



Full wwPDB NMR Structure Validation Report ⓘ

Jun 6, 2023 – 07:57 pm BST

PDB ID : 6GE1
BMRB ID : 34265
Title : Solution structure of the r(UGGUGGU)₄ RNA quadruplex
Authors : Andralojc, W.; Gdaniec, Z.
Deposited on : 2018-04-25

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A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
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

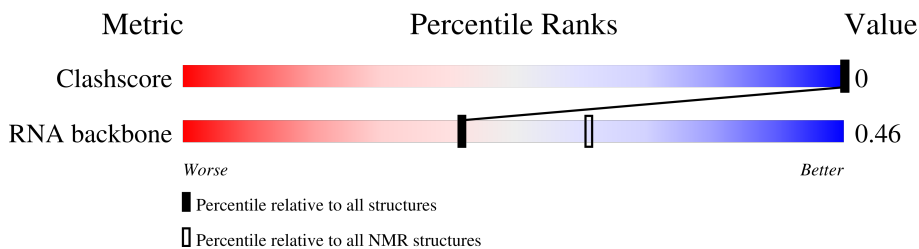
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 20%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashescore	158937	12864
RNA backbone	4643	676

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

Mol	Chain	Length	Quality of chain
1	A	7	
1	B	7	
1	C	7	
1	D	7	

2 Ensemble composition and analysis

This entry contains 15 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 900 atoms, of which 304 are hydrogens and 0 are deuteriums.

- Molecule 1 is a RNA chain called RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3').

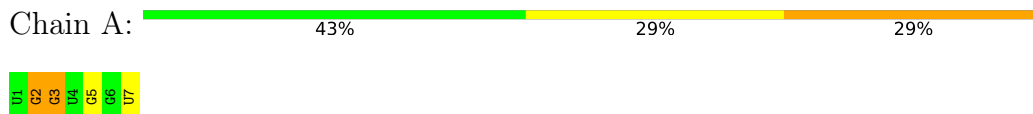
Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		P
1	A	7	225	67	76	26	50	6	0
1	B	7	225	67	76	26	50	6	0
1	C	7	225	67	76	26	50	6	0
1	D	7	225	67	76	26	50	6	0

4 Residue-property plots

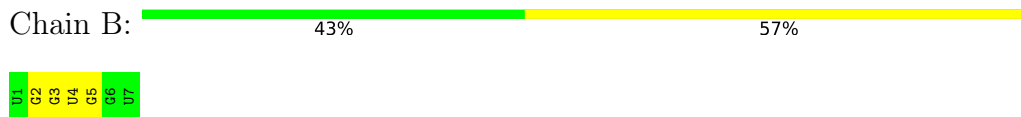
4.1 Average score per residue in the NMR ensemble

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(*UP*GP*GP*UP*GP*GP*U)-3')



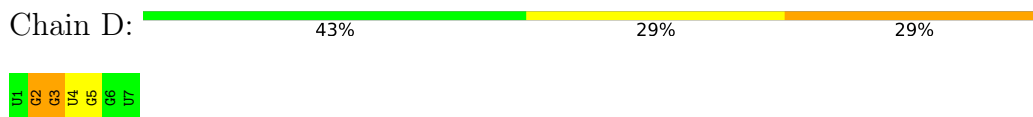
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



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

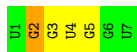
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain A:  57% 43%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain B:  43% 43% 14%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain C:  57% 43%



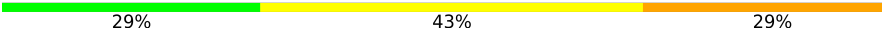
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain D:  29% 43% 29%



4.2.2 Score per residue for model 2

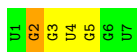
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain A:  29% 43% 29%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain B:  43% 43% 14%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain C:  43% 57%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain D:  43% 29% 29%

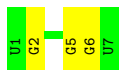


4.2.3 Score per residue for model 3

- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

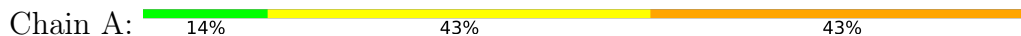


- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

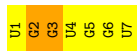


4.2.4 Score per residue for model 4

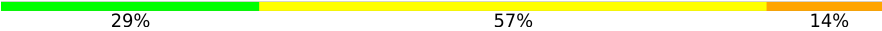
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain C:  29% 57% 14%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain D:  43% 29% 29%



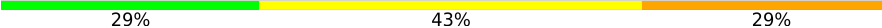
4.2.5 Score per residue for model 5

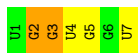
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain A:  43% 29% 29%



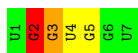
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain B:  29% 43% 29%

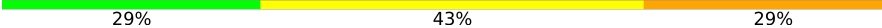


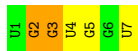
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain C:  43% 29% 14% 14%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain D:  29% 43% 29%



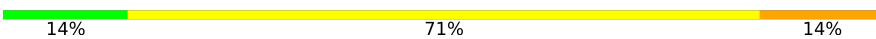
4.2.6 Score per residue for model 6

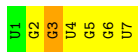
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain A:  43% 29% 29%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain B: 

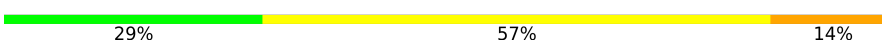


- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain C: 



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

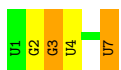
Chain D: 



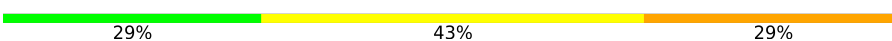
4.2.7 Score per residue for model 7

- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain A: 



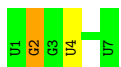
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain B: 



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain C: 



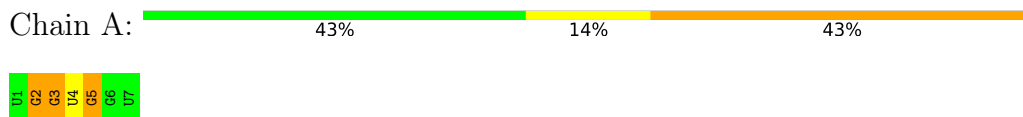
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain D: 



4.2.8 Score per residue for model 8

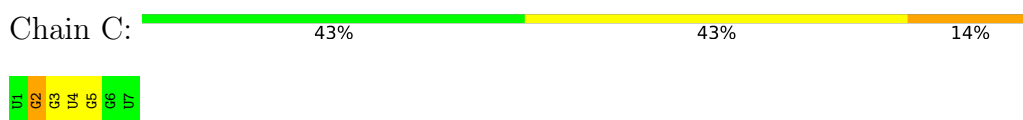
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



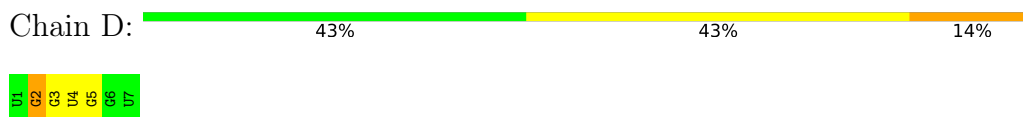
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

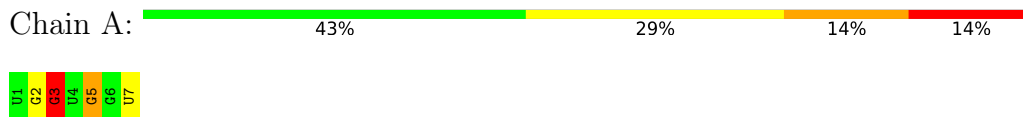


- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

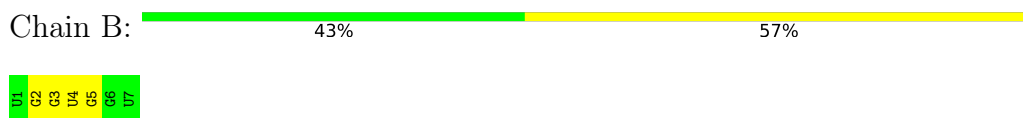


4.2.9 Score per residue for model 9

- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

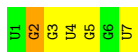
Chain D:  57% 29% 14%



4.2.10 Score per residue for model 10

- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain A:  29% 57% 14%



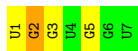
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain B:  57% 14% 29%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain C:  43% 43% 14%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain D:  43% 14% 43%



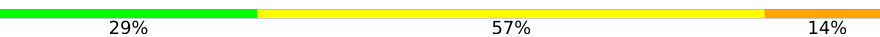
4.2.11 Score per residue for model 11

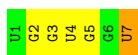
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain A:  57% 14% 29%

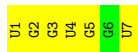


- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain B:  29% 57% 14%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



4.2.12 Score per residue for model 12

- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



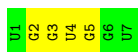
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



4.2.13 Score per residue for model 13

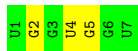
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain A:  57% 29% 14%

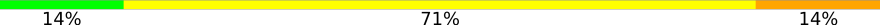


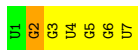
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain B:  57% 43%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain C:  14% 71% 14%



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain D:  43% 43% 14%



4.2.14 Score per residue for model 14

- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain A:  43% 43% 14%

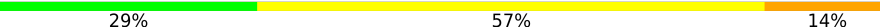


- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain B:  57% 29% 14%



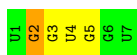
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain C:  29% 57% 14%



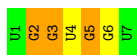
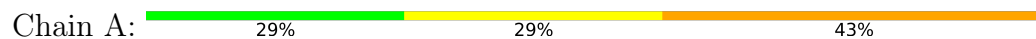
- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')

Chain D:  43% 43% 14%



4.2.15 Score per residue for model 15

- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



- Molecule 1: RNA (5'-R(*UP*GP*GP*UP*GP*GP*U)-3')



5 Refinement protocol and experimental data overview

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

Of the 400 calculated structures, 15 were deposited, based on the following criterion: *target function*.

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

Software name	Classification	Version
Amber	refinement	
Xplor-NIH	structure calculation	

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	3
Total number of shifts	220
Number of shifts mapped to atoms	219
Number of unparsed shifts	0
Number of shifts with mapping errors	1
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	20%

6 Model quality i

6.1 Standard geometry i

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	1.34±0.02	0±0/166 (0.0± 0.0%)	1.93±0.06	2±1/258 (0.7± 0.5%)
1	B	1.35±0.02	0±0/166 (0.0± 0.0%)	1.93±0.05	2±1/258 (0.7± 0.4%)
1	C	1.34±0.02	0±0/166 (0.0± 0.0%)	1.91±0.04	2±1/258 (0.7± 0.4%)
1	D	1.34±0.02	0±0/166 (0.0± 0.0%)	1.93±0.04	2±1/258 (0.7± 0.4%)
All	All	1.34	0/9960 (0.0%)	1.93	111/15480 (0.7%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	3.3±0.9
1	B	0.0±0.0	2.9±0.8
1	C	0.0±0.0	2.7±0.8
1	D	0.0±0.0	3.1±0.6
All	All	0	182

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	2	G	O4'-C1'-N9	9.44	115.75	108.20	8	7
1	C	2	G	O4'-C1'-N9	8.60	115.08	108.20	10	8
1	B	2	G	O4'-C1'-N9	8.58	115.06	108.20	5	6
1	A	4	U	O4'-C1'-N1	7.48	114.19	108.20	8	5
1	D	7	U	O4'-C1'-N1	6.61	113.49	108.20	6	5
1	D	4	U	O4'-C1'-N1	6.43	113.35	108.20	1	7
1	B	2	G	N3-C2-N2	-6.40	115.42	119.90	15	3
1	D	2	G	O4'-C1'-N9	6.29	113.23	108.20	14	10
1	C	7	U	O4'-C1'-N1	6.00	113.00	108.20	14	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	5	G	C8-N9-C4	-5.93	104.03	106.40	8	2
1	D	2	G	N3-C2-N2	-5.79	115.84	119.90	7	1
1	A	6	G	N3-C2-N2	-5.73	115.89	119.90	15	2
1	C	4	U	O4'-C1'-N1	5.73	112.79	108.20	6	8
1	A	7	U	O4'-C1'-N1	5.70	112.76	108.20	1	4
1	B	4	U	O4'-C1'-N1	5.67	112.74	108.20	4	10
1	B	7	U	O4'-C1'-N1	5.47	112.58	108.20	12	4
1	C	5	G	N3-C2-N2	-5.43	116.10	119.90	14	1
1	C	7	U	N3-C2-O2	-5.39	118.43	122.20	4	4
1	C	6	G	N3-C2-N2	-5.31	116.18	119.90	12	1
1	A	5	G	N3-C2-N2	-5.27	116.21	119.90	15	2
1	A	7	U	N3-C2-O2	-5.22	118.54	122.20	10	3
1	B	6	G	O4'-C1'-N9	5.22	112.38	108.20	3	1
1	A	2	G	N3-C2-N2	-5.18	116.27	119.90	2	1
1	B	1	U	N3-C2-O2	-5.13	118.61	122.20	12	1
1	B	3	G	N3-C4-C5	-5.11	126.05	128.60	10	1
1	D	4	U	N3-C2-O2	-5.10	118.63	122.20	1	1
1	D	5	G	N3-C4-C5	-5.08	126.06	128.60	9	1
1	D	6	G	N3-C4-C5	-5.08	126.06	128.60	4	1
1	B	6	G	N3-C2-N2	-5.07	116.35	119.90	6	2
1	D	3	G	N3-C4-C5	-5.06	126.07	128.60	10	1
1	A	3	G	C5-C6-N1	5.04	114.02	111.50	9	1
1	C	6	G	O4'-C1'-N9	5.03	112.22	108.20	13	1
1	A	3	G	N3-C4-C5	-5.01	126.09	128.60	5	1

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	2	G	Sidechain	15
1	B	2	G	Sidechain	15
1	C	2	G	Sidechain	15
1	D	2	G	Sidechain	15
1	D	5	G	Sidechain	15
1	B	5	G	Sidechain	14
1	A	3	G	Sidechain	13
1	C	5	G	Sidechain	13
1	D	3	G	Sidechain	13
1	A	5	G	Sidechain	12
1	B	3	G	Sidechain	9

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Mol	Chain	Res	Type	Group	Models (Total)
1	C	3	G	Sidechain	8
1	A	7	U	Sidechain	5
1	C	1	U	Sidechain	4
1	A	1	U	Sidechain	3
1	D	7	U	Sidechain	2
1	B	1	U	Sidechain	2
1	B	7	U	Sidechain	2
1	A	6	G	Sidechain	1
1	C	4	U	Sidechain	1
1	D	4	U	Sidechain	1
1	B	6	G	Sidechain	1
1	B	4	U	Sidechain	1
1	A	4	U	Sidechain	1
1	D	1	U	Sidechain	1

6.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
All	All	8940	4560	4560	-

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is -.

There are no clashes.

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

6.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

6.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers	Suiteness
1	A	6/7 (86%)	1±0 (14±8%)	0±0 (0±0%)	0.47±0.06
1	B	6/7 (86%)	1±1 (9±10%)	0±0 (0±0%)	0.47±0.10
1	C	6/7 (86%)	1±0 (11±8%)	0±0 (1±4%)	0.46±0.07
1	D	6/7 (86%)	1±0 (13±7%)	0±0 (0±0%)	0.45±0.07
All	All	360/420 (86%)	43 (12%)	1 (0%)	0.46

The overall RNA backbone suiteness is 0.46.

All unique RNA backbone outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
1	A	3	G	12
1	D	3	G	12
1	C	3	G	10
1	B	3	G	7
1	B	7	U	1
1	A	7	U	1

All unique RNA pucker outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
1	C	2	G	1

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 20% for the well-defined parts and 20% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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

Total number of shifts	102
Number of shifts mapped to atoms	101
Number of unparsed shifts	0
Number of shifts with mapping errors	1
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

The following assigned chemical shifts were not mapped to the molecules present in the coordinate file.

- No matching atom found in the structure. All 1 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	1	U	P	-1.237	0.05	1

7.1.2 Chemical shift referencing

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

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 17%, i.e. 89 atoms were assigned a chemical shift out of a possible 524. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Sugar	76/308 (25%)	41/168 (24%)	35/140 (25%)	0/0 (—%)
Base	13/216 (6%)	7/132 (5%)	6/40 (15%)	0/44 (0%)
Overall	89/524 (17%)	48/300 (16%)	41/180 (23%)	0/44 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 17%, i.e. 89 atoms were assigned a chemical shift out of a possible 524. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Sugar	76/308 (25%)	41/168 (24%)	35/140 (25%)	0/0 (—%)
Base	13/216 (6%)	7/132 (5%)	6/40 (15%)	0/44 (0%)
Overall	89/524 (17%)	48/300 (16%)	41/180 (23%)	0/44 (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

7.2 Chemical shift list 2

File name: working_cs.cif

Chemical shift list name: *NMRstar_5C_K_assigned_chem_shift_list_1*

7.2.1 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	67
Number of shifts mapped to atoms	67
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

7.2.2 Chemical shift referencing [i](#)

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

7.2.3 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 11%, i.e. 60 atoms were assigned a chemical shift out of a possible 524. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Sugar	39/308 (13%)	39/168 (23%)	0/140 (0%)	0/0 (—%)
Base	21/216 (10%)	21/132 (16%)	0/40 (0%)	0/44 (0%)
Overall	60/524 (11%)	60/300 (20%)	0/180 (0%)	0/44 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 11%, i.e. 60 atoms were assigned a chemical shift out of a possible 524. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Sugar	39/308 (13%)	39/168 (23%)	0/140 (0%)	0/0 (—%)
Base	21/216 (10%)	21/132 (16%)	0/40 (0%)	0/44 (0%)
Overall	60/524 (11%)	60/300 (20%)	0/180 (0%)	0/44 (0%)

7.2.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

7.2.5 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

7.3 Chemical shift list 3

File name: working_cs.cif

Chemical shift list name: *NMRstar_25C_K_assigned_chem_shift_list_1*

7.3.1 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	51
Number of shifts mapped to atoms	51
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

7.3.2 Chemical shift referencing [i](#)

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

7.3.3 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 9%, i.e. 48 atoms were assigned a chemical shift out of a possible 524. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Sugar	41/308 (13%)	41/168 (24%)	0/140 (0%)	0/0 (—%)
Base	7/216 (3%)	7/132 (5%)	0/40 (0%)	0/44 (0%)
Overall	48/524 (9%)	48/300 (16%)	0/180 (0%)	0/44 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 9%, i.e. 48 atoms were assigned a chemical shift out of a possible 524. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Sugar	41/308 (13%)	41/168 (24%)	0/140 (0%)	0/0 (—%)
Base	7/216 (3%)	7/132 (5%)	0/40 (0%)	0/44 (0%)
Overall	48/524 (9%)	48/300 (16%)	0/180 (0%)	0/44 (0%)

7.3.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

7.3.5 Random Coil Index (RCI) plots

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

8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	160
Intra-residue ($ i-j =0$)	78
Sequential ($ i-j =1$)	79
Medium range ($ i-j >1$ and $ i-j <5$)	0
Long range ($ i-j \geq 5$)	0
Inter-chain	3
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	96
Number of unmapped restraints	0
Number of restraints per residue	9.1
Number of long range restraints per residue ¹	0.0

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)	6.7	0.2
0.2-0.5 (Medium)	8.0	0.5
>0.5 (Large)	4.5	4.83

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

Dihedral-angle violations less than 1° are not included in the calculation.

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	11.0	9.9
10.0-20.0 (Medium)	0.2	19.5
>20.0 (Large)	0.1	26.3

9 Distance violation analysis [i](#)

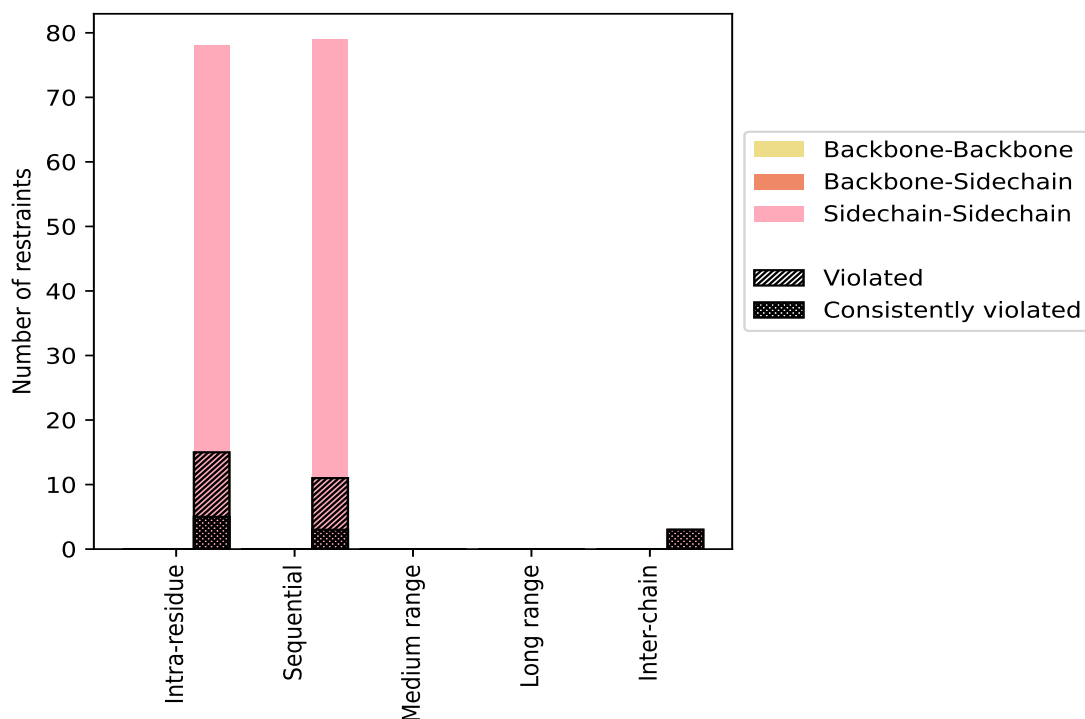
9.1 Summary of distance violations [i](#)

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 ($i-j =0$)	78	48.8	15	19.2	9.4	5	6.4	3.1
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	78	48.8	15	19.2	9.4	5	6.4	3.1
Sequential ($i-j =1$)	79	49.4	11	13.9	6.9	3	3.8	1.9
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	79	49.4	11	13.9	6.9	3	3.8	1.9
Medium range ($i-j >1$ & $i-j <5$)	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
Long range ($i-j \geq 5$)	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
Inter-chain	3	1.9	3	100.0	1.9	3	100.0	1.9
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	3	1.9	3	100.0	1.9	3	100.0	1.9
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	160	100.0	29	18.1	18.1	11	6.9	6.9
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	160	100.0	29	18.1	18.1	11	6.9	6.9

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

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



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and 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	11	6	0	0	3	20	0.86	4.7	1.48	0.23
2	11	6	0	0	3	20	0.86	4.72	1.49	0.24
3	10	5	0	0	3	18	0.94	4.7	1.55	0.24
4	11	5	0	0	3	19	0.91	4.74	1.55	0.22
5	12	5	0	0	3	20	0.87	4.81	1.49	0.25
6	10	5	0	0	3	18	0.96	4.78	1.56	0.28
7	9	5	0	0	3	17	0.98	4.63	1.57	0.27
8	8	7	0	0	3	18	0.98	4.79	1.56	0.28
9	10	6	0	0	3	19	0.93	4.83	1.52	0.28
10	12	7	0	0	3	22	0.81	4.74	1.43	0.26
11	11	6	0	0	3	20	0.85	4.78	1.46	0.24

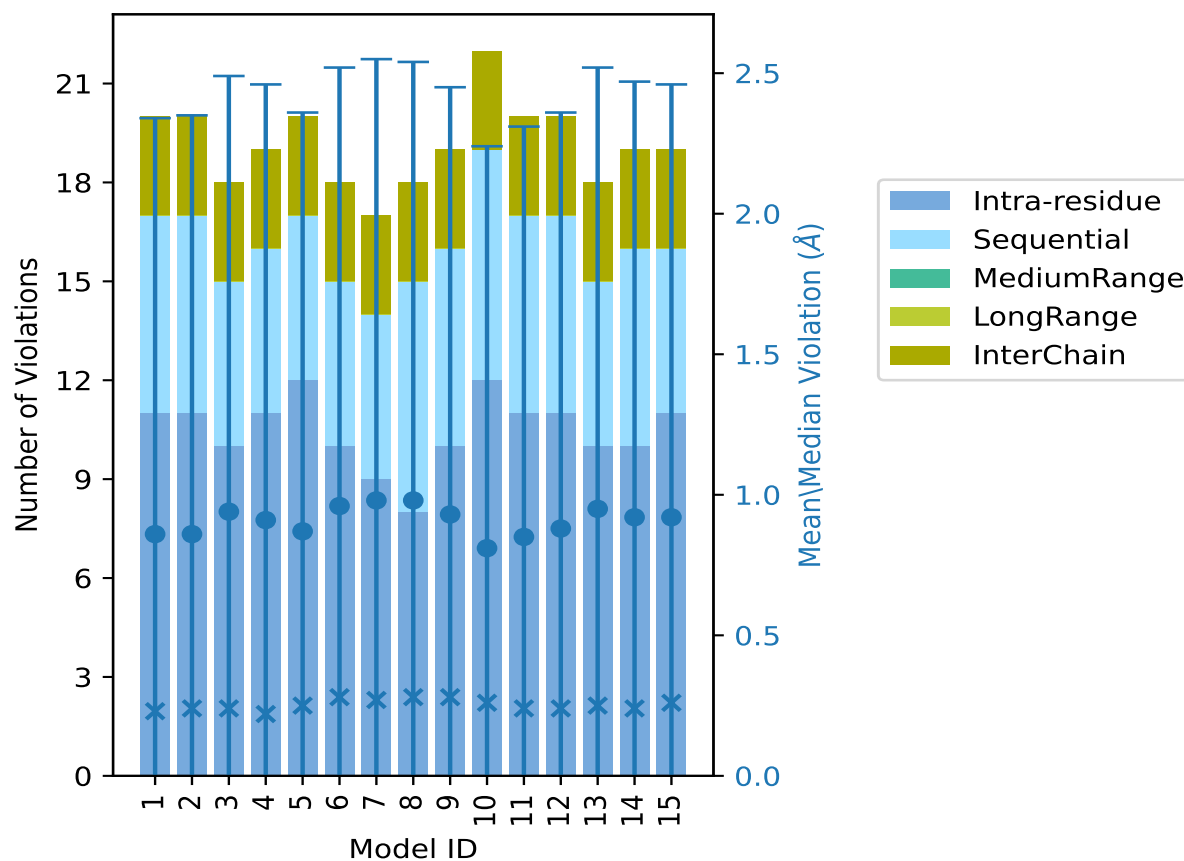
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
12	11	6	0	0	3	20	0.88	4.78	1.48	0.24
13	10	5	0	0	3	18	0.95	4.81	1.57	0.25
14	10	6	0	0	3	19	0.92	4.83	1.55	0.24
15	11	5	0	0	3	19	0.92	4.8	1.54	0.26

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

9.2.1 Bar graph : Distance Violation statistics for each model [i](#)



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

9.3 Distance violation statistics for the ensemble [i](#)

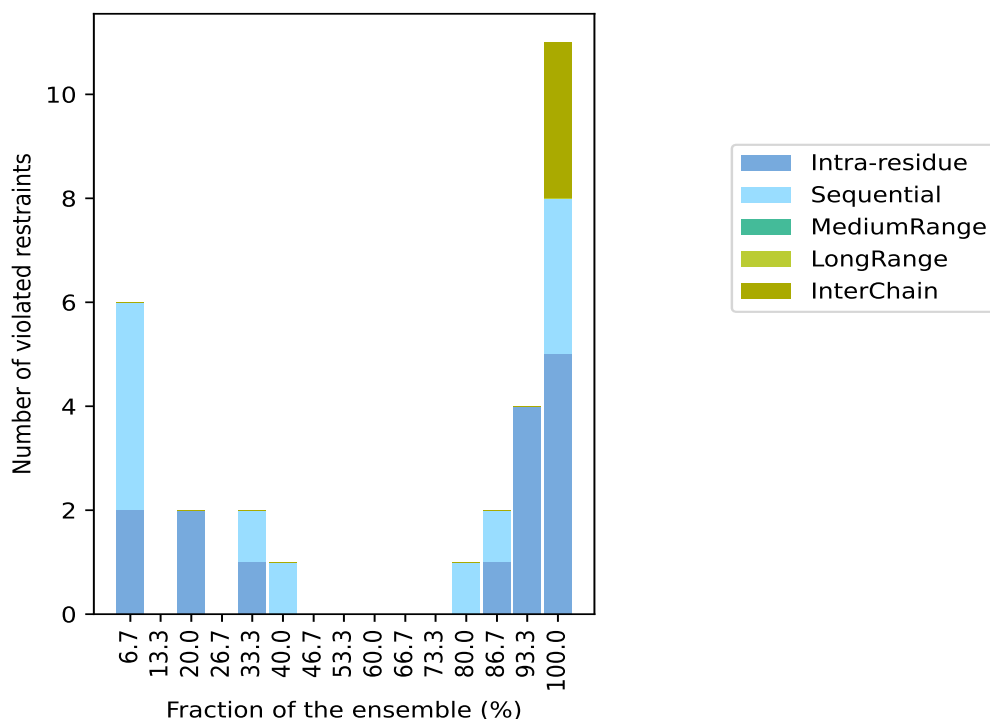
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints

for a given fraction of the ensemble. In total, 131(IR:63, SQ:68, MR:0, 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	%
2	4	0	0	0	6	1	6.7
0	0	0	0	0	0	2	13.3
2	0	0	0	0	2	3	20.0
0	0	0	0	0	0	4	26.7
1	1	0	0	0	2	5	33.3
0	1	0	0	0	1	6	40.0
0	0	0	0	0	0	7	46.7
0	0	0	0	0	0	8	53.3
0	0	0	0	0	0	9	60.0
0	0	0	0	0	0	10	66.7
0	0	0	0	0	0	11	73.3
0	1	0	0	0	1	12	80.0
1	1	0	0	0	2	13	86.7
4	0	0	0	0	4	14	93.3
5	3	0	0	3	11	15	100.0

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

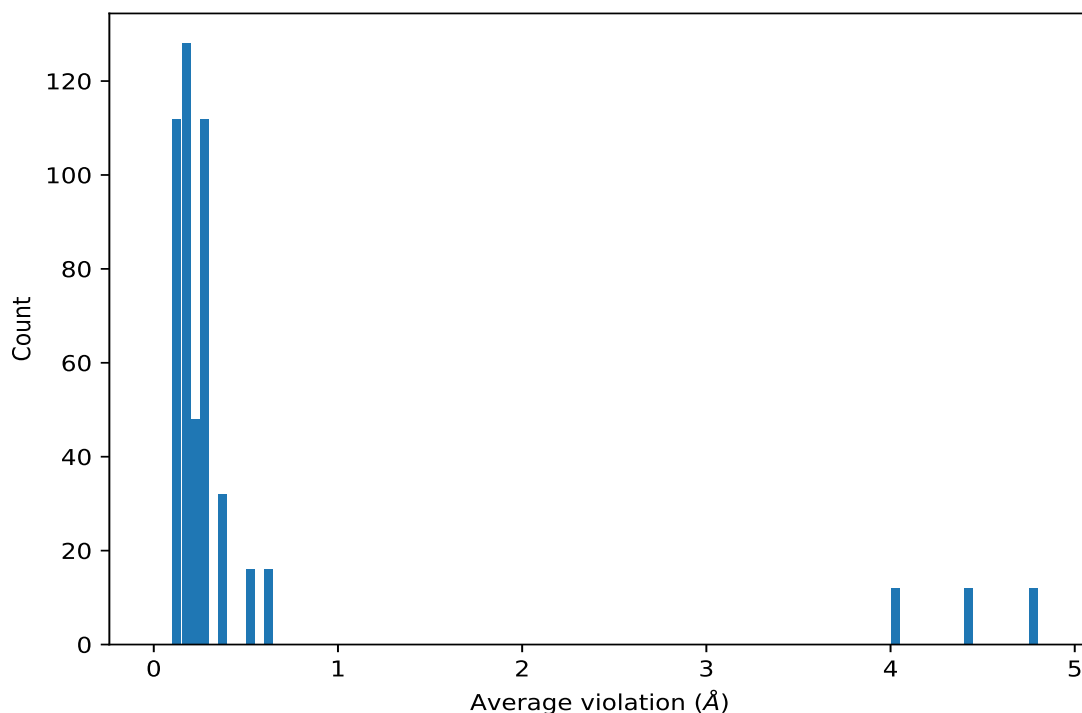
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	15	4.76	0.05	4.78
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	15	4.76	0.05	4.78
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	15	4.76	0.05	4.78
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	15	4.76	0.05	4.78
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	15	4.76	0.05	4.78
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	15	4.76	0.05	4.78
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	15	4.76	0.05	4.78
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	15	4.76	0.05	4.78
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	15	4.76	0.05	4.78
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	15	4.76	0.05	4.78
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	15	4.76	0.05	4.78
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	15	4.76	0.05	4.78
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	15	4.41	0.06	4.43
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	15	4.41	0.06	4.43
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	15	4.41	0.06	4.43
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	15	4.41	0.06	4.43

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	15	4.41	0.06	4.43
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	15	4.41	0.06	4.43
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	15	4.41	0.06	4.43
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	15	4.41	0.06	4.43
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	15	4.41	0.06	4.43
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	15	4.41	0.06	4.43
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	15	4.41	0.06	4.43
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	15	4.41	0.06	4.43
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	15	4.04	0.12	4.05
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	15	4.04	0.12	4.05
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	15	4.04	0.12	4.05
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	15	4.04	0.12	4.05
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	15	4.04	0.12	4.05
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	15	4.04	0.12	4.05
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	15	4.04	0.12	4.05
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	15	4.04	0.12	4.05
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	15	4.04	0.12	4.05
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	15	4.04	0.12	4.05
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	15	4.04	0.12	4.05
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	15	4.04	0.12	4.05
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	15	0.6	0.01	0.6
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	15	0.6	0.01	0.6
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	15	0.5	0.05	0.5

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	15	0.5	0.05	0.5
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	15	0.5	0.05	0.5
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	15	0.27	0.01	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	15	0.27	0.01	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	15	0.27	0.01	0.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	15	0.27	0.0	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	15	0.27	0.0	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	15	0.27	0.0	0.27
(2,27)	1:A:4:U:H3	1:A:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:A:4:U:H3	1:B:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:A:4:U:H3	1:C:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:A:4:U:H3	1:D:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:B:4:U:H3	1:A:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:B:4:U:H3	1:B:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:B:4:U:H3	1:C:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:B:4:U:H3	1:D:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:C:4:U:H3	1:A:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:C:4:U:H3	1:B:5:G:H1	15	0.26	0.03	0.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,27)	1:C:4:U:H3	1:C:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:C:4:U:H3	1:D:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:D:4:U:H3	1:A:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:D:4:U:H3	1:B:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:D:4:U:H3	1:C:5:G:H1	15	0.26	0.03	0.26
(2,27)	1:D:4:U:H3	1:D:5:G:H1	15	0.26	0.03	0.26
(2,18)	1:A:3:G:H1	1:A:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:A:3:G:H1	1:B:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:A:3:G:H1	1:C:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:A:3:G:H1	1:D:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:B:3:G:H1	1:A:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:B:3:G:H1	1:B:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:B:3:G:H1	1:C:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:B:3:G:H1	1:D:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:C:3:G:H1	1:A:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:C:3:G:H1	1:B:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:C:3:G:H1	1:C:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:C:3:G:H1	1:D:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:D:3:G:H1	1:A:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:D:3:G:H1	1:B:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:D:3:G:H1	1:C:4:U:H3	15	0.25	0.04	0.24
(2,18)	1:D:3:G:H1	1:D:4:U:H3	15	0.25	0.04	0.24
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	15	0.24	0.04	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	15	0.24	0.04	0.23
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	15	0.24	0.04	0.23
(2,6)	1:A:2:G:H8	1:A:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:A:2:G:H8	1:B:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:A:2:G:H8	1:C:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:A:2:G:H8	1:D:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:B:2:G:H8	1:A:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:B:2:G:H8	1:B:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:B:2:G:H8	1:C:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:B:2:G:H8	1:D:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:C:2:G:H8	1:A:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:C:2:G:H8	1:B:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:C:2:G:H8	1:C:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:C:2:G:H8	1:D:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:D:2:G:H8	1:A:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:D:2:G:H8	1:B:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:D:2:G:H8	1:C:2:G:H21	15	0.23	0.03	0.24
(2,6)	1:D:2:G:H8	1:D:2:G:H21	15	0.23	0.03	0.24
(2,23)	1:A:4:U:H5	1:A:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:A:4:U:H5	1:B:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:A:4:U:H5	1:C:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:A:4:U:H5	1:D:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:B:4:U:H5	1:A:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:B:4:U:H5	1:B:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:B:4:U:H5	1:C:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:B:4:U:H5	1:D:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:C:4:U:H5	1:A:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:C:4:U:H5	1:B:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:C:4:U:H5	1:C:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:C:4:U:H5	1:D:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:D:4:U:H5	1:A:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:D:4:U:H5	1:B:4:U:H3	14	0.18	0.04	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,23)	1:D:4:U:H5	1:C:4:U:H3	14	0.18	0.04	0.18
(2,23)	1:D:4:U:H5	1:D:4:U:H3	14	0.18	0.04	0.18
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	14	0.17	0.04	0.16
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	14	0.17	0.04	0.16
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	14	0.17	0.04	0.16
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	14	0.17	0.04	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	14	0.17	0.04	0.16
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	14	0.17	0.04	0.16
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	14	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	14	0.13	0.01	0.13
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	14	0.13	0.01	0.13
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	13	0.19	0.04	0.19
(1,73)	1:A:3:G:H2'	1:A:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:A:3:G:H2'	1:B:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:A:3:G:H2'	1:C:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:A:3:G:H2'	1:D:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:B:3:G:H2'	1:A:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:B:3:G:H2'	1:B:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:B:3:G:H2'	1:C:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:B:3:G:H2'	1:D:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:C:3:G:H2'	1:A:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:C:3:G:H2'	1:B:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	13	0.19	0.04	0.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	13	0.19	0.04	0.19
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	13	0.19	0.04	0.19
(2,1)	1:A:1:U:H5	1:A:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:A:1:U:H5	1:B:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:A:1:U:H5	1:C:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:A:1:U:H5	1:D:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:B:1:U:H5	1:A:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:B:1:U:H5	1:B:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:B:1:U:H5	1:C:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:B:1:U:H5	1:D:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:C:1:U:H5	1:A:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:C:1:U:H5	1:B:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:C:1:U:H5	1:C:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:C:1:U:H5	1:D:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:D:1:U:H5	1:A:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:D:1:U:H5	1:B:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:D:1:U:H5	1:C:1:U:H3	13	0.18	0.04	0.17
(2,1)	1:D:1:U:H5	1:D:1:U:H3	13	0.18	0.04	0.17
(2,13)	1:A:2:G:H22	1:A:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:A:2:G:H22	1:B:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:A:2:G:H22	1:C:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:A:2:G:H22	1:D:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:B:2:G:H22	1:A:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:B:2:G:H22	1:B:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:B:2:G:H22	1:C:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:B:2:G:H22	1:D:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:C:2:G:H22	1:A:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:C:2:G:H22	1:B:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:C:2:G:H22	1:C:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:C:2:G:H22	1:D:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:D:2:G:H22	1:A:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:D:2:G:H22	1:B:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:D:2:G:H22	1:C:1:U:H5	12	0.28	0.12	0.3
(2,13)	1:D:2:G:H22	1:D:1:U:H5	12	0.28	0.12	0.3
(2,21)	1:A:3:G:H21	1:A:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:A:3:G:H21	1:B:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:A:3:G:H21	1:C:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:A:3:G:H21	1:D:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:B:3:G:H21	1:A:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:B:3:G:H21	1:B:4:U:H1'	6	0.14	0.01	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,21)	1:B:3:G:H21	1:C:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:B:3:G:H21	1:D:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:C:3:G:H21	1:A:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:C:3:G:H21	1:B:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:C:3:G:H21	1:C:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:C:3:G:H21	1:D:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:D:3:G:H21	1:A:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:D:3:G:H21	1:B:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:D:3:G:H21	1:C:4:U:H1'	6	0.14	0.01	0.14
(2,21)	1:D:3:G:H21	1:D:4:U:H1'	6	0.14	0.01	0.14
(2,37)	1:A:5:G:H21	1:A:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:A:5:G:H21	1:B:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:A:5:G:H21	1:C:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:A:5:G:H21	1:D:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:B:5:G:H21	1:A:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:B:5:G:H21	1:B:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:B:5:G:H21	1:C:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:B:5:G:H21	1:D:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:C:5:G:H21	1:A:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:C:5:G:H21	1:B:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:C:5:G:H21	1:C:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:C:5:G:H21	1:D:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:D:5:G:H21	1:A:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:D:5:G:H21	1:B:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:D:5:G:H21	1:C:6:G:H1	5	0.14	0.01	0.14
(2,37)	1:D:5:G:H21	1:D:6:G:H1	5	0.14	0.01	0.14
(1,68)	1:A:2:G:H5''	1:A:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:A:2:G:H5''	1:B:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:A:2:G:H5''	1:C:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:A:2:G:H5''	1:D:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:B:2:G:H5''	1:A:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:B:2:G:H5''	1:B:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:B:2:G:H5''	1:C:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:B:2:G:H5''	1:D:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:C:2:G:H5''	1:A:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:C:2:G:H5''	1:B:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:C:2:G:H5''	1:C:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:C:2:G:H5''	1:D:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:D:2:G:H5''	1:A:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:D:2:G:H5''	1:B:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:D:2:G:H5''	1:C:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:D:2:G:H5''	1:D:2:G:H3'	5	0.13	0.01	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,68)	1:A:2:G:H5'	1:A:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:A:2:G:H5'	1:B:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:A:2:G:H5'	1:C:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:A:2:G:H5'	1:D:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:B:2:G:H5'	1:A:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:B:2:G:H5'	1:B:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:B:2:G:H5'	1:C:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:B:2:G:H5'	1:D:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:C:2:G:H5'	1:A:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:C:2:G:H5'	1:B:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:C:2:G:H5'	1:C:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:C:2:G:H5'	1:D:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:D:2:G:H5'	1:A:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:D:2:G:H5'	1:B:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:D:2:G:H5'	1:C:2:G:H3'	5	0.13	0.01	0.12
(1,68)	1:D:2:G:H5'	1:D:2:G:H3'	5	0.13	0.01	0.12
(1,63)	1:A:1:U:H3'	1:A:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:A:1:U:H3'	1:B:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:A:1:U:H3'	1:C:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:A:1:U:H3'	1:D:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:B:1:U:H3'	1:A:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:B:1:U:H3'	1:B:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:B:1:U:H3'	1:C:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:B:1:U:H3'	1:D:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:C:1:U:H3'	1:A:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:C:1:U:H3'	1:B:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:C:1:U:H3'	1:C:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:C:1:U:H3'	1:D:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:D:1:U:H3'	1:A:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:D:1:U:H3'	1:B:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:D:1:U:H3'	1:C:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:D:1:U:H3'	1:D:1:U:H5'	3	0.35	0.03	0.35
(1,63)	1:A:1:U:H3'	1:A:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:A:1:U:H3'	1:B:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:A:1:U:H3'	1:C:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:A:1:U:H3'	1:D:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:B:1:U:H3'	1:A:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:B:1:U:H3'	1:B:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:B:1:U:H3'	1:C:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:B:1:U:H3'	1:D:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:C:1:U:H3'	1:A:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:C:1:U:H3'	1:B:1:U:H5''	3	0.35	0.03	0.35

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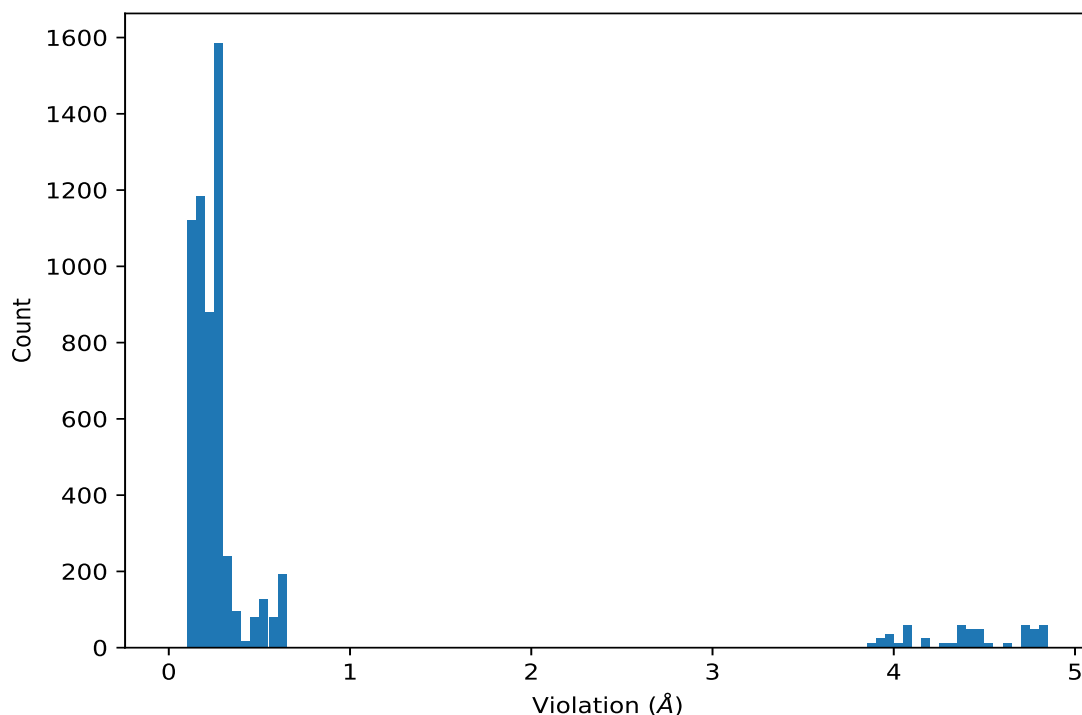
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,63)	1:C:1:U:H3'	1:C:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:C:1:U:H3'	1:D:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:D:1:U:H3'	1:A:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:D:1:U:H3'	1:B:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:D:1:U:H3'	1:C:1:U:H5''	3	0.35	0.03	0.35
(1,63)	1:D:1:U:H3'	1:D:1:U:H5''	3	0.35	0.03	0.35
(1,21)	1:A:5:G:H8	1:A:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:A:5:G:H8	1:B:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:A:5:G:H8	1:C:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:A:5:G:H8	1:D:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:B:5:G:H8	1:A:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:B:5:G:H8	1:B:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:B:5:G:H8	1:C:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:B:5:G:H8	1:D:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:C:5:G:H8	1:A:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:C:5:G:H8	1:B:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:C:5:G:H8	1:C:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:C:5:G:H8	1:D:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:D:5:G:H8	1:A:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:D:5:G:H8	1:B:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:D:5:G:H8	1:C:5:G:H3'	3	0.12	0.01	0.11
(1,21)	1:D:5:G:H8	1:D:5:G:H3'	3	0.12	0.01	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	9	4.83
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	9	4.83
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	9	4.83
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	9	4.83
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	9	4.83
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	9	4.83
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	9	4.83
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	9	4.83
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	9	4.83
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	9	4.83
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	9	4.83
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	9	4.83
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	14	4.83
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	14	4.83
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	14	4.83
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	14	4.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	14	4.83
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	14	4.83
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	14	4.83
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	14	4.83
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	14	4.83
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	14	4.83
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	14	4.83
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	14	4.83
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	5	4.81
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	5	4.81
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	5	4.81
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	5	4.81
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	5	4.81
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	5	4.81
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	5	4.81
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	5	4.81
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	5	4.81
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	5	4.81
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	5	4.81
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	5	4.81
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	13	4.81
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	13	4.81
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	13	4.81
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	13	4.81
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	13	4.81
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	13	4.81
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	13	4.81
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	13	4.81
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	13	4.81
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	13	4.81
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	13	4.81
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	13	4.81
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	15	4.8
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	15	4.8
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	15	4.8
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	15	4.8
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	15	4.8
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	15	4.8
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	15	4.8
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	15	4.8
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	15	4.8
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	15	4.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	15	4.8
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	15	4.8
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	8	4.79
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	8	4.79
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	8	4.79
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	8	4.79
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	8	4.79
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	8	4.79
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	8	4.79
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	8	4.79
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	8	4.79
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	8	4.79
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	8	4.79
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	8	4.79
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	6	4.78
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	6	4.78
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	6	4.78
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	6	4.78
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	6	4.78
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	6	4.78
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	6	4.78
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	6	4.78
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	6	4.78
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	6	4.78
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	6	4.78
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	6	4.78
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	11	4.78
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	11	4.78
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	11	4.78
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	11	4.78
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	11	4.78
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	11	4.78
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	11	4.78
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	11	4.78
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	11	4.78
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	11	4.78
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	11	4.78
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	11	4.78
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	12	4.78
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	12	4.78
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	12	4.78
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	12	4.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	12	4.78
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	12	4.78
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	12	4.78
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	12	4.78
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	12	4.78
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	12	4.78
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	12	4.78
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	12	4.78
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	4	4.74
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	4	4.74
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	4	4.74
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	4	4.74
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	4	4.74
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	4	4.74
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	4	4.74
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	4	4.74
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	4	4.74
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	4	4.74
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	4	4.74
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	4	4.74
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	10	4.74
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	10	4.74
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	10	4.74
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	10	4.74
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	10	4.74
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	10	4.74
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	10	4.74
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	10	4.74
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	10	4.74
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	10	4.74
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	10	4.74
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	10	4.74
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	2	4.72
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	2	4.72
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	2	4.72
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	2	4.72
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	2	4.72
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	2	4.72
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	2	4.72
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	2	4.72
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	2	4.72
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	2	4.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	2	4.72
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	2	4.72
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	1	4.7
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	1	4.7
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	1	4.7
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	1	4.7
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	1	4.7
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	1	4.7
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	1	4.7
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	1	4.7
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	1	4.7
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	1	4.7
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	1	4.7
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	1	4.7
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	3	4.7
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	3	4.7
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	3	4.7
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	3	4.7
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	3	4.7
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	3	4.7
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	3	4.7
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	3	4.7
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	3	4.7
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	3	4.7
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	3	4.7
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	3	4.7
(2,29)	1:A:5:G:H2'	1:B:5:G:H2'	7	4.63
(2,29)	1:A:5:G:H2'	1:C:5:G:H2'	7	4.63
(2,29)	1:A:5:G:H2'	1:D:5:G:H2'	7	4.63
(2,29)	1:B:5:G:H2'	1:A:5:G:H2'	7	4.63
(2,29)	1:B:5:G:H2'	1:C:5:G:H2'	7	4.63
(2,29)	1:B:5:G:H2'	1:D:5:G:H2'	7	4.63
(2,29)	1:C:5:G:H2'	1:A:5:G:H2'	7	4.63
(2,29)	1:C:5:G:H2'	1:B:5:G:H2'	7	4.63
(2,29)	1:C:5:G:H2'	1:D:5:G:H2'	7	4.63
(2,29)	1:D:5:G:H2'	1:A:5:G:H2'	7	4.63
(2,29)	1:D:5:G:H2'	1:B:5:G:H2'	7	4.63
(2,29)	1:D:5:G:H2'	1:C:5:G:H2'	7	4.63
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	9	4.51
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	9	4.51
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	9	4.51
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	9	4.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	9	4.51
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	9	4.51
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	9	4.51
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	9	4.51
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	9	4.51
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	9	4.51
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	9	4.51
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	9	4.51
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	8	4.48
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	8	4.48
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	8	4.48
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	8	4.48
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	8	4.48
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	8	4.48
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	8	4.48
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	8	4.48
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	8	4.48
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	8	4.48
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	8	4.48
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	8	4.48
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	1	4.47
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	1	4.47
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	1	4.47
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	1	4.47
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	1	4.47
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	1	4.47
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	1	4.47
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	1	4.47
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	1	4.47
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	1	4.47
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	1	4.47
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	1	4.47
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	13	4.47
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	13	4.47
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	13	4.47
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	13	4.47
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	13	4.47
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	13	4.47
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	13	4.47
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	13	4.47
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	13	4.47
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	13	4.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	13	4.47
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	13	4.47
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	3	4.45
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	3	4.45
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	3	4.45
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	3	4.45
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	3	4.45
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	3	4.45
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	3	4.45
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	3	4.45
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	3	4.45
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	3	4.45
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	3	4.45
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	3	4.45
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	2	4.44
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	2	4.44
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	2	4.44
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	2	4.44
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	2	4.44
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	2	4.44
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	2	4.44
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	2	4.44
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	2	4.44
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	2	4.44
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	2	4.44
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	2	4.44
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	6	4.44
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	6	4.44
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	6	4.44
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	6	4.44
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	6	4.44
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	6	4.44
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	6	4.44
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	6	4.44
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	6	4.44
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	6	4.44
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	6	4.44
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	6	4.44
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	15	4.43
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	15	4.43
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	15	4.43
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	15	4.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	15	4.43
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	15	4.43
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	15	4.43
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	15	4.43
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	15	4.43
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	15	4.43
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	15	4.43
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	15	4.43
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	14	4.4
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	14	4.4
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	14	4.4
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	14	4.4
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	14	4.4
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	14	4.4
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	14	4.4
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	14	4.4
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	14	4.4
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	14	4.4
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	14	4.4
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	14	4.4
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	12	4.39
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	12	4.39
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	12	4.39
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	12	4.39
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	12	4.39
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	12	4.39
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	12	4.39
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	12	4.39
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	12	4.39
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	12	4.39
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	12	4.39
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	12	4.39
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	10	4.38
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	10	4.38
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	10	4.38
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	10	4.38
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	10	4.38
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	10	4.38
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	10	4.38
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	10	4.38
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	10	4.38
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	10	4.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	10	4.38
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	10	4.38
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	7	4.37
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	7	4.37
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	7	4.37
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	7	4.37
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	7	4.37
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	7	4.37
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	7	4.37
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	7	4.37
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	7	4.37
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	7	4.37
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	7	4.37
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	7	4.37
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	4	4.35
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	4	4.35
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	4	4.35
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	4	4.35
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	4	4.35
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	4	4.35
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	4	4.35
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	4	4.35
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	4	4.35
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	4	4.35
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	4	4.35
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	4	4.35
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	5	4.35
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	5	4.35
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	5	4.35
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	5	4.35
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	5	4.35
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	5	4.35
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	5	4.35
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	5	4.35
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	5	4.35
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	5	4.35
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	5	4.35
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	5	4.35
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	4	4.33
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	4	4.33
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	4	4.33
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	4	4.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	4	4.33
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	4	4.33
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	4	4.33
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	4	4.33
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	4	4.33
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	4	4.33
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	4	4.33
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	4	4.33
(2,65)	1:A:7:U:H2'	1:B:7:U:H2'	11	4.25
(2,65)	1:A:7:U:H2'	1:C:7:U:H2'	11	4.25
(2,65)	1:A:7:U:H2'	1:D:7:U:H2'	11	4.25
(2,65)	1:B:7:U:H2'	1:A:7:U:H2'	11	4.25
(2,65)	1:B:7:U:H2'	1:C:7:U:H2'	11	4.25
(2,65)	1:B:7:U:H2'	1:D:7:U:H2'	11	4.25
(2,65)	1:C:7:U:H2'	1:A:7:U:H2'	11	4.25
(2,65)	1:C:7:U:H2'	1:B:7:U:H2'	11	4.25
(2,65)	1:C:7:U:H2'	1:D:7:U:H2'	11	4.25
(2,65)	1:D:7:U:H2'	1:A:7:U:H2'	11	4.25
(2,65)	1:D:7:U:H2'	1:B:7:U:H2'	11	4.25
(2,65)	1:D:7:U:H2'	1:C:7:U:H2'	11	4.25
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	14	4.19
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	14	4.19
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	14	4.19
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	14	4.19
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	14	4.19
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	14	4.19
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	14	4.19
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	14	4.19
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	14	4.19
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	14	4.19
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	14	4.19
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	14	4.19
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	15	4.16
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	15	4.16
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	15	4.16
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	15	4.16
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	15	4.16
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	15	4.16
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	15	4.16
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	15	4.16
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	15	4.16
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	15	4.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	15	4.16
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	15	4.16
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	13	4.09
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	13	4.09
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	13	4.09
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	13	4.09
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	13	4.09
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	13	4.09
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	13	4.09
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	13	4.09
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	13	4.09
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	13	4.09
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	13	4.09
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	13	4.09
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	7	4.07
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	7	4.07
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	7	4.07
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	7	4.07
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	7	4.07
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	7	4.07
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	7	4.07
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	7	4.07
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	7	4.07
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	7	4.07
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	7	4.07
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	7	4.07
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	8	4.06
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	8	4.06
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	8	4.06
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	8	4.06
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	8	4.06
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	8	4.06
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	8	4.06
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	8	4.06
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	8	4.06
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	8	4.06
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	8	4.06
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	8	4.06
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	5	4.05
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	5	4.05
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	5	4.05
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	5	4.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	5	4.05
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	5	4.05
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	5	4.05
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	5	4.05
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	5	4.05
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	5	4.05
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	5	4.05
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	5	4.05
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	6	4.05
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	6	4.05
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	6	4.05
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	6	4.05
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	6	4.05
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	6	4.05
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	6	4.05
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	6	4.05
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	6	4.05
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	6	4.05
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	6	4.05
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	6	4.05
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	10	4.02
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	10	4.02
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	10	4.02
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	10	4.02
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	10	4.02
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	10	4.02
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	10	4.02
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	10	4.02
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	10	4.02
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	10	4.02
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	10	4.02
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	10	4.02
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	2	3.98
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	2	3.98
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	2	3.98
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	2	3.98
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	2	3.98
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	2	3.98
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	2	3.98
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	2	3.98
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	2	3.98
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	2	3.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	2	3.98
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	2	3.98
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	3	3.97
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	3	3.97
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	3	3.97
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	3	3.97
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	3	3.97
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	3	3.97
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	3	3.97
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	3	3.97
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	3	3.97
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	3	3.97
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	3	3.97
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	3	3.97
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	12	3.95
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	12	3.95
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	12	3.95
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	12	3.95
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	12	3.95
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	12	3.95
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	12	3.95
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	12	3.95
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	12	3.95
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	12	3.95
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	12	3.95
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	12	3.95
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	9	3.92
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	9	3.92
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	9	3.92
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	9	3.92
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	9	3.92
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	9	3.92
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	9	3.92
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	9	3.92
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	9	3.92
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	9	3.92
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	9	3.92
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	9	3.92
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	11	3.9
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	11	3.9
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	11	3.9
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	11	3.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	11	3.9
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	11	3.9
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	11	3.9
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	11	3.9
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	11	3.9
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	11	3.9
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	11	3.9
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	11	3.9
(2,42)	1:A:6:G:H2'	1:B:6:G:H2'	1	3.85
(2,42)	1:A:6:G:H2'	1:C:6:G:H2'	1	3.85
(2,42)	1:A:6:G:H2'	1:D:6:G:H2'	1	3.85
(2,42)	1:B:6:G:H2'	1:A:6:G:H2'	1	3.85
(2,42)	1:B:6:G:H2'	1:C:6:G:H2'	1	3.85
(2,42)	1:B:6:G:H2'	1:D:6:G:H2'	1	3.85
(2,42)	1:C:6:G:H2'	1:A:6:G:H2'	1	3.85
(2,42)	1:C:6:G:H2'	1:B:6:G:H2'	1	3.85
(2,42)	1:C:6:G:H2'	1:D:6:G:H2'	1	3.85
(2,42)	1:D:6:G:H2'	1:A:6:G:H2'	1	3.85
(2,42)	1:D:6:G:H2'	1:B:6:G:H2'	1	3.85
(2,42)	1:D:6:G:H2'	1:C:6:G:H2'	1	3.85
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	5	0.62
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	5	0.62
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	5	0.62
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	5	0.62
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	5	0.62
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	5	0.62
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	5	0.62
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	5	0.62
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	5	0.62
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	5	0.62
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	5	0.62
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	5	0.62
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	5	0.62
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	5	0.62
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	5	0.62
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	5	0.62
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	11	0.62
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	11	0.62
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	11	0.62
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	11	0.62
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	11	0.62
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	11	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	11	0.62
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	11	0.62
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	11	0.62
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	11	0.62
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	11	0.62
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	11	0.62
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	11	0.62
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	11	0.62
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	11	0.62
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	11	0.62
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	3	0.61
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	3	0.61
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	3	0.61
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	3	0.61
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	3	0.61
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	3	0.61
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	3	0.61
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	3	0.61
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	3	0.61
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	3	0.61
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	3	0.61
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	3	0.61
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	3	0.61
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	3	0.61
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	3	0.61
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	3	0.61
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	1	0.6
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	1	0.6
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	1	0.6
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	1	0.6
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	1	0.6
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	1	0.6
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	1	0.6
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	1	0.6
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	1	0.6
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	1	0.6
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	1	0.6
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	1	0.6
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	1	0.6
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	1	0.6
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	1	0.6
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	1	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	2	0.6
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	2	0.6
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	2	0.6
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	2	0.6
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	2	0.6
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	2	0.6
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	2	0.6
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	2	0.6
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	2	0.6
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	2	0.6
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	2	0.6
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	2	0.6
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	2	0.6
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	2	0.6
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	2	0.6
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	2	0.6
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	6	0.6
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	6	0.6
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	6	0.6
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	6	0.6
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	6	0.6
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	6	0.6
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	6	0.6
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	6	0.6
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	6	0.6
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	6	0.6
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	6	0.6
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	6	0.6
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	6	0.6
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	6	0.6
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	6	0.6
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	6	0.6
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	7	0.6
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	7	0.6
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	7	0.6
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	7	0.6
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	7	0.6
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	7	0.6
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	7	0.6
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	7	0.6
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	7	0.6
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	7	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	7	0.6
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	7	0.6
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	7	0.6
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	7	0.6
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	7	0.6
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	7	0.6
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	8	0.6
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	8	0.6
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	8	0.6
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	8	0.6
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	8	0.6
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	8	0.6
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	8	0.6
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	8	0.6
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	8	0.6
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	8	0.6
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	8	0.6
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	8	0.6
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	8	0.6
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	8	0.6
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	8	0.6
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	8	0.6
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	9	0.6
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	9	0.6
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	9	0.6
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	9	0.6
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	9	0.6
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	9	0.6
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	9	0.6
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	9	0.6
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	9	0.6
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	9	0.6
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	9	0.6
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	9	0.6
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	9	0.6
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	9	0.6
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	9	0.6
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	9	0.6
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	12	0.6
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	12	0.6
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	12	0.6
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	12	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	12	0.6
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	12	0.6
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	12	0.6
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	12	0.6
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	12	0.6
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	12	0.6
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	12	0.6
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	12	0.6
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	12	0.6
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	12	0.6
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	12	0.6
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	12	0.6
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	13	0.6
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	13	0.6
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	13	0.6
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	13	0.6
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	13	0.6
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	13	0.6
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	13	0.6
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	13	0.6
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	13	0.6
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	13	0.6
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	13	0.6
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	13	0.6
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	13	0.6
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	13	0.6
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	13	0.6
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	13	0.6
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	14	0.6
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	14	0.6
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	14	0.6
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	14	0.6
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	14	0.6
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	14	0.6
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	14	0.6
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	14	0.6
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	14	0.6
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	14	0.6
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	14	0.6
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	14	0.6
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	14	0.6
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	14	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	14	0.6
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	14	0.6
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	10	0.59
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	10	0.59
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	10	0.59
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	10	0.59
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	10	0.59
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	10	0.59
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	10	0.59
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	10	0.59
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	10	0.59
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	10	0.59
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	10	0.59
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	10	0.59
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	10	0.59
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	10	0.59
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	10	0.59
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	10	0.59
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	15	0.59
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	15	0.59
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	15	0.59
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	15	0.59
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	15	0.59
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	15	0.59
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	15	0.59
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	15	0.59
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	15	0.59
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	15	0.59
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	15	0.59
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	15	0.59
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	15	0.59
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	15	0.59
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	15	0.59
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	15	0.59
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	1	0.59
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	1	0.59
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	1	0.59
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	1	0.59
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	1	0.59
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	1	0.59
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	1	0.59
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	1	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	1	0.59
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	1	0.59
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	1	0.59
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	1	0.59
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	1	0.59
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	1	0.59
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	1	0.59
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	1	0.59
(2,44)	1:A:6:G:H3'	1:A:6:G:H2'	4	0.58
(2,44)	1:A:6:G:H3'	1:B:6:G:H2'	4	0.58
(2,44)	1:A:6:G:H3'	1:C:6:G:H2'	4	0.58
(2,44)	1:A:6:G:H3'	1:D:6:G:H2'	4	0.58
(2,44)	1:B:6:G:H3'	1:A:6:G:H2'	4	0.58
(2,44)	1:B:6:G:H3'	1:B:6:G:H2'	4	0.58
(2,44)	1:B:6:G:H3'	1:C:6:G:H2'	4	0.58
(2,44)	1:B:6:G:H3'	1:D:6:G:H2'	4	0.58
(2,44)	1:C:6:G:H3'	1:A:6:G:H2'	4	0.58
(2,44)	1:C:6:G:H3'	1:B:6:G:H2'	4	0.58
(2,44)	1:C:6:G:H3'	1:C:6:G:H2'	4	0.58
(2,44)	1:C:6:G:H3'	1:D:6:G:H2'	4	0.58
(2,44)	1:D:6:G:H3'	1:A:6:G:H2'	4	0.58
(2,44)	1:D:6:G:H3'	1:B:6:G:H2'	4	0.58
(2,44)	1:D:6:G:H3'	1:C:6:G:H2'	4	0.58
(2,44)	1:D:6:G:H3'	1:D:6:G:H2'	4	0.58
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	14	0.55
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	14	0.55
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	14	0.55
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	14	0.55
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	14	0.55
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	14	0.55
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	14	0.55
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	14	0.55
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	14	0.55
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	14	0.55
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	14	0.55
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	14	0.55
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	14	0.55
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	14	0.55
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	14	0.55
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	14	0.55
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	6	0.54
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	6	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	6	0.54
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	6	0.54
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	6	0.54
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	6	0.54
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	6	0.54
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	6	0.54
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	6	0.54
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	6	0.54
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	6	0.54
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	6	0.54
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	6	0.54
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	6	0.54
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	6	0.54
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	6	0.54
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	4	0.53
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	4	0.53
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	4	0.53
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	4	0.53
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	4	0.53
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	4	0.53
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	4	0.53
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	4	0.53
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	4	0.53
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	4	0.53
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	4	0.53
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	4	0.53
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	4	0.53
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	4	0.53
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	4	0.53
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	4	0.53
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	9	0.52
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	9	0.52
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	9	0.52
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	9	0.52
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	9	0.52
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	9	0.52
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	9	0.52
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	9	0.52
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	9	0.52
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	9	0.52
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	9	0.52
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	9	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	9	0.52
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	9	0.52
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	9	0.52
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	9	0.52
(2,13)	1:A:2:G:H22	1:A:1:U:H5	8	0.52
(2,13)	1:A:2:G:H22	1:B:1:U:H5	8	0.52
(2,13)	1:A:2:G:H22	1:C:1:U:H5	8	0.52
(2,13)	1:A:2:G:H22	1:D:1:U:H5	8	0.52
(2,13)	1:B:2:G:H22	1:A:1:U:H5	8	0.52
(2,13)	1:B:2:G:H22	1:B:1:U:H5	8	0.52
(2,13)	1:B:2:G:H22	1:C:1:U:H5	8	0.52
(2,13)	1:B:2:G:H22	1:D:1:U:H5	8	0.52
(2,13)	1:C:2:G:H22	1:A:1:U:H5	8	0.52
(2,13)	1:C:2:G:H22	1:B:1:U:H5	8	0.52
(2,13)	1:C:2:G:H22	1:C:1:U:H5	8	0.52
(2,13)	1:C:2:G:H22	1:D:1:U:H5	8	0.52
(2,13)	1:D:2:G:H22	1:A:1:U:H5	8	0.52
(2,13)	1:D:2:G:H22	1:B:1:U:H5	8	0.52
(2,13)	1:D:2:G:H22	1:C:1:U:H5	8	0.52
(2,13)	1:D:2:G:H22	1:D:1:U:H5	8	0.52
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	10	0.51
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	10	0.51
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	10	0.51
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	10	0.51
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	10	0.51
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	10	0.51
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	10	0.51
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	10	0.51
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	10	0.51
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	10	0.51
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	10	0.51
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	10	0.51
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	10	0.51
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	10	0.51
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	10	0.51
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	10	0.51
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	7	0.5
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	7	0.5
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	7	0.5
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	7	0.5
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	7	0.5
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	7	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	7	0.5
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	7	0.5
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	7	0.5
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	7	0.5
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	7	0.5
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	7	0.5
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	7	0.5
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	7	0.5
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	7	0.5
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	7	0.5
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	12	0.5
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	12	0.5
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	12	0.5
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	12	0.5
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	12	0.5
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	12	0.5
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	12	0.5
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	12	0.5
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	12	0.5
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	12	0.5
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	12	0.5
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	12	0.5
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	12	0.5
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	12	0.5
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	12	0.5
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	12	0.5
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	13	0.5
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	13	0.5
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	13	0.5
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	13	0.5
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	13	0.5
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	13	0.5
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	13	0.5
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	13	0.5
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	13	0.5
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	13	0.5
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	13	0.5
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	13	0.5
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	13	0.5
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	13	0.5
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	13	0.5
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	13	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	2	0.49
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	2	0.49
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	2	0.49
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	2	0.49
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	2	0.49
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	2	0.49
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	2	0.49
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	2	0.49
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	2	0.49
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	2	0.49
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	2	0.49
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	2	0.49
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	2	0.49
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	2	0.49
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	2	0.49
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	2	0.49
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	15	0.49
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	15	0.49
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	15	0.49
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	15	0.49
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	15	0.49
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	15	0.49
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	15	0.49
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	15	0.49
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	15	0.49
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	15	0.49
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	15	0.49
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	15	0.49
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	15	0.49
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	15	0.49
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	15	0.49
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	15	0.49
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	3	0.45
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	3	0.45
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	3	0.45
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	3	0.45
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	3	0.45
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	3	0.45
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	3	0.45
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	3	0.45
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	3	0.45
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	3	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	3	0.45
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	3	0.45
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	3	0.45
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	3	0.45
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	3	0.45
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	3	0.45
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	5	0.45
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	5	0.45
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	5	0.45
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	5	0.45
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	5	0.45
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	5	0.45
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	5	0.45
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	5	0.45
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	5	0.45
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	5	0.45
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	5	0.45
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	5	0.45
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	5	0.45
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	5	0.45
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	5	0.45
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	5	0.45
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	11	0.45
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	11	0.45
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	11	0.45
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	11	0.45
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	11	0.45
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	11	0.45
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	11	0.45
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	11	0.45
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	11	0.45
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	11	0.45
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	11	0.45
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	11	0.45
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	11	0.45
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	11	0.45
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	11	0.45
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	11	0.45
(2,13)	1:A:2:G:H22	1:A:1:U:H5	4	0.4
(2,13)	1:A:2:G:H22	1:B:1:U:H5	4	0.4
(2,13)	1:A:2:G:H22	1:C:1:U:H5	4	0.4
(2,13)	1:A:2:G:H22	1:D:1:U:H5	4	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,13)	1:B:2:G:H22	1:A:1:U:H5	4	0.4
(2,13)	1:B:2:G:H22	1:B:1:U:H5	4	0.4
(2,13)	1:B:2:G:H22	1:C:1:U:H5	4	0.4
(2,13)	1:B:2:G:H22	1:D:1:U:H5	4	0.4
(2,13)	1:C:2:G:H22	1:A:1:U:H5	4	0.4
(2,13)	1:C:2:G:H22	1:B:1:U:H5	4	0.4
(2,13)	1:C:2:G:H22	1:C:1:U:H5	4	0.4
(2,13)	1:C:2:G:H22	1:D:1:U:H5	4	0.4
(2,13)	1:D:2:G:H22	1:A:1:U:H5	4	0.4
(2,13)	1:D:2:G:H22	1:B:1:U:H5	4	0.4
(2,13)	1:D:2:G:H22	1:C:1:U:H5	4	0.4
(2,13)	1:D:2:G:H22	1:D:1:U:H5	4	0.4
(1,63)	1:A:1:U:H3'	1:A:1:U:H5'	8	0.39
(1,63)	1:A:1:U:H3'	1:B:1:U:H5'	8	0.39
(1,63)	1:A:1:U:H3'	1:C:1:U:H5'	8	0.39
(1,63)	1:A:1:U:H3'	1:D:1:U:H5'	8	0.39
(1,63)	1:B:1:U:H3'	1:A:1:U:H5'	8	0.39
(1,63)	1:B:1:U:H3'	1:B:1:U:H5'	8	0.39
(1,63)	1:B:1:U:H3'	1:C:1:U:H5'	8	0.39
(1,63)	1:B:1:U:H3'	1:D:1:U:H5'	8	0.39
(1,63)	1:C:1:U:H3'	1:A:1:U:H5'	8	0.39
(1,63)	1:C:1:U:H3'	1:B:1:U:H5'	8	0.39
(1,63)	1:C:1:U:H3'	1:C:1:U:H5'	8	0.39
(1,63)	1:C:1:U:H3'	1:D:1:U:H5'	8	0.39
(1,63)	1:D:1:U:H3'	1:A:1:U:H5'	8	0.39
(1,63)	1:D:1:U:H3'	1:B:1:U:H5'	8	0.39
(1,63)	1:D:1:U:H3'	1:C:1:U:H5'	8	0.39
(1,63)	1:D:1:U:H3'	1:D:1:U:H5'	8	0.39
(1,63)	1:A:1:U:H3'	1:A:1:U:H5''	8	0.39
(1,63)	1:A:1:U:H3'	1:B:1:U:H5''	8	0.39
(1,63)	1:A:1:U:H3'	1:C:1:U:H5''	8	0.39
(1,63)	1:A:1:U:H3'	1:D:1:U:H5''	8	0.39
(1,63)	1:B:1:U:H3'	1:A:1:U:H5''	8	0.39
(1,63)	1:B:1:U:H3'	1:B:1:U:H5''	8	0.39
(1,63)	1:B:1:U:H3'	1:C:1:U:H5''	8	0.39
(1,63)	1:B:1:U:H3'	1:D:1:U:H5''	8	0.39
(1,63)	1:C:1:U:H3'	1:A:1:U:H5''	8	0.39
(1,63)	1:C:1:U:H3'	1:B:1:U:H5''	8	0.39
(1,63)	1:C:1:U:H3'	1:C:1:U:H5''	8	0.39
(1,63)	1:C:1:U:H3'	1:D:1:U:H5''	8	0.39
(1,63)	1:D:1:U:H3'	1:A:1:U:H5''	8	0.39
(1,63)	1:D:1:U:H3'	1:B:1:U:H5''	8	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:D:1:U:H3'	1:C:1:U:H5''	8	0.39
(1,63)	1:D:1:U:H3'	1:D:1:U:H5''	8	0.39
(2,14)	1:A:2:G:H22	1:A:3:G:H1'	8	0.38
(2,14)	1:A:2:G:H22	1:B:3:G:H1'	8	0.38
(2,14)	1:A:2:G:H22	1:C:3:G:H1'	8	0.38
(2,14)	1:A:2:G:H22	1:D:3:G:H1'	8	0.38
(2,14)	1:B:2:G:H22	1:A:3:G:H1'	8	0.38
(2,14)	1:B:2:G:H22	1:B:3:G:H1'	8	0.38
(2,14)	1:B:2:G:H22	1:C:3:G:H1'	8	0.38
(2,14)	1:B:2:G:H22	1:D:3:G:H1'	8	0.38
(2,14)	1:C:2:G:H22	1:A:3:G:H1'	8	0.38
(2,14)	1:C:2:G:H22	1:B:3:G:H1'	8	0.38
(2,14)	1:C:2:G:H22	1:C:3:G:H1'	8	0.38
(2,14)	1:C:2:G:H22	1:D:3:G:H1'	8	0.38
(2,14)	1:D:2:G:H22	1:A:3:G:H1'	8	0.38
(2,14)	1:D:2:G:H22	1:B:3:G:H1'	8	0.38
(2,14)	1:D:2:G:H22	1:C:3:G:H1'	8	0.38
(2,14)	1:D:2:G:H22	1:D:3:G:H1'	8	0.38
(2,13)	1:A:2:G:H22	1:A:1:U:H5	5	0.36
(2,13)	1:A:2:G:H22	1:B:1:U:H5	5	0.36
(2,13)	1:A:2:G:H22	1:C:1:U:H5	5	0.36
(2,13)	1:A:2:G:H22	1:D:1:U:H5	5	0.36
(2,13)	1:B:2:G:H22	1:A:1:U:H5	5	0.36
(2,13)	1:B:2:G:H22	1:B:1:U:H5	5	0.36
(2,13)	1:B:2:G:H22	1:C:1:U:H5	5	0.36
(2,13)	1:B:2:G:H22	1:D:1:U:H5	5	0.36
(2,13)	1:C:2:G:H22	1:A:1:U:H5	5	0.36
(2,13)	1:C:2:G:H22	1:B:1:U:H5	5	0.36
(2,13)	1:C:2:G:H22	1:C:1:U:H5	5	0.36
(2,13)	1:C:2:G:H22	1:D:1:U:H5	5	0.36
(2,13)	1:D:2:G:H22	1:A:1:U:H5	5	0.36
(2,13)	1:D:2:G:H22	1:B:1:U:H5	5	0.36
(2,13)	1:D:2:G:H22	1:C:1:U:H5	5	0.36
(2,13)	1:D:2:G:H22	1:D:1:U:H5	5	0.36
(1,63)	1:A:1:U:H3'	1:A:1:U:H5'	10	0.35
(1,63)	1:A:1:U:H3'	1:B:1:U:H5'	10	0.35
(1,63)	1:A:1:U:H3'	1:C:1:U:H5'	10	0.35
(1,63)	1:A:1:U:H3'	1:D:1:U:H5'	10	0.35
(1,63)	1:B:1:U:H3'	1:A:1:U:H5'	10	0.35
(1,63)	1:B:1:U:H3'	1:B:1:U:H5'	10	0.35
(1,63)	1:B:1:U:H3'	1:C:1:U:H5'	10	0.35
(1,63)	1:B:1:U:H3'	1:D:1:U:H5'	10	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:C:1:U:H3'	1:A:1:U:H5'	10	0.35
(1,63)	1:C:1:U:H3'	1:B:1:U:H5'	10	0.35
(1,63)	1:C:1:U:H3'	1:C:1:U:H5'	10	0.35
(1,63)	1:C:1:U:H3'	1:D:1:U:H5'	10	0.35
(1,63)	1:D:1:U:H3'	1:A:1:U:H5'	10	0.35
(1,63)	1:D:1:U:H3'	1:B:1:U:H5'	10	0.35
(1,63)	1:D:1:U:H3'	1:C:1:U:H5'	10	0.35
(1,63)	1:D:1:U:H3'	1:D:1:U:H5'	10	0.35
(1,63)	1:A:1:U:H3'	1:A:1:U:H5''	10	0.35
(1,63)	1:A:1:U:H3'	1:B:1:U:H5''	10	0.35
(1,63)	1:A:1:U:H3'	1:C:1:U:H5''	10	0.35
(1,63)	1:A:1:U:H3'	1:D:1:U:H5''	10	0.35
(1,63)	1:B:1:U:H3'	1:A:1:U:H5''	10	0.35
(1,63)	1:B:1:U:H3'	1:B:1:U:H5''	10	0.35
(1,63)	1:B:1:U:H3'	1:C:1:U:H5''	10	0.35
(1,63)	1:B:1:U:H3'	1:D:1:U:H5''	10	0.35
(1,63)	1:C:1:U:H3'	1:A:1:U:H5''	10	0.35
(1,63)	1:C:1:U:H3'	1:B:1:U:H5''	10	0.35
(1,63)	1:C:1:U:H3'	1:C:1:U:H5''	10	0.35
(1,63)	1:C:1:U:H3'	1:D:1:U:H5''	10	0.35
(1,63)	1:D:1:U:H3'	1:A:1:U:H5''	10	0.35
(1,63)	1:D:1:U:H3'	1:B:1:U:H5''	10	0.35
(1,63)	1:D:1:U:H3'	1:C:1:U:H5''	10	0.35
(1,63)	1:D:1:U:H3'	1:D:1:U:H5''	10	0.35
(2,27)	1:A:4:U:H3	1:A:5:G:H1	11	0.34
(2,27)	1:A:4:U:H3	1:B:5:G:H1	11	0.34
(2,27)	1:A:4:U:H3	1:C:5:G:H1	11	0.34
(2,27)	1:A:4:U:H3	1:D:5:G:H1	11	0.34
(2,27)	1:B:4:U:H3	1:A:5:G:H1	11	0.34
(2,27)	1:B:4:U:H3	1:B:5:G:H1	11	0.34
(2,27)	1:B:4:U:H3	1:C:5:G:H1	11	0.34
(2,27)	1:B:4:U:H3	1:D:5:G:H1	11	0.34
(2,27)	1:C:4:U:H3	1:A:5:G:H1	11	0.34
(2,27)	1:C:4:U:H3	1:B:5:G:H1	11	0.34
(2,27)	1:C:4:U:H3	1:C:5:G:H1	11	0.34
(2,27)	1:C:4:U:H3	1:D:5:G:H1	11	0.34
(2,27)	1:D:4:U:H3	1:A:5:G:H1	11	0.34
(2,27)	1:D:4:U:H3	1:B:5:G:H1	11	0.34
(2,27)	1:D:4:U:H3	1:C:5:G:H1	11	0.34
(2,27)	1:D:4:U:H3	1:D:5:G:H1	11	0.34
(2,13)	1:A:2:G:H22	1:A:1:U:H5	12	0.34
(2,13)	1:A:2:G:H22	1:B:1:U:H5	12	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,13)	1:A:2:G:H22	1:C:1:U:H5	12	0.34
(2,13)	1:A:2:G:H22	1:D:1:U:H5	12	0.34
(2,13)	1:B:2:G:H22	1:A:1:U:H5	12	0.34
(2,13)	1:B:2:G:H22	1:B:1:U:H5	12	0.34
(2,13)	1:B:2:G:H22	1:C:1:U:H5	12	0.34
(2,13)	1:B:2:G:H22	1:D:1:U:H5	12	0.34
(2,13)	1:C:2:G:H22	1:A:1:U:H5	12	0.34
(2,13)	1:C:2:G:H22	1:B:1:U:H5	12	0.34
(2,13)	1:C:2:G:H22	1:C:1:U:H5	12	0.34
(2,13)	1:C:2:G:H22	1:D:1:U:H5	12	0.34
(2,13)	1:D:2:G:H22	1:A:1:U:H5	12	0.34
(2,13)	1:D:2:G:H22	1:B:1:U:H5	12	0.34
(2,13)	1:D:2:G:H22	1:C:1:U:H5	12	0.34
(2,13)	1:D:2:G:H22	1:D:1:U:H5	12	0.34
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	6	0.33
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	6	0.33
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	6	0.33
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	6	0.33
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	6	0.33
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	6	0.33
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	6	0.33
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	6	0.33
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	6	0.33
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	6	0.33
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	6	0.33
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	6	0.33
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	6	0.33
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	6	0.33
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	6	0.33
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	6	0.33
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	6	0.33
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	6	0.33
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	6	0.33
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	6	0.33
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	6	0.33
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	6	0.33
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	6	0.33
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	6	0.33
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	6	0.33
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	6	0.33
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	6	0.33
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	6	0.33
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	6	0.33
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	6	0.33
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	6	0.33
(2,18)	1:A:3:G:H1	1:A:4:U:H3	2	0.33
(2,18)	1:A:3:G:H1	1:B:4:U:H3	2	0.33
(2,18)	1:A:3:G:H1	1:C:4:U:H3	2	0.33
(2,18)	1:A:3:G:H1	1:D:4:U:H3	2	0.33
(2,18)	1:B:3:G:H1	1:A:4:U:H3	2	0.33
(2,18)	1:B:3:G:H1	1:B:4:U:H3	2	0.33
(2,18)	1:B:3:G:H1	1:C:4:U:H3	2	0.33
(2,18)	1:B:3:G:H1	1:D:4:U:H3	2	0.33
(2,18)	1:C:3:G:H1	1:A:4:U:H3	2	0.33
(2,18)	1:C:3:G:H1	1:B:4:U:H3	2	0.33
(2,18)	1:C:3:G:H1	1:C:4:U:H3	2	0.33
(2,18)	1:C:3:G:H1	1:D:4:U:H3	2	0.33
(2,18)	1:D:3:G:H1	1:A:4:U:H3	2	0.33
(2,18)	1:D:3:G:H1	1:B:4:U:H3	2	0.33
(2,18)	1:D:3:G:H1	1:C:4:U:H3	2	0.33
(2,18)	1:D:3:G:H1	1:D:4:U:H3	2	0.33
(2,13)	1:A:2:G:H22	1:A:1:U:H5	15	0.32
(2,13)	1:A:2:G:H22	1:B:1:U:H5	15	0.32
(2,13)	1:A:2:G:H22	1:C:1:U:H5	15	0.32
(2,13)	1:A:2:G:H22	1:D:1:U:H5	15	0.32
(2,13)	1:B:2:G:H22	1:A:1:U:H5	15	0.32
(2,13)	1:B:2:G:H22	1:B:1:U:H5	15	0.32
(2,13)	1:B:2:G:H22	1:C:1:U:H5	15	0.32
(2,13)	1:B:2:G:H22	1:D:1:U:H5	15	0.32
(2,13)	1:C:2:G:H22	1:A:1:U:H5	15	0.32
(2,13)	1:C:2:G:H22	1:B:1:U:H5	15	0.32
(2,13)	1:C:2:G:H22	1:C:1:U:H5	15	0.32
(2,13)	1:C:2:G:H22	1:D:1:U:H5	15	0.32
(2,13)	1:D:2:G:H22	1:A:1:U:H5	15	0.32
(2,13)	1:D:2:G:H22	1:B:1:U:H5	15	0.32
(2,13)	1:D:2:G:H22	1:C:1:U:H5	15	0.32
(2,13)	1:D:2:G:H22	1:D:1:U:H5	15	0.32
(2,13)	1:A:2:G:H22	1:A:1:U:H5	10	0.31
(2,13)	1:A:2:G:H22	1:B:1:U:H5	10	0.31
(2,13)	1:A:2:G:H22	1:C:1:U:H5	10	0.31
(2,13)	1:A:2:G:H22	1:D:1:U:H5	10	0.31
(2,13)	1:B:2:G:H22	1:A:1:U:H5	10	0.31
(2,13)	1:B:2:G:H22	1:B:1:U:H5	10	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,13)	1:B:2:G:H22	1:C:1:U:H5	10	0.31
(2,13)	1:B:2:G:H22	1:D:1:U:H5	10	0.31
(2,13)	1:C:2:G:H22	1:A:1:U:H5	10	0.31
(2,13)	1:C:2:G:H22	1:B:1:U:H5	10	0.31
(2,13)	1:C:2:G:H22	1:C:1:U:H5	10	0.31
(2,13)	1:C:2:G:H22	1:D:1:U:H5	10	0.31
(2,13)	1:D:2:G:H22	1:A:1:U:H5	10	0.31
(2,13)	1:D:2:G:H22	1:B:1:U:H5	10	0.31
(2,13)	1:D:2:G:H22	1:C:1:U:H5	10	0.31
(2,13)	1:D:2:G:H22	1:D:1:U:H5	10	0.31
(1,63)	1:A:1:U:H3'	1:A:1:U:H5'	5	0.31
(1,63)	1:A:1:U:H3'	1:B:1:U:H5'	5	0.31
(1,63)	1:A:1:U:H3'	1:C:1:U:H5'	5	0.31
(1,63)	1:A:1:U:H3'	1:D:1:U:H5'	5	0.31
(1,63)	1:B:1:U:H3'	1:A:1:U:H5'	5	0.31
(1,63)	1:B:1:U:H3'	1:B:1:U:H5'	5	0.31
(1,63)	1:B:1:U:H3'	1:C:1:U:H5'	5	0.31
(1,63)	1:B:1:U:H3'	1:D:1:U:H5'	5	0.31
(1,63)	1:C:1:U:H3'	1:A:1:U:H5'	5	0.31
(1,63)	1:C:1:U:H3'	1:B:1:U:H5'	5	0.31
(1,63)	1:C:1:U:H3'	1:C:1:U:H5'	5	0.31
(1,63)	1:C:1:U:H3'	1:D:1:U:H5'	5	0.31
(1,63)	1:D:1:U:H3'	1:A:1:U:H5'	5	0.31
(1,63)	1:D:1:U:H3'	1:B:1:U:H5'	5	0.31
(1,63)	1:D:1:U:H3'	1:C:1:U:H5'	5	0.31
(1,63)	1:D:1:U:H3'	1:D:1:U:H5'	5	0.31
(1,63)	1:A:1:U:H3''	1:A:1:U:H5''	5	0.31
(1,63)	1:A:1:U:H3''	1:B:1:U:H5''	5	0.31
(1,63)	1:A:1:U:H3''	1:C:1:U:H5''	5	0.31
(1,63)	1:A:1:U:H3''	1:D:1:U:H5''	5	0.31
(1,63)	1:B:1:U:H3''	1:A:1:U:H5''	5	0.31
(1,63)	1:B:1:U:H3''	1:B:1:U:H5''	5	0.31
(1,63)	1:B:1:U:H3''	1:C:1:U:H5''	5	0.31
(1,63)	1:B:1:U:H3''	1:D:1:U:H5''	5	0.31
(1,63)	1:C:1:U:H3''	1:A:1:U:H5''	5	0.31
(1,63)	1:C:1:U:H3''	1:B:1:U:H5''	5	0.31
(1,63)	1:C:1:U:H3''	1:C:1:U:H5''	5	0.31
(1,63)	1:C:1:U:H3''	1:D:1:U:H5''	5	0.31
(1,63)	1:D:1:U:H3''	1:A:1:U:H5''	5	0.31
(1,63)	1:D:1:U:H3''	1:B:1:U:H5''	5	0.31
(1,63)	1:D:1:U:H3''	1:C:1:U:H5''	5	0.31
(1,63)	1:D:1:U:H3''	1:D:1:U:H5''	5	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	9	0.3
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	9	0.3
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	9	0.3
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	9	0.3
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	9	0.3
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	9	0.3
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	9	0.3
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	9	0.3
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	9	0.3
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	9	0.3
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	9	0.3
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	9	0.3
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	9	0.3
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	9	0.3
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	9	0.3
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	9	0.3
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	9	0.3
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	9	0.3
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	9	0.3
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	9	0.3
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	9	0.3
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	9	0.3
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	9	0.3
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	9	0.3
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	9	0.3
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	9	0.3
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	9	0.3
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	9	0.3
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	9	0.3
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	9	0.3
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	9	0.3
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	9	0.3
(2,18)	1:A:3:G:H1	1:A:4:U:H3	6	0.3
(2,18)	1:A:3:G:H1	1:B:4:U:H3	6	0.3
(2,18)	1:A:3:G:H1	1:C:4:U:H3	6	0.3
(2,18)	1:A:3:G:H1	1:D:4:U:H3	6	0.3
(2,18)	1:B:3:G:H1	1:A:4:U:H3	6	0.3
(2,18)	1:B:3:G:H1	1:B:4:U:H3	6	0.3
(2,18)	1:B:3:G:H1	1:C:4:U:H3	6	0.3
(2,18)	1:B:3:G:H1	1:D:4:U:H3	6	0.3
(2,18)	1:C:3:G:H1	1:A:4:U:H3	6	0.3
(2,18)	1:C:3:G:H1	1:B:4:U:H3	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,18)	1:C:3:G:H1	1:C:4:U:H3	6	0.3
(2,18)	1:C:3:G:H1	1:D:4:U:H3	6	0.3
(2,18)	1:D:3:G:H1	1:A:4:U:H3	6	0.3
(2,18)	1:D:3:G:H1	1:B:4:U:H3	6	0.3
(2,18)	1:D:3:G:H1	1:C:4:U:H3	6	0.3
(2,18)	1:D:3:G:H1	1:D:4:U:H3	6	0.3
(2,18)	1:A:3:G:H1	1:A:4:U:H3	7	0.3
(2,18)	1:A:3:G:H1	1:B:4:U:H3	7	0.3
(2,18)	1:A:3:G:H1	1:C:4:U:H3	7	0.3
(2,18)	1:A:3:G:H1	1:D:4:U:H3	7	0.3
(2,18)	1:B:3:G:H1	1:A:4:U:H3	7	0.3
(2,18)	1:B:3:G:H1	1:B:4:U:H3	7	0.3
(2,18)	1:B:3:G:H1	1:C:4:U:H3	7	0.3
(2,18)	1:B:3:G:H1	1:D:4:U:H3	7	0.3
(2,18)	1:C:3:G:H1	1:A:4:U:H3	7	0.3
(2,18)	1:C:3:G:H1	1:B:4:U:H3	7	0.3
(2,18)	1:C:3:G:H1	1:C:4:U:H3	7	0.3
(2,18)	1:C:3:G:H1	1:D:4:U:H3	7	0.3
(2,18)	1:D:3:G:H1	1:A:4:U:H3	7	0.3
(2,18)	1:D:3:G:H1	1:B:4:U:H3	7	0.3
(2,18)	1:D:3:G:H1	1:C:4:U:H3	7	0.3
(2,18)	1:D:3:G:H1	1:D:4:U:H3	7	0.3
(2,18)	1:A:3:G:H1	1:A:4:U:H3	8	0.3
(2,18)	1:A:3:G:H1	1:B:4:U:H3	8	0.3
(2,18)	1:A:3:G:H1	1:C:4:U:H3	8	0.3
(2,18)	1:A:3:G:H1	1:D:4:U:H3	8	0.3
(2,18)	1:B:3:G:H1	1:A:4:U:H3	8	0.3
(2,18)	1:B:3:G:H1	1:B:4:U:H3	8	0.3
(2,18)	1:B:3:G:H1	1:C:4:U:H3	8	0.3
(2,18)	1:B:3:G:H1	1:D:4:U:H3	8	0.3
(2,18)	1:C:3:G:H1	1:A:4:U:H3	8	0.3
(2,18)	1:C:3:G:H1	1:B:4:U:H3	8	0.3
(2,18)	1:C:3:G:H1	1:C:4:U:H3	8	0.3
(2,18)	1:C:3:G:H1	1:D:4:U:H3	8	0.3
(2,18)	1:D:3:G:H1	1:A:4:U:H3	8	0.3
(2,18)	1:D:3:G:H1	1:B:4:U:H3	8	0.3
(2,18)	1:D:3:G:H1	1:C:4:U:H3	8	0.3
(2,18)	1:D:3:G:H1	1:D:4:U:H3	8	0.3
(2,18)	1:A:3:G:H1	1:A:4:U:H3	15	0.3
(2,18)	1:A:3:G:H1	1:B:4:U:H3	15	0.3
(2,18)	1:A:3:G:H1	1:C:4:U:H3	15	0.3
(2,18)	1:A:3:G:H1	1:D:4:U:H3	15	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,18)	1:B:3:G:H1	1:A:4:U:H3	15	0.3
(2,18)	1:B:3:G:H1	1:B:4:U:H3	15	0.3
(2,18)	1:B:3:G:H1	1:C:4:U:H3	15	0.3
(2,18)	1:B:3:G:H1	1:D:4:U:H3	15	0.3
(2,18)	1:C:3:G:H1	1:A:4:U:H3	15	0.3
(2,18)	1:C:3:G:H1	1:B:4:U:H3	15	0.3
(2,18)	1:C:3:G:H1	1:C:4:U:H3	15	0.3
(2,18)	1:C:3:G:H1	1:D:4:U:H3	15	0.3
(2,18)	1:D:3:G:H1	1:A:4:U:H3	15	0.3
(2,18)	1:D:3:G:H1	1:B:4:U:H3	15	0.3
(2,18)	1:D:3:G:H1	1:C:4:U:H3	15	0.3
(2,18)	1:D:3:G:H1	1:D:4:U:H3	15	0.3
(2,27)	1:A:4:U:H3	1:A:5:G:H1	9	0.29
(2,27)	1:A:4:U:H3	1:B:5:G:H1	9	0.29
(2,27)	1:A:4:U:H3	1:C:5:G:H1	9	0.29
(2,27)	1:A:4:U:H3	1:D:5:G:H1	9	0.29
(2,27)	1:B:4:U:H3	1:A:5:G:H1	9	0.29
(2,27)	1:B:4:U:H3	1:B:5:G:H1	9	0.29
(2,27)	1:B:4:U:H3	1:C:5:G:H1	9	0.29
(2,27)	1:B:4:U:H3	1:D:5:G:H1	9	0.29
(2,27)	1:C:4:U:H3	1:A:5:G:H1	9	0.29
(2,27)	1:C:4:U:H3	1:B:5:G:H1	9	0.29
(2,27)	1:C:4:U:H3	1:C:5:G:H1	9	0.29
(2,27)	1:C:4:U:H3	1:D:5:G:H1	9	0.29
(2,27)	1:D:4:U:H3	1:A:5:G:H1	9	0.29
(2,27)	1:D:4:U:H3	1:B:5:G:H1	9	0.29
(2,27)	1:D:4:U:H3	1:C:5:G:H1	9	0.29
(2,27)	1:D:4:U:H3	1:D:5:G:H1	9	0.29
(2,18)	1:A:3:G:H1	1:A:4:U:H3	11	0.29
(2,18)	1:A:3:G:H1	1:B:4:U:H3	11	0.29
(2,18)	1:A:3:G:H1	1:C:4:U:H3	11	0.29
(2,18)	1:A:3:G:H1	1:D:4:U:H3	11	0.29
(2,18)	1:B:3:G:H1	1:A:4:U:H3	11	0.29
(2,18)	1:B:3:G:H1	1:B:4:U:H3	11	0.29
(2,18)	1:B:3:G:H1	1:C:4:U:H3	11	0.29
(2,18)	1:B:3:G:H1	1:D:4:U:H3	11	0.29
(2,18)	1:C:3:G:H1	1:A:4:U:H3	11	0.29
(2,18)	1:C:3:G:H1	1:B:4:U:H3	11	0.29
(2,18)	1:C:3:G:H1	1:C:4:U:H3	11	0.29
(2,18)	1:C:3:G:H1	1:D:4:U:H3	11	0.29
(2,18)	1:D:3:G:H1	1:A:4:U:H3	11	0.29
(2,18)	1:D:3:G:H1	1:B:4:U:H3	11	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,18)	1:D:3:G:H1	1:C:4:U:H3	11	0.29
(2,18)	1:D:3:G:H1	1:D:4:U:H3	11	0.29
(2,27)	1:A:4:U:H3	1:A:5:G:H1	2	0.28
(2,27)	1:A:4:U:H3	1:B:5:G:H1	2	0.28
(2,27)	1:A:4:U:H3	1:C:5:G:H1	2	0.28
(2,27)	1:A:4:U:H3	1:D:5:G:H1	2	0.28
(2,27)	1:B:4:U:H3	1:A:5:G:H1	2	0.28
(2,27)	1:B:4:U:H3	1:B:5:G:H1	2	0.28
(2,27)	1:B:4:U:H3	1:C:5:G:H1	2	0.28
(2,27)	1:B:4:U:H3	1:D:5:G:H1	2	0.28
(2,27)	1:C:4:U:H3	1:A:5:G:H1	2	0.28
(2,27)	1:C:4:U:H3	1:B:5:G:H1	2	0.28
(2,27)	1:C:4:U:H3	1:C:5:G:H1	2	0.28
(2,27)	1:C:4:U:H3	1:D:5:G:H1	2	0.28
(2,27)	1:D:4:U:H3	1:A:5:G:H1	2	0.28
(2,27)	1:D:4:U:H3	1:B:5:G:H1	2	0.28
(2,27)	1:D:4:U:H3	1:C:5:G:H1	2	0.28
(2,27)	1:D:4:U:H3	1:D:5:G:H1	2	0.28
(2,27)	1:A:4:U:H3	1:A:5:G:H1	5	0.28
(2,27)	1:A:4:U:H3	1:B:5:G:H1	5	0.28
(2,27)	1:A:4:U:H3	1:C:5:G:H1	5	0.28
(2,27)	1:A:4:U:H3	1:D:5:G:H1	5	0.28
(2,27)	1:B:4:U:H3	1:A:5:G:H1	5	0.28
(2,27)	1:B:4:U:H3	1:B:5:G:H1	5	0.28
(2,27)	1:B:4:U:H3	1:C:5:G:H1	5	0.28
(2,27)	1:B:4:U:H3	1:D:5:G:H1	5	0.28
(2,27)	1:C:4:U:H3	1:A:5:G:H1	5	0.28
(2,27)	1:C:4:U:H3	1:B:5:G:H1	5	0.28
(2,27)	1:C:4:U:H3	1:C:5:G:H1	5	0.28
(2,27)	1:C:4:U:H3	1:D:5:G:H1	5	0.28
(2,27)	1:D:4:U:H3	1:A:5:G:H1	5	0.28
(2,27)	1:D:4:U:H3	1:B:5:G:H1	5	0.28
(2,27)	1:D:4:U:H3	1:C:5:G:H1	5	0.28
(2,27)	1:D:4:U:H3	1:D:5:G:H1	5	0.28
(2,27)	1:A:4:U:H3	1:A:5:G:H1	12	0.28
(2,27)	1:A:4:U:H3	1:B:5:G:H1	12	0.28
(2,27)	1:A:4:U:H3	1:C:5:G:H1	12	0.28
(2,27)	1:A:4:U:H3	1:D:5:G:H1	12	0.28
(2,27)	1:B:4:U:H3	1:A:5:G:H1	12	0.28
(2,27)	1:B:4:U:H3	1:B:5:G:H1	12	0.28
(2,27)	1:B:4:U:H3	1:C:5:G:H1	12	0.28
(2,27)	1:B:4:U:H3	1:D:5:G:H1	12	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,27)	1:C:4:U:H3	1:A:5:G:H1	12	0.28
(2,27)	1:C:4:U:H3	1:B:5:G:H1	12	0.28
(2,27)	1:C:4:U:H3	1:C:5:G:H1	12	0.28
(2,27)	1:C:4:U:H3	1:D:5:G:H1	12	0.28
(2,27)	1:D:4:U:H3	1:A:5:G:H1	12	0.28
(2,27)	1:D:4:U:H3	1:B:5:G:H1	12	0.28
(2,27)	1:D:4:U:H3	1:C:5:G:H1	12	0.28
(2,27)	1:D:4:U:H3	1:D:5:G:H1	12	0.28
(2,13)	1:A:2:G:H22	1:A:1:U:H5	9	0.28
(2,13)	1:A:2:G:H22	1:B:1:U:H5	9	0.28
(2,13)	1:A:2:G:H22	1:C:1:U:H5	9	0.28
(2,13)	1:A:2:G:H22	1:D:1:U:H5	9	0.28
(2,13)	1:B:2:G:H22	1:A:1:U:H5	9	0.28
(2,13)	1:B:2:G:H22	1:B:1:U:H5	9	0.28
(2,13)	1:B:2:G:H22	1:C:1:U:H5	9	0.28
(2,13)	1:B:2:G:H22	1:D:1:U:H5	9	0.28
(2,13)	1:C:2:G:H22	1:A:1:U:H5	9	0.28
(2,13)	1:C:2:G:H22	1:B:1:U:H5	9	0.28
(2,13)	1:C:2:G:H22	1:C:1:U:H5	9	0.28
(2,13)	1:C:2:G:H22	1:D:1:U:H5	9	0.28
(2,13)	1:D:2:G:H22	1:A:1:U:H5	9	0.28
(2,13)	1:D:2:G:H22	1:B:1:U:H5	9	0.28
(2,13)	1:D:2:G:H22	1:C:1:U:H5	9	0.28
(2,13)	1:D:2:G:H22	1:D:1:U:H5	9	0.28
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	4	0.28
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	4	0.28
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	4	0.28
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	4	0.28
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	4	0.28
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	4	0.28
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	4	0.28
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	4	0.28
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	4	0.28
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	4	0.28
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	4	0.28
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	4	0.28
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	4	0.28
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	4	0.28
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	4	0.28
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	4	0.28
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	4	0.28
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	4	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	4	0.28
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	4	0.28
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	4	0.28
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	4	0.28
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	4	0.28
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	4	0.28
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	4	0.28
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	4	0.28
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	4	0.28
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	4	0.28
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	4	0.28
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	4	0.28
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	4	0.28
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	4	0.28
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	6	0.28
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	6	0.28
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	6	0.28
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	6	0.28
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	6	0.28
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	6	0.28
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	6	0.28
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	6	0.28
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	6	0.28
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	6	0.28
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	6	0.28
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	6	0.28
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	6	0.28
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	6	0.28
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	6	0.28
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	6	0.28
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	6	0.28
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	6	0.28
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	6	0.28
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	6	0.28
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	6	0.28
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	6	0.28
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	6	0.28
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	6	0.28
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	6	0.28
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	6	0.28
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	6	0.28
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	6	0.28
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	6	0.28
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	6	0.28
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	6	0.28
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	8	0.28
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	8	0.28
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	8	0.28
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	8	0.28
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	8	0.28
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	8	0.28
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	8	0.28
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	8	0.28
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	8	0.28
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	8	0.28
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	8	0.28
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	8	0.28
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	8	0.28
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	8	0.28
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	8	0.28
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	8	0.28
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	8	0.28
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	8	0.28
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	8	0.28
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	8	0.28
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	8	0.28
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	8	0.28
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	8	0.28
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	8	0.28
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	8	0.28
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	8	0.28
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	8	0.28
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	8	0.28
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	8	0.28
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	8	0.28
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	8	0.28
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	8	0.28
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	9	0.28
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	9	0.28
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	9	0.28
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	9	0.28
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	9	0.28
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	9	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	9	0.28
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	9	0.28
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	9	0.28
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	9	0.28
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	9	0.28
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	9	0.28
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	9	0.28
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	9	0.28
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	9	0.28
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	9	0.28
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	9	0.28
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	9	0.28
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	9	0.28
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	9	0.28
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	9	0.28
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	9	0.28
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	9	0.28
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	9	0.28
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	9	0.28
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	9	0.28
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	9	0.28
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	9	0.28
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	9	0.28
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	9	0.28
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	9	0.28
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	9	0.28
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	10	0.28
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	10	0.28
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	10	0.28
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	10	0.28
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	10	0.28
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	10	0.28
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	10	0.28
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	10	0.28
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	10	0.28
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	10	0.28
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	10	0.28
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	10	0.28
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	10	0.28
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	10	0.28
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	10	0.28
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	10	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	10	0.28
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	10	0.28
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	10	0.28
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	10	0.28
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	10	0.28
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	10	0.28
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	10	0.28
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	10	0.28
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	10	0.28
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	10	0.28
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	10	0.28
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	10	0.28
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	10	0.28
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	10	0.28
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	10	0.28
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	10	0.28
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	12	0.28
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	12	0.28
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	12	0.28
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	12	0.28
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	12	0.28
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	12	0.28
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	12	0.28
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	12	0.28
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	12	0.28
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	12	0.28
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	12	0.28
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	12	0.28
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	12	0.28
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	12	0.28
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	12	0.28
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	12	0.28
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	12	0.28
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	12	0.28
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	12	0.28
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	12	0.28
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	12	0.28
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	12	0.28
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	12	0.28
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	12	0.28
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	12	0.28
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	12	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	12	0.28
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	12	0.28
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	12	0.28
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	12	0.28
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	12	0.28
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	12	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	2	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	2	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	2	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	2	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	2	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	2	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	2	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	2	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	2	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	2	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	2	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	2	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	2	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	2	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	2	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	2	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	2	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	2	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	2	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	2	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	2	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	2	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	2	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	2	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	2	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	2	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	2	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	2	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	2	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	2	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	2	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	2	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	3	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	3	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	3	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	3	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	3	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	3	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	3	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	3	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	3	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	3	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	3	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	3	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	3	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	3	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	3	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	3	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	3	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	3	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	3	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	3	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	3	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	3	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	3	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	3	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	3	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	3	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	3	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	3	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	3	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	3	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	3	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	6	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	6	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	6	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	6	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	6	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	6	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	6	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	6	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	6	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	6	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	6	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	6	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	6	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	6	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	6	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	6	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	6	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	6	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	6	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	6	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	6	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	6	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	6	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	6	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	6	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	6	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	6	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	6	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	6	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	6	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	6	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	9	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	9	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	9	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	9	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	9	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	9	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	9	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	9	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	9	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	9	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	9	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	9	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	9	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	9	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	9	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	9	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	9	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	9	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	9	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	9	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	9	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	9	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	9	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	9	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	9	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	9	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	9	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	9	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	9	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	9	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	9	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	9	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	12	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	12	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	12	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	12	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	12	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	12	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	12	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	12	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	12	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	12	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	12	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	12	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	12	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	12	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	12	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	12	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	12	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	12	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	12	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	12	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	12	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	12	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	12	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	12	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	12	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	12	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	12	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	12	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	12	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	12	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	12	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	12	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	13	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	13	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	13	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	13	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	13	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	13	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	13	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	13	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	13	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	13	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	13	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	13	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	13	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	13	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	13	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	13	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	13	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	13	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	13	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	13	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	13	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	13	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	13	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	13	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	13	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	13	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	13	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	13	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	13	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	13	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	13	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	13	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	14	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	14	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	14	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	14	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	14	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	14	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	14	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	14	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	14	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	14	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	14	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	14	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	14	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	14	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	14	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	14	0.28
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	14	0.28
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	14	0.28
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	14	0.28
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	14	0.28
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	14	0.28
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	14	0.28
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	14	0.28
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	14	0.28
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	14	0.28
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	14	0.28
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	14	0.28
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	14	0.28
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	14	0.28
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	14	0.28
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	14	0.28
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	14	0.28
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	1	0.27
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	1	0.27
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	1	0.27
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	1	0.27
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	1	0.27
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	1	0.27
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	1	0.27
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	1	0.27
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	1	0.27
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	1	0.27
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	1	0.27
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	1	0.27
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	1	0.27
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	1	0.27
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	1	0.27
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	1	0.27
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	1	0.27
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	1	0.27
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	1	0.27
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	1	0.27
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	1	0.27
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	1	0.27
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	1	0.27
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	1	0.27
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	1	0.27
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	1	0.27
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	1	0.27
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	1	0.27
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	1	0.27
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	1	0.27
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	1	0.27
(2,6)	1:A:2:G:H8	1:A:2:G:H21	7	0.27
(2,6)	1:A:2:G:H8	1:B:2:G:H21	7	0.27
(2,6)	1:A:2:G:H8	1:C:2:G:H21	7	0.27
(2,6)	1:A:2:G:H8	1:D:2:G:H21	7	0.27
(2,6)	1:B:2:G:H8	1:A:2:G:H21	7	0.27
(2,6)	1:B:2:G:H8	1:B:2:G:H21	7	0.27
(2,6)	1:B:2:G:H8	1:C:2:G:H21	7	0.27
(2,6)	1:B:2:G:H8	1:D:2:G:H21	7	0.27
(2,6)	1:C:2:G:H8	1:A:2:G:H21	7	0.27
(2,6)	1:C:2:G:H8	1:B:2:G:H21	7	0.27
(2,6)	1:C:2:G:H8	1:C:2:G:H21	7	0.27
(2,6)	1:C:2:G:H8	1:D:2:G:H21	7	0.27
(2,6)	1:D:2:G:H8	1:A:2:G:H21	7	0.27
(2,6)	1:D:2:G:H8	1:B:2:G:H21	7	0.27
(2,6)	1:D:2:G:H8	1:C:2:G:H21	7	0.27
(2,6)	1:D:2:G:H8	1:D:2:G:H21	7	0.27
(2,6)	1:A:2:G:H8	1:A:2:G:H21	8	0.27
(2,6)	1:A:2:G:H8	1:B:2:G:H21	8	0.27
(2,6)	1:A:2:G:H8	1:C:2:G:H21	8	0.27
(2,6)	1:A:2:G:H8	1:D:2:G:H21	8	0.27
(2,6)	1:B:2:G:H8	1:A:2:G:H21	8	0.27
(2,6)	1:B:2:G:H8	1:B:2:G:H21	8	0.27
(2,6)	1:B:2:G:H8	1:C:2:G:H21	8	0.27
(2,6)	1:B:2:G:H8	1:D:2:G:H21	8	0.27
(2,6)	1:C:2:G:H8	1:A:2:G:H21	8	0.27
(2,6)	1:C:2:G:H8	1:B:2:G:H21	8	0.27
(2,6)	1:C:2:G:H8	1:C:2:G:H21	8	0.27
(2,6)	1:C:2:G:H8	1:D:2:G:H21	8	0.27
(2,6)	1:D:2:G:H8	1:A:2:G:H21	8	0.27
(2,6)	1:D:2:G:H8	1:B:2:G:H21	8	0.27
(2,6)	1:D:2:G:H8	1:C:2:G:H21	8	0.27
(2,6)	1:D:2:G:H8	1:D:2:G:H21	8	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,27)	1:A:4:U:H3	1:A:5:G:H1	6	0.27
(2,27)	1:A:4:U:H3	1:B:5:G:H1	6	0.27
(2,27)	1:A:4:U:H3	1:C:5:G:H1	6	0.27
(2,27)	1:A:4:U:H3	1:D:5:G:H1	6	0.27
(2,27)	1:B:4:U:H3	1:A:5:G:H1	6	0.27
(2,27)	1:B:4:U:H3	1:B:5:G:H1	6	0.27
(2,27)	1:B:4:U:H3	1:C:5:G:H1	6	0.27
(2,27)	1:B:4:U:H3	1:D:5:G:H1	6	0.27
(2,27)	1:C:4:U:H3	1:A:5:G:H1	6	0.27
(2,27)	1:C:4:U:H3	1:B:5:G:H1	6	0.27
(2,27)	1:C:4:U:H3	1:C:5:G:H1	6	0.27
(2,27)	1:C:4:U:H3	1:D:5:G:H1	6	0.27
(2,27)	1:D:4:U:H3	1:A:5:G:H1	6	0.27
(2,27)	1:D:4:U:H3	1:B:5:G:H1	6	0.27
(2,27)	1:D:4:U:H3	1:C:5:G:H1	6	0.27
(2,27)	1:D:4:U:H3	1:D:5:G:H1	6	0.27
(2,27)	1:A:4:U:H3	1:A:5:G:H1	14	0.27
(2,27)	1:A:4:U:H3	1:B:5:G:H1	14	0.27
(2,27)	1:A:4:U:H3	1:C:5:G:H1	14	0.27
(2,27)	1:A:4:U:H3	1:D:5:G:H1	14	0.27
(2,27)	1:B:4:U:H3	1:A:5:G:H1	14	0.27
(2,27)	1:B:4:U:H3	1:B:5:G:H1	14	0.27
(2,27)	1:B:4:U:H3	1:C:5:G:H1	14	0.27
(2,27)	1:B:4:U:H3	1:D:5:G:H1	14	0.27
(2,27)	1:C:4:U:H3	1:A:5:G:H1	14	0.27
(2,27)	1:C:4:U:H3	1:B:5:G:H1	14	0.27
(2,27)	1:C:4:U:H3	1:C:5:G:H1	14	0.27
(2,27)	1:C:4:U:H3	1:D:5:G:H1	14	0.27
(2,27)	1:D:4:U:H3	1:A:5:G:H1	14	0.27
(2,27)	1:D:4:U:H3	1:B:5:G:H1	14	0.27
(2,27)	1:D:4:U:H3	1:C:5:G:H1	14	0.27
(2,27)	1:D:4:U:H3	1:D:5:G:H1	14	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	1	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	1	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	1	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	1	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	1	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	1	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	1	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	1	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	1	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	1	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	1	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	1	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	1	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	1	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	1	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	1	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	1	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	1	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	1	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	1	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	1	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	1	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	1	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	1	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	1	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	1	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	1	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	1	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	1	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	1	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	1	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	2	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	2	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	2	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	2	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	2	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	2	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	2	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	2	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	2	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	2	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	2	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	2	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	2	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	2	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	2	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	2	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	2	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	2	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	2	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	2	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	2	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	2	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	2	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	2	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	2	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	2	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	2	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	2	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	2	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	2	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	2	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	2	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	3	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	3	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	3	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	3	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	3	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	3	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	3	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	3	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	3	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	3	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	3	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	3	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	3	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	3	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	3	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	3	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	3	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	3	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	3	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	3	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	3	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	3	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	3	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	3	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	3	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	3	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	3	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	3	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	3	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	3	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	3	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	3	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	5	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	5	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	5	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	5	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	5	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	5	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	5	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	5	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	5	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	5	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	5	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	5	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	5	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	5	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	5	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	5	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	5	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	5	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	5	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	5	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	5	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	5	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	5	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	5	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	5	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	5	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	5	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	5	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	5	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	5	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	5	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	5	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	7	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	7	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	7	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	7	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	7	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	7	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	7	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	7	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	7	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	7	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	7	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	7	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	7	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	7	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	7	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	7	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	7	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	7	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	7	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	7	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	7	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	7	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	7	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	7	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	7	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	7	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	7	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	7	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	7	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	7	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	7	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	11	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	11	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	11	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	11	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	11	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	11	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	11	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	11	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	11	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	11	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	11	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	11	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	11	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	11	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	11	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	11	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	11	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	11	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	11	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	11	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	11	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	11	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	11	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	11	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	11	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	11	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	11	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	11	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	11	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	11	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	11	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	11	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	13	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	13	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	13	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	13	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	13	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	13	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	13	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	13	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	13	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	13	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	13	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	13	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	13	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	13	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	13	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	13	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	13	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	13	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	13	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	13	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	13	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	13	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	13	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	13	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	13	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	13	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	13	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	13	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	13	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	13	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	13	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	13	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	14	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	14	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	14	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	14	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	14	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	14	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	14	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	14	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	14	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	14	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	14	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	14	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	14	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	14	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	14	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	14	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	14	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	14	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	14	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	14	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	14	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	14	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	14	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	14	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	14	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	14	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	14	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	14	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	14	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	14	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	14	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	14	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5''	15	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5''	15	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5''	15	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5''	15	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5''	15	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5''	15	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:B:6:G:H4'	1:C:6:G:H5''	15	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5''	15	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5''	15	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5''	15	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5''	15	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5''	15	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5''	15	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5''	15	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5''	15	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5''	15	0.27
(1,75)	1:A:6:G:H4'	1:A:6:G:H5'	15	0.27
(1,75)	1:A:6:G:H4'	1:B:6:G:H5'	15	0.27
(1,75)	1:A:6:G:H4'	1:C:6:G:H5'	15	0.27
(1,75)	1:A:6:G:H4'	1:D:6:G:H5'	15	0.27
(1,75)	1:B:6:G:H4'	1:A:6:G:H5'	15	0.27
(1,75)	1:B:6:G:H4'	1:B:6:G:H5'	15	0.27
(1,75)	1:B:6:G:H4'	1:C:6:G:H5'	15	0.27
(1,75)	1:B:6:G:H4'	1:D:6:G:H5'	15	0.27
(1,75)	1:C:6:G:H4'	1:A:6:G:H5'	15	0.27
(1,75)	1:C:6:G:H4'	1:B:6:G:H5'	15	0.27
(1,75)	1:C:6:G:H4'	1:C:6:G:H5'	15	0.27
(1,75)	1:C:6:G:H4'	1:D:6:G:H5'	15	0.27
(1,75)	1:D:6:G:H4'	1:A:6:G:H5'	15	0.27
(1,75)	1:D:6:G:H4'	1:B:6:G:H5'	15	0.27
(1,75)	1:D:6:G:H4'	1:C:6:G:H5'	15	0.27
(1,75)	1:D:6:G:H4'	1:D:6:G:H5'	15	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	1	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	1	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	1	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	1	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	1	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	1	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	1	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	1	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	1	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	1	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	1	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	1	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	1	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	1	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	1	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	1	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	1	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	1	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	1	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	1	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	1	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	1	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	1	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	1	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	1	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	1	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	1	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	1	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	1	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	1	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	1	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	4	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	4	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	4	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	4	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	4	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	4	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	4	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	4	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	4	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	4	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	4	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	4	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	4	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	4	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	4	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	4	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	4	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	4	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	4	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	4	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	4	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	4	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	4	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	4	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	4	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	4	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	4	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	4	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	4	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	4	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	4	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	4	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	5	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	5	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	5	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	5	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	5	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	5	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	5	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	5	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	5	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	5	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	5	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	5	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	5	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	5	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	5	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	5	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	5	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	5	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	5	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	5	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	5	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	5	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	5	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	5	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	5	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	5	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	5	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	5	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	5	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	5	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	5	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	5	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	7	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	7	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	7	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	7	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	7	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	7	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	7	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	7	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	7	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	7	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	7	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	7	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	7	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	7	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	7	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	7	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	7	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	7	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	7	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	7	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	7	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	7	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	7	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	7	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	7	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	7	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	7	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	7	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	7	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	7	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	7	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	10	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	10	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	10	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	10	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	10	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	10	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	10	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	10	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	10	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	10	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	10	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	10	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	10	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	10	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	10	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	10	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	10	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	10	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	10	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	10	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	10	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	10	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	10	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	10	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	10	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	10	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	10	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	10	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	10	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	10	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	10	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	11	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	11	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	11	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	11	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	11	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	11	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	11	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	11	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	11	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	11	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	11	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	11	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	11	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	11	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	11	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	11	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	11	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	11	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	11	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	11	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	11	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	11	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	11	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	11	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	11	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	11	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	11	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	11	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	11	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	11	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	11	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	11	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	15	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	15	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	15	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	15	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	15	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	15	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	15	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	15	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	15	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	15	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	15	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	15	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	15	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	15	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	15	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	15	0.27
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	15	0.27
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	15	0.27
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	15	0.27
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	15	0.27
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	15	0.27
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	15	0.27
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	15	0.27
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	15	0.27
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	15	0.27
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	15	0.27
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	15	0.27
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	15	0.27
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	15	0.27
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	15	0.27
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	15	0.27
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	15	0.27
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	4	0.26
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	4	0.26
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	4	0.26
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	4	0.26
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	4	0.26
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	4	0.26
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	4	0.26
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	4	0.26
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	4	0.26
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	4	0.26
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	4	0.26
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	4	0.26
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	4	0.26
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	4	0.26
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	4	0.26
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	4	0.26
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	4	0.26
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	4	0.26
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	4	0.26
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	4	0.26
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	4	0.26
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	4	0.26
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	4	0.26
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	4	0.26
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	4	0.26
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	4	0.26
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	4	0.26
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	4	0.26
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	4	0.26
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	4	0.26
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	4	0.26
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	8	0.26
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	8	0.26
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	8	0.26
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	8	0.26
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	8	0.26
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	8	0.26
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	8	0.26
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	8	0.26
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	8	0.26
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	8	0.26
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	8	0.26
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	8	0.26
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	8	0.26
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	8	0.26
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	8	0.26
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	8	0.26
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	8	0.26
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	8	0.26
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	8	0.26
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	8	0.26
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	8	0.26
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	8	0.26
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	8	0.26
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	8	0.26
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	8	0.26
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	8	0.26
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	8	0.26
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	8	0.26
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	8	0.26
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	8	0.26
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	8	0.26
(2,6)	1:A:2:G:H8	1:A:2:G:H21	14	0.26
(2,6)	1:A:2:G:H8	1:B:2:G:H21	14	0.26
(2,6)	1:A:2:G:H8	1:C:2:G:H21	14	0.26
(2,6)	1:A:2:G:H8	1:D:2:G:H21	14	0.26
(2,6)	1:B:2:G:H8	1:A:2:G:H21	14	0.26
(2,6)	1:B:2:G:H8	1:B:2:G:H21	14	0.26
(2,6)	1:B:2:G:H8	1:C:2:G:H21	14	0.26
(2,6)	1:B:2:G:H8	1:D:2:G:H21	14	0.26
(2,6)	1:C:2:G:H8	1:A:2:G:H21	14	0.26
(2,6)	1:C:2:G:H8	1:B:2:G:H21	14	0.26
(2,6)	1:C:2:G:H8	1:C:2:G:H21	14	0.26
(2,6)	1:C:2:G:H8	1:D:2:G:H21	14	0.26
(2,6)	1:D:2:G:H8	1:A:2:G:H21	14	0.26
(2,6)	1:D:2:G:H8	1:B:2:G:H21	14	0.26
(2,6)	1:D:2:G:H8	1:C:2:G:H21	14	0.26
(2,6)	1:D:2:G:H8	1:D:2:G:H21	14	0.26
(2,27)	1:A:4:U:H3	1:A:5:G:H1	8	0.26
(2,27)	1:A:4:U:H3	1:B:5:G:H1	8	0.26
(2,27)	1:A:4:U:H3	1:C:5:G:H1	8	0.26
(2,27)	1:A:4:U:H3	1:D:5:G:H1	8	0.26
(2,27)	1:B:4:U:H3	1:A:5:G:H1	8	0.26
(2,27)	1:B:4:U:H3	1:B:5:G:H1	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,27)	1:B:4:U:H3	1:C:5:G:H1	8	0.26
(2,27)	1:B:4:U:H3	1:D:5:G:H1	8	0.26
(2,27)	1:C:4:U:H3	1:A:5:G:H1	8	0.26
(2,27)	1:C:4:U:H3	1:B:5:G:H1	8	0.26
(2,27)	1:C:4:U:H3	1:C:5:G:H1	8	0.26
(2,27)	1:C:4:U:H3	1:D:5:G:H1	8	0.26
(2,27)	1:D:4:U:H3	1:A:5:G:H1	8	0.26
(2,27)	1:D:4:U:H3	1:B:5:G:H1	8	0.26
(2,27)	1:D:4:U:H3	1:C:5:G:H1	8	0.26
(2,27)	1:D:4:U:H3	1:D:5:G:H1	8	0.26
(2,27)	1:A:4:U:H3	1:A:5:G:H1	10	0.26
(2,27)	1:A:4:U:H3	1:B:5:G:H1	10	0.26
(2,27)	1:A:4:U:H3	1:C:5:G:H1	10	0.26
(2,27)	1:A:4:U:H3	1:D:5:G:H1	10	0.26
(2,27)	1:B:4:U:H3	1:A:5:G:H1	10	0.26
(2,27)	1:B:4:U:H3	1:B:5:G:H1	10	0.26
(2,27)	1:B:4:U:H3	1:C:5:G:H1	10	0.26
(2,27)	1:B:4:U:H3	1:D:5:G:H1	10	0.26
(2,27)	1:C:4:U:H3	1:A:5:G:H1	10	0.26
(2,27)	1:C:4:U:H3	1:B:5:G:H1	10	0.26
(2,27)	1:C:4:U:H3	1:C:5:G:H1	10	0.26
(2,27)	1:C:4:U:H3	1:D:5:G:H1	10	0.26
(2,27)	1:D:4:U:H3	1:A:5:G:H1	10	0.26
(2,27)	1:D:4:U:H3	1:B:5:G:H1	10	0.26
(2,27)	1:D:4:U:H3	1:C:5:G:H1	10	0.26
(2,27)	1:D:4:U:H3	1:D:5:G:H1	10	0.26
(2,27)	1:A:4:U:H3	1:A:5:G:H1	15	0.26
(2,27)	1:A:4:U:H3	1:B:5:G:H1	15	0.26
(2,27)	1:A:4:U:H3	1:C:5:G:H1	15	0.26
(2,27)	1:A:4:U:H3	1:D:5:G:H1	15	0.26
(2,27)	1:B:4:U:H3	1:A:5:G:H1	15	0.26
(2,27)	1:B:4:U:H3	1:B:5:G:H1	15	0.26
(2,27)	1:B:4:U:H3	1:C:5:G:H1	15	0.26
(2,27)	1:B:4:U:H3	1:D:5:G:H1	15	0.26
(2,27)	1:C:4:U:H3	1:A:5:G:H1	15	0.26
(2,27)	1:C:4:U:H3	1:B:5:G:H1	15	0.26
(2,27)	1:C:4:U:H3	1:C:5:G:H1	15	0.26
(2,27)	1:C:4:U:H3	1:D:5:G:H1	15	0.26
(2,27)	1:D:4:U:H3	1:A:5:G:H1	15	0.26
(2,27)	1:D:4:U:H3	1:B:5:G:H1	15	0.26
(2,27)	1:D:4:U:H3	1:C:5:G:H1	15	0.26
(2,27)	1:D:4:U:H3	1:D:5:G:H1	15	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,18)	1:A:3:G:H1	1:A:4:U:H3	1	0.26
(2,18)	1:A:3:G:H1	1:B:4:U:H3	1	0.26
(2,18)	1:A:3:G:H1	1:C:4:U:H3	1	0.26
(2,18)	1:A:3:G:H1	1:D:4:U:H3	1	0.26
(2,18)	1:B:3:G:H1	1:A:4:U:H3	1	0.26
(2,18)	1:B:3:G:H1	1:B:4:U:H3	1	0.26
(2,18)	1:B:3:G:H1	1:C:4:U:H3	1	0.26
(2,18)	1:B:3:G:H1	1:D:4:U:H3	1	0.26
(2,18)	1:C:3:G:H1	1:A:4:U:H3	1	0.26
(2,18)	1:C:3:G:H1	1:B:4:U:H3	1	0.26
(2,18)	1:C:3:G:H1	1:C:4:U:H3	1	0.26
(2,18)	1:C:3:G:H1	1:D:4:U:H3	1	0.26
(2,18)	1:D:3:G:H1	1:A:4:U:H3	1	0.26
(2,18)	1:D:3:G:H1	1:B:4:U:H3	1	0.26
(2,18)	1:D:3:G:H1	1:C:4:U:H3	1	0.26
(2,18)	1:D:3:G:H1	1:D:4:U:H3	1	0.26
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	10	0.26
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	10	0.26
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	10	0.26
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	10	0.26
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	10	0.26
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	10	0.26
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	10	0.26
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	10	0.26
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	10	0.26
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	10	0.26
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	10	0.26
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	10	0.26
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	10	0.26
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	10	0.26
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	10	0.26
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	10	0.26
(1,73)	1:A:3:G:H2''	1:A:4:U:H5''	10	0.26
(1,73)	1:A:3:G:H2''	1:B:4:U:H5''	10	0.26
(1,73)	1:A:3:G:H2''	1:C:4:U:H5''	10	0.26
(1,73)	1:A:3:G:H2''	1:D:4:U:H5''	10	0.26
(1,73)	1:B:3:G:H2''	1:A:4:U:H5''	10	0.26
(1,73)	1:B:3:G:H2''	1:B:4:U:H5''	10	0.26
(1,73)	1:B:3:G:H2''	1:C:4:U:H5''	10	0.26
(1,73)	1:B:3:G:H2''	1:D:4:U:H5''	10	0.26
(1,73)	1:C:3:G:H2''	1:A:4:U:H5''	10	0.26
(1,73)	1:C:3:G:H2''	1:B:4:U:H5''	10	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	10	0.26
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	10	0.26
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	10	0.26
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	10	0.26
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	10	0.26
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	10	0.26
(1,69)	1:A:2:G:H4'	1:A:2:G:H5''	8	0.26
(1,69)	1:A:2:G:H4'	1:B:2:G:H5''	8	0.26
(1,69)	1:A:2:G:H4'	1:C:2:G:H5''	8	0.26
(1,69)	1:A:2:G:H4'	1:D:2:G:H5''	8	0.26
(1,69)	1:B:2:G:H4'	1:A:2:G:H5''	8	0.26
(1,69)	1:B:2:G:H4'	1:B:2:G:H5''	8	0.26
(1,69)	1:B:2:G:H4'	1:C:2:G:H5''	8	0.26
(1,69)	1:B:2:G:H4'	1:D:2:G:H5''	8	0.26
(1,69)	1:C:2:G:H4'	1:A:2:G:H5''	8	0.26
(1,69)	1:C:2:G:H4'	1:B:2:G:H5''	8	0.26
(1,69)	1:C:2:G:H4'	1:C:2:G:H5''	8	0.26
(1,69)	1:C:2:G:H4'	1:D:2:G:H5''	8	0.26
(1,69)	1:D:2:G:H4'	1:A:2:G:H5''	8	0.26
(1,69)	1:D:2:G:H4'	1:B:2:G:H5''	8	0.26
(1,69)	1:D:2:G:H4'	1:C:2:G:H5''	8	0.26
(1,69)	1:D:2:G:H4'	1:D:2:G:H5''	8	0.26
(1,69)	1:A:2:G:H4'	1:A:2:G:H5'	8	0.26
(1,69)	1:A:2:G:H4'	1:B:2:G:H5'	8	0.26
(1,69)	1:A:2:G:H4'	1:C:2:G:H5'	8	0.26
(1,69)	1:A:2:G:H4'	1:D:2:G:H5'	8	0.26
(1,69)	1:B:2:G:H4'	1:A:2:G:H5'	8	0.26
(1,69)	1:B:2:G:H4'	1:B:2:G:H5'	8	0.26
(1,69)	1:B:2:G:H4'	1:C:2:G:H5'	8	0.26
(1,69)	1:B:2:G:H4'	1:D:2:G:H5'	8	0.26
(1,69)	1:C:2:G:H4'	1:A:2:G:H5'	8	0.26
(1,69)	1:C:2:G:H4'	1:B:2:G:H5'	8	0.26
(1,69)	1:C:2:G:H4'	1:C:2:G:H5'	8	0.26
(1,69)	1:C:2:G:H4'	1:D:2:G:H5'	8	0.26
(1,69)	1:D:2:G:H4'	1:A:2:G:H5'	8	0.26
(1,69)	1:D:2:G:H4'	1:B:2:G:H5'	8	0.26
(1,69)	1:D:2:G:H4'	1:C:2:G:H5'	8	0.26
(1,69)	1:D:2:G:H4'	1:D:2:G:H5'	8	0.26
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	9	0.26
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	9	0.26
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	9	0.26
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	9	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	9	0.26
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	9	0.26
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	9	0.26
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	9	0.26
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	9	0.26
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	9	0.26
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	9	0.26
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	9	0.26
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	9	0.26
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	9	0.26
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	9	0.26
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	9	0.26
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	9	0.26
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	9	0.26
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	9	0.26
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	9	0.26
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	9	0.26
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	9	0.26
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	9	0.26
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	9	0.26
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	9	0.26
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	9	0.26
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	9	0.26
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	9	0.26
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	9	0.26
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	9	0.26
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	9	0.26
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	9	0.26
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	9	0.26
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	9	0.26
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	9	0.26
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	9	0.26
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	9	0.26
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	9	0.26
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	9	0.26
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	9	0.26
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	9	0.26
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	9	0.26
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	9	0.26
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	9	0.26
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	9	0.26
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	9	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	9	0.26
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	9	0.26
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	9	0.26
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	9	0.26
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	9	0.26
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	9	0.26
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	9	0.26
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	9	0.26
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	9	0.26
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	9	0.26
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	9	0.26
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	9	0.26
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	9	0.26
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	9	0.26
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	9	0.26
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	9	0.26
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	9	0.26
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	9	0.26
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	13	0.25
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	13	0.25
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	13	0.25
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	13	0.25
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	13	0.25
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	13	0.25
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	13	0.25
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	13	0.25
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	13	0.25
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	13	0.25
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	13	0.25
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	13	0.25
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	13	0.25
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	13	0.25
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	13	0.25
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	13	0.25
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	13	0.25
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	13	0.25
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	13	0.25
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	13	0.25
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	13	0.25
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	13	0.25
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	13	0.25
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	13	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	13	0.25
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	13	0.25
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	13	0.25
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	13	0.25
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	13	0.25
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	13	0.25
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	13	0.25
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	13	0.25
(2,6)	1:A:2:G:H8	1:A:2:G:H21	10	0.25
(2,6)	1:A:2:G:H8	1:B:2:G:H21	10	0.25
(2,6)	1:A:2:G:H8	1:C:2:G:H21	10	0.25
(2,6)	1:A:2:G:H8	1:D:2:G:H21	10	0.25
(2,6)	1:B:2:G:H8	1:A:2:G:H21	10	0.25
(2,6)	1:B:2:G:H8	1:B:2:G:H21	10	0.25
(2,6)	1:B:2:G:H8	1:C:2:G:H21	10	0.25
(2,6)	1:B:2:G:H8	1:D:2:G:H21	10	0.25
(2,6)	1:C:2:G:H8	1:A:2:G:H21	10	0.25
(2,6)	1:C:2:G:H8	1:B:2:G:H21	10	0.25
(2,6)	1:C:2:G:H8	1:C:2:G:H21	10	0.25
(2,6)	1:C:2:G:H8	1:D:2:G:H21	10	0.25
(2,6)	1:D:2:G:H8	1:A:2:G:H21	10	0.25
(2,6)	1:D:2:G:H8	1:B:2:G:H21	10	0.25
(2,6)	1:D:2:G:H8	1:C:2:G:H21	10	0.25
(2,6)	1:D:2:G:H8	1:D:2:G:H21	10	0.25
(2,6)	1:A:2:G:H8	1:A:2:G:H21	12	0.25
(2,6)	1:A:2:G:H8	1:B:2:G:H21	12	0.25
(2,6)	1:A:2:G:H8	1:C:2:G:H21	12	0.25
(2,6)	1:A:2:G:H8	1:D:2:G:H21	12	0.25
(2,6)	1:B:2:G:H8	1:A:2:G:H21	12	0.25
(2,6)	1:B:2:G:H8	1:B:2:G:H21	12	0.25
(2,6)	1:B:2:G:H8	1:C:2:G:H21	12	0.25
(2,6)	1:B:2:G:H8	1:D:2:G:H21	12	0.25
(2,6)	1:C:2:G:H8	1:A:2:G:H21	12	0.25
(2,6)	1:C:2:G:H8	1:B:2:G:H21	12	0.25
(2,6)	1:C:2:G:H8	1:C:2:G:H21	12	0.25
(2,6)	1:C:2:G:H8	1:D:2:G:H21	12	0.25
(2,6)	1:D:2:G:H8	1:A:2:G:H21	12	0.25
(2,6)	1:D:2:G:H8	1:B:2:G:H21	12	0.25
(2,6)	1:D:2:G:H8	1:C:2:G:H21	12	0.25
(2,6)	1:D:2:G:H8	1:D:2:G:H21	12	0.25
(2,6)	1:A:2:G:H8	1:A:2:G:H21	13	0.25
(2,6)	1:A:2:G:H8	1:B:2:G:H21	13	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,6)	1:A:2:G:H8	1:C:2:G:H21	13	0.25
(2,6)	1:A:2:G:H8	1:D:2:G:H21	13	0.25
(2,6)	1:B:2:G:H8	1:A:2:G:H21	13	0.25
(2,6)	1:B:2:G:H8	1:B:2:G:H21	13	0.25
(2,6)	1:B:2:G:H8	1:C:2:G:H21	13	0.25
(2,6)	1:B:2:G:H8	1:D:2:G:H21	13	0.25
(2,6)	1:C:2:G:H8	1:A:2:G:H21	13	0.25
(2,6)	1:C:2:G:H8	1:B:2:G:H21	13	0.25
(2,6)	1:C:2:G:H8	1:C:2:G:H21	13	0.25
(2,6)	1:C:2:G:H8	1:D:2:G:H21	13	0.25
(2,6)	1:D:2:G:H8	1:A:2:G:H21	13	0.25
(2,6)	1:D:2:G:H8	1:B:2:G:H21	13	0.25
(2,6)	1:D:2:G:H8	1:C:2:G:H21	13	0.25
(2,6)	1:D:2:G:H8	1:D:2:G:H21	13	0.25
(2,6)	1:A:2:G:H8	1:A:2:G:H21	15	0.25
(2,6)	1:A:2:G:H8	1:B:2:G:H21	15	0.25
(2,6)	1:A:2:G:H8	1:C:2:G:H21	15	0.25
(2,6)	1:A:2:G:H8	1:D:2:G:H21	15	0.25
(2,6)	1:B:2:G:H8	1:A:2:G:H21	15	0.25
(2,6)	1:B:2:G:H8	1:B:2:G:H21	15	0.25
(2,6)	1:B:2:G:H8	1:C:2:G:H21	15	0.25
(2,6)	1:B:2:G:H8	1:D:2:G:H21	15	0.25
(2,6)	1:C:2:G:H8	1:A:2:G:H21	15	0.25
(2,6)	1:C:2:G:H8	1:B:2:G:H21	15	0.25
(2,6)	1:C:2:G:H8	1:C:2:G:H21	15	0.25
(2,6)	1:C:2:G:H8	1:D:2:G:H21	15	0.25
(2,6)	1:D:2:G:H8	1:A:2:G:H21	15	0.25
(2,6)	1:D:2:G:H8	1:B:2:G:H21	15	0.25
(2,6)	1:D:2:G:H8	1:C:2:G:H21	15	0.25
(2,6)	1:D:2:G:H8	1:D:2:G:H21	15	0.25
(2,27)	1:A:4:U:H3	1:A:5:G:H1	1	0.25
(2,27)	1:A:4:U:H3	1:B:5:G:H1	1	0.25
(2,27)	1:A:4:U:H3	1:C:5:G:H1	1	0.25
(2,27)	1:A:4:U:H3	1:D:5:G:H1	1	0.25
(2,27)	1:B:4:U:H3	1:A:5:G:H1	1	0.25
(2,27)	1:B:4:U:H3	1:B:5:G:H1	1	0.25
(2,27)	1:B:4:U:H3	1:C:5:G:H1	1	0.25
(2,27)	1:B:4:U:H3	1:D:5:G:H1	1	0.25
(2,27)	1:C:4:U:H3	1:A:5:G:H1	1	0.25
(2,27)	1:C:4:U:H3	1:B:5:G:H1	1	0.25
(2,27)	1:C:4:U:H3	1:C:5:G:H1	1	0.25
(2,27)	1:C:4:U:H3	1:D:5:G:H1	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,27)	1:D:4:U:H3	1:A:5:G:H1	1	0.25
(2,27)	1:D:4:U:H3	1:B:5:G:H1	1	0.25
(2,27)	1:D:4:U:H3	1:C:5:G:H1	1	0.25
(2,27)	1:D:4:U:H3	1:D:5:G:H1	1	0.25
(2,27)	1:A:4:U:H3	1:A:5:G:H1	3	0.25
(2,27)	1:A:4:U:H3	1:B:5:G:H1	3	0.25
(2,27)	1:A:4:U:H3	1:C:5:G:H1	3	0.25
(2,27)	1:A:4:U:H3	1:D:5:G:H1	3	0.25
(2,27)	1:B:4:U:H3	1:A:5:G:H1	3	0.25
(2,27)	1:B:4:U:H3	1:B:5:G:H1	3	0.25
(2,27)	1:B:4:U:H3	1:C:5:G:H1	3	0.25
(2,27)	1:B:4:U:H3	1:D:5:G:H1	3	0.25
(2,27)	1:C:4:U:H3	1:A:5:G:H1	3	0.25
(2,27)	1:C:4:U:H3	1:B:5:G:H1	3	0.25
(2,27)	1:C:4:U:H3	1:C:5:G:H1	3	0.25
(2,27)	1:C:4:U:H3	1:D:5:G:H1	3	0.25
(2,27)	1:D:4:U:H3	1:A:5:G:H1	3	0.25
(2,27)	1:D:4:U:H3	1:B:5:G:H1	3	0.25
(2,27)	1:D:4:U:H3	1:C:5:G:H1	3	0.25
(2,27)	1:D:4:U:H3	1:D:5:G:H1	3	0.25
(2,27)	1:A:4:U:H3	1:A:5:G:H1	13	0.25
(2,27)	1:A:4:U:H3	1:B:5:G:H1	13	0.25
(2,27)	1:A:4:U:H3	1:C:5:G:H1	13	0.25
(2,27)	1:A:4:U:H3	1:D:5:G:H1	13	0.25
(2,27)	1:B:4:U:H3	1:A:5:G:H1	13	0.25
(2,27)	1:B:4:U:H3	1:B:5:G:H1	13	0.25
(2,27)	1:B:4:U:H3	1:C:5:G:H1	13	0.25
(2,27)	1:B:4:U:H3	1:D:5:G:H1	13	0.25
(2,27)	1:C:4:U:H3	1:A:5:G:H1	13	0.25
(2,27)	1:C:4:U:H3	1:B:5:G:H1	13	0.25
(2,27)	1:C:4:U:H3	1:C:5:G:H1	13	0.25
(2,27)	1:C:4:U:H3	1:D:5:G:H1	13	0.25
(2,27)	1:D:4:U:H3	1:A:5:G:H1	13	0.25
(2,27)	1:D:4:U:H3	1:B:5:G:H1	13	0.25
(2,27)	1:D:4:U:H3	1:C:5:G:H1	13	0.25
(2,27)	1:D:4:U:H3	1:D:5:G:H1	13	0.25
(2,2)	1:A:1:U:H5	1:A:2:G:H1	8	0.25
(2,2)	1:A:1:U:H5	1:B:2:G:H1	8	0.25
(2,2)	1:A:1:U:H5	1:C:2:G:H1	8	0.25
(2,2)	1:A:1:U:H5	1:D:2:G:H1	8	0.25
(2,2)	1:B:1:U:H5	1:A:2:G:H1	8	0.25
(2,2)	1:B:1:U:H5	1:B:2:G:H1	8	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2)	1:B:1:U:H5	1:C:2:G:H1	8	0.25
(2,2)	1:B:1:U:H5	1:D:2:G:H1	8	0.25
(2,2)	1:C:1:U:H5	1:A:2:G:H1	8	0.25
(2,2)	1:C:1:U:H5	1:B:2:G:H1	8	0.25
(2,2)	1:C:1:U:H5	1:C:2:G:H1	8	0.25
(2,2)	1:C:1:U:H5	1:D:2:G:H1	8	0.25
(2,2)	1:D:1:U:H5	1:A:2:G:H1	8	0.25
(2,2)	1:D:1:U:H5	1:B:2:G:H1	8	0.25
(2,2)	1:D:1:U:H5	1:C:2:G:H1	8	0.25
(2,2)	1:D:1:U:H5	1:D:2:G:H1	8	0.25
(2,1)	1:A:1:U:H5	1:A:1:U:H3	3	0.25
(2,1)	1:A:1:U:H5	1:B:1:U:H3	3	0.25
(2,1)	1:A:1:U:H5	1:C:1:U:H3	3	0.25
(2,1)	1:A:1:U:H5	1:D:1:U:H3	3	0.25
(2,1)	1:B:1:U:H5	1:A:1:U:H3	3	0.25
(2,1)	1:B:1:U:H5	1:B:1:U:H3	3	0.25
(2,1)	1:B:1:U:H5	1:C:1:U:H3	3	0.25
(2,1)	1:B:1:U:H5	1:D:1:U:H3	3	0.25
(2,1)	1:C:1:U:H5	1:A:1:U:H3	3	0.25
(2,1)	1:C:1:U:H5	1:B:1:U:H3	3	0.25
(2,1)	1:C:1:U:H5	1:C:1:U:H3	3	0.25
(2,1)	1:C:1:U:H5	1:D:1:U:H3	3	0.25
(2,1)	1:D:1:U:H5	1:A:1:U:H3	3	0.25
(2,1)	1:D:1:U:H5	1:B:1:U:H3	3	0.25
(2,1)	1:D:1:U:H5	1:C:1:U:H3	3	0.25
(2,1)	1:D:1:U:H5	1:D:1:U:H3	3	0.25
(2,1)	1:A:1:U:H5	1:A:1:U:H3	11	0.25
(2,1)	1:A:1:U:H5	1:B:1:U:H3	11	0.25
(2,1)	1:A:1:U:H5	1:C:1:U:H3	11	0.25
(2,1)	1:A:1:U:H5	1:D:1:U:H3	11	0.25
(2,1)	1:B:1:U:H5	1:A:1:U:H3	11	0.25
(2,1)	1:B:1:U:H5	1:B:1:U:H3	11	0.25
(2,1)	1:B:1:U:H5	1:C:1:U:H3	11	0.25
(2,1)	1:B:1:U:H5	1:D:1:U:H3	11	0.25
(2,1)	1:C:1:U:H5	1:A:1:U:H3	11	0.25
(2,1)	1:C:1:U:H5	1:B:1:U:H3	11	0.25
(2,1)	1:C:1:U:H5	1:C:1:U:H3	11	0.25
(2,1)	1:C:1:U:H5	1:D:1:U:H3	11	0.25
(2,1)	1:D:1:U:H5	1:A:1:U:H3	11	0.25
(2,1)	1:D:1:U:H5	1:B:1:U:H3	11	0.25
(2,1)	1:D:1:U:H5	1:C:1:U:H3	11	0.25
(2,1)	1:D:1:U:H5	1:D:1:U:H3	11	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	2	0.24
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	2	0.24
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	2	0.24
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	2	0.24
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	2	0.24
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	2	0.24
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	2	0.24
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	2	0.24
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	2	0.24
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	2	0.24
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	2	0.24
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	2	0.24
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	2	0.24
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	2	0.24
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	2	0.24
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	2	0.24
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	2	0.24
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	2	0.24
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	2	0.24
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	2	0.24
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	2	0.24
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	2	0.24
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	2	0.24
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	2	0.24
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	2	0.24
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	2	0.24
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	2	0.24
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	2	0.24
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	2	0.24
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	2	0.24
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	2	0.24
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	2	0.24
(2,6)	1:A:2:G:H8	1:A:2:G:H21	3	0.24
(2,6)	1:A:2:G:H8	1:B:2:G:H21	3	0.24
(2,6)	1:A:2:G:H8	1:C:2:G:H21	3	0.24
(2,6)	1:A:2:G:H8	1:D:2:G:H21	3	0.24
(2,6)	1:B:2:G:H8	1:A:2:G:H21	3	0.24
(2,6)	1:B:2:G:H8	1:B:2:G:H21	3	0.24
(2,6)	1:B:2:G:H8	1:C:2:G:H21	3	0.24
(2,6)	1:B:2:G:H8	1:D:2:G:H21	3	0.24
(2,6)	1:C:2:G:H8	1:A:2:G:H21	3	0.24
(2,6)	1:C:2:G:H8	1:B:2:G:H21	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,6)	1:C:2:G:H8	1:C:2:G:H21	3	0.24
(2,6)	1:C:2:G:H8	1:D:2:G:H21	3	0.24
(2,6)	1:D:2:G:H8	1:A:2:G:H21	3	0.24
(2,6)	1:D:2:G:H8	1:B:2:G:H21	3	0.24
(2,6)	1:D:2:G:H8	1:C:2:G:H21	3	0.24
(2,6)	1:D:2:G:H8	1:D:2:G:H21	3	0.24
(2,23)	1:A:4:U:H5	1:A:4:U:H3	14	0.24
(2,23)	1:A:4:U:H5	1:B:4:U:H3	14	0.24
(2,23)	1:A:4:U:H5	1:C:4:U:H3	14	0.24
(2,23)	1:A:4:U:H5	1:D:4:U:H3	14	0.24
(2,23)	1:B:4:U:H5	1:A:4:U:H3	14	0.24
(2,23)	1:B:4:U:H5	1:B:4:U:H3	14	0.24
(2,23)	1:B:4:U:H5	1:C:4:U:H3	14	0.24
(2,23)	1:B:4:U:H5	1:D:4:U:H3	14	0.24
(2,23)	1:C:4:U:H5	1:A:4:U:H3	14	0.24
(2,23)	1:C:4:U:H5	1:B:4:U:H3	14	0.24
(2,23)	1:C:4:U:H5	1:C:4:U:H3	14	0.24
(2,23)	1:C:4:U:H5	1:D:4:U:H3	14	0.24
(2,23)	1:D:4:U:H5	1:A:4:U:H3	14	0.24
(2,23)	1:D:4:U:H5	1:B:4:U:H3	14	0.24
(2,23)	1:D:4:U:H5	1:C:4:U:H3	14	0.24
(2,23)	1:D:4:U:H5	1:D:4:U:H3	14	0.24
(2,18)	1:A:3:G:H1	1:A:4:U:H3	3	0.24
(2,18)	1:A:3:G:H1	1:B:4:U:H3	3	0.24
(2,18)	1:A:3:G:H1	1:C:4:U:H3	3	0.24
(2,18)	1:A:3:G:H1	1:D:4:U:H3	3	0.24
(2,18)	1:B:3:G:H1	1:A:4:U:H3	3	0.24
(2,18)	1:B:3:G:H1	1:B:4:U:H3	3	0.24
(2,18)	1:B:3:G:H1	1:C:4:U:H3	3	0.24
(2,18)	1:B:3:G:H1	1:D:4:U:H3	3	0.24
(2,18)	1:C:3:G:H1	1:A:4:U:H3	3	0.24
(2,18)	1:C:3:G:H1	1:B:4:U:H3	3	0.24
(2,18)	1:C:3:G:H1	1:C:4:U:H3	3	0.24
(2,18)	1:C:3:G:H1	1:D:4:U:H3	3	0.24
(2,18)	1:D:3:G:H1	1:A:4:U:H3	3	0.24
(2,18)	1:D:3:G:H1	1:B:4:U:H3	3	0.24
(2,18)	1:D:3:G:H1	1:C:4:U:H3	3	0.24
(2,18)	1:D:3:G:H1	1:D:4:U:H3	3	0.24
(2,18)	1:A:3:G:H1	1:A:4:U:H3	13	0.24
(2,18)	1:A:3:G:H1	1:B:4:U:H3	13	0.24
(2,18)	1:A:3:G:H1	1:C:4:U:H3	13	0.24
(2,18)	1:A:3:G:H1	1:D:4:U:H3	13	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,18)	1:B:3:G:H1	1:A:4:U:H3	13	0.24
(2,18)	1:B:3:G:H1	1:B:4:U:H3	13	0.24
(2,18)	1:B:3:G:H1	1:C:4:U:H3	13	0.24
(2,18)	1:B:3:G:H1	1:D:4:U:H3	13	0.24
(2,18)	1:C:3:G:H1	1:A:4:U:H3	13	0.24
(2,18)	1:C:3:G:H1	1:B:4:U:H3	13	0.24
(2,18)	1:C:3:G:H1	1:C:4:U:H3	13	0.24
(2,18)	1:C:3:G:H1	1:D:4:U:H3	13	0.24
(2,18)	1:D:3:G:H1	1:A:4:U:H3	13	0.24
(2,18)	1:D:3:G:H1	1:B:4:U:H3	13	0.24
(2,18)	1:D:3:G:H1	1:C:4:U:H3	13	0.24
(2,18)	1:D:3:G:H1	1:D:4:U:H3	13	0.24
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	9	0.24
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	9	0.24
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	9	0.24
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	9	0.24
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	9	0.24
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	9	0.24
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	9	0.24
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	9	0.24
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	9	0.24
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	9	0.24
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	9	0.24
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	9	0.24
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	9	0.24
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	9	0.24
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	9	0.24
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	9	0.24
(1,73)	1:A:3:G:H2'	1:A:4:U:H5''	9	0.24
(1,73)	1:A:3:G:H2'	1:B:4:U:H5''	9	0.24
(1,73)	1:A:3:G:H2'	1:C:4:U:H5''	9	0.24
(1,73)	1:A:3:G:H2'	1:D:4:U:H5''	9	0.24
(1,73)	1:B:3:G:H2'	1:A:4:U:H5''	9	0.24
(1,73)	1:B:3:G:H2'	1:B:4:U:H5''	9	0.24
(1,73)	1:B:3:G:H2'	1:C:4:U:H5''	9	0.24
(1,73)	1:B:3:G:H2'	1:D:4:U:H5''	9	0.24
(1,73)	1:C:3:G:H2'	1:A:4:U:H5''	9	0.24
(1,73)	1:C:3:G:H2'	1:B:4:U:H5''	9	0.24
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	9	0.24
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	9	0.24
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	9	0.24
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	9	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	9	0.24
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	9	0.24
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	12	0.24
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	12	0.24
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	12	0.24
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	12	0.24
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	12	0.24
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	12	0.24
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	12	0.24
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	12	0.24
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	12	0.24
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	12	0.24
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	12	0.24
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	12	0.24
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	12	0.24
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	12	0.24
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	12	0.24
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	12	0.24
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	12	0.24
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	12	0.24
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	12	0.24
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	12	0.24
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	12	0.24
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	12	0.24
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	12	0.24
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	12	0.24
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	12	0.24
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	12	0.24
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	12	0.24
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	12	0.24
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	12	0.24
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	12	0.24
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	12	0.24
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	12	0.24
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	12	0.24
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	12	0.24
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	12	0.24
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	12	0.24
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	12	0.24
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	12	0.24
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	12	0.24
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	12	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	12	0.24
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	12	0.24
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	12	0.24
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	12	0.24
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	12	0.24
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	12	0.24
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	12	0.24
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	12	0.24
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	12	0.24
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	12	0.24
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	12	0.24
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	12	0.24
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	12	0.24
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	12	0.24
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	12	0.24
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	12	0.24
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	12	0.24
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	12	0.24
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	12	0.24
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	12	0.24
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	12	0.24
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	12	0.24
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	12	0.24
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	12	0.24
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	3	0.23
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	3	0.23
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	3	0.23
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	3	0.23
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	3	0.23
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	3	0.23
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	3	0.23
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	3	0.23
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	3	0.23
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	3	0.23
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	3	0.23
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	3	0.23
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	3	0.23
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	3	0.23
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	3	0.23
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	3	0.23
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	3	0.23
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	3	0.23
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	3	0.23
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	3	0.23
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	3	0.23
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	3	0.23
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	3	0.23
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	3	0.23
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	3	0.23
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	3	0.23
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	3	0.23
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	3	0.23
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	3	0.23
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	3	0.23
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	3	0.23
(2,6)	1:A:2:G:H8	1:A:2:G:H21	2	0.23
(2,6)	1:A:2:G:H8	1:B:2:G:H21	2	0.23
(2,6)	1:A:2:G:H8	1:C:2:G:H21	2	0.23
(2,6)	1:A:2:G:H8	1:D:2:G:H21	2	0.23
(2,6)	1:B:2:G:H8	1:A:2:G:H21	2	0.23
(2,6)	1:B:2:G:H8	1:B:2:G:H21	2	0.23
(2,6)	1:B:2:G:H8	1:C:2:G:H21	2	0.23
(2,6)	1:B:2:G:H8	1:D:2:G:H21	2	0.23
(2,6)	1:C:2:G:H8	1:A:2:G:H21	2	0.23
(2,6)	1:C:2:G:H8	1:B:2:G:H21	2	0.23
(2,6)	1:C:2:G:H8	1:C:2:G:H21	2	0.23
(2,6)	1:C:2:G:H8	1:D:2:G:H21	2	0.23
(2,6)	1:D:2:G:H8	1:A:2:G:H21	2	0.23
(2,6)	1:D:2:G:H8	1:B:2:G:H21	2	0.23
(2,6)	1:D:2:G:H8	1:C:2:G:H21	2	0.23
(2,6)	1:D:2:G:H8	1:D:2:G:H21	2	0.23
(2,23)	1:A:4:U:H5	1:A:4:U:H3	5	0.23
(2,23)	1:A:4:U:H5	1:B:4:U:H3	5	0.23
(2,23)	1:A:4:U:H5	1:C:4:U:H3	5	0.23
(2,23)	1:A:4:U:H5	1:D:4:U:H3	5	0.23
(2,23)	1:B:4:U:H5	1:A:4:U:H3	5	0.23
(2,23)	1:B:4:U:H5	1:B:4:U:H3	5	0.23
(2,23)	1:B:4:U:H5	1:C:4:U:H3	5	0.23
(2,23)	1:B:4:U:H5	1:D:4:U:H3	5	0.23
(2,23)	1:C:4:U:H5	1:A:4:U:H3	5	0.23
(2,23)	1:C:4:U:H5	1:B:4:U:H3	5	0.23
(2,23)	1:C:4:U:H5	1:C:4:U:H3	5	0.23
(2,23)	1:C:4:U:H5	1:D:4:U:H3	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,23)	1:D:4:U:H5	1:A:4:U:H3	5	0.23
(2,23)	1:D:4:U:H5	1:B:4:U:H3	5	0.23
(2,23)	1:D:4:U:H5	1:C:4:U:H3	5	0.23
(2,23)	1:D:4:U:H5	1:D:4:U:H3	5	0.23
(2,18)	1:A:3:G:H1	1:A:4:U:H3	14	0.23
(2,18)	1:A:3:G:H1	1:B:4:U:H3	14	0.23
(2,18)	1:A:3:G:H1	1:C:4:U:H3	14	0.23
(2,18)	1:A:3:G:H1	1:D:4:U:H3	14	0.23
(2,18)	1:B:3:G:H1	1:A:4:U:H3	14	0.23
(2,18)	1:B:3:G:H1	1:B:4:U:H3	14	0.23
(2,18)	1:B:3:G:H1	1:C:4:U:H3	14	0.23
(2,18)	1:B:3:G:H1	1:D:4:U:H3	14	0.23
(2,18)	1:C:3:G:H1	1:A:4:U:H3	14	0.23
(2,18)	1:C:3:G:H1	1:B:4:U:H3	14	0.23
(2,18)	1:C:3:G:H1	1:C:4:U:H3	14	0.23
(2,18)	1:C:3:G:H1	1:D:4:U:H3	14	0.23
(2,18)	1:D:3:G:H1	1:A:4:U:H3	14	0.23
(2,18)	1:D:3:G:H1	1:B:4:U:H3	14	0.23
(2,18)	1:D:3:G:H1	1:C:4:U:H3	14	0.23
(2,18)	1:D:3:G:H1	1:D:4:U:H3	14	0.23
(2,1)	1:A:1:U:H5	1:A:1:U:H3	14	0.23
(2,1)	1:A:1:U:H5	1:B:1:U:H3	14	0.23
(2,1)	1:A:1:U:H5	1:C:1:U:H3	14	0.23
(2,1)	1:A:1:U:H5	1:D:1:U:H3	14	0.23
(2,1)	1:B:1:U:H5	1:A:1:U:H3	14	0.23
(2,1)	1:B:1:U:H5	1:B:1:U:H3	14	0.23
(2,1)	1:B:1:U:H5	1:C:1:U:H3	14	0.23
(2,1)	1:B:1:U:H5	1:D:1:U:H3	14	0.23
(2,1)	1:C:1:U:H5	1:A:1:U:H3	14	0.23
(2,1)	1:C:1:U:H5	1:B:1:U:H3	14	0.23
(2,1)	1:C:1:U:H5	1:C:1:U:H3	14	0.23
(2,1)	1:C:1:U:H5	1:D:1:U:H3	14	0.23
(2,1)	1:D:1:U:H5	1:A:1:U:H3	14	0.23
(2,1)	1:D:1:U:H5	1:B:1:U:H3	14	0.23
(2,1)	1:D:1:U:H5	1:C:1:U:H3	14	0.23
(2,1)	1:D:1:U:H5	1:D:1:U:H3	14	0.23
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	15	0.22
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	15	0.22
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	15	0.22
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	15	0.22
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	15	0.22
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	15	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	15	0.22
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	15	0.22
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	15	0.22
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	15	0.22
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	15	0.22
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	15	0.22
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	15	0.22
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	15	0.22
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	15	0.22
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	15	0.22
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	15	0.22
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	15	0.22
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	15	0.22
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	15	0.22
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	15	0.22
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	15	0.22
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	15	0.22
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	15	0.22
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	15	0.22
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	15	0.22
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	15	0.22
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	15	0.22
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	15	0.22
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	15	0.22
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	15	0.22
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	15	0.22
(2,6)	1:A:2:G:H8	1:A:2:G:H21	4	0.22
(2,6)	1:A:2:G:H8	1:B:2:G:H21	4	0.22
(2,6)	1:A:2:G:H8	1:C:2:G:H21	4	0.22
(2,6)	1:A:2:G:H8	1:D:2:G:H21	4	0.22
(2,6)	1:B:2:G:H8	1:A:2:G:H21	4	0.22
(2,6)	1:B:2:G:H8	1:B:2:G:H21	4	0.22
(2,6)	1:B:2:G:H8	1:C:2:G:H21	4	0.22
(2,6)	1:B:2:G:H8	1:D:2:G:H21	4	0.22
(2,6)	1:C:2:G:H8	1:A:2:G:H21	4	0.22
(2,6)	1:C:2:G:H8	1:B:2:G:H21	4	0.22
(2,6)	1:C:2:G:H8	1:C:2:G:H21	4	0.22
(2,6)	1:C:2:G:H8	1:D:2:G:H21	4	0.22
(2,6)	1:D:2:G:H8	1:A:2:G:H21	4	0.22
(2,6)	1:D:2:G:H8	1:B:2:G:H21	4	0.22
(2,6)	1:D:2:G:H8	1:C:2:G:H21	4	0.22
(2,6)	1:D:2:G:H8	1:D:2:G:H21	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,6)	1:A:2:G:H8	1:A:2:G:H21	5	0.22
(2,6)	1:A:2:G:H8	1:B:2:G:H21	5	0.22
(2,6)	1:A:2:G:H8	1:C:2:G:H21	5	0.22
(2,6)	1:A:2:G:H8	1:D:2:G:H21	5	0.22
(2,6)	1:B:2:G:H8	1:A:2:G:H21	5	0.22
(2,6)	1:B:2:G:H8	1:B:2:G:H21	5	0.22
(2,6)	1:B:2:G:H8	1:C:2:G:H21	5	0.22
(2,6)	1:B:2:G:H8	1:D:2:G:H21	5	0.22
(2,6)	1:C:2:G:H8	1:A:2:G:H21	5	0.22
(2,6)	1:C:2:G:H8	1:B:2:G:H21	5	0.22
(2,6)	1:C:2:G:H8	1:C:2:G:H21	5	0.22
(2,6)	1:C:2:G:H8	1:D:2:G:H21	5	0.22
(2,6)	1:D:2:G:H8	1:A:2:G:H21	5	0.22
(2,6)	1:D:2:G:H8	1:B:2:G:H21	5	0.22
(2,6)	1:D:2:G:H8	1:C:2:G:H21	5	0.22
(2,6)	1:D:2:G:H8	1:D:2:G:H21	5	0.22
(2,6)	1:A:2:G:H8	1:A:2:G:H21	11	0.22
(2,6)	1:A:2:G:H8	1:B:2:G:H21	11	0.22
(2,6)	1:A:2:G:H8	1:C:2:G:H21	11	0.22
(2,6)	1:A:2:G:H8	1:D:2:G:H21	11	0.22
(2,6)	1:B:2:G:H8	1:A:2:G:H21	11	0.22
(2,6)	1:B:2:G:H8	1:B:2:G:H21	11	0.22
(2,6)	1:B:2:G:H8	1:C:2:G:H21	11	0.22
(2,6)	1:B:2:G:H8	1:D:2:G:H21	11	0.22
(2,6)	1:C:2:G:H8	1:A:2:G:H21	11	0.22
(2,6)	1:C:2:G:H8	1:B:2:G:H21	11	0.22
(2,6)	1:C:2:G:H8	1:C:2:G:H21	11	0.22
(2,6)	1:C:2:G:H8	1:D:2:G:H21	11	0.22
(2,6)	1:D:2:G:H8	1:A:2:G:H21	11	0.22
(2,6)	1:D:2:G:H8	1:B:2:G:H21	11	0.22
(2,6)	1:D:2:G:H8	1:C:2:G:H21	11	0.22
(2,6)	1:D:2:G:H8	1:D:2:G:H21	11	0.22
(2,27)	1:A:4:U:H3	1:A:5:G:H1	7	0.22
(2,27)	1:A:4:U:H3	1:B:5:G:H1	7	0.22
(2,27)	1:A:4:U:H3	1:C:5:G:H1	7	0.22
(2,27)	1:A:4:U:H3	1:D:5:G:H1	7	0.22
(2,27)	1:B:4:U:H3	1:A:5:G:H1	7	0.22
(2,27)	1:B:4:U:H3	1:B:5:G:H1	7	0.22
(2,27)	1:B:4:U:H3	1:C:5:G:H1	7	0.22
(2,27)	1:B:4:U:H3	1:D:5:G:H1	7	0.22
(2,27)	1:C:4:U:H3	1:A:5:G:H1	7	0.22
(2,27)	1:C:4:U:H3	1:B:5:G:H1	7	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,27)	1:C:4:U:H3	1:C:5:G:H1	7	0.22
(2,27)	1:C:4:U:H3	1:D:5:G:H1	7	0.22
(2,27)	1:D:4:U:H3	1:A:5:G:H1	7	0.22
(2,27)	1:D:4:U:H3	1:B:5:G:H1	7	0.22
(2,27)	1:D:4:U:H3	1:C:5:G:H1	7	0.22
(2,27)	1:D:4:U:H3	1:D:5:G:H1	7	0.22
(2,23)	1:A:4:U:H5	1:A:4:U:H3	9	0.22
(2,23)	1:A:4:U:H5	1:B:4:U:H3	9	0.22
(2,23)	1:A:4:U:H5	1:C:4:U:H3	9	0.22
(2,23)	1:A:4:U:H5	1:D:4:U:H3	9	0.22
(2,23)	1:B:4:U:H5	1:A:4:U:H3	9	0.22
(2,23)	1:B:4:U:H5	1:B:4:U:H3	9	0.22
(2,23)	1:B:4:U:H5	1:C:4:U:H3	9	0.22
(2,23)	1:B:4:U:H5	1:D:4:U:H3	9	0.22
(2,23)	1:C:4:U:H5	1:A:4:U:H3	9	0.22
(2,23)	1:C:4:U:H5	1:B:4:U:H3	9	0.22
(2,23)	1:C:4:U:H5	1:C:4:U:H3	9	0.22
(2,23)	1:C:4:U:H5	1:D:4:U:H3	9	0.22
(2,23)	1:D:4:U:H5	1:A:4:U:H3	9	0.22
(2,23)	1:D:4:U:H5	1:B:4:U:H3	9	0.22
(2,23)	1:D:4:U:H5	1:C:4:U:H3	9	0.22
(2,23)	1:D:4:U:H5	1:D:4:U:H3	9	0.22
(2,23)	1:A:4:U:H5	1:A:4:U:H3	10	0.22
(2,23)	1:A:4:U:H5	1:B:4:U:H3	10	0.22
(2,23)	1:A:4:U:H5	1:C:4:U:H3	10	0.22
(2,23)	1:A:4:U:H5	1:D:4:U:H3	10	0.22
(2,23)	1:B:4:U:H5	1:A:4:U:H3	10	0.22
(2,23)	1:B:4:U:H5	1:B:4:U:H3	10	0.22
(2,23)	1:B:4:U:H5	1:C:4:U:H3	10	0.22
(2,23)	1:B:4:U:H5	1:D:4:U:H3	10	0.22
(2,23)	1:C:4:U:H5	1:A:4:U:H3	10	0.22
(2,23)	1:C:4:U:H5	1:B:4:U:H3	10	0.22
(2,23)	1:C:4:U:H5	1:C:4:U:H3	10	0.22
(2,23)	1:C:4:U:H5	1:D:4:U:H3	10	0.22
(2,23)	1:D:4:U:H5	1:A:4:U:H3	10	0.22
(2,23)	1:D:4:U:H5	1:B:4:U:H3	10	0.22
(2,23)	1:D:4:U:H5	1:C:4:U:H3	10	0.22
(2,23)	1:D:4:U:H5	1:D:4:U:H3	10	0.22
(2,23)	1:A:4:U:H5	1:A:4:U:H3	12	0.22
(2,23)	1:A:4:U:H5	1:B:4:U:H3	12	0.22
(2,23)	1:A:4:U:H5	1:C:4:U:H3	12	0.22
(2,23)	1:A:4:U:H5	1:D:4:U:H3	12	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,23)	1:B:4:U:H5	1:A:4:U:H3	12	0.22
(2,23)	1:B:4:U:H5	1:B:4:U:H3	12	0.22
(2,23)	1:B:4:U:H5	1:C:4:U:H3	12	0.22
(2,23)	1:B:4:U:H5	1:D:4:U:H3	12	0.22
(2,23)	1:C:4:U:H5	1:A:4:U:H3	12	0.22
(2,23)	1:C:4:U:H5	1:B:4:U:H3	12	0.22
(2,23)	1:C:4:U:H5	1:C:4:U:H3	12	0.22
(2,23)	1:C:4:U:H5	1:D:4:U:H3	12	0.22
(2,23)	1:D:4:U:H5	1:A:4:U:H3	12	0.22
(2,23)	1:D:4:U:H5	1:B:4:U:H3	12	0.22
(2,23)	1:D:4:U:H5	1:C:4:U:H3	12	0.22
(2,23)	1:D:4:U:H5	1:D:4:U:H3	12	0.22
(2,18)	1:A:3:G:H1	1:A:4:U:H3	4	0.22
(2,18)	1:A:3:G:H1	1:B:4:U:H3	4	0.22
(2,18)	1:A:3:G:H1	1:C:4:U:H3	4	0.22
(2,18)	1:A:3:G:H1	1:D:4:U:H3	4	0.22
(2,18)	1:B:3:G:H1	1:A:4:U:H3	4	0.22
(2,18)	1:B:3:G:H1	1:B:4:U:H3	4	0.22
(2,18)	1:B:3:G:H1	1:C:4:U:H3	4	0.22
(2,18)	1:B:3:G:H1	1:D:4:U:H3	4	0.22
(2,18)	1:C:3:G:H1	1:A:4:U:H3	4	0.22
(2,18)	1:C:3:G:H1	1:B:4:U:H3	4	0.22
(2,18)	1:C:3:G:H1	1:C:4:U:H3	4	0.22
(2,18)	1:C:3:G:H1	1:D:4:U:H3	4	0.22
(2,18)	1:D:3:G:H1	1:A:4:U:H3	4	0.22
(2,18)	1:D:3:G:H1	1:B:4:U:H3	4	0.22
(2,18)	1:D:3:G:H1	1:C:4:U:H3	4	0.22
(2,18)	1:D:3:G:H1	1:D:4:U:H3	4	0.22
(2,13)	1:A:2:G:H22	1:A:1:U:H5	7	0.22
(2,13)	1:A:2:G:H22	1:B:1:U:H5	7	0.22
(2,13)	1:A:2:G:H22	1:C:1:U:H5	7	0.22
(2,13)	1:A:2:G:H22	1:D:1:U:H5	7	0.22
(2,13)	1:B:2:G:H22	1:A:1:U:H5	7	0.22
(2,13)	1:B:2:G:H22	1:B:1:U:H5	7	0.22
(2,13)	1:B:2:G:H22	1:C:1:U:H5	7	0.22
(2,13)	1:B:2:G:H22	1:D:1:U:H5	7	0.22
(2,13)	1:C:2:G:H22	1:A:1:U:H5	7	0.22
(2,13)	1:C:2:G:H22	1:B:1:U:H5	7	0.22
(2,13)	1:C:2:G:H22	1:C:1:U:H5	7	0.22
(2,13)	1:C:2:G:H22	1:D:1:U:H5	7	0.22
(2,13)	1:D:2:G:H22	1:A:1:U:H5	7	0.22
(2,13)	1:D:2:G:H22	1:B:1:U:H5	7	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,13)	1:D:2:G:H22	1:C:1:U:H5	7	0.22
(2,13)	1:D:2:G:H22	1:D:1:U:H5	7	0.22
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	2	0.22
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	2	0.22
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	2	0.22
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	2	0.22
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	2	0.22
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	2	0.22
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	2	0.22
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	2	0.22
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	2	0.22
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	2	0.22
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	2	0.22
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	2	0.22
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	2	0.22
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	2	0.22
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	2	0.22
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	2	0.22
(1,73)	1:A:3:G:H2'	1:A:4:U:H5''	2	0.22
(1,73)	1:A:3:G:H2'	1:B:4:U:H5''	2	0.22
(1,73)	1:A:3:G:H2'	1:C:4:U:H5''	2	0.22
(1,73)	1:A:3:G:H2'	1:D:4:U:H5''	2	0.22
(1,73)	1:B:3:G:H2'	1:A:4:U:H5''	2	0.22
(1,73)	1:B:3:G:H2'	1:B:4:U:H5''	2	0.22
(1,73)	1:B:3:G:H2'	1:C:4:U:H5''	2	0.22
(1,73)	1:B:3:G:H2'	1:D:4:U:H5''	2	0.22
(1,73)	1:C:3:G:H2'	1:A:4:U:H5''	2	0.22
(1,73)	1:C:3:G:H2'	1:B:4:U:H5''	2	0.22
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	2	0.22
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	2	0.22
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	2	0.22
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	2	0.22
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	2	0.22
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	2	0.22
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	12	0.22
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	12	0.22
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	12	0.22
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	12	0.22
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	12	0.22
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	12	0.22
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	12	0.22
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	12	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	12	0.22
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	12	0.22
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	12	0.22
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	12	0.22
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	12	0.22
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	12	0.22
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	12	0.22
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	12	0.22
(1,73)	1:A:3:G:H2'	1:A:4:U:H5''	12	0.22
(1,73)	1:A:3:G:H2'	1:B:4:U:H5''	12	0.22
(1,73)	1:A:3:G:H2'	1:C:4:U:H5''	12	0.22
(1,73)	1:A:3:G:H2'	1:D:4:U:H5''	12	0.22
(1,73)	1:B:3:G:H2'	1:A:4:U:H5''	12	0.22
(1,73)	1:B:3:G:H2'	1:B:4:U:H5''	12	0.22
(1,73)	1:B:3:G:H2'	1:C:4:U:H5''	12	0.22
(1,73)	1:B:3:G:H2'	1:D:4:U:H5''	12	0.22
(1,73)	1:C:3:G:H2'	1:A:4:U:H5''	12	0.22
(1,73)	1:C:3:G:H2'	1:B:4:U:H5''	12	0.22
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	12	0.22
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	12	0.22
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	12	0.22
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	12	0.22
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	12	0.22
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	12	0.22
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	7	0.21
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	7	0.21
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	7	0.21
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	7	0.21
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	7	0.21
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	7	0.21
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	7	0.21
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	7	0.21
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	7	0.21
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	7	0.21
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	7	0.21
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	7	0.21
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	7	0.21
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	7	0.21
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	7	0.21
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	7	0.21
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	7	0.21
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	7	0.21
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	7	0.21
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	7	0.21
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	7	0.21
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	7	0.21
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	7	0.21
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	7	0.21
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	7	0.21
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	7	0.21
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	7	0.21
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	7	0.21
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	7	0.21
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	7	0.21
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	7	0.21
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	11	0.21
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	11	0.21
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	11	0.21
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	11	0.21
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	11	0.21
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	11	0.21
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	11	0.21
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	11	0.21
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	11	0.21
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	11	0.21
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	11	0.21
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	11	0.21
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	11	0.21
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	11	0.21
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	11	0.21
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	11	0.21
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	11	0.21
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	11	0.21
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	11	0.21
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	11	0.21
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	11	0.21
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	11	0.21
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	11	0.21
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	11	0.21
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	11	0.21
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	11	0.21
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	11	0.21
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	11	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	11	0.21
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	11	0.21
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	11	0.21
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	11	0.21
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	12	0.21
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	12	0.21
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	12	0.21
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	12	0.21
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	12	0.21
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	12	0.21
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	12	0.21
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	12	0.21
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	12	0.21
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	12	0.21
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	12	0.21
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	12	0.21
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	12	0.21
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	12	0.21
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	12	0.21
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	12	0.21
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	12	0.21
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	12	0.21
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	12	0.21
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	12	0.21
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	12	0.21
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	12	0.21
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	12	0.21
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	12	0.21
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	12	0.21
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	12	0.21
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	12	0.21
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	12	0.21
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	12	0.21
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	12	0.21
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	12	0.21
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	12	0.21
(2,6)	1:A:2:G:H8	1:A:2:G:H21	1	0.21
(2,6)	1:A:2:G:H8	1:B:2:G:H21	1	0.21
(2,6)	1:A:2:G:H8	1:C:2:G:H21	1	0.21
(2,6)	1:A:2:G:H8	1:D:2:G:H21	1	0.21
(2,6)	1:B:2:G:H8	1:A:2:G:H21	1	0.21
(2,6)	1:B:2:G:H8	1:B:2:G:H21	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,6)	1:B:2:G:H8	1:C:2:G:H21	1	0.21
(2,6)	1:B:2:G:H8	1:D:2:G:H21	1	0.21
(2,6)	1:C:2:G:H8	1:A:2:G:H21	1	0.21
(2,6)	1:C:2:G:H8	1:B:2:G:H21	1	0.21
(2,6)	1:C:2:G:H8	1:C:2:G:H21	1	0.21
(2,6)	1:C:2:G:H8	1:D:2:G:H21	1	0.21
(2,6)	1:D:2:G:H8	1:A:2:G:H21	1	0.21
(2,6)	1:D:2:G:H8	1:B:2:G:H21	1	0.21
(2,6)	1:D:2:G:H8	1:C:2:G:H21	1	0.21
(2,6)	1:D:2:G:H8	1:D:2:G:H21	1	0.21
(2,18)	1:A:3:G:H1	1:A:4:U:H3	9	0.21
(2,18)	1:A:3:G:H1	1:B:4:U:H3	9	0.21
(2,18)	1:A:3:G:H1	1:C:4:U:H3	9	0.21
(2,18)	1:A:3:G:H1	1:D:4:U:H3	9	0.21
(2,18)	1:B:3:G:H1	1:A:4:U:H3	9	0.21
(2,18)	1:B:3:G:H1	1:B:4:U:H3	9	0.21
(2,18)	1:B:3:G:H1	1:C:4:U:H3	9	0.21
(2,18)	1:B:3:G:H1	1:D:4:U:H3	9	0.21
(2,18)	1:C:3:G:H1	1:A:4:U:H3	9	0.21
(2,18)	1:C:3:G:H1	1:B:4:U:H3	9	0.21
(2,18)	1:C:3:G:H1	1:C:4:U:H3	9	0.21
(2,18)	1:C:3:G:H1	1:D:4:U:H3	9	0.21
(2,18)	1:D:3:G:H1	1:A:4:U:H3	9	0.21
(2,18)	1:D:3:G:H1	1:B:4:U:H3	9	0.21
(2,18)	1:D:3:G:H1	1:C:4:U:H3	9	0.21
(2,18)	1:D:3:G:H1	1:D:4:U:H3	9	0.21
(2,18)	1:A:3:G:H1	1:A:4:U:H3	10	0.21
(2,18)	1:A:3:G:H1	1:B:4:U:H3	10	0.21
(2,18)	1:A:3:G:H1	1:C:4:U:H3	10	0.21
(2,18)	1:A:3:G:H1	1:D:4:U:H3	10	0.21
(2,18)	1:B:3:G:H1	1:A:4:U:H3	10	0.21
(2,18)	1:B:3:G:H1	1:B:4:U:H3	10	0.21
(2,18)	1:B:3:G:H1	1:C:4:U:H3	10	0.21
(2,18)	1:B:3:G:H1	1:D:4:U:H3	10	0.21
(2,18)	1:C:3:G:H1	1:A:4:U:H3	10	0.21
(2,18)	1:C:3:G:H1	1:B:4:U:H3	10	0.21
(2,18)	1:C:3:G:H1	1:C:4:U:H3	10	0.21
(2,18)	1:C:3:G:H1	1:D:4:U:H3	10	0.21
(2,18)	1:D:3:G:H1	1:A:4:U:H3	10	0.21
(2,18)	1:D:3:G:H1	1:B:4:U:H3	10	0.21
(2,18)	1:D:3:G:H1	1:C:4:U:H3	10	0.21
(2,18)	1:D:3:G:H1	1:D:4:U:H3	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	5	0.21
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	5	0.21
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	5	0.21
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	5	0.21
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	5	0.21
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	5	0.21
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	5	0.21
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	5	0.21
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	5	0.21
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	5	0.21
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	5	0.21
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	5	0.21
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	5	0.21
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	5	0.21
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	5	0.21
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	5	0.21
(1,73)	1:A:3:G:H2''	1:A:4:U:H5''	5	0.21
(1,73)	1:A:3:G:H2''	1:B:4:U:H5''	5	0.21
(1,73)	1:A:3:G:H2''	1:C:4:U:H5''	5	0.21
(1,73)	1:A:3:G:H2''	1:D:4:U:H5''	5	0.21
(1,73)	1:B:3:G:H2''	1:A:4:U:H5''	5	0.21
(1,73)	1:B:3:G:H2''	1:B:4:U:H5''	5	0.21
(1,73)	1:B:3:G:H2''	1:C:4:U:H5''	5	0.21
(1,73)	1:B:3:G:H2''	1:D:4:U:H5''	5	0.21
(1,73)	1:C:3:G:H2''	1:A:4:U:H5''	5	0.21
(1,73)	1:C:3:G:H2''	1:B:4:U:H5''	5	0.21
(1,73)	1:C:3:G:H2''	1:C:4:U:H5''	5	0.21
(1,73)	1:C:3:G:H2''	1:D:4:U:H5''	5	0.21
(1,73)	1:D:3:G:H2''	1:A:4:U:H5''	5	0.21
(1,73)	1:D:3:G:H2''	1:B:4:U:H5''	5	0.21
(1,73)	1:D:3:G:H2''	1:C:4:U:H5''	5	0.21
(1,73)	1:D:3:G:H2''	1:D:4:U:H5''	5	0.21
(1,10)	1:A:3:G:H8	1:A:2:G:H1'	8	0.21
(1,10)	1:A:3:G:H8	1:B:2:G:H1'	8	0.21
(1,10)	1:A:3:G:H8	1:C:2:G:H1'	8	0.21
(1,10)	1:A:3:G:H8	1:D:2:G:H1'	8	0.21
(1,10)	1:B:3:G:H8	1:A:2:G:H1'	8	0.21
(1,10)	1:B:3:G:H8	1:B:2:G:H1'	8	0.21
(1,10)	1:B:3:G:H8	1:C:2:G:H1'	8	0.21
(1,10)	1:B:3:G:H8	1:D:2:G:H1'	8	0.21
(1,10)	1:C:3:G:H8	1:A:2:G:H1'	8	0.21
(1,10)	1:C:3:G:H8	1:B:2:G:H1'	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,10)	1:C:3:G:H8	1:C:2:G:H1'	8	0.21
(1,10)	1:C:3:G:H8	1:D:2:G:H1'	8	0.21
(1,10)	1:D:3:G:H8	1:A:2:G:H1'	8	0.21
(1,10)	1:D:3:G:H8	1:B:2:G:H1'	8	0.21
(1,10)	1:D:3:G:H8	1:C:2:G:H1'	8	0.21
(1,10)	1:D:3:G:H8	1:D:2:G:H1'	8	0.21
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	5	0.2
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	5	0.2
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	5	0.2
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	5	0.2
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	5	0.2
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	5	0.2
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	5	0.2
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	5	0.2
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	5	0.2
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	5	0.2
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	5	0.2
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	5	0.2
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	5	0.2
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	5	0.2
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	5	0.2
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	5	0.2
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	5	0.2
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	5	0.2
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	5	0.2
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	5	0.2
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	5	0.2
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	5	0.2
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	5	0.2
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	5	0.2
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	5	0.2
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	5	0.2
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	5	0.2
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	5	0.2
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	5	0.2
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	5	0.2
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	5	0.2
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	5	0.2
(2,23)	1:A:4:U:H5	1:A:4:U:H3	11	0.2
(2,23)	1:A:4:U:H5	1:B:4:U:H3	11	0.2
(2,23)	1:A:4:U:H5	1:C:4:U:H3	11	0.2
(2,23)	1:A:4:U:H5	1:D:4:U:H3	11	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,23)	1:B:4:U:H5	1:A:4:U:H3	11	0.2
(2,23)	1:B:4:U:H5	1:B:4:U:H3	11	0.2
(2,23)	1:B:4:U:H5	1:C:4:U:H3	11	0.2
(2,23)	1:B:4:U:H5	1:D:4:U:H3	11	0.2
(2,23)	1:C:4:U:H5	1:A:4:U:H3	11	0.2
(2,23)	1:C:4:U:H5	1:B:4:U:H3	11	0.2
(2,23)	1:C:4:U:H5	1:C:4:U:H3	11	0.2
(2,23)	1:C:4:U:H5	1:D:4:U:H3	11	0.2
(2,23)	1:D:4:U:H5	1:A:4:U:H3	11	0.2
(2,23)	1:D:4:U:H5	1:B:4:U:H3	11	0.2
(2,23)	1:D:4:U:H5	1:C:4:U:H3	11	0.2
(2,23)	1:D:4:U:H5	1:D:4:U:H3	11	0.2
(2,18)	1:A:3:G:H1	1:A:4:U:H3	12	0.2
(2,18)	1:A:3:G:H1	1:B:4:U:H3	12	0.2
(2,18)	1:A:3:G:H1	1:C:4:U:H3	12	0.2
(2,18)	1:A:3:G:H1	1:D:4:U:H3	12	0.2
(2,18)	1:B:3:G:H1	1:A:4:U:H3	12	0.2
(2,18)	1:B:3:G:H1	1:B:4:U:H3	12	0.2
(2,18)	1:B:3:G:H1	1:C:4:U:H3	12	0.2
(2,18)	1:B:3:G:H1	1:D:4:U:H3	12	0.2
(2,18)	1:C:3:G:H1	1:A:4:U:H3	12	0.2
(2,18)	1:C:3:G:H1	1:B:4:U:H3	12	0.2
(2,18)	1:C:3:G:H1	1:C:4:U:H3	12	0.2
(2,18)	1:C:3:G:H1	1:D:4:U:H3	12	0.2
(2,18)	1:D:3:G:H1	1:A:4:U:H3	12	0.2
(2,18)	1:D:3:G:H1	1:B:4:U:H3	12	0.2
(2,18)	1:D:3:G:H1	1:C:4:U:H3	12	0.2
(2,18)	1:D:3:G:H1	1:D:4:U:H3	12	0.2
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	1	0.2
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	1	0.2
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	1	0.2
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	1	0.2
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	1	0.2
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	1	0.2
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	1	0.2
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	1	0.2
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	1	0.2
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	1	0.2
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	1	0.2
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	1	0.2
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	1	0.2
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	1	0.2
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	1	0.2
(1,73)	1:A:3:G:H2'	1:A:4:U:H5''	1	0.2
(1,73)	1:A:3:G:H2'	1:B:4:U:H5''	1	0.2
(1,73)	1:A:3:G:H2'	1:C:4:U:H5''	1	0.2
(1,73)	1:A:3:G:H2'	1:D:4:U:H5''	1	0.2
(1,73)	1:B:3:G:H2'	1:A:4:U:H5''	1	0.2
(1,73)	1:B:3:G:H2'	1:B:4:U:H5''	1	0.2
(1,73)	1:B:3:G:H2'	1:C:4:U:H5''	1	0.2
(1,73)	1:B:3:G:H2'	1:D:4:U:H5''	1	0.2
(1,73)	1:C:3:G:H2'	1:A:4:U:H5''	1	0.2
(1,73)	1:C:3:G:H2'	1:B:4:U:H5''	1	0.2
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	1	0.2
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	1	0.2
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	1	0.2
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	1	0.2
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	1	0.2
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	1	0.2
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	13	0.2
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	13	0.2
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	13	0.2
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	13	0.2
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	13	0.2
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	13	0.2
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	13	0.2
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	13	0.2
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	13	0.2
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	13	0.2
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	13	0.2
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	13	0.2
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	13	0.2
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	13	0.2
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	13	0.2
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	13	0.2
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	13	0.2
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	13	0.2
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	13	0.2
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	13	0.2
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	13	0.2
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	13	0.2
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	13	0.2
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	13	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	13	0.2
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	13	0.2
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	13	0.2
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	13	0.2
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	13	0.2
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	13	0.2
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	13	0.2
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	13	0.2
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	13	0.2
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	13	0.2
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	13	0.2
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	13	0.2
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	13	0.2
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	13	0.2
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	13	0.2
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	13	0.2
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	13	0.2
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	13	0.2
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	13	0.2
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	13	0.2
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	13	0.2
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	13	0.2
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	13	0.2
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	13	0.2
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	13	0.2
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	13	0.2
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	13	0.2
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	13	0.2
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	13	0.2
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	13	0.2
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	13	0.2
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	13	0.2
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	13	0.2
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	13	0.2
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	13	0.2
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	13	0.2
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	13	0.2
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	13	0.2
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	13	0.2
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	13	0.2
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	10	0.19
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	10	0.19
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	10	0.19
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	10	0.19
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	10	0.19
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	10	0.19
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	10	0.19
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	10	0.19
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	10	0.19
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	10	0.19
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	10	0.19
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	10	0.19
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	10	0.19
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	10	0.19
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	10	0.19
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	10	0.19
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	10	0.19
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	10	0.19
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	10	0.19
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	10	0.19
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	10	0.19
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	10	0.19
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	10	0.19
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	10	0.19
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	10	0.19
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	10	0.19
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	10	0.19
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	10	0.19
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	10	0.19
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	10	0.19
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	10	0.19
(2,27)	1:A:4:U:H3	1:A:5:G:H1	4	0.19
(2,27)	1:A:4:U:H3	1:B:5:G:H1	4	0.19
(2,27)	1:A:4:U:H3	1:C:5:G:H1	4	0.19
(2,27)	1:A:4:U:H3	1:D:5:G:H1	4	0.19
(2,27)	1:B:4:U:H3	1:A:5:G:H1	4	0.19
(2,27)	1:B:4:U:H3	1:B:5:G:H1	4	0.19
(2,27)	1:B:4:U:H3	1:C:5:G:H1	4	0.19
(2,27)	1:B:4:U:H3	1:D:5:G:H1	4	0.19
(2,27)	1:C:4:U:H3	1:A:5:G:H1	4	0.19
(2,27)	1:C:4:U:H3	1:B:5:G:H1	4	0.19
(2,27)	1:C:4:U:H3	1:C:5:G:H1	4	0.19
(2,27)	1:C:4:U:H3	1:D:5:G:H1	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,27)	1:D:4:U:H3	1:A:5:G:H1	4	0.19
(2,27)	1:D:4:U:H3	1:B:5:G:H1	4	0.19
(2,27)	1:D:4:U:H3	1:C:5:G:H1	4	0.19
(2,27)	1:D:4:U:H3	1:D:5:G:H1	4	0.19
(2,18)	1:A:3:G:H1	1:A:4:U:H3	5	0.19
(2,18)	1:A:3:G:H1	1:B:4:U:H3	5	0.19
(2,18)	1:A:3:G:H1	1:C:4:U:H3	5	0.19
(2,18)	1:A:3:G:H1	1:D:4:U:H3	5	0.19
(2,18)	1:B:3:G:H1	1:A:4:U:H3	5	0.19
(2,18)	1:B:3:G:H1	1:B:4:U:H3	5	0.19
(2,18)	1:B:3:G:H1	1:C:4:U:H3	5	0.19
(2,18)	1:B:3:G:H1	1:D:4:U:H3	5	0.19
(2,18)	1:C:3:G:H1	1:A:4:U:H3	5	0.19
(2,18)	1:C:3:G:H1	1:B:4:U:H3	5	0.19
(2,18)	1:C:3:G:H1	1:C:4:U:H3	5	0.19
(2,18)	1:C:3:G:H1	1:D:4:U:H3	5	0.19
(2,18)	1:D:3:G:H1	1:A:4:U:H3	5	0.19
(2,18)	1:D:3:G:H1	1:B:4:U:H3	5	0.19
(2,18)	1:D:3:G:H1	1:C:4:U:H3	5	0.19
(2,18)	1:D:3:G:H1	1:D:4:U:H3	5	0.19
(2,1)	1:A:1:U:H5	1:A:1:U:H3	1	0.19
(2,1)	1:A:1:U:H5	1:B:1:U:H3	1	0.19
(2,1)	1:A:1:U:H5	1:C:1:U:H3	1	0.19
(2,1)	1:A:1:U:H5	1:D:1:U:H3	1	0.19
(2,1)	1:B:1:U:H5	1:A:1:U:H3	1	0.19
(2,1)	1:B:1:U:H5	1:B:1:U:H3	1	0.19
(2,1)	1:B:1:U:H5	1:C:1:U:H3	1	0.19
(2,1)	1:B:1:U:H5	1:D:1:U:H3	1	0.19
(2,1)	1:C:1:U:H5	1:A:1:U:H3	1	0.19
(2,1)	1:C:1:U:H5	1:B:1:U:H3	1	0.19
(2,1)	1:C:1:U:H5	1:C:1:U:H3	1	0.19
(2,1)	1:C:1:U:H5	1:D:1:U:H3	1	0.19
(2,1)	1:D:1:U:H5	1:A:1:U:H3	1	0.19
(2,1)	1:D:1:U:H5	1:B:1:U:H3	1	0.19
(2,1)	1:D:1:U:H5	1:C:1:U:H3	1	0.19
(2,1)	1:D:1:U:H5	1:D:1:U:H3	1	0.19
(2,1)	1:A:1:U:H5	1:A:1:U:H3	6	0.19
(2,1)	1:A:1:U:H5	1:B:1:U:H3	6	0.19
(2,1)	1:A:1:U:H5	1:C:1:U:H3	6	0.19
(2,1)	1:A:1:U:H5	1:D:1:U:H3	6	0.19
(2,1)	1:B:1:U:H5	1:A:1:U:H3	6	0.19
(2,1)	1:B:1:U:H5	1:B:1:U:H3	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1)	1:B:1:U:H5	1:C:1:U:H3	6	0.19
(2,1)	1:B:1:U:H5	1:D:1:U:H3	6	0.19
(2,1)	1:C:1:U:H5	1:A:1:U:H3	6	0.19
(2,1)	1:C:1:U:H5	1:B:1:U:H3	6	0.19
(2,1)	1:C:1:U:H5	1:C:1:U:H3	6	0.19
(2,1)	1:C:1:U:H5	1:D:1:U:H3	6	0.19
(2,1)	1:D:1:U:H5	1:A:1:U:H3	6	0.19
(2,1)	1:D:1:U:H5	1:B:1:U:H3	6	0.19
(2,1)	1:D:1:U:H5	1:C:1:U:H3	6	0.19
(2,1)	1:D:1:U:H5	1:D:1:U:H3	6	0.19
(2,1)	1:A:1:U:H5	1:A:1:U:H3	9	0.19
(2,1)	1:A:1:U:H5	1:B:1:U:H3	9	0.19
(2,1)	1:A:1:U:H5	1:C:1:U:H3	9	0.19
(2,1)	1:A:1:U:H5	1:D:1:U:H3	9	0.19
(2,1)	1:B:1:U:H5	1:A:1:U:H3	9	0.19
(2,1)	1:B:1:U:H5	1:B:1:U:H3	9	0.19
(2,1)	1:B:1:U:H5	1:C:1:U:H3	9	0.19
(2,1)	1:B:1:U:H5	1:D:1:U:H3	9	0.19
(2,1)	1:C:1:U:H5	1:A:1:U:H3	9	0.19
(2,1)	1:C:1:U:H5	1:B:1:U:H3	9	0.19
(2,1)	1:C:1:U:H5	1:C:1:U:H3	9	0.19
(2,1)	1:C:1:U:H5	1:D:1:U:H3	9	0.19
(2,1)	1:D:1:U:H5	1:A:1:U:H3	9	0.19
(2,1)	1:D:1:U:H5	1:B:1:U:H3	9	0.19
(2,1)	1:D:1:U:H5	1:C:1:U:H3	9	0.19
(2,1)	1:D:1:U:H5	1:D:1:U:H3	9	0.19
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	6	0.19
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	6	0.19
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	6	0.19
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	6	0.19
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	6	0.19
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	6	0.19
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	6	0.19
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	6	0.19
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	6	0.19
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	6	0.19
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	6	0.19
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	6	0.19
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	6	0.19
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	6	0.19
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	6	0.19
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:A:3:G:H2'	1:A:4:U:H5''	6	0.19
(1,73)	1:A:3:G:H2'	1:B:4:U:H5''	6	0.19
(1,73)	1:A:3:G:H2'	1:C:4:U:H5''	6	0.19
(1,73)	1:A:3:G:H2'	1:D:4:U:H5''	6	0.19
(1,73)	1:B:3:G:H2'	1:A:4:U:H5''	6	0.19
(1,73)	1:B:3:G:H2'	1:B:4:U:H5''	6	0.19
(1,73)	1:B:3:G:H2'	1:C:4:U:H5''	6	0.19
(1,73)	1:B:3:G:H2'	1:D:4:U:H5''	6	0.19
(1,73)	1:C:3:G:H2'	1:A:4:U:H5''	6	0.19
(1,73)	1:C:3:G:H2'	1:B:4:U:H5''	6	0.19
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	6	0.19
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	6	0.19
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	6	0.19
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	6	0.19
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	6	0.19
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	6	0.19
(2,70)	1:A:7:U:H5'	1:A:7:U:H2'	14	0.18
(2,70)	1:A:7:U:H5'	1:B:7:U:H2'	14	0.18
(2,70)	1:A:7:U:H5'	1:C:7:U:H2'	14	0.18
(2,70)	1:A:7:U:H5'	1:D:7:U:H2'	14	0.18
(2,70)	1:B:7:U:H5'	1:A:7:U:H2'	14	0.18
(2,70)	1:B:7:U:H5'	1:B:7:U:H2'	14	0.18
(2,70)	1:B:7:U:H5'	1:C:7:U:H2'	14	0.18
(2,70)	1:B:7:U:H5'	1:D:7:U:H2'	14	0.18
(2,70)	1:C:7:U:H5'	1:A:7:U:H2'	14	0.18
(2,70)	1:C:7:U:H5'	1:B:7:U:H2'	14	0.18
(2,70)	1:C:7:U:H5'	1:C:7:U:H2'	14	0.18
(2,70)	1:C:7:U:H5'	1:D:7:U:H2'	14	0.18
(2,70)	1:D:7:U:H5'	1:A:7:U:H2'	14	0.18
(2,70)	1:D:7:U:H5'	1:B:7:U:H2'	14	0.18
(2,70)	1:D:7:U:H5'	1:C:7:U:H2'	14	0.18
(2,70)	1:D:7:U:H5'	1:D:7:U:H2'	14	0.18
(2,70)	1:A:7:U:H5''	1:A:7:U:H2'	14	0.18
(2,70)	1:A:7:U:H5''	1:B:7:U:H2'	14	0.18
(2,70)	1:A:7:U:H5''	1:C:7:U:H2'	14	0.18
(2,70)	1:A:7:U:H5''	1:D:7:U:H2'	14	0.18
(2,70)	1:B:7:U:H5''	1:A:7:U:H2'	14	0.18
(2,70)	1:B:7:U:H5''	1:B:7:U:H2'	14	0.18
(2,70)	1:B:7:U:H5''	1:C:7:U:H2'	14	0.18
(2,70)	1:B:7:U:H5''	1:D:7:U:H2'	14	0.18
(2,70)	1:C:7:U:H5''	1:A:7:U:H2'	14	0.18
(2,70)	1:C:7:U:H5''	1:B:7:U:H2'	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:C:7:U:H5''	1:C:7:U:H2'	14	0.18
(2,70)	1:C:7:U:H5''	1:D:7:U:H2'	14	0.18
(2,70)	1:D:7:U:H5''	1:A:7:U:H2'	14	0.18
(2,70)	1:D:7:U:H5''	1:B:7:U:H2'	14	0.18
(2,70)	1:D:7:U:H5''	1:C:7:U:H2'	14	0.18
(2,70)	1:D:7:U:H5''	1:D:7:U:H2'	14	0.18
(2,34)	1:A:5:G:H8	1:A:6:G:H21	11	0.18
(2,34)	1:A:5:G:H8	1:B:6:G:H21	11	0.18
(2,34)	1:A:5:G:H8	1:C:6:G:H21	11	0.18
(2,34)	1:A:5:G:H8	1:D:6:G:H21	11	0.18
(2,34)	1:B:5:G:H8	1:A:6:G:H21	11	0.18
(2,34)	1:B:5:G:H8	1:B:6:G:H21	11	0.18
(2,34)	1:B:5:G:H8	1:C:6:G:H21	11	0.18
(2,34)	1:B:5:G:H8	1:D:6:G:H21	11	0.18
(2,34)	1:C:5:G:H8	1:A:6:G:H21	11	0.18
(2,34)	1:C:5:G:H8	1:B:6:G:H21	11	0.18
(2,34)	1:C:5:G:H8	1:C:6:G:H21	11	0.18
(2,34)	1:C:5:G:H8	1:D:6:G:H21	11	0.18
(2,34)	1:D:5:G:H8	1:A:6:G:H21	11	0.18
(2,34)	1:D:5:G:H8	1:B:6:G:H21	11	0.18
(2,34)	1:D:5:G:H8	1:C:6:G:H21	11	0.18
(2,34)	1:D:5:G:H8	1:D:6:G:H21	11	0.18
(2,23)	1:A:4:U:H5	1:A:4:U:H3	13	0.18
(2,23)	1:A:4:U:H5	1:B:4:U:H3	13	0.18
(2,23)	1:A:4:U:H5	1:C:4:U:H3	13	0.18
(2,23)	1:A:4:U:H5	1:D:4:U:H3	13	0.18
(2,23)	1:B:4:U:H5	1:A:4:U:H3	13	0.18
(2,23)	1:B:4:U:H5	1:B:4:U:H3	13	0.18
(2,23)	1:B:4:U:H5	1:C:4:U:H3	13	0.18
(2,23)	1:B:4:U:H5	1:D:4:U:H3	13	0.18
(2,23)	1:C:4:U:H5	1:A:4:U:H3	13	0.18
(2,23)	1:C:4:U:H5	1:B:4:U:H3	13	0.18
(2,23)	1:C:4:U:H5	1:C:4:U:H3	13	0.18
(2,23)	1:C:4:U:H5	1:D:4:U:H3	13	0.18
(2,23)	1:D:4:U:H5	1:A:4:U:H3	13	0.18
(2,23)	1:D:4:U:H5	1:B:4:U:H3	13	0.18
(2,23)	1:D:4:U:H5	1:C:4:U:H3	13	0.18
(2,23)	1:D:4:U:H5	1:D:4:U:H3	13	0.18
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	13	0.18
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	13	0.18
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	13	0.18
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	13	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	13	0.18
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	13	0.18
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	13	0.18
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	13	0.18
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	13	0.18
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	13	0.18
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	13	0.18
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	13	0.18
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	13	0.18
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	13	0.18
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	13	0.18
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	13	0.18
(1,73)	1:A:3:G:H2'	1:A:4:U:H5''	13	0.18
(1,73)	1:A:3:G:H2'	1:B:4:U:H5''	13	0.18
(1,73)	1:A:3:G:H2'	1:C:4:U:H5''	13	0.18
(1,73)	1:A:3:G:H2'	1:D:4:U:H5''	13	0.18
(1,73)	1:B:3:G:H2'	1:A:4:U:H5''	13	0.18
(1,73)	1:B:3:G:H2'	1:B:4:U:H5''	13	0.18
(1,73)	1:B:3:G:H2'	1:C:4:U:H5''	13	0.18
(1,73)	1:B:3:G:H2'	1:D:4:U:H5''	13	0.18
(1,73)	1:C:3:G:H2'	1:A:4:U:H5''	13	0.18
(1,73)	1:C:3:G:H2'	1:B:4:U:H5''	13	0.18
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	13	0.18
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	13	0.18
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	13	0.18
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	13	0.18
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	13	0.18
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	13	0.18
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	14	0.18
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	14	0.18
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	14	0.18
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	14	0.18
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	14	0.18
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	14	0.18
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	14	0.18
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	14	0.18
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	14	0.18
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	14	0.18
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	14	0.18
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	14	0.18
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	14	0.18
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	14	0.18
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	14	0.18
(1,73)	1:A:3:G:H2'	1:A:4:U:H5''	14	0.18
(1,73)	1:A:3:G:H2'	1:B:4:U:H5''	14	0.18
(1,73)	1:A:3:G:H2'	1:C:4:U:H5''	14	0.18
(1,73)	1:A:3:G:H2'	1:D:4:U:H5''	14	0.18
(1,73)	1:B:3:G:H2'	1:A:4:U:H5''	14	0.18
(1,73)	1:B:3:G:H2'	1:B:4:U:H5''	14	0.18
(1,73)	1:B:3:G:H2'	1:C:4:U:H5''	14	0.18
(1,73)	1:B:3:G:H2'	1:D:4:U:H5''	14	0.18
(1,73)	1:C:3:G:H2'	1:A:4:U:H5''	14	0.18
(1,73)	1:C:3:G:H2'	1:B:4:U:H5''	14	0.18
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	14	0.18
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	14	0.18
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	14	0.18
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	14	0.18
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	14	0.18
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	14	0.18
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	2	0.18
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	2	0.18
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	2	0.18
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	2	0.18
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	2	0.18
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	2	0.18
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	2	0.18
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	2	0.18
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	2	0.18
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	2	0.18
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	2	0.18
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	2	0.18
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	2	0.18
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	2	0.18
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	2	0.18
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	2	0.18
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	2	0.18
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	2	0.18
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	2	0.18
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	2	0.18
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	2	0.18
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	2	0.18
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	2	0.18
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	2	0.18
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	2	0.18
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	2	0.18
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	2	0.18
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	2	0.18
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	2	0.18
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	2	0.18
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	2	0.18
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	15	0.18
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	15	0.18
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	15	0.18
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	15	0.18
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	15	0.18
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	15	0.18
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	15	0.18
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	15	0.18
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	15	0.18
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	15	0.18
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	15	0.18
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	15	0.18
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	15	0.18
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	15	0.18
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	15	0.18
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	15	0.18
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	15	0.18
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	15	0.18
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	15	0.18
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	15	0.18
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	15	0.18
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	15	0.18
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	15	0.18
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	15	0.18
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	15	0.18
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	15	0.18
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	15	0.18
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	15	0.18
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	15	0.18
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	15	0.18
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	15	0.18
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	15	0.18
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	2	0.18
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	2	0.18
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	2	0.18
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	2	0.18
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	2	0.18
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	2	0.18
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	2	0.18
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	2	0.18
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	2	0.18
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	2	0.18
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	2	0.18
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	2	0.18
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	2	0.18
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	2	0.18
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	2	0.18
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	2	0.18
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	2	0.18
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	2	0.18
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	2	0.18
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	2	0.18
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	2	0.18
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	2	0.18
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	2	0.18
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	2	0.18
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	2	0.18
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	2	0.18
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	2	0.18
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	2	0.18
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	2	0.18
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	2	0.18
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	2	0.18
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	15	0.18
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	15	0.18
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	15	0.18
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	15	0.18
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	15	0.18
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	15	0.18
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	15	0.18
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	15	0.18
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	15	0.18
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	15	0.18
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	15	0.18
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	15	0.18
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	15	0.18
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	15	0.18
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	15	0.18
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	15	0.18
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	15	0.18
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	15	0.18
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	15	0.18
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	15	0.18
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	15	0.18
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	15	0.18
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	15	0.18
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	15	0.18
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	15	0.18
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	15	0.18
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	15	0.18
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	15	0.18
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	15	0.18
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	15	0.18
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	15	0.18
(2,6)	1:A:2:G:H8	1:A:2:G:H21	6	0.17
(2,6)	1:A:2:G:H8	1:B:2:G:H21	6	0.17
(2,6)	1:A:2:G:H8	1:C:2:G:H21	6	0.17
(2,6)	1:A:2:G:H8	1:D:2:G:H21	6	0.17
(2,6)	1:B:2:G:H8	1:A:2:G:H21	6	0.17
(2,6)	1:B:2:G:H8	1:B:2:G:H21	6	0.17
(2,6)	1:B:2:G:H8	1:C:2:G:H21	6	0.17
(2,6)	1:B:2:G:H8	1:D:2:G:H21	6	0.17
(2,6)	1:C:2:G:H8	1:A:2:G:H21	6	0.17
(2,6)	1:C:2:G:H8	1:B:2:G:H21	6	0.17
(2,6)	1:C:2:G:H8	1:C:2:G:H21	6	0.17
(2,6)	1:C:2:G:H8	1:D:2:G:H21	6	0.17
(2,6)	1:D:2:G:H8	1:A:2:G:H21	6	0.17
(2,6)	1:D:2:G:H8	1:B:2:G:H21	6	0.17
(2,6)	1:D:2:G:H8	1:C:2:G:H21	6	0.17
(2,6)	1:D:2:G:H8	1:D:2:G:H21	6	0.17
(2,6)	1:A:2:G:H8	1:A:2:G:H21	9	0.17
(2,6)	1:A:2:G:H8	1:B:2:G:H21	9	0.17
(2,6)	1:A:2:G:H8	1:C:2:G:H21	9	0.17
(2,6)	1:A:2:G:H8	1:D:2:G:H21	9	0.17
(2,6)	1:B:2:G:H8	1:A:2:G:H21	9	0.17
(2,6)	1:B:2:G:H8	1:B:2:G:H21	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,6)	1:B:2:G:H8	1:C:2:G:H21	9	0.17
(2,6)	1:B:2:G:H8	1:D:2:G:H21	9	0.17
(2,6)	1:C:2:G:H8	1:A:2:G:H21	9	0.17
(2,6)	1:C:2:G:H8	1:B:2:G:H21	9	0.17
(2,6)	1:C:2:G:H8	1:C:2:G:H21	9	0.17
(2,6)	1:C:2:G:H8	1:D:2:G:H21	9	0.17
(2,6)	1:D:2:G:H8	1:A:2:G:H21	9	0.17
(2,6)	1:D:2:G:H8	1:B:2:G:H21	9	0.17
(2,6)	1:D:2:G:H8	1:C:2:G:H21	9	0.17
(2,6)	1:D:2:G:H8	1:D:2:G:H21	9	0.17
(2,23)	1:A:4:U:H5	1:A:4:U:H3	6	0.17
(2,23)	1:A:4:U:H5	1:B:4:U:H3	6	0.17
(2,23)	1:A:4:U:H5	1:C:4:U:H3	6	0.17
(2,23)	1:A:4:U:H5	1:D:4:U:H3	6	0.17
(2,23)	1:B:4:U:H5	1:A:4:U:H3	6	0.17
(2,23)	1:B:4:U:H5	1:B:4:U:H3	6	0.17
(2,23)	1:B:4:U:H5	1:C:4:U:H3	6	0.17
(2,23)	1:B:4:U:H5	1:D:4:U:H3	6	0.17
(2,23)	1:C:4:U:H5	1:A:4:U:H3	6	0.17
(2,23)	1:C:4:U:H5	1:B:4:U:H3	6	0.17
(2,23)	1:C:4:U:H5	1:C:4:U:H3	6	0.17
(2,23)	1:C:4:U:H5	1:D:4:U:H3	6	0.17
(2,23)	1:D:4:U:H5	1:A:4:U:H3	6	0.17
(2,23)	1:D:4:U:H5	1:B:4:U:H3	6	0.17
(2,23)	1:D:4:U:H5	1:C:4:U:H3	6	0.17
(2,23)	1:D:4:U:H5	1:D:4:U:H3	6	0.17
(2,23)	1:A:4:U:H5	1:A:4:U:H3	15	0.17
(2,23)	1:A:4:U:H5	1:B:4:U:H3	15	0.17
(2,23)	1:A:4:U:H5	1:C:4:U:H3	15	0.17
(2,23)	1:A:4:U:H5	1:D:4:U:H3	15	0.17
(2,23)	1:B:4:U:H5	1:A:4:U:H3	15	0.17
(2,23)	1:B:4:U:H5	1:B:4:U:H3	15	0.17
(2,23)	1:B:4:U:H5	1:C:4:U:H3	15	0.17
(2,23)	1:B:4:U:H5	1:D:4:U:H3	15	0.17
(2,23)	1:C:4:U:H5	1:A:4:U:H3	15	0.17
(2,23)	1:C:4:U:H5	1:B:4:U:H3	15	0.17
(2,23)	1:C:4:U:H5	1:C:4:U:H3	15	0.17
(2,23)	1:C:4:U:H5	1:D:4:U:H3	15	0.17
(2,23)	1:D:4:U:H5	1:A:4:U:H3	15	0.17
(2,23)	1:D:4:U:H5	1:B:4:U:H3	15	0.17
(2,23)	1:D:4:U:H5	1:C:4:U:H3	15	0.17
(2,23)	1:D:4:U:H5	1:D:4:U:H3	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1)	1:A:1:U:H5	1:A:1:U:H3	15	0.17
(2,1)	1:A:1:U:H5	1:B:1:U:H3	15	0.17
(2,1)	1:A:1:U:H5	1:C:1:U:H3	15	0.17
(2,1)	1:A:1:U:H5	1:D:1:U:H3	15	0.17
(2,1)	1:B:1:U:H5	1:A:1:U:H3	15	0.17
(2,1)	1:B:1:U:H5	1:B:1:U:H3	15	0.17
(2,1)	1:B:1:U:H5	1:C:1:U:H3	15	0.17
(2,1)	1:B:1:U:H5	1:D:1:U:H3	15	0.17
(2,1)	1:C:1:U:H5	1:A:1:U:H3	15	0.17
(2,1)	1:C:1:U:H5	1:B:1:U:H3	15	0.17
(2,1)	1:C:1:U:H5	1:C:1:U:H3	15	0.17
(2,1)	1:C:1:U:H5	1:D:1:U:H3	15	0.17
(2,1)	1:D:1:U:H5	1:A:1:U:H3	15	0.17
(2,1)	1:D:1:U:H5	1:B:1:U:H3	15	0.17
(2,1)	1:D:1:U:H5	1:C:1:U:H3	15	0.17
(2,1)	1:D:1:U:H5	1:D:1:U:H3	15	0.17
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	11	0.17
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	11	0.17
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	11	0.17
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	11	0.17
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	11	0.17
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	11	0.17
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	11	0.17
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	11	0.17
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	11	0.17
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	11	0.17
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	11	0.17
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	11	0.17
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	11	0.17
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	11	0.17
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	11	0.17
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	11	0.17
(1,73)	1:A:3:G:H2'	1:A:4:U:H5''	11	0.17
(1,73)	1:A:3:G:H2'	1:B:4:U:H5''	11	0.17
(1,73)	1:A:3:G:H2'	1:C:4:U:H5''	11	0.17
(1,73)	1:A:3:G:H2'	1:D:4:U:H5''	11	0.17
(1,73)	1:B:3:G:H2'	1:A:4:U:H5''	11	0.17
(1,73)	1:B:3:G:H2'	1:B:4:U:H5''	11	0.17
(1,73)	1:B:3:G:H2'	1:C:4:U:H5''	11	0.17
(1,73)	1:B:3:G:H2'	1:D:4:U:H5''	11	0.17
(1,73)	1:C:3:G:H2'	1:A:4:U:H5''	11	0.17
(1,73)	1:C:3:G:H2'	1:B:4:U:H5''	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	11	0.17
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	11	0.17
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	11	0.17
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	11	0.17
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	11	0.17
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	11	0.17
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	3	0.17
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	3	0.17
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	3	0.17
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	3	0.17
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	3	0.17
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	3	0.17
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	3	0.17
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	3	0.17
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	3	0.17
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	3	0.17
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	3	0.17
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	3	0.17
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	3	0.17
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	3	0.17
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	3	0.17
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	3	0.17
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	3	0.17
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	3	0.17
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	3	0.17
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	3	0.17
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	3	0.17
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	3	0.17
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	3	0.17
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	3	0.17
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	3	0.17
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	3	0.17
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	3	0.17
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	3	0.17
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	3	0.17
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	3	0.17
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	3	0.17
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	3	0.17
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	6	0.17
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	6	0.17
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	6	0.17
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	6	0.17
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	6	0.17
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	6	0.17
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	6	0.17
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	6	0.17
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	6	0.17
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	6	0.17
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	6	0.17
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	6	0.17
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	6	0.17
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	6	0.17
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	6	0.17
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	6	0.17
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	6	0.17
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	6	0.17
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	6	0.17
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	6	0.17
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	6	0.17
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	6	0.17
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	6	0.17
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	6	0.17
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	6	0.17
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	6	0.17
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	6	0.17
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	6	0.17
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	6	0.17
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	6	0.17
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	6	0.17
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	3	0.17
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	3	0.17
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	3	0.17
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	3	0.17
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	3	0.17
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	3	0.17
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	3	0.17
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	3	0.17
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	3	0.17
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	3	0.17
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	3	0.17
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	3	0.17
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	3	0.17
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	3	0.17
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	3	0.17
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	3	0.17
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	3	0.17
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	3	0.17
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	3	0.17
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	3	0.17
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	3	0.17
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	3	0.17
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	3	0.17
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	3	0.17
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	3	0.17
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	3	0.17
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	3	0.17
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	3	0.17
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	3	0.17
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	3	0.17
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	3	0.17
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	6	0.17
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	6	0.17
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	6	0.17
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	6	0.17
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	6	0.17
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	6	0.17
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	6	0.17
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	6	0.17
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	6	0.17
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	6	0.17
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	6	0.17
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	6	0.17
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	6	0.17
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	6	0.17
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	6	0.17
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	6	0.17
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	6	0.17
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	6	0.17
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	6	0.17
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	6	0.17
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	6	0.17
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	6	0.17
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	6	0.17
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	6	0.17
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	6	0.17
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	6	0.17
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	6	0.17
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	6	0.17
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	6	0.17
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	6	0.17
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	6	0.17
(2,23)	1:A:4:U:H5	1:A:4:U:H3	1	0.16
(2,23)	1:A:4:U:H5	1:B:4:U:H3	1	0.16
(2,23)	1:A:4:U:H5	1:C:4:U:H3	1	0.16
(2,23)	1:A:4:U:H5	1:D:4:U:H3	1	0.16
(2,23)	1:B:4:U:H5	1:A:4:U:H3	1	0.16
(2,23)	1:B:4:U:H5	1:B:4:U:H3	1	0.16
(2,23)	1:B:4:U:H5	1:C:4:U:H3	1	0.16
(2,23)	1:B:4:U:H5	1:D:4:U:H3	1	0.16
(2,23)	1:C:4:U:H5	1:A:4:U:H3	1	0.16
(2,23)	1:C:4:U:H5	1:B:4:U:H3	1	0.16
(2,23)	1:C:4:U:H5	1:C:4:U:H3	1	0.16
(2,23)	1:C:4:U:H5	1:D:4:U:H3	1	0.16
(2,23)	1:D:4:U:H5	1:A:4:U:H3	1	0.16
(2,23)	1:D:4:U:H5	1:B:4:U:H3	1	0.16
(2,23)	1:D:4:U:H5	1:C:4:U:H3	1	0.16
(2,23)	1:D:4:U:H5	1:D:4:U:H3	1	0.16
(2,23)	1:A:4:U:H5	1:A:4:U:H3	2	0.16
(2,23)	1:A:4:U:H5	1:B:4:U:H3	2	0.16
(2,23)	1:A:4:U:H5	1:C:4:U:H3	2	0.16
(2,23)	1:A:4:U:H5	1:D:4:U:H3	2	0.16
(2,23)	1:B:4:U:H5	1:A:4:U:H3	2	0.16
(2,23)	1:B:4:U:H5	1:B:4:U:H3	2	0.16
(2,23)	1:B:4:U:H5	1:C:4:U:H3	2	0.16
(2,23)	1:B:4:U:H5	1:D:4:U:H3	2	0.16
(2,23)	1:C:4:U:H5	1:A:4:U:H3	2	0.16
(2,23)	1:C:4:U:H5	1:B:4:U:H3	2	0.16
(2,23)	1:C:4:U:H5	1:C:4:U:H3	2	0.16
(2,23)	1:C:4:U:H5	1:D:4:U:H3	2	0.16
(2,23)	1:D:4:U:H5	1:A:4:U:H3	2	0.16
(2,23)	1:D:4:U:H5	1:B:4:U:H3	2	0.16
(2,23)	1:D:4:U:H5	1:C:4:U:H3	2	0.16
(2,23)	1:D:4:U:H5	1:D:4:U:H3	2	0.16
(2,23)	1:A:4:U:H5	1:A:4:U:H3	8	0.16
(2,23)	1:A:4:U:H5	1:B:4:U:H3	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,23)	1:A:4:U:H5	1:C:4:U:H3	8	0.16
(2,23)	1:A:4:U:H5	1:D:4:U:H3	8	0.16
(2,23)	1:B:4:U:H5	1:A:4:U:H3	8	0.16
(2,23)	1:B:4:U:H5	1:B:4:U:H3	8	0.16
(2,23)	1:B:4:U:H5	1:C:4:U:H3	8	0.16
(2,23)	1:B:4:U:H5	1:D:4:U:H3	8	0.16
(2,23)	1:C:4:U:H5	1:A:4:U:H3	8	0.16
(2,23)	1:C:4:U:H5	1:B:4:U:H3	8	0.16
(2,23)	1:C:4:U:H5	1:C:4:U:H3	8	0.16
(2,23)	1:C:4:U:H5	1:D:4:U:H3	8	0.16
(2,23)	1:D:4:U:H5	1:A:4:U:H3	8	0.16
(2,23)	1:D:4:U:H5	1:B:4:U:H3	8	0.16
(2,23)	1:D:4:U:H5	1:C:4:U:H3	8	0.16
(2,23)	1:D:4:U:H5	1:D:4:U:H3	8	0.16
(2,21)	1:A:3:G:H21	1:A:4:U:H1'	14	0.16
(2,21)	1:A:3:G:H21	1:B:4:U:H1'	14	0.16
(2,21)	1:A:3:G:H21	1:C:4:U:H1'	14	0.16
(2,21)	1:A:3:G:H21	1:D:4:U:H1'	14	0.16
(2,21)	1:B:3:G:H21	1:A:4:U:H1'	14	0.16
(2,21)	1:B:3:G:H21	1:B:4:U:H1'	14	0.16
(2,21)	1:B:3:G:H21	1:C:4:U:H1'	14	0.16
(2,21)	1:B:3:G:H21	1:D:4:U:H1'	14	0.16
(2,21)	1:C:3:G:H21	1:A:4:U:H1'	14	0.16
(2,21)	1:C:3:G:H21	1:B:4:U:H1'	14	0.16
(2,21)	1:C:3:G:H21	1:C:4:U:H1'	14	0.16
(2,21)	1:C:3:G:H21	1:D:4:U:H1'	14	0.16
(2,21)	1:D:3:G:H21	1:A:4:U:H1'	14	0.16
(2,21)	1:D:3:G:H21	1:B:4:U:H1'	14	0.16
(2,21)	1:D:3:G:H21	1:C:4:U:H1'	14	0.16
(2,21)	1:D:3:G:H21	1:D:4:U:H1'	14	0.16
(2,13)	1:A:2:G:H22	1:A:1:U:H5	1	0.16
(2,13)	1:A:2:G:H22	1:B:1:U:H5	1	0.16
(2,13)	1:A:2:G:H22	1:C:1:U:H5	1	0.16
(2,13)	1:A:2:G:H22	1:D:1:U:H5	1	0.16
(2,13)	1:B:2:G:H22	1:A:1:U:H5	1	0.16
(2,13)	1:B:2:G:H22	1:B:1:U:H5	1	0.16
(2,13)	1:B:2:G:H22	1:C:1:U:H5	1	0.16
(2,13)	1:B:2:G:H22	1:D:1:U:H5	1	0.16
(2,13)	1:C:2:G:H22	1:A:1:U:H5	1	0.16
(2,13)	1:C:2:G:H22	1:B:1:U:H5	1	0.16
(2,13)	1:C:2:G:H22	1:C:1:U:H5	1	0.16
(2,13)	1:C:2:G:H22	1:D:1:U:H5	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,13)	1:D:2:G:H22	1:A:1:U:H5	1	0.16
(2,13)	1:D:2:G:H22	1:B:1:U:H5	1	0.16
(2,13)	1:D:2:G:H22	1:C:1:U:H5	1	0.16
(2,13)	1:D:2:G:H22	1:D:1:U:H5	1	0.16
(2,13)	1:A:2:G:H22	1:A:1:U:H5	13	0.16
(2,13)	1:A:2:G:H22	1:B:1:U:H5	13	0.16
(2,13)	1:A:2:G:H22	1:C:1:U:H5	13	0.16
(2,13)	1:A:2:G:H22	1:D:1:U:H5	13	0.16
(2,13)	1:B:2:G:H22	1:A:1:U:H5	13	0.16
(2,13)	1:B:2:G:H22	1:B:1:U:H5	13	0.16
(2,13)	1:B:2:G:H22	1:C:1:U:H5	13	0.16
(2,13)	1:B:2:G:H22	1:D:1:U:H5	13	0.16
(2,13)	1:C:2:G:H22	1:A:1:U:H5	13	0.16
(2,13)	1:C:2:G:H22	1:B:1:U:H5	13	0.16
(2,13)	1:C:2:G:H22	1:C:1:U:H5	13	0.16
(2,13)	1:C:2:G:H22	1:D:1:U:H5	13	0.16
(2,13)	1:D:2:G:H22	1:A:1:U:H5	13	0.16
(2,13)	1:D:2:G:H22	1:B:1:U:H5	13	0.16
(2,13)	1:D:2:G:H22	1:C:1:U:H5	13	0.16
(2,13)	1:D:2:G:H22	1:D:1:U:H5	13	0.16
(2,1)	1:A:1:U:H5	1:A:1:U:H3	2	0.16
(2,1)	1:A:1:U:H5	1:B:1:U:H3	2	0.16
(2,1)	1:A:1:U:H5	1:C:1:U:H3	2	0.16
(2,1)	1:A:1:U:H5	1:D:1:U:H3	2	0.16
(2,1)	1:B:1:U:H5	1:A:1:U:H3	2	0.16
(2,1)	1:B:1:U:H5	1:B:1:U:H3	2	0.16
(2,1)	1:B:1:U:H5	1:C:1:U:H3	2	0.16
(2,1)	1:B:1:U:H5	1:D:1:U:H3	2	0.16
(2,1)	1:C:1:U:H5	1:A:1:U:H3	2	0.16
(2,1)	1:C:1:U:H5	1:B:1:U:H3	2	0.16
(2,1)	1:C:1:U:H5	1:C:1:U:H3	2	0.16
(2,1)	1:C:1:U:H5	1:D:1:U:H3	2	0.16
(2,1)	1:D:1:U:H5	1:A:1:U:H3	2	0.16
(2,1)	1:D:1:U:H5	1:B:1:U:H3	2	0.16
(2,1)	1:D:1:U:H5	1:C:1:U:H3	2	0.16
(2,1)	1:D:1:U:H5	1:D:1:U:H3	2	0.16
(2,1)	1:A:1:U:H5	1:A:1:U:H3	4	0.16
(2,1)	1:A:1:U:H5	1:B:1:U:H3	4	0.16
(2,1)	1:A:1:U:H5	1:C:1:U:H3	4	0.16
(2,1)	1:A:1:U:H5	1:D:1:U:H3	4	0.16
(2,1)	1:B:1:U:H5	1:A:1:U:H3	4	0.16
(2,1)	1:B:1:U:H5	1:B:1:U:H3	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1)	1:B:1:U:H5	1:C:1:U:H3	4	0.16
(2,1)	1:B:1:U:H5	1:D:1:U:H3	4	0.16
(2,1)	1:C:1:U:H5	1:A:1:U:H3	4	0.16
(2,1)	1:C:1:U:H5	1:B:1:U:H3	4	0.16
(2,1)	1:C:1:U:H5	1:C:1:U:H3	4	0.16
(2,1)	1:C:1:U:H5	1:D:1:U:H3	4	0.16
(2,1)	1:D:1:U:H5	1:A:1:U:H3	4	0.16
(2,1)	1:D:1:U:H5	1:B:1:U:H3	4	0.16
(2,1)	1:D:1:U:H5	1:C:1:U:H3	4	0.16
(2,1)	1:D:1:U:H5	1:D:1:U:H3	4	0.16
(2,1)	1:A:1:U:H5	1:A:1:U:H3	12	0.16
(2,1)	1:A:1:U:H5	1:B:1:U:H3	12	0.16
(2,1)	1:A:1:U:H5	1:C:1:U:H3	12	0.16
(2,1)	1:A:1:U:H5	1:D:1:U:H3	12	0.16
(2,1)	1:B:1:U:H5	1:A:1:U:H3	12	0.16
(2,1)	1:B:1:U:H5	1:B:1:U:H3	12	0.16
(2,1)	1:B:1:U:H5	1:C:1:U:H3	12	0.16
(2,1)	1:B:1:U:H5	1:D:1:U:H3	12	0.16
(2,1)	1:C:1:U:H5	1:A:1:U:H3	12	0.16
(2,1)	1:C:1:U:H5	1:B:1:U:H3	12	0.16
(2,1)	1:C:1:U:H5	1:C:1:U:H3	12	0.16
(2,1)	1:C:1:U:H5	1:D:1:U:H3	12	0.16
(2,1)	1:D:1:U:H5	1:A:1:U:H3	12	0.16
(2,1)	1:D:1:U:H5	1:B:1:U:H3	12	0.16
(2,1)	1:D:1:U:H5	1:C:1:U:H3	12	0.16
(2,1)	1:D:1:U:H5	1:D:1:U:H3	12	0.16
(2,9)	1:A:2:G:H21	1:A:1:U:H5	8	0.15
(2,9)	1:A:2:G:H21	1:B:1:U:H5	8	0.15
(2,9)	1:A:2:G:H21	1:C:1:U:H5	8	0.15
(2,9)	1:A:2:G:H21	1:D:1:U:H5	8	0.15
(2,9)	1:B:2:G:H21	1:A:1:U:H5	8	0.15
(2,9)	1:B:2:G:H21	1:B:1:U:H5	8	0.15
(2,9)	1:B:2:G:H21	1:C:1:U:H5	8	0.15
(2,9)	1:B:2:G:H21	1:D:1:U:H5	8	0.15
(2,9)	1:C:2:G:H21	1:A:1:U:H5	8	0.15
(2,9)	1:C:2:G:H21	1:B:1:U:H5	8	0.15
(2,9)	1:C:2:G:H21	1:C:1:U:H5	8	0.15
(2,9)	1:C:2:G:H21	1:D:1:U:H5	8	0.15
(2,9)	1:D:2:G:H21	1:A:1:U:H5	8	0.15
(2,9)	1:D:2:G:H21	1:B:1:U:H5	8	0.15
(2,9)	1:D:2:G:H21	1:C:1:U:H5	8	0.15
(2,9)	1:D:2:G:H21	1:D:1:U:H5	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,37)	1:A:5:G:H21	1:A:6:G:H1	2	0.15
(2,37)	1:A:5:G:H21	1:B:6:G:H1	2	0.15
(2,37)	1:A:5:G:H21	1:C:6:G:H1	2	0.15
(2,37)	1:A:5:G:H21	1:D:6:G:H1	2	0.15
(2,37)	1:B:5:G:H21	1:A:6:G:H1	2	0.15
(2,37)	1:B:5:G:H21	1:B:6:G:H1	2	0.15
(2,37)	1:B:5:G:H21	1:C:6:G:H1	2	0.15
(2,37)	1:B:5:G:H21	1:D:6:G:H1	2	0.15
(2,37)	1:C:5:G:H21	1:A:6:G:H1	2	0.15
(2,37)	1:C:5:G:H21	1:B:6:G:H1	2	0.15
(2,37)	1:C:5:G:H21	1:C:6:G:H1	2	0.15
(2,37)	1:C:5:G:H21	1:D:6:G:H1	2	0.15
(2,37)	1:D:5:G:H21	1:A:6:G:H1	2	0.15
(2,37)	1:D:5:G:H21	1:B:6:G:H1	2	0.15
(2,37)	1:D:5:G:H21	1:C:6:G:H1	2	0.15
(2,37)	1:D:5:G:H21	1:D:6:G:H1	2	0.15
(2,37)	1:A:5:G:H21	1:A:6:G:H1	12	0.15
(2,37)	1:A:5:G:H21	1:B:6:G:H1	12	0.15
(2,37)	1:A:5:G:H21	1:C:6:G:H1	12	0.15
(2,37)	1:A:5:G:H21	1:D:6:G:H1	12	0.15
(2,37)	1:B:5:G:H21	1:A:6:G:H1	12	0.15
(2,37)	1:B:5:G:H21	1:B:6:G:H1	12	0.15
(2,37)	1:B:5:G:H21	1:C:6:G:H1	12	0.15
(2,37)	1:B:5:G:H21	1:D:6:G:H1	12	0.15
(2,37)	1:C:5:G:H21	1:A:6:G:H1	12	0.15
(2,37)	1:C:5:G:H21	1:B:6:G:H1	12	0.15
(2,37)	1:C:5:G:H21	1:C:6:G:H1	12	0.15
(2,37)	1:C:5:G:H21	1:D:6:G:H1	12	0.15
(2,37)	1:D:5:G:H21	1:A:6:G:H1	12	0.15
(2,37)	1:D:5:G:H21	1:B:6:G:H1	12	0.15
(2,37)	1:D:5:G:H21	1:C:6:G:H1	12	0.15
(2,37)	1:D:5:G:H21	1:D:6:G:H1	12	0.15
(2,21)	1:A:3:G:H21	1:A:4:U:H1'	15	0.15
(2,21)	1:A:3:G:H21	1:B:4:U:H1'	15	0.15
(2,21)	1:A:3:G:H21	1:C:4:U:H1'	15	0.15
(2,21)	1:A:3:G:H21	1:D:4:U:H1'	15	0.15
(2,21)	1:B:3:G:H21	1:A:4:U:H1'	15	0.15
(2,21)	1:B:3:G:H21	1:B:4:U:H1'	15	0.15
(2,21)	1:B:3:G:H21	1:C:4:U:H1'	15	0.15
(2,21)	1:B:3:G:H21	1:D:4:U:H1'	15	0.15
(2,21)	1:C:3:G:H21	1:A:4:U:H1'	15	0.15
(2,21)	1:C:3:G:H21	1:B:4:U:H1'	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,21)	1:C:3:G:H21	1:C:4:U:H1'	15	0.15
(2,21)	1:C:3:G:H21	1:D:4:U:H1'	15	0.15
(2,21)	1:D:3:G:H21	1:A:4:U:H1'	15	0.15
(2,21)	1:D:3:G:H21	1:B:4:U:H1'	15	0.15
(2,21)	1:D:3:G:H21	1:C:4:U:H1'	15	0.15
(2,21)	1:D:3:G:H21	1:D:4:U:H1'	15	0.15
(2,1)	1:A:1:U:H5	1:A:1:U:H3	13	0.15
(2,1)	1:A:1:U:H5	1:B:1:U:H3	13	0.15
(2,1)	1:A:1:U:H5	1:C:1:U:H3	13	0.15
(2,1)	1:A:1:U:H5	1:D:1:U:H3	13	0.15
(2,1)	1:B:1:U:H5	1:A:1:U:H3	13	0.15
(2,1)	1:B:1:U:H5	1:B:1:U:H3	13	0.15
(2,1)	1:B:1:U:H5	1:C:1:U:H3	13	0.15
(2,1)	1:B:1:U:H5	1:D:1:U:H3	13	0.15
(2,1)	1:C:1:U:H5	1:A:1:U:H3	13	0.15
(2,1)	1:C:1:U:H5	1:B:1:U:H3	13	0.15
(2,1)	1:C:1:U:H5	1:C:1:U:H3	13	0.15
(2,1)	1:C:1:U:H5	1:D:1:U:H3	13	0.15
(2,1)	1:D:1:U:H5	1:A:1:U:H3	13	0.15
(2,1)	1:D:1:U:H5	1:B:1:U:H3	13	0.15
(2,1)	1:D:1:U:H5	1:C:1:U:H3	13	0.15
(2,1)	1:D:1:U:H5	1:D:1:U:H3	13	0.15
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	3	0.15
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	3	0.15
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	3	0.15
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	3	0.15
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	3	0.15
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	3	0.15
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	3	0.15
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	3	0.15
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	3	0.15
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	3	0.15
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	3	0.15
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	3	0.15
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	3	0.15
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	3	0.15
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	3	0.15
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	3	0.15
(1,73)	1:A:3:G:H2'	1:A:4:U:H5''	3	0.15
(1,73)	1:A:3:G:H2'	1:B:4:U:H5''	3	0.15
(1,73)	1:A:3:G:H2'	1:C:4:U:H5''	3	0.15
(1,73)	1:A:3:G:H2'	1:D:4:U:H5''	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:B:3:G:H2'	1:A:4:U:H5''	3	0.15
(1,73)	1:B:3:G:H2'	1:B:4:U:H5''	3	0.15
(1,73)	1:B:3:G:H2'	1:C:4:U:H5''	3	0.15
(1,73)	1:B:3:G:H2'	1:D:4:U:H5''	3	0.15
(1,73)	1:C:3:G:H2'	1:A:4:U:H5''	3	0.15
(1,73)	1:C:3:G:H2'	1:B:4:U:H5''	3	0.15
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	3	0.15
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	3	0.15
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	3	0.15
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	3	0.15
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	3	0.15
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	3	0.15
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	4	0.15
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	4	0.15
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	4	0.15
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	4	0.15
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	4	0.15
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	4	0.15
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	4	0.15
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	4	0.15
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	4	0.15
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	4	0.15
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	4	0.15
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	4	0.15
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	4	0.15
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	4	0.15
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	4	0.15
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	4	0.15
(1,73)	1:A:3:G:H2'	1:A:4:U:H5''	4	0.15
(1,73)	1:A:3:G:H2'	1:B:4:U:H5''	4	0.15
(1,73)	1:A:3:G:H2'	1:C:4:U:H5''	4	0.15
(1,73)	1:A:3:G:H2'	1:D:4:U:H5''	4	0.15
(1,73)	1:B:3:G:H2'	1:A:4:U:H5''	4	0.15
(1,73)	1:B:3:G:H2'	1:B:4:U:H5''	4	0.15
(1,73)	1:B:3:G:H2'	1:C:4:U:H5''	4	0.15
(1,73)	1:B:3:G:H2'	1:D:4:U:H5''	4	0.15
(1,73)	1:C:3:G:H2'	1:A:4:U:H5''	4	0.15
(1,73)	1:C:3:G:H2'	1:B:4:U:H5''	4	0.15
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	4	0.15
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	4	0.15
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	4	0.15
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	4	0.15
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	4	0.15
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	1	0.15
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	1	0.15
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	1	0.15
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	1	0.15
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	1	0.15
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	1	0.15
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	1	0.15
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	1	0.15
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	1	0.15
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	1	0.15
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	1	0.15
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	1	0.15
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	1	0.15
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	1	0.15
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	1	0.15
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	1	0.15
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	1	0.15
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	1	0.15
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	1	0.15
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	1	0.15
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	1	0.15
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	1	0.15
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	1	0.15
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	1	0.15
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	1	0.15
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	1	0.15
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	1	0.15
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	1	0.15
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	1	0.15
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	1	0.15
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	1	0.15
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	1	0.15
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	7	0.15
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	7	0.15
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	7	0.15
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	7	0.15
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	7	0.15
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	7	0.15
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	7	0.15
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	7	0.15
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	7	0.15
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	7	0.15
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	7	0.15
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	7	0.15
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	7	0.15
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	7	0.15
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	7	0.15
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	7	0.15
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	7	0.15
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	7	0.15
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	7	0.15
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	7	0.15
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	7	0.15
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	7	0.15
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	7	0.15
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	7	0.15
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	7	0.15
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	7	0.15
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	7	0.15
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	7	0.15
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	7	0.15
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	7	0.15
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	7	0.15
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	11	0.15
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	11	0.15
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	11	0.15
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	11	0.15
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	11	0.15
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	11	0.15
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	11	0.15
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	11	0.15
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	11	0.15
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	11	0.15
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	11	0.15
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	11	0.15
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	11	0.15
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	11	0.15
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	11	0.15
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	11	0.15
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	11	0.15
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	11	0.15
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	11	0.15
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	11	0.15
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	11	0.15
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	11	0.15
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	11	0.15
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	11	0.15
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	11	0.15
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	11	0.15
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	11	0.15
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	11	0.15
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	11	0.15
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	11	0.15
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	11	0.15
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	14	0.15
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	14	0.15
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	14	0.15
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	14	0.15
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	14	0.15
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	14	0.15
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	14	0.15
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	14	0.15
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	14	0.15
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	14	0.15
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	14	0.15
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	14	0.15
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	14	0.15
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	14	0.15
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	14	0.15
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	14	0.15
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	14	0.15
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	14	0.15
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	14	0.15
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	14	0.15
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	14	0.15
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	14	0.15
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	14	0.15
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	14	0.15
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	14	0.15
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	14	0.15
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	14	0.15
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	14	0.15
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	14	0.15
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	14	0.15
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	14	0.15
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	1	0.15
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	1	0.15
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	1	0.15
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	1	0.15
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	1	0.15
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	1	0.15
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	1	0.15
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	1	0.15
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	1	0.15
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	1	0.15
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	1	0.15
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	1	0.15
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	1	0.15
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	1	0.15
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	1	0.15
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	1	0.15
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	1	0.15
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	1	0.15
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	1	0.15
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	1	0.15
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	1	0.15
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	1	0.15
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	1	0.15
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	1	0.15
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	1	0.15
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	1	0.15
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	1	0.15
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	1	0.15
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	1	0.15
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	1	0.15
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	1	0.15
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	1	0.15
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	7	0.15
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	7	0.15
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	7	0.15
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	7	0.15
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	7	0.15
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	7	0.15
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	7	0.15
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	7	0.15
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	7	0.15
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	7	0.15
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	7	0.15
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	7	0.15
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	7	0.15
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	7	0.15
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	7	0.15
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	7	0.15
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	7	0.15
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	7	0.15
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	7	0.15
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	7	0.15
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	7	0.15
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	7	0.15
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	7	0.15
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	7	0.15
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	7	0.15
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	7	0.15
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	7	0.15
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	7	0.15
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	7	0.15
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	7	0.15
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	7	0.15
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	11	0.15
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	11	0.15
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	11	0.15
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	11	0.15
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	11	0.15
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	11	0.15
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	11	0.15
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	11	0.15
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	11	0.15
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	11	0.15
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	11	0.15
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	11	0.15
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	11	0.15
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	11	0.15
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	11	0.15
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	11	0.15
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	11	0.15
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	11	0.15
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	11	0.15
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	11	0.15
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	11	0.15
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	11	0.15
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	11	0.15
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	11	0.15
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	11	0.15
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	11	0.15
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	11	0.15
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	11	0.15
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	11	0.15
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	11	0.15
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	11	0.15
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	14	0.15
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	14	0.15
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	14	0.15
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	14	0.15
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	14	0.15
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	14	0.15
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	14	0.15
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	14	0.15
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	14	0.15
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	14	0.15
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	14	0.15
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	14	0.15
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	14	0.15
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	14	0.15
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	14	0.15
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	14	0.15
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	14	0.15
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	14	0.15
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	14	0.15
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	14	0.15
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	14	0.15
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	14	0.15
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	14	0.15
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	14	0.15
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	14	0.15
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	14	0.15
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	14	0.15
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	14	0.15
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	14	0.15
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	14	0.15
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	14	0.15
(2,37)	1:A:5:G:H21	1:A:6:G:H1	10	0.14
(2,37)	1:A:5:G:H21	1:B:6:G:H1	10	0.14
(2,37)	1:A:5:G:H21	1:C:6:G:H1	10	0.14
(2,37)	1:A:5:G:H21	1:D:6:G:H1	10	0.14
(2,37)	1:B:5:G:H21	1:A:6:G:H1	10	0.14
(2,37)	1:B:5:G:H21	1:B:6:G:H1	10	0.14
(2,37)	1:B:5:G:H21	1:C:6:G:H1	10	0.14
(2,37)	1:B:5:G:H21	1:D:6:G:H1	10	0.14
(2,37)	1:C:5:G:H21	1:A:6:G:H1	10	0.14
(2,37)	1:C:5:G:H21	1:B:6:G:H1	10	0.14
(2,37)	1:C:5:G:H21	1:C:6:G:H1	10	0.14
(2,37)	1:C:5:G:H21	1:D:6:G:H1	10	0.14
(2,37)	1:D:5:G:H21	1:A:6:G:H1	10	0.14
(2,37)	1:D:5:G:H21	1:B:6:G:H1	10	0.14
(2,37)	1:D:5:G:H21	1:C:6:G:H1	10	0.14
(2,37)	1:D:5:G:H21	1:D:6:G:H1	10	0.14
(2,37)	1:A:5:G:H21	1:A:6:G:H1	11	0.14
(2,37)	1:A:5:G:H21	1:B:6:G:H1	11	0.14
(2,37)	1:A:5:G:H21	1:C:6:G:H1	11	0.14
(2,37)	1:A:5:G:H21	1:D:6:G:H1	11	0.14
(2,37)	1:B:5:G:H21	1:A:6:G:H1	11	0.14
(2,37)	1:B:5:G:H21	1:B:6:G:H1	11	0.14
(2,37)	1:B:5:G:H21	1:C:6:G:H1	11	0.14
(2,37)	1:B:5:G:H21	1:D:6:G:H1	11	0.14
(2,37)	1:C:5:G:H21	1:A:6:G:H1	11	0.14
(2,37)	1:C:5:G:H21	1:B:6:G:H1	11	0.14
(2,37)	1:C:5:G:H21	1:C:6:G:H1	11	0.14
(2,37)	1:C:5:G:H21	1:D:6:G:H1	11	0.14
(2,37)	1:D:5:G:H21	1:A:6:G:H1	11	0.14
(2,37)	1:D:5:G:H21	1:B:6:G:H1	11	0.14
(2,37)	1:D:5:G:H21	1:C:6:G:H1	11	0.14
(2,37)	1:D:5:G:H21	1:D:6:G:H1	11	0.14
(2,21)	1:A:3:G:H21	1:A:4:U:H1'	9	0.14
(2,21)	1:A:3:G:H21	1:B:4:U:H1'	9	0.14
(2,21)	1:A:3:G:H21	1:C:4:U:H1'	9	0.14
(2,21)	1:A:3:G:H21	1:D:4:U:H1'	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,21)	1:B:3:G:H21	1:A:4:U:H1'	9	0.14
(2,21)	1:B:3:G:H21	1:B:4:U:H1'	9	0.14
(2,21)	1:B:3:G:H21	1:C:4:U:H1'	9	0.14
(2,21)	1:B:3:G:H21	1:D:4:U:H1'	9	0.14
(2,21)	1:C:3:G:H21	1:A:4:U:H1'	9	0.14
(2,21)	1:C:3:G:H21	1:B:4:U:H1'	9	0.14
(2,21)	1:C:3:G:H21	1:C:4:U:H1'	9	0.14
(2,21)	1:C:3:G:H21	1:D:4:U:H1'	9	0.14
(2,21)	1:D:3:G:H21	1:A:4:U:H1'	9	0.14
(2,21)	1:D:3:G:H21	1:B:4:U:H1'	9	0.14
(2,21)	1:D:3:G:H21	1:C:4:U:H1'	9	0.14
(2,21)	1:D:3:G:H21	1:D:4:U:H1'	9	0.14
(2,13)	1:A:2:G:H22	1:A:1:U:H5	6	0.14
(2,13)	1:A:2:G:H22	1:B:1:U:H5	6	0.14
(2,13)	1:A:2:G:H22	1:C:1:U:H5	6	0.14
(2,13)	1:A:2:G:H22	1:D:1:U:H5	6	0.14
(2,13)	1:B:2:G:H22	1:A:1:U:H5	6	0.14
(2,13)	1:B:2:G:H22	1:B:1:U:H5	6	0.14
(2,13)	1:B:2:G:H22	1:C:1:U:H5	6	0.14
(2,13)	1:B:2:G:H22	1:D:1:U:H5	6	0.14
(2,13)	1:C:2:G:H22	1:A:1:U:H5	6	0.14
(2,13)	1:C:2:G:H22	1:B:1:U:H5	6	0.14
(2,13)	1:C:2:G:H22	1:C:1:U:H5	6	0.14
(2,13)	1:C:2:G:H22	1:D:1:U:H5	6	0.14
(2,13)	1:D:2:G:H22	1:A:1:U:H5	6	0.14
(2,13)	1:D:2:G:H22	1:B:1:U:H5	6	0.14
(2,13)	1:D:2:G:H22	1:C:1:U:H5	6	0.14
(2,13)	1:D:2:G:H22	1:D:1:U:H5	6	0.14
(2,1)	1:A:1:U:H5	1:A:1:U:H3	7	0.14
(2,1)	1:A:1:U:H5	1:B:1:U:H3	7	0.14
(2,1)	1:A:1:U:H5	1:C:1:U:H3	7	0.14
(2,1)	1:A:1:U:H5	1:D:1:U:H3	7	0.14
(2,1)	1:B:1:U:H5	1:A:1:U:H3	7	0.14
(2,1)	1:B:1:U:H5	1:B:1:U:H3	7	0.14
(2,1)	1:B:1:U:H5	1:C:1:U:H3	7	0.14
(2,1)	1:B:1:U:H5	1:D:1:U:H3	7	0.14
(2,1)	1:C:1:U:H5	1:A:1:U:H3	7	0.14
(2,1)	1:C:1:U:H5	1:B:1:U:H3	7	0.14
(2,1)	1:C:1:U:H5	1:C:1:U:H3	7	0.14
(2,1)	1:C:1:U:H5	1:D:1:U:H3	7	0.14
(2,1)	1:D:1:U:H5	1:A:1:U:H3	7	0.14
(2,1)	1:D:1:U:H5	1:B:1:U:H3	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1)	1:D:1:U:H5	1:C:1:U:H3	7	0.14
(2,1)	1:D:1:U:H5	1:D:1:U:H3	7	0.14
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	3	0.14
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	3	0.14
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	3	0.14
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	3	0.14
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	3	0.14
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	3	0.14
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	3	0.14
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	3	0.14
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	3	0.14
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	3	0.14
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	3	0.14
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	3	0.14
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	3	0.14
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	3	0.14
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	3	0.14
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	3	0.14
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	3	0.14
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	3	0.14
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	3	0.14
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	3	0.14
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	3	0.14
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	3	0.14
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	3	0.14
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	3	0.14
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	3	0.14
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	3	0.14
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	3	0.14
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	3	0.14
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	3	0.14
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	3	0.14
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	3	0.14
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	3	0.14
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	4	0.14
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	4	0.14
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	4	0.14
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	4	0.14
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	4	0.14
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	4	0.14
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	4	0.14
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	4	0.14
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	4	0.14
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	4	0.14
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	4	0.14
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	4	0.14
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	4	0.14
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	4	0.14
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	4	0.14
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	4	0.14
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	4	0.14
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	4	0.14
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	4	0.14
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	4	0.14
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	4	0.14
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	4	0.14
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	4	0.14
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	4	0.14
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	4	0.14
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	4	0.14
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	4	0.14
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	4	0.14
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	4	0.14
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	4	0.14
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	4	0.14
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	7	0.14
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	7	0.14
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	7	0.14
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	7	0.14
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	7	0.14
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	7	0.14
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	7	0.14
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	7	0.14
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	7	0.14
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	7	0.14
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	7	0.14
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	7	0.14
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	7	0.14
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	7	0.14
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	7	0.14
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	7	0.14
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	7	0.14
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	7	0.14
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	7	0.14
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	7	0.14
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	7	0.14
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	7	0.14
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	7	0.14
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	7	0.14
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	7	0.14
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	7	0.14
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	7	0.14
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	7	0.14
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	7	0.14
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	7	0.14
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	7	0.14
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	14	0.14
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	14	0.14
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	14	0.14
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	14	0.14
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	14	0.14
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	14	0.14
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	14	0.14
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	14	0.14
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	14	0.14
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	14	0.14
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	14	0.14
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	14	0.14
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	14	0.14
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	14	0.14
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	14	0.14
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	14	0.14
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	14	0.14
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	14	0.14
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	14	0.14
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	14	0.14
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	14	0.14
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	14	0.14
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	14	0.14
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	14	0.14
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	14	0.14
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	14	0.14
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	14	0.14
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	14	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	14	0.14
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	14	0.14
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	14	0.14
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	14	0.14
(1,68)	1:A:2:G:H5''	1:A:2:G:H3'	12	0.14
(1,68)	1:A:2:G:H5''	1:B:2:G:H3'	12	0.14
(1,68)	1:A:2:G:H5''	1:C:2:G:H3'	12	0.14
(1,68)	1:A:2:G:H5''	1:D:2:G:H3'	12	0.14
(1,68)	1:B:2:G:H5''	1:A:2:G:H3'	12	0.14
(1,68)	1:B:2:G:H5''	1:B:2:G:H3'	12	0.14
(1,68)	1:B:2:G:H5''	1:C:2:G:H3'	12	0.14
(1,68)	1:B:2:G:H5''	1:D:2:G:H3'	12	0.14
(1,68)	1:C:2:G:H5''	1:A:2:G:H3'	12	0.14
(1,68)	1:C:2:G:H5''	1:B:2:G:H3'	12	0.14
(1,68)	1:C:2:G:H5''	1:C:2:G:H3'	12	0.14
(1,68)	1:C:2:G:H5''	1:D:2:G:H3'	12	0.14
(1,68)	1:D:2:G:H5''	1:A:2:G:H3'	12	0.14
(1,68)	1:D:2:G:H5''	1:B:2:G:H3'	12	0.14
(1,68)	1:D:2:G:H5''	1:C:2:G:H3'	12	0.14
(1,68)	1:D:2:G:H5''	1:D:2:G:H3'	12	0.14
(1,68)	1:A:2:G:H5'	1:A:2:G:H3'	12	0.14
(1,68)	1:A:2:G:H5'	1:B:2:G:H3'	12	0.14
(1,68)	1:A:2:G:H5'	1:C:2:G:H3'	12	0.14
(1,68)	1:A:2:G:H5'	1:D:2:G:H3'	12	0.14
(1,68)	1:B:2:G:H5'	1:A:2:G:H3'	12	0.14
(1,68)	1:B:2:G:H5'	1:B:2:G:H3'	12	0.14
(1,68)	1:B:2:G:H5'	1:C:2:G:H3'	12	0.14
(1,68)	1:B:2:G:H5'	1:D:2:G:H3'	12	0.14
(1,68)	1:C:2:G:H5'	1:A:2:G:H3'	12	0.14
(1,68)	1:C:2:G:H5'	1:B:2:G:H3'	12	0.14
(1,68)	1:C:2:G:H5'	1:C:2:G:H3'	12	0.14
(1,68)	1:C:2:G:H5'	1:D:2:G:H3'	12	0.14
(1,68)	1:D:2:G:H5'	1:A:2:G:H3'	12	0.14
(1,68)	1:D:2:G:H5'	1:B:2:G:H3'	12	0.14
(1,68)	1:D:2:G:H5'	1:C:2:G:H3'	12	0.14
(1,68)	1:D:2:G:H5'	1:D:2:G:H3'	12	0.14
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	4	0.14
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	4	0.14
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	4	0.14
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	4	0.14
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	4	0.14
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	4	0.14
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	4	0.14
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	4	0.14
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	4	0.14
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	4	0.14
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	4	0.14
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	4	0.14
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	4	0.14
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	4	0.14
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	4	0.14
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	4	0.14
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	4	0.14
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	4	0.14
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	4	0.14
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	4	0.14
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	4	0.14
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	4	0.14
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	4	0.14
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	4	0.14
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	4	0.14
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	4	0.14
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	4	0.14
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	4	0.14
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	4	0.14
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	4	0.14
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	4	0.14
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	5	0.14
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	5	0.14
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	5	0.14
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	5	0.14
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	5	0.14
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	5	0.14
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	5	0.14
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	5	0.14
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	5	0.14
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	5	0.14
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	5	0.14
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	5	0.14
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	5	0.14
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	5	0.14
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	5	0.14
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	5	0.14
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	5	0.14
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	5	0.14
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	5	0.14
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	5	0.14
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	5	0.14
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	5	0.14
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	5	0.14
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	5	0.14
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	5	0.14
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	5	0.14
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	5	0.14
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	5	0.14
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	5	0.14
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	5	0.14
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	5	0.14
(1,44)	1:A:3:G:H5''	1:A:3:G:H8	10	0.14
(1,44)	1:A:3:G:H5''	1:B:3:G:H8	10	0.14
(1,44)	1:A:3:G:H5''	1:C:3:G:H8	10	0.14
(1,44)	1:A:3:G:H5''	1:D:3:G:H8	10	0.14
(1,44)	1:B:3:G:H5''	1:A:3:G:H8	10	0.14
(1,44)	1:B:3:G:H5''	1:B:3:G:H8	10	0.14
(1,44)	1:B:3:G:H5''	1:C:3:G:H8	10	0.14
(1,44)	1:B:3:G:H5''	1:D:3:G:H8	10	0.14
(1,44)	1:C:3:G:H5''	1:A:3:G:H8	10	0.14
(1,44)	1:C:3:G:H5''	1:B:3:G:H8	10	0.14
(1,44)	1:C:3:G:H5''	1:C:3:G:H8	10	0.14
(1,44)	1:C:3:G:H5''	1:D:3:G:H8	10	0.14
(1,44)	1:D:3:G:H5''	1:A:3:G:H8	10	0.14
(1,44)	1:D:3:G:H5''	1:B:3:G:H8	10	0.14
(1,44)	1:D:3:G:H5''	1:C:3:G:H8	10	0.14
(1,44)	1:D:3:G:H5''	1:D:3:G:H8	10	0.14
(1,44)	1:A:3:G:H5'	1:A:3:G:H8	10	0.14
(1,44)	1:A:3:G:H5'	1:B:3:G:H8	10	0.14
(1,44)	1:A:3:G:H5'	1:C:3:G:H8	10	0.14
(1,44)	1:A:3:G:H5'	1:D:3:G:H8	10	0.14
(1,44)	1:B:3:G:H5'	1:A:3:G:H8	10	0.14
(1,44)	1:B:3:G:H5'	1:B:3:G:H8	10	0.14
(1,44)	1:B:3:G:H5'	1:C:3:G:H8	10	0.14
(1,44)	1:B:3:G:H5'	1:D:3:G:H8	10	0.14
(1,44)	1:C:3:G:H5'	1:A:3:G:H8	10	0.14
(1,44)	1:C:3:G:H5'	1:B:3:G:H8	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:C:3:G:H5'	1:C:3:G:H8	10	0.14
(1,44)	1:C:3:G:H5'	1:D:3:G:H8	10	0.14
(1,44)	1:D:3:G:H5'	1:A:3:G:H8	10	0.14
(1,44)	1:D:3:G:H5'	1:B:3:G:H8	10	0.14
(1,44)	1:D:3:G:H5'	1:C:3:G:H8	10	0.14
(1,44)	1:D:3:G:H5'	1:D:3:G:H8	10	0.14
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	4	0.14
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	4	0.14
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	4	0.14
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	4	0.14
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	4	0.14
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	4	0.14
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	4	0.14
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	4	0.14
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	4	0.14
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	4	0.14
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	4	0.14
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	4	0.14
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	4	0.14
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	4	0.14
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	4	0.14
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	4	0.14
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	4	0.14
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	4	0.14
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	4	0.14
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	4	0.14
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	4	0.14
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	4	0.14
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	4	0.14
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	4	0.14
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	4	0.14
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	4	0.14
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	4	0.14
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	4	0.14
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	4	0.14
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	4	0.14
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	4	0.14
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	4	0.14
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	5	0.14
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	5	0.14
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	5	0.14
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	5	0.14
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	5	0.14
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	5	0.14
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	5	0.14
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	5	0.14
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	5	0.14
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	5	0.14
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	5	0.14
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	5	0.14
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	5	0.14
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	5	0.14
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	5	0.14
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	5	0.14
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	5	0.14
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	5	0.14
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	5	0.14
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	5	0.14
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	5	0.14
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	5	0.14
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	5	0.14
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	5	0.14
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	5	0.14
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	5	0.14
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	5	0.14
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	5	0.14
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	5	0.14
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	5	0.14
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	5	0.14
(1,43)	1:A:3:G:H8	1:A:3:G:H5'	10	0.14
(1,43)	1:A:3:G:H8	1:B:3:G:H5'	10	0.14
(1,43)	1:A:3:G:H8	1:C:3:G:H5'	10	0.14
(1,43)	1:A:3:G:H8	1:D:3:G:H5'	10	0.14
(1,43)	1:B:3:G:H8	1:A:3:G:H5'	10	0.14
(1,43)	1:B:3:G:H8	1:B:3:G:H5'	10	0.14
(1,43)	1:B:3:G:H8	1:C:3:G:H5'	10	0.14
(1,43)	1:B:3:G:H8	1:D:3:G:H5'	10	0.14
(1,43)	1:C:3:G:H8	1:A:3:G:H5'	10	0.14
(1,43)	1:C:3:G:H8	1:B:3:G:H5'	10	0.14
(1,43)	1:C:3:G:H8	1:C:3:G:H5'	10	0.14
(1,43)	1:C:3:G:H8	1:D:3:G:H5'	10	0.14
(1,43)	1:D:3:G:H8	1:A:3:G:H5'	10	0.14
(1,43)	1:D:3:G:H8	1:B:3:G:H5'	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:D:3:G:H8	1:C:3:G:H5'	10	0.14
(1,43)	1:D:3:G:H8	1:D:3:G:H5'	10	0.14
(1,43)	1:A:3:G:H8	1:A:3:G:H5''	10	0.14
(1,43)	1:A:3:G:H8	1:B:3:G:H5''	10	0.14
(1,43)	1:A:3:G:H8	1:C:3:G:H5''	10	0.14
(1,43)	1:A:3:G:H8	1:D:3:G:H5''	10	0.14
(1,43)	1:B:3:G:H8	1:A:3:G:H5''	10	0.14
(1,43)	1:B:3:G:H8	1:B:3:G:H5''	10	0.14
(1,43)	1:B:3:G:H8	1:C:3:G:H5''	10	0.14
(1,43)	1:B:3:G:H8	1:D:3:G:H5''	10	0.14
(1,43)	1:C:3:G:H8	1:A:3:G:H5''	10	0.14
(1,43)	1:C:3:G:H8	1:B:3:G:H5''	10	0.14
(1,43)	1:C:3:G:H8	1:C:3:G:H5''	10	0.14
(1,43)	1:C:3:G:H8	1:D:3:G:H5''	10	0.14
(1,43)	1:D:3:G:H8	1:A:3:G:H5''	10	0.14
(1,43)	1:D:3:G:H8	1:B:3:G:H5''	10	0.14
(1,43)	1:D:3:G:H8	1:C:3:G:H5''	10	0.14
(1,43)	1:D:3:G:H8	1:D:3:G:H5''	10	0.14
(1,21)	1:A:5:G:H8	1:A:5:G:H3'	1	0.14
(1,21)	1:A:5:G:H8	1:B:5:G:H3'	1	0.14
(1,21)	1:A:5:G:H8	1:C:5:G:H3'	1	0.14
(1,21)	1:A:5:G:H8	1:D:5:G:H3'	1	0.14
(1,21)	1:B:5:G:H8	1:A:5:G:H3'	1	0.14
(1,21)	1:B:5:G:H8	1:B:5:G:H3'	1	0.14
(1,21)	1:B:5:G:H8	1:C:5:G:H3'	1	0.14
(1,21)	1:B:5:G:H8	1:D:5:G:H3'	1	0.14
(1,21)	1:C:5:G:H8	1:A:5:G:H3'	1	0.14
(1,21)	1:C:5:G:H8	1:B:5:G:H3'	1	0.14
(1,21)	1:C:5:G:H8	1:C:5:G:H3'	1	0.14
(1,21)	1:C:5:G:H8	1:D:5:G:H3'	1	0.14
(1,21)	1:D:5:G:H8	1:A:5:G:H3'	1	0.14
(1,21)	1:D:5:G:H8	1:B:5:G:H3'	1	0.14
(1,21)	1:D:5:G:H8	1:C:5:G:H3'	1	0.14
(1,21)	1:D:5:G:H8	1:D:5:G:H3'	1	0.14
(2,23)	1:A:4:U:H5	1:A:4:U:H3	3	0.13
(2,23)	1:A:4:U:H5	1:B:4:U:H3	3	0.13
(2,23)	1:A:4:U:H5	1:C:4:U:H3	3	0.13
(2,23)	1:A:4:U:H5	1:D:4:U:H3	3	0.13
(2,23)	1:B:4:U:H5	1:A:4:U:H3	3	0.13
(2,23)	1:B:4:U:H5	1:B:4:U:H3	3	0.13
(2,23)	1:B:4:U:H5	1:C:4:U:H3	3	0.13
(2,23)	1:B:4:U:H5	1:D:4:U:H3	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,23)	1:C:4:U:H5	1:A:4:U:H3	3	0.13
(2,23)	1:C:4:U:H5	1:B:4:U:H3	3	0.13
(2,23)	1:C:4:U:H5	1:C:4:U:H3	3	0.13
(2,23)	1:C:4:U:H5	1:D:4:U:H3	3	0.13
(2,23)	1:D:4:U:H5	1:A:4:U:H3	3	0.13
(2,23)	1:D:4:U:H5	1:B:4:U:H3	3	0.13
(2,23)	1:D:4:U:H5	1:C:4:U:H3	3	0.13
(2,23)	1:D:4:U:H5	1:D:4:U:H3	3	0.13
(2,23)	1:A:4:U:H5	1:A:4:U:H3	4	0.13
(2,23)	1:A:4:U:H5	1:B:4:U:H3	4	0.13
(2,23)	1:A:4:U:H5	1:C:4:U:H3	4	0.13
(2,23)	1:A:4:U:H5	1:D:4:U:H3	4	0.13
(2,23)	1:B:4:U:H5	1:A:4:U:H3	4	0.13
(2,23)	1:B:4:U:H5	1:B:4:U:H3	4	0.13
(2,23)	1:B:4:U:H5	1:C:4:U:H3	4	0.13
(2,23)	1:B:4:U:H5	1:D:4:U:H3	4	0.13
(2,23)	1:C:4:U:H5	1:A:4:U:H3	4	0.13
(2,23)	1:C:4:U:H5	1:B:4:U:H3	4	0.13
(2,23)	1:C:4:U:H5	1:C:4:U:H3	4	0.13
(2,23)	1:C:4:U:H5	1:D:4:U:H3	4	0.13
(2,23)	1:D:4:U:H5	1:A:4:U:H3	4	0.13
(2,23)	1:D:4:U:H5	1:B:4:U:H3	4	0.13
(2,23)	1:D:4:U:H5	1:C:4:U:H3	4	0.13
(2,23)	1:D:4:U:H5	1:D:4:U:H3	4	0.13
(2,21)	1:A:3:G:H21	1:A:4:U:H1'	3	0.13
(2,21)	1:A:3:G:H21	1:B:4:U:H1'	3	0.13
(2,21)	1:A:3:G:H21	1:C:4:U:H1'	3	0.13
(2,21)	1:A:3:G:H21	1:D:4:U:H1'	3	0.13
(2,21)	1:B:3:G:H21	1:A:4:U:H1'	3	0.13
(2,21)	1:B:3:G:H21	1:B:4:U:H1'	3	0.13
(2,21)	1:B:3:G:H21	1:C:4:U:H1'	3	0.13
(2,21)	1:B:3:G:H21	1:D:4:U:H1'	3	0.13
(2,21)	1:C:3:G:H21	1:A:4:U:H1'	3	0.13
(2,21)	1:C:3:G:H21	1:B:4:U:H1'	3	0.13
(2,21)	1:C:3:G:H21	1:C:4:U:H1'	3	0.13
(2,21)	1:C:3:G:H21	1:D:4:U:H1'	3	0.13
(2,21)	1:D:3:G:H21	1:A:4:U:H1'	3	0.13
(2,21)	1:D:3:G:H21	1:B:4:U:H1'	3	0.13
(2,21)	1:D:3:G:H21	1:C:4:U:H1'	3	0.13
(2,21)	1:D:3:G:H21	1:D:4:U:H1'	3	0.13
(2,1)	1:A:1:U:H5	1:A:1:U:H3	5	0.13
(2,1)	1:A:1:U:H5	1:B:1:U:H3	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1)	1:A:1:U:H5	1:C:1:U:H3	5	0.13
(2,1)	1:A:1:U:H5	1:D:1:U:H3	5	0.13
(2,1)	1:B:1:U:H5	1:A:1:U:H3	5	0.13
(2,1)	1:B:1:U:H5	1:B:1:U:H3	5	0.13
(2,1)	1:B:1:U:H5	1:C:1:U:H3	5	0.13
(2,1)	1:B:1:U:H5	1:D:1:U:H3	5	0.13
(2,1)	1:C:1:U:H5	1:A:1:U:H3	5	0.13
(2,1)	1:C:1:U:H5	1:B:1:U:H3	5	0.13
(2,1)	1:C:1:U:H5	1:C:1:U:H3	5	0.13
(2,1)	1:C:1:U:H5	1:D:1:U:H3	5	0.13
(2,1)	1:D:1:U:H5	1:A:1:U:H3	5	0.13
(2,1)	1:D:1:U:H5	1:B:1:U:H3	5	0.13
(2,1)	1:D:1:U:H5	1:C:1:U:H3	5	0.13
(2,1)	1:D:1:U:H5	1:D:1:U:H3	5	0.13
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	2	0.13
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	2	0.13
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	2	0.13
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	2	0.13
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	2	0.13
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	2	0.13
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	2	0.13
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	2	0.13
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	2	0.13
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	2	0.13
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	2	0.13
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	2	0.13
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	2	0.13
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	2	0.13
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	2	0.13
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	2	0.13
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	2	0.13
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	2	0.13
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	2	0.13
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	2	0.13
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	2	0.13
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	2	0.13
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	2	0.13
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	2	0.13
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	2	0.13
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	2	0.13
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	2	0.13
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	2	0.13
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	2	0.13
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	2	0.13
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	2	0.13
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	5	0.13
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	5	0.13
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	5	0.13
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	5	0.13
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	5	0.13
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	5	0.13
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	5	0.13
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	5	0.13
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	5	0.13
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	5	0.13
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	5	0.13
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	5	0.13
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	5	0.13
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	5	0.13
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	5	0.13
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	5	0.13
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	5	0.13
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	5	0.13
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	5	0.13
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	5	0.13
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	5	0.13
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	5	0.13
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	5	0.13
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	5	0.13
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	5	0.13
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	5	0.13
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	5	0.13
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	5	0.13
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	5	0.13
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	5	0.13
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	5	0.13
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	5	0.13
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	6	0.13
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	6	0.13
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	6	0.13
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	6	0.13
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	6	0.13
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	6	0.13
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	6	0.13
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	6	0.13
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	6	0.13
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	6	0.13
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	6	0.13
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	6	0.13
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	6	0.13
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	6	0.13
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	6	0.13
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	6	0.13
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	6	0.13
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	6	0.13
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	6	0.13
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	6	0.13
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	6	0.13
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	6	0.13
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	6	0.13
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	6	0.13
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	6	0.13
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	6	0.13
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	6	0.13
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	6	0.13
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	6	0.13
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	6	0.13
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	6	0.13
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	11	0.13
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	11	0.13
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	11	0.13
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	11	0.13
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	11	0.13
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	11	0.13
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	11	0.13
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	11	0.13
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	11	0.13
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	11	0.13
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	11	0.13
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	11	0.13
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	11	0.13
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	11	0.13
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	11	0.13
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	11	0.13
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	11	0.13
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	11	0.13
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	11	0.13
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	11	0.13
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	11	0.13
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	11	0.13
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	11	0.13
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	11	0.13
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	11	0.13
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	11	0.13
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	11	0.13
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	11	0.13
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	11	0.13
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	11	0.13
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	11	0.13
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	12	0.13
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	12	0.13
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	12	0.13
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	12	0.13
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	12	0.13
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	12	0.13
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	12	0.13
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	12	0.13
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	12	0.13
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	12	0.13
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	12	0.13
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	12	0.13
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	12	0.13
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	12	0.13
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	12	0.13
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	12	0.13
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	12	0.13
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	12	0.13
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	12	0.13
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	12	0.13
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	12	0.13
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	12	0.13
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	12	0.13
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	12	0.13
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	12	0.13
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	12	0.13
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	12	0.13
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	12	0.13
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	12	0.13
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	12	0.13
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	12	0.13
(1,68)	1:A:2:G:H5''	1:A:2:G:H3'	4	0.13
(1,68)	1:A:2:G:H5''	1:B:2:G:H3'	4	0.13
(1,68)	1:A:2:G:H5''	1:C:2:G:H3'	4	0.13
(1,68)	1:A:2:G:H5''	1:D:2:G:H3'	4	0.13
(1,68)	1:B:2:G:H5''	1:A:2:G:H3'	4	0.13
(1,68)	1:B:2:G:H5''	1:B:2:G:H3'	4	0.13
(1,68)	1:B:2:G:H5''	1:C:2:G:H3'	4	0.13
(1,68)	1:B:2:G:H5''	1:D:2:G:H3'	4	0.13
(1,68)	1:C:2:G:H5''	1:A:2:G:H3'	4	0.13
(1,68)	1:C:2:G:H5''	1:B:2:G:H3'	4	0.13
(1,68)	1:C:2:G:H5''	1:C:2:G:H3'	4	0.13
(1,68)	1:C:2:G:H5''	1:D:2:G:H3'	4	0.13
(1,68)	1:D:2:G:H5''	1:A:2:G:H3'	4	0.13
(1,68)	1:D:2:G:H5''	1:B:2:G:H3'	4	0.13
(1,68)	1:D:2:G:H5''	1:C:2:G:H3'	4	0.13
(1,68)	1:D:2:G:H5''	1:D:2:G:H3'	4	0.13
(1,68)	1:A:2:G:H5'	1:A:2:G:H3'	4	0.13
(1,68)	1:A:2:G:H5'	1:B:2:G:H3'	4	0.13
(1,68)	1:A:2:G:H5'	1:C:2:G:H3'	4	0.13
(1,68)	1:A:2:G:H5'	1:D:2:G:H3'	4	0.13
(1,68)	1:B:2:G:H5'	1:A:2:G:H3'	4	0.13
(1,68)	1:B:2:G:H5'	1:B:2:G:H3'	4	0.13
(1,68)	1:B:2:G:H5'	1:C:2:G:H3'	4	0.13
(1,68)	1:B:2:G:H5'	1:D:2:G:H3'	4	0.13
(1,68)	1:C:2:G:H5'	1:A:2:G:H3'	4	0.13
(1,68)	1:C:2:G:H5'	1:B:2:G:H3'	4	0.13
(1,68)	1:C:2:G:H5'	1:C:2:G:H3'	4	0.13
(1,68)	1:C:2:G:H5'	1:D:2:G:H3'	4	0.13
(1,68)	1:D:2:G:H5'	1:A:2:G:H3'	4	0.13
(1,68)	1:D:2:G:H5'	1:B:2:G:H3'	4	0.13
(1,68)	1:D:2:G:H5'	1:C:2:G:H3'	4	0.13
(1,68)	1:D:2:G:H5'	1:D:2:G:H3'	4	0.13
(1,35)	1:A:7:U:H6	1:A:7:U:H2'	10	0.13
(1,35)	1:A:7:U:H6	1:B:7:U:H2'	10	0.13
(1,35)	1:A:7:U:H6	1:C:7:U:H2'	10	0.13
(1,35)	1:A:7:U:H6	1:D:7:U:H2'	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,35)	1:B:7:U:H6	1:A:7:U:H2'	10	0.13
(1,35)	1:B:7:U:H6	1:B:7:U:H2'	10	0.13
(1,35)	1:B:7:U:H6	1:C:7:U:H2'	10	0.13
(1,35)	1:B:7:U:H6	1:D:7:U:H2'	10	0.13
(1,35)	1:C:7:U:H6	1:A:7:U:H2'	10	0.13
(1,35)	1:C:7:U:H6	1:B:7:U:H2'	10	0.13
(1,35)	1:C:7:U:H6	1:C:7:U:H2'	10	0.13
(1,35)	1:C:7:U:H6	1:D:7:U:H2'	10	0.13
(1,35)	1:D:7:U:H6	1:A:7:U:H2'	10	0.13
(1,35)	1:D:7:U:H6	1:B:7:U:H2'	10	0.13
(1,35)	1:D:7:U:H6	1:C:7:U:H2'	10	0.13
(1,35)	1:D:7:U:H6	1:D:7:U:H2'	10	0.13
(2,21)	1:A:3:G:H21	1:A:4:U:H1'	2	0.12
(2,21)	1:A:3:G:H21	1:B:4:U:H1'	2	0.12
(2,21)	1:A:3:G:H21	1:C:4:U:H1'	2	0.12
(2,21)	1:A:3:G:H21	1:D:4:U:H1'	2	0.12
(2,21)	1:B:3:G:H21	1:A:4:U:H1'	2	0.12
(2,21)	1:B:3:G:H21	1:B:4:U:H1'	2	0.12
(2,21)	1:B:3:G:H21	1:C:4:U:H1'	2	0.12
(2,21)	1:B:3:G:H21	1:D:4:U:H1'	2	0.12
(2,21)	1:C:3:G:H21	1:A:4:U:H1'	2	0.12
(2,21)	1:C:3:G:H21	1:B:4:U:H1'	2	0.12
(2,21)	1:C:3:G:H21	1:C:4:U:H1'	2	0.12
(2,21)	1:C:3:G:H21	1:D:4:U:H1'	2	0.12
(2,21)	1:D:3:G:H21	1:A:4:U:H1'	2	0.12
(2,21)	1:D:3:G:H21	1:B:4:U:H1'	2	0.12
(2,21)	1:D:3:G:H21	1:C:4:U:H1'	2	0.12
(2,21)	1:D:3:G:H21	1:D:4:U:H1'	2	0.12
(2,21)	1:A:3:G:H21	1:A:4:U:H1'	10	0.12
(2,21)	1:A:3:G:H21	1:B:4:U:H1'	10	0.12
(2,21)	1:A:3:G:H21	1:C:4:U:H1'	10	0.12
(2,21)	1:A:3:G:H21	1:D:4:U:H1'	10	0.12
(2,21)	1:B:3:G:H21	1:A:4:U:H1'	10	0.12
(2,21)	1:B:3:G:H21	1:B:4:U:H1'	10	0.12
(2,21)	1:B:3:G:H21	1:C:4:U:H1'	10	0.12
(2,21)	1:B:3:G:H21	1:D:4:U:H1'	10	0.12
(2,21)	1:C:3:G:H21	1:A:4:U:H1'	10	0.12
(2,21)	1:C:3:G:H21	1:B:4:U:H1'	10	0.12
(2,21)	1:C:3:G:H21	1:C:4:U:H1'	10	0.12
(2,21)	1:C:3:G:H21	1:D:4:U:H1'	10	0.12
(2,21)	1:D:3:G:H21	1:A:4:U:H1'	10	0.12
(2,21)	1:D:3:G:H21	1:B:4:U:H1'	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,21)	1:D:3:G:H21	1:C:4:U:H1'	10	0.12
(2,21)	1:D:3:G:H21	1:D:4:U:H1'	10	0.12
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	1	0.12
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	1	0.12
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	1	0.12
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	1	0.12
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	1	0.12
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	1	0.12
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	1	0.12
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	1	0.12
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	1	0.12
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	1	0.12
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	1	0.12
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	1	0.12
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	1	0.12
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	1	0.12
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	1	0.12
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	1	0.12
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	1	0.12
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	1	0.12
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	1	0.12
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	1	0.12
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	1	0.12
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	1	0.12
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	1	0.12
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	1	0.12
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	1	0.12
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	1	0.12
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	1	0.12
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	1	0.12
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	1	0.12
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	1	0.12
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	1	0.12
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	1	0.12
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	15	0.12
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	15	0.12
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	15	0.12
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	15	0.12
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	15	0.12
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	15	0.12
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	15	0.12
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	15	0.12
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	15	0.12
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	15	0.12
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	15	0.12
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	15	0.12
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	15	0.12
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	15	0.12
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	15	0.12
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	15	0.12
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	15	0.12
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	15	0.12
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	15	0.12
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	15	0.12
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	15	0.12
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	15	0.12
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	15	0.12
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	15	0.12
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	15	0.12
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	15	0.12
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	15	0.12
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	15	0.12
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	15	0.12
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	15	0.12
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	15	0.12
(1,68)	1:A:2:G:H5''	1:A:2:G:H3'	2	0.12
(1,68)	1:A:2:G:H5''	1:B:2:G:H3'	2	0.12
(1,68)	1:A:2:G:H5''	1:C:2:G:H3'	2	0.12
(1,68)	1:A:2:G:H5''	1:D:2:G:H3'	2	0.12
(1,68)	1:B:2:G:H5''	1:A:2:G:H3'	2	0.12
(1,68)	1:B:2:G:H5''	1:B:2:G:H3'	2	0.12
(1,68)	1:B:2:G:H5''	1:C:2:G:H3'	2	0.12
(1,68)	1:B:2:G:H5''	1:D:2:G:H3'	2	0.12
(1,68)	1:C:2:G:H5''	1:A:2:G:H3'	2	0.12
(1,68)	1:C:2:G:H5''	1:B:2:G:H3'	2	0.12
(1,68)	1:C:2:G:H5''	1:C:2:G:H3'	2	0.12
(1,68)	1:C:2:G:H5''	1:D:2:G:H3'	2	0.12
(1,68)	1:D:2:G:H5''	1:A:2:G:H3'	2	0.12
(1,68)	1:D:2:G:H5''	1:B:2:G:H3'	2	0.12
(1,68)	1:D:2:G:H5''	1:C:2:G:H3'	2	0.12
(1,68)	1:D:2:G:H5''	1:D:2:G:H3'	2	0.12
(1,68)	1:A:2:G:H5'	1:A:2:G:H3'	2	0.12
(1,68)	1:A:2:G:H5'	1:B:2:G:H3'	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,68)	1:A:2:G:H5'	1:C:2:G:H3'	2	0.12
(1,68)	1:A:2:G:H5'	1:D:2:G:H3'	2	0.12
(1,68)	1:B:2:G:H5'	1:A:2:G:H3'	2	0.12
(1,68)	1:B:2:G:H5'	1:B:2:G:H3'	2	0.12
(1,68)	1:B:2:G:H5'	1:C:2:G:H3'	2	0.12
(1,68)	1:B:2:G:H5'	1:D:2:G:H3'	2	0.12
(1,68)	1:C:2:G:H5'	1:A:2:G:H3'	2	0.12
(1,68)	1:C:2:G:H5'	1:B:2:G:H3'	2	0.12
(1,68)	1:C:2:G:H5'	1:C:2:G:H3'	2	0.12
(1,68)	1:C:2:G:H5'	1:D:2:G:H3'	2	0.12
(1,68)	1:D:2:G:H5'	1:A:2:G:H3'	2	0.12
(1,68)	1:D:2:G:H5'	1:B:2:G:H3'	2	0.12
(1,68)	1:D:2:G:H5'	1:C:2:G:H3'	2	0.12
(1,68)	1:D:2:G:H5'	1:D:2:G:H3'	2	0.12
(1,68)	1:A:2:G:H5''	1:A:2:G:H3'	10	0.12
(1,68)	1:A:2:G:H5''	1:B:2:G:H3'	10	0.12
(1,68)	1:A:2:G:H5''	1:C:2:G:H3'	10	0.12
(1,68)	1:A:2:G:H5''	1:D:2:G:H3'	10	0.12
(1,68)	1:B:2:G:H5''	1:A:2:G:H3'	10	0.12
(1,68)	1:B:2:G:H5''	1:B:2:G:H3'	10	0.12
(1,68)	1:B:2:G:H5''	1:C:2:G:H3'	10	0.12
(1,68)	1:B:2:G:H5''	1:D:2:G:H3'	10	0.12
(1,68)	1:C:2:G:H5''	1:A:2:G:H3'	10	0.12
(1,68)	1:C:2:G:H5''	1:B:2:G:H3'	10	0.12
(1,68)	1:C:2:G:H5''	1:C:2:G:H3'	10	0.12
(1,68)	1:C:2:G:H5''	1:D:2:G:H3'	10	0.12
(1,68)	1:D:2:G:H5''	1:A:2:G:H3'	10	0.12
(1,68)	1:D:2:G:H5''	1:B:2:G:H3'	10	0.12
(1,68)	1:D:2:G:H5''	1:C:2:G:H3'	10	0.12
(1,68)	1:D:2:G:H5''	1:D:2:G:H3'	10	0.12
(1,68)	1:A:2:G:H5'	1:A:2:G:H3'	10	0.12
(1,68)	1:A:2:G:H5'	1:B:2:G:H3'	10	0.12
(1,68)	1:A:2:G:H5'	1:C:2:G:H3'	10	0.12
(1,68)	1:A:2:G:H5'	1:D:2:G:H3'	10	0.12
(1,68)	1:B:2:G:H5'	1:A:2:G:H3'	10	0.12
(1,68)	1:B:2:G:H5'	1:B:2:G:H3'	10	0.12
(1,68)	1:B:2:G:H5'	1:C:2:G:H3'	10	0.12
(1,68)	1:B:2:G:H5'	1:D:2:G:H3'	10	0.12
(1,68)	1:C:2:G:H5'	1:A:2:G:H3'	10	0.12
(1,68)	1:C:2:G:H5'	1:B:2:G:H3'	10	0.12
(1,68)	1:C:2:G:H5'	1:C:2:G:H3'	10	0.12
(1,68)	1:C:2:G:H5'	1:D:2:G:H3'	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,68)	1:D:2:G:H5'	1:A:2:G:H3'	10	0.12
(1,68)	1:D:2:G:H5'	1:B:2:G:H3'	10	0.12
(1,68)	1:D:2:G:H5'	1:C:2:G:H3'	10	0.12
(1,68)	1:D:2:G:H5'	1:D:2:G:H3'	10	0.12
(1,68)	1:A:2:G:H5''	1:A:2:G:H3'	15	0.12
(1,68)	1:A:2:G:H5''	1:B:2:G:H3'	15	0.12
(1,68)	1:A:2:G:H5''	1:C:2:G:H3'	15	0.12
(1,68)	1:A:2:G:H5''	1:D:2:G:H3'	15	0.12
(1,68)	1:B:2:G:H5''	1:A:2:G:H3'	15	0.12
(1,68)	1:B:2:G:H5''	1:B:2:G:H3'	15	0.12
(1,68)	1:B:2:G:H5''	1:C:2:G:H3'	15	0.12
(1,68)	1:B:2:G:H5''	1:D:2:G:H3'	15	0.12
(1,68)	1:C:2:G:H5''	1:A:2:G:H3'	15	0.12
(1,68)	1:C:2:G:H5''	1:B:2:G:H3'	15	0.12
(1,68)	1:C:2:G:H5''	1:C:2:G:H3'	15	0.12
(1,68)	1:C:2:G:H5''	1:D:2:G:H3'	15	0.12
(1,68)	1:D:2:G:H5''	1:A:2:G:H3'	15	0.12
(1,68)	1:D:2:G:H5''	1:B:2:G:H3'	15	0.12
(1,68)	1:D:2:G:H5''	1:C:2:G:H3'	15	0.12
(1,68)	1:D:2:G:H5''	1:D:2:G:H3'	15	0.12
(1,68)	1:A:2:G:H5'	1:A:2:G:H3'	15	0.12
(1,68)	1:A:2:G:H5'	1:B:2:G:H3'	15	0.12
(1,68)	1:A:2:G:H5'	1:C:2:G:H3'	15	0.12
(1,68)	1:A:2:G:H5'	1:D:2:G:H3'	15	0.12
(1,68)	1:B:2:G:H5'	1:A:2:G:H3'	15	0.12
(1,68)	1:B:2:G:H5'	1:B:2:G:H3'	15	0.12
(1,68)	1:B:2:G:H5'	1:C:2:G:H3'	15	0.12
(1,68)	1:B:2:G:H5'	1:D:2:G:H3'	15	0.12
(1,68)	1:C:2:G:H5'	1:A:2:G:H3'	15	0.12
(1,68)	1:C:2:G:H5'	1:B:2:G:H3'	15	0.12
(1,68)	1:C:2:G:H5'	1:C:2:G:H3'	15	0.12
(1,68)	1:C:2:G:H5'	1:D:2:G:H3'	15	0.12
(1,68)	1:D:2:G:H5'	1:A:2:G:H3'	15	0.12
(1,68)	1:D:2:G:H5'	1:B:2:G:H3'	15	0.12
(1,68)	1:D:2:G:H5'	1:C:2:G:H3'	15	0.12
(1,68)	1:D:2:G:H5'	1:D:2:G:H3'	15	0.12
(2,37)	1:A:5:G:H21	1:A:6:G:H1	1	0.11
(2,37)	1:A:5:G:H21	1:B:6:G:H1	1	0.11
(2,37)	1:A:5:G:H21	1:C:6:G:H1	1	0.11
(2,37)	1:A:5:G:H21	1:D:6:G:H1	1	0.11
(2,37)	1:B:5:G:H21	1:A:6:G:H1	1	0.11
(2,37)	1:B:5:G:H21	1:B:6:G:H1	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,37)	1:B:5:G:H21	1:C:6:G:H1	1	0.11
(2,37)	1:B:5:G:H21	1:D:6:G:H1	1	0.11
(2,37)	1:C:5:G:H21	1:A:6:G:H1	1	0.11
(2,37)	1:C:5:G:H21	1:B:6:G:H1	1	0.11
(2,37)	1:C:5:G:H21	1:C:6:G:H1	1	0.11
(2,37)	1:C:5:G:H21	1:D:6:G:H1	1	0.11
(2,37)	1:D:5:G:H21	1:A:6:G:H1	1	0.11
(2,37)	1:D:5:G:H21	1:B:6:G:H1	1	0.11
(2,37)	1:D:5:G:H21	1:C:6:G:H1	1	0.11
(2,37)	1:D:5:G:H21	1:D:6:G:H1	1	0.11
(2,13)	1:A:2:G:H22	1:A:1:U:H5	14	0.11
(2,13)	1:A:2:G:H22	1:B:1:U:H5	14	0.11
(2,13)	1:A:2:G:H22	1:C:1:U:H5	14	0.11
(2,13)	1:A:2:G:H22	1:D:1:U:H5	14	0.11
(2,13)	1:B:2:G:H22	1:A:1:U:H5	14	0.11
(2,13)	1:B:2:G:H22	1:B:1:U:H5	14	0.11
(2,13)	1:B:2:G:H22	1:C:1:U:H5	14	0.11
(2,13)	1:B:2:G:H22	1:D:1:U:H5	14	0.11
(2,13)	1:C:2:G:H22	1:A:1:U:H5	14	0.11
(2,13)	1:C:2:G:H22	1:B:1:U:H5	14	0.11
(2,13)	1:C:2:G:H22	1:C:1:U:H5	14	0.11
(2,13)	1:C:2:G:H22	1:D:1:U:H5	14	0.11
(2,13)	1:D:2:G:H22	1:A:1:U:H5	14	0.11
(2,13)	1:D:2:G:H22	1:B:1:U:H5	14	0.11
(2,13)	1:D:2:G:H22	1:C:1:U:H5	14	0.11
(2,13)	1:D:2:G:H22	1:D:1:U:H5	14	0.11
(1,73)	1:A:3:G:H2'	1:A:4:U:H5'	7	0.11
(1,73)	1:A:3:G:H2'	1:B:4:U:H5'	7	0.11
(1,73)	1:A:3:G:H2'	1:C:4:U:H5'	7	0.11
(1,73)	1:A:3:G:H2'	1:D:4:U:H5'	7	0.11
(1,73)	1:B:3:G:H2'	1:A:4:U:H5'	7	0.11
(1,73)	1:B:3:G:H2'	1:B:4:U:H5'	7	0.11
(1,73)	1:B:3:G:H2'	1:C:4:U:H5'	7	0.11
(1,73)	1:B:3:G:H2'	1:D:4:U:H5'	7	0.11
(1,73)	1:C:3:G:H2'	1:A:4:U:H5'	7	0.11
(1,73)	1:C:3:G:H2'	1:B:4:U:H5'	7	0.11
(1,73)	1:C:3:G:H2'	1:C:4:U:H5'	7	0.11
(1,73)	1:C:3:G:H2'	1:D:4:U:H5'	7	0.11
(1,73)	1:D:3:G:H2'	1:A:4:U:H5'	7	0.11
(1,73)	1:D:3:G:H2'	1:B:4:U:H5'	7	0.11
(1,73)	1:D:3:G:H2'	1:C:4:U:H5'	7	0.11
(1,73)	1:D:3:G:H2'	1:D:4:U:H5'	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:A:3:G:H2'	1:A:4:U:H5''	7	0.11
(1,73)	1:A:3:G:H2'	1:B:4:U:H5''	7	0.11
(1,73)	1:A:3:G:H2'	1:C:4:U:H5''	7	0.11
(1,73)	1:A:3:G:H2'	1:D:4:U:H5''	7	0.11
(1,73)	1:B:3:G:H2'	1:A:4:U:H5''	7	0.11
(1,73)	1:B:3:G:H2'	1:B:4:U:H5''	7	0.11
(1,73)	1:B:3:G:H2'	1:C:4:U:H5''	7	0.11
(1,73)	1:B:3:G:H2'	1:D:4:U:H5''	7	0.11
(1,73)	1:C:3:G:H2'	1:A:4:U:H5''	7	0.11
(1,73)	1:C:3:G:H2'	1:B:4:U:H5''	7	0.11
(1,73)	1:C:3:G:H2'	1:C:4:U:H5''	7	0.11
(1,73)	1:C:3:G:H2'	1:D:4:U:H5''	7	0.11
(1,73)	1:D:3:G:H2'	1:A:4:U:H5''	7	0.11
(1,73)	1:D:3:G:H2'	1:B:4:U:H5''	7	0.11
(1,73)	1:D:3:G:H2'	1:C:4:U:H5''	7	0.11
(1,73)	1:D:3:G:H2'	1:D:4:U:H5''	7	0.11
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	8	0.11
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	8	0.11
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	8	0.11
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	8	0.11
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	8	0.11
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	8	0.11
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	8	0.11
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	8	0.11
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	8	0.11
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	8	0.11
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	8	0.11
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	8	0.11
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	8	0.11
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	8	0.11
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	8	0.11
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	8	0.11
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	8	0.11
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	8	0.11
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	8	0.11
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	8	0.11
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	8	0.11
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	8	0.11
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	8	0.11
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	8	0.11
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	8	0.11
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	8	0.11
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	8	0.11
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	8	0.11
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	8	0.11
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	8	0.11
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	8	0.11
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	9	0.11
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	9	0.11
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	9	0.11
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	9	0.11
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	9	0.11
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	9	0.11
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	9	0.11
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	9	0.11
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	9	0.11
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	9	0.11
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	9	0.11
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	9	0.11
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	9	0.11
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	9	0.11
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	9	0.11
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	9	0.11
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	9	0.11
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	9	0.11
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	9	0.11
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	9	0.11
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	9	0.11
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	9	0.11
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	9	0.11
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	9	0.11
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	9	0.11
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	9	0.11
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	9	0.11
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	9	0.11
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	9	0.11
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	9	0.11
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	9	0.11
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	9	0.11
(1,72)	1:A:3:G:H5'	1:A:3:G:H4'	13	0.11
(1,72)	1:A:3:G:H5'	1:B:3:G:H4'	13	0.11
(1,72)	1:A:3:G:H5'	1:C:3:G:H4'	13	0.11
(1,72)	1:A:3:G:H5'	1:D:3:G:H4'	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:B:3:G:H5'	1:A:3:G:H4'	13	0.11
(1,72)	1:B:3:G:H5'	1:B:3:G:H4'	13	0.11
(1,72)	1:B:3:G:H5'	1:C:3:G:H4'	13	0.11
(1,72)	1:B:3:G:H5'	1:D:3:G:H4'	13	0.11
(1,72)	1:C:3:G:H5'	1:A:3:G:H4'	13	0.11
(1,72)	1:C:3:G:H5'	1:B:3:G:H4'	13	0.11
(1,72)	1:C:3:G:H5'	1:C:3:G:H4'	13	0.11
(1,72)	1:C:3:G:H5'	1:D:3:G:H4'	13	0.11
(1,72)	1:D:3:G:H5'	1:A:3:G:H4'	13	0.11
(1,72)	1:D:3:G:H5'	1:B:3:G:H4'	13	0.11
(1,72)	1:D:3:G:H5'	1:C:3:G:H4'	13	0.11
(1,72)	1:D:3:G:H5'	1:D:3:G:H4'	13	0.11
(1,72)	1:A:3:G:H5''	1:A:3:G:H4'	13	0.11
(1,72)	1:A:3:G:H5''	1:B:3:G:H4'	13	0.11
(1,72)	1:A:3:G:H5''	1:C:3:G:H4'	13	0.11
(1,72)	1:A:3:G:H5''	1:D:3:G:H4'	13	0.11
(1,72)	1:B:3:G:H5''	1:A:3:G:H4'	13	0.11
(1,72)	1:B:3:G:H5''	1:B:3:G:H4'	13	0.11
(1,72)	1:B:3:G:H5''	1:C:3:G:H4'	13	0.11
(1,72)	1:B:3:G:H5''	1:D:3:G:H4'	13	0.11
(1,72)	1:C:3:G:H5''	1:A:3:G:H4'	13	0.11
(1,72)	1:C:3:G:H5''	1:B:3:G:H4'	13	0.11
(1,72)	1:C:3:G:H5''	1:C:3:G:H4'	13	0.11
(1,72)	1:C:3:G:H5''	1:D:3:G:H4'	13	0.11
(1,72)	1:D:3:G:H5''	1:A:3:G:H4'	13	0.11
(1,72)	1:D:3:G:H5''	1:B:3:G:H4'	13	0.11
(1,72)	1:D:3:G:H5''	1:C:3:G:H4'	13	0.11
(1,72)	1:D:3:G:H5''	1:D:3:G:H4'	13	0.11
(1,28)	1:A:6:G:H8	1:A:6:G:H3'	10	0.11
(1,28)	1:A:6:G:H8	1:B:6:G:H3'	10	0.11
(1,28)	1:A:6:G:H8	1:C:6:G:H3'	10	0.11
(1,28)	1:A:6:G:H8	1:D:6:G:H3'	10	0.11
(1,28)	1:B:6:G:H8	1:A:6:G:H3'	10	0.11
(1,28)	1:B:6:G:H8	1:B:6:G:H3'	10	0.11
(1,28)	1:B:6:G:H8	1:C:6:G:H3'	10	0.11
(1,28)	1:B:6:G:H8	1:D:6:G:H3'	10	0.11
(1,28)	1:C:6:G:H8	1:A:6:G:H3'	10	0.11
(1,28)	1:C:6:G:H8	1:B:6:G:H3'	10	0.11
(1,28)	1:C:6:G:H8	1:C:6:G:H3'	10	0.11
(1,28)	1:C:6:G:H8	1:D:6:G:H3'	10	0.11
(1,28)	1:D:6:G:H8	1:A:6:G:H3'	10	0.11
(1,28)	1:D:6:G:H8	1:B:6:G:H3'	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	1:D:6:G:H8	1:C:6:G:H3'	10	0.11
(1,28)	1:D:6:G:H8	1:D:6:G:H3'	10	0.11
(1,21)	1:A:5:G:H8	1:A:5:G:H3'	5	0.11
(1,21)	1:A:5:G:H8	1:B:5:G:H3'	5	0.11
(1,21)	1:A:5:G:H8	1:C:5:G:H3'	5	0.11
(1,21)	1:A:5:G:H8	1:D:5:G:H3'	5	0.11
(1,21)	1:B:5:G:H8	1:A:5:G:H3'	5	0.11
(1,21)	1:B:5:G:H8	1:B:5:G:H3'	5	0.11
(1,21)	1:B:5:G:H8	1:C:5:G:H3'	5	0.11
(1,21)	1:B:5:G:H8	1:D:5:G:H3'	5	0.11
(1,21)	1:C:5:G:H8	1:A:5:G:H3'	5	0.11
(1,21)	1:C:5:G:H8	1:B:5:G:H3'	5	0.11
(1,21)	1:C:5:G:H8	1:C:5:G:H3'	5	0.11
(1,21)	1:C:5:G:H8	1:D:5:G:H3'	5	0.11
(1,21)	1:D:5:G:H8	1:A:5:G:H3'	5	0.11
(1,21)	1:D:5:G:H8	1:B:5:G:H3'	5	0.11
(1,21)	1:D:5:G:H8	1:C:5:G:H3'	5	0.11
(1,21)	1:D:5:G:H8	1:D:5:G:H3'	5	0.11
(1,21)	1:A:5:G:H8	1:A:5:G:H3'	11	0.11
(1,21)	1:A:5:G:H8	1:B:5:G:H3'	11	0.11
(1,21)	1:A:5:G:H8	1:C:5:G:H3'	11	0.11
(1,21)	1:A:5:G:H8	1:D:5:G:H3'	11	0.11
(1,21)	1:B:5:G:H8	1:A:5:G:H3'	11	0.11
(1,21)	1:B:5:G:H8	1:B:5:G:H3'	11	0.11
(1,21)	1:B:5:G:H8	1:C:5:G:H3'	11	0.11
(1,21)	1:B:5:G:H8	1:D:5:G:H3'	11	0.11
(1,21)	1:C:5:G:H8	1:A:5:G:H3'	11	0.11
(1,21)	1:C:5:G:H8	1:B:5:G:H3'	11	0.11
(1,21)	1:C:5:G:H8	1:C:5:G:H3'	11	0.11
(1,21)	1:C:5:G:H8	1:D:5:G:H3'	11	0.11
(1,21)	1:D:5:G:H8	1:A:5:G:H3'	11	0.11
(1,21)	1:D:5:G:H8	1:B:5:G:H3'	11	0.11
(1,21)	1:D:5:G:H8	1:C:5:G:H3'	11	0.11
(1,21)	1:D:5:G:H8	1:D:5:G:H3'	11	0.11

10 Dihedral-angle violation analysis [i](#)

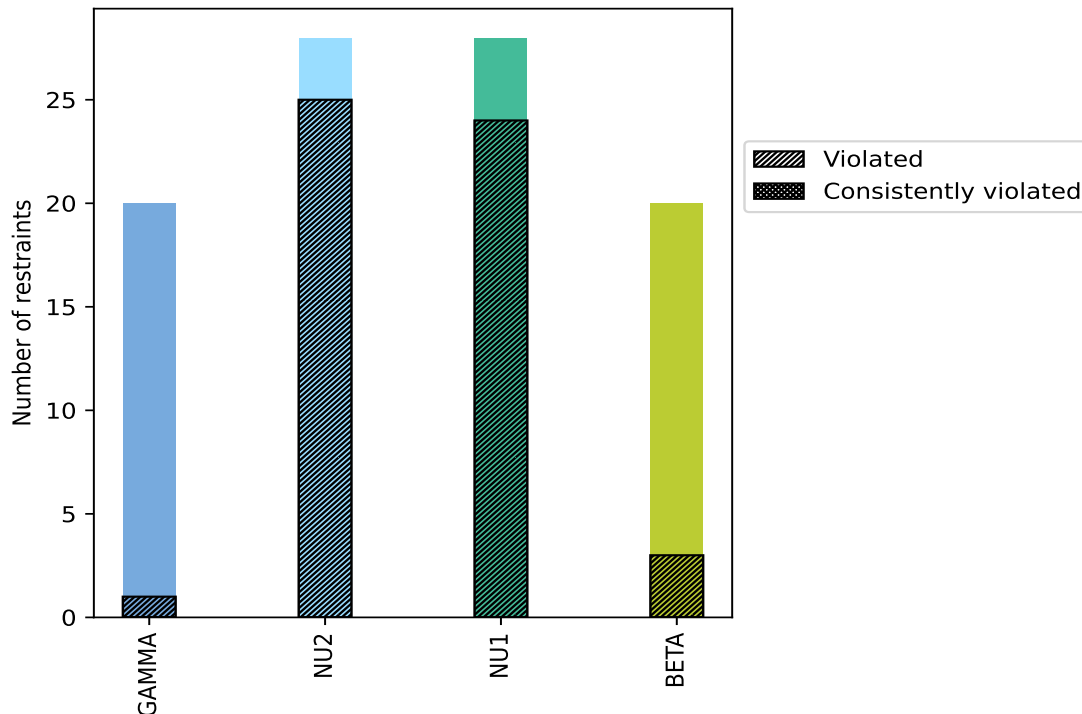
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
GAMMA	20	20.8	1	5.0	1.0	0	0.0	0.0
NU2	28	29.2	25	89.3	26.0	0	0.0	0.0
NU1	28	29.2	24	85.7	25.0	0	0.0	0.0
BETA	20	20.8	3	15.0	3.1	0	0.0	0.0
Total	96	100.0	53	55.2	55.2	0	0.0	0.0

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

10.1.1 Bar chart : Distribution of dihedral-angles and violations [i](#)



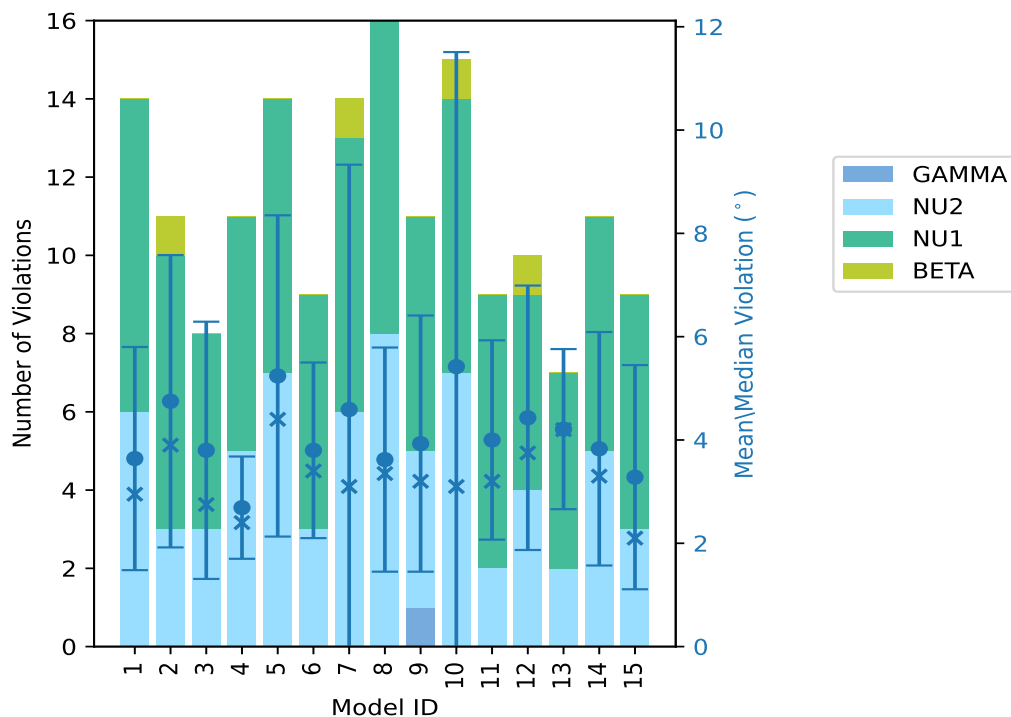
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

The following table provides the dihedral-angle violation statistics for each model in the ensemble. Violations less than 1° are not included in the statistics.

Model ID	Number of violations					Mean (°)	Max (°)	SD (°)	Median (°)
	GAMMA	NU2	NU1	BETA	Total				
1	0	6	8	0	14	3.64	7.2	2.16	2.95
2	0	3	7	1	11	4.75	9.9	2.83	3.9
3	0	3	5	0	8	3.8	7.7	2.49	2.75
4	0	5	6	0	11	2.69	4.9	0.99	2.4
5	0	7	7	0	14	5.24	11.5	3.11	4.4
6	0	3	6	0	9	3.8	8.1	1.7	3.4
7	0	6	7	1	14	4.59	19.5	4.74	3.1
8	0	8	8	0	16	3.62	9.7	2.17	3.35
9	1	4	6	0	11	3.93	9.2	2.48	3.2
10	0	7	7	1	15	5.42	26.3	6.09	3.1
11	0	2	7	0	9	4.0	7.0	1.93	3.2
12	0	4	5	1	10	4.43	9.4	2.56	3.75
13	0	2	5	0	7	4.21	6.4	1.55	4.2
14	0	5	6	0	11	3.83	9.2	2.26	3.3
15	0	3	6	0	9	3.28	7.8	2.17	2.1

10.2.1 Bar graph : Dihedral 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

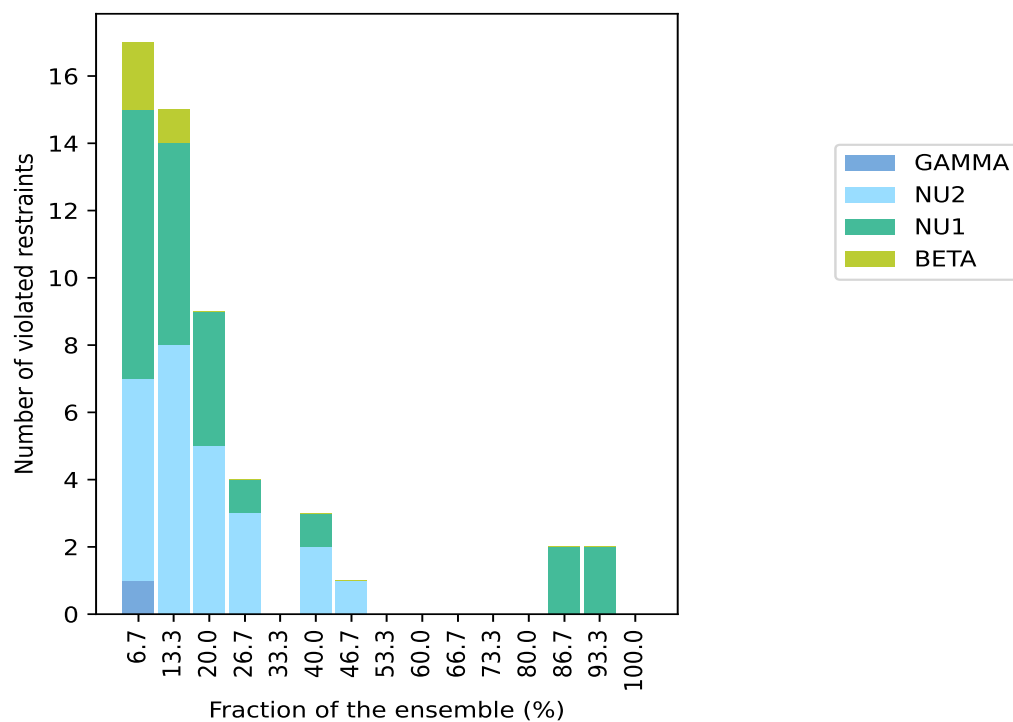
10.3 Dihedral-angle violation statistics for the ensemble

Violation analysis may find that some restraints are violated in very 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 ensemble.

Number of violated restraints					Fraction of the ensemble	
GAMMA	NU2	NU1	BETA	Total	Count ¹	%
1	6	8	2	17	1	6.7
0	8	6	1	15	2	13.3
0	5	4	0	9	3	20.0
0	3	1	0	4	4	26.7
0	0	0	0	0	5	33.3
0	2	1	0	3	6	40.0
0	1	0	0	1	7	46.7
0	0	0	0	0	8	53.3
0	0	0	0	0	9	60.0
0	0	0	0	0	10	66.7
0	0	0	0	0	11	73.3
0	0	0	0	0	12	80.0
0	0	2	0	2	13	86.7
0	0	2	0	2	14	93.3
0	0	0	0	0	15	100.0

¹ Number of models with violations

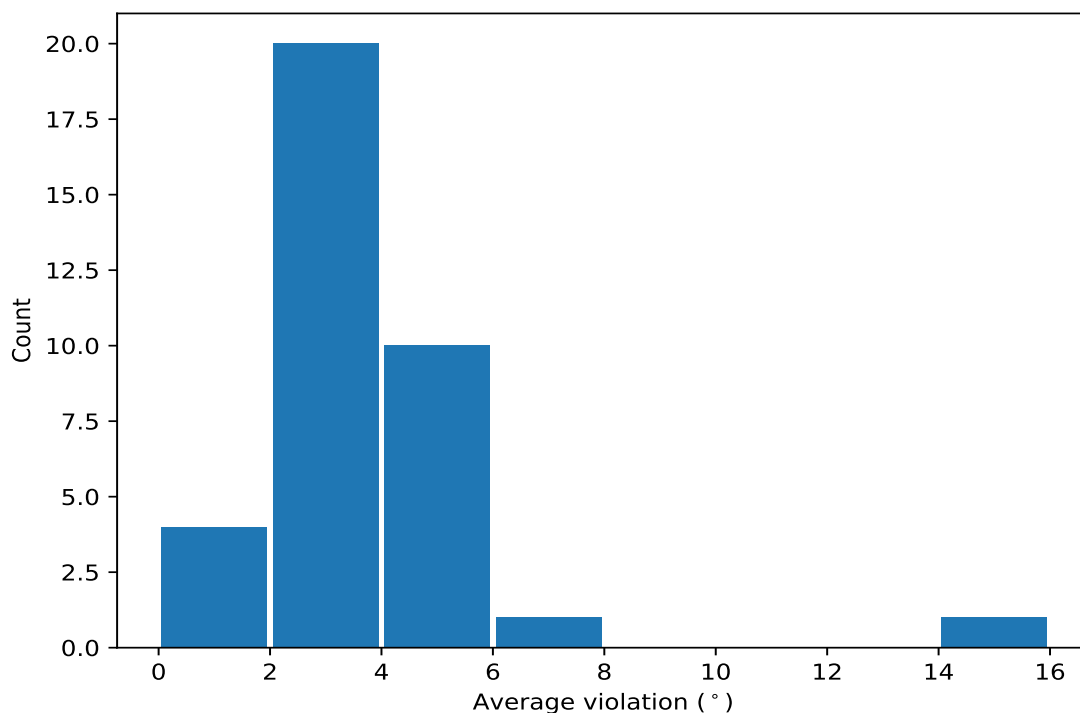
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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

10.4.1 Histogram : Distribution of mean dihedral-angle 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



10.4.2 Table: Most violated dihedral-angle 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.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	14	5.07	2.42	5.05
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	14	5.03	1.99	4.85
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	13	6.29	2.83	6.5
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	13	5.15	2.8	4.2
(1,31)	1:C:4:U:C1'	1:C:4:U:C2'	1:C:4:U:C3'	1:C:4:U:C4'	7	4.11	1.91	3.4
(1,32)	1:D:4:U:C1'	1:D:4:U:C2'	1:D:4:U:C3'	1:D:4:U:C4'	6	4.97	1.54	4.5
(1,30)	1:B:4:U:C1'	1:B:4:U:C2'	1:B:4:U:C3'	1:B:4:U:C4'	6	2.98	1.2	2.8
(1,1)	1:A:1:U:O4'	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	6	2.47	1.16	2.05
(1,56)	1:D:7:U:C1'	1:D:7:U:C2'	1:D:7:U:C3'	1:D:7:U:C4'	4	4.12	2.14	3.95
(1,29)	1:A:4:U:C1'	1:A:4:U:C2'	1:A:4:U:C3'	1:A:4:U:C4'	4	3.58	2.57	2.4
(1,51)	1:C:7:U:O4'	1:C:7:U:C1'	1:C:7:U:C2'	1:C:7:U:C3'	4	2.38	0.95	2.1
(1,13)	1:A:2:G:C1'	1:A:2:G:C2'	1:A:2:G:C3'	1:A:2:G:C4'	4	2.25	0.55	2.2
(1,2)	1:B:1:U:O4'	1:B:1:U:C1'	1:B:1:U:C2'	1:B:1:U:C3'	3	4.0	0.83	4.2
(1,9)	1:A:2:G:O4'	1:A:2:G:C1'	1:A:2:G:C2'	1:A:2:G:C3'	3	3.8	0.57	4.1
(1,4)	1:D:1:U:O4'	1:D:1:U:C1'	1:D:1:U:C2'	1:D:1:U:C3'	3	3.63	1.9	2.6
(1,53)	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	1:A:7:U:C4'	3	3.0	1.07	3.6
(1,15)	1:C:2:G:C1'	1:C:2:G:C2'	1:C:2:G:C3'	1:C:2:G:C4'	3	2.93	0.97	2.4
(1,6)	1:B:1:U:C1'	1:B:1:U:C2'	1:B:1:U:C3'	1:B:1:U:C4'	3	2.13	0.42	2.0
(1,49)	1:A:7:U:O4'	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	3	1.97	0.8	1.4
(1,40)	1:D:5:G:C1'	1:D:5:G:C2'	1:D:5:G:C3'	1:D:5:G:C4'	3	1.67	0.49	1.6
(1,21)	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	1:A:3:G:C4'	3	1.57	0.25	1.5

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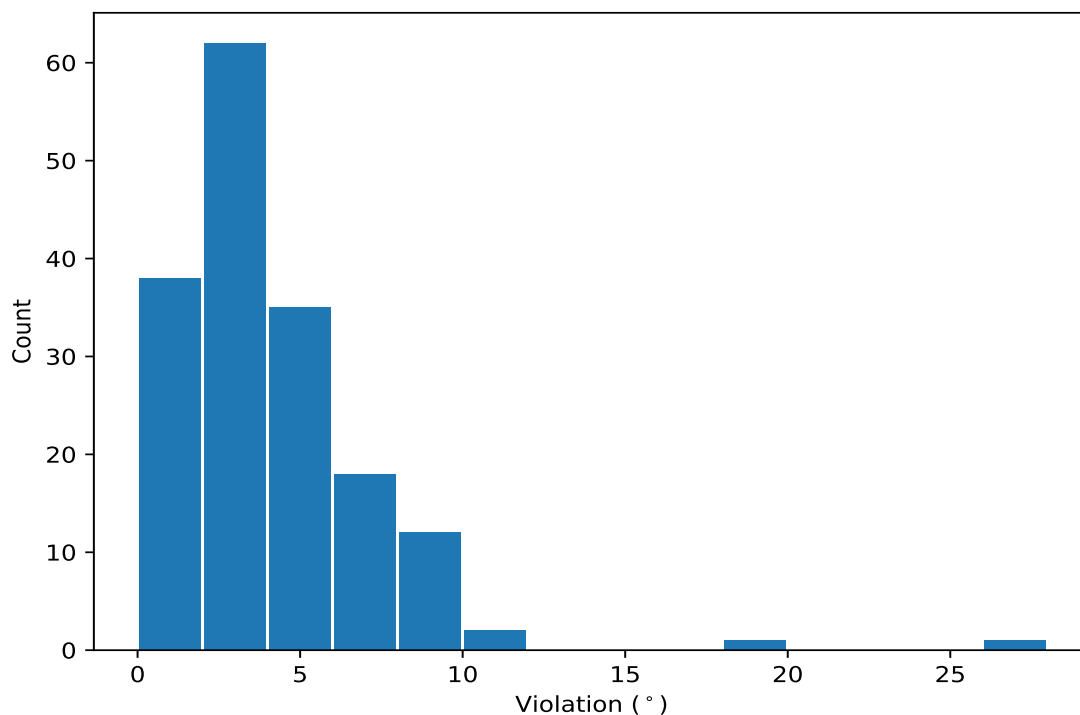
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,75)	1:C:7:U:P	1:C:7:U:O5'	1:C:7:U:C5'	1:C:7:U:C4'	2	14.7	4.8	14.7
(1,12)	1:D:2:G:O4'	1:D:2:G:C1'	1:D:2:G:C2'	1:D:2:G:C3'	2	5.3	0.1	5.3
(1,28)	1:D:4:U:O4'	1:D:4:U:C1'	1:D:4:U:C2'	1:D:4:U:C3'	2	4.65	2.55	4.65
(1,52)	1:D:7:U:O4'	1:D:7:U:C1'	1:D:7:U:C2'	1:D:7:U:C3'	2	4.2	1.6	4.2
(1,10)	1:B:2:G:O4'	1:B:2:G:C1'	1:B:2:G:C2'	1:B:2:G:C3'	2	3.7	1.2	3.7
(1,54)	1:B:7:U:C1'	1:B:7:U:C2'	1:B:7:U:C3'	1:B:7:U:C4'	2	3.2	0.1	3.2
(1,55)	1:C:7:U:C1'	1:C:7:U:C2'	1:C:7:U:C3'	1:C:7:U:C4'	2	3.05	1.35	3.05
(1,14)	1:B:2:G:C1'	1:B:2:G:C2'	1:B:2:G:C3'	1:B:2:G:C4'	2	2.8	1.7	2.8
(1,8)	1:D:1:U:C1'	1:D:1:U:C2'	1:D:1:U:C3'	1:D:1:U:C4'	2	2.7	0.6	2.7
(1,11)	1:C:2:G:O4'	1:C:2:G:C1'	1:C:2:G:C2'	1:C:2:G:C3'	2	2.5	1.2	2.5
(1,39)	1:C:5:G:C1'	1:C:5:G:C2'	1:C:5:G:C3'	1:C:5:G:C4'	2	2.45	0.75	2.45
(1,37)	1:A:5:G:C1'	1:A:5:G:C2'	1:A:5:G:C3'	1:A:5:G:C4'	2	2.4	0.5	2.4
(1,33)	1:A:5:G:O4'	1:A:5:G:C1'	1:A:5:G:C2'	1:A:5:G:C3'	2	2.25	1.15	2.25
(1,24)	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	1:D:3:G:C4'	2	2.15	0.25	2.15
(1,22)	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	1:B:3:G:C4'	2	1.95	0.85	1.95

¹ Number of violated models, ²Standard deviation, All angle values are in degree (°)

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

10.5.1 Histogram : Distribution of violations [i](#)

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



10.5.2 Table: All violated dihedral-angle restraints [\(i\)](#)

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.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,76)	1:D:7:U:P	1:D:7:U:O5'	1:D:7:U:C5'	1:D:7:U:C4'	10	26.3
(1,75)	1:C:7:U:P	1:C:7:U:O5'	1:C:7:U:C5'	1:C:7:U:C4'	7	19.5
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	5	11.5
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	5	11.0
(1,75)	1:C:7:U:P	1:C:7:U:O5'	1:C:7:U:C5'	1:C:7:U:C4'	2	9.9
(1,7)	1:C:1:U:C1'	1:C:1:U:C2'	1:C:1:U:C3'	1:C:1:U:C4'	8	9.7
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	10	9.6
(1,5)	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1:A:1:U:C4'	5	9.5
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	12	9.4
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	9	9.2
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	14	9.2
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	10	8.9
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	7	8.8
(1,31)	1:C:4:U:C1'	1:C:4:U:C2'	1:C:4:U:C3'	1:C:4:U:C4'	7	8.1
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	6	8.1
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	12	8.1
(1,29)	1:A:4:U:C1'	1:A:4:U:C2'	1:A:4:U:C3'	1:A:4:U:C4'	2	7.9
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	15	7.8
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	3	7.7
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	2	7.6
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	9	7.4
(1,32)	1:D:4:U:C1'	1:D:4:U:C2'	1:D:4:U:C3'	1:D:4:U:C4'	3	7.3
(1,3)	1:C:1:U:O4'	1:C:1:U:C1'	1:C:1:U:C2'	1:C:1:U:C3'	8	7.2
(1,28)	1:D:4:U:O4'	1:D:4:U:C1'	1:D:4:U:C2'	1:D:4:U:C3'	1	7.2
(1,56)	1:D:7:U:C1'	1:D:7:U:C2'	1:D:7:U:C3'	1:D:7:U:C4'	11	7.0
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	2	6.9
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	14	6.8
(1,32)	1:D:4:U:C1'	1:D:4:U:C2'	1:D:4:U:C3'	1:D:4:U:C4'	1	6.6
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	11	6.5
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	13	6.4
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	12	6.4
(1,4)	1:D:1:U:O4'	1:D:1:U:C1'	1:D:1:U:C2'	1:D:1:U:C3'	1	6.3
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	13	6.3
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	5	6.0
(1,52)	1:D:7:U:O4'	1:D:7:U:C1'	1:D:7:U:C2'	1:D:7:U:C3'	10	5.8
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	9	5.7
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	11	5.7
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	1	5.6
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	1	5.6
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	3	5.5
(1,12)	1:D:2:G:O4'	1:D:2:G:C1'	1:D:2:G:C2'	1:D:2:G:C3'	15	5.4
(1,56)	1:D:7:U:C1'	1:D:7:U:C2'	1:D:7:U:C3'	1:D:7:U:C4'	15	5.3
(1,31)	1:C:4:U:C1'	1:C:4:U:C2'	1:C:4:U:C3'	1:C:4:U:C4'	10	5.2
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	2	5.2
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	5	5.2
(1,12)	1:D:2:G:O4'	1:D:2:G:C1'	1:D:2:G:C2'	1:D:2:G:C3'	8	5.2
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	9	5.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,32)	1:D:4:U:C1'	1:D:4:U:C2'	1:D:4:U:C3'	1:D:4:U:C4'	4	4.9
(1,2)	1:B:1:U:O4'	1:B:1:U:C1'	1:B:1:U:C2'	1:B:1:U:C3'	11	4.9
(1,10)	1:B:2:G:O4'	1:B:2:G:C1'	1:B:2:G:C2'	1:B:2:G:C3'	5	4.9
(1,31)	1:C:4:U:C1'	1:C:4:U:C2'	1:C:4:U:C3'	1:C:4:U:C4'	6	4.6
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	14	4.6
(1,1)	1:A:1:U:O4'	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	7	4.6
(1,30)	1:B:4:U:C1'	1:B:4:U:C2'	1:B:4:U:C3'	1:B:4:U:C4'	13	4.5
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	1	4.5
(1,14)	1:B:2:G:C1'	1:B:2:G:C2'	1:B:2:G:C3'	1:B:2:G:C4'	5	4.5
(1,55)	1:C:7:U:C1'	1:C:7:U:C2'	1:C:7:U:C3'	1:C:7:U:C4'	12	4.4
(1,30)	1:B:4:U:C1'	1:B:4:U:C2'	1:B:4:U:C3'	1:B:4:U:C4'	6	4.4
(1,9)	1:A:2:G:O4'	1:A:2:G:C1'	1:A:2:G:C2'	1:A:2:G:C3'	5	4.3
(1,15)	1:C:2:G:C1'	1:C:2:G:C2'	1:C:2:G:C3'	1:C:2:G:C4'	5	4.3
(1,2)	1:B:1:U:O4'	1:B:1:U:C1'	1:B:1:U:C2'	1:B:1:U:C3'	14	4.2
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	8	4.2
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	7	4.2
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	13	4.2
(1,9)	1:A:2:G:O4'	1:A:2:G:C1'	1:A:2:G:C2'	1:A:2:G:C3'	8	4.1
(1,32)	1:D:4:U:C1'	1:D:4:U:C2'	1:D:4:U:C3'	1:D:4:U:C4'	8	4.1
(1,32)	1:D:4:U:C1'	1:D:4:U:C2'	1:D:4:U:C3'	1:D:4:U:C4'	10	4.1
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	12	4.1
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	4	4.0
(1,53)	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	1:A:7:U:C4'	14	3.9
(1,51)	1:C:7:U:O4'	1:C:7:U:C1'	1:C:7:U:C2'	1:C:7:U:C3'	2	3.9
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	2	3.9
(1,11)	1:C:2:G:O4'	1:C:2:G:C1'	1:C:2:G:C2'	1:C:2:G:C3'	10	3.7
(1,53)	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	1:A:7:U:C4'	5	3.6
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	8	3.5
(1,33)	1:A:5:G:O4'	1:A:5:G:C1'	1:A:5:G:C2'	1:A:5:G:C3'	8	3.4
(1,31)	1:C:4:U:C1'	1:C:4:U:C2'	1:C:4:U:C3'	1:C:4:U:C4'	12	3.4
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	6	3.4
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	6	3.4
(1,8)	1:D:1:U:C1'	1:D:1:U:C2'	1:D:1:U:C3'	1:D:1:U:C4'	8	3.3
(1,54)	1:B:7:U:C1'	1:B:7:U:C2'	1:B:7:U:C3'	1:B:7:U:C4'	7	3.3
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	14	3.3
(1,1)	1:A:1:U:O4'	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	9	3.3
(1,39)	1:C:5:G:C1'	1:C:5:G:C2'	1:C:5:G:C3'	1:C:5:G:C4'	9	3.2
(1,30)	1:B:4:U:C1'	1:B:4:U:C2'	1:B:4:U:C3'	1:B:4:U:C4'	1	3.2
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	13	3.2
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	11	3.2
(1,54)	1:B:7:U:C1'	1:B:7:U:C2'	1:B:7:U:C3'	1:B:7:U:C4'	10	3.1
(1,49)	1:A:7:U:O4'	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	4	3.1
(1,29)	1:A:4:U:C1'	1:A:4:U:C2'	1:A:4:U:C3'	1:A:4:U:C4'	7	3.1
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	7	3.1
(1,9)	1:A:2:G:O4'	1:A:2:G:C1'	1:A:2:G:C2'	1:A:2:G:C3'	4	3.0
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	10	3.0
(1,37)	1:A:5:G:C1'	1:A:5:G:C2'	1:A:5:G:C3'	1:A:5:G:C4'	3	2.9
(1,2)	1:B:1:U:O4'	1:B:1:U:C1'	1:B:1:U:C2'	1:B:1:U:C3'	13	2.9
(1,13)	1:A:2:G:C1'	1:A:2:G:C2'	1:A:2:G:C3'	1:A:2:G:C4'	5	2.9
(1,48)	1:D:6:G:C1'	1:D:6:G:C2'	1:D:6:G:C3'	1:D:6:G:C4'	6	2.8
(1,32)	1:D:4:U:C1'	1:D:4:U:C2'	1:D:4:U:C3'	1:D:4:U:C4'	12	2.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,22)	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	1:B:3:G:C4'	14	2.8
(1,6)	1:B:1:U:C1'	1:B:1:U:C2'	1:B:1:U:C3'	1:B:1:U:C4'	9	2.7
(1,44)	1:D:6:G:O4'	1:D:6:G:C1'	1:D:6:G:C2'	1:D:6:G:C3'	6	2.7
(1,13)	1:A:2:G:C1'	1:A:2:G:C2'	1:A:2:G:C3'	1:A:2:G:C4'	1	2.7
(1,56)	1:D:7:U:C1'	1:D:7:U:C2'	1:D:7:U:C3'	1:D:7:U:C4'	4	2.6
(1,52)	1:D:7:U:O4'	1:D:7:U:C1'	1:D:7:U:C2'	1:D:7:U:C3'	11	2.6
(1,4)	1:D:1:U:O4'	1:D:1:U:C1'	1:D:1:U:C2'	1:D:1:U:C3'	3	2.6
(1,31)	1:C:4:U:C1'	1:C:4:U:C2'	1:C:4:U:C3'	1:C:4:U:C4'	11	2.6
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	6	2.6
(1,31)	1:C:4:U:C1'	1:C:4:U:C2'	1:C:4:U:C3'	1:C:4:U:C4'	9	2.5
(1,10)	1:B:2:G:O4'	1:B:2:G:C1'	1:B:2:G:C2'	1:B:2:G:C3'	8	2.5
(1,73)	1:A:7:U:P	1:A:7:U:O5'	1:A:7:U:C5'	1:A:7:U:C4'	12	2.4
(1,51)	1:C:7:U:O4'	1:C:7:U:C1'	1:C:7:U:C2'	1:C:7:U:C3'	10	2.4
(1,31)	1:C:4:U:C1'	1:C:4:U:C2'	1:C:4:U:C3'	1:C:4:U:C4'	15	2.4
(1,30)	1:B:4:U:C1'	1:B:4:U:C2'	1:B:4:U:C3'	1:B:4:U:C4'	8	2.4
(1,24)	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	1:D:3:G:C4'	10	2.4
(1,23)	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	1:C:3:G:C4'	5	2.4
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	4	2.4
(1,15)	1:C:2:G:C1'	1:C:2:G:C2'	1:C:2:G:C3'	1:C:2:G:C4'	10	2.4
(1,40)	1:D:5:G:C1'	1:D:5:G:C2'	1:D:5:G:C3'	1:D:5:G:C4'	7	2.3
(1,36)	1:D:5:G:O4'	1:D:5:G:C1'	1:D:5:G:C2'	1:D:5:G:C3'	7	2.3
(1,30)	1:B:4:U:C1'	1:B:4:U:C2'	1:B:4:U:C3'	1:B:4:U:C4'	4	2.3
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	4	2.3
(1,27)	1:C:4:U:O4'	1:C:4:U:C1'	1:C:4:U:C2'	1:C:4:U:C3'	2	2.2
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	3	2.2
(1,1)	1:A:1:U:O4'	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	6	2.2
(1,8)	1:D:1:U:C1'	1:D:1:U:C2'	1:D:1:U:C3'	1:D:1:U:C4'	1	2.1
(1,34)	1:B:5:G:O4'	1:B:5:G:C1'	1:B:5:G:C2'	1:B:5:G:C3'	14	2.1
(1,28)	1:D:4:U:O4'	1:D:4:U:C1'	1:D:4:U:C2'	1:D:4:U:C3'	4	2.1
(1,17)	1:A:3:G:O4'	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	15	2.1
(1,15)	1:C:2:G:C1'	1:C:2:G:C2'	1:C:2:G:C3'	1:C:2:G:C4'	15	2.1
(1,6)	1:B:1:U:C1'	1:B:1:U:C2'	1:B:1:U:C3'	1:B:1:U:C4'	13	2.0
(1,4)	1:D:1:U:O4'	1:D:1:U:C1'	1:D:1:U:C2'	1:D:1:U:C3'	8	2.0
(1,37)	1:A:5:G:C1'	1:A:5:G:C2'	1:A:5:G:C3'	1:A:5:G:C4'	8	1.9
(1,24)	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	1:D:3:G:C4'	5	1.9
(1,21)	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	1:A:3:G:C4'	14	1.9
(1,1)	1:A:1:U:O4'	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	11	1.9
(1,51)	1:C:7:U:O4'	1:C:7:U:C1'	1:C:7:U:C2'	1:C:7:U:C3'	12	1.8
(1,16)	1:D:2:G:C1'	1:D:2:G:C2'	1:D:2:G:C3'	1:D:2:G:C4'	2	1.8
(1,6)	1:B:1:U:C1'	1:B:1:U:C2'	1:B:1:U:C3'	1:B:1:U:C4'	8	1.7
(1,55)	1:C:7:U:C1'	1:C:7:U:C2'	1:C:7:U:C3'	1:C:7:U:C4'	10	1.7
(1,39)	1:C:5:G:C1'	1:C:5:G:C2'	1:C:5:G:C3'	1:C:5:G:C4'	14	1.7
(1,29)	1:A:4:U:C1'	1:A:4:U:C2'	1:A:4:U:C3'	1:A:4:U:C4'	1	1.7
(1,13)	1:A:2:G:C1'	1:A:2:G:C2'	1:A:2:G:C3'	1:A:2:G:C4'	8	1.7
(1,13)	1:A:2:G:C1'	1:A:2:G:C2'	1:A:2:G:C3'	1:A:2:G:C4'	9	1.7
(1,1)	1:A:1:U:O4'	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	15	1.7
(1,56)	1:D:7:U:C1'	1:D:7:U:C2'	1:D:7:U:C3'	1:D:7:U:C4'	2	1.6
(1,40)	1:D:5:G:C1'	1:D:5:G:C2'	1:D:5:G:C3'	1:D:5:G:C4'	1	1.6
(1,29)	1:A:4:U:C1'	1:A:4:U:C2'	1:A:4:U:C3'	1:A:4:U:C4'	14	1.6
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	11	1.6
(1,53)	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	1:A:7:U:C4'	4	1.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,21)	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	1:A:3:G:C4'	12	1.5
(1,51)	1:C:7:U:O4'	1:C:7:U:C1'	1:C:7:U:C2'	1:C:7:U:C3'	7	1.4
(1,49)	1:A:7:U:O4'	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	5	1.4
(1,49)	1:A:7:U:O4'	1:A:7:U:C1'	1:A:7:U:C2'	1:A:7:U:C3'	10	1.4
(1,47)	1:C:6:G:C1'	1:C:6:G:C2'	1:C:6:G:C3'	1:C:6:G:C4'	4	1.4
(1,20)	1:D:3:G:O4'	1:D:3:G:C1'	1:D:3:G:C2'	1:D:3:G:C3'	1	1.4
(1,19)	1:C:3:G:O4'	1:C:3:G:C1'	1:C:3:G:C2'	1:C:3:G:C3'	15	1.4
(1,50)	1:B:7:U:O4'	1:B:7:U:C1'	1:B:7:U:C2'	1:B:7:U:C3'	1	1.3
(1,35)	1:C:5:G:O4'	1:C:5:G:C1'	1:C:5:G:C2'	1:C:5:G:C3'	9	1.3
(1,25)	1:A:4:U:O4'	1:A:4:U:C1'	1:A:4:U:C2'	1:A:4:U:C3'	2	1.3
(1,21)	1:A:3:G:C1'	1:A:3:G:C2'	1:A:3:G:C3'	1:A:3:G:C4'	10	1.3
(1,18)	1:B:3:G:O4'	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	15	1.3
(1,11)	1:C:2:G:O4'	1:C:2:G:C1'	1:C:2:G:C2'	1:C:2:G:C3'	7	1.3
(1,93)	1:A:7:U:O5'	1:A:7:U:C5'	1:A:7:U:C4'	1:A:7:U:C3'	9	1.2
(1,40)	1:D:5:G:C1'	1:D:5:G:C2'	1:D:5:G:C3'	1:D:5:G:C4'	3	1.1
(1,33)	1:A:5:G:O4'	1:A:5:G:C1'	1:A:5:G:C2'	1:A:5:G:C3'	3	1.1
(1,30)	1:B:4:U:C1'	1:B:4:U:C2'	1:B:4:U:C3'	1:B:4:U:C4'	7	1.1
(1,22)	1:B:3:G:C1'	1:B:3:G:C2'	1:B:3:G:C3'	1:B:3:G:C4'	8	1.1
(1,14)	1:B:2:G:C1'	1:B:2:G:C2'	1:B:2:G:C3'	1:B:2:G:C4'	7	1.1
(1,1)	1:A:1:U:O4'	1:A:1:U:C1'	1:A:1:U:C2'	1:A:1:U:C3'	1	1.1