.0
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	2	7.0
(2,27)	1:20:B:T39:O4	1:17:B:A44:H61	3	6.93
(2,16)	1:17:B:A44:H61	1:20:B:T39:O4	3	6.93
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	1	6.92
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	1	6.92
(2,27)	1:20:B:T39:O4	1:17:B:A44:H61	5	6.9
(2,16)	1:17:B:A44:H61	1:20:B:T39:O4	5	6.9
(2,27)	1:20:B:T39:O4	1:17:B:A44:H61	8	6.89
(2,16)	1:17:B:A44:H61	1:20:B:T39:O4	8	6.89
(2,27)	1:20:B:T39:O4	1:17:B:A44:H61	6	6.88
(2,16)	1:17:B:A44:H61	1:20:B:T39:O4	6	6.88
(2,27)	1:20:B:T39:O4	1:17:B:A44:H61	1	6.85
(2,16)	1:17:B:A44:H61	1:20:B:T39:O4	1	6.85
(2,27)	1:20:B:T39:O4	1:17:B:A44:H61	7	6.82
(2,16)	1:17:B:A44:H61	1:20:B:T39:O4	7	6.82
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	4	6.81
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	4	6.81
(2,27)	1:20:B:T39:O4	1:17:B:A44:H61	9	6.8
(2,16)	1:17:B:A44:H61	1:20:B:T39:O4	9	6.8
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	5	6.8
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	5	6.8
(2,27)	1:20:B:T39:O4	1:17:B:A44:H61	2	6.78
(2,16)	1:17:B:A44:H61	1:20:B:T39:O4	2	6.78
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	9	6.77
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	9	6.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,27)	1:20:B:T39:O4	1:17:B:A44:H61	4	6.76
(2,16)	1:17:B:A44:H61	1:20:B:T39:O4	4	6.76
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	8	6.76
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	8	6.76
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	2	6.75
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	2	6.75
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	9	6.73
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	9	6.73
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	6	6.7
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	6	6.7
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	8	6.68
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	8	6.68
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	4	6.59
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	4	6.59
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	3	6.57
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	3	6.57
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	6	6.57
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	6	6.57
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	5	6.55
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	5	6.55
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	7	6.54
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	7	6.54
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	1	6.53
(1,148)	1:20:B:T39:H3	1:17:B:A44:H2	1	6.53
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	7	6.52
(1,183)	1:17:B:A44:H2	1:21:B:C5L:H42	7	6.52
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	9	6.34
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	9	6.34
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	8	6.29
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	8	6.29
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	2	6.17
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	2	6.17
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	1	6.16
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	1	6.16
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	6	6.12
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	6	6.12
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	7	6.11
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	7	6.11
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	4	6.1
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	4	6.1
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	5	6.09
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	5	6.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	3	6.01
(1,138)	1:20:B:T39:H3	1:16:B:G48:H1	3	6.01
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	2	4.69
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	2	4.69
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	3	4.65
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	3	4.65
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	9	4.62
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	9	4.62
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	1	4.58
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	1	4.58
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	5	4.58
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	5	4.58
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	7	4.5
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	7	4.5
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	8	4.48
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	8	4.48
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	6	4.44
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	6	4.44
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	4	4.42
(1,182)	1:17:B:A44:H62	1:21:B:C5L:H41	4	4.42
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	8	4.23
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	8	4.23
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	8	4.23
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	8	4.23
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	8	4.23
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	8	4.23
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	3	4.2
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	3	4.2
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	3	4.2
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	3	4.2
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	3	4.2
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	3	4.2
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	2	4.18
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	2	4.18
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	2	4.18
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	2	4.18
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	2	4.18
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	2	4.18
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	6	4.15
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	6	4.15
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	6	4.15
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	6	4.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	6	4.15
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	6	4.15
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	5	4.14
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	5	4.14
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	5	4.14
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	5	4.14
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	5	4.14
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	5	4.14
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	9	4.13
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	9	4.13
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	9	4.13
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	9	4.13
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	9	4.13
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	9	4.13
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	1	4.11
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	1	4.11
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	1	4.11
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	1	4.11
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	1	4.11
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	1	4.11
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	4	4.07
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	4	4.07
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	4	4.07
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	4	4.07
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	4	4.07
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	4	4.07
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	8	4.02
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	8	4.02
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	8	4.02
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	8	4.02
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	9	4.01
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	9	4.01
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	9	4.01
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	9	4.01
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	7	3.96
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	7	3.96
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	7	3.96
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H71	7	3.96
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H72	7	3.96
(1,37)	1:17:B:A44:H2	1:21:B:C5L:H73	7	3.96
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	2	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	2	3.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	2	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	2	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	3	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	3	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	3	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	3	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	7	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	7	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	7	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	7	3.94
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	6	3.93
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	6	3.93
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	6	3.93
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	6	3.93
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	1	3.92
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	1	3.92
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	1	3.92
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	1	3.92
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	5	3.89
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	5	3.89
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	5	3.89
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	5	3.89
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	4	3.88
(1,149)	1:20:B:T39:H3	1:17:B:A44:H61	4	3.88
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	4	3.88
(1,149)	1:20:B:T39:H3	1:17:B:A44:H62	4	3.88
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	6	3.36
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	6	3.36
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	5	3.34
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	5	3.34
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	9	3.33
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	9	3.33
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	8	3.33
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	8	3.33
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	7	3.32
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	7	3.32
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	3	3.31
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	3	3.31
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	7	3.3
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	7	3.3
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	2	3.29
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	2	3.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	2	3.28
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	2	3.28
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	1	3.23
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	1	3.23
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	9	3.19
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	9	3.19
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	4	3.18
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	4	3.18
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	5	3.18
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	5	3.18
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	8	3.17
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	8	3.17
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	4	3.17
(1,150)	1:20:B:T39:H3	1:18:B:A44:H2	4	3.17
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	3	3.16
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	3	3.16
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	6	3.16
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	6	3.16
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	1	3.14
(1,151)	1:20:B:T39:H3	1:18:B:A44:H1'	1	3.14
(2,22)	1:19:B:T39:H3	1:18:B:A44:N1	8	2.2
(2,20)	1:18:B:A44:N1	1:19:B:T39:H3	8	2.2
(2,22)	1:19:B:T39:H3	1:18:B:A44:N1	6	2.19
(2,20)	1:18:B:A44:N1	1:19:B:T39:H3	6	2.19
(2,22)	1:19:B:T39:H3	1:18:B:A44:N1	3	2.17
(2,20)	1:18:B:A44:N1	1:19:B:T39:H3	3	2.17
(2,22)	1:19:B:T39:H3	1:18:B:A44:N1	5	2.16
(2,20)	1:18:B:A44:N1	1:19:B:T39:H3	5	2.16
(2,22)	1:19:B:T39:H3	1:18:B:A44:N1	1	2.1
(2,20)	1:18:B:A44:N1	1:19:B:T39:H3	1	2.1
(2,22)	1:19:B:T39:H3	1:18:B:A44:N1	7	2.07
(2,20)	1:18:B:A44:N1	1:19:B:T39:H3	7	2.07
(2,22)	1:19:B:T39:H3	1:18:B:A44:N1	2	2.04
(2,22)	1:19:B:T39:H3	1:18:B:A44:N1	4	2.04
(2,20)	1:18:B:A44:N1	1:19:B:T39:H3	2	2.04
(2,20)	1:18:B:A44:N1	1:19:B:T39:H3	4	2.04
(2,22)	1:19:B:T39:H3	1:18:B:A44:N1	9	2.0
(2,20)	1:18:B:A44:N1	1:19:B:T39:H3	9	2.0
(2,24)	1:19:B:T39:O4	1:18:B:A44:H61	3	1.87
(2,19)	1:18:B:A44:H61	1:19:B:T39:O4	3	1.87
(2,24)	1:19:B:T39:O4	1:18:B:A44:H61	5	1.85
(2,24)	1:19:B:T39:O4	1:18:B:A44:H61	6	1.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,19)	1:18:B:A44:H61	1:19:B:T39:O4	5	1.85
(2,19)	1:18:B:A44:H61	1:19:B:T39:O4	6	1.85
(2,24)	1:19:B:T39:O4	1:18:B:A44:H61	1	1.82
(2,24)	1:19:B:T39:O4	1:18:B:A44:H61	8	1.82
(2,19)	1:18:B:A44:H61	1:19:B:T39:O4	1	1.82
(2,19)	1:18:B:A44:H61	1:19:B:T39:O4	8	1.82
(2,24)	1:19:B:T39:O4	1:18:B:A44:H61	7	1.79
(2,19)	1:18:B:A44:H61	1:19:B:T39:O4	7	1.79
(2,24)	1:19:B:T39:O4	1:18:B:A44:H61	4	1.78
(2,19)	1:18:B:A44:H61	1:19:B:T39:O4	4	1.78
(2,24)	1:19:B:T39:O4	1:18:B:A44:H61	9	1.73
(2,19)	1:18:B:A44:H61	1:19:B:T39:O4	9	1.73
(2,24)	1:19:B:T39:O4	1:18:B:A44:H61	2	1.71
(2,19)	1:18:B:A44:H61	1:19:B:T39:O4	2	1.71
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	2	1.57
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	2	1.57
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	8	1.56
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	8	1.56
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	9	1.54
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	9	1.54
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	3	1.46
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	3	1.46
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	4	1.45
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	4	1.45
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	6	1.44
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	6	1.44
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	5	1.42
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	5	1.42
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	1	1.4
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	1	1.4
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	7	1.32
(1,140)	1:19:B:T39:H3	1:17:B:A44:H2	7	1.32
(2,23)	1:19:B:T39:N3	1:18:B:A44:N1	8	1.04
(2,21)	1:18:B:A44:N1	1:19:B:T39:N3	8	1.04
(2,23)	1:19:B:T39:N3	1:18:B:A44:N1	6	1.03
(2,21)	1:18:B:A44:N1	1:19:B:T39:N3	6	1.03
(2,23)	1:19:B:T39:N3	1:18:B:A44:N1	3	1.01
(2,21)	1:18:B:A44:N1	1:19:B:T39:N3	3	1.01
(2,23)	1:19:B:T39:N3	1:18:B:A44:N1	5	0.99
(2,21)	1:18:B:A44:N1	1:19:B:T39:N3	5	0.99
(2,23)	1:19:B:T39:N3	1:18:B:A44:N1	1	0.94
(2,21)	1:18:B:A44:N1	1:19:B:T39:N3	1	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,23)	1:19:B:T39:N3	1:18:B:A44:N1	7	0.88
(2,21)	1:18:B:A44:N1	1:19:B:T39:N3	7	0.88
(2,23)	1:19:B:T39:N3	1:18:B:A44:N1	4	0.86
(2,21)	1:18:B:A44:N1	1:19:B:T39:N3	4	0.86
(2,23)	1:19:B:T39:N3	1:18:B:A44:N1	2	0.85
(2,21)	1:18:B:A44:N1	1:19:B:T39:N3	2	0.85
(2,23)	1:19:B:T39:N3	1:18:B:A44:N1	9	0.79
(2,21)	1:18:B:A44:N1	1:19:B:T39:N3	9	0.79
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H71	5	0.69
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H72	5	0.69
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H73	5	0.69
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H71	5	0.69
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H72	5	0.69
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H73	5	0.69
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	7	0.63
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	7	0.63
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	7	0.63
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	7	0.63
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	7	0.63
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	7	0.63
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	5	0.62
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	5	0.62
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	5	0.62
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	5	0.62
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	5	0.62
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	5	0.62
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	6	0.62
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	6	0.62
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	6	0.62
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	6	0.62
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	6	0.62
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	6	0.62
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	1	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	1	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	1	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	1	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	1	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	1	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	3	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	3	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	3	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	3	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	3	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	3	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	8	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	8	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	8	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	8	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	8	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	8	0.61
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	2	0.6
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	2	0.6
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	2	0.6
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	2	0.6
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	2	0.6
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	2	0.6
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	4	0.56
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	4	0.56
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	4	0.56
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	4	0.56
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	4	0.56
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	4	0.56
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H71	6	0.52
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H72	6	0.52
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H73	6	0.52
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H71	6	0.52
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H72	6	0.52
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H73	6	0.52
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	9	0.49
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	9	0.49
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	9	0.49
(1,56)	1:18:B:A44:H8	1:19:B:T39:H73	9	0.49
(1,56)	1:18:B:A44:H8	1:19:B:T39:H71	9	0.49
(1,56)	1:18:B:A44:H8	1:19:B:T39:H72	9	0.49
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	7	0.46
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	7	0.46
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	7	0.46
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	7	0.46
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	7	0.46
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	7	0.46
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	2	0.43
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	2	0.43
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	2	0.43
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	2	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	2	0.43
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	2	0.43
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H71	2	0.43
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H72	2	0.43
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H73	2	0.43
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H71	2	0.43
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H72	2	0.43
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H73	2	0.43
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	2	0.42
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	2	0.42
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	2	0.42
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	2	0.42
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	2	0.42
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	2	0.42
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	6	0.41
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	6	0.41
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	6	0.41
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	6	0.41
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	4	0.41
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	4	0.41
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	4	0.41
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	4	0.41
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	4	0.41
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	4	0.41
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	3	0.4
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	3	0.4
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	3	0.4
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	3	0.4
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	3	0.4
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	3	0.4
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	9	0.4
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	9	0.4
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	9	0.4
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	9	0.4
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	9	0.4
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	9	0.4
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	1	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	1	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	1	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	1	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	1	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	1	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	5	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	5	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	5	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	5	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	5	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	5	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	7	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	7	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	7	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	7	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	7	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	7	0.39
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	6	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	6	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	6	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	6	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	6	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	6	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	8	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	8	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	8	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	8	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	8	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	8	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	9	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	9	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	9	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H71	9	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H72	9	0.38
(1,88)	1:21:B:C5L:H6	1:21:B:C5L:H73	9	0.38
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H71	7	0.38
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H72	7	0.38
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H73	7	0.38
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H71	7	0.38
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H72	7	0.38
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H73	7	0.38
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	8	0.37
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	8	0.37
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	8	0.37
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	8	0.37
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	8	0.37
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	8	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	7	0.36
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	7	0.36
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	7	0.36
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	7	0.36
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	7	0.36
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	7	0.36
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	7	0.36
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	7	0.36
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	7	0.36
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	7	0.36
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	7	0.36
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	7	0.36
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	7	0.36
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	7	0.36
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	7	0.36
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	7	0.36
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	7	0.36
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	7	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	3	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	3	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	3	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	3	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	3	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	3	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	5	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	5	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	5	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	5	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	5	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	5	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	6	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	6	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	6	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	6	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	6	0.36
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	6	0.36
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	9	0.35
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	9	0.35
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	9	0.35
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	9	0.35
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	9	0.35
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	9	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	5	0.33
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	5	0.33
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	5	0.33
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	5	0.33
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	9	0.33
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	9	0.33
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	9	0.33
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	9	0.33
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	1	0.33
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	1	0.33
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	1	0.33
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	1	0.33
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	1	0.33
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	1	0.33
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	4	0.33
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	4	0.33
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	4	0.33
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H71	4	0.33
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H72	4	0.33
(1,80)	1:20:B:T39:H6	1:21:B:C5L:H73	4	0.33
(1,7)	1:13:B:C5L:H6	1:14:B:G48:H8	5	0.32
(1,7)	1:13:B:C5L:H6	1:14:B:G48:H8	5	0.32
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	7	0.31
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	7	0.31
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	7	0.31
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	7	0.31
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	2	0.31
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	2	0.31
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	2	0.31
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	2	0.31
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	2	0.31
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	2	0.31
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	2	0.31
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	2	0.31
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	2	0.31
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	2	0.31
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	2	0.31
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	2	0.31
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	2	0.31
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	2	0.31
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	2	0.31
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	2	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	2	0.31
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	2	0.31
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	3	0.3
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	3	0.3
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	3	0.3
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	3	0.3
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	6	0.3
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	6	0.3
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	6	0.3
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	6	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	1	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	1	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	1	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	1	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	2	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	2	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	2	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	2	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	5	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	5	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	5	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	5	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	8	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	8	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	8	0.3
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	8	0.3
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	5	0.3
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	5	0.3
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	5	0.3
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	5	0.3
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	5	0.3
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	5	0.3
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	5	0.3
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	5	0.3
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	5	0.3
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	5	0.3
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	5	0.3
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	5	0.3
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	5	0.3
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	5	0.3
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	5	0.3
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	5	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	5	0.3
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	5	0.3
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	4	0.3
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	4	0.3
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	4	0.3
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	4	0.3
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	4	0.3
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	4	0.3
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	3	0.29
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	3	0.29
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	3	0.29
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	3	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	6	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	6	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	6	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	6	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	6	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	6	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	6	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	6	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	6	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	6	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	6	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	6	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	6	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	6	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	6	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	6	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	6	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	6	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	9	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	9	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	9	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	9	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	9	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	9	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	9	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	9	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	9	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	9	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	9	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	9	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	9	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	9	0.29
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	9	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	9	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	9	0.29
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	9	0.29
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	1	0.28
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	1	0.28
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	1	0.28
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	1	0.28
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	1	0.28
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	1	0.28
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	1	0.28
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	1	0.28
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	1	0.28
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	1	0.28
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	1	0.28
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	1	0.28
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	1	0.28
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	1	0.28
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	1	0.28
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	1	0.28
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	1	0.28
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	1	0.28
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	3	0.28
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	3	0.28
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	3	0.28
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	3	0.28
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	3	0.28
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	3	0.28
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	3	0.28
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	3	0.28
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	3	0.28
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	3	0.28
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	3	0.28
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	3	0.28
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	3	0.28
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	3	0.28
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	3	0.28
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	3	0.28
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	3	0.28
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	7	0.28
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	7	0.28
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	7	0.28
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	7	0.28
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	7	0.28
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	7	0.28
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	2	0.28
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	2	0.28
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	2	0.28
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	2	0.28
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	2	0.28
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	2	0.28
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	8	0.27
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	8	0.27
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	8	0.27
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	8	0.27
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	8	0.27
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	8	0.27
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	8	0.27
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	8	0.27
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	8	0.27
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	8	0.27
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	8	0.27
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	8	0.27
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	8	0.27
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	8	0.27
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	8	0.27
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	8	0.27
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	8	0.27
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	8	0.27
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	8	0.27
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	8	0.27
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	1	0.27
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	1	0.27
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	5	0.27
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	5	0.27
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	5	0.27
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	5	0.27
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	5	0.27
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	5	0.27
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	7	0.27
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	7	0.27
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	7	0.27
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	7	0.27
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	7	0.27
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	5	0.26
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	5	0.26
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	5	0.26
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	5	0.26
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	4	0.26
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	4	0.26
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	5	0.26
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	5	0.26
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	4	0.25
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	4	0.25
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	4	0.25
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	4	0.25
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	4	0.25
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	4	0.25
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	4	0.25
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	4	0.25
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	4	0.25
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H71	4	0.25
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H72	4	0.25
(1,89)	1:21:B:C5L:H71	1:20:B:T39:H73	4	0.25
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H71	4	0.25
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H72	4	0.25
(1,89)	1:21:B:C5L:H72	1:20:B:T39:H73	4	0.25
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H71	4	0.25
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H72	4	0.25
(1,89)	1:21:B:C5L:H73	1:20:B:T39:H73	4	0.25
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	2	0.25
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	2	0.25
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	2	0.25
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	2	0.25
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	2	0.25
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	2	0.25
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	9	0.25
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	9	0.25
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	9	0.25
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	9	0.25
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	9	0.25
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	1	0.24
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	1	0.24
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	1	0.24
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	1	0.24
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	7	0.24
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	7	0.24
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	7	0.24
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	7	0.24
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	1	0.24
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	1	0.24
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	1	0.24
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	1	0.24
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	8	0.24
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	8	0.24
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	8	0.24
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	8	0.24
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	1	0.24
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	1	0.24
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	3	0.24
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	3	0.24
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	6	0.24
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	6	0.24
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	8	0.24
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	8	0.24
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	9	0.24
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	9	0.24
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	4	0.24
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	4	0.24
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	4	0.24
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	4	0.24
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	4	0.24
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	4	0.24
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	5	0.24
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	5	0.24
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	5	0.24
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	5	0.24
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	5	0.24
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	5	0.24
(1,2)	1:13:B:C5L:H2'	1:14:B:G48:H8	9	0.24
(1,2)	1:13:B:C5L:H2'	1:14:B:G48:H8	9	0.24
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	1	0.23
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	1	0.23
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	1	0.23
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	1	0.23
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	1	0.23
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	3	0.23
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	3	0.23
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	3	0.23
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	3	0.23
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	3	0.23
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	3	0.23
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	6	0.23
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	6	0.23
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	6	0.23
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	6	0.23
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	6	0.23
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	6	0.23
(1,50)	1:18:B:A44:H3'	1:19:B:T39:H6	9	0.23
(1,50)	1:18:B:A44:H3'	1:19:B:T39:H6	9	0.23
(1,2)	1:13:B:C5L:H2'	1:14:B:G48:H8	1	0.23
(1,2)	1:13:B:C5L:H2'	1:14:B:G48:H8	1	0.23
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	3	0.22
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	3	0.22
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	6	0.22
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	6	0.22
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	9	0.22
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	9	0.22
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	9	0.22
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	9	0.22
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA1	7	0.22
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA2	7	0.22
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA1	7	0.22
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA2	7	0.22
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA1	8	0.22
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA2	8	0.22
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA1	8	0.22
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA2	8	0.22
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	2	0.22
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	2	0.22
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	5	0.22
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	5	0.22
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	2	0.22
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	2	0.22
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	2	0.22
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	2	0.22
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	2	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	3	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	3	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	3	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	3	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	3	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	3	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	5	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	5	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	5	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	5	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	5	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	5	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	6	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	6	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	6	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	6	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	6	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	6	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	7	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	7	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	7	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	7	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	7	0.22
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	7	0.22
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	1	0.22
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	1	0.22
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	1	0.22
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	1	0.22
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	1	0.22
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	1	0.22
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	8	0.22
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	8	0.22
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	8	0.22
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H73	8	0.22
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H71	8	0.22
(1,51)	1:18:B:A44:H3'	1:19:B:T39:H72	8	0.22
(1,7)	1:13:B:C5L:H6	1:14:B:G48:H8	6	0.22
(1,7)	1:13:B:C5L:H6	1:14:B:G48:H8	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA1	2	0.21
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA2	2	0.21
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA1	2	0.21
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA2	2	0.21
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA1	9	0.21
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA2	9	0.21
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA1	9	0.21
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA2	9	0.21
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	6	0.21
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	6	0.21
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	8	0.21
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	8	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	8	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	8	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	8	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	8	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	8	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	8	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	9	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	9	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	9	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	9	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	9	0.21
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	9	0.21
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	8	0.21
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	8	0.21
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	8	0.21
(1,65)	1:19:B:T39:H6	1:19:B:T39:H73	8	0.21
(1,65)	1:19:B:T39:H6	1:19:B:T39:H71	8	0.21
(1,65)	1:19:B:T39:H6	1:19:B:T39:H72	8	0.21
(1,50)	1:18:B:A44:H3'	1:19:B:T39:H6	4	0.21
(1,50)	1:18:B:A44:H3'	1:19:B:T39:H6	4	0.21
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H71	4	0.21
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H72	4	0.21
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H73	4	0.21
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H71	4	0.21
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H72	4	0.21
(1,17)	1:14:B:G48:H8	1:13:B:C5L:H73	4	0.21
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	3	0.2
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	3	0.2
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	3	0.2
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	4	0.2
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	4	0.2
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA2	4	0.2
(1,113)	1:14:B:G48:H1'	1:14:B:G48:HCA1	4	0.2
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	5	0.2
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	5	0.2
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	5	0.2
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	5	0.2
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	5	0.2
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	5	0.2
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	7	0.2
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	7	0.2
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	7	0.2
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	7	0.2
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	7	0.2
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	7	0.2
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	3	0.2
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	3	0.2
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	9	0.2
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	9	0.2
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	4	0.2
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	4	0.2
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	4	0.2
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	4	0.2
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	4	0.2
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	4	0.2
(1,76)	1:20:B:T39:H3'	1:21:B:C5L:H6	2	0.2
(1,76)	1:20:B:T39:H3'	1:21:B:C5L:H6	2	0.2
(1,5)	1:13:B:C5L:H6	1:13:B:C5L:H3'	2	0.2
(1,5)	1:13:B:C5L:H6	1:13:B:C5L:H3'	2	0.2
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	5	0.19
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	5	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	1	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	1	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	1	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	1	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	1	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	1	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	2	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	2	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	2	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	2	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	2	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	6	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	6	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	6	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	6	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	6	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	6	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	8	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	8	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	8	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	8	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	8	0.19
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	8	0.19
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H71	8	0.19
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H72	8	0.19
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H73	8	0.19
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H71	8	0.19
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H72	8	0.19
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H73	8	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	3	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	3	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	3	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	3	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	3	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	3	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	5	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	5	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	5	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	5	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	5	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	5	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	6	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	6	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	6	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	6	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	6	0.19
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	6	0.19
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	1	0.18
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	1	0.18
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	4	0.18
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	4	0.18
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	4	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	3	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	3	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	3	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	3	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	3	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	3	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	4	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	4	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	4	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	4	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	4	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	4	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	9	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	9	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	9	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H71	9	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H72	9	0.18
(1,108)	1:23:B:C5L:H6	1:23:B:C5L:H73	9	0.18
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H71	6	0.18
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H72	6	0.18
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H73	6	0.18
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H71	6	0.18
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H72	6	0.18
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H73	6	0.18
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	1	0.18
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	1	0.18
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	1	0.18
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	1	0.18
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	1	0.18
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	1	0.18
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	7	0.18
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	7	0.18
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	7	0.18
(1,79)	1:20:B:T39:H6	1:20:B:T39:H71	7	0.18
(1,79)	1:20:B:T39:H6	1:20:B:T39:H72	7	0.18
(1,79)	1:20:B:T39:H6	1:20:B:T39:H73	7	0.18
(1,61)	1:19:B:T39:H3'	1:20:B:T39:H71	2	0.18
(1,61)	1:19:B:T39:H3'	1:20:B:T39:H72	2	0.18
(1,61)	1:19:B:T39:H3'	1:20:B:T39:H73	2	0.18
(1,61)	1:19:B:T39:H3'	1:20:B:T39:H71	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,61)	1:19:B:T39:H3'	1:20:B:T39:H72	2	0.18
(1,61)	1:19:B:T39:H3'	1:20:B:T39:H73	2	0.18
(1,109)	1:24:B:DG:H8	1:23:B:C5L:H2'	9	0.17
(1,109)	1:24:B:DG:H8	1:23:B:C5L:H2'	9	0.17
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	3	0.17
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	3	0.17
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	3	0.17
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	3	0.17
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	3	0.17
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	3	0.17
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	4	0.17
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	4	0.17
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	4	0.17
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	4	0.17
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	4	0.17
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	4	0.17
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	6	0.17
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	6	0.17
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	6	0.17
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	6	0.17
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	6	0.17
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	6	0.17
(1,7)	1:13:B:C5L:H6	1:14:B:G48:H8	7	0.17
(1,7)	1:13:B:C5L:H6	1:14:B:G48:H8	7	0.17
(1,5)	1:13:B:C5L:H6	1:13:B:C5L:H3'	7	0.17
(1,5)	1:13:B:C5L:H6	1:13:B:C5L:H3'	7	0.17
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	2	0.16
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	2	0.16
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	2	0.16
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	2	0.16
(1,109)	1:24:B:DG:H8	1:23:B:C5L:H2'	1	0.16
(1,109)	1:24:B:DG:H8	1:23:B:C5L:H2'	1	0.16
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	4	0.16
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	4	0.16
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	2	0.16
(1,84)	1:21:B:C5L:H6	1:20:B:T39:H7	2	0.16
(1,78)	1:20:B:T39:H6	1:19:B:T39:H7	2	0.16
(1,78)	1:20:B:T39:H6	1:19:B:T39:H7	2	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	2	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	2	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	2	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	2	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	2	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	7	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	7	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	7	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	7	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	7	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	7	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	8	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	8	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	8	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	8	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	8	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	8	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	9	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	9	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	9	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	9	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	9	0.16
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	9	0.16
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	6	0.15
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	6	0.15
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	6	0.15
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	6	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	1	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	1	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	1	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	1	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	1	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	1	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	5	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	5	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	5	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	5	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	5	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	5	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	6	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	6	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	6	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H71	6	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H72	6	0.15
(1,22)	1:15:B:C5L:H6	1:15:B:C5L:H73	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	1	0.15
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	1	0.15
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	1	0.15
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	1	0.15
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	1	0.15
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	1	0.15
(1,7)	1:13:B:C5L:H6	1:14:B:G48:H8	2	0.15
(1,7)	1:13:B:C5L:H6	1:14:B:G48:H8	2	0.15
(1,5)	1:13:B:C5L:H6	1:13:B:C5L:H3'	1	0.15
(1,5)	1:13:B:C5L:H6	1:13:B:C5L:H3'	1	0.15
(1,5)	1:13:B:C5L:H6	1:13:B:C5L:H3'	3	0.15
(1,5)	1:13:B:C5L:H6	1:13:B:C5L:H3'	3	0.15
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	2	0.14
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	2	0.14
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA2	2	0.14
(1,115)	1:16:B:G48:H1'	1:16:B:G48:HCA1	2	0.14
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	7	0.14
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	7	0.14
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA1	7	0.14
(1,112)	1:13:B:C5L:H1'	1:13:B:C5L:HCA2	7	0.14
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	7	0.14
(1,105)	1:23:B:C5L:H6	1:22:B:G48:H2'	7	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H71	1	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H72	1	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H73	1	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H71	1	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H72	1	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H73	1	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H71	8	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H72	8	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H73	8	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H71	8	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H72	8	0.14
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H73	8	0.14
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	7	0.13
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	7	0.13
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA1	3	0.13
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA2	3	0.13
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA1	3	0.13
(1,114)	1:15:B:C5L:H1'	1:15:B:C5L:HCA2	3	0.13
(1,109)	1:24:B:DG:H8	1:23:B:C5L:H2'	3	0.13
(1,109)	1:24:B:DG:H8	1:23:B:C5L:H2'	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H71	9	0.13
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H72	9	0.13
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H73	9	0.13
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H71	9	0.13
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H72	9	0.13
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H73	9	0.13
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	7	0.13
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	7	0.13
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	7	0.13
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	7	0.13
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	7	0.13
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	7	0.13
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	7	0.13
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	7	0.13
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	7	0.13
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	7	0.13
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	7	0.13
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	7	0.13
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	7	0.13
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	7	0.13
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	7	0.13
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	7	0.13
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	7	0.13
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	7	0.13
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H71	9	0.13
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H72	9	0.13
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H73	9	0.13
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H71	9	0.13
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H72	9	0.13
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H73	9	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	1	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	1	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	1	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	1	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	1	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	1	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	8	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	8	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	8	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	8	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	8	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	9	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	9	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	9	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	9	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	9	0.13
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	9	0.13
(1,2)	1:13:B:C5L:H2'	1:14:B:G48:H8	8	0.13
(1,2)	1:13:B:C5L:H2'	1:14:B:G48:H8	8	0.13
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	2	0.12
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	2	0.12
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H71	7	0.12
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H72	7	0.12
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H73	7	0.12
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H71	7	0.12
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H72	7	0.12
(1,94)	1:22:B:G48:H3'	1:23:B:C5L:H73	7	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	2	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	2	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	2	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	2	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	2	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	2	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	2	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	2	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	2	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	2	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	2	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	2	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	2	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	2	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	2	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	2	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	2	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	2	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	4	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	4	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	4	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	4	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	4	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	4	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	4	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	4	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	4	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	4	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	4	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	4	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	4	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	4	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	4	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	4	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	4	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	5	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	5	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	5	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	5	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	5	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	5	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	5	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	5	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	5	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	5	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	5	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	5	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	5	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	5	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	5	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	5	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	5	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	5	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	8	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	8	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	8	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	8	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	8	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	8	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	8	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	8	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	8	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	8	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	8	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	8	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	8	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	8	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	8	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	8	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	8	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	9	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	9	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	9	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	9	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	9	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	9	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	9	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	9	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	9	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	9	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	9	0.12
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	9	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	9	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	9	0.12
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	9	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	9	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	9	0.12
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	9	0.12
(1,50)	1:18:B:A44:H3'	1:19:B:T39:H6	2	0.12
(1,50)	1:18:B:A44:H3'	1:19:B:T39:H6	2	0.12
(1,50)	1:18:B:A44:H3'	1:19:B:T39:H6	8	0.12
(1,50)	1:18:B:A44:H3'	1:19:B:T39:H6	8	0.12
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H71	3	0.12
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H72	3	0.12
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H73	3	0.12
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H71	3	0.12
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H72	3	0.12
(1,19)	1:14:B:G48:H8	1:15:B:C5L:H73	3	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	2	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	2	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	2	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	2	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	2	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	2	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	3	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	3	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	3	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	3	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	3	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	4	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	4	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	4	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	4	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	4	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	4	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	5	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	5	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	5	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	5	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	5	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	5	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	6	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	6	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	6	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	6	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	6	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	6	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	7	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	7	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	7	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H71	7	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H72	7	0.12
(1,6)	1:13:B:C5L:H6	1:13:B:C5L:H73	7	0.12
(1,2)	1:13:B:C5L:H2'	1:14:B:G48:H8	3	0.12
(1,2)	1:13:B:C5L:H2'	1:14:B:G48:H8	3	0.12
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	9	0.11
(1,141)	1:19:B:T39:H3	1:17:B:A44:H61	9	0.11
(1,109)	1:24:B:DG:H8	1:23:B:C5L:H2'	2	0.11
(1,109)	1:24:B:DG:H8	1:23:B:C5L:H2'	2	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	1	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	1	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	1	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	1	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	1	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	1	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	1	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	1	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	1	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	1	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	1	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	1	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	1	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	1	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	1	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	1	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	1	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	3	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	3	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	3	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	3	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	3	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	3	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	3	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	3	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	3	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	3	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	3	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	3	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	3	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	3	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	3	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	3	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	3	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	3	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	6	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	6	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	6	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	6	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	6	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	6	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	6	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	6	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	6	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H73	6	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H71	6	0.11
(1,81)	1:20:B:T39:H71	1:19:B:T39:H72	6	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H73	6	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H71	6	0.11
(1,81)	1:20:B:T39:H72	1:19:B:T39:H72	6	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H73	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,81)	1:20:B:T39:H73	1:19:B:T39:H71	6	0.11
(1,81)	1:20:B:T39:H73	1:19:B:T39:H72	6	0.11
(1,27)	1:16:B:G48:H8	1:15:B:C5L:H71	1	0.11
(1,27)	1:16:B:G48:H8	1:15:B:C5L:H72	1	0.11
(1,27)	1:16:B:G48:H8	1:15:B:C5L:H73	1	0.11
(1,27)	1:16:B:G48:H8	1:15:B:C5L:H71	1	0.11
(1,27)	1:16:B:G48:H8	1:15:B:C5L:H72	1	0.11
(1,27)	1:16:B:G48:H8	1:15:B:C5L:H73	1	0.11
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	9	0.11
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	9	0.11
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	9	0.11
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H71	9	0.11
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H72	9	0.11
(1,15)	1:14:B:G48:H3'	1:15:B:C5L:H73	9	0.11

10 Dihedral-angle violation analysis ⓘ

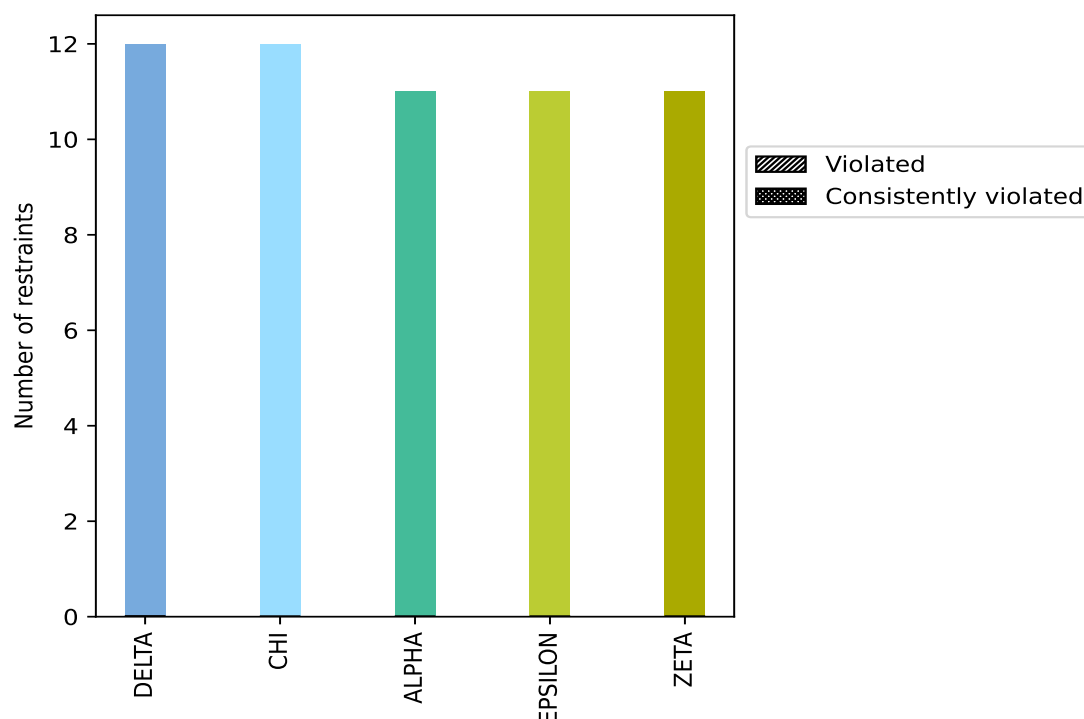
10.1 Summary of dihedral-angle violations ⓘ

The following table provides the summary of dihedral-angle violations in different dihedral-angle types. Violations less than 1° are not included in the calculation.

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
DELTA	12	21.1	0	0.0	0.0	0	0.0	0.0
CHI	12	21.1	0	0.0	0.0	0	0.0	0.0
ALPHA	11	19.3	0	0.0	0.0	0	0.0	0.0
EPSILON	11	19.3	0	0.0	0.0	0	0.0	0.0
ZETA	11	19.3	0	0.0	0.0	0	0.0	0.0
Total	57	100.0	0	0.0	0.0	0	0.0	0.0

¹ percentage calculated with respect to total number of dihedral-angle restraints, ² percentage calculated with respect to number of restraints in a particular dihedral-angle type, ³ violated in at least one model, ⁴ violated in all the models

10.1.1 Bar chart : Distribution of dihedral-angles and violations ⓘ



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model [i](#)

No violations found

10.3 Dihedral-angle violation statistics for the ensemble [i](#)

No violations found

10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

No violations found

10.5 All violated dihedral-angle restraints [i](#)

No violations found