



## Full wwPDB EM Validation Report ⓘ

Dec 12, 2022 – 12:33 PM EST

PDB ID : 3J2A  
EMDB ID : EMD-5502  
Title : Dissecting the in vivo assembly of the 30S ribosomal subunit reveals the role of RimM  
Authors : Guo, Q.; Goto, S.; Chen, Y.; Muto, A.; Himeno, H.; Deng, H.; Lei, J.; Gao, N.  
Deposited on : 2012-09-28  
Resolution : 13.10 Å (reported)  
Based on initial model : 3OFA

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

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>.

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

EMDB validation analysis : 0.0.1.dev43  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.2

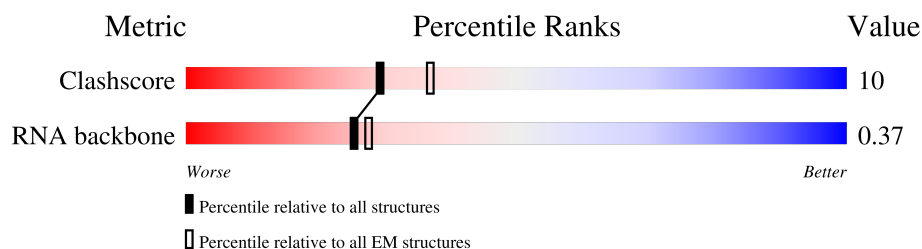
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 13.10 Å.

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)	EM structures (#Entries)
Clashscore	158937	4297
RNA backbone	4643	859

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. 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  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	N	1533	

## 2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 49446 atoms, of which 16554 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

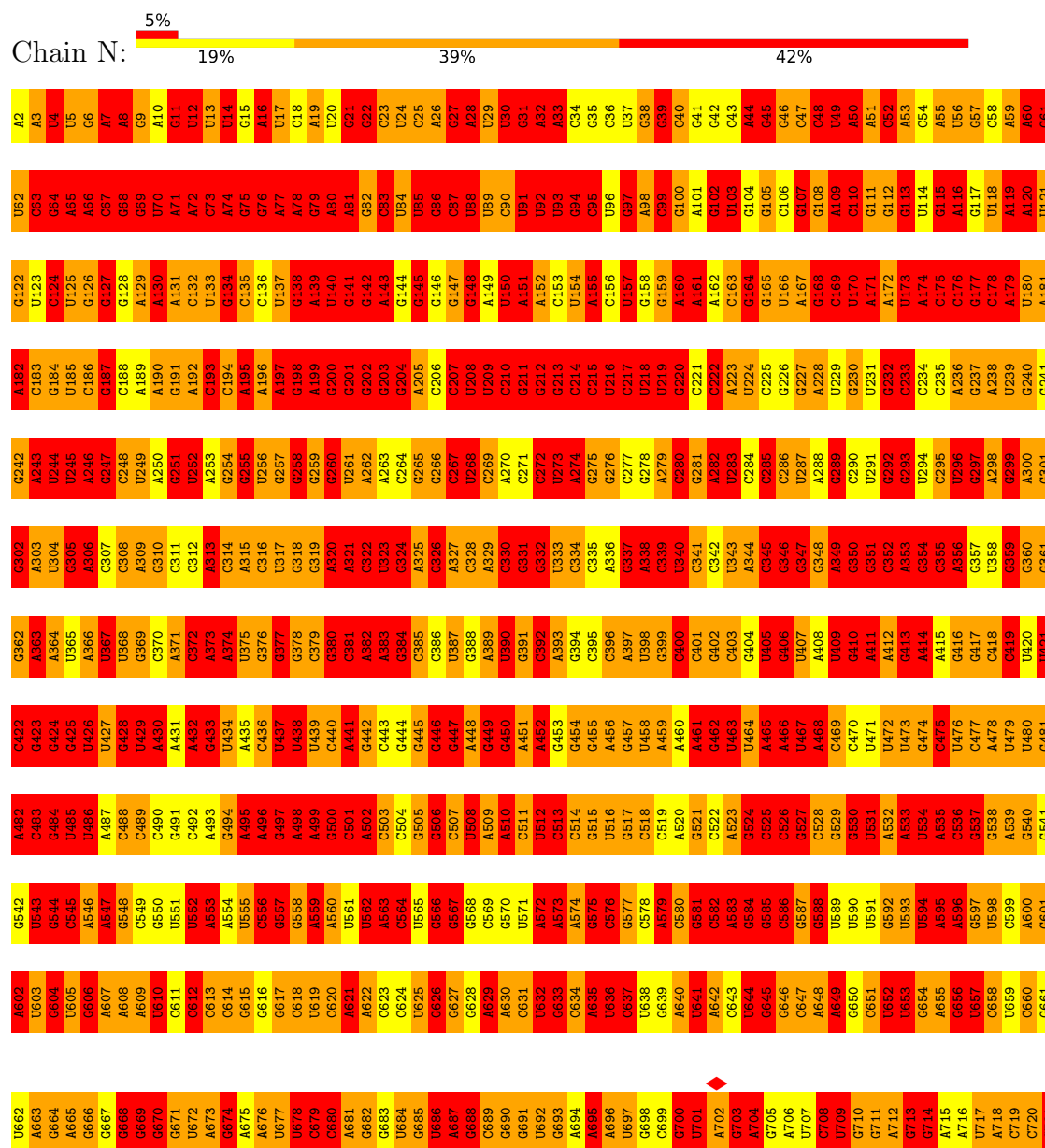
- Molecule 1 is a RNA chain called 16S rRNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	N	1533	Total	C	H	N	O	P	0	0
			49446	14671	16554	6036	10653	1532		

### 3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-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. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

#### • Molecule 1: 16S rRNA



A1502	G1442	C1382	G1142	A1082	C1022	G902	U842	A782	G722
A1503	C1443	C1383	G1143	U1083	U1023	G903	U843	C783	U723
G1504	U1444	A1324	G1144	G1084	G1024	U904	G844	A784	G724
G1505	U1445	A1325	G1145	U1085	U1025	U905	A845	G785	G725
U1506	A1446	U1326	G1146	G1086	G1026	G906	G846	G786	C726
A1507	A1447	G1327	C1147	U1087	C1027	C907	G847	G787	G727
A1508	C1448	C1328	U1148	G1088	G1028	A908	C848	U788	A728
C1509	C1389	A1329	C1149	G1089	U1029	A909	A849	U789	A729
C1510	U1390	U1330	A1150	U1090	U1030	C910	U850	A790	G730
G1511	U1391	G1331	A1151	U1091	C1031	U911	G851	G791	G731
U1512	U1392	A1332	A1152	A1092	G1032	C912	G852	A792	C732
A1513	U1393	A1333	G1153	A1093	G1033	A913	C853	G793	G733
G1514	A1394	G1334	G1154	G1084	G1034	A914	U854	A794	G734
G1515	C1395	U1335	A1155	U1095	A1035	A915	U855	C795	C735
G1516	A1396	C1336	G1156	C1096	A1036	U916	C856	G796	C736
G1517	C1397	G1337	A1157	C1097	C1037	G917	C857	C797	C737
A1518	G1454	G1338	U1158	C1098	C1038	A918	G858	U798	C738
A1519	G1455	A1398	G1278	U1099	G1039	A919	G859	G799	C739
C1520	G1456	C1399	U1159	C1100	U1040	U920	A860	G800	U740
C1521	G1457	A1400	G1160	C1101	G1041	U921	C861	U801	G741
U1522	G1458	C1401	C1161	A1102	A1042	G922	C862	A802	G742
G1523	C1459	C1402	G1162	C1103	G1043	A923	U863	G803	A743
C1524	C1460	C1403	U1163	C1104	A1044	C924	A864	U804	C744
G1525	G1461	A1404	G1164	A1105	C1045	G925	A865	C805	G745
G1526	C1462	U1405	U1165	G1106	A1046	U926	C866	C806	A746
U1527	U1463	G1347	A1167	C1107	G1047	G927	C867	A807	A747
U1528	U1464	U1348	U1168	G1108	G1048	G928	C868	C808	G748
G1529	A1465	A1349	A1169	C1109	U1049	G929	G869	G809	A749
G1530	A1466	A1350	A1170	A1110	G1050	C930	U870	C810	C750
A1531	C1466	U1351	U1171	A1111	C1051	U931	U871	C811	U751
U1532	C1467	C1352	C1172	C1112	U1052	G932	A872	G812	G752
C1533	A1468	G1353	U1173	C1113	G1053	G933	A873	U813	A753
A1534	C1469	U1354	G1174	C1114	C1054	C934	G874	A814	C754
U1470	U1470	G1355	G1175	U1115	A1055	A935	U875	A815	G755
U1471	U1471	C1356	A1176	U1116	U1056	A936	C876	A816	C756
U1472	U1472	A1357	G1177	A1117	G1057	U937	G877	U757	G757
G1473	G1473	U1358	U1178	U1118	G1058	A938	A878	G818	C758
U1474	U1474	C1359	A1179	C1119	C1059	G939	C879	A819	A759
G1475	G1475	A1360	U1180	C1120	U1060	C940	C880	U820	G760
A1476	A1476	G1361	G1181	U1121	C1061	G941	G881	G821	G761
U1477	U1477	A1362	U1182	U1122	U1062	G942	C882	U822	U762
U1478	U1478	C1363	G1183	U1123	C1063	U943	C883	C823	G763
U1479	U1479	U1364	U1184	G1124	G1064	G944	U884	G824	C764
A1480	A1480	G1365	G1185	U1125	U1065	G945	G885	A825	G765
U1481	U1481	C1366	U1186	U1126	C1066	A946	G886	C826	A766
G1482	G1482	C1367	G1187	U1127	A1067	G947	G887	U827	A767
A1483	A1483	A1368	A1188	C1128	G1068	C948	G888	U828	A768
C1484	C1484	G1369	U1189	U1129	C1069	A949	A889	G829	G769
U1485	U1485	U1370	G1190	A1130	U1070	U950	G890	G830	G770
G1486	G1486	A1371	A1191	G1131	C1071	G951	U891	A831	G771
C1487	C1487	U1372	U1192	C1132	G1072	U952	A892	G832	U772
G1488	G1488	G1373	G1193	U1133	U1073	G953	C893	G833	G773
G1489	G1489	A1374	U1194	G1134	G1074	G954	G894	U834	G774
U1490	U1490	C1375	U1195	U1135	U1075	U955	G895	U835	G775
G1491	G1491	U1376	A1196	C1136	U1076	U956	C896	G836	G776
A1492	A1492	A1377	G1197	C1137	G1077	U957	U897	U837	A777
G1493	G1493	C1378	U1198	G1138	U1078	A898	G898	G838	G778
G1494	G1494	G1379	U1199	U1139	G1079	A959	C899	C839	C779
U1495	U1495	C1380	C1200	C1140	A1080	U960	A900	G840	A780
G1496	G1496	U1381	A1201	C1141	A1081	U961	A901	C841	A781

## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	30262	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Weiner filter	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	20	Depositor
Minimum defocus (nm)	1300	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	80000	Depositor
Image detector	GATAN ULTRASCAN 4000 (4k x 4k)	Depositor
Maximum map value	4.176	Depositor
Minimum map value	-6.630	Depositor
Average map value	-3.903	Depositor
Map value standard deviation	0.568	Depositor
Recommended contour level	-2.8	Depositor
Map size ( $\text{\AA}$ )	345.0, 345.0, 345.0	wwPDB
Map dimensions	125, 125, 125	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	2.76, 2.76, 2.76	Depositor

## 5 Model quality [i](#)

### 5.1 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 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	N	3.48	5331/36831 (14.5%)	4.00	9667/57458 (16.8%)

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 outliers	#Planarity outliers
1	N	0	937

All (5331) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1299	A	N7-C5	-19.75	1.27	1.39
1	N	787	A	N7-C5	-16.87	1.29	1.39
1	N	1367	C	N1-C6	16.52	1.47	1.37
1	N	1504	G	C6-N1	16.46	1.51	1.39
1	N	854	U	N3-C4	16.35	1.53	1.38
1	N	728	A	N7-C5	-16.32	1.29	1.39
1	N	1022	A	N7-C5	-16.31	1.29	1.39
1	N	829	G	N7-C5	-16.02	1.29	1.39
1	N	753	A	N9-C4	-15.51	1.28	1.37
1	N	1170	A	N7-C5	-15.47	1.29	1.39
1	N	1382	C	N1-C6	15.31	1.46	1.37
1	N	999	C	N1-C6	15.26	1.46	1.37
1	N	71	A	N7-C5	-15.23	1.30	1.39
1	N	1241	G	N7-C5	-15.21	1.30	1.39
1	N	1035	A	N7-C5	-15.13	1.30	1.39
1	N	497	G	N3-C4	15.08	1.46	1.35
1	N	557	G	N3-C4	-14.90	1.25	1.35
1	N	66	A	N7-C5	-14.79	1.30	1.39
1	N	187	G	C6-N1	14.78	1.49	1.39
1	N	539	A	C6-N6	14.76	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	278	G	C6-N1	14.75	1.49	1.39
1	N	332	G	C6-N1	14.74	1.49	1.39
1	N	700	G	N7-C5	-14.69	1.30	1.39
1	N	1458	G	N7-C5	-14.62	1.30	1.39
1	N	1157	A	N9-C4	-14.57	1.29	1.37
1	N	1275	A	N7-C5	-14.51	1.30	1.39
1	N	1043	G	C2-N3	14.42	1.44	1.32
1	N	390	U	C2-N3	14.38	1.47	1.37
1	N	538	G	C8-N7	14.26	1.39	1.30
1	N	1093	A	N7-C5	-14.20	1.30	1.39
1	N	689	C	C4-N4	14.16	1.46	1.33
1	N	329	A	N7-C5	-14.13	1.30	1.39
1	N	558	G	N1-C2	14.11	1.49	1.37
1	N	1101	A	N9-C4	14.08	1.46	1.37
1	N	191	G	C2-N3	14.04	1.44	1.32
1	N	1269	A	N7-C5	-13.94	1.30	1.39
1	N	515	G	N7-C5	-13.90	1.30	1.39
1	N	1176	A	N7-C5	-13.81	1.30	1.39
1	N	1055	A	N7-C5	-13.72	1.31	1.39
1	N	1224	U	C2-N3	13.69	1.47	1.37
1	N	475	C	N3-C4	13.66	1.43	1.33
1	N	1174	G	N9-C8	-13.63	1.28	1.37
1	N	1167	A	N7-C5	-13.60	1.31	1.39
1	N	1204	A	N9-C4	-13.60	1.29	1.37
1	N	784	A	N9-C4	13.53	1.46	1.37
1	N	179	A	C6-N1	13.49	1.45	1.35
1	N	1340	A	N9-C4	-13.49	1.29	1.37
1	N	1482	G	C6-N1	13.42	1.49	1.39
1	N	859	G	N7-C5	-13.35	1.31	1.39
1	N	275	G	N7-C5	-13.29	1.31	1.39
1	N	730	G	N7-C5	-13.28	1.31	1.39
1	N	919	A	N7-C5	-13.27	1.31	1.39
1	N	1350	A	N7-C5	-13.27	1.31	1.39
1	N	976	G	N7-C5	-13.22	1.31	1.39
1	N	1082	A	N7-C5	-13.18	1.31	1.39
1	N	1379	G	C2-N3	13.15	1.43	1.32
1	N	119	A	N7-C5	-13.14	1.31	1.39
1	N	104	G	C2-N3	13.12	1.43	1.32
1	N	1432	G	N7-C5	-13.12	1.31	1.39
1	N	592	G	C4'-C3'	13.11	1.67	1.53
1	N	158	G	N9-C8	13.09	1.47	1.37
1	N	466	A	N7-C5	-13.04	1.31	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1246	A	C5'-C4'	13.04	1.67	1.51
1	N	966	G	N9-C4	13.04	1.48	1.38
1	N	327	A	C6-N1	13.03	1.44	1.35
1	N	1046	A	N7-C5	-12.99	1.31	1.39
1	N	432	A	N7-C5	-12.99	1.31	1.39
1	N	81	A	C6-N6	12.98	1.44	1.33
1	N	141	G	C6-N1	12.93	1.48	1.39
1	N	907	A	N9-C8	-12.92	1.27	1.37
1	N	1453	G	N1-C2	12.91	1.48	1.37
1	N	423	G	N9-C4	12.86	1.48	1.38
1	N	137	U	C2-N3	12.85	1.46	1.37
1	N	315	A	N7-C5	-12.84	1.31	1.39
1	N	710	G	N9-C8	-12.83	1.28	1.37
1	N	1465	A	N3-C4	-12.82	1.27	1.34
1	N	78	A	N7-C5	-12.79	1.31	1.39
1	N	305	G	C5-C4	12.78	1.47	1.38
1	N	774	G	N7-C5	-12.76	1.31	1.39
1	N	912	C	N3-C4	12.75	1.42	1.33
1	N	1191	A	N7-C5	-12.74	1.31	1.39
1	N	107	G	N1-C2	12.72	1.48	1.37
1	N	1172	C	N3-C4	12.72	1.42	1.33
1	N	1280	A	N3-C4	-12.71	1.27	1.34
1	N	1156	G	C6-N1	12.70	1.48	1.39
1	N	226	G	N7-C5	-12.67	1.31	1.39
1	N	345	C	N1-C6	12.64	1.44	1.37
1	N	202	G	C6-N1	12.61	1.48	1.39
1	N	586	C	C4'-C3'	12.60	1.67	1.53
1	N	498	A	N7-C5	-12.60	1.31	1.39
1	N	227	G	N1-C2	12.57	1.47	1.37
1	N	983	A	N9-C4	12.56	1.45	1.37
1	N	874	G	C6-N1	12.56	1.48	1.39
1	N	1118	U	C2-N3	12.46	1.46	1.37
1	N	1138	G	N7-C5	-12.45	1.31	1.39
1	N	64	G	N1-C2	12.43	1.47	1.37
1	N	529	G	C4'-C3'	-12.42	1.39	1.53
1	N	481	G	C4'-C3'	12.41	1.66	1.53
1	N	497	G	N7-C5	-12.41	1.31	1.39
1	N	643	C	N1-C6	12.40	1.44	1.37
1	N	204	G	C2-N3	12.37	1.42	1.32
1	N	184	G	N7-C5	-12.37	1.31	1.39
1	N	640	A	C6-N1	12.36	1.44	1.35
1	N	1396	A	C6-N1	12.36	1.44	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1004	A	C6-N6	12.36	1.43	1.33
1	N	1348	U	C4-C5	12.35	1.54	1.43
1	N	499	A	N7-C5	-12.33	1.31	1.39
1	N	452	A	N9-C4	-12.32	1.30	1.37
1	N	773	G	C2'-C1'	-12.31	1.39	1.53
1	N	1006	G	N9-C4	-12.31	1.28	1.38
1	N	1329	A	N9-C4	-12.31	1.30	1.37
1	N	232	G	N7-C5	-12.30	1.31	1.39
1	N	53	A	C6-N6	12.29	1.43	1.33
1	N	1336	C	N1-C6	-12.27	1.29	1.37
1	N	44	A	N7-C5	-12.25	1.31	1.39
1	N	162	A	C5-C4	12.24	1.47	1.38
1	N	769	G	N1-C2	12.23	1.47	1.37
1	N	110	C	N1-C6	12.23	1.44	1.37
1	N	75	G	N3-C4	-12.22	1.26	1.35
1	N	717	U	C2-N3	12.22	1.46	1.37
1	N	502	A	N7-C5	-12.21	1.31	1.39
1	N	619	U	N1-C2	12.20	1.49	1.38
1	N	1007	U	C2-N3	12.19	1.46	1.37
1	N	1272	G	N3-C4	-12.18	1.26	1.35
1	N	1268	G	C2-N3	12.18	1.42	1.32
1	N	862	C	N1-C6	12.17	1.44	1.37
1	N	1040	U	C2-N3	12.16	1.46	1.37
1	N	258	G	C8-N7	-12.15	1.23	1.30
1	N	576	C	N3-C4	12.14	1.42	1.33
1	N	1162	C	N1-C6	12.12	1.44	1.37
1	N	985	C	N1-C6	12.11	1.44	1.37
1	N	1093	A	N9-C8	12.10	1.47	1.37
1	N	182	A	N3-C4	-12.08	1.27	1.34
1	N	1346	A	N3-C4	-12.04	1.27	1.34
1	N	236	A	N9-C4	-12.03	1.30	1.37
1	N	1022	A	C4'-C3'	12.03	1.66	1.53
1	N	1163	A	N7-C5	-11.99	1.32	1.39
1	N	983	A	C6-N6	11.99	1.43	1.33
1	N	1316	G	N7-C5	-11.99	1.32	1.39
1	N	303	A	N7-C5	-11.98	1.32	1.39
1	N	1170	A	C2-N3	11.97	1.44	1.33
1	N	142	G	P-O5'	-11.96	1.47	1.59
1	N	714	G	N7-C5	-11.94	1.32	1.39
1	N	646	G	N7-C5	-11.93	1.32	1.39
1	N	179	A	C8-N7	-11.87	1.23	1.31
1	N	1371	G	N3-C4	11.86	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1454	G	C2-N3	11.85	1.42	1.32
1	N	773	G	N1-C2	11.83	1.47	1.37
1	N	195	A	N3-C4	-11.82	1.27	1.34
1	N	633	G	N7-C5	-11.82	1.32	1.39
1	N	291	U	C2-N3	11.80	1.46	1.37
1	N	365	U	P-O5'	-11.79	1.48	1.59
1	N	528	C	N1-C6	11.78	1.44	1.37
1	N	919	A	C6-N6	11.78	1.43	1.33
1	N	660	C	N3-C4	11.73	1.42	1.33
1	N	1280	A	N9-C4	11.73	1.44	1.37
1	N	351	G	C6-N1	11.71	1.47	1.39
1	N	670	G	N7-C5	-11.69	1.32	1.39
1	N	709	U	N3-C4	11.68	1.49	1.38
1	N	160	A	N3-C4	11.67	1.41	1.34
1	N	213	G	C5-C4	-11.66	1.30	1.38
1	N	1057	G	C2-N3	11.66	1.42	1.32
1	N	648	A	N3-C4	-11.62	1.27	1.34
1	N	1442	G	C6-N1	11.59	1.47	1.39
1	N	832	G	N9-C4	-11.59	1.28	1.38
1	N	1334	G	C2-N3	11.58	1.42	1.32
1	N	327	A	N9-C4	-11.56	1.30	1.37
1	N	277	C	N3-C4	11.54	1.42	1.33
1	N	869	G	N7-C5	-11.53	1.32	1.39
1	N	1357	A	N3-C4	-11.53	1.27	1.34
1	N	146	G	C6-N1	11.52	1.47	1.39
1	N	228	A	C6-N6	11.51	1.43	1.33
1	N	1111	A	C6-N6	11.47	1.43	1.33
1	N	349	A	N9-C4	-11.47	1.30	1.37
1	N	600	A	N7-C5	-11.45	1.32	1.39
1	N	810	C	N1-C6	11.45	1.44	1.37
1	N	500	G	N1-C2	11.44	1.47	1.37
1	N	678	U	C2-N3	11.44	1.45	1.37
1	N	1429	A	N7-C5	-11.39	1.32	1.39
1	N	1105	A	C6-N6	11.39	1.43	1.33
1	N	1170	A	C5-C4	11.39	1.46	1.38
1	N	556	C	N1-C6	-11.36	1.30	1.37
1	N	1079	G	N7-C5	-11.35	1.32	1.39
1	N	1193	G	N9-C4	11.35	1.47	1.38
1	N	1299	A	C6-N1	11.34	1.43	1.35
1	N	1318	A	C6-N1	11.31	1.43	1.35
1	N	1127	G	C8-N7	-11.30	1.24	1.30
1	N	1462	C	N3-C4	11.29	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	74	A	C6-N6	11.29	1.43	1.33
1	N	719	C	N3-C4	11.29	1.41	1.33
1	N	415	A	C6-N6	11.28	1.43	1.33
1	N	1160	G	C6-N1	11.27	1.47	1.39
1	N	1024	G	C4'-C3'	11.27	1.65	1.53
1	N	1447	A	C6-N6	11.27	1.43	1.33
1	N	560	A	N9-C4	11.26	1.44	1.37
1	N	327	A	O3'-P	-11.25	1.47	1.61
1	N	1486	G	N3-C4	-11.25	1.27	1.35
1	N	1256	A	N7-C5	-11.22	1.32	1.39
1	N	908	A	N3-C4	-11.21	1.28	1.34
1	N	228	A	N9-C4	-11.21	1.31	1.37
1	N	249	U	N1-C6	11.20	1.48	1.38
1	N	1088	G	N1-C2	11.20	1.46	1.37
1	N	816	A	N9-C4	-11.19	1.31	1.37
1	N	821	G	C2-N3	11.18	1.41	1.32
1	N	1380	U	C2'-C1'	-11.17	1.41	1.53
1	N	1451	U	C4-C5	11.17	1.53	1.43
1	N	1513	A	N7-C5	-11.17	1.32	1.39
1	N	1309	G	N1-C2	11.17	1.46	1.37
1	N	869	G	C2-N3	11.14	1.41	1.32
1	N	370	C	N3-C4	11.14	1.41	1.33
1	N	239	U	C2-N3	11.14	1.45	1.37
1	N	750	C	C2-N3	11.13	1.44	1.35
1	N	289	G	C8-N7	-11.12	1.24	1.30
1	N	516	U	P-O5'	-11.11	1.48	1.59
1	N	129	A	N7-C5	-11.10	1.32	1.39
1	N	800	G	C8-N7	-11.10	1.24	1.30
1	N	1197	A	N7-C5	-11.10	1.32	1.39
1	N	1265	C	C4-N4	11.08	1.44	1.33
1	N	937	A	N7-C5	-11.08	1.32	1.39
1	N	655	A	N7-C5	-11.06	1.32	1.39
1	N	554	A	N3-C4	-11.06	1.28	1.34
1	N	36	C	C4-N4	11.05	1.43	1.33
1	N	665	A	N7-C5	-11.05	1.32	1.39
1	N	1268	G	C6-N1	11.04	1.47	1.39
1	N	380	G	N7-C5	-11.04	1.32	1.39
1	N	235	C	N3-C4	11.03	1.41	1.33
1	N	1263	C	P-O5'	-11.03	1.48	1.59
1	N	455	G	N1-C2	11.02	1.46	1.37
1	N	716	A	N9-C8	-11.01	1.28	1.37
1	N	1059	C	N3-C4	11.00	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	696	A	C6-N1	10.99	1.43	1.35
1	N	537	G	C2-N3	10.99	1.41	1.32
1	N	917	G	N7-C5	-10.99	1.32	1.39
1	N	763	G	N7-C5	-10.98	1.32	1.39
1	N	1374	A	C2'-C1'	-10.98	1.41	1.53
1	N	115	G	N7-C5	-10.98	1.32	1.39
1	N	429	U	C2-N3	10.98	1.45	1.37
1	N	1021	A	N7-C5	-10.98	1.32	1.39
1	N	1331	G	N7-C5	10.98	1.45	1.39
1	N	746	A	N7-C5	-10.96	1.32	1.39
1	N	150	U	C2-N3	10.94	1.45	1.37
1	N	609	A	P-O5'	-10.93	1.48	1.59
1	N	681	A	N7-C5	-10.93	1.32	1.39
1	N	630	A	N3-C4	10.93	1.41	1.34
1	N	935	A	N7-C5	-10.93	1.32	1.39
1	N	185	U	N3-C4	10.90	1.48	1.38
1	N	1176	A	N9-C4	10.90	1.44	1.37
1	N	1468	A	N9-C4	-10.89	1.31	1.37
1	N	496	A	N9-C8	10.89	1.46	1.37
1	N	1177	G	N7-C5	-10.88	1.32	1.39
1	N	83	C	C4-N4	10.88	1.43	1.33
1	N	316	C	N1-C6	10.88	1.43	1.37
1	N	128	G	C5'-C4'	10.86	1.64	1.51
1	N	325	A	C6-N6	10.86	1.42	1.33
1	N	1361	G	C2-N3	10.86	1.41	1.32
1	N	844	G	N7-C5	-10.86	1.32	1.39
1	N	1506	U	C2-N3	10.86	1.45	1.37
1	N	594	U	C2-N3	10.85	1.45	1.37
1	N	1346	A	N7-C5	-10.85	1.32	1.39
1	N	541	G	N7-C5	-10.84	1.32	1.39
1	N	51	A	N7-C5	-10.83	1.32	1.39
1	N	366	A	N7-C5	-10.83	1.32	1.39
1	N	691	G	C2-N3	10.81	1.41	1.32
1	N	549	C	N3-C4	10.81	1.41	1.33
1	N	897	C	N3-C4	10.78	1.41	1.33
1	N	66	A	C6-N6	10.77	1.42	1.33
1	N	1051	C	N3-C4	10.77	1.41	1.33
1	N	457	G	N7-C5	-10.76	1.32	1.39
1	N	564	C	C2-N3	10.76	1.44	1.35
1	N	1418	A	C4'-C3'	10.76	1.65	1.53
1	N	1222	G	N3-C4	-10.75	1.27	1.35
1	N	1042	A	C8-N7	-10.73	1.24	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	444	G	C6-N1	10.73	1.47	1.39
1	N	888	G	N7-C5	-10.71	1.32	1.39
1	N	1143	G	N7-C5	-10.69	1.32	1.39
1	N	229	U	C2-N3	10.69	1.45	1.37
1	N	99	C	N3-C4	10.69	1.41	1.33
1	N	1016	A	N7-C5	-10.67	1.32	1.39
1	N	1290	G	C2-N3	10.67	1.41	1.32
1	N	256	U	C4-C5	10.67	1.53	1.43
1	N	97	G	C8-N7	-10.67	1.24	1.30
1	N	1296	C	N3-C4	10.66	1.41	1.33
1	N	898	G	C2'-C1'	-10.64	1.41	1.53
1	N	283	U	C2-N3	10.62	1.45	1.37
1	N	1271	A	N9-C4	-10.62	1.31	1.37
1	N	558	G	C2'-C1'	-10.61	1.41	1.53
1	N	1213	A	C5-C4	10.60	1.46	1.38
1	N	1204	A	N7-C5	-10.60	1.32	1.39
1	N	378	G	C2-N3	10.60	1.41	1.32
1	N	712	A	N9-C4	-10.59	1.31	1.37
1	N	1407	C	N3-C4	10.58	1.41	1.33
1	N	1006	G	N7-C5	-10.56	1.32	1.39
1	N	1214	C	C4-N4	10.56	1.43	1.33
1	N	212	G	N3-C4	-10.55	1.28	1.35
1	N	1454	G	C6-N1	-10.55	1.32	1.39
1	N	775	G	C2-N3	10.54	1.41	1.32
1	N	1491	G	N7-C5	-10.52	1.32	1.39
1	N	1461	G	C2-N3	10.50	1.41	1.32
1	N	971	G	C4'-C3'	-10.50	1.41	1.53
1	N	1318	A	C6-N6	10.49	1.42	1.33
1	N	941	G	C6-N1	10.48	1.46	1.39
1	N	899	C	C2'-C1'	-10.48	1.41	1.53
1	N	1455	G	C6-N1	10.48	1.46	1.39
1	N	1110	A	C6-N6	10.47	1.42	1.33
1	N	248	C	N3-C4	10.47	1.41	1.33
1	N	393	A	N7-C5	-10.47	1.32	1.39
1	N	757	U	N1-C6	-10.47	1.28	1.38
1	N	1001	C	C5'-C4'	10.46	1.64	1.51
1	N	1441	A	C6-N1	10.46	1.42	1.35
1	N	237	G	C6-N1	10.46	1.46	1.39
1	N	1469	C	C2'-C1'	-10.45	1.41	1.53
1	N	1282	C	P-O5'	-10.44	1.49	1.59
1	N	49	U	C2-N3	10.44	1.45	1.37
1	N	1169	A	C6-N1	10.44	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	859	G	C8-N7	-10.43	1.24	1.30
1	N	1215	G	C2-N3	10.43	1.41	1.32
1	N	1154	G	C2-N2	10.42	1.45	1.34
1	N	1225	A	C6-N6	10.42	1.42	1.33
1	N	520	A	N7-C5	-10.41	1.33	1.39
1	N	1346	A	C6-N6	10.41	1.42	1.33
1	N	1267	C	C4-N4	10.40	1.43	1.33
1	N	1515	G	N7-C5	-10.39	1.33	1.39
1	N	346	G	C3'-C2'	10.39	1.64	1.52
1	N	678	U	N1-C6	10.39	1.47	1.38
1	N	908	A	P-O5'	-10.38	1.49	1.59
1	N	2	A	C6-N1	10.38	1.42	1.35
1	N	650	G	N7-C5	-10.38	1.33	1.39
1	N	978	A	C2'-C1'	-10.37	1.42	1.53
1	N	142	G	N7-C5	-10.36	1.33	1.39
1	N	591	U	N3-C4	10.37	1.47	1.38
1	N	1242	G	N7-C5	-10.36	1.33	1.39
1	N	1457	G	N7-C5	-10.35	1.33	1.39
1	N	1106	G	N7-C5	-10.35	1.33	1.39
1	N	305	G	C6-N1	10.34	1.46	1.39
1	N	1366	C	N3-C4	10.32	1.41	1.33
1	N	882	C	N3-C4	10.31	1.41	1.33
1	N	1280	A	N7-C5	-10.30	1.33	1.39
1	N	887	G	C6-N1	10.29	1.46	1.39
1	N	1275	A	C6-N6	10.29	1.42	1.33
1	N	1242	G	N9-C4	-10.28	1.29	1.38
1	N	414	A	N7-C5	-10.28	1.33	1.39
1	N	470	C	N1-C6	-10.27	1.30	1.37
1	N	486	U	N1-C2	10.27	1.47	1.38
1	N	490	C	C4-C5	10.26	1.51	1.43
1	N	1440	U	C4-C5	10.26	1.52	1.43
1	N	1280	A	C6-N6	10.26	1.42	1.33
1	N	405	U	N1-C6	-10.25	1.28	1.38
1	N	494	G	C2-N3	10.24	1.41	1.32
1	N	1123	U	C2-N3	10.24	1.45	1.37
1	N	1195	C	C4-C5	10.24	1.51	1.43
1	N	225	C	N3-C4	10.23	1.41	1.33
1	N	762	U	N3-C4	10.23	1.47	1.38
1	N	1437	A	C6-N6	10.23	1.42	1.33
1	N	656	G	N1-C2	10.22	1.46	1.37
1	N	227	G	N7-C5	-10.22	1.33	1.39
1	N	846	G	C6-N1	10.22	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	73	C	N3-C4	10.22	1.41	1.33
1	N	22	G	N7-C5	-10.21	1.33	1.39
1	N	1157	A	C6-N6	10.21	1.42	1.33
1	N	213	G	C2-N3	10.20	1.41	1.32
1	N	895	G	N9-C4	-10.20	1.29	1.38
1	N	1480	A	N9-C4	10.20	1.44	1.37
1	N	1274	A	P-O5'	-10.20	1.49	1.59
1	N	35	G	N7-C5	-10.20	1.33	1.39
1	N	1439	G	N1-C2	10.20	1.46	1.37
1	N	1525	G	N1-C2	10.19	1.46	1.37
1	N	197	A	N7-C5	-10.19	1.33	1.39
1	N	449	G	N7-C5	-10.18	1.33	1.39
1	N	1383	C	N1-C6	10.18	1.43	1.37
1	N	109	A	N3-C4	-10.18	1.28	1.34
1	N	1214	C	C2-N3	10.17	1.43	1.35
1	N	978	A	C3'-C2'	10.16	1.64	1.52
1	N	1127	G	N7-C5	-10.16	1.33	1.39
1	N	1371	G	N7-C5	-10.15	1.33	1.39
1	N	1158	C	N3-C4	10.14	1.41	1.33
1	N	242	G	N3-C4	-10.13	1.28	1.35
1	N	1046	A	N3-C4	10.12	1.41	1.34
1	N	1472	U	N1-C2	10.12	1.47	1.38
1	N	1068	G	C8-N7	-10.12	1.24	1.30
1	N	190	A	N3-C4	-10.12	1.28	1.34
1	N	731	G	C5-C6	-10.11	1.32	1.42
1	N	1041	G	C2-N3	10.11	1.40	1.32
1	N	791	G	N9-C8	10.10	1.45	1.37
1	N	313	A	C6-N6	10.09	1.42	1.33
1	N	1318	A	P-O5'	-10.09	1.49	1.59
1	N	1075	U	C5'-C4'	10.09	1.63	1.51
1	N	200	G	N7-C5	-10.09	1.33	1.39
1	N	923	A	C6-N6	10.08	1.42	1.33
1	N	1417	G	N9-C8	10.08	1.45	1.37
1	N	1331	G	C2'-C1'	-10.08	1.42	1.53
1	N	1362	A	N7-C5	-10.08	1.33	1.39
1	N	1405	G	C6-N1	10.06	1.46	1.39
1	N	858	G	N7-C5	-10.06	1.33	1.39
1	N	524	G	C2-N3	10.05	1.40	1.32
1	N	729	A	N7-C5	-10.05	1.33	1.39
1	N	929	G	N1-C2	10.05	1.45	1.37
1	N	1027	C	N3-C4	10.05	1.41	1.33
1	N	1094	G	N7-C5	-10.05	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	558	G	N9-C4	10.05	1.46	1.38
1	N	1377	A	N7-C5	-10.04	1.33	1.39
1	N	42	G	C5-C4	10.04	1.45	1.38
1	N	809	G	C6-N1	10.04	1.46	1.39
1	N	953	G	N1-C2	10.02	1.45	1.37
1	N	687	A	C6-N6	10.02	1.42	1.33
1	N	1420	U	N1-C2	10.01	1.47	1.38
1	N	101	A	C8-N7	-10.01	1.24	1.31
1	N	68	G	C8-N7	-10.01	1.25	1.30
1	N	355	C	C5'-C4'	10.01	1.63	1.51
1	N	1206	G	N7-C5	-10.01	1.33	1.39
1	N	577	G	N9-C4	-10.00	1.29	1.38
1	N	1514	G	C5-C4	10.00	1.45	1.38
1	N	561	U	C3'-C2'	10.00	1.64	1.52
1	N	777	A	N7-C5	-10.00	1.33	1.39
1	N	1180	A	N3-C4	-10.00	1.28	1.34
1	N	69	G	C2-N3	9.99	1.40	1.32
1	N	317	U	N3-C4	9.99	1.47	1.38
1	N	1227	A	C8-N7	-9.98	1.24	1.31
1	N	182	A	C5-C4	9.98	1.45	1.38
1	N	741	G	C5-C4	9.97	1.45	1.38
1	N	1274	A	C6-N6	9.96	1.42	1.33
1	N	852	G	C6-N1	-9.95	1.32	1.39
1	N	867	G	N1-C2	9.95	1.45	1.37
1	N	1184	G	C6-N1	9.95	1.46	1.39
1	N	1331	G	C6-N1	-9.95	1.32	1.39
1	N	1175	G	C2-N2	9.94	1.44	1.34
1	N	1329	A	N3-C4	9.94	1.40	1.34
1	N	292	G	C6-N1	9.93	1.46	1.39
1	N	188	C	C2-N3	-9.93	1.27	1.35
1	N	348	G	C2-N3	9.92	1.40	1.32
1	N	520	A	N3-C4	-9.92	1.28	1.34
1	N	656	G	N9-C4	-9.92	1.30	1.38
1	N	1276	G	N7-C5	-9.91	1.33	1.39
1	N	1346	A	O3'-P	-9.91	1.49	1.61
1	N	1465	A	C6-N1	9.91	1.42	1.35
1	N	155	A	N3-C4	-9.91	1.28	1.34
1	N	1036	A	C6-N6	9.91	1.41	1.33
1	N	1182	G	C8-N7	-9.91	1.25	1.30
1	N	450	G	N9-C4	-9.90	1.30	1.38
1	N	817	C	O3'-P	-9.90	1.49	1.61
1	N	908	A	C6-N1	9.89	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1151	A	C8-N7	9.89	1.38	1.31
1	N	1167	A	C6-N6	9.88	1.41	1.33
1	N	1057	G	N3-C4	-9.88	1.28	1.35
1	N	759	A	N7-C5	-9.87	1.33	1.39
1	N	900	A	N9-C4	-9.87	1.31	1.37
1	N	540	G	C2-N3	9.85	1.40	1.32
1	N	1468	A	C2'-C1'	-9.85	1.42	1.53
1	N	684	U	C2-N3	9.85	1.44	1.37
1	N	1405	G	C2'-C1'	-9.85	1.42	1.53
1	N	1446	A	N7-C5	-9.84	1.33	1.39
1	N	703	G	N3-C4	-9.83	1.28	1.35
1	N	717	U	N3-C4	9.82	1.47	1.38
1	N	701	U	N3-C4	9.82	1.47	1.38
1	N	1084	G	C6-N1	9.82	1.46	1.39
1	N	1234	C	C2'-C1'	-9.82	1.42	1.53
1	N	567	G	C2-N3	9.82	1.40	1.32
1	N	1158	C	N1-C6	9.82	1.43	1.37
1	N	145	G	C3'-C2'	-9.81	1.42	1.52
1	N	1000	A	C6-N6	9.81	1.41	1.33
1	N	847	G	N7-C5	-9.81	1.33	1.39
1	N	1339	A	N9-C8	9.81	1.45	1.37
1	N	838	G	C2-N3	9.78	1.40	1.32
1	N	838	G	N3-C4	9.78	1.42	1.35
1	N	890	G	C2-N3	9.78	1.40	1.32
1	N	595	A	N7-C5	-9.78	1.33	1.39
1	N	1125	U	C2-N3	9.78	1.44	1.37
1	N	46	G	C6-N1	9.77	1.46	1.39
1	N	604	G	N9-C4	-9.77	1.30	1.38
1	N	1092	A	C3'-C2'	9.76	1.63	1.52
1	N	432	A	P-O5'	-9.76	1.50	1.59
1	N	61	G	N1-C2	9.75	1.45	1.37
1	N	496	A	N7-C5	-9.75	1.33	1.39
1	N	252	U	N3-C4	9.74	1.47	1.38
1	N	1014	A	N3-C4	9.74	1.40	1.34
1	N	1197	A	C8-N7	-9.74	1.24	1.31
1	N	1381	U	C2-N3	9.74	1.44	1.37
1	N	861	G	C6-N1	9.73	1.46	1.39
1	N	958	A	N7-C5	9.73	1.45	1.39
1	N	1378	C	C2-N3	9.73	1.43	1.35
1	N	1206	G	C8-N7	-9.73	1.25	1.30
1	N	443	C	C4'-C3'	9.72	1.63	1.53
1	N	417	G	C2-N3	9.72	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1062	U	C2'-C1'	-9.72	1.42	1.53
1	N	23	C	N3-C4	9.72	1.40	1.33
1	N	371	A	N1-C2	9.72	1.43	1.34
1	N	42	G	C2-N3	9.71	1.40	1.32
1	N	1531	A	C6-N6	9.71	1.41	1.33
1	N	535	A	C4'-O4'	-9.71	1.32	1.45
1	N	338	A	N9-C4	-9.70	1.32	1.37
1	N	1437	A	N9-C4	9.70	1.43	1.37
1	N	263	A	N7-C5	-9.70	1.33	1.39
1	N	652	U	C4-C5	9.70	1.52	1.43
1	N	343	U	P-O5'	-9.69	1.50	1.59
1	N	27	G	N3-C4	-9.68	1.28	1.35
1	N	486	U	C4-O4	-9.68	1.16	1.23
1	N	318	G	N1-C2	9.66	1.45	1.37
1	N	1068	G	C2-N3	9.66	1.40	1.32
1	N	744	C	N3-C4	9.66	1.40	1.33
1	N	1297	G	N9-C4	9.66	1.45	1.38
1	N	1396	A	N3-C4	-9.66	1.29	1.34
1	N	649	A	N9-C4	-9.65	1.32	1.37
1	N	721	G	N1-C2	9.65	1.45	1.37
1	N	1379	G	C6-N1	9.65	1.46	1.39
1	N	359	G	N9-C4	-9.64	1.30	1.38
1	N	882	C	N1-C6	9.64	1.43	1.37
1	N	1248	A	C6-N6	9.64	1.41	1.33
1	N	424	G	C2'-C1'	-9.63	1.42	1.53
1	N	35	G	N3-C4	9.63	1.42	1.35
1	N	101	A	N9-C8	9.62	1.45	1.37
1	N	773	G	C8-N7	9.62	1.36	1.30
1	N	991	U	P-O5'	-9.62	1.50	1.59
1	N	1374	A	N7-C5	-9.62	1.33	1.39
1	N	1111	A	C4'-C3'	9.60	1.63	1.53
1	N	889	A	N7-C5	-9.60	1.33	1.39
1	N	1016	A	C6-N1	9.60	1.42	1.35
1	N	48	C	N1-C6	-9.60	1.31	1.37
1	N	202	G	N9-C8	9.60	1.44	1.37
1	N	981	U	C2-N3	9.60	1.44	1.37
1	N	462	G	N1-C2	9.59	1.45	1.37
1	N	1347	G	C6-N1	9.59	1.46	1.39
1	N	1418	A	P-O5'	-9.59	1.50	1.59
1	N	1053	G	N9-C8	9.59	1.44	1.37
1	N	322	C	N3-C4	9.58	1.40	1.33
1	N	479	U	N1-C6	9.57	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	616	G	C6-N1	9.57	1.46	1.39
1	N	1483	A	C6-N1	9.56	1.42	1.35
1	N	19	A	N9-C8	9.56	1.45	1.37
1	N	683	G	N9-C4	-9.56	1.30	1.38
1	N	825	A	N3-C4	-9.56	1.29	1.34
1	N	760	G	C6-N1	-9.56	1.32	1.39
1	N	1276	G	P-O5'	-9.56	1.50	1.59
1	N	375	U	C2-N3	9.55	1.44	1.37
1	N	1386	G	N9-C8	9.55	1.44	1.37
1	N	814	A	C5-C4	-9.55	1.32	1.38
1	N	698	G	C8-N7	-9.54	1.25	1.30
1	N	921	U	N1-C6	9.54	1.46	1.38
1	N	1523	G	N1-C2	9.54	1.45	1.37
1	N	93	U	C2-N3	9.52	1.44	1.37
1	N	739	C	N3-C4	9.52	1.40	1.33
1	N	258	G	C2-N3	9.50	1.40	1.32
1	N	62	U	C2-N3	9.49	1.44	1.37
1	N	175	C	N1-C6	9.49	1.42	1.37
1	N	306	A	N3-C4	9.49	1.40	1.34
1	N	498	A	C6-N1	9.49	1.42	1.35
1	N	46	G	C8-N7	-9.48	1.25	1.30
1	N	1174	G	C6-N1	-9.48	1.32	1.39
1	N	1505	G	N1-C2	9.48	1.45	1.37
1	N	323	U	P-O5'	-9.48	1.50	1.59
1	N	352	C	C2-N3	9.48	1.43	1.35
1	N	1494	G	C2-N3	9.47	1.40	1.32
1	N	595	A	C5-C4	9.47	1.45	1.38
1	N	1518	A	N9-C4	9.47	1.43	1.37
1	N	1261	A	N9-C4	9.47	1.43	1.37
1	N	448	A	C6-N6	9.47	1.41	1.33
1	N	765	G	C2-N3	9.46	1.40	1.32
1	N	1081	A	N3-C4	9.46	1.40	1.34
1	N	5	U	C4-C5	9.45	1.52	1.43
1	N	933	G	N9-C4	-9.45	1.30	1.38
1	N	1495	U	C2-N3	9.45	1.44	1.37
1	N	460	A	N3-C4	-9.44	1.29	1.34
1	N	824	G	N9-C4	-9.45	1.30	1.38
1	N	1099	G	C2-N3	9.44	1.40	1.32
1	N	582	C	N3-C4	9.43	1.40	1.33
1	N	1348	U	C5'-C4'	9.43	1.62	1.51
1	N	530	G	N9-C8	9.43	1.44	1.37
1	N	161	A	C5-C6	9.42	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	452	A	N3-C4	-9.41	1.29	1.34
1	N	1356	G	N9-C4	-9.41	1.30	1.38
1	N	553	A	N7-C5	-9.41	1.33	1.39
1	N	1166	G	C5-C4	9.40	1.45	1.38
1	N	1338	G	C2-N3	9.40	1.40	1.32
1	N	1323	G	N7-C5	9.40	1.44	1.39
1	N	682	G	N7-C5	-9.40	1.33	1.39
1	N	691	G	C8-N7	-9.40	1.25	1.30
1	N	601	G	C2-N3	9.39	1.40	1.32
1	N	461	A	C5-C4	9.39	1.45	1.38
1	N	599	C	N1-C6	9.38	1.42	1.37
1	N	1534	A	C6-N1	9.38	1.42	1.35
1	N	669	G	N1-C2	9.38	1.45	1.37
1	N	986	U	N3-C4	9.38	1.46	1.38
1	N	1001	C	N3-C4	9.38	1.40	1.33
1	N	715	A	N7-C5	-9.38	1.33	1.39
1	N	79	G	C6-N1	9.37	1.46	1.39
1	N	831	A	C8-N7	-9.37	1.25	1.31
1	N	1184	G	P-O5'	-9.37	1.50	1.59
1	N	1392	G	P-O5'	-9.37	1.50	1.59
1	N	385	C	N3-C4	9.36	1.40	1.33
1	N	1363	A	N9-C4	9.36	1.43	1.37
1	N	371	A	C6-N6	9.35	1.41	1.33
1	N	1086	U	C5'-C4'	9.35	1.62	1.51
1	N	550	G	N1-C2	9.35	1.45	1.37
1	N	472	U	C2-N3	9.34	1.44	1.37
1	N	489	C	C4-C5	9.34	1.50	1.43
1	N	781	A	N7-C5	-9.34	1.33	1.39
1	N	453	G	N7-C5	-9.33	1.33	1.39
1	N	1215	G	C5-C6	-9.33	1.33	1.42
1	N	509	A	O3'-P	-9.33	1.50	1.61
1	N	478	A	N7-C5	-9.32	1.33	1.39
1	N	1365	G	N9-C4	9.32	1.45	1.38
1	N	1131	G	N1-C2	9.32	1.45	1.37
1	N	1115	U	C2-N3	9.32	1.44	1.37
1	N	1365	G	P-O5'	9.32	1.69	1.59
1	N	402	G	C6-N1	9.31	1.46	1.39
1	N	785	G	N1-C2	9.31	1.45	1.37
1	N	898	G	C5-C4	-9.31	1.31	1.38
1	N	1255	G	N7-C5	-9.30	1.33	1.39
1	N	1256	A	C5-C4	9.30	1.45	1.38
1	N	928	G	C6-N1	9.30	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1300	G	C2-N3	9.29	1.40	1.32
1	N	247	G	N7-C5	-9.29	1.33	1.39
1	N	335	C	N1-C6	9.29	1.42	1.37
1	N	864	A	N7-C5	-9.28	1.33	1.39
1	N	1492	A	C2-N3	9.28	1.41	1.33
1	N	623	C	N1-C6	9.27	1.42	1.37
1	N	117	G	C2-N3	9.27	1.40	1.32
1	N	30	U	C2-N3	9.26	1.44	1.37
1	N	559	A	C6-N6	9.26	1.41	1.33
1	N	1105	A	N3-C4	-9.26	1.29	1.34
1	N	1015	G	N3-C4	-9.26	1.28	1.35
1	N	270	A	C8-N7	-9.26	1.25	1.31
1	N	1417	G	C2'-C1'	-9.26	1.43	1.53
1	N	1288	A	C4'-C3'	9.25	1.63	1.53
1	N	605	U	N3-C4	9.25	1.46	1.38
1	N	1438	G	N9-C4	-9.25	1.30	1.38
1	N	1088	G	P-O5'	-9.24	1.50	1.59
1	N	352	C	O3'-P	-9.24	1.50	1.61
1	N	734	G	C5-C4	9.23	1.44	1.38
1	N	934	C	C3'-C2'	9.23	1.63	1.52
1	N	998	C	C4-N4	9.23	1.42	1.33
1	N	1418	A	C2-N3	9.22	1.41	1.33
1	N	539	A	N7-C5	-9.22	1.33	1.39
1	N	1215	G	C6-N1	9.20	1.46	1.39
1	N	1035	A	N1-C2	-9.20	1.26	1.34
1	N	485	U	C2-N3	9.20	1.44	1.37
1	N	318	G	N7-C5	-9.20	1.33	1.39
1	N	1434	A	C4'-C3'	-9.20	1.43	1.53
1	N	1013	G	N7-C5	-9.19	1.33	1.39
1	N	115	G	N1-C2	9.19	1.45	1.37
1	N	278	G	N7-C5	-9.19	1.33	1.39
1	N	890	G	C8-N7	-9.19	1.25	1.30
1	N	1386	G	N7-C5	-9.18	1.33	1.39
1	N	1241	G	N9-C4	-9.17	1.30	1.38
1	N	1370	G	N3-C4	-9.17	1.29	1.35
1	N	1420	U	O3'-P	-9.16	1.50	1.61
1	N	704	A	N9-C8	-9.15	1.30	1.37
1	N	468	A	O3'-P	-9.15	1.50	1.61
1	N	572	A	C2-N3	9.15	1.41	1.33
1	N	54	C	N1-C6	9.14	1.42	1.37
1	N	815	A	O3'-P	-9.14	1.50	1.61
1	N	1314	C	C2'-C1'	-9.14	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	151	A	N3-C4	9.13	1.40	1.34
1	N	781	A	N9-C4	-9.13	1.32	1.37
1	N	698	G	N7-C5	-9.13	1.33	1.39
1	N	444	G	N9-C8	9.13	1.44	1.37
1	N	1316	G	C3'-C2'	-9.13	1.42	1.52
1	N	1223	C	C4'-O4'	-9.12	1.33	1.45
1	N	359	G	N7-C5	-9.12	1.33	1.39
1	N	622	A	C6-N6	-9.12	1.26	1.33
1	N	265	G	N9-C8	-9.12	1.31	1.37
1	N	275	G	C2-N3	9.12	1.40	1.32
1	N	425	G	C8-N7	-9.11	1.25	1.30
1	N	1420	U	C4'-C3'	9.11	1.63	1.53
1	N	371	A	C6-N1	9.11	1.42	1.35
1	N	64	G	C6-N1	9.10	1.46	1.39
1	N	46	G	P-O5'	-9.10	1.50	1.59
1	N	614	C	N3-C4	9.10	1.40	1.33
1	N	1196	A	C6-N6	9.10	1.41	1.33
1	N	735	C	N3-C4	9.09	1.40	1.33
1	N	1298	U	C2-N3	9.09	1.44	1.37
1	N	947	G	N1-C2	9.09	1.45	1.37
1	N	787	A	C5-C4	9.07	1.45	1.38
1	N	1319	A	N7-C5	-9.07	1.33	1.39
1	N	258	G	N7-C5	-9.07	1.33	1.39
1	N	554	A	C2-N3	9.07	1.41	1.33
1	N	1207	G	N3-C4	-9.07	1.29	1.35
1	N	102	G	C8-N7	-9.07	1.25	1.30
1	N	787	A	N3-C4	-9.07	1.29	1.34
1	N	1360	A	C8-N7	-9.07	1.25	1.31
1	N	1388	C	C2-N3	-9.07	1.28	1.35
1	N	1230	C	N3-C4	9.06	1.40	1.33
1	N	40	C	N3-C4	9.06	1.40	1.33
1	N	1236	A	C5-C4	9.05	1.45	1.38
1	N	1087	G	N7-C5	-9.05	1.33	1.39
1	N	149	A	C6-N1	9.05	1.41	1.35
1	N	786	G	C2-N2	9.05	1.43	1.34
1	N	3	A	C5-C4	9.05	1.45	1.38
1	N	223	A	N9-C4	-9.04	1.32	1.37
1	N	193	C	N1-C6	9.03	1.42	1.37
1	N	1186	G	C6-N1	9.03	1.45	1.39
1	N	564	C	C4-N4	9.03	1.42	1.33
1	N	465	A	C5'-C4'	9.03	1.62	1.51
1	N	563	A	C6-N6	9.03	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	947	G	O3'-P	-9.03	1.50	1.61
1	N	639	G	N1-C2	9.02	1.45	1.37
1	N	851	G	N7-C5	-9.02	1.33	1.39
1	N	85	U	C2-N3	9.02	1.44	1.37
1	N	1142	G	C2-N3	9.02	1.40	1.32
1	N	127	G	C2-N3	9.01	1.40	1.32
1	N	741	G	C2-N2	9.01	1.43	1.34
1	N	934	C	N3-C4	9.01	1.40	1.33
1	N	1043	G	C5-C4	9.01	1.44	1.38
1	N	1131	G	N3-C4	-9.01	1.29	1.35
1	N	183	C	C4-N4	9.01	1.42	1.33
1	N	1294	G	C2-N2	9.00	1.43	1.34
1	N	792	A	O3'-P	-8.99	1.50	1.61
1	N	998	C	C5'-C4'	8.99	1.62	1.51
1	N	296	U	N3-C4	8.99	1.46	1.38
1	N	509	A	C6-N1	8.99	1.41	1.35
1	N	189	A	C8-N7	-8.99	1.25	1.31
1	N	156	C	N1-C6	8.98	1.42	1.37
1	N	280	C	N1-C6	8.97	1.42	1.37
1	N	1247	U	C2-N3	8.96	1.44	1.37
1	N	661	G	N7-C5	-8.96	1.33	1.39
1	N	187	G	C8-N7	8.96	1.36	1.30
1	N	417	G	N9-C4	-8.96	1.30	1.38
1	N	1058	G	O3'-P	-8.96	1.50	1.61
1	N	1464	U	O3'-P	-8.96	1.50	1.61
1	N	1288	A	O3'-P	-8.96	1.50	1.61
1	N	409	U	N1-C2	-8.96	1.30	1.38
1	N	1355	G	C5-C4	-8.95	1.32	1.38
1	N	1145	A	C8-N7	-8.95	1.25	1.31
1	N	560	A	N7-C5	-8.95	1.33	1.39
1	N	976	G	C6-N1	8.94	1.45	1.39
1	N	722	G	C5-C4	8.94	1.44	1.38
1	N	849	G	N7-C5	-8.94	1.33	1.39
1	N	902	G	N1-C2	8.94	1.45	1.37
1	N	1079	G	C2-N3	8.94	1.40	1.32
1	N	384	G	N9-C4	-8.93	1.30	1.38
1	N	521	G	C8-N7	-8.93	1.25	1.30
1	N	424	G	N1-C2	8.93	1.44	1.37
1	N	445	G	N7-C5	-8.93	1.33	1.39
1	N	1062	U	C2-N3	8.93	1.44	1.37
1	N	1337	G	C6-N1	8.92	1.45	1.39
1	N	848	C	N3-C4	8.92	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1100	C	C4-C5	8.92	1.50	1.43
1	N	53	A	C4'-C3'	8.92	1.62	1.53
1	N	693	G	C8-N7	-8.92	1.25	1.30
1	N	858	G	N1-C2	8.91	1.44	1.37
1	N	946	A	N7-C5	-8.91	1.33	1.39
1	N	135	C	P-O5'	-8.91	1.50	1.59
1	N	503	C	N3-C4	8.91	1.40	1.33
1	N	602	A	C6-N1	8.91	1.41	1.35
1	N	1276	G	C8-N7	-8.91	1.25	1.30
1	N	820	U	C4'-C3'	8.90	1.62	1.53
1	N	868	C	C2'-C1'	-8.90	1.43	1.53
1	N	281	G	O3'-P	-8.90	1.50	1.61
1	N	771	G	N7-C5	-8.90	1.33	1.39
1	N	1257	A	N7-C5	-8.89	1.33	1.39
1	N	1032	G	C6-N1	8.89	1.45	1.39
1	N	874	G	C2-N3	8.89	1.39	1.32
1	N	487	A	C5-C4	8.88	1.45	1.38
1	N	1121	U	C2'-C1'	-8.88	1.43	1.53
1	N	510	A	N9-C4	-8.88	1.32	1.37
1	N	1256	A	C6-N6	8.88	1.41	1.33
1	N	426	U	P-O5'	-8.88	1.50	1.59
1	N	1450	U	C4-C5	8.88	1.51	1.43
1	N	1464	U	C5'-C4'	8.87	1.61	1.51
1	N	628	G	C8-N7	-8.87	1.25	1.30
1	N	769	G	C4'-C3'	-8.87	1.43	1.53
1	N	974	A	C6-N1	8.87	1.41	1.35
1	N	878	A	N9-C8	8.85	1.44	1.37
1	N	1046	A	C6-N1	8.85	1.41	1.35
1	N	1154	G	C6-N1	8.85	1.45	1.39
1	N	1437	A	C5-C4	8.85	1.45	1.38
1	N	1533	C	C2-N3	8.84	1.42	1.35
1	N	932	C	N1-C6	8.84	1.42	1.37
1	N	77	A	N9-C8	-8.83	1.30	1.37
1	N	1047	G	C2-N3	8.83	1.39	1.32
1	N	1392	G	C6-N1	8.83	1.45	1.39
1	N	1002	G	C8-N7	-8.83	1.25	1.30
1	N	1441	A	C5-C4	8.83	1.45	1.38
1	N	32	A	N3-C4	-8.82	1.29	1.34
1	N	102	G	O3'-P	-8.82	1.50	1.61
1	N	364	A	N3-C4	-8.82	1.29	1.34
1	N	18	C	C5'-C4'	8.81	1.61	1.51
1	N	347	G	C5'-C4'	8.81	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	767	A	C6-N1	8.81	1.41	1.35
1	N	34	C	O4'-C1'	8.81	1.53	1.41
1	N	530	G	C6-N1	8.81	1.45	1.39
1	N	1138	G	O3'-P	-8.81	1.50	1.61
1	N	628	G	N7-C5	-8.80	1.33	1.39
1	N	1267	C	C1'-N1	8.80	1.61	1.48
1	N	92	U	C5'-C4'	8.79	1.61	1.51
1	N	843	U	O4'-C1'	8.79	1.53	1.41
1	N	416	G	C2-N3	8.79	1.39	1.32
1	N	1426	G	C5'-C4'	8.79	1.61	1.51
1	N	1486	G	C2-N3	8.79	1.39	1.32
1	N	941	G	C2-N3	8.78	1.39	1.32
1	N	1029	U	C2'-C1'	-8.78	1.43	1.53
1	N	1355	G	C8-N7	-8.78	1.25	1.30
1	N	540	G	C6-N1	8.78	1.45	1.39
1	N	199	A	N3-C4	-8.77	1.29	1.34
1	N	440	C	N1-C6	8.77	1.42	1.37
1	N	506	G	C2-N3	8.77	1.39	1.32
1	N	167	A	C6-N6	8.76	1.41	1.33
1	N	709	U	C4'-C3'	8.76	1.62	1.53
1	N	1127	G	C2'-C1'	-8.76	1.43	1.53
1	N	254	G	N9-C8	8.76	1.44	1.37
1	N	612	C	N3-C4	8.76	1.40	1.33
1	N	725	G	C6-N1	8.76	1.45	1.39
1	N	1288	A	C5-C4	8.76	1.44	1.38
1	N	573	A	C5'-C4'	8.75	1.61	1.51
1	N	827	U	C2-N3	8.75	1.43	1.37
1	N	122	G	N7-C5	-8.74	1.34	1.39
1	N	530	G	C8-N7	8.74	1.36	1.30
1	N	940	C	N1-C6	8.74	1.42	1.37
1	N	1208	C	C4'-C3'	-8.74	1.43	1.53
1	N	1201	A	N3-C4	-8.74	1.29	1.34
1	N	766	A	C6-N1	8.74	1.41	1.35
1	N	1446	A	C6-N6	8.74	1.41	1.33
1	N	136	C	N3-C4	8.73	1.40	1.33
1	N	706	A	C2'-C1'	-8.73	1.43	1.53
1	N	1223	C	N1-C6	-8.73	1.31	1.37
1	N	280	C	C2-N3	8.72	1.42	1.35
1	N	1003	G	C2-N3	8.72	1.39	1.32
1	N	1426	G	N9-C8	8.72	1.44	1.37
1	N	1494	G	C2-N2	8.72	1.43	1.34
1	N	704	A	C6-N6	8.72	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1499	A	N7-C5	-8.72	1.34	1.39
1	N	1328	C	N3-C4	8.71	1.40	1.33
1	N	368	U	C2-N3	8.71	1.43	1.37
1	N	1350	A	N9-C8	8.71	1.44	1.37
1	N	215	C	C4-N4	8.71	1.41	1.33
1	N	354	G	C2-N3	8.71	1.39	1.32
1	N	755	G	N1-C2	8.71	1.44	1.37
1	N	1231	G	C4'-C3'	8.71	1.62	1.53
1	N	177	G	C6-N1	8.70	1.45	1.39
1	N	1197	A	C2'-C1'	-8.70	1.43	1.53
1	N	964	A	C6-N6	8.70	1.41	1.33
1	N	563	A	N9-C8	-8.70	1.30	1.37
1	N	272	C	C2'-C1'	-8.69	1.43	1.53
1	N	818	G	C2-N3	8.69	1.39	1.32
1	N	608	A	C6-N6	8.68	1.40	1.33
1	N	1197	A	C6-N1	8.68	1.41	1.35
1	N	41	G	N1-C2	8.68	1.44	1.37
1	N	1104	G	N9-C8	8.68	1.44	1.37
1	N	1323	G	C4'-C3'	8.68	1.62	1.53
1	N	776	G	C5-C4	8.67	1.44	1.38
1	N	585	G	C6-N1	8.67	1.45	1.39
1	N	543	U	O3'-P	-8.67	1.50	1.61
1	N	769	G	O3'-P	-8.66	1.50	1.61
1	N	1129	C	C4-N4	8.66	1.41	1.33
1	N	47	C	N3-C4	8.66	1.40	1.33
1	N	1339	A	N7-C5	-8.65	1.34	1.39
1	N	915	A	N3-C4	-8.65	1.29	1.34
1	N	454	G	N7-C5	-8.64	1.34	1.39
1	N	139	A	N3-C4	-8.64	1.29	1.34
1	N	346	G	N7-C5	8.64	1.44	1.39
1	N	1231	G	P-O5'	-8.64	1.51	1.59
1	N	923	A	C2'-C1'	-8.63	1.43	1.53
1	N	1078	U	P-O5'	-8.63	1.51	1.59
1	N	1068	G	N7-C5	-8.63	1.34	1.39
1	N	78	A	C5-C4	8.63	1.44	1.38
1	N	272	C	C3'-C2'	8.62	1.62	1.52
1	N	878	A	C5-C4	8.62	1.44	1.38
1	N	222	C	C4-N4	8.62	1.41	1.33
1	N	776	G	C5'-C4'	8.62	1.61	1.51
1	N	1421	G	N1-C2	8.62	1.44	1.37
1	N	1360	A	C6-N1	8.61	1.41	1.35
1	N	536	C	N1-C6	-8.61	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1052	U	N1-C6	8.61	1.45	1.38
1	N	495	A	P-O5'	-8.60	1.51	1.59
1	N	683	G	C2-N3	8.60	1.39	1.32
1	N	1096	C	C2-N3	8.60	1.42	1.35
1	N	1349	A	N7-C5	-8.60	1.34	1.39
1	N	1267	C	C4'-C3'	8.60	1.62	1.53
1	N	1497	G	N3-C4	8.59	1.41	1.35
1	N	918	A	N3-C4	8.59	1.40	1.34
1	N	1343	G	C2-N3	8.59	1.39	1.32
1	N	222	C	N3-C4	8.58	1.40	1.33
1	N	425	G	C3'-O3'	8.58	1.54	1.42
1	N	61	G	C5-C4	-8.58	1.32	1.38
1	N	611	C	N3-C4	8.58	1.40	1.33
1	N	825	A	C5-C6	-8.57	1.33	1.41
1	N	1399	C	N1-C6	8.57	1.42	1.37
1	N	187	G	N7-C5	-8.57	1.34	1.39
1	N	1222	G	C8-N7	-8.56	1.25	1.30
1	N	1317	C	N3-C4	8.56	1.40	1.33
1	N	1473	G	N3-C4	-8.56	1.29	1.35
1	N	134	G	N7-C5	-8.55	1.34	1.39
1	N	473	U	C2-N3	8.55	1.43	1.37
1	N	575	G	N7-C5	-8.55	1.34	1.39
1	N	1406	U	N3-C4	8.55	1.46	1.38
1	N	129	A	N3-C4	-8.55	1.29	1.34
1	N	132	C	N3-C4	8.54	1.40	1.33
1	N	493	A	C6-N1	8.54	1.41	1.35
1	N	1037	C	N1-C6	8.55	1.42	1.37
1	N	1168	U	C2-N3	8.55	1.43	1.37
1	N	1521	C	C4-N4	8.54	1.41	1.33
1	N	914	A	C8-N7	-8.54	1.25	1.31
1	N	1455	G	C2-N3	8.54	1.39	1.32
1	N	21	G	C6-N1	8.53	1.45	1.39
1	N	939	G	C2-N2	8.53	1.43	1.34
1	N	351	G	N1-C2	8.53	1.44	1.37
1	N	837	U	C2-N3	8.53	1.43	1.37
1	N	892	A	C8-N7	-8.52	1.25	1.31
1	N	1473	G	N1-C2	8.52	1.44	1.37
1	N	449	G	N1-C2	8.52	1.44	1.37
1	N	718	A	C6-N1	8.52	1.41	1.35
1	N	1398	A	N7-C5	-8.52	1.34	1.39
1	N	585	G	N9-C4	-8.52	1.31	1.38
1	N	595	A	N9-C4	-8.52	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	451	A	C6-N1	8.51	1.41	1.35
1	N	936	C	C4'-C3'	-8.51	1.43	1.53
1	N	86	G	C5'-C4'	8.51	1.61	1.51
1	N	1102	A	C6-N1	-8.51	1.29	1.35
1	N	320	A	C5-C6	-8.51	1.33	1.41
1	N	1025	U	C4'-C3'	-8.51	1.43	1.53
1	N	968	A	C6-N6	8.51	1.40	1.33
1	N	656	G	N7-C5	-8.50	1.34	1.39
1	N	373	A	C2'-C1'	-8.50	1.44	1.53
1	N	725	G	N1-C2	8.50	1.44	1.37
1	N	274	A	C6-N6	8.50	1.40	1.33
1	N	1177	G	C4'-C3'	8.50	1.62	1.53
1	N	179	A	N9-C8	8.50	1.44	1.37
1	N	421	U	C3'-C2'	8.50	1.62	1.52
1	N	1131	G	C2-N2	8.50	1.43	1.34
1	N	953	G	P-O5'	-8.50	1.51	1.59
1	N	1447	A	O3'-P	-8.49	1.50	1.61
1	N	1279	G	N7-C5	-8.49	1.34	1.39
1	N	760	G	N1-C2	8.49	1.44	1.37
1	N	958	A	C6-N6	8.49	1.40	1.33
1	N	178	C	N1-C6	8.48	1.42	1.37
1	N	1007	U	C1'-N1	8.48	1.61	1.48
1	N	608	A	C5'-C4'	8.48	1.61	1.51
1	N	749	A	C8-N7	-8.48	1.25	1.31
1	N	184	G	C5-C6	-8.47	1.33	1.42
1	N	369	G	C6-N1	8.47	1.45	1.39
1	N	1363	A	C5'-C4'	8.47	1.61	1.51
1	N	165	G	C4'-C3'	-8.47	1.43	1.53
1	N	532	A	C6-N6	8.47	1.40	1.33
1	N	584	G	C6-N1	8.46	1.45	1.39
1	N	670	G	N9-C8	-8.46	1.31	1.37
1	N	651	C	C4-N4	8.46	1.41	1.33
1	N	1182	G	C2-N3	8.46	1.39	1.32
1	N	716	A	N9-C4	-8.45	1.32	1.37
1	N	1404	C	C4-N4	8.45	1.41	1.33
1	N	143	A	C8-N7	8.45	1.37	1.31
1	N	521	G	N1-C2	8.44	1.44	1.37
1	N	833	G	C6-N1	8.44	1.45	1.39
1	N	876	C	C4'-C3'	8.44	1.62	1.53
1	N	1517	G	C6-N1	8.44	1.45	1.39
1	N	327	A	N7-C5	-8.44	1.34	1.39
1	N	1339	A	P-O5'	-8.44	1.51	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	452	A	N7-C5	-8.44	1.34	1.39
1	N	823	C	C2'-C1'	-8.44	1.44	1.53
1	N	1225	A	N7-C5	-8.43	1.34	1.39
1	N	559	A	C6-N1	8.43	1.41	1.35
1	N	1349	A	N9-C4	-8.43	1.32	1.37
1	N	1458	G	N9-C8	8.42	1.43	1.37
1	N	53	A	N9-C4	8.42	1.43	1.37
1	N	164	G	C2-N3	8.42	1.39	1.32
1	N	424	G	N7-C5	-8.42	1.34	1.39
1	N	1033	G	C8-N7	-8.42	1.25	1.30
1	N	937	A	C4'-C3'	8.42	1.62	1.53
1	N	565	U	C2-N3	8.42	1.43	1.37
1	N	1424	U	C3'-C2'	8.42	1.62	1.52
1	N	920	U	N1-C6	8.41	1.45	1.38
1	N	872	A	O3'-P	-8.41	1.51	1.61
1	N	993	G	C2'-C1'	-8.41	1.44	1.53
1	N	356	A	N7-C5	-8.41	1.34	1.39
1	N	1316	G	C5-C4	8.41	1.44	1.38
1	N	279	A	N1-C2	-8.40	1.26	1.34
1	N	724	G	C8-N7	-8.40	1.25	1.30
1	N	1491	G	C2-N3	8.40	1.39	1.32
1	N	541	G	N9-C8	-8.40	1.31	1.37
1	N	1072	G	O4'-C1'	-8.40	1.30	1.41
1	N	1101	A	O3'-P	-8.40	1.51	1.61
1	N	1108	G	C6-N1	8.40	1.45	1.39
1	N	548	G	C6-N1	8.39	1.45	1.39
1	N	1050	G	N1-C2	8.39	1.44	1.37
1	N	457	G	C2-N3	8.39	1.39	1.32
1	N	660	C	C2'-C1'	-8.39	1.44	1.53
1	N	1387	G	N3-C4	8.39	1.41	1.35
1	N	633	G	C8-N7	-8.38	1.25	1.30
1	N	869	G	P-O5'	-8.39	1.51	1.59
1	N	1126	U	C2-N3	8.38	1.43	1.37
1	N	985	C	P-O5'	-8.37	1.51	1.59
1	N	1438	G	N7-C5	-8.37	1.34	1.39
1	N	119	A	C5-C6	-8.37	1.33	1.41
1	N	616	G	P-O5'	-8.37	1.51	1.59
1	N	1191	A	N9-C4	8.36	1.42	1.37
1	N	1387	G	C5-C4	8.36	1.44	1.38
1	N	797	C	P-O5'	8.36	1.68	1.59
1	N	145	G	N9-C8	8.36	1.43	1.37
1	N	944	G	C6-N1	8.36	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1238	A	N7-C5	-8.36	1.34	1.39
1	N	1289	A	N3-C4	-8.36	1.29	1.34
1	N	206	C	N3-C4	8.35	1.39	1.33
1	N	197	A	C4'-C3'	8.35	1.62	1.53
1	N	1487	G	N7-C5	-8.35	1.34	1.39
1	N	264	C	P-O5'	-8.34	1.51	1.59
1	N	600	A	C6-N6	8.34	1.40	1.33
1	N	53	A	C8-N7	8.34	1.37	1.31
1	N	624	C	C2-N3	8.34	1.42	1.35
1	N	804	U	C2-N3	8.33	1.43	1.37
1	N	1340	A	C2'-C1'	-8.33	1.44	1.53
1	N	241	G	C2-N3	8.33	1.39	1.32
1	N	355	C	P-O5'	-8.32	1.51	1.59
1	N	645	G	C2'-C1'	-8.32	1.44	1.53
1	N	695	A	C6-N1	-8.32	1.29	1.35
1	N	695	A	N3-C4	-8.32	1.29	1.34
1	N	1288	A	N9-C8	-8.32	1.31	1.37
1	N	227	G	C4'-C3'	8.31	1.62	1.53
1	N	669	G	N7-C5	-8.31	1.34	1.39
1	N	1176	A	N9-C8	-8.31	1.31	1.37
1	N	292	G	N7-C5	-8.31	1.34	1.39
1	N	803	G	C5'-C4'	8.31	1.61	1.51
1	N	1080	A	N9-C4	-8.31	1.32	1.37
1	N	218	U	C2-N3	8.30	1.43	1.37
1	N	255	G	N3-C4	-8.30	1.29	1.35
1	N	913	A	N9-C8	8.29	1.44	1.37
1	N	1297	G	N7-C5	-8.29	1.34	1.39
1	N	1518	A	N7-C5	-8.29	1.34	1.39
1	N	649	A	C6-N6	8.29	1.40	1.33
1	N	772	U	C2-N3	8.29	1.43	1.37
1	N	1424	U	C5-C6	8.29	1.41	1.34
1	N	1260	G	C8-N7	8.29	1.35	1.30
1	N	394	G	N9-C8	8.28	1.43	1.37
1	N	1018	G	N3-C4	-8.28	1.29	1.35
1	N	819	A	C6-N6	8.28	1.40	1.33
1	N	129	A	C6-N1	8.27	1.41	1.35
1	N	1477	U	C4-O4	8.27	1.30	1.23
1	N	329	A	C6-N1	8.27	1.41	1.35
1	N	1090	U	N3-C4	8.27	1.45	1.38
1	N	1165	U	C5'-C4'	8.27	1.61	1.51
1	N	1385	G	N1-C2	8.27	1.44	1.37
1	N	18	C	N1-C6	8.26	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	403	C	N3-C4	8.26	1.39	1.33
1	N	506	G	N9-C8	8.26	1.43	1.37
1	N	1337	G	P-O5'	-8.26	1.51	1.59
1	N	1442	G	C5'-C4'	8.26	1.61	1.51
1	N	200	G	C8-N7	8.26	1.35	1.30
1	N	284	C	N3-C4	8.26	1.39	1.33
1	N	635	A	N3-C4	-8.26	1.29	1.34
1	N	958	A	C6-N1	8.25	1.41	1.35
1	N	1502	A	C4'-O4'	-8.25	1.34	1.45
1	N	1061	G	C6-N1	8.25	1.45	1.39
1	N	336	A	C4'-C3'	8.25	1.62	1.53
1	N	455	G	C5-C4	8.25	1.44	1.38
1	N	106	C	N3-C4	8.24	1.39	1.33
1	N	218	U	N3-C4	8.24	1.45	1.38
1	N	412	A	N7-C5	8.24	1.44	1.39
1	N	1244	G	O3'-P	-8.23	1.51	1.61
1	N	606	G	N3-C4	-8.23	1.29	1.35
1	N	1259	C	N3-C4	8.22	1.39	1.33
1	N	796	C	N3-C4	8.22	1.39	1.33
1	N	1049	U	N3-C4	8.22	1.45	1.38
1	N	197	A	O3'-P	-8.22	1.51	1.61
1	N	257	G	N7-C5	-8.22	1.34	1.39
1	N	566	G	C6-N1	-8.21	1.33	1.39
1	N	438	U	C3'-C2'	8.21	1.61	1.52
1	N	362	G	N7-C5	-8.21	1.34	1.39
1	N	682	G	N9-C4	-8.21	1.31	1.38
1	N	768	A	N7-C5	-8.21	1.34	1.39
1	N	1126	U	C5'-C4'	8.20	1.61	1.51
1	N	85	U	C5'-C4'	8.20	1.61	1.51
1	N	352	C	N3-C4	8.20	1.39	1.33
1	N	1264	U	P-O5'	-8.20	1.51	1.59
1	N	1363	A	C6-N6	8.20	1.40	1.33
1	N	477	C	C2-N3	8.20	1.42	1.35
1	N	599	C	N3-C4	8.19	1.39	1.33
1	N	432	A	O3'-P	-8.19	1.51	1.61
1	N	1416	G	C6-N1	8.19	1.45	1.39
1	N	181	A	N9-C4	-8.18	1.32	1.37
1	N	575	G	C2-N3	-8.18	1.26	1.32
1	N	279	A	C2-N3	8.18	1.41	1.33
1	N	773	G	C5-C4	-8.18	1.32	1.38
1	N	780	A	C4'-C3'	8.18	1.62	1.53
1	N	801	U	C2-N3	8.18	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1443	C	C4-N4	8.18	1.41	1.33
1	N	1461	G	C5-C6	-8.18	1.34	1.42
1	N	1500	A	C2'-C1'	-8.18	1.44	1.53
1	N	202	G	N9-C4	-8.18	1.31	1.38
1	N	248	C	N1-C6	8.17	1.42	1.37
1	N	317	U	N1-C6	8.17	1.45	1.38
1	N	1098	C	C4-N4	8.17	1.41	1.33
1	N	351	G	C5-C4	8.17	1.44	1.38
1	N	590	U	C2-N3	8.17	1.43	1.37
1	N	614	C	N1-C6	-8.17	1.32	1.37
1	N	1038	C	N1-C6	8.16	1.42	1.37
1	N	356	A	C4'-C3'	8.16	1.62	1.53
1	N	347	G	C5-C4	8.16	1.44	1.38
1	N	1229	A	C5-C4	8.16	1.44	1.38
1	N	1312	G	C2-N3	8.16	1.39	1.32
1	N	884	U	C2-N3	8.15	1.43	1.37
1	N	1314	C	N1-C6	8.15	1.42	1.37
1	N	713	G	O3'-P	-8.15	1.51	1.61
1	N	741	G	C6-N1	8.15	1.45	1.39
1	N	1058	G	C6-N1	8.15	1.45	1.39
1	N	38	G	C2-N3	8.15	1.39	1.32
1	N	48	C	N3-C4	8.14	1.39	1.33
1	N	1015	G	C4'-C3'	8.14	1.62	1.53
1	N	201	G	N9-C4	-8.14	1.31	1.38
1	N	1021	A	C8-N7	-8.14	1.25	1.31
1	N	1449	C	N3-C4	8.14	1.39	1.33
1	N	172	A	N9-C8	8.13	1.44	1.37
1	N	133	U	N3-C4	8.13	1.45	1.38
1	N	748	G	C2-N3	8.13	1.39	1.32
1	N	1343	G	N9-C4	-8.13	1.31	1.38
1	N	1373	G	N1-C2	8.13	1.44	1.37
1	N	180	U	C1'-N1	8.13	1.60	1.48
1	N	283	U	N3-C4	8.13	1.45	1.38
1	N	1415	G	C8-N7	-8.13	1.26	1.30
1	N	57	G	N7-C5	-8.12	1.34	1.39
1	N	108	G	N3-C4	-8.12	1.29	1.35
1	N	171	A	C6-N1	8.12	1.41	1.35
1	N	1026	G	N7-C5	-8.12	1.34	1.39
1	N	717	U	C5'-C4'	8.12	1.61	1.51
1	N	513	C	N3-C4	8.12	1.39	1.33
1	N	1099	G	C5-C4	-8.12	1.32	1.38
1	N	1319	A	N3-C4	-8.12	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	93	U	C4-O4	-8.11	1.17	1.23
1	N	1136	C	N1-C6	8.11	1.42	1.37
1	N	1281	C	O3'-P	-8.11	1.51	1.61
1	N	938	A	C5'-C4'	8.11	1.61	1.51
1	N	1073	U	C5-C6	8.11	1.41	1.34
1	N	452	A	N1-C2	8.11	1.41	1.34
1	N	1159	U	N1-C6	-8.11	1.30	1.38
1	N	1352	C	C5'-C4'	8.11	1.61	1.51
1	N	1353	G	C2'-C1'	-8.11	1.44	1.53
1	N	486	U	C4-C5	8.11	1.50	1.43
1	N	575	G	N1-C2	8.11	1.44	1.37
1	N	655	A	C2'-C1'	-8.10	1.44	1.53
1	N	1503	A	C6-N1	8.10	1.41	1.35
1	N	218	U	N1-C6	8.10	1.45	1.38
1	N	377	G	N9-C4	-8.10	1.31	1.38
1	N	1079	G	C8-N7	-8.10	1.26	1.30
1	N	185	U	C2'-O2'	-8.09	1.31	1.41
1	N	1496	C	N1-C6	8.09	1.42	1.37
1	N	40	C	C2-N3	8.08	1.42	1.35
1	N	130	A	N1-C2	-8.08	1.27	1.34
1	N	1368	A	C6-N1	8.08	1.41	1.35
1	N	302	G	C8-N7	8.08	1.35	1.30
1	N	975	A	C6-N6	8.08	1.40	1.33
1	N	1044	A	C5'-C4'	8.07	1.61	1.51
1	N	765	G	O3'-P	-8.07	1.51	1.61
1	N	1296	C	C4-N4	8.07	1.41	1.33
1	N	1307	U	N3-C4	8.07	1.45	1.38
1	N	833	G	C5'-C4'	8.07	1.61	1.51
1	N	1513	A	C2'-C1'	8.07	1.62	1.53
1	N	1019	A	N7-C5	-8.06	1.34	1.39
1	N	1106	G	N9-C8	8.06	1.43	1.37
1	N	1425	U	C2'-C1'	-8.06	1.44	1.53
1	N	265	G	C4'-C3'	-8.05	1.44	1.53
1	N	807	A	N9-C4	-8.06	1.33	1.37
1	N	938	A	C6-N1	8.05	1.41	1.35
1	N	906	A	N9-C4	8.05	1.42	1.37
1	N	1154	G	C2-N3	8.05	1.39	1.32
1	N	1308	U	C2-N3	8.05	1.43	1.37
1	N	347	G	N7-C5	-8.05	1.34	1.39
1	N	8	A	N9-C8	8.04	1.44	1.37
1	N	539	A	C5-C6	-8.05	1.33	1.41
1	N	923	A	O4'-C1'	8.04	1.52	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1193	G	N9-C8	8.04	1.43	1.37
1	N	490	C	O4'-C1'	8.04	1.52	1.41
1	N	1253	G	C5'-C4'	8.04	1.61	1.51
1	N	397	A	C2-N3	8.04	1.40	1.33
1	N	10	A	C5-C4	8.04	1.44	1.38
1	N	711	G	N9-C4	-8.04	1.31	1.38
1	N	904	U	O3'-P	-8.04	1.51	1.61
1	N	1344	C	C4-N4	8.04	1.41	1.33
1	N	360	G	C2'-C1'	-8.03	1.44	1.53
1	N	1316	G	C6-N1	-8.03	1.33	1.39
1	N	1398	A	C6-N6	8.03	1.40	1.33
1	N	187	G	C4'-O4'	-8.03	1.35	1.45
1	N	906	A	C4'-C3'	8.03	1.61	1.53
1	N	151	A	N7-C5	-8.02	1.34	1.39
1	N	153	C	C2-N3	-8.02	1.29	1.35
1	N	413	G	C2-N3	8.02	1.39	1.32
1	N	137	U	N1-C6	8.02	1.45	1.38
1	N	1405	G	N9-C4	-8.02	1.31	1.38
1	N	807	A	O3'-P	-8.02	1.51	1.61
1	N	1160	G	C2-N3	8.02	1.39	1.32
1	N	1242	G	C3'-O3'	8.02	1.53	1.42
1	N	802	A	C5-C4	-8.01	1.33	1.38
1	N	295	C	C5'-C4'	8.01	1.60	1.51
1	N	1039	G	C5-C6	-8.01	1.34	1.42
1	N	1260	G	C4'-O4'	-8.01	1.35	1.45
1	N	1292	G	N1-C2	8.01	1.44	1.37
1	N	846	G	C4'-C3'	8.00	1.61	1.53
1	N	622	A	C5'-C4'	8.00	1.60	1.51
1	N	173	U	C4-C5	8.00	1.50	1.43
1	N	1376	U	C4'-C3'	8.00	1.61	1.53
1	N	2	A	C6-N6	7.99	1.40	1.33
1	N	215	C	N1-C6	7.99	1.42	1.37
1	N	566	G	N9-C8	-7.99	1.32	1.37
1	N	1421	G	N7-C5	-7.99	1.34	1.39
1	N	357	G	N7-C5	-7.99	1.34	1.39
1	N	1146	A	C6-N6	7.99	1.40	1.33
1	N	33	A	C2'-C1'	-7.99	1.44	1.53
1	N	247	G	C5-C4	7.99	1.44	1.38
1	N	430	A	N9-C8	-7.98	1.31	1.37
1	N	1058	G	C5'-C4'	7.98	1.60	1.51
1	N	726	C	P-O5'	-7.98	1.51	1.59
1	N	1147	C	N3-C4	7.98	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	134	G	N3-C4	-7.97	1.29	1.35
1	N	1415	G	N3-C4	-7.97	1.29	1.35
1	N	327	A	N3-C4	-7.97	1.30	1.34
1	N	903	G	C1'-N9	7.97	1.60	1.48
1	N	1015	G	C2'-C1'	-7.97	1.44	1.53
1	N	1290	G	N7-C5	-7.97	1.34	1.39
1	N	1020	G	C2-N2	7.96	1.42	1.34
1	N	158	G	P-O5'	-7.96	1.51	1.59
1	N	478	A	C6-N6	7.96	1.40	1.33
1	N	1206	G	C2-N3	7.96	1.39	1.32
1	N	197	A	N9-C8	-7.96	1.31	1.37
1	N	457	G	N3-C4	-7.96	1.29	1.35
1	N	675	A	C4'-C3'	7.96	1.61	1.53
1	N	779	C	N1-C6	7.96	1.42	1.37
1	N	1127	G	N9-C4	-7.96	1.31	1.38
1	N	1393	U	N3-C4	7.96	1.45	1.38
1	N	387	U	N3-C4	7.95	1.45	1.38
1	N	712	A	C5-C4	7.95	1.44	1.38
1	N	1461	G	C4'-C3'	7.95	1.61	1.53
1	N	1328	C	C5'-C4'	7.95	1.60	1.51
1	N	1032	G	P-O5'	-7.95	1.51	1.59
1	N	600	A	C6-N1	7.95	1.41	1.35
1	N	635	A	C8-N7	-7.94	1.25	1.31
1	N	86	G	N7-C5	-7.94	1.34	1.39
1	N	566	G	C8-N7	7.94	1.35	1.30
1	N	994	A	N7-C5	-7.94	1.34	1.39
1	N	711	G	N7-C5	-7.94	1.34	1.39
1	N	1039	G	C2-N3	7.94	1.39	1.32
1	N	1330	U	C2-N3	7.94	1.43	1.37
1	N	469	C	N1-C6	7.93	1.42	1.37
1	N	698	G	P-O5'	-7.93	1.51	1.59
1	N	622	A	C8-N7	7.93	1.37	1.31
1	N	860	A	C6-N1	7.93	1.41	1.35
1	N	126	G	N7-C5	7.93	1.44	1.39
1	N	287	U	O3'-P	-7.93	1.51	1.61
1	N	1184	G	N1-C2	7.93	1.44	1.37
1	N	1401	G	N7-C5	-7.93	1.34	1.39
1	N	1460	C	N3-C4	7.93	1.39	1.33
1	N	1194	U	O3'-P	-7.93	1.51	1.61
1	N	339	C	C2'-C1'	-7.93	1.44	1.53
1	N	348	G	C6-N1	7.92	1.45	1.39
1	N	1268	G	C2'-C1'	-7.92	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	408	A	C5-C4	7.92	1.44	1.38
1	N	289	G	N1-C2	7.92	1.44	1.37
1	N	192	A	N7-C5	-7.91	1.34	1.39
1	N	1472	U	C2-N3	-7.91	1.32	1.37
1	N	794	A	C6-N6	7.91	1.40	1.33
1	N	172	A	C3'-O3'	-7.91	1.31	1.42
1	N	229	U	C2'-C1'	-7.91	1.44	1.53
1	N	1234	C	N1-C6	7.90	1.41	1.37
1	N	582	C	N1-C6	7.90	1.41	1.37
1	N	1201	A	C2'-C1'	-7.90	1.44	1.53
1	N	1302	C	C4'-O4'	7.90	1.55	1.45
1	N	696	A	C6-N6	7.90	1.40	1.33
1	N	833	G	C2'-C1'	-7.90	1.44	1.53
1	N	296	U	P-O5'	-7.90	1.51	1.59
1	N	51	A	C4'-C3'	-7.89	1.44	1.53
1	N	510	A	N3-C4	-7.89	1.30	1.34
1	N	901	A	C6-N1	7.89	1.41	1.35
1	N	1166	G	N9-C4	-7.89	1.31	1.38
1	N	1175	G	N1-C2	7.89	1.44	1.37
1	N	22	G	C2-N3	7.89	1.39	1.32
1	N	64	G	O3'-P	-7.89	1.51	1.61
1	N	64	G	C8-N7	-7.89	1.26	1.30
1	N	109	A	N9-C4	7.89	1.42	1.37
1	N	616	G	C5-C4	-7.89	1.32	1.38
1	N	1067	A	N9-C8	7.89	1.44	1.37
1	N	932	C	N3-C4	7.89	1.39	1.33
1	N	1323	G	N9-C4	-7.89	1.31	1.38
1	N	68	G	C5-C6	-7.88	1.34	1.42
1	N	1492	A	N9-C8	7.88	1.44	1.37
1	N	206	C	C4-C5	7.88	1.49	1.43
1	N	1385	G	N7-C5	-7.88	1.34	1.39
1	N	108	G	C6-N1	7.88	1.45	1.39
1	N	776	G	O4'-C1'	7.87	1.51	1.41
1	N	1060	U	C4'-C3'	-7.87	1.44	1.53
1	N	874	G	C2'-C1'	-7.87	1.44	1.53
1	N	1281	C	N1-C6	-7.87	1.32	1.37
1	N	22	G	C6-N1	7.86	1.45	1.39
1	N	269	C	N3-C4	-7.86	1.28	1.33
1	N	1387	G	N1-C2	7.86	1.44	1.37
1	N	713	G	C5-C4	7.86	1.43	1.38
1	N	935	A	N3-C4	-7.86	1.30	1.34
1	N	1286	U	N1-C6	7.86	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	885	G	C5-C6	-7.86	1.34	1.42
1	N	105	G	C8-N7	7.86	1.35	1.30
1	N	776	G	C8-N7	-7.86	1.26	1.30
1	N	873	A	N7-C5	-7.86	1.34	1.39
1	N	1177	G	C6-N1	7.86	1.45	1.39
1	N	739	C	C3'-O3'	7.85	1.53	1.42
1	N	915	A	N7-C5	-7.85	1.34	1.39
1	N	1167	A	C5-C4	7.85	1.44	1.38
1	N	1435	G	C6-N1	7.85	1.45	1.39
1	N	114	U	C2-N3	7.85	1.43	1.37
1	N	654	G	C2-N3	7.85	1.39	1.32
1	N	1338	G	C6-N1	7.85	1.45	1.39
1	N	1473	G	N7-C5	-7.85	1.34	1.39
1	N	725	G	N9-C8	7.85	1.43	1.37
1	N	982	U	C1'-N1	7.84	1.60	1.48
1	N	198	G	C4'-C3'	7.84	1.61	1.53
1	N	777	A	C5-C4	7.84	1.44	1.38
1	N	465	A	C5-C4	7.84	1.44	1.38
1	N	506	G	C8-N7	-7.84	1.26	1.30
1	N	1029	U	C4'-O4'	7.84	1.55	1.45
1	N	364	A	N9-C8	-7.83	1.31	1.37
1	N	790	A	N7-C5	-7.83	1.34	1.39
1	N	1243	C	N1-C2	7.83	1.48	1.40
1	N	410	G	N9-C4	-7.83	1.31	1.38
1	N	597	G	N1-C2	7.83	1.44	1.37
1	N	973	G	C2'-C1'	-7.83	1.44	1.53
1	N	1102	A	C5-C4	7.83	1.44	1.38
1	N	1035	A	C6-N1	7.82	1.41	1.35
1	N	1287	A	C2-N3	7.82	1.40	1.33
1	N	671	G	C2-N2	7.82	1.42	1.34
1	N	1325	C	C2'-O2'	-7.82	1.31	1.41
1	N	628	G	N3-C4	-7.82	1.29	1.35
1	N	715	A	C8-N7	-7.82	1.26	1.31
1	N	259	G	C8-N7	-7.82	1.26	1.30
1	N	295	C	C4-N4	7.82	1.41	1.33
1	N	834	U	C2-N3	7.82	1.43	1.37
1	N	1054	C	C4-N4	7.82	1.41	1.33
1	N	1295	U	N3-C4	7.82	1.45	1.38
1	N	258	G	C3'-C2'	-7.81	1.44	1.52
1	N	757	U	C2-N3	7.81	1.43	1.37
1	N	771	G	C8-N7	-7.81	1.26	1.30
1	N	77	A	N9-C4	-7.80	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	567	G	N1-C2	7.80	1.44	1.37
1	N	26	A	C6-N6	7.80	1.40	1.33
1	N	1409	C	N1-C6	-7.80	1.32	1.37
1	N	795	C	N3-C4	7.80	1.39	1.33
1	N	150	U	C5'-C4'	7.80	1.60	1.51
1	N	675	A	C6-N6	7.80	1.40	1.33
1	N	53	A	C6-N1	7.79	1.41	1.35
1	N	601	G	C5'-C4'	7.79	1.60	1.51
1	N	242	G	N1-C2	7.79	1.44	1.37
1	N	1419	G	C8-N7	-7.79	1.26	1.30
1	N	599	C	C4-N4	7.79	1.41	1.33
1	N	1171	A	C3'-C2'	-7.79	1.44	1.52
1	N	851	G	C5'-C4'	7.79	1.60	1.51
1	N	987	G	P-O5'	-7.79	1.51	1.59
1	N	1171	A	C6-N6	7.79	1.40	1.33
1	N	1389	C	C4'-C3'	7.79	1.61	1.53
1	N	1101	A	N7-C5	-7.79	1.34	1.39
1	N	1236	A	P-O5'	-7.79	1.51	1.59
1	N	1247	U	C5'-C4'	7.79	1.60	1.51
1	N	153	C	C2'-C1'	-7.78	1.44	1.53
1	N	688	G	C8-N7	-7.78	1.26	1.30
1	N	942	G	C2-N3	7.78	1.39	1.32
1	N	31	G	N3-C4	7.78	1.40	1.35
1	N	1496	C	N3-C4	7.78	1.39	1.33
1	N	104	G	C5-C4	7.78	1.43	1.38
1	N	748	G	C6-N1	-7.77	1.34	1.39
1	N	63	C	N1-C6	7.77	1.41	1.37
1	N	458	U	C4-C5	7.77	1.50	1.43
1	N	215	C	C2'-C1'	-7.77	1.44	1.53
1	N	443	C	N3-C4	7.77	1.39	1.33
1	N	1417	G	C2-N3	7.77	1.39	1.32
1	N	1156	G	O4'-C1'	-7.77	1.31	1.41
1	N	1401	G	C6-N1	7.77	1.45	1.39
1	N	33	A	O3'-P	-7.77	1.51	1.61
1	N	172	A	O3'-P	-7.76	1.51	1.61
1	N	1311	A	C5'-C4'	7.76	1.60	1.51
1	N	1506	U	C4-C5	7.76	1.50	1.43
1	N	589	U	C2'-C1'	-7.76	1.44	1.53
1	N	1214	C	N3-C4	7.76	1.39	1.33
1	N	1482	G	N7-C5	-7.76	1.34	1.39
1	N	34	C	C2-N3	7.76	1.42	1.35
1	N	737	C	C4-N4	7.75	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	943	U	C5'-C4'	7.75	1.60	1.51
1	N	210	C	C2-N3	7.75	1.42	1.35
1	N	1435	G	C2-N2	7.75	1.42	1.34
1	N	890	G	C6-N1	7.75	1.45	1.39
1	N	1457	G	C8-N7	-7.75	1.26	1.30
1	N	220	G	C5-C4	-7.74	1.32	1.38
1	N	743	A	N3-C4	7.74	1.39	1.34
1	N	1424	U	C4-C5	-7.74	1.36	1.43
1	N	862	C	P-O5'	-7.74	1.52	1.59
1	N	292	G	N3-C4	7.74	1.40	1.35
1	N	869	G	C6-N1	7.74	1.45	1.39
1	N	1190	G	C4'-O4'	7.74	1.55	1.45
1	N	913	A	N3-C4	-7.73	1.30	1.34
1	N	1484	C	C2-N3	7.73	1.42	1.35
1	N	31	G	N7-C5	-7.72	1.34	1.39
1	N	302	G	N1-C2	7.72	1.44	1.37
1	N	224	U	C2-N3	7.72	1.43	1.37
1	N	513	C	N1-C6	7.72	1.41	1.37
1	N	1483	A	N7-C5	-7.72	1.34	1.39
1	N	120	A	C5-C4	7.71	1.44	1.38
1	N	207	C	C2-N3	7.71	1.42	1.35
1	N	217	C	N3-C4	7.71	1.39	1.33
1	N	705	G	N1-C2	7.71	1.44	1.37
1	N	1073	U	N1-C2	7.71	1.45	1.38
1	N	286	C	C2'-C1'	7.71	1.61	1.53
1	N	462	G	C4'-C3'	7.71	1.61	1.53
1	N	238	A	C6-N6	7.70	1.40	1.33
1	N	45	G	N7-C5	-7.70	1.34	1.39
1	N	305	G	N1-C2	7.70	1.44	1.37
1	N	1304	G	N7-C5	-7.70	1.34	1.39
1	N	331	G	C4'-C3'	7.70	1.61	1.53
1	N	1055	A	C6-N1	7.69	1.41	1.35
1	N	1070	U	N3-C4	7.69	1.45	1.38
1	N	240	G	C5-C6	-7.69	1.34	1.42
1	N	1504	G	O4'-C1'	7.69	1.51	1.41
1	N	662	U	C2-N3	7.69	1.43	1.37
1	N	859	G	P-O5'	-7.69	1.52	1.59
1	N	1157	A	N3-C4	7.69	1.39	1.34
1	N	134	G	N9-C8	7.69	1.43	1.37
1	N	174	A	N3-C4	-7.69	1.30	1.34
1	N	1110	A	C4'-O4'	7.69	1.55	1.45
1	N	1455	G	C5-C4	7.69	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1124	G	C5-C6	-7.69	1.34	1.42
1	N	28	A	C6-N6	7.68	1.40	1.33
1	N	335	C	C5'-C4'	7.68	1.60	1.51
1	N	846	G	C2-N3	7.68	1.38	1.32
1	N	794	A	C5-C4	-7.68	1.33	1.38
1	N	892	A	C2'-C1'	-7.68	1.45	1.53
1	N	1135	U	C2-N3	7.68	1.43	1.37
1	N	467	U	C4'-C3'	7.68	1.61	1.53
1	N	640	A	N9-C8	7.68	1.43	1.37
1	N	1201	A	C5-C4	7.68	1.44	1.38
1	N	514	C	C4-C5	7.67	1.49	1.43
1	N	713	G	C5'-C4'	7.67	1.60	1.51
1	N	176	C	N1-C6	7.67	1.41	1.37
1	N	819	A	C6-N1	7.67	1.41	1.35
1	N	1397	C	C2-N3	7.67	1.41	1.35
1	N	364	A	C8-N7	-7.67	1.26	1.31
1	N	816	A	C6-N6	7.67	1.40	1.33
1	N	1246	A	P-O5'	-7.67	1.52	1.59
1	N	462	G	N9-C4	-7.66	1.31	1.38
1	N	1418	A	N7-C5	7.66	1.43	1.39
1	N	415	A	C5-C4	7.66	1.44	1.38
1	N	520	A	C5'-C4'	7.66	1.60	1.51
1	N	1039	G	N1-C2	7.66	1.43	1.37
1	N	376	G	N7-C5	-7.65	1.34	1.39
1	N	779	C	N3-C4	7.65	1.39	1.33
1	N	1221	G	N1-C2	7.65	1.43	1.37
1	N	231	U	C2-N3	7.65	1.43	1.37
1	N	1381	U	N1-C2	7.65	1.45	1.38
1	N	692	U	N3-C4	7.64	1.45	1.38
1	N	179	A	N9-C4	-7.64	1.33	1.37
1	N	94	G	C6-N1	7.64	1.44	1.39
1	N	273	U	C5'-C4'	7.64	1.60	1.51
1	N	210	C	C4-C5	7.64	1.49	1.43
1	N	1279	G	C3'-C2'	-7.64	1.44	1.52
1	N	1507	A	N7-C5	-7.64	1.34	1.39
1	N	483	C	C5-C6	7.63	1.40	1.34
1	N	992	U	C2-N3	7.63	1.43	1.37
1	N	1356	G	P-O5'	7.63	1.67	1.59
1	N	828	U	C5'-C4'	7.63	1.60	1.51
1	N	230	G	C3'-O3'	7.63	1.52	1.42
1	N	909	A	N7-C5	-7.63	1.34	1.39
1	N	1037	C	C2'-C1'	-7.63	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	432	A	N9-C4	-7.62	1.33	1.37
1	N	889	A	N1-C2	7.62	1.41	1.34
1	N	1093	A	C6-N1	7.62	1.40	1.35
1	N	1127	G	P-O5'	-7.62	1.52	1.59
1	N	872	A	C2'-C1'	-7.62	1.45	1.53
1	N	1034	G	N1-C2	7.61	1.43	1.37
1	N	595	A	C6-N1	7.61	1.40	1.35
1	N	1184	G	C2'-C1'	-7.61	1.45	1.53
1	N	408	A	C5-C6	-7.61	1.34	1.41
1	N	555	U	O3'-P	-7.61	1.52	1.61
1	N	659	U	C5-C6	7.61	1.41	1.34
1	N	53	A	O4'-C1'	7.61	1.51	1.41
1	N	865	A	N3-C4	-7.61	1.30	1.34
1	N	53	A	C5-C4	7.61	1.44	1.38
1	N	459	A	C2'-C1'	-7.61	1.45	1.53
1	N	574	A	N1-C2	-7.61	1.27	1.34
1	N	448	A	P-O5'	7.60	1.67	1.59
1	N	1476	A	C6-N1	7.60	1.40	1.35
1	N	182	A	O3'-P	-7.60	1.52	1.61
1	N	1242	G	C5-C6	-7.60	1.34	1.42
1	N	545	C	C2'-C1'	-7.60	1.45	1.53
1	N	679	C	N3-C4	7.59	1.39	1.33
1	N	680	C	N3-C4	7.59	1.39	1.33
1	N	347	G	C2'-C1'	-7.59	1.45	1.53
1	N	988	G	C2'-C1'	-7.59	1.45	1.53
1	N	1466	C	N3-C4	7.58	1.39	1.33
1	N	45	G	C5-C4	-7.58	1.33	1.38
1	N	226	G	C5-C6	-7.58	1.34	1.42
1	N	264	C	N1-C6	7.58	1.41	1.37
1	N	444	G	C5-C4	7.58	1.43	1.38
1	N	761	G	C6-N1	7.58	1.44	1.39
1	N	992	U	O3'-P	-7.58	1.52	1.61
1	N	1215	G	C2'-C1'	-7.58	1.45	1.53
1	N	1159	U	C2-N3	7.58	1.43	1.37
1	N	923	A	N7-C5	-7.58	1.34	1.39
1	N	1067	A	N7-C5	-7.58	1.34	1.39
1	N	848	C	C4-C5	7.57	1.49	1.43
1	N	963	G	C8-N7	-7.57	1.26	1.30
1	N	133	U	O3'-P	-7.57	1.52	1.61
1	N	777	A	N9-C4	-7.57	1.33	1.37
1	N	662	U	C4-O4	7.57	1.29	1.23
1	N	100	G	N7-C5	-7.57	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	666	G	C6-N1	7.57	1.44	1.39
1	N	697	U	C4-O4	7.56	1.29	1.23
1	N	1115	U	P-O5'	-7.56	1.52	1.59
1	N	1380	U	C2-N3	7.56	1.43	1.37
1	N	685	G	C5'-C4'	7.56	1.60	1.51
1	N	1420	U	C2-N3	7.56	1.43	1.37
1	N	1243	C	N1-C6	7.56	1.41	1.37
1	N	1003	G	N9-C8	7.56	1.43	1.37
1	N	1379	G	N3-C4	-7.55	1.30	1.35
1	N	547	A	C3'-C2'	7.55	1.61	1.52
1	N	758	C	C3'-O3'	7.55	1.52	1.42
1	N	1219	A	C6-N6	7.55	1.40	1.33
1	N	670	G	C3'-O3'	7.55	1.52	1.42
1	N	1519	A	N7-C5	-7.55	1.34	1.39
1	N	33	A	C5-C4	7.55	1.44	1.38
1	N	131	A	C6-N1	7.55	1.40	1.35
1	N	407	U	C2'-C1'	-7.55	1.45	1.53
1	N	1334	G	N9-C4	-7.55	1.31	1.38
1	N	919	A	N9-C4	7.55	1.42	1.37
1	N	1395	C	C4-N4	7.55	1.40	1.33
1	N	1113	C	O3'-P	-7.55	1.52	1.61
1	N	906	A	N3-C4	-7.54	1.30	1.34
1	N	447	G	C6-N1	7.54	1.44	1.39
1	N	1456	A	N9-C8	7.54	1.43	1.37
1	N	499	A	N9-C8	-7.54	1.31	1.37
1	N	852	G	C2-N3	7.54	1.38	1.32
1	N	796	C	C4'-O4'	-7.53	1.35	1.45
1	N	1138	G	N9-C8	7.53	1.43	1.37
1	N	782	A	N7-C5	-7.53	1.34	1.39
1	N	330	C	C5-C6	-7.53	1.28	1.34
1	N	733	G	C6-N1	7.53	1.44	1.39
1	N	1287	A	C6-N1	7.53	1.40	1.35
1	N	739	C	C1'-N1	7.53	1.60	1.48
1	N	1020	G	N1-C2	7.53	1.43	1.37
1	N	1353	G	C5-C4	7.52	1.43	1.38
1	N	1168	U	O3'-P	-7.52	1.52	1.61
1	N	1284	C	C2'-C1'	-7.52	1.45	1.53
1	N	1205	U	N3-C4	7.52	1.45	1.38
1	N	681	A	C6-N1	7.52	1.40	1.35
1	N	1173	U	C5-C6	7.52	1.41	1.34
1	N	33	A	C5-C6	-7.51	1.34	1.41
1	N	771	G	N9-C8	-7.51	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1445	U	C4'-C3'	-7.51	1.44	1.53
1	N	1274	A	C5-C4	7.51	1.44	1.38
1	N	551	U	C5'-C4'	7.51	1.60	1.51
1	N	947	G	C2-N3	7.51	1.38	1.32
1	N	464	U	P-O5'	-7.50	1.52	1.59
1	N	377	G	N7-C5	-7.50	1.34	1.39
1	N	410	G	C1'-N9	7.50	1.60	1.48
1	N	1005	A	C6-N6	7.50	1.40	1.33
1	N	1335	U	N1-C2	7.50	1.45	1.38
1	N	1363	A	C6-N1	7.50	1.40	1.35
1	N	1400	C	N3-C4	7.50	1.39	1.33
1	N	781	A	N9-C8	-7.50	1.31	1.37
1	N	44	A	C8-N7	-7.50	1.26	1.31
1	N	245	U	C5'-C4'	7.50	1.60	1.51
1	N	90	C	N3-C4	7.50	1.39	1.33
1	N	191	G	C5-C6	-7.50	1.34	1.42
1	N	884	U	C2'-C1'	-7.49	1.45	1.53
1	N	1306	A	N7-C5	-7.49	1.34	1.39
1	N	371	A	N7-C5	-7.49	1.34	1.39
1	N	548	G	N7-C5	-7.49	1.34	1.39
1	N	920	U	C2'-C1'	-7.49	1.45	1.53
1	N	1123	U	O3'-P	-7.49	1.52	1.61
1	N	1401	G	C4'-O4'	7.49	1.55	1.45
1	N	1452	C	N3-C4	7.49	1.39	1.33
1	N	1515	G	C2-N3	7.49	1.38	1.32
1	N	227	G	C2-N2	7.48	1.42	1.34
1	N	300	A	C6-N6	7.48	1.40	1.33
1	N	774	G	C2'-C1'	-7.48	1.45	1.53
1	N	1531	A	C4'-C3'	7.48	1.61	1.53
1	N	362	G	C6-N1	7.48	1.44	1.39
1	N	3	A	C2'-C1'	-7.48	1.45	1.53
1	N	174	A	C8-N7	-7.47	1.26	1.31
1	N	1313	U	P-O5'	-7.47	1.52	1.59
1	N	861	G	C8-N7	-7.47	1.26	1.30
1	N	1085	U	C3'-C2'	7.47	1.61	1.52
1	N	1292	G	N9-C4	-7.47	1.31	1.38
1	N	575	G	C5-C6	7.47	1.49	1.42
1	N	1457	G	C5-C6	7.47	1.49	1.42
1	N	1134	G	C5'-C4'	7.47	1.60	1.51
1	N	878	A	N1-C2	7.47	1.41	1.34
1	N	1431	A	C5-C6	7.47	1.47	1.41
1	N	380	G	C2'-C1'	-7.46	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1016	A	N9-C8	-7.46	1.31	1.37
1	N	1230	C	P-O5'	-7.46	1.52	1.59
1	N	753	A	C4'-C3'	7.46	1.61	1.53
1	N	1084	G	C4'-C3'	7.46	1.61	1.53
1	N	1508	A	N7-C5	-7.46	1.34	1.39
1	N	507	C	N1-C6	-7.46	1.32	1.37
1	N	837	U	C1'-N1	7.46	1.59	1.48
1	N	1227	A	C6-N1	7.45	1.40	1.35
1	N	1280	A	C6-N1	7.45	1.40	1.35
1	N	954	G	C5-C4	7.45	1.43	1.38
1	N	1172	C	N1-C6	7.45	1.41	1.37
1	N	112	G	C1'-N9	7.44	1.59	1.48
1	N	1433	A	N7-C5	-7.44	1.34	1.39
1	N	71	A	P-O5'	-7.44	1.52	1.59
1	N	1363	A	N7-C5	-7.44	1.34	1.39
1	N	466	A	N3-C4	7.44	1.39	1.34
1	N	1504	G	C8-N7	-7.44	1.26	1.30
1	N	130	A	N3-C4	-7.43	1.30	1.34
1	N	1086	U	N1-C6	-7.43	1.31	1.38
1	N	158	G	C2-N3	7.43	1.38	1.32
1	N	1431	A	N9-C8	7.43	1.43	1.37
1	N	110	C	N3-C4	7.43	1.39	1.33
1	N	1058	G	C2-N3	7.43	1.38	1.32
1	N	1239	A	N3-C4	7.43	1.39	1.34
1	N	515	G	C3'-C2'	-7.43	1.44	1.52
1	N	918	A	P-O5'	-7.43	1.52	1.59
1	N	1000	A	N3-C4	7.43	1.39	1.34
1	N	665	A	C8-N7	-7.42	1.26	1.31
1	N	256	U	P-O5'	-7.42	1.52	1.59
1	N	219	U	N1-C2	-7.42	1.31	1.38
1	N	587	G	N7-C5	-7.42	1.34	1.39
1	N	184	G	C2-N3	7.42	1.38	1.32
1	N	184	G	P-O5'	-7.42	1.52	1.59
1	N	301	G	C5-C4	7.42	1.43	1.38
1	N	577	G	C5-C6	-7.42	1.34	1.42
1	N	973	G	N1-C2	7.42	1.43	1.37
1	N	1127	G	C2-N3	7.42	1.38	1.32
1	N	181	A	C6-N1	-7.42	1.30	1.35
1	N	449	G	C3'-C2'	7.42	1.61	1.52
1	N	596	A	C2-N3	7.42	1.40	1.33
1	N	630	A	C5-C6	7.42	1.47	1.41
1	N	861	G	O3'-P	-7.42	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	745	G	C8-N7	-7.41	1.26	1.30
1	N	769	G	N7-C5	-7.41	1.34	1.39
1	N	26	A	N3-C4	-7.41	1.30	1.34
1	N	574	A	C6-N1	7.41	1.40	1.35
1	N	1333	A	C6-N6	7.41	1.39	1.33
1	N	97	G	C2'-C1'	-7.41	1.45	1.53
1	N	840	C	N3-C4	7.41	1.39	1.33
1	N	1113	C	C4-C5	7.41	1.48	1.43
1	N	1262	C	P-O5'	-7.41	1.52	1.59
1	N	200	G	C2'-C1'	-7.41	1.45	1.53
1	N	814	A	N7-C5	7.40	1.43	1.39
1	N	75	G	C6-N1	7.40	1.44	1.39
1	N	1408	A	C3'-C2'	-7.40	1.44	1.52
1	N	1090	U	P-O5'	-7.40	1.52	1.59
1	N	1273	C	C4-N4	7.39	1.40	1.33
1	N	360	G	C5'-C4'	7.39	1.60	1.51
1	N	352	C	C5-C6	7.39	1.40	1.34
1	N	674	G	N9-C4	-7.39	1.32	1.38
1	N	10	A	N3-C4	-7.39	1.30	1.34
1	N	134	G	C4'-O4'	7.39	1.55	1.45
1	N	308	C	N3-C4	7.39	1.39	1.33
1	N	798	U	O4'-C1'	7.39	1.51	1.41
1	N	553	A	N1-C2	7.39	1.41	1.34
1	N	654	G	N9-C4	-7.39	1.32	1.38
1	N	743	A	P-O5'	-7.38	1.52	1.59
1	N	1253	G	P-O5'	-7.38	1.52	1.59
1	N	1286	U	C4-O4	-7.38	1.17	1.23
1	N	260	G	N9-C8	-7.38	1.32	1.37
1	N	1225	A	C5-C4	7.38	1.44	1.38
1	N	58	C	N1-C6	7.38	1.41	1.37
1	N	1339	A	C5-C4	7.38	1.44	1.38
1	N	1362	A	O3'-P	-7.38	1.52	1.61
1	N	78	A	C5-C6	-7.38	1.34	1.41
1	N	852	G	C5-C4	-7.37	1.33	1.38
1	N	623	C	N3-C4	7.37	1.39	1.33
1	N	1087	G	C6-N1	7.37	1.44	1.39
1	N	65	A	C6-N1	7.37	1.40	1.35
1	N	254	G	C2'-C1'	-7.36	1.45	1.53
1	N	378	G	C2'-C1'	-7.36	1.45	1.53
1	N	402	G	N3-C4	7.36	1.40	1.35
1	N	474	G	C8-N7	7.36	1.35	1.30
1	N	559	A	P-O5'	-7.36	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1221	G	C2'-C1'	-7.36	1.45	1.53
1	N	1298	U	N3-C4	7.36	1.45	1.38
1	N	1259	C	C2-N3	7.36	1.41	1.35
1	N	1318	A	C5'-C4'	7.35	1.60	1.51
1	N	568	G	C5-C4	7.35	1.43	1.38
1	N	663	A	P-O5'	-7.35	1.52	1.59
1	N	794	A	C2'-C1'	-7.35	1.45	1.53
1	N	100	G	C2-N3	7.35	1.38	1.32
1	N	1458	G	P-O5'	-7.35	1.52	1.59
1	N	993	G	C2-N3	7.35	1.38	1.32
1	N	946	A	P-O5'	-7.35	1.52	1.59
1	N	923	A	C4'-O4'	7.34	1.55	1.45
1	N	181	A	C4'-C3'	7.34	1.61	1.53
1	N	1474	U	C2'-C1'	-7.34	1.45	1.53
1	N	191	G	C2-N2	7.34	1.41	1.34
1	N	431	A	C6-N6	7.34	1.39	1.33
1	N	784	A	N9-C8	7.34	1.43	1.37
1	N	961	U	C4'-C3'	-7.34	1.45	1.53
1	N	1243	C	C4-C5	7.34	1.48	1.43
1	N	169	C	C2-N3	7.34	1.41	1.35
1	N	1388	C	N3-C4	7.34	1.39	1.33
1	N	388	G	N7-C5	-7.33	1.34	1.39
1	N	963	G	N7-C5	-7.33	1.34	1.39
1	N	96	U	N1-C6	7.33	1.44	1.38
1	N	587	G	C2-N2	7.33	1.41	1.34
1	N	1193	G	C6-N1	7.33	1.44	1.39
1	N	398	U	C5'-C4'	7.33	1.60	1.51
1	N	1375	A	N3-C4	7.33	1.39	1.34
1	N	43	C	N1-C6	7.32	1.41	1.37
1	N	130	A	P-O5'	-7.32	1.52	1.59
1	N	211	G	N9-C8	7.32	1.43	1.37
1	N	490	C	N3-C4	7.32	1.39	1.33
1	N	1337	G	C3'-C2'	7.32	1.61	1.52
1	N	123	U	C4'-C3'	-7.32	1.45	1.53
1	N	181	A	O4'-C1'	-7.32	1.32	1.41
1	N	897	C	O3'-P	-7.32	1.52	1.61
1	N	1365	G	C4'-C3'	7.32	1.61	1.53
1	N	551	U	C2-N3	7.32	1.42	1.37
1	N	771	G	C5'-C4'	7.32	1.60	1.51
1	N	1041	G	C5-C4	7.32	1.43	1.38
1	N	631	C	C4-N4	7.31	1.40	1.33
1	N	765	G	N3-C4	-7.31	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	714	G	C6-N1	7.31	1.44	1.39
1	N	728	A	N3-C4	-7.31	1.30	1.34
1	N	1024	G	N3-C4	-7.31	1.30	1.35
1	N	446	G	C6-N1	7.31	1.44	1.39
1	N	901	A	C5-C4	7.30	1.43	1.38
1	N	91	U	C5'-C4'	7.30	1.60	1.51
1	N	1226	C	N1-C6	7.30	1.41	1.37
1	N	1367	C	C4-N4	7.30	1.40	1.33
1	N	701	U	C2-N3	7.30	1.42	1.37
1	N	1031	C	C3'-C2'	7.30	1.60	1.52
1	N	396	C	C5-C6	7.30	1.40	1.34
1	N	32	A	C2'-C1'	-7.29	1.45	1.53
1	N	624	C	N3-C4	7.29	1.39	1.33
1	N	1254	A	C3'-O3'	-7.29	1.31	1.42
1	N	1430	A	N3-C4	-7.29	1.30	1.34
1	N	330	C	N1-C6	7.29	1.41	1.37
1	N	494	G	C6-N1	7.28	1.44	1.39
1	N	470	C	O3'-P	-7.28	1.52	1.61
1	N	1155	A	C2'-C1'	-7.28	1.45	1.53
1	N	214	C	C5'-C4'	7.28	1.60	1.51
1	N	1358	U	C4'-C3'	7.28	1.61	1.53
1	N	1511	G	O3'-P	-7.28	1.52	1.61
1	N	1301	U	N1-C6	7.28	1.44	1.38
1	N	460	A	C3'-C2'	-7.27	1.44	1.52
1	N	1377	A	C2-N3	7.27	1.40	1.33
1	N	814	A	O3'-P	-7.27	1.52	1.61
1	N	386	C	N1-C6	7.27	1.41	1.37
1	N	26	A	C6-N1	-7.27	1.30	1.35
1	N	159	G	C2-N2	7.27	1.41	1.34
1	N	512	U	C2'-C1'	-7.27	1.45	1.53
1	N	1519	A	C2-N3	-7.27	1.27	1.33
1	N	85	U	C4'-C3'	7.27	1.61	1.53
1	N	63	C	C4-N4	7.26	1.40	1.33
1	N	583	A	N7-C5	7.26	1.43	1.39
1	N	193	C	C1'-N1	7.26	1.59	1.48
1	N	597	G	C8-N7	-7.26	1.26	1.30
1	N	919	A	P-O5'	-7.26	1.52	1.59
1	N	1043	G	C2'-C1'	7.26	1.61	1.53
1	N	1444	U	C5'-C4'	7.26	1.60	1.51
1	N	1143	G	C6-N1	7.26	1.44	1.39
1	N	366	A	N3-C4	-7.25	1.30	1.34
1	N	252	U	P-O5'	7.25	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	8	A	P-O5'	-7.25	1.52	1.59
1	N	222	C	N1-C6	7.25	1.41	1.37
1	N	704	A	N9-C4	7.25	1.42	1.37
1	N	812	G	O3'-P	-7.25	1.52	1.61
1	N	1242	G	C2'-C1'	-7.25	1.45	1.53
1	N	1039	G	N9-C4	7.25	1.43	1.38
1	N	1188	A	N9-C4	-7.25	1.33	1.37
1	N	86	G	C6-N1	7.25	1.44	1.39
1	N	702	A	C5-C6	7.25	1.47	1.41
1	N	713	G	C8-N7	-7.25	1.26	1.30
1	N	440	C	P-O5'	-7.24	1.52	1.59
1	N	590	U	C4'-C3'	7.24	1.61	1.53
1	N	1273	C	N3-C4	7.24	1.39	1.33
1	N	734	G	C2-N3	7.24	1.38	1.32
1	N	770	C	C4-N4	7.24	1.40	1.33
1	N	393	A	C4'-C3'	7.24	1.61	1.53
1	N	1454	G	N1-C2	7.24	1.43	1.37
1	N	427	U	P-O5'	-7.23	1.52	1.59
1	N	1117	A	C4'-C3'	7.23	1.61	1.53
1	N	1525	G	C2-N2	7.23	1.41	1.34
1	N	1239	A	C5'-C4'	7.23	1.60	1.51
1	N	278	G	C5-C4	-7.23	1.33	1.38
1	N	405	U	C4'-C3'	7.23	1.61	1.53
1	N	482	A	C2'-C1'	-7.23	1.45	1.53
1	N	1279	G	N1-C2	7.23	1.43	1.37
1	N	1407	C	O3'-P	-7.23	1.52	1.61
1	N	1458	G	N9-C4	-7.23	1.32	1.38
1	N	1481	U	N1-C2	-7.23	1.32	1.38
1	N	761	G	C5'-C4'	7.23	1.60	1.51
1	N	1173	U	C1'-N1	7.23	1.59	1.48
1	N	436	C	C2'-C1'	-7.22	1.45	1.53
1	N	689	C	N3-C4	7.22	1.39	1.33
1	N	231	U	N1-C2	7.22	1.45	1.38
1	N	1446	A	C5-C4	7.22	1.43	1.38
1	N	464	U	O3'-P	-7.22	1.52	1.61
1	N	494	G	C5-C6	7.22	1.49	1.42
1	N	1132	C	C5'-C4'	7.22	1.60	1.51
1	N	1456	A	C6-N6	7.22	1.39	1.33
1	N	1033	G	N9-C8	7.22	1.43	1.37
1	N	1140	C	C4'-C3'	7.22	1.61	1.53
1	N	1263	C	C4-C5	7.22	1.48	1.43
1	N	1310	G	N1-C2	7.22	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1357	A	C6-N1	7.22	1.40	1.35
1	N	701	U	C4'-C3'	7.21	1.61	1.53
1	N	1187	G	N1-C2	7.21	1.43	1.37
1	N	558	G	C2-N2	7.21	1.41	1.34
1	N	1234	C	N3-C4	7.21	1.39	1.33
1	N	121	U	P-O5'	7.21	1.67	1.59
1	N	767	A	C2'-C1'	-7.21	1.45	1.53
1	N	169	C	N1-C6	-7.21	1.32	1.37
1	N	1271	A	N3-C4	-7.21	1.30	1.34
1	N	1433	A	N9-C4	-7.21	1.33	1.37
1	N	1078	U	N3-C4	7.20	1.45	1.38
1	N	1371	G	C6-N1	7.20	1.44	1.39
1	N	1463	U	C2-N3	7.20	1.42	1.37
1	N	1452	C	N1-C6	7.20	1.41	1.37
1	N	1456	A	N9-C4	7.20	1.42	1.37
1	N	374	A	N1-C2	-7.20	1.27	1.34
1	N	747	A	C3'-C2'	7.20	1.60	1.52
1	N	590	U	C4-C5	7.20	1.50	1.43
1	N	1144	G	C8-N7	-7.20	1.26	1.30
1	N	950	U	C4-O4	7.20	1.29	1.23
1	N	634	C	O4'-C1'	7.19	1.51	1.41
1	N	862	C	N3-C4	7.19	1.39	1.33
1	N	1533	C	C4-C5	7.19	1.48	1.43
1	N	560	A	C6-N1	7.19	1.40	1.35
1	N	143	A	N3-C4	-7.19	1.30	1.34
1	N	1212	U	C2-N3	7.19	1.42	1.37
1	N	513	C	P-O5'	-7.19	1.52	1.59
1	N	968	A	C6-N1	7.18	1.40	1.35
1	N	1018	G	C5-C4	7.18	1.43	1.38
1	N	1368	A	N7-C5	-7.18	1.34	1.39
1	N	1109	C	P-O5'	-7.18	1.52	1.59
1	N	1177	G	C2-N3	7.18	1.38	1.32
1	N	710	G	C2-N3	7.18	1.38	1.32
1	N	903	G	N9-C8	7.18	1.42	1.37
1	N	148	G	C4'-C3'	7.17	1.61	1.53
1	N	244	U	C2-N3	7.17	1.42	1.37
1	N	733	G	N9-C8	-7.17	1.32	1.37
1	N	891	U	P-O5'	-7.17	1.52	1.59
1	N	220	G	P-O5'	-7.17	1.52	1.59
1	N	6	G	P-O5'	-7.17	1.52	1.59
1	N	409	U	O3'-P	-7.17	1.52	1.61
1	N	498	A	C5-C4	7.17	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	991	U	N3-C4	7.17	1.44	1.38
1	N	94	G	N9-C8	7.17	1.42	1.37
1	N	156	C	C4-C5	7.17	1.48	1.43
1	N	1202	U	P-O5'	-7.17	1.52	1.59
1	N	1441	A	C6-N6	7.16	1.39	1.33
1	N	1071	C	C2-N3	7.16	1.41	1.35
1	N	1085	U	C3'-O3'	7.16	1.52	1.42
1	N	271	C	N1-C6	-7.16	1.32	1.37
1	N	1171	A	C2-N3	-7.16	1.27	1.33
1	N	1505	G	C6-N1	7.16	1.44	1.39
1	N	781	A	C8-N7	7.15	1.36	1.31
1	N	1035	A	N3-C4	7.15	1.39	1.34
1	N	1430	A	P-O5'	-7.15	1.52	1.59
1	N	369	G	C8-N7	-7.15	1.26	1.30
1	N	242	G	P-O5'	-7.15	1.52	1.59
1	N	894	G	P-O5'	-7.15	1.52	1.59
1	N	1180	A	N9-C4	7.15	1.42	1.37
1	N	687	A	N7-C5	-7.15	1.34	1.39
1	N	971	G	C5'-C4'	7.15	1.59	1.51
1	N	1295	U	C2'-C1'	-7.15	1.45	1.53
1	N	770	C	C2'-C1'	-7.14	1.45	1.53
1	N	822	U	C2-N3	7.14	1.42	1.37
1	N	92	U	N3-C4	7.14	1.44	1.38
1	N	372	C	C3'-C2'	7.14	1.60	1.52
1	N	682	G	C2'-C1'	-7.14	1.45	1.53
1	N	1087	G	C2-N3	7.14	1.38	1.32
1	N	859	G	N3-C4	-7.14	1.30	1.35
1	N	1273	C	C4-C5	7.14	1.48	1.43
1	N	1125	U	P-O5'	-7.14	1.52	1.59
1	N	811	C	C4-N4	7.14	1.40	1.33
1	N	288	A	N7-C5	-7.13	1.34	1.39
1	N	1468	A	N3-C4	-7.13	1.30	1.34
1	N	473	U	N1-C6	7.13	1.44	1.38
1	N	831	A	C6-N6	7.13	1.39	1.33
1	N	851	G	C6-N1	7.13	1.44	1.39
1	N	1236	A	O3'-P	-7.13	1.52	1.61
1	N	974	A	C6-N6	7.13	1.39	1.33
1	N	1151	A	C3'-C2'	7.13	1.60	1.52
1	N	1136	C	N1-C2	7.13	1.47	1.40
1	N	1024	G	N9-C8	7.12	1.42	1.37
1	N	971	G	N1-C2	7.12	1.43	1.37
1	N	61	G	N3-C4	-7.12	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	864	A	P-O5'	-7.12	1.52	1.59
1	N	741	G	C2-N3	7.12	1.38	1.32
1	N	743	A	C6-N6	7.12	1.39	1.33
1	N	1033	G	C6-N1	7.12	1.44	1.39
1	N	1165	U	N3-C4	7.12	1.44	1.38
1	N	429	U	C3'-C2'	-7.12	1.45	1.52
1	N	174	A	C6-N1	7.12	1.40	1.35
1	N	422	C	O3'-P	-7.12	1.52	1.61
1	N	832	G	N3-C4	7.12	1.40	1.35
1	N	171	A	C5-C4	7.11	1.43	1.38
1	N	142	G	N9-C8	-7.11	1.32	1.37
1	N	195	A	O3'-P	-7.11	1.52	1.61
1	N	649	A	C5-C4	7.11	1.43	1.38
1	N	668	G	N9-C4	-7.11	1.32	1.38
1	N	851	G	C2-N3	7.11	1.38	1.32
1	N	1187	G	C8-N7	-7.11	1.26	1.30
1	N	15	G	C5'-C4'	7.10	1.59	1.51
1	N	888	G	C2-N3	7.10	1.38	1.32
1	N	1102	A	C4'-C3'	7.10	1.60	1.53
1	N	41	G	N7-C5	-7.10	1.34	1.39
1	N	361	G	N7-C5	-7.10	1.34	1.39
1	N	1365	G	N1-C2	7.10	1.43	1.37
1	N	422	C	C2-N3	7.10	1.41	1.35
1	N	1387	G	C5-C6	-7.10	1.35	1.42
1	N	189	A	N3-C4	7.09	1.39	1.34
1	N	738	C	P-O5'	-7.09	1.52	1.59
1	N	570	G	N7-C5	-7.09	1.34	1.39
1	N	271	C	C4'-C3'	-7.09	1.45	1.53
1	N	1064	G	C4'-C3'	7.09	1.60	1.53
1	N	1222	G	C2-N3	7.09	1.38	1.32
1	N	140	U	O3'-P	-7.09	1.52	1.61
1	N	1372	U	C3'-C2'	-7.09	1.45	1.52
1	N	1493	A	N9-C4	7.09	1.42	1.37
1	N	274	A	N3-C4	7.08	1.39	1.34
1	N	698	G	C2-N3	7.08	1.38	1.32
1	N	1220	G	C8-N7	-7.08	1.26	1.30
1	N	585	G	N9-C8	-7.08	1.32	1.37
1	N	1182	G	C6-N1	7.08	1.44	1.39
1	N	858	G	C3'-C2'	-7.08	1.45	1.52
1	N	900	A	C8-N7	-7.08	1.26	1.31
1	N	905	U	N1-C2	-7.08	1.32	1.38
1	N	1094	G	C3'-C2'	7.08	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1319	A	C5-C4	7.08	1.43	1.38
1	N	1098	C	N3-C4	7.08	1.39	1.33
1	N	547	A	O4'-C1'	7.08	1.50	1.41
1	N	926	G	O3'-P	-7.07	1.52	1.61
1	N	171	A	N9-C4	-7.07	1.33	1.37
1	N	1089	G	N1-C2	7.07	1.43	1.37
1	N	850	U	P-O5'	-7.07	1.52	1.59
1	N	517	G	C2-N3	7.07	1.38	1.32
1	N	841	C	C4-N4	7.06	1.40	1.33
1	N	1320	C	C4-C5	7.06	1.48	1.43
1	N	651	C	N1-C2	-7.06	1.33	1.40
1	N	1075	U	P-O5'	-7.06	1.52	1.59
1	N	1323	G	N1-C2	7.06	1.43	1.37
1	N	337	G	C6-N1	7.06	1.44	1.39
1	N	417	G	C5-C4	7.06	1.43	1.38
1	N	1492	A	C5'-C4'	7.06	1.59	1.51
1	N	65	A	C5-C4	-7.06	1.33	1.38
1	N	441	A	N3-C4	-7.06	1.30	1.34
1	N	544	G	N1-C2	7.06	1.43	1.37
1	N	770	C	C1'-N1	7.05	1.59	1.48
1	N	1006	G	C5'-C4'	7.05	1.59	1.51
1	N	1334	G	O3'-P	-7.05	1.52	1.61
1	N	293	G	N7-C5	-7.05	1.35	1.39
1	N	375	U	P-O5'	-7.05	1.52	1.59
1	N	820	U	C2-N3	7.05	1.42	1.37
1	N	873	A	N3-C4	-7.05	1.30	1.34
1	N	1484	C	C3'-C2'	7.05	1.60	1.52
1	N	1526	G	C2-N3	7.05	1.38	1.32
1	N	480	U	N3-C4	7.05	1.44	1.38
1	N	540	G	O3'-P	-7.05	1.52	1.61
1	N	766	A	C3'-O3'	7.05	1.52	1.42
1	N	904	U	C2-O2	7.05	1.28	1.22
1	N	1379	G	C2'-C1'	-7.05	1.45	1.53
1	N	499	A	C6-N1	7.05	1.40	1.35
1	N	1227	A	N9-C4	-7.04	1.33	1.37
1	N	1173	U	C4'-C3'	7.04	1.60	1.53
1	N	1323	G	C2'-C1'	-7.04	1.45	1.53
1	N	263	A	N9-C4	-7.04	1.33	1.37
1	N	799	G	N9-C4	-7.04	1.32	1.38
1	N	1263	C	C5-C6	7.04	1.40	1.34
1	N	655	A	C6-N6	7.04	1.39	1.33
1	N	1206	G	C5'-C4'	7.04	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	529	G	O3'-P	-7.04	1.52	1.61
1	N	1357	A	N9-C8	-7.04	1.32	1.37
1	N	253	A	C6-N1	7.03	1.40	1.35
1	N	446	G	C2-N3	7.03	1.38	1.32
1	N	668	G	P-O5'	-7.03	1.52	1.59
1	N	1227	A	C2'-C1'	-7.03	1.45	1.53
1	N	1314	C	C4-C5	7.03	1.48	1.43
1	N	181	A	C5-C4	-7.02	1.33	1.38
1	N	393	A	C6-N6	7.02	1.39	1.33
1	N	891	U	C2-N3	7.02	1.42	1.37
1	N	1501	C	O3'-P	-7.02	1.52	1.61
1	N	571	U	N3-C4	7.02	1.44	1.38
1	N	1193	G	N7-C5	7.02	1.43	1.39
1	N	1423	G	N1-C2	7.02	1.43	1.37
1	N	1531	A	C5-C4	7.02	1.43	1.38
1	N	630	A	C5-C4	7.02	1.43	1.38
1	N	1510	C	N3-C4	7.01	1.38	1.33
1	N	695	A	N9-C4	7.01	1.42	1.37
1	N	736	C	C2'-C1'	-7.01	1.45	1.53
1	N	1219	A	P-O5'	-7.01	1.52	1.59
1	N	562	U	N1-C6	7.01	1.44	1.38
1	N	382	A	N7-C5	-7.01	1.35	1.39
1	N	578	C	C4-N4	7.01	1.40	1.33
1	N	947	G	N7-C5	7.01	1.43	1.39
1	N	1188	A	O3'-P	-7.00	1.52	1.61
1	N	1113	C	C1'-N1	7.00	1.59	1.48
1	N	1372	U	N3-C4	7.00	1.44	1.38
1	N	1097	C	C5'-C4'	7.00	1.59	1.51
1	N	1375	A	O3'-P	-7.00	1.52	1.61
1	N	889	A	C5-C4	7.00	1.43	1.38
1	N	1433	A	C4'-C3'	-7.00	1.45	1.53
1	N	533	A	N7-C5	-7.00	1.35	1.39
1	N	844	G	C2-N3	7.00	1.38	1.32
1	N	259	G	N9-C4	6.99	1.43	1.38
1	N	609	A	C6-N1	6.99	1.40	1.35
1	N	1186	G	N9-C4	-6.99	1.32	1.38
1	N	51	A	C6-N6	6.99	1.39	1.33
1	N	1053	G	C3'-C2'	6.99	1.60	1.52
1	N	765	G	N1-C2	6.99	1.43	1.37
1	N	1038	C	C1'-N1	6.99	1.59	1.48
1	N	564	C	C4-C5	6.99	1.48	1.43
1	N	968	A	N9-C4	6.99	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1194	U	N1-C6	6.99	1.44	1.38
1	N	462	G	C5-C6	-6.99	1.35	1.42
1	N	588	G	N7-C5	-6.99	1.35	1.39
1	N	1258	G	C2'-C1'	-6.99	1.45	1.53
1	N	115	G	C4'-C3'	6.98	1.60	1.53
1	N	516	U	C5'-C4'	6.98	1.59	1.51
1	N	301	G	N1-C2	6.98	1.43	1.37
1	N	652	U	C4'-C3'	6.98	1.60	1.53
1	N	1058	G	C5-C4	-6.98	1.33	1.38
1	N	632	U	P-O5'	6.98	1.66	1.59
1	N	735	C	C2-N3	6.98	1.41	1.35
1	N	905	U	C5'-C4'	6.98	1.59	1.51
1	N	126	G	C5'-C4'	6.98	1.59	1.51
1	N	788	U	C2-N3	6.98	1.42	1.37
1	N	840	C	C2'-C1'	-6.98	1.45	1.53
1	N	620	C	N3-C4	6.97	1.38	1.33
1	N	646	G	C4'-C3'	-6.97	1.45	1.53
1	N	483	C	C4-C5	-6.97	1.37	1.43
1	N	748	G	C8-N7	-6.97	1.26	1.30
1	N	988	G	P-O5'	6.97	1.66	1.59
1	N	1321	U	N1-C2	6.97	1.44	1.38
1	N	369	G	N9-C8	6.97	1.42	1.37
1	N	1507	A	N3-C4	-6.97	1.30	1.34
1	N	266	G	C4'-O4'	-6.97	1.36	1.45
1	N	80	A	N7-C5	-6.97	1.35	1.39
1	N	216	U	O3'-P	-6.97	1.52	1.61
1	N	321	A	C6-N1	6.97	1.40	1.35
1	N	417	G	C5-C6	-6.97	1.35	1.42
1	N	442	G	N9-C4	-6.97	1.32	1.38
1	N	919	A	C1'-N9	6.97	1.59	1.48
1	N	1122	U	C5'-C4'	6.96	1.59	1.51
1	N	4	U	C2-N3	6.96	1.42	1.37
1	N	509	A	C2-N3	6.96	1.39	1.33
1	N	667	G	N7-C5	-6.96	1.35	1.39
1	N	242	G	N7-C5	6.96	1.43	1.39
1	N	925	G	N7-C5	6.96	1.43	1.39
1	N	145	G	C6-N1	6.96	1.44	1.39
1	N	1033	G	N1-C2	6.96	1.43	1.37
1	N	1199	U	C4'-C3'	-6.96	1.45	1.53
1	N	423	G	C5-C4	6.96	1.43	1.38
1	N	1254	A	C2-N3	6.96	1.39	1.33
1	N	1426	G	C2'-C1'	-6.95	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	207	C	C4-N4	6.95	1.40	1.33
1	N	1116	U	C5'-C4'	6.95	1.59	1.51
1	N	32	A	C3'-C2'	6.95	1.60	1.52
1	N	629	A	C3'-C2'	6.95	1.60	1.52
1	N	1221	G	C2-N2	6.95	1.41	1.34
1	N	1364	U	N1-C6	-6.95	1.31	1.38
1	N	1531	A	C6-N1	6.95	1.40	1.35
1	N	159	G	C4'-C3'	6.94	1.60	1.53
1	N	421	U	C5'-C4'	6.94	1.59	1.51
1	N	795	C	C1'-N1	6.94	1.59	1.48
1	N	1478	U	N3-C4	6.94	1.44	1.38
1	N	1063	C	C4'-O4'	6.94	1.54	1.45
1	N	366	A	N1-C2	-6.93	1.28	1.34
1	N	1002	G	C5'-C4'	6.93	1.59	1.51
1	N	1060	U	C4'-O4'	6.93	1.54	1.45
1	N	150	U	N1-C6	6.93	1.44	1.38
1	N	1461	G	N9-C4	-6.93	1.32	1.38
1	N	682	G	O4'-C1'	6.93	1.50	1.41
1	N	1148	U	C2-N3	6.93	1.42	1.37
1	N	141	G	C5-C6	-6.93	1.35	1.42
1	N	746	A	C2'-C1'	-6.93	1.45	1.53
1	N	33	A	P-O5'	-6.93	1.52	1.59
1	N	253	A	C3'-C2'	-6.93	1.45	1.52
1	N	1189	U	C2-N3	6.93	1.42	1.37
1	N	27	G	C5-C4	6.92	1.43	1.38
1	N	440	C	N3-C4	6.92	1.38	1.33
1	N	723	U	C2-N3	6.92	1.42	1.37
1	N	1423	G	N9-C4	-6.92	1.32	1.38
1	N	721	G	N7-C5	-6.92	1.35	1.39
1	N	529	G	N3-C4	-6.92	1.30	1.35
1	N	237	G	N9-C8	-6.92	1.33	1.37
1	N	392	C	N3-C4	6.92	1.38	1.33
1	N	411	A	C2-N3	6.92	1.39	1.33
1	N	718	A	P-O5'	-6.92	1.52	1.59
1	N	1517	G	C2-N2	6.92	1.41	1.34
1	N	145	G	N1-C2	6.92	1.43	1.37
1	N	1418	A	N3-C4	-6.92	1.30	1.34
1	N	312	C	C2-N3	-6.92	1.30	1.35
1	N	840	C	C1'-N1	6.92	1.59	1.48
1	N	529	G	C5-C4	6.91	1.43	1.38
1	N	774	G	C5-C4	-6.91	1.33	1.38
1	N	910	C	C1'-N1	6.91	1.59	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1150	A	C4'-O4'	-6.91	1.36	1.45
1	N	189	A	P-O5'	-6.91	1.52	1.59
1	N	360	G	C3'-O3'	6.91	1.51	1.42
1	N	821	G	C6-N1	6.91	1.44	1.39
1	N	1123	U	C2'-C1'	-6.91	1.45	1.53
1	N	1440	U	O4'-C1'	6.91	1.50	1.41
1	N	1526	G	C8-N7	6.91	1.35	1.30
1	N	770	C	N3-C4	6.90	1.38	1.33
1	N	22	G	N1-C2	6.90	1.43	1.37
1	N	995	C	C4-N4	6.90	1.40	1.33
1	N	470	C	C4'-C3'	6.90	1.60	1.53
1	N	496	A	C5'-C4'	6.90	1.59	1.51
1	N	733	G	N3-C4	-6.90	1.30	1.35
1	N	880	C	P-O5'	-6.90	1.52	1.59
1	N	337	G	N7-C5	-6.89	1.35	1.39
1	N	1036	A	C2'-C1'	-6.89	1.45	1.53
1	N	1206	G	C2-N2	6.89	1.41	1.34
1	N	521	G	C2-N2	6.89	1.41	1.34
1	N	1178	G	N7-C5	-6.89	1.35	1.39
1	N	646	G	N3-C4	6.89	1.40	1.35
1	N	1374	A	C5-C4	6.89	1.43	1.38
1	N	1171	A	N7-C5	-6.89	1.35	1.39
1	N	76	G	C6-O6	-6.88	1.18	1.24
1	N	729	A	C2'-C1'	-6.88	1.45	1.53
1	N	1407	C	N1-C6	6.88	1.41	1.37
1	N	147	G	C5-C4	6.88	1.43	1.38
1	N	484	G	C6-N1	6.88	1.44	1.39
1	N	365	U	C3'-O3'	6.88	1.51	1.42
1	N	571	U	C2-N3	6.88	1.42	1.37
1	N	1484	C	N1-C6	6.88	1.41	1.37
1	N	313	A	C5-C6	-6.88	1.34	1.41
1	N	1534	A	C8-N7	-6.88	1.26	1.31
1	N	1278	G	N1-C2	6.88	1.43	1.37
1	N	1305	G	C5'-C4'	6.88	1.59	1.51
1	N	1172	C	C2-N3	6.87	1.41	1.35
1	N	1225	A	C6-N1	6.87	1.40	1.35
1	N	1315	U	C3'-C2'	6.87	1.60	1.52
1	N	220	G	C3'-O3'	6.87	1.51	1.42
1	N	232	G	C3'-O3'	-6.87	1.32	1.42
1	N	502	A	N9-C4	-6.87	1.33	1.37
1	N	1099	G	N9-C4	6.87	1.43	1.38
1	N	1211	U	C5'-C4'	6.87	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1416	G	N7-C5	-6.87	1.35	1.39
1	N	72	A	N9-C4	6.86	1.42	1.37
1	N	276	G	N1-C2	6.86	1.43	1.37
1	N	564	C	C5-C6	6.86	1.39	1.34
1	N	1044	A	O3'-P	-6.86	1.52	1.61
1	N	172	A	C6-N6	6.86	1.39	1.33
1	N	585	G	C2'-C1'	-6.86	1.45	1.53
1	N	686	U	C4-C5	6.86	1.49	1.43
1	N	721	G	C2-N2	-6.86	1.27	1.34
1	N	1504	G	P-O5'	-6.86	1.52	1.59
1	N	433	G	C8-N7	6.86	1.35	1.30
1	N	1243	C	C4-N4	6.86	1.40	1.33
1	N	1268	G	C4'-C3'	-6.86	1.45	1.53
1	N	1203	C	N3-C4	6.85	1.38	1.33
1	N	41	G	C2-N3	6.85	1.38	1.32
1	N	505	G	C1'-N9	6.85	1.59	1.48
1	N	1145	A	N7-C5	-6.85	1.35	1.39
1	N	1174	G	C8-N7	-6.85	1.26	1.30
1	N	1527	U	P-O5'	6.85	1.66	1.59
1	N	1295	U	P-O5'	6.85	1.66	1.59
1	N	68	G	N9-C8	-6.85	1.33	1.37
1	N	120	A	N7-C5	-6.85	1.35	1.39
1	N	1294	G	N7-C5	-6.85	1.35	1.39
1	N	395	C	C4-C5	6.85	1.48	1.43
1	N	1371	G	C2-N3	6.85	1.38	1.32
1	N	241	G	P-O5'	6.85	1.66	1.59
1	N	249	U	C2-N3	6.85	1.42	1.37
1	N	441	A	N7-C5	-6.85	1.35	1.39
1	N	778	G	N3-C4	6.84	1.40	1.35
1	N	928	G	C2-N3	6.84	1.38	1.32
1	N	1173	U	C2-N3	6.84	1.42	1.37
1	N	1189	U	N3-C4	6.84	1.44	1.38
1	N	133	U	C4'-O4'	-6.84	1.36	1.45
1	N	177	G	N3-C4	-6.84	1.30	1.35
1	N	756	C	N3-C4	6.84	1.38	1.33
1	N	28	A	C5-C4	6.83	1.43	1.38
1	N	1279	G	C2'-C1'	6.83	1.60	1.53
1	N	39	G	C2-N3	6.83	1.38	1.32
1	N	1128	C	N1-C6	6.83	1.41	1.37
1	N	1295	U	C3'-C2'	6.83	1.60	1.52
1	N	1524	C	C4'-C3'	6.83	1.60	1.53
1	N	246	A	C6-N1	6.83	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	345	C	C4-C5	6.83	1.48	1.43
1	N	986	U	C5'-C4'	6.83	1.59	1.51
1	N	74	A	P-O5'	6.83	1.66	1.59
1	N	240	G	C6-O6	-6.83	1.18	1.24
1	N	563	A	N9-C4	6.83	1.42	1.37
1	N	1394	A	C5'-C4'	6.83	1.59	1.51
1	N	1184	G	C2-N3	6.83	1.38	1.32
1	N	1301	U	C5'-C4'	6.83	1.59	1.51
1	N	250	A	C6-N6	6.82	1.39	1.33
1	N	913	A	C2'-C1'	-6.82	1.45	1.53
1	N	1289	A	N7-C5	-6.82	1.35	1.39
1	N	1332	A	C6-N6	6.82	1.39	1.33
1	N	11	G	C5'-C4'	6.82	1.59	1.51
1	N	82	G	N7-C5	6.82	1.43	1.39
1	N	373	A	C6-N6	6.82	1.39	1.33
1	N	573	A	N9-C4	6.82	1.42	1.37
1	N	213	G	C8-N7	-6.82	1.26	1.30
1	N	914	A	N3-C4	-6.82	1.30	1.34
1	N	1293	C	C5-C6	6.82	1.39	1.34
1	N	1346	A	C8-N7	6.81	1.36	1.31
1	N	935	A	C2'-C1'	-6.81	1.45	1.53
1	N	33	A	C8-N7	-6.81	1.26	1.31
1	N	495	A	N7-C5	-6.81	1.35	1.39
1	N	680	C	C3'-C2'	-6.81	1.45	1.52
1	N	712	A	C4'-O4'	6.81	1.54	1.45
1	N	250	A	N9-C4	6.80	1.42	1.37
1	N	288	A	N9-C8	6.80	1.43	1.37
1	N	491	G	C2'-C1'	-6.80	1.45	1.53
1	N	1180	A	C6-N6	6.80	1.39	1.33
1	N	1358	U	N1-C6	6.80	1.44	1.38
1	N	65	A	C6-N6	6.80	1.39	1.33
1	N	182	A	N7-C5	-6.80	1.35	1.39
1	N	329	A	C5-C4	6.80	1.43	1.38
1	N	867	G	O3'-P	-6.80	1.52	1.61
1	N	12	U	C4-C5	6.80	1.49	1.43
1	N	206	C	C5-C6	-6.80	1.28	1.34
1	N	1044	A	N7-C5	-6.80	1.35	1.39
1	N	901	A	N7-C5	-6.80	1.35	1.39
1	N	1026	G	C2-N3	6.80	1.38	1.32
1	N	1121	U	C4'-C3'	6.80	1.60	1.53
1	N	1155	A	N7-C5	-6.79	1.35	1.39
1	N	71	A	C5-C6	-6.79	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	402	G	O3'-P	-6.79	1.52	1.61
1	N	558	G	C1'-N9	6.79	1.58	1.48
1	N	778	G	C8-N7	6.79	1.35	1.30
1	N	859	G	C6-N1	6.79	1.44	1.39
1	N	204	G	C8-N7	-6.79	1.26	1.30
1	N	488	C	C2'-C1'	-6.79	1.45	1.53
1	N	1136	C	C2-N3	6.79	1.41	1.35
1	N	438	U	C3'-O3'	-6.79	1.32	1.42
1	N	848	C	N1-C6	6.79	1.41	1.37
1	N	867	G	C2-N2	6.79	1.41	1.34
1	N	915	A	C5-C6	-6.79	1.34	1.41
1	N	107	G	C8-N7	6.78	1.35	1.30
1	N	1034	G	C2-N3	6.78	1.38	1.32
1	N	1494	G	C3'-C2'	-6.78	1.45	1.52
1	N	151	A	C5'-C4'	6.78	1.59	1.51
1	N	773	G	C4'-O4'	6.78	1.54	1.45
1	N	579	A	N3-C4	-6.78	1.30	1.34
1	N	863	U	C2-N3	6.78	1.42	1.37
1	N	137	U	C2'-C1'	-6.78	1.45	1.53
1	N	169	C	C4-N4	6.78	1.40	1.33
1	N	621	A	C4'-C3'	6.78	1.60	1.53
1	N	952	U	N3-C4	6.78	1.44	1.38
1	N	1349	A	N1-C2	-6.78	1.28	1.34
1	N	738	C	C2-N3	6.77	1.41	1.35
1	N	901	A	C6-N6	6.77	1.39	1.33
1	N	195	A	C6-N1	6.77	1.40	1.35
1	N	639	G	C4'-C3'	-6.77	1.45	1.53
1	N	1238	A	C6-N1	-6.77	1.30	1.35
1	N	7	A	C5-C4	-6.77	1.34	1.38
1	N	542	G	N3-C4	-6.77	1.30	1.35
1	N	781	A	N3-C4	-6.77	1.30	1.34
1	N	1244	G	N1-C2	6.77	1.43	1.37
1	N	1456	A	C2'-C1'	-6.77	1.46	1.53
1	N	69	G	C5-C4	-6.77	1.33	1.38
1	N	1281	C	C4'-C3'	-6.77	1.45	1.53
1	N	1518	A	C6-N1	6.77	1.40	1.35
1	N	21	G	N7-C5	-6.77	1.35	1.39
1	N	584	G	C8-N7	-6.77	1.26	1.30
1	N	675	A	C4'-O4'	6.76	1.54	1.45
1	N	858	G	C6-N1	6.76	1.44	1.39
1	N	157	U	C2-N3	6.76	1.42	1.37
1	N	391	G	N1-C2	6.76	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	793	U	C3'-C2'	6.76	1.60	1.52
1	N	983	A	N1-C2	6.76	1.40	1.34
1	N	1356	G	N7-C5	-6.76	1.35	1.39
1	N	1253	G	N1-C2	6.76	1.43	1.37
1	N	286	C	C4-C5	6.76	1.48	1.43
1	N	685	G	N7-C5	-6.76	1.35	1.39
1	N	913	A	N9-C4	-6.76	1.33	1.37
1	N	1202	U	C5'-C4'	6.76	1.59	1.51
1	N	1477	U	C5-C6	-6.76	1.28	1.34
1	N	1254	A	N7-C5	-6.75	1.35	1.39
1	N	1411	C	C3'-C2'	-6.75	1.45	1.52
1	N	165	G	C5'-C4'	6.75	1.59	1.51
1	N	172	A	N3-C4	-6.75	1.30	1.34
1	N	1303	C	C4'-O4'	6.75	1.54	1.45
1	N	17	U	P-O5'	-6.75	1.53	1.59
1	N	926	G	N9-C8	-6.75	1.33	1.37
1	N	669	G	C3'-C2'	-6.75	1.45	1.52
1	N	1166	G	C4'-C3'	6.75	1.60	1.53
1	N	324	G	C2'-C1'	-6.75	1.46	1.53
1	N	462	G	N3-C4	-6.75	1.30	1.35
1	N	25	C	N1-C6	-6.75	1.33	1.37
1	N	392	C	N1-C6	-6.74	1.33	1.37
1	N	85	U	N1-C2	6.74	1.44	1.38
1	N	44	A	P-O5'	-6.74	1.53	1.59
1	N	451	A	O3'-P	-6.74	1.53	1.61
1	N	459	A	C3'-C2'	-6.74	1.45	1.52
1	N	758	C	C4'-C3'	6.74	1.60	1.53
1	N	339	C	P-O5'	-6.74	1.53	1.59
1	N	513	C	C5'-C4'	6.74	1.59	1.51
1	N	62	U	N1-C2	-6.74	1.32	1.38
1	N	429	U	N1-C6	-6.74	1.31	1.38
1	N	779	C	C4'-C3'	6.74	1.60	1.53
1	N	854	U	C2'-C1'	-6.73	1.46	1.53
1	N	19	A	N3-C4	-6.73	1.30	1.34
1	N	749	A	N3-C4	-6.73	1.30	1.34
1	N	1271	A	C2-N3	6.73	1.39	1.33
1	N	1350	A	C6-N1	6.73	1.40	1.35
1	N	343	U	C2-N3	-6.73	1.33	1.37
1	N	764	C	C4-C5	6.73	1.48	1.43
1	N	1392	G	N1-C2	6.73	1.43	1.37
1	N	867	G	N7-C5	6.73	1.43	1.39
1	N	1237	C	C3'-O3'	6.73	1.51	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1088	G	O3'-P	-6.72	1.53	1.61
1	N	1190	G	C2-N2	6.72	1.41	1.34
1	N	1487	G	N1-C2	6.72	1.43	1.37
1	N	262	A	N9-C8	6.72	1.43	1.37
1	N	415	A	N7-C5	-6.72	1.35	1.39
1	N	1406	U	O4'-C1'	6.72	1.50	1.41
1	N	200	G	C5-C6	6.72	1.49	1.42
1	N	1149	C	C4'-O4'	-6.72	1.36	1.45
1	N	1421	G	N9-C4	-6.72	1.32	1.38
1	N	725	G	C4'-C3'	6.72	1.60	1.53
1	N	1038	C	N3-C4	6.72	1.38	1.33
1	N	180	U	C3'-C2'	-6.71	1.45	1.52
1	N	319	G	N9-C8	-6.71	1.33	1.37
1	N	297	G	C2'-C1'	-6.71	1.46	1.53
1	N	27	G	C2'-C1'	-6.71	1.46	1.53
1	N	1105	A	N7-C5	-6.71	1.35	1.39
1	N	780	A	N3-C4	-6.71	1.30	1.34
1	N	328	C	C3'-C2'	6.71	1.60	1.52
1	N	435	A	P-O5'	-6.71	1.53	1.59
1	N	529	G	N7-C5	-6.71	1.35	1.39
1	N	996	A	N3-C4	-6.71	1.30	1.34
1	N	1203	C	C1'-N1	6.71	1.58	1.48
1	N	1205	U	N1-C2	-6.71	1.32	1.38
1	N	166	U	N3-C4	6.71	1.44	1.38
1	N	642	A	C8-N7	-6.71	1.26	1.31
1	N	1340	A	C8-N7	-6.71	1.26	1.31
1	N	65	A	C3'-C2'	6.70	1.60	1.52
1	N	201	G	N1-C2	6.70	1.43	1.37
1	N	374	A	C6-N1	6.70	1.40	1.35
1	N	260	G	N7-C5	-6.70	1.35	1.39
1	N	338	A	P-O5'	-6.70	1.53	1.59
1	N	1121	U	C4-C5	-6.70	1.37	1.43
1	N	520	A	N9-C4	-6.70	1.33	1.37
1	N	918	A	C6-N1	6.70	1.40	1.35
1	N	942	G	C6-N1	-6.70	1.34	1.39
1	N	96	U	C4'-C3'	6.70	1.60	1.53
1	N	460	A	C8-N7	-6.70	1.26	1.31
1	N	1487	G	C5-C6	-6.70	1.35	1.42
1	N	373	A	C6-N1	6.69	1.40	1.35
1	N	933	G	N1-C2	6.69	1.43	1.37
1	N	425	G	C6-N1	6.69	1.44	1.39
1	N	443	C	O3'-P	6.69	1.69	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	848	C	C2'-C1'	-6.69	1.46	1.53
1	N	932	C	C4-C5	-6.69	1.37	1.43
1	N	1285	A	N9-C8	-6.69	1.32	1.37
1	N	406	G	C2'-O2'	-6.69	1.32	1.41
1	N	1016	A	N9-C4	-6.69	1.33	1.37
1	N	1450	U	N3-C4	6.69	1.44	1.38
1	N	1502	A	N7-C5	-6.69	1.35	1.39
1	N	609	A	C2'-C1'	-6.69	1.46	1.53
1	N	1212	U	N1-C2	6.69	1.44	1.38
1	N	417	G	C4'-C3'	-6.69	1.45	1.53
1	N	1322	C	P-O5'	-6.69	1.53	1.59
1	N	423	G	C2-N3	6.68	1.38	1.32
1	N	651	C	C4-C5	6.68	1.48	1.43
1	N	1124	G	N9-C8	6.68	1.42	1.37
1	N	13	U	C2-N3	6.68	1.42	1.37
1	N	452	A	C5'-C4'	6.68	1.59	1.51
1	N	1231	G	C2-N3	6.68	1.38	1.32
1	N	912	C	C4-C5	-6.68	1.37	1.43
1	N	306	A	C8-N7	6.68	1.36	1.31
1	N	637	C	C5'-C4'	6.68	1.59	1.51
1	N	360	G	C2-N2	6.67	1.41	1.34
1	N	895	G	N1-C2	6.67	1.43	1.37
1	N	1256	A	N3-C4	-6.67	1.30	1.34
1	N	381	C	C1'-N1	6.67	1.58	1.48
1	N	396	C	N1-C6	6.67	1.41	1.37
1	N	663	A	C6-N6	6.67	1.39	1.33
1	N	1246	A	O3'-P	-6.67	1.53	1.61
1	N	31	G	C2-N2	6.67	1.41	1.34
1	N	1470	U	C5'-C4'	6.67	1.59	1.51
1	N	398	U	C2-N3	6.67	1.42	1.37
1	N	555	U	C2-N3	6.67	1.42	1.37
1	N	1108	G	N1-C2	6.67	1.43	1.37
1	N	406	G	C5-C4	-6.67	1.33	1.38
1	N	1259	C	C4-C5	6.67	1.48	1.43
1	N	1300	G	C5-C4	6.67	1.43	1.38
1	N	1530	G	C3'-C2'	6.67	1.60	1.52
1	N	659	U	N1-C6	-6.67	1.31	1.38
1	N	205	A	C4'-O4'	6.66	1.54	1.45
1	N	216	U	C3'-C2'	-6.66	1.45	1.52
1	N	347	G	O4'-C1'	6.66	1.50	1.41
1	N	1310	G	C2-N3	6.66	1.38	1.32
1	N	314	C	C3'-C2'	6.66	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1404	C	N1-C6	6.66	1.41	1.37
1	N	98	A	N7-C5	6.66	1.43	1.39
1	N	1089	G	C3'-C2'	-6.66	1.45	1.52
1	N	1128	C	C4-N4	6.66	1.40	1.33
1	N	1036	A	C4'-C3'	6.66	1.60	1.53
1	N	1170	A	C2'-C1'	-6.66	1.46	1.53
1	N	490	C	C3'-C2'	-6.66	1.45	1.52
1	N	1074	G	N1-C2	6.66	1.43	1.37
1	N	1434	A	N3-C4	-6.66	1.30	1.34
1	N	1473	G	N9-C4	-6.66	1.32	1.38
1	N	1042	A	N9-C4	-6.65	1.33	1.37
1	N	1290	G	N9-C4	-6.65	1.32	1.38
1	N	844	G	N3-C4	-6.65	1.30	1.35
1	N	1133	G	O3'-P	-6.65	1.53	1.61
1	N	1207	G	N9-C4	-6.65	1.32	1.38
1	N	316	C	C3'-C2'	6.65	1.60	1.52
1	N	761	G	C8-N7	-6.65	1.26	1.30
1	N	1354	U	C5'-C4'	6.65	1.59	1.51
1	N	59	A	C6-N1	6.65	1.40	1.35
1	N	594	U	N3-C4	6.65	1.44	1.38
1	N	648	A	C6-N6	6.65	1.39	1.33
1	N	928	G	P-O5'	-6.65	1.53	1.59
1	N	1087	G	N1-C2	6.65	1.43	1.37
1	N	76	G	P-O5'	-6.64	1.53	1.59
1	N	816	A	C2'-C1'	-6.64	1.46	1.53
1	N	1259	C	C4'-C3'	6.64	1.60	1.53
1	N	1103	C	N3-C4	6.64	1.38	1.33
1	N	1139	G	N3-C4	-6.64	1.30	1.35
1	N	1409	C	C4'-O4'	6.64	1.54	1.45
1	N	1533	C	N1-C6	-6.64	1.33	1.37
1	N	119	A	C3'-C2'	-6.64	1.45	1.52
1	N	213	G	C5'-C4'	6.64	1.59	1.51
1	N	1407	C	C4-N4	6.64	1.40	1.33
1	N	1459	G	C2-N3	6.64	1.38	1.32
1	N	437	U	C5'-C4'	6.64	1.59	1.51
1	N	1230	C	C4-C5	6.64	1.48	1.43
1	N	620	C	N1-C6	-6.64	1.33	1.37
1	N	1132	C	C3'-C2'	6.64	1.60	1.52
1	N	168	G	C3'-C2'	-6.63	1.45	1.52
1	N	1326	U	C3'-C2'	6.63	1.60	1.52
1	N	295	C	C1'-N1	6.63	1.58	1.48
1	N	371	A	N3-C4	-6.63	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	425	G	N3-C4	-6.63	1.30	1.35
1	N	720	C	C4-N4	6.63	1.40	1.33
1	N	759	A	N9-C4	-6.63	1.33	1.37
1	N	1215	G	N7-C5	-6.63	1.35	1.39
1	N	1494	G	N1-C2	6.63	1.43	1.37
1	N	936	C	N1-C6	-6.63	1.33	1.37
1	N	211	G	C5-C4	-6.63	1.33	1.38
1	N	393	A	C5'-C4'	6.63	1.59	1.51
1	N	597	G	N3-C4	6.63	1.40	1.35
1	N	459	A	N7-C5	-6.62	1.35	1.39
1	N	926	G	C2-N3	6.62	1.38	1.32
1	N	1207	G	C2'-C1'	-6.62	1.46	1.53
1	N	1488	G	C2-N3	6.62	1.38	1.32
1	N	259	G	N9-C8	6.62	1.42	1.37
1	N	667	G	P-O5'	6.62	1.66	1.59
1	N	741	G	C5'-C4'	-6.62	1.43	1.51
1	N	7	A	N3-C4	-6.62	1.30	1.34
1	N	961	U	C4-C5	6.62	1.49	1.43
1	N	208	U	C2-N3	-6.62	1.33	1.37
1	N	506	G	N7-C5	-6.62	1.35	1.39
1	N	810	C	C5-C6	-6.62	1.29	1.34
1	N	819	A	C2'-C1'	-6.62	1.46	1.53
1	N	917	G	N1-C2	6.62	1.43	1.37
1	N	39	G	N9-C4	-6.61	1.32	1.38
1	N	91	U	N3-C4	6.61	1.44	1.38
1	N	506	G	P-O5'	-6.61	1.53	1.59
1	N	1487	G	C2-N3	6.61	1.38	1.32
1	N	211	G	N9-C4	-6.61	1.32	1.38
1	N	615	G	C2-N3	6.61	1.38	1.32
1	N	1324	A	C5-C4	6.61	1.43	1.38
1	N	1401	G	O3'-P	-6.61	1.53	1.61
1	N	881	G	C4'-O4'	-6.61	1.36	1.45
1	N	989	U	C5'-C4'	6.61	1.59	1.51
1	N	1316	G	C5'-C4'	6.61	1.59	1.51
1	N	588	G	C2'-C1'	-6.60	1.46	1.53
1	N	941	G	N3-C4	6.60	1.40	1.35
1	N	973	G	C6-N1	6.60	1.44	1.39
1	N	1390	U	C4'-O4'	-6.60	1.36	1.45
1	N	868	C	C2-N3	6.60	1.41	1.35
1	N	1160	G	N7-C5	-6.60	1.35	1.39
1	N	654	G	C4'-C3'	-6.60	1.45	1.53
1	N	1142	G	C3'-C2'	6.60	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	975	A	N9-C8	6.59	1.43	1.37
1	N	263	A	C3'-C2'	-6.59	1.45	1.52
1	N	1176	A	C6-N6	6.59	1.39	1.33
1	N	1193	G	N1-C2	6.59	1.43	1.37
1	N	1321	U	C4'-C3'	6.59	1.60	1.53
1	N	1452	C	C4-C5	6.59	1.48	1.43
1	N	482	A	O3'-P	-6.59	1.53	1.61
1	N	927	G	C8-N7	-6.59	1.26	1.30
1	N	1408	A	C8-N7	-6.58	1.26	1.31
1	N	268	U	N3-C4	6.58	1.44	1.38
1	N	700	G	C3'-C2'	-6.58	1.45	1.52
1	N	838	G	C5'-C4'	6.58	1.59	1.51
1	N	1166	G	C8-N7	6.58	1.34	1.30
1	N	1332	A	O4'-C1'	6.58	1.50	1.41
1	N	64	G	N9-C8	-6.58	1.33	1.37
1	N	1134	G	C8-N7	-6.58	1.27	1.30
1	N	1211	U	N3-C4	6.58	1.44	1.38
1	N	1481	U	C2-N3	6.58	1.42	1.37
1	N	17	U	C4-O4	6.58	1.28	1.23
1	N	176	C	N3-C4	6.58	1.38	1.33
1	N	762	U	C4'-C3'	6.58	1.60	1.53
1	N	478	A	C5-C4	6.58	1.43	1.38
1	N	1082	A	C2'-C1'	-6.57	1.46	1.53
1	N	1288	A	N3-C4	-6.57	1.30	1.34
1	N	319	G	C6-N1	6.57	1.44	1.39
1	N	1067	A	N9-C4	-6.57	1.33	1.37
1	N	1143	G	C4'-C3'	6.57	1.60	1.53
1	N	279	A	C8-N7	-6.57	1.26	1.31
1	N	626	G	N3-C4	6.57	1.40	1.35
1	N	1080	A	N7-C5	-6.57	1.35	1.39
1	N	1300	G	C6-N1	6.57	1.44	1.39
1	N	246	A	O4'-C1'	-6.56	1.33	1.41
1	N	887	G	N3-C4	-6.56	1.30	1.35
1	N	226	G	N3-C4	-6.56	1.30	1.35
1	N	11	G	N7-C5	-6.56	1.35	1.39
1	N	938	A	C2-N3	6.56	1.39	1.33
1	N	1058	G	C3'-C2'	-6.56	1.45	1.52
1	N	97	G	C2-N3	6.56	1.38	1.32
1	N	614	C	C1'-N1	6.56	1.58	1.48
1	N	1285	A	C6-N1	6.56	1.40	1.35
1	N	156	C	O3'-P	-6.55	1.53	1.61
1	N	824	G	O3'-P	-6.55	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1109	C	C4-N4	6.55	1.39	1.33
1	N	1304	G	N9-C8	6.55	1.42	1.37
1	N	472	U	C3'-O3'	6.55	1.51	1.42
1	N	818	G	C5-C4	6.55	1.43	1.38
1	N	1415	G	N7-C5	-6.55	1.35	1.39
1	N	359	G	C5-C6	-6.55	1.35	1.42
1	N	411	A	C2'-C1'	-6.55	1.46	1.53
1	N	562	U	C5'-C4'	6.55	1.59	1.51
1	N	1073	U	C1'-N1	6.55	1.58	1.48
1	N	1150	A	N3-C4	-6.55	1.30	1.34
1	N	100	G	C2-N2	6.55	1.41	1.34
1	N	1177	G	N9-C4	-6.55	1.32	1.38
1	N	1347	G	C2-N3	6.55	1.38	1.32
1	N	1458	G	C2-N2	6.55	1.41	1.34
1	N	177	G	C2-N2	6.54	1.41	1.34
1	N	909	A	C8-N7	-6.54	1.26	1.31
1	N	243	A	N3-C4	-6.54	1.30	1.34
1	N	696	A	C5-C6	-6.54	1.35	1.41
1	N	614	C	C4'-C3'	-6.54	1.46	1.53
1	N	716	A	N7-C5	-6.54	1.35	1.39
1	N	748	G	C2'-C1'	-6.54	1.46	1.53
1	N	781	A	C6-N1	6.54	1.40	1.35
1	N	1338	G	C8-N7	6.54	1.34	1.30
1	N	19	A	C2'-C1'	6.53	1.60	1.53
1	N	94	G	C4'-C3'	6.53	1.60	1.53
1	N	745	G	C2-N3	6.53	1.38	1.32
1	N	1031	C	N1-C6	6.53	1.41	1.37
1	N	1330	U	N3-C4	6.53	1.44	1.38
1	N	1491	G	N9-C8	-6.53	1.33	1.37
1	N	1194	U	C2'-C1'	-6.53	1.46	1.53
1	N	1316	G	O3'-P	-6.53	1.53	1.61
1	N	241	G	N9-C8	6.53	1.42	1.37
1	N	264	C	C4-N4	6.53	1.39	1.33
1	N	299	G	C2'-C1'	-6.53	1.46	1.53
1	N	299	G	C8-N7	6.53	1.34	1.30
1	N	560	A	N3-C4	-6.53	1.30	1.34
1	N	1184	G	N9-C4	6.53	1.43	1.38
1	N	1269	A	N9-C8	-6.53	1.32	1.37
1	N	549	C	C5-C6	6.53	1.39	1.34
1	N	1061	G	C1'-N9	6.53	1.58	1.48
1	N	1181	G	C6-N1	6.52	1.44	1.39
1	N	216	U	C2-N3	6.52	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	750	C	N1-C2	-6.52	1.33	1.40
1	N	913	A	N7-C5	-6.52	1.35	1.39
1	N	14	U	P-O5'	6.52	1.66	1.59
1	N	133	U	C2-N3	6.52	1.42	1.37
1	N	355	C	C4-C5	-6.52	1.37	1.43
1	N	465	A	N9-C8	6.52	1.43	1.37
1	N	1451	U	P-O5'	-6.52	1.53	1.59
1	N	1496	C	C1'-N1	6.52	1.58	1.48
1	N	143	A	N7-C5	-6.51	1.35	1.39
1	N	512	U	C5-C6	6.51	1.40	1.34
1	N	1146	A	N7-C5	-6.51	1.35	1.39
1	N	566	G	N7-C5	-6.51	1.35	1.39
1	N	740	U	C4-O4	6.51	1.28	1.23
1	N	829	G	C6-N1	6.51	1.44	1.39
1	N	1030	U	C2-N3	6.51	1.42	1.37
1	N	1079	G	C3'-C2'	-6.51	1.45	1.52
1	N	941	G	N9-C4	-6.51	1.32	1.38
1	N	542	G	C2-N2	6.51	1.41	1.34
1	N	949	A	C3'-C2'	-6.51	1.45	1.52
1	N	75	G	O4'-C1'	6.50	1.50	1.41
1	N	639	G	C8-N7	-6.50	1.27	1.30
1	N	533	A	P-O5'	-6.50	1.53	1.59
1	N	500	G	N7-C5	-6.50	1.35	1.39
1	N	781	A	C6-N6	6.50	1.39	1.33
1	N	979	C	N3-C4	6.50	1.38	1.33
1	N	1269	A	N9-C4	6.50	1.41	1.37
1	N	94	G	N9-C4	-6.50	1.32	1.38
1	N	1412	C	C5-C6	6.50	1.39	1.34
1	N	1517	G	C8-N7	-6.50	1.27	1.30
1	N	557	G	O3'-P	-6.50	1.53	1.61
1	N	581	G	C2-N3	6.50	1.38	1.32
1	N	675	A	N1-C2	6.50	1.40	1.34
1	N	59	A	P-O5'	-6.50	1.53	1.59
1	N	597	G	O4'-C1'	6.49	1.50	1.41
1	N	808	C	N3-C4	6.49	1.38	1.33
1	N	853	C	C4-C5	6.49	1.48	1.43
1	N	1175	G	C5-C4	6.49	1.42	1.38
1	N	395	C	C2-N3	6.49	1.41	1.35
1	N	431	A	N9-C8	6.49	1.43	1.37
1	N	843	U	C3'-C2'	6.49	1.60	1.52
1	N	1069	C	P-O5'	-6.49	1.53	1.59
1	N	1227	A	O3'-P	-6.49	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1447	A	N9-C8	6.49	1.43	1.37
1	N	791	G	N3-C4	-6.49	1.30	1.35
1	N	300	A	C6-N1	6.49	1.40	1.35
1	N	617	G	N1-C2	6.48	1.43	1.37
1	N	766	A	N3-C4	-6.48	1.30	1.34
1	N	1029	U	C4'-C3'	6.48	1.60	1.53
1	N	25	C	C4'-C3'	6.48	1.60	1.53
1	N	774	G	N9-C4	6.48	1.43	1.38
1	N	903	G	C4'-C3'	-6.48	1.46	1.53
1	N	1092	A	C2'-C1'	-6.48	1.46	1.53
1	N	630	A	C2-N3	6.48	1.39	1.33
1	N	100	G	C5-C6	-6.48	1.35	1.42
1	N	121	U	C2'-C1'	-6.48	1.46	1.53
1	N	585	G	N7-C5	-6.48	1.35	1.39
1	N	1337	G	C2'-C1'	-6.48	1.46	1.53
1	N	421	U	C2-N3	6.48	1.42	1.37
1	N	947	G	C6-N1	6.48	1.44	1.39
1	N	1422	G	C5-C6	6.48	1.48	1.42
1	N	298	A	C3'-C2'	6.47	1.60	1.52
1	N	504	C	C3'-C2'	6.47	1.60	1.52
1	N	511	C	C2-N3	6.47	1.41	1.35
1	N	441	A	C5-C4	6.47	1.43	1.38
1	N	655	A	C8-N7	-6.47	1.27	1.31
1	N	987	G	N9-C4	-6.47	1.32	1.38
1	N	709	U	N1-C2	-6.47	1.32	1.38
1	N	534	U	C4-C5	6.47	1.49	1.43
1	N	308	C	C4'-C3'	6.47	1.60	1.53
1	N	68	G	N1-C2	6.47	1.43	1.37
1	N	1465	A	N1-C2	6.47	1.40	1.34
1	N	32	A	P-O5'	-6.46	1.53	1.59
1	N	126	G	N1-C2	6.46	1.43	1.37
1	N	633	G	C2-N3	6.46	1.38	1.32
1	N	1485	U	P-O5'	-6.46	1.53	1.59
1	N	115	G	N9-C8	-6.46	1.33	1.37
1	N	469	C	C2-N3	6.46	1.41	1.35
1	N	980	C	N1-C6	-6.46	1.33	1.37
1	N	306	A	C5-C4	6.46	1.43	1.38
1	N	563	A	C6-N1	6.46	1.40	1.35
1	N	815	A	N7-C5	-6.46	1.35	1.39
1	N	862	C	C2-N3	-6.46	1.30	1.35
1	N	954	G	C6-N1	6.46	1.44	1.39
1	N	1318	A	N9-C8	-6.46	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	675	A	N3-C4	-6.46	1.30	1.34
1	N	1244	G	N9-C4	-6.46	1.32	1.38
1	N	1385	G	C8-N7	6.46	1.34	1.30
1	N	1516	G	N1-C2	6.46	1.43	1.37
1	N	324	G	C3'-C2'	-6.45	1.45	1.52
1	N	1406	U	C4'-C3'	6.45	1.60	1.53
1	N	93	U	C4'-C3'	6.45	1.60	1.53
1	N	1130	A	N3-C4	-6.45	1.30	1.34
1	N	477	C	C4-N4	6.45	1.39	1.33
1	N	1239	A	O3'-P	-6.45	1.53	1.61
1	N	1426	G	N7-C5	-6.45	1.35	1.39
1	N	298	A	C6-N6	6.45	1.39	1.33
1	N	453	G	N9-C8	6.45	1.42	1.37
1	N	1379	G	N9-C4	-6.45	1.32	1.38
1	N	1388	C	N1-C6	6.45	1.41	1.37
1	N	1258	G	C2-N2	-6.45	1.28	1.34
1	N	112	G	C8-N7	6.45	1.34	1.30
1	N	1421	G	C2'-C1'	6.44	1.60	1.53
1	N	95	C	N3-C4	6.44	1.38	1.33
1	N	251	G	C5-C4	-6.44	1.33	1.38
1	N	615	G	P-O5'	-6.44	1.53	1.59
1	N	1290	G	P-O5'	-6.44	1.53	1.59
1	N	1460	C	P-O5'	-6.44	1.53	1.59
1	N	1521	C	O3'-P	-6.44	1.53	1.61
1	N	104	G	C8-N7	6.44	1.34	1.30
1	N	169	C	C2-O2	6.44	1.30	1.24
1	N	305	G	C5-C6	-6.44	1.35	1.42
1	N	363	A	N9-C4	6.44	1.41	1.37
1	N	876	C	C2'-C1'	6.44	1.60	1.53
1	N	445	G	N3-C4	-6.44	1.30	1.35
1	N	240	G	N1-C2	6.44	1.43	1.37
1	N	289	G	N7-C5	-6.44	1.35	1.39
1	N	705	G	N9-C4	6.44	1.43	1.38
1	N	1059	C	N1-C6	6.44	1.41	1.37
1	N	828	U	C4'-C3'	6.43	1.60	1.53
1	N	1028	C	C5-C6	-6.43	1.29	1.34
1	N	146	G	N3-C4	-6.43	1.30	1.35
1	N	477	C	O3'-P	-6.43	1.53	1.61
1	N	1513	A	C6-N1	6.43	1.40	1.35
1	N	1351	U	N3-C4	6.43	1.44	1.38
1	N	439	U	O4'-C1'	6.43	1.50	1.41
1	N	595	A	C8-N7	-6.43	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	622	A	N7-C5	-6.43	1.35	1.39
1	N	733	G	N7-C5	-6.43	1.35	1.39
1	N	1105	A	C2-N3	6.43	1.39	1.33
1	N	1442	G	C1'-N9	6.43	1.58	1.48
1	N	19	A	C6-N6	6.42	1.39	1.33
1	N	299	G	N7-C5	-6.42	1.35	1.39
1	N	805	C	C3'-C2'	6.42	1.60	1.52
1	N	1493	A	C1'-N9	6.42	1.58	1.48
1	N	1306	A	C2'-C1'	6.42	1.60	1.53
1	N	1521	C	N1-C6	6.42	1.41	1.37
1	N	399	G	N9-C8	-6.42	1.33	1.37
1	N	1128	C	N3-C4	6.42	1.38	1.33
1	N	1149	C	C2'-C1'	6.42	1.60	1.53
1	N	1393	U	P-O5'	6.42	1.66	1.59
1	N	473	U	C2'-C1'	-6.42	1.46	1.53
1	N	388	G	O3'-P	-6.42	1.53	1.61
1	N	575	G	N9-C4	-6.41	1.32	1.38
1	N	615	G	N7-C5	-6.41	1.35	1.39
1	N	572	A	C6-N1	6.41	1.40	1.35
1	N	1098	C	N1-C6	6.41	1.41	1.37
1	N	141	G	O3'-P	-6.41	1.53	1.61
1	N	254	G	N9-C4	-6.41	1.32	1.38
1	N	860	A	C2'-C1'	-6.41	1.46	1.53
1	N	587	G	C6-N1	6.41	1.44	1.39
1	N	1470	U	C4-O4	6.41	1.28	1.23
1	N	325	A	N7-C5	-6.41	1.35	1.39
1	N	672	U	C2-N3	6.41	1.42	1.37
1	N	60	A	P-O5'	-6.40	1.53	1.59
1	N	1020	G	C3'-C2'	-6.40	1.45	1.52
1	N	1497	G	C4'-O4'	6.40	1.53	1.45
1	N	611	C	N1-C6	6.40	1.41	1.37
1	N	654	G	C2'-C1'	-6.40	1.46	1.53
1	N	1281	C	C4-C5	6.40	1.48	1.43
1	N	24	U	C4-O4	-6.40	1.18	1.23
1	N	220	G	C4'-O4'	6.40	1.53	1.45
1	N	561	U	C5'-C4'	6.40	1.59	1.51
1	N	1262	C	C4-N4	6.40	1.39	1.33
1	N	1494	G	P-O5'	6.40	1.66	1.59
1	N	1107	C	C3'-C2'	6.40	1.59	1.52
1	N	81	A	C6-N1	6.40	1.40	1.35
1	N	862	C	C4'-C3'	-6.40	1.46	1.53
1	N	1415	G	N1-C2	6.40	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	580	C	C5'-C4'	6.40	1.59	1.51
1	N	989	U	N3-C4	6.40	1.44	1.38
1	N	1439	G	C4'-C3'	6.40	1.60	1.53
1	N	740	U	C2-N3	6.39	1.42	1.37
1	N	910	C	N3-C4	6.39	1.38	1.33
1	N	1439	G	O4'-C1'	-6.39	1.33	1.41
1	N	1188	A	C6-N1	-6.39	1.31	1.35
1	N	1489	G	C8-N7	-6.39	1.27	1.30
1	N	275	G	N1-C2	6.38	1.42	1.37
1	N	997	U	C3'-C2'	-6.38	1.45	1.52
1	N	370	C	C3'-C2'	-6.38	1.45	1.52
1	N	1158	C	C4-N4	6.38	1.39	1.33
1	N	1200	C	C4-N4	6.38	1.39	1.33
1	N	938	A	O3'-P	-6.38	1.53	1.61
1	N	1399	C	C4-C5	-6.38	1.37	1.43
1	N	791	G	C2-N2	6.38	1.41	1.34
1	N	251	G	N9-C8	6.38	1.42	1.37
1	N	570	G	N1-C2	6.38	1.42	1.37
1	N	1076	U	O3'-P	-6.38	1.53	1.61
1	N	763	G	N9-C4	-6.38	1.32	1.38
1	N	544	G	C6-O6	-6.37	1.18	1.24
1	N	644	U	C2-N3	6.37	1.42	1.37
1	N	647	C	O3'-P	6.37	1.68	1.61
1	N	1159	U	N1-C2	6.37	1.44	1.38
1	N	1344	C	C1'-N1	6.37	1.58	1.48
1	N	705	G	C3'-C2'	-6.37	1.45	1.52
1	N	918	A	C5-C4	6.37	1.43	1.38
1	N	1252	A	N9-C4	-6.37	1.34	1.37
1	N	1170	A	N9-C8	-6.37	1.32	1.37
1	N	15	G	N7-C5	-6.37	1.35	1.39
1	N	280	C	C4-N4	6.37	1.39	1.33
1	N	694	A	N9-C4	-6.37	1.34	1.37
1	N	763	G	P-O5'	-6.37	1.53	1.59
1	N	1353	G	P-O5'	6.37	1.66	1.59
1	N	1493	A	N9-C8	-6.37	1.32	1.37
1	N	940	C	P-O5'	-6.37	1.53	1.59
1	N	1476	A	N7-C5	-6.37	1.35	1.39
1	N	1337	G	O3'-P	-6.37	1.53	1.61
1	N	856	C	C2-N3	6.36	1.40	1.35
1	N	978	A	C5-C4	6.36	1.43	1.38
1	N	1095	U	C1'-N1	6.36	1.58	1.48
1	N	942	G	N3-C4	-6.36	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	146	G	C4'-O4'	6.36	1.53	1.45
1	N	144	G	C5-C4	-6.36	1.33	1.38
1	N	306	A	N7-C5	-6.36	1.35	1.39
1	N	1347	G	C2'-C1'	-6.36	1.46	1.53
1	N	57	G	C2-N3	6.35	1.37	1.32
1	N	1271	A	C6-N1	6.35	1.40	1.35
1	N	1166	G	N7-C5	-6.35	1.35	1.39
1	N	361	G	N9-C4	-6.35	1.32	1.38
1	N	409	U	C5'-C4'	6.35	1.58	1.51
1	N	959	A	N7-C5	-6.35	1.35	1.39
1	N	1476	A	C6-N6	6.35	1.39	1.33
1	N	437	U	C4'-C3'	6.35	1.60	1.53
1	N	619	U	C2-N3	6.35	1.42	1.37
1	N	885	G	O3'-P	-6.35	1.53	1.61
1	N	948	C	P-O5'	-6.35	1.53	1.59
1	N	1161	C	C4-C5	-6.35	1.37	1.43
1	N	1382	C	N3-C4	6.35	1.38	1.33
1	N	1232	U	N1-C2	6.35	1.44	1.38
1	N	1421	G	N9-C8	-6.35	1.33	1.37
1	N	10	A	C1'-N9	6.34	1.58	1.48
1	N	71	A	N3-C4	6.34	1.38	1.34
1	N	497	G	C6-N1	6.34	1.44	1.39
1	N	706	A	N7-C5	-6.34	1.35	1.39
1	N	1335	U	C4-C5	6.34	1.49	1.43
1	N	1228	C	C4-N4	6.34	1.39	1.33
1	N	1530	G	P-O5'	6.34	1.66	1.59
1	N	142	G	C2-N3	6.34	1.37	1.32
1	N	404	G	C2-N2	6.34	1.40	1.34
1	N	445	G	C8-N7	6.34	1.34	1.30
1	N	1123	U	N3-C4	6.34	1.44	1.38
1	N	568	G	N9-C8	6.34	1.42	1.37
1	N	1296	C	C5-C6	-6.34	1.29	1.34
1	N	516	U	C2'-C1'	-6.34	1.46	1.53
1	N	1375	A	O4'-C1'	6.34	1.49	1.41
1	N	1296	C	C4'-O4'	-6.33	1.37	1.45
1	N	962	C	C2-N3	6.33	1.40	1.35
1	N	44	A	N1-C2	6.33	1.40	1.34
1	N	168	G	C4'-C3'	6.33	1.60	1.53
1	N	109	A	C2'-C1'	6.33	1.60	1.53
1	N	1113	C	C2'-C1'	-6.33	1.46	1.53
1	N	606	G	P-O5'	6.33	1.66	1.59
1	N	283	U	C4-C5	6.33	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	340	U	C2'-C1'	-6.33	1.46	1.53
1	N	1522	U	C5'-C4'	6.33	1.58	1.51
1	N	647	C	C2-N3	6.32	1.40	1.35
1	N	1231	G	N7-C5	-6.32	1.35	1.39
1	N	1427	C	C4'-C3'	6.32	1.60	1.53
1	N	468	A	P-O5'	-6.32	1.53	1.59
1	N	1005	A	C2'-C1'	-6.32	1.46	1.53
1	N	1233	G	N1-C2	6.32	1.42	1.37
1	N	1355	G	N1-C2	6.32	1.42	1.37
1	N	956	U	C2-N3	6.32	1.42	1.37
1	N	504	C	C4-C5	6.32	1.48	1.43
1	N	792	A	C6-N6	6.32	1.39	1.33
1	N	1049	U	O3'-P	-6.32	1.53	1.61
1	N	146	G	C3'-C2'	6.32	1.59	1.52
1	N	584	G	C5-C4	6.32	1.42	1.38
1	N	722	G	C2-N3	6.32	1.37	1.32
1	N	1106	G	C4'-C3'	6.32	1.60	1.53
1	N	41	G	N9-C4	6.31	1.43	1.38
1	N	177	G	C2'-C1'	-6.31	1.46	1.53
1	N	1371	G	C2-N2	6.31	1.40	1.34
1	N	233	C	P-O5'	-6.31	1.53	1.59
1	N	1311	A	N9-C4	-6.31	1.34	1.37
1	N	1426	G	C2-N2	6.31	1.40	1.34
1	N	632	U	N3-C4	-6.31	1.32	1.38
1	N	857	C	C1'-N1	6.31	1.58	1.48
1	N	1164	G	C6-N1	6.31	1.44	1.39
1	N	1337	G	C2-N3	6.31	1.37	1.32
1	N	1468	A	C5'-C4'	6.31	1.58	1.51
1	N	182	A	C2'-C1'	-6.31	1.46	1.53
1	N	838	G	N1-C2	6.31	1.42	1.37
1	N	8	A	C8-N7	6.31	1.35	1.31
1	N	520	A	C3'-O3'	6.31	1.50	1.42
1	N	1252	A	N7-C5	-6.31	1.35	1.39
1	N	1255	G	C2'-C1'	-6.31	1.46	1.53
1	N	1371	G	C8-N7	6.31	1.34	1.30
1	N	706	A	C6-N1	6.31	1.40	1.35
1	N	1530	G	C5'-C4'	6.30	1.58	1.51
1	N	314	C	N3-C4	6.30	1.38	1.33
1	N	1168	U	P-O5'	-6.30	1.53	1.59
1	N	287	U	C4'-C3'	6.30	1.60	1.53
1	N	548	G	N3-C4	6.30	1.39	1.35
1	N	1024	G	C5'-C4'	6.30	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1391	U	C4-O4	6.30	1.28	1.23
1	N	735	C	C2-O2	-6.30	1.18	1.24
1	N	820	U	C2-O2	6.30	1.28	1.22
1	N	1013	G	C2'-O2'	-6.30	1.33	1.41
1	N	505	G	N1-C2	6.30	1.42	1.37
1	N	102	G	C5-C6	-6.30	1.36	1.42
1	N	618	C	C4-N4	6.30	1.39	1.33
1	N	1252	A	N9-C8	6.30	1.42	1.37
1	N	160	A	O3'-P	-6.29	1.53	1.61
1	N	1377	A	C8-N7	-6.29	1.27	1.31
1	N	1082	A	C6-N6	6.29	1.39	1.33
1	N	1439	G	N7-C5	-6.29	1.35	1.39
1	N	889	A	C2'-C1'	-6.29	1.46	1.53
1	N	1154	G	N3-C4	6.29	1.39	1.35
1	N	155	A	C6-N6	6.29	1.39	1.33
1	N	295	C	C4-C5	6.29	1.48	1.43
1	N	431	A	C5-C4	6.29	1.43	1.38
1	N	1230	C	C4'-C3'	6.28	1.60	1.53
1	N	1184	G	C3'-C2'	6.28	1.59	1.52
1	N	407	U	N3-C4	6.28	1.44	1.38
1	N	324	G	P-O5'	-6.28	1.53	1.59
1	N	754	C	C5'-C4'	6.28	1.58	1.51
1	N	907	A	C6-N1	6.28	1.40	1.35
1	N	922	G	C2-N2	6.28	1.40	1.34
1	N	1310	G	C2'-C1'	-6.28	1.46	1.53
1	N	1469	C	C4-N4	6.28	1.39	1.33
1	N	628	G	C6-N1	6.28	1.44	1.39
1	N	1360	A	N9-C4	6.28	1.41	1.37
1	N	1248	A	N9-C8	6.27	1.42	1.37
1	N	1324	A	C6-N6	6.27	1.39	1.33
1	N	1489	G	C2-N3	6.27	1.37	1.32
1	N	307	C	N3-C4	6.27	1.38	1.33
1	N	406	G	C2-N3	6.27	1.37	1.32
1	N	693	G	C4'-O4'	6.27	1.53	1.45
1	N	808	C	C5'-C4'	6.27	1.58	1.51
1	N	822	U	N3-C4	6.27	1.44	1.38
1	N	1196	A	C3'-C2'	6.27	1.59	1.52
1	N	191	G	O3'-P	-6.27	1.53	1.61
1	N	219	U	N3-C4	6.27	1.44	1.38
1	N	379	C	C3'-C2'	6.27	1.59	1.52
1	N	605	U	P-O5'	6.27	1.66	1.59
1	N	611	C	C2-N3	6.27	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	109	A	C8-N7	-6.27	1.27	1.31
1	N	537	G	N7-C5	-6.27	1.35	1.39
1	N	1013	G	C6-O6	-6.27	1.18	1.24
1	N	666	G	N9-C8	-6.27	1.33	1.37
1	N	59	A	O4'-C1'	-6.26	1.33	1.41
1	N	755	G	C4'-O4'	6.26	1.53	1.45
1	N	963	G	C5'-C4'	6.26	1.58	1.51
1	N	1434	A	C8-N7	-6.26	1.27	1.31
1	N	451	A	C6-N6	6.26	1.39	1.33
1	N	752	G	N7-C5	-6.26	1.35	1.39
1	N	1219	A	O3'-P	-6.26	1.53	1.61
1	N	899	C	C2-N3	6.26	1.40	1.35
1	N	900	A	C5'-C4'	6.26	1.58	1.51
1	N	1175	G	N7-C5	-6.26	1.35	1.39
1	N	130	A	C2'-C1'	6.26	1.60	1.53
1	N	1416	G	C2-N3	6.26	1.37	1.32
1	N	1326	U	C5'-C4'	6.26	1.58	1.51
1	N	479	U	P-O5'	-6.26	1.53	1.59
1	N	828	U	N3-C4	6.26	1.44	1.38
1	N	411	A	C8-N7	6.25	1.35	1.31
1	N	541	G	C2-N3	6.25	1.37	1.32
1	N	1401	G	C5-C4	6.25	1.42	1.38
1	N	100	G	C5-C4	6.25	1.42	1.38
1	N	124	C	O4'-C1'	6.25	1.49	1.41
1	N	385	C	C2-N3	6.25	1.40	1.35
1	N	646	G	C5'-C4'	6.25	1.58	1.51
1	N	760	G	C2-N3	6.25	1.37	1.32
1	N	797	C	C4-C5	6.25	1.48	1.43
1	N	1447	A	C3'-O3'	6.25	1.50	1.42
1	N	1027	C	C1'-N1	6.25	1.58	1.48
1	N	1430	A	C4'-C3'	6.25	1.60	1.53
1	N	382	A	O3'-P	-6.25	1.53	1.61
1	N	668	G	C6-N1	6.25	1.44	1.39
1	N	843	U	C4'-C3'	6.25	1.60	1.53
1	N	1353	G	N1-C2	6.25	1.42	1.37
1	N	1361	G	C6-N1	6.25	1.44	1.39
1	N	914	A	C4'-C3'	6.25	1.60	1.53
1	N	1382	C	C3'-C2'	6.25	1.59	1.52
1	N	652	U	C3'-C2'	6.25	1.59	1.52
1	N	577	G	C2-N3	6.24	1.37	1.32
1	N	1405	G	N1-C2	6.24	1.42	1.37
1	N	150	U	C5-C6	-6.24	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	665	A	N1-C2	6.24	1.40	1.34
1	N	979	C	C2'-C1'	6.24	1.60	1.53
1	N	749	A	C5-C4	6.24	1.43	1.38
1	N	1185	G	P-O5'	-6.24	1.53	1.59
1	N	157	U	N3-C4	-6.24	1.32	1.38
1	N	276	G	C5'-C4'	6.24	1.58	1.51
1	N	560	A	C5-C4	6.24	1.43	1.38
1	N	922	G	O3'-P	-6.24	1.53	1.61
1	N	1131	G	C5'-C4'	6.24	1.58	1.51
1	N	1252	A	C6-N6	6.24	1.39	1.33
1	N	1339	A	C6-N1	6.24	1.40	1.35
1	N	1434	A	N9-C4	6.24	1.41	1.37
1	N	598	U	C2-N3	6.23	1.42	1.37
1	N	1182	G	C4'-C3'	6.23	1.60	1.53
1	N	759	A	P-O5'	-6.23	1.53	1.59
1	N	894	G	C2-N2	6.23	1.40	1.34
1	N	1162	C	P-O5'	-6.23	1.53	1.59
1	N	50	A	P-O5'	-6.23	1.53	1.59
1	N	51	A	P-O5'	-6.23	1.53	1.59
1	N	61	G	C2'-C1'	-6.23	1.46	1.53
1	N	786	G	N1-C2	6.23	1.42	1.37
1	N	51	A	C5-C4	6.23	1.43	1.38
1	N	1400	C	C2'-C1'	-6.23	1.46	1.53
1	N	456	A	C3'-C2'	-6.22	1.46	1.52
1	N	162	A	C8-N7	-6.22	1.27	1.31
1	N	994	A	N9-C8	-6.22	1.32	1.37
1	N	1075	U	N1-C2	6.22	1.44	1.38
1	N	1170	A	C6-N6	6.22	1.39	1.33
1	N	1534	A	N9-C4	6.22	1.41	1.37
1	N	480	U	P-O5'	-6.22	1.53	1.59
1	N	1022	A	C5-C4	6.22	1.43	1.38
1	N	641	U	C4'-C3'	6.22	1.59	1.53
1	N	747	A	N9-C4	-6.22	1.34	1.37
1	N	1054	C	C3'-C2'	6.22	1.59	1.52
1	N	1186	G	N1-C2	6.22	1.42	1.37
1	N	817	C	P-O5'	-6.22	1.53	1.59
1	N	171	A	C5'-C4'	6.22	1.58	1.51
1	N	1056	U	C5'-C4'	6.22	1.58	1.51
1	N	1096	C	C3'-O3'	6.22	1.50	1.42
1	N	1114	C	C2'-C1'	6.22	1.60	1.53
1	N	1493	A	C8-N7	-6.22	1.27	1.31
1	N	354	G	C8-N7	-6.21	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1245	C	C5'-C4'	6.21	1.58	1.51
1	N	1302	C	C2-N3	6.21	1.40	1.35
1	N	163	C	C4-C5	6.21	1.48	1.43
1	N	72	A	C6-N6	6.21	1.39	1.33
1	N	79	G	C2'-C1'	6.21	1.60	1.53
1	N	234	C	N1-C6	6.21	1.40	1.37
1	N	247	G	C2-N3	6.21	1.37	1.32
1	N	735	C	C3'-C2'	6.21	1.59	1.52
1	N	1486	G	N7-C5	-6.21	1.35	1.39
1	N	529	G	N1-C2	6.21	1.42	1.37
1	N	460	A	C2-N3	6.21	1.39	1.33
1	N	416	G	C1'-N9	6.21	1.58	1.48
1	N	547	A	C6-N1	6.21	1.39	1.35
1	N	620	C	C4-C5	6.21	1.48	1.43
1	N	906	A	C6-N1	6.21	1.39	1.35
1	N	237	G	N1-C2	6.20	1.42	1.37
1	N	909	A	C4'-C3'	6.20	1.59	1.53
1	N	1108	G	N3-C4	-6.20	1.31	1.35
1	N	1506	U	N3-C4	6.20	1.44	1.38
1	N	44	A	C6-N6	6.20	1.39	1.33
1	N	82	G	C2'-C1'	-6.20	1.46	1.53
1	N	129	A	C4'-O4'	-6.20	1.37	1.45
1	N	465	A	C8-N7	-6.20	1.27	1.31
1	N	791	G	C5'-C4'	6.20	1.58	1.51
1	N	1321	U	N3-C4	6.20	1.44	1.38
1	N	202	G	C5-C4	6.20	1.42	1.38
1	N	214	C	C4-C5	6.20	1.48	1.43
1	N	244	U	C3'-C2'	6.20	1.59	1.52
1	N	694	A	O4'-C1'	6.20	1.49	1.41
1	N	1038	C	C4-C5	-6.20	1.38	1.43
1	N	1258	G	C3'-C2'	6.20	1.59	1.52
1	N	1268	G	N7-C5	-6.20	1.35	1.39
1	N	1487	G	C5-C4	6.20	1.42	1.38
1	N	385	C	C2-O2	6.19	1.30	1.24
1	N	1025	U	C4-C5	-6.19	1.38	1.43
1	N	1142	G	C4'-C3'	6.19	1.59	1.53
1	N	1486	G	C5-C6	-6.19	1.36	1.42
1	N	17	U	C4'-C3'	6.19	1.59	1.53
1	N	95	C	C4-N4	6.19	1.39	1.33
1	N	629	A	P-O5'	-6.19	1.53	1.59
1	N	1079	G	N3-C4	6.19	1.39	1.35
1	N	115	G	C3'-C2'	6.19	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	332	G	N1-C2	6.19	1.42	1.37
1	N	1219	A	N9-C4	6.19	1.41	1.37
1	N	179	A	C6-N6	6.19	1.39	1.33
1	N	545	C	O3'-P	-6.19	1.53	1.61
1	N	1061	G	C8-N7	-6.19	1.27	1.30
1	N	1475	G	C5-C6	-6.19	1.36	1.42
1	N	661	G	C2-N2	6.19	1.40	1.34
1	N	1101	A	O4'-C1'	6.19	1.49	1.41
1	N	1172	C	C4'-O4'	-6.19	1.37	1.45
1	N	674	G	N7-C5	-6.18	1.35	1.39
1	N	1028	C	C2-N3	-6.18	1.30	1.35
1	N	236	A	C8-N7	-6.18	1.27	1.31
1	N	326	G	C2-N3	6.18	1.37	1.32
1	N	1004	A	C5-C4	-6.18	1.34	1.38
1	N	211	G	C5'-C4'	6.18	1.58	1.51
1	N	482	A	C4'-O4'	6.18	1.53	1.45
1	N	125	U	C2'-C1'	-6.18	1.46	1.53
1	N	812	G	C6-N1	6.18	1.43	1.39
1	N	1105	A	C8-N7	-6.18	1.27	1.31
1	N	1261	A	C8-N7	6.18	1.35	1.31
1	N	606	G	C2'-C1'	-6.18	1.46	1.53
1	N	962	C	P-O5'	-6.18	1.53	1.59
1	N	174	A	C2'-C1'	-6.17	1.46	1.53
1	N	926	G	C6-N1	6.17	1.43	1.39
1	N	938	A	C5-C6	-6.17	1.35	1.41
1	N	709	U	P-O5'	-6.17	1.53	1.59
1	N	853	C	N1-C6	-6.17	1.33	1.37
1	N	318	G	C5-C6	-6.17	1.36	1.42
1	N	369	G	P-O5'	-6.17	1.53	1.59
1	N	1065	U	C4'-C3'	6.17	1.59	1.53
1	N	1150	A	N1-C2	6.17	1.40	1.34
1	N	599	C	C2-N3	6.17	1.40	1.35
1	N	683	G	N7-C5	-6.17	1.35	1.39
1	N	1045	C	N3-C4	-6.16	1.29	1.33
1	N	1311	A	N7-C5	-6.16	1.35	1.39
1	N	1394	A	N3-C4	-6.16	1.31	1.34
1	N	1406	U	C1'-N1	6.16	1.57	1.48
1	N	906	A	P-O5'	-6.16	1.53	1.59
1	N	1255	G	C2-N2	6.16	1.40	1.34
1	N	327	A	C2-N3	-6.16	1.28	1.33
1	N	1198	G	C4'-O4'	-6.16	1.37	1.45
1	N	1053	G	C6-N1	6.15	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1289	A	C5'-C4'	6.15	1.58	1.51
1	N	1350	A	C6-N6	6.15	1.38	1.33
1	N	611	C	C4-C5	6.15	1.47	1.43
1	N	739	C	N1-C6	6.15	1.40	1.37
1	N	1425	U	P-O5'	-6.15	1.53	1.59
1	N	1478	U	C5-C6	6.15	1.39	1.34
1	N	1525	G	O3'-P	6.15	1.68	1.61
1	N	285	C	C5-C6	6.15	1.39	1.34
1	N	1389	C	C5-C6	-6.15	1.29	1.34
1	N	1481	U	N1-C6	6.15	1.43	1.38
1	N	993	G	O3'-P	-6.15	1.53	1.61
1	N	1155	A	N3-C4	-6.15	1.31	1.34
1	N	1167	A	N3-C4	-6.15	1.31	1.34
1	N	951	G	C2-N2	6.15	1.40	1.34
1	N	962	C	C1'-N1	6.14	1.57	1.48
1	N	31	G	N9-C8	6.14	1.42	1.37
1	N	290	C	N3-C4	6.14	1.38	1.33
1	N	499	A	C6-N6	6.14	1.38	1.33
1	N	1122	U	C3'-O3'	6.14	1.50	1.42
1	N	825	A	N7-C5	-6.14	1.35	1.39
1	N	1064	G	C5-C6	-6.14	1.36	1.42
1	N	1098	C	P-O5'	-6.14	1.53	1.59
1	N	332	G	C2-N3	6.14	1.37	1.32
1	N	1422	G	C6-N1	6.14	1.43	1.39
1	N	1437	A	P-O5'	6.14	1.65	1.59
1	N	708	C	P-O5'	-6.13	1.53	1.59
1	N	967	C	N3-C4	6.13	1.38	1.33
1	N	1524	C	N3-C4	6.13	1.38	1.33
1	N	116	A	N7-C5	-6.13	1.35	1.39
1	N	1250	A	C6-N6	6.13	1.38	1.33
1	N	133	U	C4'-C3'	-6.13	1.46	1.53
1	N	602	A	C2-N3	6.13	1.39	1.33
1	N	617	G	C5-C6	-6.13	1.36	1.42
1	N	778	G	C2-N2	6.13	1.40	1.34
1	N	894	G	N7-C5	-6.13	1.35	1.39
1	N	328	C	C4-C5	6.13	1.47	1.43
1	N	812	G	C5-C6	-6.13	1.36	1.42
1	N	1424	U	C4-O4	-6.13	1.18	1.23
1	N	377	G	N1-C2	6.13	1.42	1.37
1	N	1361	G	C8-N7	6.13	1.34	1.30
1	N	696	A	N9-C4	6.12	1.41	1.37
1	N	1037	C	C4-N4	6.12	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	642	A	C6-N1	6.12	1.39	1.35
1	N	957	U	N3-C4	6.12	1.44	1.38
1	N	607	A	C1'-N9	6.12	1.57	1.48
1	N	949	A	N9-C4	-6.12	1.34	1.37
1	N	981	U	C1'-N1	6.12	1.57	1.48
1	N	1241	G	C5-C4	6.12	1.42	1.38
1	N	561	U	C2'-C1'	-6.12	1.46	1.53
1	N	1065	U	N3-C4	6.12	1.44	1.38
1	N	295	C	C2-N3	6.12	1.40	1.35
1	N	486	U	N3-C4	6.12	1.44	1.38
1	N	1139	G	N9-C4	-6.12	1.33	1.38
1	N	8	A	C6-N6	6.12	1.38	1.33
1	N	338	A	C5-C6	-6.12	1.35	1.41
1	N	522	C	C4-N4	6.12	1.39	1.33
1	N	96	U	C4'-O4'	-6.12	1.37	1.45
1	N	110	C	C2-N3	6.12	1.40	1.35
1	N	159	G	C2-N3	6.12	1.37	1.32
1	N	584	G	N1-C2	6.12	1.42	1.37
1	N	1141	C	C4-N4	6.12	1.39	1.33
1	N	728	A	C3'-C2'	-6.11	1.46	1.52
1	N	941	G	C5-C6	-6.11	1.36	1.42
1	N	249	U	C3'-O3'	6.11	1.50	1.42
1	N	662	U	N1-C6	-6.11	1.32	1.38
1	N	930	C	C4-C5	-6.11	1.38	1.43
1	N	1010	U	C5'-C4'	6.11	1.58	1.51
1	N	1064	G	N9-C4	-6.11	1.33	1.38
1	N	16	A	C5-C4	6.11	1.43	1.38
1	N	538	G	C5-C4	6.11	1.42	1.38
1	N	1469	C	N1-C6	6.11	1.40	1.37
1	N	11	G	C2-N3	6.11	1.37	1.32
1	N	151	A	C4'-C3'	-6.11	1.46	1.53
1	N	526	C	C4'-C3'	6.11	1.59	1.53
1	N	738	C	C4'-C3'	-6.11	1.46	1.53
1	N	1002	G	N3-C4	6.11	1.39	1.35
1	N	1297	G	C8-N7	6.11	1.34	1.30
1	N	1411	C	N3-C4	6.11	1.38	1.33
1	N	91	U	P-O5'	-6.11	1.53	1.59
1	N	218	U	C2'-C1'	-6.11	1.46	1.53
1	N	356	A	C5'-C4'	6.11	1.58	1.51
1	N	418	C	C3'-C2'	6.11	1.59	1.52
1	N	680	C	O3'-P	-6.11	1.53	1.61
1	N	719	C	C4-N4	6.11	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	776	G	O3'-P	-6.11	1.53	1.61
1	N	511	C	C4-N4	6.10	1.39	1.33
1	N	889	A	C2-N3	6.10	1.39	1.33
1	N	362	G	P-O5'	-6.10	1.53	1.59
1	N	760	G	N7-C5	-6.10	1.35	1.39
1	N	960	U	C3'-C2'	6.10	1.59	1.52
1	N	843	U	C2'-C1'	6.10	1.60	1.53
1	N	108	G	N9-C8	-6.10	1.33	1.37
1	N	509	A	N7-C5	-6.10	1.35	1.39
1	N	934	C	C5-C6	-6.10	1.29	1.34
1	N	509	A	P-O5'	-6.10	1.53	1.59
1	N	629	A	N7-C5	-6.10	1.35	1.39
1	N	705	G	N7-C5	-6.10	1.35	1.39
1	N	724	G	C2-N3	6.10	1.37	1.32
1	N	1045	C	O3'-P	-6.10	1.53	1.61
1	N	1255	G	C8-N7	-6.10	1.27	1.30
1	N	383	A	N3-C4	6.10	1.38	1.34
1	N	397	A	C6-N6	6.09	1.38	1.33
1	N	617	G	C8-N7	-6.09	1.27	1.30
1	N	776	G	C6-N1	6.09	1.43	1.39
1	N	1247	U	N3-C4	6.09	1.44	1.38
1	N	972	C	C2-O2	6.09	1.29	1.24
1	N	119	A	C6-N6	6.09	1.38	1.33
1	N	320	A	N7-C5	-6.09	1.35	1.39
1	N	380	G	N1-C2	6.09	1.42	1.37
1	N	1190	G	C2-N3	6.09	1.37	1.32
1	N	142	G	N9-C4	6.09	1.42	1.38
1	N	197	A	C3'-O3'	6.09	1.50	1.42
1	N	883	C	C3'-O3'	6.09	1.50	1.42
1	N	1193	G	C4'-O4'	-6.09	1.37	1.45
1	N	1261	A	C6-N1	6.09	1.39	1.35
1	N	1036	A	P-O5'	-6.09	1.53	1.59
1	N	1057	G	C5'-C4'	6.09	1.58	1.51
1	N	1489	G	C5-C4	6.09	1.42	1.38
1	N	328	C	C2'-C1'	6.08	1.60	1.53
1	N	468	A	N7-C5	-6.08	1.35	1.39
1	N	507	C	C4-N4	6.08	1.39	1.33
1	N	855	U	C2-N3	-6.08	1.33	1.37
1	N	968	A	C2'-C1'	-6.08	1.46	1.53
1	N	1333	A	N7-C5	-6.08	1.35	1.39
1	N	39	G	N7-C5	6.08	1.42	1.39
1	N	133	U	C2'-C1'	-6.08	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	333	U	P-O5'	-6.08	1.53	1.59
1	N	757	U	C4-C5	6.08	1.49	1.43
1	N	773	G	C2-N3	6.08	1.37	1.32
1	N	49	U	N1-C6	-6.08	1.32	1.38
1	N	444	G	N1-C2	6.08	1.42	1.37
1	N	518	C	P-O5'	-6.08	1.53	1.59
1	N	579	A	C5-C6	-6.08	1.35	1.41
1	N	593	U	P-O5'	-6.08	1.53	1.59
1	N	705	G	C2-N2	6.08	1.40	1.34
1	N	1260	G	C5-C6	-6.08	1.36	1.42
1	N	1124	G	N9-C4	6.08	1.42	1.38
1	N	205	A	O4'-C1'	6.08	1.49	1.41
1	N	283	U	C1'-N1	6.08	1.57	1.48
1	N	815	A	C4'-C3'	6.08	1.59	1.53
1	N	1163	A	C8-N7	-6.08	1.27	1.31
1	N	77	A	C2-N3	6.07	1.39	1.33
1	N	303	A	N3-C4	-6.07	1.31	1.34
1	N	1133	G	C2-N2	6.07	1.40	1.34
1	N	1317	C	C4-C5	-6.07	1.38	1.43
1	N	58	C	C2-N3	-6.07	1.30	1.35
1	N	49	U	C1'-N1	6.07	1.57	1.48
1	N	310	G	C2'-C1'	-6.07	1.46	1.53
1	N	405	U	N1-C2	6.07	1.44	1.38
1	N	554	A	N1-C2	-6.07	1.28	1.34
1	N	1171	A	N9-C4	6.07	1.41	1.37
1	N	496	A	C8-N7	-6.07	1.27	1.31
1	N	544	G	C8-N7	-6.07	1.27	1.30
1	N	1269	A	C3'-O3'	6.07	1.50	1.42
1	N	198	G	N3-C4	-6.07	1.31	1.35
1	N	704	A	C1'-N9	6.07	1.57	1.48
1	N	849	G	C6-N1	6.07	1.43	1.39
1	N	1007	U	C4-O4	-6.07	1.18	1.23
1	N	1493	A	C5-C4	-6.07	1.34	1.38
1	N	332	G	N3-C4	6.06	1.39	1.35
1	N	26	A	N7-C5	-6.06	1.35	1.39
1	N	143	A	C4'-C3'	-6.06	1.46	1.53
1	N	438	U	O3'-P	-6.06	1.53	1.61
1	N	56	U	N3-C4	6.06	1.44	1.38
1	N	460	A	C5'-C4'	6.06	1.58	1.51
1	N	1488	G	C2-N2	-6.06	1.28	1.34
1	N	342	C	C5'-C4'	6.06	1.58	1.51
1	N	733	G	C2-N3	6.06	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	833	G	C8-N7	-6.06	1.27	1.30
1	N	867	G	C4'-C3'	-6.06	1.46	1.53
1	N	584	G	C3'-O3'	6.06	1.50	1.42
1	N	681	A	N3-C4	6.06	1.38	1.34
1	N	844	G	N1-C2	6.06	1.42	1.37
1	N	1189	U	C4'-O4'	-6.06	1.37	1.45
1	N	1218	C	C5-C6	-6.06	1.29	1.34
1	N	1319	A	C5'-C4'	6.06	1.58	1.51
1	N	106	C	C2-N3	6.06	1.40	1.35
1	N	664	G	N1-C2	6.06	1.42	1.37
1	N	1015	G	C6-N1	6.05	1.43	1.39
1	N	1154	G	N9-C8	-6.05	1.33	1.37
1	N	585	G	N3-C4	-6.05	1.31	1.35
1	N	945	G	N9-C4	-6.05	1.33	1.38
1	N	1292	G	C8-N7	6.05	1.34	1.30
1	N	11	G	N9-C8	-6.05	1.33	1.37
1	N	21	G	C2-N3	6.05	1.37	1.32
1	N	397	A	N7-C5	-6.05	1.35	1.39
1	N	426	U	C4-C5	6.05	1.49	1.43
1	N	542	G	C5'-C4'	6.05	1.58	1.51
1	N	164	G	N9-C4	6.05	1.42	1.38
1	N	205	A	O3'-P	-6.05	1.53	1.61
1	N	583	A	N9-C4	6.05	1.41	1.37
1	N	926	G	N9-C4	6.05	1.42	1.38
1	N	800	G	C2-N3	6.05	1.37	1.32
1	N	898	G	C4'-C3'	-6.05	1.46	1.53
1	N	1262	C	N1-C6	-6.05	1.33	1.37
1	N	1310	G	N3-C4	-6.05	1.31	1.35
1	N	1493	A	C5'-C4'	6.05	1.58	1.51
1	N	272	C	C5-C6	6.05	1.39	1.34
1	N	1120	C	N3-C4	6.05	1.38	1.33
1	N	1276	G	C6-N1	6.05	1.43	1.39
1	N	75	G	N1-C2	6.04	1.42	1.37
1	N	185	U	N1-C6	6.04	1.43	1.38
1	N	400	C	C4-C5	6.04	1.47	1.43
1	N	668	G	N7-C5	-6.04	1.35	1.39
1	N	1170	A	C8-N7	-6.04	1.27	1.31
1	N	1468	A	N7-C5	-6.04	1.35	1.39
1	N	976	G	C5-C4	6.04	1.42	1.38
1	N	983	A	C6-N1	6.04	1.39	1.35
1	N	1251	A	C2-N3	6.04	1.39	1.33
1	N	1260	G	N9-C4	-6.04	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1366	C	C2-N3	6.04	1.40	1.35
1	N	579	A	C8-N7	-6.04	1.27	1.31
1	N	26	A	C2-N3	6.04	1.39	1.33
1	N	892	A	N9-C4	-6.04	1.34	1.37
1	N	114	U	O4'-C1'	6.04	1.49	1.41
1	N	897	C	C5-C6	-6.04	1.29	1.34
1	N	1164	G	C2-N3	6.04	1.37	1.32
1	N	1446	A	P-O5'	6.04	1.65	1.59
1	N	1488	G	N1-C2	6.04	1.42	1.37
1	N	455	G	C5-C6	-6.03	1.36	1.42
1	N	799	G	C8-N7	-6.03	1.27	1.30
1	N	830	G	N7-C5	-6.03	1.35	1.39
1	N	1064	G	C6-N1	6.03	1.43	1.39
1	N	379	C	C2-O2	6.03	1.29	1.24
1	N	1224	U	C4'-C3'	6.03	1.59	1.53
1	N	250	A	C3'-C2'	6.03	1.59	1.52
1	N	1040	U	N1-C2	6.03	1.44	1.38
1	N	1279	G	N9-C4	-6.03	1.33	1.38
1	N	1506	U	N1-C6	-6.03	1.32	1.38
1	N	677	U	C2-N3	6.03	1.42	1.37
1	N	949	A	C5'-C4'	6.03	1.58	1.51
1	N	255	G	N1-C2	6.03	1.42	1.37
1	N	620	C	N1-C2	6.03	1.46	1.40
1	N	1142	G	N9-C8	6.02	1.42	1.37
1	N	558	G	O3'-P	-6.02	1.53	1.61
1	N	656	G	P-O5'	-6.02	1.53	1.59
1	N	777	A	C6-N1	-6.02	1.31	1.35
1	N	43	C	N1-C2	-6.02	1.34	1.40
1	N	163	C	N1-C6	-6.02	1.33	1.37
1	N	258	G	C5-C6	-6.02	1.36	1.42
1	N	628	G	C3'-C2'	6.02	1.59	1.52
1	N	1501	C	N1-C6	6.02	1.40	1.37
1	N	997	U	P-O5'	-6.02	1.53	1.59
1	N	1375	A	P-O5'	-6.02	1.53	1.59
1	N	319	G	C8-N7	6.02	1.34	1.30
1	N	608	A	C6-N1	-6.02	1.31	1.35
1	N	987	G	O4'-C1'	6.02	1.49	1.41
1	N	413	G	P-O5'	-6.01	1.53	1.59
1	N	785	G	N7-C5	-6.01	1.35	1.39
1	N	1283	U	P-O5'	-6.01	1.53	1.59
1	N	711	G	C5'-C4'	6.01	1.58	1.51
1	N	1066	C	C2-N3	-6.01	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1183	U	C1'-N1	6.01	1.57	1.48
1	N	201	G	C5-C4	6.01	1.42	1.38
1	N	299	G	C6-N1	6.01	1.43	1.39
1	N	450	G	C2'-C1'	-6.01	1.46	1.53
1	N	1007	U	N3-C4	6.01	1.43	1.38
1	N	1278	G	O3'-P	-6.01	1.53	1.61
1	N	1414	U	C2-N3	6.01	1.42	1.37
1	N	1429	A	N3-C4	-6.01	1.31	1.34
1	N	205	A	C6-N1	6.01	1.39	1.35
1	N	771	G	C2-N2	6.01	1.40	1.34
1	N	842	U	C4-C5	6.01	1.49	1.43
1	N	536	C	C5'-C4'	6.01	1.58	1.51
1	N	927	G	C6-N1	6.00	1.43	1.39
1	N	66	A	C5'-C4'	6.00	1.58	1.51
1	N	350	G	C2-N3	6.00	1.37	1.32
1	N	557	G	N1-C2	6.00	1.42	1.37
1	N	612	C	N1-C6	-6.00	1.33	1.37
1	N	1429	A	C4'-O4'	-6.00	1.37	1.45
1	N	970	C	C2-N3	6.00	1.40	1.35
1	N	1017	U	C5'-C4'	6.00	1.58	1.51
1	N	1179	A	C2-N3	6.00	1.39	1.33
1	N	76	G	C6-N1	6.00	1.43	1.39
1	N	137	U	C1'-N1	6.00	1.57	1.48
1	N	413	G	C8-N7	-6.00	1.27	1.30
1	N	1156	G	C8-N7	-6.00	1.27	1.30
1	N	188	C	C5'-C4'	6.00	1.58	1.51
1	N	598	U	N1-C6	6.00	1.43	1.38
1	N	1269	A	C4'-C3'	-6.00	1.46	1.52
1	N	5	U	N3-C4	6.00	1.43	1.38
1	N	52	C	C2-O2	6.00	1.29	1.24
1	N	266	G	N9-C8	6.00	1.42	1.37
1	N	446	G	C5-C4	6.00	1.42	1.38
1	N	1059	C	C5'-C4'	5.99	1.58	1.51
1	N	1399	C	C4'-C3'	5.99	1.59	1.53
1	N	1475	G	C5-C4	-5.99	1.34	1.38
1	N	30	U	O4'-C1'	5.99	1.49	1.41
1	N	159	G	C2'-C1'	-5.99	1.46	1.53
1	N	1323	G	C2-N2	5.99	1.40	1.34
1	N	656	G	C1'-N9	5.99	1.57	1.48
1	N	990	C	C4-N4	5.99	1.39	1.33
1	N	1349	A	C4'-C3'	-5.99	1.46	1.52
1	N	1365	G	C8-N7	5.99	1.34	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	47	C	C4-C5	5.99	1.47	1.43
1	N	1450	U	C2-N3	5.99	1.42	1.37
1	N	982	U	N1-C6	5.98	1.43	1.38
1	N	1437	A	C4'-O4'	5.98	1.53	1.45
1	N	470	C	C3'-C2'	-5.98	1.46	1.52
1	N	984	C	C5'-C4'	5.98	1.58	1.51
1	N	962	C	C4'-C3'	-5.98	1.46	1.52
1	N	1096	C	N1-C6	-5.98	1.33	1.37
1	N	1153	G	C5'-C4'	5.98	1.58	1.51
1	N	1187	G	C5-C4	5.98	1.42	1.38
1	N	1216	A	N7-C5	-5.98	1.35	1.39
1	N	65	A	N9-C8	-5.98	1.32	1.37
1	N	1184	G	C8-N7	5.98	1.34	1.30
1	N	462	G	C2-N3	5.98	1.37	1.32
1	N	1248	A	C6-N1	5.98	1.39	1.35
1	N	1392	G	C2-N2	5.98	1.40	1.34
1	N	60	A	N7-C5	-5.97	1.35	1.39
1	N	573	A	O3'-P	-5.97	1.53	1.61
1	N	775	G	C5'-C4'	5.97	1.58	1.51
1	N	1036	A	C2-N3	5.97	1.39	1.33
1	N	1462	C	N1-C6	5.97	1.40	1.37
1	N	97	G	O3'-P	-5.97	1.53	1.61
1	N	228	A	C5-C4	5.97	1.43	1.38
1	N	337	G	C8-N7	-5.97	1.27	1.30
1	N	711	G	C8-N7	-5.97	1.27	1.30
1	N	1059	C	N1-C2	-5.97	1.34	1.40
1	N	1480	A	C6-N6	5.97	1.38	1.33
1	N	328	C	C2-N3	-5.97	1.30	1.35
1	N	1454	G	N9-C4	-5.97	1.33	1.38
1	N	262	A	C8-N7	-5.97	1.27	1.31
1	N	1395	C	N3-C4	5.97	1.38	1.33
1	N	462	G	C8-N7	-5.97	1.27	1.30
1	N	536	C	C5-C6	5.97	1.39	1.34
1	N	584	G	C2-N2	5.97	1.40	1.34
1	N	1080	A	C3'-C2'	5.97	1.59	1.52
1	N	1173	U	C4-C5	-5.97	1.38	1.43
1	N	1047	G	N9-C8	5.96	1.42	1.37
1	N	538	G	N9-C8	5.96	1.42	1.37
1	N	812	G	C4'-C3'	-5.96	1.46	1.52
1	N	838	G	N9-C4	-5.96	1.33	1.38
1	N	966	G	N7-C5	-5.96	1.35	1.39
1	N	876	C	O3'-P	-5.96	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1112	C	C4'-C3'	5.96	1.59	1.53
1	N	1276	G	N3-C4	5.96	1.39	1.35
1	N	1435	G	N9-C8	5.96	1.42	1.37
1	N	144	G	N3-C4	-5.96	1.31	1.35
1	N	481	G	C5'-C4'	5.96	1.58	1.51
1	N	1126	U	N3-C4	5.96	1.43	1.38
1	N	119	A	C4'-C3'	5.96	1.59	1.53
1	N	407	U	P-O5'	-5.95	1.53	1.59
1	N	749	A	N7-C5	5.95	1.42	1.39
1	N	1160	G	C5-C4	-5.95	1.34	1.38
1	N	112	G	C2-N3	-5.95	1.27	1.32
1	N	419	C	C4'-C3'	-5.95	1.46	1.52
1	N	888	G	C8-N7	5.95	1.34	1.30
1	N	977	A	C5'-C4'	5.95	1.58	1.51
1	N	833	G	N1-C2	5.95	1.42	1.37
1	N	858	G	C2-N2	5.95	1.40	1.34
1	N	1094	G	C2'-C1'	-5.95	1.46	1.53
1	N	1299	A	C5-C4	5.95	1.43	1.38
1	N	1292	G	C2-N3	5.95	1.37	1.32
1	N	1453	G	P-O5'	-5.95	1.53	1.59
1	N	714	G	O4'-C1'	-5.94	1.33	1.41
1	N	807	A	C6-N1	5.94	1.39	1.35
1	N	419	C	C5-C6	-5.94	1.29	1.34
1	N	491	G	C5-C6	-5.94	1.36	1.42
1	N	533	A	C2-N3	5.94	1.38	1.33
1	N	1306	A	C4'-O4'	5.94	1.53	1.45
1	N	687	A	N9-C4	-5.94	1.34	1.37
1	N	959	A	C4'-C3'	5.94	1.59	1.53
1	N	1085	U	C5'-C4'	5.94	1.58	1.51
1	N	1313	U	C5'-C4'	5.94	1.58	1.51
1	N	35	G	C3'-C2'	-5.94	1.46	1.52
1	N	908	A	C2-N3	-5.94	1.28	1.33
1	N	1447	A	N7-C5	-5.94	1.35	1.39
1	N	273	U	C4-C5	5.93	1.48	1.43
1	N	578	C	N1-C6	5.93	1.40	1.37
1	N	1286	U	N3-C4	5.93	1.43	1.38
1	N	143	A	C6-N1	5.93	1.39	1.35
1	N	1347	G	N7-C5	-5.93	1.35	1.39
1	N	1392	G	C5'-C4'	5.93	1.58	1.51
1	N	1507	A	C5-C4	5.93	1.43	1.38
1	N	502	A	P-O5'	5.93	1.65	1.59
1	N	1315	U	N1-C6	5.93	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	434	U	C2-N3	5.93	1.41	1.37
1	N	1315	U	C2-N3	5.93	1.42	1.37
1	N	227	G	C5-C4	5.93	1.42	1.38
1	N	453	G	C5-C4	5.93	1.42	1.38
1	N	807	A	C2'-C1'	-5.93	1.46	1.53
1	N	1424	U	N3-C4	5.93	1.43	1.38
1	N	1080	A	C6-N6	5.93	1.38	1.33
1	N	392	C	P-O5'	5.92	1.65	1.59
1	N	1182	G	N9-C4	-5.92	1.33	1.38
1	N	147	G	C6-N1	5.92	1.43	1.39
1	N	679	C	N1-C6	5.92	1.40	1.37
1	N	801	U	C2'-C1'	-5.92	1.46	1.53
1	N	588	G	N1-C2	5.92	1.42	1.37
1	N	750	C	C2-O2	5.92	1.29	1.24
1	N	1278	G	C4'-C3'	5.92	1.59	1.53
1	N	1290	G	N9-C8	5.92	1.42	1.37
1	N	113	G	N9-C4	-5.92	1.33	1.38
1	N	384	G	C5-C4	5.92	1.42	1.38
1	N	775	G	C5-C6	-5.92	1.36	1.42
1	N	28	A	N9-C8	-5.92	1.33	1.37
1	N	122	G	N9-C8	5.92	1.42	1.37
1	N	801	U	C4-C5	5.92	1.48	1.43
1	N	1088	G	C8-N7	-5.92	1.27	1.30
1	N	1252	A	C5-C4	5.92	1.42	1.38
1	N	786	G	C6-N1	5.91	1.43	1.39
1	N	945	G	C5-C6	-5.91	1.36	1.42
1	N	483	C	N1-C6	-5.91	1.33	1.37
1	N	26	A	C8-N7	-5.91	1.27	1.31
1	N	422	C	C5'-C4'	5.91	1.58	1.51
1	N	919	A	C3'-O3'	5.91	1.50	1.42
1	N	1039	G	N9-C8	5.91	1.42	1.37
1	N	1279	G	C3'-O3'	5.91	1.50	1.42
1	N	159	G	N9-C8	-5.91	1.33	1.37
1	N	1186	G	C5-C4	-5.91	1.34	1.38
1	N	7	A	C6-N1	5.91	1.39	1.35
1	N	204	G	C5'-C4'	5.91	1.58	1.51
1	N	302	G	N3-C4	-5.91	1.31	1.35
1	N	427	U	O3'-P	-5.91	1.54	1.61
1	N	679	C	N1-C2	-5.91	1.34	1.40
1	N	1004	A	C3'-C2'	5.91	1.59	1.52
1	N	1065	U	C3'-C2'	5.91	1.59	1.52
1	N	1515	G	C6-N1	5.91	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	936	C	P-O5'	-5.90	1.53	1.59
1	N	773	G	N7-C5	-5.90	1.35	1.39
1	N	818	G	C5'-C4'	5.90	1.58	1.51
1	N	1077	G	C2-N3	5.90	1.37	1.32
1	N	264	C	O3'-P	-5.90	1.54	1.61
1	N	61	G	C6-N1	5.90	1.43	1.39
1	N	36	C	O4'-C1'	5.90	1.49	1.41
1	N	403	C	N1-C6	5.90	1.40	1.37
1	N	1051	C	C4'-C3'	-5.90	1.46	1.52
1	N	110	C	C4'-C3'	5.90	1.59	1.53
1	N	724	G	C5-C6	-5.90	1.36	1.42
1	N	1425	U	C2-N3	5.90	1.41	1.37
1	N	94	G	C2-N2	5.89	1.40	1.34
1	N	105	G	P-O5'	-5.89	1.53	1.59
1	N	221	C	N1-C6	-5.89	1.33	1.37
1	N	259	G	N3-C4	-5.89	1.31	1.35
1	N	503	C	C1'-N1	5.89	1.57	1.48
1	N	730	G	C5-C6	-5.89	1.36	1.42
1	N	792	A	N9-C4	5.89	1.41	1.37
1	N	800	G	C5'-C4'	5.89	1.58	1.51
1	N	234	C	C4-C5	-5.89	1.38	1.43
1	N	538	G	N9-C4	-5.89	1.33	1.38
1	N	574	A	C2'-C1'	-5.89	1.46	1.53
1	N	1029	U	N1-C2	5.89	1.43	1.38
1	N	1340	A	C4'-C3'	5.89	1.59	1.53
1	N	580	C	C4-N4	5.89	1.39	1.33
1	N	314	C	C4'-C3'	5.89	1.59	1.53
1	N	1232	U	N3-C4	5.89	1.43	1.38
1	N	1240	U	C2-N3	5.89	1.41	1.37
1	N	1459	G	N9-C8	5.89	1.42	1.37
1	N	1366	C	O3'-P	-5.88	1.54	1.61
1	N	942	G	N7-C5	-5.88	1.35	1.39
1	N	695	A	C2-N3	-5.88	1.28	1.33
1	N	761	G	C6-O6	5.88	1.29	1.24
1	N	192	A	P-O5'	-5.88	1.53	1.59
1	N	874	G	N3-C4	5.88	1.39	1.35
1	N	679	C	C3'-O3'	5.88	1.50	1.42
1	N	1253	G	N9-C4	5.88	1.42	1.38
1	N	292	G	O3'-P	-5.88	1.54	1.61
1	N	1469	C	O3'-P	-5.88	1.54	1.61
1	N	1034	G	N7-C5	-5.87	1.35	1.39
1	N	1119	C	N1-C2	5.87	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	458	U	N3-C4	5.87	1.43	1.38
1	N	427	U	C4'-C3'	5.87	1.59	1.53
1	N	637	C	C2-N3	5.87	1.40	1.35
1	N	1261	A	C6-N6	5.87	1.38	1.33
1	N	16	A	C6-N6	5.87	1.38	1.33
1	N	466	A	N9-C8	-5.87	1.33	1.37
1	N	1327	C	P-O5'	-5.87	1.53	1.59
1	N	1489	G	C5'-C4'	5.87	1.58	1.51
1	N	442	G	C2'-O2'	5.87	1.49	1.41
1	N	799	G	C2-N2	5.87	1.40	1.34
1	N	1097	C	C2'-C1'	-5.87	1.46	1.53
1	N	1240	U	C1'-N1	5.87	1.57	1.48
1	N	542	G	C5-C6	-5.87	1.36	1.42
1	N	931	C	C2-O2	-5.87	1.19	1.24
1	N	937	A	P-O5'	-5.87	1.53	1.59
1	N	978	A	N9-C4	5.87	1.41	1.37
1	N	36	C	P-O5'	-5.86	1.53	1.59
1	N	225	C	C4'-C3'	5.86	1.59	1.53
1	N	574	A	C4'-O4'	5.86	1.53	1.45
1	N	1241	G	C5'-C4'	5.86	1.58	1.51
1	N	407	U	N1-C6	5.86	1.43	1.38
1	N	841	C	C3'-C2'	-5.86	1.46	1.52
1	N	1481	U	C5-C6	-5.86	1.28	1.34
1	N	1050	G	N9-C4	5.86	1.42	1.38
1	N	1384	C	C4'-C3'	-5.86	1.46	1.52
1	N	1474	U	O4'-C1'	5.86	1.49	1.41
1	N	246	A	C2'-C1'	-5.86	1.47	1.53
1	N	468	A	C8-N7	-5.86	1.27	1.31
1	N	297	G	P-O5'	-5.86	1.53	1.59
1	N	627	G	N3-C4	-5.86	1.31	1.35
1	N	1040	U	C2'-C1'	-5.86	1.47	1.53
1	N	310	G	C5-C4	-5.86	1.34	1.38
1	N	925	G	N3-C4	5.86	1.39	1.35
1	N	1057	G	C8-N7	-5.86	1.27	1.30
1	N	1123	U	C5-C6	5.86	1.39	1.34
1	N	43	C	C5'-C4'	5.85	1.58	1.51
1	N	528	C	C5'-C4'	5.85	1.58	1.51
1	N	863	U	C4-C5	5.85	1.48	1.43
1	N	1077	G	N3-C4	5.85	1.39	1.35
1	N	1195	C	C2-N3	5.85	1.40	1.35
1	N	1314	C	N3-C4	-5.85	1.29	1.33
1	N	1320	C	C4-N4	5.85	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1425	U	C4-O4	5.85	1.28	1.23
1	N	53	A	C3'-C2'	5.85	1.59	1.52
1	N	348	G	O3'-P	-5.85	1.54	1.61
1	N	427	U	C2-N3	5.85	1.41	1.37
1	N	721	G	C6-N1	5.85	1.43	1.39
1	N	857	C	C5-C6	-5.85	1.29	1.34
1	N	462	G	N9-C8	5.85	1.42	1.37
1	N	115	G	C6-N1	5.84	1.43	1.39
1	N	277	C	C4'-C3'	5.84	1.59	1.53
1	N	906	A	O3'-P	-5.84	1.54	1.61
1	N	916	U	N3-C4	5.84	1.43	1.38
1	N	1025	U	C2-N3	5.84	1.41	1.37
1	N	1502	A	C6-N6	5.84	1.38	1.33
1	N	440	C	C4-N4	5.84	1.39	1.33
1	N	481	G	C6-N1	5.84	1.43	1.39
1	N	1359	C	C4-N4	-5.84	1.28	1.33
1	N	301	G	C2'-C1'	-5.84	1.47	1.53
1	N	931	C	C2'-C1'	-5.84	1.47	1.53
1	N	942	G	N9-C4	-5.84	1.33	1.38
1	N	1274	A	C6-N1	-5.84	1.31	1.35
1	N	131	A	N7-C5	-5.84	1.35	1.39
1	N	272	C	N3-C4	5.84	1.38	1.33
1	N	869	G	N3-C4	5.84	1.39	1.35
1	N	957	U	N1-C6	5.84	1.43	1.38
1	N	1045	C	C4-N4	5.84	1.39	1.33
1	N	1236	A	C5'-C4'	5.84	1.58	1.51
1	N	29	U	C2-N3	5.84	1.41	1.37
1	N	478	A	N9-C8	5.84	1.42	1.37
1	N	1175	G	C8-N7	-5.84	1.27	1.30
1	N	740	U	P-O5'	-5.84	1.53	1.59
1	N	793	U	C4-O4	5.84	1.28	1.23
1	N	1026	G	C2-N2	5.84	1.40	1.34
1	N	1103	C	N1-C2	-5.83	1.34	1.40
1	N	1182	G	C5-C6	5.83	1.48	1.42
1	N	374	A	C2'-C1'	-5.83	1.47	1.53
1	N	517	G	C2'-C1'	-5.83	1.47	1.53
1	N	872	A	C6-N1	5.83	1.39	1.35
1	N	959	A	C5'-C4'	5.83	1.58	1.51
1	N	1378	C	C1'-N1	5.83	1.57	1.48
1	N	7	A	C6-N6	5.83	1.38	1.33
1	N	964	A	C6-N1	5.83	1.39	1.35
1	N	1180	A	O4'-C1'	-5.83	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1529	G	O3'-P	-5.83	1.54	1.61
1	N	62	U	P-O5'	-5.83	1.53	1.59
1	N	879	C	C4-C5	-5.83	1.38	1.43
1	N	340	U	N3-C4	5.83	1.43	1.38
1	N	455	G	N9-C4	-5.83	1.33	1.38
1	N	859	G	C2'-C1'	5.83	1.59	1.53
1	N	983	A	C5'-C4'	5.83	1.58	1.51
1	N	1364	U	C4-O4	5.83	1.28	1.23
1	N	1529	G	P-O5'	-5.83	1.53	1.59
1	N	479	U	C3'-C2'	5.83	1.59	1.52
1	N	731	G	C2'-C1'	-5.83	1.47	1.53
1	N	1383	C	C4-N4	5.83	1.39	1.33
1	N	1505	G	C3'-O3'	5.83	1.50	1.42
1	N	653	U	N3-C4	5.83	1.43	1.38
1	N	831	A	C4'-C3'	5.83	1.59	1.53
1	N	947	G	N9-C8	5.83	1.42	1.37
1	N	1003	G	C6-N1	5.83	1.43	1.39
1	N	1040	U	N3-C4	5.83	1.43	1.38
1	N	1081	A	C6-N6	-5.83	1.29	1.33
1	N	1138	G	C6-O6	5.83	1.29	1.24
1	N	706	A	N1-C2	5.82	1.39	1.34
1	N	122	G	N3-C4	5.82	1.39	1.35
1	N	643	C	N3-C4	5.82	1.38	1.33
1	N	789	U	C3'-O3'	5.82	1.50	1.42
1	N	1084	G	N9-C4	-5.82	1.33	1.38
1	N	484	G	N1-C2	5.82	1.42	1.37
1	N	656	G	C8-N7	5.82	1.34	1.30
1	N	1014	A	C3'-O3'	5.82	1.50	1.42
1	N	259	G	C2-N3	5.82	1.37	1.32
1	N	287	U	C3'-C2'	-5.82	1.46	1.52
1	N	321	A	C8-N7	-5.82	1.27	1.31
1	N	1045	C	C2-N3	5.82	1.40	1.35
1	N	1074	G	C2'-C1'	-5.82	1.47	1.53
1	N	1290	G	O3'-P	-5.82	1.54	1.61
1	N	546	A	N9-C4	-5.82	1.34	1.37
1	N	379	C	C2'-C1'	-5.81	1.47	1.53
1	N	747	A	C5-C4	-5.81	1.34	1.38
1	N	828	U	C2-N3	-5.81	1.33	1.37
1	N	1042	A	N3-C4	-5.81	1.31	1.34
1	N	1256	A	O3'-P	-5.81	1.54	1.61
1	N	250	A	N1-C2	5.81	1.39	1.34
1	N	1132	C	C3'-O3'	5.81	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	27	G	C8-N7	5.81	1.34	1.30
1	N	448	A	C6-N1	5.81	1.39	1.35
1	N	781	A	P-O5'	-5.81	1.53	1.59
1	N	782	A	N9-C8	5.81	1.42	1.37
1	N	867	G	P-O5'	-5.81	1.53	1.59
1	N	1394	A	C5-C4	5.81	1.42	1.38
1	N	1524	C	C5'-C4'	5.81	1.58	1.51
1	N	479	U	C4'-O4'	-5.81	1.38	1.45
1	N	1151	A	P-O5'	-5.81	1.53	1.59
1	N	236	A	P-O5'	-5.80	1.53	1.59
1	N	238	A	N3-C4	5.80	1.38	1.34
1	N	635	A	C6-N6	5.80	1.38	1.33
1	N	167	A	N3-C4	-5.80	1.31	1.34
1	N	1087	G	N3-C4	5.80	1.39	1.35
1	N	1104	G	N1-C2	5.80	1.42	1.37
1	N	1458	G	C6-O6	5.80	1.29	1.24
1	N	1501	C	C4'-C3'	-5.80	1.46	1.52
1	N	187	G	N1-C2	5.80	1.42	1.37
1	N	328	C	C5-C6	5.80	1.39	1.34
1	N	1432	G	C6-N1	5.80	1.43	1.39
1	N	1324	A	O3'-P	-5.80	1.54	1.61
1	N	169	C	C1'-N1	5.80	1.57	1.48
1	N	447	G	N7-C5	-5.80	1.35	1.39
1	N	867	G	C8-N7	5.80	1.34	1.30
1	N	639	G	C5-C6	5.79	1.48	1.42
1	N	1257	A	O4'-C1'	5.79	1.49	1.41
1	N	111	G	N9-C8	-5.79	1.33	1.37
1	N	382	A	N9-C4	-5.79	1.34	1.37
1	N	713	G	C2-N3	5.79	1.37	1.32
1	N	41	G	N9-C8	-5.79	1.33	1.37
1	N	872	A	C6-N6	5.79	1.38	1.33
1	N	975	A	C5'-C4'	5.79	1.58	1.51
1	N	1334	G	C6-N1	5.79	1.43	1.39
1	N	819	A	N9-C8	5.79	1.42	1.37
1	N	1350	A	N9-C4	5.79	1.41	1.37
1	N	528	C	C3'-C2'	-5.79	1.46	1.52
1	N	774	G	O3'-P	-5.79	1.54	1.61
1	N	1497	G	N7-C5	-5.79	1.35	1.39
1	N	634	C	N1-C2	-5.78	1.34	1.40
1	N	1201	A	C8-N7	-5.78	1.27	1.31
1	N	840	C	C4'-C3'	5.78	1.59	1.53
1	N	1326	U	P-O5'	-5.78	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	90	C	C4-C5	5.78	1.47	1.43
1	N	113	G	C5-C6	-5.78	1.36	1.42
1	N	495	A	C4'-C3'	5.78	1.59	1.53
1	N	576	C	C5'-C4'	5.78	1.58	1.51
1	N	665	A	C6-N1	5.78	1.39	1.35
1	N	917	G	O4'-C1'	-5.78	1.34	1.41
1	N	642	A	N1-C2	5.78	1.39	1.34
1	N	193	C	P-O5'	-5.78	1.53	1.59
1	N	1064	G	C2-N3	5.78	1.37	1.32
1	N	1507	A	C6-N1	5.78	1.39	1.35
1	N	485	U	C5-C6	-5.78	1.28	1.34
1	N	582	C	C4'-C3'	5.78	1.59	1.53
1	N	639	G	C2-N2	5.78	1.40	1.34
1	N	993	G	N1-C2	5.78	1.42	1.37
1	N	996	A	N7-C5	-5.78	1.35	1.39
1	N	1114	C	C4-C5	-5.78	1.38	1.43
1	N	554	A	N9-C4	5.77	1.41	1.37
1	N	1372	U	C5-C6	5.77	1.39	1.34
1	N	99	C	C1'-N1	5.77	1.57	1.48
1	N	219	U	C2-N3	5.77	1.41	1.37
1	N	1237	C	C4-C5	5.77	1.47	1.43
1	N	115	G	C8-N7	-5.77	1.27	1.30
1	N	1215	G	C8-N7	-5.77	1.27	1.30
1	N	1363	A	C8-N7	-5.77	1.27	1.31
1	N	163	C	C5'-C4'	5.77	1.58	1.51
1	N	403	C	C3'-C2'	5.77	1.59	1.52
1	N	851	G	C8-N7	-5.77	1.27	1.30
1	N	1327	C	C2'-C1'	-5.77	1.47	1.53
1	N	1354	U	N3-C4	5.77	1.43	1.38
1	N	1359	C	C2-O2	5.77	1.29	1.24
1	N	45	G	N9-C8	5.77	1.41	1.37
1	N	985	C	N1-C2	-5.77	1.34	1.40
1	N	1142	G	C2-N2	5.77	1.40	1.34
1	N	1207	G	N7-C5	-5.77	1.35	1.39
1	N	826	C	C5'-C4'	5.76	1.58	1.51
1	N	1035	A	N9-C4	-5.76	1.34	1.37
1	N	37	U	N3-C4	5.76	1.43	1.38
1	N	98	A	C5-C4	-5.76	1.34	1.38
1	N	520	A	C6-N1	-5.76	1.31	1.35
1	N	791	G	C5-C6	5.76	1.48	1.42
1	N	952	U	N1-C2	-5.76	1.33	1.38
1	N	979	C	C2-N3	5.76	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1003	G	N1-C2	5.76	1.42	1.37
1	N	1170	A	C6-N1	-5.76	1.31	1.35
1	N	1509	C	N3-C4	5.76	1.38	1.33
1	N	987	G	N9-C8	-5.76	1.33	1.37
1	N	95	C	C5-C6	5.76	1.39	1.34
1	N	575	G	O3'-P	-5.76	1.54	1.61
1	N	735	C	C4-N4	5.76	1.39	1.33
1	N	26	A	O4'-C1'	5.76	1.49	1.41
1	N	803	G	N1-C2	5.76	1.42	1.37
1	N	1168	U	O4'-C1'	5.76	1.49	1.41
1	N	1337	G	N7-C5	5.76	1.42	1.39
1	N	1426	G	C2-N3	5.75	1.37	1.32
1	N	331	G	N7-C5	-5.75	1.35	1.39
1	N	1160	G	C4'-C3'	5.75	1.59	1.53
1	N	417	G	P-O5'	-5.75	1.53	1.59
1	N	441	A	C3'-C2'	-5.75	1.46	1.52
1	N	461	A	C8-N7	-5.75	1.27	1.31
1	N	970	C	C3'-C2'	5.75	1.59	1.52
1	N	986	U	C2-N3	5.75	1.41	1.37
1	N	1164	G	C3'-O3'	5.75	1.50	1.42
1	N	542	G	C4'-C3'	5.75	1.59	1.53
1	N	1266	G	C2-N3	5.75	1.37	1.32
1	N	70	U	N1-C6	-5.75	1.32	1.38
1	N	142	G	C2'-O2'	-5.75	1.34	1.41
1	N	602	A	C5-C4	5.75	1.42	1.38
1	N	648	A	N9-C8	5.75	1.42	1.37
1	N	1228	C	C2-O2	5.75	1.29	1.24
1	N	324	G	C2-N3	5.75	1.37	1.32
1	N	774	G	C5'-C4'	5.75	1.58	1.51
1	N	1516	G	N9-C4	-5.75	1.33	1.38
1	N	864	A	C6-N6	5.75	1.38	1.33
1	N	940	C	C2-N3	5.75	1.40	1.35
1	N	331	G	P-O5'	-5.74	1.54	1.59
1	N	768	A	C8-N7	-5.74	1.27	1.31
1	N	868	C	C4'-O4'	-5.74	1.38	1.45
1	N	1011	C	P-O5'	-5.74	1.54	1.59
1	N	1178	G	C8-N7	-5.74	1.27	1.30
1	N	1225	A	N3-C4	-5.74	1.31	1.34
1	N	1313	U	C4'-C3'	5.74	1.59	1.53
1	N	1444	U	P-O5'	-5.74	1.54	1.59
1	N	399	G	C4'-C3'	5.74	1.59	1.53
1	N	1047	G	C5'-C4'	5.74	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	48	C	C4'-C3'	-5.74	1.46	1.52
1	N	82	G	N3-C4	5.74	1.39	1.35
1	N	1006	G	C5-C4	-5.74	1.34	1.38
1	N	1245	C	N3-C4	5.74	1.38	1.33
1	N	1286	U	O3'-P	-5.74	1.54	1.61
1	N	1377	A	N9-C4	-5.74	1.34	1.37
1	N	751	U	C2-N3	5.74	1.41	1.37
1	N	1169	A	C2'-C1'	-5.74	1.47	1.53
1	N	1303	C	C5'-C4'	5.74	1.58	1.51
1	N	1490	U	C1'-N1	5.74	1.57	1.48
1	N	1531	A	C3'-C2'	-5.74	1.46	1.52
1	N	992	U	N1-C2	5.74	1.43	1.38
1	N	1131	G	C6-N1	5.74	1.43	1.39
1	N	1210	C	C5'-C4'	5.74	1.58	1.51
1	N	179	A	P-O5'	-5.74	1.54	1.59
1	N	326	G	N7-C5	-5.74	1.35	1.39
1	N	383	A	O3'-P	-5.74	1.54	1.61
1	N	964	A	O3'-P	-5.74	1.54	1.61
1	N	1402	C	N3-C4	5.74	1.38	1.33
1	N	252	U	N1-C6	5.73	1.43	1.38
1	N	1111	A	C3'-C2'	-5.73	1.46	1.52
1	N	37	U	C5'-C4'	5.73	1.58	1.51
1	N	675	A	N9-C4	5.73	1.41	1.37
1	N	895	G	N3-C4	5.73	1.39	1.35
1	N	1384	C	O4'-C1'	-5.73	1.34	1.41
1	N	1305	G	N7-C5	-5.73	1.35	1.39
1	N	164	G	C2-N2	5.73	1.40	1.34
1	N	455	G	O3'-P	5.73	1.68	1.61
1	N	1154	G	C5'-C4'	5.73	1.58	1.51
1	N	484	G	O3'-P	-5.73	1.54	1.61
1	N	491	G	O3'-P	-5.73	1.54	1.61
1	N	108	G	N7-C5	-5.72	1.35	1.39
1	N	1058	G	N9-C4	-5.72	1.33	1.38
1	N	1068	G	O4'-C1'	5.72	1.49	1.41
1	N	456	A	C2'-C1'	-5.72	1.47	1.53
1	N	719	C	C4'-C3'	5.72	1.59	1.53
1	N	1409	C	N3-C4	5.72	1.38	1.33
1	N	1501	C	C1'-N1	5.72	1.57	1.48
1	N	14	U	C2'-C1'	-5.72	1.47	1.53
1	N	1044	A	C6-N1	-5.72	1.31	1.35
1	N	1482	G	N1-C2	-5.72	1.33	1.37
1	N	4	U	C1'-N1	5.72	1.57	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	633	G	C2'-C1'	-5.72	1.47	1.53
1	N	921	U	C2-N3	5.72	1.41	1.37
1	N	478	A	P-O5'	-5.72	1.54	1.59
1	N	522	C	C2-N3	5.72	1.40	1.35
1	N	238	A	N9-C4	-5.72	1.34	1.37
1	N	648	A	O4'-C1'	5.72	1.49	1.41
1	N	746	A	C4'-O4'	5.72	1.52	1.45
1	N	812	G	N1-C2	5.72	1.42	1.37
1	N	1122	U	C4'-C3'	5.72	1.59	1.53
1	N	1178	G	C6-O6	5.72	1.29	1.24
1	N	1289	A	C2-N3	5.72	1.38	1.33
1	N	1306	A	O3'-P	-5.72	1.54	1.61
1	N	212	G	C2-N3	5.71	1.37	1.32
1	N	301	G	N7-C5	-5.71	1.35	1.39
1	N	1094	G	P-O5'	-5.71	1.54	1.59
1	N	373	A	N9-C8	-5.71	1.33	1.37
1	N	400	C	C2-O2	-5.71	1.19	1.24
1	N	444	G	N7-C5	-5.71	1.35	1.39
1	N	752	G	C2-N3	5.71	1.37	1.32
1	N	1531	A	C1'-N9	5.71	1.57	1.48
1	N	412	A	O3'-P	-5.71	1.54	1.61
1	N	916	U	C4'-O4'	5.71	1.52	1.45
1	N	994	A	C6-N6	5.71	1.38	1.33
1	N	1010	U	C2'-C1'	-5.71	1.47	1.53
1	N	167	A	C4'-O4'	-5.71	1.38	1.45
1	N	182	A	C8-N7	-5.71	1.27	1.31
1	N	398	U	C2'-C1'	-5.71	1.47	1.53
1	N	673	A	O3'-P	-5.71	1.54	1.61
1	N	693	G	N1-C2	5.71	1.42	1.37
1	N	728	A	O4'-C1'	5.71	1.49	1.41
1	N	66	A	C5-C4	-5.71	1.34	1.38
1	N	164	G	C3'-O3'	5.71	1.50	1.42
1	N	187	G	C2'-O2'	5.71	1.49	1.41
1	N	648	A	N1-C2	-5.71	1.29	1.34
1	N	804	U	N1-C2	5.71	1.43	1.38
1	N	820	U	C2'-C1'	-5.71	1.47	1.53
1	N	233	C	O3'-P	-5.70	1.54	1.61
1	N	703	G	C2-N3	5.70	1.37	1.32
1	N	577	G	N3-C4	5.70	1.39	1.35
1	N	131	A	C6-N6	5.70	1.38	1.33
1	N	313	A	C5-C4	5.70	1.42	1.38
1	N	1374	A	C8-N7	-5.70	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1420	U	C3'-C2'	5.70	1.59	1.52
1	N	449	G	O3'-P	-5.70	1.54	1.61
1	N	1184	G	C5-C6	-5.70	1.36	1.42
1	N	1450	U	C5'-C4'	5.70	1.58	1.51
1	N	254	G	P-O5'	-5.70	1.54	1.59
1	N	256	U	N1-C6	-5.70	1.32	1.38
1	N	288	A	C3'-C2'	-5.70	1.46	1.52
1	N	299	G	C2-N3	5.70	1.37	1.32
1	N	1041	G	C6-N1	5.70	1.43	1.39
1	N	1415	G	C2'-C1'	5.70	1.59	1.53
1	N	529	G	C2-N3	5.69	1.37	1.32
1	N	1318	A	C2'-C1'	-5.69	1.47	1.53
1	N	1334	G	N7-C5	-5.69	1.35	1.39
1	N	162	A	C5-C6	5.69	1.46	1.41
1	N	698	G	C5'-C4'	5.69	1.58	1.51
1	N	843	U	C1'-N1	5.69	1.57	1.48
1	N	1022	A	C6-N1	5.69	1.39	1.35
1	N	1057	G	N9-C4	5.69	1.42	1.38
1	N	16	A	C4'-C3'	5.69	1.59	1.53
1	N	482	A	C6-N6	5.69	1.38	1.33
1	N	514	C	N3-C4	5.69	1.38	1.33
1	N	274	A	O3'-P	-5.69	1.54	1.61
1	N	141	G	N3-C4	-5.69	1.31	1.35
1	N	436	C	C4-N4	5.69	1.39	1.33
1	N	815	A	N3-C4	-5.69	1.31	1.34
1	N	1096	C	C4'-C3'	5.69	1.59	1.53
1	N	1361	G	N1-C2	5.69	1.42	1.37
1	N	101	A	C5-C4	5.69	1.42	1.38
1	N	630	A	C6-N1	5.69	1.39	1.35
1	N	750	C	C4-C5	-5.69	1.38	1.43
1	N	992	U	C5'-C4'	5.69	1.58	1.51
1	N	1282	C	C4-C5	5.69	1.47	1.43
1	N	35	G	C5'-C4'	5.68	1.58	1.51
1	N	1078	U	C3'-C2'	5.68	1.59	1.52
1	N	324	G	C5'-C4'	5.68	1.58	1.51
1	N	349	A	C5-C6	-5.68	1.35	1.41
1	N	352	C	O4'-C1'	-5.68	1.34	1.41
1	N	666	G	O4'-C1'	5.68	1.49	1.41
1	N	855	U	N1-C6	5.68	1.43	1.38
1	N	886	G	N3-C4	-5.68	1.31	1.35
1	N	144	G	N9-C4	-5.68	1.33	1.38
1	N	606	G	C5'-C4'	5.68	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	623	C	C5-C6	-5.68	1.29	1.34
1	N	665	A	C5'-C4'	-5.68	1.44	1.51
1	N	754	C	N1-C6	-5.68	1.33	1.37
1	N	772	U	C5-C6	5.68	1.39	1.34
1	N	1287	A	N7-C5	-5.68	1.35	1.39
1	N	1257	A	C5-C4	5.68	1.42	1.38
1	N	1384	C	C4-N4	5.68	1.39	1.33
1	N	366	A	C6-N6	5.68	1.38	1.33
1	N	563	A	C8-N7	5.68	1.35	1.31
1	N	805	C	C5'-C4'	5.68	1.58	1.51
1	N	893	C	N1-C6	5.68	1.40	1.37
1	N	980	C	C3'-O3'	5.68	1.50	1.42
1	N	1191	A	C5-C4	5.68	1.42	1.38
1	N	1362	A	C8-N7	-5.68	1.27	1.31
1	N	123	U	O3'-P	-5.67	1.54	1.61
1	N	448	A	N9-C4	5.67	1.41	1.37
1	N	733	G	C8-N7	5.67	1.34	1.30
1	N	738	C	C1'-N1	5.67	1.57	1.48
1	N	635	A	C5'-C4'	5.67	1.58	1.51
1	N	182	A	C3'-O3'	5.67	1.50	1.42
1	N	362	G	N3-C4	-5.67	1.31	1.35
1	N	822	U	C4-O4	-5.67	1.19	1.23
1	N	225	C	O4'-C1'	5.67	1.49	1.41
1	N	695	A	P-O5'	-5.67	1.54	1.59
1	N	735	C	C4'-C3'	5.67	1.59	1.53
1	N	1181	G	N3-C4	-5.67	1.31	1.35
1	N	312	C	C2'-C1'	-5.67	1.47	1.53
1	N	377	G	P-O5'	-5.67	1.54	1.59
1	N	663	A	N7-C5	-5.67	1.35	1.39
1	N	801	U	P-O5'	5.67	1.65	1.59
1	N	6	G	C1'-N9	5.67	1.57	1.48
1	N	31	G	C2-N3	5.67	1.37	1.32
1	N	535	A	O3'-P	5.67	1.68	1.61
1	N	1203	C	N1-C6	-5.67	1.33	1.37
1	N	141	G	N9-C8	-5.66	1.33	1.37
1	N	271	C	N3-C4	5.66	1.38	1.33
1	N	354	G	C2'-C1'	-5.66	1.47	1.53
1	N	1515	G	C2-N2	5.66	1.40	1.34
1	N	327	A	O4'-C1'	5.66	1.49	1.41
1	N	764	C	O4'-C1'	5.66	1.49	1.41
1	N	1428	A	N1-C2	5.66	1.39	1.34
1	N	386	C	C2-N3	5.66	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	829	G	C5-C4	-5.66	1.34	1.38
1	N	1155	A	O4'-C1'	5.66	1.49	1.41
1	N	1383	C	C2'-C1'	-5.66	1.47	1.53
1	N	267	C	C5'-C4'	5.66	1.58	1.51
1	N	571	U	C4-C5	-5.66	1.38	1.43
1	N	757	U	N3-C4	5.66	1.43	1.38
1	N	1002	G	O3'-P	-5.66	1.54	1.61
1	N	1284	C	N3-C4	5.66	1.38	1.33
1	N	1340	A	C6-N6	5.66	1.38	1.33
1	N	531	U	C2'-O2'	5.66	1.49	1.41
1	N	608	A	N9-C4	5.66	1.41	1.37
1	N	1151	A	C2'-C1'	-5.66	1.47	1.53
1	N	560	A	C5-C6	5.66	1.46	1.41
1	N	526	C	C2-N3	5.65	1.40	1.35
1	N	763	G	C2'-C1'	-5.65	1.47	1.53
1	N	922	G	C5'-C4'	5.65	1.58	1.51
1	N	1476	A	O3'-P	-5.65	1.54	1.61
1	N	112	G	N3-C4	-5.65	1.31	1.35
1	N	181	A	C8-N7	-5.65	1.27	1.31
1	N	1518	A	C5-C4	5.65	1.42	1.38
1	N	617	G	N7-C5	-5.65	1.35	1.39
1	N	1032	G	C8-N7	-5.65	1.27	1.30
1	N	1144	G	O4'-C1'	5.65	1.49	1.41
1	N	1145	A	C6-N6	5.65	1.38	1.33
1	N	1241	G	C6-N1	5.65	1.43	1.39
1	N	1118	U	C5-C6	5.65	1.39	1.34
1	N	1533	C	C4-N4	5.65	1.39	1.33
1	N	443	C	C5'-C4'	5.65	1.58	1.51
1	N	953	G	N9-C8	5.65	1.41	1.37
1	N	231	U	P-O5'	5.64	1.65	1.59
1	N	406	G	N7-C5	5.64	1.42	1.39
1	N	758	C	C4-N4	5.64	1.39	1.33
1	N	1072	G	O3'-P	-5.64	1.54	1.61
1	N	1187	G	N9-C4	-5.64	1.33	1.38
1	N	1343	G	N1-C2	5.64	1.42	1.37
1	N	87	C	C4-N4	5.64	1.39	1.33
1	N	1139	G	C4'-O4'	-5.64	1.38	1.45
1	N	47	C	C1'-N1	5.64	1.57	1.48
1	N	260	G	N1-C2	5.64	1.42	1.37
1	N	719	C	C3'-C2'	-5.64	1.46	1.52
1	N	1012	A	C6-N1	-5.64	1.31	1.35
1	N	260	G	C8-N7	5.64	1.34	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1532	U	C1'-N1	5.64	1.57	1.48
1	N	248	C	C1'-N1	5.64	1.57	1.48
1	N	688	G	C2-N3	5.64	1.37	1.32
1	N	1198	G	C5-C4	5.64	1.42	1.38
1	N	1268	G	C5-C6	-5.64	1.36	1.42
1	N	1166	G	C5-C6	-5.63	1.36	1.42
1	N	160	A	C5-C4	5.63	1.42	1.38
1	N	444	G	C5'-C4'	5.63	1.58	1.51
1	N	507	C	N3-C4	5.63	1.37	1.33
1	N	817	C	C3'-C2'	5.63	1.59	1.52
1	N	1390	U	C2-N3	5.63	1.41	1.37
1	N	806	C	N3-C4	5.63	1.37	1.33
1	N	992	U	C5-C6	5.63	1.39	1.34
1	N	1152	A	C4'-C3'	5.63	1.59	1.53
1	N	1244	G	C6-N1	5.63	1.43	1.39
1	N	97	G	C5-C4	-5.63	1.34	1.38
1	N	174	A	C6-N6	5.63	1.38	1.33
1	N	465	A	C6-N6	5.63	1.38	1.33
1	N	506	G	C1'-N9	5.63	1.57	1.48
1	N	311	C	C5'-C4'	5.63	1.58	1.51
1	N	935	A	P-O5'	-5.63	1.54	1.59
1	N	364	A	C6-N1	5.62	1.39	1.35
1	N	982	U	C2'-C1'	-5.62	1.47	1.53
1	N	76	G	C2-N3	5.62	1.37	1.32
1	N	600	A	N3-C4	5.62	1.38	1.34
1	N	1473	G	C3'-C2'	-5.62	1.46	1.52
1	N	168	G	C5-C6	-5.62	1.36	1.42
1	N	670	G	P-O5'	-5.62	1.54	1.59
1	N	1335	U	O3'-P	-5.62	1.54	1.61
1	N	1346	A	C2'-C1'	5.62	1.59	1.53
1	N	1417	G	N7-C5	-5.62	1.35	1.39
1	N	326	G	C4'-C3'	-5.62	1.47	1.52
1	N	580	C	N1-C6	5.62	1.40	1.37
1	N	20	U	C4'-C3'	5.61	1.59	1.53
1	N	125	U	N3-C4	5.61	1.43	1.38
1	N	331	G	C5-C4	5.61	1.42	1.38
1	N	359	G	C6-N1	-5.61	1.35	1.39
1	N	572	A	C5-C6	-5.61	1.35	1.41
1	N	1103	C	C4-N4	5.61	1.39	1.33
1	N	1121	U	N1-C2	5.61	1.43	1.38
1	N	1306	A	C4'-C3'	5.61	1.59	1.53
1	N	1456	A	C1'-N9	5.61	1.57	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1485	U	N3-C4	5.61	1.43	1.38
1	N	1507	A	O3'-P	-5.61	1.54	1.61
1	N	1035	A	C5'-C4'	5.61	1.58	1.51
1	N	19	A	P-O5'	-5.61	1.54	1.59
1	N	1203	C	C3'-C2'	5.61	1.59	1.52
1	N	1389	C	C4'-O4'	-5.61	1.38	1.45
1	N	875	U	C5'-C4'	5.61	1.58	1.51
1	N	452	A	C2'-C1'	-5.61	1.47	1.53
1	N	782	A	C4'-C3'	5.61	1.59	1.53
1	N	895	G	C2-N2	5.61	1.40	1.34
1	N	1295	U	O4'-C1'	5.61	1.49	1.41
1	N	1438	G	P-O5'	5.61	1.65	1.59
1	N	18	C	N3-C4	5.61	1.37	1.33
1	N	824	G	C8-N7	-5.61	1.27	1.30
1	N	901	A	N3-C4	-5.61	1.31	1.34
1	N	956	U	C3'-O3'	5.61	1.50	1.42
1	N	1406	U	C5-C6	5.61	1.39	1.34
1	N	862	C	O3'-P	-5.60	1.54	1.61
1	N	134	G	O4'-C1'	5.60	1.49	1.41
1	N	721	G	C5-C4	5.60	1.42	1.38
1	N	232	G	C5-C4	5.60	1.42	1.38
1	N	334	C	N1-C6	-5.60	1.33	1.37
1	N	1439	G	N9-C4	-5.60	1.33	1.38
1	N	309	A	C6-N1	5.60	1.39	1.35
1	N	105	G	C2-N2	5.60	1.40	1.34
1	N	625	U	C3'-C2'	-5.60	1.46	1.52
1	N	772	U	O3'-P	-5.59	1.54	1.61
1	N	1052	U	N3-C4	5.59	1.43	1.38
1	N	1158	C	C2'-C1'	-5.59	1.47	1.53
1	N	1196	A	C8-N7	-5.59	1.27	1.31
1	N	1333	A	C2'-C1'	-5.59	1.47	1.53
1	N	241	G	N7-C5	5.59	1.42	1.39
1	N	601	G	C2'-C1'	-5.59	1.47	1.53
1	N	730	G	C3'-C2'	-5.59	1.46	1.52
1	N	1266	G	O3'-P	-5.59	1.54	1.61
1	N	104	G	C5-C6	5.59	1.48	1.42
1	N	109	A	C5-C6	5.59	1.46	1.41
1	N	111	G	N9-C4	5.59	1.42	1.38
1	N	283	U	O3'-P	-5.59	1.54	1.61
1	N	775	G	N9-C8	-5.59	1.33	1.37
1	N	1063	C	N3-C4	5.59	1.37	1.33
1	N	1183	U	C3'-C2'	5.59	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1520	C	C2-N3	5.59	1.40	1.35
1	N	94	G	C5'-C4'	5.59	1.58	1.51
1	N	207	C	C5'-C4'	5.59	1.58	1.51
1	N	235	C	P-O5'	-5.59	1.54	1.59
1	N	322	C	C3'-C2'	-5.59	1.46	1.52
1	N	908	A	N7-C5	-5.59	1.35	1.39
1	N	466	A	C2'-C1'	-5.59	1.47	1.53
1	N	901	A	C2-N3	5.59	1.38	1.33
1	N	1185	G	C5'-C4'	-5.59	1.44	1.51
1	N	1286	U	C4'-C3'	5.59	1.59	1.53
1	N	614	C	C2-N3	5.58	1.40	1.35
1	N	942	G	C3'-C2'	-5.58	1.46	1.52
1	N	847	G	N9-C8	5.58	1.41	1.37
1	N	1111	A	C4'-O4'	-5.58	1.38	1.45
1	N	1246	A	C6-N6	5.58	1.38	1.33
1	N	1311	A	P-O5'	-5.58	1.54	1.59
1	N	1354	U	C2-N3	5.58	1.41	1.37
1	N	1483	A	C5-C6	5.58	1.46	1.41
1	N	223	A	O3'-P	-5.58	1.54	1.61
1	N	740	U	N3-C4	5.58	1.43	1.38
1	N	168	G	C2-N2	5.58	1.40	1.34
1	N	904	U	C2-N3	5.58	1.41	1.37
1	N	1505	G	N7-C5	-5.58	1.35	1.39
1	N	860	A	C3'-C2'	5.58	1.59	1.52
1	N	1231	G	C2'-C1'	-5.58	1.47	1.53
1	N	370	C	N1-C6	5.58	1.40	1.37
1	N	1198	G	C2-N3	5.58	1.37	1.32
1	N	22	G	C8-N7	-5.58	1.27	1.30
1	N	132	C	C3'-C2'	-5.58	1.46	1.52
1	N	783	C	C5-C6	5.58	1.38	1.34
1	N	1146	A	C8-N7	-5.58	1.27	1.31
1	N	640	A	C6-N6	5.57	1.38	1.33
1	N	1145	A	N3-C4	-5.57	1.31	1.34
1	N	135	C	C4'-C3'	-5.57	1.47	1.52
1	N	1358	U	C2'-C1'	-5.57	1.47	1.53
1	N	7	A	C4'-O4'	5.57	1.52	1.45
1	N	813	U	N1-C6	5.57	1.43	1.38
1	N	72	A	N7-C5	-5.57	1.35	1.39
1	N	533	A	O4'-C1'	5.57	1.48	1.41
1	N	956	U	O3'-P	-5.57	1.54	1.61
1	N	1189	U	P-O5'	-5.57	1.54	1.59
1	N	1277	C	N1-C2	-5.57	1.34	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1420	U	C5'-C4'	5.57	1.58	1.51
1	N	1433	A	C5-C6	-5.57	1.36	1.41
1	N	87	C	C4-C5	5.57	1.47	1.43
1	N	671	G	C5-C4	5.57	1.42	1.38
1	N	831	A	N9-C4	-5.57	1.34	1.37
1	N	877	G	P-O5'	-5.56	1.54	1.59
1	N	1457	G	N1-C2	5.56	1.42	1.37
1	N	633	G	O3'-P	5.56	1.67	1.61
1	N	675	A	O4'-C1'	5.56	1.48	1.41
1	N	1048	G	C2'-C1'	-5.56	1.47	1.53
1	N	1065	U	C4'-O4'	-5.56	1.38	1.45
1	N	93	U	N3-C4	5.56	1.43	1.38
1	N	728	A	C4'-C3'	5.56	1.59	1.53
1	N	837	U	P-O5'	-5.56	1.54	1.59
1	N	1103	C	C2-N3	-5.56	1.31	1.35
1	N	60	A	C6-N1	-5.56	1.31	1.35
1	N	168	G	C2-N3	5.56	1.37	1.32
1	N	346	G	O3'-P	-5.56	1.54	1.61
1	N	710	G	C8-N7	5.56	1.34	1.30
1	N	1018	G	C3'-C2'	-5.56	1.46	1.52
1	N	1101	A	C8-N7	-5.56	1.27	1.31
1	N	1374	A	C3'-C2'	5.56	1.59	1.52
1	N	250	A	O3'-P	-5.56	1.54	1.61
1	N	349	A	O4'-C1'	5.56	1.48	1.41
1	N	444	G	C2-N2	5.56	1.40	1.34
1	N	505	G	N7-C5	-5.56	1.35	1.39
1	N	858	G	C2-N3	5.56	1.37	1.32
1	N	1476	A	C2'-C1'	-5.56	1.47	1.53
1	N	1488	G	C2'-C1'	5.56	1.59	1.53
1	N	1501	C	C2-N3	5.56	1.40	1.35
1	N	912	C	C3'-C2'	-5.56	1.46	1.52
1	N	1314	C	C4'-C3'	5.56	1.59	1.53
1	N	1523	G	C6-N1	5.56	1.43	1.39
1	N	10	A	N9-C4	-5.55	1.34	1.37
1	N	128	G	C6-N1	5.55	1.43	1.39
1	N	298	A	N7-C5	-5.55	1.35	1.39
1	N	324	G	C5-C6	-5.55	1.36	1.42
1	N	373	A	C2-N3	5.55	1.38	1.33
1	N	1197	A	P-O5'	-5.55	1.54	1.59
1	N	1381	U	C4-C5	5.55	1.48	1.43
1	N	41	G	C8-N7	5.55	1.34	1.30
1	N	338	A	C6-N6	5.55	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	776	G	C2-N2	5.55	1.40	1.34
1	N	265	G	C8-N7	5.55	1.34	1.30
1	N	389	A	N3-C4	5.55	1.38	1.34
1	N	459	A	P-O5'	-5.55	1.54	1.59
1	N	869	G	C3'-C2'	-5.55	1.46	1.52
1	N	886	G	C5-C4	5.55	1.42	1.38
1	N	1016	A	C5-C6	-5.55	1.36	1.41
1	N	1135	U	C2'-C1'	-5.55	1.47	1.53
1	N	88	U	C4-C5	5.55	1.48	1.43
1	N	179	A	C5-C4	-5.55	1.34	1.38
1	N	786	G	C8-N7	5.55	1.34	1.30
1	N	1359	C	N1-C6	5.55	1.40	1.37
1	N	1440	U	C2-N3	-5.55	1.33	1.37
1	N	1504	G	O3'-P	-5.55	1.54	1.61
1	N	970	C	C4'-C3'	-5.55	1.47	1.52
1	N	228	A	P-O5'	-5.55	1.54	1.59
1	N	442	G	N9-C8	-5.55	1.33	1.37
1	N	698	G	N9-C8	5.55	1.41	1.37
1	N	781	A	C5-C4	5.55	1.42	1.38
1	N	1280	A	C2'-C1'	-5.55	1.47	1.53
1	N	297	G	C5'-C4'	5.54	1.58	1.51
1	N	523	A	C2-N3	5.54	1.38	1.33
1	N	649	A	N9-C8	5.54	1.42	1.37
1	N	887	G	C8-N7	5.54	1.34	1.30
1	N	1422	G	C5'-C4'	5.54	1.58	1.51
1	N	330	C	C4-N4	5.54	1.39	1.33
1	N	459	A	C8-N7	-5.54	1.27	1.31
1	N	619	U	P-O5'	-5.54	1.54	1.59
1	N	666	G	O3'-P	-5.54	1.54	1.61
1	N	1249	C	C2-O2	5.54	1.29	1.24
1	N	52	C	C2'-C1'	-5.54	1.47	1.53
1	N	73	C	C1'-N1	5.54	1.57	1.48
1	N	199	A	N1-C2	-5.54	1.29	1.34
1	N	531	U	O4'-C1'	5.54	1.48	1.41
1	N	674	G	N9-C8	5.54	1.41	1.37
1	N	808	C	C4-N4	5.54	1.39	1.33
1	N	282	A	C5'-C4'	5.54	1.57	1.51
1	N	688	G	C6-O6	-5.54	1.19	1.24
1	N	847	G	C6-N1	5.54	1.43	1.39
1	N	862	C	C5'-C4'	5.54	1.57	1.51
1	N	1443	C	C4'-C3'	5.54	1.59	1.53
1	N	402	G	C2-N2	5.54	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	604	G	C5-C6	-5.54	1.36	1.42
1	N	73	C	C4-N4	5.54	1.39	1.33
1	N	95	C	N1-C6	5.54	1.40	1.37
1	N	100	G	C2'-C1'	5.54	1.59	1.53
1	N	214	C	C4-N4	5.54	1.39	1.33
1	N	745	G	C2'-C1'	-5.54	1.47	1.53
1	N	1396	A	N9-C8	-5.54	1.33	1.37
1	N	101	A	C3'-C2'	5.53	1.59	1.52
1	N	463	U	P-O5'	-5.53	1.54	1.59
1	N	936	C	C3'-C2'	-5.53	1.46	1.52
1	N	1122	U	C2-N3	5.53	1.41	1.37
1	N	498	A	O4'-C1'	5.53	1.48	1.41
1	N	702	A	C6-N1	5.53	1.39	1.35
1	N	791	G	N7-C5	-5.53	1.35	1.39
1	N	1073	U	N3-C4	5.53	1.43	1.38
1	N	1433	A	O3'-P	-5.53	1.54	1.61
1	N	1145	A	C5-C4	5.53	1.42	1.38
1	N	167	A	N7-C5	-5.53	1.35	1.39
1	N	336	A	C1'-N9	5.53	1.57	1.48
1	N	480	U	C4'-C3'	5.53	1.59	1.53
1	N	663	A	C5'-C4'	5.53	1.57	1.51
1	N	691	G	C2'-C1'	-5.53	1.47	1.53
1	N	739	C	C5'-C4'	5.53	1.57	1.51
1	N	1387	G	O3'-P	-5.53	1.54	1.61
1	N	186	C	P-O5'	-5.53	1.54	1.59
1	N	414	A	C4'-C3'	5.53	1.59	1.53
1	N	675	A	C2-N3	5.53	1.38	1.33
1	N	709	U	C2-N3	5.53	1.41	1.37
1	N	1455	G	N1-C2	5.53	1.42	1.37
1	N	251	G	N1-C2	5.52	1.42	1.37
1	N	1187	G	C6-N1	-5.52	1.35	1.39
1	N	335	C	N1-C2	-5.52	1.34	1.40
1	N	640	A	C8-N7	-5.52	1.27	1.31
1	N	48	C	C5-C6	-5.52	1.29	1.34
1	N	431	A	N3-C4	-5.52	1.31	1.34
1	N	439	U	C4'-C3'	-5.52	1.47	1.52
1	N	1520	C	C2-O2	5.52	1.29	1.24
1	N	687	A	C5-C6	5.52	1.46	1.41
1	N	908	A	N9-C4	-5.52	1.34	1.37
1	N	1164	G	N1-C2	5.52	1.42	1.37
1	N	1349	A	N3-C4	-5.52	1.31	1.34
1	N	1410	A	C8-N7	5.52	1.35	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	733	G	N1-C2	5.51	1.42	1.37
1	N	767	A	C8-N7	-5.51	1.27	1.31
1	N	791	G	C2'-C1'	-5.51	1.47	1.53
1	N	929	G	N7-C5	-5.51	1.35	1.39
1	N	528	C	C2'-C1'	-5.51	1.47	1.53
1	N	652	U	O3'-P	-5.51	1.54	1.61
1	N	694	A	C8-N7	-5.51	1.27	1.31
1	N	741	G	C2'-C1'	-5.51	1.47	1.53
1	N	102	G	N1-C2	5.51	1.42	1.37
1	N	357	G	C2-N3	5.51	1.37	1.32
1	N	365	U	C4-C5	-5.51	1.38	1.43
1	N	1404	C	C4-C5	5.51	1.47	1.43
1	N	231	U	C4-C5	5.51	1.48	1.43
1	N	243	A	C3'-C2'	5.51	1.59	1.52
1	N	754	C	N3-C4	5.51	1.37	1.33
1	N	1114	C	N3-C4	5.51	1.37	1.33
1	N	1243	C	N3-C4	5.51	1.37	1.33
1	N	1251	A	C6-N6	5.51	1.38	1.33
1	N	108	G	N9-C4	5.50	1.42	1.38
1	N	1006	G	C6-N1	-5.50	1.35	1.39
1	N	1231	G	C8-N7	5.50	1.34	1.30
1	N	191	G	C6-N1	5.50	1.43	1.39
1	N	267	C	C2-N3	5.50	1.40	1.35
1	N	52	C	N3-C4	5.50	1.37	1.33
1	N	231	U	C2'-C1'	-5.50	1.47	1.53
1	N	387	U	P-O5'	-5.50	1.54	1.59
1	N	520	A	P-O5'	-5.50	1.54	1.59
1	N	735	C	C2'-C1'	-5.50	1.47	1.53
1	N	815	A	C8-N7	-5.50	1.27	1.31
1	N	123	U	P-O5'	-5.50	1.54	1.59
1	N	140	U	C2'-C1'	5.50	1.59	1.53
1	N	752	G	N1-C2	-5.50	1.33	1.37
1	N	1050	G	N7-C5	-5.50	1.35	1.39
1	N	1074	G	C5'-C4'	5.50	1.57	1.51
1	N	22	G	C2'-O2'	-5.50	1.34	1.41
1	N	183	C	C4'-O4'	-5.50	1.38	1.45
1	N	251	G	N7-C5	5.50	1.42	1.39
1	N	393	A	C3'-C2'	-5.50	1.46	1.52
1	N	801	U	N1-C2	5.50	1.43	1.38
1	N	1358	U	C1'-N1	5.50	1.56	1.48
1	N	419	C	O3'-P	-5.50	1.54	1.61
1	N	192	A	N9-C4	5.49	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	229	U	C2-O2	5.49	1.27	1.22
1	N	382	A	C5-C4	-5.49	1.34	1.38
1	N	397	A	O3'-P	-5.49	1.54	1.61
1	N	634	C	C4'-C3'	5.49	1.59	1.53
1	N	716	A	C6-N1	5.49	1.39	1.35
1	N	1458	G	C8-N7	-5.49	1.27	1.30
1	N	137	U	O4'-C1'	-5.49	1.34	1.41
1	N	1197	A	N3-C4	5.49	1.38	1.34
1	N	82	G	C5-C6	-5.49	1.36	1.42
1	N	1132	C	C5-C6	5.49	1.38	1.34
1	N	1177	G	C8-N7	-5.49	1.27	1.30
1	N	1214	C	C4'-C3'	5.49	1.59	1.53
1	N	250	A	N7-C5	-5.49	1.35	1.39
1	N	900	A	O3'-P	-5.49	1.54	1.61
1	N	1242	G	P-O5'	-5.49	1.54	1.59
1	N	885	G	N3-C4	-5.49	1.31	1.35
1	N	1105	A	P-O5'	-5.49	1.54	1.59
1	N	1459	G	C5-C4	5.49	1.42	1.38
1	N	205	A	C2'-C1'	5.48	1.59	1.53
1	N	879	C	C3'-C2'	-5.48	1.46	1.52
1	N	285	C	C4-N4	5.48	1.38	1.33
1	N	499	A	C3'-C2'	5.48	1.58	1.52
1	N	1008	U	C2'-C1'	-5.48	1.47	1.53
1	N	1142	G	C3'-O3'	5.48	1.49	1.42
1	N	1529	G	C2'-C1'	-5.48	1.47	1.53
1	N	1169	A	C3'-O3'	5.48	1.49	1.42
1	N	592	G	C2'-C1'	-5.48	1.47	1.53
1	N	1323	G	C8-N7	-5.48	1.27	1.30
1	N	447	G	C2-N2	5.48	1.40	1.34
1	N	600	A	C4'-C3'	5.47	1.59	1.53
1	N	1102	A	C6-N6	-5.47	1.29	1.33
1	N	1381	U	C1'-N1	5.47	1.56	1.48
1	N	40	C	C4-C5	-5.47	1.38	1.43
1	N	152	A	C8-N7	5.47	1.35	1.31
1	N	849	G	N9-C8	5.47	1.41	1.37
1	N	895	G	C5-C6	-5.47	1.36	1.42
1	N	1491	G	C6-N1	5.47	1.43	1.39
1	N	1506	U	C5'-C4'	5.47	1.57	1.51
1	N	628	G	C2-N3	5.47	1.37	1.32
1	N	658	C	N3-C4	5.47	1.37	1.33
1	N	28	A	C8-N7	-5.47	1.27	1.31
1	N	192	A	C6-N1	-5.47	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	459	A	C6-N1	5.47	1.39	1.35
1	N	798	U	C2'-C1'	-5.47	1.47	1.53
1	N	1046	A	C5-C6	-5.47	1.36	1.41
1	N	250	A	C2'-C1'	-5.47	1.47	1.53
1	N	468	A	C6-N6	5.47	1.38	1.33
1	N	1078	U	O5'-C5'	5.47	1.53	1.44
1	N	445	G	N1-C2	5.47	1.42	1.37
1	N	529	G	C2-N2	5.47	1.40	1.34
1	N	999	C	C2'-C1'	-5.47	1.47	1.53
1	N	217	C	C4'-C3'	5.46	1.59	1.53
1	N	399	G	P-O5'	-5.46	1.54	1.59
1	N	874	G	P-O5'	-5.46	1.54	1.59
1	N	1399	C	N3-C4	5.46	1.37	1.33
1	N	68	G	N9-C4	-5.46	1.33	1.38
1	N	781	A	O4'-C1'	5.46	1.48	1.41
1	N	1195	C	C4-N4	5.46	1.38	1.33
1	N	1282	C	C5'-C4'	5.46	1.57	1.51
1	N	1355	G	P-O5'	5.46	1.65	1.59
1	N	259	G	N1-C2	5.46	1.42	1.37
1	N	361	G	C8-N7	-5.46	1.27	1.30
1	N	546	A	C5-C4	-5.46	1.34	1.38
1	N	930	C	C4-N4	5.46	1.38	1.33
1	N	1354	U	C4-O4	5.46	1.28	1.23
1	N	185	U	P-O5'	-5.46	1.54	1.59
1	N	220	G	N9-C4	5.46	1.42	1.38
1	N	245	U	C2-N3	-5.46	1.33	1.37
1	N	311	C	C4-N4	5.46	1.38	1.33
1	N	353	A	N7-C5	-5.46	1.35	1.39
1	N	494	G	C2'-C1'	-5.46	1.47	1.53
1	N	964	A	N3-C4	-5.46	1.31	1.34
1	N	1396	A	C6-N6	5.46	1.38	1.33
1	N	730	G	O3'-P	-5.46	1.54	1.61
1	N	885	G	C2'-C1'	-5.46	1.47	1.53
1	N	1017	U	N1-C2	5.46	1.43	1.38
1	N	1102	A	C2'-C1'	-5.46	1.47	1.53
1	N	1220	G	C6-N1	5.46	1.43	1.39
1	N	674	G	C5'-C4'	5.46	1.57	1.51
1	N	486	U	C1'-N1	5.45	1.56	1.48
1	N	727	G	O4'-C1'	5.45	1.48	1.41
1	N	794	A	C3'-C2'	5.45	1.58	1.52
1	N	58	C	N1-C2	-5.45	1.34	1.40
1	N	1144	G	C6-N1	5.45	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1354	U	C4'-C3'	5.45	1.59	1.53
1	N	293	G	C5-C4	5.45	1.42	1.38
1	N	669	G	C6-O6	5.45	1.29	1.24
1	N	1485	U	C3'-O3'	5.45	1.49	1.42
1	N	26	A	C5-C6	5.45	1.46	1.41
1	N	1336	C	C3'-C2'	5.45	1.58	1.52
1	N	156	C	C4-N4	5.44	1.38	1.33
1	N	826	C	N1-C6	-5.44	1.33	1.37
1	N	1050	G	N3-C4	5.44	1.39	1.35
1	N	1493	A	N3-C4	5.44	1.38	1.34
1	N	243	A	N1-C2	5.44	1.39	1.34
1	N	380	G	O4'-C1'	-5.44	1.34	1.41
1	N	576	C	O3'-P	-5.44	1.54	1.61
1	N	1142	G	N7-C5	-5.44	1.35	1.39
1	N	1423	G	N7-C5	-5.44	1.35	1.39
1	N	324	G	N3-C4	-5.44	1.31	1.35
1	N	867	G	C5-C6	-5.44	1.36	1.42
1	N	165	G	C2-N3	5.44	1.37	1.32
1	N	258	G	C1'-N9	5.44	1.56	1.48
1	N	1015	G	N9-C4	-5.44	1.33	1.38
1	N	1094	G	N1-C2	5.44	1.42	1.37
1	N	1162	C	C2'-C1'	-5.44	1.47	1.53
1	N	1312	G	N7-C5	-5.44	1.35	1.39
1	N	703	G	C5'-C4'	5.44	1.57	1.51
1	N	86	G	P-O5'	-5.43	1.54	1.59
1	N	664	G	C2-N2	5.43	1.40	1.34
1	N	968	A	N7-C5	-5.43	1.35	1.39
1	N	1006	G	P-O5'	5.43	1.65	1.59
1	N	1168	U	C1'-N1	5.43	1.56	1.48
1	N	1355	G	C2-N3	5.43	1.37	1.32
1	N	1415	G	P-O5'	-5.43	1.54	1.59
1	N	125	U	C4-O4	5.43	1.27	1.23
1	N	532	A	C5'-C4'	5.43	1.57	1.51
1	N	990	C	C5-C6	5.43	1.38	1.34
1	N	1530	G	C5-C4	-5.43	1.34	1.38
1	N	961	U	C2'-C1'	-5.43	1.47	1.53
1	N	362	G	C2-N3	5.43	1.37	1.32
1	N	609	A	N9-C8	-5.43	1.33	1.37
1	N	850	U	C4'-O4'	-5.43	1.38	1.45
1	N	1210	C	P-O5'	-5.43	1.54	1.59
1	N	1226	C	C2-O2	5.43	1.29	1.24
1	N	267	C	C4-N4	5.43	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	8	A	C6-N1	5.43	1.39	1.35
1	N	165	G	N9-C4	-5.43	1.33	1.38
1	N	338	A	O3'-P	-5.43	1.54	1.61
1	N	1116	U	C4-C5	5.43	1.48	1.43
1	N	106	C	C4-C5	-5.42	1.38	1.43
1	N	369	G	C3'-O3'	5.42	1.49	1.42
1	N	453	G	C4'-C3'	5.42	1.59	1.53
1	N	466	A	C5'-C4'	-5.42	1.44	1.51
1	N	585	G	N1-C2	5.42	1.42	1.37
1	N	140	U	N3-C4	5.42	1.43	1.38
1	N	422	C	C3'-C2'	5.42	1.58	1.52
1	N	498	A	C4'-O4'	5.42	1.52	1.45
1	N	665	A	N9-C8	5.42	1.42	1.37
1	N	874	G	N7-C5	-5.42	1.35	1.39
1	N	912	C	C2-N3	-5.42	1.31	1.35
1	N	1069	C	C2-N3	5.42	1.40	1.35
1	N	1243	C	O4'-C1'	-5.42	1.34	1.41
1	N	51	A	C3'-C2'	5.42	1.58	1.52
1	N	507	C	C5'-C4'	5.42	1.57	1.51
1	N	570	G	C5'-C4'	5.42	1.57	1.51
1	N	1124	G	N1-C2	5.42	1.42	1.37
1	N	1503	A	N9-C4	5.42	1.41	1.37
1	N	554	A	C5-C4	5.42	1.42	1.38
1	N	851	G	C3'-C2'	-5.42	1.46	1.52
1	N	1345	U	P-O5'	-5.42	1.54	1.59
1	N	88	U	C2-N3	5.42	1.41	1.37
1	N	1395	C	O3'-P	-5.42	1.54	1.61
1	N	185	U	C5'-C4'	5.41	1.57	1.51
1	N	527	G	C2'-C1'	-5.41	1.47	1.53
1	N	805	C	N1-C6	-5.41	1.33	1.37
1	N	1461	G	C8-N7	-5.41	1.27	1.30
1	N	689	C	C4'-C3'	-5.41	1.47	1.52
1	N	1489	G	N1-C2	5.41	1.42	1.37
1	N	383	A	C8-N7	5.41	1.35	1.31
1	N	392	C	C5-C6	-5.41	1.30	1.34
1	N	907	A	C6-N6	5.41	1.38	1.33
1	N	1057	G	C6-O6	-5.41	1.19	1.24
1	N	164	G	N1-C2	5.41	1.42	1.37
1	N	597	G	C6-N1	5.41	1.43	1.39
1	N	642	A	C2-N3	-5.41	1.28	1.33
1	N	842	U	N1-C2	5.41	1.43	1.38
1	N	1144	G	O3'-P	-5.41	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1247	U	C4-C5	5.41	1.48	1.43
1	N	1284	C	C4-N4	5.41	1.38	1.33
1	N	1244	G	C5-C6	-5.41	1.36	1.42
1	N	1294	G	N9-C8	5.41	1.41	1.37
1	N	710	G	C5-C6	-5.41	1.36	1.42
1	N	1012	A	P-O5'	5.41	1.65	1.59
1	N	1337	G	N1-C2	5.41	1.42	1.37
1	N	414	A	N3-C4	-5.40	1.31	1.34
1	N	1254	A	C6-N6	5.40	1.38	1.33
1	N	626	G	N9-C8	-5.40	1.34	1.37
1	N	1328	C	C2-N3	-5.40	1.31	1.35
1	N	1418	A	C8-N7	-5.40	1.27	1.31
1	N	7	A	N9-C8	-5.40	1.33	1.37
1	N	223	A	C6-N6	5.40	1.38	1.33
1	N	332	G	C5-C6	-5.40	1.36	1.42
1	N	923	A	N3-C4	-5.40	1.31	1.34
1	N	993	G	C6-O6	-5.40	1.19	1.24
1	N	1382	C	C2'-C1'	-5.40	1.47	1.53
1	N	1398	A	N1-C2	-5.40	1.29	1.34
1	N	1463	U	N3-C4	5.40	1.43	1.38
1	N	381	C	C4-N4	5.40	1.38	1.33
1	N	164	G	P-O5'	-5.40	1.54	1.59
1	N	321	A	C2'-C1'	-5.40	1.47	1.53
1	N	559	A	N7-C5	-5.40	1.36	1.39
1	N	1356	G	C4'-O4'	5.40	1.52	1.45
1	N	80	A	N9-C8	-5.40	1.33	1.37
1	N	809	G	C1'-N9	5.40	1.56	1.48
1	N	1202	U	C2-N3	5.40	1.41	1.37
1	N	1461	G	C2'-O2'	-5.40	1.34	1.41
1	N	1099	G	C2'-O2'	-5.39	1.34	1.41
1	N	1284	C	C2-N3	5.39	1.40	1.35
1	N	31	G	C8-N7	-5.39	1.27	1.30
1	N	147	G	N3-C4	-5.39	1.31	1.35
1	N	258	G	P-O5'	-5.39	1.54	1.59
1	N	384	G	C2-N2	5.39	1.40	1.34
1	N	474	G	N1-C2	5.39	1.42	1.37
1	N	529	G	C5'-C4'	5.39	1.57	1.51
1	N	557	G	N7-C5	-5.39	1.36	1.39
1	N	1361	G	C5-C4	5.39	1.42	1.38
1	N	876	C	P-O5'	-5.39	1.54	1.59
1	N	886	G	C8-N7	-5.39	1.27	1.30
1	N	1070	U	C4-O4	-5.39	1.19	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1428	A	O3'-P	-5.39	1.54	1.61
1	N	339	C	C4'-C3'	-5.39	1.47	1.52
1	N	439	U	C2'-C1'	-5.39	1.47	1.53
1	N	454	G	N1-C2	5.39	1.42	1.37
1	N	658	C	N1-C6	5.39	1.40	1.37
1	N	832	G	C6-N1	5.39	1.43	1.39
1	N	1404	C	C2-N3	5.39	1.40	1.35
1	N	510	A	C6-N6	5.39	1.38	1.33
1	N	591	U	C5'-C4'	5.39	1.57	1.51
1	N	673	A	N7-C5	5.39	1.42	1.39
1	N	1072	G	C2-N2	5.39	1.40	1.34
1	N	888	G	N1-C2	5.38	1.42	1.37
1	N	1517	G	N3-C4	-5.38	1.31	1.35
1	N	162	A	C6-N1	5.38	1.39	1.35
1	N	909	A	C4'-O4'	5.38	1.52	1.45
1	N	1042	A	P-O5'	-5.38	1.54	1.59
1	N	844	G	C4'-O4'	-5.38	1.38	1.45
1	N	1218	C	C4-C5	-5.38	1.38	1.43
1	N	23	C	C4'-C3'	5.38	1.59	1.53
1	N	226	G	C8-N7	-5.38	1.27	1.30
1	N	269	C	C5-C6	-5.38	1.30	1.34
1	N	270	A	N9-C4	-5.38	1.34	1.37
1	N	449	G	C2-N3	5.38	1.37	1.32
1	N	728	A	C6-N1	5.38	1.39	1.35
1	N	785	G	N3-C4	-5.38	1.31	1.35
1	N	991	U	O3'-P	-5.38	1.54	1.61
1	N	1519	A	C1'-N9	5.38	1.56	1.48
1	N	261	U	P-O5'	-5.38	1.54	1.59
1	N	776	G	P-O5'	-5.38	1.54	1.59
1	N	1317	C	C4-N4	5.38	1.38	1.33
1	N	1282	C	C1'-N1	5.38	1.56	1.48
1	N	574	A	P-O5'	-5.37	1.54	1.59
1	N	579	A	N9-C4	5.37	1.41	1.37
1	N	1179	A	C2'-C1'	5.37	1.59	1.53
1	N	396	C	C2-N3	-5.37	1.31	1.35
1	N	688	G	O3'-P	-5.37	1.54	1.61
1	N	1445	U	P-O5'	-5.37	1.54	1.59
1	N	1501	C	C5'-C4'	5.37	1.57	1.51
1	N	620	C	C2-N3	5.37	1.40	1.35
1	N	1144	G	C2'-C1'	-5.37	1.47	1.53
1	N	541	G	C3'-O3'	5.37	1.49	1.42
1	N	603	U	C1'-N1	5.37	1.56	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	994	A	C8-N7	5.37	1.35	1.31
1	N	1314	C	C4-N4	5.37	1.38	1.33
1	N	356	A	N1-C2	5.37	1.39	1.34
1	N	866	C	C2-N3	5.37	1.40	1.35
1	N	876	C	C4-N4	5.37	1.38	1.33
1	N	1100	C	N1-C6	5.37	1.40	1.37
1	N	1203	C	C4-N4	5.37	1.38	1.33
1	N	1279	G	P-O5'	-5.37	1.54	1.59
1	N	796	C	C2-N3	5.36	1.40	1.35
1	N	21	G	N9-C8	-5.36	1.34	1.37
1	N	61	G	C4'-C3'	-5.36	1.47	1.52
1	N	1026	G	C5'-C4'	5.36	1.57	1.51
1	N	1362	A	C3'-C2'	5.36	1.58	1.52
1	N	334	C	C2'-C1'	-5.36	1.47	1.53
1	N	744	C	P-O5'	5.36	1.65	1.59
1	N	1513	A	C3'-C2'	5.36	1.58	1.52
1	N	936	C	C3'-O3'	5.36	1.49	1.42
1	N	1048	G	C2-N3	5.36	1.37	1.32
1	N	1152	A	C3'-C2'	-5.36	1.46	1.52
1	N	1444	U	C4-O4	5.35	1.27	1.23
1	N	1504	G	N1-C2	5.35	1.42	1.37
1	N	203	G	C2-N3	5.35	1.37	1.32
1	N	408	A	O3'-P	-5.35	1.54	1.61
1	N	411	A	C4'-O4'	-5.35	1.38	1.45
1	N	472	U	O3'-P	-5.35	1.54	1.61
1	N	688	G	C4'-C3'	5.35	1.59	1.53
1	N	919	A	C6-N1	5.35	1.39	1.35
1	N	1152	A	C8-N7	5.35	1.35	1.31
1	N	1305	G	P-O5'	-5.35	1.54	1.59
1	N	1427	C	C3'-C2'	5.35	1.58	1.52
1	N	214	C	O4'-C1'	5.35	1.48	1.41
1	N	491	G	N3-C4	-5.35	1.31	1.35
1	N	438	U	C5-C6	5.35	1.39	1.34
1	N	964	A	P-O5'	-5.35	1.54	1.59
1	N	1026	G	C2'-C1'	-5.35	1.47	1.53
1	N	1532	U	P-O5'	5.35	1.65	1.59
1	N	353	A	C2'-C1'	-5.35	1.47	1.53
1	N	510	A	C6-N1	5.35	1.39	1.35
1	N	582	C	O5'-C5'	-5.35	1.34	1.42
1	N	993	G	N7-C5	5.35	1.42	1.39
1	N	1116	U	N1-C6	5.35	1.42	1.38
1	N	113	G	C2'-C1'	-5.35	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	452	A	O3'-P	5.35	1.67	1.61
1	N	674	G	C2-N2	5.35	1.39	1.34
1	N	1483	A	C6-N6	5.35	1.38	1.33
1	N	502	A	N3-C4	5.34	1.38	1.34
1	N	832	G	C5-C6	-5.34	1.37	1.42
1	N	396	C	N3-C4	5.34	1.37	1.33
1	N	1490	U	C3'-C2'	5.34	1.58	1.52
1	N	213	G	N9-C4	5.34	1.42	1.38
1	N	450	G	N7-C5	-5.34	1.36	1.39
1	N	487	A	C6-N6	5.34	1.38	1.33
1	N	1503	A	C5-C6	-5.34	1.36	1.41
1	N	313	A	C2-N3	5.34	1.38	1.33
1	N	562	U	C2-N3	5.34	1.41	1.37
1	N	596	A	N9-C8	-5.34	1.33	1.37
1	N	897	C	C2'-C1'	-5.34	1.47	1.53
1	N	1196	A	N7-C5	-5.34	1.36	1.39
1	N	510	A	C2'-C1'	-5.34	1.47	1.53
1	N	251	G	C1'-N9	5.34	1.56	1.48
1	N	1318	A	C4'-O4'	5.34	1.52	1.45
1	N	157	U	C1'-N1	5.33	1.56	1.48
1	N	342	C	N3-C4	5.33	1.37	1.33
1	N	420	U	N3-C4	5.33	1.43	1.38
1	N	1352	C	O3'-P	-5.33	1.54	1.61
1	N	1406	U	C2'-O2'	5.33	1.48	1.41
1	N	325	A	C5-C4	-5.33	1.35	1.38
1	N	587	G	N3-C4	5.33	1.39	1.35
1	N	588	G	C5-C4	-5.33	1.34	1.38
1	N	943	U	C1'-N1	5.33	1.56	1.48
1	N	992	U	N1-C6	-5.33	1.33	1.38
1	N	1235	U	C5'-C4'	5.33	1.57	1.51
1	N	1500	A	C5'-C4'	5.33	1.57	1.51
1	N	141	G	P-O5'	-5.33	1.54	1.59
1	N	265	G	C5'-C4'	5.33	1.57	1.51
1	N	223	A	C3'-C2'	5.33	1.58	1.52
1	N	476	U	C3'-O3'	5.33	1.49	1.42
1	N	1088	G	C2-N2	5.33	1.39	1.34
1	N	1112	C	C4-N4	5.33	1.38	1.33
1	N	1360	A	C3'-C2'	-5.33	1.46	1.52
1	N	1484	C	C4-N4	5.33	1.38	1.33
1	N	682	G	C1'-N9	5.33	1.56	1.48
1	N	29	U	C2'-C1'	-5.33	1.47	1.53
1	N	844	G	C5-C4	5.33	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1394	A	C6-N1	5.33	1.39	1.35
1	N	138	G	N9-C4	-5.32	1.33	1.38
1	N	1306	A	C6-N1	5.32	1.39	1.35
1	N	1489	G	C2'-C1'	-5.32	1.47	1.53
1	N	187	G	O3'-P	-5.32	1.54	1.61
1	N	301	G	C8-N7	-5.32	1.27	1.30
1	N	422	C	P-O5'	-5.32	1.54	1.59
1	N	535	A	C1'-N9	5.32	1.56	1.48
1	N	945	G	N9-C8	-5.32	1.34	1.37
1	N	1011	C	N3-C4	5.32	1.37	1.33
1	N	181	A	O3'-P	-5.32	1.54	1.61
1	N	448	A	N7-C5	-5.32	1.36	1.39
1	N	1225	A	N9-C4	-5.32	1.34	1.37
1	N	57	G	N9-C8	5.32	1.41	1.37
1	N	833	G	C5-C4	5.32	1.42	1.38
1	N	907	A	C5'-C4'	5.32	1.57	1.51
1	N	156	C	C5'-C4'	5.32	1.57	1.51
1	N	311	C	C2-N3	5.32	1.40	1.35
1	N	492	C	C2-O2	5.32	1.29	1.24
1	N	1322	C	C3'-C2'	5.32	1.58	1.52
1	N	189	A	C4'-C3'	5.31	1.58	1.53
1	N	279	A	N3-C4	5.31	1.38	1.34
1	N	697	U	C2'-C1'	-5.31	1.47	1.53
1	N	1105	A	O4'-C1'	5.31	1.48	1.41
1	N	1137	C	N3-C4	5.31	1.37	1.33
1	N	688	G	P-O5'	5.31	1.65	1.59
1	N	752	G	N9-C4	-5.31	1.33	1.38
1	N	63	C	O3'-P	-5.31	1.54	1.61
1	N	546	A	C3'-O3'	5.31	1.49	1.42
1	N	931	C	O3'-P	-5.31	1.54	1.61
1	N	1164	G	C5'-C4'	5.31	1.57	1.51
1	N	1244	G	C8-N7	-5.31	1.27	1.30
1	N	1500	A	N9-C4	-5.31	1.34	1.37
1	N	584	G	N3-C4	-5.31	1.31	1.35
1	N	814	A	C6-N1	5.31	1.39	1.35
1	N	886	G	C2-N3	5.31	1.36	1.32
1	N	886	G	C4'-C3'	-5.31	1.47	1.52
1	N	1069	C	C2-O2	5.31	1.29	1.24
1	N	1215	G	P-O5'	-5.31	1.54	1.59
1	N	1332	A	C5-C4	5.31	1.42	1.38
1	N	153	C	N3-C4	5.30	1.37	1.33
1	N	254	G	O4'-C1'	5.30	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	660	C	C4-N4	5.30	1.38	1.33
1	N	839	C	C4'-C3'	-5.30	1.47	1.52
1	N	1142	G	C5'-C4'	5.30	1.57	1.51
1	N	956	U	C2'-C1'	-5.30	1.47	1.53
1	N	1070	U	C4-C5	5.30	1.48	1.43
1	N	1285	A	C6-N6	5.30	1.38	1.33
1	N	363	A	C4'-C3'	-5.30	1.47	1.52
1	N	473	U	O3'-P	-5.30	1.54	1.61
1	N	543	U	N3-C4	5.30	1.43	1.38
1	N	1039	G	C2-N2	5.30	1.39	1.34
1	N	1131	G	N9-C4	-5.30	1.33	1.38
1	N	13	U	P-O5'	-5.30	1.54	1.59
1	N	350	G	N7-C5	-5.30	1.36	1.39
1	N	501	C	C3'-C2'	5.30	1.58	1.52
1	N	1522	U	C2-N3	5.30	1.41	1.37
1	N	474	G	C6-N1	5.30	1.43	1.39
1	N	576	C	O4'-C1'	5.30	1.48	1.41
1	N	912	C	N1-C6	5.30	1.40	1.37
1	N	1233	G	N3-C4	5.30	1.39	1.35
1	N	558	G	N3-C4	-5.30	1.31	1.35
1	N	1342	C	C2-O2	-5.30	1.19	1.24
1	N	609	A	N1-C2	5.29	1.39	1.34
1	N	1271	A	C8-N7	-5.29	1.27	1.31
1	N	1289	A	C2'-C1'	-5.29	1.47	1.53
1	N	475	C	N1-C6	5.29	1.40	1.37
1	N	1454	G	O3'-P	-5.29	1.54	1.61
1	N	385	C	N1-C6	-5.29	1.33	1.37
1	N	401	C	N1-C6	5.29	1.40	1.37
1	N	717	U	P-O5'	-5.29	1.54	1.59
1	N	736	C	C4-N4	5.29	1.38	1.33
1	N	288	A	P-O5'	-5.29	1.54	1.59
1	N	1120	C	C4-C5	5.29	1.47	1.43
1	N	1404	C	O3'-P	-5.29	1.54	1.61
1	N	278	G	C2'-C1'	-5.29	1.47	1.53
1	N	954	G	C2-N3	5.29	1.36	1.32
1	N	1029	U	P-O5'	-5.29	1.54	1.59
1	N	1163	A	C1'-N9	5.29	1.56	1.48
1	N	1254	A	C5-C4	5.29	1.42	1.38
1	N	191	G	N1-C2	5.29	1.42	1.37
1	N	746	A	C3'-O3'	5.29	1.49	1.42
1	N	1149	C	C4-N4	5.29	1.38	1.33
1	N	551	U	N3-C4	5.29	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	738	C	C2'-C1'	-5.29	1.47	1.53
1	N	917	G	C5'-C4'	5.29	1.57	1.51
1	N	1094	G	C2-N2	5.29	1.39	1.34
1	N	1327	C	C4-N4	5.29	1.38	1.33
1	N	359	G	C3'-C2'	-5.28	1.47	1.52
1	N	494	G	C3'-C2'	5.28	1.58	1.52
1	N	991	U	O4'-C1'	-5.28	1.34	1.41
1	N	323	U	N1-C2	-5.28	1.33	1.38
1	N	545	C	N3-C4	5.28	1.37	1.33
1	N	1174	G	C5'-C4'	5.28	1.57	1.51
1	N	181	A	P-O5'	-5.28	1.54	1.59
1	N	245	U	C4-C5	5.28	1.48	1.43
1	N	1126	U	P-O5'	-5.28	1.54	1.59
1	N	543	U	N1-C6	5.28	1.42	1.38
1	N	369	G	C5-C6	-5.28	1.37	1.42
1	N	865	A	C3'-C2'	5.28	1.58	1.52
1	N	1382	C	C4-C5	5.28	1.47	1.43
1	N	107	G	C6-N1	5.28	1.43	1.39
1	N	859	G	N1-C2	5.28	1.42	1.37
1	N	1028	C	C1'-N1	5.28	1.56	1.48
1	N	96	U	P-O5'	-5.27	1.54	1.59
1	N	374	A	C5-C4	-5.27	1.35	1.38
1	N	317	U	C1'-N1	5.27	1.56	1.48
1	N	409	U	C4-C5	-5.27	1.38	1.43
1	N	650	G	N9-C4	-5.27	1.33	1.38
1	N	1116	U	P-O5'	-5.27	1.54	1.59
1	N	1135	U	P-O5'	-5.27	1.54	1.59
1	N	1349	A	C6-N1	5.27	1.39	1.35
1	N	1527	U	C3'-O3'	5.27	1.49	1.42
1	N	192	A	C2'-C1'	-5.27	1.47	1.53
1	N	331	G	N1-C2	5.27	1.42	1.37
1	N	380	G	C5-C4	-5.27	1.34	1.38
1	N	481	G	P-O5'	5.27	1.65	1.59
1	N	708	C	N3-C4	5.27	1.37	1.33
1	N	748	G	C3'-O3'	5.27	1.49	1.42
1	N	945	G	C6-N1	5.27	1.43	1.39
1	N	69	G	N9-C8	-5.27	1.34	1.37
1	N	621	A	N3-C4	5.27	1.38	1.34
1	N	958	A	C1'-N9	-5.27	1.39	1.46
1	N	1105	A	N9-C8	5.27	1.42	1.37
1	N	1416	G	C5-C4	5.27	1.42	1.38
1	N	1475	G	N1-C2	5.27	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	198	G	C5-C6	-5.27	1.37	1.42
1	N	304	U	C3'-C2'	5.27	1.58	1.52
1	N	527	G	C5'-C4'	5.27	1.57	1.51
1	N	81	A	C4'-C3'	-5.26	1.47	1.52
1	N	94	G	N3-C4	-5.26	1.31	1.35
1	N	976	G	P-O5'	-5.26	1.54	1.59
1	N	1096	C	C4-N4	5.26	1.38	1.33
1	N	70	U	C2'-C1'	5.26	1.59	1.53
1	N	277	C	N1-C6	5.26	1.40	1.37
1	N	44	A	N9-C4	-5.26	1.34	1.37
1	N	459	A	C5-C6	-5.26	1.36	1.41
1	N	515	G	P-O5'	-5.26	1.54	1.59
1	N	184	G	N1-C2	5.26	1.42	1.37
1	N	246	A	N9-C4	5.26	1.41	1.37
1	N	392	C	C4-N4	5.26	1.38	1.33
1	N	13	U	C5'-C4'	5.26	1.57	1.51
1	N	56	U	C3'-O3'	5.26	1.49	1.42
1	N	265	G	C6-N1	5.26	1.43	1.39
1	N	105	G	N3-C4	-5.26	1.31	1.35
1	N	140	U	N1-C2	5.26	1.43	1.38
1	N	913	A	N1-C2	5.26	1.39	1.34
1	N	1341	U	C3'-O3'	5.26	1.49	1.42
1	N	710	G	N1-C2	5.25	1.42	1.37
1	N	739	C	C3'-C2'	-5.25	1.47	1.52
1	N	1034	G	P-O5'	5.25	1.65	1.59
1	N	1052	U	C5-C6	-5.25	1.29	1.34
1	N	494	G	C5-C4	5.25	1.42	1.38
1	N	872	A	C8-N7	-5.25	1.27	1.31
1	N	1059	C	C2'-C1'	-5.25	1.47	1.53
1	N	1374	A	C6-N6	5.25	1.38	1.33
1	N	46	G	N9-C8	-5.25	1.34	1.37
1	N	132	C	C5'-C4'	5.25	1.57	1.51
1	N	227	G	C6-O6	5.25	1.28	1.24
1	N	477	C	N3-C4	5.25	1.37	1.33
1	N	597	G	C5'-C4'	5.25	1.57	1.51
1	N	738	C	C4-N4	5.25	1.38	1.33
1	N	1015	G	N1-C2	5.25	1.42	1.37
1	N	1127	G	C5-C6	-5.25	1.37	1.42
1	N	143	A	C5-C4	5.25	1.42	1.38
1	N	159	G	C5'-C4'	5.25	1.57	1.51
1	N	679	C	C4'-C3'	-5.25	1.47	1.52
1	N	817	C	C5'-C4'	5.25	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	931	C	N3-C4	5.25	1.37	1.33
1	N	112	G	N1-C2	5.25	1.42	1.37
1	N	337	G	C5-C6	-5.25	1.37	1.42
1	N	388	G	N9-C4	-5.25	1.33	1.38
1	N	1041	G	N3-C4	-5.25	1.31	1.35
1	N	486	U	C5'-C4'	5.25	1.57	1.51
1	N	1403	C	P-O5'	-5.25	1.54	1.59
1	N	456	A	N1-C2	5.24	1.39	1.34
1	N	590	U	N1-C2	-5.24	1.33	1.38
1	N	782	A	C2'-C1'	-5.24	1.47	1.53
1	N	972	C	C4-N4	5.24	1.38	1.33
1	N	1089	G	C6-O6	5.24	1.28	1.24
1	N	1164	G	N3-C4	5.24	1.39	1.35
1	N	1224	U	O3'-P	-5.24	1.54	1.61
1	N	1234	C	C4'-O4'	5.24	1.52	1.45
1	N	1366	C	C4-C5	5.24	1.47	1.43
1	N	1385	G	C2'-C1'	5.24	1.59	1.53
1	N	1390	U	C1'-N1	5.24	1.56	1.48
1	N	770	C	N1-C6	-5.24	1.34	1.37
1	N	1023	U	C2-N3	5.24	1.41	1.37
1	N	670	G	C5-C4	5.24	1.42	1.38
1	N	901	A	P-O5'	5.24	1.65	1.59
1	N	1233	G	C2-N3	-5.24	1.28	1.32
1	N	1355	G	O3'-P	-5.24	1.54	1.61
1	N	87	C	C5'-C4'	-5.24	1.45	1.51
1	N	646	G	O3'-P	-5.24	1.54	1.61
1	N	760	G	N9-C4	5.24	1.42	1.38
1	N	1141	C	C3'-C2'	5.24	1.58	1.52
1	N	1198	G	C5'-C4'	5.24	1.57	1.51
1	N	601	G	N9-C8	5.24	1.41	1.37
1	N	965	U	P-O5'	-5.24	1.54	1.59
1	N	1036	A	C8-N7	5.24	1.35	1.31
1	N	1061	G	N1-C2	5.24	1.42	1.37
1	N	402	G	N9-C4	5.24	1.42	1.38
1	N	462	G	C5-C4	5.24	1.42	1.38
1	N	1404	C	N3-C4	5.24	1.37	1.33
1	N	379	C	C1'-N1	5.23	1.56	1.48
1	N	563	A	C3'-C2'	-5.23	1.47	1.52
1	N	1053	G	O3'-P	-5.23	1.54	1.61
1	N	105	G	N9-C8	5.23	1.41	1.37
1	N	531	U	C4-C5	5.23	1.48	1.43
1	N	1071	C	C1'-N1	5.23	1.56	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1092	A	C5-C6	5.23	1.45	1.41
1	N	1360	A	N9-C8	5.23	1.42	1.37
1	N	1478	U	C3'-O3'	5.23	1.49	1.42
1	N	415	A	C6-N1	5.23	1.39	1.35
1	N	1413	A	P-O5'	-5.23	1.54	1.59
1	N	420	U	O4'-C1'	5.23	1.48	1.41
1	N	484	G	C5-C6	-5.23	1.37	1.42
1	N	643	C	C4-N4	5.23	1.38	1.33
1	N	737	C	C1'-N1	5.23	1.56	1.48
1	N	996	A	C5'-C4'	5.23	1.57	1.51
1	N	1378	C	C4'-O4'	-5.23	1.38	1.45
1	N	223	A	C8-N7	-5.22	1.27	1.31
1	N	597	G	O3'-P	-5.22	1.54	1.61
1	N	633	G	C5-C4	-5.22	1.34	1.38
1	N	1208	C	C5'-C4'	5.22	1.57	1.51
1	N	1339	A	C6-N6	5.22	1.38	1.33
1	N	539	A	P-O5'	-5.22	1.54	1.59
1	N	557	G	C8-N7	-5.22	1.27	1.30
1	N	1104	G	C5'-C4'	5.22	1.57	1.51
1	N	1198	G	O3'-P	-5.22	1.54	1.61
1	N	1362	A	C3'-O3'	-5.22	1.34	1.42
1	N	1424	U	O3'-P	-5.22	1.54	1.61
1	N	319	G	C2-N2	5.22	1.39	1.34
1	N	373	A	N7-C5	-5.22	1.36	1.39
1	N	816	A	C5-C4	5.22	1.42	1.38
1	N	1250	A	C2'-C1'	5.22	1.59	1.53
1	N	422	C	N1-C6	5.22	1.40	1.37
1	N	807	A	N3-C4	5.22	1.38	1.34
1	N	814	A	C8-N7	-5.22	1.27	1.31
1	N	1104	G	N7-C5	5.22	1.42	1.39
1	N	1350	A	C5'-C4'	5.22	1.57	1.51
1	N	3	A	N7-C5	-5.22	1.36	1.39
1	N	160	A	C5'-C4'	5.22	1.57	1.51
1	N	556	C	N1-C2	5.22	1.45	1.40
1	N	983	A	C3'-C2'	5.22	1.58	1.52
1	N	1281	C	C2'-C1'	-5.22	1.47	1.53
1	N	580	C	C2-N3	5.21	1.40	1.35
1	N	1386	G	C2'-C1'	5.21	1.59	1.53
1	N	977	A	C5-C4	5.21	1.42	1.38
1	N	269	C	C4-N4	5.21	1.38	1.33
1	N	497	G	C5-C6	-5.21	1.37	1.42
1	N	727	G	C4'-C3'	5.21	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	700	G	N9-C4	-5.21	1.33	1.38
1	N	1253	G	O3'-P	5.21	1.67	1.61
1	N	1403	C	C2'-C1'	-5.21	1.47	1.53
1	N	286	C	C2-N3	5.21	1.40	1.35
1	N	149	A	C2-N3	-5.21	1.28	1.33
1	N	407	U	C2-N3	5.21	1.41	1.37
1	N	1042	A	O3'-P	-5.21	1.54	1.61
1	N	1302	C	C4-C5	5.21	1.47	1.43
1	N	240	G	C6-N1	5.21	1.43	1.39
1	N	305	G	P-O5'	-5.20	1.54	1.59
1	N	511	C	O3'-P	-5.20	1.54	1.61
1	N	528	C	C5-C6	5.20	1.38	1.34
1	N	614	C	C4-N4	5.20	1.38	1.33
1	N	676	A	N7-C5	-5.20	1.36	1.39
1	N	679	C	O3'-P	-5.20	1.54	1.61
1	N	1303	C	C4-C5	-5.20	1.38	1.43
1	N	1480	A	C5-C4	5.20	1.42	1.38
1	N	1499	A	P-O5'	5.20	1.65	1.59
1	N	24	U	N1-C2	5.20	1.43	1.38
1	N	1246	A	C3'-C2'	-5.20	1.47	1.52
1	N	1341	U	C5'-C4'	5.20	1.57	1.51
1	N	1374	A	C3'-O3'	-5.20	1.34	1.42
1	N	398	U	C2-O2	5.20	1.27	1.22
1	N	450	G	P-O5'	-5.20	1.54	1.59
1	N	1088	G	C5-C4	5.20	1.42	1.38
1	N	28	A	N7-C5	-5.20	1.36	1.39
1	N	86	G	C5-C4	-5.20	1.34	1.38
1	N	103	U	C2-N3	5.20	1.41	1.37
1	N	330	C	N3-C4	5.20	1.37	1.33
1	N	617	G	N9-C8	-5.20	1.34	1.37
1	N	1397	C	C4'-O4'	-5.20	1.38	1.45
1	N	1003	G	C8-N7	5.20	1.34	1.30
1	N	101	A	C6-N6	5.20	1.38	1.33
1	N	195	A	C4'-O4'	-5.20	1.38	1.45
1	N	490	C	C4'-O4'	-5.20	1.38	1.45
1	N	688	G	C6-N1	5.20	1.43	1.39
1	N	112	G	N7-C5	5.19	1.42	1.39
1	N	505	G	C5-C6	-5.19	1.37	1.42
1	N	648	A	C5'-C4'	5.19	1.57	1.51
1	N	1066	C	C1'-N1	5.19	1.56	1.48
1	N	1340	A	N9-C8	5.19	1.42	1.37
1	N	744	C	C5-C6	-5.19	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	951	G	P-O5'	-5.19	1.54	1.59
1	N	1128	C	C1'-N1	5.19	1.56	1.48
1	N	1290	G	N3-C4	5.19	1.39	1.35
1	N	181	A	N7-C5	5.19	1.42	1.39
1	N	248	C	C4-N4	5.19	1.38	1.33
1	N	880	C	N3-C4	5.19	1.37	1.33
1	N	1500	A	C8-N7	-5.19	1.27	1.31
1	N	1181	G	C5-C4	-5.19	1.34	1.38
1	N	279	A	C6-N6	5.18	1.38	1.33
1	N	763	G	N1-C2	-5.18	1.33	1.37
1	N	833	G	C4'-C3'	5.18	1.58	1.53
1	N	913	A	O4'-C1'	5.18	1.48	1.41
1	N	128	G	C6-O6	5.18	1.28	1.24
1	N	352	C	C2-O2	5.18	1.29	1.24
1	N	559	A	N9-C4	5.18	1.41	1.37
1	N	673	A	C8-N7	-5.18	1.27	1.31
1	N	1200	C	C1'-N1	5.18	1.56	1.48
1	N	731	G	C2-N3	5.18	1.36	1.32
1	N	864	A	C6-N1	5.18	1.39	1.35
1	N	1087	G	C3'-C2'	5.18	1.58	1.52
1	N	1306	A	N9-C4	-5.18	1.34	1.37
1	N	355	C	N3-C4	5.18	1.37	1.33
1	N	21	G	O3'-P	-5.18	1.54	1.61
1	N	280	C	C3'-C2'	-5.17	1.47	1.52
1	N	283	U	C3'-O3'	5.17	1.49	1.42
1	N	496	A	C2-N3	5.17	1.38	1.33
1	N	569	C	C4-C5	-5.17	1.38	1.43
1	N	612	C	C2'-C1'	-5.17	1.47	1.53
1	N	1133	G	N3-C4	-5.17	1.31	1.35
1	N	1107	C	C2-O2	5.17	1.29	1.24
1	N	441	A	C2-N3	-5.17	1.28	1.33
1	N	1296	C	P-O5'	-5.17	1.54	1.59
1	N	183	C	C2'-O2'	-5.17	1.34	1.41
1	N	270	A	N7-C5	-5.17	1.36	1.39
1	N	451	A	C5'-C4'	5.17	1.57	1.51
1	N	68	G	P-O5'	-5.17	1.54	1.59
1	N	419	C	C4-C5	-5.17	1.38	1.43
1	N	895	G	C1'-N9	5.17	1.56	1.48
1	N	252	U	C4-C5	5.17	1.48	1.43
1	N	309	A	N7-C5	5.17	1.42	1.39
1	N	1131	G	N7-C5	-5.17	1.36	1.39
1	N	1186	G	C4'-C3'	5.17	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	107	G	C2'-C1'	-5.17	1.47	1.53
1	N	220	G	N1-C2	5.17	1.41	1.37
1	N	1338	G	C2-N2	5.17	1.39	1.34
1	N	799	G	C5-C4	-5.16	1.34	1.38
1	N	883	C	C2-O2	-5.16	1.19	1.24
1	N	1422	G	C2'-C1'	-5.16	1.47	1.53
1	N	1533	C	N3-C4	5.16	1.37	1.33
1	N	47	C	N1-C6	5.16	1.40	1.37
1	N	736	C	O4'-C1'	5.16	1.48	1.41
1	N	276	G	C2-N2	5.16	1.39	1.34
1	N	342	C	C3'-O3'	5.16	1.49	1.42
1	N	425	G	C5'-C4'	5.16	1.57	1.51
1	N	435	A	C8-N7	-5.16	1.27	1.31
1	N	1430	A	N7-C5	-5.16	1.36	1.39
1	N	174	A	N9-C8	5.16	1.41	1.37
1	N	416	G	O4'-C1'	5.16	1.48	1.41
1	N	1372	U	C2-N3	5.16	1.41	1.37
1	N	1296	C	C4'-C3'	5.16	1.58	1.53
1	N	1357	A	N7-C5	-5.16	1.36	1.39
1	N	747	A	C5'-C4'	5.15	1.57	1.51
1	N	1081	A	C2'-C1'	-5.15	1.47	1.53
1	N	1264	U	C3'-C2'	-5.15	1.47	1.52
1	N	63	C	C4-C5	-5.15	1.38	1.43
1	N	112	G	C5'-C4'	5.15	1.57	1.51
1	N	658	C	C4-N4	5.15	1.38	1.33
1	N	1356	G	N3-C4	5.15	1.39	1.35
1	N	82	G	C8-N7	-5.15	1.27	1.30
1	N	802	A	C1'-N9	5.15	1.56	1.48
1	N	373	A	N9-C4	-5.15	1.34	1.37
1	N	826	C	C4-N4	5.15	1.38	1.33
1	N	205	A	N7-C5	-5.15	1.36	1.39
1	N	338	A	C6-N1	-5.15	1.31	1.35
1	N	999	C	C3'-C2'	-5.15	1.47	1.52
1	N	1014	A	N9-C4	5.15	1.41	1.37
1	N	1418	A	C6-N6	5.15	1.38	1.33
1	N	102	G	C2-N3	5.14	1.36	1.32
1	N	555	U	C3'-C2'	5.14	1.58	1.52
1	N	631	C	C4-C5	5.14	1.47	1.43
1	N	1147	C	O3'-P	-5.14	1.54	1.61
1	N	380	G	C6-N1	5.14	1.43	1.39
1	N	579	A	C4'-O4'	5.14	1.52	1.45
1	N	1264	U	C2-N3	5.14	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1329	A	C8-N7	-5.14	1.27	1.31
1	N	1346	A	C5-C4	5.14	1.42	1.38
1	N	17	U	C2-N3	5.14	1.41	1.37
1	N	994	A	C5-C6	-5.14	1.36	1.41
1	N	1361	G	O3'-P	-5.14	1.54	1.61
1	N	420	U	C4'-C3'	5.14	1.58	1.53
1	N	461	A	C6-N1	5.14	1.39	1.35
1	N	491	G	N1-C2	5.14	1.41	1.37
1	N	506	G	N9-C4	-5.14	1.33	1.38
1	N	633	G	C5'-C4'	5.14	1.57	1.51
1	N	1139	G	C5-C4	5.14	1.42	1.38
1	N	1212	U	C3'-C2'	5.14	1.58	1.52
1	N	580	C	P-O5'	-5.14	1.54	1.59
1	N	1459	G	C5'-C4'	5.14	1.57	1.51
1	N	660	C	C3'-O3'	5.14	1.49	1.42
1	N	705	G	C5-C4	5.14	1.42	1.38
1	N	1214	C	C5'-C4'	5.14	1.57	1.51
1	N	1305	G	C6-N1	5.14	1.43	1.39
1	N	51	A	C5'-C4'	5.13	1.57	1.51
1	N	995	C	C1'-N1	5.13	1.56	1.48
1	N	1269	A	C6-N1	5.13	1.39	1.35
1	N	944	G	C5-C6	-5.13	1.37	1.42
1	N	341	C	C4-C5	5.13	1.47	1.43
1	N	344	A	N9-C4	-5.13	1.34	1.37
1	N	432	A	C6-N1	-5.13	1.31	1.35
1	N	759	A	C2-N3	5.13	1.38	1.33
1	N	1161	C	P-O5'	-5.13	1.54	1.59
1	N	1314	C	N1-C2	5.13	1.45	1.40
1	N	212	G	C4'-C3'	-5.13	1.47	1.52
1	N	607	A	C2'-C1'	5.13	1.58	1.53
1	N	838	G	C6-O6	5.13	1.28	1.24
1	N	1220	G	N9-C8	-5.13	1.34	1.37
1	N	1398	A	O4'-C1'	5.13	1.48	1.41
1	N	412	A	C6-N6	5.13	1.38	1.33
1	N	916	U	C2'-O2'	5.13	1.48	1.41
1	N	201	G	C5-C6	-5.12	1.37	1.42
1	N	1509	C	C4'-C3'	5.12	1.58	1.53
1	N	683	G	C5'-C4'	-5.12	1.45	1.51
1	N	1027	C	C4'-C3'	5.12	1.58	1.53
1	N	1206	G	N9-C4	-5.12	1.33	1.38
1	N	1383	C	C1'-N1	5.12	1.56	1.48
1	N	69	G	N7-C5	-5.12	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	96	U	C2-N3	5.12	1.41	1.37
1	N	358	U	C2-N3	5.12	1.41	1.37
1	N	1058	G	C4'-C3'	5.12	1.58	1.53
1	N	1070	U	C2-O2	5.12	1.26	1.22
1	N	220	G	C4'-C3'	-5.12	1.47	1.52
1	N	629	A	C6-N6	5.12	1.38	1.33
1	N	1019	A	C3'-C2'	5.12	1.58	1.52
1	N	1453	G	C3'-C2'	5.12	1.58	1.52
1	N	126	G	C5-C6	-5.12	1.37	1.42
1	N	149	A	N9-C4	5.12	1.41	1.37
1	N	350	G	N9-C8	5.12	1.41	1.37
1	N	389	A	N9-C4	5.12	1.41	1.37
1	N	1004	A	O3'-P	-5.12	1.55	1.61
1	N	1304	G	P-O5'	-5.12	1.54	1.59
1	N	1364	U	C2-O2	5.12	1.26	1.22
1	N	131	A	O4'-C1'	-5.12	1.34	1.41
1	N	376	G	C4'-C3'	-5.12	1.47	1.52
1	N	383	A	O4'-C1'	5.12	1.48	1.41
1	N	389	A	C2'-C1'	-5.12	1.47	1.53
1	N	775	G	P-O5'	-5.12	1.54	1.59
1	N	958	A	C2-N3	5.12	1.38	1.33
1	N	1058	G	C2-N2	5.12	1.39	1.34
1	N	1111	A	C6-N1	5.12	1.39	1.35
1	N	1410	A	C4'-C3'	5.12	1.58	1.53
1	N	1449	C	O3'-P	5.12	1.67	1.61
1	N	351	G	O3'-P	-5.11	1.55	1.61
1	N	351	G	C5-C6	-5.11	1.37	1.42
1	N	785	G	C5'-C4'	5.11	1.57	1.51
1	N	1533	C	C3'-C2'	5.11	1.58	1.52
1	N	1021	A	C6-N6	5.11	1.38	1.33
1	N	1247	U	O3'-P	-5.11	1.55	1.61
1	N	1414	U	C2'-C1'	5.11	1.58	1.53
1	N	1036	A	C5'-C4'	5.11	1.57	1.51
1	N	1428	A	N3-C4	5.11	1.38	1.34
1	N	1495	U	P-O5'	-5.11	1.54	1.59
1	N	136	C	C2-N3	-5.11	1.31	1.35
1	N	276	G	C5-C6	-5.11	1.37	1.42
1	N	289	G	N9-C4	-5.11	1.33	1.38
1	N	629	A	N9-C4	-5.11	1.34	1.37
1	N	785	G	N9-C4	-5.11	1.33	1.38
1	N	116	A	C6-N1	5.11	1.39	1.35
1	N	498	A	N1-C2	-5.11	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	900	A	C1'-N9	5.11	1.56	1.48
1	N	1093	A	C4'-C3'	-5.11	1.47	1.52
1	N	80	A	C6-N6	5.10	1.38	1.33
1	N	280	C	C5'-C4'	5.10	1.57	1.51
1	N	688	G	C2-N2	5.10	1.39	1.34
1	N	1063	C	C4'-C3'	-5.10	1.47	1.52
1	N	378	G	O3'-P	-5.10	1.55	1.61
1	N	852	G	N3-C4	5.10	1.39	1.35
1	N	1336	C	C4'-C3'	5.10	1.58	1.53
1	N	617	G	C5'-C4'	5.10	1.57	1.51
1	N	828	U	C1'-N1	5.10	1.56	1.48
1	N	875	U	N3-C4	5.10	1.43	1.38
1	N	1064	G	C5'-C4'	5.10	1.57	1.51
1	N	61	G	N7-C5	-5.10	1.36	1.39
1	N	288	A	C5-C6	-5.10	1.36	1.41
1	N	864	A	C5-C6	5.10	1.45	1.41
1	N	896	C	C1'-N1	5.10	1.56	1.48
1	N	1392	G	O3'-P	-5.10	1.55	1.61
1	N	825	A	P-O5'	-5.10	1.54	1.59
1	N	851	G	C2-N2	5.10	1.39	1.34
1	N	1081	A	C3'-C2'	5.10	1.58	1.52
1	N	642	A	O4'-C1'	5.10	1.48	1.41
1	N	816	A	N9-C8	5.10	1.41	1.37
1	N	935	A	N9-C4	-5.10	1.34	1.37
1	N	1430	A	C8-N7	-5.10	1.27	1.31
1	N	123	U	C2-N3	5.09	1.41	1.37
1	N	655	A	N3-C4	5.09	1.38	1.34
1	N	1005	A	C5'-C4'	-5.09	1.45	1.51
1	N	1518	A	C2'-C1'	-5.09	1.47	1.53
1	N	46	G	C2-N3	5.09	1.36	1.32
1	N	414	A	C3'-C2'	5.09	1.58	1.52
1	N	761	G	C5-C4	5.09	1.42	1.38
1	N	1002	G	N9-C4	-5.09	1.33	1.38
1	N	293	G	N3-C4	-5.09	1.31	1.35
1	N	1211	U	N1-C6	-5.09	1.33	1.38
1	N	1388	C	O3'-P	-5.09	1.55	1.61
1	N	1454	G	C5-C4	5.09	1.42	1.38
1	N	680	C	C1'-N1	5.09	1.56	1.48
1	N	1373	G	O3'-P	-5.09	1.55	1.61
1	N	115	G	P-O5'	-5.09	1.54	1.59
1	N	1187	G	P-O5'	5.09	1.64	1.59
1	N	1246	A	N7-C5	-5.09	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1521	C	C4'-C3'	-5.09	1.47	1.52
1	N	489	C	N1-C6	5.09	1.40	1.37
1	N	698	G	N3-C4	5.09	1.39	1.35
1	N	913	A	C4'-C3'	5.09	1.58	1.53
1	N	950	U	N3-C4	5.09	1.43	1.38
1	N	984	C	N1-C6	5.09	1.40	1.37
1	N	1027	C	N1-C6	5.09	1.40	1.37
1	N	1193	G	C2-N3	5.09	1.36	1.32
1	N	1456	A	C5-C4	5.09	1.42	1.38
1	N	691	G	C6-N1	5.08	1.43	1.39
1	N	1292	G	C3'-O3'	5.08	1.49	1.42
1	N	266	G	N1-C2	5.08	1.41	1.37
1	N	367	U	N3-C4	-5.08	1.33	1.38
1	N	520	A	C5-C4	5.08	1.42	1.38
1	N	1310	G	C4'-O4'	-5.08	1.39	1.45
1	N	1534	A	C2-N3	5.08	1.38	1.33
1	N	1059	C	C3'-O3'	5.08	1.49	1.42
1	N	1418	A	N9-C4	5.08	1.40	1.37
1	N	224	U	C4'-C3'	5.08	1.58	1.53
1	N	852	G	C3'-C2'	5.08	1.58	1.52
1	N	1278	G	C8-N7	-5.08	1.27	1.30
1	N	239	U	C4-C5	5.08	1.48	1.43
1	N	794	A	C4'-O4'	5.08	1.52	1.45
1	N	1026	G	N9-C4	-5.08	1.33	1.38
1	N	1067	A	C2'-C1'	-5.08	1.47	1.53
1	N	1099	G	C2-N2	5.08	1.39	1.34
1	N	1462	C	C5'-C4'	5.08	1.57	1.51
1	N	493	A	O4'-C1'	-5.08	1.35	1.41
1	N	1085	U	C4-C5	-5.08	1.39	1.43
1	N	155	A	N7-C5	-5.08	1.36	1.39
1	N	492	C	C4-C5	5.08	1.47	1.43
1	N	567	G	C3'-C2'	5.08	1.58	1.52
1	N	635	A	C5-C4	5.08	1.42	1.38
1	N	655	A	C6-N1	5.08	1.39	1.35
1	N	790	A	C4'-O4'	-5.08	1.39	1.45
1	N	1240	U	O4'-C1'	5.08	1.48	1.41
1	N	1488	G	C5'-C4'	-5.08	1.45	1.51
1	N	514	C	P-O5'	-5.07	1.54	1.59
1	N	831	A	N9-C8	5.07	1.41	1.37
1	N	1409	C	C2-N3	5.07	1.39	1.35
1	N	897	C	C2-N3	-5.07	1.31	1.35
1	N	1109	C	C2-O2	5.07	1.29	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	85	U	N1-C6	-5.07	1.33	1.38
1	N	382	A	C3'-O3'	5.07	1.49	1.42
1	N	502	A	C5'-C4'	-5.07	1.45	1.51
1	N	631	C	N1-C2	5.07	1.45	1.40
1	N	1130	A	C4'-C3'	5.07	1.58	1.53
1	N	1496	C	C3'-C2'	5.07	1.58	1.52
1	N	54	C	C4'-O4'	5.07	1.52	1.45
1	N	152	A	N9-C8	5.07	1.41	1.37
1	N	665	A	C2-N3	5.07	1.38	1.33
1	N	1410	A	N7-C5	-5.07	1.36	1.39
1	N	56	U	C4'-C3'	-5.07	1.47	1.52
1	N	716	A	C6-N6	5.07	1.38	1.33
1	N	968	A	O4'-C1'	-5.07	1.35	1.41
1	N	1051	C	C4-N4	5.07	1.38	1.33
1	N	38	G	N9-C8	-5.07	1.34	1.37
1	N	122	G	O4'-C1'	5.07	1.48	1.41
1	N	143	A	O3'-P	-5.07	1.55	1.61
1	N	406	G	C4'-C3'	5.07	1.58	1.53
1	N	743	A	C5-C6	-5.07	1.36	1.41
1	N	761	G	N1-C2	5.07	1.41	1.37
1	N	1342	C	C4-N4	5.07	1.38	1.33
1	N	1411	C	P-O5'	-5.07	1.54	1.59
1	N	704	A	N3-C4	-5.06	1.31	1.34
1	N	1213	A	C3'-O3'	5.06	1.49	1.42
1	N	1384	C	N3-C4	5.06	1.37	1.33
1	N	734	G	N7-C5	-5.06	1.36	1.39
1	N	187	G	C3'-O3'	5.06	1.49	1.42
1	N	828	U	O4'-C1'	5.06	1.48	1.41
1	N	102	G	N9-C4	-5.06	1.33	1.38
1	N	133	U	C5'-C4'	5.06	1.57	1.51
1	N	300	A	C3'-C2'	-5.06	1.47	1.52
1	N	419	C	C2'-C1'	-5.06	1.47	1.53
1	N	616	G	O4'-C1'	-5.06	1.35	1.41
1	N	1053	G	N1-C2	5.06	1.41	1.37
1	N	1259	C	C4-N4	5.06	1.38	1.33
1	N	1274	A	C5'-C4'	5.06	1.57	1.51
1	N	1060	U	C5'-C4'	5.06	1.57	1.51
1	N	1400	C	C4-N4	5.06	1.38	1.33
1	N	1529	G	C2'-O2'	-5.06	1.35	1.41
1	N	397	A	C4'-C3'	5.06	1.58	1.53
1	N	496	A	N3-C4	5.06	1.37	1.34
1	N	738	C	C2-O2	-5.06	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	771	G	C2'-C1'	-5.06	1.47	1.53
1	N	1068	G	N9-C8	5.06	1.41	1.37
1	N	18	C	C4-N4	5.05	1.38	1.33
1	N	19	A	C3'-C2'	-5.05	1.47	1.52
1	N	158	G	O4'-C1'	-5.05	1.35	1.41
1	N	247	G	C8-N7	5.05	1.33	1.30
1	N	548	G	O4'-C1'	-5.05	1.35	1.41
1	N	569	C	N1-C6	5.05	1.40	1.37
1	N	663	A	N9-C8	5.05	1.41	1.37
1	N	874	G	C5-C6	-5.05	1.37	1.42
1	N	930	C	O5'-C5'	5.05	1.52	1.44
1	N	1353	G	N7-C5	-5.05	1.36	1.39
1	N	1412	C	C4-N4	5.05	1.38	1.33
1	N	282	A	C5-C6	5.05	1.45	1.41
1	N	398	U	N1-C2	5.05	1.43	1.38
1	N	735	C	N1-C6	5.05	1.40	1.37
1	N	752	G	C2'-C1'	-5.05	1.47	1.53
1	N	1181	G	N1-C2	5.05	1.41	1.37
1	N	1279	G	C4'-C3'	5.05	1.58	1.53
1	N	1329	A	N9-C8	5.05	1.41	1.37
1	N	1502	A	C5'-C4'	5.05	1.57	1.51
1	N	334	C	C4'-C3'	5.05	1.58	1.53
1	N	499	A	C3'-O3'	5.05	1.49	1.42
1	N	653	U	C4-O4	5.05	1.27	1.23
1	N	738	C	C5'-C4'	-5.05	1.45	1.51
1	N	1104	G	C8-N7	-5.05	1.27	1.30
1	N	324	G	C4'-C3'	-5.05	1.47	1.52
1	N	244	U	C2-O2	5.05	1.26	1.22
1	N	790	A	C5-C6	-5.05	1.36	1.41
1	N	792	A	P-O5'	-5.05	1.54	1.59
1	N	935	A	C5-C4	5.05	1.42	1.38
1	N	1156	G	C2-N2	5.05	1.39	1.34
1	N	1308	U	P-O5'	5.05	1.64	1.59
1	N	1486	G	C8-N7	5.05	1.33	1.30
1	N	987	G	C6-N1	5.04	1.43	1.39
1	N	1429	A	C3'-C2'	5.04	1.58	1.52
1	N	164	G	C2'-C1'	-5.04	1.47	1.53
1	N	489	C	C2'-C1'	-5.04	1.47	1.53
1	N	667	G	N3-C4	5.04	1.39	1.35
1	N	1294	G	C5-C6	-5.04	1.37	1.42
1	N	2	A	N9-C8	5.04	1.41	1.37
1	N	91	U	C1'-N1	5.04	1.56	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	357	G	C3'-C2'	-5.04	1.47	1.52
1	N	945	G	C2'-C1'	5.04	1.58	1.53
1	N	1062	U	C5-C6	5.04	1.38	1.34
1	N	1270	G	C6-N1	5.04	1.43	1.39
1	N	1462	C	P-O5'	-5.04	1.54	1.59
1	N	609	A	O3'-P	5.04	1.67	1.61
1	N	76	G	C2-N2	5.04	1.39	1.34
1	N	380	G	C5-C6	-5.04	1.37	1.42
1	N	802	A	C2'-C1'	-5.04	1.47	1.53
1	N	923	A	P-O5'	-5.04	1.54	1.59
1	N	944	G	C4'-C3'	-5.04	1.47	1.52
1	N	1147	C	P-O5'	-5.04	1.54	1.59
1	N	155	A	C4'-O4'	5.04	1.52	1.45
1	N	239	U	N3-C4	5.04	1.43	1.38
1	N	520	A	C2'-C1'	-5.04	1.47	1.53
1	N	917	G	N3-C4	-5.04	1.31	1.35
1	N	703	G	C2'-C1'	-5.04	1.47	1.53
1	N	1085	U	C1'-N1	5.04	1.56	1.48
1	N	1458	G	C5-C6	-5.04	1.37	1.42
1	N	232	G	C2-N3	5.03	1.36	1.32
1	N	479	U	C2'-C1'	-5.03	1.47	1.53
1	N	491	G	C3'-C2'	-5.03	1.47	1.52
1	N	913	A	O3'-P	-5.03	1.55	1.61
1	N	952	U	O4'-C1'	5.03	1.48	1.41
1	N	1298	U	C4'-O4'	5.03	1.52	1.45
1	N	1331	G	C2-N2	5.03	1.39	1.34
1	N	749	A	C5-C6	5.03	1.45	1.41
1	N	778	G	N7-C5	-5.03	1.36	1.39
1	N	553	A	C5-C6	-5.03	1.36	1.41
1	N	265	G	C4'-O4'	5.03	1.52	1.45
1	N	447	G	N9-C4	-5.03	1.33	1.38
1	N	612	C	C4'-O4'	-5.03	1.39	1.45
1	N	1033	G	C5'-C4'	5.03	1.57	1.51
1	N	1271	A	C6-N6	5.03	1.38	1.33
1	N	315	A	N9-C8	5.03	1.41	1.37
1	N	401	C	C3'-C2'	-5.03	1.47	1.52
1	N	417	G	N7-C5	-5.03	1.36	1.39
1	N	511	C	P-O5'	-5.03	1.54	1.59
1	N	856	C	N1-C6	5.03	1.40	1.37
1	N	874	G	N1-C2	5.03	1.41	1.37
1	N	1253	G	C2-N2	5.03	1.39	1.34
1	N	1311	A	N9-C8	5.03	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	199	A	C2'-O2'	-5.02	1.35	1.41
1	N	543	U	C4'-O4'	5.02	1.52	1.45
1	N	909	A	C6-N6	5.02	1.38	1.33
1	N	1263	C	N3-C4	5.02	1.37	1.33
1	N	829	G	N9-C4	-5.02	1.33	1.38
1	N	891	U	C5'-C4'	5.02	1.57	1.51
1	N	1183	U	C2'-C1'	-5.02	1.47	1.53
1	N	1379	G	N1-C2	5.02	1.41	1.37
1	N	633	G	C1'-N9	5.02	1.56	1.48
1	N	734	G	C5'-C4'	5.02	1.57	1.51
1	N	896	C	C4-N4	5.02	1.38	1.33
1	N	152	A	N7-C5	5.02	1.42	1.39
1	N	273	U	C3'-C2'	5.02	1.58	1.52
1	N	772	U	P-O5'	-5.02	1.54	1.59
1	N	1515	G	N1-C2	5.02	1.41	1.37
1	N	103	U	C3'-C2'	-5.02	1.47	1.52
1	N	341	C	C1'-N1	5.02	1.56	1.48
1	N	360	G	P-O5'	-5.02	1.54	1.59
1	N	397	A	N9-C4	5.02	1.40	1.37
1	N	247	G	C3'-C2'	-5.02	1.47	1.52
1	N	900	A	C4'-C3'	-5.02	1.47	1.52
1	N	906	A	C2'-C1'	-5.02	1.47	1.53
1	N	1081	A	N1-C2	-5.02	1.29	1.34
1	N	1491	G	N9-C4	-5.02	1.33	1.38
1	N	310	G	C2-N2	5.01	1.39	1.34
1	N	852	G	C2-N2	5.01	1.39	1.34
1	N	1232	U	C5-C6	5.01	1.38	1.34
1	N	1276	G	N9-C8	5.01	1.41	1.37
1	N	1326	U	C2'-C1'	-5.01	1.47	1.53
1	N	23	C	N1-C6	5.01	1.40	1.37
1	N	286	C	C5-C6	-5.01	1.30	1.34
1	N	337	G	C2-N3	5.01	1.36	1.32
1	N	1222	G	N1-C2	5.01	1.41	1.37
1	N	75	G	C5-C4	5.01	1.41	1.38
1	N	170	U	C4'-O4'	5.01	1.52	1.45
1	N	263	A	C6-N6	5.01	1.38	1.33
1	N	320	A	C8-N7	-5.01	1.28	1.31
1	N	863	U	C3'-C2'	-5.01	1.47	1.52
1	N	1366	C	C4'-O4'	5.01	1.52	1.45
1	N	1534	A	C6-N6	5.01	1.38	1.33
1	N	162	A	O4'-C1'	5.01	1.48	1.41
1	N	255	G	O4'-C1'	5.01	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	440	C	C4-C5	5.01	1.47	1.43
1	N	527	G	C5-C4	5.01	1.41	1.38
1	N	738	C	N3-C4	5.01	1.37	1.33
1	N	871	U	N3-C4	5.01	1.43	1.38
1	N	99	C	C2-N3	-5.00	1.31	1.35
1	N	275	G	C1'-N9	5.00	1.56	1.48
1	N	707	U	C5-C6	-5.00	1.29	1.34
1	N	755	G	N9-C4	5.00	1.42	1.38
1	N	1127	G	C6-N1	5.00	1.43	1.39
1	N	1139	G	O4'-C1'	-5.00	1.35	1.41
1	N	1271	A	C4'-C3'	5.00	1.58	1.53
1	N	1421	G	C2-N2	5.00	1.39	1.34
1	N	77	A	N7-C5	-5.00	1.36	1.39
1	N	111	G	O3'-P	-5.00	1.55	1.61
1	N	183	C	P-O5'	5.00	1.64	1.59
1	N	689	C	C2'-C1'	-5.00	1.47	1.53
1	N	1153	G	C2'-C1'	-5.00	1.47	1.53
1	N	1277	C	N3-C4	5.00	1.37	1.33
1	N	1375	A	N1-C2	5.00	1.38	1.34

All (9667) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1225	A	N1-C6-N6	28.69	135.81	118.60
1	N	438	U	P-O3'-C3'	28.20	153.54	119.70
1	N	1130	A	N1-C6-N6	26.64	134.58	118.60
1	N	889	A	N1-C6-N6	25.22	133.73	118.60
1	N	748	G	N1-C6-O6	25.02	134.91	119.90
1	N	1185	G	N1-C6-O6	24.87	134.82	119.90
1	N	336	A	N1-C6-N6	24.83	133.50	118.60
1	N	1491	G	N1-C6-O6	24.58	134.65	119.90
1	N	572	A	N1-C6-N6	24.54	133.32	118.60
1	N	728	A	N1-C6-N6	24.12	133.07	118.60
1	N	642	A	N1-C6-N6	24.07	133.04	118.60
1	N	1216	A	N1-C6-N6	23.86	132.91	118.60
1	N	94	G	P-O3'-C3'	23.09	147.41	119.70
1	N	292	G	N1-C6-O6	23.05	133.73	119.90
1	N	975	A	N1-C6-N6	22.42	132.05	118.60
1	N	373	A	N1-C6-N6	22.09	131.86	118.60
1	N	547	A	P-O3'-C3'	22.06	146.17	119.70
1	N	555	U	P-O3'-C3'	22.05	146.16	119.70
1	N	1409	C	N3-C4-C5	-22.03	113.09	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	560	A	C8-N9-C4	-22.01	97.00	105.80
1	N	1016	A	N1-C6-N6	21.97	131.78	118.60
1	N	160	A	N1-C6-N6	21.97	131.78	118.60
1	N	601	G	N1-C6-O6	21.97	133.08	119.90
1	N	1185	G	C5-C6-O6	-21.69	115.58	128.60
1	N	47	C	P-O3'-C3'	21.29	145.24	119.70
1	N	760	G	N1-C6-O6	21.12	132.57	119.90
1	N	1519	A	N1-C6-N6	21.11	131.26	118.60
1	N	500	G	N1-C6-O6	21.06	132.54	119.90
1	N	529	G	N1-C6-O6	21.01	132.50	119.90
1	N	394	G	N1-C6-O6	20.98	132.49	119.90
1	N	172	A	P-O3'-C3'	20.89	144.77	119.70
1	N	1163	A	N1-C6-N6	20.84	131.11	118.60
1	N	1228	C	C6-N1-C2	-20.72	112.01	120.30
1	N	484	G	P-O3'-C3'	20.69	144.53	119.70
1	N	563	A	N1-C6-N6	20.67	131.00	118.60
1	N	1240	U	C6-N1-C2	-20.60	108.64	121.00
1	N	51	A	P-O3'-C3'	20.58	144.40	119.70
1	N	327	A	N1-C6-N6	20.58	130.95	118.60
1	N	1206	G	N1-C6-O6	20.57	132.24	119.90
1	N	664	G	N1-C6-O6	20.47	132.18	119.90
1	N	959	A	N1-C6-N6	20.43	130.86	118.60
1	N	532	A	N1-C6-N6	20.40	130.84	118.60
1	N	108	G	N1-C6-O6	20.40	132.14	119.90
1	N	1042	A	N1-C6-N6	20.31	130.78	118.60
1	N	374	A	N1-C6-N6	20.22	130.73	118.60
1	N	1449	C	N3-C4-C5	-20.18	113.83	121.90
1	N	1431	A	N1-C6-N6	20.13	130.68	118.60
1	N	135	C	N3-C4-C5	-20.12	113.85	121.90
1	N	1362	A	P-O3'-C3'	20.11	143.83	119.70
1	N	745	G	N1-C6-O6	20.05	131.93	119.90
1	N	139	A	C5-C6-N1	-20.01	107.69	117.70
1	N	402	G	C5-C6-O6	-20.01	116.59	128.60
1	N	80	A	N1-C6-N6	19.91	130.54	118.60
1	N	1306	A	N1-C6-N6	19.74	130.44	118.60
1	N	1255	G	N1-C6-O6	19.73	131.74	119.90
1	N	1309	G	N1-C6-O6	19.71	131.72	119.90
1	N	954	G	N1-C6-O6	19.69	131.72	119.90
1	N	633	G	C5-C6-O6	-19.61	116.84	128.60
1	N	460	A	N1-C6-N6	19.58	130.35	118.60
1	N	694	A	N1-C6-N6	19.50	130.30	118.60
1	N	262	A	N1-C6-N6	19.37	130.22	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	579	A	N1-C6-N6	19.35	130.21	118.60
1	N	396	C	N3-C4-C5	-19.35	114.16	121.90
1	N	1428	A	N1-C6-N6	19.29	130.17	118.60
1	N	1504	G	N1-C6-O6	19.25	131.45	119.90
1	N	270	A	N1-C6-N6	19.22	130.13	118.60
1	N	872	A	N1-C6-N6	19.20	130.12	118.60
1	N	630	A	N1-C6-N6	19.20	130.12	118.60
1	N	991	U	P-O3'-C3'	19.17	142.71	119.70
1	N	832	G	N1-C6-O6	19.12	131.37	119.90
1	N	1439	G	C5-C6-O6	-19.08	117.15	128.60
1	N	1375	A	N1-C6-N6	19.06	130.04	118.60
1	N	266	G	P-O3'-C3'	19.05	142.56	119.70
1	N	698	G	C5-C6-O6	-18.99	117.20	128.60
1	N	19	A	N1-C6-N6	18.98	129.99	118.60
1	N	1020	G	N1-C6-O6	18.95	131.27	119.90
1	N	529	G	C5-C6-O6	-18.91	117.25	128.60
1	N	1323	G	N1-C6-O6	18.91	131.25	119.90
1	N	1439	G	N1-C6-O6	18.90	131.24	119.90
1	N	768	A	N1-C6-N6	18.86	129.92	118.60
1	N	410	G	N1-C6-O6	18.80	131.18	119.90
1	N	348	G	C5-C6-O6	-18.79	117.33	128.60
1	N	1515	G	N1-C6-O6	18.78	131.17	119.90
1	N	1500	A	N1-C6-N6	18.76	129.85	118.60
1	N	444	G	N1-C6-O6	18.67	131.10	119.90
1	N	351	G	N1-C6-O6	18.65	131.09	119.90
1	N	1157	A	N1-C6-N6	18.64	129.79	118.60
1	N	1362	A	N1-C6-N6	18.64	129.78	118.60
1	N	1092	A	N1-C6-N6	18.59	129.75	118.60
1	N	1492	A	N1-C6-N6	18.57	129.74	118.60
1	N	119	A	P-O3'-C3'	18.56	141.97	119.70
1	N	402	G	N1-C6-O6	18.55	131.03	119.90
1	N	1418	A	N1-C6-N6	18.53	129.72	118.60
1	N	852	G	N9-C4-C5	18.53	112.81	105.40
1	N	109	A	N1-C6-N6	18.44	129.66	118.60
1	N	378	G	N1-C6-O6	18.42	130.95	119.90
1	N	586	C	O4'-C1'-N1	18.41	122.93	108.20
1	N	1513	A	N1-C6-N6	18.41	129.64	118.60
1	N	1101	A	P-O3'-C3'	18.41	141.79	119.70
1	N	266	G	C5-C6-O6	-18.39	117.57	128.60
1	N	11	G	N1-C6-O6	18.38	130.93	119.90
1	N	1271	A	N1-C6-N6	18.33	129.60	118.60
1	N	1446	A	N1-C6-N6	18.21	129.53	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	601	G	C5-C6-O6	-18.18	117.69	128.60
1	N	410	G	C5-C6-O6	-18.16	117.70	128.60
1	N	263	A	N1-C6-N6	18.15	129.49	118.60
1	N	351	G	C5-C6-O6	-18.14	117.72	128.60
1	N	560	A	N1-C6-N6	18.13	129.48	118.60
1	N	1241	G	N1-C6-O6	18.12	130.77	119.90
1	N	111	G	N1-C6-O6	18.11	130.77	119.90
1	N	1456	A	N1-C6-N6	18.09	129.45	118.60
1	N	852	G	C4-C5-N7	-18.05	103.58	110.80
1	N	1274	A	C4-C5-C6	18.03	126.02	117.00
1	N	1081	A	N1-C6-N6	18.03	129.42	118.60
1	N	832	G	C5-C6-O6	-18.01	117.79	128.60
1	N	1530	G	P-O3'-C3'	18.00	141.30	119.70
1	N	1236	A	N1-C6-N6	18.00	129.40	118.60
1	N	913	A	N9-C4-C5	17.95	112.98	105.80
1	N	454	G	N1-C6-O6	17.94	130.66	119.90
1	N	445	G	N1-C6-O6	17.94	130.66	119.90
1	N	808	C	O4'-C1'-N1	17.93	122.55	108.20
1	N	1195	C	N3-C4-C5	-17.90	114.74	121.90
1	N	394	G	C5-C6-O6	-17.88	117.87	128.60
1	N	147	G	N1-C6-O6	17.86	130.61	119.90
1	N	179	A	N1-C6-N6	17.84	129.31	118.60
1	N	1181	G	C5-C6-N1	-17.83	102.59	111.50
1	N	202	G	N1-C6-O6	17.82	130.59	119.90
1	N	831	A	N1-C6-N6	17.78	129.27	118.60
1	N	595	A	N1-C6-N6	17.77	129.26	118.60
1	N	494	G	N1-C6-O6	17.77	130.56	119.90
1	N	378	G	C5-C6-O6	-17.73	117.96	128.60
1	N	397	A	N1-C6-N6	17.71	129.22	118.60
1	N	1480	A	N1-C6-N6	17.71	129.22	118.60
1	N	903	G	N1-C6-O6	17.69	130.52	119.90
1	N	475	C	C6-N1-C2	-17.64	113.24	120.30
1	N	1334	G	N1-C6-O6	17.63	130.48	119.90
1	N	389	A	N1-C6-N6	17.62	129.17	118.60
1	N	321	A	N1-C6-N6	17.61	129.17	118.60
1	N	1018	G	N1-C6-O6	17.61	130.47	119.90
1	N	210	C	P-O3'-C3'	17.49	140.69	119.70
1	N	745	G	C5-C6-O6	-17.48	118.11	128.60
1	N	348	G	N1-C6-O6	17.48	130.39	119.90
1	N	785	G	N1-C6-O6	17.46	130.38	119.90
1	N	1276	G	N1-C6-O6	17.46	130.38	119.90
1	N	78	A	N1-C6-N6	17.44	129.06	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	412	A	N1-C6-N6	17.40	129.04	118.60
1	N	913	A	N1-C6-N6	17.37	129.02	118.60
1	N	428	G	N1-C6-O6	17.36	130.32	119.90
1	N	1309	G	C5-C6-O6	-17.35	118.19	128.60
1	N	1018	G	C5-C6-O6	-17.33	118.20	128.60
1	N	308	C	N3-C4-C5	-17.27	114.99	121.90
1	N	1523	G	C5-C6-O6	-17.24	118.25	128.60
1	N	695	A	N1-C6-N6	17.23	128.94	118.60
1	N	698	G	N1-C6-O6	17.23	130.24	119.90
1	N	1432	G	N1-C6-O6	17.22	130.23	119.90
1	N	900	A	N1-C6-N6	17.22	128.93	118.60
1	N	505	G	C5-C6-O6	-17.19	118.28	128.60
1	N	913	A	C8-N9-C4	-17.17	98.93	105.80
1	N	964	A	N1-C6-N6	17.16	128.90	118.60
1	N	974	A	N1-C6-N6	17.16	128.89	118.60
1	N	1201	A	P-O3'-C3'	17.15	140.28	119.70
1	N	1004	A	N1-C6-N6	17.15	128.89	118.60
1	N	1231	G	N1-C6-O6	17.14	130.18	119.90
1	N	865	A	N1-C6-N6	17.08	128.85	118.60
1	N	275	G	C6-C5-N7	-17.06	120.16	130.40
1	N	163	C	N3-C4-C5	-17.05	115.08	121.90
1	N	1067	A	N1-C6-N6	17.04	128.83	118.60
1	N	1225	A	C5-C6-N1	-17.04	109.18	117.70
1	N	487	A	N1-C6-N6	17.03	128.82	118.60
1	N	908	A	N1-C6-N6	17.01	128.81	118.60
1	N	269	C	C6-N1-C2	-17.01	113.50	120.30
1	N	64	G	N1-C6-O6	16.93	130.06	119.90
1	N	254	G	N1-C6-O6	16.91	130.05	119.90
1	N	704	A	N1-C6-N6	16.90	128.74	118.60
1	N	685	G	N1-C6-O6	16.88	130.03	119.90
1	N	1287	A	N1-C6-N6	16.87	128.72	118.60
1	N	1093	A	N1-C6-N6	16.80	128.68	118.60
1	N	491	G	N1-C6-O6	16.80	129.98	119.90
1	N	584	G	N1-C6-O6	16.80	129.98	119.90
1	N	26	A	N1-C6-N6	16.79	128.68	118.60
1	N	376	G	N1-C6-O6	16.77	129.96	119.90
1	N	404	G	N1-C6-O6	16.77	129.96	119.90
1	N	913	A	P-O3'-C3'	16.76	139.81	119.70
1	N	803	G	C5-C6-O6	-16.72	118.57	128.60
1	N	1311	A	N1-C6-N6	16.71	128.63	118.60
1	N	1360	A	N1-C6-N6	16.71	128.62	118.60
1	N	574	A	N1-C6-N6	16.69	128.62	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	969	A	N1-C6-N6	16.68	128.61	118.60
1	N	796	C	N3-C4-C5	-16.67	115.23	121.90
1	N	844	G	C5-C6-O6	-16.66	118.60	128.60
1	N	1254	A	N1-C6-N6	16.64	128.59	118.60
1	N	1421	G	N1-C6-O6	16.63	129.88	119.90
1	N	1395	C	C6-N1-C2	-16.63	113.65	120.30
1	N	1180	A	N1-C6-N6	16.62	128.57	118.60
1	N	760	G	C5-C6-O6	-16.61	118.64	128.60
1	N	584	G	C5-C6-O6	-16.59	118.65	128.60
1	N	451	A	P-O3'-C3'	16.58	139.60	119.70
1	N	235	C	O4'-C1'-N1	16.57	121.46	108.20
1	N	446	G	N1-C6-O6	16.57	129.84	119.90
1	N	748	G	C5-C6-O6	-16.54	118.67	128.60
1	N	353	A	N1-C6-N6	16.54	128.52	118.60
1	N	635	A	N1-C6-N6	16.53	128.52	118.60
1	N	1022	A	C8-N9-C4	-16.53	99.19	105.80
1	N	790	A	N1-C6-N6	16.52	128.51	118.60
1	N	1416	G	N1-C6-O6	16.49	129.79	119.90
1	N	634	C	N3-C4-N4	16.48	129.54	118.00
1	N	145	G	N1-C6-O6	16.46	129.78	119.90
1	N	685	G	C5-C6-O6	-16.40	118.76	128.60
1	N	702	A	N1-C6-N6	16.40	128.44	118.60
1	N	195	A	N1-C6-N6	16.37	128.42	118.60
1	N	645	G	C5-C6-O6	-16.36	118.78	128.60
1	N	1082	A	N1-C6-N6	16.36	128.41	118.60
1	N	1209	C	N3-C4-C5	-16.36	115.36	121.90
1	N	74	A	N1-C6-N6	16.34	128.40	118.60
1	N	1207	G	N1-C6-O6	16.34	129.70	119.90
1	N	1206	G	C5-C6-O6	-16.32	118.81	128.60
1	N	1421	G	C5-C6-O6	-16.29	118.82	128.60
1	N	50	A	N1-C6-N6	16.29	128.37	118.60
1	N	869	G	N1-C6-O6	16.26	129.66	119.90
1	N	9	G	N1-C6-O6	16.26	129.65	119.90
1	N	73	C	O4'-C1'-N1	16.26	121.20	108.20
1	N	108	G	C5-C6-O6	-16.25	118.85	128.60
1	N	25	C	O4'-C1'-N1	16.24	121.19	108.20
1	N	127	G	N1-C6-O6	16.24	129.64	119.90
1	N	1242	G	N1-C6-O6	16.23	129.64	119.90
1	N	371	A	N1-C6-N6	16.22	128.33	118.60
1	N	609	A	N1-C6-N6	16.21	128.32	118.60
1	N	1035	A	N1-C6-N6	16.20	128.32	118.60
1	N	1529	G	P-O3'-C3'	16.18	139.12	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	718	A	O4'-C1'-N9	16.16	121.13	108.20
1	N	1240	U	C2-N3-C4	-16.16	117.31	127.00
1	N	942	G	C5-C6-O6	-16.15	118.91	128.60
1	N	1274	A	C5-C6-N1	-16.15	109.62	117.70
1	N	102	G	N1-C6-O6	16.14	129.59	119.90
1	N	149	A	N1-C6-N6	16.14	128.28	118.60
1	N	498	A	N1-C6-N6	16.13	128.28	118.60
1	N	1246	A	N1-C6-N6	16.12	128.27	118.60
1	N	493	A	N1-C6-N6	16.10	128.26	118.60
1	N	533	A	N1-C6-N6	16.10	128.26	118.60
1	N	21	G	C5-C6-O6	-16.06	118.96	128.60
1	N	926	G	N1-C6-O6	16.05	129.53	119.90
1	N	505	G	N1-C6-O6	16.01	129.50	119.90
1	N	938	A	N1-C6-N6	16.00	128.20	118.60
1	N	972	C	O4'-C1'-N1	15.99	121.00	108.20
1	N	399	G	N1-C6-O6	15.99	129.49	119.90
1	N	620	C	N3-C4-N4	15.96	129.17	118.00
1	N	380	G	N9-C4-C5	15.94	111.78	105.40
1	N	1294	G	N1-C6-O6	15.94	129.46	119.90
1	N	139	A	N1-C6-N6	15.92	128.15	118.60
1	N	1244	G	N1-C6-O6	15.91	129.44	119.90
1	N	1473	G	C5-C6-N1	-15.90	103.55	111.50
1	N	266	G	N1-C6-O6	15.90	129.44	119.90
1	N	789	U	P-O5'-C5'	15.88	146.30	120.90
1	N	752	G	O4'-C1'-N9	15.87	120.89	108.20
1	N	1367	C	C6-N1-C2	-15.86	113.95	120.30
1	N	1377	A	C5-C6-N1	-15.85	109.77	117.70
1	N	1491	G	C5-C6-O6	-15.84	119.10	128.60
1	N	1145	A	N1-C6-N6	15.83	128.10	118.60
1	N	984	C	O4'-C1'-N1	15.83	120.86	108.20
1	N	1379	G	N1-C6-O6	15.81	129.39	119.90
1	N	719	C	N3-C4-C5	-15.78	115.59	121.90
1	N	1257	A	N1-C6-N6	15.72	128.03	118.60
1	N	1332	A	O4'-C1'-N9	15.72	120.78	108.20
1	N	201	G	C5-C6-N1	-15.71	103.64	111.50
1	N	829	G	C5-C6-O6	-15.71	119.17	128.60
1	N	1088	G	P-O5'-C5'	15.71	146.03	120.90
1	N	1275	A	C5-C6-N1	-15.69	109.85	117.70
1	N	57	G	C5-C6-O6	-15.69	119.19	128.60
1	N	182	A	N1-C6-N6	15.68	128.01	118.60
1	N	510	A	N9-C4-C5	15.67	112.07	105.80
1	N	706	A	N1-C6-N6	15.66	128.00	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	57	G	N1-C6-O6	15.65	129.29	119.90
1	N	332	G	N1-C6-O6	15.61	129.27	119.90
1	N	99	C	N3-C4-N4	15.59	128.91	118.00
1	N	645	G	N1-C6-O6	15.59	129.25	119.90
1	N	1276	G	C5-C6-O6	-15.59	119.25	128.60
1	N	351	G	P-O3'-C3'	15.57	138.39	119.70
1	N	982	U	P-O3'-C3'	15.55	138.36	119.70
1	N	1275	A	C4-C5-C6	15.54	124.77	117.00
1	N	1171	A	N1-C6-N6	15.53	127.92	118.60
1	N	978	A	N1-C6-N6	15.52	127.91	118.60
1	N	1053	G	C5-C6-O6	-15.51	119.29	128.60
1	N	498	A	N1-C2-N3	15.51	137.06	129.30
1	N	255	G	N1-C6-O6	15.50	129.20	119.90
1	N	1392	G	N1-C6-O6	15.50	129.20	119.90
1	N	1431	A	C5-C6-N1	-15.48	109.96	117.70
1	N	840	C	N3-C4-N4	15.48	128.83	118.00
1	N	1496	C	C6-N1-C2	-15.47	114.11	120.30
1	N	42	G	C5-C6-O6	-15.46	119.33	128.60
1	N	1399	C	P-O3'-C3'	15.45	138.24	119.70
1	N	81	A	N1-C2-N3	15.45	137.02	129.30
1	N	669	G	C5-C6-O6	-15.44	119.34	128.60
1	N	1032	G	C5-C6-O6	-15.42	119.35	128.60
1	N	181	A	P-O3'-C3'	15.42	138.20	119.70
1	N	177	G	N3-C2-N2	15.40	130.68	119.90
1	N	1141	C	N3-C4-C5	-15.40	115.74	121.90
1	N	642	A	C5-C6-N6	-15.40	111.38	123.70
1	N	761	G	N1-C6-O6	15.40	129.14	119.90
1	N	806	C	C6-N1-C2	15.39	126.45	120.30
1	N	144	G	N1-C6-O6	15.37	129.12	119.90
1	N	1419	G	C5-C6-O6	-15.37	119.38	128.60
1	N	256	U	O4'-C1'-N1	15.36	120.49	108.20
1	N	444	G	C5-C6-O6	-15.36	119.38	128.60
1	N	1021	A	N1-C6-N6	15.36	127.82	118.60
1	N	141	G	N1-C6-O6	15.34	129.11	119.90
1	N	386	C	N3-C4-C5	-15.34	115.76	121.90
1	N	457	G	C5-C6-O6	-15.34	119.39	128.60
1	N	223	A	N1-C6-N6	15.33	127.80	118.60
1	N	712	A	N1-C6-N6	15.32	127.79	118.60
1	N	292	G	C5-C6-O6	-15.31	119.41	128.60
1	N	725	G	N1-C6-O6	15.30	129.08	119.90
1	N	1355	G	C5-C6-O6	-15.27	119.44	128.60
1	N	817	C	P-O3'-C3'	15.27	138.02	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	588	G	C5-C6-O6	-15.26	119.44	128.60
1	N	373	A	C5-C6-N6	-15.26	111.49	123.70
1	N	1392	G	C5-C6-O6	-15.24	119.46	128.60
1	N	928	G	N1-C6-O6	15.23	129.04	119.90
1	N	59	A	N1-C6-N6	15.22	127.73	118.60
1	N	73	C	N3-C4-N4	15.22	128.65	118.00
1	N	1411	C	N3-C4-C5	-15.21	115.81	121.90
1	N	806	C	O4'-C1'-N1	15.21	120.36	108.20
1	N	445	G	C5-C6-O6	-15.20	119.48	128.60
1	N	127	G	C5-C6-O6	-15.20	119.48	128.60
1	N	364	A	N1-C6-N6	15.19	127.71	118.60
1	N	441	A	C5-C6-N1	-15.16	110.12	117.70
1	N	608	A	C4-C5-C6	15.16	124.58	117.00
1	N	1422	G	C5-C6-O6	-15.15	119.51	128.60
1	N	675	A	C4-C5-C6	15.14	124.57	117.00
1	N	338	A	N1-C6-N6	15.14	127.68	118.60
1	N	1432	G	P-O3'-C3'	15.12	137.84	119.70
1	N	509	A	C4-C5-C6	15.11	124.55	117.00
1	N	886	G	N1-C6-O6	15.10	128.96	119.90
1	N	1212	U	C5-C4-O4	-15.09	116.85	125.90
1	N	120	A	O4'-C1'-N9	15.08	120.27	108.20
1	N	669	G	N1-C6-O6	15.06	128.94	119.90
1	N	836	G	N1-C6-O6	15.05	128.93	119.90
1	N	115	G	P-O3'-C3'	15.03	137.73	119.70
1	N	609	A	C4-C5-C6	15.02	124.51	117.00
1	N	620	C	N3-C4-C5	-15.01	115.90	121.90
1	N	376	G	C5-C6-O6	-15.00	119.60	128.60
1	N	1294	G	C5-C6-O6	-15.00	119.60	128.60
1	N	511	C	P-O3'-C3'	15.00	137.69	119.70
1	N	130	A	N1-C6-N6	14.99	127.59	118.60
1	N	200	G	C5-C6-O6	-14.98	119.61	128.60
1	N	1124	G	C6-C5-N7	-14.98	121.41	130.40
1	N	814	A	N1-C6-N6	14.96	127.57	118.60
1	N	852	G	C5-N7-C8	14.96	111.78	104.30
1	N	1483	A	N1-C6-N6	14.96	127.58	118.60
1	N	843	U	O4'-C1'-N1	14.95	120.16	108.20
1	N	1184	G	N1-C6-O6	14.95	128.87	119.90
1	N	572	A	C5-C6-N6	-14.94	111.75	123.70
1	N	861	G	N1-C6-O6	14.93	128.86	119.90
1	N	1144	G	P-O3'-C3'	14.92	137.61	119.70
1	N	252	U	O4'-C1'-N1	14.92	120.14	108.20
1	N	664	G	C5-C6-O6	-14.92	119.65	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	82	G	N1-C6-O6	14.92	128.85	119.90
1	N	1362	A	O4'-C1'-N9	14.90	120.12	108.20
1	N	1403	C	O4'-C1'-N1	14.88	120.11	108.20
1	N	1111	A	N1-C6-N6	14.86	127.52	118.60
1	N	1432	G	C5-C6-O6	-14.86	119.69	128.60
1	N	1360	A	C4-C5-C6	14.85	124.43	117.00
1	N	698	G	C8-N9-C4	-14.85	100.46	106.40
1	N	719	C	O4'-C1'-N1	14.85	120.08	108.20
1	N	314	C	N3-C4-C5	-14.83	115.97	121.90
1	N	372	C	N3-C4-C5	-14.82	115.97	121.90
1	N	91	U	O4'-C1'-N1	14.81	120.05	108.20
1	N	1350	A	N1-C6-N6	14.80	127.48	118.60
1	N	1319	A	P-O3'-C3'	14.78	137.44	119.70
1	N	859	G	N1-C6-O6	14.76	128.76	119.90
1	N	1387	G	N1-C6-O6	14.75	128.75	119.90
1	N	93	U	O4'-C1'-N1	14.72	119.98	108.20
1	N	1257	A	C5-C6-N1	-14.72	110.34	117.70
1	N	923	A	N1-C6-N6	14.69	127.42	118.60
1	N	1318	A	N1-C6-N6	14.69	127.41	118.60
1	N	177	G	N1-C2-N3	-14.68	115.09	123.90
1	N	1396	A	C4-C5-N7	-14.68	103.36	110.70
1	N	687	A	N1-C6-N6	14.68	127.41	118.60
1	N	1504	G	P-O3'-C3'	14.67	137.31	119.70
1	N	1238	A	N1-C2-N3	14.67	136.63	129.30
1	N	1407	C	C6-N1-C2	-14.67	114.43	120.30
1	N	1396	A	C4-C5-C6	14.66	124.33	117.00
1	N	610	U	O4'-C1'-N1	14.65	119.92	108.20
1	N	682	G	C5-C6-O6	-14.63	119.82	128.60
1	N	933	G	C5-C6-O6	-14.63	119.82	128.60
1	N	649	A	N1-C6-N6	14.62	127.37	118.60
1	N	753	A	N1-C6-N6	14.62	127.37	118.60
1	N	912	C	N3-C4-C5	-14.62	116.05	121.90
1	N	1241	G	C5-C6-O6	-14.61	119.83	128.60
1	N	521	G	N1-C6-O6	14.61	128.67	119.90
1	N	222	C	O4'-C1'-N1	14.61	119.89	108.20
1	N	1242	G	C5-C6-O6	-14.61	119.83	128.60
1	N	1416	G	C5-C6-O6	-14.58	119.85	128.60
1	N	724	G	C5-C6-O6	-14.57	119.86	128.60
1	N	385	C	N3-C4-N4	14.57	128.20	118.00
1	N	36	C	N3-C4-N4	14.57	128.20	118.00
1	N	1241	G	N3-C2-N2	14.55	130.08	119.90
1	N	803	G	N1-C6-O6	14.54	128.63	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	197	A	N1-C6-N6	14.54	127.32	118.60
1	N	1014	A	N1-C6-N6	14.54	127.32	118.60
1	N	1162	C	N3-C4-N4	14.54	128.18	118.00
1	N	1136	C	C6-N1-C2	-14.52	114.49	120.30
1	N	331	G	N1-C6-O6	14.51	128.60	119.90
1	N	247	G	C4-C5-N7	14.50	116.60	110.80
1	N	815	A	N1-C6-N6	14.50	127.30	118.60
1	N	1339	A	N1-C6-N6	14.49	127.29	118.60
1	N	1349	A	N1-C6-N6	14.48	127.29	118.60
1	N	661	G	N1-C6-O6	14.47	128.58	119.90
1	N	307	C	O4'-C1'-N1	14.47	119.78	108.20
1	N	243	A	P-O3'-C3'	14.46	137.05	119.70
1	N	1401	G	N1-C6-O6	14.46	128.57	119.90
1	N	500	G	C5-C6-O6	-14.44	119.94	128.60
1	N	115	G	N9-C4-C5	-14.43	99.63	105.40
1	N	681	A	N1-C6-N6	14.41	127.25	118.60
1	N	1288	A	N1-C6-N6	14.40	127.24	118.60
1	N	1077	G	O4'-C1'-N9	14.39	119.71	108.20
1	N	776	G	P-O5'-C5'	14.38	143.91	120.90
1	N	499	A	N1-C6-N6	14.37	127.22	118.60
1	N	1455	G	N1-C6-O6	14.37	128.52	119.90
1	N	974	A	C5-C6-N6	-14.36	112.21	123.70
1	N	935	A	N1-C6-N6	14.35	127.21	118.60
1	N	661	G	O4'-C1'-N9	14.34	119.67	108.20
1	N	752	G	N1-C6-O6	14.34	128.50	119.90
1	N	646	G	C5-C6-O6	-14.32	120.01	128.60
1	N	1493	A	N1-C6-N6	14.32	127.19	118.60
1	N	377	G	N1-C6-O6	14.31	128.49	119.90
1	N	1389	C	N3-C4-N4	14.30	128.01	118.00
1	N	346	G	N1-C6-O6	14.29	128.48	119.90
1	N	31	G	C5-C6-O6	-14.29	120.03	128.60
1	N	1229	A	N1-C6-N6	14.29	127.17	118.60
1	N	1060	U	O4'-C1'-N1	14.29	119.63	108.20
1	N	797	C	C2-N3-C4	14.28	127.04	119.90
1	N	1255	G	C5-C6-O6	-14.28	120.03	128.60
1	N	72	A	N1-C6-N6	14.27	127.16	118.60
1	N	1001	C	N3-C4-N4	14.27	127.99	118.00
1	N	1269	A	O4'-C1'-N9	14.27	119.62	108.20
1	N	381	C	N3-C4-C5	-14.26	116.19	121.90
1	N	880	C	N3-C4-C5	-14.26	116.20	121.90
1	N	539	A	N1-C6-N6	14.25	127.15	118.60
1	N	1154	G	N1-C6-O6	14.24	128.44	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	16	A	C5-C6-N1	-14.23	110.58	117.70
1	N	829	G	C2-N3-C4	14.23	119.01	111.90
1	N	1460	C	N3-C4-C5	-14.21	116.22	121.90
1	N	734	G	O4'-C1'-N9	14.20	119.56	108.20
1	N	337	G	N1-C6-O6	14.19	128.41	119.90
1	N	1031	C	C6-N1-C2	-14.17	114.63	120.30
1	N	1357	A	N1-C6-N6	14.15	127.09	118.60
1	N	379	C	O4'-C1'-N1	14.14	119.52	108.20
1	N	228	A	N1-C6-N6	14.13	127.08	118.60
1	N	384	G	C5-C6-O6	-14.13	120.12	128.60
1	N	461	A	C8-N9-C4	-14.12	100.15	105.80
1	N	958	A	N1-C6-N6	14.12	127.07	118.60
1	N	544	G	N1-C6-O6	14.11	128.37	119.90
1	N	1053	G	N1-C6-O6	14.10	128.36	119.90
1	N	359	G	C5-C6-O6	-14.08	120.15	128.60
1	N	1346	A	N1-C6-N6	14.07	127.04	118.60
1	N	786	G	N1-C6-O6	14.05	128.33	119.90
1	N	298	A	N1-C6-N6	14.04	127.03	118.60
1	N	790	A	C4-C5-C6	14.04	124.02	117.00
1	N	812	G	P-O3'-C3'	14.04	136.55	119.70
1	N	456	A	N1-C6-N6	14.04	127.02	118.60
1	N	428	G	C5-C6-N1	-14.03	104.48	111.50
1	N	1396	A	C5-C6-N1	-14.03	110.68	117.70
1	N	942	G	N1-C6-O6	14.03	128.32	119.90
1	N	1387	G	C5-C6-O6	-14.02	120.19	128.60
1	N	630	A	C5-C6-N6	-14.00	112.50	123.70
1	N	566	G	P-O3'-C3'	13.99	136.49	119.70
1	N	889	A	C5-C6-N6	-13.97	112.52	123.70
1	N	1413	A	C5-C6-N1	-13.97	110.72	117.70
1	N	1374	A	O4'-C1'-N9	13.96	119.37	108.20
1	N	652	U	O4'-C1'-N1	13.95	119.36	108.20
1	N	1061	G	N1-C6-O6	13.94	128.26	119.90
1	N	474	G	C5-C6-O6	-13.91	120.25	128.60
1	N	919	A	C2-N3-C4	-13.90	103.65	110.60
1	N	618	C	N3-C4-C5	-13.90	116.34	121.90
1	N	1377	A	C4-C5-C6	13.90	123.95	117.00
1	N	102	G	C5-C6-O6	-13.90	120.26	128.60
1	N	888	G	N3-C2-N2	13.89	129.62	119.90
1	N	1281	C	N3-C4-N4	13.89	127.73	118.00
1	N	201	G	N1-C6-O6	13.89	128.23	119.90
1	N	490	C	N3-C4-C5	-13.88	116.35	121.90
1	N	1129	C	C6-N1-C2	-13.87	114.75	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1530	G	O4'-C1'-N9	13.87	119.30	108.20
1	N	513	C	C6-N1-C2	-13.87	114.75	120.30
1	N	1072	G	N1-C6-O6	13.86	128.22	119.90
1	N	1157	A	C5-C6-N6	-13.86	112.61	123.70
1	N	1259	C	N3-C4-C5	-13.85	116.36	121.90
1	N	1032	G	N1-C6-O6	13.85	128.21	119.90
1	N	1140	C	C6-N1-C2	13.85	125.84	120.30
1	N	679	C	N3-C4-C5	-13.83	116.37	121.90
1	N	1037	C	N3-C4-N4	13.83	127.68	118.00
1	N	1277	C	N3-C4-C5	-13.83	116.37	121.90
1	N	1317	C	C6-N1-C2	-13.83	114.77	120.30
1	N	669	G	C2-N3-C4	13.83	118.81	111.90
1	N	1043	G	N9-C4-C5	13.83	110.93	105.40
1	N	15	G	N7-C8-N9	13.80	120.00	113.10
1	N	634	C	C5-C4-N4	-13.80	110.54	120.20
1	N	1175	G	N1-C6-O6	13.80	128.18	119.90
1	N	592	G	N1-C6-O6	13.79	128.17	119.90
1	N	1250	A	N1-C6-N6	13.79	126.87	118.60
1	N	51	A	N1-C6-N6	13.77	126.86	118.60
1	N	441	A	N1-C6-N6	13.77	126.86	118.60
1	N	448	A	N1-C6-N6	13.77	126.86	118.60
1	N	94	G	N1-C6-O6	13.76	128.16	119.90
1	N	403	C	N3-C4-N4	13.74	127.62	118.00
1	N	411	A	N1-C6-N6	13.74	126.84	118.60
1	N	1481	U	N3-C4-O4	13.74	129.02	119.40
1	N	1364	U	O4'-C1'-N1	13.73	119.18	108.20
1	N	781	A	N1-C6-N6	13.73	126.84	118.60
1	N	633	G	N1-C6-O6	13.72	128.13	119.90
1	N	1523	G	N1-C6-O6	13.72	128.13	119.90
1	N	1336	C	P-O3'-C3'	13.72	136.16	119.70
1	N	213	G	C5-C6-O6	-13.71	120.38	128.60
1	N	1515	G	C5-C6-O6	-13.71	120.38	128.60
1	N	559	A	N1-C6-N6	13.70	126.82	118.60
1	N	885	G	N1-C6-O6	13.69	128.11	119.90
1	N	143	A	O4'-C1'-N9	13.67	119.14	108.20
1	N	1092	A	C5-C6-N1	-13.67	110.86	117.70
1	N	250	A	N1-C6-N6	13.67	126.80	118.60
1	N	279	A	N1-C6-N6	13.67	126.80	118.60
1	N	723	U	O4'-C1'-N1	13.67	119.13	108.20
1	N	1101	A	N1-C6-N6	13.66	126.80	118.60
1	N	446	G	C5-C6-O6	-13.65	120.41	128.60
1	N	912	C	N3-C4-N4	13.65	127.55	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	913	A	C4-C5-C6	13.65	123.82	117.00
1	N	1401	G	C5-C6-O6	-13.65	120.41	128.60
1	N	115	G	C5-C6-O6	-13.64	120.42	128.60
1	N	234	C	C6-N1-C2	-13.64	114.84	120.30
1	N	1278	G	P-O3'-C3'	13.63	136.06	119.70
1	N	893	C	N3-C4-C5	-13.63	116.45	121.90
1	N	172	A	C2-N3-C4	13.63	117.41	110.60
1	N	1343	G	N1-C6-O6	13.62	128.07	119.90
1	N	327	A	P-O3'-C3'	13.62	136.04	119.70
1	N	605	U	P-O3'-C3'	13.61	136.03	119.70
1	N	1483	A	C5-N7-C8	13.60	110.70	103.90
1	N	391	G	O4'-C1'-N9	13.60	119.08	108.20
1	N	1422	G	N1-C6-O6	13.60	128.06	119.90
1	N	1299	A	N1-C6-N6	13.58	126.75	118.60
1	N	523	A	O4'-C1'-N9	13.57	119.06	108.20
1	N	344	A	N1-C6-N6	13.56	126.74	118.60
1	N	1005	A	N1-C6-N6	13.56	126.73	118.60
1	N	237	G	N1-C6-O6	13.55	128.03	119.90
1	N	1226	C	N3-C4-C5	-13.55	116.48	121.90
1	N	1377	A	N1-C6-N6	13.55	126.73	118.60
1	N	202	G	P-O3'-C3'	13.54	135.95	119.70
1	N	1375	A	C4-C5-C6	13.54	123.77	117.00
1	N	190	A	N1-C6-N6	13.54	126.72	118.60
1	N	495	A	O4'-C1'-N9	13.54	119.03	108.20
1	N	225	C	N3-C4-C5	-13.53	116.49	121.90
1	N	1435	G	O4'-C1'-N9	13.53	119.02	108.20
1	N	236	A	N1-C6-N6	13.52	126.71	118.60
1	N	867	G	N1-C6-O6	13.51	128.01	119.90
1	N	560	A	C5-C6-N6	-13.51	112.89	123.70
1	N	700	G	O4'-C1'-N9	13.51	119.00	108.20
1	N	796	C	N3-C4-N4	13.51	127.45	118.00
1	N	42	G	N1-C6-O6	13.49	128.00	119.90
1	N	299	G	C5-C6-O6	-13.49	120.51	128.60
1	N	897	C	N3-C4-C5	-13.49	116.51	121.90
1	N	594	U	O4'-C1'-N1	13.48	118.99	108.20
1	N	116	A	N1-C6-N6	13.48	126.69	118.60
1	N	728	A	N1-C2-N3	13.48	136.04	129.30
1	N	1287	A	C5-C6-N6	-13.48	112.92	123.70
1	N	1472	U	O4'-C1'-N1	13.48	118.98	108.20
1	N	363	A	N1-C6-N6	13.47	126.68	118.60
1	N	1384	C	N1-C2-O2	13.47	126.98	118.90
1	N	6	G	N1-C6-O6	13.47	127.98	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	739	C	O4'-C1'-N1	13.45	118.96	108.20
1	N	537	G	N1-C2-N3	-13.43	115.84	123.90
1	N	1483	A	C4-C5-C6	13.43	123.71	117.00
1	N	141	G	C5-C6-O6	-13.42	120.55	128.60
1	N	934	C	P-O3'-C3'	13.42	135.81	119.70
1	N	1195	C	N3-C4-N4	13.42	127.39	118.00
1	N	1020	G	C5-C6-O6	-13.41	120.55	128.60
1	N	1502	A	N1-C6-N6	13.41	126.65	118.60
1	N	931	C	N3-C4-N4	13.41	127.39	118.00
1	N	674	G	N1-C6-O6	13.41	127.95	119.90
1	N	131	A	N1-C6-N6	13.40	126.64	118.60
1	N	1534	A	N1-C6-N6	13.40	126.64	118.60
1	N	430	A	C8-N9-C4	13.39	111.16	105.80
1	N	1455	G	C5-C6-O6	-13.39	120.56	128.60
1	N	901	A	N1-C6-N6	13.39	126.63	118.60
1	N	1089	G	N1-C6-O6	13.39	127.93	119.90
1	N	306	A	N1-C6-N6	13.38	126.63	118.60
1	N	422	C	N3-C4-C5	-13.38	116.55	121.90
1	N	352	C	N3-C4-N4	13.37	127.36	118.00
1	N	470	C	N3-C4-C5	-13.35	116.56	121.90
1	N	466	A	N1-C6-N6	13.34	126.61	118.60
1	N	586	C	C6-N1-C2	-13.34	114.97	120.30
1	N	205	A	N1-C6-N6	13.33	126.60	118.60
1	N	1488	G	O4'-C1'-N9	13.32	118.86	108.20
1	N	519	C	O4'-C1'-N1	13.32	118.86	108.20
1	N	1087	G	C5-C6-O6	-13.32	120.61	128.60
1	N	866	C	O4'-C1'-N1	13.31	118.85	108.20
1	N	1463	U	O4'-C1'-N1	13.31	118.85	108.20
1	N	1457	G	N1-C6-O6	13.31	127.88	119.90
1	N	70	U	P-O3'-C3'	13.30	135.66	119.70
1	N	949	A	N1-C6-N6	13.30	126.58	118.60
1	N	669	G	N1-C2-N3	-13.29	115.92	123.90
1	N	499	A	P-O3'-C3'	13.28	135.64	119.70
1	N	792	A	N1-C2-N3	13.28	135.94	129.30
1	N	1417	G	C6-C5-N7	-13.28	122.43	130.40
1	N	1074	G	N3-C2-N2	13.27	129.19	119.90
1	N	1323	G	O4'-C1'-N9	13.27	118.82	108.20
1	N	1195	C	P-O3'-C3'	13.27	135.62	119.70
1	N	1476	A	N1-C6-N6	13.26	126.56	118.60
1	N	1419	G	N1-C6-O6	13.25	127.85	119.90
1	N	931	C	O4'-C1'-N1	13.25	118.80	108.20
1	N	646	G	N1-C6-O6	13.24	127.84	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	729	A	C5-N7-C8	13.24	110.52	103.90
1	N	1507	A	N1-C6-N6	13.24	126.54	118.60
1	N	564	C	C6-N1-C2	-13.23	115.01	120.30
1	N	270	A	C2-N3-C4	-13.23	103.98	110.60
1	N	1363	A	N1-C6-N6	13.22	126.53	118.60
1	N	1395	C	N3-C4-N4	13.22	127.25	118.00
1	N	172	A	N1-C6-N6	13.22	126.53	118.60
1	N	326	G	N1-C6-O6	13.22	127.83	119.90
1	N	841	C	O4'-C1'-N1	13.21	118.77	108.20
1	N	1290	G	C5-C6-O6	-13.21	120.67	128.60
1	N	1355	G	N1-C6-O6	13.21	127.83	119.90
1	N	775	G	C6-C5-N7	-13.21	122.47	130.40
1	N	1497	G	N1-C6-O6	13.20	127.82	119.90
1	N	612	C	C5-C6-N1	13.19	127.59	121.00
1	N	575	G	P-O3'-C3'	13.19	135.53	119.70
1	N	1334	G	C5-C6-O6	-13.19	120.69	128.60
1	N	1057	G	C5-C6-O6	-13.17	120.70	128.60
1	N	425	G	P-O3'-C3'	-13.16	103.90	119.70
1	N	1229	A	O4'-C1'-N9	13.15	118.72	108.20
1	N	7	A	N1-C6-N6	13.15	126.49	118.60
1	N	1233	G	C2-N3-C4	13.15	118.47	111.90
1	N	539	A	C4-C5-C6	13.15	123.57	117.00
1	N	1413	A	N9-C4-C5	13.15	111.06	105.80
1	N	247	G	N9-C4-C5	-13.14	100.14	105.40
1	N	99	C	O4'-C1'-N1	13.13	118.71	108.20
1	N	233	C	C6-N1-C2	-13.13	115.05	120.30
1	N	1440	U	N3-C4-O4	13.12	128.59	119.40
1	N	356	A	N1-C6-N6	13.12	126.47	118.60
1	N	938	A	C6-C5-N7	-13.12	123.12	132.30
1	N	327	A	O4'-C1'-N9	13.11	118.69	108.20
1	N	1437	A	C2-N3-C4	-13.11	104.05	110.60
1	N	660	C	N3-C4-C5	-13.10	116.66	121.90
1	N	366	A	C8-N9-C4	-13.10	100.56	105.80
1	N	1517	G	C5-C6-O6	-13.10	120.74	128.60
1	N	915	A	N1-C6-N6	13.08	126.45	118.60
1	N	1066	C	O4'-C1'-N1	13.08	118.66	108.20
1	N	140	U	P-O3'-C3'	13.07	135.38	119.70
1	N	1164	G	N1-C6-O6	13.07	127.74	119.90
1	N	648	A	C8-N9-C4	-13.04	100.58	105.80
1	N	686	U	P-O3'-C3'	13.04	135.35	119.70
1	N	839	C	N3-C4-N4	13.04	127.13	118.00
1	N	1505	G	N1-C6-O6	13.04	127.72	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	275	G	C4-C5-N7	13.03	116.01	110.80
1	N	1389	C	C5-C4-N4	-13.03	111.08	120.20
1	N	509	A	P-O3'-C3'	13.03	135.33	119.70
1	N	1437	A	N1-C2-N3	13.03	135.81	129.30
1	N	696	A	N1-C6-N6	13.02	126.42	118.60
1	N	627	G	C5-C6-O6	-13.00	120.80	128.60
1	N	1283	U	O4'-C1'-N1	13.00	118.60	108.20
1	N	1150	A	N1-C6-N6	12.98	126.39	118.60
1	N	878	A	N1-C6-N6	12.98	126.39	118.60
1	N	120	A	P-O3'-C3'	12.98	135.27	119.70
1	N	142	G	N3-C2-N2	12.96	128.97	119.90
1	N	1398	A	N1-C6-N6	12.95	126.37	118.60
1	N	802	A	P-O3'-C3'	12.95	135.24	119.70
1	N	1162	C	C6-N1-C2	-12.95	115.12	120.30
1	N	867	G	N1-C2-N3	-12.94	116.14	123.90
1	N	200	G	N1-C6-O6	12.93	127.66	119.90
1	N	704	A	C5-C6-N6	-12.93	113.35	123.70
1	N	92	U	O4'-C1'-N1	12.93	118.54	108.20
1	N	520	A	C5-C6-N1	-12.93	111.24	117.70
1	N	1285	A	P-O3'-C3'	12.93	135.21	119.70
1	N	766	A	N1-C6-N6	12.92	126.35	118.60
1	N	829	G	N1-C6-O6	12.92	127.65	119.90
1	N	119	A	N1-C6-N6	12.91	126.35	118.60
1	N	666	G	N1-C6-O6	12.91	127.65	119.90
1	N	21	G	N1-C6-O6	12.91	127.65	119.90
1	N	963	G	N1-C6-O6	12.90	127.64	119.90
1	N	1133	G	C5-C6-O6	-12.90	120.86	128.60
1	N	1043	G	C8-N9-C4	-12.90	101.24	106.40
1	N	918	A	O4'-C1'-N9	12.88	118.50	108.20
1	N	172	A	C8-N9-C4	-12.87	100.65	105.80
1	N	578	C	O4'-C1'-N1	12.87	118.50	108.20
1	N	892	A	N1-C6-N6	12.87	126.32	118.60
1	N	1395	C	N3-C4-C5	-12.85	116.76	121.90
1	N	26	A	O4'-C1'-N9	12.82	118.46	108.20
1	N	369	G	N9-C4-C5	-12.81	100.27	105.40
1	N	897	C	C6-N1-C2	-12.81	115.17	120.30
1	N	138	G	C5-C6-O6	-12.81	120.92	128.60
1	N	328	C	N3-C4-N4	12.81	126.96	118.00
1	N	46	G	N1-C6-O6	12.80	127.58	119.90
1	N	541	G	C5-C6-O6	-12.79	120.92	128.60
1	N	1007	U	P-O3'-C3'	12.79	135.05	119.70
1	N	1001	C	C5-C4-N4	-12.79	111.25	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	77	A	N1-C6-N6	12.78	126.27	118.60
1	N	365	U	N3-C4-O4	12.78	128.35	119.40
1	N	768	A	C5-C6-N6	-12.78	113.48	123.70
1	N	1010	U	O4'-C1'-N1	12.78	118.42	108.20
1	N	346	G	C5-C6-O6	-12.78	120.93	128.60
1	N	1413	A	C8-N9-C4	-12.78	100.69	105.80
1	N	676	A	N1-C6-N6	12.77	126.26	118.60
1	N	899	C	O4'-C1'-N1	12.77	118.42	108.20
1	N	1139	G	C5-C6-O6	-12.77	120.94	128.60
1	N	258	G	N1-C2-N3	-12.77	116.24	123.90
1	N	393	A	N1-C6-N6	12.77	126.26	118.60
1	N	984	C	N3-C4-C5	-12.77	116.79	121.90
1	N	216	U	O4'-C1'-N1	12.77	118.41	108.20
1	N	1306	A	N1-C2-N3	-12.76	122.92	129.30
1	N	616	G	C8-N9-C4	-12.76	101.30	106.40
1	N	1332	A	C8-N9-C4	-12.76	100.70	105.80
1	N	1497	G	C5-C6-O6	-12.75	120.95	128.60
1	N	1201	A	N1-C6-N6	12.75	126.25	118.60
1	N	430	A	O4'-C1'-N9	12.74	118.39	108.20
1	N	1255	G	N1-C2-N3	-12.73	116.26	123.90
1	N	36	C	C5-C4-N4	-12.73	111.29	120.20
1	N	569	C	C5-C4-N4	-12.73	111.29	120.20
1	N	1473	G	N1-C6-O6	12.72	127.53	119.90
1	N	171	A	N1-C6-N6	12.72	126.23	118.60
1	N	937	A	N1-C6-N6	12.72	126.23	118.60
1	N	1186	G	N1-C6-O6	12.72	127.53	119.90
1	N	1035	A	P-O5'-C5'	12.70	141.23	120.90
1	N	1130	A	C5-C6-N1	-12.70	111.35	117.70
1	N	78	A	C5-C6-N6	-12.69	113.55	123.70
1	N	1418	A	C5-C6-N6	-12.69	113.55	123.70
1	N	1168	U	P-O3'-C3'	12.69	134.93	119.70
1	N	924	C	N3-C4-C5	-12.69	116.82	121.90
1	N	494	G	C5-C6-N1	-12.69	105.16	111.50
1	N	1151	A	N1-C6-N6	12.69	126.21	118.60
1	N	44	A	N1-C6-N6	12.68	126.21	118.60
1	N	1273	C	O4'-C1'-N1	12.68	118.35	108.20
1	N	136	C	O4'-C1'-N1	12.68	118.34	108.20
1	N	675	A	N1-C6-N6	12.68	126.20	118.60
1	N	1259	C	N3-C4-N4	12.68	126.87	118.00
1	N	1277	C	P-O3'-C3'	-12.68	104.49	119.70
1	N	1475	G	N1-C2-N3	-12.67	116.30	123.90
1	N	61	G	N1-C2-N3	-12.66	116.30	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1303	C	N3-C4-C5	-12.65	116.84	121.90
1	N	921	U	P-O3'-C3'	12.65	134.88	119.70
1	N	75	G	N1-C6-O6	12.64	127.48	119.90
1	N	264	C	P-O5'-C5'	12.64	141.12	120.90
1	N	1449	C	C4-C5-C6	12.63	123.72	117.40
1	N	138	G	N1-C6-O6	12.62	127.47	119.90
1	N	1366	C	C5-C6-N1	12.62	127.31	121.00
1	N	176	C	C2-N3-C4	12.62	126.21	119.90
1	N	919	A	C8-N9-C4	-12.62	100.75	105.80
1	N	734	G	N7-C8-N9	12.62	119.41	113.10
1	N	199	A	N1-C6-N6	12.62	126.17	118.60
1	N	718	A	N1-C6-N6	12.62	126.17	118.60
1	N	1452	C	N3-C4-C5	-12.62	116.85	121.90
1	N	425	G	N1-C6-O6	12.61	127.47	119.90
1	N	644	U	N3-C2-O2	12.61	131.03	122.20
1	N	558	G	N3-C2-N2	12.60	128.72	119.90
1	N	868	C	C6-N1-C2	-12.60	115.26	120.30
1	N	491	G	C5-C6-O6	-12.60	121.04	128.60
1	N	399	G	C5-C6-O6	-12.59	121.05	128.60
1	N	748	G	C6-N1-C2	12.59	132.65	125.10
1	N	560	A	N7-C8-N9	12.58	120.09	113.80
1	N	827	U	O4'-C1'-N1	12.58	118.26	108.20
1	N	852	G	N3-C4-C5	-12.58	122.31	128.60
1	N	869	G	C5-C6-O6	-12.58	121.05	128.60
1	N	1093	A	C8-N9-C4	-12.58	100.77	105.80
1	N	514	C	N3-C4-N4	12.57	126.80	118.00
1	N	1525	G	N1-C6-O6	12.56	127.44	119.90
1	N	615	G	N1-C6-O6	12.55	127.43	119.90
1	N	24	U	O4'-C1'-N1	12.55	118.24	108.20
1	N	1057	G	N1-C6-O6	12.55	127.43	119.90
1	N	314	C	N3-C4-N4	12.55	126.78	118.00
1	N	1519	A	C5-C6-N1	-12.55	111.43	117.70
1	N	314	C	O4'-C1'-N1	12.54	118.23	108.20
1	N	474	G	N1-C6-O6	12.54	127.42	119.90
1	N	973	G	C6-C5-N7	-12.54	122.88	130.40
1	N	380	G	C8-N9-C4	-12.53	101.39	106.40
1	N	34	C	C6-N1-C2	-12.52	115.29	120.30
1	N	344	A	P-O3'-C3'	12.52	134.72	119.70
1	N	1143	G	C8-N9-C4	-12.51	101.39	106.40
1	N	712	A	C5-C6-N1	-12.51	111.45	117.70
1	N	1218	C	O4'-C1'-N1	12.51	118.20	108.20
1	N	80	A	C5-C6-N6	-12.50	113.70	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1197	A	N1-C6-N6	12.49	126.10	118.60
1	N	15	G	C8-N9-C4	-12.49	101.41	106.40
1	N	1334	G	C5-N7-C8	-12.48	98.06	104.30
1	N	1413	A	N1-C6-N6	12.48	126.09	118.60
1	N	1187	G	N1-C6-O6	12.48	127.39	119.90
1	N	88	U	O4'-C1'-N1	12.47	118.18	108.20
1	N	385	C	C5-C4-N4	-12.47	111.47	120.20
1	N	977	A	N1-C6-N6	12.45	126.07	118.60
1	N	1022	A	N9-C4-C5	12.44	110.78	105.80
1	N	573	A	N1-C6-N6	12.44	126.07	118.60
1	N	90	C	N3-C4-N4	12.44	126.71	118.00
1	N	267	C	C6-N1-C2	-12.43	115.33	120.30
1	N	234	C	C5-C6-N1	12.43	127.22	121.00
1	N	928	G	C5-C6-O6	-12.43	121.14	128.60
1	N	1241	G	C8-N9-C4	-12.43	101.43	106.40
1	N	58	C	O4'-C1'-N1	12.43	118.14	108.20
1	N	1342	C	O4'-C1'-N1	12.43	118.14	108.20
1	N	613	C	O4'-C1'-N1	12.42	118.14	108.20
1	N	1117	A	C5-N7-C8	12.42	110.11	103.90
1	N	715	A	N1-C6-N6	12.41	126.05	118.60
1	N	556	C	O4'-C1'-N1	12.41	118.13	108.20
1	N	282	A	N1-C2-N3	12.40	135.50	129.30
1	N	718	A	N7-C8-N9	-12.40	107.60	113.80
1	N	1133	G	N1-C6-O6	12.40	127.34	119.90
1	N	59	A	C5-C6-N1	-12.39	111.50	117.70
1	N	425	G	P-O5'-C5'	12.39	140.73	120.90
1	N	1142	G	C6-C5-N7	-12.39	122.97	130.40
1	N	384	G	N1-C6-O6	12.38	127.33	119.90
1	N	941	G	N1-C6-O6	12.38	127.33	119.90
1	N	714	G	C5-C6-O6	-12.38	121.17	128.60
1	N	592	G	C5-C6-O6	-12.38	121.17	128.60
1	N	320	A	N1-C6-N6	12.37	126.03	118.60
1	N	836	G	C5-C6-O6	-12.37	121.18	128.60
1	N	1324	A	N1-C6-N6	12.37	126.02	118.60
1	N	206	C	C5-C6-N1	12.36	127.18	121.00
1	N	366	A	N1-C6-N6	12.36	126.02	118.60
1	N	1360	A	C6-C5-N7	-12.36	123.65	132.30
1	N	585	G	O4'-C1'-N9	12.36	118.08	108.20
1	N	142	G	C8-N9-C4	-12.35	101.46	106.40
1	N	460	A	C5-C6-N6	-12.35	113.82	123.70
1	N	715	A	C5-N7-C8	12.34	110.07	103.90
1	N	1270	G	N1-C6-O6	12.34	127.30	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1525	G	C5-C6-O6	-12.34	121.20	128.60
1	N	1433	A	N7-C8-N9	-12.33	107.63	113.80
1	N	1343	G	C5-C6-O6	-12.32	121.20	128.60
1	N	1259	C	C5-C6-N1	12.32	127.16	121.00
1	N	22	G	N3-C2-N2	12.32	128.53	119.90
1	N	729	A	N1-C6-N6	12.31	125.99	118.60
1	N	1162	C	N3-C4-C5	-12.31	116.97	121.90
1	N	147	G	C5-C6-O6	-12.31	121.22	128.60
1	N	1526	G	C5-C6-O6	-12.31	121.22	128.60
1	N	1107	C	O4'-C1'-N1	12.30	118.04	108.20
1	N	1290	G	N1-C6-O6	12.30	127.28	119.90
1	N	109	A	C2-N3-C4	12.30	116.75	110.60
1	N	703	G	N1-C2-N3	-12.30	116.52	123.90
1	N	869	G	N1-C2-N3	-12.29	116.53	123.90
1	N	1109	C	N3-C4-C5	-12.29	116.98	121.90
1	N	1229	A	C5-C6-N6	-12.29	113.87	123.70
1	N	319	G	C5-N7-C8	-12.28	98.16	104.30
1	N	546	A	N1-C6-N6	12.28	125.97	118.60
1	N	731	G	N3-C2-N2	12.28	128.50	119.90
1	N	1434	A	O4'-C1'-N9	12.28	118.02	108.20
1	N	156	C	O4'-C1'-N1	12.28	118.02	108.20
1	N	1028	C	O4'-C1'-N1	12.28	118.02	108.20
1	N	246	A	N1-C6-N6	12.27	125.96	118.60
1	N	371	A	C5-C6-N1	-12.27	111.56	117.70
1	N	844	G	N3-C2-N2	12.27	128.49	119.90
1	N	87	C	O4'-C1'-N1	12.27	118.02	108.20
1	N	764	C	O4'-C1'-N1	12.27	118.01	108.20
1	N	95	C	N3-C4-C5	-12.27	116.99	121.90
1	N	1245	C	O4'-C1'-N1	12.27	118.01	108.20
1	N	406	G	C6-C5-N7	-12.26	123.04	130.40
1	N	607	A	P-O5'-C5'	12.26	140.52	120.90
1	N	495	A	P-O3'-C3'	12.26	134.41	119.70
1	N	727	G	N1-C6-O6	12.26	127.26	119.90
1	N	1108	G	C5-C6-N1	-12.26	105.37	111.50
1	N	1295	U	O4'-C1'-N1	12.26	118.01	108.20
1	N	1139	G	P-O3'-C3'	12.26	134.41	119.70
1	N	1231	G	C5-C6-O6	-12.26	121.25	128.60
1	N	145	G	C8-N9-C4	-12.25	101.50	106.40
1	N	459	A	N1-C6-N6	12.25	125.95	118.60
1	N	569	C	N3-C4-N4	12.25	126.58	118.00
1	N	1316	G	N1-C6-O6	12.25	127.25	119.90
1	N	451	A	C1'-O4'-C4'	-12.25	100.10	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	541	G	O4'-C1'-N9	12.25	118.00	108.20
1	N	391	G	N1-C6-O6	12.24	127.25	119.90
1	N	454	G	C5-C6-O6	-12.24	121.25	128.60
1	N	804	U	O4'-C1'-N1	12.23	117.98	108.20
1	N	728	A	C5-C6-N6	-12.23	113.92	123.70
1	N	661	G	C5-C6-O6	-12.22	121.27	128.60
1	N	1090	U	O4'-C1'-N1	12.22	117.98	108.20
1	N	41	G	N3-C2-N2	12.21	128.45	119.90
1	N	861	G	C5-C6-O6	-12.21	121.27	128.60
1	N	1064	G	C5-C6-O6	-12.21	121.28	128.60
1	N	457	G	N1-C6-O6	12.20	127.22	119.90
1	N	674	G	C5-C6-O6	-12.20	121.28	128.60
1	N	786	G	C5-C6-O6	-12.19	121.28	128.60
1	N	1339	A	C8-N9-C4	-12.19	100.93	105.80
1	N	262	A	C4-C5-C6	12.18	123.09	117.00
1	N	434	U	C5-C4-O4	-12.18	118.59	125.90
1	N	1348	U	N3-C4-C5	-12.18	107.29	114.60
1	N	1130	A	C5-C6-N6	-12.18	113.96	123.70
1	N	1250	A	P-O5'-C5'	12.16	140.37	120.90
1	N	1297	G	C5-C6-O6	-12.16	121.30	128.60
1	N	265	G	P-O3'-C3'	12.16	134.29	119.70
1	N	899	C	N3-C4-C5	-12.16	117.04	121.90
1	N	1304	G	N1-C6-O6	12.15	127.19	119.90
1	N	563	A	C5-C6-N1	-12.15	111.62	117.70
1	N	985	C	O4'-C1'-N1	12.15	117.92	108.20
1	N	1263	C	N3-C4-N4	12.14	126.50	118.00
1	N	264	C	N3-C4-N4	12.13	126.49	118.00
1	N	846	G	C5-C6-O6	-12.13	121.32	128.60
1	N	1410	A	N1-C6-N6	12.13	125.88	118.60
1	N	81	A	C4-C5-C6	12.12	123.06	117.00
1	N	712	A	C4-C5-C6	12.12	123.06	117.00
1	N	1299	A	C5-N7-C8	12.12	109.96	103.90
1	N	973	G	C4-C5-N7	12.11	115.64	110.80
1	N	1016	A	C5-C6-N1	-12.10	111.65	117.70
1	N	341	C	O4'-C1'-N1	12.10	117.88	108.20
1	N	679	C	O4'-C1'-N1	12.10	117.88	108.20
1	N	64	G	C5-C6-N1	-12.09	105.45	111.50
1	N	1121	U	O4'-C1'-N1	12.08	117.86	108.20
1	N	1271	A	C5-C6-N6	-12.08	114.04	123.70
1	N	873	A	C5-C6-N1	-12.07	111.66	117.70
1	N	74	A	C5-C6-N1	-12.06	111.67	117.70
1	N	1217	C	C6-N1-C2	-12.06	115.48	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	257	G	C5-C6-O6	-12.05	121.37	128.60
1	N	1020	G	N1-C2-N3	-12.05	116.67	123.90
1	N	470	C	N3-C4-N4	12.05	126.44	118.00
1	N	1131	G	N1-C6-O6	12.05	127.13	119.90
1	N	794	A	N1-C6-N6	12.04	125.83	118.60
1	N	1426	G	C5-C6-O6	-12.05	121.37	128.60
1	N	927	G	N1-C6-O6	12.04	127.13	119.90
1	N	462	G	C5-C6-O6	-12.04	121.38	128.60
1	N	811	C	O4'-C1'-N1	12.04	117.83	108.20
1	N	1409	C	N3-C4-N4	12.04	126.43	118.00
1	N	1417	G	C4-C5-N7	12.03	115.61	110.80
1	N	1252	A	N1-C6-N6	12.03	125.82	118.60
1	N	602	A	N1-C6-N6	12.02	125.81	118.60
1	N	373	A	N1-C2-N3	-12.02	123.29	129.30
1	N	509	A	C6-C5-N7	-12.02	123.89	132.30
1	N	526	C	O4'-C1'-N1	12.02	117.81	108.20
1	N	1151	A	N7-C8-N9	-12.02	107.79	113.80
1	N	1312	G	C5-C6-O6	-12.02	121.39	128.60
1	N	303	A	N1-C6-N6	12.01	125.81	118.60
1	N	908	A	C5-C6-N1	-12.01	111.70	117.70
1	N	1404	C	N3-C4-N4	12.01	126.41	118.00
1	N	1438	G	N1-C6-O6	12.01	127.10	119.90
1	N	83	C	O4'-C1'-N1	12.00	117.80	108.20
1	N	686	U	O4'-C1'-N1	12.00	117.80	108.20
1	N	963	G	C8-N9-C4	-11.99	101.61	106.40
1	N	1518	A	C5-N7-C8	11.99	109.89	103.90
1	N	220	G	C6-C5-N7	-11.99	123.21	130.40
1	N	404	G	C5-C6-O6	-11.99	121.41	128.60
1	N	151	A	C4-C5-C6	11.98	122.99	117.00
1	N	336	A	C5-C6-N1	-11.98	111.71	117.70
1	N	983	A	C4-C5-C6	11.98	122.99	117.00
1	N	1506	U	N3-C4-C5	-11.98	107.41	114.60
1	N	212	G	P-O3'-C3'	11.97	134.06	119.70
1	N	1504	G	C5-C6-O6	-11.96	121.42	128.60
1	N	158	G	N1-C6-O6	11.96	127.08	119.90
1	N	428	G	C4-C5-N7	-11.96	106.02	110.80
1	N	927	G	C5-C6-O6	-11.96	121.42	128.60
1	N	1252	A	C4-C5-C6	11.96	122.98	117.00
1	N	1323	G	C4-C5-C6	11.95	125.97	118.80
1	N	1433	A	C8-N9-C4	11.95	110.58	105.80
1	N	1332	A	N1-C2-N3	11.94	135.27	129.30
1	N	1267	C	C2-N3-C4	11.94	125.87	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	210	C	O4'-C1'-N1	11.93	117.75	108.20
1	N	286	C	N3-C4-C5	-11.91	117.13	121.90
1	N	1033	G	C5-N7-C8	11.90	110.25	104.30
1	N	1323	G	C5-C6-N1	-11.90	105.55	111.50
1	N	523	A	N1-C6-N6	11.89	125.74	118.60
1	N	1160	G	O4'-C1'-N9	11.89	117.72	108.20
1	N	1143	G	C6-C5-N7	-11.89	123.27	130.40
1	N	928	G	N3-C2-N2	11.89	128.22	119.90
1	N	452	A	N1-C6-N6	11.88	125.73	118.60
1	N	1221	G	N1-C6-O6	11.88	127.03	119.90
1	N	381	C	O4'-C1'-N1	11.87	117.70	108.20
1	N	509	A	N1-C2-N3	11.87	135.23	129.30
1	N	1303	C	C2-N3-C4	11.87	125.83	119.90
1	N	38	G	C4-C5-C6	11.86	125.92	118.80
1	N	1378	C	N3-C4-N4	11.86	126.31	118.00
1	N	764	C	N3-C4-C5	-11.86	117.16	121.90
1	N	1334	G	N7-C8-N9	11.86	119.03	113.10
1	N	430	A	N1-C6-N6	11.85	125.71	118.60
1	N	516	U	C5-C4-O4	-11.85	118.79	125.90
1	N	891	U	O4'-C1'-N1	11.85	117.68	108.20
1	N	1155	A	N1-C6-N6	11.85	125.71	118.60
1	N	214	C	O4'-C1'-N1	11.85	117.68	108.20
1	N	427	U	C6-N1-C2	-11.85	113.89	121.00
1	N	352	C	C5-C4-N4	-11.84	111.91	120.20
1	N	111	G	C5-C6-O6	-11.84	121.50	128.60
1	N	1489	G	C5-C6-O6	-11.84	121.50	128.60
1	N	468	A	P-O3'-C3'	11.83	133.90	119.70
1	N	262	A	C5-C6-N6	-11.83	114.23	123.70
1	N	73	C	C5-C4-N4	-11.83	111.92	120.20
1	N	1037	C	C5-C4-N4	-11.83	111.92	120.20
1	N	122	G	C6-C5-N7	-11.83	123.30	130.40
1	N	1332	A	N1-C6-N6	11.83	125.69	118.60
1	N	496	A	N1-C6-N6	11.82	125.69	118.60
1	N	281	G	P-O3'-C3'	11.82	133.88	119.70
1	N	1242	G	P-O5'-C5'	11.82	139.81	120.90
1	N	1184	G	C5-C6-N1	-11.80	105.60	111.50
1	N	38	G	O4'-C1'-N9	11.80	117.64	108.20
1	N	790	A	C5-C6-N1	-11.79	111.81	117.70
1	N	866	C	C6-N1-C2	11.79	125.02	120.30
1	N	1297	G	N1-C6-O6	11.79	126.97	119.90
1	N	144	G	C5-C6-O6	-11.79	121.53	128.60
1	N	1170	A	N1-C6-N6	11.79	125.67	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1061	G	C5-C6-O6	-11.78	121.53	128.60
1	N	1228	C	O4'-C1'-N1	11.78	117.63	108.20
1	N	1251	A	O4'-C1'-N9	11.79	117.63	108.20
1	N	243	A	O4'-C1'-N9	11.78	117.63	108.20
1	N	1332	A	C5-C6-N6	-11.78	114.28	123.70
1	N	1490	U	O4'-C1'-N1	11.78	117.62	108.20
1	N	1324	A	O4'-C1'-N9	11.77	117.61	108.20
1	N	188	C	C6-N1-C2	-11.76	115.59	120.30
1	N	818	G	C5-C6-O6	-11.76	121.54	128.60
1	N	796	C	C4-C5-C6	11.75	123.28	117.40
1	N	1426	G	N1-C6-O6	11.75	126.95	119.90
1	N	187	G	N1-C6-O6	11.75	126.95	119.90
1	N	1241	G	P-O5'-C5'	11.75	139.70	120.90
1	N	1357	A	C4-C5-C6	11.74	122.87	117.00
1	N	783	C	N3-C4-C5	-11.73	117.21	121.90
1	N	1333	A	N1-C6-N6	11.72	125.63	118.60
1	N	879	C	N3-C4-N4	11.72	126.20	118.00
1	N	975	A	C5-C6-N6	-11.72	114.32	123.70
1	N	1143	G	O4'-C1'-N9	11.72	117.57	108.20
1	N	574	A	C5-C6-N1	-11.71	111.84	117.70
1	N	1499	A	C5-N7-C8	11.71	109.76	103.90
1	N	341	C	C6-N1-C2	-11.71	115.62	120.30
1	N	258	G	N1-C6-O6	11.70	126.92	119.90
1	N	1080	A	N9-C4-C5	11.70	110.48	105.80
1	N	1219	A	N1-C6-N6	11.70	125.62	118.60
1	N	350	G	N1-C6-O6	11.70	126.92	119.90
1	N	1166	G	N3-C2-N2	11.70	128.09	119.90
1	N	924	C	O4'-C1'-N1	11.69	117.56	108.20
1	N	406	G	C4-C5-N7	11.68	115.47	110.80
1	N	814	A	P-O3'-C3'	11.68	133.72	119.70
1	N	1517	G	N1-C6-O6	11.68	126.91	119.90
1	N	1510	C	O4'-C1'-N1	11.67	117.54	108.20
1	N	714	G	N1-C6-O6	11.67	126.90	119.90
1	N	1361	G	C4-C5-N7	-11.67	106.13	110.80
1	N	1339	A	C5-C6-N6	-11.66	114.37	123.70
1	N	153	C	N3-C4-N4	11.66	126.16	118.00
1	N	734	G	N1-C6-O6	11.66	126.90	119.90
1	N	732	C	N3-C4-N4	11.66	126.16	118.00
1	N	927	G	N7-C8-N9	-11.65	107.28	113.10
1	N	899	C	N3-C4-N4	11.65	126.15	118.00
1	N	400	C	O4'-C1'-N1	11.64	117.51	108.20
1	N	1388	C	O4'-C1'-N1	11.64	117.51	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1417	G	N1-C6-O6	11.64	126.88	119.90
1	N	149	A	C5-C6-N1	-11.63	111.88	117.70
1	N	1027	C	C6-N1-C2	-11.62	115.65	120.30
1	N	450	G	C4-C5-N7	11.61	115.44	110.80
1	N	1196	A	N1-C6-N6	11.61	125.57	118.60
1	N	396	C	C2-N3-C4	11.61	125.70	119.90
1	N	403	C	N3-C4-C5	-11.61	117.26	121.90
1	N	760	G	N3-C2-N2	11.61	128.02	119.90
1	N	461	A	N1-C2-N3	11.60	135.10	129.30
1	N	461	A	N1-C6-N6	11.60	125.56	118.60
1	N	1066	C	C5-C4-N4	-11.59	112.09	120.20
1	N	496	A	C2-N3-C4	-11.59	104.81	110.60
1	N	740	U	O4'-C1'-N1	11.58	117.47	108.20
1	N	230	G	C2-N3-C4	11.58	117.69	111.90
1	N	1496	C	C5-C6-N1	11.58	126.79	121.00
1	N	25	C	C6-N1-C2	11.57	124.93	120.30
1	N	928	G	C2-N3-C4	11.57	117.69	111.90
1	N	361	G	N1-C6-O6	11.57	126.84	119.90
1	N	1211	U	O4'-C1'-N1	11.57	117.45	108.20
1	N	808	C	N3-C4-N4	11.57	126.10	118.00
1	N	1317	C	C5-C6-N1	11.57	126.78	121.00
1	N	62	U	C5-C6-N1	11.56	128.48	122.70
1	N	938	A	C4-C5-C6	11.56	122.78	117.00
1	N	309	A	N1-C6-N6	11.56	125.54	118.60
1	N	1303	C	N3-C4-N4	11.55	126.09	118.00
1	N	1058	G	N1-C2-N3	-11.55	116.97	123.90
1	N	895	G	O4'-C1'-N9	11.55	117.44	108.20
1	N	1176	A	C5-C6-N1	-11.55	111.93	117.70
1	N	532	A	P-O3'-C3'	11.54	133.55	119.70
1	N	1232	U	C5-C4-O4	-11.54	118.97	125.90
1	N	254	G	C5-C6-O6	-11.54	121.68	128.60
1	N	1362	A	C8-N9-C4	-11.54	101.19	105.80
1	N	336	A	C5-C6-N6	-11.54	114.47	123.70
1	N	349	A	N1-C6-N6	11.53	125.52	118.60
1	N	465	A	N1-C6-N6	11.53	125.52	118.60
1	N	807	A	N1-C6-N6	11.52	125.51	118.60
1	N	922	G	C5-C6-N1	-11.52	105.74	111.50
1	N	1049	U	O4'-C1'-N1	11.52	117.42	108.20
1	N	583	A	O4'-C1'-N9	11.52	117.42	108.20
1	N	1468	A	N1-C6-N6	11.51	125.51	118.60
1	N	1203	C	N3-C4-N4	11.51	126.06	118.00
1	N	1371	G	N1-C2-N3	-11.51	117.00	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1369	C	O4'-C1'-N1	11.50	117.40	108.20
1	N	835	U	O4'-C1'-N1	11.50	117.40	108.20
1	N	784	A	N1-C6-N6	11.49	125.50	118.60
1	N	11	G	C5-C6-O6	-11.49	121.71	128.60
1	N	1191	A	C8-N9-C4	-11.49	101.20	105.80
1	N	40	C	C5-C4-N4	-11.48	112.16	120.20
1	N	232	G	P-O3'-C3'	11.48	133.48	119.70
1	N	1214	C	C5-C6-N1	11.48	126.74	121.00
1	N	775	G	O4'-C1'-N9	11.48	117.38	108.20
1	N	788	U	C6-N1-C2	-11.47	114.11	121.00
1	N	432	A	C4-C5-C6	11.47	122.74	117.00
1	N	556	C	C6-N1-C2	-11.47	115.71	120.30
1	N	1184	G	C4-C5-C6	11.47	125.68	118.80
1	N	15	G	N3-C2-N2	11.47	127.93	119.90
1	N	334	C	N3-C4-C5	-11.47	117.31	121.90
1	N	486	U	N3-C4-O4	11.47	127.43	119.40
1	N	184	G	C6-C5-N7	-11.46	123.52	130.40
1	N	339	C	C6-N1-C2	-11.46	115.72	120.30
1	N	135	C	C4-C5-C6	11.46	123.13	117.40
1	N	32	A	N1-C6-N6	11.46	125.48	118.60
1	N	726	C	O4'-C1'-N1	11.46	117.36	108.20
1	N	641	U	P-O3'-C3'	11.45	133.44	119.70
1	N	1031	C	N3-C4-N4	11.45	126.02	118.00
1	N	1164	G	C8-N9-C4	-11.45	101.82	106.40
1	N	449	G	N1-C6-O6	11.45	126.77	119.90
1	N	760	G	C6-N1-C2	11.44	131.97	125.10
1	N	627	G	N1-C6-O6	11.44	126.76	119.90
1	N	406	G	N1-C6-O6	11.44	126.76	119.90
1	N	25	C	N1-C2-O2	11.43	125.76	118.90
1	N	1509	C	O4'-C1'-N1	11.42	117.34	108.20
1	N	648	A	N9-C4-C5	11.42	110.37	105.80
1	N	1068	G	N1-C6-O6	11.42	126.75	119.90
1	N	1427	C	O4'-C1'-N1	11.42	117.33	108.20
1	N	82	G	C5-C6-O6	-11.41	121.75	128.60
1	N	829	G	C8-N9-C4	-11.41	101.83	106.40
1	N	1034	G	C5-C6-O6	-11.41	121.75	128.60
1	N	1103	C	O4'-C1'-N1	11.41	117.33	108.20
1	N	237	G	C5-C6-O6	-11.41	121.76	128.60
1	N	792	A	C4-C5-C6	11.40	122.70	117.00
1	N	172	A	C4-C5-C6	11.40	122.70	117.00
1	N	1284	C	O4'-C1'-N1	11.39	117.31	108.20
1	N	408	A	C2-N3-C4	-11.39	104.91	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1312	G	N1-C6-O6	11.39	126.73	119.90
1	N	799	G	N1-C6-O6	11.38	126.73	119.90
1	N	352	C	C2-N1-C1'	11.38	131.31	118.80
1	N	467	U	O4'-C1'-N1	11.38	117.30	108.20
1	N	1043	G	N3-C4-C5	-11.38	122.91	128.60
1	N	360	G	N3-C2-N2	11.37	127.86	119.90
1	N	525	C	O4'-C1'-N1	11.37	117.30	108.20
1	N	1520	C	C6-N1-C2	-11.37	115.75	120.30
1	N	40	C	N3-C4-N4	11.37	125.96	118.00
1	N	1233	G	N1-C2-N3	-11.36	117.08	123.90
1	N	1318	A	C5-C6-N6	-11.37	114.61	123.70
1	N	1478	U	N3-C2-O2	11.37	130.16	122.20
1	N	1093	A	N9-C4-C5	11.36	110.34	105.80
1	N	969	A	O4'-C1'-N9	11.36	117.29	108.20
1	N	1418	A	P-O3'-C3'	11.36	133.33	119.70
1	N	276	G	N1-C6-O6	11.36	126.71	119.90
1	N	1501	C	O4'-C1'-N1	11.35	117.28	108.20
1	N	501	C	O4'-C1'-N1	11.35	117.28	108.20
1	N	773	G	N1-C2-N3	-11.34	117.09	123.90
1	N	564	C	C5-C6-N1	11.34	126.67	121.00
1	N	808	C	N3-C4-C5	-11.34	117.36	121.90
1	N	859	G	N9-C4-C5	-11.34	100.87	105.40
1	N	1531	A	P-O5'-C5'	11.33	139.03	120.90
1	N	270	A	C5-C6-N1	-11.33	112.03	117.70
1	N	935	A	C4-C5-C6	11.33	122.66	117.00
1	N	1448	C	C6-N1-C2	-11.33	115.77	120.30
1	N	437	U	O4'-C1'-N1	11.32	117.26	108.20
1	N	1195	C	O4'-C1'-N1	11.31	117.25	108.20
1	N	251	G	N1-C6-O6	11.30	126.68	119.90
1	N	1216	A	C5-C6-N6	-11.30	114.66	123.70
1	N	1163	A	C5-C6-N6	-11.29	114.66	123.70
1	N	1494	G	N1-C6-O6	11.29	126.68	119.90
1	N	1489	G	C4-C5-N7	-11.29	106.28	110.80
1	N	99	C	C5-C4-N4	-11.29	112.30	120.20
1	N	1092	A	O4'-C1'-N9	11.28	117.23	108.20
1	N	773	G	N7-C8-N9	-11.28	107.46	113.10
1	N	1280	A	N1-C6-N6	11.28	125.37	118.60
1	N	618	C	N3-C4-N4	11.28	125.89	118.00
1	N	1168	U	O4'-C1'-N1	11.28	117.22	108.20
1	N	336	A	O4'-C1'-N9	11.27	117.22	108.20
1	N	893	C	C6-N1-C2	-11.27	115.79	120.30
1	N	635	A	C5-C6-N1	-11.27	112.07	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	875	U	O4'-C1'-N1	11.27	117.21	108.20
1	N	253	A	C5-C6-N1	-11.26	112.07	117.70
1	N	515	G	N1-C6-O6	11.26	126.66	119.90
1	N	825	A	N1-C6-N6	11.26	125.36	118.60
1	N	46	G	C5-C6-O6	-11.26	121.85	128.60
1	N	226	G	C8-N9-C4	-11.26	101.90	106.40
1	N	165	G	C6-C5-N7	-11.25	123.65	130.40
1	N	385	C	O4'-C1'-N1	11.25	117.20	108.20
1	N	1172	C	O4'-C1'-N1	11.25	117.20	108.20
1	N	1499	A	C5-C6-N1	-11.25	112.07	117.70
1	N	846	G	N1-C6-O6	11.25	126.65	119.90
1	N	1067	A	C8-N9-C4	-11.25	101.30	105.80
1	N	1038	C	N3-C4-N4	11.24	125.87	118.00
1	N	682	G	N1-C6-O6	11.24	126.64	119.90
1	N	413	G	C8-N9-C4	-11.24	101.91	106.40
1	N	247	G	N3-C4-C5	11.23	134.22	128.60
1	N	1277	C	O4'-C1'-N1	11.22	117.17	108.20
1	N	881	G	N1-C6-O6	11.22	126.63	119.90
1	N	1247	U	O4'-C1'-N1	11.21	117.17	108.20
1	N	600	A	C8-N9-C4	-11.21	101.31	105.80
1	N	563	A	C4-C5-C6	11.21	122.60	117.00
1	N	22	G	N1-C6-O6	11.21	126.62	119.90
1	N	1305	G	N1-C6-O6	11.21	126.62	119.90
1	N	1002	G	N1-C6-O6	11.20	126.62	119.90
1	N	1308	U	O4'-C1'-N1	11.20	117.16	108.20
1	N	109	A	P-O3'-C3'	11.20	133.14	119.70
1	N	966	G	N9-C4-C5	-11.20	100.92	105.40
1	N	1109	C	C2-N3-C4	11.19	125.49	119.90
1	N	898	G	N1-C6-O6	11.19	126.61	119.90
1	N	1456	A	C5-C6-N6	-11.19	114.75	123.70
1	N	798	U	N3-C4-O4	11.19	127.23	119.40
1	N	510	A	N1-C6-N6	11.18	125.31	118.60
1	N	1475	G	N1-C6-O6	11.18	126.61	119.90
1	N	931	C	C5-C4-N4	-11.18	112.38	120.20
1	N	561	U	O4'-C1'-N1	11.17	117.14	108.20
1	N	1015	G	C2-N3-C4	11.17	117.49	111.90
1	N	420	U	O4'-C1'-N1	11.17	117.13	108.20
1	N	648	A	N1-C6-N6	11.16	125.30	118.60
1	N	1260	G	C5-C6-N1	-11.16	105.92	111.50
1	N	1189	U	O4'-C1'-N1	11.16	117.13	108.20
1	N	582	C	P-O5'-C5'	11.15	138.73	120.90
1	N	139	A	C6-N1-C2	11.14	125.28	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1331	G	O4'-C1'-N9	11.14	117.11	108.20
1	N	321	A	C5-C6-N1	-11.14	112.13	117.70
1	N	848	C	C6-N1-C2	-11.14	115.84	120.30
1	N	1532	U	P-O3'-C3'	11.14	133.06	119.70
1	N	553	A	C5-C6-N6	-11.14	114.79	123.70
1	N	132	C	N3-C4-C5	-11.13	117.45	121.90
1	N	941	G	C5-C6-O6	-11.13	121.92	128.60
1	N	135	C	N3-C4-N4	11.13	125.79	118.00
1	N	1046	A	C8-N9-C4	-11.13	101.35	105.80
1	N	1498	U	O4'-C1'-N1	11.13	117.10	108.20
1	N	18	C	N3-C4-C5	-11.12	117.45	121.90
1	N	279	A	C2-N3-C4	-11.12	105.04	110.60
1	N	1332	A	N9-C4-C5	11.12	110.25	105.80
1	N	658	C	O4'-C1'-N1	11.12	117.10	108.20
1	N	900	A	C5-C6-N1	-11.12	112.14	117.70
1	N	766	A	C6-N1-C2	-11.12	111.93	118.60
1	N	622	A	C8-N9-C4	-11.12	101.35	105.80
1	N	415	A	N1-C6-N6	11.12	125.27	118.60
1	N	77	A	C4-C5-C6	11.11	122.55	117.00
1	N	1062	U	O4'-C1'-N1	11.10	117.08	108.20
1	N	726	C	N3-C4-C5	-11.10	117.46	121.90
1	N	380	G	C4-C5-N7	-11.09	106.36	110.80
1	N	690	G	N3-C2-N2	11.09	127.66	119.90
1	N	338	A	C5-C6-N6	-11.09	114.83	123.70
1	N	297	G	N7-C8-N9	-11.08	107.56	113.10
1	N	954	G	C5-C6-N1	-11.08	105.96	111.50
1	N	255	G	C5-C6-O6	-11.07	121.96	128.60
1	N	370	C	O4'-C1'-N1	11.07	117.06	108.20
1	N	666	G	N1-C2-N3	-11.07	117.26	123.90
1	N	747	A	N1-C6-N6	11.07	125.24	118.60
1	N	1055	A	C6-N1-C2	-11.07	111.96	118.60
1	N	201	G	P-O3'-C3'	11.06	132.97	119.70
1	N	548	G	C6-C5-N7	-11.06	123.76	130.40
1	N	687	A	C5-C6-N1	-11.06	112.17	117.70
1	N	94	G	C5-C6-O6	-11.06	121.96	128.60
1	N	107	G	N1-C2-N3	-11.06	117.26	123.90
1	N	163	C	C2-N3-C4	11.06	125.43	119.90
1	N	763	G	C8-N9-C4	-11.06	101.98	106.40
1	N	851	G	N1-C6-O6	11.06	126.53	119.90
1	N	788	U	O4'-C1'-N1	11.06	117.05	108.20
1	N	26	A	C5-C6-N6	-11.05	114.86	123.70
1	N	573	A	C5-C6-N6	-11.05	114.86	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	799	G	C5-C6-O6	-11.05	121.97	128.60
1	N	1222	G	N1-C6-O6	11.04	126.52	119.90
1	N	308	C	C2-N3-C4	11.04	125.42	119.90
1	N	1170	A	N7-C8-N9	11.03	119.32	113.80
1	N	195	A	O4'-C1'-N9	11.03	117.02	108.20
1	N	199	A	C1'-O4'-C4'	11.03	118.72	109.90
1	N	250	A	C4-C5-C6	11.02	122.51	117.00
1	N	1109	C	O4'-C1'-N1	11.02	117.01	108.20
1	N	1232	U	N3-C4-O4	11.02	127.11	119.40
1	N	41	G	C2-N3-C4	11.01	117.41	111.90
1	N	483	C	N3-C4-C5	-11.01	117.49	121.90
1	N	778	G	O4'-C1'-N9	11.01	117.01	108.20
1	N	624	C	C6-N1-C2	11.01	124.70	120.30
1	N	1158	C	N3-C4-C5	-11.01	117.50	121.90
1	N	135	C	O4'-C1'-N1	11.01	117.00	108.20
1	N	352	C	C6-N1-C1'	-11.01	107.59	120.80
1	N	1233	G	N3-C2-N2	11.00	127.60	119.90
1	N	227	G	N1-C2-N3	-11.00	117.30	123.90
1	N	954	G	C5-C6-O6	-11.00	122.00	128.60
1	N	1300	G	P-O3'-C3'	11.00	132.90	119.70
1	N	1325	C	C2-N3-C4	11.00	125.40	119.90
1	N	1117	A	C4-C5-N7	-10.99	105.20	110.70
1	N	611	C	N3-C4-C5	-10.99	117.50	121.90
1	N	63	C	N3-C4-N4	10.98	125.69	118.00
1	N	1329	A	N1-C6-N6	10.98	125.19	118.60
1	N	1094	G	C8-N9-C4	-10.98	102.01	106.40
1	N	428	G	C4-C5-C6	10.98	125.39	118.80
1	N	984	C	N3-C4-N4	10.98	125.69	118.00
1	N	1275	A	C6-C5-N7	-10.98	124.61	132.30
1	N	743	A	C4-C5-C6	10.98	122.49	117.00
1	N	785	G	C5-C6-O6	-10.98	122.01	128.60
1	N	487	A	C5-C6-N6	-10.97	114.92	123.70
1	N	175	C	O4'-C1'-N1	10.97	116.98	108.20
1	N	213	G	N1-C6-O6	10.97	126.48	119.90
1	N	1243	C	N3-C4-N4	10.97	125.68	118.00
1	N	384	G	C5-N7-C8	-10.97	98.81	104.30
1	N	74	A	C4-C5-C6	10.96	122.48	117.00
1	N	337	G	C5-C6-O6	-10.97	122.02	128.60
1	N	859	G	C5-C6-O6	-10.96	122.02	128.60
1	N	732	C	N3-C4-C5	-10.96	117.52	121.90
1	N	1473	G	C6-C5-N7	-10.96	123.83	130.40
1	N	752	G	C5-C6-O6	-10.95	122.03	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	948	C	C5-C4-N4	-10.95	112.53	120.20
1	N	531	U	C5'-C4'-O4'	10.95	122.24	109.10
1	N	738	C	O4'-C1'-N1	10.95	116.96	108.20
1	N	977	A	C5-C6-N1	-10.95	112.22	117.70
1	N	1042	A	C5-C6-N6	-10.95	114.94	123.70
1	N	1440	U	N3-C4-C5	-10.94	108.03	114.60
1	N	168	G	N1-C6-O6	10.94	126.46	119.90
1	N	585	G	N1-C6-O6	10.94	126.46	119.90
1	N	800	G	N3-C2-N2	10.94	127.56	119.90
1	N	412	A	C5-C6-N1	-10.92	112.24	117.70
1	N	1317	C	O4'-C1'-N1	10.92	116.94	108.20
1	N	1096	C	O4'-C1'-N1	10.92	116.94	108.20
1	N	373	A	O4'-C1'-N9	10.91	116.93	108.20
1	N	498	A	C8-N9-C4	-10.91	101.44	105.80
1	N	1236	A	C5-C6-N1	-10.91	112.25	117.70
1	N	1534	A	C4-C5-C6	10.91	122.45	117.00
1	N	192	A	C8-N9-C4	-10.91	101.44	105.80
1	N	316	C	C5'-C4'-C3'	-10.90	98.55	116.00
1	N	435	A	C4-C5-C6	10.90	122.45	117.00
1	N	452	A	C5-C6-N1	-10.90	112.25	117.70
1	N	597	G	N3-C2-N2	10.90	127.53	119.90
1	N	823	C	N3-C4-C5	-10.90	117.54	121.90
1	N	1270	G	C5-C6-O6	-10.90	122.06	128.60
1	N	172	A	N3-C4-C5	-10.90	119.17	126.80
1	N	343	U	O4'-C1'-N1	10.90	116.92	108.20
1	N	787	A	N1-C6-N6	10.90	125.14	118.60
1	N	1068	G	C5-C6-O6	-10.90	122.06	128.60
1	N	1082	A	C8-N9-C4	-10.90	101.44	105.80
1	N	852	G	C4-C5-C6	10.90	125.34	118.80
1	N	849	G	C5-C6-O6	-10.89	122.06	128.60
1	N	868	C	O4'-C1'-N1	10.89	116.91	108.20
1	N	168	G	C5-C6-O6	-10.88	122.07	128.60
1	N	425	G	C5-C6-O6	-10.88	122.07	128.60
1	N	1368	A	N1-C6-N6	10.88	125.13	118.60
1	N	1225	A	C5-C6-N6	-10.88	115.00	123.70
1	N	1430	A	N1-C2-N3	-10.87	123.86	129.30
1	N	510	A	C4-C5-N7	-10.87	105.26	110.70
1	N	1036	A	C5-C6-N6	-10.87	115.00	123.70
1	N	1156	G	N1-C6-O6	10.87	126.42	119.90
1	N	1507	A	O4'-C1'-N9	10.86	116.89	108.20
1	N	500	G	O4'-C1'-N9	10.86	116.89	108.20
1	N	1388	C	N3-C4-C5	-10.86	117.56	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	830	G	O4'-C1'-N9	10.86	116.89	108.20
1	N	1020	G	O4'-C1'-N9	10.86	116.89	108.20
1	N	1407	C	C5-C6-N1	10.86	126.43	121.00
1	N	721	G	N1-C6-O6	10.86	126.41	119.90
1	N	1357	A	C5-C6-N1	-10.85	112.27	117.70
1	N	45	G	N1-C6-O6	10.85	126.41	119.90
1	N	305	G	P-O3'-C3'	10.85	132.72	119.70
1	N	326	G	C5-C6-O6	-10.85	122.09	128.60
1	N	559	A	C5-C6-N6	-10.85	115.02	123.70
1	N	1485	U	O4'-C1'-N1	10.84	116.88	108.20
1	N	71	A	C4-C5-C6	10.84	122.42	117.00
1	N	378	G	O4'-C1'-N9	10.84	116.87	108.20
1	N	889	A	C2-N3-C4	-10.84	105.18	110.60
1	N	447	G	C5-C6-O6	-10.84	122.10	128.60
1	N	907	A	C4-C5-C6	10.84	122.42	117.00
1	N	1166	G	O4'-C1'-N9	10.84	116.87	108.20
1	N	1181	G	N1-C6-O6	10.84	126.40	119.90
1	N	1411	C	C2-N3-C4	10.83	125.32	119.90
1	N	976	G	C5-C6-N1	-10.83	106.09	111.50
1	N	203	G	N1-C6-O6	10.82	126.39	119.90
1	N	1116	U	C5-C4-O4	-10.82	119.41	125.90
1	N	67	C	O4'-C1'-N1	10.82	116.85	108.20
1	N	1220	G	O4'-C1'-N9	10.82	116.85	108.20
1	N	1320	C	O4'-C1'-N1	10.82	116.85	108.20
1	N	307	C	C6-N1-C2	-10.81	115.97	120.30
1	N	757	U	C2-N3-C4	-10.81	120.51	127.00
1	N	913	A	C2-N3-C4	10.81	116.00	110.60
1	N	177	G	N1-C6-O6	10.81	126.38	119.90
1	N	1403	C	N3-C4-C5	-10.81	117.58	121.90
1	N	298	A	P-O3'-C3'	10.80	132.66	119.70
1	N	973	G	N1-C6-O6	10.80	126.38	119.90
1	N	202	G	C5-C6-O6	-10.79	122.12	128.60
1	N	331	G	N3-C2-N2	10.80	127.46	119.90
1	N	38	G	C5-C6-N1	-10.79	106.10	111.50
1	N	1255	G	C6-N1-C2	10.79	131.57	125.10
1	N	382	A	O4'-C1'-N9	10.79	116.83	108.20
1	N	732	C	O4'-C1'-N1	10.78	116.83	108.20
1	N	1446	A	C5-C6-N1	-10.78	112.31	117.70
1	N	1331	G	P-O3'-C3'	10.78	132.64	119.70
1	N	1110	A	C5-C6-N1	-10.78	112.31	117.70
1	N	716	A	N1-C6-N6	10.78	125.06	118.60
1	N	969	A	C5-C6-N6	-10.77	115.08	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1292	G	N9-C4-C5	10.77	109.71	105.40
1	N	1434	A	C8-N9-C4	-10.77	101.49	105.80
1	N	1088	G	N1-C6-O6	10.77	126.36	119.90
1	N	1191	A	N1-C6-N6	10.76	125.06	118.60
1	N	307	C	C5-C6-N1	10.75	126.38	121.00
1	N	565	U	C5-C4-O4	-10.75	119.45	125.90
1	N	588	G	C5-C6-N1	10.75	116.87	111.50
1	N	107	G	C2-N3-C4	10.74	117.27	111.90
1	N	231	U	O4'-C1'-N1	10.74	116.79	108.20
1	N	620	C	O4'-C1'-N1	10.74	116.79	108.20
1	N	670	G	C5-C6-O6	-10.74	122.16	128.60
1	N	530	G	N1-C6-O6	10.73	126.34	119.90
1	N	1306	A	C5-C6-N6	-10.73	115.11	123.70
1	N	1004	A	C8-N9-C4	-10.73	101.51	105.80
1	N	1160	G	N9-C4-C5	-10.73	101.11	105.40
1	N	548	G	N1-C6-O6	10.73	126.33	119.90
1	N	38	G	N1-C6-O6	10.72	126.33	119.90
1	N	1167	A	N1-C6-N6	10.72	125.03	118.60
1	N	1252	A	O4'-C1'-N9	10.72	116.78	108.20
1	N	1254	A	C5-C6-N1	-10.72	112.34	117.70
1	N	557	G	P-O5'-C5'	10.71	138.04	120.90
1	N	844	G	O4'-C1'-N9	10.71	116.77	108.20
1	N	50	A	O4'-C1'-N9	10.71	116.77	108.20
1	N	788	U	C5-C6-N1	10.71	128.05	122.70
1	N	1106	G	C8-N9-C4	-10.71	102.12	106.40
1	N	1383	C	O4'-C1'-N1	10.71	116.77	108.20
1	N	492	C	O4'-C1'-N1	10.70	116.76	108.20
1	N	830	G	N1-C2-N3	-10.69	117.48	123.90
1	N	11	G	C6-C5-N7	-10.69	123.98	130.40
1	N	25	C	N1-C2-N3	-10.69	111.72	119.20
1	N	496	A	O4'-C1'-N9	10.69	116.75	108.20
1	N	1143	G	N1-C6-O6	10.69	126.31	119.90
1	N	579	A	C5-C6-N1	-10.69	112.36	117.70
1	N	1533	C	N3-C4-C5	-10.69	117.62	121.90
1	N	616	G	N7-C8-N9	10.69	118.44	113.10
1	N	45	G	O4'-C1'-N9	10.68	116.75	108.20
1	N	1181	G	C6-C5-N7	-10.68	123.99	130.40
1	N	124	C	C5-C4-N4	-10.68	112.73	120.20
1	N	1499	A	C4-C5-C6	10.68	122.34	117.00
1	N	206	C	N3-C4-N4	10.67	125.47	118.00
1	N	724	G	N9-C4-C5	-10.67	101.13	105.40
1	N	299	G	N1-C6-O6	10.67	126.30	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	633	G	N1-C2-N3	-10.66	117.50	123.90
1	N	848	C	N3-C4-C5	-10.66	117.63	121.90
1	N	181	A	N1-C6-N6	10.66	125.00	118.60
1	N	651	C	N3-C4-C5	-10.66	117.64	121.90
1	N	191	G	C6-C5-N7	-10.66	124.01	130.40
1	N	1158	C	N1-C2-O2	10.65	125.29	118.90
1	N	1274	A	N1-C6-N6	10.65	124.99	118.60
1	N	781	A	C4-C5-C6	10.65	122.33	117.00
1	N	927	G	C5-N7-C8	10.65	109.63	104.30
1	N	1145	A	C5-C6-N6	-10.65	115.18	123.70
1	N	316	C	C2-N3-C4	10.65	125.22	119.90
1	N	1226	C	C2-N3-C4	10.65	125.22	119.90
1	N	89	U	P-O3'-C3'	10.64	132.47	119.70
1	N	170	U	C5-C4-O4	-10.64	119.51	125.90
1	N	1399	C	O4'-C1'-N1	10.64	116.71	108.20
1	N	1142	G	N1-C2-N3	-10.64	117.52	123.90
1	N	355	C	C6-N1-C2	-10.64	116.05	120.30
1	N	1389	C	O4'-C1'-N1	10.63	116.71	108.20
1	N	678	U	C6-N1-C2	-10.63	114.62	121.00
1	N	838	G	C6-C5-N7	-10.63	124.02	130.40
1	N	864	A	N1-C6-N6	10.63	124.98	118.60
1	N	160	A	C5-C6-N1	-10.63	112.39	117.70
1	N	926	G	C4-C5-N7	-10.62	106.55	110.80
1	N	1443	C	C6-N1-C2	-10.62	116.05	120.30
1	N	631	C	O4'-C1'-N1	10.62	116.69	108.20
1	N	721	G	C5-C6-O6	-10.62	122.23	128.60
1	N	888	G	N1-C6-O6	10.62	126.27	119.90
1	N	1378	C	N3-C4-C5	-10.62	117.65	121.90
1	N	994	A	N1-C6-N6	10.62	124.97	118.60
1	N	939	G	O4'-C1'-N9	10.61	116.69	108.20
1	N	968	A	P-O3'-C3'	10.61	132.43	119.70
1	N	834	U	O4'-C1'-N1	10.60	116.68	108.20
1	N	329	A	N1-C6-N6	10.60	124.96	118.60
1	N	346	G	C2-N3-C4	10.60	117.20	111.90
1	N	718	A	C8-N9-C4	10.59	110.04	105.80
1	N	1172	C	C2-N3-C4	-10.59	114.61	119.90
1	N	392	C	O4'-C1'-N1	10.59	116.67	108.20
1	N	403	C	C2-N3-C4	10.58	125.19	119.90
1	N	557	G	P-O3'-C3'	10.58	132.40	119.70
1	N	395	C	O4'-C1'-N1	10.58	116.66	108.20
1	N	1336	C	O4'-C1'-N1	10.58	116.66	108.20
1	N	1116	U	O4'-C1'-N1	10.57	116.66	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	177	G	C2-N3-C4	10.57	117.19	111.90
1	N	336	A	C4-C5-C6	10.57	122.28	117.00
1	N	253	A	C4-C5-C6	10.57	122.28	117.00
1	N	769	G	C6-C5-N7	-10.57	124.06	130.40
1	N	888	G	P-O3'-C3'	10.57	132.38	119.70
1	N	1324	A	N9-C4-C5	-10.57	101.57	105.80
1	N	1483	A	N7-C8-N9	-10.57	108.52	113.80
1	N	244	U	O4'-C1'-N1	10.56	116.65	108.20
1	N	1292	G	C5-C6-O6	-10.56	122.26	128.60
1	N	1451	U	N1-C2-N3	10.56	121.23	114.90
1	N	357	G	N1-C2-N3	-10.56	117.57	123.90
1	N	456	A	C4-C5-N7	-10.56	105.42	110.70
1	N	819	A	N1-C6-N6	10.56	124.93	118.60
1	N	1103	C	N3-C4-C5	-10.56	117.68	121.90
1	N	1214	C	C6-N1-C2	-10.55	116.08	120.30
1	N	1216	A	C5-C6-N1	-10.55	112.42	117.70
1	N	1014	A	N9-C4-C5	10.55	110.02	105.80
1	N	380	G	N3-C4-N9	-10.55	119.67	126.00
1	N	1459	G	N1-C6-O6	10.55	126.23	119.90
1	N	411	A	C4-C5-C6	10.55	122.27	117.00
1	N	361	G	C5-C6-N1	-10.54	106.23	111.50
1	N	678	U	O4'-C1'-N1	10.54	116.64	108.20
1	N	797	C	O4'-C1'-N1	10.54	116.64	108.20
1	N	185	U	O4'-C1'-N1	10.54	116.63	108.20
1	N	762	U	O4'-C1'-N1	10.54	116.63	108.20
1	N	1375	A	C5-C6-N6	-10.54	115.27	123.70
1	N	1120	C	N3-C4-C5	-10.54	117.68	121.90
1	N	993	G	C5-C6-N1	-10.54	106.23	111.50
1	N	66	A	N1-C6-N6	10.54	124.92	118.60
1	N	315	A	C6-C5-N7	-10.53	124.93	132.30
1	N	1245	C	C6-N1-C2	-10.53	116.09	120.30
1	N	1033	G	N1-C6-O6	10.52	126.21	119.90
1	N	119	A	C6-C5-N7	-10.52	124.94	132.30
1	N	1348	U	C5-C4-O4	10.52	132.21	125.90
1	N	1441	A	C4-C5-N7	-10.52	105.44	110.70
1	N	316	C	O4'-C1'-N1	10.52	116.61	108.20
1	N	853	C	N3-C4-C5	-10.51	117.69	121.90
1	N	1193	G	C5-C6-O6	-10.51	122.29	128.60
1	N	1361	G	N1-C6-O6	10.51	126.21	119.90
1	N	862	C	C5-C4-N4	-10.51	112.84	120.20
1	N	867	G	O4'-C1'-N9	10.51	116.61	108.20
1	N	1251	A	C2-N3-C4	-10.51	105.35	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1469	C	O4'-C1'-N1	10.51	116.61	108.20
1	N	184	G	O4'-C1'-N9	10.50	116.60	108.20
1	N	1491	G	C5-C6-N1	-10.49	106.25	111.50
1	N	230	G	P-O3'-C3'	-10.49	107.12	119.70
1	N	756	C	O4'-C1'-N1	10.49	116.59	108.20
1	N	1099	G	O4'-C1'-N9	10.49	116.59	108.20
1	N	541	G	N3-C2-N2	10.48	127.24	119.90
1	N	93	U	P-O5'-C5'	10.48	137.67	120.90
1	N	1108	G	C4-C5-C6	10.48	125.09	118.80
1	N	447	G	N1-C6-O6	10.48	126.19	119.90
1	N	994	A	C4-C5-C6	10.47	122.24	117.00
1	N	832	G	C8-N9-C4	10.47	110.59	106.40
1	N	888	G	C6-N1-C2	10.47	131.38	125.10
1	N	1182	G	N1-C6-O6	10.47	126.18	119.90
1	N	493	A	C4-C5-C6	10.47	122.23	117.00
1	N	553	A	O4'-C1'-N9	10.47	116.57	108.20
1	N	681	A	C5-C6-N1	-10.47	112.47	117.70
1	N	152	A	N1-C6-N6	10.46	124.88	118.60
1	N	736	C	O4'-C1'-N1	10.46	116.56	108.20
1	N	523	A	C4-C5-C6	10.45	122.23	117.00
1	N	1398	A	C4-C5-C6	10.44	122.22	117.00
1	N	1292	G	N1-C6-O6	10.44	126.17	119.90
1	N	415	A	C5-C6-N1	-10.44	112.48	117.70
1	N	142	G	O4'-C1'-N9	10.44	116.55	108.20
1	N	119	A	C4-C5-C6	10.44	122.22	117.00
1	N	354	G	N1-C6-O6	10.44	126.16	119.90
1	N	1000	A	N1-C6-N6	10.44	124.86	118.60
1	N	493	A	C5-C6-N1	-10.44	112.48	117.70
1	N	432	A	N7-C8-N9	-10.43	108.58	113.80
1	N	879	C	O4'-C1'-N1	10.43	116.55	108.20
1	N	1080	A	N1-C6-N6	10.43	124.86	118.60
1	N	10	A	N1-C6-N6	10.43	124.86	118.60
1	N	28	A	N1-C6-N6	10.42	124.85	118.60
1	N	388	G	C5-C6-O6	-10.42	122.35	128.60
1	N	1314	C	O4'-C1'-N1	10.42	116.54	108.20
1	N	649	A	C5-C6-N6	-10.42	115.36	123.70
1	N	1244	G	C5-C6-O6	-10.41	122.36	128.60
1	N	90	C	N3-C4-C5	-10.40	117.74	121.90
1	N	1489	G	O4'-C1'-N9	10.40	116.52	108.20
1	N	413	G	N1-C6-O6	10.40	126.14	119.90
1	N	428	G	C5-N7-C8	10.40	109.50	104.30
1	N	1091	U	O4'-C1'-N1	10.40	116.52	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1231	G	O4'-C1'-N9	10.40	116.52	108.20
1	N	508	U	O4'-C1'-N1	10.39	116.52	108.20
1	N	656	G	O4'-C1'-N9	10.39	116.52	108.20
1	N	1347	G	P-O3'-C3'	10.39	132.17	119.70
1	N	83	C	C5-C6-N1	10.39	126.19	121.00
1	N	509	A	C5-C6-N1	-10.39	112.50	117.70
1	N	1189	U	C5-C6-N1	10.39	127.89	122.70
1	N	1069	C	C5-C6-N1	10.39	126.19	121.00
1	N	1443	C	C5-C6-N1	10.39	126.19	121.00
1	N	171	A	O4'-C1'-N9	10.39	116.51	108.20
1	N	528	C	O4'-C1'-N1	10.38	116.51	108.20
1	N	545	C	N3-C4-N4	10.38	125.27	118.00
1	N	1150	A	C5-C6-N1	-10.39	112.51	117.70
1	N	520	A	C4-C5-C6	10.38	122.19	117.00
1	N	1042	A	P-O5'-C5'	10.38	137.51	120.90
1	N	1530	G	N3-C2-N2	10.38	127.17	119.90
1	N	1246	A	N3-C4-N9	-10.38	119.10	127.40
1	N	1246	A	C2-N3-C4	-10.37	105.41	110.60
1	N	265	G	N1-C6-O6	10.37	126.12	119.90
1	N	766	A	C5-C6-N6	-10.37	115.40	123.70
1	N	305	G	N1-C6-O6	10.37	126.12	119.90
1	N	964	A	N9-C4-C5	10.37	109.95	105.80
1	N	234	C	O4'-C1'-N1	10.36	116.49	108.20
1	N	832	G	N1-C2-N3	-10.36	117.68	123.90
1	N	79	G	C5-C6-O6	-10.36	122.39	128.60
1	N	816	A	N1-C6-N6	10.36	124.81	118.60
1	N	1138	G	C5-C6-N1	-10.35	106.32	111.50
1	N	1191	A	O4'-C1'-N9	10.35	116.48	108.20
1	N	971	G	N1-C6-O6	10.35	126.11	119.90
1	N	347	G	N1-C6-O6	10.35	126.11	119.90
1	N	671	G	C5-C6-N1	-10.35	106.33	111.50
1	N	888	G	N1-C2-N3	-10.35	117.69	123.90
1	N	1100	C	O4'-C1'-N1	10.35	116.48	108.20
1	N	1201	A	C5-C6-N1	-10.35	112.53	117.70
1	N	823	C	O4'-C1'-N1	10.34	116.47	108.20
1	N	494	G	C6-C5-N7	-10.34	124.20	130.40
1	N	1454	G	O4'-C1'-N9	10.34	116.47	108.20
1	N	386	C	C4-C5-C6	10.34	122.57	117.40
1	N	55	A	C5-C6-N6	-10.33	115.44	123.70
1	N	134	G	C6-C5-N7	-10.33	124.20	130.40
1	N	72	A	C5-C6-N6	-10.32	115.44	123.70
1	N	455	G	N1-C6-O6	10.32	126.09	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1207	G	C5-C6-O6	-10.32	122.41	128.60
1	N	1500	A	C5-C6-N6	-10.32	115.44	123.70
1	N	332	G	C5-C6-O6	-10.32	122.41	128.60
1	N	1040	U	P-O5'-C5'	10.32	137.41	120.90
1	N	1532	U	O4'-C1'-N1	10.32	116.45	108.20
1	N	272	C	O4'-C1'-N1	10.32	116.45	108.20
1	N	625	U	N3-C4-C5	-10.32	108.41	114.60
1	N	1323	G	C4-C5-N7	-10.32	106.67	110.80
1	N	1129	C	O4'-C1'-N1	10.31	116.45	108.20
1	N	650	G	N3-C2-N2	10.31	127.12	119.90
1	N	1239	A	N1-C6-N6	10.31	124.79	118.60
1	N	793	U	O4'-C1'-N1	10.31	116.45	108.20
1	N	1261	A	O4'-C1'-N9	10.31	116.45	108.20
1	N	859	G	N3-C4-C5	10.31	133.75	128.60
1	N	1098	C	C2-N3-C4	10.30	125.05	119.90
1	N	1245	C	N3-C4-N4	10.30	125.21	118.00
1	N	220	G	N1-C6-O6	10.30	126.08	119.90
1	N	1503	A	C4-C5-C6	10.29	122.15	117.00
1	N	748	G	C5-C6-N1	-10.28	106.36	111.50
1	N	193	C	C6-N1-C2	-10.28	116.19	120.30
1	N	63	C	O4'-C1'-N1	10.28	116.42	108.20
1	N	165	G	C4-C5-C6	10.28	124.97	118.80
1	N	495	A	N1-C6-N6	10.28	124.77	118.60
1	N	1222	G	O4'-C1'-N9	10.28	116.42	108.20
1	N	270	A	N1-C2-N3	10.27	134.44	129.30
1	N	538	G	P-O5'-C5'	10.27	137.34	120.90
1	N	441	A	C6-N1-C2	10.27	124.76	118.60
1	N	1004	A	N9-C4-C5	10.27	109.91	105.80
1	N	109	A	O4'-C1'-N9	10.26	116.41	108.20
1	N	159	G	N9-C4-C5	-10.26	101.30	105.40
1	N	1003	G	C5-C6-O6	-10.26	122.44	128.60
1	N	689	C	O4'-C1'-N1	10.26	116.41	108.20
1	N	192	A	N1-C6-N6	10.26	124.75	118.60
1	N	946	A	N1-C6-N6	10.26	124.75	118.60
1	N	811	C	N3-C4-C5	-10.25	117.80	121.90
1	N	875	U	C5-C4-O4	-10.25	119.75	125.90
1	N	1167	A	C5-C6-N1	-10.24	112.58	117.70
1	N	166	U	O4'-C1'-N1	10.24	116.39	108.20
1	N	1531	A	O4'-C1'-N9	10.24	116.39	108.20
1	N	50	A	C4-C5-C6	10.24	122.12	117.00
1	N	366	A	P-O3'-C3'	10.24	131.98	119.70
1	N	428	G	N9-C4-C5	10.24	109.50	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1350	A	C5-N7-C8	10.24	109.02	103.90
1	N	110	C	N3-C4-C5	10.23	125.99	121.90
1	N	435	A	C8-N9-C4	-10.23	101.71	105.80
1	N	1315	U	O4'-C1'-N1	10.23	116.39	108.20
1	N	797	C	N3-C4-C5	-10.23	117.81	121.90
1	N	928	G	N1-C2-N3	-10.23	117.76	123.90
1	N	857	C	N3-C4-C5	-10.23	117.81	121.90
1	N	1223	C	P-O3'-C3'	10.23	131.98	119.70
1	N	608	A	C6-C5-N7	-10.23	125.14	132.30
1	N	16	A	N1-C6-N6	10.22	124.73	118.60
1	N	1360	A	C5-C6-N1	-10.22	112.59	117.70
1	N	65	A	C6-C5-N7	-10.22	125.14	132.30
1	N	900	A	C6-N1-C2	10.22	124.73	118.60
1	N	719	C	C2-N3-C4	10.22	125.01	119.90
1	N	651	C	C2-N3-C4	10.21	125.01	119.90
1	N	724	G	N3-C2-N2	10.21	127.05	119.90
1	N	763	G	P-O3'-C3'	10.22	131.96	119.70
1	N	1108	G	N1-C6-O6	10.22	126.03	119.90
1	N	668	G	O4'-C1'-N9	10.21	116.37	108.20
1	N	919	A	N1-C2-N3	10.21	134.41	129.30
1	N	416	G	P-O5'-C5'	10.21	137.24	120.90
1	N	655	A	N1-C2-N3	10.21	134.40	129.30
1	N	239	U	O4'-C1'-N1	10.21	116.36	108.20
1	N	103	U	N3-C4-O4	10.20	126.54	119.40
1	N	115	G	N1-C6-O6	10.20	126.02	119.90
1	N	1467	C	O4'-C1'-N1	10.20	116.36	108.20
1	N	288	A	N1-C6-N6	10.20	124.72	118.60
1	N	1021	A	C5-C6-N6	-10.20	115.54	123.70
1	N	274	A	N1-C2-N3	10.19	134.40	129.30
1	N	1170	A	C8-N9-C4	-10.19	101.72	105.80
1	N	253	A	N1-C6-N6	10.19	124.71	118.60
1	N	746	A	N1-C6-N6	10.19	124.71	118.60
1	N	1212	U	N3-C4-O4	10.19	126.53	119.40
1	N	1372	U	O4'-C1'-N1	10.19	116.35	108.20
1	N	81	A	N9-C1'-C2'	10.18	127.24	114.00
1	N	903	G	C8-N9-C4	-10.18	102.33	106.40
1	N	731	G	N1-C2-N3	-10.18	117.79	123.90
1	N	1518	A	N1-C6-N6	10.18	124.71	118.60
1	N	905	U	O4'-C1'-N1	10.17	116.34	108.20
1	N	629	A	C4-C5-C6	10.17	122.09	117.00
1	N	1359	C	C6-N1-C2	-10.17	116.23	120.30
1	N	604	G	N9-C4-C5	10.17	109.47	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	282	A	C8-N9-C4	-10.16	101.73	105.80
1	N	490	C	O4'-C1'-N1	10.16	116.33	108.20
1	N	544	G	C5-C6-N1	-10.16	106.42	111.50
1	N	653	U	C5-C6-N1	10.16	127.78	122.70
1	N	640	A	C6-C5-N7	-10.16	125.19	132.30
1	N	1491	G	C4-C5-N7	-10.16	106.74	110.80
1	N	251	G	C4'-C3'-C2'	-10.16	92.44	102.60
1	N	622	A	N9-C4-C5	10.16	109.86	105.80
1	N	1437	A	O4'-C1'-N9	10.16	116.33	108.20
1	N	814	A	C5-C6-N1	-10.15	112.62	117.70
1	N	552	U	C5-C6-N1	10.15	127.78	122.70
1	N	1129	C	C5-C6-N1	10.15	126.08	121.00
1	N	399	G	O4'-C1'-N9	10.15	116.32	108.20
1	N	375	U	C5-C6-N1	10.14	127.77	122.70
1	N	162	A	N1-C6-N6	10.14	124.69	118.60
1	N	184	G	N9-C4-C5	-10.14	101.34	105.40
1	N	690	G	C8-N9-C4	-10.14	102.34	106.40
1	N	878	A	O4'-C1'-N9	10.14	116.31	108.20
1	N	496	A	C5-C6-N6	-10.14	115.59	123.70
1	N	904	U	O4'-C1'-N1	10.14	116.31	108.20
1	N	83	C	N3-C4-C5	-10.14	117.84	121.90
1	N	1427	C	N3-C4-C5	-10.14	117.84	121.90
1	N	404	G	N3-C2-N2	10.13	126.99	119.90
1	N	60	A	N9-C4-C5	10.13	109.85	105.80
1	N	162	A	C5-C6-N1	-10.13	112.64	117.70
1	N	1068	G	C5-N7-C8	10.13	109.36	104.30
1	N	604	G	N1-C6-O6	10.12	125.97	119.90
1	N	913	A	N3-C4-C5	-10.12	119.71	126.80
1	N	16	A	C8-N9-C4	10.12	109.85	105.80
1	N	201	G	C8-N9-C4	10.12	110.45	106.40
1	N	925	G	N1-C6-O6	10.12	125.97	119.90
1	N	276	G	C5-C6-O6	-10.12	122.53	128.60
1	N	1520	C	N3-C4-N4	10.12	125.08	118.00
1	N	566	G	N7-C8-N9	10.12	118.16	113.10
1	N	35	G	N1-C6-O6	10.12	125.97	119.90
1	N	462	G	C2-N3-C4	10.11	116.95	111.90
1	N	494	G	O4'-C1'-N9	10.11	116.29	108.20
1	N	1521	C	O4'-C1'-N1	10.11	116.29	108.20
1	N	475	C	O4'-C1'-N1	10.11	116.29	108.20
1	N	233	C	N3-C4-C5	-10.10	117.86	121.90
1	N	552	U	O4'-C1'-N1	10.10	116.28	108.20
1	N	1202	U	O4'-C1'-N1	10.10	116.28	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1105	A	N1-C6-N6	10.10	124.66	118.60
1	N	304	U	O4'-C1'-N1	10.10	116.28	108.20
1	N	461	A	C4-C5-N7	-10.10	105.65	110.70
1	N	736	C	N3-C4-N4	10.10	125.07	118.00
1	N	1153	G	C4-C5-N7	10.10	114.84	110.80
1	N	153	C	C5-C4-N4	-10.09	113.14	120.20
1	N	833	G	C5-C6-O6	-10.09	122.55	128.60
1	N	1036	A	N1-C6-N6	10.09	124.66	118.60
1	N	23	C	O4'-C1'-N1	10.09	116.27	108.20
1	N	322	C	N3-C4-N4	10.08	125.06	118.00
1	N	576	C	P-O3'-C3'	10.08	131.79	119.70
1	N	737	C	N1-C2-O2	-10.08	112.85	118.90
1	N	1396	A	N9-C4-C5	10.07	109.83	105.80
1	N	115	G	O4'-C1'-N9	10.07	116.26	108.20
1	N	1156	G	C5-C6-O6	-10.07	122.56	128.60
1	N	1505	G	C5-C6-O6	-10.07	122.56	128.60
1	N	540	G	C5-C6-O6	-10.06	122.56	128.60
1	N	475	C	C5-C6-N1	10.06	126.03	121.00
1	N	775	G	P-O3'-C3'	-10.06	107.63	119.70
1	N	1139	G	N1-C6-O6	10.06	125.94	119.90
1	N	1258	G	N1-C6-O6	10.06	125.94	119.90
1	N	365	U	C5-C4-O4	-10.06	119.87	125.90
1	N	9	G	C5-C6-O6	-10.05	122.57	128.60
1	N	281	G	N1-C2-N3	-10.05	117.87	123.90
1	N	245	U	O4'-C1'-N1	10.05	116.24	108.20
1	N	787	A	C5-C6-N1	-10.05	112.67	117.70
1	N	959	A	C5-C6-N6	-10.05	115.66	123.70
1	N	1209	C	C2-N3-C4	10.05	124.92	119.90
1	N	22	G	C5-C6-O6	-10.04	122.57	128.60
1	N	233	C	N3-C4-N4	10.04	125.03	118.00
1	N	389	A	C5-C6-N6	-10.04	115.66	123.70
1	N	981	U	C6-N1-C2	-10.04	114.97	121.00
1	N	41	G	N1-C2-N3	-10.04	117.87	123.90
1	N	499	A	C5-N7-C8	10.04	108.92	103.90
1	N	800	G	N1-C6-O6	10.04	125.92	119.90
1	N	1198	G	N1-C6-O6	10.04	125.92	119.90
1	N	344	A	C5-C6-N6	-10.03	115.67	123.70
1	N	1021	A	C5-N7-C8	10.03	108.92	103.90
1	N	176	C	N3-C4-C5	-10.03	117.89	121.90
1	N	294	U	O4'-C1'-N1	10.03	116.22	108.20
1	N	562	U	N3-C4-C5	-10.03	108.58	114.60
1	N	60	A	C8-N9-C4	-10.03	101.79	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	938	A	C5-C6-N1	-10.03	112.69	117.70
1	N	1089	G	C4-C5-C6	10.03	124.81	118.80
1	N	53	A	P-O5'-C5'	10.02	136.94	120.90
1	N	799	G	C4'-C3'-C2'	-10.02	92.58	102.60
1	N	40	C	O4'-C1'-N1	10.02	116.21	108.20
1	N	401	C	C6-N1-C2	-10.02	116.29	120.30
1	N	792	A	C5-C6-N1	-10.02	112.69	117.70
1	N	964	A	C4-C5-C6	10.02	122.01	117.00
1	N	765	G	O4'-C1'-N9	10.01	116.21	108.20
1	N	18	C	O4'-C1'-N1	10.01	116.21	108.20
1	N	1193	G	N1-C6-O6	10.01	125.91	119.90
1	N	941	G	C5-N7-C8	-10.01	99.30	104.30
1	N	1374	A	O4'-C4'-C3'	-10.00	94.00	104.00
1	N	784	A	O4'-C1'-N9	10.00	116.20	108.20
1	N	930	C	O4'-C1'-N1	10.00	116.20	108.20
1	N	668	G	N1-C6-O6	9.99	125.90	119.90
1	N	1034	G	C8-N9-C4	-9.99	102.40	106.40
1	N	1087	G	N1-C6-O6	9.99	125.89	119.90
1	N	1265	C	O4'-C1'-N1	9.99	116.19	108.20
1	N	422	C	C6-N1-C2	-9.99	116.31	120.30
1	N	840	C	C5-C4-N4	-9.99	113.21	120.20
1	N	128	G	O4'-C1'-N9	9.98	116.19	108.20
1	N	524	G	C4-C5-N7	-9.98	106.81	110.80
1	N	979	C	O4'-C1'-N1	9.98	116.19	108.20
1	N	207	C	N3-C4-C5	-9.98	117.91	121.90
1	N	1082	A	C5-C6-N6	-9.98	115.71	123.70
1	N	1363	A	C5-N7-C8	9.98	108.89	103.90
1	N	1116	U	N3-C4-O4	9.98	126.38	119.40
1	N	503	C	N3-C4-N4	9.97	124.98	118.00
1	N	249	U	P-O3'-C3'	-9.97	107.74	119.70
1	N	163	C	O4'-C1'-N1	9.97	116.17	108.20
1	N	281	G	C2-N3-C4	9.96	116.88	111.90
1	N	1256	A	N9-C4-C5	-9.96	101.81	105.80
1	N	1187	G	C5-C6-O6	-9.96	122.62	128.60
1	N	393	A	C5-N7-C8	9.96	108.88	103.90
1	N	1181	G	N1-C2-N3	-9.96	117.92	123.90
1	N	109	A	C5-C6-N6	-9.96	115.73	123.70
1	N	173	U	P-O3'-C3'	9.96	131.65	119.70
1	N	1216	A	O4'-C1'-N9	9.96	116.17	108.20
1	N	1267	C	C5-C4-N4	-9.96	113.23	120.20
1	N	1399	C	N3-C4-N4	9.96	124.97	118.00
1	N	388	G	N1-C6-O6	9.95	125.87	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	995	C	N3-C4-C5	-9.95	117.92	121.90
1	N	1038	C	C6-N1-C2	-9.96	116.32	120.30
1	N	262	A	C6-C5-N7	-9.95	125.33	132.30
1	N	289	G	O4'-C1'-N9	9.95	116.16	108.20
1	N	311	C	N3-C4-N4	9.95	124.97	118.00
1	N	1271	A	C4-C5-C6	9.95	121.98	117.00
1	N	1306	A	C2-N3-C4	9.95	115.58	110.60
1	N	566	G	C8-N9-C4	-9.94	102.42	106.40
1	N	846	G	C2-N3-C4	9.94	116.87	111.90
1	N	566	G	N3-C4-C5	-9.94	123.63	128.60
1	N	68	G	N1-C6-O6	9.94	125.86	119.90
1	N	63	C	C5-C4-N4	-9.93	113.25	120.20
1	N	894	G	O4'-C1'-N9	9.93	116.14	108.20
1	N	922	G	C6-C5-N7	-9.93	124.44	130.40
1	N	1396	A	C5-N7-C8	9.93	108.86	103.90
1	N	483	C	N3-C4-N4	9.92	124.95	118.00
1	N	510	A	O4'-C1'-N9	9.92	116.14	108.20
1	N	1085	U	C5-C4-O4	9.92	131.85	125.90
1	N	1023	U	C5-C6-N1	9.92	127.66	122.70
1	N	761	G	C5-C6-N1	-9.92	106.54	111.50
1	N	859	G	N3-C2-N2	9.92	126.84	119.90
1	N	212	G	P-O5'-C5'	9.91	136.76	120.90
1	N	1025	U	C4-C5-C6	9.91	125.65	119.70
1	N	576	C	N3-C4-N4	9.91	124.94	118.00
1	N	1305	G	C5-C6-O6	-9.91	122.65	128.60
1	N	760	G	N1-C2-N3	-9.91	117.95	123.90
1	N	75	G	C5-C6-O6	-9.91	122.66	128.60
1	N	857	C	N3-C4-N4	9.91	124.94	118.00
1	N	1498	U	P-O3'-C3'	9.91	131.59	119.70
1	N	135	C	C2-N3-C4	9.91	124.85	119.90
1	N	89	U	N1-C2-N3	-9.90	108.96	114.90
1	N	327	A	C5-C6-N6	-9.90	115.78	123.70
1	N	1234	C	N3-C4-C5	-9.90	117.94	121.90
1	N	1246	A	C5-C6-N1	-9.90	112.75	117.70
1	N	749	A	N1-C6-N6	9.90	124.54	118.60
1	N	795	C	N3-C4-C5	-9.90	117.94	121.90
1	N	1477	U	N3-C4-O4	9.89	126.33	119.40
1	N	633	G	P-O5'-C5'	9.89	136.72	120.90
1	N	381	C	C6-N1-C2	-9.89	116.35	120.30
1	N	625	U	C2-N3-C4	9.88	132.93	127.00
1	N	1043	G	C4-C5-C6	9.88	124.73	118.80
1	N	1428	A	C5-C6-N6	-9.88	115.79	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	267	C	N3-C4-N4	9.88	124.92	118.00
1	N	1117	A	C4-C5-C6	9.88	121.94	117.00
1	N	1138	G	N3-C2-N2	9.88	126.81	119.90
1	N	1409	C	O4'-C1'-N1	9.88	116.10	108.20
1	N	174	A	N1-C6-N6	9.87	124.52	118.60
1	N	391	G	N3-C2-N2	9.87	126.81	119.90
1	N	470	C	O4'-C1'-N1	9.87	116.10	108.20
1	N	1279	G	N1-C6-O6	9.87	125.82	119.90
1	N	655	A	O4'-C1'-N9	9.87	116.09	108.20
1	N	1228	C	C5-C6-N1	9.87	125.93	121.00
1	N	72	A	C5-N7-C8	9.87	108.83	103.90
1	N	41	G	C8-N9-C4	-9.86	102.45	106.40
1	N	362	G	O4'-C1'-N9	9.86	116.09	108.20
1	N	614	C	O4'-C1'-N1	9.86	116.09	108.20
1	N	1475	G	C5-C6-O6	-9.86	122.68	128.60
1	N	840	C	N3-C4-C5	-9.86	117.96	121.90
1	N	226	G	N1-C2-N3	-9.86	117.99	123.90
1	N	950	U	O4'-C1'-N1	9.86	116.08	108.20
1	N	1044	A	N1-C2-N3	9.85	134.23	129.30
1	N	1488	G	C4-C5-N7	-9.85	106.86	110.80
1	N	2	A	C5-N7-C8	9.84	108.82	103.90
1	N	341	C	C5-C6-N1	9.84	125.92	121.00
1	N	852	G	C8-N9-C4	-9.84	102.46	106.40
1	N	789	U	O4'-C1'-N1	9.84	116.07	108.20
1	N	160	A	C5-C6-N6	-9.84	115.83	123.70
1	N	635	A	C4-C5-N7	-9.84	105.78	110.70
1	N	1033	G	N7-C8-N9	-9.84	108.18	113.10
1	N	122	G	N1-C6-O6	9.84	125.80	119.90
1	N	1071	C	C5-C6-N1	9.84	125.92	121.00
1	N	1371	G	C6-N1-C2	9.83	131.00	125.10
1	N	1221	G	C5-C6-N1	-9.83	106.59	111.50
1	N	601	G	C4-C5-N7	-9.83	106.87	110.80
1	N	325	A	O4'-C1'-N9	9.83	116.06	108.20
1	N	374	A	C5-C6-N6	-9.82	115.84	123.70
1	N	1438	G	C5-C6-O6	-9.82	122.70	128.60
1	N	1470	U	C2-N3-C4	9.82	132.90	127.00
1	N	365	U	O4'-C1'-N1	9.82	116.06	108.20
1	N	429	U	O4'-C1'-N1	9.82	116.06	108.20
1	N	1408	A	N1-C6-N6	9.82	124.49	118.60
1	N	1254	A	C4-C5-C6	9.82	121.91	117.00
1	N	62	U	O4'-C1'-N1	9.82	116.05	108.20
1	N	384	G	N7-C8-N9	9.81	118.01	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	781	A	C4-C5-N7	-9.81	105.80	110.70
1	N	1043	G	C4-C5-N7	-9.81	106.88	110.80
1	N	1508	A	C6-C5-N7	-9.81	125.44	132.30
1	N	304	U	N3-C4-O4	9.81	126.26	119.40
1	N	1461	G	N3-C2-N2	9.81	126.76	119.90
1	N	535	A	C2-N3-C4	9.80	115.50	110.60
1	N	555	U	C5-C4-O4	-9.80	120.02	125.90
1	N	382	A	N1-C6-N6	9.80	124.48	118.60
1	N	570	G	C8-N9-C4	-9.80	102.48	106.40
1	N	788	U	P-O5'-C5'	9.80	136.58	120.90
1	N	490	C	N3-C4-N4	9.80	124.86	118.00
1	N	428	G	P-O3'-C3'	9.79	131.45	119.70
1	N	76	G	N1-C6-O6	9.79	125.78	119.90
1	N	903	G	C5-C6-O6	-9.79	122.72	128.60
1	N	953	G	N3-C2-N2	9.79	126.75	119.90
1	N	666	G	C5-C6-O6	-9.79	122.73	128.60
1	N	914	A	C5-C6-N6	-9.79	115.87	123.70
1	N	1020	G	N7-C8-N9	-9.79	108.21	113.10
1	N	1158	C	P-O3'-C3'	9.78	131.44	119.70
1	N	1233	G	N3-C4-C5	-9.78	123.71	128.60
1	N	388	G	C4-C5-N7	9.78	114.71	110.80
1	N	558	G	N1-C2-N3	-9.78	118.03	123.90
1	N	1138	G	P-O3'-C3'	9.78	131.43	119.70
1	N	184	G	P-O5'-C5'	9.78	136.54	120.90
1	N	514	C	C5-C4-N4	-9.78	113.36	120.20
1	N	767	A	N1-C6-N6	9.78	124.47	118.60
1	N	792	A	N1-C6-N6	9.78	124.47	118.60
1	N	129	A	N1-C2-N3	9.77	134.19	129.30
1	N	364	A	C5-C6-N6	-9.77	115.88	123.70
1	N	1250	A	O4'-C1'-N9	9.77	116.02	108.20
1	N	703	G	C5-C6-O6	-9.77	122.74	128.60
1	N	776	G	O4'-C1'-N9	9.77	116.01	108.20
1	N	424	G	N1-C6-O6	9.77	125.76	119.90
1	N	840	C	C6-N1-C2	-9.77	116.39	120.30
1	N	728	A	C4-C5-C6	9.77	121.88	117.00
1	N	770	C	N3-C4-C5	-9.76	117.99	121.90
1	N	605	U	O4'-C1'-N1	9.76	116.01	108.20
1	N	801	U	C2-N3-C4	-9.76	121.14	127.00
1	N	689	C	N3-C4-N4	9.76	124.83	118.00
1	N	566	G	O4'-C1'-N9	9.75	116.00	108.20
1	N	416	G	N7-C8-N9	-9.75	108.22	113.10
1	N	1222	G	C5-C6-O6	-9.75	122.75	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1386	G	C4-C5-N7	9.75	114.70	110.80
1	N	637	C	N3-C4-C5	-9.75	118.00	121.90
1	N	616	G	C5-N7-C8	-9.74	99.43	104.30
1	N	517	G	O4'-C1'-N9	9.74	115.99	108.20
1	N	576	C	C5-C4-N4	-9.74	113.38	120.20
1	N	942	G	N1-C2-N3	-9.74	118.06	123.90
1	N	1190	G	O4'-C1'-N9	9.74	115.99	108.20
1	N	1478	U	C5-C6-N1	9.74	127.57	122.70
1	N	353	A	C4-C5-C6	9.74	121.87	117.00
1	N	996	A	O4'-C1'-N9	9.74	115.99	108.20
1	N	1005	A	C4-C5-C6	9.74	121.87	117.00
1	N	145	G	C5-C6-O6	-9.73	122.76	128.60
1	N	447	G	O4'-C1'-N9	9.73	115.99	108.20
1	N	1192	C	O4'-C1'-N1	9.73	115.99	108.20
1	N	575	G	N1-C6-O6	9.73	125.74	119.90
1	N	1258	G	O4'-C1'-N9	9.73	115.98	108.20
1	N	532	A	C5-C6-N1	-9.73	112.84	117.70
1	N	286	C	N3-C4-N4	9.72	124.81	118.00
1	N	432	A	C6-C5-N7	-9.72	125.49	132.30
1	N	553	A	N1-C6-N6	9.72	124.43	118.60
1	N	1220	G	N9-C4-C5	-9.72	101.51	105.40
1	N	242	G	N1-C2-N3	-9.72	118.07	123.90
1	N	528	C	N3-C4-N4	9.72	124.80	118.00
1	N	739	C	N3-C2-O2	9.72	128.70	121.90
1	N	515	G	C5-C6-O6	-9.71	122.77	128.60
1	N	1179	A	O4'-C1'-N9	9.71	115.97	108.20
1	N	1465	A	C2-N3-C4	-9.71	105.74	110.60
1	N	68	G	C5-C6-O6	-9.71	122.77	128.60
1	N	655	A	N9-C4-C5	-9.71	101.92	105.80
1	N	604	G	C6-C5-N7	-9.71	124.58	130.40
1	N	772	U	O4'-C1'-N1	9.71	115.96	108.20
1	N	101	A	C8-N9-C4	-9.70	101.92	105.80
1	N	349	A	O4'-C1'-N9	9.70	115.96	108.20
1	N	658	C	N3-C4-N4	9.70	124.79	118.00
1	N	951	G	C6-C5-N7	-9.69	124.58	130.40
1	N	1147	C	C5-C6-N1	9.69	125.85	121.00
1	N	377	G	C5-C6-N1	-9.69	106.65	111.50
1	N	737	C	O4'-C1'-N1	9.69	115.95	108.20
1	N	1186	G	C5-C6-O6	-9.69	122.79	128.60
1	N	1193	G	N7-C8-N9	-9.69	108.26	113.10
1	N	522	C	O4'-C1'-N1	9.69	115.95	108.20
1	N	749	A	O4'-C1'-N9	9.69	115.95	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1396	A	N1-C6-N6	9.69	124.41	118.60
1	N	1274	A	N1-C2-N3	9.68	134.14	129.30
1	N	35	G	O4'-C1'-N9	9.68	115.94	108.20
1	N	1398	A	C5-N7-C8	9.68	108.74	103.90
1	N	725	G	C5-C6-O6	-9.68	122.79	128.60
1	N	895	G	C5-C6-O6	-9.68	122.79	128.60
1	N	846	G	N3-C2-N2	9.68	126.67	119.90
1	N	501	C	N3-C4-N4	9.67	124.77	118.00
1	N	580	C	N3-C4-C5	-9.67	118.03	121.90
1	N	99	C	P-O3'-C3'	9.67	131.30	119.70
1	N	171	A	N1-C2-N3	9.67	134.13	129.30
1	N	203	G	C5-C6-O6	-9.67	122.80	128.60
1	N	608	A	N1-C6-N6	9.66	124.40	118.60
1	N	531	U	O4'-C1'-N1	9.66	115.93	108.20
1	N	1053	G	P-O3'-C3'	9.66	131.29	119.70
1	N	283	U	C5-C6-N1	9.66	127.53	122.70
1	N	334	C	O4'-C1'-N1	9.66	115.93	108.20
1	N	650	G	C8-N9-C4	-9.66	102.54	106.40
1	N	350	G	C5-C6-O6	-9.66	122.81	128.60
1	N	542	G	O4'-C1'-N9	9.65	115.92	108.20
1	N	716	A	O4'-C1'-N9	9.65	115.92	108.20
1	N	1014	A	C5-C6-N6	-9.65	115.98	123.70
1	N	1111	A	C5-C6-N1	-9.65	112.87	117.70
1	N	1481	U	C5-C4-O4	-9.65	120.11	125.90
1	N	430	A	C5-C6-N6	-9.65	115.98	123.70
1	N	837	U	C4-C5-C6	9.65	125.49	119.70
1	N	1040	U	N3-C2-O2	9.65	128.96	122.20
1	N	544	G	N3-C2-N2	9.65	126.65	119.90
1	N	1269	A	C5-C6-N1	-9.64	112.88	117.70
1	N	1273	C	N3-C4-C5	-9.64	118.04	121.90
1	N	1287	A	C2-N3-C4	9.64	115.42	110.60
1	N	413	G	C5-C6-O6	-9.63	122.82	128.60
1	N	578	C	N3-C4-C5	-9.63	118.05	121.90
1	N	1010	U	N3-C4-C5	-9.63	108.82	114.60
1	N	169	C	C6-N1-C2	-9.63	116.45	120.30
1	N	179	A	P-O5'-C5'	9.63	136.31	120.90
1	N	433	G	N1-C6-O6	9.63	125.68	119.90
1	N	617	G	N1-C6-O6	9.63	125.68	119.90
1	N	727	G	C5-C6-O6	-9.63	122.82	128.60
1	N	418	C	O4'-C1'-N1	9.63	115.90	108.20
1	N	713	G	C5-C6-O6	-9.63	122.83	128.60
1	N	1373	G	N1-C6-O6	9.62	125.67	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	755	G	O4'-C1'-N9	9.62	115.90	108.20
1	N	284	C	N3-C4-C5	-9.62	118.05	121.90
1	N	1030	U	N3-C4-C5	-9.61	108.83	114.60
1	N	990	C	O4'-C1'-N1	9.61	115.89	108.20
1	N	1379	G	C4-C5-N7	-9.61	106.96	110.80
1	N	1191	A	C5-N7-C8	9.60	108.70	103.90
1	N	1204	A	N1-C6-N6	9.60	124.36	118.60
1	N	1522	U	O4'-C1'-N1	9.60	115.88	108.20
1	N	117	G	C5-C6-O6	-9.60	122.84	128.60
1	N	723	U	C2-N1-C1'	9.60	129.22	117.70
1	N	345	C	N3-C4-C5	-9.60	118.06	121.90
1	N	750	C	N3-C4-N4	9.60	124.72	118.00
1	N	964	A	C4-C5-N7	-9.60	105.90	110.70
1	N	805	C	N3-C4-C5	-9.60	118.06	121.90
1	N	1237	C	O4'-C1'-N1	9.60	115.88	108.20
1	N	19	A	C5-C6-N1	-9.59	112.90	117.70
1	N	717	U	O4'-C1'-N1	9.59	115.87	108.20
1	N	1410	A	C5-C6-N6	-9.59	116.03	123.70
1	N	430	A	N9-C4-C5	-9.59	101.97	105.80
1	N	825	A	C5-N7-C8	9.59	108.69	103.90
1	N	1281	C	N3-C4-C5	-9.59	118.06	121.90
1	N	520	A	N1-C6-N6	9.58	124.35	118.60
1	N	858	G	N1-C2-N3	-9.58	118.15	123.90
1	N	1304	G	C5-C6-O6	-9.58	122.85	128.60
1	N	202	G	N1-C2-N3	-9.58	118.15	123.90
1	N	1164	G	C5-C6-O6	-9.58	122.85	128.60
1	N	1297	G	C8-N9-C4	-9.57	102.57	106.40
1	N	1533	C	N3-C4-N4	9.57	124.70	118.00
1	N	205	A	O4'-C1'-N9	9.57	115.86	108.20
1	N	726	C	C5-C6-N1	9.57	125.78	121.00
1	N	143	A	N1-C6-N6	9.57	124.34	118.60
1	N	724	G	C4-C5-N7	9.57	114.63	110.80
1	N	511	C	O4'-C1'-N1	9.56	115.85	108.20
1	N	1313	U	P-O5'-C5'	9.56	136.20	120.90
1	N	69	G	N1-C2-N3	-9.56	118.16	123.90
1	N	109	A	C4-C5-C6	9.56	121.78	117.00
1	N	734	G	C8-N9-C4	-9.56	102.58	106.40
1	N	1379	G	C5-C6-O6	-9.56	122.86	128.60
1	N	1196	A	C5-C6-N6	-9.56	116.06	123.70
1	N	1379	G	C5-C6-N1	-9.56	106.72	111.50
1	N	976	G	N1-C6-O6	9.55	125.63	119.90
1	N	864	A	C8-N9-C4	-9.55	101.98	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	263	A	C5-C6-N6	-9.54	116.06	123.70
1	N	312	C	C2-N3-C4	9.54	124.67	119.90
1	N	622	A	C5-C6-N1	-9.54	112.93	117.70
1	N	977	A	C4-C5-C6	9.54	121.77	117.00
1	N	1072	G	C5-C6-N1	-9.54	106.73	111.50
1	N	1499	A	N1-C6-N6	9.54	124.33	118.60
1	N	203	G	N3-C2-N2	9.54	126.58	119.90
1	N	1042	A	N9-C4-C5	-9.54	101.98	105.80
1	N	1332	A	C6-N1-C2	-9.54	112.88	118.60
1	N	436	C	N3-C4-N4	9.54	124.68	118.00
1	N	1248	A	C4-C5-C6	9.54	121.77	117.00
1	N	1409	C	C2-N3-C4	9.54	124.67	119.90
1	N	563	A	C3'-C2'-C1'	9.54	109.13	101.50
1	N	833	G	N1-C6-O6	9.53	125.62	119.90
1	N	497	G	C4-C5-N7	9.53	114.61	110.80
1	N	372	C	P-O3'-C3'	9.53	131.13	119.70
1	N	505	G	P-O3'-C3'	9.53	131.13	119.70
1	N	728	A	C2-N3-C4	-9.53	105.84	110.60
1	N	1496	C	C4-C5-C6	-9.53	112.64	117.40
1	N	407	U	P-O5'-C5'	9.52	136.14	120.90
1	N	810	C	O4'-C1'-N1	9.52	115.82	108.20
1	N	871	U	O4'-C1'-N1	9.52	115.82	108.20
1	N	936	C	C5-C6-N1	9.52	125.76	121.00
1	N	515	G	O4'-C1'-N9	9.52	115.81	108.20
1	N	817	C	N3-C4-C5	-9.52	118.09	121.90
1	N	763	G	O4'-C1'-N9	9.52	115.81	108.20
1	N	1234	C	N3-C4-N4	9.52	124.66	118.00
1	N	1108	G	P-O3'-C3'	9.51	131.12	119.70
1	N	703	G	N3-C2-N2	9.51	126.56	119.90
1	N	925	G	C6-C5-N7	-9.51	124.69	130.40
1	N	999	C	C6-N1-C2	-9.51	116.50	120.30
1	N	959	A	C5-C6-N1	-9.51	112.94	117.70
1	N	729	A	N7-C8-N9	-9.51	109.05	113.80
1	N	1297	G	C5'-C4'-O4'	9.51	120.51	109.10
1	N	11	G	N7-C8-N9	9.50	117.85	113.10
1	N	148	G	N1-C6-O6	9.50	125.60	119.90
1	N	1047	G	C6-C5-N7	-9.50	124.70	130.40
1	N	1391	U	O4'-C1'-N1	9.50	115.80	108.20
1	N	1437	A	C5-N7-C8	9.50	108.65	103.90
1	N	704	A	N9-C4-C5	-9.50	102.00	105.80
1	N	775	G	C2-N3-C4	-9.50	107.15	111.90
1	N	903	G	C5-C6-N1	-9.50	106.75	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	993	G	N1-C6-O6	9.50	125.60	119.90
1	N	1024	G	N1-C6-O6	9.50	125.60	119.90
1	N	1492	A	C5-C6-N6	-9.50	116.10	123.70
1	N	1130	A	C6-N1-C2	9.49	124.30	118.60
1	N	270	A	P-O5'-C5'	9.49	136.09	120.90
1	N	296	U	O4'-C1'-N1	9.49	115.79	108.20
1	N	935	A	C5-C6-N1	-9.49	112.95	117.70
1	N	974	A	P-O3'-C3'	9.49	131.09	119.70
1	N	198	G	N3-C2-N2	9.48	126.54	119.90
1	N	369	G	C4-C5-N7	9.48	114.59	110.80
1	N	1124	G	C8-N9-C4	-9.48	102.61	106.40
1	N	970	C	N3-C4-N4	9.48	124.64	118.00
1	N	123	U	N1-C2-N3	-9.48	109.21	114.90
1	N	1260	G	C4-C5-C6	9.48	124.49	118.80
1	N	184	G	C4-C5-N7	9.48	114.59	110.80
1	N	25	C	N3-C4-N4	9.47	124.63	118.00
1	N	1190	G	C6-C5-N7	-9.47	124.72	130.40
1	N	557	G	C5-C6-O6	-9.47	122.92	128.60
1	N	598	U	P-O5'-C5'	9.46	136.04	120.90
1	N	877	G	C2-N3-C4	-9.46	107.17	111.90
1	N	1352	C	O4'-C1'-N1	9.46	115.77	108.20
1	N	1433	A	N1-C6-N6	9.46	124.28	118.60
1	N	319	G	C4-C5-N7	9.46	114.58	110.80
1	N	886	G	N3-C2-N2	9.46	126.52	119.90
1	N	1006	G	C6-C5-N7	-9.46	124.72	130.40
1	N	1447	A	O4'-C1'-N9	9.46	115.77	108.20
1	N	734	G	C5-C6-O6	-9.46	122.92	128.60
1	N	303	A	C5-N7-C8	9.46	108.63	103.90
1	N	925	G	C8-N9-C4	9.46	110.18	106.40
1	N	1258	G	C5-C6-O6	-9.45	122.93	128.60
1	N	201	G	C6-N1-C2	9.45	130.77	125.10
1	N	148	G	N1-C2-N3	-9.45	118.23	123.90
1	N	310	G	C5-C6-N1	-9.45	106.77	111.50
1	N	922	G	C6-N1-C2	9.45	130.77	125.10
1	N	383	A	C8-N9-C4	-9.45	102.02	105.80
1	N	1399	C	C5-C4-N4	-9.45	113.58	120.20
1	N	380	G	O4'-C1'-N9	9.45	115.76	108.20
1	N	816	A	N3-C4-C5	-9.45	120.19	126.80
1	N	36	C	O4'-C1'-N1	9.45	115.76	108.20
1	N	1081	A	C5-C6-N6	-9.45	116.14	123.70
1	N	115	G	C8-N9-C4	9.45	110.18	106.40
1	N	274	A	C4-C5-C6	9.44	121.72	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	890	G	N1-C2-N3	-9.44	118.23	123.90
1	N	1214	C	N1-C2-O2	-9.44	113.23	118.90
1	N	1262	C	N3-C4-N4	9.44	124.61	118.00
1	N	1423	G	N1-C2-N3	-9.44	118.23	123.90
1	N	38	G	N3-C4-C5	-9.44	123.88	128.60
1	N	723	U	C4'-C3'-C2'	-9.44	93.16	102.60
1	N	825	A	C4-C5-C6	9.44	121.72	117.00
1	N	154	U	O4'-C1'-N1	9.44	115.75	108.20
1	N	794	A	N7-C8-N9	-9.44	109.08	113.80
1	N	223	A	C5-C6-N1	-9.44	112.98	117.70
1	N	820	U	C2-N3-C4	9.44	132.66	127.00
1	N	726	C	N3-C4-N4	9.43	124.60	118.00
1	N	738	C	N1-C2-O2	-9.43	113.24	118.90
1	N	739	C	C4-C5-C6	-9.43	112.68	117.40
1	N	1120	C	O4'-C1'-N1	9.43	115.75	108.20
1	N	656	G	N1-C6-O6	9.43	125.56	119.90
1	N	1000	A	C5-N7-C8	9.43	108.61	103.90
1	N	326	G	N3-C2-N2	9.43	126.50	119.90
1	N	217	C	O4'-C1'-N1	9.42	115.74	108.20
1	N	1465	A	O4'-C1'-N9	9.42	115.74	108.20
1	N	282	A	C5-C6-N1	-9.42	112.99	117.70
1	N	588	G	C6-N1-C2	-9.42	119.45	125.10
1	N	1018	G	N9-C4-C5	-9.42	101.63	105.40
1	N	844	G	C5-C6-N1	9.41	116.21	111.50
1	N	372	C	N3-C4-N4	9.41	124.59	118.00
1	N	1056	U	N3-C2-O2	9.40	128.78	122.20
1	N	139	A	O4'-C1'-N9	9.40	115.72	108.20
1	N	1332	A	N3-C4-C5	-9.40	120.22	126.80
1	N	1431	A	C4-C5-C6	9.40	121.70	117.00
1	N	443	C	O4'-C1'-N1	9.40	115.72	108.20
1	N	1093	A	P-O5'-C5'	9.40	135.94	120.90
1	N	1461	G	N1-C2-N3	-9.40	118.26	123.90
1	N	876	C	C6-N1-C2	-9.39	116.54	120.30
1	N	1483	A	C5-C6-N1	-9.39	113.00	117.70
1	N	728	A	C5-C6-N1	-9.39	113.01	117.70
1	N	1311	A	C4-C5-C6	9.39	121.69	117.00
1	N	1411	C	N3-C4-N4	9.39	124.57	118.00
1	N	345	C	O4'-C1'-N1	9.38	115.71	108.20
1	N	1031	C	C5-C6-N1	9.38	125.69	121.00
1	N	809	G	N1-C6-O6	9.38	125.53	119.90
1	N	16	A	O4'-C1'-N9	9.38	115.70	108.20
1	N	346	G	N1-C2-N3	-9.38	118.27	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	455	G	C5-C6-O6	-9.38	122.97	128.60
1	N	622	A	C4-C5-C6	9.38	121.69	117.00
1	N	447	G	N9-C4-C5	-9.37	101.65	105.40
1	N	552	U	C4-C5-C6	-9.37	114.08	119.70
1	N	1262	C	O4'-C1'-N1	9.37	115.70	108.20
1	N	125	U	O4'-C1'-N1	9.37	115.70	108.20
1	N	292	G	C5-C6-N1	-9.37	106.81	111.50
1	N	761	G	O4'-C1'-N9	9.37	115.69	108.20
1	N	1004	A	C5-C6-N1	-9.36	113.02	117.70
1	N	1038	C	P-O3'-C3'	9.37	130.94	119.70
1	N	1141	C	N3-C4-N4	9.37	124.56	118.00
1	N	382	A	C8-N9-C4	-9.36	102.06	105.80
1	N	186	C	N3-C4-C5	-9.36	118.16	121.90
1	N	679	C	N3-C4-N4	9.36	124.55	118.00
1	N	866	C	P-O5'-C5'	9.36	135.88	120.90
1	N	43	C	N3-C4-N4	9.36	124.55	118.00
1	N	110	C	C5-C4-N4	-9.36	113.65	120.20
1	N	188	C	N3-C4-C5	-9.35	118.16	121.90
1	N	685	G	N3-C2-N2	9.35	126.44	119.90
1	N	739	C	C6-N1-C1'	-9.35	109.58	120.80
1	N	1341	U	N3-C4-C5	-9.35	108.99	114.60
1	N	611	C	O4'-C1'-N1	9.35	115.68	108.20
1	N	658	C	C3'-C2'-C1'	-9.35	94.02	101.50
1	N	190	A	C5-C6-N6	-9.35	116.22	123.70
1	N	384	G	O4'-C1'-N9	9.35	115.68	108.20
1	N	1193	G	O4'-C1'-N9	9.35	115.68	108.20
1	N	1473	G	C6-N1-C2	9.34	130.70	125.10
1	N	755	G	N1-C6-O6	9.33	125.50	119.90
1	N	839	C	C5-C4-N4	-9.33	113.67	120.20
1	N	1274	A	C2-N3-C4	-9.33	105.94	110.60
1	N	1368	A	O4'-C1'-N9	9.33	115.66	108.20
1	N	143	A	N1-C2-N3	9.32	133.96	129.30
1	N	796	C	O4'-C1'-N1	9.32	115.66	108.20
1	N	886	G	C5-C6-O6	-9.32	123.01	128.60
1	N	164	G	C8-N9-C4	-9.32	102.67	106.40
1	N	267	C	C5-C4-N4	-9.32	113.68	120.20
1	N	595	A	C5-C6-N1	-9.32	113.04	117.70
1	N	814	A	C4-C5-C6	9.32	121.66	117.00
1	N	832	G	N1-C2-N2	9.32	124.58	116.20
1	N	1021	A	P-O5'-C5'	9.32	135.81	120.90
1	N	923	A	C5-C6-N6	-9.31	116.25	123.70
1	N	862	C	N3-C4-N4	9.31	124.52	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	912	C	C4-C5-C6	9.31	122.06	117.40
1	N	1021	A	C4-C5-N7	-9.31	106.05	110.70
1	N	171	A	C5-C6-N1	-9.31	113.05	117.70
1	N	422	C	N3-C4-N4	9.31	124.51	118.00
1	N	990	C	N3-C4-C5	-9.30	118.18	121.90
1	N	1362	A	C5-C6-N6	-9.30	116.26	123.70
1	N	1496	C	C5-C4-N4	-9.30	113.69	120.20
1	N	809	G	C5-C6-O6	-9.29	123.02	128.60
1	N	93	U	C2-N3-C4	-9.29	121.42	127.00
1	N	450	G	N3-C4-C5	9.29	133.25	128.60
1	N	1263	C	C5-C4-N4	-9.29	113.69	120.20
1	N	332	G	O4'-C1'-N9	9.29	115.63	108.20
1	N	1454	G	N3-C2-N2	9.29	126.40	119.90
1	N	1493	A	C5-C6-N6	-9.29	116.27	123.70
1	N	366	A	N9-C4-C5	9.29	109.52	105.80
1	N	864	A	P-O3'-C3'	9.29	130.84	119.70
1	N	457	G	N3-C4-C5	9.29	133.24	128.60
1	N	762	U	C2-N3-C4	-9.28	121.43	127.00
1	N	878	A	C5-C6-N6	-9.29	116.27	123.70
1	N	1039	G	C6-C5-N7	-9.29	124.83	130.40
1	N	973	G	N9-C4-C5	-9.28	101.69	105.40
1	N	176	C	C5-C6-N1	9.28	125.64	121.00
1	N	60	A	P-O3'-C3'	9.28	130.84	119.70
1	N	1131	G	C5-C6-O6	-9.28	123.03	128.60
1	N	486	U	N3-C4-C5	-9.28	109.03	114.60
1	N	945	G	C5-N7-C8	-9.28	99.66	104.30
1	N	665	A	N1-C6-N6	9.28	124.17	118.60
1	N	873	A	C4-C5-C6	9.28	121.64	117.00
1	N	1458	G	C5-N7-C8	9.27	108.94	104.30
1	N	1389	C	P-O5'-C5'	-9.27	106.06	120.90
1	N	1156	G	O4'-C1'-N9	9.27	115.62	108.20
1	N	1218	C	C4'-C3'-C2'	-9.27	93.33	102.60
1	N	202	G	C5-C6-N1	-9.27	106.87	111.50
1	N	973	G	N1-C2-N3	-9.27	118.34	123.90
1	N	79	G	N1-C6-O6	9.26	125.46	119.90
1	N	211	G	P-O3'-C3'	9.26	130.82	119.70
1	N	623	C	N3-C4-C5	-9.26	118.19	121.90
1	N	980	C	O4'-C1'-N1	9.26	115.61	108.20
1	N	1155	A	C5-N7-C8	9.26	108.53	103.90
1	N	1386	G	O4'-C1'-N9	9.26	115.61	108.20
1	N	435	A	N1-C6-N6	9.26	124.16	118.60
1	N	448	A	N1-C2-N3	9.26	133.93	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	553	A	C6-N1-C2	-9.26	113.05	118.60
1	N	964	A	C5-C6-N1	-9.26	113.07	117.70
1	N	510	A	C8-N9-C4	-9.26	102.10	105.80
1	N	865	A	O4'-C1'-N9	9.26	115.61	108.20
1	N	1124	G	N3-C2-N2	9.25	126.37	119.90
1	N	903	G	N9-C4-C5	9.24	109.10	105.40
1	N	1317	C	N3-C4-C5	-9.24	118.20	121.90
1	N	1436	U	O4'-C1'-N1	9.24	115.59	108.20
1	N	258	G	C6-N1-C2	9.24	130.64	125.10
1	N	14	U	C5-C6-N1	9.23	127.32	122.70
1	N	532	A	C5-C6-N6	-9.23	116.31	123.70
1	N	739	C	C5-C4-N4	-9.23	113.74	120.20
1	N	1534	A	O4'-C1'-N9	9.23	115.59	108.20
1	N	146	G	N1-C6-O6	9.23	125.44	119.90
1	N	295	C	N1-C2-O2	-9.22	113.36	118.90
1	N	568	G	N1-C2-N2	-9.22	107.90	116.20
1	N	512	U	O4'-C1'-N1	9.22	115.58	108.20
1	N	227	G	N1-C6-O6	9.21	125.43	119.90
1	N	587	G	N1-C2-N3	-9.22	118.37	123.90
1	N	773	G	C8-N9-C4	9.21	110.09	106.40
1	N	1128	C	O4'-C1'-N1	9.22	115.57	108.20
1	N	831	A	O4'-C1'-N9	9.21	115.57	108.20
1	N	331	G	C5-C6-O6	-9.21	123.08	128.60
1	N	551	U	N3-C4-C5	-9.21	109.08	114.60
1	N	2	A	N1-C6-N6	9.20	124.12	118.60
1	N	1529	G	C5-C6-N1	-9.20	106.90	111.50
1	N	521	G	C5-C6-O6	-9.20	123.08	128.60
1	N	757	U	O4'-C1'-N1	9.20	115.56	108.20
1	N	166	U	C5-C6-N1	9.20	127.30	122.70
1	N	1519	A	C4-C5-C6	9.20	121.60	117.00
1	N	559	A	C4'-C3'-C2'	9.19	111.79	102.60
1	N	1084	G	C2-N3-C4	9.19	116.50	111.90
1	N	766	A	P-O3'-C3'	-9.19	108.67	119.70
1	N	1324	A	C8-N9-C4	9.19	109.48	105.80
1	N	1371	G	C4-C5-N7	9.19	114.48	110.80
1	N	365	U	N1-C2-O2	-9.19	116.37	122.80
1	N	1480	A	C5-C6-N6	-9.18	116.35	123.70
1	N	396	C	N3-C4-N4	9.18	124.43	118.00
1	N	747	A	O4'-C1'-N9	9.18	115.55	108.20
1	N	1412	C	C5-C4-N4	-9.18	113.77	120.20
1	N	737	C	C6-N1-C2	-9.18	116.63	120.30
1	N	963	G	C5-C6-O6	-9.18	123.09	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	251	G	C5-C6-O6	-9.18	123.09	128.60
1	N	269	C	N3-C4-N4	9.18	124.42	118.00
1	N	1388	C	C4-C5-C6	9.18	121.99	117.40
1	N	11	G	C5-C6-N1	-9.18	106.91	111.50
1	N	56	U	C5-C6-N1	-9.17	118.11	122.70
1	N	782	A	O4'-C1'-N9	9.17	115.53	108.20
1	N	1418	A	C4-C5-C6	9.17	121.58	117.00
1	N	1389	C	C5-C6-N1	9.17	125.58	121.00
1	N	1495	U	C6-N1-C2	-9.17	115.50	121.00
1	N	1208	C	P-O5'-C5'	9.16	135.56	120.90
1	N	302	G	C4-N9-C1'	-9.16	114.59	126.50
1	N	361	G	C6-N1-C2	9.16	130.60	125.10
1	N	615	G	C8-N9-C4	-9.16	102.73	106.40
1	N	1413	A	N1-C2-N3	9.16	133.88	129.30
1	N	1118	U	O4'-C1'-N1	9.16	115.53	108.20
1	N	1125	U	O4'-C1'-N1	9.16	115.53	108.20
1	N	207	C	P-O3'-C3'	9.15	130.68	119.70
1	N	716	A	C5-C6-N6	-9.15	116.38	123.70
1	N	104	G	N3-C4-N9	9.15	131.49	126.00
1	N	867	G	C5-C6-O6	-9.15	123.11	128.60
1	N	19	A	C4-C5-C6	9.15	121.58	117.00
1	N	81	A	C5-C6-N1	-9.14	113.13	117.70
1	N	942	G	C8-N9-C4	-9.14	102.75	106.40
1	N	1066	C	N3-C4-N4	9.14	124.40	118.00
1	N	1071	C	C4-C5-C6	-9.14	112.83	117.40
1	N	208	U	N3-C4-O4	9.13	125.79	119.40
1	N	509	A	N1-C6-N6	9.13	124.08	118.60
1	N	608	A	N3-C4-C5	-9.13	120.41	126.80
1	N	695	A	C5-N7-C8	9.13	108.47	103.90
1	N	28	A	N9-C4-C5	-9.13	102.15	105.80
1	N	694	A	C5-C6-N6	-9.13	116.40	123.70
1	N	1062	U	C5-C6-N1	9.13	127.27	122.70
1	N	213	G	N1-C2-N3	-9.13	118.42	123.90
1	N	546	A	C5-C6-N1	-9.12	113.14	117.70
1	N	773	G	C6-C5-N7	-9.12	124.92	130.40
1	N	668	G	N3-C2-N2	9.12	126.28	119.90
1	N	739	C	C6-N1-C2	-9.12	116.65	120.30
1	N	872	A	C5-C6-N6	-9.12	116.40	123.70
1	N	923	A	C8-N9-C4	-9.12	102.15	105.80
1	N	1472	U	C4'-C3'-C2'	-9.12	93.48	102.60
1	N	116	A	C4-C5-C6	9.12	121.56	117.00
1	N	203	G	N3-C4-C5	-9.12	124.04	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	616	G	C4'-C3'-C2'	-9.12	93.48	102.60
1	N	911	U	C5-C6-N1	-9.11	118.14	122.70
1	N	1095	U	O4'-C1'-N1	9.11	115.49	108.20
1	N	1323	G	C5-C6-O6	-9.11	123.13	128.60
1	N	1242	G	N1-C2-N3	-9.11	118.43	123.90
1	N	137	U	C3'-C2'-C1'	-9.11	94.21	101.50
1	N	155	A	N1-C6-N6	9.11	124.06	118.60
1	N	279	A	C5-C6-N6	-9.11	116.42	123.70
1	N	473	U	N3-C4-C5	-9.10	109.14	114.60
1	N	528	C	C5-C4-N4	-9.10	113.83	120.20
1	N	1155	A	N7-C8-N9	-9.10	109.25	113.80
1	N	854	U	N3-C4-C5	-9.10	109.14	114.60
1	N	1173	U	P-O5'-C5'	9.10	135.46	120.90
1	N	1517	G	C6-C5-N7	-9.10	124.94	130.40
1	N	237	G	O4'-C1'-N9	9.09	115.47	108.20
1	N	959	A	C4-C5-C6	9.09	121.55	117.00
1	N	1168	U	C5-C4-O4	-9.09	120.44	125.90
1	N	1496	C	N3-C4-N4	9.09	124.36	118.00
1	N	1037	C	O4'-C1'-N1	9.08	115.47	108.20
1	N	533	A	C5-C6-N6	-9.08	116.44	123.70
1	N	722	G	C6-N1-C2	9.08	130.55	125.10
1	N	1322	C	C2-N1-C1'	9.08	128.79	118.80
1	N	1373	G	O4'-C1'-N9	9.08	115.46	108.20
1	N	913	A	C5-C6-N6	-9.08	116.44	123.70
1	N	970	C	P-O3'-C3'	9.07	130.59	119.70
1	N	1404	C	O4'-C1'-N1	9.07	115.46	108.20
1	N	1147	C	N3-C4-N4	9.07	124.35	118.00
1	N	1500	A	O4'-C1'-N9	9.07	115.46	108.20
1	N	1361	G	N9-C4-C5	9.07	109.03	105.40
1	N	264	C	C6-N1-C2	-9.07	116.67	120.30
1	N	341	C	C3'-C2'-C1'	-9.07	94.25	101.50
1	N	148	G	C5-C6-O6	-9.06	123.16	128.60
1	N	605	U	N3-C2-O2	9.06	128.54	122.20
1	N	1039	G	C5-C6-O6	-9.06	123.16	128.60
1	N	243	A	N1-C6-N6	9.06	124.04	118.60
1	N	424	G	C5-C6-O6	-9.06	123.16	128.60
1	N	185	U	C5-C6-N1	9.05	127.23	122.70
1	N	906	A	N9-C1'-C2'	-9.05	102.04	112.00
1	N	914	A	C5-C6-N1	9.05	122.23	117.70
1	N	1408	A	C5-C6-N6	-9.05	116.46	123.70
1	N	1149	C	O4'-C1'-N1	9.05	115.44	108.20
1	N	1321	U	C5-C4-O4	-9.05	120.47	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	77	A	C5-C6-N1	-9.05	113.17	117.70
1	N	1003	G	N1-C6-O6	9.05	125.33	119.90
1	N	1506	U	N3-C4-O4	9.05	125.74	119.40
1	N	179	A	C4-C5-C6	9.05	121.52	117.00
1	N	651	C	N3-C4-N4	9.05	124.33	118.00
1	N	855	U	O4'-C1'-N1	9.05	115.44	108.20
1	N	54	C	C2-N1-C1'	9.04	128.75	118.80
1	N	197	A	C2-N3-C4	-9.04	106.08	110.60
1	N	220	G	C4-C5-N7	9.04	114.42	110.80
1	N	840	C	C2-N1-C1'	9.04	128.74	118.80
1	N	996	A	N1-C6-N6	9.04	124.02	118.60
1	N	1005	A	C6-C5-N7	-9.04	125.97	132.30
1	N	1384	C	C2-N3-C4	9.04	124.42	119.90
1	N	615	G	C5-C6-O6	-9.04	123.18	128.60
1	N	197	A	N1-C2-N3	9.03	133.82	129.30
1	N	1139	G	N3-C4-C5	9.04	133.12	128.60
1	N	240	G	C5-C6-O6	-9.03	123.18	128.60
1	N	380	G	C5-N7-C8	9.03	108.82	104.30
1	N	626	G	N1-C6-O6	9.03	125.32	119.90
1	N	1015	G	O4'-C1'-N9	9.03	115.43	108.20
1	N	1067	A	C6-C5-N7	-9.03	125.98	132.30
1	N	85	U	O4'-C1'-N1	9.03	115.42	108.20
1	N	126	G	C6-C5-N7	-9.03	124.98	130.40
1	N	360	G	C3'-C2'-C1'	9.03	108.72	101.50
1	N	130	A	C5-C6-N6	-9.02	116.48	123.70
1	N	775	G	C8-N9-C4	-9.02	102.79	106.40
1	N	1016	A	C4-C5-C6	9.02	121.51	117.00
1	N	533	A	C3'-C2'-C1'	-9.02	94.28	101.50
1	N	926	G	C5-C6-N1	-9.02	106.99	111.50
1	N	530	G	C5-C6-O6	-9.02	123.19	128.60
1	N	700	G	N1-C6-O6	9.02	125.31	119.90
1	N	746	A	O4'-C1'-N9	9.02	115.42	108.20
1	N	1475	G	N3-C2-N2	9.02	126.21	119.90
1	N	1479	C	O4'-C1'-N1	9.02	115.42	108.20
1	N	258	G	C6-C5-N7	-9.02	124.99	130.40
1	N	659	U	C2-N3-C4	9.02	132.41	127.00
1	N	838	G	C4-C5-C6	9.01	124.21	118.80
1	N	1236	A	P-O3'-C3'	9.01	130.51	119.70
1	N	645	G	O4'-C1'-N9	9.01	115.41	108.20
1	N	940	C	N3-C4-N4	9.01	124.31	118.00
1	N	1000	A	C4-C5-C6	9.01	121.50	117.00
1	N	1016	A	C5-C6-N6	-9.01	116.49	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	933	G	N1-C6-O6	9.01	125.30	119.90
1	N	974	A	O4'-C1'-N9	9.01	115.41	108.20
1	N	1279	G	C5-C6-O6	-9.01	123.20	128.60
1	N	259	G	O4'-C1'-N9	9.00	115.40	108.20
1	N	1388	C	N3-C4-N4	9.00	124.30	118.00
1	N	1117	A	N1-C6-N6	9.00	124.00	118.60
1	N	1484	C	C2-N3-C4	9.00	124.40	119.90
1	N	953	G	C4-C5-N7	8.99	114.40	110.80
1	N	255	G	C4-C5-N7	-8.99	107.20	110.80
1	N	461	A	N9-C4-C5	8.99	109.40	105.80
1	N	966	G	C4-C5-N7	8.99	114.40	110.80
1	N	197	A	P-O3'-C3'	8.99	130.49	119.70
1	N	232	G	O4'-C1'-N9	8.99	115.39	108.20
1	N	518	C	O4'-C1'-N1	8.99	115.39	108.20
1	N	1348	U	O4'-C1'-N1	8.99	115.39	108.20
1	N	1447	A	N1-C6-N6	8.99	123.99	118.60
1	N	184	G	N1-C6-O6	8.99	125.29	119.90
1	N	1478	U	O4'-C1'-N1	8.99	115.39	108.20
1	N	353	A	C5-C6-N6	-8.98	116.51	123.70
1	N	660	C	C6-N1-C2	8.98	123.89	120.30
1	N	1142	G	C4-C5-C6	8.98	124.19	118.80
1	N	527	G	C2-N3-C4	8.98	116.39	111.90
1	N	180	U	O4'-C1'-N1	8.98	115.38	108.20
1	N	398	U	O4'-C1'-N1	8.98	115.38	108.20
1	N	1078	U	C5-C4-O4	-8.98	120.51	125.90
1	N	1093	A	N7-C8-N9	-8.98	109.31	113.80
1	N	264	C	C5-C4-N4	-8.97	113.92	120.20
1	N	481	G	O4'-C1'-N9	8.97	115.38	108.20
1	N	587	G	C4-C5-N7	8.97	114.39	110.80
1	N	922	G	C4-C5-C6	8.97	124.18	118.80
1	N	1132	C	O4'-C1'-N1	8.97	115.38	108.20
1	N	925	G	C5-C6-N1	-8.97	107.02	111.50
1	N	411	A	C5-C6-N1	-8.97	113.22	117.70
1	N	758	C	C6-N1-C2	8.97	123.89	120.30
1	N	766	A	N1-C2-N3	8.96	133.78	129.30
1	N	112	G	O4'-C1'-N9	8.96	115.37	108.20
1	N	254	G	C2-N3-C4	-8.96	107.42	111.90
1	N	702	A	O4'-C1'-N9	8.96	115.37	108.20
1	N	1250	A	C5-C6-N6	-8.96	116.54	123.70
1	N	159	G	O4'-C1'-N9	8.95	115.36	108.20
1	N	469	C	O4'-C1'-N1	8.95	115.36	108.20
1	N	1000	A	C2-N3-C4	-8.95	106.12	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	689	C	C6-N1-C2	-8.95	116.72	120.30
1	N	230	G	N3-C4-C5	-8.95	124.13	128.60
1	N	1091	U	C5-C6-N1	8.95	127.17	122.70
1	N	918	A	N1-C6-N6	8.95	123.97	118.60
1	N	30	U	N3-C4-O4	8.94	125.66	119.40
1	N	253	A	O4'-C1'-N9	8.94	115.35	108.20
1	N	1255	G	C4-C5-N7	8.94	114.38	110.80
1	N	13	U	P-O3'-C3'	8.94	130.43	119.70
1	N	1413	A	C4-C5-C6	8.94	121.47	117.00
1	N	277	C	N3-C4-C5	-8.94	118.33	121.90
1	N	456	A	C5-C6-N1	-8.94	113.23	117.70
1	N	1042	A	C5-C6-N1	-8.93	113.23	117.70
1	N	1056	U	N1-C2-N3	-8.93	109.54	114.90
1	N	1203	C	C5-C4-N4	-8.93	113.95	120.20
1	N	75	G	N1-C2-N3	-8.93	118.54	123.90
1	N	198	G	O4'-C1'-N9	8.93	115.34	108.20
1	N	530	G	N3-C4-C5	-8.93	124.14	128.60
1	N	809	G	N1-C2-N3	-8.92	118.55	123.90
1	N	81	A	N1-C6-N6	8.92	123.95	118.60
1	N	328	C	O4'-C1'-N1	8.92	115.34	108.20
1	N	865	A	C5-C6-N6	-8.92	116.56	123.70
1	N	1064	G	N1-C6-O6	8.92	125.25	119.90
1	N	894	G	N1-C6-O6	8.92	125.25	119.90
1	N	68	G	N7-C8-N9	8.91	117.56	113.10
1	N	310	G	O4'-C1'-N9	8.91	115.33	108.20
1	N	520	A	O4'-C1'-N9	8.91	115.33	108.20
1	N	635	A	C4-C5-C6	8.91	121.46	117.00
1	N	686	U	O4'-C1'-C2'	-8.91	96.89	105.80
1	N	1185	G	O4'-C1'-N9	8.91	115.33	108.20
1	N	642	A	C8-N9-C4	-8.91	102.23	105.80
1	N	1373	G	C8-N9-C4	8.91	109.97	106.40
1	N	1520	C	C5-C4-N4	-8.91	113.96	120.20
1	N	780	A	C8-N9-C4	-8.91	102.24	105.80
1	N	516	U	N3-C4-O4	8.90	125.63	119.40
1	N	178	C	O4'-C1'-N1	8.90	115.32	108.20
1	N	243	A	C5-C6-N6	-8.90	116.58	123.70
1	N	361	G	N3-C2-N2	8.90	126.13	119.90
1	N	461	A	N7-C8-N9	8.90	118.25	113.80
1	N	517	G	N1-C6-O6	8.90	125.24	119.90
1	N	926	G	C4-C5-C6	8.90	124.14	118.80
1	N	25	C	C2-N3-C4	8.89	124.35	119.90
1	N	115	G	C4-C5-N7	8.89	114.36	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	271	C	C6-N1-C2	8.89	123.86	120.30
1	N	1449	C	N3-C4-N4	8.89	124.22	118.00
1	N	883	C	N3-C4-C5	-8.89	118.34	121.90
1	N	788	U	C5'-C4'-C3'	-8.88	101.78	116.00
1	N	16	A	N9-C4-C5	-8.88	102.25	105.80
1	N	1020	G	C6-N1-C2	8.88	130.43	125.10
1	N	1094	G	P-O3'-C3'	8.88	130.36	119.70
1	N	941	G	P-O3'-C3'	8.88	130.35	119.70
1	N	1170	A	P-O3'-C3'	8.88	130.35	119.70
1	N	1276	G	C8-N9-C4	-8.88	102.85	106.40
1	N	139	A	C4-C5-C6	8.88	121.44	117.00
1	N	281	G	O4'-C1'-N9	8.88	115.30	108.20
1	N	321	A	O4'-C1'-N9	8.88	115.30	108.20
1	N	397	A	C6-C5-N7	-8.88	126.09	132.30
1	N	612	C	N3-C4-C5	-8.88	118.35	121.90
1	N	782	A	C4-C5-C6	8.87	121.44	117.00
1	N	1123	U	O4'-C1'-N1	8.87	115.30	108.20
1	N	668	G	N7-C8-N9	-8.87	108.66	113.10
1	N	476	U	O4'-C1'-N1	8.87	115.30	108.20
1	N	666	G	C5-C6-N1	-8.87	107.07	111.50
1	N	1012	A	O4'-C1'-N9	8.87	115.30	108.20
1	N	1323	G	O4'-C4'-C3'	-8.87	95.13	104.00
1	N	1354	U	O4'-C1'-N1	8.87	115.30	108.20
1	N	327	A	C5-C6-N1	-8.87	113.27	117.70
1	N	883	C	P-O5'-C5'	8.86	135.08	120.90
1	N	1485	U	N3-C4-C5	-8.87	109.28	114.60
1	N	539	A	O4'-C1'-N9	8.86	115.29	108.20
1	N	172	A	C6-C5-N7	-8.86	126.10	132.30
1	N	1517	G	N9-C4-C5	-8.86	101.86	105.40
1	N	451	A	O4'-C1'-N9	8.85	115.28	108.20
1	N	780	A	N9-C4-C5	8.85	109.34	105.80
1	N	1374	A	C5-N7-C8	8.85	108.33	103.90
1	N	633	G	C2-N3-C4	8.85	116.33	111.90
1	N	1054	C	N3-C4-N4	8.85	124.20	118.00
1	N	348	G	C8-N9-C4	-8.85	102.86	106.40
1	N	195	A	C5-C6-N1	-8.85	113.28	117.70
1	N	206	C	C5-C4-N4	-8.85	114.00	120.20
1	N	1184	G	C4-C5-N7	-8.85	107.26	110.80
1	N	1236	A	C4-C5-C6	8.85	121.42	117.00
1	N	694	A	C4-C5-C6	8.85	121.42	117.00
1	N	356	A	O4'-C1'-N9	8.84	115.28	108.20
1	N	379	C	N3-C4-N4	8.84	124.19	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	443	C	P-O3'-C3'	-8.84	109.09	119.70
1	N	660	C	O4'-C1'-N1	8.84	115.27	108.20
1	N	451	A	N1-C6-N6	8.84	123.90	118.60
1	N	1208	C	O4'-C1'-N1	8.84	115.27	108.20
1	N	83	C	N3-C4-N4	8.84	124.18	118.00
1	N	694	A	C5-C6-N1	-8.84	113.28	117.70
1	N	911	U	C4-C5-C6	8.83	125.00	119.70
1	N	1167	A	O4'-C1'-N9	8.83	115.27	108.20
1	N	688	G	N1-C6-O6	8.83	125.20	119.90
1	N	777	A	N1-C2-N3	8.83	133.72	129.30
1	N	785	G	C5-C6-N1	-8.83	107.08	111.50
1	N	1113	C	N3-C4-C5	-8.83	118.37	121.90
1	N	1432	G	C8-N9-C4	-8.83	102.87	106.40
1	N	1513	A	C5-C6-N1	-8.83	113.28	117.70
1	N	406	G	C5-N7-C8	-8.83	99.89	104.30
1	N	917	G	C5-N7-C8	8.83	108.71	104.30
1	N	997	U	N3-C2-O2	8.83	128.38	122.20
1	N	110	C	C2-N3-C4	-8.82	115.49	119.90
1	N	328	C	N3-C4-C5	-8.82	118.37	121.90
1	N	1127	G	N1-C2-N3	-8.82	118.61	123.90
1	N	1196	A	N1-C2-N3	8.82	133.71	129.30
1	N	1363	A	C5-C6-N1	-8.82	113.29	117.70
1	N	531	U	P-O5'-C5'	8.82	135.01	120.90
1	N	852	G	N7-C8-N9	-8.82	108.69	113.10
1	N	134	G	O4'-C1'-N9	8.82	115.25	108.20
1	N	659	U	N3-C2-O2	8.82	128.37	122.20
1	N	246	A	C5-C6-N6	-8.82	116.65	123.70
1	N	1449	C	C6-N1-C2	-8.82	116.77	120.30
1	N	450	G	C5-N7-C8	-8.82	99.89	104.30
1	N	726	C	C2-N3-C4	8.82	124.31	119.90
1	N	8	A	N1-C6-N6	8.81	123.89	118.60
1	N	124	C	O4'-C1'-N1	8.81	115.25	108.20
1	N	247	G	C5-N7-C8	-8.81	99.89	104.30
1	N	694	A	N1-C2-N3	8.81	133.71	129.30
1	N	1111	A	C8-N9-C4	-8.81	102.28	105.80
1	N	1193	G	N9-C4-C5	-8.81	101.87	105.40
1	N	359	G	N1-C2-N3	-8.81	118.61	123.90
1	N	568	G	O4'-C1'-N9	8.81	115.25	108.20
1	N	604	G	C4-C5-C6	8.81	124.09	118.80
1	N	780	A	C4-C5-C6	8.81	121.41	117.00
1	N	709	U	C2-N3-C4	-8.81	121.71	127.00
1	N	1078	U	N3-C4-O4	8.81	125.57	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	742	G	O4'-C1'-N9	8.81	115.25	108.20
1	N	48	C	N3-C4-C5	-8.81	118.38	121.90
1	N	1329	A	N9-C4-C5	8.81	109.32	105.80
1	N	1408	A	O4'-C1'-N9	8.81	115.25	108.20
1	N	858	G	C8-N9-C4	-8.81	102.88	106.40
1	N	1531	A	C4-C5-C6	8.80	121.40	117.00
1	N	191	G	C4-C5-C6	8.80	124.08	118.80
1	N	314	C	C4'-C3'-C2'	-8.80	93.80	102.60
1	N	1492	A	C4-C5-C6	8.80	121.40	117.00
1	N	408	A	N1-C6-N6	8.79	123.88	118.60
1	N	493	A	C8-N9-C4	8.79	109.32	105.80
1	N	124	C	N3-C4-N4	8.79	124.16	118.00
1	N	750	C	C5-C4-N4	-8.79	114.05	120.20
1	N	104	G	N1-C6-O6	8.79	125.17	119.90
1	N	65	A	C4-C5-C6	8.79	121.39	117.00
1	N	715	A	C5-C6-N6	-8.79	116.67	123.70
1	N	1264	U	O4'-C1'-N1	8.79	115.23	108.20
1	N	104	G	N3-C4-C5	-8.78	124.21	128.60
1	N	192	A	C5-C6-N1	-8.78	113.31	117.70
1	N	695	A	C5-C6-N6	-8.78	116.67	123.70
1	N	921	U	O4'-C1'-N1	8.78	115.23	108.20
1	N	650	G	N9-C4-C5	8.78	108.91	105.40
1	N	182	A	O4'-C1'-N9	8.78	115.22	108.20
1	N	358	U	O4'-C1'-N1	8.78	115.22	108.20
1	N	1080	A	C4-C5-C6	8.78	121.39	117.00
1	N	85	U	N1-C2-N3	-8.78	109.64	114.90
1	N	310	G	N1-C6-O6	8.78	125.17	119.90
1	N	527	G	N1-C2-N3	-8.77	118.64	123.90
1	N	702	A	C5-C6-N1	-8.77	113.32	117.70
1	N	71	A	C6-C5-N7	-8.77	126.16	132.30
1	N	97	G	C8-N9-C4	-8.77	102.89	106.40
1	N	455	G	O4'-C1'-N9	8.76	115.21	108.20
1	N	1405	G	N1-C6-O6	8.76	125.16	119.90
1	N	50	A	N9-C4-C5	8.76	109.30	105.80
1	N	629	A	N1-C6-N6	8.76	123.86	118.60
1	N	1321	U	N3-C4-O4	8.76	125.53	119.40
1	N	122	G	C8-N9-C4	-8.76	102.90	106.40
1	N	1110	A	O4'-C1'-N9	8.76	115.20	108.20
1	N	1166	G	N1-C2-N2	-8.76	108.32	116.20
1	N	1504	G	C5-C6-N1	-8.76	107.12	111.50
1	N	557	G	N1-C6-O6	8.75	125.15	119.90
1	N	54	C	C6-N1-C2	-8.75	116.80	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	242	G	C5-C6-O6	-8.75	123.35	128.60
1	N	353	A	N3-C4-C5	-8.75	120.67	126.80
1	N	249	U	C4-C5-C6	8.75	124.95	119.70
1	N	720	C	O4'-C1'-N1	8.75	115.20	108.20
1	N	352	C	C1'-O4'-C4'	8.75	116.90	109.90
1	N	795	C	C5-C4-N4	8.75	126.32	120.20
1	N	853	C	O4'-C1'-N1	8.75	115.20	108.20
1	N	887	G	C4-C5-N7	8.75	114.30	110.80
1	N	1141	C	O4'-C1'-N1	8.75	115.20	108.20
1	N	1514	G	N1-C6-O6	8.74	125.15	119.90
1	N	371	A	C4-C5-C6	8.74	121.37	117.00
1	N	932	C	C6-N1-C2	-8.74	116.80	120.30
1	N	104	G	O4'-C1'-N9	8.74	115.19	108.20
1	N	629	A	C6-C5-N7	-8.74	126.18	132.30
1	N	749	A	C5-C6-N6	-8.74	116.71	123.70
1	N	485	U	O4'-C1'-N1	8.74	115.19	108.20
1	N	152	A	N9-C4-C5	8.73	109.29	105.80
1	N	897	C	C5-C6-N1	8.73	125.37	121.00
1	N	676	A	O4'-C1'-N9	8.73	115.19	108.20
1	N	1476	A	C5-C6-N6	-8.73	116.71	123.70
1	N	805	C	P-O5'-C5'	8.73	134.87	120.90
1	N	112	G	N1-C2-N2	-8.73	108.34	116.20
1	N	1487	G	N9-C4-C5	-8.73	101.91	105.40
1	N	962	C	O4'-C1'-N1	8.72	115.18	108.20
1	N	40	C	C6-N1-C2	-8.72	116.81	120.30
1	N	126	G	O4'-C1'-N9	8.72	115.18	108.20
1	N	578	C	C5-C6-N1	8.72	125.36	121.00
1	N	880	C	C2-N3-C4	8.72	124.26	119.90
1	N	169	C	C5-C6-N1	8.72	125.36	121.00
1	N	256	U	P-O5'-C5'	8.72	134.85	120.90
1	N	981	U	O4'-C1'-N1	8.72	115.17	108.20
1	N	1033	G	C4-C5-N7	-8.72	107.31	110.80
1	N	1489	G	N1-C6-O6	8.72	125.13	119.90
1	N	540	G	N1-C6-O6	8.71	125.13	119.90
1	N	881	G	N7-C8-N9	-8.72	108.74	113.10
1	N	1035	A	C5-C6-N6	-8.72	116.73	123.70
1	N	601	G	C5-N7-C8	8.71	108.66	104.30
1	N	944	G	N1-C6-O6	8.71	125.13	119.90
1	N	1375	A	O4'-C1'-N9	8.71	115.17	108.20
1	N	61	G	C1'-O4'-C4'	-8.71	102.93	109.90
1	N	72	A	N7-C8-N9	-8.71	109.45	113.80
1	N	1131	G	C4-C5-C6	8.71	124.03	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1325	C	N3-C4-N4	8.71	124.09	118.00
1	N	313	A	N1-C6-N6	8.71	123.82	118.60
1	N	663	A	O4'-C1'-N9	8.71	115.16	108.20
1	N	869	G	C8-N9-C4	-8.71	102.92	106.40
1	N	383	A	N7-C8-N9	8.70	118.15	113.80
1	N	976	G	C6-N1-C2	8.70	130.32	125.10
1	N	1281	C	P-O3'-C3'	8.70	130.14	119.70
1	N	1405	G	C5-C6-O6	-8.70	123.38	128.60
1	N	1177	G	N1-C6-O6	8.70	125.12	119.90
1	N	363	A	C5-C6-N6	-8.70	116.74	123.70
1	N	546	A	O4'-C1'-N9	8.70	115.16	108.20
1	N	247	G	C4-C5-C6	-8.69	113.58	118.80
1	N	574	A	C5-N7-C8	8.69	108.25	103.90
1	N	888	G	C4-C5-N7	8.69	114.28	110.80
1	N	1260	G	N1-C6-O6	8.69	125.11	119.90
1	N	26	A	C8-N9-C4	-8.69	102.33	105.80
1	N	831	A	C5-C6-N1	-8.69	113.36	117.70
1	N	1162	C	C2-N3-C4	8.69	124.24	119.90
1	N	1177	G	C4-C5-N7	8.69	114.28	110.80
1	N	1274	A	P-O5'-C5'	8.69	134.80	120.90
1	N	815	A	C5-N7-C8	8.69	108.24	103.90
1	N	558	G	C2-N3-C4	8.68	116.24	111.90
1	N	856	C	O4'-C1'-N1	8.68	115.14	108.20
1	N	102	G	N9-C4-C5	-8.68	101.93	105.40
1	N	274	A	P-O3'-C3'	8.68	130.12	119.70
1	N	993	G	C6-N1-C2	8.68	130.31	125.10
1	N	1093	A	C5-C6-N1	-8.68	113.36	117.70
1	N	738	C	C6-N1-C2	-8.68	116.83	120.30
1	N	821	G	O4'-C1'-N9	8.68	115.14	108.20
1	N	1151	A	C1'-O4'-C4'	8.68	116.84	109.90
1	N	1276	G	N3-C2-N2	8.68	125.97	119.90
1	N	535	A	P-O3'-C3'	8.68	130.11	119.70
1	N	1030	U	C2-N3-C4	8.68	132.21	127.00
1	N	650	G	C2-N3-C4	8.67	116.24	111.90
1	N	1305	G	N3-C2-N2	8.67	125.97	119.90
1	N	726	C	C6-N1-C2	-8.67	116.83	120.30
1	N	933	G	C8-N9-C4	8.67	109.87	106.40
1	N	975	A	C5-C6-N1	-8.67	113.36	117.70
1	N	1436	U	P-O3'-C3'	8.67	130.10	119.70
1	N	1491	G	C4-C5-C6	8.67	124.00	118.80
1	N	20	U	O4'-C1'-N1	8.67	115.13	108.20
1	N	409	U	P-O3'-C3'	8.67	130.10	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	857	C	O4'-C1'-N1	8.67	115.13	108.20
1	N	922	G	N3-C2-N2	8.67	125.97	119.90
1	N	1388	C	C6-N1-C2	-8.67	116.83	120.30
1	N	1529	G	C4-C5-C6	8.67	124.00	118.80
1	N	1345	U	C5-C4-O4	-8.66	120.70	125.90
1	N	1519	A	C2-N3-C4	8.66	114.93	110.60
1	N	151	A	N1-C2-N3	8.66	133.63	129.30
1	N	274	A	O4'-C1'-N9	8.66	115.13	108.20
1	N	1469	C	N3-C4-C5	-8.66	118.44	121.90
1	N	402	G	N1-C2-N3	-8.66	118.70	123.90
1	N	1107	C	C2-N3-C4	8.66	124.23	119.90
1	N	300	A	C4-C5-C6	8.66	121.33	117.00
1	N	556	C	N3-C4-C5	-8.66	118.44	121.90
1	N	1488	G	N3-C2-N2	8.66	125.96	119.90
1	N	660	C	N3-C4-N4	8.65	124.06	118.00
1	N	1041	G	N1-C6-O6	8.65	125.09	119.90
1	N	1209	C	N3-C4-N4	8.65	124.06	118.00
1	N	1240	U	C4-C5-C6	-8.65	114.51	119.70
1	N	41	G	C4-C5-C6	8.65	123.99	118.80
1	N	299	G	N9-C4-C5	-8.65	101.94	105.40
1	N	1096	C	C5-C6-N1	8.65	125.32	121.00
1	N	752	G	C6-N1-C2	8.64	130.29	125.10
1	N	756	C	N3-C4-N4	8.64	124.05	118.00
1	N	1149	C	N1-C2-N3	-8.64	113.15	119.20
1	N	1388	C	N1-C2-O2	-8.64	113.71	118.90
1	N	1433	A	C5-N7-C8	8.64	108.22	103.90
1	N	187	G	C6-C5-N7	-8.64	125.22	130.40
1	N	381	C	C3'-C2'-C1'	-8.64	94.59	101.50
1	N	776	G	C2-N3-C4	-8.64	107.58	111.90
1	N	329	A	C5-C6-N6	-8.63	116.79	123.70
1	N	1517	G	C4-C5-N7	8.63	114.25	110.80
1	N	50	A	C5-C6-N6	-8.63	116.80	123.70
1	N	1025	U	P-O3'-C3'	8.63	130.06	119.70
1	N	102	G	C2-N3-C4	-8.63	107.58	111.90
1	N	107	G	N3-C2-N2	8.63	125.94	119.90
1	N	202	G	N3-C2-N2	8.63	125.94	119.90
1	N	1074	G	C6-C5-N7	-8.63	125.22	130.40
1	N	17	U	O4'-C1'-N1	8.63	115.10	108.20
1	N	452	A	O4'-C1'-N9	8.63	115.10	108.20
1	N	547	A	N1-C6-N6	8.63	123.78	118.60
1	N	1164	G	N7-C8-N9	8.63	117.41	113.10
1	N	1134	G	P-O3'-C3'	8.63	130.05	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1154	G	C5-C6-O6	-8.63	123.42	128.60
1	N	192	A	P-O3'-C3'	8.62	130.05	119.70
1	N	161	A	O4'-C1'-N9	8.62	115.10	108.20
1	N	827	U	C5-C6-N1	8.62	127.01	122.70
1	N	1281	C	C5-C4-N4	-8.62	114.17	120.20
1	N	329	A	C8-N9-C4	-8.62	102.35	105.80
1	N	681	A	C8-N9-C4	-8.61	102.36	105.80
1	N	39	G	O4'-C1'-N9	8.61	115.09	108.20
1	N	51	A	C5-C6-N6	-8.61	116.81	123.70
1	N	1243	C	N3-C4-C5	-8.61	118.45	121.90
1	N	1404	C	C2-N3-C4	8.61	124.21	119.90
1	N	527	G	N3-C4-C5	-8.61	124.30	128.60
1	N	1046	A	N1-C6-N6	8.61	123.77	118.60
1	N	981	U	C5-C6-N1	8.61	127.00	122.70
1	N	1349	A	O4'-C1'-N9	8.61	115.09	108.20
1	N	1129	C	N1-C2-O2	-8.61	113.74	118.90
1	N	1467	C	N3-C4-C5	-8.61	118.46	121.90
1	N	1507	A	P-O5'-C5'	8.61	134.67	120.90
1	N	329	A	P-O3'-C3'	-8.60	109.38	119.70
1	N	952	U	O4'-C1'-N1	8.60	115.08	108.20
1	N	560	A	N9-C4-C5	8.60	109.24	105.80
1	N	949	A	C5-C6-N6	-8.60	116.82	123.70
1	N	953	G	N9-C4-C5	-8.60	101.96	105.40
1	N	901	A	C4-C5-C6	8.60	121.30	117.00
1	N	926	G	C5-C6-O6	-8.60	123.44	128.60
1	N	330	C	C6-N1-C2	-8.59	116.86	120.30
1	N	685	G	N1-C2-N2	-8.59	108.47	116.20
1	N	765	G	C8-N9-C4	-8.59	102.96	106.40
1	N	1386	G	C6-C5-N7	-8.59	125.25	130.40
1	N	120	A	C1'-O4'-C4'	-8.59	103.03	109.90
1	N	305	G	N3-C2-N2	8.59	125.91	119.90
1	N	10	A	P-O5'-C5'	8.58	134.63	120.90
1	N	905	U	N1-C2-O2	-8.58	116.79	122.80
1	N	1129	C	C2-N1-C1'	8.58	128.24	118.80
1	N	159	G	C8-N9-C4	8.58	109.83	106.40
1	N	189	A	C5-C6-N1	-8.58	113.41	117.70
1	N	872	A	C5-C6-N1	-8.58	113.41	117.70
1	N	539	A	C5-C6-N6	-8.58	116.84	123.70
1	N	287	U	O4'-C1'-N1	8.58	115.06	108.20
1	N	378	G	O4'-C4'-C3'	-8.58	95.42	104.00
1	N	614	C	N3-C4-C5	-8.58	118.47	121.90
1	N	1466	C	P-O3'-C3'	8.58	129.99	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	862	C	O4'-C1'-N1	8.57	115.06	108.20
1	N	873	A	C5-N7-C8	8.57	108.19	103.90
1	N	1181	G	C4-C5-C6	8.57	123.94	118.80
1	N	1519	A	C5-N7-C8	8.57	108.19	103.90
1	N	1194	U	C5-C4-O4	-8.57	120.76	125.90
1	N	81	A	C6-C5-N7	-8.56	126.30	132.30
1	N	423	G	N3-C4-C5	-8.56	124.32	128.60
1	N	877	G	P-O3'-C3'	-8.56	109.42	119.70
1	N	1443	C	N3-C4-N4	8.56	123.99	118.00
1	N	95	C	O4'-C1'-N1	8.56	115.05	108.20
1	N	869	G	C6-N1-C2	8.55	130.23	125.10
1	N	1379	G	C4-C5-C6	8.55	123.93	118.80
1	N	1503	A	C5-C6-N1	-8.55	113.42	117.70
1	N	7	A	C8-N9-C4	8.55	109.22	105.80
1	N	374	A	C5-C6-N1	-8.55	113.42	117.70
1	N	1032	G	N9-C4-C5	-8.55	101.98	105.40
1	N	1263	C	C2-N3-C4	8.55	124.18	119.90
1	N	1307	U	C5-C6-N1	-8.55	118.42	122.70
1	N	208	U	N3-C2-O2	8.55	128.19	122.20
1	N	570	G	C5-C6-O6	-8.55	123.47	128.60
1	N	892	A	C5-C6-N6	-8.55	116.86	123.70
1	N	1287	A	N1-C2-N3	-8.55	125.03	129.30
1	N	151	A	N1-C6-N6	8.54	123.72	118.60
1	N	41	G	N3-C4-C5	-8.54	124.33	128.60
1	N	90	C	C5'-C4'-C3'	8.54	129.66	116.00
1	N	941	G	N7-C8-N9	8.54	117.37	113.10
1	N	689	C	C5-C6-N1	8.53	125.27	121.00
1	N	1159	U	N1-C2-N3	-8.53	109.78	114.90
1	N	1331	G	N1-C2-N3	-8.53	118.78	123.90
1	N	413	G	C4-N9-C1'	8.53	137.58	126.50
1	N	704	A	N3-C4-N9	8.53	134.22	127.40
1	N	225	C	N3-C4-N4	8.52	123.97	118.00
1	N	493	A	P-O3'-C3'	8.52	129.93	119.70
1	N	1178	G	N3-C2-N2	8.52	125.87	119.90
1	N	1136	C	C5-C6-N1	8.52	125.26	121.00
1	N	983	A	C5-C6-N1	-8.52	113.44	117.70
1	N	497	G	O4'-C1'-N9	8.52	115.01	108.20
1	N	636	U	O4'-C1'-N1	8.52	115.02	108.20
1	N	885	G	C4-C5-C6	8.52	123.91	118.80
1	N	1470	U	N1-C2-N3	-8.52	109.79	114.90
1	N	890	G	P-O5'-C5'	8.52	134.53	120.90
1	N	19	A	C5-C6-N6	-8.52	116.89	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	609	A	C4-C5-N7	-8.51	106.44	110.70
1	N	689	C	C2-N3-C4	8.51	124.16	119.90
1	N	1047	G	O4'-C1'-N9	8.51	115.01	108.20
1	N	391	G	C5-C6-O6	-8.51	123.49	128.60
1	N	610	U	P-O3'-C3'	8.51	129.91	119.70
1	N	755	G	C6-C5-N7	-8.51	125.29	130.40
1	N	1363	A	O4'-C1'-N9	8.51	115.01	108.20
1	N	1243	C	P-O5'-C5'	8.51	134.51	120.90
1	N	303	A	N7-C8-N9	-8.51	109.55	113.80
1	N	361	G	N7-C8-N9	8.51	117.35	113.10
1	N	474	G	C8-N9-C4	8.51	109.80	106.40
1	N	1031	C	N3-C4-C5	-8.51	118.50	121.90
1	N	15	G	C5-N7-C8	-8.50	100.05	104.30
1	N	499	A	N7-C8-N9	-8.50	109.55	113.80
1	N	880	C	N3-C4-N4	8.50	123.95	118.00
1	N	1159	U	C5-C4-O4	-8.50	120.80	125.90
1	N	86	G	C2-N3-C4	8.50	116.15	111.90
1	N	1515	G	C5-N7-C8	8.50	108.55	104.30
1	N	933	G	N1-C2-N3	-8.50	118.80	123.90
1	N	302	G	C2-N3-C4	8.50	116.15	111.90
1	N	794	A	C3'-C2'-C1'	8.50	108.30	101.50
1	N	1004	A	N3-C4-N9	-8.50	120.60	127.40
1	N	762	U	N3-C4-O4	8.49	125.35	119.40
1	N	50	A	P-O5'-C5'	8.49	134.49	120.90
1	N	346	G	N3-C2-N2	8.49	125.84	119.90
1	N	775	G	C5-C6-N1	-8.49	107.25	111.50
1	N	55	A	N1-C6-N6	8.49	123.69	118.60
1	N	382	A	C5-C6-N6	-8.49	116.91	123.70
1	N	1487	G	C4-C5-N7	8.49	114.20	110.80
1	N	819	A	O4'-C1'-N9	8.49	114.99	108.20
1	N	889	A	C3'-C2'-C1'	8.49	108.29	101.50
1	N	942	G	N9-C4-C5	8.49	108.80	105.40
1	N	1290	G	C4-C5-N7	8.48	114.19	110.80
1	N	397	A	C4-C5-C6	8.48	121.24	117.00
1	N	540	G	N1-C2-N3	-8.48	118.81	123.90
1	N	939	G	C5-C6-O6	-8.48	123.51	128.60
1	N	343	U	C5-C4-O4	-8.48	120.81	125.90
1	N	858	G	C4-C5-C6	8.48	123.89	118.80
1	N	1042	A	C8-N9-C4	8.48	109.19	105.80
1	N	211	G	N1-C2-N3	-8.48	118.81	123.90
1	N	1224	U	P-O3'-C3'	8.48	129.87	119.70
1	N	1467	C	N3-C4-N4	8.48	123.94	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	107	G	C4-C5-N7	-8.48	107.41	110.80
1	N	269	C	N1-C2-O2	-8.48	113.81	118.90
1	N	336	A	C6-N1-C2	8.48	123.69	118.60
1	N	1256	A	N1-C6-N6	8.48	123.69	118.60
1	N	1305	G	O4'-C1'-N9	8.48	114.98	108.20
1	N	1443	C	O4'-C1'-N1	8.48	114.98	108.20
1	N	888	G	C6-C5-N7	-8.47	125.31	130.40
1	N	1069	C	O4'-C4'-C3'	-8.47	95.53	104.00
1	N	462	G	N1-C2-N3	-8.47	118.82	123.90
1	N	498	A	C5-C6-N6	-8.47	116.92	123.70
1	N	947	G	C4-C5-C6	8.47	123.88	118.80
1	N	63	C	C6-N1-C1'	-8.47	110.64	120.80
1	N	885	G	C5-C6-O6	-8.47	123.52	128.60
1	N	1534	A	C5-C6-N6	-8.47	116.92	123.70
1	N	362	G	N3-C2-N2	8.47	125.83	119.90
1	N	376	G	O4'-C1'-N9	8.47	114.97	108.20
1	N	540	G	C8-N9-C4	-8.47	103.01	106.40
1	N	1518	A	C4-C5-N7	-8.47	106.47	110.70
1	N	255	G	O4'-C1'-N9	8.46	114.97	108.20
1	N	247	G	C5-C6-O6	-8.46	123.52	128.60
1	N	704	A	O4'-C1'-N9	8.46	114.97	108.20
1	N	1119	C	C5-C4-N4	-8.46	114.28	120.20
1	N	1255	G	N9-C4-C5	-8.46	102.02	105.40
1	N	174	A	C2-N3-C4	8.46	114.83	110.60
1	N	483	C	C2-N1-C1'	8.46	128.10	118.80
1	N	71	A	N3-C4-C5	-8.46	120.88	126.80
1	N	709	U	C5-C6-N1	8.45	126.93	122.70
1	N	201	G	C1'-O4'-C4'	8.45	116.66	109.90
1	N	1338	G	O4'-C4'-C3'	-8.45	95.55	104.00
1	N	503	C	OP1-P-OP2	-8.45	106.93	119.60
1	N	1270	G	N9-C4-C5	-8.45	102.02	105.40
1	N	76	G	C5-C6-O6	-8.45	123.53	128.60
1	N	83	C	C2-N3-C4	8.44	124.12	119.90
1	N	504	C	C5-C4-N4	-8.45	114.29	120.20
1	N	65	A	O4'-C1'-N9	8.44	114.95	108.20
1	N	1172	C	C1'-O4'-C4'	8.44	116.65	109.90
1	N	111	G	C5-N7-C8	8.44	108.52	104.30
1	N	172	A	N9-C4-C5	8.44	109.17	105.80
1	N	800	G	P-O5'-C5'	8.44	134.40	120.90
1	N	937	A	C8-N9-C4	-8.44	102.42	105.80
1	N	1073	U	N3-C4-C5	-8.44	109.54	114.60
1	N	462	G	N3-C4-N9	8.44	131.06	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	579	A	C5-C6-N6	-8.44	116.95	123.70
1	N	1159	U	C3'-C2'-C1'	-8.44	94.75	101.50
1	N	1060	U	C5-C4-O4	-8.44	120.84	125.90
1	N	661	G	N1-C2-N3	-8.43	118.84	123.90
1	N	350	G	N3-C4-C5	8.43	132.81	128.60
1	N	1227	A	N1-C6-N6	8.43	123.66	118.60
1	N	1236	A	O4'-C1'-N9	8.43	114.94	108.20
1	N	873	A	C2-N3-C4	-8.43	106.39	110.60
1	N	994	A	P-O5'-C5'	8.43	134.38	120.90
1	N	1461	G	O4'-C1'-N9	8.43	114.94	108.20
1	N	1433	A	O4'-C1'-N9	8.43	114.94	108.20
1	N	289	G	C5-C6-O6	-8.42	123.55	128.60
1	N	315	A	C8-N9-C4	-8.42	102.43	105.80
1	N	1139	G	C4-C5-C6	-8.42	113.75	118.80
1	N	1440	U	C2-N3-C4	8.42	132.05	127.00
1	N	516	U	O4'-C1'-N1	8.42	114.94	108.20
1	N	101	A	N1-C6-N6	8.42	123.65	118.60
1	N	637	C	C4-C5-C6	8.42	121.61	117.40
1	N	775	G	C4-C5-C6	8.42	123.85	118.80
1	N	572	A	C4-C5-C6	8.42	121.21	117.00
1	N	1108	G	C1'-O4'-C4'	-8.42	103.17	109.90
1	N	1342	C	C4'-C3'-C2'	-8.42	94.18	102.60
1	N	17	U	C5-C4-O4	-8.41	120.85	125.90
1	N	518	C	O5'-P-OP2	-8.41	98.13	105.70
1	N	1132	C	C6-N1-C2	-8.41	116.93	120.30
1	N	1530	G	C8-N9-C1'	-8.41	116.06	127.00
1	N	1252	A	C5-C6-N1	-8.41	113.49	117.70
1	N	906	A	O4'-C1'-N9	8.41	114.93	108.20
1	N	926	G	P-O3'-C3'	8.41	129.79	119.70
1	N	680	C	C5-C4-N4	-8.40	114.32	120.20
1	N	741	G	N9-C4-C5	-8.40	102.04	105.40
1	N	1398	A	C5-C6-N1	-8.40	113.50	117.70
1	N	242	G	O4'-C1'-N9	8.40	114.92	108.20
1	N	541	G	N1-C6-O6	8.40	124.94	119.90
1	N	1252	A	C6-C5-N7	-8.40	126.42	132.30
1	N	361	G	C8-N9-C4	-8.40	103.04	106.40
1	N	509	A	C2-N3-C4	-8.40	106.40	110.60
1	N	1032	G	N3-C4-N9	8.40	131.04	126.00
1	N	42	G	N7-C8-N9	8.39	117.30	113.10
1	N	176	C	O4'-C1'-N1	8.39	114.92	108.20
1	N	106	C	C5-C6-N1	8.39	125.20	121.00
1	N	388	G	C6-C5-N7	-8.39	125.36	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	948	C	N3-C4-N4	8.39	123.88	118.00
1	N	995	C	N3-C2-O2	8.39	127.78	121.90
1	N	1151	A	C5-C6-N6	-8.39	116.99	123.70
1	N	318	G	C5-C6-O6	-8.39	123.57	128.60
1	N	473	U	C4-C5-C6	8.39	124.73	119.70
1	N	502	A	C2-N3-C4	-8.39	106.41	110.60
1	N	1054	C	C2-N1-C1'	8.39	128.03	118.80
1	N	1326	U	C5-C6-N1	8.39	126.89	122.70
1	N	1442	G	C6-N1-C2	-8.39	120.07	125.10
1	N	158	G	C6-C5-N7	-8.39	125.37	130.40
1	N	914	A	N7-C8-N9	8.39	117.99	113.80
1	N	1025	U	O4'-C1'-N1	8.39	114.91	108.20
1	N	53	A	C5-N7-C8	8.38	108.09	103.90
1	N	179	A	C5-C6-N1	-8.38	113.51	117.70
1	N	392	C	N3-C2-O2	8.38	127.77	121.90
1	N	817	C	C6-N1-C2	-8.38	116.95	120.30
1	N	820	U	N1-C2-N3	-8.38	109.87	114.90
1	N	1225	A	C4-C5-C6	8.38	121.19	117.00
1	N	392	C	C5-C6-N1	8.38	125.19	121.00
1	N	510	A	C5-C6-N6	-8.38	117.00	123.70
1	N	539	A	C6-C5-N7	-8.38	126.44	132.30
1	N	1530	G	C4-C5-N7	8.37	114.15	110.80
1	N	1169	A	N1-C6-N6	8.37	123.62	118.60
1	N	1318	A	C5-N7-C8	8.37	108.09	103.90
1	N	1394	A	C5-C6-N1	-8.37	113.51	117.70
1	N	26	A	C5-N7-C8	8.37	108.08	103.90
1	N	45	G	C6-C5-N7	-8.37	125.38	130.40
1	N	1069	C	C6-N1-C2	-8.37	116.95	120.30
1	N	196	A	N1-C2-N3	8.37	133.48	129.30
1	N	1036	A	C4-C5-N7	-8.37	106.52	110.70
1	N	1330	U	C5-C6-N1	8.37	126.88	122.70
1	N	558	G	C5-C6-N1	-8.36	107.32	111.50
1	N	928	G	N3-C4-C5	-8.36	124.42	128.60
1	N	975	A	C8-N9-C4	-8.37	102.45	105.80
1	N	201	G	C4-C5-C6	8.36	123.82	118.80
1	N	332	G	N3-C4-C5	8.36	132.78	128.60
1	N	609	A	C5-C6-N1	-8.36	113.52	117.70
1	N	1112	C	O4'-C1'-N1	8.36	114.89	108.20
1	N	1131	G	O4'-C1'-N9	8.36	114.89	108.20
1	N	1304	G	N3-C4-C5	-8.36	124.42	128.60
1	N	213	G	C6-C5-N7	-8.36	125.39	130.40
1	N	356	A	C5-C6-N1	-8.36	113.52	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	527	G	N1-C6-O6	8.36	124.91	119.90
1	N	889	A	C5-C6-N1	-8.36	113.52	117.70
1	N	738	C	C5-C6-N1	8.36	125.18	121.00
1	N	1038	C	C5-C4-N4	-8.36	114.35	120.20
1	N	1530	G	N1-C6-O6	8.36	124.91	119.90
1	N	7	A	C5-C6-N6	-8.35	117.02	123.70
1	N	86	G	N3-C2-N2	8.35	125.75	119.90
1	N	679	C	C2-N3-C4	8.35	124.08	119.90
1	N	836	G	N1-C2-N3	-8.35	118.89	123.90
1	N	999	C	O4'-C4'-C3'	-8.35	95.65	104.00
1	N	1309	G	C4-C5-N7	-8.35	107.46	110.80
1	N	510	A	P-O3'-C3'	8.35	129.72	119.70
1	N	724	G	N1-C6-O6	8.35	124.91	119.90
1	N	698	G	N7-C8-N9	8.35	117.28	113.10
1	N	1485	U	C5-C6-N1	8.35	126.87	122.70
1	N	229	U	C5-C4-O4	8.35	130.91	125.90
1	N	559	A	P-O3'-C3'	8.35	129.71	119.70
1	N	512	U	N1-C2-O2	-8.34	116.96	122.80
1	N	966	G	C6-C5-N7	-8.34	125.39	130.40
1	N	1022	A	C4-C5-N7	-8.34	106.53	110.70
1	N	1117	A	N9-C4-C5	8.34	109.14	105.80
1	N	1513	A	C5-C6-N6	-8.34	117.03	123.70
1	N	122	G	C5-C6-N1	-8.34	107.33	111.50
1	N	548	G	C5-C6-N1	-8.34	107.33	111.50
1	N	315	A	N1-C6-N6	8.34	123.60	118.60
1	N	844	G	N1-C6-O6	8.34	124.90	119.90
1	N	731	G	C4-C5-C6	8.34	123.80	118.80
1	N	963	G	N3-C4-C5	-8.34	124.43	128.60
1	N	298	A	O4'-C1'-N9	8.33	114.87	108.20
1	N	658	C	C6-N1-C2	-8.33	116.97	120.30
1	N	1115	U	C5-C6-N1	8.33	126.87	122.70
1	N	161	A	C5-C6-N1	-8.33	113.53	117.70
1	N	199	A	O4'-C1'-N9	8.33	114.86	108.20
1	N	957	U	N1-C2-O2	-8.33	116.97	122.80
1	N	229	U	O4'-C1'-N1	8.32	114.86	108.20
1	N	1311	A	C5-C6-N6	-8.32	117.04	123.70
1	N	435	A	N9-C4-C5	8.32	109.13	105.80
1	N	822	U	P-O5'-C5'	8.32	134.21	120.90
1	N	1333	A	O4'-C1'-N9	8.32	114.86	108.20
1	N	1484	C	O4'-C1'-N1	8.32	114.86	108.20
1	N	531	U	C2-N3-C4	-8.32	122.01	127.00
1	N	1151	A	O4'-C1'-N9	8.32	114.86	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	300	A	O4'-C1'-N9	8.32	114.85	108.20
1	N	171	A	C4-C5-C6	8.32	121.16	117.00
1	N	1269	A	C4-C5-C6	8.32	121.16	117.00
1	N	1426	G	O4'-C1'-N9	8.32	114.85	108.20
1	N	1487	G	O4'-C1'-N9	8.32	114.86	108.20
1	N	68	G	N3-C2-N2	8.31	125.72	119.90
1	N	462	G	C3'-C2'-C1'	-8.31	94.85	101.50
1	N	832	G	C5'-C4'-C3'	-8.31	102.71	116.00
1	N	499	A	C8-N9-C4	8.31	109.12	105.80
1	N	641	U	N1-C2-N3	-8.31	109.92	114.90
1	N	718	A	C5-N7-C8	8.31	108.05	103.90
1	N	1097	C	C6-N1-C2	-8.31	116.98	120.30
1	N	1234	C	C2-N3-C4	8.31	124.05	119.90
1	N	467	U	C2-N3-C4	-8.31	122.02	127.00
1	N	1091	U	C6-N1-C2	-8.30	116.02	121.00
1	N	1278	G	C4'-C3'-C2'	-8.30	94.30	102.60
1	N	75	G	C4-C5-N7	-8.30	107.48	110.80
1	N	301	G	C8-N9-C1'	-8.30	116.21	127.00
1	N	577	G	C1'-O4'-C4'	8.30	116.54	109.90
1	N	773	G	C4-C5-N7	8.30	114.12	110.80
1	N	882	C	N3-C4-N4	8.30	123.81	118.00
1	N	158	G	C4-C5-C6	8.30	123.78	118.80
1	N	608	A	C5-C6-N1	-8.30	113.55	117.70
1	N	671	G	N1-C6-O6	8.30	124.88	119.90
1	N	1100	C	C2-N3-C4	8.30	124.05	119.90
1	N	179	A	C5-C6-N6	-8.30	117.06	123.70
1	N	1091	U	P-O3'-C3'	8.29	129.65	119.70
1	N	1346	A	C5-C6-N6	-8.29	117.07	123.70
1	N	213	G	N7-C8-N9	-8.29	108.95	113.10
1	N	1304	G	C2-N3-C4	8.29	116.05	111.90
1	N	712	A	C6-C5-N7	-8.29	126.50	132.30
1	N	766	A	N9-C4-C5	8.29	109.12	105.80
1	N	701	U	N3-C2-O2	-8.29	116.40	122.20
1	N	39	G	C8-N9-C4	8.29	109.71	106.40
1	N	290	C	C6-N1-C2	8.28	123.61	120.30
1	N	365	U	N3-C2-O2	8.29	128.00	122.20
1	N	449	G	C6-C5-N7	-8.28	125.43	130.40
1	N	643	C	C6-N1-C2	-8.28	116.99	120.30
1	N	592	G	C4'-C3'-C2'	-8.28	94.32	102.60
1	N	89	U	C2-N3-C4	8.28	131.97	127.00
1	N	670	G	C4-N9-C1'	-8.28	115.74	126.50
1	N	1093	A	C5-N7-C8	8.27	108.04	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1184	G	N1-C2-N3	-8.27	118.94	123.90
1	N	1526	G	N1-C6-O6	8.27	124.86	119.90
1	N	140	U	O4'-C1'-N1	8.27	114.81	108.20
1	N	428	G	N3-C4-N9	-8.27	121.04	126.00
1	N	416	G	C5-N7-C8	8.27	108.43	104.30
1	N	1007	U	O4'-C1'-N1	8.27	114.81	108.20
1	N	271	C	O4'-C1'-N1	8.27	114.81	108.20
1	N	351	G	N1-C2-N3	-8.27	118.94	123.90
1	N	434	U	C5-C6-N1	8.27	126.83	122.70
1	N	770	C	O4'-C1'-N1	8.27	114.81	108.20
1	N	45	G	N9-C4-C5	8.26	108.70	105.40
1	N	598	U	O4'-C1'-N1	8.26	114.81	108.20
1	N	896	C	P-O5'-C5'	8.26	134.12	120.90
1	N	1022	A	N3-C4-C5	-8.26	121.02	126.80
1	N	970	C	O4'-C1'-N1	8.26	114.81	108.20
1	N	1323	G	N9-C4-C5	8.26	108.70	105.40
1	N	33	A	C4-C5-C6	8.26	121.13	117.00
1	N	1138	G	O4'-C1'-N9	8.26	114.81	108.20
1	N	1340	A	C6-N1-C2	8.26	123.55	118.60
1	N	321	A	N7-C8-N9	-8.25	109.67	113.80
1	N	1260	G	C6-C5-N7	-8.25	125.45	130.40
1	N	1504	G	C8-N9-C4	8.25	109.70	106.40
1	N	76	G	C4-C5-N7	8.25	114.10	110.80
1	N	359	G	C5-C6-N1	8.25	115.63	111.50
1	N	397	A	C5-C6-N6	-8.25	117.10	123.70
1	N	482	A	C5-N7-C8	8.25	108.02	103.90
1	N	881	G	C5-C6-O6	-8.25	123.65	128.60
1	N	335	C	O4'-C1'-N1	8.25	114.80	108.20
1	N	960	U	C6-N1-C2	-8.25	116.05	121.00
1	N	1196	A	O4'-C1'-N9	8.25	114.80	108.20
1	N	230	G	C8-N9-C4	-8.25	103.10	106.40
1	N	593	U	N3-C2-O2	8.25	127.97	122.20
1	N	854	U	O4'-C1'-N1	8.25	114.80	108.20
1	N	1155	A	O4'-C1'-N9	8.25	114.80	108.20
1	N	1238	A	C6-N1-C2	-8.25	113.65	118.60
1	N	1365	G	N1-C6-O6	8.25	124.85	119.90
1	N	978	A	C5-C6-N1	-8.24	113.58	117.70
1	N	873	A	O4'-C1'-N9	8.24	114.79	108.20
1	N	1146	A	C3'-C2'-C1'	8.24	108.09	101.50
1	N	1369	C	C4-C5-C6	-8.24	113.28	117.40
1	N	1459	G	C5-C6-O6	-8.24	123.66	128.60
1	N	275	G	C4-C5-C6	8.24	123.74	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1110	A	P-O3'-C3'	8.24	129.58	119.70
1	N	1184	G	C5-N7-C8	8.24	108.42	104.30
1	N	1338	G	O4'-C1'-N9	8.24	114.79	108.20
1	N	1398	A	N9-C4-C5	8.24	109.09	105.80
1	N	1413	A	O4'-C1'-N9	8.24	114.79	108.20
1	N	474	G	N7-C8-N9	-8.23	108.98	113.10
1	N	491	G	C3'-C2'-C1'	-8.23	94.91	101.50
1	N	1300	G	C4-C5-N7	8.23	114.09	110.80
1	N	1430	A	C2-N3-C4	8.23	114.72	110.60
1	N	538	G	C5-C6-O6	-8.23	123.66	128.60
1	N	549	C	O4'-C1'-N1	8.23	114.79	108.20
1	N	749	A	N9-C4-C5	-8.23	102.51	105.80
1	N	1056	U	O4'-C1'-N1	8.23	114.78	108.20
1	N	189	A	N1-C6-N6	8.23	123.54	118.60
1	N	793	U	P-O3'-C3'	8.23	129.58	119.70
1	N	1071	C	N3-C2-O2	8.23	127.66	121.90
1	N	11	G	C4-C5-C6	8.23	123.74	118.80
1	N	112	G	N1-C6-O6	8.23	124.84	119.90
1	N	527	G	N3-C4-N9	8.23	130.94	126.00
1	N	1203	C	O4'-C1'-N1	8.23	114.78	108.20
1	N	1379	G	O4'-C1'-N9	8.23	114.78	108.20
1	N	629	A	P-O3'-C3'	-8.22	109.83	119.70
1	N	20	U	P-O3'-C3'	-8.22	109.83	119.70
1	N	774	G	C6-C5-N7	-8.22	125.47	130.40
1	N	429	U	N3-C4-C5	-8.22	109.67	114.60
1	N	1220	G	N1-C6-O6	8.22	124.83	119.90
1	N	167	A	C2-N3-C4	8.22	114.71	110.60
1	N	254	G	P-O5'-C5'	8.21	134.04	120.90
1	N	300	A	C8-N9-C4	-8.21	102.51	105.80
1	N	838	G	N1-C6-O6	8.21	124.83	119.90
1	N	1048	G	C5-C6-O6	-8.21	123.67	128.60
1	N	33	A	C5-C6-N1	-8.21	113.59	117.70
1	N	537	G	N1-C2-N2	8.21	123.59	116.20
1	N	1304	G	C8-N9-C4	-8.21	103.12	106.40
1	N	1340	A	O4'-C1'-N9	8.21	114.77	108.20
1	N	1519	A	C5-C6-N6	-8.21	117.13	123.70
1	N	1046	A	O4'-C1'-N9	8.21	114.77	108.20
1	N	1382	C	O4'-C1'-N1	8.21	114.77	108.20
1	N	1204	A	C5-C6-N6	-8.21	117.13	123.70
1	N	319	G	N1-C6-O6	8.21	124.82	119.90
1	N	556	C	C5-C6-N1	8.21	125.10	121.00
1	N	1220	G	C5-C6-O6	-8.21	123.68	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	650	G	N3-C4-C5	-8.20	124.50	128.60
1	N	797	C	P-O5'-C5'	-8.20	107.78	120.90
1	N	922	G	N1-C6-O6	8.20	124.82	119.90
1	N	1033	G	C4-C5-C6	8.20	123.72	118.80
1	N	118	U	N1-C2-O2	-8.20	117.06	122.80
1	N	643	C	C4-C5-C6	8.20	121.50	117.40
1	N	1525	G	C8-N9-C4	8.20	109.68	106.40
1	N	347	G	P-O5'-C5'	8.20	134.01	120.90
1	N	1334	G	N3-C4-C5	8.20	132.70	128.60
1	N	122	G	C4-C5-C6	8.19	123.72	118.80
1	N	181	A	C4'-C3'-C2'	-8.20	94.41	102.60
1	N	924	C	C2-N3-C4	8.19	124.00	119.90
1	N	1350	A	C5-C6-N6	-8.20	117.14	123.70
1	N	683	G	C8-N9-C4	8.19	109.68	106.40
1	N	574	A	C4-C5-C6	8.19	121.09	117.00
1	N	903	G	C4-C5-C6	8.19	123.72	118.80
1	N	1165	U	O4'-C1'-N1	8.19	114.75	108.20
1	N	708	C	N3-C4-N4	8.19	123.73	118.00
1	N	223	A	C2-N3-C4	-8.19	106.51	110.60
1	N	624	C	N3-C4-C5	-8.19	118.62	121.90
1	N	740	U	P-O3'-C3'	-8.19	109.87	119.70
1	N	917	G	C4-N9-C1'	8.19	137.15	126.50
1	N	858	G	C2-N3-C4	8.19	115.99	111.90
1	N	1362	A	C5-C6-N1	-8.19	113.61	117.70
1	N	1448	C	C5-C6-N1	8.19	125.09	121.00
1	N	144	G	O4'-C4'-C3'	-8.18	95.82	104.00
1	N	306	A	C5-C6-N6	-8.18	117.15	123.70
1	N	228	A	C4-C5-C6	8.18	121.09	117.00
1	N	508	U	P-O3'-C3'	8.18	129.52	119.70
1	N	1295	U	C5-C4-O4	8.18	130.81	125.90
1	N	1360	A	N9-C4-C5	-8.18	102.53	105.80
1	N	1392	G	C8-N9-C4	-8.18	103.13	106.40
1	N	1079	G	N9-C4-C5	-8.18	102.13	105.40
1	N	730	G	P-O3'-C3'	8.18	129.51	119.70
1	N	631	C	P-O5'-C5'	-8.18	107.82	120.90
1	N	755	G	N3-C2-N2	8.18	125.62	119.90
1	N	1316	G	C5-C6-O6	-8.18	123.69	128.60
1	N	1316	G	C6-N1-C2	8.18	130.01	125.10
1	N	634	C	C6-N1-C2	-8.17	117.03	120.30
1	N	840	C	O4'-C1'-N1	8.17	114.74	108.20
1	N	1067	A	C5-C6-N6	-8.17	117.16	123.70
1	N	1292	G	O4'-C1'-N9	8.17	114.74	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	119	A	O4'-C1'-N9	8.17	114.73	108.20
1	N	275	G	O4'-C1'-N9	8.17	114.73	108.20
1	N	620	C	C5-C4-N4	-8.17	114.48	120.20
1	N	729	A	N1-C2-N3	8.17	133.38	129.30
1	N	884	U	N3-C4-C5	-8.17	109.70	114.60
1	N	402	G	C4-C5-N7	8.16	114.06	110.80
1	N	459	A	C8-N9-C4	-8.16	102.53	105.80
1	N	668	G	C5-C6-O6	-8.16	123.70	128.60
1	N	695	A	C4-C5-N7	-8.16	106.62	110.70
1	N	753	A	C5-C6-N6	-8.16	117.17	123.70
1	N	117	G	N1-C2-N3	-8.16	119.00	123.90
1	N	145	G	C5-C6-N1	-8.16	107.42	111.50
1	N	722	G	N1-C2-N3	-8.16	119.00	123.90
1	N	1404	C	N3-C4-C5	-8.16	118.64	121.90
1	N	773	G	N1-C6-O6	8.16	124.80	119.90
1	N	837	U	O4'-C1'-N1	8.16	114.73	108.20
1	N	1357	A	C6-C5-N7	-8.16	126.59	132.30
1	N	30	U	C1'-O4'-C4'	8.15	116.42	109.90
1	N	218	U	N1-C2-N3	-8.15	110.01	114.90
1	N	182	A	N1-C2-N3	8.15	133.38	129.30
1	N	139	A	C6-C5-N7	-8.15	126.59	132.30
1	N	813	U	O4'-C1'-N1	8.15	114.72	108.20
1	N	109	A	C5-C6-N1	-8.15	113.62	117.70
1	N	323	U	N3-C4-O4	8.15	125.11	119.40
1	N	402	G	N9-C4-C5	-8.15	102.14	105.40
1	N	1221	G	O4'-C1'-N9	8.15	114.72	108.20
1	N	1188	A	N1-C6-N6	8.15	123.49	118.60
1	N	659	U	N3-C4-O4	8.15	125.10	119.40
1	N	772	U	P-O5'-C5'	8.15	133.94	120.90
1	N	1226	C	C6-N1-C2	-8.15	117.04	120.30
1	N	1314	C	C6-N1-C2	-8.15	117.04	120.30
1	N	1161	C	C6-N1-C2	-8.14	117.04	120.30
1	N	1430	A	N1-C6-N6	8.14	123.49	118.60
1	N	705	G	N1-C6-O6	8.14	124.78	119.90
1	N	86	G	N1-C6-O6	8.14	124.78	119.90
1	N	203	G	N1-C2-N3	-8.14	119.02	123.90
1	N	1075	U	N3-C4-O4	8.14	125.10	119.40
1	N	952	U	N3-C4-O4	8.14	125.10	119.40
1	N	1086	U	O5'-C5'-C4'	8.14	127.16	111.70
1	N	1160	G	C6-N1-C2	-8.14	120.22	125.10
1	N	1389	C	C2-N3-C4	8.14	123.97	119.90
1	N	397	A	C5-C6-N1	-8.13	113.63	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	2	A	C4-C5-C6	8.13	121.07	117.00
1	N	543	U	O4'-C1'-N1	8.13	114.71	108.20
1	N	527	G	O4'-C1'-N9	8.13	114.70	108.20
1	N	800	G	C6-C5-N7	-8.13	125.52	130.40
1	N	923	A	N9-C4-C5	8.13	109.05	105.80
1	N	257	G	N3-C2-N2	-8.13	114.21	119.90
1	N	529	G	P-O3'-C3'	8.13	129.45	119.70
1	N	899	C	C5-C6-N1	8.13	125.06	121.00
1	N	1130	A	N9-C4-C5	-8.13	102.55	105.80
1	N	1510	C	N3-C4-C5	-8.13	118.65	121.90
1	N	360	G	C5-C6-N1	-8.13	107.44	111.50
1	N	108	G	N9-C4-C5	-8.12	102.15	105.40
1	N	353	A	P-O3'-C3'	8.12	129.45	119.70
1	N	1155	A	C5-C6-N6	-8.12	117.20	123.70
1	N	1198	G	C4-C5-C6	8.12	123.67	118.80
1	N	466	A	C5-C6-N6	-8.12	117.20	123.70
1	N	1263	C	C1'-O4'-C4'	-8.12	103.40	109.90
1	N	1499	A	C4-C5-N7	-8.12	106.64	110.70
1	N	888	G	C5-C6-N1	-8.12	107.44	111.50
1	N	1105	A	C4-C5-C6	8.12	121.06	117.00
1	N	105	G	N1-C6-O6	8.12	124.77	119.90
1	N	311	C	O4'-C1'-N1	8.12	114.69	108.20
1	N	752	G	P-O3'-C3'	8.12	129.44	119.70
1	N	973	G	P-O3'-C3'	8.12	129.44	119.70
1	N	99	C	N3-C4-C5	-8.11	118.65	121.90
1	N	1263	C	O4'-C1'-N1	8.11	114.69	108.20
1	N	887	G	C5-C6-O6	8.11	133.47	128.60
1	N	1111	A	C4-C5-C6	8.11	121.06	117.00
1	N	1428	A	C5-C6-N1	-8.11	113.64	117.70
1	N	163	C	N3-C4-N4	8.11	123.68	118.00
1	N	1334	G	C4-C5-N7	8.11	114.04	110.80
1	N	1369	C	C5-C6-N1	8.11	125.05	121.00
1	N	1487	G	N1-C2-N3	-8.11	119.03	123.90
1	N	371	A	O4'-C1'-N9	8.11	114.69	108.20
1	N	493	A	C3'-C2'-C1'	-8.11	95.01	101.50
1	N	730	G	C4-C5-C6	8.11	123.66	118.80
1	N	723	U	C6-N1-C1'	-8.11	109.85	121.20
1	N	1387	G	N3-C2-N2	8.11	125.57	119.90
1	N	558	G	N1-C6-O6	8.10	124.76	119.90
1	N	1215	G	C5-C6-O6	-8.10	123.74	128.60
1	N	1260	G	N3-C2-N2	8.10	125.57	119.90
1	N	319	G	C6-C5-N7	-8.10	125.54	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	339	C	P-O5'-C5'	8.10	133.86	120.90
1	N	883	C	O4'-C1'-N1	8.10	114.68	108.20
1	N	1376	U	O4'-C1'-N1	8.10	114.68	108.20
1	N	556	C	N3-C4-N4	8.10	123.67	118.00
1	N	641	U	C4-C5-C6	-8.10	114.84	119.70
1	N	730	G	N3-C4-C5	-8.10	124.55	128.60
1	N	1085	U	N3-C4-C5	-8.10	109.74	114.60
1	N	1407	C	N3-C4-C5	-8.10	118.66	121.90
1	N	302	G	N1-C6-O6	8.09	124.76	119.90
1	N	585	G	C5-C6-N1	-8.09	107.45	111.50
1	N	1518	A	C5-C6-N6	-8.09	117.22	123.70
1	N	850	U	O4'-C1'-N1	8.09	114.67	108.20
1	N	579	A	C4-C5-C6	8.09	121.04	117.00
1	N	784	A	C5-C6-N1	-8.09	113.66	117.70
1	N	879	C	C2-N3-C4	8.09	123.94	119.90
1	N	1157	A	O4'-C1'-N9	8.08	114.67	108.20
1	N	1212	U	C5-C6-N1	8.08	126.74	122.70
1	N	1168	U	N3-C4-O4	8.08	125.06	119.40
1	N	1271	A	N9-C4-C5	8.08	109.03	105.80
1	N	350	G	C2-N3-C4	-8.08	107.86	111.90
1	N	1454	G	C2-N3-C4	-8.08	107.86	111.90
1	N	1123	U	N3-C4-C5	-8.08	109.75	114.60
1	N	44	A	O5'-P-OP2	-8.07	98.43	105.70
1	N	622	A	C2-N3-C4	8.07	114.64	110.60
1	N	935	A	O4'-C1'-N9	8.07	114.66	108.20
1	N	497	G	C6-C5-N7	-8.07	125.56	130.40
1	N	500	G	C5-C6-N1	-8.07	107.46	111.50
1	N	547	A	O4'-C1'-N9	8.07	114.66	108.20
1	N	1106	G	C4-C5-N7	8.07	114.03	110.80
1	N	590	U	O4'-C4'-C3'	-8.07	95.93	104.00
1	N	781	A	O4'-C1'-N9	8.07	114.66	108.20
1	N	844	G	N1-C2-N3	-8.07	119.06	123.90
1	N	593	U	N1-C2-O2	-8.07	117.15	122.80
1	N	829	G	N1-C2-N3	-8.07	119.06	123.90
1	N	1126	U	C2-N1-C1'	8.07	127.38	117.70
1	N	1386	G	N1-C2-N3	-8.07	119.06	123.90
1	N	1461	G	C5-C6-O6	-8.07	123.76	128.60
1	N	1437	A	N9-C4-C5	-8.06	102.57	105.80
1	N	1452	C	N3-C4-N4	8.06	123.64	118.00
1	N	1530	G	C6-C5-N7	-8.06	125.56	130.40
1	N	116	A	O4'-C1'-N9	8.06	114.65	108.20
1	N	816	A	C4-C5-C6	8.06	121.03	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	513	C	P-O5'-C5'	8.06	133.79	120.90
1	N	540	G	N9-C4-C5	8.06	108.62	105.40
1	N	634	C	P-O5'-C5'	8.06	133.79	120.90
1	N	729	A	C2-N3-C4	-8.06	106.57	110.60
1	N	525	C	N3-C4-N4	8.05	123.64	118.00
1	N	1519	A	N3-C4-C5	-8.06	121.16	126.80
1	N	45	G	C4-C5-C6	8.05	123.63	118.80
1	N	1205	U	O4'-C1'-N1	8.05	114.64	108.20
1	N	1325	C	N3-C4-C5	-8.05	118.68	121.90
1	N	675	A	C5-C6-N1	-8.05	113.67	117.70
1	N	751	U	C5-C4-O4	-8.05	121.07	125.90
1	N	960	U	N3-C4-O4	8.05	125.04	119.40
1	N	616	G	O4'-C1'-N9	8.05	114.64	108.20
1	N	204	G	N3-C2-N2	8.05	125.53	119.90
1	N	563	A	C5-C6-N6	-8.05	117.26	123.70
1	N	992	U	C3'-C2'-C1'	-8.05	95.06	101.50
1	N	347	G	C5-C6-N1	-8.04	107.48	111.50
1	N	569	C	O4'-C1'-N1	8.04	114.64	108.20
1	N	775	G	N7-C8-N9	8.05	117.12	113.10
1	N	1393	U	C5-C4-O4	-8.05	121.07	125.90
1	N	292	G	C5-N7-C8	8.04	108.32	104.30
1	N	933	G	O4'-C1'-N9	8.04	114.63	108.20
1	N	1348	U	C4-C5-C6	8.04	124.53	119.70
1	N	1430	A	C8-N9-C4	-8.04	102.58	105.80
1	N	927	G	C8-N9-C4	8.04	109.62	106.40
1	N	360	G	N3-C4-C5	-8.04	124.58	128.60
1	N	393	A	C5-C6-N1	-8.04	113.68	117.70
1	N	427	U	N1-C2-O2	-8.04	117.17	122.80
1	N	601	G	O4'-C1'-N9	8.04	114.63	108.20
1	N	1014	A	C8-N9-C4	-8.04	102.58	105.80
1	N	1035	A	O4'-C1'-N9	8.04	114.63	108.20
1	N	1181	G	C5'-C4'-C3'	-8.04	103.14	116.00
1	N	1191	A	C5-C6-N6	-8.04	117.27	123.70
1	N	640	A	C4-C5-C6	8.04	121.02	117.00
1	N	669	G	O4'-C1'-N9	8.04	114.63	108.20
1	N	1032	G	O4'-C1'-N9	8.03	114.63	108.20
1	N	1048	G	N7-C8-N9	-8.04	109.08	113.10
1	N	1089	G	C5-C6-O6	-8.04	123.78	128.60
1	N	1440	U	O4'-C1'-N1	8.04	114.63	108.20
1	N	837	U	O4'-C4'-C3'	-8.03	95.97	104.00
1	N	1240	U	N1-C2-N3	-8.03	110.08	114.90
1	N	159	G	C5-C6-O6	-8.03	123.78	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	709	U	N1-C2-N3	8.03	119.72	114.90
1	N	534	U	O4'-C1'-N1	8.03	114.62	108.20
1	N	1144	G	C5-C6-N1	-8.03	107.49	111.50
1	N	1300	G	N9-C4-C5	-8.03	102.19	105.40
1	N	867	G	C6-C5-N7	-8.03	125.58	130.40
1	N	1108	G	C6-C5-N7	-8.03	125.58	130.40
1	N	1138	G	C6-N1-C2	8.03	129.91	125.10
1	N	1524	C	O4'-C1'-N1	8.03	114.62	108.20
1	N	84	U	O4'-C1'-N1	8.02	114.62	108.20
1	N	109	A	C8-N9-C4	-8.02	102.59	105.80
1	N	669	G	N9-C4-C5	-8.02	102.19	105.40
1	N	995	C	N1-C2-O2	-8.02	114.09	118.90
1	N	1119	C	N3-C4-N4	8.02	123.62	118.00
1	N	852	G	C5-C6-O6	-8.02	123.79	128.60
1	N	661	G	C2-N3-C4	8.02	115.91	111.90
1	N	1197	A	C5-C6-N1	-8.02	113.69	117.70
1	N	1379	G	N1-C2-N2	8.02	123.42	116.20
1	N	1060	U	N3-C4-O4	8.02	125.01	119.40
1	N	1211	U	C5-C4-O4	-8.02	121.09	125.90
1	N	70	U	O4'-C1'-N1	8.02	114.61	108.20
1	N	200	G	N7-C8-N9	-8.02	109.09	113.10
1	N	891	U	N3-C4-C5	8.02	119.41	114.60
1	N	1175	G	C5-C6-O6	-8.02	123.79	128.60
1	N	1196	A	C8-N9-C4	-8.02	102.59	105.80
1	N	6	G	P-O5'-C5'	8.01	133.72	120.90
1	N	608	A	C4'-C3'-C2'	-8.01	94.59	102.60
1	N	565	U	C4-C5-C6	-8.01	114.89	119.70
1	N	975	A	O4'-C1'-N9	8.01	114.61	108.20
1	N	1233	G	C5-C6-O6	-8.01	123.79	128.60
1	N	1388	C	N1-C2-N3	8.01	124.81	119.20
1	N	1356	G	C5-C6-O6	-8.01	123.79	128.60
1	N	804	U	C2-N1-C1'	-8.01	108.09	117.70
1	N	1278	G	C4-N9-C1'	8.01	136.91	126.50
1	N	554	A	C5-N7-C8	8.01	107.90	103.90
1	N	1373	G	N7-C8-N9	-8.01	109.10	113.10
1	N	312	C	N3-C4-C5	-8.01	118.70	121.90
1	N	1307	U	C4-C5-C6	8.01	124.50	119.70
1	N	129	A	C8-N9-C4	-8.00	102.60	105.80
1	N	320	A	N9-C4-C5	-8.00	102.60	105.80
1	N	530	G	P-O3'-C3'	8.00	129.30	119.70
1	N	1345	U	N3-C4-O4	8.00	125.00	119.40
1	N	611	C	C6-N1-C2	-8.00	117.10	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1299	A	N9-C4-C5	-8.00	102.60	105.80
1	N	273	U	O3'-P-O5'	-8.00	88.80	104.00
1	N	1020	G	C5-N7-C8	8.00	108.30	104.30
1	N	1065	U	N3-C4-C5	-8.00	109.80	114.60
1	N	396	C	C4-C5-C6	8.00	121.40	117.40
1	N	1061	G	C4-C5-N7	8.00	114.00	110.80
1	N	1324	A	C5-C6-N1	-8.00	113.70	117.70
1	N	123	U	N3-C2-O2	8.00	127.80	122.20
1	N	558	G	C4-C5-C6	8.00	123.60	118.80
1	N	1127	G	P-O5'-C5'	8.00	133.69	120.90
1	N	1353	G	C5-N7-C8	8.00	108.30	104.30
1	N	879	C	N3-C4-C5	-7.99	118.70	121.90
1	N	942	G	C2-N3-C4	7.99	115.90	111.90
1	N	967	C	O4'-C1'-N1	7.99	114.59	108.20
1	N	1350	A	N7-C8-N9	-7.99	109.80	113.80
1	N	575	G	C5-C6-N1	-7.99	107.50	111.50
1	N	626	G	C5-C6-O6	-7.99	123.81	128.60
1	N	721	G	C1'-O4'-C4'	-7.99	103.51	109.90
1	N	887	G	N1-C6-O6	-7.99	115.11	119.90
1	N	126	G	C8-N9-C4	7.99	109.60	106.40
1	N	328	C	C5-C4-N4	-7.99	114.61	120.20
1	N	496	A	C5-N7-C8	7.99	107.89	103.90
1	N	622	A	N3-C4-C5	-7.99	121.21	126.80
1	N	13	U	N3-C4-O4	7.99	124.99	119.40
1	N	187	G	C5-C6-O6	-7.99	123.81	128.60
1	N	315	A	C5-C6-N6	-7.99	117.31	123.70
1	N	322	C	C5-C4-N4	-7.99	114.61	120.20
1	N	383	A	C5-N7-C8	-7.98	99.91	103.90
1	N	1532	U	N3-C2-O2	-7.98	116.61	122.20
1	N	108	G	C8-N9-C1'	-7.98	116.62	127.00
1	N	638	U	N3-C2-O2	7.98	127.79	122.20
1	N	1251	A	N1-C2-N3	7.98	133.29	129.30
1	N	246	A	P-O3'-C3'	7.98	129.28	119.70
1	N	744	C	C2-N3-C4	-7.98	115.91	119.90
1	N	288	A	O4'-C1'-N9	7.98	114.58	108.20
1	N	262	A	N3-C4-N9	7.97	133.78	127.40
1	N	273	U	C5'-C4'-C3'	-7.97	103.25	116.00
1	N	1073	U	C5-C4-O4	7.97	130.68	125.90
1	N	910	C	C5-C4-N4	-7.97	114.62	120.20
1	N	1174	G	N1-C2-N3	-7.97	119.12	123.90
1	N	1280	A	C5-C6-N6	-7.97	117.33	123.70
1	N	380	G	C8-N9-C1'	7.96	137.35	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	230	G	N1-C2-N3	-7.96	119.12	123.90
1	N	656	G	C5-C6-O6	-7.96	123.82	128.60
1	N	1142	G	O4'-C1'-N9	7.96	114.57	108.20
1	N	675	A	C5-N7-C8	7.96	107.88	103.90
1	N	368	U	C1'-O4'-C4'	-7.96	103.53	109.90
1	N	1159	U	N3-C4-O4	7.96	124.97	119.40
1	N	346	G	C8-N9-C4	7.95	109.58	106.40
1	N	1022	A	C2-N3-C4	7.95	114.58	110.60
1	N	1353	G	C4-C5-N7	-7.95	107.62	110.80
1	N	1328	C	C5-C6-N1	7.95	124.98	121.00
1	N	1451	U	O4'-C1'-N1	7.95	114.56	108.20
1	N	141	G	N3-C2-N2	7.95	125.46	119.90
1	N	1171	A	C5-C6-N1	-7.95	113.73	117.70
1	N	530	G	C6-C5-N7	-7.95	125.63	130.40
1	N	55	A	C6-N1-C2	-7.95	113.83	118.60
1	N	177	G	C6-N1-C2	7.95	129.87	125.10
1	N	795	C	O4'-C1'-N1	7.95	114.56	108.20
1	N	38	G	C4-C5-N7	-7.94	107.62	110.80
1	N	226	G	C2-N3-C4	7.94	115.87	111.90
1	N	541	G	C5-N7-C8	-7.94	100.33	104.30
1	N	787	A	P-O5'-C5'	7.94	133.61	120.90
1	N	1045	C	O4'-C1'-N1	7.94	114.55	108.20
1	N	1329	A	N1-C2-N3	-7.94	125.33	129.30
1	N	983	A	C6-C5-N7	-7.94	126.74	132.30
1	N	1020	G	C8-N9-C4	7.94	109.58	106.40
1	N	355	C	O4'-C1'-N1	7.94	114.55	108.20
1	N	1084	G	N3-C2-N2	7.94	125.46	119.90
1	N	276	G	P-O3'-C3'	-7.94	110.17	119.70
1	N	1182	G	C5-C6-O6	-7.94	123.84	128.60
1	N	223	A	N9-C1'-C2'	-7.93	103.27	112.00
1	N	249	U	C6-N1-C2	-7.93	116.24	121.00
1	N	602	A	C5-C6-N6	-7.93	117.35	123.70
1	N	1073	U	C4-C5-C6	7.93	124.46	119.70
1	N	977	A	C2-N3-C4	-7.93	106.63	110.60
1	N	493	A	N3-C4-N9	7.93	133.75	127.40
1	N	405	U	P-O5'-C5'	7.93	133.59	120.90
1	N	536	C	O4'-C1'-N1	7.93	114.54	108.20
1	N	894	G	C4-C5-N7	7.93	113.97	110.80
1	N	129	A	N1-C6-N6	7.93	123.36	118.60
1	N	130	A	C2-N3-C4	-7.93	106.64	110.60
1	N	1353	G	N1-C6-O6	7.93	124.66	119.90
1	N	1421	G	N1-C2-N3	-7.93	119.14	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	74	A	C5-N7-C8	7.92	107.86	103.90
1	N	293	G	N3-C2-N2	7.92	125.45	119.90
1	N	936	C	O4'-C1'-N1	7.92	114.54	108.20
1	N	725	G	C5-C6-N1	-7.92	107.54	111.50
1	N	1142	G	N3-C4-C5	-7.92	124.64	128.60
1	N	1303	C	O4'-C1'-N1	7.92	114.54	108.20
1	N	219	U	N1-C2-O2	-7.92	117.26	122.80
1	N	301	G	C4-N9-C1'	7.92	136.79	126.50
1	N	177	G	O4'-C1'-N9	7.92	114.53	108.20
1	N	424	G	O4'-C1'-N9	7.92	114.53	108.20
1	N	762	U	C5-C4-O4	-7.92	121.15	125.90
1	N	1394	A	N9-C4-C5	7.92	108.97	105.80
1	N	208	U	C5-C6-N1	-7.92	118.74	122.70
1	N	444	G	C6-C5-N7	-7.91	125.65	130.40
1	N	463	U	O4'-C1'-N1	7.91	114.53	108.20
1	N	958	A	C5-C6-N1	-7.91	113.74	117.70
1	N	1110	A	N3-C4-C5	-7.91	121.26	126.80
1	N	1405	G	C8-N9-C4	7.91	109.56	106.40
1	N	306	A	C4-C5-C6	7.91	120.95	117.00
1	N	858	G	C4-C5-N7	-7.91	107.64	110.80
1	N	986	U	N3-C2-O2	7.91	127.73	122.20
1	N	986	U	O4'-C1'-N1	7.91	114.53	108.20
1	N	1184	G	P-O3'-C3'	-7.91	110.21	119.70
1	N	1367	C	N3-C4-N4	7.91	123.54	118.00
1	N	831	A	C5-C6-N6	-7.91	117.38	123.70
1	N	1361	G	N3-C4-N9	-7.91	121.26	126.00
1	N	321	A	C5-N7-C8	7.91	107.85	103.90
1	N	544	G	C5-C6-O6	-7.91	123.86	128.60
1	N	886	G	C5-N7-C8	7.91	108.25	104.30
1	N	1213	A	P-O3'-C3'	-7.91	110.21	119.70
1	N	77	A	P-O3'-C3'	7.90	129.18	119.70
1	N	773	G	O4'-C1'-N9	7.90	114.52	108.20
1	N	1270	G	N3-C4-C5	7.90	132.55	128.60
1	N	155	A	C5-C6-N1	-7.90	113.75	117.70
1	N	170	U	O4'-C1'-N1	7.90	114.52	108.20
1	N	429	U	C4-C5-C6	7.90	124.44	119.70
1	N	493	A	C6-C5-N7	-7.90	126.77	132.30
1	N	629	A	C4'-C3'-C2'	-7.90	94.70	102.60
1	N	703	G	C2-N3-C4	7.90	115.85	111.90
1	N	946	A	C3'-C2'-C1'	7.90	107.82	101.50
1	N	199	A	O4'-C4'-C3'	-7.90	96.10	104.00
1	N	145	G	C6-C5-N7	-7.89	125.66	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1296	C	N3-C4-N4	7.89	123.53	118.00
1	N	1418	A	P-O5'-C5'	7.89	133.53	120.90
1	N	605	U	C5-C4-O4	-7.89	121.17	125.90
1	N	1457	G	C5-C6-O6	-7.89	123.86	128.60
1	N	40	C	C4-C5-C6	7.89	121.34	117.40
1	N	1283	U	C5-C6-N1	7.89	126.65	122.70
1	N	184	G	C5-C6-O6	-7.89	123.87	128.60
1	N	250	A	C6-C5-N7	-7.89	126.78	132.30
1	N	1172	C	C6-N1-C2	7.89	123.45	120.30
1	N	1325	C	N1-C2-N3	-7.89	113.68	119.20
1	N	352	C	N3-C2-O2	-7.89	116.38	121.90
1	N	444	G	N3-C2-N2	7.89	125.42	119.90
1	N	447	G	N1-C2-N3	-7.89	119.17	123.90
1	N	1061	G	N3-C4-C5	7.89	132.54	128.60
1	N	1340	A	C4'-C3'-C2'	-7.89	94.71	102.60
1	N	1356	G	N1-C6-O6	7.89	124.63	119.90
1	N	500	G	C6-C5-N7	-7.88	125.67	130.40
1	N	924	C	O4'-C1'-C2'	-7.88	97.92	105.80
1	N	715	A	C4-C5-N7	-7.88	106.76	110.70
1	N	1306	A	C6-N1-C2	7.88	123.33	118.60
1	N	1331	G	C5'-C4'-C3'	-7.88	103.39	116.00
1	N	354	G	C5-C6-O6	-7.88	123.87	128.60
1	N	499	A	C5-C6-N1	-7.88	113.76	117.70
1	N	753	A	N1-C2-N3	-7.88	125.36	129.30
1	N	357	G	C8-N9-C4	-7.88	103.25	106.40
1	N	586	C	C5-C6-N1	7.88	124.94	121.00
1	N	1075	U	C5-C6-N1	7.88	126.64	122.70
1	N	120	A	O4'-C1'-C2'	-7.87	97.93	105.80
1	N	1020	G	C5-C6-N1	-7.87	107.56	111.50
1	N	1405	G	O4'-C1'-N9	7.87	114.50	108.20
1	N	494	G	N3-C2-N2	7.87	125.41	119.90
1	N	607	A	C8-N9-C4	-7.87	102.65	105.80
1	N	756	C	C5-C4-N4	-7.87	114.69	120.20
1	N	1186	G	N9-C4-C5	7.87	108.55	105.40
1	N	120	A	N3-C4-C5	-7.87	121.29	126.80
1	N	1384	C	O4'-C1'-N1	7.87	114.49	108.20
1	N	535	A	P-O5'-C5'	-7.87	108.32	120.90
1	N	597	G	N1-C2-N2	-7.87	109.12	116.20
1	N	1088	G	O4'-C1'-N9	7.86	114.49	108.20
1	N	1480	A	C8-N9-C4	-7.86	102.65	105.80
1	N	436	C	O4'-C1'-N1	7.86	114.49	108.20
1	N	114	U	N1-C2-N3	-7.86	110.18	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	238	A	N1-C2-N3	7.86	133.23	129.30
1	N	790	A	C6-C5-N7	-7.86	126.80	132.30
1	N	968	A	N1-C6-N6	7.86	123.32	118.60
1	N	21	G	N1-C2-N3	-7.86	119.19	123.90
1	N	1226	C	C5-C4-N4	7.86	125.70	120.20
1	N	492	C	C2-N1-C1'	7.86	127.44	118.80
1	N	977	A	N1-C2-N3	7.86	133.23	129.30
1	N	1013	G	O4'-C1'-N9	7.86	114.49	108.20
1	N	1470	U	C6-N1-C2	7.86	125.71	121.00
1	N	933	G	C4-C5-C6	-7.86	114.09	118.80
1	N	1393	U	N3-C4-O4	7.85	124.90	119.40
1	N	66	A	C6-C5-N7	-7.85	126.80	132.30
1	N	1274	A	C4-C5-N7	-7.85	106.77	110.70
1	N	159	G	N3-C4-C5	7.85	132.53	128.60
1	N	1085	U	C4-C5-C6	7.85	124.41	119.70
1	N	89	U	N3-C2-O2	7.85	127.69	122.20
1	N	774	G	O4'-C1'-N9	7.85	114.48	108.20
1	N	1059	C	N3-C4-N4	7.85	123.50	118.00
1	N	1273	C	N3-C4-N4	7.85	123.50	118.00
1	N	299	G	O4'-C1'-N9	7.85	114.48	108.20
1	N	1393	U	P-O3'-C3'	7.85	129.12	119.70
1	N	196	A	C4-C5-C6	7.84	120.92	117.00
1	N	428	G	C8-N9-C4	-7.84	103.26	106.40
1	N	1262	C	P-O3'-C3'	-7.84	110.29	119.70
1	N	1349	A	C3'-C2'-C1'	-7.84	95.22	101.50
1	N	77	A	C4-C5-N7	-7.84	106.78	110.70
1	N	152	A	C5-C6-N1	-7.84	113.78	117.70
1	N	807	A	C4-C5-C6	7.84	120.92	117.00
1	N	32	A	C5-C6-N1	-7.84	113.78	117.70
1	N	95	C	P-O5'-C5'	-7.84	108.36	120.90
1	N	379	C	C5-C4-N4	-7.84	114.71	120.20
1	N	1233	G	N1-C6-O6	7.84	124.61	119.90
1	N	841	C	N1-C2-O2	7.84	123.60	118.90
1	N	1054	C	C1'-O4'-C4'	7.84	116.17	109.90
1	N	1171	A	C5'-C4'-O4'	7.84	118.50	109.10
1	N	1272	G	N1-C6-O6	7.84	124.60	119.90
1	N	441	A	C6-C5-N7	-7.83	126.82	132.30
1	N	151	A	N3-C4-C5	-7.83	121.32	126.80
1	N	501	C	C5-C4-N4	-7.83	114.72	120.20
1	N	1047	G	C2-N3-C4	-7.83	107.98	111.90
1	N	1268	G	C8-N9-C4	-7.83	103.27	106.40
1	N	735	C	P-O3'-C3'	7.83	129.10	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	299	G	C4-C5-N7	7.83	113.93	110.80
1	N	1256	A	N1-C2-N3	7.83	133.22	129.30
1	N	11	G	C3'-C2'-C1'	-7.83	95.24	101.50
1	N	116	A	N3-C4-C5	-7.83	121.32	126.80
1	N	295	C	O4'-C1'-N1	7.83	114.46	108.20
1	N	351	G	N9-C4-C5	-7.83	102.27	105.40
1	N	157	U	C5-C4-O4	-7.83	121.20	125.90
1	N	464	U	P-O5'-C5'	7.83	133.42	120.90
1	N	991	U	O4'-C1'-N1	7.83	114.46	108.20
1	N	1016	A	C4-C5-N7	-7.83	106.79	110.70
1	N	1075	U	C6-N1-C2	-7.83	116.30	121.00
1	N	1414	U	C5-C6-N1	7.82	126.61	122.70
1	N	1181	G	O4'-C1'-N9	7.82	114.46	108.20
1	N	107	G	N1-C6-O6	7.82	124.59	119.90
1	N	443	C	C4-C5-C6	-7.82	113.49	117.40
1	N	851	G	N3-C2-N2	7.82	125.38	119.90
1	N	1246	A	N9-C4-C5	7.82	108.93	105.80
1	N	710	G	C4-C5-N7	-7.82	107.67	110.80
1	N	1267	C	O4'-C1'-N1	7.82	114.45	108.20
1	N	1362	A	C4'-C3'-C2'	-7.82	94.78	102.60
1	N	496	A	N1-C2-N3	7.82	133.21	129.30
1	N	627	G	N9-C1'-C2'	-7.82	103.40	112.00
1	N	1021	A	C4-C5-C6	7.82	120.91	117.00
1	N	1075	U	O4'-C1'-N1	7.82	114.45	108.20
1	N	999	C	O4'-C1'-N1	7.81	114.45	108.20
1	N	184	G	N3-C2-N2	7.81	125.37	119.90
1	N	289	G	N1-C6-O6	7.81	124.59	119.90
1	N	1132	C	N3-C2-O2	-7.81	116.43	121.90
1	N	1150	A	C4-C5-C6	7.81	120.91	117.00
1	N	1394	A	C8-N9-C4	-7.81	102.67	105.80
1	N	321	A	C6-C5-N7	-7.81	126.83	132.30
1	N	714	G	O4'-C1'-N9	7.81	114.45	108.20
1	N	1474	U	O4'-C1'-N1	7.81	114.45	108.20
1	N	360	G	C4-C5-C6	7.81	123.48	118.80
1	N	411	A	C6-C5-N7	-7.81	126.83	132.30
1	N	854	U	P-O3'-C3'	-7.81	110.33	119.70
1	N	1012	A	C5-C6-N1	-7.81	113.80	117.70
1	N	1048	G	C2-N3-C4	-7.81	108.00	111.90
1	N	389	A	C5-N7-C8	7.81	107.80	103.90
1	N	1170	A	C4-C5-C6	7.81	120.90	117.00
1	N	93	U	P-O3'-C3'	-7.80	110.33	119.70
1	N	396	C	C5-C6-N1	-7.80	117.10	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	984	C	C6-N1-C2	-7.80	117.18	120.30
1	N	997	U	N1-C2-O2	-7.80	117.34	122.80
1	N	1301	U	O4'-C1'-N1	7.80	114.44	108.20
1	N	1477	U	O4'-C1'-N1	7.80	114.44	108.20
1	N	1529	G	C6-C5-N7	-7.80	125.72	130.40
1	N	113	G	N1-C6-O6	7.80	124.58	119.90
1	N	922	G	N1-C2-N3	-7.80	119.22	123.90
1	N	305	G	N7-C8-N9	7.80	117.00	113.10
1	N	805	C	N3-C4-N4	7.80	123.46	118.00
1	N	1484	C	N3-C4-C5	-7.80	118.78	121.90
1	N	338	A	O4'-C1'-N9	7.80	114.44	108.20
1	N	546	A	C4-C5-C6	7.80	120.90	117.00
1	N	1473	G	C4-C5-N7	7.79	113.92	110.80
1	N	565	U	O4'-C1'-N1	7.79	114.43	108.20
1	N	637	C	C5'-C4'-O4'	7.79	118.45	109.10
1	N	1344	C	N3-C4-N4	7.79	123.46	118.00
1	N	183	C	N3-C4-N4	7.79	123.45	118.00
1	N	398	U	C2-N3-C4	-7.79	122.33	127.00
1	N	545	C	O4'-C1'-N1	7.79	114.43	108.20
1	N	1356	G	O4'-C1'-N9	7.79	114.43	108.20
1	N	947	G	N3-C2-N2	7.79	125.35	119.90
1	N	1534	A	N3-C4-C5	-7.79	121.35	126.80
1	N	754	C	C5-C6-N1	7.79	124.89	121.00
1	N	1498	U	C5-C6-N1	-7.79	118.81	122.70
1	N	283	U	C4-C5-C6	-7.79	115.03	119.70
1	N	706	A	C5-C6-N6	-7.79	117.47	123.70
1	N	540	G	O4'-C1'-N9	7.78	114.43	108.20
1	N	34	C	C5-C6-N1	7.78	124.89	121.00
1	N	714	G	C4-C5-N7	7.78	113.91	110.80
1	N	175	C	N3-C2-O2	-7.78	116.45	121.90
1	N	435	A	C5-C6-N1	-7.78	113.81	117.70
1	N	634	C	O4'-C1'-N1	7.78	114.42	108.20
1	N	680	C	C6-N1-C2	-7.78	117.19	120.30
1	N	1495	U	N3-C4-C5	-7.78	109.93	114.60
1	N	16	A	C2-N3-C4	-7.78	106.71	110.60
1	N	377	G	C6-N1-C2	7.78	129.76	125.10
1	N	624	C	O4'-C1'-N1	7.78	114.42	108.20
1	N	663	A	C4-C5-C6	7.78	120.89	117.00
1	N	1131	G	C6-C5-N7	-7.78	125.73	130.40
1	N	1531	A	C5-C6-N1	-7.78	113.81	117.70
1	N	659	U	N1-C2-N3	-7.77	110.24	114.90
1	N	288	A	N7-C8-N9	-7.77	109.91	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	432	A	P-O5'-C5'	7.77	133.34	120.90
1	N	875	U	N3-C4-O4	7.77	124.84	119.40
1	N	1300	G	C5-C6-O6	-7.77	123.94	128.60
1	N	1371	G	C6-C5-N7	-7.77	125.74	130.40
1	N	1424	U	N3-C4-O4	7.77	124.84	119.40
1	N	1441	A	N9-C4-C5	7.77	108.91	105.80
1	N	1411	C	P-O3'-C3'	7.77	129.03	119.70
1	N	138	G	C4'-C3'-C2'	-7.77	94.83	102.60
1	N	222	C	C2-N3-C4	7.77	123.78	119.90
1	N	115	G	N3-C2-N2	7.77	125.34	119.90
1	N	904	U	O4'-C1'-C2'	-7.77	98.03	105.80
1	N	449	G	C1'-O4'-C4'	7.76	116.11	109.90
1	N	497	G	C2-N3-C4	-7.76	108.02	111.90
1	N	570	G	N1-C6-O6	7.76	124.56	119.90
1	N	771	G	O4'-C1'-N9	7.76	114.41	108.20
1	N	831	A	C2-N3-C4	-7.76	106.72	110.60
1	N	126	G	N1-C6-O6	7.76	124.56	119.90
1	N	335	C	C2-N1-C1'	7.76	127.34	118.80
1	N	1368	A	C5'-C4'-O4'	7.76	118.41	109.10
1	N	74	A	C6-N1-C2	7.76	123.25	118.60
1	N	458	U	C2-N3-C4	7.76	131.66	127.00
1	N	469	C	C2-N3-C4	7.76	123.78	119.90
1	N	621	A	N1-C2-N3	7.76	133.18	129.30
1	N	127	G	O4'-C4'-C3'	-7.76	96.24	104.00
1	N	743	A	N9-C4-C5	7.76	108.90	105.80
1	N	1160	G	C1'-O4'-C4'	7.75	116.10	109.90
1	N	1185	G	C8-N9-C4	-7.75	103.30	106.40
1	N	817	C	O4'-C1'-N1	7.75	114.40	108.20
1	N	1020	G	N3-C2-N2	7.75	125.32	119.90
1	N	1473	G	N9-C4-C5	-7.75	102.30	105.40
1	N	726	C	P-O3'-C3'	-7.75	110.40	119.70
1	N	1046	A	C5-C6-N6	-7.75	117.50	123.70
1	N	478	A	P-O3'-C3'	7.74	128.99	119.70
1	N	852	G	N1-C2-N3	-7.74	119.25	123.90
1	N	989	U	O4'-C1'-N1	7.74	114.39	108.20
1	N	1180	A	C5-C6-N1	-7.74	113.83	117.70
1	N	42	G	C5-N7-C8	-7.74	100.43	104.30
1	N	1157	A	C6-C5-N7	-7.74	126.88	132.30
1	N	1120	C	C4'-C3'-C2'	-7.74	94.86	102.60
1	N	71	A	C8-N9-C4	-7.74	102.70	105.80
1	N	112	G	N3-C2-N2	7.74	125.32	119.90
1	N	605	U	N1-C2-N3	-7.74	110.26	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1257	A	C6-N1-C2	7.74	123.24	118.60
1	N	1267	C	N3-C4-N4	7.74	123.42	118.00
1	N	1492	A	C6-C5-N7	-7.74	126.88	132.30
1	N	298	A	C5-C6-N6	-7.74	117.51	123.70
1	N	1345	U	N1-C2-O2	-7.74	117.39	122.80
1	N	1157	A	C2-N3-C4	-7.73	106.73	110.60
1	N	6	G	C5-C6-N1	-7.73	107.63	111.50
1	N	782	A	N9-C4-C5	7.73	108.89	105.80
1	N	208	U	C5-C4-O4	-7.73	121.26	125.90
1	N	1005	A	C5-C6-N6	-7.73	117.52	123.70
1	N	1211	U	N3-C4-O4	7.73	124.81	119.40
1	N	168	G	O4'-C1'-N9	7.73	114.38	108.20
1	N	403	C	O4'-C1'-N1	7.73	114.38	108.20
1	N	642	A	C4-C5-C6	7.73	120.86	117.00
1	N	1117	A	N7-C8-N9	-7.73	109.94	113.80
1	N	331	G	P-O5'-C5'	7.72	133.26	120.90
1	N	1269	A	C6-C5-N7	-7.72	126.89	132.30
1	N	406	G	C5-C6-O6	-7.72	123.97	128.60
1	N	1429	A	N1-C6-N6	7.72	123.23	118.60
1	N	593	U	O4'-C1'-N1	7.72	114.38	108.20
1	N	53	A	O4'-C1'-N9	7.72	114.37	108.20
1	N	591	U	N1-C2-N3	7.72	119.53	114.90
1	N	1072	G	C8-N9-C4	-7.72	103.31	106.40
1	N	1511	G	N1-C6-O6	7.72	124.53	119.90
1	N	110	C	O4'-C1'-N1	7.71	114.37	108.20
1	N	233	C	C2-N1-C1'	7.71	127.28	118.80
1	N	496	A	C5'-C4'-C3'	-7.71	103.66	116.00
1	N	1171	A	P-O3'-C3'	7.71	128.96	119.70
1	N	447	G	C8-N9-C4	7.71	109.48	106.40
1	N	1249	C	C1'-O4'-C4'	7.71	116.07	109.90
1	N	1341	U	C4-C5-C6	7.71	124.33	119.70
1	N	1460	C	N3-C4-N4	7.71	123.40	118.00
1	N	450	G	N1-C2-N3	-7.71	119.27	123.90
1	N	126	G	C4-C5-C6	7.71	123.42	118.80
1	N	85	U	C5-C6-N1	7.71	126.55	122.70
1	N	890	G	O4'-C1'-C2'	-7.71	98.09	105.80
1	N	1262	C	C5-C4-N4	-7.71	114.81	120.20
1	N	473	U	C2-N3-C4	7.70	131.62	127.00
1	N	639	G	N1-C6-O6	7.70	124.52	119.90
1	N	830	G	C2-N3-C4	7.70	115.75	111.90
1	N	925	G	C4-C5-C6	7.70	123.42	118.80
1	N	1473	G	N1-C2-N3	-7.70	119.28	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	191	G	O4'-C1'-N9	7.70	114.36	108.20
1	N	1178	G	N1-C2-N3	-7.70	119.28	123.90
1	N	1377	A	C6-N1-C2	7.70	123.22	118.60
1	N	9	G	C5-C6-N1	-7.70	107.65	111.50
1	N	292	G	N7-C8-N9	-7.70	109.25	113.10
1	N	785	G	O4'-C1'-N9	7.69	114.36	108.20
1	N	504	C	N3-C4-N4	7.69	123.38	118.00
1	N	782	A	C8-N9-C4	-7.69	102.72	105.80
1	N	53	A	N1-C6-N6	7.69	123.21	118.60
1	N	993	G	P-O3'-C3'	7.69	128.93	119.70
1	N	1453	G	O4'-C1'-N9	7.69	114.35	108.20
1	N	157	U	O4'-C1'-N1	7.69	114.35	108.20
1	N	366	A	N1-C2-N3	7.69	133.14	129.30
1	N	1426	G	C4-C5-N7	7.69	113.88	110.80
1	N	473	U	N3-C2-O2	7.68	127.58	122.20
1	N	612	C	C6-N1-C2	-7.68	117.23	120.30
1	N	958	A	C4-C5-C6	7.68	120.84	117.00
1	N	1093	A	C5-C6-N6	-7.68	117.55	123.70
1	N	257	G	N1-C6-O6	7.68	124.51	119.90
1	N	465	A	C5-C6-N1	-7.68	113.86	117.70
1	N	794	A	C4'-C3'-C2'	-7.68	94.92	102.60
1	N	1157	A	C5-N7-C8	-7.68	100.06	103.90
1	N	1226	C	P-O3'-C3'	7.68	128.92	119.70
1	N	1055	A	O4'-C1'-N9	7.68	114.34	108.20
1	N	1147	C	C5-C4-N4	-7.68	114.82	120.20
1	N	1495	U	P-O5'-C5'	7.68	133.19	120.90
1	N	111	G	C4-C5-N7	-7.68	107.73	110.80
1	N	1160	G	N1-C6-O6	-7.68	115.29	119.90
1	N	539	A	N3-C4-C5	-7.68	121.42	126.80
1	N	1048	G	N1-C6-O6	7.68	124.51	119.90
1	N	1200	C	O4'-C1'-N1	7.68	114.34	108.20
1	N	524	G	C5-C6-O6	-7.68	123.99	128.60
1	N	755	G	C5-C6-O6	-7.68	123.99	128.60
1	N	809	G	C2-N3-C4	7.68	115.74	111.90
1	N	1112	C	N3-C4-N4	7.68	123.37	118.00
1	N	1201	A	N1-C2-N3	7.68	133.14	129.30
1	N	1241	G	P-O3'-C3'	-7.68	110.49	119.70
1	N	1453	G	C5-C6-N1	7.68	115.34	111.50
1	N	6	G	C8-N9-C4	-7.67	103.33	106.40
1	N	894	G	C2'-C3'-O3'	7.67	126.39	109.50
1	N	1087	G	N1-C2-N3	-7.67	119.30	123.90
1	N	1468	A	C5-C6-N1	-7.67	113.86	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1497	G	O4'-C1'-N9	7.67	114.34	108.20
1	N	497	G	C5-C6-O6	-7.67	124.00	128.60
1	N	211	G	C4'-C3'-C2'	7.67	110.27	102.60
1	N	503	C	N3-C4-C5	-7.67	118.83	121.90
1	N	1043	G	N7-C8-N9	7.67	116.94	113.10
1	N	1121	U	C5-C6-N1	7.67	126.53	122.70
1	N	1282	C	P-O3'-C3'	-7.67	110.50	119.70
1	N	1367	C	C5-C4-N4	-7.67	114.83	120.20
1	N	1482	G	C4'-C3'-C2'	-7.67	94.93	102.60
1	N	1158	C	C2-N3-C4	7.67	123.73	119.90
1	N	1467	C	C2-N3-C4	7.67	123.73	119.90
1	N	738	C	N3-C2-O2	7.66	127.27	121.90
1	N	1130	A	C8-N9-C4	7.66	108.87	105.80
1	N	220	G	C5-C6-O6	-7.66	124.00	128.60
1	N	653	U	N3-C4-O4	7.66	124.76	119.40
1	N	718	A	C1'-O4'-C4'	7.66	116.03	109.90
1	N	734	G	P-O3'-C3'	7.66	128.89	119.70
1	N	980	C	N3-C2-O2	-7.66	116.54	121.90
1	N	94	G	C6-C5-N7	-7.66	125.80	130.40
1	N	341	C	N3-C4-N4	7.66	123.36	118.00
1	N	479	U	N1-C2-O2	7.66	128.16	122.80
1	N	637	C	O4'-C1'-N1	7.66	114.33	108.20
1	N	858	G	C5-N7-C8	7.66	108.13	104.30
1	N	95	C	C2-N3-C4	7.66	123.73	119.90
1	N	1155	A	C2-N3-C4	7.66	114.43	110.60
1	N	1185	G	N1-C2-N3	-7.66	119.31	123.90
1	N	261	U	O4'-C1'-N1	7.65	114.32	108.20
1	N	812	G	C6-C5-N7	-7.65	125.81	130.40
1	N	919	A	N1-C6-N6	7.65	123.19	118.60
1	N	495	A	C5-C6-N1	-7.65	113.87	117.70
1	N	1162	C	C5-C4-N4	-7.65	114.84	120.20
1	N	1074	G	N7-C8-N9	7.65	116.93	113.10
1	N	333	U	O4'-C1'-N1	7.65	114.32	108.20
1	N	319	G	N7-C8-N9	7.65	116.92	113.10
1	N	349	A	C5-C6-N6	-7.65	117.58	123.70
1	N	707	U	N3-C2-O2	7.65	127.55	122.20
1	N	953	G	N3-C4-C5	7.65	132.42	128.60
1	N	975	A	C4-C5-C6	7.65	120.82	117.00
1	N	1494	G	C4-C5-C6	7.65	123.39	118.80
1	N	798	U	P-O5'-C5'	-7.65	108.67	120.90
1	N	1310	G	C5-C6-O6	-7.65	124.01	128.60
1	N	256	U	N3-C2-O2	7.64	127.55	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	339	C	O4'-C1'-N1	7.64	114.32	108.20
1	N	1128	C	C5-C6-N1	7.64	124.82	121.00
1	N	1339	A	N9-C4-C5	7.64	108.86	105.80
1	N	1473	G	O4'-C1'-N9	7.64	114.32	108.20
1	N	474	G	C1'-O4'-C4'	7.64	116.01	109.90
1	N	502	A	O4'-C1'-N9	7.64	114.31	108.20
1	N	1071	C	O4'-C1'-N1	7.64	114.31	108.20
1	N	1151	A	C3'-C2'-C1'	7.64	107.61	101.50
1	N	424	G	C4-N9-C1'	7.64	136.43	126.50
1	N	1227	A	P-O3'-C3'	7.64	128.87	119.70
1	N	132	C	C2-N3-C4	7.64	123.72	119.90
1	N	228	A	N3-C4-C5	-7.64	121.45	126.80
1	N	711	G	N1-C6-O6	7.64	124.48	119.90
1	N	1272	G	O4'-C1'-N9	7.64	114.31	108.20
1	N	1247	U	N1-C2-O2	-7.64	117.45	122.80
1	N	374	A	N7-C8-N9	-7.63	109.98	113.80
1	N	621	A	C2-N3-C4	-7.63	106.78	110.60
1	N	758	C	C5-C4-N4	-7.63	114.86	120.20
1	N	1117	A	O4'-C1'-N9	7.63	114.31	108.20
1	N	1180	A	C5-C6-N6	-7.63	117.59	123.70
1	N	148	G	C6-C5-N7	-7.63	125.82	130.40
1	N	233	C	C5-C6-N1	7.63	124.82	121.00
1	N	1000	A	N1-C2-N3	7.63	133.12	129.30
1	N	1065	U	C5-C4-O4	7.63	130.48	125.90
1	N	1234	C	P-O5'-C5'	7.63	133.11	120.90
1	N	1458	G	N7-C8-N9	-7.63	109.28	113.10
1	N	548	G	C4-C5-C6	7.63	123.38	118.80
1	N	1062	U	N3-C4-O4	7.63	124.74	119.40
1	N	1276	G	C4-C5-N7	7.63	113.85	110.80
1	N	1441	A	O4'-C1'-N9	7.63	114.30	108.20
1	N	211	G	C2-N3-C4	7.63	115.71	111.90
1	N	428	G	N7-C8-N9	-7.63	109.29	113.10
1	N	732	C	C5-C6-N1	-7.63	117.19	121.00
1	N	742	G	N1-C2-N2	-7.63	109.34	116.20
1	N	1213	A	N9-C4-C5	-7.63	102.75	105.80
1	N	116	A	C2-N3-C4	7.62	114.41	110.60
1	N	411	A	N9-C4-C5	7.62	108.85	105.80
1	N	1310	G	O4'-C1'-N9	7.62	114.30	108.20
1	N	16	A	C6-N1-C2	7.62	123.17	118.60
1	N	318	G	N1-C2-N3	-7.62	119.33	123.90
1	N	468	A	C5-C6-N6	-7.62	117.61	123.70
1	N	650	G	N1-C2-N3	-7.62	119.33	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	656	G	N7-C8-N9	-7.62	109.29	113.10
1	N	932	C	C5-C4-N4	-7.62	114.87	120.20
1	N	398	U	C5-C4-O4	-7.62	121.33	125.90
1	N	1533	C	C2-N1-C1'	7.62	127.18	118.80
1	N	35	G	C5-C6-O6	-7.61	124.03	128.60
1	N	868	C	N3-C4-N4	7.61	123.33	118.00
1	N	870	U	C3'-C2'-C1'	7.61	107.59	101.50
1	N	452	A	N7-C8-N9	-7.61	109.99	113.80
1	N	870	U	P-O3'-C3'	-7.61	110.57	119.70
1	N	95	C	N3-C4-N4	7.61	123.33	118.00
1	N	895	G	C8-N9-C4	7.61	109.44	106.40
1	N	165	G	C5-C6-N1	-7.61	107.70	111.50
1	N	150	U	C5-C4-O4	-7.61	121.34	125.90
1	N	302	G	N1-C2-N3	-7.61	119.33	123.90
1	N	1041	G	C5-C6-N1	-7.61	107.70	111.50
1	N	1092	A	C4-C5-C6	7.61	120.80	117.00
1	N	197	A	C5-C6-N6	-7.60	117.62	123.70
1	N	1193	G	N3-C2-N2	7.60	125.22	119.90
1	N	1363	A	C4-C5-N7	-7.60	106.90	110.70
1	N	509	A	N7-C8-N9	-7.60	110.00	113.80
1	N	774	G	C8-N9-C4	-7.60	103.36	106.40
1	N	75	G	C2-N3-C4	7.60	115.70	111.90
1	N	402	G	N3-C2-N2	7.60	125.22	119.90
1	N	969	A	P-O5'-C5'	-7.60	108.75	120.90
1	N	1325	C	C6-N1-C2	7.60	123.34	120.30
1	N	378	G	P-O3'-C3'	7.60	128.82	119.70
1	N	1254	A	O4'-C1'-N9	7.60	114.28	108.20
1	N	1434	A	C4-C5-C6	7.60	120.80	117.00
1	N	103	U	C5-C4-O4	-7.59	121.34	125.90
1	N	1230	C	C5-C6-N1	7.59	124.80	121.00
1	N	84	U	C6-N1-C1'	-7.59	110.57	121.20
1	N	1374	A	C5'-C4'-O4'	7.59	118.21	109.10
1	N	28	A	O4'-C1'-N9	7.59	114.27	108.20
1	N	448	A	O4'-C1'-N9	7.59	114.27	108.20
1	N	550	G	O4'-C1'-N9	7.59	114.27	108.20
1	N	776	G	N1-C6-O6	7.59	124.45	119.90
1	N	952	U	C5-C6-N1	7.59	126.50	122.70
1	N	965	U	O4'-C1'-N1	7.59	114.27	108.20
1	N	31	G	C5-C6-N1	7.59	115.30	111.50
1	N	236	A	C5-C6-N6	-7.59	117.63	123.70
1	N	664	G	C5-C6-N1	-7.59	107.70	111.50
1	N	10	A	C4'-C3'-C2'	-7.59	95.01	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	70	U	N3-C4-C5	-7.59	110.05	114.60
1	N	37	U	C5-C6-N1	7.59	126.49	122.70
1	N	111	G	C5-C6-N1	-7.59	107.71	111.50
1	N	954	G	C4-C5-C6	7.59	123.35	118.80
1	N	1233	G	N3-C4-N9	7.59	130.55	126.00
1	N	1337	G	C6-C5-N7	-7.59	125.85	130.40
1	N	1480	A	C4-C5-C6	7.59	120.79	117.00
1	N	1386	G	N3-C2-N2	7.58	125.21	119.90
1	N	377	G	C5-N7-C8	-7.58	100.51	104.30
1	N	1404	C	C5-C4-N4	-7.58	114.89	120.20
1	N	1525	G	C2-N3-C4	-7.58	108.11	111.90
1	N	291	U	C5-C6-N1	7.58	126.49	122.70
1	N	713	G	C3'-C2'-C1'	-7.58	95.44	101.50
1	N	1135	U	O4'-C1'-N1	7.58	114.27	108.20
1	N	1285	A	C4-C5-N7	-7.58	106.91	110.70
1	N	1278	G	O4'-C1'-N9	7.58	114.26	108.20
1	N	673	A	C5-C6-N1	-7.58	113.91	117.70
1	N	1048	G	C8-N9-C4	7.58	109.43	106.40
1	N	1434	A	C5-C6-N1	-7.58	113.91	117.70
1	N	323	U	N3-C4-C5	-7.57	110.06	114.60
1	N	665	A	C5-N7-C8	7.57	107.69	103.90
1	N	1142	G	C2-N3-C4	7.57	115.69	111.90
1	N	227	G	N3-C2-N2	7.57	125.20	119.90
1	N	500	G	C4-C5-N7	7.57	113.83	110.80
1	N	824	G	N9-C4-C5	7.57	108.43	105.40
1	N	165	G	N1-C6-O6	7.57	124.44	119.90
1	N	260	G	O4'-C1'-N9	7.57	114.25	108.20
1	N	269	C	N3-C2-O2	7.57	127.20	121.90
1	N	662	U	C2-N3-C4	-7.57	122.46	127.00
1	N	698	G	C6-C5-N7	-7.57	125.86	130.40
1	N	1238	A	C2-N3-C4	-7.57	106.82	110.60
1	N	408	A	C5-C6-N1	-7.57	113.92	117.70
1	N	761	G	C8-N9-C4	7.57	109.43	106.40
1	N	985	C	C2-N3-C4	7.57	123.68	119.90
1	N	1000	A	C4-C5-N7	-7.57	106.92	110.70
1	N	1144	G	N1-C6-O6	7.57	124.44	119.90
1	N	949	A	O4'-C1'-N9	7.56	114.25	108.20
1	N	1062	U	C5-C4-O4	-7.56	121.36	125.90
1	N	242	G	N1-C6-O6	7.56	124.44	119.90
1	N	386	C	C2-N3-C4	7.56	123.68	119.90
1	N	1212	U	C6-N1-C2	-7.56	116.46	121.00
1	N	1486	G	N3-C2-N2	7.56	125.19	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	37	U	P-O5'-C5'	7.56	132.99	120.90
1	N	59	A	C5-N7-C8	7.56	107.68	103.90
1	N	545	C	C5-C4-N4	-7.56	114.91	120.20
1	N	595	A	C5-C6-N6	-7.56	117.65	123.70
1	N	731	G	O4'-C1'-N9	7.56	114.25	108.20
1	N	1019	A	P-O3'-C3'	-7.55	110.63	119.70
1	N	704	A	O4'-C4'-C3'	-7.55	96.45	104.00
1	N	1429	A	C3'-C2'-C1'	-7.55	95.46	101.50
1	N	465	A	C8-N9-C4	-7.55	102.78	105.80
1	N	1017	U	O4'-C1'-N1	7.55	114.24	108.20
1	N	439	U	C5-C4-O4	-7.55	121.37	125.90
1	N	1176	A	C4-C5-C6	7.55	120.77	117.00
1	N	1460	C	C2-N1-C1'	7.55	127.11	118.80
1	N	514	C	N3-C4-C5	-7.55	118.88	121.90
1	N	777	A	N1-C6-N6	7.55	123.13	118.60
1	N	855	U	N3-C2-O2	7.55	127.48	122.20
1	N	1510	C	C6-N1-C2	-7.55	117.28	120.30
1	N	1195	C	C4-C5-C6	7.55	121.17	117.40
1	N	1373	G	C6-C5-N7	-7.55	125.87	130.40
1	N	1450	U	O4'-C1'-N1	7.55	114.24	108.20
1	N	86	G	C6-C5-N7	-7.54	125.87	130.40
1	N	137	U	O4'-C1'-N1	7.54	114.23	108.20
1	N	954	G	C4-C5-N7	-7.54	107.78	110.80
1	N	80	A	C3'-C2'-C1'	-7.54	95.47	101.50
1	N	616	G	N1-C6-O6	7.54	124.42	119.90
1	N	1296	C	N3-C4-C5	-7.54	118.89	121.90
1	N	1533	C	C6-N1-C1'	-7.54	111.76	120.80
1	N	242	G	C2-N3-C4	7.54	115.67	111.90
1	N	858	G	N9-C4-C5	7.54	108.41	105.40
1	N	1231	G	C6-C5-N7	-7.54	125.88	130.40
1	N	166	U	P-O3'-C3'	7.53	128.74	119.70
1	N	1224	U	C2-N1-C1'	7.53	126.74	117.70
1	N	1292	G	N1-C2-N3	-7.53	119.38	123.90
1	N	221	C	C5-C6-N1	7.53	124.76	121.00
1	N	936	C	C6-N1-C2	-7.53	117.29	120.30
1	N	54	C	N3-C4-N4	7.53	123.27	118.00
1	N	305	G	C2'-C3'-O3'	7.53	126.06	109.50
1	N	591	U	C2-N3-C4	-7.53	122.48	127.00
1	N	68	G	C4-C5-C6	7.52	123.31	118.80
1	N	212	G	C5-C6-O6	-7.52	124.09	128.60
1	N	1282	C	C5'-C4'-O4'	-7.52	100.07	109.10
1	N	316	C	C4-C5-C6	-7.52	113.64	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1260	G	C6-N1-C2	7.52	129.61	125.10
1	N	410	G	C6-C5-N7	-7.52	125.89	130.40
1	N	652	U	P-O3'-C3'	7.52	128.72	119.70
1	N	700	G	C5-C6-O6	-7.52	124.09	128.60
1	N	1163	A	C5-C6-N1	-7.52	113.94	117.70
1	N	544	G	N1-C2-N3	-7.51	119.39	123.90
1	N	825	A	O4'-C1'-N9	7.51	114.21	108.20
1	N	259	G	N3-C2-N2	7.51	125.16	119.90
1	N	1383	C	N3-C4-N4	7.51	123.26	118.00
1	N	31	G	N1-C6-O6	7.51	124.41	119.90
1	N	172	A	C5-C6-N6	-7.51	117.69	123.70
1	N	224	U	C4'-C3'-C2'	-7.51	95.09	102.60
1	N	542	G	N9-C4-C5	-7.51	102.40	105.40
1	N	877	G	O4'-C1'-N9	7.51	114.21	108.20
1	N	1525	G	N3-C4-C5	7.51	132.35	128.60
1	N	69	G	C6-C5-N7	-7.51	125.89	130.40
1	N	1405	G	C4-N9-C1'	-7.51	116.74	126.50
1	N	568	G	N3-C2-N2	7.51	125.15	119.90
1	N	1296	C	O4'-C1'-C2'	7.50	114.35	107.60
1	N	379	C	C6-N1-C1'	-7.50	111.80	120.80
1	N	558	G	C6-C5-N7	-7.50	125.90	130.40
1	N	1124	G	N1-C2-N2	-7.50	109.45	116.20
1	N	1380	U	O4'-C1'-N1	7.50	114.20	108.20
1	N	765	G	N1-C2-N3	-7.50	119.40	123.90
1	N	68	G	N1-C2-N2	-7.50	109.45	116.20
1	N	376	G	N7-C8-N9	7.50	116.85	113.10
1	N	382	A	N9-C4-C5	7.50	108.80	105.80
1	N	676	A	C5-C6-N1	-7.50	113.95	117.70
1	N	335	C	C5-C4-N4	-7.50	114.95	120.20
1	N	811	C	N3-C4-N4	7.50	123.25	118.00
1	N	861	G	N3-C2-N2	7.50	125.15	119.90
1	N	1335	U	C5-C6-N1	7.50	126.45	122.70
1	N	489	C	N3-C4-C5	-7.50	118.90	121.90
1	N	492	C	P-O3'-C3'	7.50	128.69	119.70
1	N	663	A	C6-C5-N7	-7.50	127.05	132.30
1	N	776	G	P-O3'-C3'	7.50	128.69	119.70
1	N	582	C	C4-C5-C6	-7.49	113.65	117.40
1	N	708	C	C5-C4-N4	-7.49	114.96	120.20
1	N	866	C	N1-C2-N3	-7.49	113.95	119.20
1	N	890	G	C5-N7-C8	7.49	108.05	104.30
1	N	518	C	C2-N1-C1'	7.49	127.04	118.80
1	N	847	G	N1-C2-N3	-7.49	119.41	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	518	C	C6-N1-C1'	-7.49	111.81	120.80
1	N	541	G	N1-C2-N3	-7.49	119.41	123.90
1	N	1515	G	C4-C5-N7	-7.49	107.80	110.80
1	N	7	A	O4'-C1'-N9	7.49	114.19	108.20
1	N	45	G	N7-C8-N9	-7.49	109.36	113.10
1	N	213	G	C4-C5-N7	7.49	113.80	110.80
1	N	688	G	C5-N7-C8	7.49	108.04	104.30
1	N	1489	G	C5-N7-C8	7.49	108.04	104.30
1	N	1067	A	C4-C5-C6	7.48	120.74	117.00
1	N	251	G	P-O3'-C3'	7.48	128.68	119.70
1	N	494	G	C5-C6-O6	-7.48	124.11	128.60
1	N	658	C	C5-C4-N4	-7.48	114.96	120.20
1	N	550	G	N9-C4-C5	7.48	108.39	105.40
1	N	1176	A	N9-C4-C5	-7.48	102.81	105.80
1	N	1177	G	O4'-C1'-N9	7.48	114.18	108.20
1	N	1519	A	C6-N1-C2	7.48	123.09	118.60
1	N	402	G	C2-N3-C4	7.48	115.64	111.90
1	N	982	U	C2'-C3'-O3'	7.48	125.95	109.50
1	N	1040	U	C5-C4-O4	-7.48	121.41	125.90
1	N	1215	G	C5-N7-C8	7.48	108.04	104.30
1	N	205	A	C5-C6-N6	-7.48	117.72	123.70
1	N	134	G	C4-C5-N7	7.47	113.79	110.80
1	N	913	A	C4-C5-N7	-7.47	106.96	110.70
1	N	1217	C	C5-C6-N1	7.47	124.74	121.00
1	N	346	G	N3-C4-N9	7.47	130.48	126.00
1	N	423	G	C1'-O4'-C4'	-7.47	103.92	109.90
1	N	1444	U	O4'-C1'-N1	7.47	114.18	108.20
1	N	29	U	N1-C2-N3	-7.47	110.42	114.90
1	N	887	G	O4'-C1'-N9	7.47	114.17	108.20
1	N	647	C	P-O5'-C5'	7.47	132.85	120.90
1	N	992	U	C5'-C4'-C3'	7.47	127.95	116.00
1	N	1066	C	C4-C5-C6	-7.47	113.67	117.40
1	N	43	C	C5-C4-N4	-7.46	114.97	120.20
1	N	120	A	N1-C6-N6	7.46	123.08	118.60
1	N	494	G	C8-N9-C1'	-7.46	117.30	127.00
1	N	786	G	O4'-C1'-N9	7.46	114.17	108.20
1	N	885	G	N3-C4-C5	-7.46	124.87	128.60
1	N	1274	A	C6-C5-N7	-7.46	127.07	132.30
1	N	1478	U	C4-C5-C6	-7.46	115.22	119.70
1	N	184	G	C2-N3-C4	-7.46	108.17	111.90
1	N	429	U	C3'-C2'-C1'	-7.46	95.53	101.50
1	N	681	A	O4'-C1'-N9	7.46	114.17	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1218	C	N3-C4-C5	-7.46	118.92	121.90
1	N	690	G	N7-C8-N9	7.46	116.83	113.10
1	N	837	U	P-O3'-C3'	-7.46	110.75	119.70
1	N	900	A	C4-C5-N7	-7.46	106.97	110.70
1	N	1249	C	C5-C4-N4	-7.46	114.98	120.20
1	N	1483	A	C4-C5-N7	-7.46	106.97	110.70
1	N	19	A	O4'-C1'-N9	7.46	114.17	108.20
1	N	170	U	N3-C4-O4	7.46	124.62	119.40
1	N	629	A	C5-C6-N1	-7.46	113.97	117.70
1	N	478	A	N1-C2-N3	7.46	133.03	129.30
1	N	395	C	C5-C6-N1	7.46	124.73	121.00
1	N	1301	U	C2-N3-C4	7.46	131.47	127.00
1	N	971	G	C5-C6-O6	-7.46	124.13	128.60
1	N	1154	G	C2-N3-C4	-7.46	108.17	111.90
1	N	524	G	C5-N7-C8	7.45	108.03	104.30
1	N	910	C	C5'-C4'-O4'	7.45	118.04	109.10
1	N	1278	G	C8-N9-C1'	-7.45	117.31	127.00
1	N	1505	G	O4'-C1'-N9	7.45	114.16	108.20
1	N	469	C	N3-C4-N4	7.45	123.22	118.00
1	N	41	G	N1-C6-O6	7.45	124.37	119.90
1	N	162	A	C5-N7-C8	7.45	107.62	103.90
1	N	514	C	O4'-C1'-N1	7.45	114.16	108.20
1	N	532	A	C4-N9-C1'	7.45	139.71	126.30
1	N	627	G	C8-N9-C4	-7.45	103.42	106.40
1	N	705	G	O4'-C1'-N9	7.45	114.16	108.20
1	N	602	A	P-O5'-C5'	7.45	132.82	120.90
1	N	608	A	N3-C4-N9	7.45	133.36	127.40
1	N	819	A	C5-C6-N6	-7.45	117.74	123.70
1	N	282	A	N7-C8-N9	7.45	117.52	113.80
1	N	774	G	C1'-O4'-C4'	7.45	115.86	109.90
1	N	1153	G	N1-C2-N3	-7.45	119.43	123.90
1	N	59	A	C4-C5-C6	7.44	120.72	117.00
1	N	1011	C	N3-C4-C5	-7.44	118.92	121.90
1	N	1153	G	C6-C5-N7	-7.44	125.94	130.40
1	N	1425	U	C4-C5-C6	7.44	124.17	119.70
1	N	442	G	C8-N9-C4	7.44	109.38	106.40
1	N	670	G	N1-C6-O6	7.44	124.36	119.90
1	N	1125	U	C5'-C4'-C3'	-7.44	104.10	116.00
1	N	1534	A	C8-N9-C4	-7.44	102.83	105.80
1	N	1193	G	C8-N9-C1'	-7.43	117.34	127.00
1	N	1326	U	O4'-C1'-N1	7.43	114.15	108.20
1	N	164	G	C4-C5-C6	7.43	123.26	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	577	G	C2-N3-C4	-7.43	108.18	111.90
1	N	148	G	C5-N7-C8	-7.43	100.58	104.30
1	N	432	A	N3-C4-N9	7.43	133.34	127.40
1	N	1145	A	C3'-C2'-C1'	7.43	107.44	101.50
1	N	262	A	N3-C4-C5	-7.43	121.60	126.80
1	N	350	G	N9-C4-C5	-7.43	102.43	105.40
1	N	514	C	C5-C6-N1	7.43	124.72	121.00
1	N	794	A	C4-C5-C6	7.43	120.72	117.00
1	N	821	G	C6-C5-N7	-7.43	125.94	130.40
1	N	851	G	C5-C6-O6	-7.43	124.14	128.60
1	N	884	U	O4'-C1'-N1	7.43	114.14	108.20
1	N	1173	U	C5-C4-O4	7.43	130.36	125.90
1	N	1460	C	O4'-C1'-N1	7.43	114.14	108.20
1	N	1005	A	N9-C4-C5	-7.43	102.83	105.80
1	N	740	U	N3-C4-O4	7.43	124.60	119.40
1	N	753	A	P-O5'-C5'	-7.42	109.02	120.90
1	N	896	C	C5'-C4'-C3'	-7.42	104.12	116.00
1	N	73	C	C2-N1-C1'	-7.42	110.64	118.80
1	N	498	A	C5'-C4'-O4'	-7.42	100.19	109.10
1	N	777	A	O4'-C1'-N9	7.42	114.14	108.20
1	N	1156	G	O4'-C4'-C3'	-7.42	96.58	104.00
1	N	175	C	C6-N1-C2	-7.42	117.33	120.30
1	N	517	G	C4-C5-C6	7.42	123.25	118.80
1	N	522	C	N3-C4-N4	7.42	123.19	118.00
1	N	1025	U	N3-C4-C5	-7.42	110.15	114.60
1	N	97	G	C5-C6-O6	-7.42	124.15	128.60
1	N	813	U	C2-N3-C4	7.42	131.45	127.00
1	N	1508	A	N1-C6-N6	7.42	123.05	118.60
1	N	1067	A	C5-C6-N1	-7.42	113.99	117.70
1	N	106	C	O4'-C1'-N1	7.42	114.13	108.20
1	N	1236	A	C3'-C2'-C1'	7.42	107.43	101.50
1	N	419	C	C2-N3-C4	-7.42	116.19	119.90
1	N	658	C	P-O5'-C5'	7.41	132.76	120.90
1	N	1472	U	N3-C4-C5	7.41	119.05	114.60
1	N	1494	G	C6-C5-N7	-7.41	125.95	130.40
1	N	376	G	C8-N9-C4	-7.41	103.44	106.40
1	N	562	U	N3-C4-O4	7.41	124.59	119.40
1	N	884	U	C4-C5-C6	7.41	124.15	119.70
1	N	1110	A	C4-C5-C6	7.41	120.70	117.00
1	N	1148	U	C6-N1-C2	-7.41	116.55	121.00
1	N	98	A	C5'-C4'-C3'	-7.41	104.15	116.00
1	N	264	C	O4'-C1'-N1	7.41	114.13	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	829	G	C6-C5-N7	-7.41	125.95	130.40
1	N	44	A	C4-C5-C6	7.41	120.70	117.00
1	N	456	A	C5-N7-C8	7.41	107.60	103.90
1	N	307	C	N3-C4-C5	-7.40	118.94	121.90
1	N	302	G	C5-C6-O6	-7.40	124.16	128.60
1	N	447	G	N9-C1'-C2'	-7.40	103.86	112.00
1	N	858	G	N3-C4-C5	-7.40	124.90	128.60
1	N	149	A	P-O3'-C3'	7.40	128.58	119.70
1	N	321	A	C4-C5-C6	7.40	120.70	117.00
1	N	515	G	C8-N9-C4	-7.40	103.44	106.40
1	N	1386	G	P-O3'-C3'	-7.40	110.82	119.70
1	N	1035	A	C4'-C3'-C2'	-7.40	95.20	102.60
1	N	1084	G	N1-C2-N3	-7.40	119.46	123.90
1	N	1143	G	C5-C6-N1	-7.39	107.80	111.50
1	N	1394	A	O4'-C1'-N9	7.39	114.12	108.20
1	N	1508	A	C4-C5-N7	7.39	114.40	110.70
1	N	369	G	O4'-C1'-N9	7.39	114.11	108.20
1	N	480	U	N3-C4-C5	-7.39	110.16	114.60
1	N	169	C	O4'-C1'-N1	7.39	114.11	108.20
1	N	524	G	N9-C4-C5	7.39	108.36	105.40
1	N	272	C	C2-N1-C1'	7.39	126.93	118.80
1	N	541	G	C2-N3-C4	7.39	115.59	111.90
1	N	800	G	O4'-C1'-N9	7.39	114.11	108.20
1	N	1344	C	O4'-C1'-N1	7.39	114.11	108.20
1	N	656	G	N9-C4-C5	7.39	108.36	105.40
1	N	1090	U	P-O5'-C5'	7.39	132.72	120.90
1	N	1470	U	O4'-C1'-N1	7.39	114.11	108.20
1	N	150	U	C1'-O4'-C4'	7.39	115.81	109.90
1	N	162	A	C4-C5-N7	-7.39	107.01	110.70
1	N	318	G	C4-C5-N7	7.39	113.75	110.80
1	N	1126	U	C6-N1-C1'	-7.39	110.86	121.20
1	N	1248	A	N1-C6-N6	7.39	123.03	118.60
1	N	254	G	C6-C5-N7	-7.38	125.97	130.40
1	N	1457	G	C2-N3-C4	7.38	115.59	111.90
1	N	76	G	C5-N7-C8	-7.38	100.61	104.30
1	N	297	G	C4-N9-C1'	-7.38	116.90	126.50
1	N	1068	G	C4-N9-C1'	7.38	136.09	126.50
1	N	1173	U	O4'-C1'-N1	7.38	114.10	108.20
1	N	455	G	C5-N7-C8	-7.38	100.61	104.30
1	N	1006	G	C4-N9-C1'	-7.38	116.91	126.50
1	N	580	C	N1-C2-O2	-7.38	114.47	118.90
1	N	1254	A	C5-N7-C8	7.38	107.59	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	13	U	C2-N3-C4	-7.37	122.58	127.00
1	N	1079	G	C6-C5-N7	-7.37	125.98	130.40
1	N	1486	G	C5-C6-N1	7.37	115.19	111.50
1	N	240	G	N1-C6-O6	7.37	124.32	119.90
1	N	794	A	O4'-C1'-N9	7.37	114.10	108.20
1	N	80	A	C8-N9-C4	-7.37	102.85	105.80
1	N	1112	C	N3-C4-C5	-7.37	118.95	121.90
1	N	1507	A	C5-C6-N1	-7.37	114.02	117.70
1	N	470	C	P-O3'-C3'	7.37	128.54	119.70
1	N	718	A	P-O3'-C3'	7.36	128.54	119.70
1	N	857	C	C4-C5-C6	7.36	121.08	117.40
1	N	890	G	N3-C2-N2	7.36	125.06	119.90
1	N	1145	A	O3'-P-O5'	-7.36	90.01	104.00
1	N	11	G	C5-N7-C8	-7.36	100.62	104.30
1	N	454	G	C8-N9-C4	-7.36	103.45	106.40
1	N	1518	A	C6-C5-N7	7.36	137.45	132.30
1	N	26	A	C4-C5-N7	-7.36	107.02	110.70
1	N	1207	G	O4'-C1'-N9	7.36	114.09	108.20
1	N	1257	A	C2-N3-C4	-7.36	106.92	110.60
1	N	1359	C	N3-C4-C5	-7.36	118.96	121.90
1	N	246	A	C4-C5-N7	-7.36	107.02	110.70
1	N	397	A	O4'-C4'-C3'	-7.36	96.64	104.00
1	N	1465	A	C4-C5-C6	7.36	120.68	117.00
1	N	1402	C	O4'-C1'-N1	7.36	114.09	108.20
1	N	133	U	C5-C6-N1	7.36	126.38	122.70
1	N	902	G	C6-C5-N7	-7.35	125.99	130.40
1	N	1280	A	O4'-C1'-N9	7.35	114.08	108.20
1	N	118	U	O4'-C1'-N1	7.35	114.08	108.20
1	N	158	G	N3-C4-C5	-7.35	124.92	128.60
1	N	1243	C	C4-C5-C6	7.35	121.07	117.40
1	N	244	U	C5'-C4'-C3'	-7.35	104.25	116.00
1	N	214	C	N3-C4-C5	-7.35	118.96	121.90
1	N	422	C	C5-C6-N1	7.35	124.67	121.00
1	N	536	C	C6-N1-C2	7.35	123.24	120.30
1	N	1299	A	C5-C6-N1	-7.35	114.03	117.70
1	N	323	U	C2-N3-C4	-7.34	122.59	127.00
1	N	33	A	O4'-C1'-N9	7.34	114.07	108.20
1	N	1038	C	C2-N3-C4	7.34	123.57	119.90
1	N	1246	A	N3-C4-C5	7.34	131.94	126.80
1	N	1465	A	N1-C2-N3	7.34	132.97	129.30
1	N	282	A	C2-N3-C4	-7.34	106.93	110.60
1	N	915	A	C5-C6-N1	-7.34	114.03	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1028	C	N1-C2-O2	-7.34	114.50	118.90
1	N	1280	A	C5-N7-C8	7.34	107.57	103.90
1	N	1292	G	C4-C5-C6	7.34	123.20	118.80
1	N	71	A	C6-N1-C2	-7.34	114.20	118.60
1	N	197	A	O4'-C1'-N9	7.34	114.07	108.20
1	N	270	A	C5-C6-N6	-7.34	117.83	123.70
1	N	775	G	N9-C4-C5	7.34	108.33	105.40
1	N	950	U	C5-C6-N1	7.34	126.37	122.70
1	N	1260	G	N3-C4-C5	-7.33	124.93	128.60
1	N	521	G	C5-C6-N1	-7.33	107.83	111.50
1	N	633	G	O4'-C1'-N9	7.33	114.07	108.20
1	N	849	G	N1-C6-O6	7.33	124.30	119.90
1	N	936	C	C5'-C4'-O4'	7.33	117.90	109.10
1	N	59	A	C4-C5-N7	-7.33	107.03	110.70
1	N	182	A	C5-C6-N1	-7.33	114.03	117.70
1	N	581	G	N1-C6-O6	7.33	124.30	119.90
1	N	883	C	N3-C4-N4	7.33	123.13	118.00
1	N	1512	U	C3'-C2'-C1'	7.33	107.37	101.50
1	N	229	U	N1-C2-N3	-7.33	110.50	114.90
1	N	424	G	C5-C6-N1	-7.33	107.83	111.50
1	N	580	C	N3-C4-N4	7.33	123.13	118.00
1	N	645	G	N9-C4-C5	-7.33	102.47	105.40
1	N	842	U	OP1-P-OP2	-7.33	108.61	119.60
1	N	409	U	C3'-C2'-C1'	-7.33	95.64	101.50
1	N	778	G	C2-N3-C4	-7.33	108.24	111.90
1	N	618	C	C6-N1-C2	-7.33	117.37	120.30
1	N	270	A	O4'-C1'-N9	7.33	114.06	108.20
1	N	308	C	C5-C6-N1	7.33	124.66	121.00
1	N	379	C	C6-N1-C2	7.33	123.23	120.30
1	N	1238	A	P-O3'-C3'	-7.33	110.91	119.70
1	N	642	A	P-O5'-C5'	7.32	132.62	120.90
1	N	681	A	C6-C5-N7	-7.32	127.17	132.30
1	N	910	C	P-O5'-C5'	7.32	132.62	120.90
1	N	874	G	C8-N9-C4	-7.32	103.47	106.40
1	N	841	C	C5-C6-N1	7.32	124.66	121.00
1	N	1294	G	O4'-C1'-N9	7.32	114.06	108.20
1	N	855	U	C5-C4-O4	-7.32	121.51	125.90
1	N	859	G	N1-C2-N2	-7.32	109.61	116.20
1	N	176	C	C6-N1-C2	-7.32	117.37	120.30
1	N	309	A	C4'-C3'-C2'	-7.32	95.28	102.60
1	N	358	U	C5-C6-N1	7.32	126.36	122.70
1	N	1193	G	C8-N9-C4	7.32	109.33	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1315	U	C4'-C3'-C2'	-7.32	95.28	102.60
1	N	844	G	C2-N3-C4	7.32	115.56	111.90
1	N	1366	C	C4-C5-C6	-7.32	113.74	117.40
1	N	130	A	O4'-C4'-C3'	-7.31	96.69	104.00
1	N	689	C	C2-N1-C1'	7.31	126.84	118.80
1	N	917	G	O4'-C1'-N9	7.31	114.05	108.20
1	N	1283	U	C6-N1-C2	-7.31	116.61	121.00
1	N	1422	G	O4'-C1'-N9	7.31	114.05	108.20
1	N	75	G	C4'-C3'-C2'	-7.31	95.29	102.60
1	N	592	G	N1-C2-N3	-7.31	119.52	123.90
1	N	448	A	N9-C4-C5	-7.31	102.88	105.80
1	N	680	C	O4'-C1'-N1	7.31	114.05	108.20
1	N	1484	C	N3-C4-N4	7.31	123.11	118.00
1	N	313	A	C6-C5-N7	-7.30	127.19	132.30
1	N	655	A	N1-C6-N6	7.30	122.98	118.60
1	N	456	A	N9-C4-C5	7.30	108.72	105.80
1	N	652	U	C5'-C4'-C3'	-7.30	104.31	116.00
1	N	988	G	O4'-C1'-N9	7.30	114.04	108.20
1	N	1326	U	C1'-O4'-C4'	7.30	115.74	109.90
1	N	706	A	C5-C6-N1	-7.30	114.05	117.70
1	N	879	C	C5-C4-N4	-7.30	115.09	120.20
1	N	1052	U	C2-N3-C4	-7.30	122.62	127.00
1	N	1373	G	C5-C6-O6	-7.30	124.22	128.60
1	N	1311	A	N9-C4-C5	7.30	108.72	105.80
1	N	1352	C	C5-C6-N1	7.30	124.65	121.00
1	N	345	C	C2-N3-C4	7.30	123.55	119.90
1	N	453	G	C8-N9-C4	-7.30	103.48	106.40
1	N	1030	U	O4'-C1'-N1	7.30	114.04	108.20
1	N	1311	A	C5-C6-N1	-7.30	114.05	117.70
1	N	1484	C	C6-N1-C2	-7.30	117.38	120.30
1	N	85	U	N3-C2-O2	7.29	127.31	122.20
1	N	671	G	C5-C6-O6	-7.29	124.22	128.60
1	N	1010	U	C6-N1-C2	-7.29	116.62	121.00
1	N	119	A	N3-C4-N9	7.29	133.24	127.40
1	N	599	C	O4'-C1'-N1	7.29	114.03	108.20
1	N	648	A	C5-C6-N6	-7.29	117.87	123.70
1	N	917	G	C4-C5-C6	7.29	123.18	118.80
1	N	1360	A	N3-C4-C5	-7.29	121.69	126.80
1	N	508	U	N3-C2-O2	-7.29	117.10	122.20
1	N	1106	G	O4'-C4'-C3'	-7.29	96.71	104.00
1	N	138	G	N3-C4-C5	7.29	132.25	128.60
1	N	428	G	O4'-C1'-N9	7.29	114.03	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	941	G	C6-C5-N7	-7.29	126.03	130.40
1	N	169	C	C2-N3-C4	-7.29	116.26	119.90
1	N	176	C	N3-C4-N4	7.29	123.10	118.00
1	N	108	G	O4'-C1'-N9	7.29	114.03	108.20
1	N	200	G	N3-C2-N2	7.29	125.00	119.90
1	N	618	C	O4'-C1'-N1	7.29	114.03	108.20
1	N	886	G	N9-C4-C5	-7.29	102.49	105.40
1	N	945	G	N1-C6-O6	7.29	124.27	119.90
1	N	991	U	N1-C2-O2	-7.29	117.70	122.80
1	N	1088	G	C5-C6-O6	-7.29	124.23	128.60
1	N	1203	C	P-O5'-C5'	7.29	132.56	120.90
1	N	7	A	N7-C8-N9	-7.28	110.16	113.80
1	N	174	A	P-O3'-C3'	-7.28	110.96	119.70
1	N	783	C	C5'-C4'-O4'	7.28	117.84	109.10
1	N	462	G	O4'-C1'-N9	7.28	114.03	108.20
1	N	554	A	O4'-C1'-N9	7.28	114.03	108.20
1	N	624	C	N1-C2-N3	-7.28	114.10	119.20
1	N	763	G	N7-C8-N9	7.28	116.74	113.10
1	N	255	G	C5-N7-C8	7.28	107.94	104.30
1	N	665	A	C5'-C4'-O4'	-7.28	100.36	109.10
1	N	1000	A	N7-C8-N9	-7.28	110.16	113.80
1	N	1039	G	C3'-C2'-C1'	7.28	107.32	101.50
1	N	1093	A	C4-C5-C6	7.28	120.64	117.00
1	N	1182	G	O4'-C1'-C2'	7.28	114.15	107.60
1	N	1300	G	N3-C4-C5	7.28	132.24	128.60
1	N	1353	G	C6-N1-C2	7.28	129.47	125.10
1	N	680	C	C2-N3-C4	-7.28	116.26	119.90
1	N	819	A	C8-N9-C4	-7.28	102.89	105.80
1	N	815	A	C5-C6-N1	-7.27	114.06	117.70
1	N	1294	G	N3-C2-N2	7.27	124.99	119.90
1	N	936	C	N3-C4-C5	-7.27	118.99	121.90
1	N	381	C	C5'-C4'-C3'	7.27	127.63	116.00
1	N	691	G	N1-C6-O6	7.27	124.26	119.90
1	N	773	G	N3-C4-N9	-7.27	121.64	126.00
1	N	508	U	C4'-C3'-C2'	7.27	109.87	102.60
1	N	702	A	C5-C6-N6	-7.27	117.89	123.70
1	N	1031	C	P-O3'-C3'	-7.27	110.98	119.70
1	N	1217	C	O4'-C1'-N1	7.27	114.02	108.20
1	N	1502	A	O4'-C1'-N9	7.27	114.02	108.20
1	N	1515	G	O4'-C1'-N9	7.27	114.02	108.20
1	N	104	G	C6-C5-N7	-7.27	126.04	130.40
1	N	131	A	C5-C6-N6	-7.27	117.89	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	775	G	C4'-C3'-C2'	-7.27	95.33	102.60
1	N	1219	A	C5-C6-N6	-7.27	117.89	123.70
1	N	255	G	N9-C4-C5	7.27	108.31	105.40
1	N	815	A	C4-C5-N7	-7.27	107.07	110.70
1	N	316	C	C5-C6-N1	7.26	124.63	121.00
1	N	588	G	P-O5'-C5'	7.26	132.53	120.90
1	N	1310	G	N1-C2-N2	7.26	122.74	116.20
1	N	1374	A	N1-C6-N6	7.26	122.96	118.60
1	N	1451	U	N3-C4-O4	7.26	124.49	119.40
1	N	1038	C	C5-C6-N1	7.26	124.63	121.00
1	N	194	C	O4'-C1'-N1	7.26	114.01	108.20
1	N	366	A	C5-C6-N6	-7.26	117.89	123.70
1	N	403	C	C5-C4-N4	-7.26	115.12	120.20
1	N	427	U	N3-C4-O4	7.26	124.48	119.40
1	N	910	C	C6-N1-C2	7.26	123.20	120.30
1	N	1368	A	C5-C6-N1	-7.26	114.07	117.70
1	N	1406	U	O4'-C1'-N1	7.26	114.01	108.20
1	N	1253	G	O4'-C1'-N9	7.26	114.01	108.20
1	N	92	U	N3-C2-O2	7.26	127.28	122.20
1	N	952	U	C2-N1-C1'	7.26	126.41	117.70
1	N	222	C	N3-C4-C5	-7.25	119.00	121.90
1	N	250	A	C5-C6-N1	-7.25	114.07	117.70
1	N	1288	A	C5-C6-N6	-7.25	117.90	123.70
1	N	1306	A	C5-C6-N1	-7.25	114.07	117.70
1	N	9	G	P-O3'-C3'	-7.25	111.00	119.70
1	N	1061	G	C5-N7-C8	-7.25	100.67	104.30
1	N	1097	C	O4'-C1'-N1	7.25	114.00	108.20
1	N	507	C	O4'-C1'-N1	7.25	114.00	108.20
1	N	1207	G	C5-C6-N1	-7.25	107.88	111.50
1	N	38	G	C6-C5-N7	-7.25	126.05	130.40
1	N	1000	A	P-O5'-C5'	7.25	132.50	120.90
1	N	751	U	C2-N3-C4	-7.25	122.65	127.00
1	N	802	A	C6-N1-C2	-7.25	114.25	118.60
1	N	1445	U	N1-C2-O2	-7.25	117.73	122.80
1	N	158	G	C5-C6-N1	-7.25	107.88	111.50
1	N	1330	U	N3-C4-C5	-7.25	110.25	114.60
1	N	109	A	N3-C4-C5	-7.24	121.73	126.80
1	N	150	U	O4'-C1'-N1	7.24	113.99	108.20
1	N	437	U	P-O3'-C3'	-7.24	111.01	119.70
1	N	925	G	N9-C4-C5	-7.24	102.50	105.40
1	N	1324	A	C6-C5-N7	-7.24	127.23	132.30
1	N	1417	G	P-O3'-C3'	-7.24	111.01	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	291	U	C5-C4-O4	-7.24	121.56	125.90
1	N	1447	A	P-O3'-C3'	7.24	128.38	119.70
1	N	312	C	N3-C4-N4	7.24	123.06	118.00
1	N	450	G	O4'-C1'-N9	7.24	113.99	108.20
1	N	560	A	C2-N3-C4	7.24	114.22	110.60
1	N	872	A	C4-C5-C6	7.24	120.62	117.00
1	N	146	G	C5-C6-N1	-7.23	107.88	111.50
1	N	503	C	C5-C4-N4	-7.23	115.14	120.20
1	N	1469	C	P-O5'-C5'	-7.23	109.33	120.90
1	N	416	G	C8-N9-C4	7.23	109.29	106.40
1	N	1141	C	C2-N3-C4	7.23	123.52	119.90
1	N	1155	A	N9-C4-C5	7.23	108.69	105.80
1	N	1481	U	O4'-C1'-N1	7.23	113.98	108.20
1	N	1482	G	N9-C4-C5	-7.23	102.51	105.40
1	N	925	G	O4'-C1'-N9	7.23	113.98	108.20
1	N	1210	C	C2-N3-C4	7.23	123.51	119.90
1	N	15	G	C6-C5-N7	-7.23	126.06	130.40
1	N	631	C	N3-C4-N4	7.23	123.06	118.00
1	N	740	U	N3-C4-C5	-7.23	110.26	114.60
1	N	1161	C	C5-C6-N1	7.23	124.61	121.00
1	N	1491	G	C5-N7-C8	7.23	107.91	104.30
1	N	342	C	N3-C4-C5	-7.23	119.01	121.90
1	N	728	A	C6-C5-N7	-7.23	127.24	132.30
1	N	97	G	N1-C6-O6	7.22	124.23	119.90
1	N	468	A	O4'-C1'-N9	7.22	113.98	108.20
1	N	512	U	C6-N1-C2	-7.22	116.67	121.00
1	N	769	G	C4-C5-C6	7.22	123.13	118.80
1	N	1217	C	C2-N3-C4	7.22	123.51	119.90
1	N	1236	A	C4'-C3'-C2'	7.22	109.83	102.60
1	N	477	C	C6-N1-C2	-7.22	117.41	120.30
1	N	1100	C	C2-N1-C1'	7.22	126.74	118.80
1	N	1384	C	N3-C2-O2	-7.22	116.84	121.90
1	N	22	G	N1-C2-N3	-7.22	119.57	123.90
1	N	684	U	O4'-C1'-N1	7.22	113.98	108.20
1	N	343	U	C6-N1-C2	-7.22	116.67	121.00
1	N	28	A	C2-N3-C4	-7.22	106.99	110.60
1	N	486	U	P-O5'-C5'	-7.22	109.35	120.90
1	N	804	U	P-O3'-C3'	-7.22	111.04	119.70
1	N	1031	C	C5-C4-N4	-7.22	115.15	120.20
1	N	192	A	C4-C5-C6	7.21	120.61	117.00
1	N	966	G	N1-C6-O6	7.21	124.23	119.90
1	N	1148	U	O4'-C1'-N1	7.21	113.97	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1268	G	N3-C2-N2	-7.21	114.85	119.90
1	N	1098	C	N3-C4-C5	-7.21	119.02	121.90
1	N	220	G	C5-N7-C8	-7.21	100.69	104.30
1	N	1201	A	C8-N9-C4	-7.21	102.92	105.80
1	N	1013	G	N1-C6-O6	7.21	124.22	119.90
1	N	1167	A	C5-N7-C8	7.21	107.50	103.90
1	N	1407	C	O4'-C1'-N1	7.21	113.97	108.20
1	N	1432	G	N7-C8-N9	7.21	116.70	113.10
1	N	6	G	C5-C6-O6	-7.21	124.28	128.60
1	N	768	A	C5-N7-C8	7.21	107.50	103.90
1	N	644	U	N1-C2-N3	-7.21	110.58	114.90
1	N	1400	C	C6-N1-C2	-7.21	117.42	120.30
1	N	449	G	C3'-C2'-C1'	7.20	107.26	101.50
1	N	1360	A	N1-C2-N3	7.20	132.90	129.30
1	N	518	C	N3-C4-N4	7.20	123.04	118.00
1	N	695	A	P-O3'-C3'	7.20	128.34	119.70
1	N	610	U	C2-N3-C4	7.20	131.32	127.00
1	N	859	G	O4'-C1'-N9	7.20	113.96	108.20
1	N	902	G	N9-C4-C5	-7.20	102.52	105.40
1	N	962	C	N3-C4-C5	-7.20	119.02	121.90
1	N	1417	G	C5-C6-O6	-7.20	124.28	128.60
1	N	1102	A	O4'-C1'-N9	7.20	113.96	108.20
1	N	1110	A	C2-N3-C4	7.20	114.20	110.60
1	N	406	G	N9-C4-C5	-7.20	102.52	105.40
1	N	998	C	C2-N3-C4	7.20	123.50	119.90
1	N	1018	G	N1-C2-N3	-7.19	119.58	123.90
1	N	213	G	N9-C4-C5	-7.19	102.52	105.40
1	N	1153	G	C5-N7-C8	-7.19	100.70	104.30
1	N	1340	A	P-O5'-C5'	7.19	132.41	120.90
1	N	77	A	C5'-C4'-O4'	7.19	117.72	109.10
1	N	1004	A	C5-C6-N6	-7.19	117.95	123.70
1	N	1201	A	C4-C5-C6	7.19	120.59	117.00
1	N	1331	G	C5-N7-C8	-7.19	100.71	104.30
1	N	910	C	O4'-C1'-N1	7.19	113.95	108.20
1	N	1363	A	C5'-C4'-C3'	-7.19	104.50	116.00
1	N	332	G	N3-C2-N2	7.18	124.93	119.90
1	N	345	C	N3-C4-N4	7.18	123.03	118.00
1	N	353	A	N3-C4-N9	7.18	133.15	127.40
1	N	449	G	P-O3'-C3'	-7.18	111.08	119.70
1	N	809	G	N3-C2-N2	7.18	124.93	119.90
1	N	912	C	C3'-C2'-C1'	7.18	107.25	101.50
1	N	934	C	O4'-C1'-N1	7.18	113.95	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1446	A	C5-C6-N6	-7.18	117.95	123.70
1	N	456	A	C4-C5-C6	7.18	120.59	117.00
1	N	761	G	C5-C6-O6	-7.18	124.29	128.60
1	N	962	C	C3'-C2'-C1'	-7.18	95.75	101.50
1	N	578	C	C2-N3-C4	7.18	123.49	119.90
1	N	42	G	C3'-C2'-C1'	-7.18	95.76	101.50
1	N	1057	G	N1-C2-N3	-7.18	119.59	123.90
1	N	1413	A	C4'-C3'-C2'	7.18	109.78	102.60
1	N	182	A	C5-C6-N6	-7.18	117.96	123.70
1	N	188	C	O4'-C1'-N1	7.18	113.94	108.20
1	N	1022	A	C4-C5-C6	7.18	120.59	117.00
1	N	96	U	N3-C4-C5	7.18	118.91	114.60
1	N	575	G	C2-N3-C4	7.18	115.49	111.90
1	N	964	A	C8-N9-C4	-7.18	102.93	105.80
1	N	1236	A	C5-C6-N6	-7.18	117.96	123.70
1	N	1069	C	C4-C5-C6	-7.17	113.81	117.40
1	N	322	C	C5-C6-N1	7.17	124.59	121.00
1	N	946	A	C1'-O4'-C4'	7.17	115.64	109.90
1	N	957	U	P-O3'-C3'	7.17	128.31	119.70
1	N	53	A	N7-C8-N9	-7.17	110.21	113.80
1	N	105	G	N7-C8-N9	-7.17	109.51	113.10
1	N	319	G	N3-C2-N2	7.17	124.92	119.90
1	N	377	G	C6-C5-N7	-7.17	126.10	130.40
1	N	460	A	C2-N3-C4	-7.17	107.02	110.60
1	N	566	G	C2-N3-C4	7.17	115.48	111.90
1	N	179	A	C4-N9-C1'	7.17	139.21	126.30
1	N	400	C	C1'-O4'-C4'	-7.17	104.17	109.90
1	N	689	C	N3-C4-C5	-7.17	119.03	121.90
1	N	1256	A	P-O3'-C3'	7.17	128.30	119.70
1	N	85	U	C5-C4-O4	-7.17	121.60	125.90
1	N	823	C	C6-N1-C2	-7.17	117.43	120.30
1	N	761	G	N9-C4-C5	-7.17	102.53	105.40
1	N	616	G	C6-C5-N7	-7.16	126.10	130.40
1	N	1146	A	C6-C5-N7	-7.16	127.28	132.30
1	N	1182	G	C8-N9-C4	-7.16	103.53	106.40
1	N	1213	A	C5-C6-N1	-7.16	114.12	117.70
1	N	1213	A	N3-C4-N9	7.16	133.13	127.40
1	N	893	C	C3'-C2'-C1'	7.16	107.23	101.50
1	N	231	U	P-O3'-C3'	7.16	128.29	119.70
1	N	1255	G	N3-C2-N2	7.16	124.91	119.90
1	N	1393	U	N1-C2-N3	-7.16	110.60	114.90
1	N	860	A	N1-C2-N3	-7.16	125.72	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	812	G	C4-C5-C6	7.16	123.09	118.80
1	N	815	A	P-O3'-C3'	7.16	128.29	119.70
1	N	976	G	C8-N9-C4	-7.16	103.54	106.40
1	N	1001	C	P-O5'-C5'	7.16	132.35	120.90
1	N	1324	A	C2-N3-C4	-7.16	107.02	110.60
1	N	1360	A	N3-C4-N9	7.16	133.12	127.40
1	N	1452	C	C2-N3-C4	7.16	123.48	119.90
1	N	1492	A	C8-N9-C4	-7.16	102.94	105.80
1	N	102	G	N7-C8-N9	7.15	116.68	113.10
1	N	985	C	C4-C5-C6	-7.15	113.82	117.40
1	N	493	A	N9-C4-C5	-7.15	102.94	105.80
1	N	777	A	C5'-C4'-O4'	7.15	117.68	109.10
1	N	857	C	O4'-C1'-C2'	-7.15	98.65	105.80
1	N	24	U	C5-C6-N1	-7.15	119.13	122.70
1	N	296	U	C5-C6-N1	7.15	126.27	122.70
1	N	1191	A	C4'-C3'-C2'	7.15	109.75	102.60
1	N	17	U	C3'-C2'-C1'	7.14	107.22	101.50
1	N	1333	A	C4-C5-N7	-7.14	107.13	110.70
1	N	1368	A	P-O3'-C3'	-7.14	111.13	119.70
1	N	339	C	C5-C6-N1	7.14	124.57	121.00
1	N	591	U	O4'-C1'-N1	7.14	113.91	108.20
1	N	752	G	C4-N9-C1'	-7.14	117.22	126.50
1	N	753	A	O4'-C1'-N9	7.14	113.91	108.20
1	N	1175	G	C5-C6-N1	-7.14	107.93	111.50
1	N	1530	G	N1-C2-N3	-7.14	119.61	123.90
1	N	288	A	C5-C6-N6	-7.14	117.99	123.70
1	N	1426	G	N3-C2-N2	7.14	124.90	119.90
1	N	133	U	O4'-C1'-N1	7.14	113.91	108.20
1	N	992	U	O4'-C1'-N1	7.14	113.91	108.20
1	N	1089	G	C5-C6-N1	-7.14	107.93	111.50
1	N	1236	A	C1'-O4'-C4'	7.14	115.61	109.90
1	N	362	G	C5-C6-O6	-7.13	124.32	128.60
1	N	519	C	C5'-C4'-C3'	-7.13	104.58	116.00
1	N	269	C	N3-C4-C5	-7.13	119.05	121.90
1	N	671	G	C8-N9-C4	7.13	109.25	106.40
1	N	410	G	C4-C5-N7	7.13	113.65	110.80
1	N	848	C	O4'-C1'-N1	7.13	113.90	108.20
1	N	240	G	N1-C2-N3	-7.13	119.62	123.90
1	N	410	G	N3-C2-N2	7.13	124.89	119.90
1	N	838	G	C2-N3-C4	-7.13	108.34	111.90
1	N	53	A	C5-C6-N1	-7.12	114.14	117.70
1	N	448	A	C5-C6-N1	-7.12	114.14	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	293	G	C5-N7-C8	7.12	107.86	104.30
1	N	461	A	N9-C1'-C2'	-7.12	104.16	112.00
1	N	932	C	O4'-C1'-N1	7.12	113.90	108.20
1	N	537	G	C5'-C4'-O4'	-7.12	100.56	109.10
1	N	589	U	O4'-C1'-N1	7.12	113.90	108.20
1	N	387	U	O4'-C1'-N1	7.12	113.90	108.20
1	N	728	A	O4'-C1'-N9	7.12	113.90	108.20
1	N	741	G	C5-C6-N1	-7.12	107.94	111.50
1	N	1518	A	O4'-C1'-N9	7.12	113.89	108.20
1	N	966	G	P-O3'-C3'	7.12	128.24	119.70
1	N	1310	G	N1-C6-O6	7.12	124.17	119.90
1	N	179	A	C8-N9-C1'	-7.12	114.89	127.70
1	N	320	A	C4-C5-C6	7.12	120.56	117.00
1	N	265	G	C8-N9-C4	7.11	109.25	106.40
1	N	449	G	C5-C6-O6	-7.11	124.33	128.60
1	N	1099	G	C8-N9-C4	-7.11	103.55	106.40
1	N	616	G	N9-C4-C5	7.11	108.25	105.40
1	N	1050	G	O4'-C1'-N9	7.11	113.89	108.20
1	N	166	U	C4-C5-C6	-7.11	115.43	119.70
1	N	1099	G	C5-C6-O6	-7.11	124.33	128.60
1	N	1154	G	N3-C2-N2	-7.11	114.92	119.90
1	N	239	U	N3-C4-O4	7.11	124.38	119.40
1	N	47	C	N3-C4-N4	7.11	122.98	118.00
1	N	432	A	N3-C4-C5	-7.11	121.82	126.80
1	N	596	A	C4-C5-C6	7.11	120.55	117.00
1	N	662	U	C5-C6-N1	7.11	126.25	122.70
1	N	1074	G	N1-C2-N2	-7.11	109.80	116.20
1	N	1304	G	C6-C5-N7	-7.11	126.14	130.40
1	N	118	U	N1-C2-N3	7.11	119.16	114.90
1	N	1062	U	C3'-C2'-C1'	7.10	107.18	101.50
1	N	714	G	P-O5'-C5'	7.10	132.26	120.90
1	N	1288	A	O4'-C1'-N9	7.10	113.88	108.20
1	N	1288	A	C5-C6-N1	-7.10	114.15	117.70
1	N	1503	A	C8-N9-C4	-7.10	102.96	105.80
1	N	709	U	C6-N1-C2	-7.10	116.74	121.00
1	N	1255	G	C5-C6-N1	-7.10	107.95	111.50
1	N	1336	C	C5-C6-N1	7.10	124.55	121.00
1	N	773	G	P-O3'-C3'	7.10	128.22	119.70
1	N	813	U	N3-C4-O4	7.10	124.37	119.40
1	N	874	G	N3-C4-N9	-7.10	121.74	126.00
1	N	799	G	N7-C8-N9	-7.10	109.55	113.10
1	N	124	C	C4-C5-C6	-7.09	113.85	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	167	A	N1-C6-N6	7.09	122.86	118.60
1	N	830	G	N7-C8-N9	-7.09	109.55	113.10
1	N	1131	G	N3-C4-C5	-7.09	125.05	128.60
1	N	1260	G	P-O3'-C3'	7.09	128.21	119.70
1	N	798	U	N3-C4-C5	-7.09	110.34	114.60
1	N	5	U	N3-C2-O2	7.09	127.16	122.20
1	N	132	C	O4'-C1'-N1	7.09	113.87	108.20
1	N	508	U	C6-N1-C2	-7.09	116.75	121.00
1	N	1171	A	C5-C6-N6	-7.09	118.03	123.70
1	N	1252	A	C8-N9-C4	-7.09	102.96	105.80
1	N	690	G	N1-C6-O6	7.09	124.15	119.90
1	N	772	U	O4'-C4'-C3'	-7.09	96.91	104.00
1	N	925	G	N3-C4-N9	7.09	130.25	126.00
1	N	1292	G	P-O3'-C3'	-7.09	111.19	119.70
1	N	1340	A	C5-C6-N1	-7.09	114.16	117.70
1	N	1476	A	N1-C2-N3	7.09	132.84	129.30
1	N	1492	A	C5-C6-N1	-7.09	114.16	117.70
1	N	468	A	N1-C6-N6	7.09	122.85	118.60
1	N	709	U	N1-C2-O2	-7.09	117.84	122.80
1	N	142	G	N7-C8-N9	7.09	116.64	113.10
1	N	964	A	C5-C6-N6	-7.09	118.03	123.70
1	N	595	A	C4-C5-N7	-7.08	107.16	110.70
1	N	742	G	C2-N3-C4	-7.08	108.36	111.90
1	N	1101	A	C5-C6-N1	-7.08	114.16	117.70
1	N	1237	C	N3-C4-N4	7.08	122.96	118.00
1	N	1281	C	C2-N3-C4	7.08	123.44	119.90
1	N	665	A	C3'-C2'-C1'	7.08	107.16	101.50
1	N	129	A	C6-N1-C2	-7.08	114.35	118.60
1	N	220	G	O4'-C1'-N9	7.08	113.86	108.20
1	N	314	C	C6-N1-C2	-7.08	117.47	120.30
1	N	633	G	C4-C5-N7	7.08	113.63	110.80
1	N	1482	G	C8-N9-C4	7.08	109.23	106.40
1	N	1036	A	C5-N7-C8	7.08	107.44	103.90
1	N	1322	C	C6-N1-C1'	-7.08	112.31	120.80
1	N	75	G	O4'-C1'-N9	7.07	113.86	108.20
1	N	274	A	C2-N3-C4	-7.07	107.06	110.60
1	N	948	C	C5'-C4'-O4'	7.07	117.59	109.10
1	N	1043	G	N3-C2-N2	7.07	124.85	119.90
1	N	992	U	N3-C4-O4	7.07	124.35	119.40
1	N	188	C	N3-C4-N4	7.07	122.95	118.00
1	N	757	U	O5'-C5'-C4'	-7.07	98.27	111.70
1	N	1049	U	C6-N1-C2	7.07	125.24	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1514	G	N7-C8-N9	7.07	116.64	113.10
1	N	461	A	C2-N3-C4	-7.07	107.07	110.60
1	N	1024	G	C5-C6-N1	-7.07	107.97	111.50
1	N	1332	A	C4-C5-N7	-7.07	107.17	110.70
1	N	466	A	C3'-C2'-C1'	7.06	107.15	101.50
1	N	621	A	C4-C5-C6	7.06	120.53	117.00
1	N	940	C	C6-N1-C2	-7.06	117.47	120.30
1	N	1477	U	N3-C4-C5	-7.06	110.36	114.60
1	N	181	A	C5-C6-N6	-7.06	118.05	123.70
1	N	400	C	N3-C4-N4	7.06	122.94	118.00
1	N	838	G	O4'-C1'-N9	7.06	113.85	108.20
1	N	1523	G	C6-N1-C2	-7.06	120.86	125.10
1	N	334	C	C5-C6-N1	7.06	124.53	121.00
1	N	839	C	O4'-C1'-N1	7.06	113.85	108.20
1	N	945	G	N7-C8-N9	7.06	116.63	113.10
1	N	1058	G	N3-C2-N2	7.06	124.84	119.90
1	N	1074	G	N1-C6-O6	7.06	124.14	119.90
1	N	1185	G	N7-C8-N9	7.06	116.63	113.10
1	N	1037	C	C2-N3-C4	7.06	123.43	119.90
1	N	150	U	N3-C2-O2	7.05	127.14	122.20
1	N	317	U	C5'-C4'-C3'	-7.05	104.71	116.00
1	N	1157	A	N9-C4-C5	-7.05	102.98	105.80
1	N	1259	C	C2-N3-C4	7.05	123.43	119.90
1	N	1365	G	C5-C6-N1	-7.05	107.97	111.50
1	N	30	U	C3'-C2'-C1'	7.05	107.14	101.50
1	N	1296	C	P-O3'-C3'	7.05	128.16	119.70
1	N	381	C	C4-C5-C6	7.05	120.92	117.40
1	N	612	C	N3-C4-N4	7.05	122.94	118.00
1	N	987	G	O4'-C1'-N9	7.05	113.84	108.20
1	N	820	U	P-O3'-C3'	7.05	128.16	119.70
1	N	815	A	C4-C5-C6	7.05	120.52	117.00
1	N	1134	G	N1-C2-N3	-7.05	119.67	123.90
1	N	404	G	N1-C2-N3	-7.05	119.67	123.90
1	N	1012	A	N1-C6-N6	7.05	122.83	118.60
1	N	201	G	C3'-C2'-C1'	7.04	107.13	101.50
1	N	442	G	N1-C2-N3	-7.04	119.67	123.90
1	N	483	C	C4-C5-C6	7.04	120.92	117.40
1	N	786	G	C8-N9-C4	7.04	109.22	106.40
1	N	1307	U	N3-C4-C5	-7.04	110.37	114.60
1	N	786	G	N7-C8-N9	-7.04	109.58	113.10
1	N	929	G	N1-C6-O6	7.04	124.12	119.90
1	N	1119	C	O4'-C1'-N1	7.04	113.83	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	609	A	C5-C6-N6	-7.04	118.07	123.70
1	N	924	C	N3-C4-N4	7.04	122.93	118.00
1	N	1498	U	C6-N1-C2	7.04	125.22	121.00
1	N	832	G	N7-C8-N9	-7.04	109.58	113.10
1	N	886	G	C5-C6-N1	-7.04	107.98	111.50
1	N	1095	U	C5-C4-O4	7.04	130.12	125.90
1	N	1295	U	C4-C5-C6	7.04	123.92	119.70
1	N	1495	U	O4'-C1'-N1	7.04	113.83	108.20
1	N	117	G	N3-C2-N2	7.03	124.82	119.90
1	N	205	A	C5-N7-C8	7.03	107.42	103.90
1	N	1002	G	C6-N1-C2	7.03	129.32	125.10
1	N	1358	U	N1-C1'-C2'	7.03	123.14	114.00
1	N	219	U	O4'-C1'-N1	7.03	113.83	108.20
1	N	1375	A	C6-C5-N7	-7.03	127.38	132.30
1	N	310	G	C6-C5-N7	-7.03	126.18	130.40
1	N	604	G	C2-N3-C4	-7.03	108.39	111.90
1	N	1041	G	O4'-C1'-N9	7.03	113.83	108.20
1	N	1081	A	C6-N1-C2	7.03	122.82	118.60
1	N	1413	A	C4-C5-N7	-7.03	107.19	110.70
1	N	73	C	N3-C4-C5	-7.03	119.09	121.90
1	N	502	A	C6-C5-N7	-7.03	127.38	132.30
1	N	369	G	N3-C4-N9	7.03	130.22	126.00
1	N	852	G	N1-C6-O6	7.03	124.12	119.90
1	N	892	A	N1-C2-N3	7.03	132.81	129.30
1	N	1395	C	C5-C4-N4	-7.03	115.28	120.20
1	N	1495	U	C5-C6-N1	7.03	126.21	122.70
1	N	940	C	O4'-C1'-N1	7.03	113.82	108.20
1	N	1206	G	C4-C5-C6	7.03	123.02	118.80
1	N	1318	A	C3'-C2'-C1'	7.03	107.12	101.50
1	N	281	G	N3-C2-N2	7.02	124.82	119.90
1	N	1191	A	C4-C5-N7	-7.02	107.19	110.70
1	N	387	U	C2-N3-C4	7.02	131.21	127.00
1	N	238	A	C4-C5-N7	-7.02	107.19	110.70
1	N	359	G	N3-C2-N2	7.02	124.81	119.90
1	N	411	A	N1-C2-N3	-7.02	125.79	129.30
1	N	619	U	C4-C5-C6	7.02	123.91	119.70
1	N	235	C	N3-C4-C5	-7.02	119.09	121.90
1	N	313	A	C5-N7-C8	-7.02	100.39	103.90
1	N	721	G	P-O3'-C3'	7.02	128.12	119.70
1	N	1446	A	C4-C5-C6	7.02	120.51	117.00
1	N	136	C	N3-C4-N4	7.01	122.91	118.00
1	N	258	G	C5-C6-O6	-7.01	124.39	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	333	U	N3-C2-O2	-7.01	117.29	122.20
1	N	1330	U	C5-C4-O4	7.01	130.11	125.90
1	N	511	C	C2'-C3'-O3'	7.01	124.92	109.50
1	N	530	G	C2-N3-C4	7.01	115.41	111.90
1	N	977	A	C5-N7-C8	7.01	107.41	103.90
1	N	1245	C	N3-C4-C5	-7.01	119.10	121.90
1	N	1294	G	C6-C5-N7	-7.01	126.19	130.40
1	N	271	C	N3-C4-N4	7.01	122.91	118.00
1	N	665	A	O4'-C1'-N9	7.01	113.81	108.20
1	N	729	A	O4'-C4'-C3'	-7.01	96.99	104.00
1	N	1380	U	C2-N3-C4	-7.01	122.79	127.00
1	N	240	G	N3-C4-C5	-7.00	125.10	128.60
1	N	150	U	C2-N3-C4	-7.00	122.80	127.00
1	N	522	C	P-O5'-C5'	7.00	132.10	120.90
1	N	1184	G	N3-C2-N2	7.00	124.80	119.90
1	N	1253	G	N1-C2-N3	-7.00	119.70	123.90
1	N	635	A	C8-N9-C4	-7.00	103.00	105.80
1	N	1033	G	C5-C6-O6	-7.00	124.40	128.60
1	N	195	A	C5-C6-N6	-7.00	118.10	123.70
1	N	453	G	C4-C5-N7	7.00	113.60	110.80
1	N	907	A	N1-C6-N6	7.00	122.80	118.60
1	N	953	G	O4'-C1'-N9	7.00	113.80	108.20
1	N	991	U	C2-N3-C4	-7.00	122.80	127.00
1	N	331	G	C4-C5-C6	7.00	123.00	118.80
1	N	439	U	N3-C4-O4	7.00	124.30	119.40
1	N	479	U	P-O5'-C5'	7.00	132.10	120.90
1	N	529	G	O4'-C1'-N9	7.00	113.80	108.20
1	N	1219	A	O4'-C1'-N9	7.00	113.80	108.20
1	N	1247	U	C2-N3-C4	-7.00	122.80	127.00
1	N	59	A	P-O3'-C3'	7.00	128.10	119.70
1	N	666	G	C2-N3-C4	7.00	115.40	111.90
1	N	1010	U	C4'-C3'-C2'	-7.00	95.60	102.60
1	N	1179	A	C6-N1-C2	7.00	122.80	118.60
1	N	1499	A	O4'-C1'-N9	7.00	113.80	108.20
1	N	154	U	N3-C2-O2	7.00	127.10	122.20
1	N	550	G	C5-C6-O6	-6.99	124.40	128.60
1	N	858	G	N3-C2-N2	6.99	124.80	119.90
1	N	1353	G	C5-C6-N1	-6.99	108.00	111.50
1	N	669	G	C4-C5-N7	6.99	113.60	110.80
1	N	1013	G	N1-C2-N2	6.99	122.49	116.20
1	N	1015	G	N1-C6-O6	6.99	124.09	119.90
1	N	1524	C	C6-N1-C2	-6.99	117.50	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	352	C	C3'-C2'-C1'	6.99	107.09	101.50
1	N	521	G	N1-C2-N3	-6.99	119.71	123.90
1	N	839	C	C4-C5-C6	6.99	120.89	117.40
1	N	1236	A	O5'-C5'-C4'	-6.99	98.43	111.70
1	N	329	A	N7-C8-N9	6.98	117.29	113.80
1	N	52	C	O4'-C1'-N1	6.98	113.78	108.20
1	N	334	C	N3-C4-N4	6.98	122.89	118.00
1	N	462	G	N3-C4-C5	-6.98	125.11	128.60
1	N	1034	G	N1-C6-O6	6.98	124.09	119.90
1	N	655	A	C4-C5-N7	6.98	114.19	110.70
1	N	705	G	C5-C6-N1	-6.98	108.01	111.50
1	N	715	A	C4'-C3'-C2'	-6.98	95.62	102.60
1	N	954	G	C2-N3-C4	-6.98	108.41	111.90
1	N	1248	A	N3-C4-C5	-6.98	121.91	126.80
1	N	1523	G	C8-N9-C1'	6.98	136.07	127.00
1	N	492	C	N3-C4-N4	6.98	122.88	118.00
1	N	816	A	C4'-C3'-C2'	6.98	109.58	102.60
1	N	843	U	C6-N1-C1'	-6.98	111.43	121.20
1	N	335	C	N3-C4-N4	6.98	122.88	118.00
1	N	475	C	N3-C4-C5	-6.98	119.11	121.90
1	N	90	C	P-O3'-C3'	6.97	128.07	119.70
1	N	510	A	C6-N1-C2	-6.97	114.42	118.60
1	N	1333	A	C5-N7-C8	6.97	107.39	103.90
1	N	1436	U	P-O5'-C5'	-6.97	109.74	120.90
1	N	332	G	C2-N3-C4	-6.97	108.41	111.90
1	N	873	A	O5'-C5'-C4'	6.97	124.95	111.70
1	N	1335	U	P-O3'-C3'	6.97	128.07	119.70
1	N	1403	C	N3-C4-N4	6.97	122.88	118.00
1	N	696	A	C8-N9-C4	-6.97	103.01	105.80
1	N	956	U	C4'-C3'-C2'	-6.97	95.63	102.60
1	N	364	A	O4'-C1'-N9	6.97	113.78	108.20
1	N	494	G	C5-N7-C8	-6.97	100.81	104.30
1	N	896	C	C2-N3-C4	-6.97	116.42	119.90
1	N	1299	A	N7-C8-N9	-6.97	110.32	113.80
1	N	1199	U	N3-C4-C5	-6.97	110.42	114.60
1	N	1476	A	C4-C5-C6	6.97	120.48	117.00
1	N	115	G	N3-C4-C5	6.96	132.08	128.60
1	N	911	U	N3-C4-O4	6.96	124.27	119.40
1	N	1415	G	C4-C5-N7	-6.96	108.02	110.80
1	N	1469	C	N3-C2-O2	6.96	126.77	121.90
1	N	709	U	P-O5'-C5'	6.96	132.03	120.90
1	N	984	C	C4-C5-C6	6.96	120.88	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1434	A	C4-C5-N7	-6.96	107.22	110.70
1	N	1270	G	C4-C5-N7	6.96	113.58	110.80
1	N	1299	A	O4'-C1'-N9	6.96	113.77	108.20
1	N	306	A	C1'-O4'-C4'	6.96	115.47	109.90
1	N	1206	G	N1-C2-N3	-6.96	119.73	123.90
1	N	403	C	N1-C2-N3	-6.96	114.33	119.20
1	N	940	C	N3-C4-C5	-6.96	119.12	121.90
1	N	1066	C	N1-C2-N3	-6.96	114.33	119.20
1	N	1072	G	P-O3'-C3'	6.96	128.05	119.70
1	N	1307	U	N3-C4-O4	6.96	124.27	119.40
1	N	1419	G	O4'-C1'-N9	6.96	113.76	108.20
1	N	130	A	N1-C2-N3	6.95	132.78	129.30
1	N	460	A	P-O5'-C5'	6.95	132.03	120.90
1	N	1101	A	C5-N7-C8	6.95	107.38	103.90
1	N	1120	C	C5-C6-N1	6.95	124.48	121.00
1	N	1428	A	N7-C8-N9	-6.95	110.32	113.80
1	N	1006	G	O4'-C1'-N9	6.95	113.76	108.20
1	N	1038	C	C4'-C3'-C2'	-6.95	95.65	102.60
1	N	1061	G	N3-C2-N2	6.95	124.76	119.90
1	N	1131	G	C4'-C3'-C2'	-6.95	95.65	102.60
1	N	1488	G	C5-N7-C8	6.95	107.77	104.30
1	N	960	U	C1'-O4'-C4'	-6.95	104.34	109.90
1	N	1398	A	P-O3'-C3'	-6.95	111.36	119.70
1	N	4	U	C5'-C4'-C3'	-6.95	104.89	116.00
1	N	226	G	N7-C8-N9	6.95	116.57	113.10
1	N	292	G	C6-N1-C2	6.95	129.27	125.10
1	N	993	G	C4-C5-C6	6.95	122.97	118.80
1	N	1036	A	C2-N3-C4	-6.95	107.13	110.60
1	N	1331	G	C4'-C3'-C2'	-6.94	95.66	102.60
1	N	1448	C	N3-C4-C5	-6.94	119.12	121.90
1	N	218	U	C5'-C4'-O4'	6.94	117.43	109.10
1	N	539	A	C8-N9-C4	-6.94	103.02	105.80
1	N	554	A	C5-C6-N1	-6.94	114.23	117.70
1	N	743	A	C4-C5-N7	-6.94	107.23	110.70
1	N	781	A	C5-N7-C8	6.94	107.37	103.90
1	N	1168	U	C5'-C4'-O4'	6.94	117.43	109.10
1	N	1231	G	C4'-C3'-C2'	-6.94	95.66	102.60
1	N	483	C	O4'-C1'-N1	6.94	113.75	108.20
1	N	681	A	C4-C5-C6	6.94	120.47	117.00
1	N	920	U	C4-C5-C6	-6.94	115.54	119.70
1	N	1514	G	C6-N1-C2	6.94	129.26	125.10
1	N	311	C	C5-C4-N4	-6.94	115.34	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	650	G	N1-C6-O6	6.94	124.06	119.90
1	N	1059	C	C4-C5-C6	-6.94	113.93	117.40
1	N	1423	G	O4'-C1'-N9	6.94	113.75	108.20
1	N	239	U	C5-C6-N1	6.93	126.17	122.70
1	N	297	G	C5-N7-C8	6.93	107.77	104.30
1	N	511	C	C1'-O4'-C4'	-6.93	104.35	109.90
1	N	515	G	C6-C5-N7	-6.93	126.24	130.40
1	N	1213	A	C4-C5-C6	6.93	120.47	117.00
1	N	209	U	C2-N1-C1'	-6.93	109.38	117.70
1	N	1352	C	C4'-C3'-C2'	-6.93	95.67	102.60
1	N	198	G	N1-C6-O6	6.93	124.06	119.90
1	N	604	G	OP1-P-OP2	-6.93	109.20	119.60
1	N	1041	G	N3-C2-N2	6.93	124.75	119.90
1	N	413	G	C8-N9-C1'	-6.93	117.99	127.00
1	N	929	G	N1-C2-N3	-6.93	119.74	123.90
1	N	1217	C	N3-C4-C5	-6.93	119.13	121.90
1	N	1160	G	N7-C8-N9	-6.93	109.64	113.10
1	N	126	G	P-O3'-C3'	6.93	128.01	119.70
1	N	632	U	C6-N1-C2	-6.93	116.84	121.00
1	N	1054	C	C5-C4-N4	-6.93	115.35	120.20
1	N	1473	G	N3-C4-C5	6.93	132.06	128.60
1	N	566	G	C5-C6-O6	-6.92	124.44	128.60
1	N	701	U	C5'-C4'-O4'	6.92	117.41	109.10
1	N	909	A	C4'-C3'-C2'	-6.92	95.67	102.60
1	N	1053	G	C2-N3-C4	6.92	115.36	111.90
1	N	1475	G	C6-N1-C2	6.92	129.25	125.10
1	N	746	A	O4'-C4'-C3'	-6.92	97.08	104.00
1	N	1266	G	C5-C6-N1	-6.92	108.04	111.50
1	N	321	A	C1'-O4'-C4'	6.92	115.44	109.90
1	N	391	G	C5-C6-N1	-6.92	108.04	111.50
1	N	725	G	N3-C2-N2	6.92	124.75	119.90
1	N	1199	U	N3-C4-O4	6.92	124.25	119.40
1	N	1313	U	O4'-C1'-N1	6.92	113.74	108.20
1	N	454	G	C5-C6-N1	-6.92	108.04	111.50
1	N	1239	A	P-O3'-C3'	6.92	128.00	119.70
1	N	120	A	C2-N3-C4	6.92	114.06	110.60
1	N	1131	G	C2-N3-C4	6.92	115.36	111.90
1	N	1329	A	C8-N9-C4	-6.92	103.03	105.80
1	N	930	C	N3-C4-C5	-6.92	119.13	121.90
1	N	939	G	N1-C6-O6	6.92	124.05	119.90
1	N	2	A	C5-C6-N1	-6.92	114.24	117.70
1	N	19	A	C6-C5-N7	-6.91	127.46	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	704	A	C2-N3-C4	6.91	114.06	110.60
1	N	907	A	N3-C4-C5	-6.91	121.96	126.80
1	N	40	C	P-O3'-C3'	6.91	127.99	119.70
1	N	467	U	C2-N1-C1'	6.91	125.99	117.70
1	N	1176	A	C5-N7-C8	6.91	107.36	103.90
1	N	1375	A	C5-N7-C8	6.91	107.36	103.90
1	N	1425	U	C2-N3-C4	-6.91	122.86	127.00
1	N	829	G	C4-C5-N7	6.91	113.56	110.80
1	N	31	G	O4'-C1'-N9	6.91	113.72	108.20
1	N	404	G	P-O3'-C3'	-6.91	111.41	119.70
1	N	1249	C	N3-C4-N4	6.91	122.83	118.00
1	N	695	A	N9-C4-C5	6.90	108.56	105.80
1	N	590	U	O4'-C1'-N1	6.90	113.72	108.20
1	N	293	G	C5-C6-N1	-6.90	108.05	111.50
1	N	360	G	N1-C2-N2	-6.90	109.99	116.20
1	N	699	C	O4'-C1'-N1	6.90	113.72	108.20
1	N	993	G	C2-N3-C4	-6.90	108.45	111.90
1	N	1062	U	N3-C2-O2	-6.90	117.37	122.20
1	N	1498	U	C3'-C2'-C1'	6.90	107.02	101.50
1	N	44	A	C4'-C3'-C2'	-6.90	95.70	102.60
1	N	131	A	N7-C8-N9	-6.90	110.35	113.80
1	N	1500	A	C5'-C4'-C3'	6.90	127.04	116.00
1	N	1318	A	C4-C5-N7	-6.90	107.25	110.70
1	N	227	G	C2-N3-C4	6.89	115.35	111.90
1	N	328	C	N1-C2-O2	-6.89	114.76	118.90
1	N	715	A	N1-C2-N3	-6.89	125.85	129.30
1	N	966	G	C5-C6-O6	-6.89	124.46	128.60
1	N	1014	A	C4-C5-C6	6.89	120.45	117.00
1	N	1417	G	C8-N9-C4	-6.89	103.64	106.40
1	N	793	U	C2-N1-C1'	6.89	125.97	117.70
1	N	991	U	N1-C2-N3	6.89	119.03	114.90
1	N	1400	C	C2-N3-C4	-6.89	116.45	119.90
1	N	513	C	N3-C4-C5	-6.89	119.14	121.90
1	N	1400	C	C5-C6-N1	6.89	124.44	121.00
1	N	494	G	C4-C5-C6	6.89	122.93	118.80
1	N	488	C	N3-C4-N4	6.89	122.82	118.00
1	N	507	C	P-O3'-C3'	6.89	127.96	119.70
1	N	902	G	P-O3'-C3'	6.89	127.97	119.70
1	N	1384	C	N3-C4-C5	-6.89	119.15	121.90
1	N	56	U	C4-C5-C6	6.88	123.83	119.70
1	N	148	G	N9-C1'-C2'	-6.88	104.43	112.00
1	N	320	A	C6-C5-N7	-6.88	127.48	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	361	G	N1-C2-N3	-6.88	119.77	123.90
1	N	798	U	C5'-C4'-C3'	6.88	127.01	116.00
1	N	1122	U	O4'-C1'-N1	6.88	113.71	108.20
1	N	1124	G	C4-C5-C6	6.88	122.93	118.80
1	N	479	U	N3-C2-O2	-6.88	117.38	122.20
1	N	858	G	C3'-C2'-C1'	-6.88	95.99	101.50
1	N	241	G	C5-N7-C8	-6.88	100.86	104.30
1	N	823	C	P-O3'-C3'	6.88	127.96	119.70
1	N	926	G	C5-N7-C8	6.88	107.74	104.30
1	N	1421	G	O4'-C1'-N9	6.88	113.70	108.20
1	N	64	G	C5-C6-O6	-6.88	124.47	128.60
1	N	470	C	C4-C5-C6	6.88	120.84	117.40
1	N	680	C	N3-C4-N4	6.88	122.81	118.00
1	N	882	C	O4'-C1'-N1	6.88	113.70	108.20
1	N	271	C	C6-N1-C1'	-6.88	112.55	120.80
1	N	342	C	C5-C6-N1	6.88	124.44	121.00
1	N	461	A	C5-C6-N1	-6.88	114.26	117.70
1	N	6	G	O4'-C1'-N9	6.87	113.70	108.20
1	N	523	A	N3-C4-C5	-6.87	121.99	126.80
1	N	609	A	N3-C4-C5	-6.87	121.99	126.80
1	N	942	G	N7-C8-N9	6.87	116.54	113.10
1	N	121	U	P-O3'-C3'	-6.87	111.46	119.70
1	N	277	C	C5-C6-N1	6.87	124.44	121.00
1	N	550	G	C4'-C3'-C2'	-6.87	95.73	102.60
1	N	275	G	C5-N7-C8	-6.87	100.87	104.30
1	N	548	G	N3-C4-N9	6.87	130.12	126.00
1	N	584	G	C4-C5-N7	-6.87	108.05	110.80
1	N	970	C	C5-C4-N4	-6.87	115.39	120.20
1	N	1304	G	P-O3'-C3'	6.87	127.94	119.70
1	N	895	G	N1-C6-O6	6.87	124.02	119.90
1	N	309	A	C5-C6-N1	-6.87	114.27	117.70
1	N	1011	C	P-O5'-C5'	6.87	131.89	120.90
1	N	1045	C	C6-N1-C1'	-6.87	112.56	120.80
1	N	251	G	C5'-C4'-C3'	6.86	126.98	116.00
1	N	677	U	C1'-O4'-C4'	6.86	115.39	109.90
1	N	68	G	C4-C5-N7	-6.86	108.06	110.80
1	N	836	G	C5'-C4'-O4'	6.86	117.33	109.10
1	N	719	C	N1-C2-O2	6.86	123.02	118.90
1	N	914	A	C8-N9-C4	-6.86	103.06	105.80
1	N	494	G	C4-N9-C1'	6.86	135.42	126.50
1	N	62	U	P-O5'-C5'	6.86	131.87	120.90
1	N	666	G	O4'-C1'-N9	6.86	113.69	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	374	A	C6-N1-C2	6.86	122.71	118.60
1	N	576	C	O4'-C1'-N1	6.86	113.69	108.20
1	N	639	G	N9-C4-C5	-6.86	102.66	105.40
1	N	978	A	N1-C2-N3	-6.85	125.87	129.30
1	N	1494	G	C8-N9-C4	-6.85	103.66	106.40
1	N	303	A	C5-C6-N6	-6.85	118.22	123.70
1	N	660	C	C4-C5-C6	6.85	120.83	117.40
1	N	683	G	P-O3'-C3'	6.85	127.92	119.70
1	N	1204	A	C5-N7-C8	-6.85	100.47	103.90
1	N	1478	U	N1-C2-O2	-6.85	118.00	122.80
1	N	577	G	P-O5'-C5'	-6.85	109.94	120.90
1	N	1379	G	N1-C2-N3	-6.85	119.79	123.90
1	N	5	U	C6-N1-C2	6.85	125.11	121.00
1	N	508	U	C2-N3-C4	-6.85	122.89	127.00
1	N	17	U	C5-C6-N1	6.85	126.12	122.70
1	N	151	A	N9-C4-C5	6.85	108.54	105.80
1	N	1385	G	C8-N9-C4	-6.85	103.66	106.40
1	N	1502	A	C5-C6-N6	-6.85	118.22	123.70
1	N	45	G	C5-C6-N1	-6.84	108.08	111.50
1	N	480	U	C5-C6-N1	6.84	126.12	122.70
1	N	890	G	C1'-O4'-C4'	-6.84	104.42	109.90
1	N	377	G	O4'-C1'-N9	6.84	113.67	108.20
1	N	701	U	C2-N3-C4	-6.84	122.89	127.00
1	N	1261	A	C4'-C3'-C2'	-6.84	95.76	102.60
1	N	1314	C	O4'-C4'-C3'	-6.84	97.16	104.00
1	N	1383	C	C6-N1-C1'	-6.84	112.59	120.80
1	N	136	C	N3-C4-C5	-6.84	119.16	121.90
1	N	155	A	O4'-C1'-N9	6.84	113.67	108.20
1	N	496	A	N7-C8-N9	-6.84	110.38	113.80
1	N	759	A	O4'-C1'-N9	6.84	113.67	108.20
1	N	1160	G	C8-N9-C4	6.84	109.14	106.40
1	N	1202	U	C3'-C2'-C1'	6.84	106.97	101.50
1	N	1496	C	O4'-C1'-N1	6.84	113.67	108.20
1	N	235	C	N3-C4-N4	6.84	122.79	118.00
1	N	557	G	C2-N3-C4	6.84	115.32	111.90
1	N	1112	C	C6-N1-C2	-6.84	117.56	120.30
1	N	994	A	N3-C4-C5	-6.84	122.01	126.80
1	N	1494	G	C5-C6-N1	-6.84	108.08	111.50
1	N	203	G	C4-C5-N7	-6.83	108.07	110.80
1	N	301	G	C2-N3-C4	-6.83	108.48	111.90
1	N	735	C	O4'-C1'-N1	6.83	113.67	108.20
1	N	1014	A	C4-C5-N7	-6.83	107.28	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1191	A	P-O5'-C5'	6.83	131.84	120.90
1	N	196	A	C5-C6-N1	-6.83	114.28	117.70
1	N	390	U	N3-C4-O4	6.83	124.18	119.40
1	N	403	C	C6-N1-C1'	-6.83	112.60	120.80
1	N	1363	A	C8-N9-C4	-6.83	103.07	105.80
1	N	311	C	N3-C4-C5	-6.83	119.17	121.90
1	N	794	A	C6-C5-N7	-6.83	127.52	132.30
1	N	832	G	N3-C4-C5	-6.83	125.18	128.60
1	N	160	A	O4'-C1'-N9	6.83	113.66	108.20
1	N	222	C	N1-C2-N3	-6.83	114.42	119.20
1	N	326	G	N3-C4-C5	-6.83	125.19	128.60
1	N	430	A	C4-C5-C6	6.83	120.41	117.00
1	N	660	C	C4'-C3'-C2'	-6.83	95.77	102.60
1	N	766	A	C4-C5-N7	-6.83	107.28	110.70
1	N	327	A	C2-N3-C4	6.83	114.01	110.60
1	N	903	G	C6-N1-C2	6.83	129.20	125.10
1	N	1107	C	N1-C1'-C2'	-6.83	104.49	112.00
1	N	1275	A	C5-C6-N6	6.83	129.16	123.70
1	N	1241	G	N1-C2-N2	-6.83	110.06	116.20
1	N	1334	G	C8-N9-C4	-6.83	103.67	106.40
1	N	66	A	C4-C5-C6	6.82	120.41	117.00
1	N	218	U	N1-C2-O2	6.82	127.58	122.80
1	N	818	G	N1-C6-O6	6.82	124.00	119.90
1	N	1328	C	C6-N1-C2	-6.82	117.57	120.30
1	N	229	U	N3-C4-O4	-6.82	114.63	119.40
1	N	348	G	O4'-C1'-N9	6.82	113.66	108.20
1	N	1103	C	C2-N1-C1'	6.82	126.30	118.80
1	N	798	U	C4'-C3'-C2'	6.82	109.42	102.60
1	N	881	G	N9-C4-C5	-6.82	102.67	105.40
1	N	1002	G	C5-C6-O6	-6.82	124.51	128.60
1	N	1072	G	O4'-C1'-N9	6.82	113.65	108.20
1	N	1273	C	C5-C6-N1	6.82	124.41	121.00
1	N	1275	A	P-O3'-C3'	-6.82	111.52	119.70
1	N	1514	G	N1-C2-N3	-6.82	119.81	123.90
1	N	1515	G	C5-C6-N1	-6.82	108.09	111.50
1	N	445	G	C1'-O4'-C4'	6.82	115.35	109.90
1	N	823	C	C4-C5-C6	6.82	120.81	117.40
1	N	1353	G	N1-C2-N3	-6.82	119.81	123.90
1	N	630	A	O4'-C1'-N9	6.81	113.65	108.20
1	N	1022	A	C5-N7-C8	6.81	107.31	103.90
1	N	1058	G	C6-C5-N7	-6.81	126.31	130.40
1	N	1244	G	C5-C6-N1	-6.81	108.09	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1349	A	P-O3'-C3'	-6.81	111.52	119.70
1	N	1349	A	N9-C4-C5	6.81	108.53	105.80
1	N	1224	U	C5-C6-N1	6.81	126.11	122.70
1	N	176	C	C3'-C2'-C1'	-6.81	96.05	101.50
1	N	229	U	N1-C2-O2	6.81	127.57	122.80
1	N	243	A	N1-C2-N3	-6.81	125.90	129.30
1	N	1176	A	C2-N3-C4	-6.81	107.20	110.60
1	N	1395	C	N1-C2-N3	6.81	123.96	119.20
1	N	76	G	C4-N9-C1'	6.80	135.35	126.50
1	N	436	C	C5-C4-N4	-6.80	115.44	120.20
1	N	555	U	N3-C4-O4	6.80	124.16	119.40
1	N	1105	A	C6-C5-N7	-6.80	127.54	132.30
1	N	1120	C	C2-N3-C4	6.80	123.30	119.90
1	N	641	U	C2-N1-C1'	-6.80	109.54	117.70
1	N	732	C	C2-N3-C4	6.80	123.30	119.90
1	N	179	A	C6-C5-N7	-6.80	127.54	132.30
1	N	1076	U	C5-C4-O4	-6.80	121.82	125.90
1	N	1299	A	N3-C4-N9	6.80	132.84	127.40
1	N	141	G	O4'-C1'-N9	6.80	113.64	108.20
1	N	587	G	N3-C2-N2	6.80	124.66	119.90
1	N	713	G	C4-C5-C6	-6.80	114.72	118.80
1	N	1019	A	O4'-C1'-N9	6.80	113.64	108.20
1	N	1116	U	N3-C2-O2	6.80	126.96	122.20
1	N	747	A	N7-C8-N9	-6.80	110.40	113.80
1	N	824	G	N3-C4-N9	-6.80	121.92	126.00
1	N	891	U	C4-C5-C6	-6.80	115.62	119.70
1	N	1049	U	N1-C2-N3	-6.80	110.82	114.90
1	N	1480	A	O4'-C1'-N9	6.79	113.63	108.20
1	N	633	G	C5-C6-N1	6.79	114.89	111.50
1	N	1403	C	C2-N3-C4	6.79	123.29	119.90
1	N	489	C	N3-C4-N4	6.79	122.75	118.00
1	N	1148	U	C2-N3-C4	-6.79	122.93	127.00
1	N	1448	C	O4'-C4'-C3'	-6.79	97.21	104.00
1	N	168	G	C6-C5-N7	-6.79	126.33	130.40
1	N	905	U	C6-N1-C2	-6.79	116.93	121.00
1	N	1009	U	O4'-C1'-N1	6.79	113.63	108.20
1	N	1234	C	O4'-C1'-N1	6.78	113.62	108.20
1	N	408	A	O4'-C1'-N9	6.78	113.62	108.20
1	N	588	G	C4-C5-N7	6.78	113.51	110.80
1	N	731	G	O4'-C4'-C3'	-6.78	97.22	104.00
1	N	941	G	C8-N9-C4	-6.78	103.69	106.40
1	N	352	C	N1-C2-O2	6.78	122.97	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	483	C	C6-N1-C2	-6.78	117.59	120.30
1	N	825	A	N7-C8-N9	-6.78	110.41	113.80
1	N	874	G	C6-C5-N7	-6.78	126.33	130.40
1	N	182	A	C2-N3-C4	-6.78	107.21	110.60
1	N	459	A	C5-C6-N6	-6.78	118.28	123.70
1	N	978	A	C5-C6-N6	-6.78	118.28	123.70
1	N	1416	G	O4'-C1'-N9	6.78	113.62	108.20
1	N	655	A	C2-N3-C4	-6.77	107.21	110.60
1	N	1006	G	N1-C2-N3	-6.77	119.83	123.90
1	N	1103	C	N3-C4-N4	6.77	122.74	118.00
1	N	1180	A	O4'-C1'-C2'	6.77	113.70	107.60
1	N	149	A	C8-N9-C4	-6.77	103.09	105.80
1	N	393	A	C8-N9-C4	-6.77	103.09	105.80
1	N	578	C	N1-C1'-C2'	-6.77	104.55	112.00
1	N	765	G	C6-C5-N7	-6.77	126.34	130.40
1	N	1015	G	N1-C2-N3	-6.77	119.84	123.90
1	N	744	C	O4'-C1'-N1	-6.77	102.78	108.20
1	N	1330	U	P-O5'-C5'	6.77	131.73	120.90
1	N	1401	G	N3-C2-N2	6.77	124.64	119.90
1	N	258	G	N9-C4-C5	-6.77	102.69	105.40
1	N	292	G	N3-C2-N2	6.77	124.64	119.90
1	N	576	C	N3-C4-C5	-6.77	119.19	121.90
1	N	1132	C	N3-C4-C5	-6.77	119.19	121.90
1	N	1265	C	C4'-C3'-C2'	-6.77	95.83	102.60
1	N	268	U	P-O5'-C5'	6.77	131.73	120.90
1	N	1101	A	C6-N1-C2	6.77	122.66	118.60
1	N	50	A	C5-C6-N1	-6.77	114.32	117.70
1	N	523	A	C6-C5-N7	-6.77	127.56	132.30
1	N	690	G	P-O5'-C5'	6.77	131.72	120.90
1	N	416	G	C2-N3-C4	-6.76	108.52	111.90
1	N	444	G	O4'-C1'-N9	6.76	113.61	108.20
1	N	710	G	N1-C2-N3	-6.76	119.84	123.90
1	N	993	G	C4'-C3'-C2'	-6.76	95.83	102.60
1	N	274	A	C6-C5-N7	-6.76	127.57	132.30
1	N	766	A	C5-N7-C8	6.76	107.28	103.90
1	N	832	G	C4'-C3'-C2'	-6.76	95.84	102.60
1	N	1006	G	C4-C5-N7	6.76	113.50	110.80
1	N	1534	A	C2-N3-C4	6.76	113.98	110.60
1	N	96	U	P-O5'-C5'	6.76	131.72	120.90
1	N	406	G	C8-N9-C4	6.76	109.10	106.40
1	N	736	C	C5-C4-N4	-6.76	115.47	120.20
1	N	950	U	P-O5'-C5'	6.76	131.72	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1067	A	N7-C8-N9	6.76	117.18	113.80
1	N	1271	A	C4-C5-N7	-6.76	107.32	110.70
1	N	484	G	N3-C2-N2	6.76	124.63	119.90
1	N	864	A	N9-C4-C5	6.76	108.50	105.80
1	N	993	G	C6-C5-N7	-6.76	126.35	130.40
1	N	1162	C	O4'-C1'-N1	6.76	113.61	108.20
1	N	1185	G	C6-N1-C2	6.76	129.15	125.10
1	N	1479	C	C5-C4-N4	-6.76	115.47	120.20
1	N	420	U	OP1-P-OP2	-6.75	109.47	119.60
1	N	1386	G	C6-N1-C2	6.75	129.15	125.10
1	N	8	A	C5-C6-N1	-6.75	114.32	117.70
1	N	564	C	C5-C4-N4	-6.75	115.47	120.20
1	N	867	G	C4-C5-C6	6.75	122.85	118.80
1	N	941	G	C2'-C3'-O3'	6.75	124.50	113.70
1	N	644	U	N1-C2-O2	-6.75	118.08	122.80
1	N	763	G	N1-C6-O6	6.75	123.95	119.90
1	N	882	C	N3-C4-C5	-6.75	119.20	121.90
1	N	1174	G	N1-C6-O6	6.75	123.95	119.90
1	N	1349	A	C5-C6-N6	-6.75	118.30	123.70
1	N	31	G	C5'-C4'-O4'	6.75	117.20	109.10
1	N	342	C	C3'-C2'-C1'	6.75	106.90	101.50
1	N	358	U	N3-C4-O4	6.75	124.12	119.40
1	N	1029	U	O4'-C4'-C3'	-6.75	97.25	104.00
1	N	692	U	P-O5'-C5'	-6.75	110.11	120.90
1	N	693	G	O4'-C1'-N9	6.75	113.60	108.20
1	N	1151	A	C8-N9-C4	6.75	108.50	105.80
1	N	31	G	C6-N1-C2	-6.75	121.05	125.10
1	N	189	A	C4-C5-C6	6.75	120.37	117.00
1	N	294	U	P-O3'-C3'	-6.74	111.61	119.70
1	N	467	U	N1-C2-O2	-6.74	118.08	122.80
1	N	1174	G	N3-C4-C5	-6.74	125.23	128.60
1	N	1198	G	C5-C6-N1	-6.74	108.13	111.50
1	N	1241	G	N1-C2-N3	-6.74	119.85	123.90
1	N	683	G	C2-N3-C4	-6.74	108.53	111.90
1	N	771	G	O3'-P-O5'	-6.74	91.19	104.00
1	N	1085	U	O4'-C1'-N1	6.74	113.59	108.20
1	N	212	G	N1-C6-O6	6.74	123.94	119.90
1	N	381	C	P-O3'-C3'	6.74	127.79	119.70
1	N	659	U	O4'-C1'-N1	6.74	113.59	108.20
1	N	839	C	N3-C4-C5	-6.74	119.20	121.90
1	N	1018	G	N7-C8-N9	6.74	116.47	113.10
1	N	1154	G	C5-C6-N1	-6.74	108.13	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	481	G	O4'-C4'-C3'	-6.74	97.26	104.00
1	N	829	G	N3-C2-N2	6.74	124.62	119.90
1	N	542	G	N3-C4-C5	6.74	131.97	128.60
1	N	635	A	N9-C4-C5	6.74	108.49	105.80
1	N	916	U	O4'-C1'-N1	6.74	113.59	108.20
1	N	945	G	C4-C5-N7	6.74	113.50	110.80
1	N	1022	A	O4'-C1'-N9	6.74	113.59	108.20
1	N	1500	A	C6-C5-N7	-6.74	127.58	132.30
1	N	17	U	C2-N3-C4	-6.73	122.96	127.00
1	N	873	A	N1-C6-N6	6.73	122.64	118.60
1	N	15	G	N1-C2-N3	-6.73	119.86	123.90
1	N	68	G	C2-N3-C4	-6.73	108.53	111.90
1	N	181	A	C2-N3-C4	-6.73	107.23	110.60
1	N	286	C	C3'-C2'-C1'	-6.73	96.12	101.50
1	N	749	A	C8-N9-C4	6.73	108.49	105.80
1	N	928	G	O4'-C1'-N9	6.73	113.58	108.20
1	N	1080	A	C4-C5-N7	-6.73	107.33	110.70
1	N	1431	A	O4'-C1'-N9	6.73	113.58	108.20
1	N	1350	A	O4'-C1'-N9	6.73	113.58	108.20
1	N	551	U	C6-N1-C2	-6.73	116.96	121.00
1	N	631	C	N1-C2-O2	6.73	122.94	118.90
1	N	849	G	N3-C2-N2	6.73	124.61	119.90
1	N	1011	C	C5-C6-N1	-6.73	117.64	121.00
1	N	1223	C	N3-C4-C5	-6.73	119.21	121.90
1	N	6	G	N9-C4-C5	6.72	108.09	105.40
1	N	299	G	C3'-C2'-C1'	6.72	106.88	101.50
1	N	488	C	O4'-C4'-C3'	-6.72	97.28	104.00
1	N	551	U	N3-C4-O4	6.72	124.11	119.40
1	N	843	U	N1-C2-N3	-6.72	110.86	114.90
1	N	273	U	C4-C5-C6	-6.72	115.67	119.70
1	N	635	A	P-O3'-C3'	6.72	127.77	119.70
1	N	771	G	C4-C5-C6	6.72	122.83	118.80
1	N	1012	A	C6-N1-C2	6.72	122.63	118.60
1	N	90	C	C2-N3-C4	6.72	123.26	119.90
1	N	546	A	C6-C5-N7	-6.72	127.60	132.30
1	N	475	C	N3-C4-N4	6.72	122.70	118.00
1	N	1475	G	C6-C5-N7	-6.72	126.37	130.40
1	N	331	G	N1-C2-N3	-6.72	119.87	123.90
1	N	525	C	C5-C4-N4	-6.72	115.50	120.20
1	N	873	A	N1-C2-N3	6.72	132.66	129.30
1	N	960	U	P-O3'-C3'	6.72	127.76	119.70
1	N	1087	G	O4'-C1'-N9	6.72	113.57	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1406	U	N3-C2-O2	-6.72	117.50	122.20
1	N	1531	A	P-O3'-C3'	6.72	127.76	119.70
1	N	671	G	P-O5'-C5'	-6.71	110.16	120.90
1	N	860	A	P-O5'-C5'	6.71	131.64	120.90
1	N	1074	G	C8-N9-C4	-6.71	103.71	106.40
1	N	1431	A	N7-C8-N9	-6.71	110.44	113.80
1	N	208	U	N1-C2-N3	-6.71	110.87	114.90
1	N	361	G	C8-N9-C1'	6.71	135.72	127.00
1	N	442	G	N1-C6-O6	6.71	123.93	119.90
1	N	1282	C	N3-C4-N4	6.71	122.70	118.00
1	N	1374	A	C1'-O4'-C4'	6.71	115.27	109.90
1	N	532	A	C4-C5-C6	6.71	120.36	117.00
1	N	954	G	N1-C2-N2	-6.71	110.16	116.20
1	N	393	A	O4'-C1'-N9	6.71	113.57	108.20
1	N	452	A	N1-C2-N3	-6.71	125.95	129.30
1	N	542	G	N1-C2-N3	-6.71	119.88	123.90
1	N	1367	C	O4'-C1'-N1	6.71	113.56	108.20
1	N	196	A	C2-N3-C4	-6.70	107.25	110.60
1	N	382	A	C6-N1-C2	-6.70	114.58	118.60
1	N	566	G	C5-N7-C8	-6.70	100.95	104.30
1	N	1381	U	N1-C2-N3	-6.70	110.88	114.90
1	N	1388	C	O4'-C4'-C3'	-6.70	97.30	104.00
1	N	343	U	P-O5'-C5'	6.70	131.62	120.90
1	N	783	C	N3-C4-N4	6.70	122.69	118.00
1	N	1260	G	N9-C4-C5	6.70	108.08	105.40
1	N	101	A	P-O5'-C5'	6.70	131.62	120.90
1	N	325	A	N1-C2-N3	-6.70	125.95	129.30
1	N	210	C	C5-C6-N1	6.70	124.35	121.00
1	N	777	A	C5-C6-N6	-6.70	118.34	123.70
1	N	1271	A	N1-C2-N3	6.70	132.65	129.30
1	N	1434	A	N7-C8-N9	6.70	117.15	113.80
1	N	64	G	C4-C5-C6	6.69	122.81	118.80
1	N	410	G	O4'-C1'-N9	6.69	113.55	108.20
1	N	479	U	C5'-C4'-O4'	6.69	117.13	109.10
1	N	919	A	N3-C4-N9	-6.69	122.05	127.40
1	N	1480	A	C5-C6-N1	-6.69	114.35	117.70
1	N	178	C	N3-C2-O2	6.69	126.58	121.90
1	N	325	A	C8-N9-C4	-6.69	103.12	105.80
1	N	427	U	N3-C4-C5	-6.69	110.59	114.60
1	N	697	U	P-O3'-C3'	-6.69	111.67	119.70
1	N	712	A	N3-C4-C5	-6.69	122.12	126.80
1	N	75	G	P-O5'-C5'	-6.69	110.20	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	98	A	C4-C5-C6	6.69	120.34	117.00
1	N	337	G	C2-N3-C4	-6.69	108.56	111.90
1	N	967	C	C4-C5-C6	6.69	120.74	117.40
1	N	1097	C	C2-N1-C1'	6.69	126.16	118.80
1	N	428	G	C2-N3-C4	-6.69	108.56	111.90
1	N	1279	G	C8-N9-C4	6.69	109.07	106.40
1	N	90	C	C5-C4-N4	-6.68	115.52	120.20
1	N	423	G	C5-N7-C8	6.68	107.64	104.30
1	N	781	A	C5-C6-N1	-6.68	114.36	117.70
1	N	865	A	N1-C2-N3	6.68	132.64	129.30
1	N	890	G	N7-C8-N9	-6.68	109.76	113.10
1	N	1069	C	N1-C2-O2	6.68	122.91	118.90
1	N	1199	U	O4'-C1'-N1	6.68	113.55	108.20
1	N	1325	C	P-O3'-C3'	-6.68	111.68	119.70
1	N	1378	C	C4-C5-C6	6.68	120.74	117.40
1	N	1465	A	N1-C6-N6	6.68	122.61	118.60
1	N	917	G	C8-N9-C1'	-6.68	118.31	127.00
1	N	1343	G	P-O3'-C3'	-6.68	111.68	119.70
1	N	1399	C	C6-N1-C2	-6.68	117.63	120.30
1	N	199	A	P-O5'-C5'	6.68	131.59	120.90
1	N	277	C	C5-C4-N4	6.68	124.88	120.20
1	N	486	U	C2-N3-C4	6.68	131.01	127.00
1	N	502	A	C3'-C2'-C1'	-6.68	96.16	101.50
1	N	527	G	C1'-O4'-C4'	6.68	115.24	109.90
1	N	674	G	N7-C8-N9	-6.68	109.76	113.10
1	N	1300	G	C5-N7-C8	-6.68	100.96	104.30
1	N	1457	G	O4'-C1'-N9	6.68	113.54	108.20
1	N	606	G	P-O5'-C5'	-6.68	110.22	120.90
1	N	1138	G	C2-N3-C4	-6.68	108.56	111.90
1	N	41	G	N9-C4-C5	6.68	108.07	105.40
1	N	321	A	C5-C6-N6	-6.68	118.36	123.70
1	N	970	C	C2-N1-C1'	6.68	126.14	118.80
1	N	994	A	C6-C5-N7	-6.68	127.63	132.30
1	N	1353	G	O4'-C1'-N9	6.68	113.54	108.20
1	N	97	G	C6-C5-N7	-6.67	126.40	130.40
1	N	147	G	C5-C6-N1	-6.67	108.16	111.50
1	N	308	C	N1-C2-O2	6.67	122.91	118.90
1	N	681	A	C6-N1-C2	6.67	122.60	118.60
1	N	973	G	C5-C6-O6	-6.67	124.60	128.60
1	N	1101	A	C4'-C3'-C2'	6.67	109.27	102.60
1	N	1094	G	N9-C1'-C2'	6.67	122.68	114.00
1	N	401	C	O4'-C1'-N1	6.67	113.54	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	748	G	C1'-O4'-C4'	6.67	115.24	109.90
1	N	752	G	N1-C2-N3	-6.67	119.90	123.90
1	N	1159	U	N3-C2-O2	6.67	126.87	122.20
1	N	1203	C	P-O3'-C3'	6.67	127.71	119.70
1	N	806	C	C5-C6-N1	-6.67	117.67	121.00
1	N	1091	U	N3-C4-C5	-6.67	110.60	114.60
1	N	51	A	O4'-C1'-N9	6.67	113.53	108.20
1	N	433	G	N7-C8-N9	-6.67	109.77	113.10
1	N	682	G	OP1-P-OP2	-6.67	109.60	119.60
1	N	900	A	C5-C6-N6	-6.67	118.37	123.70
1	N	903	G	C6-C5-N7	-6.67	126.40	130.40
1	N	1151	A	N9-C4-C5	6.67	108.47	105.80
1	N	1171	A	C6-N1-C2	6.66	122.60	118.60
1	N	302	G	C8-N9-C4	6.66	109.06	106.40
1	N	740	U	C4-C5-C6	6.66	123.70	119.70
1	N	1371	G	O4'-C1'-N9	6.66	113.53	108.20
1	N	1041	G	O3'-P-O5'	-6.66	91.35	104.00
1	N	1457	G	N1-C2-N3	-6.66	119.91	123.90
1	N	1473	G	C8-N9-C4	6.66	109.06	106.40
1	N	55	A	N1-C2-N3	6.66	132.63	129.30
1	N	1141	C	C4-C5-C6	6.66	120.73	117.40
1	N	594	U	C1'-O4'-C4'	6.65	115.22	109.90
1	N	846	G	N1-C2-N3	-6.65	119.91	123.90
1	N	1058	G	C5-C6-O6	-6.65	124.61	128.60
1	N	356	A	C4-C5-C6	6.65	120.33	117.00
1	N	540	G	C4'-C3'-C2'	-6.65	95.95	102.60
1	N	1376	U	C4'-C3'-C2'	-6.65	95.95	102.60
1	N	331	G	C5-C6-N1	-6.65	108.18	111.50
1	N	494	G	C6-N1-C2	6.65	129.09	125.10
1	N	263	A	C4-C5-C6	6.64	120.32	117.00
1	N	103	U	O4'-C1'-N1	6.64	113.51	108.20
1	N	417	G	N3-C4-N9	6.64	129.99	126.00
1	N	669	G	P-O5'-C5'	6.64	131.53	120.90
1	N	865	A	C5-C6-N1	-6.64	114.38	117.70
1	N	498	A	N7-C8-N9	6.64	117.12	113.80
1	N	1113	C	N3-C4-N4	6.64	122.65	118.00
1	N	1322	C	C6-N1-C2	-6.64	117.64	120.30
1	N	584	G	N3-C4-N9	-6.64	122.02	126.00
1	N	710	G	O4'-C1'-N9	6.64	113.51	108.20
1	N	1026	G	O4'-C4'-C3'	-6.64	97.36	104.00
1	N	111	G	N3-C2-N2	6.64	124.55	119.90
1	N	152	A	C4-C5-C6	6.64	120.32	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	354	G	C4-C5-C6	6.64	122.78	118.80
1	N	426	U	P-O3'-C3'	6.64	127.67	119.70
1	N	925	G	N3-C2-N2	6.64	124.55	119.90
1	N	953	G	N1-C2-N3	-6.64	119.92	123.90
1	N	116	A	C5-C6-N6	-6.63	118.39	123.70
1	N	508	U	N1-C2-N3	6.63	118.88	114.90
1	N	1314	C	N3-C4-C5	-6.63	119.25	121.90
1	N	1471	U	C5'-C4'-C3'	6.63	126.61	116.00
1	N	377	G	C4-C5-N7	6.63	113.45	110.80
1	N	462	G	N1-C6-O6	6.63	123.88	119.90
1	N	604	G	N3-C4-N9	-6.63	122.02	126.00
1	N	1003	G	N1-C2-N3	-6.63	119.92	123.90
1	N	1201	A	C3'-C2'-C1'	6.63	106.81	101.50
1	N	635	A	C5-N7-C8	6.63	107.22	103.90
1	N	843	U	P-O3'-C3'	-6.63	111.74	119.70
1	N	938	A	C4-C5-N7	6.63	114.02	110.70
1	N	1316	G	P-O3'-C3'	6.63	127.66	119.70
1	N	474	G	O4'-C1'-N9	6.63	113.50	108.20
1	N	695	A	C5-C6-N1	-6.63	114.39	117.70
1	N	719	C	O4'-C4'-C3'	-6.63	97.37	104.00
1	N	860	A	N3-C4-C5	6.63	131.44	126.80
1	N	1428	A	C4-C5-C6	6.63	120.31	117.00
1	N	1532	U	C2-N3-C4	-6.63	123.02	127.00
1	N	429	U	N3-C4-O4	6.63	124.04	119.40
1	N	465	A	C4-C5-C6	6.63	120.31	117.00
1	N	703	G	N1-C6-O6	6.63	123.88	119.90
1	N	1524	C	C5-C6-N1	6.63	124.31	121.00
1	N	331	G	O5'-P-OP1	6.62	118.65	110.70
1	N	430	A	N7-C8-N9	-6.62	110.49	113.80
1	N	919	A	N7-C8-N9	6.62	117.11	113.80
1	N	954	G	N9-C4-C5	6.62	108.05	105.40
1	N	267	C	C5-C6-N1	6.62	124.31	121.00
1	N	399	G	C4-N9-C1'	-6.62	117.89	126.50
1	N	1009	U	C5-C4-O4	6.62	129.87	125.90
1	N	1057	G	C2-N3-C4	6.62	115.21	111.90
1	N	1138	G	N1-C2-N2	-6.62	110.24	116.20
1	N	1186	G	N3-C4-N9	-6.62	122.03	126.00
1	N	1290	G	C6-C5-N7	-6.62	126.43	130.40
1	N	1293	C	N3-C4-N4	6.62	122.64	118.00
1	N	438	U	O4'-C1'-N1	6.62	113.50	108.20
1	N	618	C	C2-N3-C4	6.62	123.21	119.90
1	N	705	G	C6-N1-C2	6.62	129.07	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1019	A	C5'-C4'-O4'	6.62	117.04	109.10
1	N	383	A	N1-C6-N6	6.62	122.57	118.60
1	N	435	A	N1-C2-N3	6.62	132.61	129.30
1	N	497	G	N3-C2-N2	6.62	124.53	119.90
1	N	263	A	C5-C6-N1	-6.62	114.39	117.70
1	N	376	G	C4-C5-N7	6.62	113.45	110.80
1	N	338	A	C4-C5-C6	6.62	120.31	117.00
1	N	341	C	C4-C5-C6	-6.62	114.09	117.40
1	N	422	C	C2-N3-C4	6.62	123.21	119.90
1	N	650	G	C4-C5-C6	6.62	122.77	118.80
1	N	724	G	N1-C2-N3	-6.62	119.93	123.90
1	N	1185	G	N1-C2-N2	6.62	122.15	116.20
1	N	1349	A	C5-C6-N1	-6.62	114.39	117.70
1	N	1450	U	P-O3'-C3'	6.62	127.64	119.70
1	N	236	A	O4'-C1'-N9	6.61	113.49	108.20
1	N	464	U	C2-N3-C4	-6.61	123.03	127.00
1	N	141	G	C5'-C4'-O4'	6.61	117.03	109.10
1	N	899	C	C6-N1-C2	-6.61	117.66	120.30
1	N	1007	U	N3-C4-C5	-6.61	110.63	114.60
1	N	228	A	C5-C6-N1	-6.61	114.39	117.70
1	N	465	A	O4'-C4'-C3'	-6.61	97.39	104.00
1	N	168	G	C2-N3-C4	-6.61	108.60	111.90
1	N	577	G	O4'-C1'-N9	6.61	113.49	108.20
1	N	829	G	N3-C4-C5	-6.61	125.30	128.60
1	N	991	U	C5-C4-O4	-6.61	121.94	125.90
1	N	1174	G	N3-C4-N9	6.61	129.97	126.00
1	N	1461	G	C4-C5-N7	-6.61	108.16	110.80
1	N	306	A	C3'-C2'-C1'	6.61	106.78	101.50
1	N	1457	G	N3-C2-N2	6.60	124.52	119.90
1	N	84	U	C1'-O4'-C4'	-6.60	104.62	109.90
1	N	1235	U	N3-C4-O4	6.60	124.02	119.40
1	N	1124	G	O4'-C4'-C3'	-6.60	97.40	104.00
1	N	580	C	N3-C2-O2	6.60	126.52	121.90
1	N	597	G	O4'-C1'-N9	6.60	113.48	108.20
1	N	698	G	N3-C4-C5	-6.60	125.30	128.60
1	N	749	A	N1-C2-N3	6.60	132.60	129.30
1	N	1193	G	N1-C2-N3	-6.60	119.94	123.90
1	N	1262	C	C4'-C3'-C2'	-6.60	96.00	102.60
1	N	103	U	C2-N1-C1'	6.60	125.62	117.70
1	N	455	G	C6-C5-N7	-6.60	126.44	130.40
1	N	1236	A	C6-N1-C2	6.60	122.56	118.60
1	N	908	A	C4'-C3'-C2'	-6.60	96.00	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1040	U	C1'-O4'-C4'	6.60	115.18	109.90
1	N	1120	C	P-O3'-C3'	-6.60	111.78	119.70
1	N	76	G	O4'-C1'-N9	6.59	113.48	108.20
1	N	318	G	N9-C4-C5	-6.59	102.76	105.40
1	N	409	U	C5-C6-N1	6.59	126.00	122.70
1	N	714	G	C8-N9-C4	-6.59	103.76	106.40
1	N	1183	U	N3-C4-O4	6.59	124.02	119.40
1	N	216	U	N3-C4-O4	6.59	124.02	119.40
1	N	853	C	P-O5'-C5'	-6.59	110.35	120.90
1	N	996	A	N1-C2-N3	-6.59	126.00	129.30
1	N	71	A	P-O3'-C3'	6.59	127.61	119.70
1	N	871	U	N1-C2-N3	-6.59	110.94	114.90
1	N	1222	G	N9-C4-C5	-6.59	102.76	105.40
1	N	1237	C	C5-C4-N4	-6.59	115.59	120.20
1	N	1359	C	O4'-C1'-N1	6.59	113.47	108.20
1	N	116	A	C5-C6-N1	-6.59	114.41	117.70
1	N	153	C	O4'-C1'-N1	6.59	113.47	108.20
1	N	640	A	C8-N9-C4	-6.59	103.16	105.80
1	N	837	U	C2-N3-C4	-6.59	123.05	127.00
1	N	1040	U	N1-C2-N3	-6.59	110.95	114.90
1	N	28	A	C5-C6-N6	-6.59	118.43	123.70
1	N	1221	G	C6-C5-N7	-6.59	126.45	130.40
1	N	18	C	C5'-C4'-C3'	6.59	126.54	116.00
1	N	98	A	O4'-C1'-N9	6.59	113.47	108.20
1	N	156	C	N1-C2-O2	-6.59	114.95	118.90
1	N	347	G	C6-N1-C2	6.59	129.05	125.10
1	N	655	A	C6-C5-N7	-6.59	127.69	132.30
1	N	1046	A	C4'-C3'-C2'	-6.59	96.01	102.60
1	N	1118	U	O4'-C4'-C3'	-6.59	97.41	104.00
1	N	1189	U	C2-N3-C4	-6.59	123.05	127.00
1	N	1428	A	C6-N1-C2	6.59	122.55	118.60
1	N	172	A	C6-N1-C2	-6.58	114.65	118.60
1	N	480	U	O4'-C1'-N1	6.58	113.47	108.20
1	N	1501	C	N3-C4-N4	6.58	122.61	118.00
1	N	498	A	C6-N1-C2	-6.58	114.65	118.60
1	N	900	A	C5-N7-C8	6.58	107.19	103.90
1	N	1054	C	N3-C2-O2	-6.58	117.29	121.90
1	N	1288	A	C4-C5-C6	6.58	120.29	117.00
1	N	693	G	C3'-C2'-C1'	6.58	106.76	101.50
1	N	737	C	C5-C6-N1	6.58	124.29	121.00
1	N	22	G	C6-C5-N7	-6.58	126.45	130.40
1	N	256	U	N3-C4-O4	6.58	124.01	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	199	A	C5-C6-N6	-6.58	118.44	123.70
1	N	558	G	O4'-C1'-N9	6.58	113.46	108.20
1	N	884	U	C1'-O4'-C4'	-6.58	104.64	109.90
1	N	1230	C	N3-C4-N4	6.58	122.61	118.00
1	N	1457	G	C5-C6-N1	-6.58	108.21	111.50
1	N	108	G	N3-C2-N2	6.58	124.50	119.90
1	N	391	G	N1-C2-N3	-6.58	119.95	123.90
1	N	1066	C	C3'-C2'-C1'	6.58	106.76	101.50
1	N	113	G	O4'-C1'-N9	6.58	113.46	108.20
1	N	319	G	C5-C6-N1	-6.58	108.21	111.50
1	N	1050	G	C4-C5-N7	6.58	113.43	110.80
1	N	843	U	C1'-O4'-C4'	-6.57	104.64	109.90
1	N	845	A	C5'-C4'-O4'	6.57	116.99	109.10
1	N	1402	C	C5-C4-N4	-6.57	115.60	120.20
1	N	63	C	P-O3'-C3'	6.57	127.59	119.70
1	N	105	G	P-O5'-C5'	6.57	131.42	120.90
1	N	447	G	P-O5'-C5'	6.57	131.42	120.90
1	N	978	A	C6-N1-C2	6.57	122.54	118.60
1	N	345	C	C6-N1-C2	-6.57	117.67	120.30
1	N	547	A	C5-C6-N6	-6.57	118.44	123.70
1	N	581	G	N3-C2-N2	6.57	124.50	119.90
1	N	621	A	C6-C5-N7	-6.57	127.70	132.30
1	N	1243	C	C5-C4-N4	-6.57	115.60	120.20
1	N	1252	A	N3-C4-C5	-6.57	122.20	126.80
1	N	1365	G	O4'-C1'-N9	6.57	113.46	108.20
1	N	1380	U	P-O3'-C3'	6.57	127.58	119.70
1	N	1387	G	C4-C5-C6	6.57	122.74	118.80
1	N	1501	C	C5-C4-N4	-6.57	115.60	120.20
1	N	939	G	N1-C2-N3	-6.57	119.96	123.90
1	N	867	G	N1-C2-N2	6.57	122.11	116.20
1	N	966	G	N3-C4-N9	6.57	129.94	126.00
1	N	1389	C	N1-C2-O2	6.57	122.84	118.90
1	N	813	U	N1-C2-N3	-6.56	110.96	114.90
1	N	425	G	N3-C4-C5	6.56	131.88	128.60
1	N	1334	G	C2-N3-C4	-6.56	108.62	111.90
1	N	47	C	C5-C6-N1	6.56	124.28	121.00
1	N	919	A	N3-C4-C5	6.56	131.39	126.80
1	N	1238	A	O4'-C1'-N9	6.56	113.45	108.20
1	N	228	A	C5-C6-N6	-6.56	118.45	123.70
1	N	159	G	C4-C5-N7	6.55	113.42	110.80
1	N	201	G	N7-C8-N9	-6.55	109.82	113.10
1	N	773	G	O4'-C4'-C3'	-6.55	97.44	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1370	G	C5-C6-N1	-6.55	108.22	111.50
1	N	764	C	C2-N3-C4	6.55	123.18	119.90
1	N	240	G	C6-C5-N7	-6.55	126.47	130.40
1	N	894	G	C8-N9-C4	-6.55	103.78	106.40
1	N	225	C	C6-N1-C2	-6.55	117.68	120.30
1	N	287	U	C6-N1-C2	-6.55	117.07	121.00
1	N	331	G	N3-C4-C5	-6.55	125.33	128.60
1	N	507	C	N3-C4-C5	-6.55	119.28	121.90
1	N	694	A	C5'-C4'-C3'	6.55	126.48	116.00
1	N	1301	U	C6-N1-C2	-6.55	117.07	121.00
1	N	687	A	C6-C5-N7	-6.55	127.72	132.30
1	N	14	U	C5'-C4'-O4'	6.55	116.96	109.10
1	N	404	G	N7-C8-N9	-6.55	109.83	113.10
1	N	1470	U	N3-C4-C5	-6.55	110.67	114.60
1	N	1181	G	C6-N1-C2	6.54	129.03	125.10
1	N	1210	C	C4-C5-C6	-6.54	114.13	117.40
1	N	1398	A	O4'-C1'-N9	6.54	113.44	108.20
1	N	965	U	C5-C4-O4	6.54	129.83	125.90
1	N	1502	A	N3-C4-N9	-6.54	122.17	127.40
1	N	1523	G	C4-N9-C1'	-6.54	118.00	126.50
1	N	280	C	P-O3'-C3'	6.54	127.55	119.70
1	N	1530	G	C8-N9-C4	6.54	109.02	106.40
1	N	702	A	C4-C5-C6	6.54	120.27	117.00
1	N	1048	G	N9-C4-C5	-6.54	102.78	105.40
1	N	624	C	C2-N3-C4	6.54	123.17	119.90
1	N	639	G	C3'-C2'-C1'	-6.54	96.27	101.50
1	N	1143	G	C4-C5-N7	6.54	113.42	110.80
1	N	7	A	C5-C6-N1	-6.54	114.43	117.70
1	N	815	A	C5-C6-N6	-6.54	118.47	123.70
1	N	50	A	C6-C5-N7	-6.54	127.72	132.30
1	N	482	A	C5-C6-N6	-6.54	118.47	123.70
1	N	709	U	N3-C4-O4	6.54	123.97	119.40
1	N	903	G	N3-C2-N2	6.54	124.47	119.90
1	N	1115	U	N1-C2-O2	-6.54	118.22	122.80
1	N	1247	U	C5'-C4'-O4'	-6.54	101.26	109.10
1	N	524	G	C1'-O4'-C4'	6.53	115.13	109.90
1	N	807	A	C5-C6-N6	-6.53	118.47	123.70
1	N	890	G	C4'-C3'-C2'	-6.53	96.07	102.60
1	N	893	C	C2-N3-C4	6.53	123.17	119.90
1	N	991	U	N3-C4-O4	6.53	123.97	119.40
1	N	1373	G	P-O3'-C3'	6.53	127.54	119.70
1	N	367	U	C2-N3-C4	6.53	130.92	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	179	A	O4'-C4'-C3'	-6.53	97.47	104.00
1	N	380	G	C4'-C3'-C2'	-6.53	96.07	102.60
1	N	417	G	P-O3'-C3'	-6.53	111.86	119.70
1	N	1140	C	P-O3'-C3'	6.53	127.54	119.70
1	N	182	A	C1'-O4'-C4'	6.53	115.12	109.90
1	N	564	C	N3-C4-N4	6.53	122.57	118.00
1	N	189	A	C4'-C3'-C2'	-6.53	96.07	102.60
1	N	466	A	C4-C5-C6	6.53	120.26	117.00
1	N	522	C	C5-C4-N4	-6.53	115.63	120.20
1	N	1081	A	C5-C6-N1	-6.53	114.44	117.70
1	N	604	G	O4'-C1'-N9	6.53	113.42	108.20
1	N	624	C	N3-C4-N4	6.53	122.57	118.00
1	N	1094	G	C8-N9-C1'	6.53	135.48	127.00
1	N	1457	G	C8-N9-C4	-6.53	103.79	106.40
1	N	151	A	O4'-C1'-N9	6.52	113.42	108.20
1	N	744	C	N3-C4-N4	6.52	122.57	118.00
1	N	1089	G	C6-C5-N7	-6.52	126.48	130.40
1	N	1227	A	P-O5'-C5'	-6.52	110.46	120.90
1	N	112	G	N9-C1'-C2'	-6.52	104.83	112.00
1	N	258	G	N3-C2-N2	6.52	124.47	119.90
1	N	596	A	N1-C6-N6	6.52	122.51	118.60
1	N	1339	A	P-O3'-C3'	6.52	127.53	119.70
1	N	234	C	C4-C5-C6	-6.52	114.14	117.40
1	N	419	C	C4-C5-C6	6.52	120.66	117.40
1	N	484	G	N3-C4-C5	6.52	131.86	128.60
1	N	1010	U	P-O5'-C5'	6.52	131.33	120.90
1	N	498	A	C2-N3-C4	-6.52	107.34	110.60
1	N	810	C	N3-C4-C5	-6.52	119.29	121.90
1	N	895	G	C4-N9-C1'	-6.52	118.03	126.50
1	N	909	A	N1-C2-N3	6.52	132.56	129.30
1	N	1023	U	C4-C5-C6	-6.52	115.79	119.70
1	N	120	A	O5'-P-OP1	-6.52	99.84	105.70
1	N	1486	G	N1-C2-N3	-6.52	119.99	123.90
1	N	36	C	C2-N3-C4	6.51	123.16	119.90
1	N	514	C	P-O5'-C5'	6.51	131.32	120.90
1	N	600	A	C6-C5-N7	-6.51	127.74	132.30
1	N	1174	G	C5-C6-O6	-6.51	124.69	128.60
1	N	1215	G	O4'-C1'-N9	6.51	113.41	108.20
1	N	1500	A	O4'-C4'-C3'	-6.51	97.48	104.00
1	N	26	A	N9-C4-C5	6.51	108.41	105.80
1	N	107	G	C5'-C4'-O4'	6.51	116.92	109.10
1	N	192	A	C6-C5-N7	-6.51	127.74	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	909	A	N1-C6-N6	6.51	122.51	118.60
1	N	75	G	N3-C2-N2	6.51	124.46	119.90
1	N	359	G	C5-N7-C8	-6.51	101.04	104.30
1	N	557	G	O4'-C1'-N9	6.51	113.41	108.20
1	N	600	A	O4'-C1'-N9	6.51	113.41	108.20
1	N	727	G	O4'-C1'-N9	6.51	113.41	108.20
1	N	1528	U	O4'-C1'-N1	6.51	113.41	108.20
1	N	117	G	N1-C6-O6	6.51	123.81	119.90
1	N	923	A	O4'-C1'-N9	6.51	113.41	108.20
1	N	1175	G	C5'-C4'-O4'	6.51	116.91	109.10
1	N	1245	C	C5-C4-N4	-6.51	115.64	120.20
1	N	1357	A	N1-C2-N3	6.51	132.56	129.30
1	N	1485	U	C6-N1-C2	-6.51	117.09	121.00
1	N	1520	C	C5-C6-N1	6.51	124.25	121.00
1	N	160	A	C6-N1-C2	6.51	122.50	118.60
1	N	387	U	N3-C4-O4	6.51	123.95	119.40
1	N	4	U	C3'-C2'-C1'	6.50	106.70	101.50
1	N	13	U	N1-C2-N3	6.50	118.80	114.90
1	N	241	G	N7-C8-N9	6.50	116.35	113.10
1	N	306	A	N3-C4-C5	-6.50	122.25	126.80
1	N	912	C	C6-N1-C2	-6.50	117.70	120.30
1	N	431	A	C2-N3-C4	6.50	113.85	110.60
1	N	523	A	C5-C6-N6	-6.50	118.50	123.70
1	N	859	G	P-O3'-C3'	6.50	127.50	119.70
1	N	871	U	N3-C2-O2	6.50	126.75	122.20
1	N	119	A	C5-C6-N1	-6.50	114.45	117.70
1	N	358	U	C3'-C2'-C1'	-6.50	96.30	101.50
1	N	993	G	C8-N9-C1'	-6.50	118.55	127.00
1	N	1429	A	N1-C2-N3	-6.50	126.05	129.30
1	N	371	A	N9-C1'-C2'	-6.50	104.86	112.00
1	N	761	G	C6-N1-C2	6.50	129.00	125.10
1	N	805	C	O4'-C1'-N1	6.50	113.40	108.20
1	N	1460	C	C6-N1-C1'	-6.50	113.00	120.80
1	N	152	A	P-O3'-C3'	-6.49	111.91	119.70
1	N	202	G	C6-N1-C2	6.49	129.00	125.10
1	N	423	G	N9-C4-C5	-6.49	102.80	105.40
1	N	447	G	N3-C4-N9	6.49	129.90	126.00
1	N	520	A	C4-C5-N7	-6.49	107.45	110.70
1	N	1312	G	C4-C5-N7	-6.49	108.20	110.80
1	N	733	G	C6-C5-N7	-6.49	126.50	130.40
1	N	1221	G	C4-C5-C6	6.49	122.69	118.80
1	N	1270	G	O4'-C1'-N9	6.49	113.39	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	173	U	P-O5'-C5'	-6.49	110.52	120.90
1	N	188	C	C5-C6-N1	6.49	124.25	121.00
1	N	315	A	C6-N1-C2	-6.49	114.70	118.60
1	N	747	A	C4-C5-C6	6.49	120.25	117.00
1	N	934	C	C4'-C3'-C2'	6.49	109.09	102.60
1	N	1444	U	C5'-C4'-C3'	-6.49	105.61	116.00
1	N	1521	C	N3-C2-O2	6.49	126.44	121.90
1	N	944	G	N1-C2-N3	-6.49	120.01	123.90
1	N	1143	G	N7-C8-N9	6.49	116.34	113.10
1	N	1197	A	C4-C5-C6	6.49	120.24	117.00
1	N	1454	G	C1'-O4'-C4'	6.49	115.09	109.90
1	N	344	A	N7-C8-N9	6.49	117.04	113.80
1	N	1465	A	C6-N1-C2	-6.49	114.71	118.60
1	N	41	G	C5-C6-O6	-6.49	124.71	128.60
1	N	282	A	N1-C6-N6	6.49	122.49	118.60
1	N	890	G	O4'-C1'-N9	6.49	113.39	108.20
1	N	1043	G	N1-C6-O6	6.49	123.79	119.90
1	N	1055	A	C5'-C4'-O4'	-6.49	101.32	109.10
1	N	1101	A	C8-N9-C4	-6.48	103.21	105.80
1	N	58	C	N3-C4-C5	-6.48	119.31	121.90
1	N	86	G	C5-C6-O6	-6.48	124.71	128.60
1	N	254	G	C5-C6-N1	-6.48	108.26	111.50
1	N	626	G	C4-C5-N7	-6.48	108.21	110.80
1	N	176	C	P-O5'-C5'	6.48	131.27	120.90
1	N	800	G	C5-C6-N1	-6.48	108.26	111.50
1	N	812	G	O3'-P-O5'	-6.48	91.69	104.00
1	N	1107	C	N3-C4-C5	-6.48	119.31	121.90
1	N	238	A	N1-C6-N6	6.48	122.49	118.60
1	N	1202	U	C5-C4-O4	6.48	129.79	125.90
1	N	641	U	C1'-O4'-C4'	6.48	115.08	109.90
1	N	74	A	O4'-C1'-N9	6.47	113.38	108.20
1	N	243	A	C1'-O4'-C4'	6.47	115.08	109.90
1	N	424	G	C8-N9-C1'	-6.47	118.58	127.00
1	N	756	C	O4'-C4'-C3'	-6.47	97.53	104.00
1	N	1152	A	C8-N9-C4	6.47	108.39	105.80
1	N	207	C	C4-C5-C6	6.47	120.64	117.40
1	N	250	A	P-O3'-C3'	6.47	127.47	119.70
1	N	462	G	N3-C2-N2	6.47	124.43	119.90
1	N	877	G	C5-C6-O6	-6.47	124.72	128.60
1	N	898	G	C5-C6-O6	-6.47	124.72	128.60
1	N	392	C	N3-C4-C5	-6.47	119.31	121.90
1	N	909	A	O4'-C1'-N9	6.47	113.38	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	475	C	N1-C2-O2	-6.47	115.02	118.90
1	N	723	U	C5'-C4'-O4'	6.47	116.86	109.10
1	N	745	G	O4'-C1'-N9	6.47	113.37	108.20
1	N	497	G	N1-C2-N2	-6.46	110.38	116.20
1	N	795	C	C5-C6-N1	6.46	124.23	121.00
1	N	386	C	C5'-C4'-O4'	6.46	116.85	109.10
1	N	495	A	C4-C5-C6	6.46	120.23	117.00
1	N	519	C	N3-C4-C5	-6.46	119.31	121.90
1	N	836	G	C5'-C4'-C3'	-6.46	105.66	116.00
1	N	1095	U	N3-C4-C5	-6.46	110.72	114.60
1	N	1169	A	C8-N9-C4	-6.46	103.22	105.80
1	N	1447	A	N7-C8-N9	-6.46	110.57	113.80
1	N	894	G	N3-C4-C5	6.46	131.83	128.60
1	N	1473	G	C1'-O4'-C4'	6.46	115.07	109.90
1	N	393	A	N9-C4-C5	6.46	108.38	105.80
1	N	1075	U	N3-C4-C5	-6.46	110.72	114.60
1	N	1485	U	N3-C4-O4	6.46	123.92	119.40
1	N	739	C	N3-C4-N4	6.46	122.52	118.00
1	N	1238	A	C5-C6-N6	-6.46	118.53	123.70
1	N	1241	G	C5'-C4'-C3'	-6.46	105.67	116.00
1	N	303	A	C4-C5-C6	6.46	120.23	117.00
1	N	647	C	O4'-C4'-C3'	-6.46	97.55	104.00
1	N	230	G	N3-C4-N9	6.45	129.87	126.00
1	N	412	A	C4-C5-C6	6.45	120.23	117.00
1	N	510	A	C4'-C3'-C2'	6.45	109.05	102.60
1	N	762	U	C6-N1-C2	-6.45	117.13	121.00
1	N	73	C	P-O5'-C5'	-6.45	110.58	120.90
1	N	1007	U	OP1-P-OP2	-6.45	109.92	119.60
1	N	1140	C	N1-C2-N3	-6.45	114.68	119.20
1	N	292	G	N1-C2-N3	-6.45	120.03	123.90
1	N	427	U	C3'-C2'-C1'	-6.45	96.34	101.50
1	N	941	G	N1-C2-N3	-6.45	120.03	123.90
1	N	544	G	C4-C5-C6	6.45	122.67	118.80
1	N	682	G	O4'-C1'-N9	6.45	113.36	108.20
1	N	1088	G	O4'-C4'-C3'	-6.45	97.55	104.00
1	N	580	C	O4'-C1'-N1	6.45	113.36	108.20
1	N	777	A	C2-N3-C4	-6.45	107.38	110.60
1	N	1138	G	C5-N7-C8	6.45	107.52	104.30
1	N	1394	A	C4-C5-C6	6.45	120.22	117.00
1	N	359	G	N1-C6-O6	6.44	123.77	119.90
1	N	440	C	C6-N1-C2	-6.44	117.72	120.30
1	N	461	A	O4'-C1'-N9	6.44	113.36	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	605	U	N3-C4-O4	6.44	123.91	119.40
1	N	867	G	O4'-C1'-C2'	-6.44	99.36	105.80
1	N	1020	G	C5'-C4'-O4'	6.44	116.83	109.10
1	N	1023	U	O4'-C1'-N1	6.44	113.35	108.20
1	N	1243	C	OP1-P-OP2	-6.44	109.94	119.60
1	N	1331	G	C2-N3-C4	6.44	115.12	111.90
1	N	6	G	C6-N1-C2	6.44	128.96	125.10
1	N	498	A	C4'-C3'-C2'	6.44	109.04	102.60
1	N	885	G	C6-C5-N7	-6.44	126.54	130.40
1	N	477	C	N3-C4-N4	6.44	122.51	118.00
1	N	535	A	C2'-C3'-O3'	6.44	124.00	113.70
1	N	1000	A	O4'-C1'-N9	6.44	113.35	108.20
1	N	1363	A	C4-C5-C6	6.44	120.22	117.00
1	N	95	C	C5'-C4'-C3'	-6.44	105.70	116.00
1	N	443	C	C5-C6-N1	6.44	124.22	121.00
1	N	141	G	C2-N3-C4	6.43	115.12	111.90
1	N	217	C	N3-C2-O2	6.43	126.40	121.90
1	N	1524	C	C5-C4-N4	-6.43	115.70	120.20
1	N	627	G	O4'-C1'-N9	6.43	113.35	108.20
1	N	675	A	C6-C5-N7	-6.43	127.80	132.30
1	N	1534	A	C6-N1-C2	-6.43	114.74	118.60
1	N	25	C	C5-C4-N4	-6.43	115.70	120.20
1	N	1092	A	N1-C2-N3	6.43	132.52	129.30
1	N	1340	A	N1-C2-N3	-6.43	126.08	129.30
1	N	76	G	N7-C8-N9	6.43	116.31	113.10
1	N	289	G	N1-C2-N3	-6.43	120.04	123.90
1	N	353	A	O4'-C1'-N9	6.43	113.34	108.20
1	N	1167	A	C2-N3-C4	-6.43	107.39	110.60
1	N	1428	A	C8-N9-C4	6.43	108.37	105.80
1	N	93	U	N1-C2-O2	-6.43	118.30	122.80
1	N	690	G	N1-C2-N3	-6.43	120.04	123.90
1	N	908	A	P-O5'-C5'	6.43	131.18	120.90
1	N	927	G	C4-N9-C1'	-6.43	118.14	126.50
1	N	1282	C	C5-C4-N4	-6.43	115.70	120.20
1	N	785	G	N3-C4-C5	6.42	131.81	128.60
1	N	827	U	N1-C2-O2	-6.42	118.30	122.80
1	N	1216	A	C4-C5-C6	6.42	120.21	117.00
1	N	1266	G	C8-N9-C1'	6.42	135.35	127.00
1	N	1530	G	N9-C4-C5	-6.42	102.83	105.40
1	N	9	G	P-O5'-C5'	6.42	131.18	120.90
1	N	119	A	C5-C6-N6	-6.42	118.56	123.70
1	N	375	U	C6-N1-C2	-6.42	117.15	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	70	U	O4'-C1'-C2'	-6.42	99.38	105.80
1	N	142	G	N1-C2-N3	-6.42	120.05	123.90
1	N	198	G	N9-C1'-C2'	-6.42	104.94	112.00
1	N	1044	A	C8-N9-C4	-6.42	103.23	105.80
1	N	1077	G	C5-C6-O6	-6.42	124.75	128.60
1	N	60	A	C5'-C4'-C3'	-6.42	105.73	116.00
1	N	94	G	P-O5'-C5'	-6.42	110.63	120.90
1	N	417	G	O4'-C1'-N9	6.42	113.33	108.20
1	N	901	A	C5-C6-N1	-6.42	114.49	117.70
1	N	1101	A	C5-C6-N6	-6.42	118.56	123.70
1	N	1352	C	N3-C4-C5	-6.42	119.33	121.90
1	N	1420	U	C4'-C3'-C2'	-6.42	96.18	102.60
1	N	120	A	C5-C6-N1	-6.42	114.49	117.70
1	N	171	A	C5-C6-N6	-6.42	118.57	123.70
1	N	956	U	P-O3'-C3'	-6.42	112.00	119.70
1	N	1517	G	O4'-C1'-N9	6.42	113.33	108.20
1	N	1329	A	C5-C6-N6	-6.42	118.57	123.70
1	N	1503	A	N1-C6-N6	6.42	122.45	118.60
1	N	469	C	N3-C4-C5	-6.41	119.33	121.90
1	N	1239	A	C3'-C2'-C1'	-6.41	96.37	101.50
1	N	369	G	C6-C5-N7	-6.41	126.55	130.40
1	N	305	G	C5-C6-O6	-6.41	124.75	128.60
1	N	887	G	C6-C5-N7	-6.41	126.56	130.40
1	N	894	G	P-O5'-C5'	6.41	131.15	120.90
1	N	921	U	C5-C4-O4	-6.41	122.06	125.90
1	N	80	A	C5-C6-N1	-6.41	114.50	117.70
1	N	478	A	C4-C5-C6	6.41	120.20	117.00
1	N	1152	A	N1-C6-N6	6.41	122.44	118.60
1	N	1468	A	C6-C5-N7	-6.41	127.82	132.30
1	N	119	A	N9-C4-C5	-6.40	103.24	105.80
1	N	549	C	P-O5'-C5'	6.40	131.14	120.90
1	N	906	A	O4'-C1'-C2'	6.40	113.36	107.60
1	N	934	C	N3-C4-C5	-6.40	119.34	121.90
1	N	1458	G	C4-C5-C6	6.40	122.64	118.80
1	N	1465	A	C5-C6-N1	-6.40	114.50	117.70
1	N	1504	G	N9-C4-C5	-6.40	102.84	105.40
1	N	1508	A	C5-N7-C8	-6.40	100.70	103.90
1	N	120	A	C4-C5-N7	-6.40	107.50	110.70
1	N	240	G	C4-C5-C6	6.40	122.64	118.80
1	N	1471	U	C5-C4-O4	-6.40	122.06	125.90
1	N	399	G	C8-N9-C1'	6.40	135.32	127.00
1	N	1175	G	N7-C8-N9	6.40	116.30	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	651	C	C5-C6-N1	6.40	124.20	121.00
1	N	727	G	C3'-C2'-C1'	6.40	106.62	101.50
1	N	1057	G	C6-C5-N7	-6.40	126.56	130.40
1	N	1391	U	C5-C6-N1	-6.40	119.50	122.70
1	N	1497	G	N9-C1'-C2'	-6.40	104.96	112.00
1	N	1504	G	C4-C5-C6	6.40	122.64	118.80
1	N	725	G	C6-C5-N7	-6.40	126.56	130.40
1	N	301	G	N1-C6-O6	6.39	123.74	119.90
1	N	670	G	O4'-C1'-N9	6.39	113.31	108.20
1	N	686	U	N3-C4-C5	-6.39	110.76	114.60
1	N	4	U	P-O3'-C3'	-6.39	112.03	119.70
1	N	993	G	N3-C2-N2	6.39	124.38	119.90
1	N	798	U	C4-C5-C6	6.39	123.53	119.70
1	N	800	G	C6-N1-C2	6.39	128.94	125.10
1	N	1234	C	C6-N1-C2	-6.39	117.74	120.30
1	N	100	G	C5-C6-O6	-6.39	124.77	128.60
1	N	332	G	C5-C6-N1	-6.39	108.31	111.50
1	N	885	G	C5-C6-N1	-6.39	108.31	111.50
1	N	226	G	N1-C6-O6	6.39	123.73	119.90
1	N	1098	C	O4'-C1'-N1	6.39	113.31	108.20
1	N	1424	U	C5-C4-O4	-6.39	122.07	125.90
1	N	477	C	O4'-C1'-N1	6.39	113.31	108.20
1	N	577	G	C8-N9-C4	6.39	108.95	106.40
1	N	971	G	C6-C5-N7	-6.39	126.57	130.40
1	N	1114	C	N3-C4-C5	-6.39	119.34	121.90
1	N	184	G	O5'-C5'-C4'	-6.38	99.57	111.70
1	N	1193	G	C5-N7-C8	6.38	107.49	104.30
1	N	1333	A	N9-C4-C5	6.38	108.35	105.80
1	N	1341	U	C5-C4-O4	6.38	129.73	125.90
1	N	1476	A	C6-N1-C2	-6.38	114.77	118.60
1	N	1121	U	C5-C4-O4	-6.38	122.07	125.90
1	N	17	U	O4'-C4'-C3'	-6.38	97.62	104.00
1	N	973	G	N3-C2-N2	6.38	124.37	119.90
1	N	1242	G	P-O3'-C3'	-6.38	112.05	119.70
1	N	25	C	C4'-C3'-C2'	-6.38	96.22	102.60
1	N	1009	U	N3-C4-O4	-6.38	114.94	119.40
1	N	293	G	P-O5'-C5'	6.38	131.10	120.90
1	N	362	G	C2-N3-C4	6.38	115.09	111.90
1	N	537	G	C2-N3-C4	6.38	115.09	111.90
1	N	717	U	N3-C4-C5	-6.38	110.78	114.60
1	N	1018	G	C5-N7-C8	-6.38	101.11	104.30
1	N	1343	G	C3'-C2'-C1'	-6.38	96.40	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	282	A	C1'-O4'-C4'	6.38	115.00	109.90
1	N	373	A	N7-C8-N9	6.38	116.99	113.80
1	N	913	A	C5-C6-N1	-6.38	114.51	117.70
1	N	1153	G	C2-N3-C4	6.38	115.09	111.90
1	N	1509	C	N3-C4-N4	6.38	122.46	118.00
1	N	44	A	C8-N9-C4	-6.37	103.25	105.80
1	N	161	A	N1-C6-N6	6.37	122.42	118.60
1	N	422	C	P-O3'-C3'	6.37	127.35	119.70
1	N	574	A	N1-C2-N3	6.37	132.49	129.30
1	N	582	C	N1-C1'-C2'	-6.37	104.99	112.00
1	N	927	G	C1'-O4'-C4'	-6.37	104.80	109.90
1	N	1026	G	O4'-C1'-N9	6.37	113.30	108.20
1	N	1260	G	N1-C2-N3	-6.37	120.08	123.90
1	N	1498	U	N1-C2-N3	-6.37	111.08	114.90
1	N	648	A	C5-C6-N1	-6.37	114.52	117.70
1	N	1024	G	C8-N9-C4	-6.37	103.85	106.40
1	N	6	G	C4-C5-C6	6.37	122.62	118.80
1	N	1441	A	C5-N7-C8	6.37	107.08	103.90
1	N	105	G	C5-C6-N1	-6.37	108.32	111.50
1	N	178	C	C3'-C2'-C1'	-6.37	96.41	101.50
1	N	318	G	P-O3'-C3'	-6.37	112.06	119.70
1	N	334	C	C6-N1-C2	-6.37	117.75	120.30
1	N	962	C	C5-C6-N1	6.37	124.18	121.00
1	N	394	G	O4'-C1'-N9	6.37	113.29	108.20
1	N	715	A	N7-C8-N9	-6.37	110.62	113.80
1	N	188	C	C2-N3-C4	6.37	123.08	119.90
1	N	219	U	N3-C2-O2	6.37	126.66	122.20
1	N	446	G	C1'-O4'-C4'	-6.37	104.81	109.90
1	N	532	A	N9-C1'-C2'	-6.37	105.00	112.00
1	N	1005	A	O5'-P-OP2	6.37	118.34	110.70
1	N	1198	G	C6-C5-N7	-6.37	126.58	130.40
1	N	1360	A	C5-C6-N6	-6.37	118.61	123.70
1	N	1054	C	C6-N1-C1'	-6.36	113.16	120.80
1	N	1244	G	C4-C5-C6	6.36	122.62	118.80
1	N	27	G	C5-C6-N1	-6.36	108.32	111.50
1	N	547	A	N9-C4-C5	-6.36	103.25	105.80
1	N	858	G	N1-C6-O6	6.36	123.72	119.90
1	N	1059	C	C5-C4-N4	-6.36	115.75	120.20
1	N	1073	U	C5-C6-N1	-6.36	119.52	122.70
1	N	342	C	O4'-C1'-C2'	-6.36	99.44	105.80
1	N	770	C	O3'-P-O5'	-6.36	91.92	104.00
1	N	803	G	O4'-C1'-N9	6.36	113.29	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	129	A	C5'-C4'-C3'	-6.36	105.83	116.00
1	N	1172	C	N3-C4-C5	6.36	124.44	121.90
1	N	1456	A	C6-C5-N7	-6.36	127.85	132.30
1	N	1471	U	N3-C4-O4	6.36	123.85	119.40
1	N	13	U	C3'-C2'-C1'	-6.36	96.42	101.50
1	N	356	A	C5-N7-C8	6.36	107.08	103.90
1	N	554	A	C4-C5-C6	6.36	120.18	117.00
1	N	843	U	C2-N1-C1'	6.36	125.33	117.70
1	N	266	G	N9-C4-C5	-6.35	102.86	105.40
1	N	320	A	C5'-C4'-O4'	6.35	116.72	109.10
1	N	653	U	C2-N3-C4	6.35	130.81	127.00
1	N	877	G	N1-C2-N3	6.35	127.71	123.90
1	N	1022	A	N1-C6-N6	6.35	122.41	118.60
1	N	1202	U	P-O3'-C3'	6.35	127.32	119.70
1	N	1494	G	O5'-P-OP1	6.35	118.32	110.70
1	N	409	U	N3-C4-C5	-6.35	110.79	114.60
1	N	553	A	C2-N3-C4	-6.35	107.42	110.60
1	N	1098	C	C6-N1-C2	-6.35	117.76	120.30
1	N	1403	C	C5'-C4'-C3'	6.35	126.16	116.00
1	N	314	C	C2-N3-C4	6.35	123.07	119.90
1	N	361	G	C6-C5-N7	-6.35	126.59	130.40
1	N	499	A	C5-C6-N6	-6.35	118.62	123.70
1	N	1198	G	N3-C4-N9	6.35	129.81	126.00
1	N	626	G	N3-C4-C5	-6.34	125.43	128.60
1	N	25	C	C6-N1-C1'	-6.34	113.19	120.80
1	N	265	G	O4'-C1'-N9	6.34	113.27	108.20
1	N	39	G	C3'-C2'-C1'	-6.34	96.43	101.50
1	N	326	G	N1-C2-N3	-6.34	120.10	123.90
1	N	615	G	C6-C5-N7	-6.34	126.59	130.40
1	N	628	G	C6-C5-N7	-6.34	126.59	130.40
1	N	897	C	N3-C4-N4	6.34	122.44	118.00
1	N	1102	A	C4-C5-N7	-6.34	107.53	110.70
1	N	1150	A	O4'-C1'-N9	6.34	113.27	108.20
1	N	482	A	N7-C8-N9	-6.34	110.63	113.80
1	N	597	G	N7-C8-N9	6.34	116.27	113.10
1	N	791	G	O4'-C1'-N9	6.34	113.27	108.20
1	N	10	A	P-O3'-C3'	-6.34	112.09	119.70
1	N	413	G	O4'-C1'-C2'	6.34	113.30	107.60
1	N	878	A	C5'-C4'-C3'	-6.34	105.86	116.00
1	N	213	G	O4'-C1'-C2'	6.33	113.30	107.60
1	N	422	C	C5'-C4'-O4'	6.33	116.70	109.10
1	N	1272	G	N1-C2-N3	-6.33	120.10	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1322	C	N3-C2-O2	-6.33	117.47	121.90
1	N	1434	A	N9-C4-C5	6.33	108.33	105.80
1	N	1115	U	P-O5'-C5'	6.33	131.03	120.90
1	N	431	A	C5-N7-C8	6.33	107.06	103.90
1	N	1343	G	O4'-C1'-N9	6.33	113.26	108.20
1	N	323	U	P-O5'-C5'	6.33	131.02	120.90
1	N	351	G	P-O5'-C5'	6.33	131.02	120.90
1	N	696	A	C5-C6-N6	-6.33	118.64	123.70
1	N	755	G	N1-C2-N2	-6.33	110.50	116.20
1	N	848	C	P-O5'-C5'	6.33	131.03	120.90
1	N	189	A	P-O3'-C3'	-6.33	112.11	119.70
1	N	649	A	O4'-C1'-N9	6.33	113.26	108.20
1	N	34	C	O4'-C1'-N1	6.33	113.26	108.20
1	N	139	A	N1-C2-N3	-6.33	126.14	129.30
1	N	775	G	C4-C5-N7	-6.33	108.27	110.80
1	N	1048	G	N3-C4-C5	6.33	131.76	128.60
1	N	1115	U	C4-C5-C6	-6.33	115.91	119.70
1	N	217	C	C4'-C3'-C2'	-6.32	96.28	102.60
1	N	388	G	C5-N7-C8	-6.32	101.14	104.30
1	N	569	C	C4-C5-C6	6.32	120.56	117.40
1	N	1018	G	C4-C5-N7	6.32	113.33	110.80
1	N	200	G	C5-N7-C8	6.32	107.46	104.30
1	N	315	A	O4'-C1'-N9	6.32	113.26	108.20
1	N	429	U	P-O5'-C5'	-6.32	110.79	120.90
1	N	1369	C	O5'-P-OP2	-6.32	100.01	105.70
1	N	304	U	N3-C4-C5	-6.32	110.81	114.60
1	N	1166	G	N9-C4-C5	6.32	107.93	105.40
1	N	386	C	N3-C4-N4	6.32	122.42	118.00
1	N	650	G	C6-C5-N7	-6.32	126.61	130.40
1	N	1311	A	C8-N9-C4	-6.32	103.27	105.80
1	N	1333	A	C4-C5-C6	6.32	120.16	117.00
1	N	55	A	C5-C6-N1	6.32	120.86	117.70
1	N	76	G	C6-C5-N7	-6.32	126.61	130.40
1	N	759	A	N9-C1'-C2'	-6.32	105.05	112.00
1	N	1331	G	P-O5'-C5'	6.32	131.00	120.90
1	N	320	A	C5-C6-N6	-6.31	118.65	123.70
1	N	331	G	C6-C5-N7	-6.31	126.61	130.40
1	N	715	A	C8-N9-C4	-6.31	103.27	105.80
1	N	907	A	C4-C5-N7	-6.31	107.54	110.70
1	N	531	U	C6-N1-C1'	-6.31	112.36	121.20
1	N	711	G	C6-N1-C2	6.31	128.89	125.10
1	N	996	A	C5-C6-N1	-6.31	114.54	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	54	C	C2-N3-C4	6.31	123.06	119.90
1	N	563	A	C6-C5-N7	-6.31	127.88	132.30
1	N	262	A	C1'-O4'-C4'	-6.31	104.85	109.90
1	N	355	C	P-O3'-C3'	6.31	127.27	119.70
1	N	609	A	P-O5'-C5'	6.31	131.00	120.90
1	N	752	G	N3-C2-N2	6.31	124.32	119.90
1	N	821	G	OP1-P-OP2	-6.31	110.14	119.60
1	N	1069	C	C2-N3-C4	6.31	123.06	119.90
1	N	159	G	C2-N3-C4	-6.31	108.75	111.90
1	N	237	G	N3-C4-N9	-6.31	122.22	126.00
1	N	692	U	C5-C6-N1	6.31	125.85	122.70
1	N	780	A	O4'-C1'-N9	6.31	113.25	108.20
1	N	797	C	N1-C2-N3	-6.31	114.78	119.20
1	N	879	C	N1-C2-O2	6.31	122.68	118.90
1	N	911	U	C5-C4-O4	-6.31	122.12	125.90
1	N	924	C	C1'-O4'-C4'	6.31	114.94	109.90
1	N	1170	A	C2-N3-C4	-6.31	107.45	110.60
1	N	10	A	C8-N9-C4	6.31	108.32	105.80
1	N	1213	A	N1-C2-N3	6.31	132.45	129.30
1	N	1481	U	N3-C4-C5	-6.31	110.82	114.60
1	N	313	A	C2-N3-C4	-6.30	107.45	110.60
1	N	1137	C	N1-C2-N3	-6.30	114.79	119.20
1	N	1382	C	C2-N3-C4	6.30	123.05	119.90
1	N	1417	G	C2'-C3'-O3'	6.30	123.79	113.70
1	N	61	G	C5-C6-N1	-6.30	108.35	111.50
1	N	335	C	C5-C6-N1	6.30	124.15	121.00
1	N	833	G	C6-C5-N7	-6.30	126.62	130.40
1	N	123	U	C2-N1-C1'	-6.30	110.14	117.70
1	N	604	G	C8-N9-C4	-6.30	103.88	106.40
1	N	953	G	C5-C6-O6	-6.30	124.82	128.60
1	N	1387	G	N1-C2-N2	-6.30	110.53	116.20
1	N	201	G	C6-C5-N7	-6.30	126.62	130.40
1	N	253	A	C6-C5-N7	-6.30	127.89	132.30
1	N	923	A	C5-N7-C8	6.30	107.05	103.90
1	N	1392	G	C4-C5-C6	6.30	122.58	118.80
1	N	499	A	N9-C4-C5	-6.30	103.28	105.80
1	N	1096	C	N3-C4-N4	6.30	122.41	118.00
1	N	110	C	C2-N1-C1'	6.30	125.73	118.80
1	N	195	A	C4'-C3'-C2'	-6.30	96.30	102.60
1	N	781	A	N7-C8-N9	-6.30	110.65	113.80
1	N	881	G	C6-C5-N7	-6.30	126.62	130.40
1	N	1029	U	C2-N3-C4	6.30	130.78	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	316	C	N1-C2-N3	-6.29	114.79	119.20
1	N	423	G	C4'-C3'-C2'	6.29	108.89	102.60
1	N	1402	C	N3-C4-N4	6.29	122.40	118.00
1	N	52	C	P-O3'-C3'	-6.29	112.15	119.70
1	N	718	A	C5-C6-N1	-6.29	114.56	117.70
1	N	782	A	C6-C5-N7	-6.29	127.90	132.30
1	N	200	G	N1-C2-N2	-6.29	110.54	116.20
1	N	1176	A	N1-C6-N6	6.29	122.37	118.60
1	N	867	G	C8-N9-C4	6.29	108.92	106.40
1	N	1051	C	O4'-C1'-N1	6.29	113.23	108.20
1	N	1502	A	C2-N3-C4	-6.29	107.46	110.60
1	N	1529	G	C5-C6-O6	6.29	132.37	128.60
1	N	96	U	O4'-C1'-N1	6.29	113.23	108.20
1	N	312	C	O4'-C4'-C3'	-6.29	97.72	104.00
1	N	331	G	C6-N1-C2	6.29	128.87	125.10
1	N	743	A	N3-C4-C5	-6.29	122.40	126.80
1	N	1103	C	C2-N3-C4	6.29	123.04	119.90
1	N	1139	G	N9-C4-C5	-6.29	102.89	105.40
1	N	42	G	C6-C5-N7	-6.28	126.63	130.40
1	N	77	A	N9-C4-C5	6.28	108.31	105.80
1	N	200	G	P-O3'-C3'	6.28	127.24	119.70
1	N	488	C	C5-C4-N4	-6.28	115.80	120.20
1	N	580	C	C2-N3-C4	6.28	123.04	119.90
1	N	1098	C	N3-C2-O2	6.28	126.30	121.90
1	N	1112	C	P-O3'-C3'	-6.28	112.16	119.70
1	N	1464	U	O4'-C1'-N1	6.28	113.23	108.20
1	N	194	C	C1'-O4'-C4'	-6.28	104.87	109.90
1	N	566	G	C2'-C3'-O3'	6.28	123.75	113.70
1	N	765	G	N7-C8-N9	6.28	116.24	113.10
1	N	886	G	C5'-C4'-O4'	6.28	116.64	109.10
1	N	1331	G	N7-C8-N9	6.28	116.24	113.10
1	N	241	G	C8-N9-C4	-6.28	103.89	106.40
1	N	968	A	C2-N3-C4	6.28	113.74	110.60
1	N	74	A	N7-C8-N9	-6.28	110.66	113.80
1	N	817	C	C4-C5-C6	6.28	120.54	117.40
1	N	1446	A	C6-C5-N7	-6.28	127.90	132.30
1	N	386	C	C5-C6-N1	-6.28	117.86	121.00
1	N	823	C	C5'-C4'-C3'	6.28	126.04	116.00
1	N	1308	U	C1'-O4'-C4'	6.28	114.92	109.90
1	N	25	C	C4-C5-C6	-6.28	114.26	117.40
1	N	200	G	O4'-C1'-N9	6.28	113.22	108.20
1	N	466	A	N3-C4-C5	-6.28	122.41	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	467	U	C5'-C4'-O4'	6.28	116.63	109.10
1	N	1215	G	N1-C6-O6	6.28	123.67	119.90
1	N	1498	U	N1-C2-O2	6.28	127.19	122.80
1	N	13	U	C5-C4-O4	-6.27	122.14	125.90
1	N	826	C	O4'-C1'-N1	6.27	113.22	108.20
1	N	1285	A	N1-C6-N6	6.27	122.36	118.60
1	N	820	U	C5-C6-N1	6.27	125.84	122.70
1	N	1216	A	O4'-C4'-C3'	-6.27	97.73	104.00
1	N	191	G	N1-C2-N3	-6.27	120.14	123.90
1	N	434	U	N3-C4-O4	6.27	123.79	119.40
1	N	854	U	C5-C6-N1	6.27	125.83	122.70
1	N	1103	C	C5-C6-N1	6.27	124.13	121.00
1	N	105	G	C4-C5-C6	6.27	122.56	118.80
1	N	374	A	C5'-C4'-C3'	6.27	126.03	116.00
1	N	377	G	C5-C6-O6	-6.27	124.84	128.60
1	N	750	C	C1'-O4'-C4'	6.27	114.92	109.90
1	N	915	A	C4'-C3'-C2'	-6.27	96.33	102.60
1	N	1000	A	C1'-O4'-C4'	6.27	114.91	109.90
1	N	1500	A	C4-C5-C6	6.27	120.13	117.00
1	N	419	C	C4'-C3'-C2'	-6.27	96.33	102.60
1	N	643	C	N3-C4-N4	6.26	122.39	118.00
1	N	690	G	C5-C6-O6	-6.26	124.84	128.60
1	N	694	A	OP1-P-OP2	-6.26	110.20	119.60
1	N	1351	U	P-O5'-C5'	-6.26	110.88	120.90
1	N	817	C	C2-N1-C1'	6.26	125.69	118.80
1	N	994	A	O4'-C1'-N9	6.26	113.21	108.20
1	N	10	A	C5-C6-N1	-6.26	114.57	117.70
1	N	97	G	N7-C8-N9	6.26	116.23	113.10
1	N	131	A	C5'-C4'-C3'	-6.26	105.98	116.00
1	N	432	A	C5-N7-C8	6.26	107.03	103.90
1	N	601	G	N9-C4-C5	6.26	107.91	105.40
1	N	731	G	C6-C5-N7	-6.26	126.64	130.40
1	N	850	U	P-O5'-C5'	6.26	130.92	120.90
1	N	1192	C	N3-C4-N4	6.26	122.38	118.00
1	N	27	G	C4-C5-N7	-6.26	108.30	110.80
1	N	324	G	O4'-C1'-N9	6.26	113.21	108.20
1	N	573	A	P-O3'-C3'	6.26	127.21	119.70
1	N	882	C	P-O5'-C5'	-6.26	110.88	120.90
1	N	925	G	N1-C2-N2	-6.26	110.57	116.20
1	N	965	U	C1'-O4'-C4'	-6.26	104.89	109.90
1	N	1062	U	C6-N1-C1'	6.26	129.96	121.20
1	N	1372	U	C2-N3-C4	-6.26	123.24	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1387	G	O4'-C1'-N9	6.26	113.21	108.20
1	N	254	G	C3'-C2'-C1'	-6.26	96.49	101.50
1	N	567	G	O4'-C1'-N9	6.26	113.21	108.20
1	N	580	C	C6-N1-C2	-6.26	117.80	120.30
1	N	595	A	C4-C5-C6	6.26	120.13	117.00
1	N	825	A	C5-C6-N6	-6.26	118.69	123.70
1	N	378	G	C8-N9-C1'	-6.26	118.87	127.00
1	N	1440	U	C5'-C4'-O4'	6.26	116.61	109.10
1	N	1477	U	C3'-C2'-C1'	-6.25	96.50	101.50
1	N	668	G	C8-N9-C4	6.25	108.90	106.40
1	N	876	C	C5-C6-N1	6.25	124.13	121.00
1	N	1136	C	N3-C4-N4	6.25	122.38	118.00
1	N	1274	A	O4'-C1'-N9	6.25	113.20	108.20
1	N	1512	U	OP1-P-OP2	-6.25	110.22	119.60
1	N	122	G	N3-C4-C5	-6.25	125.47	128.60
1	N	1114	C	P-O5'-C5'	6.25	130.90	120.90
1	N	1130	A	N1-C2-N3	-6.25	126.17	129.30
1	N	1395	C	P-O3'-C3'	6.25	127.20	119.70
1	N	318	G	C5-C6-N1	6.25	114.62	111.50
1	N	687	A	C4-C5-C6	6.25	120.12	117.00
1	N	1075	U	C2-N3-C4	6.25	130.75	127.00
1	N	1227	A	C5-C6-N1	-6.25	114.58	117.70
1	N	1450	U	C5'-C4'-C3'	-6.25	106.00	116.00
1	N	81	A	C2-N3-C4	-6.25	107.48	110.60
1	N	216	U	N3-C4-C5	-6.25	110.85	114.60
1	N	374	A	O4'-C4'-C3'	-6.25	97.75	104.00
1	N	688	G	C4-C5-N7	-6.25	108.30	110.80
1	N	912	C	C2-N1-C1'	6.25	125.67	118.80
1	N	992	U	N1-C2-O2	-6.25	118.43	122.80
1	N	1188	A	P-O3'-C3'	6.25	127.19	119.70
1	N	3	A	C8-N9-C4	-6.25	103.30	105.80
1	N	271	C	C4'-C3'-C2'	-6.25	96.36	102.60
1	N	438	U	C6-N1-C2	-6.25	117.25	121.00
1	N	900	A	C1'-O4'-C4'	-6.24	104.91	109.90
1	N	1357	A	O4'-C1'-N9	6.24	113.19	108.20
1	N	924	C	P-O5'-C5'	6.24	130.89	120.90
1	N	606	G	O4'-C1'-N9	6.24	113.19	108.20
1	N	638	U	C5-C4-O4	-6.24	122.16	125.90
1	N	1175	G	O4'-C1'-N9	6.24	113.19	108.20
1	N	1496	C	N3-C2-O2	6.24	126.27	121.90
1	N	247	G	P-O3'-C3'	-6.24	112.22	119.70
1	N	281	G	OP1-P-OP2	-6.24	110.24	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	500	G	N3-C4-C5	6.24	131.72	128.60
1	N	676	A	C4-C5-C6	6.24	120.12	117.00
1	N	1272	G	C4'-C3'-C2'	-6.24	96.36	102.60
1	N	48	C	C6-N1-C2	6.24	122.80	120.30
1	N	57	G	C6-C5-N7	-6.24	126.66	130.40
1	N	1395	C	C2-N1-C1'	6.24	125.66	118.80
1	N	1411	C	C4-C5-C6	6.24	120.52	117.40
1	N	842	U	N3-C2-O2	-6.23	117.84	122.20
1	N	1218	C	O4'-C1'-C2'	-6.23	99.57	105.80
1	N	459	A	C5'-C4'-O4'	6.23	116.58	109.10
1	N	1114	C	O4'-C1'-N1	6.23	113.19	108.20
1	N	1174	G	N9-C1'-C2'	-6.23	105.14	112.00
1	N	626	G	C4-C5-C6	6.23	122.54	118.80
1	N	682	G	C5'-C4'-O4'	6.23	116.58	109.10
1	N	873	A	C5'-C4'-C3'	-6.23	106.03	116.00
1	N	1270	G	C4'-C3'-C2'	-6.23	96.37	102.60
1	N	1331	G	N3-C4-N9	6.23	129.74	126.00
1	N	332	G	C6-C5-N7	-6.23	126.66	130.40
1	N	494	G	C4'-C3'-C2'	-6.23	96.37	102.60
1	N	527	G	C4-C5-C6	6.23	122.54	118.80
1	N	664	G	O4'-C1'-N9	6.23	113.18	108.20
1	N	632	U	O4'-C1'-N1	6.23	113.18	108.20
1	N	1029	U	P-O5'-C5'	6.23	130.86	120.90
1	N	1407	C	N1-C2-N3	6.23	123.56	119.20
1	N	143	A	C6-N1-C2	-6.23	114.86	118.60
1	N	412	A	C5-C6-N6	-6.23	118.72	123.70
1	N	787	A	C8-N9-C4	-6.23	103.31	105.80
1	N	1305	G	C8-N9-C1'	6.23	135.09	127.00
1	N	387	U	N3-C4-C5	-6.22	110.86	114.60
1	N	837	U	C5-C6-N1	-6.22	119.59	122.70
1	N	902	G	C5-C6-N1	-6.22	108.39	111.50
1	N	1071	C	N1-C2-N3	-6.22	114.84	119.20
1	N	1465	A	N9-C4-C5	-6.22	103.31	105.80
1	N	1107	C	P-O3'-C3'	-6.22	112.23	119.70
1	N	1230	C	P-O5'-C5'	6.22	130.85	120.90
1	N	653	U	O4'-C1'-N1	6.22	113.18	108.20
1	N	299	G	N3-C4-C5	6.22	131.71	128.60
1	N	1210	C	O4'-C1'-N1	6.22	113.17	108.20
1	N	346	G	P-O3'-C3'	6.22	127.16	119.70
1	N	754	C	C4'-C3'-C2'	6.22	108.82	102.60
1	N	1267	C	N3-C2-O2	6.22	126.25	121.90
1	N	342	C	N3-C4-N4	6.22	122.35	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	434	U	C4-C5-C6	-6.22	115.97	119.70
1	N	551	U	O4'-C1'-N1	6.22	113.17	108.20
1	N	465	A	N3-C4-C5	-6.21	122.45	126.80
1	N	715	A	N9-C4-C5	6.21	108.29	105.80
1	N	918	A	N9-C4-C5	-6.21	103.31	105.80
1	N	945	G	C6-C5-N7	-6.21	126.67	130.40
1	N	1427	C	C6-N1-C2	-6.21	117.81	120.30
1	N	90	C	C6-N1-C1'	-6.21	113.34	120.80
1	N	285	C	C5'-C4'-O4'	6.21	116.55	109.10
1	N	814	A	C5'-C4'-C3'	-6.21	106.06	116.00
1	N	929	G	O4'-C1'-N9	6.21	113.17	108.20
1	N	1255	G	P-O5'-C5'	6.21	130.84	120.90
1	N	5	U	N1-C2-N3	-6.21	111.17	114.90
1	N	41	G	C6-C5-N7	-6.21	126.67	130.40
1	N	1023	U	C5-C4-O4	-6.21	122.17	125.90
1	N	1005	A	N3-C4-N9	6.21	132.37	127.40
1	N	1171	A	C8-N9-C4	-6.21	103.32	105.80
1	N	1221	G	C4'-C3'-C2'	-6.21	96.39	102.60
1	N	1441	A	C5'-C4'-C3'	-6.21	106.06	116.00
1	N	225	C	C5-C6-N1	6.21	124.10	121.00
1	N	272	C	N3-C4-N4	6.21	122.34	118.00
1	N	694	A	C2-N3-C4	-6.21	107.50	110.60
1	N	943	U	O4'-C1'-N1	6.21	113.17	108.20
1	N	1013	G	N7-C8-N9	-6.21	110.00	113.10
1	N	1027	C	N3-C2-O2	-6.21	117.56	121.90
1	N	221	C	C6-N1-C2	-6.21	117.82	120.30
1	N	313	A	C5-C6-N6	-6.21	118.74	123.70
1	N	121	U	O4'-C1'-N1	6.20	113.16	108.20
1	N	381	C	N3-C4-N4	6.20	122.34	118.00
1	N	690	G	O4'-C1'-N9	6.20	113.16	108.20
1	N	781	A	N9-C4-C5	6.20	108.28	105.80
1	N	889	A	C5-N7-C8	6.20	107.00	103.90
1	N	15	G	C6-N1-C2	6.20	128.82	125.10
1	N	449	G	N9-C4-C5	-6.20	102.92	105.40
1	N	497	G	C3'-C2'-C1'	6.20	106.46	101.50
1	N	1376	U	C6-N1-C2	-6.20	117.28	121.00
1	N	1322	C	O4'-C1'-N1	6.20	113.16	108.20
1	N	1365	G	P-O5'-C5'	-6.20	110.98	120.90
1	N	495	A	C4'-C3'-C2'	6.20	108.80	102.60
1	N	731	G	N9-C4-C5	6.20	107.88	105.40
1	N	1160	G	C4-C5-N7	6.20	113.28	110.80
1	N	1196	A	C6-N1-C2	-6.20	114.88	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1341	U	C2-N3-C4	6.20	130.72	127.00
1	N	405	U	N3-C2-O2	6.20	126.54	122.20
1	N	658	C	O4'-C4'-C3'	-6.20	97.80	104.00
1	N	794	A	C5-C6-N1	-6.20	114.60	117.70
1	N	1099	G	C1'-O4'-C4'	6.20	114.86	109.90
1	N	1149	C	C2-N3-C4	6.20	123.00	119.90
1	N	1293	C	N1-C2-O2	-6.20	115.18	118.90
1	N	1326	U	C6-N1-C2	-6.20	117.28	121.00
1	N	37	U	C1'-O4'-C4'	-6.19	104.94	109.90
1	N	102	G	C5-N7-C8	-6.19	101.20	104.30
1	N	372	C	O4'-C1'-N1	6.19	113.16	108.20
1	N	1146	A	N1-C6-N6	6.19	122.32	118.60
1	N	24	U	C1'-O4'-C4'	-6.19	104.95	109.90
1	N	78	A	P-O3'-C3'	6.19	127.13	119.70
1	N	855	U	N1-C2-N3	-6.19	111.18	114.90
1	N	934	C	C6-N1-C2	6.19	122.78	120.30
1	N	1182	G	N9-C4-C5	6.19	107.88	105.40
1	N	1246	A	C5-N7-C8	6.19	107.00	103.90
1	N	1268	G	C5-C6-O6	-6.19	124.88	128.60
1	N	1334	G	P-O3'-C3'	6.19	127.13	119.70
1	N	1507	A	C5-C6-N6	-6.19	118.75	123.70
1	N	136	C	C1'-O4'-C4'	6.19	114.85	109.90
1	N	926	G	O4'-C4'-C3'	-6.19	97.81	104.00
1	N	1007	U	N1-C2-N3	-6.19	111.19	114.90
1	N	1469	C	N1-C2-O2	-6.19	115.19	118.90
1	N	1231	G	C1'-O4'-C4'	6.19	114.85	109.90
1	N	278	G	N7-C8-N9	-6.19	110.01	113.10
1	N	795	C	C2-N3-C4	6.19	122.99	119.90
1	N	142	G	OP1-P-OP2	-6.19	110.32	119.60
1	N	1041	G	N1-C2-N3	-6.19	120.19	123.90
1	N	502	A	N9-C1'-C2'	-6.18	105.20	112.00
1	N	796	C	C5-C4-N4	-6.18	115.87	120.20
1	N	1147	C	C6-N1-C2	-6.18	117.83	120.30
1	N	1384	C	C4'-C3'-C2'	-6.18	96.42	102.60
1	N	1398	A	C8-N9-C4	-6.18	103.33	105.80
1	N	418	C	N3-C4-C5	-6.18	119.43	121.90
1	N	551	U	C5-C6-N1	6.18	125.79	122.70
1	N	728	A	C6-N1-C2	-6.18	114.89	118.60
1	N	875	U	N1-C1'-C2'	-6.18	105.20	112.00
1	N	675	A	C4-C5-N7	-6.18	107.61	110.70
1	N	169	C	O4'-C4'-C3'	-6.18	97.82	104.00
1	N	729	A	C4-C5-N7	-6.18	107.61	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1466	C	N3-C4-N4	6.18	122.32	118.00
1	N	1476	A	O4'-C1'-N9	6.18	113.14	108.20
1	N	338	A	N9-C4-C5	6.17	108.27	105.80
1	N	901	A	C5-C6-N6	-6.17	118.76	123.70
1	N	334	C	C4'-C3'-C2'	-6.17	96.43	102.60
1	N	669	G	N3-C2-N2	6.17	124.22	119.90
1	N	343	U	N3-C4-O4	6.17	123.72	119.40
1	N	1122	U	N3-C4-C5	-6.17	110.90	114.60
1	N	1456	A	C5-N7-C8	6.17	106.99	103.90
1	N	1127	G	O4'-C1'-N9	6.17	113.14	108.20
1	N	1370	G	C5'-C4'-O4'	6.17	116.50	109.10
1	N	29	U	P-O3'-C3'	6.17	127.10	119.70
1	N	742	G	N3-C2-N2	6.17	124.22	119.90
1	N	546	A	C8-N9-C4	6.17	108.27	105.80
1	N	639	G	C6-C5-N7	-6.17	126.70	130.40
1	N	798	U	C5-C4-O4	-6.17	122.20	125.90
1	N	865	A	C4-C5-C6	6.17	120.08	117.00
1	N	1063	C	C5-C6-N1	-6.17	117.92	121.00
1	N	1505	G	C6-C5-N7	-6.17	126.70	130.40
1	N	158	G	C5-C6-O6	-6.17	124.90	128.60
1	N	405	U	N3-C4-C5	-6.17	110.90	114.60
1	N	554	A	N1-C6-N6	6.17	122.30	118.60
1	N	720	C	N3-C4-N4	-6.17	113.68	118.00
1	N	1404	C	C5-C6-N1	6.17	124.08	121.00
1	N	919	A	O4'-C1'-N9	6.16	113.13	108.20
1	N	696	A	C4-C5-C6	6.16	120.08	117.00
1	N	205	A	N1-C2-N3	6.16	132.38	129.30
1	N	360	G	C6-C5-N7	-6.16	126.70	130.40
1	N	968	A	N7-C8-N9	6.16	116.88	113.80
1	N	1482	G	P-O5'-C5'	6.16	130.76	120.90
1	N	44	A	C5-C6-N1	-6.16	114.62	117.70
1	N	697	U	O4'-C1'-N1	6.16	113.13	108.20
1	N	851	G	C6-C5-N7	-6.16	126.70	130.40
1	N	98	A	N1-C6-N6	6.16	122.29	118.60
1	N	559	A	C8-N9-C4	-6.16	103.34	105.80
1	N	1231	G	C5-C6-N1	-6.16	108.42	111.50
1	N	174	A	C5-N7-C8	6.16	106.98	103.90
1	N	198	G	N1-C2-N3	-6.16	120.21	123.90
1	N	266	G	N1-C2-N3	-6.16	120.21	123.90
1	N	417	G	C2-N3-C4	-6.16	108.82	111.90
1	N	588	G	N1-C6-O6	6.16	123.59	119.90
1	N	759	A	P-O5'-C5'	6.16	130.75	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1010	U	OP1-P-OP2	-6.16	110.37	119.60
1	N	396	C	O4'-C1'-N1	6.15	113.12	108.20
1	N	1273	C	C5'-C4'-C3'	-6.15	106.15	116.00
1	N	626	G	N3-C2-N2	6.15	124.21	119.90
1	N	703	G	C8-N9-C4	6.15	108.86	106.40
1	N	919	A	C5-C6-N1	-6.15	114.62	117.70
1	N	1110	A	C5-C6-N6	6.15	128.62	123.70
1	N	1506	U	N3-C2-O2	6.15	126.51	122.20
1	N	29	U	C5-C4-O4	-6.15	122.21	125.90
1	N	86	G	C4-C5-N7	6.15	113.26	110.80
1	N	936	C	N3-C4-N4	6.15	122.31	118.00
1	N	1038	C	N3-C4-C5	-6.15	119.44	121.90
1	N	1378	C	C5-C4-N4	-6.15	115.89	120.20
1	N	1153	G	C4-N9-C1'	-6.15	118.51	126.50
1	N	1466	C	C5-C4-N4	-6.15	115.90	120.20
1	N	137	U	N3-C4-C5	-6.14	110.91	114.60
1	N	246	A	N9-C4-C5	6.14	108.26	105.80
1	N	270	A	C4-C5-C6	6.14	120.07	117.00
1	N	349	A	C4-C5-C6	6.14	120.07	117.00
1	N	528	C	C2-N3-C4	6.14	122.97	119.90
1	N	827	U	C6-N1-C2	-6.14	117.31	121.00
1	N	884	U	P-O3'-C3'	6.14	127.07	119.70
1	N	994	A	C8-N9-C4	6.14	108.26	105.80
1	N	1267	C	N1-C2-N3	-6.14	114.90	119.20
1	N	1527	U	C2-N3-C4	-6.14	123.31	127.00
1	N	1531	A	C5-N7-C8	6.14	106.97	103.90
1	N	419	C	O4'-C1'-N1	6.14	113.11	108.20
1	N	596	A	C6-C5-N7	-6.14	128.00	132.30
1	N	874	G	N1-C2-N3	-6.14	120.21	123.90
1	N	959	A	C1'-O4'-C4'	6.14	114.81	109.90
1	N	992	U	C5-C4-O4	-6.14	122.22	125.90
1	N	1052	U	O4'-C1'-N1	6.14	113.11	108.20
1	N	1516	G	C5-N7-C8	-6.14	101.23	104.30
1	N	604	G	C5-C6-N1	-6.14	108.43	111.50
1	N	607	A	N7-C8-N9	6.14	116.87	113.80
1	N	791	G	N1-C2-N3	6.14	127.58	123.90
1	N	171	A	C8-N9-C1'	-6.14	116.65	127.70
1	N	297	G	C3'-C2'-C1'	-6.14	96.59	101.50
1	N	367	U	O4'-C1'-N1	6.14	113.11	108.20
1	N	1253	G	C2-N3-C4	6.14	114.97	111.90
1	N	1280	A	N9-C4-C5	-6.14	103.34	105.80
1	N	228	A	O4'-C1'-N9	6.14	113.11	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	260	G	N3-C2-N2	6.14	124.19	119.90
1	N	568	G	N1-C6-O6	6.14	123.58	119.90
1	N	643	C	P-O3'-C3'	6.14	127.06	119.70
1	N	818	G	N3-C4-C5	-6.14	125.53	128.60
1	N	954	G	N3-C2-N2	6.14	124.20	119.90
1	N	154	U	P-O3'-C3'	-6.13	112.34	119.70
1	N	347	G	C6-C5-N7	-6.13	126.72	130.40
1	N	1240	U	O4'-C1'-C2'	-6.13	99.67	105.80
1	N	1169	A	C6-C5-N7	-6.13	128.01	132.30
1	N	95	C	C4-C5-C6	6.13	120.47	117.40
1	N	387	U	N1-C2-N3	-6.13	111.22	114.90
1	N	471	U	O4'-C1'-N1	6.13	113.11	108.20
1	N	532	A	C5'-C4'-O4'	6.13	116.46	109.10
1	N	956	U	C5-C4-O4	6.13	129.58	125.90
1	N	1062	U	N1-C2-O2	6.13	127.09	122.80
1	N	1380	U	C4'-C3'-C2'	-6.13	96.47	102.60
1	N	541	G	N7-C8-N9	6.13	116.17	113.10
1	N	910	C	N3-C4-N4	6.13	122.29	118.00
1	N	1466	C	O4'-C1'-N1	6.13	113.10	108.20
1	N	274	A	N1-C6-N6	6.13	122.28	118.60
1	N	97	G	C2-N3-C4	6.13	114.96	111.90
1	N	264	C	P-O3'-C3'	6.13	127.05	119.70
1	N	375	U	N3-C4-O4	6.13	123.69	119.40
1	N	552	U	C5-C4-O4	-6.13	122.22	125.90
1	N	694	A	C3'-C2'-C1'	-6.12	96.60	101.50
1	N	236	A	C4-C5-C6	6.12	120.06	117.00
1	N	693	G	N3-C2-N2	6.12	124.19	119.90
1	N	884	U	N3-C4-O4	6.12	123.69	119.40
1	N	1423	G	O4'-C4'-C3'	-6.12	97.88	104.00
1	N	84	U	C2-N1-C1'	6.12	125.05	117.70
1	N	265	G	C4-N9-C1'	-6.12	118.54	126.50
1	N	781	A	C5-C6-N6	-6.12	118.80	123.70
1	N	823	C	N3-C4-N4	6.12	122.28	118.00
1	N	1077	G	N1-C2-N3	-6.12	120.23	123.90
1	N	1530	G	C4-N9-C1'	6.12	134.46	126.50
1	N	478	A	C6-C5-N7	-6.12	128.02	132.30
1	N	505	G	N3-C2-N2	6.12	124.18	119.90
1	N	695	A	O4'-C1'-N9	6.12	113.09	108.20
1	N	746	A	C5-C6-N6	-6.12	118.81	123.70
1	N	797	C	C5-C6-N1	6.12	124.06	121.00
1	N	970	C	C6-N1-C1'	-6.12	113.46	120.80
1	N	1157	A	C8-N9-C4	6.12	108.25	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1358	U	C3'-C2'-C1'	6.12	106.39	101.50
1	N	1424	U	C4'-C3'-C2'	-6.12	96.48	102.60
1	N	184	G	N1-C2-N2	-6.12	110.70	116.20
1	N	806	C	C6-N1-C1'	-6.12	113.46	120.80
1	N	1465	A	C6-C5-N7	-6.12	128.02	132.30
1	N	254	G	O4'-C1'-N9	6.11	113.09	108.20
1	N	739	C	P-O3'-C3'	-6.11	112.36	119.70
1	N	978	A	C2-N3-C4	6.11	113.66	110.60
1	N	1404	C	P-O3'-C3'	6.11	127.04	119.70
1	N	1428	A	C5-N7-C8	6.11	106.96	103.90
1	N	252	U	O3'-P-O5'	-6.11	92.39	104.00
1	N	258	G	C5'-C4'-O4'	6.11	116.43	109.10
1	N	427	U	C6-N1-C1'	6.11	129.75	121.20
1	N	723	U	P-O3'-C3'	-6.11	112.37	119.70
1	N	785	G	P-O5'-C5'	-6.11	111.12	120.90
1	N	826	C	C6-N1-C2	6.11	122.74	120.30
1	N	897	C	N1-C2-N3	6.11	123.48	119.20
1	N	1134	G	O4'-C4'-C3'	-6.11	97.89	104.00
1	N	1453	G	N1-C2-N3	-6.11	120.23	123.90
1	N	1246	A	C5-C6-N6	-6.11	118.81	123.70
1	N	295	C	C3'-C2'-C1'	-6.11	96.61	101.50
1	N	736	C	N3-C4-C5	-6.11	119.46	121.90
1	N	738	C	N3-C4-N4	6.11	122.27	118.00
1	N	83	C	P-O3'-C3'	6.10	127.02	119.70
1	N	326	G	C6-C5-N7	-6.10	126.74	130.40
1	N	1016	A	C5-N7-C8	6.10	106.95	103.90
1	N	1147	C	C2'-C3'-O3'	6.10	123.47	113.70
1	N	1169	A	OP1-P-OP2	-6.10	110.44	119.60
1	N	136	C	O5'-P-OP1	-6.10	100.21	105.70
1	N	1516	G	C5-C6-N1	-6.10	108.45	111.50
1	N	61	G	N3-C2-N2	6.10	124.17	119.90
1	N	113	G	N9-C4-C5	6.10	107.84	105.40
1	N	313	A	C4-C5-N7	6.10	113.75	110.70
1	N	342	C	O4'-C1'-N1	6.10	113.08	108.20
1	N	886	G	P-O5'-C5'	6.10	130.66	120.90
1	N	619	U	N3-C4-C5	-6.10	110.94	114.60
1	N	1316	G	P-O5'-C5'	-6.10	111.15	120.90
1	N	253	A	N7-C8-N9	-6.09	110.75	113.80
1	N	706	A	C4-C5-C6	6.09	120.05	117.00
1	N	873	A	C4-C5-N7	-6.09	107.65	110.70
1	N	909	A	P-O5'-C5'	6.09	130.65	120.90
1	N	1284	C	C5-C6-N1	6.09	124.05	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1315	U	C6-N1-C2	-6.09	117.34	121.00
1	N	274	A	C2'-C3'-O3'	6.09	123.45	113.70
1	N	387	U	N3-C2-O2	6.09	126.47	122.20
1	N	256	U	N1-C2-O2	-6.09	118.54	122.80
1	N	314	C	C2-N1-C1'	6.09	125.50	118.80
1	N	648	A	P-O5'-C5'	6.09	130.65	120.90
1	N	730	G	C6-C5-N7	-6.09	126.75	130.40
1	N	1194	U	N1-C1'-C2'	6.09	121.92	114.00
1	N	1201	A	N7-C8-N9	6.09	116.84	113.80
1	N	1359	C	P-O5'-C5'	-6.09	111.16	120.90
1	N	1364	U	C2-N1-C1'	6.09	125.01	117.70
1	N	296	U	O5'-P-OP1	6.09	118.01	110.70
1	N	1056	U	C2-N3-C4	6.09	130.65	127.00
1	N	1254	A	C6-C5-N7	-6.09	128.04	132.30
1	N	1293	C	O4'-C1'-N1	6.09	113.07	108.20
1	N	350	G	O4'-C1'-N9	6.09	113.07	108.20
1	N	575	G	O4'-C1'-N9	6.09	113.07	108.20
1	N	692	U	C5'-C4'-C3'	-6.09	106.26	116.00
1	N	758	C	O4'-C1'-N1	6.09	113.07	108.20
1	N	1273	C	C4'-C3'-C2'	-6.09	96.51	102.60
1	N	1250	A	O5'-C5'-C4'	-6.08	100.14	111.70
1	N	1293	C	N3-C4-C5	-6.08	119.47	121.90
1	N	153	C	C6-N1-C2	-6.08	117.87	120.30
1	N	836	G	C2-N3-C4	6.08	114.94	111.90
1	N	1404	C	N1-C1'-C2'	-6.08	105.31	112.00
1	N	1407	C	OP2-P-O3'	6.08	118.58	105.20
1	N	27	G	C2-N3-C4	6.08	114.94	111.90
1	N	107	G	C5-N7-C8	6.08	107.34	104.30
1	N	111	G	N1-C2-N2	-6.08	110.73	116.20
1	N	316	C	O4'-C4'-C3'	-6.08	97.92	104.00
1	N	570	G	N7-C8-N9	6.08	116.14	113.10
1	N	1181	G	C8-N9-C1'	-6.08	119.09	127.00
1	N	1353	G	C4-C5-C6	6.08	122.45	118.80
1	N	265	G	C5-C6-N1	-6.08	108.46	111.50
1	N	656	G	N3-C4-N9	-6.08	122.35	126.00
1	N	700	G	N3-C4-C5	-6.08	125.56	128.60
1	N	387	U	C5-C6-N1	6.08	125.74	122.70
1	N	649	A	P-O3'-C3'	6.08	127.00	119.70
1	N	914	A	C6-N1-C2	-6.08	114.95	118.60
1	N	1035	A	C6-N1-C2	6.08	122.25	118.60
1	N	1241	G	O4'-C1'-N9	6.08	113.06	108.20
1	N	1519	A	N3-C4-N9	6.08	132.26	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	524	G	O4'-C1'-N9	6.08	113.06	108.20
1	N	101	A	C4'-C3'-C2'	-6.08	96.53	102.60
1	N	484	G	C8-N9-C4	6.08	108.83	106.40
1	N	532	A	C8-N9-C1'	-6.08	116.77	127.70
1	N	1499	A	N7-C8-N9	-6.08	110.76	113.80
1	N	33	A	N1-C6-N6	6.07	122.24	118.60
1	N	78	A	C2-N3-C4	-6.07	107.56	110.60
1	N	731	G	N3-C4-C5	-6.07	125.56	128.60
1	N	317	U	C2-N1-C1'	6.07	124.99	117.70
1	N	392	C	N1-C2-O2	-6.07	115.26	118.90
1	N	404	G	C6-N1-C2	6.07	128.74	125.10
1	N	1325	C	O4'-C1'-N1	6.07	113.06	108.20
1	N	66	A	O4'-C1'-N9	6.07	113.06	108.20
1	N	879	C	C2-N1-C1'	6.07	125.48	118.80
1	N	1310	G	N1-C2-N3	-6.07	120.26	123.90
1	N	255	G	N3-C4-N9	-6.07	122.36	126.00
1	N	1253	G	P-O3'-C3'	-6.07	112.42	119.70
1	N	227	G	C8-N9-C4	-6.07	103.97	106.40
1	N	260	G	N1-C6-O6	6.07	123.54	119.90
1	N	302	G	O4'-C1'-N9	6.07	113.05	108.20
1	N	903	G	C3'-C2'-C1'	-6.07	96.65	101.50
1	N	1370	G	C4-C5-C6	6.07	122.44	118.80
1	N	1432	G	O4'-C1'-C2'	-6.07	99.73	105.80
1	N	33	A	C6-N1-C2	6.07	122.24	118.60
1	N	359	G	OP1-P-OP2	-6.07	110.50	119.60
1	N	421	U	N1-C2-O2	-6.07	118.55	122.80
1	N	453	G	O4'-C1'-N9	6.07	113.05	108.20
1	N	671	G	C4-C5-N7	-6.07	108.37	110.80
1	N	939	G	C5-N7-C8	6.07	107.33	104.30
1	N	1116	U	C6-N1-C1'	-6.07	112.71	121.20
1	N	1524	C	N3-C4-N4	6.07	122.25	118.00
1	N	1358	U	C1'-O4'-C4'	6.06	114.75	109.90
1	N	503	C	O4'-C1'-N1	6.06	113.05	108.20
1	N	554	A	C4-C5-N7	-6.06	107.67	110.70
1	N	1303	C	C4-C5-C6	6.06	120.43	117.40
1	N	1389	C	N1-C2-N3	-6.06	114.96	119.20
1	N	1406	U	C5-C6-N1	-6.06	119.67	122.70
1	N	293	G	C4-C5-N7	-6.06	108.38	110.80
1	N	423	G	N3-C4-N9	6.06	129.64	126.00
1	N	925	G	C2-N3-C4	-6.06	108.87	111.90
1	N	1376	U	C2-N1-C1'	-6.06	110.43	117.70
1	N	107	G	N9-C4-C5	6.06	107.82	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	164	G	P-O3'-C3'	-6.06	112.43	119.70
1	N	203	G	C4'-C3'-C2'	-6.06	96.54	102.60
1	N	940	C	C5-C4-N4	-6.06	115.96	120.20
1	N	1456	A	O4'-C1'-N9	6.06	113.05	108.20
1	N	152	A	C4'-C3'-C2'	-6.06	96.54	102.60
1	N	230	G	N3-C2-N2	6.06	124.14	119.90
1	N	247	G	N7-C8-N9	6.06	116.13	113.10
1	N	354	G	C6-C5-N7	-6.06	126.77	130.40
1	N	391	G	C6-C5-N7	-6.06	126.77	130.40
1	N	472	U	O4'-C1'-N1	6.06	113.05	108.20
1	N	51	A	C3'-C2'-C1'	6.06	106.34	101.50
1	N	617	G	C5-C6-O6	-6.06	124.97	128.60
1	N	1081	A	O4'-C1'-N9	6.06	113.05	108.20
1	N	1177	G	C5-C6-O6	-6.06	124.97	128.60
1	N	1469	C	C2-N3-C4	6.06	122.93	119.90
1	N	1529	G	N3-C4-C5	-6.05	125.57	128.60
1	N	26	A	P-O5'-C5'	6.05	130.58	120.90
1	N	44	A	C5-C6-N6	-6.05	118.86	123.70
1	N	757	U	N1-C2-O2	-6.05	118.56	122.80
1	N	800	G	C5'-C4'-C3'	-6.05	106.32	116.00
1	N	1268	G	C6-N1-C2	-6.05	121.47	125.10
1	N	1521	C	N3-C4-N4	6.05	122.24	118.00
1	N	581	G	O4'-C1'-N9	6.05	113.04	108.20
1	N	1187	G	C1'-O4'-C4'	-6.05	105.06	109.90
1	N	1258	G	P-O5'-C5'	6.05	130.58	120.90
1	N	1377	A	C4-C5-N7	-6.05	107.68	110.70
1	N	263	A	N3-C4-C5	-6.05	122.57	126.80
1	N	1202	U	C6-N1-C2	-6.05	117.37	121.00
1	N	1487	G	C5-C6-N1	6.05	114.52	111.50
1	N	1500	A	C5-C6-N1	-6.05	114.68	117.70
1	N	418	C	C6-N1-C2	-6.05	117.88	120.30
1	N	870	U	C2-N3-C4	-6.05	123.37	127.00
1	N	1018	G	O4'-C4'-C3'	-6.05	97.95	104.00
1	N	1053	G	O4'-C1'-N9	6.05	113.04	108.20
1	N	1163	A	C5-N7-C8	6.05	106.92	103.90
1	N	1361	G	C8-N9-C4	-6.05	103.98	106.40
1	N	270	A	C4-C5-N7	-6.04	107.68	110.70
1	N	747	A	C5-C6-N1	-6.04	114.68	117.70
1	N	623	C	O4'-C1'-N1	6.04	113.03	108.20
1	N	821	G	N1-C2-N3	-6.04	120.27	123.90
1	N	1102	A	N3-C4-C5	-6.04	122.57	126.80
1	N	1296	C	C5-C4-N4	-6.04	115.97	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	41	G	O4'-C1'-N9	6.04	113.03	108.20
1	N	557	G	C1'-O4'-C4'	-6.04	105.07	109.90
1	N	1244	G	C6-C5-N7	-6.04	126.78	130.40
1	N	1461	G	P-O3'-C3'	-6.04	112.45	119.70
1	N	313	A	P-O3'-C3'	-6.04	112.45	119.70
1	N	450	G	C2'-C3'-O3'	6.04	123.36	113.70
1	N	1005	A	C8-N9-C4	6.04	108.22	105.80
1	N	1305	G	N3-C4-N9	-6.04	122.38	126.00
1	N	1169	A	C4-C5-C6	6.04	120.02	117.00
1	N	96	U	N3-C4-O4	-6.04	115.17	119.40
1	N	145	G	C4-C5-C6	6.04	122.42	118.80
1	N	201	G	N1-C2-N3	-6.04	120.28	123.90
1	N	673	A	C2-N3-C4	-6.04	107.58	110.60
1	N	1375	A	N3-C4-C5	-6.04	122.57	126.80
1	N	1448	C	P-O3'-C3'	6.04	126.94	119.70
1	N	1464	U	C5-C4-O4	-6.04	122.28	125.90
1	N	1506	U	C6-N1-C2	6.04	124.62	121.00
1	N	186	C	O4'-C1'-N1	6.03	113.03	108.20
1	N	350	G	C4-C5-N7	6.03	113.21	110.80
1	N	741	G	O4'-C1'-N9	6.03	113.03	108.20
1	N	1131	G	N3-C4-N9	6.03	129.62	126.00
1	N	1303	C	C5'-C4'-O4'	-6.03	101.86	109.10
1	N	538	G	C5-C6-N1	6.03	114.52	111.50
1	N	771	G	C8-N9-C4	-6.03	103.99	106.40
1	N	1156	G	C1'-O4'-C4'	6.03	114.72	109.90
1	N	1182	G	C4-C5-N7	-6.03	108.39	110.80
1	N	1319	A	C8-N9-C4	-6.03	103.39	105.80
1	N	1375	A	C5-C6-N1	-6.03	114.69	117.70
1	N	1494	G	C4'-C3'-C2'	-6.03	96.57	102.60
1	N	1520	C	O4'-C1'-N1	6.03	113.02	108.20
1	N	177	G	C5-C6-N1	-6.03	108.48	111.50
1	N	773	G	N3-C4-C5	6.03	131.61	128.60
1	N	941	G	O4'-C1'-N9	6.03	113.02	108.20
1	N	1053	G	N3-C2-N2	6.03	124.12	119.90
1	N	1302	C	C6-N1-C2	-6.03	117.89	120.30
1	N	240	G	C2-N3-C4	6.03	114.91	111.90
1	N	288	A	C6-C5-N7	-6.03	128.08	132.30
1	N	1259	C	C5-C4-N4	-6.03	115.98	120.20
1	N	384	G	C4-C5-N7	6.03	113.21	110.80
1	N	657	U	C5'-C4'-C3'	6.03	125.64	116.00
1	N	1525	G	P-O3'-C3'	-6.03	112.47	119.70
1	N	541	G	C4-C5-N7	6.02	113.21	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	576	C	C6-N1-C2	6.02	122.71	120.30
1	N	267	C	O4'-C1'-N1	6.02	113.02	108.20
1	N	739	C	N1-C2-N3	-6.02	114.98	119.20
1	N	859	G	C5-C6-N1	-6.02	108.49	111.50
1	N	1361	G	O3'-P-O5'	-6.02	92.56	104.00
1	N	337	G	N3-C2-N2	6.02	124.11	119.90
1	N	594	U	C5-C6-N1	6.02	125.71	122.70
1	N	1064	G	N7-C8-N9	-6.02	110.09	113.10
1	N	1068	G	O4'-C1'-N9	6.02	113.02	108.20
1	N	1324	A	C4-C5-C6	6.02	120.01	117.00
1	N	88	U	P-O3'-C3'	6.02	126.92	119.70
1	N	255	G	C4-C5-C6	6.02	122.41	118.80
1	N	937	A	C6-N1-C2	6.02	122.21	118.60
1	N	1186	G	N7-C8-N9	-6.02	110.09	113.10
1	N	1421	G	N3-C2-N2	6.02	124.11	119.90
1	N	1024	G	P-O3'-C3'	-6.02	112.48	119.70
1	N	923	A	C4-N9-C1'	6.01	137.13	126.30
1	N	1035	A	C5-C6-N1	-6.01	114.69	117.70
1	N	643	C	N3-C4-C5	-6.01	119.50	121.90
1	N	1168	U	C2-N3-C4	-6.01	123.39	127.00
1	N	126	G	C4'-C3'-C2'	-6.01	96.59	102.60
1	N	583	A	N1-C6-N6	6.01	122.21	118.60
1	N	751	U	N3-C4-O4	6.01	123.61	119.40
1	N	1035	A	C4-C5-N7	6.01	113.71	110.70
1	N	1139	G	C5'-C4'-O4'	6.01	116.31	109.10
1	N	298	A	N1-C2-N3	6.01	132.31	129.30
1	N	559	A	O4'-C1'-N9	6.01	113.01	108.20
1	N	815	A	O4'-C1'-N9	6.01	113.01	108.20
1	N	966	G	O4'-C1'-N9	6.01	113.01	108.20
1	N	976	G	N1-C2-N3	-6.01	120.29	123.90
1	N	794	A	C8-N9-C4	6.01	108.20	105.80
1	N	884	U	C5-C6-N1	-6.01	119.70	122.70
1	N	890	G	N1-C6-O6	6.01	123.50	119.90
1	N	995	C	O4'-C4'-C3'	-6.01	97.99	104.00
1	N	1145	A	P-O3'-C3'	6.01	126.91	119.70
1	N	1272	G	C2'-C3'-O3'	6.01	123.31	113.70
1	N	1304	G	P-O5'-C5'	6.01	130.51	120.90
1	N	1485	U	C5'-C4'-O4'	6.01	116.31	109.10
1	N	604	G	N1-C2-N2	-6.00	110.80	116.20
1	N	717	U	C5'-C4'-O4'	6.00	116.31	109.10
1	N	373	A	C2-N3-C4	6.00	113.60	110.60
1	N	631	C	C2-N1-C1'	6.00	125.40	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	872	A	P-O3'-C3'	6.00	126.91	119.70
1	N	457	G	C2-N3-C4	-6.00	108.90	111.90
1	N	776	G	N7-C8-N9	6.00	116.10	113.10
1	N	1273	C	C6-N1-C2	-6.00	117.90	120.30
1	N	187	G	C4-C5-C6	6.00	122.40	118.80
1	N	560	A	C3'-C2'-C1'	6.00	106.30	101.50
1	N	854	U	C4'-C3'-C2'	-6.00	96.60	102.60
1	N	1182	G	C1'-O4'-C4'	-6.00	105.10	109.90
1	N	30	U	C4'-C3'-C2'	6.00	108.60	102.60
1	N	308	C	N3-C4-N4	6.00	122.20	118.00
1	N	980	C	N1-C2-O2	6.00	122.50	118.90
1	N	1266	G	C4-C5-C6	6.00	122.40	118.80
1	N	1433	A	P-O3'-C3'	6.00	126.90	119.70
1	N	1470	U	C5-C6-N1	-6.00	119.70	122.70
1	N	808	C	C1'-O4'-C4'	6.00	114.70	109.90
1	N	934	C	N1-C2-O2	-6.00	115.30	118.90
1	N	1046	A	C6-C5-N7	-6.00	128.10	132.30
1	N	1349	A	OP1-P-OP2	-6.00	110.61	119.60
1	N	215	C	C6-N1-C2	-6.00	117.90	120.30
1	N	419	C	C2-N1-C1'	-6.00	112.20	118.80
1	N	204	G	C5-C6-O6	-5.99	125.00	128.60
1	N	645	G	N7-C8-N9	-5.99	110.10	113.10
1	N	1144	G	C2-N3-C4	-5.99	108.90	111.90
1	N	1316	G	C5-C6-N1	-5.99	108.50	111.50
1	N	871	U	C5-C6-N1	5.99	125.70	122.70
1	N	906	A	N9-C4-C5	-5.99	103.40	105.80
1	N	27	G	N3-C2-N2	5.99	124.09	119.90
1	N	517	G	C6-C5-N7	-5.99	126.81	130.40
1	N	555	U	N3-C2-O2	5.99	126.39	122.20
1	N	876	C	N3-C4-N4	5.99	122.19	118.00
1	N	1396	A	P-O3'-C3'	5.99	126.89	119.70
1	N	214	C	C1'-O4'-C4'	-5.99	105.11	109.90
1	N	314	C	P-O3'-C3'	-5.99	112.51	119.70
1	N	616	G	N3-C2-N2	5.99	124.09	119.90
1	N	796	C	C4'-C3'-C2'	-5.99	96.61	102.60
1	N	1210	C	N1-C2-N3	-5.99	115.01	119.20
1	N	1333	A	C8-N9-C4	-5.99	103.41	105.80
1	N	233	C	O4'-C1'-N1	5.99	112.99	108.20
1	N	282	A	C4-C5-C6	5.99	119.99	117.00
1	N	296	U	N3-C2-O2	5.99	126.39	122.20
1	N	411	A	O4'-C1'-N9	5.99	112.99	108.20
1	N	599	C	N3-C4-C5	-5.99	119.51	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	939	G	C4-N9-C1'	-5.99	118.72	126.50
1	N	1079	G	N3-C2-N2	5.98	124.09	119.90
1	N	1255	G	N3-C4-C5	5.98	131.59	128.60
1	N	1510	C	C5'-C4'-O4'	5.98	116.28	109.10
1	N	45	G	N1-C2-N3	-5.98	120.31	123.90
1	N	255	G	C5-C6-N1	-5.98	108.51	111.50
1	N	1152	A	N7-C8-N9	-5.98	110.81	113.80
1	N	1330	U	O4'-C1'-N1	5.98	112.99	108.20
1	N	1449	C	C2-N3-C4	5.98	122.89	119.90
1	N	837	U	N3-C4-O4	5.98	123.59	119.40
1	N	1254	A	C5-C6-N6	-5.98	118.92	123.70
1	N	105	G	N1-C2-N3	-5.98	120.31	123.90
1	N	373	A	C5'-C4'-O4'	-5.98	101.93	109.10
1	N	454	G	N9-C4-C5	5.98	107.79	105.40
1	N	470	C	C5-C4-N4	-5.98	116.02	120.20
1	N	710	G	N1-C6-O6	5.98	123.49	119.90
1	N	1080	A	C8-N9-C4	-5.98	103.41	105.80
1	N	1206	G	C8-N9-C4	-5.98	104.01	106.40
1	N	691	G	C5-C6-O6	-5.98	125.01	128.60
1	N	706	A	C6-C5-N7	-5.98	128.12	132.30
1	N	80	A	C4-C5-C6	5.97	119.99	117.00
1	N	335	C	C5'-C4'-C3'	5.97	125.56	116.00
1	N	550	G	C4-C5-N7	-5.97	108.41	110.80
1	N	668	G	C8-N9-C1'	-5.97	119.23	127.00
1	N	791	G	C6-N1-C2	-5.97	121.52	125.10
1	N	1362	A	C4-C5-C6	5.97	119.99	117.00
1	N	1465	A	N3-C4-C5	5.97	130.98	126.80
1	N	336	A	O4'-C4'-C3'	-5.97	98.03	104.00
1	N	670	G	C6-N1-C2	-5.97	121.52	125.10
1	N	994	A	N7-C8-N9	-5.97	110.81	113.80
1	N	7	A	O3'-P-O5'	-5.97	92.66	104.00
1	N	527	G	N1-C2-N2	5.97	121.57	116.20
1	N	1105	A	C8-N9-C4	-5.97	103.41	105.80
1	N	108	G	N3-C4-C5	5.97	131.59	128.60
1	N	261	U	C6-N1-C2	-5.97	117.42	121.00
1	N	800	G	N9-C4-C5	-5.97	103.01	105.40
1	N	909	A	C2-N3-C4	-5.97	107.61	110.60
1	N	1164	G	N9-C4-C5	5.97	107.79	105.40
1	N	1347	G	C6-C5-N7	-5.97	126.82	130.40
1	N	1471	U	O4'-C1'-N1	5.97	112.97	108.20
1	N	119	A	N3-C4-C5	-5.97	122.62	126.80
1	N	1365	G	N3-C2-N2	5.97	124.08	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	56	U	P-O3'-C3'	-5.97	112.54	119.70
1	N	490	C	OP1-P-OP2	-5.97	110.65	119.60
1	N	27	G	N3-C4-C5	-5.96	125.62	128.60
1	N	325	A	P-O3'-C3'	-5.96	112.54	119.70
1	N	578	C	C6-N1-C2	-5.96	117.91	120.30
1	N	959	A	P-O3'-C3'	5.96	126.86	119.70
1	N	1274	A	N3-C4-C5	-5.96	122.63	126.80
1	N	592	G	C2-N3-C4	5.96	114.88	111.90
1	N	854	U	C5-C4-O4	5.96	129.48	125.90
1	N	1124	G	C2-N3-C4	-5.96	108.92	111.90
1	N	1293	C	C6-N1-C2	-5.96	117.92	120.30
1	N	1312	G	C5'-C4'-C3'	-5.96	106.46	116.00
1	N	1494	G	N3-C2-N2	5.96	124.07	119.90
1	N	562	U	P-O3'-C3'	-5.96	112.55	119.70
1	N	677	U	C5'-C4'-O4'	5.96	116.25	109.10
1	N	973	G	C5-N7-C8	-5.96	101.32	104.30
1	N	1328	C	N3-C4-C5	-5.96	119.52	121.90
1	N	196	A	C6-C5-N7	-5.96	128.13	132.30
1	N	229	U	C1'-O4'-C4'	5.96	114.67	109.90
1	N	1263	C	P-O5'-C5'	5.96	130.43	120.90
1	N	112	G	C5-N7-C8	-5.96	101.32	104.30
1	N	120	A	C4'-C3'-C2'	-5.96	96.64	102.60
1	N	867	G	C6-N1-C2	5.96	128.67	125.10
1	N	1009	U	C1'-O4'-C4'	5.96	114.67	109.90
1	N	1124	G	N1-C6-O6	5.96	123.47	119.90
1	N	1428	A	N1-C2-N3	-5.96	126.32	129.30
1	N	664	G	C1'-O4'-C4'	-5.96	105.14	109.90
1	N	72	A	O4'-C1'-N9	5.95	112.96	108.20
1	N	180	U	C5-C4-O4	-5.95	122.33	125.90
1	N	417	G	C8-N9-C4	5.95	108.78	106.40
1	N	482	A	C6-N1-C2	-5.95	115.03	118.60
1	N	692	U	C6-N1-C2	-5.95	117.43	121.00
1	N	729	A	C5-C6-N1	-5.95	114.72	117.70
1	N	1138	G	N3-C4-C5	5.95	131.58	128.60
1	N	1290	G	O4'-C1'-N9	5.95	112.96	108.20
1	N	1426	G	C6-C5-N7	-5.95	126.83	130.40
1	N	174	A	C5-C6-N1	-5.95	114.72	117.70
1	N	297	G	O4'-C1'-N9	5.95	112.96	108.20
1	N	467	U	O4'-C4'-C3'	-5.95	98.05	104.00
1	N	908	A	O4'-C1'-N9	5.95	112.96	108.20
1	N	1223	C	O4'-C1'-N1	5.95	112.96	108.20
1	N	108	G	N1-C2-N2	-5.95	110.85	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	167	A	C5-C6-N1	-5.95	114.73	117.70
1	N	372	C	N1-C2-O2	5.95	122.47	118.90
1	N	427	U	C4-C5-C6	5.95	123.27	119.70
1	N	831	A	C3'-C2'-C1'	-5.95	96.74	101.50
1	N	1281	C	C6-N1-C1'	-5.95	113.66	120.80
1	N	1336	C	C2-N3-C4	-5.95	116.92	119.90
1	N	641	U	C2-N3-C4	5.95	130.57	127.00
1	N	761	G	N3-C4-C5	5.95	131.57	128.60
1	N	1066	C	C2-N3-C4	5.95	122.87	119.90
1	N	1165	U	N3-C4-O4	5.95	123.56	119.40
1	N	405	U	C4-C5-C6	5.95	123.27	119.70
1	N	828	U	C6-N1-C2	-5.95	117.43	121.00
1	N	1166	G	C4-C5-N7	-5.95	108.42	110.80
1	N	1269	A	C5'-C4'-C3'	5.95	125.51	116.00
1	N	1392	G	C6-C5-N7	-5.95	126.83	130.40
1	N	1436	U	C1'-O4'-C4'	5.95	114.66	109.90
1	N	99	C	O3'-P-O5'	-5.94	92.71	104.00
1	N	741	G	C6-N1-C2	5.94	128.67	125.10
1	N	677	U	O4'-C1'-N1	5.94	112.95	108.20
1	N	880	C	C4-C5-C6	5.94	120.37	117.40
1	N	1139	G	C1'-O4'-C4'	5.94	114.65	109.90
1	N	1176	A	P-O5'-C5'	5.94	130.41	120.90
1	N	828	U	C5'-C4'-C3'	5.94	125.50	116.00
1	N	1358	U	N3-C4-O4	5.94	123.56	119.40
1	N	520	A	N9-C4-C5	5.94	108.18	105.80
1	N	1009	U	N3-C2-O2	5.94	126.36	122.20
1	N	1146	A	N1-C2-N3	-5.94	126.33	129.30
1	N	1517	G	C5'-C4'-O4'	5.94	116.22	109.10
1	N	118	U	C6-N1-C2	-5.94	117.44	121.00
1	N	581	G	P-O5'-C5'	5.94	130.40	120.90
1	N	1078	U	N1-C2-O2	-5.94	118.64	122.80
1	N	211	G	N7-C8-N9	-5.93	110.13	113.10
1	N	303	A	C5-C6-N1	-5.93	114.73	117.70
1	N	608	A	C1'-O4'-C4'	-5.93	105.15	109.90
1	N	694	A	C4-C5-N7	-5.93	107.73	110.70
1	N	822	U	O4'-C1'-N1	5.93	112.95	108.20
1	N	824	G	C8-N9-C4	-5.93	104.03	106.40
1	N	836	G	N3-C4-C5	-5.93	125.63	128.60
1	N	898	G	O4'-C1'-N9	5.93	112.95	108.20
1	N	972	C	N3-C4-C5	-5.93	119.53	121.90
1	N	1153	G	C8-N9-C1'	5.93	134.71	127.00
1	N	1379	G	N9-C4-C5	5.93	107.77	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1420	U	O4'-C1'-N1	5.93	112.95	108.20
1	N	401	C	P-O3'-C3'	-5.93	112.58	119.70
1	N	492	C	C6-N1-C1'	-5.93	113.68	120.80
1	N	632	U	C3'-C2'-C1'	5.93	106.25	101.50
1	N	913	A	P-O5'-C5'	-5.93	111.41	120.90
1	N	1174	G	C4'-C3'-C2'	-5.93	96.67	102.60
1	N	69	G	N1-C6-O6	5.93	123.46	119.90
1	N	82	G	O3'-P-O5'	5.93	115.27	104.00
1	N	133	U	N3-C4-O4	5.93	123.55	119.40
1	N	177	G	C5-C6-O6	-5.93	125.04	128.60
1	N	317	U	N3-C4-C5	-5.93	111.04	114.60
1	N	1092	A	N9-C4-C5	5.93	108.17	105.80
1	N	493	A	O4'-C1'-C2'	5.93	112.94	107.60
1	N	1407	C	N3-C4-N4	5.93	122.15	118.00
1	N	88	U	C4-C5-C6	-5.93	116.14	119.70
1	N	818	G	C5-C6-N1	5.93	114.46	111.50
1	N	1319	A	OP1-P-OP2	-5.93	110.71	119.60
1	N	71	A	N1-C2-N3	5.92	132.26	129.30
1	N	319	G	C3'-C2'-C1'	5.92	106.24	101.50
1	N	978	A	C4-C5-C6	5.92	119.96	117.00
1	N	1531	A	C4-C5-N7	-5.92	107.74	110.70
1	N	232	G	C6-C5-N7	-5.92	126.85	130.40
1	N	1159	U	C4'-C3'-C2'	5.92	108.52	102.60
1	N	451	A	N1-C2-N3	5.92	132.26	129.30
1	N	625	U	C5-C4-O4	5.92	129.45	125.90
1	N	4	U	C5-C4-O4	-5.92	122.35	125.90
1	N	185	U	C2-N1-C1'	5.92	124.80	117.70
1	N	499	A	C3'-C2'-C1'	5.92	106.23	101.50
1	N	611	C	C5-C4-N4	5.92	124.34	120.20
1	N	1151	A	C5'-C4'-O4'	-5.92	102.00	109.10
1	N	1178	G	C6-N1-C2	5.92	128.65	125.10
1	N	1188	A	O4'-C1'-N9	5.92	112.93	108.20
1	N	1241	G	C5-C6-N1	-5.92	108.54	111.50
1	N	141	G	N9-C1'-C2'	-5.92	105.49	112.00
1	N	177	G	P-O3'-C3'	-5.92	112.60	119.70
1	N	732	C	C5-C4-N4	-5.92	116.06	120.20
1	N	787	A	C3'-C2'-C1'	-5.92	96.77	101.50
1	N	1033	G	N1-C2-N3	-5.92	120.35	123.90
1	N	1467	C	N1-C2-O2	5.92	122.45	118.90
1	N	359	G	C4-C5-N7	5.91	113.17	110.80
1	N	881	G	O4'-C1'-N9	5.91	112.93	108.20
1	N	959	A	C5-N7-C8	5.91	106.86	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1152	A	C5-C6-N6	-5.91	118.97	123.70
1	N	1348	U	N3-C2-O2	-5.91	118.06	122.20
1	N	357	G	N3-C4-N9	-5.91	122.45	126.00
1	N	431	A	C5'-C4'-O4'	5.91	116.19	109.10
1	N	472	U	N3-C4-O4	5.91	123.54	119.40
1	N	1083	U	N3-C4-C5	-5.91	111.05	114.60
1	N	1475	G	N7-C8-N9	-5.91	110.14	113.10
1	N	39	G	C5'-C4'-C3'	-5.91	106.55	116.00
1	N	68	G	C8-N9-C4	-5.91	104.04	106.40
1	N	265	G	C5-C6-O6	-5.91	125.05	128.60
1	N	853	C	N3-C4-N4	5.91	122.14	118.00
1	N	1072	G	C5-C6-O6	-5.91	125.06	128.60
1	N	1280	A	N3-C4-C5	5.91	130.94	126.80
1	N	1382	C	N3-C4-N4	5.91	122.14	118.00
1	N	732	C	C4-C5-C6	5.91	120.35	117.40
1	N	1415	G	O4'-C1'-N9	5.91	112.93	108.20
1	N	582	C	C4'-C3'-C2'	-5.91	96.69	102.60
1	N	754	C	C3'-C2'-C1'	5.91	106.22	101.50
1	N	937	A	C5-C6-N1	-5.91	114.75	117.70
1	N	1041	G	O4'-C4'-C3'	-5.91	98.09	104.00
1	N	3	A	N1-C6-N6	5.90	122.14	118.60
1	N	205	A	C5-C6-N1	-5.90	114.75	117.70
1	N	411	A	C6-N1-C2	5.90	122.14	118.60
1	N	999	C	C1'-O4'-C4'	5.90	114.62	109.90
1	N	1263	C	C4-C5-C6	-5.90	114.45	117.40
1	N	1351	U	O4'-C1'-N1	5.90	112.92	108.20
1	N	453	G	C5-C6-O6	-5.90	125.06	128.60
1	N	703	G	O5'-P-OP2	-5.90	100.39	105.70
1	N	1116	U	N1-C2-N3	-5.90	111.36	114.90
1	N	1206	G	C3'-C2'-C1'	-5.90	96.78	101.50
1	N	1301	U	C5-C4-O4	5.90	129.44	125.90
1	N	502	A	N1-C2-N3	5.90	132.25	129.30
1	N	947	G	C6-C5-N7	-5.90	126.86	130.40
1	N	1346	A	C4-C5-N7	5.90	113.65	110.70
1	N	1170	A	C5-C6-N6	-5.90	118.98	123.70
1	N	1184	G	C5-C6-O6	-5.90	125.06	128.60
1	N	1300	G	C3'-C2'-C1'	-5.90	96.78	101.50
1	N	1480	A	N7-C8-N9	5.90	116.75	113.80
1	N	156	C	N3-C4-N4	5.89	122.12	118.00
1	N	371	A	C8-N9-C4	-5.89	103.44	105.80
1	N	568	G	N3-C4-N9	5.89	129.54	126.00
1	N	1291	U	O4'-C1'-N1	5.89	112.92	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1488	G	C5-C6-O6	-5.89	125.06	128.60
1	N	75	G	N9-C1'-C2'	-5.89	105.52	112.00
1	N	264	C	N3-C4-C5	-5.89	119.54	121.90
1	N	371	A	C6-C5-N7	-5.89	128.18	132.30
1	N	384	G	P-O5'-C5'	5.89	130.33	120.90
1	N	653	U	N3-C4-C5	-5.89	111.06	114.60
1	N	1029	U	P-O3'-C3'	-5.89	112.63	119.70
1	N	1094	G	N3-C2-N2	5.89	124.03	119.90
1	N	1306	A	C6-C5-N7	-5.89	128.18	132.30
1	N	532	A	C5-N7-C8	5.89	106.85	103.90
1	N	542	G	C4-C5-N7	5.89	113.16	110.80
1	N	562	U	O4'-C1'-N1	5.89	112.91	108.20
1	N	286	C	C5'-C4'-C3'	-5.89	106.58	116.00
1	N	298	A	N7-C8-N9	5.89	116.75	113.80
1	N	574	A	C4-C5-N7	-5.89	107.75	110.70
1	N	1431	A	N9-C4-C5	5.89	108.16	105.80
1	N	1482	G	P-O3'-C3'	5.89	126.77	119.70
1	N	424	G	C4-C5-C6	5.89	122.33	118.80
1	N	452	A	C4-C5-C6	5.89	119.94	117.00
1	N	634	C	N3-C4-C5	-5.89	119.55	121.90
1	N	1387	G	N3-C4-C5	-5.89	125.66	128.60
1	N	300	A	C5-C6-N1	-5.89	114.76	117.70
1	N	689	C	C5-C4-N4	-5.89	116.08	120.20
1	N	1253	G	C5-C6-O6	-5.89	125.07	128.60
1	N	1417	G	C5-C6-N1	-5.89	108.56	111.50
1	N	1431	A	C6-C5-N7	-5.89	128.18	132.30
1	N	1522	U	N3-C2-O2	-5.89	118.08	122.20
1	N	1090	U	C4'-C3'-C2'	-5.88	96.72	102.60
1	N	167	A	O4'-C1'-N9	5.88	112.91	108.20
1	N	506	G	C2-N3-C4	-5.88	108.96	111.90
1	N	529	G	C6-C5-N7	-5.88	126.87	130.40
1	N	710	G	C5-C6-O6	-5.88	125.07	128.60
1	N	335	C	C6-N1-C1'	-5.88	113.74	120.80
1	N	877	G	C8-N9-C4	-5.88	104.05	106.40
1	N	947	G	N3-C4-C5	-5.88	125.66	128.60
1	N	334	C	C2-N1-C1'	5.88	125.27	118.80
1	N	1084	G	P-O3'-C3'	5.88	126.75	119.70
1	N	1290	G	N1-C2-N3	-5.88	120.37	123.90
1	N	349	A	C6-C5-N7	-5.88	128.19	132.30
1	N	545	C	N3-C4-C5	-5.88	119.55	121.90
1	N	934	C	N3-C4-N4	5.88	122.11	118.00
1	N	1367	C	C2-N3-C4	5.88	122.84	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	708	C	C5-C6-N1	5.88	123.94	121.00
1	N	792	A	N3-C4-C5	-5.88	122.69	126.80
1	N	264	C	C2-N1-C1'	5.87	125.26	118.80
1	N	448	A	C5-C6-N6	-5.87	119.00	123.70
1	N	652	U	C2-N1-C1'	-5.87	110.65	117.70
1	N	1061	G	O4'-C1'-N9	5.87	112.90	108.20
1	N	1064	G	C5'-C4'-O4'	5.87	116.15	109.10
1	N	1088	G	C4-C5-C6	5.87	122.32	118.80
1	N	1155	A	C3'-C2'-C1'	5.87	106.20	101.50
1	N	1314	C	OP1-P-OP2	-5.87	110.79	119.60
1	N	488	C	C1'-O4'-C4'	5.87	114.60	109.90
1	N	641	U	C5-C6-N1	5.87	125.64	122.70
1	N	661	G	C4-C5-N7	5.87	113.15	110.80
1	N	917	G	C2-N3-C4	5.87	114.84	111.90
1	N	1134	G	C3'-C2'-C1'	-5.87	96.80	101.50
1	N	1458	G	N1-C6-O6	5.87	123.42	119.90
1	N	50	A	C3'-C2'-C1'	-5.87	96.80	101.50
1	N	101	A	C5-N7-C8	5.87	106.83	103.90
1	N	168	G	C4'-C3'-C2'	-5.87	96.73	102.60
1	N	203	G	C5'-C4'-C3'	5.87	125.39	116.00
1	N	1217	C	C3'-C2'-C1'	-5.87	96.80	101.50
1	N	1524	C	C4-C5-C6	-5.87	114.47	117.40
1	N	144	G	C1'-O4'-C4'	5.87	114.59	109.90
1	N	355	C	C4-C5-C6	-5.87	114.47	117.40
1	N	1206	G	C6-C5-N7	-5.87	126.88	130.40
1	N	378	G	N1-C2-N3	-5.87	120.38	123.90
1	N	21	G	N3-C2-N2	5.87	124.00	119.90
1	N	289	G	N3-C2-N2	5.87	124.01	119.90
1	N	683	G	N1-C2-N2	-5.87	110.92	116.20
1	N	1235	U	C4'-C3'-C2'	-5.87	96.73	102.60
1	N	76	G	C5'-C4'-C3'	-5.86	106.62	116.00
1	N	142	G	N1-C2-N2	-5.86	110.92	116.20
1	N	847	G	C5-C6-O6	-5.86	125.08	128.60
1	N	1106	G	C1'-O4'-C4'	5.86	114.59	109.90
1	N	1157	A	C4-C5-N7	5.86	113.63	110.70
1	N	1426	G	N7-C8-N9	-5.86	110.17	113.10
1	N	57	G	N1-C2-N2	5.86	121.48	116.20
1	N	1042	A	C4'-C3'-C2'	-5.86	96.74	102.60
1	N	1149	C	C5-C4-N4	-5.86	116.10	120.20
1	N	1212	U	P-O3'-C3'	5.86	126.73	119.70
1	N	1442	G	C6-C5-N7	-5.86	126.89	130.40
1	N	213	G	C2-N3-C4	5.86	114.83	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	280	C	C5-C4-N4	-5.86	116.10	120.20
1	N	379	C	N1-C2-N3	-5.86	115.10	119.20
1	N	528	C	O5'-C5'-C4'	-5.86	100.57	111.70
1	N	946	A	C5-C6-N1	-5.86	114.77	117.70
1	N	1036	A	N9-C4-C5	5.86	108.14	105.80
1	N	1279	G	N7-C8-N9	-5.86	110.17	113.10
1	N	465	A	N3-C4-N9	5.86	132.09	127.40
1	N	1297	G	C4-N9-C1'	5.86	134.11	126.50
1	N	1402	C	C5'-C4'-C3'	5.86	125.37	116.00
1	N	1306	A	N7-C8-N9	5.85	116.73	113.80
1	N	1314	C	N3-C4-N4	5.85	122.10	118.00
1	N	104	G	C4-C5-C6	5.85	122.31	118.80
1	N	816	A	C5-C6-N6	-5.85	119.02	123.70
1	N	1064	G	C4-C5-N7	-5.85	108.46	110.80
1	N	1443	C	N3-C4-C5	-5.85	119.56	121.90
1	N	1102	A	C5-C6-N6	-5.85	119.02	123.70
1	N	1271	A	C4'-C3'-C2'	-5.85	96.75	102.60
1	N	1503	A	N9-C4-C5	5.85	108.14	105.80
1	N	33	A	N1-C2-N3	-5.85	126.38	129.30
1	N	37	U	N1-C2-N3	-5.85	111.39	114.90
1	N	470	C	C3'-C2'-C1'	-5.85	96.82	101.50
1	N	498	A	C5-C6-N1	-5.85	114.78	117.70
1	N	557	G	O3'-P-O5'	-5.85	92.89	104.00
1	N	937	A	C5-C6-N6	-5.85	119.02	123.70
1	N	968	A	C1'-O4'-C4'	-5.85	105.22	109.90
1	N	1309	G	C5-N7-C8	5.85	107.22	104.30
1	N	300	A	N3-C4-C5	-5.85	122.71	126.80
1	N	479	U	C4-C5-C6	-5.85	116.19	119.70
1	N	511	C	N3-C4-N4	5.85	122.09	118.00
1	N	915	A	C4-C5-C6	5.85	119.92	117.00
1	N	982	U	C4'-C3'-C2'	5.85	108.45	102.60
1	N	1086	U	C5'-C4'-C3'	-5.85	106.64	116.00
1	N	1231	G	C5-N7-C8	-5.85	101.38	104.30
1	N	1256	A	C5-C6-N1	-5.85	114.78	117.70
1	N	1486	G	C5'-C4'-C3'	5.85	125.36	116.00
1	N	648	A	C4-C5-N7	-5.85	107.78	110.70
1	N	104	G	C5-C6-O6	-5.84	125.09	128.60
1	N	150	U	N1-C2-N3	-5.84	111.39	114.90
1	N	299	G	N7-C8-N9	-5.84	110.18	113.10
1	N	670	G	C8-N9-C1'	5.84	134.60	127.00
1	N	1068	G	C8-N9-C1'	-5.84	119.40	127.00
1	N	1152	A	P-O5'-C5'	-5.84	111.55	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1286	U	O3'-P-O5'	-5.84	92.90	104.00
1	N	1304	G	O4'-C1'-N9	5.84	112.87	108.20
1	N	1528	U	C5-C4-O4	5.84	129.41	125.90
1	N	265	G	N7-C8-N9	-5.84	110.18	113.10
1	N	456	A	C5-C6-N6	-5.84	119.03	123.70
1	N	1026	G	N3-C4-C5	5.84	131.52	128.60
1	N	1090	U	N3-C2-O2	5.84	126.29	122.20
1	N	1158	C	N3-C2-O2	-5.84	117.81	121.90
1	N	141	G	C4-C5-C6	5.84	122.30	118.80
1	N	164	G	C4-N9-C1'	5.84	134.09	126.50
1	N	824	G	N1-C6-O6	5.84	123.40	119.90
1	N	1125	U	N1-C2-N3	-5.84	111.40	114.90
1	N	1252	A	N9-C4-C5	5.84	108.14	105.80
1	N	1266	G	C8-N9-C4	-5.84	104.06	106.40
1	N	1487	G	P-O5'-C5'	5.84	130.25	120.90
1	N	509	A	O4'-C1'-N9	5.84	112.87	108.20
1	N	561	U	N3-C2-O2	-5.84	118.11	122.20
1	N	1306	A	C5-N7-C8	-5.84	100.98	103.90
1	N	491	G	C5'-C4'-C3'	-5.83	106.66	116.00
1	N	1224	U	P-O5'-C5'	5.83	130.24	120.90
1	N	427	U	O5'-P-OP2	-5.83	100.45	105.70
1	N	454	G	C4-C5-C6	5.83	122.30	118.80
1	N	873	A	C5'-C4'-O4'	5.83	116.10	109.10
1	N	1158	C	C3'-C2'-C1'	5.83	106.17	101.50
1	N	1394	A	C2-N3-C4	5.83	113.52	110.60
1	N	229	U	C6-N1-C2	5.83	124.50	121.00
1	N	288	A	C2-N3-C4	-5.83	107.69	110.60
1	N	438	U	N1-C2-N3	5.83	118.40	114.90
1	N	711	G	C4-C5-N7	-5.83	108.47	110.80
1	N	905	U	C2-N3-C4	-5.83	123.50	127.00
1	N	1001	C	C4'-C3'-C2'	-5.83	96.77	102.60
1	N	1196	A	N3-C4-C5	-5.83	122.72	126.80
1	N	1327	C	C5-C6-N1	5.83	123.92	121.00
1	N	428	G	C5-C6-O6	-5.83	125.10	128.60
1	N	1186	G	O4'-C1'-N9	5.83	112.86	108.20
1	N	84	U	N1-C2-N3	-5.83	111.40	114.90
1	N	217	C	N1-C2-O2	-5.83	115.40	118.90
1	N	709	U	O4'-C1'-N1	5.83	112.86	108.20
1	N	802	A	C4-C5-C6	5.83	119.92	117.00
1	N	1514	G	C8-N9-C4	-5.83	104.07	106.40
1	N	416	G	C4-C5-N7	-5.83	108.47	110.80
1	N	985	C	N3-C2-O2	5.83	125.98	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	80	A	C4-C5-N7	-5.83	107.79	110.70
1	N	438	U	OP1-P-OP2	-5.83	110.86	119.60
1	N	661	G	N3-C4-N9	5.83	129.50	126.00
1	N	842	U	C2-N1-C1'	5.83	124.69	117.70
1	N	1430	A	OP2-P-O3'	5.83	118.02	105.20
1	N	1390	U	N3-C4-O4	5.82	123.48	119.40
1	N	165	G	C3'-C2'-C1'	-5.82	96.84	101.50
1	N	427	U	N1-C2-N3	5.82	118.39	114.90
1	N	534	U	C5'-C4'-O4'	5.82	116.08	109.10
1	N	893	C	C4-C5-C6	5.82	120.31	117.40
1	N	1326	U	C2-N1-C1'	5.82	124.69	117.70
1	N	343	U	N3-C2-O2	-5.82	118.13	122.20
1	N	1388	C	C5-C6-N1	-5.82	118.09	121.00
1	N	481	G	C5'-C4'-O4'	-5.82	102.12	109.10
1	N	963	G	C4-C5-C6	5.82	122.29	118.80
1	N	1257	A	P-O3'-C3'	5.82	126.68	119.70
1	N	180	U	C2'-C3'-O3'	5.81	123.00	113.70
1	N	285	C	N1-C1'-C2'	-5.81	105.61	112.00
1	N	289	G	N9-C4-C5	-5.81	103.07	105.40
1	N	308	C	P-O3'-C3'	-5.81	112.72	119.70
1	N	1131	G	C1'-O4'-C4'	-5.81	105.25	109.90
1	N	1270	G	C5'-C4'-C3'	-5.81	106.70	116.00
1	N	339	C	N3-C4-N4	5.81	122.07	118.00
1	N	535	A	O4'-C1'-N9	5.81	112.85	108.20
1	N	1256	A	C3'-C2'-C1'	-5.81	96.85	101.50
1	N	1309	G	P-O5'-C5'	-5.81	111.60	120.90
1	N	661	G	N9-C4-C5	-5.81	103.08	105.40
1	N	159	G	N1-C6-O6	5.81	123.39	119.90
1	N	329	A	O5'-C5'-C4'	-5.81	100.66	111.70
1	N	348	G	P-O3'-C3'	5.81	126.67	119.70
1	N	731	G	C2-N3-C4	5.81	114.81	111.90
1	N	979	C	N3-C4-N4	5.81	122.07	118.00
1	N	1349	A	C4-C5-N7	-5.81	107.80	110.70
1	N	1488	G	N1-C2-N2	-5.81	110.97	116.20
1	N	518	C	O4'-C4'-C3'	5.81	110.75	106.10
1	N	837	U	N1-C2-N3	5.81	118.38	114.90
1	N	847	G	C4-C5-N7	5.81	113.12	110.80
1	N	1218	C	N3-C2-O2	5.81	125.97	121.90
1	N	1232	U	C3'-C2'-C1'	-5.81	96.86	101.50
1	N	1279	G	C6-C5-N7	-5.81	126.92	130.40
1	N	222	C	P-O3'-C3'	-5.81	112.73	119.70
1	N	353	A	C2-N3-C4	5.81	113.50	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1058	G	C5-N7-C8	-5.81	101.40	104.30
1	N	1463	U	C5-C6-N1	5.81	125.60	122.70
1	N	170	U	C2-N3-C4	-5.80	123.52	127.00
1	N	250	A	O4'-C1'-N9	5.80	112.84	108.20
1	N	805	C	C6-N1-C2	-5.80	117.98	120.30
1	N	1188	A	OP1-P-O3'	5.80	117.97	105.20
1	N	113	G	C4-C5-N7	-5.80	108.48	110.80
1	N	63	C	N1-C2-N3	-5.80	115.14	119.20
1	N	67	C	O4'-C1'-C2'	-5.80	100.00	105.80
1	N	718	A	C3'-C2'-C1'	5.80	106.14	101.50
1	N	758	C	N1-C2-O2	5.80	122.38	118.90
1	N	824	G	P-O3'-C3'	-5.80	112.74	119.70
1	N	840	C	C6-N1-C1'	-5.80	113.84	120.80
1	N	1209	C	C4-C5-C6	5.80	120.30	117.40
1	N	201	G	N3-C2-N2	5.80	123.96	119.90
1	N	257	G	N1-C2-N2	5.80	121.42	116.20
1	N	415	A	C6-N1-C2	5.80	122.08	118.60
1	N	564	C	C4-C5-C6	-5.80	114.50	117.40
1	N	914	A	C5'-C4'-C3'	-5.80	106.72	116.00
1	N	946	A	C5-C6-N6	-5.80	119.06	123.70
1	N	949	A	C8-N9-C4	5.80	108.12	105.80
1	N	1030	U	C4-C5-C6	5.80	123.18	119.70
1	N	313	A	N7-C8-N9	5.80	116.70	113.80
1	N	1393	U	O3'-P-O5'	-5.80	92.98	104.00
1	N	237	G	N3-C2-N2	5.80	123.96	119.90
1	N	346	G	C5'-C4'-C3'	-5.80	106.73	116.00
1	N	683	G	N7-C8-N9	-5.80	110.20	113.10
1	N	1484	C	C5-C6-N1	5.80	123.90	121.00
1	N	38	G	C4'-C3'-C2'	-5.79	96.81	102.60
1	N	431	A	C4-C5-N7	-5.79	107.80	110.70
1	N	1135	U	C6-N1-C2	-5.79	117.52	121.00
1	N	1140	C	OP2-P-O3'	5.79	117.95	105.20
1	N	1275	A	C8-N9-C4	-5.79	103.48	105.80
1	N	158	G	O4'-C1'-N9	5.79	112.83	108.20
1	N	258	G	C5-C6-N1	-5.79	108.60	111.50
1	N	361	G	C5-N7-C8	-5.79	101.40	104.30
1	N	942	G	C1'-O4'-C4'	-5.79	105.27	109.90
1	N	1108	G	N7-C8-N9	-5.79	110.20	113.10
1	N	1185	G	N9-C1'-C2'	-5.79	105.63	112.00
1	N	1279	G	C1'-O4'-C4'	5.79	114.53	109.90
1	N	1393	U	C2-N3-C4	5.79	130.48	127.00
1	N	66	A	C5-C6-N6	-5.79	119.07	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	622	A	C6-C5-N7	-5.79	128.25	132.30
1	N	1261	A	C8-N9-C4	-5.79	103.48	105.80
1	N	6	G	N1-C2-N3	-5.79	120.43	123.90
1	N	174	A	O5'-P-OP2	-5.79	100.49	105.70
1	N	250	A	C5-C6-N6	-5.79	119.07	123.70
1	N	330	C	N3-C4-C5	-5.79	119.58	121.90
1	N	353	A	C6-C5-N7	-5.79	128.25	132.30
1	N	376	G	C6-N1-C2	5.79	128.57	125.10
1	N	393	A	C4'-C3'-C2'	-5.79	96.81	102.60
1	N	484	G	N9-C4-C5	-5.79	103.08	105.40
1	N	631	C	N3-C4-C5	-5.79	119.58	121.90
1	N	717	U	C3'-C2'-C1'	5.79	106.13	101.50
1	N	808	C	C5-C4-N4	-5.79	116.15	120.20
1	N	246	A	C8-N9-C4	-5.79	103.48	105.80
1	N	301	G	C5-N7-C8	5.79	107.19	104.30
1	N	444	G	P-O3'-C3'	-5.79	112.76	119.70
1	N	460	A	O4'-C1'-N9	5.79	112.83	108.20
1	N	513	C	C5-C6-N1	5.79	123.89	121.00
1	N	575	G	C1'-O4'-C4'	5.79	114.53	109.90
1	N	3	A	N3-C4-C5	-5.79	122.75	126.80
1	N	904	U	C5'-C4'-O4'	5.79	116.04	109.10
1	N	971	G	C4'-C3'-C2'	5.79	108.39	102.60
1	N	1102	A	P-O5'-C5'	5.79	130.16	120.90
1	N	20	U	N3-C2-O2	5.78	126.25	122.20
1	N	1101	A	P-O5'-C5'	5.78	130.15	120.90
1	N	1247	U	C5-C6-N1	5.78	125.59	122.70
1	N	1248	A	O4'-C1'-N9	5.78	112.83	108.20
1	N	1270	G	C6-C5-N7	-5.78	126.93	130.40
1	N	43	C	N3-C4-C5	-5.78	119.59	121.90
1	N	440	C	P-O5'-C5'	5.78	130.15	120.90
1	N	565	U	C6-N1-C2	5.78	124.47	121.00
1	N	676	A	C2-N3-C4	-5.78	107.71	110.60
1	N	769	G	P-O5'-C5'	5.78	130.15	120.90
1	N	1248	A	C5-N7-C8	5.78	106.79	103.90
1	N	1415	G	C5-N7-C8	5.78	107.19	104.30
1	N	1482	G	N1-C6-O6	5.78	123.37	119.90
1	N	108	G	C5-N7-C8	5.78	107.19	104.30
1	N	426	U	O5'-C5'-C4'	-5.78	100.72	111.70
1	N	1091	U	C1'-O4'-C4'	5.78	114.52	109.90
1	N	380	G	C4-C5-C6	5.78	122.27	118.80
1	N	484	G	N7-C8-N9	-5.78	110.21	113.10
1	N	601	G	C6-N1-C2	5.78	128.57	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	816	A	N9-C4-C5	5.78	108.11	105.80
1	N	993	G	C5-N7-C8	-5.78	101.41	104.30
1	N	1404	C	C5'-C4'-O4'	5.78	116.03	109.10
1	N	987	G	C2-N3-C4	5.78	114.79	111.90
1	N	1006	G	N3-C2-N2	5.78	123.94	119.90
1	N	1187	G	N3-C4-C5	-5.78	125.71	128.60
1	N	1210	C	C3'-C2'-C1'	5.78	106.12	101.50
1	N	1183	U	C3'-C2'-C1'	-5.77	96.88	101.50
1	N	1513	A	C8-N9-C4	-5.77	103.49	105.80
1	N	93	U	N1-C1'-C2'	-5.77	105.65	112.00
1	N	168	G	C8-N9-C4	5.77	108.71	106.40
1	N	957	U	C2-N3-C4	-5.77	123.54	127.00
1	N	1092	A	C5'-C4'-O4'	-5.77	102.18	109.10
1	N	6	G	C4-N9-C1'	5.77	134.00	126.50
1	N	126	G	C5-C6-N1	-5.77	108.62	111.50
1	N	424	G	P-O5'-C5'	5.77	130.13	120.90
1	N	897	C	C2-N1-C1'	5.77	125.14	118.80
1	N	925	G	C5'-C4'-C3'	-5.77	106.77	116.00
1	N	1066	C	C6-N1-C1'	-5.77	113.88	120.80
1	N	1070	U	C5-C6-N1	5.77	125.58	122.70
1	N	1117	A	N1-C2-N3	5.77	132.18	129.30
1	N	1122	U	N3-C4-O4	5.77	123.44	119.40
1	N	1231	G	C4-C5-N7	5.77	113.11	110.80
1	N	1175	G	C4-C5-C6	5.77	122.26	118.80
1	N	278	G	C6-C5-N7	-5.76	126.94	130.40
1	N	504	C	O4'-C1'-N1	5.76	112.81	108.20
1	N	716	A	N7-C8-N9	5.76	116.68	113.80
1	N	731	G	C8-N9-C4	-5.76	104.09	106.40
1	N	776	G	N1-C2-N3	5.76	127.36	123.90
1	N	1140	C	O4'-C1'-N1	5.76	112.81	108.20
1	N	1320	C	O4'-C4'-C3'	-5.76	98.24	104.00
1	N	101	A	P-O3'-C3'	-5.76	112.78	119.70
1	N	692	U	O4'-C1'-N1	5.76	112.81	108.20
1	N	30	U	N3-C4-C5	-5.76	111.14	114.60
1	N	64	G	N7-C8-N9	5.76	115.98	113.10
1	N	68	G	C6-C5-N7	-5.76	126.94	130.40
1	N	181	A	N1-C2-N3	5.76	132.18	129.30
1	N	224	U	O4'-C1'-N1	5.76	112.81	108.20
1	N	505	G	C5'-C4'-O4'	5.76	116.01	109.10
1	N	527	G	C4'-C3'-C2'	-5.76	96.84	102.60
1	N	944	G	OP1-P-O3'	5.76	117.88	105.20
1	N	1448	C	N3-C4-N4	5.76	122.03	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	142	G	N3-C4-C5	-5.76	125.72	128.60
1	N	258	G	O4'-C1'-N9	5.76	112.81	108.20
1	N	435	A	C4-N9-C1'	5.76	136.67	126.30
1	N	586	C	N1-C2-O2	-5.76	115.44	118.90
1	N	868	C	P-O5'-C5'	5.76	130.11	120.90
1	N	1077	G	N1-C6-O6	5.76	123.36	119.90
1	N	1084	G	C8-N9-C4	5.76	108.70	106.40
1	N	374	A	C1'-O4'-C4'	5.76	114.51	109.90
1	N	1037	C	P-O3'-C3'	5.76	126.61	119.70
1	N	1117	A	C5-C6-N1	-5.76	114.82	117.70
1	N	1250	A	N7-C8-N9	-5.76	110.92	113.80
1	N	169	C	C5'-C4'-O4'	5.76	116.01	109.10
1	N	590	U	P-O3'-C3'	5.76	126.61	119.70
1	N	869	G	C6-C5-N7	-5.76	126.95	130.40
1	N	1020	G	C4-C5-N7	-5.76	108.50	110.80
1	N	1204	A	O4'-C1'-N9	5.76	112.81	108.20
1	N	1237	C	C1'-O4'-C4'	5.76	114.51	109.90
1	N	1331	G	C3'-C2'-C1'	5.76	106.11	101.50
1	N	412	A	C4'-C3'-C2'	-5.75	96.85	102.60
1	N	93	U	C4'-C3'-C2'	-5.75	96.85	102.60
1	N	265	G	C5-N7-C8	5.75	107.18	104.30
1	N	510	A	N3-C4-N9	-5.75	122.80	127.40
1	N	882	C	P-O3'-C3'	-5.75	112.80	119.70
1	N	1333	A	C5-C6-N1	-5.75	114.82	117.70
1	N	1423	G	C5-C6-O6	5.75	132.05	128.60
1	N	825	A	OP1-P-OP2	-5.75	110.97	119.60
1	N	938	A	C5-C6-N6	-5.75	119.10	123.70
1	N	995	C	C6-N1-C2	-5.75	118.00	120.30
1	N	1383	C	C2-N1-C1'	5.75	125.12	118.80
1	N	6	G	N7-C8-N9	5.75	115.97	113.10
1	N	266	G	C8-N9-C4	5.75	108.70	106.40
1	N	317	U	C4-C5-C6	5.75	123.15	119.70
1	N	509	A	C4'-C3'-C2'	-5.75	96.85	102.60
1	N	822	U	N1-C2-O2	-5.75	118.78	122.80
1	N	1412	C	N3-C4-N4	5.75	122.02	118.00
1	N	138	G	C4-C5-N7	5.75	113.10	110.80
1	N	431	A	N9-C4-C5	5.75	108.10	105.80
1	N	448	A	C6-C5-N7	-5.75	128.28	132.30
1	N	513	C	P-O3'-C3'	5.75	126.59	119.70
1	N	932	C	C5'-C4'-O4'	5.75	116.00	109.10
1	N	1260	G	C3'-C2'-C1'	-5.75	96.90	101.50
1	N	125	U	P-O5'-C5'	5.75	130.09	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	66	A	N7-C8-N9	-5.74	110.93	113.80
1	N	186	C	P-O3'-C3'	-5.74	112.81	119.70
1	N	363	A	P-O3'-C3'	5.74	126.59	119.70
1	N	542	G	C5-N7-C8	-5.74	101.43	104.30
1	N	620	C	C1'-O4'-C4'	5.74	114.50	109.90
1	N	122	G	O4'-C1'-C2'	-5.74	100.06	105.80
1	N	1361	G	C5-C6-N1	-5.74	108.63	111.50
1	N	63	C	N1-C1'-C2'	-5.74	105.69	112.00
1	N	97	G	C4-N9-C1'	5.74	133.96	126.50
1	N	304	U	N3-C2-O2	5.74	126.22	122.20
1	N	360	G	C5'-C4'-C3'	-5.74	106.81	116.00
1	N	404	G	C5-C6-N1	-5.74	108.63	111.50
1	N	701	U	C2-N1-C1'	-5.74	110.81	117.70
1	N	1239	A	C2'-C3'-O3'	5.74	122.88	113.70
1	N	1361	G	C5-C6-O6	-5.74	125.16	128.60
1	N	93	U	O4'-C4'-C3'	-5.74	98.26	104.00
1	N	364	A	N7-C8-N9	5.74	116.67	113.80
1	N	1061	G	N1-C2-N3	-5.74	120.46	123.90
1	N	1318	A	C8-N9-C4	5.74	108.09	105.80
1	N	1425	U	C5-C6-N1	-5.74	119.83	122.70
1	N	1492	A	P-O5'-C5'	5.74	130.08	120.90
1	N	181	A	N9-C4-C5	5.74	108.09	105.80
1	N	1269	A	C8-N9-C1'	5.74	138.03	127.70
1	N	928	G	C5'-C4'-C3'	-5.74	106.82	116.00
1	N	1045	C	C5-C4-N4	5.74	124.22	120.20
1	N	1061	G	C1'-O4'-C4'	5.74	114.49	109.90
1	N	1371	G	N9-C4-C5	-5.74	103.11	105.40
1	N	1530	G	N7-C8-N9	-5.74	110.23	113.10
1	N	244	U	C3'-C2'-C1'	5.73	106.09	101.50
1	N	581	G	C1'-O4'-C4'	-5.73	105.31	109.90
1	N	588	G	C8-N9-C4	-5.73	104.11	106.40
1	N	647	C	C2'-C3'-O3'	5.73	122.87	113.70
1	N	868	C	P-O3'-C3'	-5.73	112.82	119.70
1	N	918	A	C6-N1-C2	5.73	122.04	118.60
1	N	1412	C	C2-N1-C1'	-5.73	112.50	118.80
1	N	31	G	C3'-C2'-C1'	-5.73	96.92	101.50
1	N	388	G	P-O3'-C3'	5.73	126.58	119.70
1	N	407	U	C1'-O4'-C4'	5.73	114.48	109.90
1	N	183	C	N3-C4-C5	-5.73	119.61	121.90
1	N	532	A	C8-N9-C4	-5.73	103.51	105.80
1	N	549	C	C6-N1-C2	-5.73	118.01	120.30
1	N	880	C	P-O5'-C5'	5.73	130.07	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	22	G	C8-N9-C4	-5.73	104.11	106.40
1	N	376	G	C5-N7-C8	-5.73	101.44	104.30
1	N	785	G	C6-C5-N7	-5.73	126.96	130.40
1	N	767	A	C8-N9-C4	-5.73	103.51	105.80
1	N	809	G	C8-N9-C1'	5.73	134.44	127.00
1	N	1155	A	N3-C4-C5	-5.73	122.79	126.80
1	N	1180	A	P-O3'-C3'	5.73	126.57	119.70
1	N	151	A	C8-N9-C4	-5.72	103.51	105.80
1	N	193	C	C5-C6-N1	5.72	123.86	121.00
1	N	285	C	O4'-C1'-N1	5.72	112.78	108.20
1	N	465	A	P-O3'-C3'	5.72	126.57	119.70
1	N	740	U	C4'-C3'-C2'	-5.72	96.88	102.60
1	N	1029	U	O4'-C1'-N1	5.72	112.78	108.20
1	N	1370	G	C6-C5-N7	-5.72	126.97	130.40
1	N	729	A	C5-C6-N6	-5.72	119.12	123.70
1	N	104	G	C4'-C3'-C2'	-5.72	96.88	102.60
1	N	164	G	C6-C5-N7	-5.72	126.97	130.40
1	N	578	C	N3-C4-N4	5.72	122.00	118.00
1	N	650	G	C5-C6-N1	-5.72	108.64	111.50
1	N	733	G	N1-C2-N3	-5.72	120.47	123.90
1	N	1227	A	N9-C4-C5	-5.72	103.51	105.80
1	N	420	U	P-O5'-C5'	-5.72	111.75	120.90
1	N	1400	C	N1-C2-N3	5.72	123.20	119.20
1	N	1495	U	N1-C2-O2	-5.72	118.80	122.80
1	N	1521	C	OP1-P-OP2	-5.72	111.03	119.60
1	N	347	G	O4'-C1'-N9	5.71	112.77	108.20
1	N	544	G	O5'-C5'-C4'	-5.71	100.84	111.70
1	N	620	C	C2-N3-C4	5.71	122.76	119.90
1	N	720	C	C5-C6-N1	5.71	123.86	121.00
1	N	1192	C	N3-C4-C5	-5.71	119.61	121.90
1	N	1232	U	C5'-C4'-C3'	5.71	125.14	116.00
1	N	1240	U	N3-C2-O2	5.71	126.20	122.20
1	N	1521	C	C5-C4-N4	-5.71	116.20	120.20
1	N	483	C	C6-N1-C1'	-5.71	113.94	120.80
1	N	603	U	OP2-P-O3'	5.71	117.77	105.20
1	N	73	C	C6-N1-C1'	5.71	127.66	120.80
1	N	374	A	C4-N9-C1'	-5.71	116.02	126.30
1	N	1388	C	C2-N1-C1'	5.71	125.08	118.80
1	N	317	U	C5'-C4'-O4'	5.71	115.95	109.10
1	N	1414	U	C6-N1-C2	-5.71	117.57	121.00
1	N	174	A	O5'-P-OP1	5.71	117.55	110.70
1	N	383	A	C2-N3-C4	-5.71	107.75	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	630	A	C4'-C3'-C2'	-5.71	96.89	102.60
1	N	686	U	C2'-C3'-O3'	5.71	122.83	113.70
1	N	1105	A	C5-N7-C8	5.71	106.75	103.90
1	N	199	A	C4-C5-C6	5.71	119.85	117.00
1	N	637	C	C6-N1-C2	-5.71	118.02	120.30
1	N	1173	U	N3-C4-O4	-5.71	115.41	119.40
1	N	1426	G	N1-C2-N3	-5.70	120.48	123.90
1	N	1473	G	C4-C5-C6	5.70	122.22	118.80
1	N	799	G	N1-C2-N3	-5.70	120.48	123.90
1	N	1138	G	C3'-C2'-C1'	5.70	106.06	101.50
1	N	1419	G	C4'-C3'-C2'	-5.70	96.90	102.60
1	N	50	A	C8-N9-C4	-5.70	103.52	105.80
1	N	260	G	C5-C6-O6	-5.70	125.18	128.60
1	N	369	G	N7-C8-N9	-5.70	110.25	113.10
1	N	654	G	O4'-C1'-N9	5.70	112.76	108.20
1	N	349	A	P-O3'-C3'	-5.70	112.86	119.70
1	N	509	A	C5-N7-C8	5.70	106.75	103.90
1	N	810	C	C4-C5-C6	5.70	120.25	117.40
1	N	1044	A	C4-C5-C6	5.70	119.85	117.00
1	N	790	A	C2-N3-C4	-5.70	107.75	110.60
1	N	1435	G	C4'-C3'-C2'	-5.70	96.90	102.60
1	N	75	G	N3-C4-N9	-5.70	122.58	126.00
1	N	559	A	C5'-C4'-O4'	5.70	115.94	109.10
1	N	605	U	C6-N1-C2	5.70	124.42	121.00
1	N	696	A	C5'-C4'-C3'	5.70	125.11	116.00
1	N	938	A	C5-N7-C8	-5.70	101.05	103.90
1	N	1273	C	C3'-C2'-C1'	5.70	106.06	101.50
1	N	275	G	C5-C6-N1	-5.69	108.65	111.50
1	N	1473	G	O4'-C4'-C3'	-5.69	98.31	104.00
1	N	240	G	N3-C2-N2	5.69	123.89	119.90
1	N	364	A	P-O3'-C3'	5.69	126.53	119.70
1	N	619	U	OP2-P-O3'	5.69	117.72	105.20
1	N	681	A	N9-C1'-C2'	-5.69	105.74	112.00
1	N	1205	U	C2-N3-C4	-5.69	123.58	127.00
1	N	1261	A	N1-C6-N6	5.69	122.02	118.60
1	N	1365	G	N1-C2-N3	-5.69	120.48	123.90
1	N	78	A	C4-C5-N7	5.69	113.55	110.70
1	N	89	U	O4'-C1'-N1	5.69	112.75	108.20
1	N	168	G	C4-C5-N7	5.69	113.08	110.80
1	N	610	U	C5-C4-O4	5.69	129.31	125.90
1	N	772	U	C2-N1-C1'	-5.69	110.87	117.70
1	N	958	A	C5-C6-N6	-5.69	119.15	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1263	C	C2'-C3'-O3'	5.69	122.81	113.70
1	N	1274	A	N9-C4-C5	5.69	108.08	105.80
1	N	1446	A	O4'-C1'-N9	5.69	112.75	108.20
1	N	142	G	C6-C5-N7	-5.69	126.99	130.40
1	N	160	A	C4-C5-C6	5.69	119.84	117.00
1	N	1174	G	C4-C5-C6	5.69	122.21	118.80
1	N	791	G	C4-C5-N7	5.69	113.08	110.80
1	N	1022	A	P-O5'-C5'	-5.69	111.80	120.90
1	N	1442	G	C2-N3-C4	5.69	114.74	111.90
1	N	1484	C	C1'-O4'-C4'	5.69	114.45	109.90
1	N	42	G	N3-C4-N9	5.69	129.41	126.00
1	N	754	C	C2-N1-C1'	5.69	125.05	118.80
1	N	907	A	C1'-O4'-C4'	5.69	114.45	109.90
1	N	550	G	N1-C6-O6	5.68	123.31	119.90
1	N	651	C	C4-C5-C6	-5.68	114.56	117.40
1	N	895	G	P-O5'-C5'	5.68	130.00	120.90
1	N	1398	A	C4-C5-N7	-5.68	107.86	110.70
1	N	158	G	O4'-C4'-C3'	-5.68	98.32	104.00
1	N	277	C	C4'-C3'-C2'	-5.68	96.92	102.60
1	N	305	G	OP1-P-OP2	-5.68	111.08	119.60
1	N	530	G	N3-C4-N9	5.68	129.41	126.00
1	N	938	A	N9-C4-C5	-5.68	103.53	105.80
1	N	1057	G	P-O3'-C3'	5.68	126.52	119.70
1	N	1360	A	C5-N7-C8	5.68	106.74	103.90
1	N	1437	A	N7-C8-N9	-5.68	110.96	113.80
1	N	296	U	C6-N1-C2	-5.68	117.59	121.00
1	N	650	G	C1'-O4'-C4'	-5.68	105.36	109.90
1	N	665	A	C5-C6-N6	-5.68	119.16	123.70
1	N	770	C	N3-C4-N4	5.68	121.98	118.00
1	N	946	A	P-O5'-C5'	5.68	129.99	120.90
1	N	1024	G	C5-N7-C8	-5.68	101.46	104.30
1	N	1259	C	O4'-C1'-N1	5.68	112.75	108.20
1	N	1344	C	C5-C4-N4	-5.68	116.22	120.20
1	N	64	G	P-O3'-C3'	5.68	126.52	119.70
1	N	216	U	C5'-C4'-C3'	5.68	125.09	116.00
1	N	935	A	C5-C6-N6	-5.68	119.16	123.70
1	N	967	C	C6-N1-C2	5.68	122.57	120.30
1	N	1223	C	C6-N1-C1'	-5.68	113.99	120.80
1	N	76	G	C8-N9-C1'	-5.68	119.62	127.00
1	N	121	U	N3-C2-O2	-5.68	118.23	122.20
1	N	155	A	C3'-C2'-C1'	-5.68	96.96	101.50
1	N	505	G	P-O5'-C5'	-5.68	111.82	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	895	G	C4-C5-N7	-5.68	108.53	110.80
1	N	1228	C	C2-N3-C4	-5.68	117.06	119.90
1	N	1300	G	C2-N3-C4	-5.68	109.06	111.90
1	N	964	A	N3-C4-C5	-5.67	122.83	126.80
1	N	1049	U	C4-C5-C6	-5.67	116.30	119.70
1	N	1270	G	C1'-O4'-C4'	-5.67	105.36	109.90
1	N	51	A	O4'-C1'-C2'	-5.67	100.13	105.80
1	N	86	G	N9-C4-C5	-5.67	103.13	105.40
1	N	532	A	C2-N3-C4	-5.67	107.76	110.60
1	N	616	G	N3-C4-N9	-5.67	122.60	126.00
1	N	811	C	C2-N3-C4	5.67	122.74	119.90
1	N	819	A	C4-C5-C6	5.67	119.84	117.00
1	N	851	G	N1-C2-N2	-5.67	111.09	116.20
1	N	1095	U	C2-N3-C4	5.67	130.40	127.00
1	N	92	U	N1-C2-O2	-5.67	118.83	122.80
1	N	418	C	N3-C4-N4	5.67	121.97	118.00
1	N	43	C	C6-N1-C2	5.67	122.57	120.30
1	N	140	U	C1'-O4'-C4'	5.67	114.44	109.90
1	N	960	U	P-O5'-C5'	5.67	129.97	120.90
1	N	1011	C	C6-N1-C2	5.67	122.57	120.30
1	N	1178	G	C6-C5-N7	-5.67	127.00	130.40
1	N	1370	G	C5'-C4'-C3'	-5.67	106.93	116.00
1	N	1411	C	N1-C2-N3	-5.67	115.23	119.20
1	N	1417	G	OP2-P-O3'	5.67	117.67	105.20
1	N	675	A	C3'-C2'-C1'	5.67	106.03	101.50
1	N	998	C	C5-C6-N1	5.67	123.83	121.00
1	N	1166	G	N7-C8-N9	5.67	115.93	113.10
1	N	1476	A	P-O5'-C5'	-5.67	111.83	120.90
1	N	1523	G	P-O3'-C3'	5.67	126.50	119.70
1	N	150	U	C5-C6-N1	5.67	125.53	122.70
1	N	659	U	C5'-C4'-O4'	5.67	115.90	109.10
1	N	902	G	O5'-P-OP2	5.67	117.50	110.70
1	N	1140	C	O4'-C1'-C2'	-5.67	100.14	105.80
1	N	115	G	C1'-O4'-C4'	5.66	114.43	109.90
1	N	219	U	N3-C4-O4	5.66	123.36	119.40
1	N	772	U	C3'-C2'-C1'	-5.66	96.97	101.50
1	N	1127	G	C8-N9-C4	-5.66	104.13	106.40
1	N	73	C	O4'-C1'-C2'	-5.66	100.14	105.80
1	N	866	C	O4'-C1'-C2'	-5.66	100.14	105.80
1	N	898	G	C5-C6-N1	-5.66	108.67	111.50
1	N	55	A	O5'-C5'-C4'	-5.66	100.95	111.70
1	N	305	G	C5-C6-N1	-5.66	108.67	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	720	C	C4-C5-C6	-5.66	114.57	117.40
1	N	1431	A	C5-C6-N6	-5.66	119.17	123.70
1	N	784	A	C8-N9-C4	-5.66	103.54	105.80
1	N	903	G	N3-C4-N9	-5.66	122.61	126.00
1	N	451	A	C5-C6-N6	-5.66	119.18	123.70
1	N	1224	U	C6-N1-C1'	-5.66	113.28	121.20
1	N	25	C	N3-C4-C5	-5.65	119.64	121.90
1	N	649	A	O4'-C4'-C3'	-5.65	98.35	104.00
1	N	145	G	O5'-P-OP2	-5.65	100.61	105.70
1	N	375	U	N1-C2-N3	-5.65	111.51	114.90
1	N	437	U	N3-C2-O2	5.65	126.16	122.20
1	N	700	G	O3'-P-O5'	5.65	114.74	104.00
1	N	1200	C	C4-C5-C6	-5.65	114.57	117.40
1	N	1209	C	O4'-C1'-N1	5.65	112.72	108.20
1	N	194	C	C6-N1-C2	-5.65	118.04	120.30
1	N	917	G	C4-C5-N7	-5.65	108.54	110.80
1	N	1003	G	C5'-C4'-O4'	5.65	115.88	109.10
1	N	1045	C	C2-N1-C1'	5.65	125.02	118.80
1	N	1398	A	N7-C8-N9	-5.65	110.97	113.80
1	N	220	G	C4-C5-C6	5.65	122.19	118.80
1	N	1060	U	C4-C5-C6	5.65	123.09	119.70
1	N	813	U	O3'-P-O5'	-5.65	93.27	104.00
1	N	1183	U	OP1-P-OP2	-5.65	111.13	119.60
1	N	1351	U	N3-C4-C5	-5.65	111.21	114.60
1	N	1510	C	C2-N1-C1'	5.65	125.01	118.80
1	N	433	G	C5-C6-N1	-5.65	108.68	111.50
1	N	440	C	C1'-O4'-C4'	5.65	114.42	109.90
1	N	1087	G	C4-C5-N7	5.65	113.06	110.80
1	N	134	G	O4'-C4'-C3'	-5.64	98.36	104.00
1	N	165	G	N3-C4-C5	-5.64	125.78	128.60
1	N	275	G	C8-N9-C4	-5.64	104.14	106.40
1	N	294	U	N3-C4-C5	-5.64	111.21	114.60
1	N	482	A	C5'-C4'-O4'	5.64	115.88	109.10
1	N	725	G	O4'-C1'-C2'	5.64	112.68	107.60
1	N	296	U	C3'-C2'-C1'	5.64	106.01	101.50
1	N	366	A	C4-N9-C1'	5.64	136.46	126.30
1	N	442	G	C5-C6-O6	-5.64	125.21	128.60
1	N	711	G	P-O3'-C3'	5.64	126.47	119.70
1	N	824	G	O4'-C1'-N9	5.64	112.71	108.20
1	N	1215	G	N3-C2-N2	5.64	123.85	119.90
1	N	1337	G	N3-C4-C5	5.64	131.42	128.60
1	N	1356	G	C8-N9-C4	-5.64	104.14	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1378	C	P-O3'-C3'	-5.64	112.93	119.70
1	N	1526	G	N7-C8-N9	-5.64	110.28	113.10
1	N	325	A	N1-C6-N6	-5.64	115.22	118.60
1	N	800	G	N1-C2-N2	-5.64	111.12	116.20
1	N	851	G	P-O5'-C5'	5.64	129.93	120.90
1	N	974	A	C3'-C2'-C1'	5.64	106.01	101.50
1	N	1459	G	O4'-C1'-N9	5.64	112.71	108.20
1	N	1060	U	P-O3'-C3'	-5.64	112.93	119.70
1	N	1321	U	P-O5'-C5'	5.64	129.92	120.90
1	N	2	A	O4'-C1'-N9	5.64	112.71	108.20
1	N	658	C	C5-C6-N1	5.64	123.82	121.00
1	N	770	C	O4'-C4'-C3'	-5.64	98.36	104.00
1	N	842	U	N1-C2-O2	5.64	126.75	122.80
1	N	366	A	N3-C4-N9	-5.64	122.89	127.40
1	N	657	U	N3-C4-C5	-5.64	111.22	114.60
1	N	663	A	P-O5'-C5'	5.64	129.92	120.90
1	N	750	C	O4'-C1'-N1	5.64	112.71	108.20
1	N	1039	G	C4-C5-N7	5.64	113.06	110.80
1	N	256	U	N3-C4-C5	-5.63	111.22	114.60
1	N	260	G	N1-C2-N2	-5.63	111.13	116.20
1	N	411	A	C5'-C4'-O4'	5.63	115.86	109.10
1	N	462	G	C6-N1-C2	-5.63	121.72	125.10
1	N	637	C	N1-C2-O2	-5.63	115.52	118.90
1	N	1196	A	C4-N9-C1'	5.63	136.44	126.30
1	N	423	G	C5-C6-O6	-5.63	125.22	128.60
1	N	1139	G	N1-C2-N3	-5.63	120.52	123.90
1	N	27	G	N1-C6-O6	5.63	123.28	119.90
1	N	94	G	C3'-C2'-C1'	5.63	106.01	101.50
1	N	151	A	C5-N7-C8	5.63	106.72	103.90
1	N	171	A	C4-N9-C1'	5.63	136.44	126.30
1	N	515	G	P-O5'-C5'	5.63	129.91	120.90
1	N	1254	A	C5'-C4'-O4'	5.63	115.86	109.10
1	N	1364	U	C2-N3-C4	-5.63	123.62	127.00
1	N	117	G	P-O5'-C5'	5.63	129.91	120.90
1	N	226	G	C4-N9-C1'	5.63	133.82	126.50
1	N	637	C	C3'-C2'-C1'	-5.63	97.00	101.50
1	N	1257	A	C4-C5-C6	5.63	119.81	117.00
1	N	1451	U	N3-C2-O2	-5.63	118.26	122.20
1	N	22	G	C4-C5-N7	5.63	113.05	110.80
1	N	635	A	C5-C6-N6	-5.63	119.20	123.70
1	N	819	A	OP1-P-OP2	-5.63	111.16	119.60
1	N	973	G	O4'-C1'-N9	5.63	112.70	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1024	G	N7-C8-N9	5.63	115.91	113.10
1	N	1099	G	N1-C2-N3	-5.63	120.52	123.90
1	N	510	A	C5-N7-C8	5.63	106.71	103.90
1	N	591	U	C5-C6-N1	5.63	125.51	122.70
1	N	848	C	C5'-C4'-C3'	5.63	125.00	116.00
1	N	1137	C	N1-C1'-C2'	5.63	121.31	114.00
1	N	1149	C	C2-N1-C1'	-5.63	112.61	118.80
1	N	449	G	C4-C5-C6	5.62	122.17	118.80
1	N	760	G	C5-C6-N1	-5.62	108.69	111.50
1	N	1327	C	O4'-C4'-C3'	-5.62	98.38	104.00
1	N	128	G	N1-C6-O6	5.62	123.27	119.90
1	N	287	U	P-O3'-C3'	5.62	126.45	119.70
1	N	1145	A	OP1-P-OP2	-5.62	111.16	119.60
1	N	145	G	C5'-C4'-O4'	5.62	115.85	109.10
1	N	211	G	O4'-C1'-N9	5.62	112.70	108.20
1	N	1071	C	C6-N1-C1'	-5.62	114.05	120.80
1	N	905	U	C4'-C3'-C2'	5.62	108.22	102.60
1	N	107	G	C4-C5-C6	5.62	122.17	118.80
1	N	304	U	C2-N3-C4	5.62	130.37	127.00
1	N	578	C	C2-N1-C1'	5.62	124.98	118.80
1	N	701	U	N1-C2-O2	5.62	126.73	122.80
1	N	1151	A	C5-N7-C8	5.62	106.71	103.90
1	N	1457	G	C6-N1-C2	5.62	128.47	125.10
1	N	305	G	C5-N7-C8	-5.62	101.49	104.30
1	N	663	A	N7-C8-N9	-5.62	110.99	113.80
1	N	935	A	N1-C2-N3	5.62	132.11	129.30
1	N	1099	G	O4'-C4'-C3'	-5.62	98.38	104.00
1	N	1299	A	C5-C6-N6	-5.62	119.21	123.70
1	N	1303	C	N1-C2-N3	-5.62	115.27	119.20
1	N	81	A	C6-N1-C2	-5.62	115.23	118.60
1	N	249	U	O4'-C1'-N1	5.62	112.69	108.20
1	N	577	G	C5'-C4'-O4'	-5.62	102.36	109.10
1	N	633	G	C8-N9-C4	-5.62	104.15	106.40
1	N	857	C	C5-C6-N1	-5.62	118.19	121.00
1	N	998	C	N3-C4-N4	5.62	121.93	118.00
1	N	47	C	C4'-C3'-C2'	5.61	108.21	102.60
1	N	281	G	C1'-O4'-C4'	5.61	114.39	109.90
1	N	1314	C	C2-N3-C4	5.61	122.71	119.90
1	N	183	C	P-O3'-C3'	5.61	126.44	119.70
1	N	419	C	C5-C4-N4	-5.61	116.27	120.20
1	N	545	C	N1-C2-O2	5.61	122.27	118.90
1	N	1266	G	N7-C8-N9	5.61	115.91	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	121	U	C4'-C3'-C2'	-5.61	96.99	102.60
1	N	154	U	C6-N1-C2	5.61	124.37	121.00
1	N	223	A	C5-C6-N6	-5.61	119.21	123.70
1	N	278	G	N1-C6-O6	5.61	123.27	119.90
1	N	935	A	N9-C1'-C2'	-5.61	105.83	112.00
1	N	962	C	N1-C2-N3	-5.61	115.27	119.20
1	N	1104	G	N1-C2-N3	-5.61	120.53	123.90
1	N	1197	A	C5-N7-C8	5.61	106.70	103.90
1	N	1051	C	C2-N3-C4	-5.61	117.09	119.90
1	N	1377	A	C6-C5-N7	-5.61	128.37	132.30
1	N	164	G	O4'-C1'-N9	5.61	112.69	108.20
1	N	553	A	C5-C6-N1	5.61	120.50	117.70
1	N	586	C	C2'-C3'-O3'	5.61	122.67	113.70
1	N	735	C	O5'-C5'-C4'	-5.61	101.05	111.70
1	N	848	C	C4'-C3'-C2'	-5.61	96.99	102.60
1	N	220	G	C1'-O4'-C4'	-5.61	105.42	109.90
1	N	719	C	C5-C4-N4	5.61	124.12	120.20
1	N	1080	A	C5-C6-N1	-5.61	114.90	117.70
1	N	1511	G	N1-C2-N3	-5.61	120.54	123.90
1	N	206	C	P-O3'-C3'	5.60	126.42	119.70
1	N	226	G	O4'-C1'-N9	5.60	112.68	108.20
1	N	370	C	C3'-C2'-C1'	-5.60	97.02	101.50
1	N	389	A	N7-C8-N9	-5.60	111.00	113.80
1	N	865	A	C4'-C3'-C2'	-5.60	97.00	102.60
1	N	1417	G	C1'-O4'-C4'	-5.60	105.42	109.90
1	N	1440	U	C5-C4-O4	-5.60	122.54	125.90
1	N	393	A	C4-C5-C6	5.60	119.80	117.00
1	N	422	C	C3'-C2'-C1'	-5.60	97.02	101.50
1	N	666	G	N3-C2-N2	5.60	123.82	119.90
1	N	846	G	C5'-C4'-C3'	-5.60	107.03	116.00
1	N	848	C	C5-C6-N1	5.60	123.80	121.00
1	N	1056	U	C4'-C3'-C2'	5.60	108.20	102.60
1	N	430	A	C2-N3-C4	-5.60	107.80	110.60
1	N	1258	G	C5-N7-C8	5.60	107.10	104.30
1	N	108	G	C4-N9-C1'	5.60	133.78	126.50
1	N	341	C	P-O5'-C5'	5.60	129.86	120.90
1	N	725	G	N1-C2-N3	-5.60	120.54	123.90
1	N	896	C	O4'-C1'-N1	5.60	112.68	108.20
1	N	1064	G	N3-C2-N2	5.60	123.82	119.90
1	N	1146	A	C5-C6-N1	-5.60	114.90	117.70
1	N	1184	G	C6-C5-N7	-5.60	127.04	130.40
1	N	1494	G	C5-C6-O6	-5.60	125.24	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1519	A	O4'-C1'-N9	5.60	112.68	108.20
1	N	766	A	O4'-C1'-N9	5.60	112.68	108.20
1	N	843	U	OP2-P-O3'	5.60	117.52	105.20
1	N	961	U	N1-C2-O2	-5.60	118.88	122.80
1	N	983	A	C5-N7-C8	5.60	106.70	103.90
1	N	1174	G	C5'-C4'-C3'	-5.60	107.05	116.00
1	N	52	C	N3-C4-N4	5.60	121.92	118.00
1	N	553	A	N1-C2-N3	5.60	132.10	129.30
1	N	764	C	P-O3'-C3'	-5.60	112.98	119.70
1	N	173	U	N3-C4-O4	5.59	123.32	119.40
1	N	561	U	N1-C2-N3	5.59	118.26	114.90
1	N	928	G	C4'-C3'-C2'	-5.59	97.01	102.60
1	N	1003	G	N9-C1'-C2'	-5.59	105.85	112.00
1	N	1050	G	C5-C6-O6	-5.59	125.24	128.60
1	N	1080	A	N1-C2-N3	-5.59	126.50	129.30
1	N	1271	A	C3'-C2'-C1'	-5.59	97.02	101.50
1	N	1513	A	P-O3'-C3'	-5.59	112.99	119.70
1	N	1190	G	N3-C4-N9	5.59	129.36	126.00
1	N	1250	A	P-O3'-C3'	-5.59	112.99	119.70
1	N	645	G	C4-N9-C1'	-5.59	119.23	126.50
1	N	939	G	C8-N9-C1'	5.59	134.27	127.00
1	N	964	A	C2-N3-C4	5.59	113.40	110.60
1	N	1133	G	N1-C2-N3	-5.59	120.55	123.90
1	N	1261	A	C4-C5-C6	5.59	119.80	117.00
1	N	340	U	O4'-C1'-N1	5.59	112.67	108.20
1	N	866	C	C6-N1-C1'	-5.59	114.09	120.80
1	N	1349	A	C8-N9-C4	-5.59	103.56	105.80
1	N	1397	C	C6-N1-C1'	5.59	127.51	120.80
1	N	1403	C	N1-C2-O2	5.59	122.25	118.90
1	N	1447	A	C5-C6-N1	-5.59	114.91	117.70
1	N	22	G	N3-C4-C5	5.59	131.39	128.60
1	N	77	A	P-O5'-C5'	-5.59	111.96	120.90
1	N	110	C	P-O3'-C3'	5.59	126.41	119.70
1	N	184	G	N7-C8-N9	5.59	115.89	113.10
1	N	357	G	C4'-C3'-C2'	-5.59	97.01	102.60
1	N	1179	A	C8-N9-C4	-5.59	103.56	105.80
1	N	1514	G	C5-C6-N1	-5.59	108.71	111.50
1	N	504	C	C4-C5-C6	-5.59	114.61	117.40
1	N	687	A	N3-C4-C5	-5.59	122.89	126.80
1	N	700	G	C8-N9-C4	-5.59	104.17	106.40
1	N	806	C	N3-C2-O2	5.59	125.81	121.90
1	N	1342	C	N3-C4-C5	-5.59	119.67	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1525	G	C4-N9-C1'	-5.59	119.24	126.50
1	N	54	C	C6-N1-C1'	-5.58	114.10	120.80
1	N	481	G	C3'-C2'-C1'	-5.58	97.03	101.50
1	N	894	G	C5-C6-O6	-5.58	125.25	128.60
1	N	1390	U	N1-C2-N3	-5.58	111.55	114.90
1	N	17	U	OP1-P-OP2	-5.58	111.22	119.60
1	N	266	G	C4-C5-N7	5.58	113.03	110.80
1	N	271	C	P-O5'-C5'	5.58	129.83	120.90
1	N	663	A	C5-N7-C8	5.58	106.69	103.90
1	N	923	A	C4-C5-C6	5.58	119.79	117.00
1	N	1109	C	C1'-O4'-C4'	5.58	114.37	109.90
1	N	1142	G	C8-N9-C4	-5.58	104.17	106.40
1	N	1179	A	P-O5'-C5'	-5.58	111.97	120.90
1	N	1513	A	C2-N3-C4	-5.58	107.81	110.60
1	N	49	U	C5'-C4'-C3'	-5.58	107.07	116.00
1	N	745	G	C6-C5-N7	-5.58	127.05	130.40
1	N	819	A	N9-C4-C5	5.58	108.03	105.80
1	N	1043	G	C2-N3-C4	5.58	114.69	111.90
1	N	1503	A	C6-C5-N7	-5.58	128.39	132.30
1	N	282	A	O4'-C4'-C3'	-5.58	98.42	104.00
1	N	494	G	C3'-C2'-C1'	5.58	105.96	101.50
1	N	760	G	N9-C4-C5	-5.58	103.17	105.40
1	N	204	G	C3'-C2'-C1'	-5.58	97.04	101.50
1	N	522	C	P-O3'-C3'	5.58	126.39	119.70
1	N	988	G	C5-C6-O6	-5.58	125.25	128.60
1	N	1087	G	N9-C4-C5	-5.58	103.17	105.40
1	N	1129	C	C3'-C2'-C1'	5.58	105.96	101.50
1	N	1370	G	N1-C6-O6	5.58	123.25	119.90
1	N	1489	G	C6-C5-N7	5.58	133.75	130.40
1	N	1529	G	O4'-C1'-C2'	5.58	112.62	107.60
1	N	422	C	O4'-C1'-C2'	5.57	112.62	107.60
1	N	701	U	N3-C4-C5	-5.57	111.26	114.60
1	N	784	A	N1-C2-N3	5.57	132.09	129.30
1	N	846	G	C5'-C4'-O4'	5.57	115.79	109.10
1	N	863	U	O4'-C1'-N1	5.57	112.66	108.20
1	N	873	A	N7-C8-N9	-5.57	111.01	113.80
1	N	877	G	N1-C2-N2	-5.57	111.18	116.20
1	N	940	C	C3'-C2'-C1'	-5.57	97.04	101.50
1	N	1032	G	P-O3'-C3'	5.57	126.39	119.70
1	N	1170	A	C5'-C4'-C3'	5.57	124.92	116.00
1	N	1196	A	P-O5'-C5'	-5.57	111.98	120.90
1	N	1244	G	N1-C2-N3	-5.57	120.56	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1328	C	O4'-C1'-N1	5.57	112.66	108.20
1	N	1482	G	N7-C8-N9	-5.57	110.31	113.10
1	N	329	A	C5'-C4'-C3'	-5.57	107.08	116.00
1	N	615	G	C5-C6-N1	-5.57	108.71	111.50
1	N	1256	A	C8-N9-C4	5.57	108.03	105.80
1	N	184	G	C5-N7-C8	-5.57	101.52	104.30
1	N	425	G	O4'-C1'-N9	5.57	112.66	108.20
1	N	430	A	N1-C2-N3	5.57	132.09	129.30
1	N	763	G	N9-C4-C5	5.57	107.63	105.40
1	N	1207	G	C4'-C3'-C2'	-5.57	97.03	102.60
1	N	691	G	C5-N7-C8	5.57	107.08	104.30
1	N	1080	A	O4'-C1'-N9	-5.57	103.75	108.20
1	N	199	A	P-O3'-C3'	-5.57	113.02	119.70
1	N	277	C	C2-N3-C4	5.57	122.68	119.90
1	N	558	G	C8-N9-C4	-5.57	104.17	106.40
1	N	610	U	C4-C5-C6	-5.57	116.36	119.70
1	N	644	U	O4'-C1'-N1	5.57	112.65	108.20
1	N	980	C	N3-C4-C5	-5.57	119.67	121.90
1	N	1185	G	C5-N7-C8	-5.57	101.52	104.30
1	N	1240	U	O4'-C1'-N1	5.57	112.66	108.20
1	N	1257	A	O4'-C4'-C3'	-5.57	98.43	104.00
1	N	99	C	C4'-C3'-C2'	-5.57	97.03	102.60
1	N	353	A	C5-C6-N1	-5.57	114.92	117.70
1	N	391	G	C4'-C3'-C2'	5.57	108.17	102.60
1	N	676	A	C5'-C4'-C3'	-5.57	107.09	116.00
1	N	678	U	C2-N1-C1'	5.57	124.38	117.70
1	N	724	G	C5-C6-N1	5.57	114.28	111.50
1	N	993	G	N7-C8-N9	5.57	115.88	113.10
1	N	1382	C	C5-C4-N4	-5.57	116.30	120.20
1	N	857	C	C4'-C3'-C2'	-5.56	97.04	102.60
1	N	1379	G	N3-C4-N9	-5.56	122.66	126.00
1	N	49	U	O5'-C5'-C4'	5.56	122.27	111.70
1	N	156	C	C5-C6-N1	-5.56	118.22	121.00
1	N	197	A	C8-N9-C4	-5.56	103.58	105.80
1	N	876	C	O4'-C1'-N1	5.56	112.65	108.20
1	N	939	G	C1'-O4'-C4'	-5.56	105.45	109.90
1	N	1087	G	N3-C2-N2	5.56	123.79	119.90
1	N	1263	C	N3-C4-C5	-5.56	119.67	121.90
1	N	1226	C	O4'-C1'-N1	5.56	112.65	108.20
1	N	1245	C	C6-N1-C1'	-5.56	114.13	120.80
1	N	86	G	P-O5'-C5'	-5.56	112.01	120.90
1	N	758	C	N3-C4-N4	5.56	121.89	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	792	A	C6-C5-N7	-5.56	128.41	132.30
1	N	935	A	C5-N7-C8	5.56	106.68	103.90
1	N	91	U	C5'-C4'-O4'	-5.56	102.43	109.10
1	N	127	G	O4'-C1'-N9	5.56	112.65	108.20
1	N	144	G	N9-C4-C5	5.56	107.62	105.40
1	N	219	U	C5-C4-O4	-5.56	122.56	125.90
1	N	309	A	O4'-C1'-N9	5.56	112.65	108.20
1	N	380	G	C5-C6-O6	-5.56	125.27	128.60
1	N	661	G	N3-C2-N2	5.56	123.79	119.90
1	N	985	C	N3-C4-N4	5.56	121.89	118.00
1	N	988	G	N1-C2-N3	-5.56	120.57	123.90
1	N	1409	C	C4-C5-C6	5.56	120.18	117.40
1	N	75	G	N9-C4-C5	5.56	107.62	105.40
1	N	513	C	N3-C4-N4	5.56	121.89	118.00
1	N	1000	A	C5-C6-N1	-5.56	114.92	117.70
1	N	1230	C	P-O3'-C3'	5.56	126.37	119.70
1	N	566	G	C5'-C4'-C3'	-5.55	107.11	116.00
1	N	932	C	N3-C4-N4	5.55	121.89	118.00
1	N	1374	A	C2-N3-C4	-5.55	107.82	110.60
1	N	146	G	C4-C5-C6	5.55	122.13	118.80
1	N	366	A	C5-N7-C8	5.55	106.68	103.90
1	N	493	A	C5-C6-N6	-5.55	119.26	123.70
1	N	817	C	C3'-C2'-C1'	-5.55	97.06	101.50
1	N	1120	C	C1'-O4'-C4'	-5.55	105.46	109.90
1	N	1179	A	N7-C8-N9	5.55	116.58	113.80
1	N	1231	G	C5'-C4'-C3'	-5.55	107.12	116.00
1	N	718	A	C5-C6-N6	-5.55	119.26	123.70
1	N	1170	A	O4'-C1'-N9	5.55	112.64	108.20
1	N	1482	G	C5-C6-N1	-5.55	108.73	111.50
1	N	1533	C	OP1-P-OP2	-5.55	111.28	119.60
1	N	114	U	C4'-C3'-C2'	5.55	108.15	102.60
1	N	547	A	C4-C5-N7	5.55	113.47	110.70
1	N	510	A	N1-C2-N3	5.55	132.07	129.30
1	N	646	G	O4'-C1'-N9	5.55	112.64	108.20
1	N	664	G	N1-C2-N3	-5.55	120.57	123.90
1	N	1300	G	N1-C6-O6	5.55	123.23	119.90
1	N	482	A	N1-C6-N6	5.54	121.93	118.60
1	N	517	G	C5-C6-O6	-5.54	125.27	128.60
1	N	1006	G	C8-N9-C1'	5.54	134.21	127.00
1	N	1105	A	C5-C6-N6	-5.54	119.26	123.70
1	N	1154	G	C4-C5-C6	5.54	122.13	118.80
1	N	1162	C	C5'-C4'-O4'	-5.54	102.45	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	69	G	O4'-C1'-N9	5.54	112.64	108.20
1	N	211	G	C1'-O4'-C4'	5.54	114.33	109.90
1	N	696	A	C5-C6-N1	-5.54	114.93	117.70
1	N	1289	A	O4'-C1'-N9	5.54	112.64	108.20
1	N	1317	C	N1-C2-O2	-5.54	115.57	118.90
1	N	245	U	N3-C2-O2	5.54	126.08	122.20
1	N	258	G	C4-C5-N7	5.54	113.02	110.80
1	N	572	A	C5-C6-N1	-5.54	114.93	117.70
1	N	1110	A	C8-N9-C4	-5.54	103.58	105.80
1	N	1264	U	O4'-C4'-C3'	-5.54	98.46	104.00
1	N	1468	A	C3'-C2'-C1'	5.54	105.93	101.50
1	N	167	A	N1-C2-N3	-5.54	126.53	129.30
1	N	269	C	C5-C4-N4	-5.54	116.32	120.20
1	N	362	G	C5-C6-N1	5.54	114.27	111.50
1	N	389	A	C5-C6-N1	-5.54	114.93	117.70
1	N	467	U	C5'-C4'-C3'	5.54	124.86	116.00
1	N	709	U	O4'-C1'-C2'	5.54	112.58	107.60
1	N	791	G	P-O5'-C5'	-5.54	112.04	120.90
1	N	865	A	C2-N3-C4	-5.54	107.83	110.60
1	N	959	A	N9-C4-C5	5.54	108.02	105.80
1	N	706	A	N1-C2-N3	5.54	132.07	129.30
1	N	207	C	O4'-C4'-C3'	-5.54	98.47	104.00
1	N	445	G	C4'-C3'-C2'	-5.54	97.06	102.60
1	N	483	C	C2-N3-C4	5.54	122.67	119.90
1	N	654	G	N3-C2-N2	5.54	123.78	119.90
1	N	791	G	C8-N9-C4	-5.54	104.19	106.40
1	N	1049	U	C5-C4-O4	-5.54	122.58	125.90
1	N	1155	A	C4-C5-N7	-5.54	107.93	110.70
1	N	1495	U	C2-N1-C1'	5.54	124.34	117.70
1	N	33	A	N3-C4-C5	-5.53	122.93	126.80
1	N	207	C	C5-C4-N4	5.53	124.07	120.20
1	N	291	U	N3-C4-O4	5.53	123.27	119.40
1	N	552	U	N3-C4-C5	5.53	117.92	114.60
1	N	894	G	O3'-P-O5'	-5.53	93.49	104.00
1	N	184	G	C3'-C2'-C1'	-5.53	97.08	101.50
1	N	684	U	P-O5'-C5'	-5.53	112.05	120.90
1	N	737	C	C4'-C3'-C2'	-5.53	97.07	102.60
1	N	994	A	C5-C6-N1	-5.53	114.94	117.70
1	N	1148	U	O4'-C4'-C3'	-5.53	98.47	104.00
1	N	1234	C	C5'-C4'-O4'	5.53	115.74	109.10
1	N	806	C	C5-C4-N4	-5.53	116.33	120.20
1	N	1257	A	C8-N9-C4	-5.53	103.59	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	422	C	C1'-O4'-C4'	-5.53	105.48	109.90
1	N	665	A	P-O5'-C5'	-5.53	112.06	120.90
1	N	784	A	C5-N7-C8	5.53	106.66	103.90
1	N	1145	A	C8-N9-C4	-5.53	103.59	105.80
1	N	1387	G	C5-N7-C8	5.53	107.06	104.30
1	N	711	G	N1-C2-N3	-5.53	120.58	123.90
1	N	942	G	C4-C5-N7	-5.53	108.59	110.80
1	N	232	G	N1-C6-O6	5.52	123.21	119.90
1	N	702	A	O5'-P-OP2	-5.52	100.73	105.70
1	N	1150	A	OP1-P-O3'	5.52	117.35	105.20
1	N	146	G	C2-N3-C4	5.52	114.66	111.90
1	N	372	C	C2-N3-C4	5.52	122.66	119.90
1	N	1071	C	C2-N1-C1'	5.52	124.87	118.80
1	N	1149	C	C4-C5-C6	-5.52	114.64	117.40
1	N	275	G	C3'-C2'-C1'	-5.52	97.08	101.50
1	N	935	A	C6-C5-N7	-5.52	128.44	132.30
1	N	1186	G	P-O3'-C3'	5.52	126.33	119.70
1	N	1395	C	C1'-O4'-C4'	-5.52	105.48	109.90
1	N	138	G	N1-C2-N3	-5.52	120.59	123.90
1	N	436	C	N3-C4-C5	-5.52	119.69	121.90
1	N	627	G	N7-C8-N9	5.52	115.86	113.10
1	N	774	G	C4'-C3'-C2'	-5.52	97.08	102.60
1	N	923	A	P-O3'-C3'	5.52	126.32	119.70
1	N	1175	G	N3-C2-N2	5.52	123.76	119.90
1	N	1382	C	O5'-P-OP2	-5.52	100.73	105.70
1	N	1397	C	C2-N1-C1'	-5.52	112.73	118.80
1	N	655	A	C1'-O4'-C4'	5.52	114.31	109.90
1	N	949	A	P-O5'-C5'	5.52	129.73	120.90
1	N	1267	C	C4-C5-C6	-5.52	114.64	117.40
1	N	102	G	C4'-C3'-C2'	-5.52	97.08	102.60
1	N	986	U	P-O5'-C5'	5.52	129.73	120.90
1	N	999	C	C2-N1-C1'	5.52	124.87	118.80
1	N	1021	A	O4'-C1'-N9	5.52	112.61	108.20
1	N	85	U	C4-C5-C6	-5.51	116.39	119.70
1	N	129	A	C2'-C3'-O3'	5.51	122.52	113.70
1	N	364	A	N9-C4-C5	-5.51	103.59	105.80
1	N	866	C	N3-C4-C5	-5.51	119.69	121.90
1	N	944	G	C5-C6-O6	-5.51	125.29	128.60
1	N	952	U	C6-N1-C1'	-5.51	113.48	121.20
1	N	977	A	C4-C5-N7	-5.51	107.94	110.70
1	N	1072	G	N3-C4-N9	-5.51	122.69	126.00
1	N	105	G	O4'-C1'-N9	5.51	112.61	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	151	A	C6-C5-N7	-5.51	128.44	132.30
1	N	756	C	C4-C5-C6	-5.51	114.64	117.40
1	N	1043	G	P-O3'-C3'	5.51	126.31	119.70
1	N	1517	G	C1'-O4'-C4'	5.51	114.31	109.90
1	N	80	A	OP1-P-OP2	-5.51	111.34	119.60
1	N	374	A	C5-N7-C8	5.51	106.65	103.90
1	N	524	G	C4-N9-C1'	5.51	133.66	126.50
1	N	829	G	P-O3'-C3'	-5.51	113.09	119.70
1	N	1183	U	C6-N1-C2	-5.51	117.69	121.00
1	N	1415	G	C4-N9-C1'	5.51	133.66	126.50
1	N	94	G	C5'-C4'-C3'	-5.51	107.19	116.00
1	N	271	C	C1'-O4'-C4'	-5.51	105.49	109.90
1	N	78	A	N9-C4-C5	-5.51	103.60	105.80
1	N	348	G	N9-C4-C5	5.51	107.60	105.40
1	N	482	A	O4'-C1'-N9	5.51	112.61	108.20
1	N	534	U	C6-N1-C2	5.51	124.30	121.00
1	N	606	G	C5-C6-N1	-5.51	108.75	111.50
1	N	1267	C	C5'-C4'-O4'	5.51	115.71	109.10
1	N	1311	A	N1-C2-N3	-5.51	126.55	129.30
1	N	1328	C	N1-C2-O2	-5.51	115.60	118.90
1	N	109	A	C4-C5-N7	-5.50	107.95	110.70
1	N	415	A	N1-C2-N3	-5.50	126.55	129.30
1	N	747	A	C4'-C3'-C2'	-5.50	97.10	102.60
1	N	1123	U	N3-C4-O4	5.50	123.25	119.40
1	N	220	G	C8-N9-C4	-5.50	104.20	106.40
1	N	801	U	C5-C4-O4	-5.50	122.60	125.90
1	N	834	U	O4'-C1'-C2'	5.50	112.55	107.60
1	N	1043	G	C5-C6-O6	-5.50	125.30	128.60
1	N	116	A	C4-C5-N7	-5.50	107.95	110.70
1	N	1101	A	C1'-O4'-C4'	-5.50	105.50	109.90
1	N	1462	C	C5-C4-N4	-5.50	116.35	120.20
1	N	127	G	C6-C5-N7	-5.50	127.10	130.40
1	N	272	C	C6-N1-C1'	-5.50	114.20	120.80
1	N	402	G	N3-C4-N9	5.50	129.30	126.00
1	N	467	U	C6-N1-C1'	-5.50	113.50	121.20
1	N	792	A	C4'-C3'-C2'	5.50	108.10	102.60
1	N	1006	G	N3-C4-C5	-5.50	125.85	128.60
1	N	1199	U	N3-C2-O2	5.50	126.05	122.20
1	N	1493	A	C5'-C4'-O4'	5.50	115.70	109.10
1	N	148	G	C4-C5-N7	5.50	113.00	110.80
1	N	421	U	C5'-C4'-O4'	5.50	115.70	109.10
1	N	574	A	N9-C4-C5	5.50	108.00	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	923	A	N1-C2-N3	5.50	132.05	129.30
1	N	1435	G	O4'-C1'-C2'	-5.50	100.30	105.80
1	N	1477	U	C5-C6-N1	5.50	125.45	122.70
1	N	1483	A	C5-C6-N6	-5.50	119.30	123.70
1	N	159	G	OP1-P-OP2	-5.50	111.36	119.60
1	N	1517	G	N3-C4-N9	5.50	129.30	126.00
1	N	210	C	C2-N3-C4	5.49	122.65	119.90
1	N	836	G	N9-C4-C5	5.49	107.60	105.40
1	N	933	G	N7-C8-N9	-5.49	110.35	113.10
1	N	980	C	O4'-C4'-C3'	-5.49	98.51	104.00
1	N	1305	G	N1-C2-N3	-5.49	120.60	123.90
1	N	1326	U	C5-C4-O4	-5.49	122.60	125.90
1	N	1443	C	C5-C4-N4	-5.49	116.36	120.20
1	N	413	G	C4-C5-C6	5.49	122.09	118.80
1	N	1210	C	C1'-O4'-C4'	5.49	114.29	109.90
1	N	296	U	C1'-O4'-C4'	5.49	114.29	109.90
1	N	523	A	N3-C4-N9	5.49	131.79	127.40
1	N	1068	G	P-O3'-C3'	-5.49	113.11	119.70
1	N	1410	A	C2'-C3'-O3'	5.49	122.49	113.70
1	N	436	C	P-O3'-C3'	-5.49	113.11	119.70
1	N	203	G	C8-N9-C1'	5.49	134.13	127.00
1	N	132	C	C4'-C3'-C2'	5.49	108.09	102.60
1	N	300	A	C6-C5-N7	-5.49	128.46	132.30
1	N	733	G	N9-C4-C5	-5.49	103.21	105.40
1	N	753	A	O5'-P-OP2	5.49	117.28	110.70
1	N	927	G	P-O3'-C3'	-5.49	113.12	119.70
1	N	1401	G	C3'-C2'-C1'	5.49	105.89	101.50
1	N	1442	G	C4-C5-C6	5.49	122.09	118.80
1	N	373	A	C8-N9-C4	-5.48	103.61	105.80
1	N	797	C	N3-C2-O2	5.48	125.74	121.90
1	N	836	G	N3-C2-N2	5.48	123.74	119.90
1	N	75	G	O4'-C1'-C2'	-5.48	100.32	105.80
1	N	192	A	C5'-C4'-O4'	5.48	115.68	109.10
1	N	530	G	C5-C6-N1	-5.48	108.76	111.50
1	N	790	A	C5-N7-C8	5.48	106.64	103.90
1	N	829	G	C4-N9-C1'	5.48	133.63	126.50
1	N	873	A	N3-C4-N9	-5.48	123.01	127.40
1	N	1006	G	N1-C6-O6	5.48	123.19	119.90
1	N	1110	A	N3-C4-N9	5.48	131.79	127.40
1	N	238	A	C5-N7-C8	5.48	106.64	103.90
1	N	241	G	C3'-C2'-C1'	-5.48	97.12	101.50
1	N	387	U	OP2-P-O3'	5.48	117.26	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	595	A	O4'-C1'-C2'	-5.48	100.32	105.80
1	N	1100	C	C6-N1-C1'	-5.48	114.22	120.80
1	N	1227	A	O4'-C1'-N9	5.48	112.58	108.20
1	N	1341	U	O4'-C1'-N1	5.48	112.58	108.20
1	N	1438	G	C5-C6-N1	-5.48	108.76	111.50
1	N	1531	A	N1-C6-N6	5.48	121.89	118.60
1	N	415	A	N9-C1'-C2'	-5.48	105.97	112.00
1	N	587	G	C2'-C3'-O3'	5.48	122.46	113.70
1	N	713	G	N7-C8-N9	5.48	115.84	113.10
1	N	925	G	C6-N1-C2	5.48	128.39	125.10
1	N	970	C	C2'-C3'-O3'	5.48	122.47	113.70
1	N	1202	U	C2-N1-C1'	5.48	124.27	117.70
1	N	1329	A	C6-C5-N7	-5.48	128.47	132.30
1	N	1349	A	C4'-C3'-C2'	5.48	108.08	102.60
1	N	62	U	C6-N1-C2	-5.48	117.71	121.00
1	N	1414	U	C6-N1-C1'	5.48	128.87	121.20
1	N	704	A	C8-N9-C4	5.47	107.99	105.80
1	N	753	A	N9-C4-C5	5.47	107.99	105.80
1	N	845	A	N1-C2-N3	5.47	132.04	129.30
1	N	1070	U	C5'-C4'-C3'	-5.47	107.24	116.00
1	N	1277	C	C5'-C4'-C3'	5.47	124.76	116.00
1	N	1532	U	N1-C2-O2	5.47	126.63	122.80
1	N	215	C	O4'-C1'-N1	5.47	112.58	108.20
1	N	393	A	P-O5'-C5'	5.47	129.66	120.90
1	N	424	G	C3'-C2'-C1'	5.47	105.88	101.50
1	N	763	G	N3-C4-N9	-5.47	122.72	126.00
1	N	848	C	C3'-C2'-C1'	5.47	105.88	101.50
1	N	974	A	C6-N1-C2	-5.47	115.32	118.60
1	N	1018	G	C3'-C2'-C1'	-5.47	97.12	101.50
1	N	249	U	N1-C2-O2	-5.47	118.97	122.80
1	N	586	C	P-O5'-C5'	-5.47	112.15	120.90
1	N	1092	A	C5-C6-N6	-5.47	119.32	123.70
1	N	993	G	C4-N9-C1'	5.47	133.61	126.50
1	N	1071	C	C2-N3-C4	5.47	122.64	119.90
1	N	1160	G	N9-C1'-C2'	-5.47	105.98	112.00
1	N	1290	G	N3-C2-N2	5.47	123.73	119.90
1	N	1419	G	OP2-P-O3'	5.47	117.23	105.20
1	N	604	G	C5-C6-O6	-5.47	125.32	128.60
1	N	762	U	OP1-P-OP2	-5.47	111.40	119.60
1	N	912	C	C5-C4-N4	-5.47	116.37	120.20
1	N	1003	G	N9-C4-C5	5.47	107.59	105.40
1	N	1319	A	N1-C6-N6	5.47	121.88	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1484	C	C2-N1-C1'	5.47	124.81	118.80
1	N	354	G	N3-C2-N2	5.47	123.73	119.90
1	N	906	A	C6-N1-C2	-5.47	115.32	118.60
1	N	995	C	P-O3'-C3'	-5.47	113.14	119.70
1	N	1299	A	C4-C5-C6	5.47	119.73	117.00
1	N	501	C	C6-N1-C2	-5.46	118.11	120.30
1	N	648	A	C4-C5-C6	5.46	119.73	117.00
1	N	1067	A	N1-C2-N3	5.46	132.03	129.30
1	N	1129	C	OP1-P-OP2	-5.46	111.41	119.60
1	N	1156	G	N9-C1'-C2'	-5.46	105.99	112.00
1	N	1191	A	C2-N3-C4	5.46	113.33	110.60
1	N	1334	G	C5-C6-N1	-5.46	108.77	111.50
1	N	845	A	N1-C6-N6	5.46	121.88	118.60
1	N	45	G	C5-C6-O6	-5.46	125.32	128.60
1	N	141	G	N7-C8-N9	5.46	115.83	113.10
1	N	281	G	N1-C6-O6	-5.46	116.62	119.90
1	N	746	A	C2-N3-C4	5.46	113.33	110.60
1	N	1124	G	C5'-C4'-C3'	-5.46	107.26	116.00
1	N	1195	C	C2-N1-C1'	5.46	124.81	118.80
1	N	108	G	C8-N9-C4	5.46	108.58	106.40
1	N	667	G	P-O5'-C5'	-5.46	112.17	120.90
1	N	115	G	N7-C8-N9	-5.46	110.37	113.10
1	N	307	C	C1'-O4'-C4'	5.46	114.27	109.90
1	N	423	G	N1-C6-O6	5.46	123.17	119.90
1	N	1002	G	C4'-C3'-C2'	-5.46	97.14	102.60
1	N	1002	G	N1-C2-N3	-5.46	120.62	123.90
1	N	1384	C	C5-C6-N1	5.46	123.73	121.00
1	N	1486	G	C4'-C3'-C2'	-5.46	97.14	102.60
1	N	147	G	C6-N1-C2	5.46	128.37	125.10
1	N	227	G	P-O3'-C3'	-5.46	113.15	119.70
1	N	360	G	C5-N7-C8	5.46	107.03	104.30
1	N	814	A	N1-C2-N3	-5.46	126.57	129.30
1	N	843	U	N3-C2-O2	5.46	126.02	122.20
1	N	917	G	N1-C2-N3	-5.46	120.63	123.90
1	N	995	C	C5'-C4'-O4'	5.46	115.65	109.10
1	N	1061	G	N9-C4-C5	-5.46	103.22	105.40
1	N	1248	A	N7-C8-N9	-5.46	111.07	113.80
1	N	271	C	N3-C2-O2	5.46	125.72	121.90
1	N	615	G	C5'-C4'-C3'	-5.46	107.27	116.00
1	N	1392	G	N7-C8-N9	5.46	115.83	113.10
1	N	43	C	N3-C2-O2	5.45	125.72	121.90
1	N	498	A	O4'-C1'-N9	5.45	112.56	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	560	A	O4'-C1'-N9	5.45	112.56	108.20
1	N	601	G	C4'-C3'-C2'	-5.45	97.15	102.60
1	N	915	A	C5-C6-N6	-5.45	119.34	123.70
1	N	1209	C	C3'-C2'-C1'	5.45	105.86	101.50
1	N	1261	A	P-O3'-C3'	-5.45	113.16	119.70
1	N	1277	C	N3-C4-N4	5.45	121.82	118.00
1	N	1432	G	C2-N3-C4	5.45	114.63	111.90
1	N	588	G	P-O3'-C3'	-5.45	113.16	119.70
1	N	1211	U	C3'-C2'-C1'	-5.45	97.14	101.50
1	N	122	G	O4'-C1'-N9	5.45	112.56	108.20
1	N	940	C	C2-N3-C4	5.45	122.62	119.90
1	N	1397	C	N3-C4-N4	5.45	121.82	118.00
1	N	1450	U	C5-C4-O4	-5.45	122.63	125.90
1	N	32	A	C4-C5-C6	5.45	119.72	117.00
1	N	1069	C	O4'-C1'-N1	5.45	112.56	108.20
1	N	1420	U	C2-N3-C4	-5.45	123.73	127.00
1	N	637	C	C1'-O4'-C4'	-5.45	105.54	109.90
1	N	775	G	C1'-O4'-C4'	-5.45	105.54	109.90
1	N	866	C	N3-C4-N4	5.45	121.81	118.00
1	N	204	G	C6-C5-N7	-5.45	127.13	130.40
1	N	225	C	N1-C2-O2	-5.45	115.63	118.90
1	N	274	A	C6-N1-C2	-5.45	115.33	118.60
1	N	410	G	C5-N7-C8	-5.45	101.58	104.30
1	N	700	G	C6-C5-N7	-5.45	127.13	130.40
1	N	757	U	N3-C4-O4	5.45	123.21	119.40
1	N	1176	A	N1-C2-N3	5.45	132.02	129.30
1	N	1239	A	C1'-O4'-C4'	-5.45	105.54	109.90
1	N	1304	G	N1-C2-N3	-5.45	120.63	123.90
1	N	272	C	C5-C4-N4	-5.44	116.39	120.20
1	N	295	C	N3-C2-O2	5.44	125.71	121.90
1	N	591	U	C5'-C4'-C3'	5.44	124.71	116.00
1	N	1160	G	C5'-C4'-O4'	-5.44	102.57	109.10
1	N	130	A	C3'-C2'-C1'	-5.44	97.15	101.50
1	N	730	G	C8-N9-C4	-5.44	104.22	106.40
1	N	861	G	C5'-C4'-C3'	5.44	124.71	116.00
1	N	1062	U	C2-N1-C1'	-5.44	111.17	117.70
1	N	1093	A	N3-C4-N9	-5.44	123.05	127.40
1	N	5	U	C2-N3-C4	5.44	130.26	127.00
1	N	271	C	N3-C4-C5	-5.44	119.72	121.90
1	N	502	A	C1'-O4'-C4'	-5.44	105.55	109.90
1	N	508	U	C5'-C4'-C3'	-5.44	107.29	116.00
1	N	937	A	P-O3'-C3'	-5.44	113.17	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1137	C	C2-N3-C4	5.44	122.62	119.90
1	N	1177	G	N1-C2-N3	-5.44	120.64	123.90
1	N	57	G	C4-C5-N7	5.44	112.98	110.80
1	N	326	G	C4-C5-C6	5.44	122.06	118.80
1	N	520	A	C2-N3-C4	-5.44	107.88	110.60
1	N	552	U	N3-C2-O2	5.44	126.01	122.20
1	N	836	G	C4-C5-C6	5.44	122.06	118.80
1	N	836	G	C8-N9-C4	-5.44	104.22	106.40
1	N	861	G	O4'-C1'-N9	5.44	112.55	108.20
1	N	1298	U	N1-C2-O2	5.44	126.61	122.80
1	N	468	A	C1'-O4'-C4'	5.44	114.25	109.90
1	N	774	G	C4-C5-N7	5.44	112.97	110.80
1	N	789	U	N1-C2-O2	-5.44	119.00	122.80
1	N	985	C	C5-C4-N4	-5.44	116.39	120.20
1	N	1455	G	O5'-P-OP1	-5.44	100.81	105.70
1	N	62	U	C5-C4-O4	5.43	129.16	125.90
1	N	394	G	C8-N9-C4	-5.43	104.23	106.40
1	N	650	G	O4'-C4'-C3'	5.43	110.45	106.10
1	N	705	G	N1-C2-N3	-5.43	120.64	123.90
1	N	876	C	N3-C4-C5	-5.43	119.73	121.90
1	N	1039	G	C4-C5-C6	5.43	122.06	118.80
1	N	1510	C	C5-C6-N1	5.43	123.72	121.00
1	N	234	C	C4'-C3'-C2'	-5.43	97.17	102.60
1	N	650	G	C6-N1-C2	5.43	128.36	125.10
1	N	671	G	N7-C8-N9	-5.43	110.38	113.10
1	N	767	A	N1-C2-N3	-5.43	126.58	129.30
1	N	1190	G	N3-C2-N2	5.43	123.70	119.90
1	N	1427	C	C4-C5-C6	5.43	120.12	117.40
1	N	280	C	C4-C5-C6	5.43	120.12	117.40
1	N	534	U	C6-N1-C1'	-5.43	113.60	121.20
1	N	754	C	C5-C4-N4	-5.43	116.40	120.20
1	N	764	C	C4'-C3'-C2'	-5.43	97.17	102.60
1	N	867	G	C5-C6-N1	-5.43	108.78	111.50
1	N	1124	G	C5-C6-N1	-5.43	108.78	111.50
1	N	177	G	C5-N7-C8	5.43	107.01	104.30
1	N	837	U	N1-C2-O2	-5.43	119.00	122.80
1	N	1182	G	C4-C5-C6	5.43	122.06	118.80
1	N	410	G	N3-C4-N9	5.43	129.26	126.00
1	N	607	A	C2-N3-C4	-5.43	107.89	110.60
1	N	807	A	N3-C4-C5	-5.43	123.00	126.80
1	N	1039	G	C6-N1-C2	-5.43	121.84	125.10
1	N	1143	G	C4-C5-C6	5.43	122.06	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1400	C	O4'-C1'-N1	5.43	112.54	108.20
1	N	1442	G	C5-C6-O6	-5.43	125.34	128.60
1	N	354	G	P-O3'-C3'	-5.42	113.19	119.70
1	N	956	U	OP2-P-O3'	5.42	117.13	105.20
1	N	1118	U	C5'-C4'-O4'	-5.42	102.59	109.10
1	N	1239	A	O4'-C1'-N9	5.42	112.54	108.20
1	N	449	G	C5-C6-N1	-5.42	108.79	111.50
1	N	1338	G	C5-C6-O6	-5.42	125.35	128.60
1	N	16	A	N1-C2-N3	5.42	132.01	129.30
1	N	227	G	C5-C6-O6	-5.42	125.35	128.60
1	N	308	C	C3'-C2'-C1'	5.42	105.84	101.50
1	N	767	A	N7-C8-N9	5.42	116.51	113.80
1	N	818	G	O4'-C1'-N9	5.42	112.54	108.20
1	N	1099	G	N1-C6-O6	5.42	123.15	119.90
1	N	1112	C	C2-N3-C4	5.42	122.61	119.90
1	N	1163	A	C6-C5-N7	-5.42	128.50	132.30
1	N	1491	G	C3'-C2'-C1'	5.42	105.84	101.50
1	N	290	C	C2'-C3'-O3'	5.42	122.37	113.70
1	N	341	C	N3-C4-C5	-5.42	119.73	121.90
1	N	393	A	O4'-C4'-C3'	-5.42	98.58	104.00
1	N	1395	C	C4-C5-C6	5.42	120.11	117.40
1	N	275	G	N1-C6-O6	5.42	123.15	119.90
1	N	726	C	N1-C2-O2	5.42	122.15	118.90
1	N	1170	A	C5-C6-N1	-5.42	114.99	117.70
1	N	585	G	C6-C5-N7	-5.42	127.15	130.40
1	N	623	C	C6-N1-C2	-5.42	118.13	120.30
1	N	796	C	C2'-C3'-O3'	5.42	122.37	113.70
1	N	1188	A	C5-C6-N6	-5.42	119.37	123.70
1	N	144	G	P-O5'-C5'	5.42	129.56	120.90
1	N	1393	U	C5-C6-N1	5.42	125.41	122.70
1	N	1424	U	O4'-C4'-C3'	5.42	110.43	106.10
1	N	1445	U	C3'-C2'-C1'	-5.42	97.17	101.50
1	N	364	A	C1'-O4'-C4'	5.41	114.23	109.90
1	N	477	C	N3-C4-C5	-5.41	119.73	121.90
1	N	1003	G	N3-C4-N9	-5.41	122.75	126.00
1	N	1308	U	C5-C4-O4	-5.41	122.65	125.90
1	N	56	U	C6-N1-C2	5.41	124.25	121.00
1	N	499	A	C4-C5-C6	5.41	119.71	117.00
1	N	888	G	OP1-P-OP2	-5.41	111.48	119.60
1	N	927	G	C4'-C3'-C2'	-5.41	97.19	102.60
1	N	1227	A	C6-C5-N7	-5.41	128.51	132.30
1	N	227	G	C6-N1-C2	5.41	128.35	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	407	U	O4'-C1'-N1	5.41	112.53	108.20
1	N	521	G	C6-N1-C2	5.41	128.35	125.10
1	N	598	U	C5-C4-O4	-5.41	122.65	125.90
1	N	902	G	N1-C6-O6	5.41	123.15	119.90
1	N	1186	G	C4-C5-C6	5.41	122.05	118.80
1	N	1275	A	C4-N9-C1'	5.41	136.04	126.30
1	N	1430	A	O4'-C1'-N9	5.41	112.53	108.20
1	N	1511	G	P-O3'-C3'	-5.41	113.21	119.70
1	N	42	G	O4'-C1'-N9	5.41	112.53	108.20
1	N	769	G	N9-C1'-C2'	-5.41	106.05	112.00
1	N	628	G	P-O3'-C3'	-5.41	113.21	119.70
1	N	1292	G	C4-C5-N7	-5.41	108.64	110.80
1	N	1383	C	C5-C4-N4	-5.41	116.42	120.20
1	N	147	G	N1-C2-N3	-5.41	120.66	123.90
1	N	499	A	C1'-O4'-C4'	5.41	114.22	109.90
1	N	597	G	C5-C6-O6	-5.41	125.36	128.60
1	N	769	G	N1-C2-N3	-5.41	120.66	123.90
1	N	954	G	C3'-C2'-C1'	-5.41	97.17	101.50
1	N	1164	G	N1-C2-N3	-5.41	120.66	123.90
1	N	1502	A	C5-C6-N1	-5.41	115.00	117.70
1	N	1523	G	N7-C8-N9	5.41	115.80	113.10
1	N	11	G	O4'-C1'-N9	5.40	112.52	108.20
1	N	278	G	C4-C5-N7	5.40	112.96	110.80
1	N	393	A	C4-C5-N7	-5.40	108.00	110.70
1	N	457	G	N9-C4-C5	-5.40	103.24	105.40
1	N	543	U	P-O3'-C3'	5.40	126.18	119.70
1	N	650	G	C2'-C3'-O3'	5.40	122.34	113.70
1	N	909	A	C5-C6-N1	-5.40	115.00	117.70
1	N	963	G	C2-N3-C4	5.40	114.60	111.90
1	N	1332	A	N7-C8-N9	5.40	116.50	113.80
1	N	1398	A	P-O5'-C5'	-5.40	112.26	120.90
1	N	43	C	P-O5'-C5'	5.40	129.54	120.90
1	N	186	C	O5'-C5'-C4'	-5.40	101.44	111.70
1	N	286	C	O4'-C1'-N1	5.40	112.52	108.20
1	N	524	G	P-O3'-C3'	5.40	126.18	119.70
1	N	803	G	P-O5'-C5'	-5.40	112.26	120.90
1	N	1142	G	C5'-C4'-C3'	-5.40	107.36	116.00
1	N	38	G	N3-C4-N9	5.40	129.24	126.00
1	N	249	U	OP2-P-O3'	5.40	117.08	105.20
1	N	811	C	C5'-C4'-C3'	5.40	124.64	116.00
1	N	1506	U	C4-C5-C6	5.40	122.94	119.70
1	N	1511	G	C5-C6-O6	-5.40	125.36	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	182	A	P-O3'-C3'	5.40	126.18	119.70
1	N	296	U	N1-C2-O2	-5.40	119.02	122.80
1	N	311	C	N1-C2-N3	-5.40	115.42	119.20
1	N	336	A	C6-C5-N7	-5.40	128.52	132.30
1	N	428	G	C3'-C2'-C1'	5.40	105.82	101.50
1	N	521	G	C4-C5-C6	5.40	122.04	118.80
1	N	907	A	C6-N1-C2	-5.40	115.36	118.60
1	N	1253	G	N9-C4-C5	-5.40	103.24	105.40
1	N	314	C	C5-C6-N1	5.40	123.70	121.00
1	N	543	U	C6-N1-C2	-5.40	117.76	121.00
1	N	608	A	C8-N9-C4	-5.40	103.64	105.80
1	N	1501	C	O4'-C4'-C3'	-5.40	98.60	104.00
1	N	179	A	P-O3'-C3'	-5.39	113.23	119.70
1	N	1131	G	N3-C2-N2	5.39	123.68	119.90
1	N	248	C	N3-C4-C5	-5.39	119.74	121.90
1	N	296	U	N3-C4-C5	-5.39	111.36	114.60
1	N	742	G	C4'-C3'-C2'	-5.39	97.21	102.60
1	N	906	A	N1-C2-N3	5.39	132.00	129.30
1	N	1271	A	C5-N7-C8	5.39	106.60	103.90
1	N	1377	A	C2-N3-C4	-5.39	107.90	110.60
1	N	266	G	N7-C8-N9	-5.39	110.40	113.10
1	N	566	G	N1-C6-O6	5.39	123.14	119.90
1	N	715	A	C2-N3-C4	5.39	113.30	110.60
1	N	1081	A	N9-C1'-C2'	-5.39	106.07	112.00
1	N	1180	A	N7-C8-N9	-5.39	111.10	113.80
1	N	192	A	N1-C2-N3	5.39	132.00	129.30
1	N	357	G	C3'-C2'-C1'	-5.39	97.19	101.50
1	N	366	A	C4'-C3'-C2'	5.39	107.99	102.60
1	N	1004	A	C6-N1-C2	5.39	121.83	118.60
1	N	1324	A	N3-C4-N9	5.39	131.71	127.40
1	N	1527	U	P-O3'-C3'	-5.39	113.23	119.70
1	N	660	C	O5'-C5'-C4'	-5.39	101.46	111.70
1	N	1031	C	O5'-C5'-C4'	5.39	121.94	111.70
1	N	1255	G	C2-N3-C4	5.39	114.59	111.90
1	N	1336	C	C6-N1-C2	-5.39	118.14	120.30
1	N	544	G	OP1-P-OP2	-5.39	111.52	119.60
1	N	816	A	C2-N3-C4	5.39	113.29	110.60
1	N	929	G	C6-N1-C2	5.39	128.33	125.10
1	N	1114	C	N3-C4-N4	5.39	121.77	118.00
1	N	1456	A	C5-C6-N1	-5.39	115.01	117.70
1	N	1533	C	N1-C1'-C2'	5.39	121.00	114.00
1	N	39	G	P-O5'-C5'	-5.38	112.28	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	354	G	C2-N3-C4	-5.38	109.21	111.90
1	N	448	A	N3-C4-N9	5.38	131.71	127.40
1	N	653	U	N1-C2-O2	5.38	126.57	122.80
1	N	970	C	N3-C4-C5	-5.38	119.75	121.90
1	N	994	A	C5-C6-N6	-5.38	119.39	123.70
1	N	1221	G	C8-N9-C1'	-5.38	120.00	127.00
1	N	1229	A	C8-N9-C4	-5.38	103.65	105.80
1	N	1410	A	P-O3'-C3'	5.38	126.16	119.70
1	N	452	A	C6-N1-C2	5.38	121.83	118.60
1	N	458	U	O4'-C1'-N1	5.38	112.51	108.20
1	N	671	G	C3'-C2'-C1'	-5.38	97.19	101.50
1	N	615	G	C2-N3-C4	-5.38	109.21	111.90
1	N	630	A	N1-C2-N3	5.38	131.99	129.30
1	N	743	A	N1-C6-N6	5.38	121.83	118.60
1	N	1355	G	C6-C5-N7	-5.38	127.17	130.40
1	N	1435	G	C3'-C2'-C1'	5.38	105.81	101.50
1	N	1448	C	C2-N3-C4	5.38	122.59	119.90
1	N	166	U	O4'-C1'-C2'	-5.38	100.42	105.80
1	N	432	A	C5-C6-N1	-5.38	115.01	117.70
1	N	452	A	C8-N9-C4	5.38	107.95	105.80
1	N	1135	U	N1-C2-N3	5.38	118.13	114.90
1	N	1451	U	N3-C4-C5	-5.38	111.37	114.60
1	N	191	G	N9-C1'-C2'	-5.38	106.08	112.00
1	N	204	G	N1-C2-N3	-5.38	120.67	123.90
1	N	364	A	C4-N9-C1'	-5.38	116.62	126.30
1	N	534	U	O4'-C4'-C3'	-5.38	98.62	104.00
1	N	801	U	O4'-C4'-C3'	-5.38	98.62	104.00
1	N	813	U	N3-C4-C5	-5.38	111.37	114.60
1	N	816	A	N3-C4-N9	5.38	131.70	127.40
1	N	888	G	O4'-C1'-C2'	5.38	112.44	107.60
1	N	1165	U	C4-C5-C6	5.38	122.93	119.70
1	N	644	U	P-O5'-C5'	5.38	129.50	120.90
1	N	871	U	C4'-C3'-C2'	-5.38	97.22	102.60
1	N	1366	C	N3-C4-N4	5.38	121.76	118.00
1	N	1443	C	C5'-C4'-O4'	5.38	115.55	109.10
1	N	77	A	C5-C6-N6	-5.38	119.40	123.70
1	N	1224	U	O4'-C1'-N1	5.38	112.50	108.20
1	N	456	A	P-O5'-C5'	-5.37	112.30	120.90
1	N	637	C	N3-C4-N4	5.37	121.76	118.00
1	N	801	U	N3-C4-O4	5.37	123.16	119.40
1	N	864	A	C5-C6-N6	-5.37	119.40	123.70
1	N	1074	G	C5-N7-C8	-5.37	101.61	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1436	U	N1-C1'-C2'	-5.37	106.09	112.00
1	N	1444	U	C5'-C4'-O4'	5.37	115.55	109.10
1	N	139	A	C4'-C3'-C2'	-5.37	97.23	102.60
1	N	227	G	OP2-P-O3'	5.37	117.02	105.20
1	N	289	G	C8-N9-C1'	-5.37	120.02	127.00
1	N	397	A	N9-C4-C5	-5.37	103.65	105.80
1	N	769	G	N3-C4-C5	-5.37	125.91	128.60
1	N	787	A	O4'-C1'-N9	5.37	112.50	108.20
1	N	789	U	C4-C5-C6	5.37	122.92	119.70
1	N	1002	G	N3-C2-N2	5.37	123.66	119.90
1	N	1385	G	N1-C2-N3	-5.37	120.68	123.90
1	N	1083	U	P-O3'-C3'	5.37	126.14	119.70
1	N	1349	A	C4-C5-C6	5.37	119.69	117.00
1	N	277	C	O4'-C1'-N1	5.37	112.50	108.20
1	N	871	U	C6-N1-C1'	-5.37	113.69	121.20
1	N	1013	G	C3'-C2'-C1'	-5.37	97.21	101.50
1	N	1142	G	C4-N9-C1'	5.37	133.48	126.50
1	N	1329	A	C4-C5-C6	5.37	119.68	117.00
1	N	524	G	C8-N9-C4	-5.37	104.25	106.40
1	N	899	C	O5'-P-OP2	-5.37	100.87	105.70
1	N	1271	A	O5'-C5'-C4'	-5.37	101.50	111.70
1	N	1516	G	C6-C5-N7	-5.37	127.18	130.40
1	N	105	G	N9-C4-C5	5.36	107.55	105.40
1	N	263	A	P-O5'-C5'	-5.36	112.32	120.90
1	N	443	C	C5-C4-N4	-5.36	116.45	120.20
1	N	483	C	C5'-C4'-O4'	5.36	115.53	109.10
1	N	914	A	N1-C6-N6	5.36	121.82	118.60
1	N	1012	A	C8-N9-C4	-5.36	103.65	105.80
1	N	1059	C	C5-C6-N1	5.36	123.68	121.00
1	N	1133	G	C8-N9-C4	-5.36	104.25	106.40
1	N	435	A	C4-C5-N7	-5.36	108.02	110.70
1	N	479	U	P-O3'-C3'	-5.36	113.27	119.70
1	N	926	G	C8-N9-C1'	-5.36	120.03	127.00
1	N	185	U	C5'-C4'-C3'	-5.36	107.42	116.00
1	N	370	C	C5-C6-N1	5.36	123.68	121.00
1	N	583	A	C1'-O4'-C4'	-5.36	105.61	109.90
1	N	670	G	N1-C2-N2	-5.36	111.38	116.20
1	N	752	G	C4-C5-N7	5.36	112.94	110.80
1	N	961	U	P-O3'-C3'	-5.36	113.27	119.70
1	N	1106	G	N3-C4-N9	-5.36	122.78	126.00
1	N	1189	U	C5-C4-O4	-5.36	122.68	125.90
1	N	1227	A	N1-C2-N3	5.36	131.98	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1468	A	C5'-C4'-O4'	5.36	115.53	109.10
1	N	554	A	N7-C8-N9	-5.36	111.12	113.80
1	N	926	G	C4-N9-C1'	5.36	133.47	126.50
1	N	1127	G	C6-C5-N7	-5.36	127.19	130.40
1	N	1197	A	N9-C4-C5	-5.36	103.66	105.80
1	N	246	A	C4-C5-C6	5.36	119.68	117.00
1	N	301	G	C5-C6-N1	-5.36	108.82	111.50
1	N	346	G	N3-C4-C5	-5.36	125.92	128.60
1	N	109	A	C5-N7-C8	5.36	106.58	103.90
1	N	845	A	C2-N3-C4	-5.36	107.92	110.60
1	N	934	C	C4-C5-C6	5.36	120.08	117.40
1	N	1082	A	C5'-C4'-C3'	-5.36	107.43	116.00
1	N	1264	U	O5'-C5'-C4'	-5.36	101.53	111.70
1	N	664	G	C6-N1-C2	5.35	128.31	125.10
1	N	1464	U	C5-C6-N1	5.35	125.38	122.70
1	N	123	U	C6-N1-C2	5.35	124.21	121.00
1	N	486	U	C5-C4-O4	-5.35	122.69	125.90
1	N	531	U	P-O3'-C3'	5.35	126.12	119.70
1	N	834	U	N3-C4-O4	5.35	123.15	119.40
1	N	881	G	N9-C1'-C2'	-5.35	106.11	112.00
1	N	1002	G	C5-C6-N1	-5.35	108.82	111.50
1	N	1027	C	O4'-C1'-N1	5.35	112.48	108.20
1	N	168	G	O4'-C4'-C3'	-5.35	98.65	104.00
1	N	869	G	C4'-C3'-C2'	-5.35	97.25	102.60
1	N	1002	G	N3-C4-C5	-5.35	125.92	128.60
1	N	1147	C	O4'-C1'-N1	5.35	112.48	108.20
1	N	1467	C	N1-C2-N3	-5.35	115.45	119.20
1	N	595	A	C2-N3-C4	-5.35	107.93	110.60
1	N	695	A	C4-C5-C6	5.35	119.67	117.00
1	N	912	C	C2-N3-C4	5.35	122.57	119.90
1	N	1198	G	N3-C4-C5	-5.35	125.92	128.60
1	N	1232	U	O4'-C4'-C3'	-5.35	98.65	104.00
1	N	1409	C	C5-C6-N1	5.35	123.67	121.00
1	N	369	G	P-O3'-C3'	-5.35	113.28	119.70
1	N	455	G	N7-C8-N9	5.35	115.77	113.10
1	N	501	C	C6-N1-C1'	-5.35	114.38	120.80
1	N	512	U	N1-C2-N3	5.35	118.11	114.90
1	N	711	G	O4'-C4'-C3'	-5.35	98.65	104.00
1	N	805	C	C4-C5-C6	5.35	120.07	117.40
1	N	1064	G	C5-N7-C8	5.35	106.97	104.30
1	N	1195	C	N1-C1'-C2'	-5.35	106.12	112.00
1	N	1342	C	C5-C6-N1	5.35	123.67	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1480	A	N3-C4-C5	-5.35	123.06	126.80
1	N	336	A	C1'-O4'-C4'	5.35	114.18	109.90
1	N	174	A	O4'-C1'-N9	5.34	112.48	108.20
1	N	210	C	N3-C4-N4	5.34	121.74	118.00
1	N	247	G	C2-N3-C4	-5.34	109.23	111.90
1	N	1327	C	O4'-C1'-N1	5.34	112.48	108.20
1	N	891	U	C4'-C3'-C2'	-5.34	97.26	102.60
1	N	154	U	N1-C2-N3	-5.34	111.69	114.90
1	N	272	C	C4'-C3'-C2'	-5.34	97.26	102.60
1	N	295	C	P-O5'-C5'	5.34	129.45	120.90
1	N	559	A	P-O5'-C5'	5.34	129.45	120.90
1	N	1111	A	N9-C4-C5	5.34	107.94	105.80
1	N	1113	C	O4'-C1'-N1	5.34	112.47	108.20
1	N	547	A	N7-C8-N9	-5.34	111.13	113.80
1	N	563	A	O5'-P-OP2	-5.34	100.89	105.70
1	N	441	A	C4-C5-C6	5.34	119.67	117.00
1	N	665	A	C8-N9-C4	-5.34	103.67	105.80
1	N	804	U	C3'-C2'-C1'	5.34	105.77	101.50
1	N	1169	A	C6-N1-C2	-5.34	115.40	118.60
1	N	290	C	O4'-C1'-N1	5.33	112.47	108.20
1	N	453	G	C4-N9-C1'	5.33	133.44	126.50
1	N	278	G	C6-N1-C2	-5.33	121.90	125.10
1	N	461	A	C5-C6-N6	-5.33	119.43	123.70
1	N	508	U	C1'-O4'-C4'	5.33	114.17	109.90
1	N	1377	A	C5-N7-C8	5.33	106.57	103.90
1	N	15	G	C4-C5-N7	5.33	112.93	110.80
1	N	764	C	C5-C4-N4	5.33	123.93	120.20
1	N	1339	A	C5-N7-C8	5.33	106.57	103.90
1	N	315	A	C4-C5-N7	5.33	113.36	110.70
1	N	581	G	C5-C6-O6	-5.33	125.40	128.60
1	N	1035	A	C6-C5-N7	-5.33	128.57	132.30
1	N	1194	U	O4'-C1'-N1	5.33	112.46	108.20
1	N	134	G	N7-C8-N9	-5.33	110.44	113.10
1	N	672	U	C3'-C2'-C1'	5.33	105.76	101.50
1	N	852	G	C4'-C3'-C2'	-5.33	97.27	102.60
1	N	1079	G	C5-N7-C8	5.33	106.96	104.30
1	N	1394	A	N3-C4-C5	-5.33	123.07	126.80
1	N	1526	G	C6-N1-C2	-5.33	121.90	125.10
1	N	62	U	C2-N1-C1'	5.33	124.09	117.70
1	N	869	G	C5'-C4'-C3'	-5.33	107.48	116.00
1	N	1147	C	C3'-C2'-C1'	5.33	105.76	101.50
1	N	1320	C	N3-C4-N4	5.33	121.73	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	75	G	C5'-C4'-O4'	5.33	115.49	109.10
1	N	524	G	O4'-C1'-C2'	-5.33	100.47	105.80
1	N	690	G	C8-N9-C1'	5.33	133.92	127.00
1	N	1190	G	C4-C5-C6	5.33	122.00	118.80
1	N	1382	C	N1-C2-O2	-5.33	115.70	118.90
1	N	183	C	C5-C4-N4	-5.32	116.47	120.20
1	N	400	C	C6-N1-C2	-5.32	118.17	120.30
1	N	717	U	C2'-C3'-O3'	5.32	122.22	113.70
1	N	760	G	C4-N9-C1'	5.32	133.42	126.50
1	N	886	G	N1-C2-N3	-5.32	120.71	123.90
1	N	1125	U	C2-N3-C4	5.32	130.19	127.00
1	N	1194	U	N1-C2-O2	-5.32	119.07	122.80
1	N	1242	G	C6-N1-C2	5.32	128.29	125.10
1	N	1247	U	N1-C1'-C2'	-5.32	106.14	112.00
1	N	1403	C	C2-N1-C1'	5.32	124.66	118.80
1	N	197	A	C5-C6-N1	-5.32	115.04	117.70
1	N	39	G	C6-C5-N7	-5.32	127.21	130.40
1	N	112	G	C5-C6-N1	-5.32	108.84	111.50
1	N	129	A	C5-C6-N6	-5.32	119.44	123.70
1	N	344	A	C8-N9-C4	-5.32	103.67	105.80
1	N	473	U	C5-C4-O4	5.32	129.09	125.90
1	N	1194	U	N3-C4-C5	5.32	117.79	114.60
1	N	1315	U	C3'-C2'-C1'	5.32	105.76	101.50
1	N	294	U	C2-N3-C4	5.32	130.19	127.00
1	N	318	G	C6-C5-N7	-5.32	127.21	130.40
1	N	403	C	C2-N1-C1'	5.32	124.65	118.80
1	N	917	G	C4'-C3'-C2'	-5.32	97.28	102.60
1	N	149	A	C4-C5-C6	5.32	119.66	117.00
1	N	653	U	C5'-C4'-O4'	5.32	115.48	109.10
1	N	830	G	N3-C4-C5	-5.32	125.94	128.60
1	N	1044	A	C2-N3-C4	-5.32	107.94	110.60
1	N	1195	C	OP1-P-OP2	-5.32	111.62	119.60
1	N	1418	A	C6-C5-N7	-5.32	128.58	132.30
1	N	1463	U	N3-C4-O4	5.32	123.12	119.40
1	N	34	C	C6-N1-C1'	5.32	127.18	120.80
1	N	854	U	O5'-C5'-C4'	-5.32	101.60	111.70
1	N	890	G	C3'-C2'-C1'	-5.32	97.25	101.50
1	N	918	A	C5-N7-C8	-5.32	101.24	103.90
1	N	940	C	C2-N1-C1'	5.32	124.65	118.80
1	N	1027	C	N3-C4-C5	-5.32	119.77	121.90
1	N	1210	C	C5-C6-N1	5.32	123.66	121.00
1	N	102	G	C6-C5-N7	-5.31	127.21	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	822	U	C2-N3-C4	-5.31	123.81	127.00
1	N	958	A	O4'-C1'-N9	5.31	112.45	108.20
1	N	1037	C	N3-C4-C5	-5.31	119.77	121.90
1	N	1283	U	N3-C4-C5	-5.31	111.41	114.60
1	N	1349	A	N3-C4-C5	-5.31	123.08	126.80
1	N	527	G	C6-C5-N7	-5.31	127.21	130.40
1	N	670	G	N1-C2-N3	5.31	127.09	123.90
1	N	715	A	C6-C5-N7	5.31	136.02	132.30
1	N	962	C	N3-C2-O2	5.31	125.62	121.90
1	N	1144	G	P-O5'-C5'	5.31	129.40	120.90
1	N	1312	G	C5-N7-C8	5.31	106.96	104.30
1	N	1349	A	C5-N7-C8	5.31	106.56	103.90
1	N	897	C	N1-C2-O2	-5.31	115.71	118.90
1	N	1368	A	OP2-P-O3'	5.31	116.88	105.20
1	N	643	C	O4'-C1'-N1	5.31	112.45	108.20
1	N	659	U	N3-C4-C5	-5.31	111.41	114.60
1	N	661	G	C6-N1-C2	5.31	128.28	125.10
1	N	1047	G	C5-C6-N1	-5.31	108.85	111.50
1	N	1150	A	C6-C5-N7	-5.31	128.58	132.30
1	N	1419	G	N3-C2-N2	5.31	123.62	119.90
1	N	601	G	N1-C2-N3	-5.31	120.72	123.90
1	N	727	G	N3-C2-N2	5.31	123.62	119.90
1	N	788	U	N1-C2-O2	-5.31	119.08	122.80
1	N	871	U	P-O3'-C3'	5.31	126.07	119.70
1	N	1000	A	O4'-C4'-C3'	-5.31	98.69	104.00
1	N	1381	U	C5'-C4'-C3'	-5.31	107.51	116.00
1	N	1425	U	N1-C2-N3	5.31	118.08	114.90
1	N	1482	G	O5'-C5'-C4'	-5.31	101.62	111.70
1	N	411	A	P-O5'-C5'	5.31	129.39	120.90
1	N	651	C	O4'-C1'-N1	5.31	112.44	108.20
1	N	712	A	O4'-C1'-N9	5.31	112.44	108.20
1	N	1433	A	O3'-P-O5'	-5.31	93.92	104.00
1	N	54	C	C5-C4-N4	-5.30	116.49	120.20
1	N	606	G	C3'-C2'-C1'	-5.30	97.26	101.50
1	N	1165	U	N1-C2-O2	-5.30	119.09	122.80
1	N	1314	C	P-O3'-C3'	-5.30	113.33	119.70
1	N	376	G	C5-C6-N1	-5.30	108.85	111.50
1	N	531	U	N1-C2-N3	5.30	118.08	114.90
1	N	844	G	C8-N9-C4	-5.30	104.28	106.40
1	N	882	C	C6-N1-C2	-5.30	118.18	120.30
1	N	49	U	P-O3'-C3'	-5.30	113.34	119.70
1	N	147	G	C3'-C2'-C1'	-5.30	97.26	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	238	A	C4-C5-C6	5.30	119.65	117.00
1	N	346	G	O4'-C1'-C2'	5.30	112.37	107.60
1	N	903	G	N1-C2-N3	-5.30	120.72	123.90
1	N	1460	C	C4-C5-C6	5.30	120.05	117.40
1	N	1472	U	O4'-C4'-C3'	-5.30	98.70	104.00
1	N	619	U	P-O3'-C3'	-5.30	113.34	119.70
1	N	871	U	C3'-C2'-C1'	5.30	105.74	101.50
1	N	908	A	C5-C6-N6	-5.30	119.46	123.70
1	N	920	U	C4'-C3'-C2'	-5.30	97.30	102.60
1	N	1115	U	N3-C2-O2	5.30	125.91	122.20
1	N	1284	C	C2-N1-C1'	5.30	124.63	118.80
1	N	97	G	O4'-C4'-C3'	-5.30	98.70	104.00
1	N	686	U	C4-C5-C6	5.30	122.88	119.70
1	N	830	G	C6-N1-C2	5.30	128.28	125.10
1	N	1463	U	N3-C4-C5	-5.30	111.42	114.60
1	N	42	G	N3-C4-C5	-5.30	125.95	128.60
1	N	267	C	N1-C2-O2	5.30	122.08	118.90
1	N	384	G	C4-N9-C1'	5.30	133.39	126.50
1	N	784	A	C2-N3-C4	-5.30	107.95	110.60
1	N	841	C	C2-N1-C1'	5.30	124.63	118.80
1	N	887	G	C2-N3-C4	5.30	114.55	111.90
1	N	1200	C	OP1-P-OP2	-5.30	111.66	119.60
1	N	1238	A	C4-N9-C1'	-5.30	116.77	126.30
1	N	1435	G	N1-C6-O6	5.30	123.08	119.90
1	N	1534	A	C4-C5-N7	-5.30	108.05	110.70
1	N	728	A	C5'-C4'-O4'	5.29	115.45	109.10
1	N	995	C	C4-C5-C6	5.29	120.05	117.40
1	N	1083	U	C6-N1-C2	-5.29	117.82	121.00
1	N	493	A	C2-N3-C4	5.29	113.25	110.60
1	N	793	U	C4-C5-C6	5.29	122.88	119.70
1	N	191	G	N1-C6-O6	5.29	123.08	119.90
1	N	707	U	C6-N1-C2	5.29	124.17	121.00
1	N	737	C	N3-C2-O2	5.29	125.60	121.90
1	N	887	G	N9-C1'-C2'	-5.29	106.18	112.00
1	N	1387	G	C4-C5-N7	-5.29	108.68	110.80
1	N	209	U	O4'-C1'-N1	5.29	112.43	108.20
1	N	1371	G	N3-C2-N2	5.29	123.60	119.90
1	N	297	G	C8-N9-C1'	5.29	133.88	127.00
1	N	300	A	N9-C4-C5	5.29	107.92	105.80
1	N	1021	A	P-O3'-C3'	5.29	126.05	119.70
1	N	1306	A	N3-C4-N9	5.29	131.63	127.40
1	N	1394	A	C4-C5-N7	-5.29	108.06	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	157	U	C2-N3-C4	-5.29	123.83	127.00
1	N	862	C	C3'-C2'-C1'	-5.29	97.27	101.50
1	N	1397	C	C3'-C2'-C1'	-5.29	97.27	101.50
1	N	182	A	C5'-C4'-C3'	-5.29	107.55	116.00
1	N	305	G	C6-N1-C2	5.29	128.27	125.10
1	N	617	G	N1-C2-N3	-5.29	120.73	123.90
1	N	1304	G	N3-C4-N9	5.29	129.17	126.00
1	N	1508	A	N9-C4-C5	-5.29	103.69	105.80
1	N	49	U	O4'-C1'-C2'	-5.28	100.52	105.80
1	N	219	U	C3'-C2'-C1'	-5.28	97.27	101.50
1	N	279	A	N1-C2-N3	5.28	131.94	129.30
1	N	830	G	N3-C2-N2	5.28	123.60	119.90
1	N	935	A	N3-C4-C5	-5.28	123.10	126.80
1	N	1461	G	N1-C6-O6	5.28	123.07	119.90
1	N	253	A	C5-N7-C8	5.28	106.54	103.90
1	N	573	A	N7-C8-N9	5.28	116.44	113.80
1	N	809	G	C4-N9-C1'	-5.28	119.63	126.50
1	N	317	U	C6-N1-C1'	-5.28	113.81	121.20
1	N	393	A	C5-C6-N6	-5.28	119.48	123.70
1	N	514	C	C3'-C2'-C1'	-5.28	97.28	101.50
1	N	583	A	C5-C6-N1	-5.28	115.06	117.70
1	N	781	A	N3-C4-C5	-5.28	123.10	126.80
1	N	821	G	N3-C4-N9	5.28	129.17	126.00
1	N	1054	C	N1-C2-O2	5.28	122.07	118.90
1	N	1288	A	P-O3'-C3'	-5.28	113.36	119.70
1	N	1417	G	C2-N3-C4	-5.28	109.26	111.90
1	N	91	U	C3'-C2'-C1'	5.28	105.72	101.50
1	N	737	C	P-O5'-C5'	5.28	129.35	120.90
1	N	1524	C	C6-N1-C1'	-5.28	114.47	120.80
1	N	162	A	C4-C5-C6	5.28	119.64	117.00
1	N	178	C	C2-N1-C1'	5.28	124.61	118.80
1	N	506	G	N1-C6-O6	5.28	123.07	119.90
1	N	617	G	C3'-C2'-C1'	5.28	105.72	101.50
1	N	681	A	C1'-O4'-C4'	-5.28	105.68	109.90
1	N	902	G	P-O5'-C5'	5.28	129.34	120.90
1	N	107	G	C3'-C2'-C1'	5.28	105.72	101.50
1	N	338	A	C4'-C3'-C2'	-5.28	97.33	102.60
1	N	540	G	C8-N9-C1'	5.28	133.86	127.00
1	N	836	G	C6-C5-N7	-5.28	127.23	130.40
1	N	1167	A	N7-C8-N9	-5.28	111.16	113.80
1	N	76	G	C2-N3-C4	-5.27	109.26	111.90
1	N	713	G	C8-N9-C4	-5.27	104.29	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	828	U	C5-C6-N1	5.27	125.34	122.70
1	N	1394	A	P-O5'-C5'	5.27	129.34	120.90
1	N	142	G	C4-C5-C6	5.27	121.96	118.80
1	N	548	G	C6-N1-C2	5.27	128.26	125.10
1	N	1089	G	O4'-C1'-N9	5.27	112.42	108.20
1	N	1333	A	C5-C6-N6	-5.27	119.48	123.70
1	N	37	U	N3-C2-O2	5.27	125.89	122.20
1	N	74	A	C3'-C2'-C1'	-5.27	97.28	101.50
1	N	1008	U	OP2-P-O3'	5.27	116.80	105.20
1	N	208	U	P-O3'-C3'	5.27	126.02	119.70
1	N	626	G	C5'-C4'-O4'	-5.27	102.78	109.10
1	N	952	U	C5-C4-O4	-5.27	122.74	125.90
1	N	1298	U	O4'-C1'-N1	5.27	112.42	108.20
1	N	1482	G	N3-C2-N2	5.27	123.59	119.90
1	N	131	A	C4-C5-C6	5.27	119.63	117.00
1	N	541	G	C5-C6-N1	5.27	114.13	111.50
1	N	767	A	C5-C6-N6	-5.27	119.49	123.70
1	N	922	G	C8-N9-C4	-5.27	104.29	106.40
1	N	1218	C	N3-C4-N4	5.27	121.69	118.00
1	N	1292	G	N9-C1'-C2'	-5.27	106.20	112.00
1	N	28	A	N7-C8-N9	5.27	116.43	113.80
1	N	131	A	N9-C4-C5	5.27	107.91	105.80
1	N	400	C	C3'-C2'-C1'	5.27	105.71	101.50
1	N	1337	G	C5-C6-N1	-5.27	108.87	111.50
1	N	71	A	N3-C4-N9	5.26	131.61	127.40
1	N	540	G	O4'-C4'-C3'	5.26	110.31	106.10
1	N	569	C	C4'-C3'-C2'	5.26	107.86	102.60
1	N	1396	A	O4'-C1'-N9	5.26	112.41	108.20
1	N	1475	G	C5'-C4'-C3'	5.26	124.42	116.00
1	N	1079	G	N1-C2-N3	-5.26	120.74	123.90
1	N	34	C	OP1-P-OP2	-5.26	111.71	119.60
1	N	671	G	C5-N7-C8	5.26	106.93	104.30
1	N	718	A	C4-C5-C6	5.26	119.63	117.00
1	N	1089	G	C5'-C4'-C3'	-5.26	107.58	116.00
1	N	325	A	C5-C6-N1	5.26	120.33	117.70
1	N	405	U	N1-C2-O2	-5.26	119.12	122.80
1	N	431	A	OP2-P-O3'	5.26	116.77	105.20
1	N	732	C	N3-C2-O2	5.26	125.58	121.90
1	N	745	G	C4-C5-C6	5.26	121.95	118.80
1	N	1089	G	C4-C5-N7	-5.26	108.70	110.80
1	N	232	G	O4'-C4'-C3'	-5.26	98.74	104.00
1	N	258	G	C5'-C4'-C3'	-5.26	107.59	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	287	U	N3-C4-O4	5.26	123.08	119.40
1	N	1025	U	C5-C4-O4	5.26	129.05	125.90
1	N	1034	G	C2'-C3'-O3'	5.26	122.11	113.70
1	N	1102	A	P-O3'-C3'	-5.26	113.39	119.70
1	N	210	C	N3-C4-C5	-5.25	119.80	121.90
1	N	573	A	O4'-C1'-N9	5.25	112.40	108.20
1	N	1282	C	C6-N1-C2	-5.25	118.20	120.30
1	N	186	C	C4'-C3'-C2'	-5.25	97.35	102.60
1	N	258	G	C4-C5-C6	5.25	121.95	118.80
1	N	309	A	C5-C6-N6	-5.25	119.50	123.70
1	N	1102	A	N1-C6-N6	5.25	121.75	118.60
1	N	1167	A	N1-C2-N3	5.25	131.93	129.30
1	N	1419	G	O5'-P-OP1	-5.25	100.97	105.70
1	N	111	G	O5'-C5'-C4'	-5.25	101.72	111.70
1	N	120	A	C3'-C2'-C1'	-5.25	97.30	101.50
1	N	216	U	C2-N3-C4	5.25	130.15	127.00
1	N	602	A	O4'-C1'-N9	5.25	112.40	108.20
1	N	638	U	N1-C1'-C2'	-5.25	106.22	112.00
1	N	868	C	C2-N1-C1'	5.25	124.58	118.80
1	N	1081	A	C4-C5-C6	5.25	119.63	117.00
1	N	1167	A	P-O5'-C5'	-5.25	112.50	120.90
1	N	1210	C	C5-C4-N4	-5.25	116.52	120.20
1	N	1330	U	C6-N1-C2	-5.25	117.85	121.00
1	N	868	C	N3-C4-C5	-5.25	119.80	121.90
1	N	1288	A	C4-C5-N7	-5.25	108.08	110.70
1	N	251	G	N9-C4-C5	5.25	107.50	105.40
1	N	806	C	N1-C2-N3	-5.25	115.53	119.20
1	N	864	A	C5-C6-N1	-5.25	115.08	117.70
1	N	1394	A	C3'-C2'-C1'	-5.25	97.30	101.50
1	N	1396	A	P-O5'-C5'	5.25	129.30	120.90
1	N	1462	C	O4'-C1'-N1	5.25	112.40	108.20
1	N	1530	G	P-O5'-C5'	-5.25	112.50	120.90
1	N	28	A	C3'-C2'-C1'	-5.25	97.30	101.50
1	N	74	A	C4-C5-N7	-5.25	108.08	110.70
1	N	259	G	N1-C2-N3	-5.25	120.75	123.90
1	N	356	A	C5-C6-N6	-5.25	119.50	123.70
1	N	700	G	N3-C4-N9	5.25	129.15	126.00
1	N	738	C	N3-C4-C5	-5.25	119.80	121.90
1	N	1043	G	N1-C2-N3	-5.25	120.75	123.90
1	N	1370	G	N1-C2-N3	-5.25	120.75	123.90
1	N	1526	G	C5'-C4'-C3'	-5.25	107.60	116.00
1	N	331	G	C8-N9-C4	-5.25	104.30	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	506	G	O4'-C1'-N9	5.25	112.40	108.20
1	N	730	G	OP2-P-O3'	5.25	116.74	105.20
1	N	1165	U	C5-C6-N1	-5.25	120.08	122.70
1	N	1493	A	C5-C6-N1	-5.25	115.08	117.70
1	N	374	A	P-O3'-C3'	-5.24	113.41	119.70
1	N	600	A	C4-C5-C6	5.24	119.62	117.00
1	N	727	G	C4'-C3'-C2'	-5.24	97.36	102.60
1	N	793	U	C6-N1-C1'	-5.24	113.86	121.20
1	N	1090	U	C6-N1-C2	5.24	124.15	121.00
1	N	1344	C	N1-C2-O2	-5.24	115.75	118.90
1	N	116	A	N9-C4-C5	5.24	107.90	105.80
1	N	213	G	C5-N7-C8	5.24	106.92	104.30
1	N	1278	G	C2'-C3'-O3'	5.24	122.09	113.70
1	N	70	U	C5-C6-N1	5.24	125.32	122.70
1	N	144	G	N1-C2-N3	-5.24	120.76	123.90
1	N	450	G	C4-C5-C6	-5.24	115.66	118.80
1	N	511	C	C6-N1-C2	-5.24	118.20	120.30
1	N	628	G	N3-C4-C5	5.24	131.22	128.60
1	N	641	U	C6-N1-C2	5.24	124.14	121.00
1	N	702	A	N1-C2-N3	5.24	131.92	129.30
1	N	801	U	O4'-C1'-N1	5.24	112.39	108.20
1	N	983	A	N3-C4-C5	-5.24	123.13	126.80
1	N	1149	C	N3-C4-N4	5.24	121.67	118.00
1	N	1204	A	C4-C5-N7	5.24	113.32	110.70
1	N	1214	C	C2-N3-C4	-5.24	117.28	119.90
1	N	1417	G	C4-C5-C6	5.24	121.94	118.80
1	N	238	A	C6-N1-C2	-5.24	115.46	118.60
1	N	380	G	C6-N1-C2	-5.24	121.96	125.10
1	N	699	C	N3-C4-N4	5.24	121.67	118.00
1	N	1228	C	C2-N1-C1'	5.24	124.56	118.80
1	N	1351	U	C3'-C2'-C1'	5.24	105.69	101.50
1	N	1381	U	N1-C2-O2	5.24	126.47	122.80
1	N	747	A	C2-N3-C4	-5.24	107.98	110.60
1	N	223	A	P-O3'-C3'	-5.24	113.42	119.70
1	N	317	U	O4'-C1'-N1	5.24	112.39	108.20
1	N	408	A	C4-C5-N7	-5.24	108.08	110.70
1	N	410	G	N1-C2-N2	-5.24	111.49	116.20
1	N	611	C	N1-C2-O2	-5.24	115.76	118.90
1	N	655	A	C5'-C4'-O4'	5.24	115.38	109.10
1	N	1198	G	O4'-C1'-N9	5.24	112.39	108.20
1	N	1231	G	O4'-C4'-C3'	-5.24	98.77	104.00
1	N	1331	G	N3-C2-N2	5.24	123.56	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1507	A	C5-N7-C8	5.24	106.52	103.90
1	N	287	U	C5-C4-O4	-5.23	122.76	125.90
1	N	440	C	C4'-C3'-C2'	5.23	107.83	102.60
1	N	529	G	C3'-C2'-C1'	5.23	105.69	101.50
1	N	100	G	O4'-C1'-N9	5.23	112.39	108.20
1	N	175	C	P-O5'-C5'	5.23	129.27	120.90
1	N	197	A	C5'-C4'-C3'	5.23	124.37	116.00
1	N	722	G	C4-N9-C1'	5.23	133.30	126.50
1	N	1346	A	P-O3'-C3'	5.23	125.98	119.70
1	N	1407	C	N1-C2-O2	-5.23	115.76	118.90
1	N	1485	U	P-O3'-C3'	-5.23	113.42	119.70
1	N	144	G	N3-C4-N9	-5.23	122.86	126.00
1	N	456	A	C8-N9-C4	-5.23	103.71	105.80
1	N	491	G	C6-C5-N7	-5.23	127.26	130.40
1	N	517	G	OP1-P-OP2	-5.23	111.75	119.60
1	N	574	A	N7-C8-N9	-5.23	111.19	113.80
1	N	875	U	N3-C2-O2	5.23	125.86	122.20
1	N	1046	A	C8-N9-C1'	5.23	137.11	127.70
1	N	1245	C	P-O3'-C3'	-5.23	113.42	119.70
1	N	1394	A	C5'-C4'-C3'	-5.23	107.63	116.00
1	N	1462	C	OP1-P-OP2	-5.23	111.75	119.60
1	N	1472	U	O4'-C1'-C2'	-5.23	100.57	105.80
1	N	90	C	C1'-O4'-C4'	5.23	114.08	109.90
1	N	927	G	N9-C4-C5	-5.23	103.31	105.40
1	N	1246	A	C6-N1-C2	5.23	121.74	118.60
1	N	49	U	N3-C4-C5	-5.23	111.46	114.60
1	N	435	A	C2-N3-C4	-5.23	107.99	110.60
1	N	506	G	C6-C5-N7	-5.23	127.26	130.40
1	N	1058	G	C5'-C4'-O4'	5.23	115.37	109.10
1	N	1086	U	C5-C4-O4	-5.23	122.76	125.90
1	N	1178	G	N9-C4-C5	-5.23	103.31	105.40
1	N	1282	C	C5'-C4'-C3'	5.23	124.36	116.00
1	N	1517	G	OP1-P-OP2	-5.23	111.76	119.60
1	N	342	C	C6-N1-C2	-5.22	118.21	120.30
1	N	411	A	C5-C6-N6	-5.22	119.52	123.70
1	N	567	G	N3-C2-N2	5.22	123.56	119.90
1	N	568	G	N9-C4-C5	-5.22	103.31	105.40
1	N	586	C	N3-C4-C5	-5.22	119.81	121.90
1	N	720	C	C6-N1-C2	-5.22	118.21	120.30
1	N	963	G	C5-C6-N1	-5.22	108.89	111.50
1	N	1158	C	C4-C5-C6	5.22	120.01	117.40
1	N	1185	G	O4'-C4'-C3'	-5.22	98.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1233	G	C6-N1-C2	5.22	128.23	125.10
1	N	13	U	C4'-C3'-C2'	5.22	107.82	102.60
1	N	120	A	C4-C5-C6	5.22	119.61	117.00
1	N	324	G	C4-N9-C1'	5.22	133.29	126.50
1	N	394	G	P-O5'-C5'	-5.22	112.55	120.90
1	N	431	A	C5-C6-N1	-5.22	115.09	117.70
1	N	559	A	C6-N1-C2	-5.22	115.47	118.60
1	N	674	G	C4-C5-N7	5.22	112.89	110.80
1	N	754	C	C4-C5-C6	-5.22	114.79	117.40
1	N	62	U	N3-C4-C5	-5.22	111.47	114.60
1	N	252	U	C5-C4-O4	-5.22	122.77	125.90
1	N	333	U	C2-N3-C4	-5.22	123.87	127.00
1	N	449	G	N3-C2-N2	5.22	123.55	119.90
1	N	15	G	O4'-C1'-N9	5.22	112.38	108.20
1	N	305	G	N1-C2-N3	-5.22	120.77	123.90
1	N	904	U	C1'-O4'-C4'	5.22	114.08	109.90
1	N	967	C	N3-C4-C5	-5.22	119.81	121.90
1	N	1011	C	C4-C5-C6	5.22	120.01	117.40
1	N	1092	A	C8-N9-C4	-5.22	103.71	105.80
1	N	1344	C	N3-C2-O2	5.22	125.55	121.90
1	N	1361	G	N1-C2-N3	-5.22	120.77	123.90
1	N	1454	G	C6-N1-C2	5.22	128.23	125.10
1	N	38	G	N3-C2-N2	5.22	123.55	119.90
1	N	56	U	O4'-C1'-N1	5.22	112.38	108.20
1	N	230	G	C5-C6-O6	-5.22	125.47	128.60
1	N	263	A	OP1-P-OP2	-5.22	111.77	119.60
1	N	365	U	C4-C5-C6	5.22	122.83	119.70
1	N	1279	G	N9-C4-C5	-5.22	103.31	105.40
1	N	1298	U	C5-C6-N1	5.22	125.31	122.70
1	N	77	A	O4'-C1'-N9	5.22	112.37	108.20
1	N	212	G	O4'-C1'-N9	5.22	112.37	108.20
1	N	554	A	C5'-C4'-C3'	5.22	124.35	116.00
1	N	563	A	O4'-C1'-N9	5.22	112.37	108.20
1	N	600	A	N9-C4-C5	5.22	107.89	105.80
1	N	601	G	C4-C5-C6	5.22	121.93	118.80
1	N	1006	G	C5-N7-C8	-5.22	101.69	104.30
1	N	1356	G	C6-C5-N7	-5.22	127.27	130.40
1	N	160	A	N3-C4-C5	-5.21	123.15	126.80
1	N	733	G	C5-C6-N1	-5.21	108.89	111.50
1	N	819	A	C5-N7-C8	5.21	106.51	103.90
1	N	999	C	C4-C5-C6	5.21	120.01	117.40
1	N	1134	G	N3-C4-C5	5.21	131.21	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1257	A	N1-C2-N3	5.21	131.91	129.30
1	N	1307	U	C5'-C4'-C3'	-5.21	107.66	116.00
1	N	1425	U	N3-C2-O2	-5.21	118.55	122.20
1	N	1458	G	C6-C5-N7	-5.21	127.27	130.40
1	N	1488	G	N1-C6-O6	5.21	123.03	119.90
1	N	1074	G	C4-C5-N7	5.21	112.89	110.80
1	N	1523	G	O4'-C1'-N9	5.21	112.37	108.20
1	N	40	C	N3-C4-C5	-5.21	119.82	121.90
1	N	107	G	C5-C6-N1	-5.21	108.89	111.50
1	N	401	C	N3-C4-C5	-5.21	119.81	121.90
1	N	712	A	N3-C4-N9	5.21	131.57	127.40
1	N	1187	G	N3-C4-N9	5.21	129.13	126.00
1	N	1413	A	C6-C5-N7	-5.21	128.65	132.30
1	N	1515	G	N3-C4-N9	-5.21	122.87	126.00
1	N	155	A	C6-N1-C2	5.21	121.73	118.60
1	N	308	C	C1'-O4'-C4'	5.21	114.07	109.90
1	N	886	G	O4'-C1'-N9	5.21	112.37	108.20
1	N	943	U	C6-N1-C1'	-5.21	113.91	121.20
1	N	1250	A	C8-N9-C4	5.21	107.88	105.80
1	N	1457	G	N3-C4-C5	-5.21	126.00	128.60
1	N	135	C	C1'-O4'-C4'	5.21	114.07	109.90
1	N	590	U	C4-C5-C6	-5.21	116.58	119.70
1	N	620	C	C5-C6-N1	5.21	123.60	121.00
1	N	707	U	C1'-O4'-C4'	5.21	114.07	109.90
1	N	787	A	C5-N7-C8	5.21	106.50	103.90
1	N	1279	G	C5'-C4'-O4'	5.21	115.35	109.10
1	N	49	U	C5-C6-N1	5.21	125.30	122.70
1	N	415	A	C8-N9-C4	-5.21	103.72	105.80
1	N	1002	G	C4-C5-C6	5.21	121.92	118.80
1	N	1345	U	N3-C2-O2	5.21	125.84	122.20
1	N	1359	C	C4'-C3'-C2'	-5.21	97.39	102.60
1	N	1431	A	C5'-C4'-O4'	-5.21	102.85	109.10
1	N	574	A	C5-C6-N6	-5.21	119.54	123.70
1	N	953	G	C4-C5-C6	-5.21	115.68	118.80
1	N	841	C	C2-N3-C4	5.20	122.50	119.90
1	N	1412	C	C4-C5-C6	-5.20	114.80	117.40
1	N	1177	G	C8-N9-C1'	-5.20	120.24	127.00
1	N	1242	G	O4'-C4'-C3'	-5.20	98.80	104.00
1	N	1456	A	C4-C5-C6	5.20	119.60	117.00
1	N	1206	G	C5-C6-N1	-5.20	108.90	111.50
1	N	1331	G	C2'-C3'-O3'	5.20	122.02	113.70
1	N	1377	A	O3'-P-O5'	-5.20	94.12	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	838	G	N3-C2-N2	5.20	123.54	119.90
1	N	1169	A	C5-C6-N6	-5.20	119.54	123.70
1	N	697	U	N1-C2-O2	-5.20	119.16	122.80
1	N	972	C	C4'-C3'-C2'	-5.20	97.40	102.60
1	N	1205	U	N1-C2-N3	5.20	118.02	114.90
1	N	500	G	P-O5'-C5'	-5.20	112.59	120.90
1	N	596	A	P-O5'-C5'	5.20	129.21	120.90
1	N	660	C	N1-C1'-C2'	-5.20	106.28	112.00
1	N	832	G	C4-C5-C6	5.20	121.92	118.80
1	N	1140	C	N1-C2-O2	5.20	122.02	118.90
1	N	1203	C	C4'-C3'-C2'	-5.20	97.41	102.60
1	N	1272	G	N3-C2-N2	5.20	123.54	119.90
1	N	1517	G	O4'-C1'-C2'	-5.20	100.61	105.80
1	N	1528	U	O5'-P-OP2	-5.20	101.03	105.70
1	N	688	G	C5-C6-O6	-5.19	125.48	128.60
1	N	854	U	C3'-C2'-C1'	5.19	105.66	101.50
1	N	172	A	N3-C4-N9	5.19	131.56	127.40
1	N	222	C	C4'-C3'-C2'	-5.19	97.41	102.60
1	N	372	C	OP1-P-O3'	5.19	116.62	105.20
1	N	406	G	O4'-C1'-N9	5.19	112.35	108.20
1	N	966	G	N1-C2-N3	-5.19	120.78	123.90
1	N	1289	A	C3'-C2'-C1'	-5.19	97.35	101.50
1	N	1297	G	N3-C4-N9	-5.19	122.89	126.00
1	N	69	G	C4-C5-C6	5.19	121.91	118.80
1	N	557	G	N9-C4-C5	-5.19	103.33	105.40
1	N	1085	U	C5'-C4'-C3'	-5.19	107.70	116.00
1	N	79	G	N1-C2-N3	-5.19	120.79	123.90
1	N	111	G	C4-C5-C6	5.19	121.91	118.80
1	N	239	U	C6-N1-C2	-5.19	117.89	121.00
1	N	310	G	C6-N1-C2	5.19	128.21	125.10
1	N	419	C	N3-C4-N4	5.19	121.63	118.00
1	N	454	G	C4-C5-N7	-5.19	108.72	110.80
1	N	780	A	C4-C5-N7	-5.19	108.11	110.70
1	N	1265	C	C2-N3-C4	5.19	122.49	119.90
1	N	1514	G	O4'-C1'-N9	5.19	112.35	108.20
1	N	361	G	P-O3'-C3'	5.19	125.92	119.70
1	N	366	A	C4-C5-N7	-5.19	108.11	110.70
1	N	851	G	O4'-C1'-N9	5.19	112.35	108.20
1	N	1276	G	C6-C5-N7	-5.19	127.29	130.40
1	N	1430	A	C5-C6-N1	-5.19	115.11	117.70
1	N	1447	A	C6-C5-N7	-5.19	128.67	132.30
1	N	126	G	N9-C4-C5	-5.18	103.33	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1029	U	C4-C5-C6	-5.18	116.59	119.70
1	N	1101	A	C8-N9-C1'	-5.18	118.37	127.70
1	N	1393	U	C4-C5-C6	-5.18	116.59	119.70
1	N	1465	A	N7-C8-N9	5.18	116.39	113.80
1	N	280	C	O4'-C1'-N1	5.18	112.35	108.20
1	N	284	C	C4-C5-C6	5.18	119.99	117.40
1	N	337	G	C4'-C3'-C2'	-5.18	97.42	102.60
1	N	645	G	C8-N9-C4	5.18	108.47	106.40
1	N	966	G	OP1-P-OP2	-5.18	111.83	119.60
1	N	1085	U	C5-C6-N1	-5.18	120.11	122.70
1	N	1093	A	C5'-C4'-O4'	5.18	115.32	109.10
1	N	1241	G	C6-N1-C2	5.18	128.21	125.10
1	N	1292	G	N3-C4-C5	-5.18	126.01	128.60
1	N	1431	A	C4-N9-C1'	5.18	135.63	126.30
1	N	494	G	N1-C2-N2	-5.18	111.54	116.20
1	N	776	G	C8-N9-C1'	5.18	133.74	127.00
1	N	794	A	C5-C6-N6	-5.18	119.56	123.70
1	N	1128	C	N3-C4-C5	-5.18	119.83	121.90
1	N	1481	U	C6-N1-C2	-5.18	117.89	121.00
1	N	418	C	C5'-C4'-O4'	5.18	115.31	109.10
1	N	542	G	C6-C5-N7	-5.18	127.29	130.40
1	N	609	A	C6-C5-N7	-5.18	128.68	132.30
1	N	749	A	C6-N1-C2	-5.18	115.49	118.60
1	N	771	G	O5'-C5'-C4'	-5.18	101.86	111.70
1	N	1417	G	N9-C4-C5	-5.18	103.33	105.40
1	N	1435	G	C5-C6-N1	-5.18	108.91	111.50
1	N	515	G	C4-C5-N7	5.18	112.87	110.80
1	N	654	G	C5'-C4'-O4'	-5.18	102.89	109.10
1	N	995	C	N3-C4-N4	5.18	121.62	118.00
1	N	1268	G	C6-C5-N7	-5.18	127.29	130.40
1	N	86	G	O4'-C1'-N9	5.18	112.34	108.20
1	N	204	G	C8-N9-C4	-5.18	104.33	106.40
1	N	1244	G	O4'-C1'-N9	5.18	112.34	108.20
1	N	1398	A	N1-C2-N3	5.18	131.89	129.30
1	N	129	A	N3-C4-N9	-5.17	123.26	127.40
1	N	223	A	C6-N1-C2	5.17	121.70	118.60
1	N	816	A	P-O3'-C3'	-5.17	113.49	119.70
1	N	827	U	N1-C2-N3	5.17	118.00	114.90
1	N	1027	C	N1-C2-N3	5.17	122.82	119.20
1	N	1366	C	O4'-C1'-N1	5.17	112.34	108.20
1	N	196	A	O4'-C1'-C2'	5.17	112.26	107.60
1	N	383	A	C6-C5-N7	-5.17	128.68	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	448	A	C3'-C2'-C1'	5.17	105.64	101.50
1	N	465	A	C6-N1-C2	5.17	121.70	118.60
1	N	206	C	O4'-C1'-N1	5.17	112.34	108.20
1	N	246	A	C1'-O4'-C4'	5.17	114.04	109.90
1	N	268	U	C2-N3-C4	-5.17	123.90	127.00
1	N	453	G	N7-C8-N9	5.17	115.69	113.10
1	N	480	U	N1-C1'-C2'	-5.17	106.31	112.00
1	N	580	C	C5-C4-N4	-5.17	116.58	120.20
1	N	1144	G	N3-C4-C5	5.17	131.19	128.60
1	N	1167	A	C4-C5-C6	5.17	119.58	117.00
1	N	336	A	N1-C2-N3	-5.17	126.72	129.30
1	N	755	G	N3-C4-C5	-5.17	126.02	128.60
1	N	1276	G	P-O3'-C3'	-5.17	113.50	119.70
1	N	1433	A	C5-C6-N6	-5.17	119.56	123.70
1	N	76	G	N3-C2-N2	5.17	123.52	119.90
1	N	150	U	C6-N1-C2	-5.17	117.90	121.00
1	N	199	A	C5-C6-N1	-5.17	115.12	117.70
1	N	296	U	C2-N3-C4	-5.17	123.90	127.00
1	N	471	U	C4'-C3'-C2'	-5.17	97.43	102.60
1	N	494	G	C4-C5-N7	5.17	112.87	110.80
1	N	602	A	C6-C5-N7	-5.17	128.68	132.30
1	N	614	C	C2-N1-C1'	-5.17	113.11	118.80
1	N	753	A	C5'-C4'-O4'	5.17	115.30	109.10
1	N	836	G	O5'-C5'-C4'	-5.17	101.88	111.70
1	N	850	U	C5-C6-N1	5.17	125.28	122.70
1	N	866	C	C2-N3-C4	5.17	122.48	119.90
1	N	890	G	C8-N9-C4	5.17	108.47	106.40
1	N	1092	A	C2-N3-C4	-5.17	108.02	110.60
1	N	1414	U	N3-C4-C5	-5.17	111.50	114.60
1	N	1483	A	O4'-C1'-N9	5.17	112.33	108.20
1	N	1508	A	C4'-C3'-C2'	-5.17	97.43	102.60
1	N	323	U	C6-N1-C2	-5.17	117.90	121.00
1	N	323	U	O4'-C1'-N1	5.17	112.33	108.20
1	N	860	A	N3-C4-N9	-5.17	123.27	127.40
1	N	937	A	OP1-P-OP2	-5.17	111.85	119.60
1	N	986	U	C5-C6-N1	5.17	125.28	122.70
1	N	1215	G	C4-C5-C6	5.17	121.90	118.80
1	N	1336	C	N3-C4-N4	5.17	121.62	118.00
1	N	1500	A	N1-C2-N3	5.17	131.88	129.30
1	N	42	G	N1-C2-N3	-5.17	120.80	123.90
1	N	671	G	C5'-C4'-O4'	5.17	115.30	109.10
1	N	1127	G	O5'-P-OP2	-5.17	101.05	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	148	G	N7-C8-N9	5.16	115.68	113.10
1	N	784	A	N9-C1'-C2'	-5.16	106.32	112.00
1	N	947	G	C2-N3-C4	5.16	114.48	111.90
1	N	1117	A	C2-N3-C4	-5.16	108.02	110.60
1	N	1118	U	C4'-C3'-C2'	5.16	107.76	102.60
1	N	1508	A	N1-C2-N3	5.16	131.88	129.30
1	N	20	U	C4'-C3'-C2'	-5.16	97.44	102.60
1	N	132	C	C2-N1-C1'	-5.16	113.12	118.80
1	N	1177	G	C6-C5-N7	-5.16	127.30	130.40
1	N	1246	A	C8-N9-C4	-5.16	103.73	105.80
1	N	62	U	P-O3'-C3'	-5.16	113.51	119.70
1	N	429	U	N3-C2-O2	5.16	125.81	122.20
1	N	576	C	N3-C2-O2	5.16	125.51	121.90
1	N	626	G	N7-C8-N9	5.16	115.68	113.10
1	N	942	G	C5'-C4'-C3'	-5.16	107.74	116.00
1	N	1121	U	N1-C2-N3	-5.16	111.80	114.90
1	N	1372	U	O4'-C4'-C3'	-5.16	98.84	104.00
1	N	322	C	C6-N1-C2	-5.16	118.24	120.30
1	N	323	U	P-O3'-C3'	-5.16	113.51	119.70
1	N	340	U	N3-C4-C5	-5.16	111.50	114.60
1	N	623	C	C4-C5-C6	5.16	119.98	117.40
1	N	1063	C	N3-C4-N4	5.16	121.61	118.00
1	N	49	U	P-O5'-C5'	5.16	129.15	120.90
1	N	58	C	C2-N3-C4	5.16	122.48	119.90
1	N	993	G	O4'-C1'-N9	5.16	112.33	108.20
1	N	323	U	O5'-C5'-C4'	-5.16	101.91	111.70
1	N	1389	C	C4'-C3'-C2'	-5.16	97.44	102.60
1	N	748	G	O4'-C1'-N9	5.15	112.32	108.20
1	N	876	C	P-O5'-C5'	5.15	129.15	120.90
1	N	884	U	C2-N3-C4	5.15	130.09	127.00
1	N	47	C	C5-C4-N4	-5.15	116.59	120.20
1	N	517	G	N3-C2-N2	5.15	123.51	119.90
1	N	802	A	O4'-C1'-N9	5.15	112.32	108.20
1	N	892	A	C4-C5-N7	-5.15	108.12	110.70
1	N	1011	C	N3-C2-O2	5.15	125.51	121.90
1	N	1021	A	C5'-C4'-C3'	5.15	124.25	116.00
1	N	1346	A	N9-C4-C5	-5.15	103.74	105.80
1	N	1444	U	C3'-C2'-C1'	5.15	105.62	101.50
1	N	171	A	C1'-O4'-C4'	5.15	114.02	109.90
1	N	538	G	N3-C4-C5	-5.15	126.03	128.60
1	N	548	G	N9-C4-C5	-5.15	103.34	105.40
1	N	618	C	C5-C6-N1	5.15	123.58	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	811	C	C6-N1-C2	-5.15	118.24	120.30
1	N	891	U	O4'-C4'-C3'	-5.15	98.85	104.00
1	N	935	A	C4'-C3'-C2'	-5.15	97.45	102.60
1	N	1093	A	C1'-O4'-C4'	5.15	114.02	109.90
1	N	1188	A	C3'-C2'-C1'	-5.15	97.38	101.50
1	N	1221	G	N1-C2-N3	-5.15	120.81	123.90
1	N	1323	G	P-O3'-C3'	-5.15	113.52	119.70
1	N	1491	G	C6-N1-C2	5.15	128.19	125.10
1	N	110	C	C6-N1-C1'	-5.15	114.62	120.80
1	N	163	C	P-O3'-C3'	5.15	125.88	119.70
1	N	689	C	C6-N1-C1'	-5.15	114.62	120.80
1	N	1006	G	C6-N1-C2	5.15	128.19	125.10
1	N	154	U	C5-C6-N1	-5.15	120.13	122.70
1	N	445	G	C5'-C4'-C3'	-5.15	107.76	116.00
1	N	841	C	N3-C2-O2	-5.15	118.30	121.90
1	N	122	G	C3'-C2'-C1'	5.15	105.62	101.50
1	N	168	G	O3'-P-O5'	-5.15	94.22	104.00
1	N	610	U	C5-C6-N1	5.15	125.27	122.70
1	N	1012	A	N9-C4-C5	5.15	107.86	105.80
1	N	443	C	O5'-P-OP1	-5.14	101.07	105.70
1	N	783	C	O4'-C1'-N1	5.14	112.31	108.20
1	N	1228	C	P-O3'-C3'	5.14	125.87	119.70
1	N	41	G	C4-C5-N7	-5.14	108.74	110.80
1	N	61	G	C4-C5-N7	5.14	112.86	110.80
1	N	702	A	C6-C5-N7	-5.14	128.70	132.30
1	N	859	G	C8-N9-C4	5.14	108.46	106.40
1	N	944	G	O4'-C1'-N9	5.14	112.31	108.20
1	N	979	C	N1-C2-O2	5.14	121.99	118.90
1	N	1405	G	P-O3'-C3'	-5.14	113.53	119.70
1	N	1428	A	P-O3'-C3'	5.14	125.87	119.70
1	N	476	U	C5-C6-N1	5.14	125.27	122.70
1	N	690	G	C6-N1-C2	5.14	128.18	125.10
1	N	795	C	N1-C2-N3	-5.14	115.60	119.20
1	N	832	G	C6-N1-C2	-5.14	122.02	125.10
1	N	988	G	C2-N3-C4	5.14	114.47	111.90
1	N	1403	C	N3-C2-O2	-5.14	118.30	121.90
1	N	173	U	C5'-C4'-O4'	5.14	115.27	109.10
1	N	264	C	C5-C6-N1	5.14	123.57	121.00
1	N	400	C	C5-C4-N4	-5.14	116.60	120.20
1	N	631	C	C6-N1-C1'	-5.14	114.63	120.80
1	N	802	A	C5-C6-N6	-5.14	119.59	123.70
1	N	1090	U	N1-C2-O2	-5.14	119.20	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1513	A	O4'-C1'-N9	5.14	112.31	108.20
1	N	300	A	N7-C8-N9	5.14	116.37	113.80
1	N	705	G	C6-C5-N7	-5.14	127.32	130.40
1	N	1209	C	P-O3'-C3'	-5.14	113.53	119.70
1	N	33	A	C5'-C4'-C3'	5.14	124.22	116.00
1	N	391	G	C1'-O4'-C4'	5.14	114.01	109.90
1	N	841	C	C6-N1-C2	-5.14	118.25	120.30
1	N	917	G	C8-N9-C4	-5.14	104.35	106.40
1	N	1385	G	C6-C5-N7	-5.14	127.32	130.40
1	N	1423	G	C6-N1-C2	5.14	128.18	125.10
1	N	1509	C	O4'-C4'-C3'	-5.14	98.86	104.00
1	N	189	A	C6-N1-C2	5.13	121.68	118.60
1	N	209	U	P-O3'-C3'	-5.13	113.54	119.70
1	N	293	G	N1-C2-N2	-5.13	111.58	116.20
1	N	302	G	C8-N9-C1'	5.13	133.68	127.00
1	N	747	A	O5'-C5'-C4'	-5.13	101.94	111.70
1	N	1049	U	OP2-P-O3'	5.13	116.50	105.20
1	N	1242	G	N3-C2-N2	5.13	123.49	119.90
1	N	1432	G	C6-C5-N7	-5.13	127.32	130.40
1	N	1475	G	C4-C5-C6	5.13	121.88	118.80
1	N	1339	A	O4'-C1'-N9	5.13	112.31	108.20
1	N	34	C	N3-C4-N4	5.13	121.59	118.00
1	N	47	C	C2-N1-C1'	5.13	124.44	118.80
1	N	256	U	C6-N1-C2	5.13	124.08	121.00
1	N	554	A	OP2-P-O3'	5.13	116.49	105.20
1	N	714	G	C6-N1-C2	-5.13	122.02	125.10
1	N	836	G	C6-N1-C2	5.13	128.18	125.10
1	N	1000	A	N3-C4-C5	-5.13	123.21	126.80
1	N	1087	G	P-O5'-C5'	5.13	129.11	120.90
1	N	1236	A	N1-C2-N3	5.13	131.87	129.30
1	N	1249	C	O4'-C4'-C3'	-5.13	98.87	104.00
1	N	1295	U	N1-C2-O2	-5.13	119.21	122.80
1	N	1338	G	N9-C4-C5	5.13	107.45	105.40
1	N	573	A	C4-C5-N7	5.13	113.27	110.70
1	N	1279	G	O4'-C4'-C3'	-5.13	98.87	104.00
1	N	102	G	C5'-C4'-O4'	5.13	115.25	109.10
1	N	123	U	O4'-C1'-N1	5.13	112.30	108.20
1	N	267	C	C1'-O4'-C4'	5.13	114.00	109.90
1	N	280	C	N3-C2-O2	-5.13	118.31	121.90
1	N	313	A	C4-N9-C1'	5.13	135.53	126.30
1	N	404	G	N3-C4-N9	-5.13	122.92	126.00
1	N	412	A	O4'-C1'-C2'	-5.13	100.67	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	489	C	C2'-C3'-O3'	5.13	121.91	113.70
1	N	896	C	C5-C6-N1	-5.13	118.44	121.00
1	N	1128	C	P-O5'-C5'	5.13	129.10	120.90
1	N	1178	G	N1-C6-O6	5.13	122.98	119.90
1	N	1325	C	N3-C2-O2	5.13	125.49	121.90
1	N	1476	A	C5-N7-C8	5.13	106.46	103.90
1	N	251	G	OP1-P-OP2	-5.13	111.91	119.60
1	N	361	G	C3'-C2'-C1'	5.13	105.60	101.50
1	N	662	U	N3-C4-O4	5.13	122.99	119.40
1	N	917	G	C6-C5-N7	-5.13	127.32	130.40
1	N	1225	A	C6-N1-C2	5.13	121.67	118.60
1	N	1454	G	N1-C6-O6	5.13	122.98	119.90
1	N	1334	G	O4'-C1'-N9	5.12	112.30	108.20
1	N	184	G	C4-C5-C6	5.12	121.87	118.80
1	N	221	C	O4'-C1'-N1	5.12	112.30	108.20
1	N	459	A	N9-C4-C5	5.12	107.85	105.80
1	N	534	U	N3-C4-C5	-5.12	111.53	114.60
1	N	601	G	N7-C8-N9	-5.12	110.54	113.10
1	N	670	G	C2'-C3'-O3'	5.12	121.90	113.70
1	N	800	G	C3'-C2'-C1'	5.12	105.60	101.50
1	N	123	U	C2-N3-C4	5.12	130.07	127.00
1	N	774	G	C5-C6-O6	-5.12	125.53	128.60
1	N	1207	G	P-O3'-C3'	-5.12	113.56	119.70
1	N	102	G	N3-C4-C5	5.12	131.16	128.60
1	N	670	G	C5'-C4'-C3'	5.12	124.19	116.00
1	N	721	G	C5'-C4'-O4'	5.12	115.24	109.10
1	N	1174	G	C5'-C4'-O4'	5.12	115.24	109.10
1	N	1481	U	C1'-O4'-C4'	5.12	114.00	109.90
1	N	50	A	C4-C5-N7	-5.12	108.14	110.70
1	N	317	U	O4'-C4'-C3'	-5.12	98.88	104.00
1	N	723	U	O4'-C4'-C3'	-5.12	98.88	104.00
1	N	789	U	OP1-P-OP2	-5.12	111.92	119.60
1	N	1049	U	C2-N1-C1'	-5.12	111.56	117.70
1	N	1186	G	C6-C5-N7	-5.12	127.33	130.40
1	N	1316	G	O4'-C1'-N9	5.12	112.30	108.20
1	N	1412	C	C6-N1-C1'	5.12	126.94	120.80
1	N	1477	U	C1'-O4'-C4'	-5.12	105.81	109.90
1	N	114	U	C5-C6-N1	5.12	125.26	122.70
1	N	458	U	N3-C2-O2	5.12	125.78	122.20
1	N	534	U	N1-C2-N3	-5.12	111.83	114.90
1	N	881	G	C8-N9-C4	5.12	108.45	106.40
1	N	991	U	C5-C6-N1	5.12	125.26	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1032	G	C2-N3-C4	5.12	114.46	111.90
1	N	1063	C	C4-C5-C6	5.12	119.96	117.40
1	N	1111	A	C5-C6-N6	-5.12	119.61	123.70
1	N	1350	A	C8-N9-C4	-5.12	103.75	105.80
1	N	1412	C	N3-C4-C5	5.12	123.95	121.90
1	N	1421	G	OP1-P-O3'	5.12	116.46	105.20
1	N	170	U	OP2-P-O3'	5.12	116.45	105.20
1	N	248	C	C1'-O4'-C4'	-5.12	105.81	109.90
1	N	306	A	N9-C4-C5	5.12	107.85	105.80
1	N	358	U	C6-N1-C2	-5.12	117.93	121.00
1	N	725	G	N9-C4-C5	-5.12	103.35	105.40
1	N	958	A	C5-N7-C8	-5.12	101.34	103.90
1	N	1205	U	C5-C6-N1	5.12	125.26	122.70
1	N	61	G	N3-C4-N9	-5.11	122.93	126.00
1	N	65	A	C5-C6-N1	-5.11	115.14	117.70
1	N	533	A	C5-N7-C8	5.11	106.46	103.90
1	N	970	C	O4'-C4'-C3'	5.11	110.19	106.10
1	N	1515	G	C4-C5-C6	5.11	121.87	118.80
1	N	561	U	C5-C4-O4	-5.11	122.83	125.90
1	N	595	A	C5-N7-C8	5.11	106.46	103.90
1	N	628	G	OP1-P-OP2	-5.11	111.93	119.60
1	N	750	C	O4'-C1'-C2'	-5.11	100.69	105.80
1	N	185	U	C5'-C4'-O4'	5.11	115.23	109.10
1	N	429	U	N1-C2-N3	-5.11	111.83	114.90
1	N	566	G	N9-C4-C5	5.11	107.44	105.40
1	N	667	G	O4'-C1'-N9	5.11	112.29	108.20
1	N	1108	G	N9-C1'-C2'	-5.11	106.38	112.00
1	N	1124	G	P-O5'-C5'	5.11	129.08	120.90
1	N	1401	G	C4-C5-N7	5.11	112.84	110.80
1	N	814	A	C6-C5-N7	-5.11	128.72	132.30
1	N	1050	G	N3-C4-C5	5.11	131.16	128.60
1	N	97	G	N1-C2-N3	-5.11	120.84	123.90
1	N	114	U	O4'-C1'-N1	5.11	112.29	108.20
1	N	155	A	N9-C4-C5	-5.11	103.76	105.80
1	N	185	U	C4'-C3'-C2'	-5.11	97.49	102.60
1	N	437	U	N3-C4-O4	5.11	122.98	119.40
1	N	886	G	C6-N1-C2	5.11	128.16	125.10
1	N	915	A	C4-C5-N7	-5.11	108.15	110.70
1	N	973	G	C5-C6-N1	-5.11	108.95	111.50
1	N	1039	G	N1-C6-O6	5.11	122.97	119.90
1	N	1346	A	C6-C5-N7	-5.11	128.72	132.30
1	N	175	C	N1-C2-O2	5.11	121.96	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	262	A	O4'-C1'-N9	5.11	112.28	108.20
1	N	440	C	P-O3'-C3'	5.11	125.83	119.70
1	N	556	C	C2-N3-C4	5.11	122.45	119.90
1	N	602	A	C2'-C3'-O3'	5.11	121.87	113.70
1	N	1017	U	C5-C6-N1	-5.11	120.15	122.70
1	N	1228	C	P-O5'-C5'	-5.11	112.73	120.90
1	N	1430	A	O5'-P-OP1	5.11	116.83	110.70
1	N	1478	U	N1-C2-N3	-5.11	111.84	114.90
1	N	149	A	C5-C6-N6	-5.10	119.62	123.70
1	N	198	G	O4'-C1'-C2'	5.10	112.19	107.60
1	N	254	G	C4-C5-C6	5.10	121.86	118.80
1	N	662	U	C5-C4-O4	-5.10	122.84	125.90
1	N	1030	U	C2-N1-C1'	5.10	123.83	117.70
1	N	1046	A	N7-C8-N9	5.10	116.35	113.80
1	N	417	G	N3-C4-C5	-5.10	126.05	128.60
1	N	419	C	C6-N1-C1'	5.10	126.92	120.80
1	N	838	G	P-O5'-C5'	5.10	129.06	120.90
1	N	851	G	C5-C6-N1	-5.10	108.95	111.50
1	N	955	U	O4'-C1'-N1	5.10	112.28	108.20
1	N	1035	A	C3'-C2'-C1'	5.10	105.58	101.50
1	N	1128	C	C2-N3-C4	5.10	122.45	119.90
1	N	1142	G	C4-C5-N7	5.10	112.84	110.80
1	N	1149	C	C3'-C2'-C1'	-5.10	97.42	101.50
1	N	1235	U	N3-C4-C5	-5.10	111.54	114.60
1	N	1355	G	C4'-C3'-C2'	-5.10	97.50	102.60
1	N	1092	A	C5'-C4'-C3'	5.10	124.16	116.00
1	N	589	U	O4'-C1'-C2'	5.10	112.19	107.60
1	N	260	G	C8-N9-C4	5.10	108.44	106.40
1	N	420	U	N1-C1'-C2'	-5.10	106.39	112.00
1	N	753	A	N3-C4-N9	-5.10	123.32	127.40
1	N	912	C	O4'-C1'-N1	5.10	112.28	108.20
1	N	945	G	N3-C4-C5	5.10	131.15	128.60
1	N	726	C	C5'-C4'-O4'	5.10	115.22	109.10
1	N	733	G	C5-C6-O6	5.10	131.66	128.60
1	N	773	G	N1-C2-N2	5.10	120.79	116.20
1	N	1080	A	C2-N3-C4	5.10	113.15	110.60
1	N	1240	U	C1'-O4'-C4'	5.10	113.98	109.90
1	N	1269	A	C8-N9-C4	-5.10	103.76	105.80
1	N	237	G	N3-C4-C5	5.09	131.15	128.60
1	N	286	C	C6-N1-C2	-5.09	118.26	120.30
1	N	341	C	C2-N3-C4	5.09	122.45	119.90
1	N	503	C	P-O5'-C5'	5.09	129.05	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	538	G	N9-C4-C5	5.09	107.44	105.40
1	N	609	A	C1'-O4'-C4'	5.09	113.98	109.90
1	N	1430	A	C5'-C4'-C3'	5.09	124.15	116.00
1	N	1495	U	N3-C4-O4	5.09	122.97	119.40
1	N	143	A	C3'-C2'-C1'	5.09	105.57	101.50
1	N	741	G	C5-N7-C8	5.09	106.85	104.30
1	N	1110	A	P-O5'-C5'	5.09	129.05	120.90
1	N	94	G	OP1-P-OP2	-5.09	111.96	119.60
1	N	142	G	N1-C6-O6	5.09	122.95	119.90
1	N	159	G	C3'-C2'-C1'	5.09	105.57	101.50
1	N	205	A	P-O5'-C5'	-5.09	112.75	120.90
1	N	257	G	C4-C5-N7	5.09	112.84	110.80
1	N	352	C	C2-N3-C4	-5.09	117.35	119.90
1	N	960	U	C2-N1-C1'	5.09	123.81	117.70
1	N	1179	A	C5-C6-N1	-5.09	115.15	117.70
1	N	1271	A	C6-N1-C2	-5.09	115.55	118.60
1	N	382	A	C6-C5-N7	-5.09	128.74	132.30
1	N	722	G	C4-C5-N7	-5.09	108.76	110.80
1	N	813	U	N3-C2-O2	5.09	125.76	122.20
1	N	1046	A	O4'-C4'-C3'	-5.09	98.91	104.00
1	N	1134	G	N3-C2-N2	5.09	123.46	119.90
1	N	1386	G	C8-N9-C4	-5.09	104.36	106.40
1	N	1488	G	C3'-C2'-C1'	5.09	105.57	101.50
1	N	104	G	C5'-C4'-O4'	5.09	115.20	109.10
1	N	205	A	P-O3'-C3'	5.09	125.81	119.70
1	N	374	A	C5'-C4'-O4'	-5.09	103.00	109.10
1	N	453	G	C5-N7-C8	-5.09	101.76	104.30
1	N	616	G	C5-C6-O6	-5.09	125.55	128.60
1	N	1108	G	C5-N7-C8	5.09	106.84	104.30
1	N	1376	U	C6-N1-C1'	5.09	128.32	121.20
1	N	1460	C	C6-N1-C2	-5.09	118.27	120.30
1	N	1509	C	C2-N3-C4	5.09	122.44	119.90
1	N	234	C	C2-N3-C4	5.08	122.44	119.90
1	N	452	A	C1'-O4'-C4'	-5.08	105.83	109.90
1	N	913	A	C6-C5-N7	-5.08	128.74	132.30
1	N	1034	G	C5-C6-N1	5.08	114.04	111.50
1	N	1225	A	N1-C2-N3	5.08	131.84	129.30
1	N	31	G	O3'-P-O5'	-5.08	94.34	104.00
1	N	122	G	C5-C6-O6	-5.08	125.55	128.60
1	N	198	G	C5-C6-O6	-5.08	125.55	128.60
1	N	204	G	C5'-C4'-C3'	5.08	124.14	116.00
1	N	702	A	OP1-P-OP2	-5.08	111.97	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	744	C	N3-C4-C5	-5.08	119.87	121.90
1	N	757	U	C4-C5-C6	5.08	122.75	119.70
1	N	812	G	C5'-C4'-O4'	5.08	115.20	109.10
1	N	901	A	C5'-C4'-O4'	5.08	115.20	109.10
1	N	63	C	C6-N1-C2	-5.08	118.27	120.30
1	N	316	C	C1'-O4'-C4'	-5.08	105.83	109.90
1	N	963	G	N3-C4-N9	5.08	129.05	126.00
1	N	976	G	C6-C5-N7	-5.08	127.35	130.40
1	N	1176	A	C6-C5-N7	-5.08	128.74	132.30
1	N	1265	C	N1-C2-N3	-5.08	115.64	119.20
1	N	1306	A	N3-C4-C5	-5.08	123.24	126.80
1	N	1323	G	C6-C5-N7	-5.08	127.35	130.40
1	N	582	C	P-O3'-C3'	-5.08	113.60	119.70
1	N	986	U	N1-C2-O2	-5.08	119.24	122.80
1	N	77	A	C5'-C4'-C3'	-5.08	107.87	116.00
1	N	432	A	N9-C1'-C2'	-5.08	106.41	112.00
1	N	491	G	N3-C2-N2	5.08	123.45	119.90
1	N	502	A	N1-C6-N6	5.08	121.65	118.60
1	N	571	U	O4'-C1'-N1	5.08	112.26	108.20
1	N	968	A	N3-C4-N9	5.08	131.46	127.40
1	N	1276	G	O4'-C1'-N9	5.08	112.26	108.20
1	N	1528	U	OP1-P-O3'	5.08	116.37	105.20
1	N	663	A	N3-C4-N9	5.08	131.46	127.40
1	N	907	A	N1-C2-N3	5.08	131.84	129.30
1	N	1522	U	C5'-C4'-C3'	5.08	124.12	116.00
1	N	84	U	C6-N1-C2	5.07	124.04	121.00
1	N	991	U	N1-C1'-C2'	-5.07	106.42	112.00
1	N	1068	G	N1-C2-N3	-5.07	120.86	123.90
1	N	1112	C	O4'-C4'-C3'	-5.07	98.93	104.00
1	N	1175	G	N1-C2-N2	-5.07	111.63	116.20
1	N	1193	G	C4-N9-C1'	5.07	133.09	126.50
1	N	1291	U	C3'-C2'-C1'	-5.07	97.44	101.50
1	N	1364	U	C5'-C4'-C3'	5.07	124.12	116.00
1	N	630	A	O3'-P-O5'	-5.07	94.36	104.00
1	N	1276	G	P-O5'-C5'	5.07	129.01	120.90
1	N	303	A	C3'-C2'-C1'	-5.07	97.44	101.50
1	N	377	G	P-O3'-C3'	-5.07	113.61	119.70
1	N	567	G	N1-C2-N3	-5.07	120.86	123.90
1	N	747	A	N9-C4-C5	5.07	107.83	105.80
1	N	765	G	P-O3'-C3'	-5.07	113.62	119.70
1	N	863	U	C5'-C4'-O4'	5.07	115.18	109.10
1	N	956	U	N1-C2-N3	-5.07	111.86	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1042	A	O3'-P-O5'	-5.07	94.37	104.00
1	N	1103	C	C6-N1-C1'	-5.07	114.72	120.80
1	N	1238	A	N1-C6-N6	5.07	121.64	118.60
1	N	691	G	N1-C2-N3	-5.07	120.86	123.90
1	N	1128	C	C4-C5-C6	-5.07	114.87	117.40
1	N	1177	G	N3-C4-C5	5.07	131.13	128.60
1	N	1377	A	C3'-C2'-C1'	5.07	105.55	101.50
1	N	1472	U	C5-C4-O4	-5.07	122.86	125.90
1	N	441	A	N9-C4-C5	-5.07	103.77	105.80
1	N	648	A	N7-C8-N9	5.07	116.33	113.80
1	N	659	U	C5-C6-N1	5.07	125.23	122.70
1	N	972	C	C5'-C4'-O4'	-5.07	103.02	109.10
1	N	983	A	O4'-C1'-N9	5.07	112.25	108.20
1	N	1338	G	C5-N7-C8	5.07	106.83	104.30
1	N	721	G	C4-C5-N7	5.06	112.83	110.80
1	N	947	G	P-O3'-C3'	5.06	125.78	119.70
1	N	1215	G	N9-C4-C5	-5.06	103.38	105.40
1	N	1307	U	OP1-P-OP2	-5.06	112.00	119.60
1	N	352	C	C6-N1-C2	-5.06	118.28	120.30
1	N	530	G	C4-C5-C6	5.06	121.84	118.80
1	N	790	A	C5-C6-N6	-5.06	119.65	123.70
1	N	907	A	O4'-C1'-N9	5.06	112.25	108.20
1	N	1139	G	C4-C5-N7	5.06	112.83	110.80
1	N	1164	G	C4'-C3'-C2'	-5.06	97.54	102.60
1	N	1170	A	C6-N1-C2	5.06	121.64	118.60
1	N	1457	G	O5'-P-OP2	-5.06	101.14	105.70
1	N	955	U	C4'-C3'-C2'	-5.06	97.54	102.60
1	N	1201	A	C5'-C4'-O4'	5.06	115.17	109.10
1	N	1371	G	C5'-C4'-O4'	5.06	115.17	109.10
1	N	185	U	C6-N1-C1'	-5.06	114.12	121.20
1	N	277	C	C6-N1-C2	-5.06	118.28	120.30
1	N	282	A	C4-N9-C1'	5.06	135.41	126.30
1	N	324	G	C5-C6-O6	-5.06	125.56	128.60
1	N	693	G	C4-N9-C1'	-5.06	119.92	126.50
1	N	814	A	C5-C6-N6	-5.06	119.65	123.70
1	N	1210	C	N3-C4-N4	5.06	121.54	118.00
1	N	1284	C	P-O5'-C5'	5.06	128.99	120.90
1	N	47	C	N1-C2-O2	-5.06	115.86	118.90
1	N	332	G	N3-C4-N9	-5.06	122.97	126.00
1	N	941	G	C4-C5-C6	5.06	121.83	118.80
1	N	1099	G	N3-C4-N9	-5.06	122.97	126.00
1	N	1154	G	N3-C4-N9	-5.06	122.97	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1317	C	C2-N1-C1'	5.06	124.36	118.80
1	N	1468	A	P-O3'-C3'	5.06	125.77	119.70
1	N	143	A	C5-C6-N6	-5.06	119.66	123.70
1	N	598	U	N3-C4-O4	5.06	122.94	119.40
1	N	1041	G	C5-C6-O6	-5.06	125.57	128.60
1	N	1348	U	N1-C2-N3	5.06	117.93	114.90
1	N	212	G	C5'-C4'-C3'	5.05	124.09	116.00
1	N	259	G	N9-C4-C5	-5.05	103.38	105.40
1	N	348	G	C4-C5-C6	5.05	121.83	118.80
1	N	536	C	C5'-C4'-O4'	-5.05	103.03	109.10
1	N	781	A	C8-N9-C4	5.05	107.82	105.80
1	N	132	C	N3-C4-N4	5.05	121.54	118.00
1	N	192	A	N3-C4-C5	-5.05	123.26	126.80
1	N	258	G	P-O5'-C5'	5.05	128.99	120.90
1	N	554	A	P-O3'-C3'	-5.05	113.64	119.70
1	N	1515	G	O4'-C4'-C3'	-5.05	98.95	104.00
1	N	444	G	C4-C5-N7	5.05	112.82	110.80
1	N	934	C	N3-C2-O2	5.05	125.44	121.90
1	N	1264	U	N3-C4-O4	-5.05	115.86	119.40
1	N	1268	G	C3'-C2'-C1'	5.05	105.54	101.50
1	N	1313	U	N3-C4-C5	-5.05	111.57	114.60
1	N	276	G	C3'-C2'-C1'	-5.05	97.46	101.50
1	N	279	A	C4-N9-C1'	5.05	135.39	126.30
1	N	324	G	C6-C5-N7	-5.05	127.37	130.40
1	N	491	G	C5-C6-N1	-5.05	108.97	111.50
1	N	795	C	C3'-C2'-C1'	-5.05	97.46	101.50
1	N	954	G	P-O5'-C5'	5.05	128.98	120.90
1	N	1131	G	C5-C6-N1	-5.05	108.97	111.50
1	N	1253	G	C4-C5-N7	5.05	112.82	110.80
1	N	1371	G	C5'-C4'-C3'	-5.05	107.92	116.00
1	N	691	G	O4'-C1'-N9	5.05	112.24	108.20
1	N	694	A	O3'-P-O5'	-5.05	94.41	104.00
1	N	49	U	N3-C4-O4	5.05	122.93	119.40
1	N	111	G	O4'-C1'-N9	5.05	112.24	108.20
1	N	412	A	N1-C2-N3	5.05	131.82	129.30
1	N	637	C	P-O5'-C5'	5.05	128.97	120.90
1	N	1058	G	N1-C6-O6	5.05	122.93	119.90
1	N	1238	A	OP1-P-OP2	-5.05	112.03	119.60
1	N	1244	G	OP1-P-O3'	5.05	116.30	105.20
1	N	173	U	N3-C4-C5	-5.04	111.57	114.60
1	N	249	U	N3-C4-C5	-5.04	111.57	114.60
1	N	461	A	C4-C5-C6	5.04	119.52	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	711	G	C5-C6-O6	-5.04	125.57	128.60
1	N	1224	U	N1-C2-N3	-5.04	111.87	114.90
1	N	273	U	O5'-C5'-C4'	-5.04	102.12	111.70
1	N	445	G	C6-C5-N7	-5.04	127.37	130.40
1	N	460	A	O5'-C5'-C4'	-5.04	102.12	111.70
1	N	492	C	C5'-C4'-O4'	5.04	115.15	109.10
1	N	543	U	C3'-C2'-C1'	5.04	105.53	101.50
1	N	812	G	O4'-C1'-N9	5.04	112.23	108.20
1	N	1016	A	O4'-C1'-N9	5.04	112.23	108.20
1	N	1070	U	O4'-C1'-N1	5.04	112.23	108.20
1	N	1114	C	C5'-C4'-O4'	5.04	115.15	109.10
1	N	1157	A	N1-C2-N3	5.04	131.82	129.30
1	N	1475	G	C2-N3-C4	5.04	114.42	111.90
1	N	1532	U	N3-C4-C5	-5.04	111.57	114.60
1	N	51	A	C1'-O4'-C4'	5.04	113.93	109.90
1	N	102	G	O3'-P-O5'	-5.04	94.42	104.00
1	N	518	C	N3-C4-C5	-5.04	119.88	121.90
1	N	546	A	C5-C6-N6	-5.04	119.67	123.70
1	N	1015	G	C5'-C4'-C3'	5.04	124.07	116.00
1	N	1438	G	C6-N1-C2	5.04	128.12	125.10
1	N	180	U	C2-N3-C4	-5.04	123.98	127.00
1	N	217	C	C6-N1-C1'	-5.04	114.75	120.80
1	N	1033	G	N3-C2-N2	5.04	123.43	119.90
1	N	268	U	O4'-C1'-N1	5.04	112.23	108.20
1	N	861	G	N1-C2-N2	-5.04	111.67	116.20
1	N	1003	G	C1'-O4'-C4'	5.04	113.93	109.90
1	N	19	A	N3-C4-C5	-5.04	123.28	126.80
1	N	66	A	P-O3'-C3'	5.04	125.74	119.70
1	N	109	A	N3-C4-N9	5.04	131.43	127.40
1	N	382	A	C5-N7-C8	-5.04	101.38	103.90
1	N	779	C	C5-C4-N4	-5.04	116.67	120.20
1	N	915	A	C5-N7-C8	5.04	106.42	103.90
1	N	1126	U	O4'-C1'-N1	5.04	112.23	108.20
1	N	1272	G	C5-C6-O6	-5.04	125.58	128.60
1	N	1305	G	C4-N9-C1'	-5.04	119.95	126.50
1	N	448	A	C4'-C3'-C2'	-5.03	97.57	102.60
1	N	678	U	OP1-P-OP2	-5.03	112.05	119.60
1	N	725	G	C6-N1-C2	5.03	128.12	125.10
1	N	750	C	O5'-C5'-C4'	-5.03	102.14	111.70
1	N	847	G	O4'-C1'-N9	5.03	112.23	108.20
1	N	943	U	C4'-C3'-C2'	5.03	107.63	102.60
1	N	1054	C	C6-N1-C2	-5.03	118.29	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1414	U	C2-N1-C1'	-5.03	111.66	117.70
1	N	1528	U	C2-N1-C1'	5.03	123.74	117.70
1	N	364	A	C8-N9-C1'	5.03	136.76	127.70
1	N	604	G	C5-N7-C8	-5.03	101.78	104.30
1	N	1436	U	C4'-C3'-C2'	5.03	107.63	102.60
1	N	172	A	O4'-C1'-N9	-5.03	104.18	108.20
1	N	218	U	C2-N3-C4	5.03	130.02	127.00
1	N	274	A	N3-C4-C5	-5.03	123.28	126.80
1	N	521	G	C6-C5-N7	-5.03	127.38	130.40
1	N	527	G	C5-C6-O6	-5.03	125.58	128.60
1	N	529	G	N3-C4-N9	5.03	129.02	126.00
1	N	558	G	C5'-C4'-C3'	5.03	124.05	116.00
1	N	998	C	N1-C2-N3	-5.03	115.68	119.20
1	N	1079	G	N3-C4-N9	5.03	129.02	126.00
1	N	1214	C	N3-C2-O2	5.03	125.42	121.90
1	N	1391	U	C2-N3-C4	-5.03	123.98	127.00
1	N	376	G	C2-N3-C4	-5.03	109.39	111.90
1	N	438	U	O4'-C1'-C2'	-5.03	100.77	105.80
1	N	778	G	C5'-C4'-O4'	5.03	115.13	109.10
1	N	807	A	C4'-C3'-C2'	-5.03	97.57	102.60
1	N	839	C	C1'-O4'-C4'	-5.03	105.88	109.90
1	N	1279	G	N3-C4-N9	5.03	129.02	126.00
1	N	1512	U	N1-C2-N3	-5.03	111.88	114.90
1	N	594	U	OP1-P-OP2	-5.03	112.06	119.60
1	N	745	G	N1-C2-N3	-5.03	120.88	123.90
1	N	1115	U	O4'-C1'-N1	5.03	112.22	108.20
1	N	1266	G	C2-N3-C4	-5.03	109.39	111.90
1	N	1281	C	C2-N1-C1'	5.03	124.33	118.80
1	N	1401	G	N9-C4-C5	-5.03	103.39	105.40
1	N	140	U	C6-N1-C2	-5.03	117.98	121.00
1	N	201	G	O4'-C1'-N9	5.03	112.22	108.20
1	N	310	G	N3-C2-N2	5.03	123.42	119.90
1	N	405	U	O4'-C1'-N1	5.03	112.22	108.20
1	N	983	A	C8-N9-C4	-5.03	103.79	105.80
1	N	1139	G	N3-C4-N9	-5.03	122.98	126.00
1	N	1161	C	N3-C4-C5	-5.03	119.89	121.90
1	N	50	A	N9-C1'-C2'	5.02	120.53	114.00
1	N	178	C	C6-N1-C1'	-5.02	114.77	120.80
1	N	1382	C	C6-N1-C2	-5.02	118.29	120.30
1	N	639	G	C5-C6-N1	-5.02	108.99	111.50
1	N	855	U	C5'-C4'-C3'	-5.02	107.96	116.00
1	N	1029	U	C3'-C2'-C1'	5.02	105.52	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1206	G	C6-N1-C2	5.02	128.11	125.10
1	N	155	A	C6-C5-N7	-5.02	128.79	132.30
1	N	568	G	C6-C5-N7	-5.02	127.39	130.40
1	N	627	G	C6-C5-N7	-5.02	127.39	130.40
1	N	1382	C	N1-C1'-C2'	5.02	120.53	114.00
1	N	1427	C	C4'-C3'-C2'	-5.02	97.58	102.60
1	N	1462	C	N3-C4-N4	5.02	121.51	118.00
1	N	210	C	C5'-C4'-O4'	5.02	115.12	109.10
1	N	281	G	C3'-C2'-C1'	5.02	105.51	101.50
1	N	1087	G	OP1-P-OP2	-5.02	112.07	119.60
1	N	1267	C	N3-C4-C5	-5.02	119.89	121.90
1	N	1497	G	C2-N3-C4	-5.02	109.39	111.90
1	N	204	G	N1-C6-O6	5.02	122.91	119.90
1	N	878	A	C6-C5-N7	-5.02	128.79	132.30
1	N	1255	G	O4'-C4'-C3'	-5.02	98.98	104.00
1	N	1519	A	C6-C5-N7	-5.02	128.79	132.30
1	N	108	G	C5-C6-N1	-5.01	108.99	111.50
1	N	138	G	C8-N9-C4	5.01	108.41	106.40
1	N	296	U	O4'-C1'-C2'	-5.01	100.78	105.80
1	N	506	G	C6-N1-C2	5.01	128.11	125.10
1	N	860	A	C5-C6-N1	-5.01	115.19	117.70
1	N	1146	A	C4-C5-C6	5.01	119.51	117.00
1	N	1336	C	C5-C4-N4	-5.01	116.69	120.20
1	N	1426	G	C4'-C3'-C2'	-5.01	97.59	102.60
1	N	592	G	C6-C5-N7	-5.01	127.39	130.40
1	N	672	U	O4'-C1'-N1	5.01	112.21	108.20
1	N	845	A	OP1-P-OP2	-5.01	112.08	119.60
1	N	869	G	C4-C5-C6	5.01	121.81	118.80
1	N	1050	G	C2-N3-C4	-5.01	109.39	111.90
1	N	1063	C	C5-C4-N4	-5.01	116.69	120.20
1	N	1312	G	P-O5'-C5'	-5.01	112.88	120.90
1	N	151	A	P-O5'-C5'	-5.01	112.88	120.90
1	N	664	G	C4-C5-N7	-5.01	108.80	110.80
1	N	727	G	N1-C2-N2	-5.01	111.69	116.20
1	N	1275	A	C5'-C4'-C3'	-5.01	107.98	116.00
1	N	1334	G	C6-C5-N7	-5.01	127.39	130.40
1	N	1371	G	N7-C8-N9	-5.01	110.59	113.10
1	N	19	A	C8-N9-C4	-5.01	103.80	105.80
1	N	134	G	C5'-C4'-O4'	5.01	115.11	109.10
1	N	384	G	O3'-P-O5'	-5.01	94.48	104.00
1	N	387	U	C1'-O4'-C4'	5.01	113.91	109.90
1	N	406	G	N3-C2-N2	5.01	123.41	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	416	G	OP1-P-O3'	5.01	116.22	105.20
1	N	491	G	C4-C5-C6	5.01	121.81	118.80
1	N	719	C	P-O3'-C3'	-5.01	113.69	119.70
1	N	997	U	OP1-P-OP2	-5.01	112.08	119.60
1	N	1306	A	C5'-C4'-C3'	5.01	124.02	116.00
1	N	869	G	P-O5'-C5'	5.01	128.91	120.90
1	N	86	G	N3-C4-N9	5.01	129.00	126.00
1	N	262	A	OP1-P-O3'	5.01	116.22	105.20
1	N	403	C	N3-C2-O2	5.01	125.41	121.90
1	N	462	G	P-O5'-C5'	5.01	128.91	120.90
1	N	464	U	P-O3'-C3'	5.01	125.71	119.70
1	N	635	A	N3-C4-C5	-5.01	123.30	126.80
1	N	667	G	C8-N9-C4	-5.01	104.40	106.40
1	N	845	A	O4'-C1'-N9	5.01	112.21	108.20
1	N	951	G	C4-C5-C6	5.01	121.80	118.80
1	N	960	U	C5-C4-O4	-5.01	122.90	125.90
1	N	1137	C	C2-N1-C1'	-5.01	113.29	118.80
1	N	336	A	OP2-P-O3'	5.00	116.21	105.20
1	N	29	U	C6-N1-C2	5.00	124.00	121.00
1	N	80	A	N9-C4-C5	5.00	107.80	105.80
1	N	417	G	C6-C5-N7	-5.00	127.40	130.40
1	N	1046	A	N3-C4-C5	-5.00	123.30	126.80
1	N	1236	A	N3-C4-C5	-5.00	123.30	126.80
1	N	1454	G	O3'-P-O5'	5.00	113.50	104.00
1	N	105	G	P-O3'-C3'	5.00	125.70	119.70
1	N	495	A	C6-C5-N7	-5.00	128.80	132.30
1	N	703	G	N9-C4-C5	-5.00	103.40	105.40
1	N	1054	C	O4'-C1'-N1	5.00	112.20	108.20
1	N	1170	A	OP1-P-O3'	5.00	116.20	105.20
1	N	1208	C	N3-C4-N4	5.00	121.50	118.00

There are no chirality outliers.

All (937) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	N	100	G	Sidechain
1	N	1000	A	Sidechain
1	N	1003	G	Sidechain
1	N	1004	A	Sidechain
1	N	1005	A	Sidechain
1	N	1006	G	Sidechain
1	N	1007	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1008	U	Sidechain
1	N	1010	U	Sidechain
1	N	1015	G	Sidechain
1	N	1019	A	Sidechain
1	N	102	G	Sidechain
1	N	1020	G	Sidechain
1	N	1022	A	Sidechain
1	N	1024	G	Sidechain
1	N	1025	U	Sidechain
1	N	1026	G	Sidechain
1	N	1028	C	Sidechain
1	N	103	U	Sidechain
1	N	1031	C	Sidechain
1	N	1033	G	Sidechain
1	N	1034	G	Sidechain
1	N	1036	A	Sidechain
1	N	1039	G	Sidechain
1	N	1041	G	Sidechain
1	N	1043	G	Sidechain
1	N	1045	C	Sidechain
1	N	1047	G	Sidechain
1	N	1048	G	Sidechain
1	N	1049	U	Sidechain
1	N	105	G	Sidechain
1	N	1051	C	Sidechain
1	N	1052	U	Sidechain
1	N	1054	C	Sidechain
1	N	1055	A	Sidechain
1	N	1058	G	Sidechain
1	N	1060	U	Sidechain
1	N	1062	U	Sidechain
1	N	1064	G	Sidechain
1	N	1065	U	Sidechain
1	N	1066	C	Sidechain
1	N	1067	A	Sidechain
1	N	1068	G	Sidechain
1	N	107	G	Sidechain
1	N	1071	C	Sidechain
1	N	1072	G	Sidechain
1	N	1073	U	Sidechain
1	N	1074	G	Sidechain
1	N	1076	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1077	G	Sidechain
1	N	1078	U	Sidechain
1	N	1079	G	Sidechain
1	N	1080	A	Sidechain
1	N	1083	U	Sidechain
1	N	1084	G	Sidechain
1	N	1085	U	Sidechain
1	N	1087	G	Sidechain
1	N	109	A	Sidechain
1	N	1093	A	Sidechain
1	N	1094	G	Sidechain
1	N	1096	C	Sidechain
1	N	1098	C	Sidechain
1	N	1099	G	Sidechain
1	N	11	G	Sidechain
1	N	110	C	Sidechain
1	N	1101	A	Sidechain
1	N	1102	A	Sidechain
1	N	1103	C	Sidechain
1	N	1104	G	Sidechain
1	N	1105	A	Sidechain
1	N	1108	G	Sidechain
1	N	111	G	Sidechain
1	N	1112	C	Sidechain
1	N	1115	U	Sidechain
1	N	1116	U	Sidechain
1	N	1117	A	Sidechain
1	N	112	G	Sidechain
1	N	1120	C	Sidechain
1	N	1121	U	Sidechain
1	N	1123	U	Sidechain
1	N	1124	G	Sidechain
1	N	1126	U	Sidechain
1	N	1127	G	Sidechain
1	N	113	G	Sidechain
1	N	1130	A	Sidechain
1	N	1131	G	Sidechain
1	N	1132	C	Sidechain
1	N	1133	G	Sidechain
1	N	1134	G	Sidechain
1	N	1136	C	Sidechain
1	N	1139	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1141	C	Sidechain
1	N	1143	G	Sidechain
1	N	1144	G	Sidechain
1	N	1145	A	Sidechain
1	N	1148	U	Sidechain
1	N	1149	C	Sidechain
1	N	115	G	Sidechain
1	N	1150	A	Sidechain
1	N	1152	A	Sidechain
1	N	1155	A	Sidechain
1	N	1156	G	Sidechain
1	N	1157	A	Sidechain
1	N	1159	U	Sidechain
1	N	116	A	Sidechain
1	N	1160	G	Sidechain
1	N	1162	C	Sidechain
1	N	1163	A	Sidechain
1	N	1164	G	Sidechain
1	N	1165	U	Sidechain
1	N	1166	G	Sidechain
1	N	1167	A	Sidechain
1	N	1168	U	Sidechain
1	N	1169	A	Sidechain
1	N	1170	A	Sidechain
1	N	1171	A	Sidechain
1	N	1172	C	Sidechain
1	N	1174	G	Sidechain
1	N	1175	G	Sidechain
1	N	1176	A	Sidechain
1	N	1177	G	Sidechain
1	N	1178	G	Sidechain
1	N	1179	A	Sidechain
1	N	1180	A	Sidechain
1	N	1181	G	Sidechain
1	N	1182	G	Sidechain
1	N	1184	G	Sidechain
1	N	1185	G	Sidechain
1	N	1186	G	Sidechain
1	N	1187	G	Sidechain
1	N	1188	A	Sidechain
1	N	119	A	Sidechain
1	N	1190	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1191	A	Sidechain
1	N	1193	G	Sidechain
1	N	1195	C	Sidechain
1	N	1197	A	Sidechain
1	N	1198	G	Sidechain
1	N	12	U	Sidechain
1	N	120	A	Sidechain
1	N	1200	C	Sidechain
1	N	1201	A	Sidechain
1	N	1202	U	Sidechain
1	N	1204	A	Sidechain
1	N	1205	U	Sidechain
1	N	1206	G	Sidechain
1	N	1209	C	Sidechain
1	N	1210	C	Sidechain
1	N	1213	A	Sidechain
1	N	1214	C	Sidechain
1	N	1216	A	Sidechain
1	N	1218	C	Sidechain
1	N	1222	G	Sidechain
1	N	1223	C	Sidechain
1	N	1224	U	Sidechain
1	N	1225	A	Sidechain
1	N	1226	C	Sidechain
1	N	1227	A	Sidechain
1	N	1228	C	Sidechain
1	N	1231	G	Sidechain
1	N	1232	U	Sidechain
1	N	1234	C	Sidechain
1	N	1235	U	Sidechain
1	N	1239	A	Sidechain
1	N	124	C	Sidechain
1	N	1240	U	Sidechain
1	N	1241	G	Sidechain
1	N	1242	G	Sidechain
1	N	1245	C	Sidechain
1	N	125	U	Sidechain
1	N	1250	A	Sidechain
1	N	1251	A	Sidechain
1	N	1254	A	Sidechain
1	N	1255	G	Sidechain
1	N	1257	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1258	G	Sidechain
1	N	126	G	Sidechain
1	N	1261	A	Sidechain
1	N	1262	C	Sidechain
1	N	1263	C	Sidechain
1	N	1264	U	Sidechain
1	N	1265	C	Sidechain
1	N	1266	G	Sidechain
1	N	1267	C	Sidechain
1	N	1268	G	Sidechain
1	N	127	G	Sidechain
1	N	1270	G	Sidechain
1	N	1271	A	Sidechain
1	N	1273	C	Sidechain
1	N	1274	A	Sidechain
1	N	1275	A	Sidechain
1	N	1276	G	Sidechain
1	N	1277	C	Sidechain
1	N	1281	C	Sidechain
1	N	1282	C	Sidechain
1	N	1283	U	Sidechain
1	N	1285	A	Sidechain
1	N	1286	U	Sidechain
1	N	1287	A	Sidechain
1	N	1288	A	Sidechain
1	N	1289	A	Sidechain
1	N	1292	G	Sidechain
1	N	1293	C	Sidechain
1	N	1296	C	Sidechain
1	N	1297	G	Sidechain
1	N	1298	U	Sidechain
1	N	1299	A	Sidechain
1	N	130	A	Sidechain
1	N	1302	C	Sidechain
1	N	1304	G	Sidechain
1	N	1305	G	Sidechain
1	N	1306	A	Sidechain
1	N	1307	U	Sidechain
1	N	1308	U	Sidechain
1	N	1310	G	Sidechain
1	N	1314	C	Sidechain
1	N	1315	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1316	G	Sidechain
1	N	1317	C	Sidechain
1	N	1318	A	Sidechain
1	N	1319	A	Sidechain
1	N	1322	C	Sidechain
1	N	1324	A	Sidechain
1	N	1329	A	Sidechain
1	N	133	U	Sidechain
1	N	1331	G	Sidechain
1	N	1332	A	Sidechain
1	N	1334	G	Sidechain
1	N	1335	U	Sidechain
1	N	1337	G	Sidechain
1	N	1338	G	Sidechain
1	N	1339	A	Sidechain
1	N	134	G	Sidechain
1	N	1344	C	Sidechain
1	N	1345	U	Sidechain
1	N	1346	A	Sidechain
1	N	1348	U	Sidechain
1	N	1349	A	Sidechain
1	N	1350	A	Sidechain
1	N	1356	G	Sidechain
1	N	1357	A	Sidechain
1	N	1358	U	Sidechain
1	N	1359	C	Sidechain
1	N	1360	A	Sidechain
1	N	1361	G	Sidechain
1	N	1362	A	Sidechain
1	N	1364	U	Sidechain
1	N	1365	G	Sidechain
1	N	1366	C	Sidechain
1	N	1367	C	Sidechain
1	N	137	U	Sidechain
1	N	1370	G	Sidechain
1	N	1373	G	Sidechain
1	N	1375	A	Sidechain
1	N	1376	U	Sidechain
1	N	1378	C	Sidechain
1	N	1379	G	Sidechain
1	N	138	G	Sidechain
1	N	1381	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1382	C	Sidechain
1	N	1383	C	Sidechain
1	N	1385	G	Sidechain
1	N	139	A	Sidechain
1	N	1391	U	Sidechain
1	N	1392	G	Sidechain
1	N	1395	C	Sidechain
1	N	1396	A	Sidechain
1	N	14	U	Sidechain
1	N	140	U	Sidechain
1	N	1401	G	Sidechain
1	N	1404	C	Sidechain
1	N	1405	G	Sidechain
1	N	1406	U	Sidechain
1	N	1407	C	Sidechain
1	N	1409	C	Sidechain
1	N	141	G	Sidechain
1	N	1410	A	Sidechain
1	N	1411	C	Sidechain
1	N	1413	A	Sidechain
1	N	1414	U	Sidechain
1	N	1417	G	Sidechain
1	N	1419	G	Sidechain
1	N	142	G	Sidechain
1	N	1420	U	Sidechain
1	N	1421	G	Sidechain
1	N	1422	G	Sidechain
1	N	1423	G	Sidechain
1	N	1425	U	Sidechain
1	N	143	A	Sidechain
1	N	1430	A	Sidechain
1	N	1431	A	Sidechain
1	N	1432	G	Sidechain
1	N	1433	A	Sidechain
1	N	1434	A	Sidechain
1	N	1435	G	Sidechain
1	N	1437	A	Sidechain
1	N	1438	G	Sidechain
1	N	1439	G	Sidechain
1	N	1440	U	Sidechain
1	N	1441	A	Sidechain
1	N	1447	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1448	C	Sidechain
1	N	145	G	Sidechain
1	N	1450	U	Sidechain
1	N	1451	U	Sidechain
1	N	1452	C	Sidechain
1	N	1453	G	Sidechain
1	N	1454	G	Sidechain
1	N	1456	A	Sidechain
1	N	1457	G	Sidechain
1	N	1461	G	Sidechain
1	N	1463	U	Sidechain
1	N	1464	U	Sidechain
1	N	1468	A	Sidechain
1	N	1469	C	Sidechain
1	N	147	G	Sidechain
1	N	1473	G	Sidechain
1	N	1474	U	Sidechain
1	N	1476	A	Sidechain
1	N	1478	U	Sidechain
1	N	148	G	Sidechain
1	N	1481	U	Sidechain
1	N	1485	U	Sidechain
1	N	1488	G	Sidechain
1	N	1489	G	Sidechain
1	N	1490	U	Sidechain
1	N	1494	G	Sidechain
1	N	1496	C	Sidechain
1	N	1497	G	Sidechain
1	N	1498	U	Sidechain
1	N	1499	A	Sidechain
1	N	150	U	Sidechain
1	N	1500	A	Sidechain
1	N	1502	A	Sidechain
1	N	1503	A	Sidechain
1	N	1504	G	Sidechain
1	N	1505	G	Sidechain
1	N	1508	A	Sidechain
1	N	151	A	Sidechain
1	N	1510	C	Sidechain
1	N	1512	U	Sidechain
1	N	1514	G	Sidechain
1	N	1515	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1516	G	Sidechain
1	N	1518	A	Sidechain
1	N	152	A	Sidechain
1	N	1523	G	Sidechain
1	N	1524	C	Sidechain
1	N	1525	G	Sidechain
1	N	1527	U	Sidechain
1	N	1528	U	Sidechain
1	N	1529	G	Sidechain
1	N	1530	G	Sidechain
1	N	1531	A	Sidechain
1	N	1532	U	Sidechain
1	N	1533	C	Sidechain
1	N	1534	A	Sidechain
1	N	155	A	Sidechain
1	N	157	U	Sidechain
1	N	16	A	Sidechain
1	N	160	A	Sidechain
1	N	161	A	Sidechain
1	N	164	G	Sidechain
1	N	166	U	Sidechain
1	N	169	C	Sidechain
1	N	17	U	Sidechain
1	N	170	U	Sidechain
1	N	171	A	Sidechain
1	N	174	A	Sidechain
1	N	175	C	Sidechain
1	N	176	C	Sidechain
1	N	177	G	Sidechain
1	N	178	C	Sidechain
1	N	179	A	Sidechain
1	N	184	G	Sidechain
1	N	185	U	Sidechain
1	N	187	G	Sidechain
1	N	190	A	Sidechain
1	N	191	G	Sidechain
1	N	192	A	Sidechain
1	N	193	C	Sidechain
1	N	194	C	Sidechain
1	N	195	A	Sidechain
1	N	196	A	Sidechain
1	N	197	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	199	A	Sidechain
1	N	200	G	Sidechain
1	N	201	G	Sidechain
1	N	202	G	Sidechain
1	N	203	G	Sidechain
1	N	204	G	Sidechain
1	N	207	C	Sidechain
1	N	208	U	Sidechain
1	N	21	G	Sidechain
1	N	210	C	Sidechain
1	N	211	G	Sidechain
1	N	212	G	Sidechain
1	N	213	G	Sidechain
1	N	215	C	Sidechain
1	N	216	U	Sidechain
1	N	217	C	Sidechain
1	N	218	U	Sidechain
1	N	220	G	Sidechain
1	N	222	C	Sidechain
1	N	224	U	Sidechain
1	N	227	G	Sidechain
1	N	228	A	Sidechain
1	N	230	G	Sidechain
1	N	232	G	Sidechain
1	N	233	C	Sidechain
1	N	236	A	Sidechain
1	N	237	G	Sidechain
1	N	239	U	Sidechain
1	N	24	U	Sidechain
1	N	242	G	Sidechain
1	N	243	A	Sidechain
1	N	244	U	Sidechain
1	N	245	U	Sidechain
1	N	246	A	Sidechain
1	N	247	G	Sidechain
1	N	248	C	Sidechain
1	N	249	U	Sidechain
1	N	25	C	Sidechain
1	N	251	G	Sidechain
1	N	252	U	Sidechain
1	N	254	G	Sidechain
1	N	255	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	259	G	Sidechain
1	N	26	A	Sidechain
1	N	260	G	Sidechain
1	N	262	A	Sidechain
1	N	265	G	Sidechain
1	N	267	C	Sidechain
1	N	268	U	Sidechain
1	N	269	C	Sidechain
1	N	27	G	Sidechain
1	N	272	C	Sidechain
1	N	273	U	Sidechain
1	N	274	A	Sidechain
1	N	276	G	Sidechain
1	N	279	A	Sidechain
1	N	28	A	Sidechain
1	N	280	C	Sidechain
1	N	282	A	Sidechain
1	N	283	U	Sidechain
1	N	287	U	Sidechain
1	N	29	U	Sidechain
1	N	292	G	Sidechain
1	N	293	G	Sidechain
1	N	296	U	Sidechain
1	N	297	G	Sidechain
1	N	299	G	Sidechain
1	N	30	U	Sidechain
1	N	300	A	Sidechain
1	N	302	G	Sidechain
1	N	303	A	Sidechain
1	N	304	U	Sidechain
1	N	305	G	Sidechain
1	N	309	A	Sidechain
1	N	31	G	Sidechain
1	N	310	G	Sidechain
1	N	313	A	Sidechain
1	N	314	C	Sidechain
1	N	315	A	Sidechain
1	N	317	U	Sidechain
1	N	318	G	Sidechain
1	N	319	G	Sidechain
1	N	320	A	Sidechain
1	N	321	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	322	C	Sidechain
1	N	323	U	Sidechain
1	N	324	G	Sidechain
1	N	326	G	Sidechain
1	N	33	A	Sidechain
1	N	330	C	Sidechain
1	N	331	G	Sidechain
1	N	332	G	Sidechain
1	N	334	C	Sidechain
1	N	337	G	Sidechain
1	N	338	A	Sidechain
1	N	339	C	Sidechain
1	N	340	U	Sidechain
1	N	341	C	Sidechain
1	N	343	U	Sidechain
1	N	345	C	Sidechain
1	N	347	G	Sidechain
1	N	348	G	Sidechain
1	N	349	A	Sidechain
1	N	350	G	Sidechain
1	N	351	G	Sidechain
1	N	352	C	Sidechain
1	N	353	A	Sidechain
1	N	354	G	Sidechain
1	N	355	C	Sidechain
1	N	356	A	Sidechain
1	N	359	G	Sidechain
1	N	360	G	Sidechain
1	N	361	G	Sidechain
1	N	362	G	Sidechain
1	N	363	A	Sidechain
1	N	364	A	Sidechain
1	N	367	U	Sidechain
1	N	369	G	Sidechain
1	N	371	A	Sidechain
1	N	372	C	Sidechain
1	N	374	A	Sidechain
1	N	375	U	Sidechain
1	N	377	G	Sidechain
1	N	378	G	Sidechain
1	N	38	G	Sidechain
1	N	380	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	381	C	Sidechain
1	N	382	A	Sidechain
1	N	383	A	Sidechain
1	N	387	U	Sidechain
1	N	39	G	Sidechain
1	N	390	U	Sidechain
1	N	391	G	Sidechain
1	N	392	C	Sidechain
1	N	393	A	Sidechain
1	N	396	C	Sidechain
1	N	4	U	Sidechain
1	N	40	C	Sidechain
1	N	400	C	Sidechain
1	N	401	C	Sidechain
1	N	402	G	Sidechain
1	N	403	C	Sidechain
1	N	405	U	Sidechain
1	N	409	U	Sidechain
1	N	410	G	Sidechain
1	N	411	A	Sidechain
1	N	413	G	Sidechain
1	N	414	A	Sidechain
1	N	416	G	Sidechain
1	N	417	G	Sidechain
1	N	419	C	Sidechain
1	N	421	U	Sidechain
1	N	422	C	Sidechain
1	N	423	G	Sidechain
1	N	424	G	Sidechain
1	N	425	G	Sidechain
1	N	426	U	Sidechain
1	N	427	U	Sidechain
1	N	428	G	Sidechain
1	N	430	A	Sidechain
1	N	432	A	Sidechain
1	N	433	G	Sidechain
1	N	434	U	Sidechain
1	N	436	C	Sidechain
1	N	437	U	Sidechain
1	N	44	A	Sidechain
1	N	440	C	Sidechain
1	N	441	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	442	G	Sidechain
1	N	445	G	Sidechain
1	N	446	G	Sidechain
1	N	447	G	Sidechain
1	N	449	G	Sidechain
1	N	45	G	Sidechain
1	N	450	G	Sidechain
1	N	452	A	Sidechain
1	N	454	G	Sidechain
1	N	455	G	Sidechain
1	N	456	A	Sidechain
1	N	457	G	Sidechain
1	N	46	G	Sidechain
1	N	461	A	Sidechain
1	N	462	G	Sidechain
1	N	463	U	Sidechain
1	N	464	U	Sidechain
1	N	465	A	Sidechain
1	N	466	A	Sidechain
1	N	472	U	Sidechain
1	N	473	U	Sidechain
1	N	475	C	Sidechain
1	N	476	U	Sidechain
1	N	479	U	Sidechain
1	N	480	U	Sidechain
1	N	482	A	Sidechain
1	N	483	C	Sidechain
1	N	484	G	Sidechain
1	N	486	U	Sidechain
1	N	488	C	Sidechain
1	N	49	U	Sidechain
1	N	496	A	Sidechain
1	N	497	G	Sidechain
1	N	498	A	Sidechain
1	N	499	A	Sidechain
1	N	50	A	Sidechain
1	N	500	G	Sidechain
1	N	501	C	Sidechain
1	N	502	A	Sidechain
1	N	505	G	Sidechain
1	N	506	G	Sidechain
1	N	508	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	510	A	Sidechain
1	N	512	U	Sidechain
1	N	513	C	Sidechain
1	N	514	C	Sidechain
1	N	515	G	Sidechain
1	N	52	C	Sidechain
1	N	521	G	Sidechain
1	N	524	G	Sidechain
1	N	525	C	Sidechain
1	N	526	C	Sidechain
1	N	527	G	Sidechain
1	N	528	C	Sidechain
1	N	529	G	Sidechain
1	N	530	G	Sidechain
1	N	531	U	Sidechain
1	N	533	A	Sidechain
1	N	534	U	Sidechain
1	N	536	C	Sidechain
1	N	537	G	Sidechain
1	N	540	G	Sidechain
1	N	543	U	Sidechain
1	N	544	G	Sidechain
1	N	545	C	Sidechain
1	N	547	A	Sidechain
1	N	55	A	Sidechain
1	N	552	U	Sidechain
1	N	553	A	Sidechain
1	N	556	C	Sidechain
1	N	557	G	Sidechain
1	N	559	A	Sidechain
1	N	56	U	Sidechain
1	N	562	U	Sidechain
1	N	563	A	Sidechain
1	N	566	G	Sidechain
1	N	567	G	Sidechain
1	N	572	A	Sidechain
1	N	573	A	Sidechain
1	N	575	G	Sidechain
1	N	576	C	Sidechain
1	N	579	A	Sidechain
1	N	580	C	Sidechain
1	N	581	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	582	C	Sidechain
1	N	583	A	Sidechain
1	N	584	G	Sidechain
1	N	585	G	Sidechain
1	N	586	C	Sidechain
1	N	587	G	Sidechain
1	N	588	G	Sidechain
1	N	592	G	Sidechain
1	N	593	U	Sidechain
1	N	594	U	Sidechain
1	N	595	A	Sidechain
1	N	597	G	Sidechain
1	N	598	U	Sidechain
1	N	60	A	Sidechain
1	N	600	A	Sidechain
1	N	601	G	Sidechain
1	N	602	A	Sidechain
1	N	606	G	Sidechain
1	N	608	A	Sidechain
1	N	609	A	Sidechain
1	N	61	G	Sidechain
1	N	612	C	Sidechain
1	N	613	C	Sidechain
1	N	614	C	Sidechain
1	N	615	G	Sidechain
1	N	617	G	Sidechain
1	N	618	C	Sidechain
1	N	619	U	Sidechain
1	N	621	A	Sidechain
1	N	622	A	Sidechain
1	N	626	G	Sidechain
1	N	627	G	Sidechain
1	N	629	A	Sidechain
1	N	63	C	Sidechain
1	N	630	A	Sidechain
1	N	632	U	Sidechain
1	N	633	G	Sidechain
1	N	634	C	Sidechain
1	N	635	A	Sidechain
1	N	636	U	Sidechain
1	N	64	G	Sidechain
1	N	640	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	641	U	Sidechain
1	N	644	U	Sidechain
1	N	645	G	Sidechain
1	N	646	G	Sidechain
1	N	647	C	Sidechain
1	N	648	A	Sidechain
1	N	649	A	Sidechain
1	N	65	A	Sidechain
1	N	652	U	Sidechain
1	N	653	U	Sidechain
1	N	654	G	Sidechain
1	N	656	G	Sidechain
1	N	657	U	Sidechain
1	N	658	C	Sidechain
1	N	66	A	Sidechain
1	N	660	C	Sidechain
1	N	666	G	Sidechain
1	N	668	G	Sidechain
1	N	669	G	Sidechain
1	N	67	C	Sidechain
1	N	670	G	Sidechain
1	N	671	G	Sidechain
1	N	672	U	Sidechain
1	N	674	G	Sidechain
1	N	678	U	Sidechain
1	N	679	C	Sidechain
1	N	68	G	Sidechain
1	N	680	C	Sidechain
1	N	682	G	Sidechain
1	N	684	U	Sidechain
1	N	685	G	Sidechain
1	N	686	U	Sidechain
1	N	687	A	Sidechain
1	N	688	G	Sidechain
1	N	689	C	Sidechain
1	N	69	G	Sidechain
1	N	690	G	Sidechain
1	N	691	G	Sidechain
1	N	692	U	Sidechain
1	N	693	G	Sidechain
1	N	695	A	Sidechain
1	N	696	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	697	U	Sidechain
1	N	7	A	Sidechain
1	N	700	G	Sidechain
1	N	701	U	Sidechain
1	N	703	G	Sidechain
1	N	704	A	Sidechain
1	N	708	C	Sidechain
1	N	709	U	Sidechain
1	N	71	A	Sidechain
1	N	711	G	Sidechain
1	N	713	G	Sidechain
1	N	714	G	Sidechain
1	N	72	A	Sidechain
1	N	721	G	Sidechain
1	N	722	G	Sidechain
1	N	723	U	Sidechain
1	N	725	G	Sidechain
1	N	726	C	Sidechain
1	N	728	A	Sidechain
1	N	73	C	Sidechain
1	N	732	C	Sidechain
1	N	733	G	Sidechain
1	N	734	G	Sidechain
1	N	735	C	Sidechain
1	N	737	C	Sidechain
1	N	738	C	Sidechain
1	N	739	C	Sidechain
1	N	74	A	Sidechain
1	N	740	U	Sidechain
1	N	743	A	Sidechain
1	N	744	C	Sidechain
1	N	745	G	Sidechain
1	N	747	A	Sidechain
1	N	748	G	Sidechain
1	N	749	A	Sidechain
1	N	75	G	Sidechain
1	N	750	C	Sidechain
1	N	751	U	Sidechain
1	N	752	G	Sidechain
1	N	755	G	Sidechain
1	N	757	U	Sidechain
1	N	76	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	761	G	Sidechain
1	N	762	U	Sidechain
1	N	766	A	Sidechain
1	N	769	G	Sidechain
1	N	77	A	Sidechain
1	N	770	C	Sidechain
1	N	771	G	Sidechain
1	N	772	U	Sidechain
1	N	773	G	Sidechain
1	N	775	G	Sidechain
1	N	776	G	Sidechain
1	N	777	A	Sidechain
1	N	778	G	Sidechain
1	N	779	C	Sidechain
1	N	78	A	Sidechain
1	N	781	A	Sidechain
1	N	782	A	Sidechain
1	N	783	C	Sidechain
1	N	784	A	Sidechain
1	N	785	G	Sidechain
1	N	787	A	Sidechain
1	N	788	U	Sidechain
1	N	789	U	Sidechain
1	N	79	G	Sidechain
1	N	792	A	Sidechain
1	N	795	C	Sidechain
1	N	796	C	Sidechain
1	N	798	U	Sidechain
1	N	799	G	Sidechain
1	N	8	A	Sidechain
1	N	80	A	Sidechain
1	N	800	G	Sidechain
1	N	801	U	Sidechain
1	N	802	A	Sidechain
1	N	803	G	Sidechain
1	N	804	U	Sidechain
1	N	805	C	Sidechain
1	N	806	C	Sidechain
1	N	807	A	Sidechain
1	N	808	C	Sidechain
1	N	81	A	Sidechain
1	N	810	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	811	C	Sidechain
1	N	812	G	Sidechain
1	N	814	A	Sidechain
1	N	815	A	Sidechain
1	N	816	A	Sidechain
1	N	817	C	Sidechain
1	N	818	G	Sidechain
1	N	819	A	Sidechain
1	N	821	G	Sidechain
1	N	822	U	Sidechain
1	N	828	U	Sidechain
1	N	83	C	Sidechain
1	N	831	A	Sidechain
1	N	832	G	Sidechain
1	N	833	G	Sidechain
1	N	834	U	Sidechain
1	N	835	U	Sidechain
1	N	837	U	Sidechain
1	N	838	G	Sidechain
1	N	842	U	Sidechain
1	N	843	U	Sidechain
1	N	847	G	Sidechain
1	N	85	U	Sidechain
1	N	851	G	Sidechain
1	N	852	G	Sidechain
1	N	853	C	Sidechain
1	N	854	U	Sidechain
1	N	855	U	Sidechain
1	N	857	C	Sidechain
1	N	858	G	Sidechain
1	N	859	G	Sidechain
1	N	86	G	Sidechain
1	N	860	A	Sidechain
1	N	861	G	Sidechain
1	N	862	C	Sidechain
1	N	863	U	Sidechain
1	N	864	A	Sidechain
1	N	865	A	Sidechain
1	N	868	C	Sidechain
1	N	869	G	Sidechain
1	N	870	U	Sidechain
1	N	871	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	873	A	Sidechain
1	N	874	G	Sidechain
1	N	875	U	Sidechain
1	N	876	C	Sidechain
1	N	877	G	Sidechain
1	N	878	A	Sidechain
1	N	88	U	Sidechain
1	N	881	G	Sidechain
1	N	882	C	Sidechain
1	N	883	C	Sidechain
1	N	885	G	Sidechain
1	N	886	G	Sidechain
1	N	888	G	Sidechain
1	N	889	A	Sidechain
1	N	890	G	Sidechain
1	N	891	U	Sidechain
1	N	894	G	Sidechain
1	N	895	G	Sidechain
1	N	896	C	Sidechain
1	N	899	C	Sidechain
1	N	900	A	Sidechain
1	N	901	A	Sidechain
1	N	902	G	Sidechain
1	N	903	G	Sidechain
1	N	904	U	Sidechain
1	N	905	U	Sidechain
1	N	906	A	Sidechain
1	N	908	A	Sidechain
1	N	91	U	Sidechain
1	N	911	U	Sidechain
1	N	919	A	Sidechain
1	N	92	U	Sidechain
1	N	920	U	Sidechain
1	N	921	U	Sidechain
1	N	923	A	Sidechain
1	N	926	G	Sidechain
1	N	927	G	Sidechain
1	N	928	G	Sidechain
1	N	93	U	Sidechain
1	N	930	C	Sidechain
1	N	932	C	Sidechain
1	N	933	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	934	C	Sidechain
1	N	935	A	Sidechain
1	N	938	A	Sidechain
1	N	939	G	Sidechain
1	N	94	G	Sidechain
1	N	941	G	Sidechain
1	N	942	G	Sidechain
1	N	943	U	Sidechain
1	N	944	G	Sidechain
1	N	947	G	Sidechain
1	N	948	C	Sidechain
1	N	95	C	Sidechain
1	N	950	U	Sidechain
1	N	951	G	Sidechain
1	N	952	U	Sidechain
1	N	954	G	Sidechain
1	N	955	U	Sidechain
1	N	957	U	Sidechain
1	N	958	A	Sidechain
1	N	962	C	Sidechain
1	N	963	G	Sidechain
1	N	964	A	Sidechain
1	N	966	G	Sidechain
1	N	967	C	Sidechain
1	N	969	A	Sidechain
1	N	97	G	Sidechain
1	N	971	G	Sidechain
1	N	972	C	Sidechain
1	N	973	G	Sidechain
1	N	974	A	Sidechain
1	N	975	A	Sidechain
1	N	978	A	Sidechain
1	N	980	C	Sidechain
1	N	981	U	Sidechain
1	N	982	U	Sidechain
1	N	984	C	Sidechain
1	N	985	C	Sidechain
1	N	986	U	Sidechain
1	N	988	G	Sidechain
1	N	99	C	Sidechain
1	N	990	C	Sidechain
1	N	991	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	992	U	Sidechain
1	N	993	G	Sidechain
1	N	994	A	Sidechain
1	N	995	C	Sidechain
1	N	996	A	Sidechain
1	N	998	C	Sidechain

## 5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the 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 within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	N	32892	16554	16528	504	0
All	All	32892	16554	16528	504	0

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 10.

All (504) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:928:G:H21	1:N:1533:C:H42	1.24	0.85
1:N:67:C:H2'	1:N:68:G:C8	2.13	0.83
1:N:50:A:H1'	1:N:52:C:C6	2.23	0.73
1:N:1266:G:H21	1:N:1269:A:H8	1.39	0.70
1:N:1394:A:H3'	1:N:1395:C:H5'	1.74	0.69
1:N:94:G:H4'	1:N:95:C:H5''	1.74	0.68
1:N:596:A:H61	1:N:644:U:H3	1.40	0.68
1:N:998:C:H42	1:N:1042:A:H61	1.42	0.68
1:N:1240:U:C6	1:N:1241:G:H5'	2.28	0.68
1:N:79:G:H2'	1:N:80:A:C8	2.28	0.67
1:N:116:A:H61	1:N:313:A:H1'	1.60	0.67
1:N:635:A:C2	1:N:636:U:C2	2.82	0.66
1:N:272:C:C4	1:N:273:U:C4	2.84	0.66
1:N:1244:G:C6	1:N:1294:G:C6	2.83	0.66
1:N:668:G:C6	1:N:669:G:C6	2.85	0.65
1:N:664:G:H22	1:N:741:G:H1	1.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:373:A:C2	1:N:374:A:C4	2.85	0.64
1:N:1149:C:H2'	1:N:1150:A:C8	2.31	0.64
1:N:1184:G:C5	1:N:1185:G:C8	2.85	0.64
1:N:947:G:H1'	1:N:1332:A:H62	1.62	0.64
1:N:198:G:H2'	1:N:199:A:C8	2.34	0.63
1:N:858:G:H1	1:N:869:G:H2'	1.63	0.62
1:N:1255:G:H3'	1:N:1279:G:H22	1.64	0.62
1:N:1433:A:H1'	1:N:1468:A:C2	2.36	0.61
1:N:1255:G:H2'	1:N:1279:G:H1	1.65	0.61
1:N:949:A:H61	1:N:1232:U:H3	1.48	0.61
1:N:1065:U:H1'	1:N:1067:A:H61	1.66	0.61
1:N:1391:U:H2'	1:N:1392:G:C8	2.35	0.61
1:N:410:G:H2'	1:N:429:U:C5	2.36	0.60
1:N:713:G:C5	1:N:714:G:C6	2.89	0.60
1:N:1001:C:H42	1:N:1038:C:H42	1.48	0.60
1:N:1037:C:H2'	1:N:1038:C:C6	2.37	0.59
1:N:1282:C:H2'	1:N:1283:U:C6	2.38	0.59
1:N:1102:A:C2	1:N:1103:C:C2	2.90	0.59
1:N:1071:C:H2'	1:N:1072:G:C8	2.37	0.59
1:N:1315:U:H2'	1:N:1316:G:C8	2.38	0.59
1:N:507:C:H3'	1:N:508:U:H5''	1.85	0.58
1:N:584:G:C6	1:N:585:G:C6	2.91	0.58
1:N:1090:U:H2'	1:N:1091:U:C6	2.38	0.58
1:N:139:A:C6	1:N:140:U:C4	2.91	0.58
1:N:292:G:C5	1:N:293:G:H1'	2.38	0.58
1:N:1004:A:C5'	1:N:1024:G:H22	2.16	0.58
1:N:19:A:C2	1:N:917:G:C5	2.92	0.58
1:N:1315:U:C4	1:N:1316:G:C6	2.92	0.58
1:N:859:G:C6	1:N:860:A:C6	2.92	0.58
1:N:1268:G:H21	1:N:1326:U:H1'	1.69	0.57
1:N:78:A:C6	1:N:79:G:C6	2.92	0.57
1:N:113:G:H21	1:N:353:A:H2'	1.70	0.57
1:N:840:C:C2'	1:N:843:U:H3	2.17	0.57
1:N:1240:U:C2	1:N:1240:U:OP1	2.57	0.57
1:N:78:A:C5	1:N:79:G:C6	2.91	0.57
1:N:923:A:C2	1:N:924:C:C2	2.93	0.57
1:N:486:U:C6	1:N:486:U:H5''	2.40	0.56
1:N:120:A:C2	1:N:122:G:C6	2.93	0.56
1:N:260:G:H2'	1:N:261:U:C6	2.41	0.56
1:N:322:C:H2'	1:N:323:U:C6	2.40	0.56
1:N:946:A:C2	1:N:1236:A:C2	2.92	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1095:U:C4	1:N:1096:C:C4	2.93	0.56
1:N:1144:G:C6	1:N:1145:A:C5	2.94	0.56
1:N:339:C:C4	1:N:340:U:C4	2.93	0.56
1:N:50:A:C2	1:N:52:C:N3	2.74	0.56
1:N:776:G:H21	1:N:779:C:N4	2.04	0.56
1:N:780:A:C2	1:N:801:U:C5	2.93	0.56
1:N:794:A:H2'	1:N:795:C:H5'	1.87	0.55
1:N:1094:G:H2'	1:N:1108:G:H1	1.70	0.55
1:N:1244:G:C6	1:N:1245:C:C4	2.94	0.55
1:N:585:G:C2	1:N:586:C:C2	2.95	0.55
1:N:447:G:C5	1:N:485:U:C6	2.95	0.55
1:N:449:G:C6	1:N:450:G:C6	2.94	0.55
1:N:858:G:H1	1:N:869:G:C2'	2.20	0.55
1:N:494:G:C4	1:N:496:A:C8	2.95	0.55
1:N:688:G:C8	1:N:688:G:H5''	2.41	0.55
1:N:65:A:H4'	1:N:66:A:H5'	1.88	0.55
1:N:197:A:H2	1:N:198:G:C4	2.25	0.54
1:N:946:A:H2'	1:N:947:G:C8	2.41	0.54
1:N:1483:A:C8	1:N:1484:C:C6	2.95	0.54
1:N:172:A:C8	1:N:174:A:C8	2.95	0.54
1:N:169:C:C4	1:N:170:U:C4	2.95	0.54
1:N:1434:A:C5	1:N:1435:G:C5	2.95	0.54
1:N:811:C:H2'	1:N:812:G:H5'	1.89	0.54
1:N:1072:G:C6	1:N:1073:U:N3	2.76	0.54
1:N:1184:G:C6	1:N:1185:G:C5	2.95	0.54
1:N:410:G:H2'	1:N:429:U:C4	2.43	0.54
1:N:70:U:C5	1:N:94:G:H2'	2.43	0.54
1:N:73:C:C6	1:N:73:C:H5''	2.42	0.54
1:N:524:G:C2	1:N:525:C:C2	2.96	0.54
1:N:69:G:C6	1:N:70:U:C4	2.96	0.53
1:N:349:A:C6	1:N:350:G:C6	2.95	0.53
1:N:1301:U:H2'	1:N:1303:C:C5	2.43	0.53
1:N:354:G:C6	1:N:355:C:C4	2.96	0.53
1:N:803:G:C6	1:N:804:U:C4	2.97	0.53
1:N:182:A:H5''	1:N:193:C:H41	1.74	0.53
1:N:80:A:C5	1:N:81:A:H1'	2.44	0.53
1:N:552:U:H2'	1:N:553:A:C8	2.44	0.53
1:N:558:G:H2'	1:N:559:A:C2	2.44	0.53
1:N:955:U:H3	1:N:1225:A:H2	1.55	0.53
1:N:355:C:H2'	1:N:356:A:C8	2.43	0.53
1:N:1314:C:N3	1:N:1315:U:C5	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1074:G:C5	1:N:1075:U:C4	2.97	0.53
1:N:772:U:H2'	1:N:773:G:C8	2.44	0.53
1:N:1191:A:H5'	1:N:1191:A:C8	2.44	0.53
1:N:438:U:C4	1:N:494:G:C8	2.98	0.52
1:N:734:G:H2'	1:N:735:C:C6	2.44	0.52
1:N:209:U:C4	1:N:211:G:N1	2.77	0.52
1:N:141:G:H22	1:N:195:A:H2	1.58	0.52
1:N:904:U:C4	1:N:905:U:C4	2.98	0.52
1:N:173:U:H3	1:N:198:G:H21	1.57	0.52
1:N:668:G:C5	1:N:669:G:C5	2.97	0.52
1:N:501:C:H2'	1:N:502:A:C8	2.45	0.52
1:N:1068:G:C6	1:N:1069:C:C5	2.98	0.52
1:N:563:A:C2	1:N:567:G:C5	2.98	0.52
1:N:1159:U:H5	1:N:1162:C:H42	1.58	0.52
1:N:1385:G:C6	1:N:1386:G:C6	2.97	0.52
1:N:406:G:C6	1:N:407:U:C4	2.98	0.52
1:N:928:G:H21	1:N:1533:C:N4	2.01	0.52
1:N:596:A:N6	1:N:644:U:H3	2.08	0.51
1:N:186:C:H2'	1:N:187:G:O4'	2.10	0.51
1:N:496:A:C2	1:N:497:G:C5	2.99	0.51
1:N:895:G:C5	1:N:896:C:C4	2.98	0.51
1:N:425:G:C5	1:N:426:U:C4	2.98	0.51
1:N:160:A:H2'	1:N:161:A:C8	2.45	0.51
1:N:829:G:C6	1:N:830:G:C5	2.99	0.51
1:N:1191:A:C2	1:N:1192:C:C5	2.98	0.51
1:N:1423:G:C5	1:N:1424:U:C4	2.98	0.51
1:N:1436:U:H2'	1:N:1437:A:C8	2.46	0.51
1:N:384:G:C6	1:N:385:C:C4	2.98	0.51
1:N:1056:U:H5''	1:N:1056:U:H6	1.75	0.51
1:N:1357:A:C6	1:N:1363:A:C2	2.98	0.51
1:N:323:U:C5	1:N:324:G:C5	2.99	0.51
1:N:506:G:C2	1:N:507:C:C2	2.99	0.51
1:N:895:G:C6	1:N:896:C:C4	2.99	0.51
1:N:1004:A:H5''	1:N:1024:G:H22	1.76	0.51
1:N:1058:G:C5	1:N:1059:C:C6	2.99	0.51
1:N:381:C:C5	1:N:382:A:C5	2.99	0.50
1:N:803:G:C5	1:N:804:U:C5	2.99	0.50
1:N:1135:U:H3	1:N:1140:C:H42	1.58	0.50
1:N:1210:C:C5	1:N:1211:U:C5	2.99	0.50
1:N:788:U:H2'	1:N:789:U:C6	2.46	0.50
1:N:1287:A:H2'	1:N:1288:A:C8	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1194:U:H2'	1:N:1195:C:C6	2.47	0.50
1:N:424:G:C6	1:N:425:G:C6	2.99	0.50
1:N:807:A:H2'	1:N:808:C:O4'	2.12	0.50
1:N:64:G:C5	1:N:99:C:C2	2.99	0.50
1:N:594:U:C4	1:N:595:A:C6	2.99	0.50
1:N:807:A:C6	1:N:808:C:C4	2.99	0.50
1:N:1072:G:C2	1:N:1073:U:C2	3.00	0.50
1:N:1146:A:C2	1:N:1147:C:H1'	2.47	0.50
1:N:425:G:C6	1:N:426:U:N3	2.79	0.50
1:N:461:A:H3'	1:N:462:G:C5'	2.42	0.50
1:N:134:G:C5	1:N:325:A:N6	2.80	0.50
1:N:482:A:C6	1:N:483:C:C2	3.00	0.50
1:N:688:G:H21	1:N:704:A:H2	1.60	0.50
1:N:896:C:H2'	1:N:897:C:H6	1.76	0.49
1:N:160:A:H2	1:N:347:G:C2	2.30	0.49
1:N:861:G:H21	1:N:874:G:H5'	1.77	0.49
1:N:840:C:H1'	1:N:843:U:H3	1.76	0.49
1:N:1142:G:C2	1:N:1143:G:H1'	2.47	0.49
1:N:81:A:C8	1:N:83:C:C2	3.00	0.49
1:N:21:G:H1'	1:N:914:A:H61	1.77	0.49
1:N:32:A:H4'	1:N:48:C:H42	1.78	0.49
1:N:213:G:C8	1:N:214:C:C5	3.01	0.49
1:N:917:G:C6	1:N:918:A:C6	3.00	0.49
1:N:81:A:OP2	1:N:83:C:C5	2.65	0.49
1:N:243:A:C2	1:N:282:A:N6	2.81	0.49
1:N:922:G:H21	1:N:1398:A:H1'	1.78	0.49
1:N:1177:G:H3'	1:N:1178:G:C8	2.48	0.49
1:N:247:G:H1'	1:N:282:A:C2	2.48	0.49
1:N:383:A:C5	1:N:384:G:H1'	2.48	0.49
1:N:1385:G:C6	1:N:1386:G:C5	3.01	0.49
1:N:171:A:C2	1:N:172:A:C2	3.01	0.49
1:N:575:G:C5	1:N:821:G:C8	3.00	0.49
1:N:945:G:H5'	1:N:1339:A:H61	1.78	0.49
1:N:996:A:H2	1:N:1045:C:HO2'	1.61	0.48
1:N:1064:G:H1'	1:N:1066:C:C5	2.48	0.48
1:N:282:A:C5	1:N:283:U:C4	3.01	0.48
1:N:673:A:C2	1:N:674:G:C6	3.01	0.48
1:N:761:G:C5	1:N:762:U:C4	3.01	0.48
1:N:1423:G:C6	1:N:1424:U:C4	3.00	0.48
1:N:215:C:C5	1:N:216:U:C4	3.01	0.48
1:N:815:A:C2	1:N:1529:G:C4	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:949:A:N6	1:N:1232:U:H3	2.11	0.48
1:N:1056:U:H5''	1:N:1056:U:C6	2.47	0.48
1:N:1239:A:H1'	1:N:1241:G:C8	2.48	0.48
1:N:1254:A:N1	1:N:1255:G:C5	2.82	0.48
1:N:1287:A:C6	1:N:1288:A:C6	3.01	0.48
1:N:909:A:C8	1:N:910:C:C6	3.01	0.48
1:N:115:G:C6	1:N:289:G:C6	3.01	0.48
1:N:1160:G:O6	1:N:1181:G:C6	2.67	0.48
1:N:64:G:C5	1:N:99:C:N3	2.81	0.48
1:N:216:U:H2'	1:N:217:C:C6	2.49	0.48
1:N:273:U:C4	1:N:274:A:C6	3.01	0.48
1:N:708:C:H2'	1:N:709:U:C6	2.48	0.48
1:N:301:G:C2	1:N:302:G:C4	3.02	0.48
1:N:160:A:C2	1:N:346:G:N1	2.82	0.48
1:N:849:G:C5	1:N:850:U:C5	3.02	0.47
1:N:899:C:C4	1:N:900:A:C5	3.01	0.47
1:N:1148:U:C5	1:N:1149:C:C4	3.02	0.47
1:N:80:A:C4	1:N:81:A:H1'	2.49	0.47
1:N:148:G:H1'	1:N:1447:A:H1'	1.96	0.47
1:N:322:C:H3'	1:N:323:U:C5	2.49	0.47
1:N:208:U:C6	1:N:210:C:C6	3.02	0.47
1:N:373:A:C2	1:N:374:A:N3	2.83	0.47
1:N:676:A:H2'	1:N:677:U:C6	2.50	0.47
1:N:887:G:H21	1:N:1489:G:H5''	1.79	0.47
1:N:1184:G:C4	1:N:1185:G:C8	3.02	0.47
1:N:201:G:N2	1:N:468:A:H62	2.12	0.47
1:N:800:G:N3	1:N:801:U:H5	2.12	0.47
1:N:1066:C:H3'	1:N:1067:A:C8	2.49	0.47
1:N:296:U:H2'	1:N:297:G:C8	2.49	0.47
1:N:982:U:H4'	1:N:983:A:O5'	2.15	0.47
1:N:1023:U:H2'	1:N:1024:G:C8	2.49	0.47
1:N:1385:G:C5	1:N:1386:G:C5	3.03	0.47
1:N:118:U:H2'	1:N:121:U:C5	2.50	0.47
1:N:501:C:H2'	1:N:502:A:H8	1.79	0.47
1:N:771:G:H2'	1:N:772:U:O4'	2.15	0.47
1:N:1011:C:C2	1:N:1019:A:C2	3.02	0.47
1:N:1083:U:H3'	1:N:1084:G:C8	2.50	0.47
1:N:141:G:C6	1:N:223:A:C6	3.03	0.46
1:N:145:G:C2	1:N:178:C:C2	3.03	0.46
1:N:176:C:H1'	1:N:1447:A:H2'	1.97	0.46
1:N:1177:G:C5	1:N:1178:G:C5	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1177:G:C6	1:N:1178:G:C2	3.03	0.46
1:N:405:U:C5'	1:N:495:A:C2	2.99	0.46
1:N:651:C:C4	1:N:652:U:C4	3.04	0.46
1:N:681:A:C6	1:N:710:G:C6	3.04	0.46
1:N:418:C:C5	1:N:419:C:C5	3.04	0.46
1:N:466:A:H2'	1:N:467:U:C2	2.51	0.46
1:N:936:C:H1'	1:N:1382:C:H42	1.80	0.46
1:N:1001:C:H42	1:N:1038:C:N4	2.13	0.46
1:N:70:U:H5	1:N:94:G:H2'	1.80	0.46
1:N:219:U:H2'	1:N:220:G:C8	2.49	0.46
1:N:376:G:C6	1:N:377:G:C6	3.03	0.46
1:N:604:G:C6	1:N:605:U:N3	2.83	0.46
1:N:678:U:H3	1:N:712:A:H61	1.62	0.46
1:N:738:C:C4	1:N:739:C:C4	3.03	0.46
1:N:1266:G:N2	1:N:1269:A:H8	2.11	0.46
1:N:61:G:N2	1:N:379:C:H4'	2.30	0.46
1:N:525:C:C4	1:N:526:C:C4	3.03	0.46
1:N:14:U:H3	1:N:16:A:H3'	1.80	0.46
1:N:39:G:C2	1:N:498:A:H2	2.34	0.46
1:N:102:G:C6	1:N:103:U:C4	3.04	0.46
1:N:756:C:C4	1:N:757:U:C4	3.03	0.46
1:N:124:C:C2	1:N:238:A:C2	3.04	0.46
1:N:595:A:H4'	1:N:596:A:H5'	1.98	0.46
1:N:603:U:H2'	1:N:604:G:C8	2.50	0.46
1:N:896:C:H2'	1:N:897:C:C6	2.50	0.46
1:N:109:A:C5	1:N:326:G:C5	3.04	0.46
1:N:297:G:N2	1:N:301:G:C5	2.84	0.46
1:N:761:G:C6	1:N:762:U:C4	3.03	0.46
1:N:1530:G:C4	1:N:1531:A:C2	3.04	0.46
1:N:747:A:C6	1:N:748:G:C6	3.04	0.46
1:N:1433:A:C1'	1:N:1468:A:C2	2.99	0.46
1:N:121:U:C6	1:N:122:G:C8	3.04	0.45
1:N:668:G:C6	1:N:669:G:C5	3.04	0.45
1:N:1353:G:C2	1:N:1370:G:C2	3.04	0.45
1:N:44:A:C2	1:N:45:G:C4	3.05	0.45
1:N:929:G:C6	1:N:930:C:C4	3.05	0.45
1:N:1157:A:C4	1:N:1181:G:C6	3.04	0.45
1:N:1439:G:C5	1:N:1440:U:C6	3.04	0.45
1:N:68:G:C8	1:N:69:G:C8	3.04	0.45
1:N:121:U:C5	1:N:122:G:C8	3.04	0.45
1:N:595:A:C2	1:N:596:A:N6	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:832:G:C5	1:N:855:U:N3	2.85	0.45
1:N:1170:A:C5	1:N:1171:A:C4	3.04	0.45
1:N:1290:G:C5	1:N:1291:U:C5	3.05	0.45
1:N:1438:G:C6	1:N:1464:U:N3	2.84	0.45
1:N:1042:A:C6	1:N:1043:G:C6	3.04	0.45
1:N:1075:U:H2'	1:N:1076:U:O4'	2.17	0.45
1:N:213:G:C8	1:N:214:C:C6	3.04	0.45
1:N:610:U:H2'	1:N:612:C:H41	1.82	0.45
1:N:898:G:C2	1:N:902:G:C5	3.03	0.45
1:N:1177:G:H3'	1:N:1178:G:H8	1.81	0.45
1:N:337:G:C2	1:N:338:A:C5	3.05	0.45
1:N:512:U:H3	1:N:539:A:H61	1.63	0.45
1:N:57:G:C6	1:N:356:A:N1	2.84	0.45
1:N:688:G:C6	1:N:700:G:C6	3.05	0.45
1:N:840:C:C1'	1:N:843:U:H3	2.30	0.45
1:N:1255:G:C4	1:N:1279:G:C6	3.05	0.45
1:N:655:A:C2	1:N:656:G:C4	3.05	0.45
1:N:830:G:C2	1:N:857:C:O2	2.69	0.45
1:N:830:G:N1	1:N:857:C:C2	2.85	0.45
1:N:858:G:H1	1:N:869:G:C3'	2.30	0.45
1:N:1433:A:C8	1:N:1468:A:C6	3.05	0.45
1:N:301:G:C6	1:N:302:G:C6	3.05	0.44
1:N:1254:A:C2	1:N:1255:G:C4	3.05	0.44
1:N:22:G:C6	1:N:23:C:C4	3.06	0.44
1:N:44:A:C2	1:N:45:G:C5	3.05	0.44
1:N:301:G:C6	1:N:302:G:C5	3.05	0.44
1:N:381:C:C4	1:N:382:A:C4	3.05	0.44
1:N:738:C:H2'	1:N:739:C:C6	2.52	0.44
1:N:298:A:H3'	1:N:299:G:C8	2.52	0.44
1:N:424:G:C2	1:N:425:G:C4	3.06	0.44
1:N:563:A:H2'	1:N:563:A:N3	2.31	0.44
1:N:397:A:H4'	1:N:398:U:C5	2.52	0.44
1:N:482:A:N7	1:N:483:C:C4	2.86	0.44
1:N:934:C:C5	1:N:1344:C:H2'	2.53	0.44
1:N:64:G:C4	1:N:99:C:C4	3.05	0.44
1:N:150:U:C5	1:N:170:U:C5	3.06	0.44
1:N:174:A:C5	1:N:175:C:C5	3.05	0.44
1:N:195:A:H1'	1:N:223:A:H5'	2.00	0.44
1:N:257:G:C2	1:N:258:G:C4	3.06	0.44
1:N:604:G:C2	1:N:605:U:C2	3.06	0.44
1:N:688:G:H5''	1:N:688:G:H8	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:872:A:C5	1:N:874:G:C8	3.06	0.44
1:N:978:A:H4'	1:N:1322:C:C6	2.51	0.44
1:N:232:G:C6	1:N:233:C:C4	3.06	0.44
1:N:981:U:C6	1:N:982:U:H2'	2.53	0.44
1:N:985:C:C4	1:N:986:U:C4	3.06	0.44
1:N:285:C:H2'	1:N:286:C:C6	2.52	0.44
1:N:558:G:C8	1:N:559:A:H2'	2.52	0.44
1:N:1025:U:H2'	1:N:1031:C:C5	2.53	0.44
1:N:1369:C:H2'	1:N:1370:G:C8	2.53	0.44
1:N:663:A:C2	1:N:743:A:C2	3.05	0.44
1:N:65:A:C5	1:N:200:G:H1'	2.53	0.44
1:N:202:G:C2	1:N:203:G:C8	3.06	0.44
1:N:320:A:H2'	1:N:321:A:C8	2.53	0.44
1:N:474:G:C6	1:N:475:C:N3	2.86	0.44
1:N:1144:G:H21	1:N:1146:A:H62	1.66	0.44
1:N:677:U:C4	1:N:678:U:C4	3.06	0.43
1:N:1285:A:H61	1:N:1355:G:C5'	2.30	0.43
1:N:243:A:H4'	1:N:244:U:H5''	1.99	0.43
1:N:922:G:H2'	1:N:923:A:C8	2.53	0.43
1:N:1006:G:N2	1:N:1024:G:H1'	2.32	0.43
1:N:61:G:H21	1:N:379:C:H4'	1.82	0.43
1:N:68:G:C4	1:N:69:G:H1'	2.53	0.43
1:N:94:G:H4'	1:N:95:C:C5'	2.43	0.43
1:N:295:C:H2'	1:N:296:U:O4'	2.18	0.43
1:N:380:G:C2	1:N:384:G:C6	3.07	0.43
1:N:533:A:C2	1:N:535:A:H8	2.36	0.43
1:N:1375:A:H2'	1:N:1376:U:O4'	2.18	0.43
1:N:1513:A:C5	1:N:1523:G:C6	3.07	0.43
1:N:157:U:C2	1:N:165:G:N1	2.87	0.43
1:N:323:U:N3	1:N:324:G:C4	2.87	0.43
1:N:1143:G:H2'	1:N:1144:G:H8	1.83	0.43
1:N:1148:U:N3	1:N:1149:C:C2	2.86	0.43
1:N:87:C:C5	1:N:88:U:C5	3.07	0.43
1:N:207:C:H2'	1:N:208:U:C5	2.54	0.43
1:N:322:C:H3'	1:N:323:U:C6	2.53	0.43
1:N:687:A:C2	1:N:704:A:C6	3.06	0.43
1:N:1283:U:H2'	1:N:1284:C:C6	2.53	0.43
1:N:78:A:C2	1:N:79:G:C2	3.06	0.43
1:N:320:A:H4'	1:N:1466:C:O2	2.18	0.43
1:N:321:A:H2'	1:N:322:C:H6	1.84	0.43
1:N:503:C:O2	1:N:510:A:C2	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:749:A:H2'	1:N:750:C:C6	2.54	0.43
1:N:843:U:H2'	1:N:846:G:H21	1.83	0.43
1:N:909:A:C8	1:N:910:C:C5	3.07	0.43
1:N:1072:G:C2	1:N:1104:G:C2	3.07	0.43
1:N:1501:C:C5	1:N:1504:G:C4	3.06	0.43
1:N:102:G:C5	1:N:103:U:C5	3.06	0.43
1:N:151:A:C6	1:N:171:A:C6	3.06	0.43
1:N:582:C:H3'	1:N:582:C:C6	2.53	0.43
1:N:39:G:C4	1:N:498:A:C2	3.06	0.43
1:N:93:U:H3'	1:N:93:U:C6	2.54	0.43
1:N:255:G:C4	1:N:256:U:C6	3.06	0.43
1:N:635:A:C5	1:N:636:U:C4	3.07	0.43
1:N:1129:C:C4	1:N:1139:G:C4	3.07	0.43
1:N:197:A:C2	1:N:198:G:C4	3.07	0.43
1:N:644:U:C2	1:N:645:G:C8	3.07	0.43
1:N:1004:A:H5'	1:N:1024:G:H22	1.83	0.43
1:N:64:G:C2	1:N:67:C:C5	3.07	0.42
1:N:69:G:H2'	1:N:70:U:C6	2.54	0.42
1:N:179:A:C5	1:N:180:U:C4	3.07	0.42
1:N:338:A:H61	1:N:351:G:H1	1.66	0.42
1:N:980:C:H3'	1:N:981:U:C6	2.54	0.42
1:N:160:A:C5	1:N:161:A:C6	3.06	0.42
1:N:247:G:H1'	1:N:282:A:H2	1.83	0.42
1:N:432:A:H3'	1:N:433:G:H8	1.82	0.42
1:N:474:G:C5	1:N:475:C:C4	3.07	0.42
1:N:537:G:C6	1:N:538:G:C6	3.07	0.42
1:N:708:C:C4	1:N:709:U:C4	3.07	0.42
1:N:1047:G:C2	1:N:1213:A:C2	3.08	0.42
1:N:1195:C:H2'	1:N:1197:A:H5'	2.02	0.42
1:N:1394:A:H3'	1:N:1395:C:C5'	2.46	0.42
1:N:155:A:C4	1:N:167:A:C2	3.07	0.42
1:N:581:G:N2	1:N:761:G:C6	2.87	0.42
1:N:1171:A:C2	1:N:1172:C:C2	3.07	0.42
1:N:1416:G:C6	1:N:1417:G:C4	3.07	0.42
1:N:424:G:C4	1:N:425:G:C8	3.07	0.42
1:N:679:C:H2'	1:N:680:C:O4'	2.19	0.42
1:N:749:A:C5	1:N:750:C:C4	3.08	0.42
1:N:1068:G:C6	1:N:1108:G:C5	3.07	0.42
1:N:1239:A:C2	1:N:1241:G:C6	3.07	0.42
1:N:1433:A:H3'	1:N:1434:A:H8	1.85	0.42
1:N:28:A:H2	1:N:555:U:H3	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:64:G:H2'	1:N:99:C:N4	2.35	0.42
1:N:68:G:C6	1:N:102:G:N1	2.88	0.42
1:N:143:A:N3	1:N:143:A:H2'	2.35	0.42
1:N:424:G:C5	1:N:425:G:C5	3.07	0.42
1:N:465:A:C6	1:N:466:A:C6	3.08	0.42
1:N:604:G:C5	1:N:605:U:C4	3.07	0.42
1:N:1162:C:H2'	1:N:1163:A:C8	2.54	0.42
1:N:1223:C:H5''	1:N:1224:U:H3'	2.01	0.42
1:N:1345:U:C2	1:N:1375:A:N1	2.87	0.42
1:N:794:A:C2'	1:N:795:C:H5'	2.50	0.42
1:N:826:C:N3	1:N:827:U:C5	2.87	0.42
1:N:39:G:H1'	1:N:497:G:H21	1.85	0.42
1:N:64:G:C2	1:N:69:G:C6	3.08	0.42
1:N:68:G:N1	1:N:102:G:C2	2.88	0.42
1:N:92:U:H2'	1:N:93:U:C6	2.55	0.42
1:N:584:G:H2'	1:N:585:G:O4'	2.20	0.42
1:N:749:A:C2	1:N:750:C:C2	3.08	0.42
1:N:958:A:C2	1:N:959:A:C2	3.07	0.42
1:N:1047:G:C2	1:N:1213:A:H2	2.37	0.42
1:N:1239:A:H4'	1:N:1240:U:OP1	2.20	0.42
1:N:218:U:C5	1:N:219:U:C4	3.08	0.42
1:N:446:G:C2	1:N:489:C:C2	3.07	0.42
1:N:64:G:H2'	1:N:99:C:H41	1.85	0.42
1:N:141:G:C2	1:N:223:A:C2	3.08	0.42
1:N:399:G:C6	1:N:400:C:C5	3.08	0.42
1:N:579:A:C6	1:N:763:G:C6	3.08	0.42
1:N:620:C:N4	1:N:621:A:C2	2.88	0.42
1:N:1484:C:C4	1:N:1485:U:N3	2.88	0.42
1:N:154:U:H2'	1:N:155:A:C8	2.55	0.42
1:N:301:G:H4'	1:N:564:C:H42	1.84	0.42
1:N:1074:G:C6	1:N:1075:U:C4	3.07	0.42
1:N:142:G:C2	1:N:222:C:C6	3.07	0.41
1:N:215:C:C6	1:N:216:U:C5	3.08	0.41
1:N:293:G:H21	1:N:306:A:H2	1.57	0.41
1:N:669:G:C6	1:N:670:G:C6	3.07	0.41
1:N:1129:C:C2	1:N:1144:G:C2	3.08	0.41
1:N:1511:G:C6	1:N:1512:U:C4	3.08	0.41
1:N:68:G:C5	1:N:69:G:H1'	2.54	0.41
1:N:73:C:H5''	1:N:73:C:H6	1.85	0.41
1:N:635:A:C6	1:N:636:U:C4	3.08	0.41
1:N:872:A:N3	1:N:872:A:H2'	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1006:G:C6	1:N:1024:G:C2	3.08	0.41
1:N:1041:G:C6	1:N:1042:A:C6	3.09	0.41
1:N:1229:A:C5	1:N:1230:C:C5	3.07	0.41
1:N:1366:C:C4	1:N:1367:C:C4	3.08	0.41
1:N:555:U:H6	1:N:555:U:O5'	2.04	0.41
1:N:625:U:H2'	1:N:626:G:C8	2.55	0.41
1:N:923:A:H1'	1:N:1398:A:H2'	2.02	0.41
1:N:1307:U:C4	1:N:1308:U:C5	3.08	0.41
1:N:1391:U:H2'	1:N:1392:G:H8	1.83	0.41
1:N:320:A:H61	1:N:333:U:H3	1.68	0.41
1:N:411:A:C4	1:N:429:U:C4	3.08	0.41
1:N:516:U:C5	1:N:517:G:C8	3.08	0.41
1:N:749:A:C6	1:N:750:C:C4	3.09	0.41
1:N:811:C:C2'	1:N:812:G:H5'	2.51	0.41
1:N:1205:U:H2'	1:N:1206:G:C8	2.55	0.41
1:N:272:C:C2	1:N:273:U:C6	3.09	0.41
1:N:411:A:C4	1:N:429:U:C5	3.08	0.41
1:N:438:U:C5	1:N:494:G:C8	3.08	0.41
1:N:583:A:C5	1:N:584:G:C8	3.09	0.41
1:N:620:C:C5	1:N:621:A:C5	3.08	0.41
1:N:62:U:N3	1:N:63:C:C4	2.89	0.41
1:N:76:G:C6	1:N:77:A:C5	3.09	0.41
1:N:168:G:N1	1:N:169:C:C4	2.89	0.41
1:N:409:U:H2'	1:N:410:G:C8	2.56	0.41
1:N:803:G:C2	1:N:804:U:C2	3.09	0.41
1:N:824:G:N1	1:N:877:G:C6	2.88	0.41
1:N:1258:G:H2'	1:N:1259:C:H6	1.86	0.41
1:N:65:A:C6	1:N:200:G:H1'	2.56	0.41
1:N:544:G:C6	1:N:545:C:C4	3.09	0.41
1:N:596:A:N1	1:N:645:G:C2	2.88	0.41
1:N:1083:U:H1'	1:N:1101:A:C8	2.56	0.41
1:N:1254:A:C2	1:N:1255:G:C5	3.09	0.41
1:N:78:A:C6	1:N:79:G:N1	2.88	0.41
1:N:91:U:C5	1:N:92:U:C2	3.09	0.41
1:N:620:C:H3'	1:N:621:A:C8	2.55	0.41
1:N:804:U:H5	1:N:805:C:C4	2.39	0.41
1:N:862:C:H1'	1:N:874:G:H5''	2.03	0.41
1:N:1043:G:H2'	1:N:1044:A:C8	2.56	0.41
1:N:1074:G:C6	1:N:1075:U:N3	2.88	0.41
1:N:1255:G:C6	1:N:1279:G:C5	3.08	0.41
1:N:1316:G:C2	1:N:1319:A:C8	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:69:G:C4	1:N:70:U:C5	3.09	0.41
1:N:405:U:H5''	1:N:495:A:C2	2.56	0.41
1:N:437:U:C4	1:N:438:U:C5	3.09	0.41
1:N:582:C:C6	1:N:582:C:C3'	3.03	0.41
1:N:872:A:N7	1:N:874:G:C8	2.88	0.41
1:N:894:G:H2'	1:N:895:G:O4'	2.20	0.41
1:N:951:G:C6	1:N:1231:G:C6	3.09	0.41
1:N:1066:C:C6	1:N:1066:C:H5''	2.56	0.41
1:N:656:G:C6	1:N:657:U:C4	3.09	0.41
1:N:1314:C:C2	1:N:1324:A:C2	3.09	0.41
1:N:53:A:C2	1:N:359:G:C5	3.08	0.40
1:N:207:C:H2'	1:N:208:U:C2	2.56	0.40
1:N:670:G:N2	1:N:737:C:C2	2.89	0.40
1:N:1007:U:O2	1:N:1023:U:C2	2.74	0.40
1:N:27:G:C5	1:N:557:G:C2	3.10	0.40
1:N:602:A:C2	1:N:637:C:C2	3.10	0.40
1:N:606:G:H1'	1:N:632:U:C4	2.56	0.40
1:N:701:U:H5''	1:N:703:G:H5'	2.03	0.40
1:N:98:A:C6	1:N:99:C:C4	3.10	0.40
1:N:199:A:C2	1:N:219:U:O2	2.74	0.40
1:N:770:C:H2'	1:N:771:G:C8	2.56	0.40
1:N:1218:C:C2	1:N:1219:A:C8	3.10	0.40
1:N:1349:A:C8	1:N:1350:A:C8	3.09	0.40
1:N:69:G:C5	1:N:70:U:C5	3.09	0.40
1:N:200:G:C6	1:N:201:G:C6	3.09	0.40
1:N:502:A:H61	1:N:543:U:H3	1.68	0.40
1:N:663:A:N1	1:N:743:A:C2	2.89	0.40
1:N:850:U:C2	1:N:851:G:C8	3.10	0.40
1:N:979:C:C5	1:N:980:C:C6	3.09	0.40
1:N:1016:A:C8	1:N:1017:U:H1'	2.57	0.40
1:N:1032:G:C2	1:N:1033:G:C8	3.10	0.40
1:N:1049:U:H4'	1:N:1050:G:H5'	2.04	0.40
1:N:1184:G:C5	1:N:1185:G:N7	2.89	0.40
1:N:11:G:C6	1:N:12:U:N3	2.89	0.40
1:N:477:C:H2'	1:N:478:A:C8	2.56	0.40
1:N:737:C:N3	1:N:738:C:C4	2.90	0.40
1:N:989:U:N3	1:N:990:C:C5	2.89	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

### 5.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

### 5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	N	1532/1533 (99%)	460 (30%)	145 (9%)

All (460) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	N	3	A
1	N	4	U
1	N	5	U
1	N	6	G
1	N	7	A
1	N	8	A
1	N	9	G
1	N	13	U
1	N	14	U
1	N	22	G
1	N	31	G
1	N	32	A
1	N	33	A
1	N	39	G
1	N	47	C
1	N	48	C
1	N	49	U
1	N	50	A
1	N	51	A
1	N	52	C
1	N	59	A
1	N	60	A
1	N	61	G
1	N	64	G
1	N	65	A

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Mol	Chain	Res	Type
1	N	66	A
1	N	70	U
1	N	71	A
1	N	72	A
1	N	73	C
1	N	74	A
1	N	75	G
1	N	76	G
1	N	77	A
1	N	79	G
1	N	81	A
1	N	82	G
1	N	83	C
1	N	84	U
1	N	85	U
1	N	86	G
1	N	88	U
1	N	89	U
1	N	90	C
1	N	91	U
1	N	92	U
1	N	94	G
1	N	95	C
1	N	97	G
1	N	107	G
1	N	108	G
1	N	109	A
1	N	110	C
1	N	115	G
1	N	116	A
1	N	119	A
1	N	120	A
1	N	127	G
1	N	130	A
1	N	131	A
1	N	132	C
1	N	134	G
1	N	135	C
1	N	138	G
1	N	141	G
1	N	143	A
1	N	159	G

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Mol	Chain	Res	Type
1	N	160	A
1	N	161	A
1	N	163	C
1	N	164	G
1	N	173	U
1	N	174	A
1	N	177	G
1	N	181	A
1	N	182	A
1	N	183	C
1	N	195	A
1	N	197	A
1	N	198	G
1	N	199	A
1	N	202	G
1	N	205	A
1	N	207	C
1	N	208	U
1	N	209	U
1	N	210	C
1	N	211	G
1	N	212	G
1	N	214	C
1	N	219	U
1	N	232	G
1	N	240	G
1	N	243	A
1	N	244	U
1	N	245	U
1	N	247	G
1	N	251	G
1	N	252	U
1	N	258	G
1	N	266	G
1	N	267	C
1	N	268	U
1	N	273	U
1	N	274	A
1	N	275	G
1	N	280	C
1	N	281	G
1	N	285	C

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Mol	Chain	Res	Type
1	N	289	G
1	N	305	G
1	N	306	A
1	N	308	C
1	N	316	C
1	N	320	A
1	N	321	A
1	N	328	C
1	N	329	A
1	N	330	C
1	N	331	G
1	N	332	G
1	N	344	A
1	N	345	C
1	N	346	G
1	N	347	G
1	N	351	G
1	N	352	C
1	N	353	A
1	N	354	G
1	N	363	A
1	N	366	A
1	N	367	U
1	N	368	U
1	N	373	A
1	N	384	G
1	N	389	A
1	N	390	U
1	N	392	C
1	N	406	G
1	N	411	A
1	N	412	A
1	N	413	G
1	N	414	A
1	N	421	U
1	N	422	C
1	N	423	G
1	N	424	G
1	N	428	G
1	N	429	U
1	N	430	A
1	N	438	U

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Mol	Chain	Res	Type
1	N	439	U
1	N	441	A
1	N	448	A
1	N	451	A
1	N	452	A
1	N	458	U
1	N	459	A
1	N	461	A
1	N	462	G
1	N	463	U
1	N	466	A
1	N	467	U
1	N	468	A
1	N	469	C
1	N	481	G
1	N	482	A
1	N	484	G
1	N	485	U
1	N	486	U
1	N	496	A
1	N	497	G
1	N	498	A
1	N	499	A
1	N	500	G
1	N	501	C
1	N	508	U
1	N	509	A
1	N	511	C
1	N	512	U
1	N	518	C
1	N	523	A
1	N	527	G
1	N	530	G
1	N	531	U
1	N	532	A
1	N	533	A
1	N	534	U
1	N	535	A
1	N	536	C
1	N	537	G
1	N	546	A
1	N	548	G

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Mol	Chain	Res	Type
1	N	556	C
1	N	559	A
1	N	560	A
1	N	562	U
1	N	563	A
1	N	564	C
1	N	566	G
1	N	567	G
1	N	572	A
1	N	573	A
1	N	574	A
1	N	575	G
1	N	576	C
1	N	577	G
1	N	579	A
1	N	588	G
1	N	595	A
1	N	596	A
1	N	604	G
1	N	606	G
1	N	607	A
1	N	610	U
1	N	629	A
1	N	631	C
1	N	632	U
1	N	633	G
1	N	642	A
1	N	649	A
1	N	653	U
1	N	665	A
1	N	702	A
1	N	703	G
1	N	718	A
1	N	719	C
1	N	720	C
1	N	721	G
1	N	722	G
1	N	723	U
1	N	724	G
1	N	731	G
1	N	733	G
1	N	748	G

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Mol	Chain	Res	Type
1	N	754	C
1	N	755	G
1	N	767	A
1	N	768	A
1	N	776	G
1	N	777	A
1	N	787	A
1	N	788	U
1	N	790	A
1	N	793	U
1	N	794	A
1	N	811	C
1	N	812	G
1	N	813	U
1	N	814	A
1	N	815	A
1	N	816	A
1	N	817	C
1	N	818	G
1	N	819	A
1	N	820	U
1	N	821	G
1	N	828	U
1	N	829	G
1	N	832	G
1	N	843	U
1	N	844	G
1	N	845	A
1	N	846	G
1	N	855	U
1	N	861	G
1	N	870	U
1	N	871	U
1	N	884	U
1	N	885	G
1	N	914	A
1	N	926	G
1	N	927	G
1	N	932	C
1	N	934	C
1	N	935	A
1	N	944	G

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Mol	Chain	Res	Type
1	N	960	U
1	N	961	U
1	N	965	U
1	N	966	G
1	N	967	C
1	N	968	A
1	N	969	A
1	N	970	C
1	N	971	G
1	N	972	C
1	N	974	A
1	N	975	A
1	N	976	G
1	N	977	A
1	N	982	U
1	N	983	A
1	N	992	U
1	N	993	G
1	N	1003	G
1	N	1004	A
1	N	1008	U
1	N	1017	U
1	N	1018	G
1	N	1022	A
1	N	1028	C
1	N	1029	U
1	N	1030	U
1	N	1031	C
1	N	1032	G
1	N	1033	G
1	N	1034	G
1	N	1036	A
1	N	1050	G
1	N	1052	U
1	N	1053	G
1	N	1054	C
1	N	1055	A
1	N	1064	G
1	N	1065	U
1	N	1066	C
1	N	1067	A
1	N	1085	U

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Mol	Chain	Res	Type
1	N	1086	U
1	N	1087	G
1	N	1088	G
1	N	1091	U
1	N	1092	A
1	N	1094	G
1	N	1095	U
1	N	1100	C
1	N	1101	A
1	N	1102	A
1	N	1104	G
1	N	1111	A
1	N	1113	C
1	N	1124	G
1	N	1125	U
1	N	1126	U
1	N	1127	G
1	N	1129	C
1	N	1133	G
1	N	1135	U
1	N	1136	C
1	N	1137	C
1	N	1138	G
1	N	1139	G
1	N	1140	C
1	N	1141	C
1	N	1144	G
1	N	1145	A
1	N	1151	A
1	N	1152	A
1	N	1158	C
1	N	1159	U
1	N	1160	G
1	N	1161	C
1	N	1167	A
1	N	1168	U
1	N	1169	A
1	N	1181	G
1	N	1182	G
1	N	1189	U
1	N	1190	G
1	N	1191	A

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Mol	Chain	Res	Type
1	N	1192	C
1	N	1193	G
1	N	1194	U
1	N	1196	A
1	N	1197	A
1	N	1198	G
1	N	1200	C
1	N	1201	A
1	N	1202	U
1	N	1211	U
1	N	1213	A
1	N	1223	C
1	N	1224	U
1	N	1225	A
1	N	1226	C
1	N	1227	A
1	N	1228	C
1	N	1229	A
1	N	1238	A
1	N	1239	A
1	N	1240	U
1	N	1241	G
1	N	1250	A
1	N	1252	A
1	N	1256	A
1	N	1257	A
1	N	1258	G
1	N	1275	A
1	N	1278	G
1	N	1279	G
1	N	1280	A
1	N	1281	C
1	N	1282	C
1	N	1283	U
1	N	1286	U
1	N	1287	A
1	N	1293	C
1	N	1297	G
1	N	1298	U
1	N	1299	A
1	N	1303	C
1	N	1305	G

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Mol	Chain	Res	Type
1	N	1308	U
1	N	1315	U
1	N	1316	G
1	N	1320	C
1	N	1322	C
1	N	1323	G
1	N	1332	A
1	N	1336	C
1	N	1337	G
1	N	1338	G
1	N	1346	A
1	N	1348	U
1	N	1353	G
1	N	1358	U
1	N	1359	C
1	N	1362	A
1	N	1363	A
1	N	1364	U
1	N	1365	G
1	N	1370	G
1	N	1371	G
1	N	1380	U
1	N	1381	U
1	N	1394	A
1	N	1396	A
1	N	1397	C
1	N	1398	A
1	N	1399	C
1	N	1400	C
1	N	1401	G
1	N	1406	U
1	N	1433	A
1	N	1440	U
1	N	1441	A
1	N	1446	A
1	N	1448	C
1	N	1452	C
1	N	1453	G
1	N	1469	C
1	N	1470	U
1	N	1492	A
1	N	1493	A

*Continued on next page...*

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Mol	Chain	Res	Type
1	N	1494	G
1	N	1497	G
1	N	1498	U
1	N	1499	A
1	N	1502	A
1	N	1503	A
1	N	1505	G
1	N	1506	U
1	N	1507	A
1	N	1517	G
1	N	1529	G
1	N	1530	G
1	N	1531	A
1	N	1533	C
1	N	1534	A

All (145) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	N	5	U
1	N	7	A
1	N	13	U
1	N	30	U
1	N	31	G
1	N	47	C
1	N	51	A
1	N	60	A
1	N	65	A
1	N	71	A
1	N	73	C
1	N	75	G
1	N	81	A
1	N	87	C
1	N	90	C
1	N	94	G
1	N	95	C
1	N	107	G
1	N	109	A
1	N	115	G
1	N	119	A
1	N	120	A
1	N	129	A

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Mol	Chain	Res	Type
1	N	130	A
1	N	131	A
1	N	134	G
1	N	168	G
1	N	181	A
1	N	197	A
1	N	198	G
1	N	204	G
1	N	210	C
1	N	243	A
1	N	246	A
1	N	251	G
1	N	266	G
1	N	267	C
1	N	274	A
1	N	280	C
1	N	305	G
1	N	327	A
1	N	344	A
1	N	346	G
1	N	351	G
1	N	366	A
1	N	372	C
1	N	428	G
1	N	429	U
1	N	430	A
1	N	438	U
1	N	451	A
1	N	467	U
1	N	481	G
1	N	484	G
1	N	485	U
1	N	495	A
1	N	496	A
1	N	499	A
1	N	500	G
1	N	508	U
1	N	511	C
1	N	513	C
1	N	530	G
1	N	531	U
1	N	532	A

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Mol	Chain	Res	Type
1	N	535	A
1	N	547	A
1	N	548	G
1	N	559	A
1	N	563	A
1	N	566	G
1	N	575	G
1	N	637	C
1	N	641	U
1	N	652	U
1	N	686	U
1	N	695	A
1	N	717	U
1	N	721	G
1	N	723	U
1	N	733	G
1	N	754	C
1	N	777	A
1	N	817	C
1	N	820	U
1	N	843	U
1	N	845	A
1	N	870	U
1	N	884	U
1	N	913	A
1	N	934	C
1	N	941	G
1	N	960	U
1	N	965	U
1	N	974	A
1	N	982	U
1	N	991	U
1	N	1049	U
1	N	1053	G
1	N	1064	G
1	N	1066	C
1	N	1087	G
1	N	1094	G
1	N	1101	A
1	N	1126	U
1	N	1129	C
1	N	1136	C

*Continued on next page...*

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Mol	Chain	Res	Type
1	N	1151	A
1	N	1167	A
1	N	1168	U
1	N	1185	G
1	N	1191	A
1	N	1197	A
1	N	1201	A
1	N	1224	U
1	N	1228	C
1	N	1232	U
1	N	1239	A
1	N	1263	C
1	N	1282	C
1	N	1285	A
1	N	1299	A
1	N	1319	A
1	N	1331	G
1	N	1336	C
1	N	1337	G
1	N	1345	U
1	N	1348	U
1	N	1358	U
1	N	1362	A
1	N	1363	A
1	N	1364	U
1	N	1380	U
1	N	1396	A
1	N	1398	A
1	N	1399	C
1	N	1400	C
1	N	1432	G
1	N	1440	U
1	N	1494	G
1	N	1498	U
1	N	1502	A
1	N	1506	U
1	N	1530	G
1	N	1533	C

## 5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

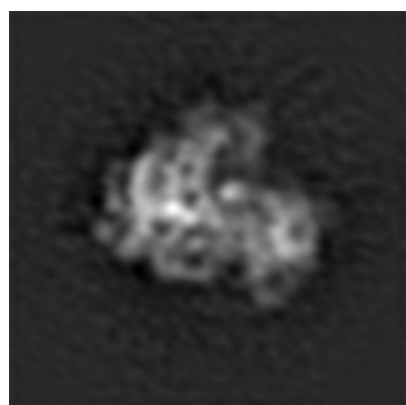
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-5502. These allow visual inspection of the internal detail of the map and identification of artifacts.

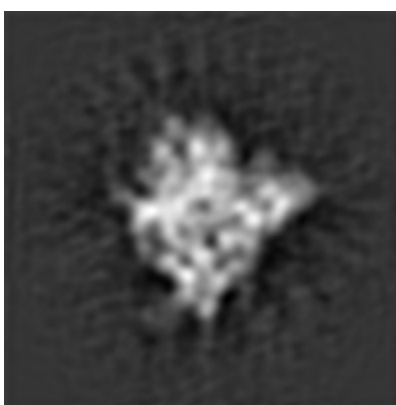
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

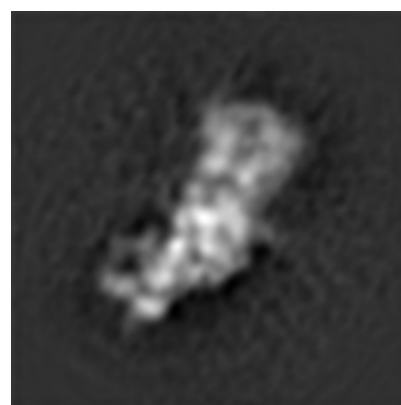
#### 6.1.1 Primary map



X



Y

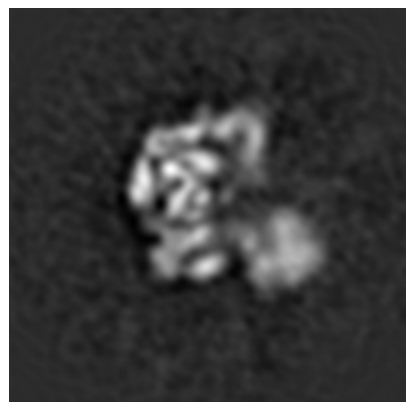


Z

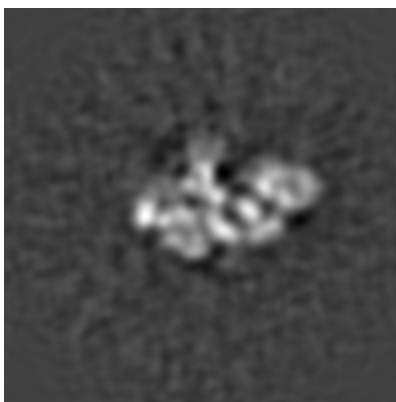
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

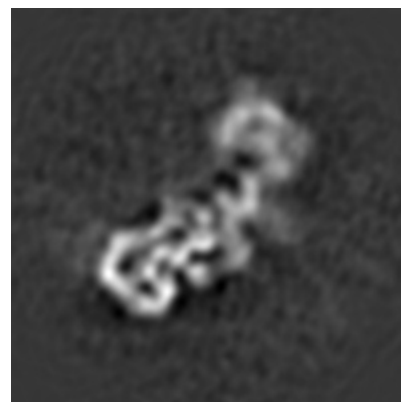
#### 6.2.1 Primary map



X Index: 62



Y Index: 62



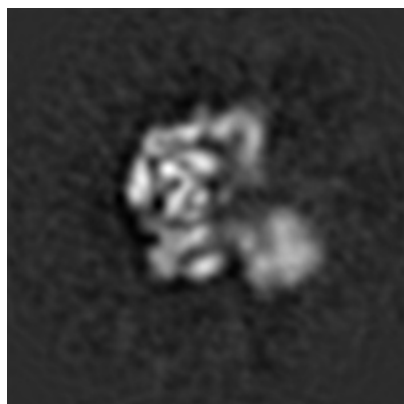
Z Index: 62



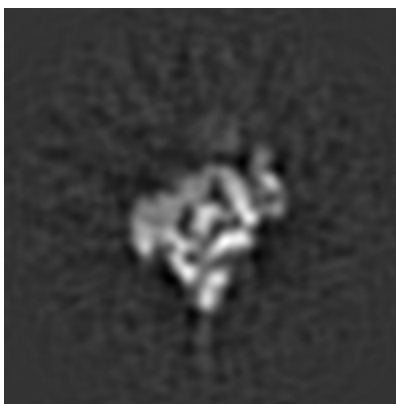
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

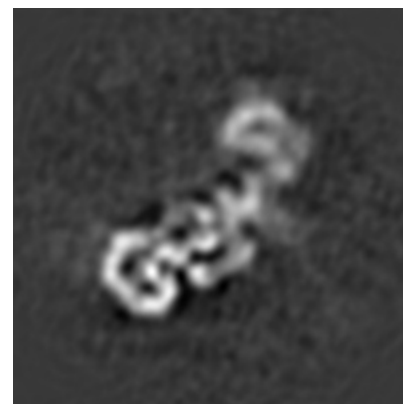
### 6.3.1 Primary map



X Index: 62



Y Index: 51

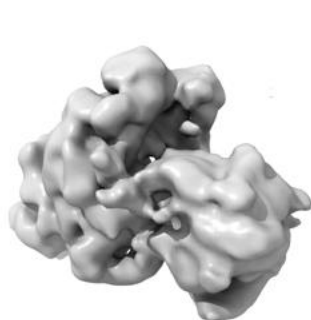


Z Index: 63

The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal surface views [i](#)

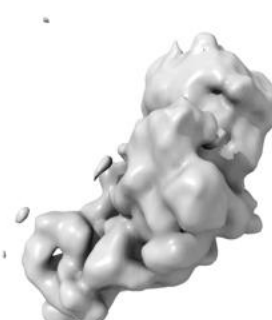
### 6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level - 2.8. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

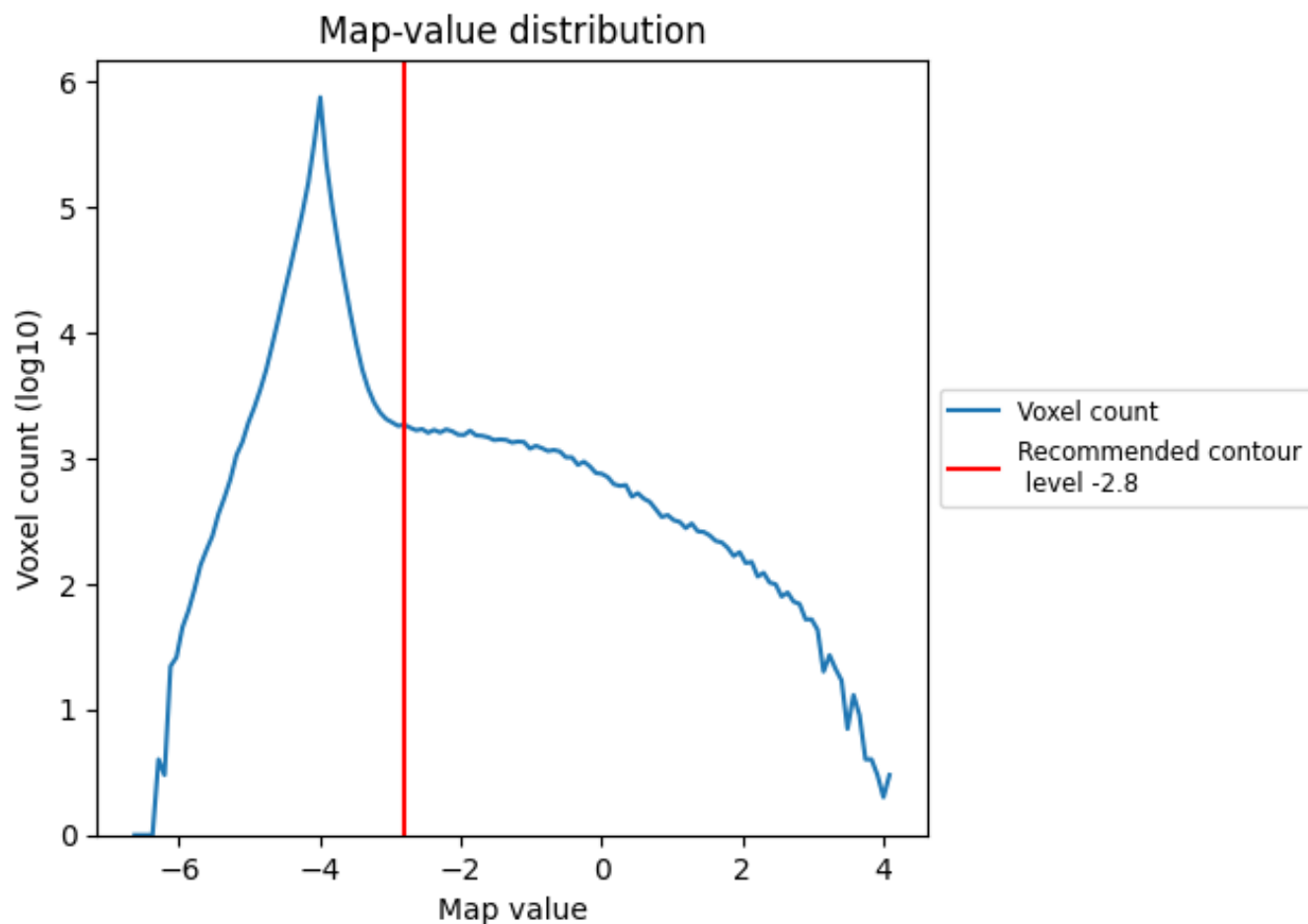
## 6.5 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

## 7 Map analysis [i](#)

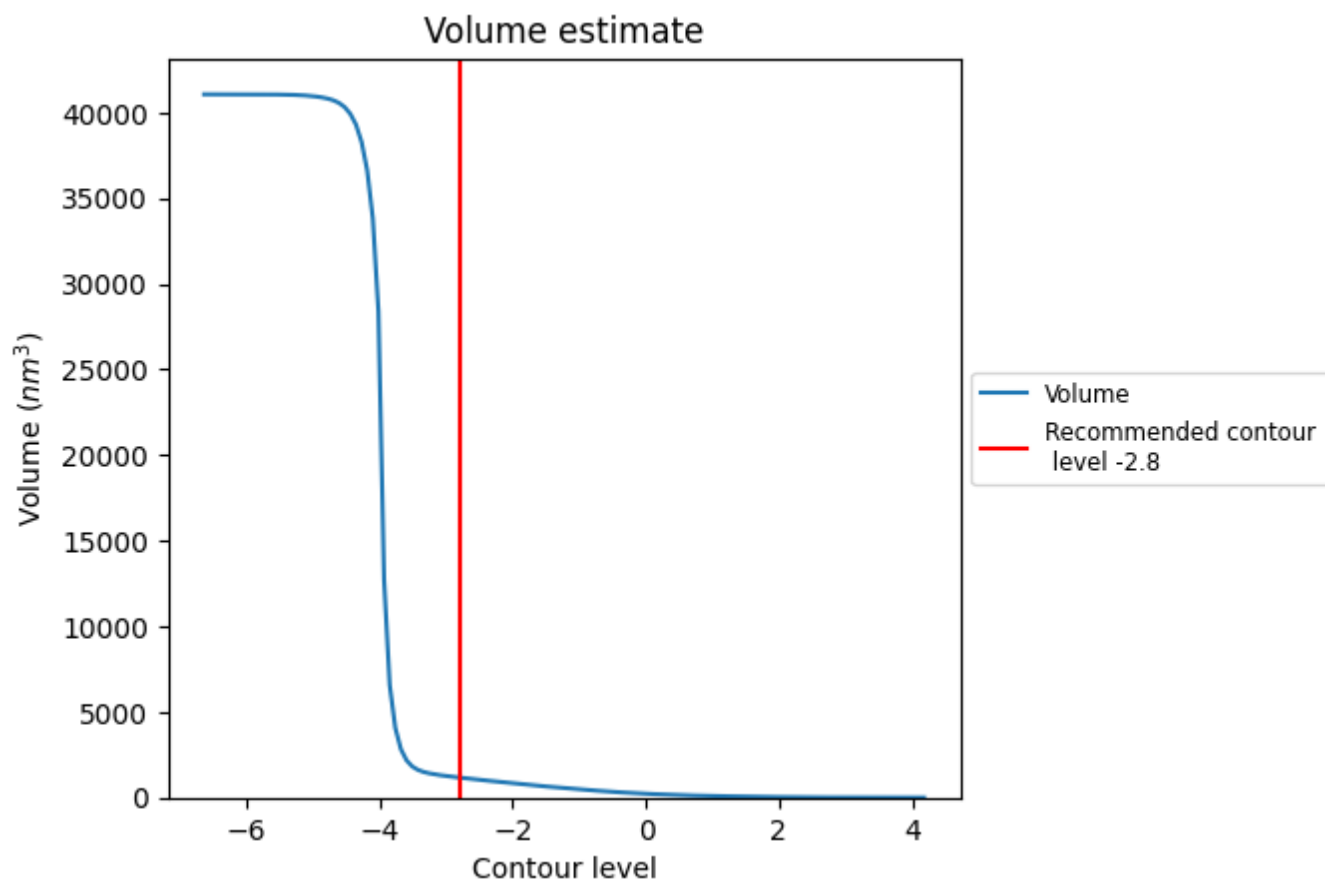
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

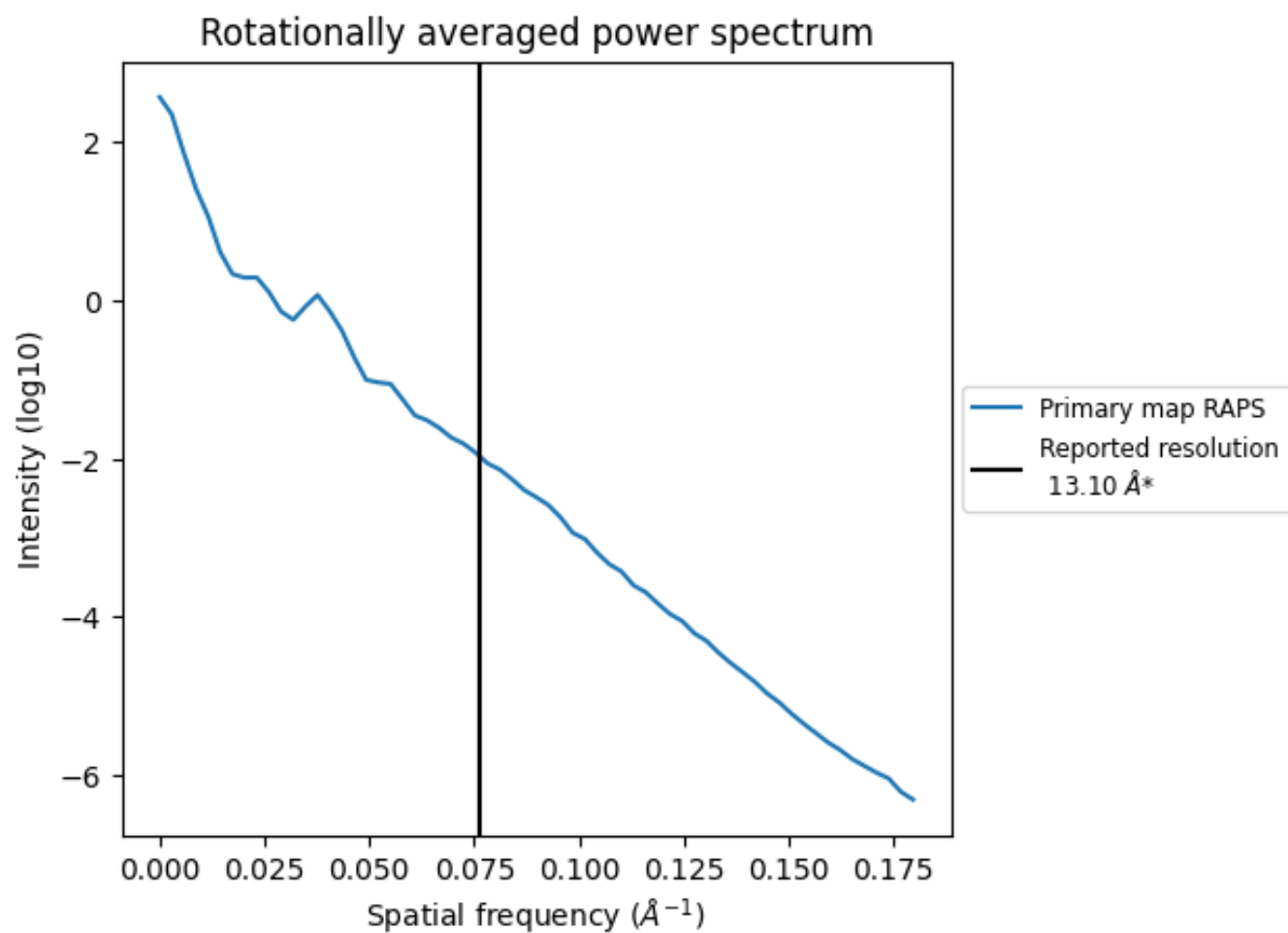
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is  $1168 \text{ nm}^3$ ; this corresponds to an approximate mass of 1055 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

### 7.3 Rotationally averaged power spectrum ⓘ



\*Reported resolution corresponds to spatial frequency of 0.076 Å<sup>-1</sup>

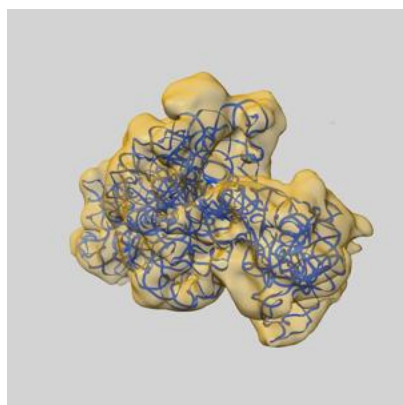
## 8 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.

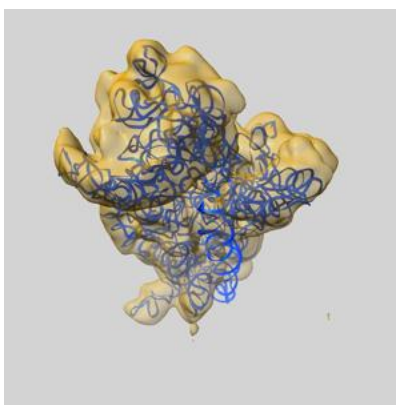
## 9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-5502 and PDB model 3J2A. Per-residue inclusion information can be found in [section 3](#) on [page 4](#).

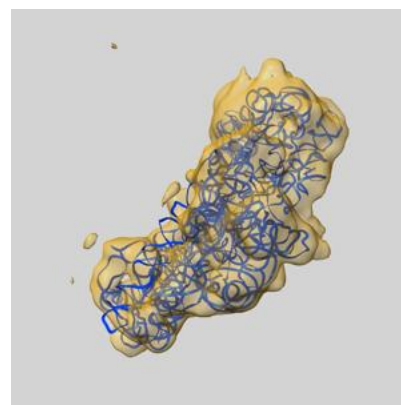
### 9.1 Map-model overlay [i](#)



X



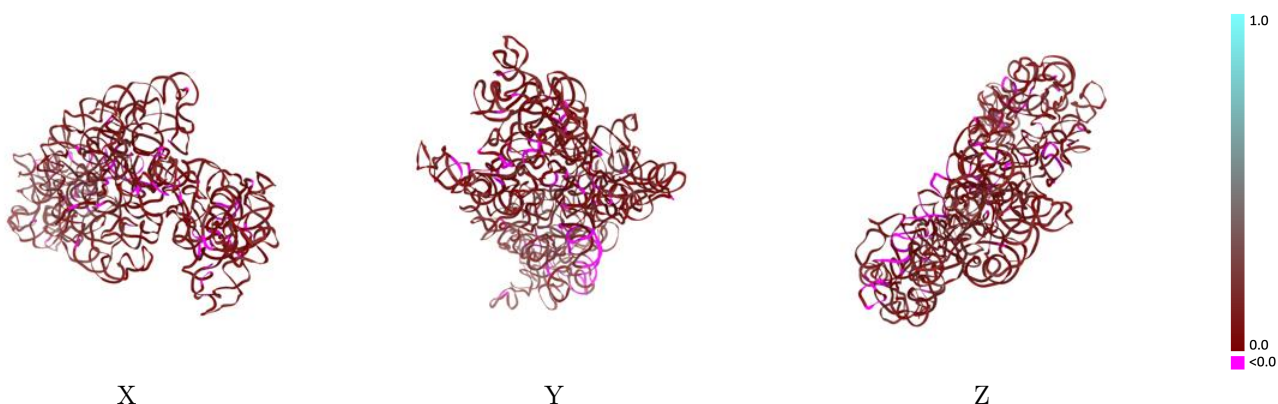
Y



Z

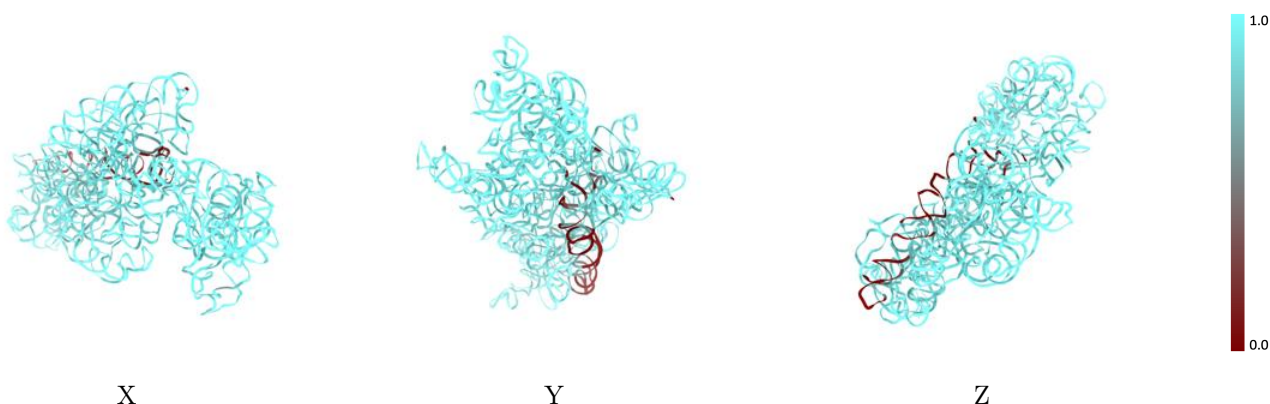
The images above show the 3D surface view of the map at the recommended contour level -2.8 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 9.2 Q-score mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

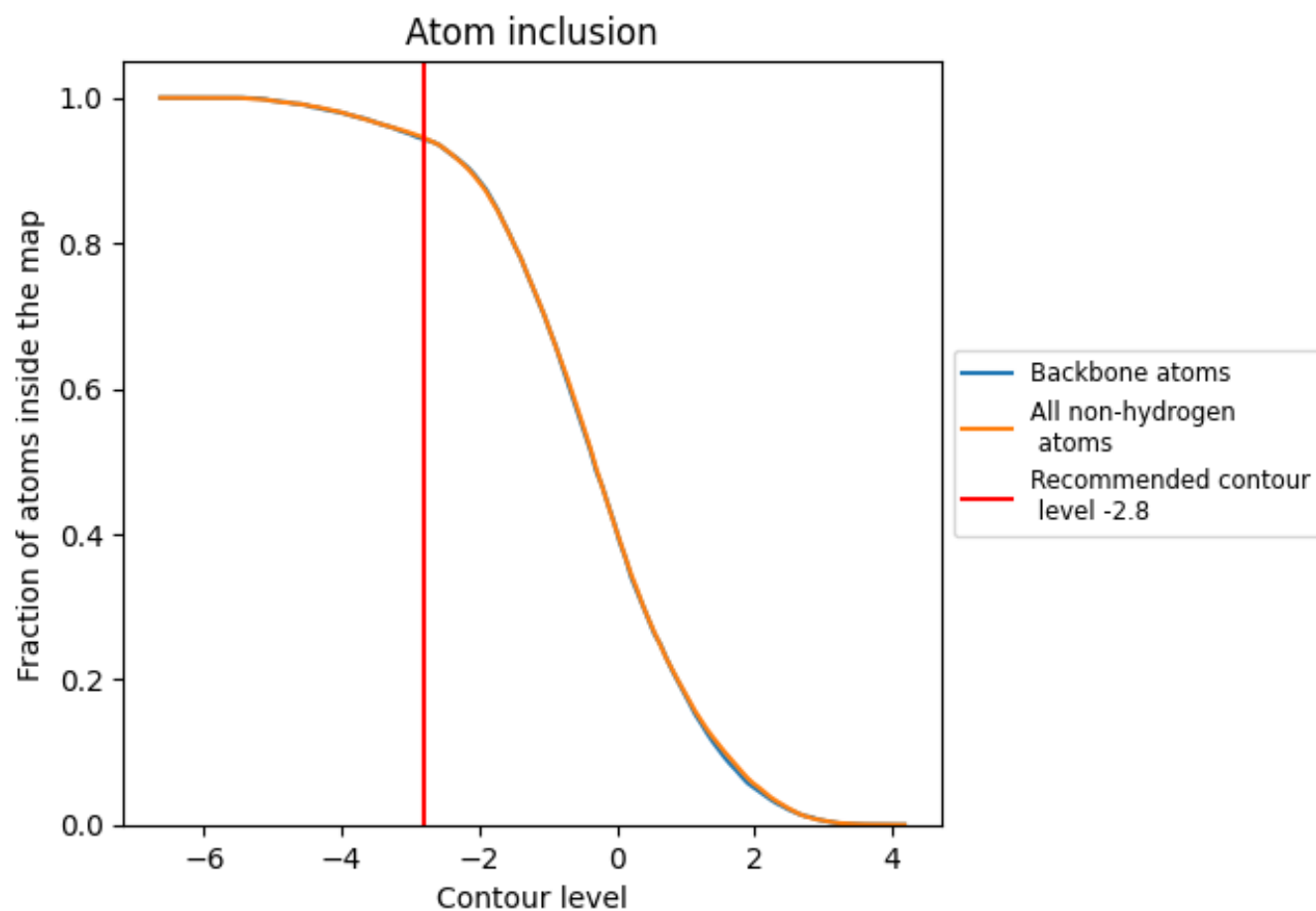
## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (-2.8).



## 9.4 Atom inclusion [i](#)



At the recommended contour level, 94% of all backbone atoms, 94% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (-2.8) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.9448	<div></div> 0.0980
N	<div></div> 0.9447	<div></div> 0.0980

