



Full wwPDB NMR Structure Validation Report ⓘ

Jun 5, 2023 – 09:27 AM EDT

PDB ID : 2M39
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

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : **FAILED**
Mogul : 1.8.5 (274361), CSD as541be (2020)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.33

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%.

There are no overall percentile quality scores available for this entry.

The sequence quality summary graphics cannot be shown.

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
			Total	C	H	Ho	N	O	P	
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	

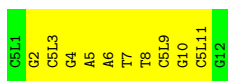
4 Residue-property plots

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.

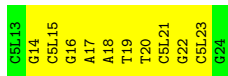
- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG-3')

Chain A:  17% 83%



- 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% 83%

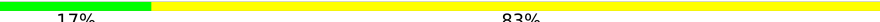


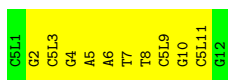
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

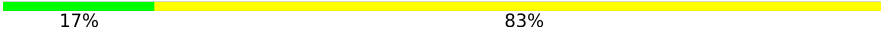
4.2.1 Score per residue for model 1

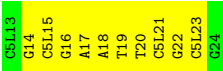
- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG-3')

Chain A:  17% 83%



- 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')

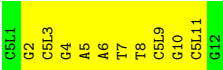
Chain B:  17% 83%



4.2.2 Score per residue for model 2

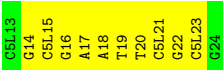
- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

Chain A:  17% 83%



- 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')

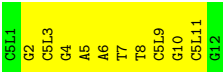
Chain B:  17% 83%



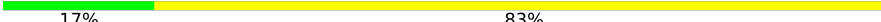
4.2.3 Score per residue for model 3

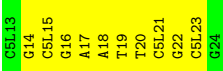
- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

Chain A:  17% 83%



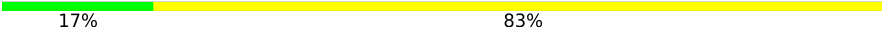
- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

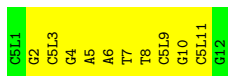
Chain B:  17% 83%




4.2.4 Score per residue for model 4

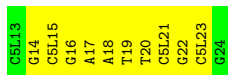
- Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

Chain A:  17% 83%



• 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')

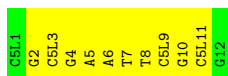
Chain B:  17% 83%



4.2.5 Score per residue for model 5

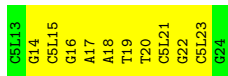
• Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

Chain A:  17% 83%



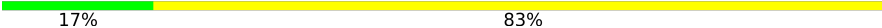
• Molecule 1: RNA (5'-R*(C5L)P*(G48)P*(C5L)P*(G48)P*(A44)P*(A44)P*(T39)P*(T39)P*(C5L)P*(G48)P*(C5L)P*DG)-3')

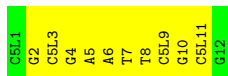
Chain B:  17% 83%



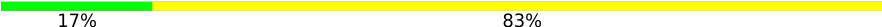
4.2.6 Score per residue for model 6

• 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% 83%



• 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% 83%

C5L13
G14
C5L15
G16
A17
A18
T19
T20
C5L21
G22
C5L23
G24

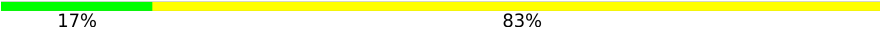
4.2.7 Score per residue for model 7

- 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')

Chain A:  17% 83%

C5L1
G2
C5L3
G4
A5
A6
T7
T8
C5L9
G10
C5L11
G12

- 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% 83%

C5L13
G14
C5L15
G16
A17
A18
T19
T20
C5L21
G22
C5L23
G24


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')

Chain A:  17% 83%

C5L1
G2
C5L3
G4
A5
A6
T7
T8
C5L9
G10
C5L11
G12


- 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% 83%

C5L13
G14
C5L15
G16
A17
A18
T19
T20
C5L21
G22
C5L23
G24

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:  17% 83%

C5L1
G2
C5L3
G4
A5
A6
T7
T8
C5L9
G10
C5L11
G12

- 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% 83%

C5L13
G14
C5L15
G16
A17
A18
T19
T20
C5L21
G22
C5L23
G24

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](#)

MolProbity failed to run properly - this section will have to be empty.

6.2 Too-close contacts [i](#)

MolProbity failed to run properly - this section will have to be empty.

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

MolProbity failed to run properly - this section will have to be empty.

6.3.2 Protein sidechains [i](#)

MolProbity failed to run properly - this section will have to be empty.

6.3.3 RNA [i](#)

MolProbity failed to run properly - this section will have to be empty.

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

MolProbity failed to run properly - this section will have to be empty.

6.5 Carbohydrates [i](#)

MolProbity failed to run properly - this section will have to be empty.

6.6 Ligand geometry [i](#)

MolProbity failed to run properly - this section will have to be empty.

6.7 Other polymers [i](#)

MolProbity failed to run properly - this section will have to be empty.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 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 i

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

Total number of shifts	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 i

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

7.1.3 Completeness of resonance assignments i

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 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	¹H	¹³C	¹⁵N
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 [i](#)

There are no statistically unusual chemical shifts.

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

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$)	107
Medium range ($ i-j >1$ and $ i-j <5$)	19
Long range ($ i-j \geq 5$)	55
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	10.0
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)	11.2	0.49
>0.5 (Large)	78.6	30.21

8.2.2 Average number of dihedral-angle violations per model

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

9 Distance violation analysis i

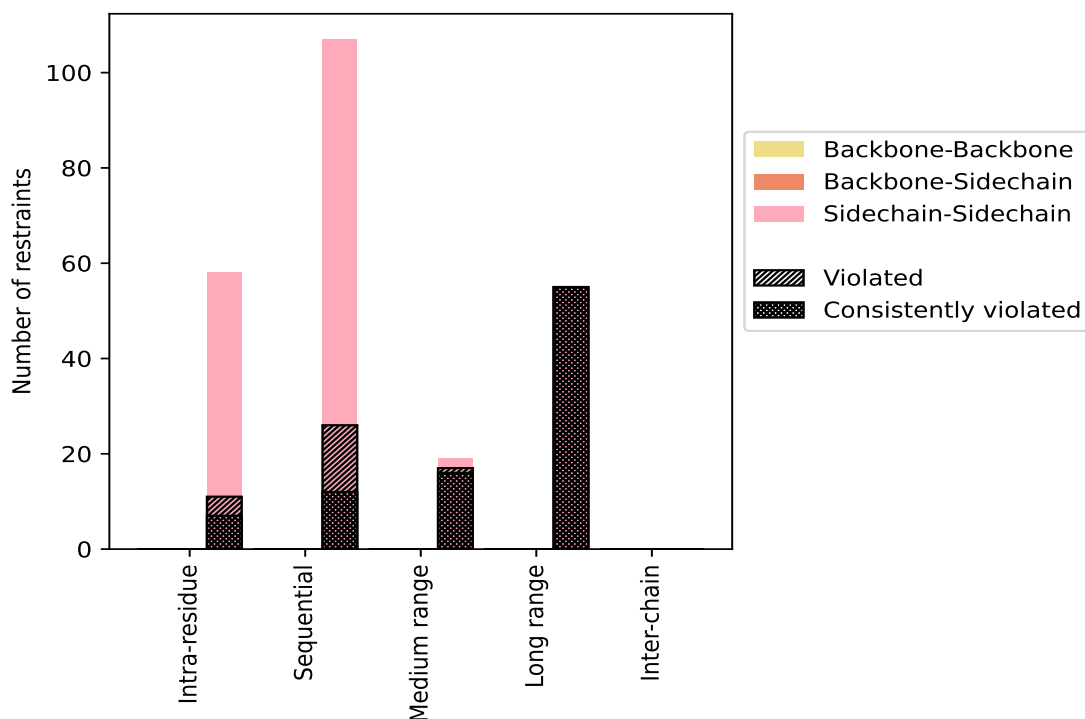
9.1 Summary of distance violations i

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	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	58	24.3	11	19.0	4.6	7	12.1	2.9
Sequential ($i-j =1$)	107	44.8	26	24.3	10.9	12	11.2	5.0
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	107	44.8	26	24.3	10.9	12	11.2	5.0
Medium range ($i-j >1$ & $i-j <5$)	19	7.9	17	89.5	7.1	16	84.2	6.7
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	19	7.9	17	89.5	7.1	16	84.2	6.7
Long range ($i-j \geq 5$)	55	23.0	55	100.0	23.0	55	100.0	23.0
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	55	23.0	55	100.0	23.0	55	100.0	23.0
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	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	239	100.0	109	45.6	45.6	90	37.7	37.7
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	239	100.0	109	45.6	45.6	90	37.7	37.7

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 disulfid bonds are counted in their appropriate category on the x-axis

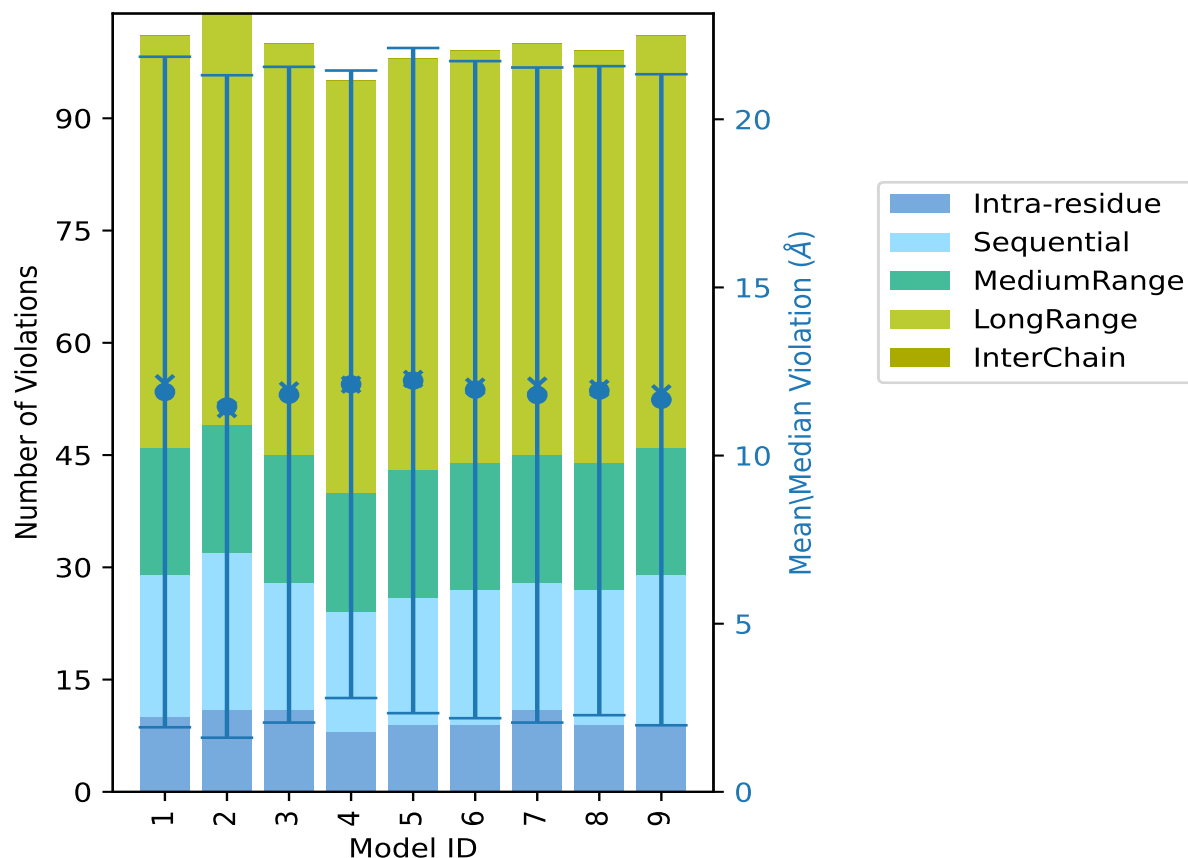
9.2 Distance violation statistics for each model [i](#)

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	19	17	55	0	101	11.89	30.11	9.97	12.15
2	11	21	17	55	0	104	11.46	29.33	9.85	11.38
3	11	17	17	55	0	100	11.81	29.68	9.75	11.94
4	8	16	16	55	0	95	12.12	28.35	9.33	12.11
5	9	17	17	55	0	98	12.23	30.21	9.89	12.28
6	9	18	17	55	0	99	11.96	29.82	9.77	12.05
7	11	17	17	55	0	100	11.8	29.09	9.74	12.08
8	9	18	17	55	0	99	11.93	28.88	9.65	12.0
9	9	20	17	55	0	101	11.66	28.69	9.68	11.85

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, 130(IR:47, SQ:81, 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
1	1	0	0	0	2	5	55.6
0	1	0	0	0	1	6	66.7

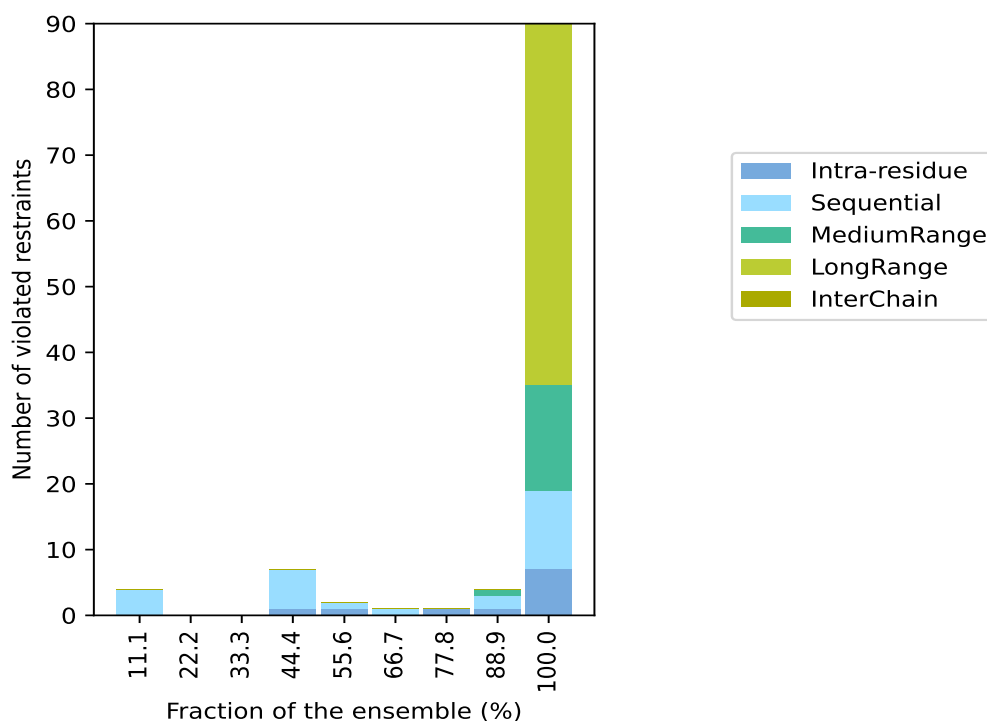
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
1	0	0	0	0	1	7	77.8
1	2	1	0	0	4	8	88.9
7	12	16	55	0	90	9	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶ Number of models with violations

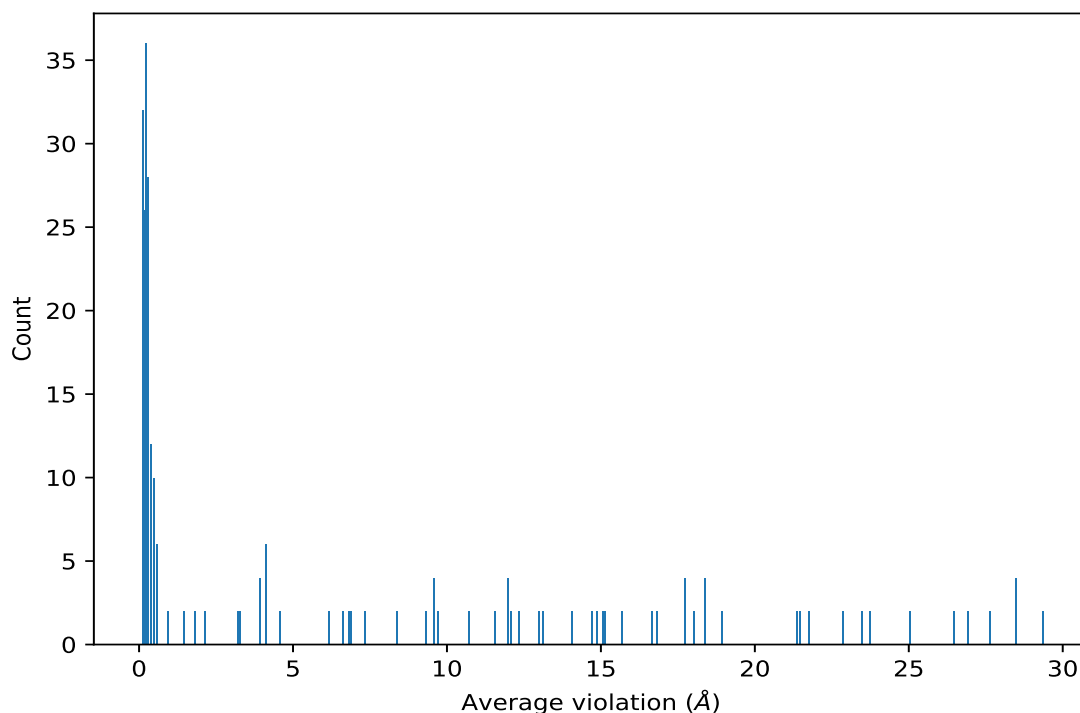
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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:B:13:C5L:O2	1:B:24:DG:H21	9	29.35	0.61	29.33
(2,52)	1:B:13:C5L:O2	1:B:24:DG:H21	9	29.35	0.61	29.33
(2,44)	1:B:13:C5L:N3	1:B:24:DG:H1	9	28.49	0.5	28.38
(2,49)	1:B:13:C5L:N3	1:B:24:DG:H1	9	28.49	0.5	28.38
(2,43)	1:B:13:C5L:H41	1:B:24:DG:O6	9	28.46	0.39	28.41
(2,48)	1:B:13:C5L:H41	1:B:24:DG:O6	9	28.46	0.39	28.41
(2,45)	1:B:13:C5L:N3	1:B:24:DG:N1	9	27.61	0.49	27.53
(2,50)	1:B:13:C5L:N3	1:B:24:DG:N1	9	27.61	0.49	27.53
(2,46)	1:B:13:C5L:N4	1:B:24:DG:O6	9	26.93	0.38	26.89
(2,51)	1:B:13:C5L:N4	1:B:24:DG:O6	9	26.93	0.38	26.89
(2,5)	1:B:14:G48:H21	1:B:23:C5L:O2	9	26.46	0.34	26.49
(2,42)	1:B:23:C5L:O2	1:B:14:G48:H21	9	26.46	0.34	26.49
(2,3)	1:B:14:G48:H1	1:B:23:C5L:N3	9	25.01	0.32	24.94
(2,39)	1:B:23:C5L:N3	1:B:14:G48:H1	9	25.01	0.32	24.94
(2,4)	1:B:14:G48:N1	1:B:23:C5L:N3	9	23.72	0.34	23.68
(2,40)	1:B:23:C5L:N3	1:B:14: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:B:14:G48:O6	1:B:23:C5L:H41	9	23.47	0.38	23.5
(2,38)	1:B:23:C5L:H41	1:B:14:G48:O6	9	23.47	0.38	23.5
(2,2)	1:B:14:G48:O6	1:B:23:C5L:N4	9	22.86	0.35	22.89
(2,41)	1:B:23:C5L:N4	1:B:14:G48:O6	9	22.86	0.35	22.89
(2,10)	1:B:15:C5L:O2	1:B:22:G48:H21	9	21.76	0.3	21.85
(2,37)	1:B:22:G48:H21	1:B:15:C5L:O2	9	21.76	0.3	21.85
(1,162)	1:B:24:DG:H8	1:B:14:G48:H1	9	21.45	0.32	21.42
(1,162)	1:B:24:DG:H8	1:B:14:G48:H1	9	21.45	0.32	21.42
(1,158)	1:B:14:G48:H1	1:B:24:DG:H1'	9	21.36	0.47	21.48
(1,158)	1:B:14:G48:H1	1:B:24:DG:H1'	9	21.36	0.47	21.48
(2,7)	1:B:15:C5L:N3	1:B:22:G48:H1	9	18.93	0.3	18.94
(2,35)	1:B:22:G48:H1	1:B:15:C5L:N3	9	18.93	0.3	18.94
(2,8)	1:B:15:C5L:N3	1:B:22:G48:N1	9	18.37	0.27	18.35
(2,36)	1:B:22:G48:N1	1:B:15:C5L:N3	9	18.37	0.27	18.35
(1,163)	1:B:14:G48:H1	1:B:23:C5L:H1'	9	18.37	0.26	18.43
(1,163)	1:B:14:G48:H1	1:B:23:C5L:H1'	9	18.37	0.26	18.43
(2,6)	1:B:15:C5L:H41	1:B:22:G48:O6	9	18.0	0.3	18.01
(2,33)	1:B:22:G48:O6	1:B:15:C5L:H41	9	18.0	0.3	18.01
(1,157)	1:B:14:G48:H1	1:B:23:C5L:H41	9	17.74	0.25	17.72
(1,157)	1:B:14:G48:H1	1:B:23:C5L:H41	9	17.74	0.25	17.72
(1,157)	1:B:14:G48:H1	1:B:23:C5L:H42	9	17.74	0.25	17.72
(1,157)	1:B:14:G48:H1	1:B:23:C5L:H42	9	17.74	0.25	17.72
(2,15)	1:B:16:G48:H21	1:B:21:C5L:O2	9	16.84	0.18	16.88
(2,32)	1:B:21:C5L:O2	1:B:16:G48:H21	9	16.84	0.18	16.88
(2,9)	1:B:15:C5L:N4	1:B:22:G48:O6	9	16.66	0.32	16.69
(2,34)	1:B:22:G48:O6	1:B:15:C5L:N4	9	16.66	0.32	16.69
(1,167)	1:B:22:G48:H1	1:B:16:G48:H1'	9	15.69	0.27	15.67
(1,167)	1:B:22:G48:H1	1:B:16:G48:H1'	9	15.69	0.27	15.67
(2,13)	1:B:16:G48:H1	1:B:21:C5L:N3	9	15.1	0.12	15.14
(2,29)	1:B:21:C5L:N3	1:B:16:G48:H1	9	15.1	0.12	15.14
(1,136)	1:B:14:G48:H1	1:B:22:G48:H1	9	15.05	0.28	15.07
(1,136)	1:B:14:G48:H1	1:B:22:G48:H1	9	15.05	0.28	15.07
(1,172)	1:B:16:G48:H1	1:B:22:G48:H1'	9	14.85	0.11	14.89
(1,172)	1:B:16:G48:H1	1:B:22:G48:H1'	9	14.85	0.11	14.89
(1,168)	1:B:15:C5L:H1'	1:B:22:G48:H1	9	14.7	0.31	14.73
(1,168)	1:B:15:C5L:H1'	1:B:22:G48:H1	9	14.7	0.31	14.73
(2,14)	1:B:16:G48:N1	1:B:21:C5L:N3	9	14.07	0.13	14.07
(2,30)	1:B:21:C5L:N3	1:B:16:G48:N1	9	14.07	0.13	14.07
(2,11)	1:B:16:G48:O6	1:B:21:C5L:H41	9	13.12	0.13	13.17
(2,28)	1:B:21:C5L:H41	1:B:16:G48:O6	9	13.12	0.13	13.17
(1,170)	1:B:22:G48:H1	1:B:15:C5L:H2'	9	12.96	0.33	12.98
(1,170)	1:B:22:G48:H1	1:B:15: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:B:16:G48:O6	1:B:21:C5L:N4	9	12.3	0.11	12.32
(2,31)	1:B:21:C5L:N4	1:B:16:G48:O6	9	12.3	0.11	12.32
(1,180)	1:B:16:G48:H1	1:B:22:G48:H8	9	12.06	0.13	12.03
(1,180)	1:B:16:G48:H1	1:B:22:G48:H8	9	12.06	0.13	12.03
(1,166)	1:B:22:G48:H1	1:B:15:C5L:H41	9	11.99	0.27	12.05
(1,166)	1:B:22:G48:H1	1:B:15:C5L:H41	9	11.99	0.27	12.05
(1,166)	1:B:22:G48:H1	1:B:15:C5L:H42	9	11.99	0.27	12.05
(1,166)	1:B:22:G48:H1	1:B:15:C5L:H42	9	11.99	0.27	12.05
(1,139)	1:B:22:G48:H1	1:B:16:G48:H1	9	11.59	0.21	11.6
(1,139)	1:B:22:G48:H1	1:B:16:G48:H1	9	11.59	0.21	11.6
(1,169)	1:B:16:G48:H8	1:B:22:G48:H1	9	10.73	0.27	10.73
(1,169)	1:B:16:G48:H8	1:B:22:G48:H1	9	10.73	0.27	10.73
(1,176)	1:B:16:G48:H1	1:B:21:C5L:H1'	9	9.73	0.21	9.68
(1,176)	1:B:16:G48:H1	1:B:21:C5L:H1'	9	9.73	0.21	9.68
(1,177)	1:B:16:G48:H1	1:B:21:C5L:H41	9	9.59	0.1	9.61
(1,177)	1:B:16:G48:H1	1:B:21:C5L:H41	9	9.59	0.1	9.61
(1,177)	1:B:16:G48:H1	1:B:21:C5L:H42	9	9.59	0.1	9.61
(1,177)	1:B:16:G48:H1	1:B:21:C5L:H42	9	9.59	0.1	9.61
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	9	9.3	0.15	9.26
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	9	9.3	0.15	9.26
(2,17)	1:B:17:A44:N1	1:B:20:T39:H3	9	8.38	0.07	8.34
(2,25)	1:B:20:T39:H3	1:B:17:A44:N1	9	8.38	0.07	8.34
(2,18)	1:B:17:A44:N1	1:B:20:T39:N3	9	7.33	0.06	7.32
(2,26)	1:B:20:T39:N3	1:B:17:A44:N1	9	7.33	0.06	7.32
(2,16)	1:B:17:A44:H61	1:B:20:T39:O4	9	6.85	0.06	6.85
(2,27)	1:B:20:T39:O4	1:B:17:A44:H61	9	6.85	0.06	6.85
(1,183)	1:B:17:A44:H2	1:B:21:C5L:H42	9	6.81	0.14	6.8
(1,183)	1:B:17:A44:H2	1:B:21:C5L:H42	9	6.81	0.14	6.8
(1,148)	1:B:20:T39:H3	1:B:17:A44:H2	9	6.61	0.08	6.57
(1,148)	1:B:20:T39:H3	1:B:17:A44:H2	9	6.61	0.08	6.57
(1,138)	1:B:20:T39:H3	1:B:16:G48:H1	9	6.15	0.1	6.12
(1,138)	1:B:20:T39:H3	1:B:16:G48:H1	9	6.15	0.1	6.12
(1,182)	1:B:17:A44:H62	1:B:21:C5L:H41	9	4.55	0.09	4.58
(1,182)	1:B:17:A44:H62	1:B:21:C5L:H41	9	4.55	0.09	4.58
(1,37)	1:B:17:A44:H2	1:B:21:C5L:H71	9	4.13	0.08	4.14
(1,37)	1:B:17:A44:H2	1:B:21:C5L:H72	9	4.13	0.08	4.14
(1,37)	1:B:17:A44:H2	1:B:21:C5L:H73	9	4.13	0.08	4.14
(1,37)	1:B:17:A44:H2	1:B:21:C5L:H71	9	4.13	0.08	4.14
(1,37)	1:B:17:A44:H2	1:B:21:C5L:H72	9	4.13	0.08	4.14
(1,37)	1:B:17:A44:H2	1:B:21:C5L:H73	9	4.13	0.08	4.14
(1,149)	1:B:20:T39:H3	1:B:17:A44:H61	9	3.94	0.04	3.94
(1,149)	1:B:20:T39:H3	1:B:17: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:B:20:T39:H3	1:B:17:A44:H62	9	3.94	0.04	3.94
(1,149)	1:B:20:T39:H3	1:B:17:A44:H62	9	3.94	0.04	3.94
(1,150)	1:B:20:T39:H3	1:B:18:A44:H2	9	3.28	0.06	3.31
(1,150)	1:B:20:T39:H3	1:B:18:A44:H2	9	3.28	0.06	3.31
(1,151)	1:B:20:T39:H3	1:B:18:A44:H1'	9	3.21	0.07	3.18
(1,151)	1:B:20:T39:H3	1:B:18:A44:H1'	9	3.21	0.07	3.18
(2,20)	1:B:18:A44:N1	1:B:19:T39:H3	9	2.11	0.07	2.1
(2,22)	1:B:19:T39:H3	1:B:18:A44:N1	9	2.11	0.07	2.1
(2,19)	1:B:18:A44:H61	1:B:19:T39:O4	9	1.8	0.05	1.82
(2,24)	1:B:19:T39:O4	1:B:18:A44:H61	9	1.8	0.05	1.82
(1,140)	1:B:19:T39:H3	1:B:17:A44:H2	9	1.46	0.08	1.45
(1,140)	1:B:19:T39:H3	1:B:17:A44:H2	9	1.46	0.08	1.45
(2,21)	1:B:18:A44:N1	1:B:19:T39:N3	9	0.93	0.09	0.94
(2,23)	1:B:19:T39:N3	1:B:18:A44:N1	9	0.93	0.09	0.94
(1,56)	1:B:18:A44:H8	1:B:19:T39:H73	9	0.59	0.04	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H71	9	0.59	0.04	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H72	9	0.59	0.04	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H73	9	0.59	0.04	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H71	9	0.59	0.04	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H72	9	0.59	0.04	0.61
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	9	0.47	0.07	0.46
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	9	0.47	0.07	0.46
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	9	0.47	0.07	0.46
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	9	0.47	0.07	0.46
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	9	0.39	0.01	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	9	0.39	0.01	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	9	0.39	0.01	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	9	0.39	0.01	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	9	0.39	0.01	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	9	0.39	0.01	0.39
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	9	0.38	0.04	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	9	0.38	0.04	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	9	0.38	0.04	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	9	0.38	0.04	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	9	0.38	0.04	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	9	0.38	0.04	0.36
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	9	0.29	0.06	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	9	0.29	0.06	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	9	0.29	0.06	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	9	0.29	0.06	0.3
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	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:B:21:C5L:H71	1:B:20:T39:H73	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	9	0.29	0.03	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	9	0.29	0.03	0.29
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	9	0.23	0.01	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	9	0.23	0.01	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	9	0.23	0.01	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	9	0.23	0.01	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	9	0.23	0.01	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	9	0.23	0.01	0.22
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	9	0.2	0.03	0.21
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	9	0.2	0.03	0.21
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	9	0.2	0.01	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	9	0.2	0.01	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	9	0.2	0.01	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	9	0.2	0.01	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	9	0.2	0.01	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	9	0.2	0.01	0.19
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H71	9	0.19	0.01	0.19
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H72	9	0.19	0.01	0.19
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H73	9	0.19	0.01	0.19
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H71	9	0.19	0.01	0.19
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H72	9	0.19	0.01	0.19
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H73	9	0.19	0.01	0.19
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	9	0.16	0.01	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	9	0.16	0.01	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	9	0.16	0.01	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	9	0.16	0.01	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	9	0.16	0.01	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	9	0.16	0.01	0.16

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

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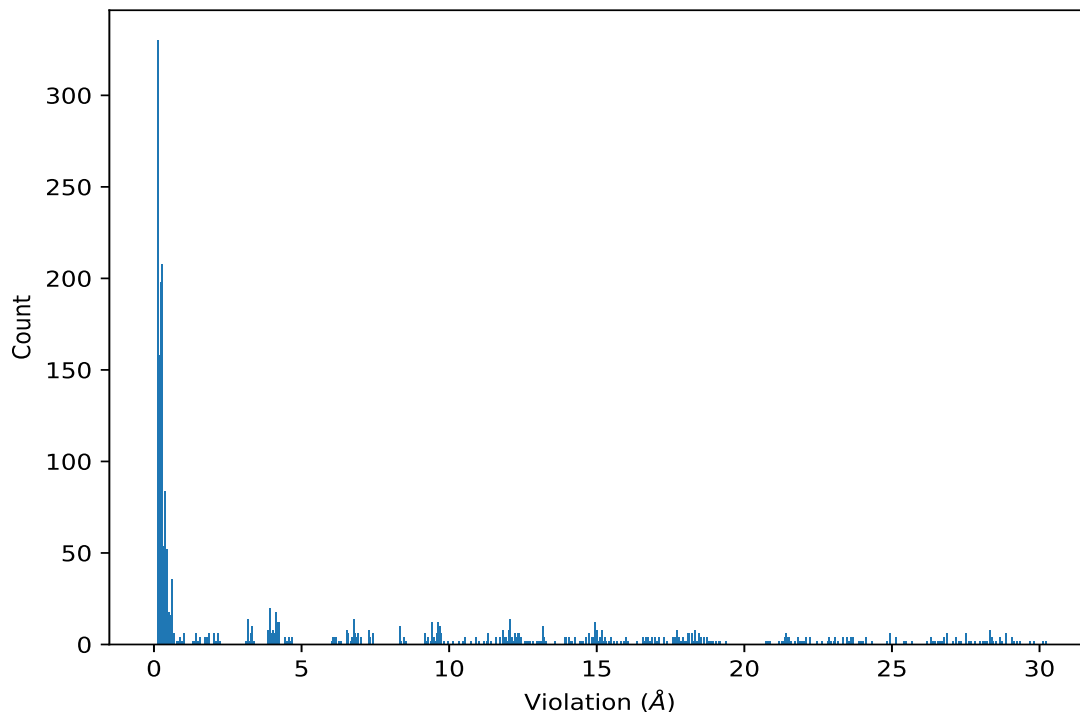
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	6	0.2	0.06	0.2
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	6	0.2	0.06	0.2
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	6	0.2	0.06	0.2
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	6	0.2	0.06	0.2
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	6	0.2	0.06	0.2
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	6	0.2	0.06	0.2
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H71	5	0.45	0.16	0.43
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H72	5	0.45	0.16	0.43
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H73	5	0.45	0.16	0.43
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H71	5	0.45	0.16	0.43
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H72	5	0.45	0.16	0.43
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H73	5	0.45	0.16	0.43
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA1	5	0.2	0.03	0.21
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA2	5	0.2	0.03	0.21
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA1	5	0.2	0.03	0.21
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA2	5	0.2	0.03	0.21
(1,7)	1:B:13:C5L:H6	1:B:14:G48:H8	4	0.22	0.07	0.2
(1,7)	1:B:13:C5L:H6	1:B:14:G48:H8	4	0.22	0.07	0.2
(1,2)	1:B:13:C5L:H2'	1:B:14:G48:H8	4	0.18	0.06	0.18
(1,2)	1:B:13:C5L:H2'	1:B:14:G48:H8	4	0.18	0.06	0.18
(1,50)	1:B:18:A44:H3'	1:B:19:T39:H6	4	0.17	0.05	0.16
(1,50)	1:B:18:A44:H3'	1:B:19:T39:H6	4	0.17	0.05	0.16
(1,5)	1:B:13:C5L:H6	1:B:13:C5L:H3'	4	0.17	0.02	0.16
(1,5)	1:B:13:C5L:H6	1:B:13:C5L:H3'	4	0.17	0.02	0.16
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H71	4	0.16	0.03	0.16
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H72	4	0.16	0.03	0.16
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H73	4	0.16	0.03	0.16
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H71	4	0.16	0.03	0.16
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H72	4	0.16	0.03	0.16
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H73	4	0.16	0.03	0.16
(1,109)	1:B:24:DG:H8	1:B:23:C5L:H2'	4	0.14	0.02	0.15
(1,109)	1:B:24:DG:H8	1:B:23:C5L:H2'	4	0.14	0.02	0.15
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H71	4	0.13	0.01	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H72	4	0.13	0.01	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H73	4	0.13	0.01	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H71	4	0.13	0.01	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H72	4	0.13	0.01	0.14
(1,19)	1:B:14:G48:H8	1:B:15: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:B:13:C5L:O2	1:B:24:DG:H21	5	30.21
(2,47)	1:B:13:C5L:O2	1:B:24:DG:H21	5	30.21
(2,52)	1:B:13:C5L:O2	1:B:24:DG:H21	1	30.11
(2,47)	1:B:13:C5L:O2	1:B:24:DG:H21	1	30.11
(2,52)	1:B:13:C5L:O2	1:B:24:DG:H21	6	29.82
(2,47)	1:B:13:C5L:O2	1:B:24:DG:H21	6	29.82
(2,52)	1:B:13:C5L:O2	1:B:24:DG:H21	3	29.68
(2,47)	1:B:13:C5L:O2	1:B:24:DG:H21	3	29.68
(2,52)	1:B:13:C5L:O2	1:B:24:DG:H21	2	29.33
(2,47)	1:B:13:C5L:O2	1:B:24:DG:H21	2	29.33

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,177)	1:B:16:G48:H1	1:B:21:C5L:H41	7	9.45
(1,177)	1:B:16:G48:H1	1:B:21:C5L:H41	7	9.45
(1,177)	1:B:16:G48:H1	1:B:21:C5L:H42	7	9.45
(1,177)	1:B:16:G48:H1	1:B:21:C5L:H42	7	9.45
(1,176)	1:B:16:G48:H1	1:B:21:C5L:H1'	3	9.44
(1,176)	1:B:16:G48:H1	1:B:21:C5L:H1'	3	9.44
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	9	9.35
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	9	9.35
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	8	9.29
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	8	9.29
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	4	9.26
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	4	9.26
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	6	9.21
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	6	9.21
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	1	9.19
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	1	9.19
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	3	9.18
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	3	9.18
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	5	9.16
(1,36)	1:B:17:A44:H2	1:B:21:C5L:H1'	5	9.16
(2,25)	1:B:20:T39:H3	1:B:17:A44:N1	9	8.5
(2,17)	1:B:17:A44:N1	1:B:20:T39:H3	9	8.5
(2,25)	1:B:20:T39:H3	1:B:17:A44:N1	2	8.47
(2,17)	1:B:17:A44:N1	1:B:20:T39:H3	2	8.47
(2,25)	1:B:20:T39:H3	1:B:17:A44:N1	8	8.46
(2,17)	1:B:17:A44:N1	1:B:20:T39:H3	8	8.46
(2,25)	1:B:20:T39:H3	1:B:17:A44:N1	3	8.35
(2,17)	1:B:17:A44:N1	1:B:20:T39:H3	3	8.35
(2,25)	1:B:20:T39:H3	1:B:17:A44:N1	6	8.34
(2,17)	1:B:17:A44:N1	1:B:20:T39:H3	6	8.34
(2,25)	1:B:20:T39:H3	1:B:17:A44:N1	7	8.33
(2,17)	1:B:17:A44:N1	1:B:20:T39:H3	7	8.33
(2,25)	1:B:20:T39:H3	1:B:17:A44:N1	1	8.32
(2,17)	1:B:17:A44:N1	1:B:20:T39:H3	1	8.32
(2,25)	1:B:20:T39:H3	1:B:17:A44:N1	4	8.31
(2,25)	1:B:20:T39:H3	1:B:17:A44:N1	5	8.31
(2,17)	1:B:17:A44:N1	1:B:20:T39:H3	4	8.31
(2,17)	1:B:17:A44:N1	1:B:20:T39:H3	5	8.31
(2,26)	1:B:20:T39:N3	1:B:17:A44:N1	8	7.44
(2,18)	1:B:17:A44:N1	1:B:20:T39:N3	8	7.44
(2,26)	1:B:20:T39:N3	1:B:17:A44:N1	2	7.4
(2,26)	1:B:20:T39:N3	1:B:17:A44:N1	9	7.4

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

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

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

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

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

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

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

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

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:B:18:A44:H8	1:B:19:T39:H71	3	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H72	3	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H73	8	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H71	8	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H72	8	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H73	8	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H71	8	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H72	8	0.61
(1,56)	1:B:18:A44:H8	1:B:19:T39:H73	2	0.6
(1,56)	1:B:18:A44:H8	1:B:19:T39:H71	2	0.6
(1,56)	1:B:18:A44:H8	1:B:19:T39:H72	2	0.6
(1,56)	1:B:18:A44:H8	1:B:19:T39:H73	2	0.6
(1,56)	1:B:18:A44:H8	1:B:19:T39:H71	2	0.6
(1,56)	1:B:18:A44:H8	1:B:19:T39:H72	2	0.6
(1,56)	1:B:18:A44:H8	1:B:19:T39:H73	4	0.56
(1,56)	1:B:18:A44:H8	1:B:19:T39:H71	4	0.56
(1,56)	1:B:18:A44:H8	1:B:19:T39:H72	4	0.56
(1,56)	1:B:18:A44:H8	1:B:19:T39:H73	4	0.56
(1,56)	1:B:18:A44:H8	1:B:19:T39:H71	4	0.56
(1,56)	1:B:18:A44:H8	1:B:19:T39:H72	4	0.56
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	6	0.55
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	6	0.55
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	6	0.55
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	6	0.55
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	5	0.54
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	5	0.54
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	5	0.54
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	5	0.54
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	8	0.53
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	8	0.53
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	8	0.53
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	8	0.53
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H71	6	0.52
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H72	6	0.52
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H73	6	0.52
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H71	6	0.52
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H72	6	0.52
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H73	6	0.52
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	3	0.52
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	3	0.52
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	3	0.52
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	3	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:B:18:A44:H8	1:B:19:T39:H73	9	0.49
(1,56)	1:B:18:A44:H8	1:B:19:T39:H71	9	0.49
(1,56)	1:B:18:A44:H8	1:B:19:T39:H72	9	0.49
(1,56)	1:B:18:A44:H8	1:B:19:T39:H73	9	0.49
(1,56)	1:B:18:A44:H8	1:B:19:T39:H71	9	0.49
(1,56)	1:B:18:A44:H8	1:B:19:T39:H72	9	0.49
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	7	0.46
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	7	0.46
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	7	0.46
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	7	0.46
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	7	0.46
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	7	0.46
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	1	0.46
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	1	0.46
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	1	0.46
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	1	0.46
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	7	0.44
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	7	0.44
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	7	0.44
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	7	0.44
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	2	0.43
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	2	0.43
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	2	0.43
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	2	0.43
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	2	0.43
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	2	0.43
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H71	2	0.43
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H72	2	0.43
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H73	2	0.43
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H71	2	0.43
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H72	2	0.43
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H73	2	0.43
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	2	0.42
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	2	0.42
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	2	0.42
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	2	0.42
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	2	0.42
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	2	0.42
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	2	0.42
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	2	0.42
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	2	0.42
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	2	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	4	0.41
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	4	0.41
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	4	0.41
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	4	0.41
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	4	0.41
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	4	0.41
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	4	0.41
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	4	0.41
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	4	0.41
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	4	0.41
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	6	0.41
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	6	0.41
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	6	0.41
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	6	0.41
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	3	0.4
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	3	0.4
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	3	0.4
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	3	0.4
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	3	0.4
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	3	0.4
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	9	0.4
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	9	0.4
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	9	0.4
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	9	0.4
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	9	0.4
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	9	0.4
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	1	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	1	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	1	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	1	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	1	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	1	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	5	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	5	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	5	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	5	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	5	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	5	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	7	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	7	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	7	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	7	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	7	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	7	0.39
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	6	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	6	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	6	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	6	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	6	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	6	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	8	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	8	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	8	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	8	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	8	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	8	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	9	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	9	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	9	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H71	9	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H72	9	0.38
(1,88)	1:B:21:C5L:H6	1:B:21:C5L:H73	9	0.38
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H71	7	0.38
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H72	7	0.38
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H73	7	0.38
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H71	7	0.38
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H72	7	0.38
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H73	7	0.38
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	8	0.37
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	8	0.37
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	8	0.37
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	8	0.37
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	8	0.37
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	8	0.37
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	7	0.36
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	7	0.36
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	7	0.36
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	7	0.36
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	7	0.36
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	7	0.36
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	7	0.36
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	7	0.36
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	7	0.36
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	7	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	7	0.36
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	7	0.36
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	7	0.36
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	7	0.36
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	7	0.36
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	7	0.36
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	7	0.36
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	7	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	3	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	3	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	3	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	3	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	3	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	3	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	5	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	5	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	5	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	5	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	5	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	5	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	6	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	6	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	6	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	6	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	6	0.36
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	6	0.36
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	9	0.35
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	9	0.35
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	9	0.35
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	9	0.35
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	9	0.35
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	9	0.35
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	9	0.35
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	9	0.35
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	9	0.35
(1,142)	1:B:19:T39:H3	1:B:18:A44:H2	9	0.35
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	1	0.33
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	1	0.33
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	1	0.33
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	1	0.33
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	1	0.33
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	1	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	4	0.33
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	4	0.33
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	4	0.33
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H71	4	0.33
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H72	4	0.33
(1,80)	1:B:20:T39:H6	1:B:21:C5L:H73	4	0.33
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	5	0.33
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	5	0.33
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	5	0.33
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	5	0.33
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	9	0.33
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	9	0.33
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	9	0.33
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	9	0.33
(1,7)	1:B:13:C5L:H6	1:B:14:G48:H8	5	0.32
(1,7)	1:B:13:C5L:H6	1:B:14:G48:H8	5	0.32
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	2	0.31
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	2	0.31
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	2	0.31
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	2	0.31
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	2	0.31
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	2	0.31
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	2	0.31
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	2	0.31
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	2	0.31
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	2	0.31
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	2	0.31
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	2	0.31
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	2	0.31
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	2	0.31
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	2	0.31
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	2	0.31
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	2	0.31
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	2	0.31
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	7	0.31
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	7	0.31
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	7	0.31
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	7	0.31
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	5	0.3
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	5	0.3
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	5	0.3
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	5	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	5	0.3
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	5	0.3
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	5	0.3
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	5	0.3
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	5	0.3
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	5	0.3
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	5	0.3
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	5	0.3
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	5	0.3
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	5	0.3
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	5	0.3
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	5	0.3
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	5	0.3
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	5	0.3
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	4	0.3
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	4	0.3
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	4	0.3
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	4	0.3
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	4	0.3
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	4	0.3
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	3	0.3
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	3	0.3
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	3	0.3
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	3	0.3
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	6	0.3
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	6	0.3
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	6	0.3
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	6	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	1	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	1	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	1	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	1	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	2	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	2	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	2	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	2	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	5	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	5	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	5	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	5	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	8	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	8	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	8	0.3
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	8	0.3
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	6	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	6	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	6	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	6	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	6	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	6	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	6	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	6	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	6	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	6	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	6	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	6	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	6	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	6	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	6	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	6	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	6	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	6	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	9	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	9	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	9	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	9	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	9	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	9	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	9	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	9	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	9	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	9	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	9	0.29
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	9	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	9	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	9	0.29
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	9	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	9	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	9	0.29
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	9	0.29
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	3	0.29
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	3	0.29
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	3	0.29
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	3	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	1	0.28
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	1	0.28
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	1	0.28
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	1	0.28
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	1	0.28
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	1	0.28
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	1	0.28
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	1	0.28
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	1	0.28
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	1	0.28
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	1	0.28
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	1	0.28
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	1	0.28
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	1	0.28
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	1	0.28
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	1	0.28
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	1	0.28
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	1	0.28
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	3	0.28
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	3	0.28
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	3	0.28
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	3	0.28
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	3	0.28
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	3	0.28
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	3	0.28
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	3	0.28
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	3	0.28
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	3	0.28
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	3	0.28
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	3	0.28
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	3	0.28
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	3	0.28
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	3	0.28
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	3	0.28
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	3	0.28
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	3	0.28
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	7	0.28
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	7	0.28
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	7	0.28
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	7	0.28
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	7	0.28
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	2	0.28
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	2	0.28
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	2	0.28
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	2	0.28
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	2	0.28
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	2	0.28
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	8	0.27
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	8	0.27
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	8	0.27
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	8	0.27
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	8	0.27
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	8	0.27
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	8	0.27
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	8	0.27
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	8	0.27
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	8	0.27
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	8	0.27
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	8	0.27
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	8	0.27
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	8	0.27
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	8	0.27
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	8	0.27
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	8	0.27
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	8	0.27
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	1	0.27
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	1	0.27
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	5	0.27
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	5	0.27
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	5	0.27
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	5	0.27
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	5	0.27
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	5	0.27
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	7	0.27
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	7	0.27
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	7	0.27
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	7	0.27
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	7	0.27
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	7	0.27
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	8	0.27
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	8	0.27
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	4	0.26
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	5	0.26
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	5	0.26
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	5	0.26
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	5	0.26
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	5	0.26
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	5	0.26
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	4	0.25
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	4	0.25
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	4	0.25
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	4	0.25
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	4	0.25
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	4	0.25
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	4	0.25
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	4	0.25
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	4	0.25
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H71	4	0.25
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H72	4	0.25
(1,89)	1:B:21:C5L:H71	1:B:20:T39:H73	4	0.25
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H71	4	0.25
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H72	4	0.25
(1,89)	1:B:21:C5L:H72	1:B:20:T39:H73	4	0.25
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H71	4	0.25
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H72	4	0.25
(1,89)	1:B:21:C5L:H73	1:B:20:T39:H73	4	0.25
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	2	0.25
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	2	0.25
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	2	0.25
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	2	0.25
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	2	0.25
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	2	0.25
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	9	0.25
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	9	0.25
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	9	0.25
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	9	0.25
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	9	0.25
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	9	0.25
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	3	0.24
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	3	0.24
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	6	0.24
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	6	0.24
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	8	0.24
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	8	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	9	0.24
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	9	0.24
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	4	0.24
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	4	0.24
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	4	0.24
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	4	0.24
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	4	0.24
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	4	0.24
(1,2)	1:B:13:C5L:H2'	1:B:14:G48:H8	9	0.24
(1,2)	1:B:13:C5L:H2'	1:B:14:G48:H8	9	0.24
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	5	0.24
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	5	0.24
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	5	0.24
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	5	0.24
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	5	0.24
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	5	0.24
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	1	0.24
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	1	0.24
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	1	0.24
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	1	0.24
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	7	0.24
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	7	0.24
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	7	0.24
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	7	0.24
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	1	0.24
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	1	0.24
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	1	0.24
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	1	0.24
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	8	0.24
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	8	0.24
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	8	0.24
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	8	0.24
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	1	0.24
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	1	0.24
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	1	0.23
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	1	0.23
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	1	0.23
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	1	0.23
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	1	0.23
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	1	0.23
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	3	0.23
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	3	0.23
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	3	0.23
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	3	0.23
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	3	0.23
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	6	0.23
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	6	0.23
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	6	0.23
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	6	0.23
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	6	0.23
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	6	0.23
(1,50)	1:B:18:A44:H3'	1:B:19:T39:H6	9	0.23
(1,50)	1:B:18:A44:H3'	1:B:19:T39:H6	9	0.23
(1,2)	1:B:13:C5L:H2'	1:B:14:G48:H8	1	0.23
(1,2)	1:B:13:C5L:H2'	1:B:14:G48:H8	1	0.23
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	2	0.22
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	2	0.22
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	2	0.22
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	2	0.22
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	2	0.22
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	2	0.22
(1,7)	1:B:13:C5L:H6	1:B:14:G48:H8	6	0.22
(1,7)	1:B:13:C5L:H6	1:B:14:G48:H8	6	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	3	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	3	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	3	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	3	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	3	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	3	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	5	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	5	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	5	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	5	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	5	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	5	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	6	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	6	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	6	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	6	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	6	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	6	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	7	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	7	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	7	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	7	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	7	0.22
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	7	0.22
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	1	0.22
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	1	0.22
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	1	0.22
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	1	0.22
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	1	0.22
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	1	0.22
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	8	0.22
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	8	0.22
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	8	0.22
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H73	8	0.22
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H71	8	0.22
(1,51)	1:B:18:A44:H3'	1:B:19:T39:H72	8	0.22
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	3	0.22
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	3	0.22
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	6	0.22
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	6	0.22
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	9	0.22
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	9	0.22
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	9	0.22
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	9	0.22
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA1	7	0.22
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA2	7	0.22
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA1	7	0.22
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA2	7	0.22
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA1	8	0.22
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA2	8	0.22
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA1	8	0.22
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA2	8	0.22
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	2	0.22
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	2	0.22
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	5	0.22
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	5	0.22
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	8	0.21
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	8	0.21
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	8	0.21
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	8	0.21
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	8	0.21
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	9	0.21
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	9	0.21
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	9	0.21
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	9	0.21
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	9	0.21
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	9	0.21
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	8	0.21
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	8	0.21
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	8	0.21
(1,65)	1:B:19:T39:H6	1:B:19:T39:H73	8	0.21
(1,65)	1:B:19:T39:H6	1:B:19:T39:H71	8	0.21
(1,65)	1:B:19:T39:H6	1:B:19:T39:H72	8	0.21
(1,50)	1:B:18:A44:H3'	1:B:19:T39:H6	4	0.21
(1,50)	1:B:18:A44:H3'	1:B:19:T39:H6	4	0.21
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H71	4	0.21
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H72	4	0.21
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H73	4	0.21
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H71	4	0.21
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H72	4	0.21
(1,17)	1:B:14:G48:H8	1:B:13:C5L:H73	4	0.21
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA1	2	0.21
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA2	2	0.21
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA1	2	0.21
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA2	2	0.21
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA1	9	0.21
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA2	9	0.21
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA1	9	0.21
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA2	9	0.21
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	6	0.21
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	6	0.21
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	8	0.21
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	8	0.21
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	4	0.2
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	4	0.2
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	4	0.2
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	4	0.2
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	4	0.2
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	4	0.2
(1,76)	1:B:20:T39:H3'	1:B:21:C5L:H6	2	0.2
(1,76)	1:B:20:T39:H3'	1:B:21:C5L:H6	2	0.2
(1,5)	1:B:13:C5L:H6	1:B:13:C5L:H3'	2	0.2
(1,5)	1:B:13:C5L:H6	1:B:13:C5L:H3'	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	3	0.2
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	3	0.2
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	3	0.2
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	3	0.2
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	4	0.2
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	4	0.2
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA2	4	0.2
(1,113)	1:B:14:G48:H1'	1:B:14:G48:HCA1	4	0.2
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H71	5	0.2
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H72	5	0.2
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H73	5	0.2
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H71	5	0.2
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H72	5	0.2
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H73	5	0.2
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H71	7	0.2
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H72	7	0.2
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H73	7	0.2
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H71	7	0.2
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H72	7	0.2
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H73	7	0.2
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	3	0.2
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	3	0.2
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	9	0.2
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	9	0.2
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H71	8	0.19
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H72	8	0.19
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H73	8	0.19
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H71	8	0.19
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H72	8	0.19
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H73	8	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	3	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	3	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	3	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	3	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	3	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	3	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	5	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	5	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	5	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	5	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	5	0.19
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	5	0.19

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

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	1	0.18
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	1	0.18
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	7	0.18
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	7	0.18
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	7	0.18
(1,79)	1:B:20:T39:H6	1:B:20:T39:H71	7	0.18
(1,79)	1:B:20:T39:H6	1:B:20:T39:H72	7	0.18
(1,79)	1:B:20:T39:H6	1:B:20:T39:H73	7	0.18
(1,61)	1:B:19:T39:H3'	1:B:20:T39:H71	2	0.18
(1,61)	1:B:19:T39:H3'	1:B:20:T39:H72	2	0.18
(1,61)	1:B:19:T39:H3'	1:B:20:T39:H73	2	0.18
(1,61)	1:B:19:T39:H3'	1:B:20:T39:H71	2	0.18
(1,61)	1:B:19:T39:H3'	1:B:20:T39:H72	2	0.18
(1,61)	1:B:19:T39:H3'	1:B:20:T39:H73	2	0.18
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	1	0.18
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	1	0.18
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	4	0.18
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	4	0.18
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	4	0.18
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	4	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H71	3	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H72	3	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H73	3	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H71	3	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H72	3	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H73	3	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H71	4	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H72	4	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H73	4	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H71	4	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H72	4	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H73	4	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H71	9	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H72	9	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H73	9	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H71	9	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H72	9	0.18
(1,108)	1:B:23:C5L:H6	1:B:23:C5L:H73	9	0.18
(1,7)	1:B:13:C5L:H6	1:B:14:G48:H8	7	0.17
(1,7)	1:B:13:C5L:H6	1:B:14:G48:H8	7	0.17
(1,5)	1:B:13:C5L:H6	1:B:13:C5L:H3'	7	0.17
(1,5)	1:B:13:C5L:H6	1:B:13:C5L:H3'	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	3	0.17
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	3	0.17
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	3	0.17
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	3	0.17
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	3	0.17
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	3	0.17
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	4	0.17
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	4	0.17
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	4	0.17
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	4	0.17
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	4	0.17
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	4	0.17
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	6	0.17
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	6	0.17
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	6	0.17
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	6	0.17
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	6	0.17
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	6	0.17
(1,109)	1:B:24:DG:H8	1:B:23:C5L:H2'	9	0.17
(1,109)	1:B:24:DG:H8	1:B:23:C5L:H2'	9	0.17
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	2	0.16
(1,84)	1:B:21:C5L:H6	1:B:20:T39:H7	2	0.16
(1,78)	1:B:20:T39:H6	1:B:19:T39:H7	2	0.16
(1,78)	1:B:20:T39:H6	1:B:19:T39:H7	2	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	2	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	2	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	2	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	2	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	2	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	2	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	7	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	7	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	7	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	7	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	7	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	7	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	8	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	8	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	8	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	8	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	8	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	9	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	9	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	9	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	9	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	9	0.16
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	9	0.16
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	2	0.16
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	2	0.16
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	2	0.16
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	2	0.16
(1,109)	1:B:24:DG:H8	1:B:23:C5L:H2'	1	0.16
(1,109)	1:B:24:DG:H8	1:B:23:C5L:H2'	1	0.16
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	4	0.16
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	4	0.16
(1,7)	1:B:13:C5L:H6	1:B:14:G48:H8	2	0.15
(1,7)	1:B:13:C5L:H6	1:B:14:G48:H8	2	0.15
(1,5)	1:B:13:C5L:H6	1:B:13:C5L:H3'	1	0.15
(1,5)	1:B:13:C5L:H6	1:B:13:C5L:H3'	1	0.15
(1,5)	1:B:13:C5L:H6	1:B:13:C5L:H3'	3	0.15
(1,5)	1:B:13:C5L:H6	1:B:13:C5L:H3'	3	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	1	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	1	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	1	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	1	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	1	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	1	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	5	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	5	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	5	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	5	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	5	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	5	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	6	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	6	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	6	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H71	6	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H72	6	0.15
(1,22)	1:B:15:C5L:H6	1:B:15:C5L:H73	6	0.15
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	1	0.15
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	1	0.15
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	1	0.15
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	1	0.15
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	1	0.15
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	6	0.15
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	6	0.15
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	6	0.15
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	6	0.15
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H71	1	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H72	1	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H73	1	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H71	1	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H72	1	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H73	1	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H71	8	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H72	8	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H73	8	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H71	8	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H72	8	0.14
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H73	8	0.14
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	2	0.14
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	2	0.14
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA2	2	0.14
(1,115)	1:B:16:G48:H1'	1:B:16:G48:HCA1	2	0.14
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	7	0.14
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	7	0.14
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA1	7	0.14
(1,112)	1:B:13:C5L:H1'	1:B:13:C5L:HCA2	7	0.14
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	7	0.14
(1,105)	1:B:23:C5L:H6	1:B:22:G48:H2'	7	0.14
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H71	9	0.13
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H72	9	0.13
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H73	9	0.13
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H71	9	0.13
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H72	9	0.13
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H73	9	0.13
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	7	0.13
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	7	0.13
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	7	0.13
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	7	0.13
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	7	0.13
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	7	0.13
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	7	0.13
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	7	0.13
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	7	0.13
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	7	0.13
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	7	0.13
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	7	0.13
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	7	0.13
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	7	0.13
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	7	0.13
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	7	0.13
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	7	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	1	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	1	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	1	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	1	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	1	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	1	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	8	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	8	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	8	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	8	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	8	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	8	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	9	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	9	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	9	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	9	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	9	0.13
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	9	0.13
(1,2)	1:B:13:C5L:H2'	1:B:14:G48:H8	8	0.13
(1,2)	1:B:13:C5L:H2'	1:B:14:G48:H8	8	0.13
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H71	9	0.13
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H72	9	0.13
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H73	9	0.13
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H71	9	0.13
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H72	9	0.13
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H73	9	0.13
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	7	0.13
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	7	0.13
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA1	3	0.13
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA2	3	0.13
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA1	3	0.13
(1,114)	1:B:15:C5L:H1'	1:B:15:C5L:HCA2	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:B:24:DG:H8	1:B:23:C5L:H2'	3	0.13
(1,109)	1:B:24:DG:H8	1:B:23:C5L:H2'	3	0.13
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H71	7	0.12
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H72	7	0.12
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H73	7	0.12
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H71	7	0.12
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H72	7	0.12
(1,94)	1:B:22:G48:H3'	1:B:23:C5L:H73	7	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	2	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	2	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	2	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	2	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	2	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	2	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	2	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	2	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	2	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	2	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	2	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	2	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	2	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	2	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	2	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	2	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	2	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	2	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	4	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	4	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	4	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	4	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	4	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	4	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	4	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	4	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	4	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	4	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	4	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	4	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	4	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	4	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	4	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	4	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	4	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	4	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	4	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	4	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	4	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	4	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	4	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	4	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	4	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	4	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	5	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	5	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	5	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	5	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	5	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	5	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	5	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	5	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	5	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	5	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	5	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	5	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	5	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	5	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	5	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	5	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	5	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	5	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	8	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	8	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	8	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	8	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	8	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	8	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	8	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	8	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	8	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	8	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	8	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	8	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	8	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	8	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	8	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	8	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	8	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	8	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	8	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	8	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	8	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	8	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	8	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	8	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	8	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	8	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	8	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	9	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	9	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	9	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	9	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	9	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	9	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	9	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	9	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	9	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	9	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	9	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	9	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	9	0.12
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	9	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	9	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	9	0.12
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	9	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	2	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	2	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	2	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	2	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	2	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	2	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	3	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	3	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	3	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	3	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	3	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	3	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	4	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	4	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	4	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	4	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	4	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	4	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	5	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	5	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	5	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	5	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	5	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	5	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	6	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	6	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	6	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	6	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	6	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	7	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	7	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	7	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H71	7	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H72	7	0.12
(1,6)	1:B:13:C5L:H6	1:B:13:C5L:H73	7	0.12
(1,50)	1:B:18:A44:H3'	1:B:19:T39:H6	2	0.12
(1,50)	1:B:18:A44:H3'	1:B:19:T39:H6	2	0.12
(1,50)	1:B:18:A44:H3'	1:B:19:T39:H6	8	0.12
(1,50)	1:B:18:A44:H3'	1:B:19:T39:H6	8	0.12
(1,2)	1:B:13:C5L:H2'	1:B:14:G48:H8	3	0.12
(1,2)	1:B:13:C5L:H2'	1:B:14:G48:H8	3	0.12
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H71	3	0.12
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H72	3	0.12
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H73	3	0.12
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H71	3	0.12
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H72	3	0.12
(1,19)	1:B:14:G48:H8	1:B:15:C5L:H73	3	0.12
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	2	0.12
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	2	0.12
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	1	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	1	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	1	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	1	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	1	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	1	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	1	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	1	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	1	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	1	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	1	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	1	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	1	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	1	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	1	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	1	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	1	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	1	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	3	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	3	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	3	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	3	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	3	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	3	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	3	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	3	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	3	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	3	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	3	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	3	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	3	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	3	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	3	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	3	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	3	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	6	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	6	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	6	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	6	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	6	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	6	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	6	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	6	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	6	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	6	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	6	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	6	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	6	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	6	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	6	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	6	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	6	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	6	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H73	6	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H71	6	0.11
(1,81)	1:B:20:T39:H71	1:B:19:T39:H72	6	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H73	6	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H71	6	0.11
(1,81)	1:B:20:T39:H72	1:B:19:T39:H72	6	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H73	6	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H71	6	0.11
(1,81)	1:B:20:T39:H73	1:B:19:T39:H72	6	0.11
(1,27)	1:B:16:G48:H8	1:B:15:C5L:H71	1	0.11
(1,27)	1:B:16:G48:H8	1:B:15:C5L:H72	1	0.11
(1,27)	1:B:16:G48:H8	1:B:15:C5L:H73	1	0.11
(1,27)	1:B:16:G48:H8	1:B:15:C5L:H71	1	0.11
(1,27)	1:B:16:G48:H8	1:B:15:C5L:H72	1	0.11
(1,27)	1:B:16:G48:H8	1:B:15:C5L:H73	1	0.11
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	9	0.11
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	9	0.11
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H71	9	0.11
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H72	9	0.11
(1,15)	1:B:14:G48:H3'	1:B:15:C5L:H73	9	0.11
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	9	0.11
(1,141)	1:B:19:T39:H3	1:B:17:A44:H61	9	0.11
(1,109)	1:B:24:DG:H8	1:B:23:C5L:H2'	2	0.11
(1,109)	1:B:24:DG:H8	1:B:23:C5L:H2'	2	0.11

10 Dihedral-angle violation analysis

Dihedral angle analysis failed due to data error in the dihedral angle restraints, possibly missing target value