



Full wwPDB EM Validation Report ⓘ

Dec 12, 2022 – 12:50 PM EST

PDB ID : 3J2B
EMDB ID : EMD-5503
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 : 13.60 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

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>.

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

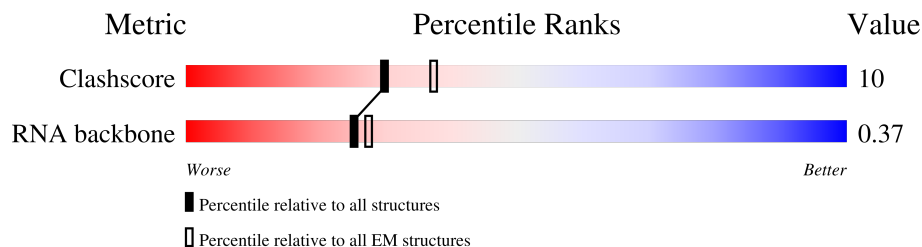
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 13.60 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 ≥ 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 [i](#)

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.

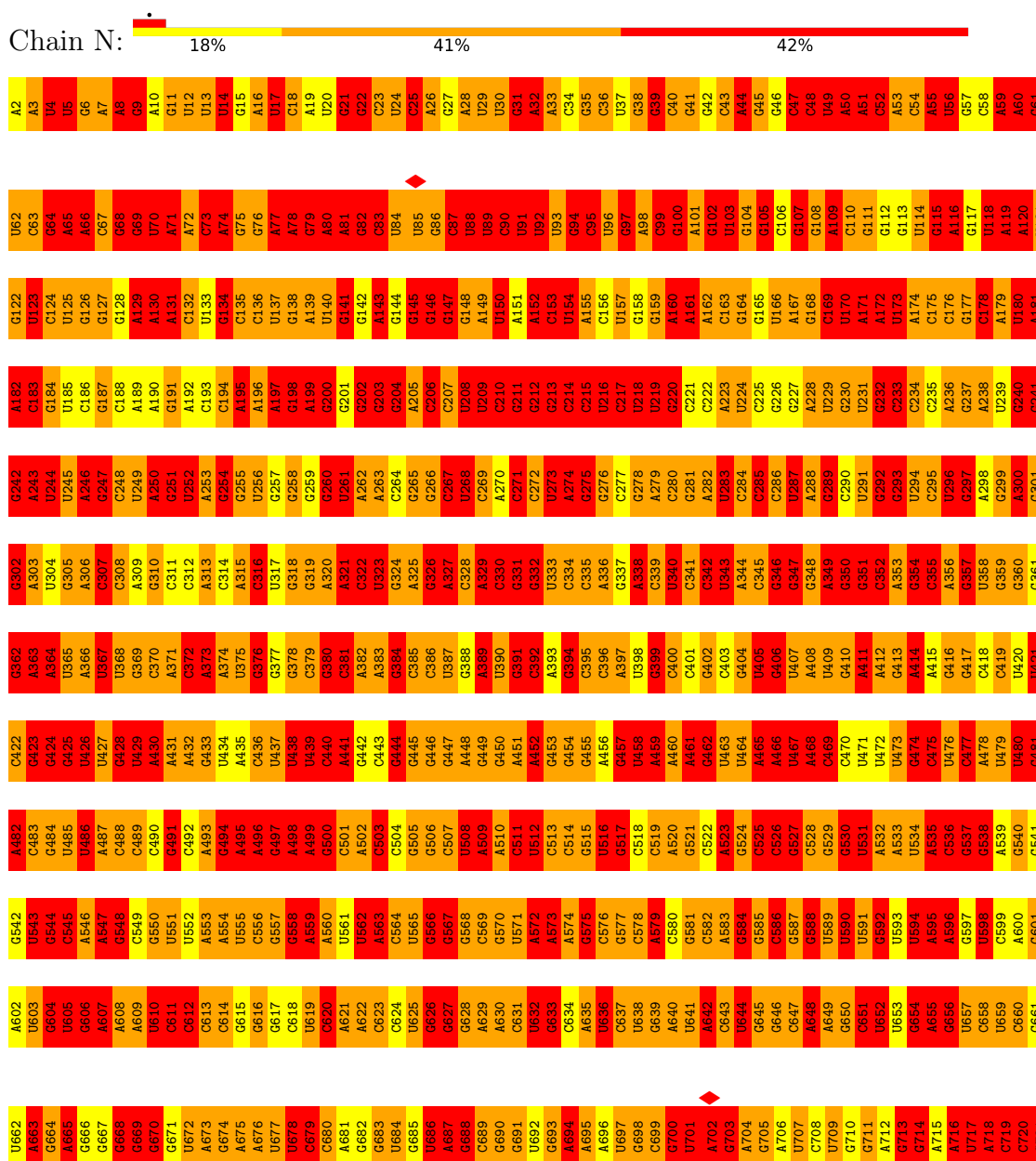
- Molecule 1 is a RNA chain called 16S rRNA.

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	C1262	U1202	G1142	A1082	A1022	C962	G902	U842	A782	G722
A1503	C1443	C1383	C1263	C1203	G1143	U1083	U1023	G963	G903	U843	C783	U723
G1504	U1444	C1384	G1264	A1204	G1144	U1084	G1024	A964	U904	G844	A784	G724
G1505	C1385	C1325	C1265	U1205	A1145	U1085	U1025	U965	U905	A845	G785	G725
U1506	U1445	G1326	G1266	G1206	A1146	U1086	G1026	G966	A906	G846	G786	G726
A1507	A1446	U1327	C1267	G1207	C1147	G1087	C1027	C967	A907	G847	A787	G727
A1508	A1447	C1328	G1268	C1208	U1148	U1088	U1028	A968	A908	C848	U788	A728
C1509	C1448	A1329	A1269	C1209	C1149	G1089	U1029	A969	A909	G849	U789	A729
C1510	C1449	U1330	G1270	C1210	A1150	U1090	U1030	C970	C910	U850	A790	G730
G1511	U1450	G1331	A1271	U1211	A1151	U1091	C1031	G971	U911	G851	G791	G731
U1512	C1332	A1332	G1272	U1212	A1152	A1092	G1032	C972	C912	G852	A792	G732
U1451	U1333	A1333	C1273	A1213	G1153	A1093	G1033	G973	A913	C853	U793	G733
G1514	G1334	C1334	A1274	C1214	G1154	G1094	G1034	A974	A914	U854	A794	G734
G1515	U1335	U1335	A1275	G1215	A1155	U1095	A1035	A975	A915	U855	C785	G735
G1516	C1336	C1336	G1276	A1216	G1156	C1096	A1036	G976	U916	C856	C786	G736
G1517	G1337	G1337	C1277	C1217	A1157	C1097	G1037	G977	U917	C857	C787	G737
A1518	G1338	G1338	G1278	C1218	U1158	C1098	C1038	A978	A918	G858	U788	G738
A1519	A1339	A1339	G1279	A1219	U1159	G1099	G1039	C979	A919	G859	G799	C739
G1520	A1340	U1340	A1280	G1220	G1160	C1100	U1040	C980	U920	G860	G800	U740
C1521	U1341	C1341	C1281	G1221	C1161	A1101	G1041	U981	U921	C861	U801	G741
U1459	C1402	C1402	U1283	C1222	C1162	A1102	A1042	U982	G922	C862	A802	G742
C1522	C1403	G1343	U1284	C1223	A1163	C1103	G1043	A983	C923	U863	G803	A743
G1523	C1404	C1344	C1284	U1224	G1164	G1104	A1044	C984	C924	A864	U804	C744
G1524	C1405	U1345	A1285	A1225	U1165	A1105	G1045	C985	G925	A865	C805	G745
G1525	A1346	A1346	U1286	C1226	G1166	G1106	A1046	U986	G926	C866	C806	G746
U1527	G1347	G1347	A1287	A1227	A1167	C1107	G1047	C987	G927	C867	A807	A747
U1528	U1348	U1348	A1288	C1228	U1168	G1108	G1048	C988	G928	C868	C808	G748
G1529	A1349	A1349	A1289	A1229	A1169	C1109	U1049	U989	G929	G869	G809	A749
G1530	C1409	G1290	G1290	C1230	A1170	A1110	G1050	C990	C930	U870	C810	G750
A1531	A1410	U1351	U1291	G1231	A1171	A1111	C1051	U991	C931	U871	C811	U751
C1467	C1411	C1352	U1292	U1232	U1172	C1112	U1052	U992	G932	A872	G812	G752
A1468	C1412	G1353	C1293	G1233	U1173	C1113	G1053	G993	C933	C873	U813	A753
C1469	U1354	U1354	G1294	C1234	G1174	C1114	C1054	A994	G934	A874	A814	G754
U1470	U1414	G1355	U1295	U1235	G1175	U1115	A1055	C995	A935	C875	A815	G755
U1471	G1415	G1356	C1296	A1236	A1176	U1116	U1056	A996	G936	C876	C816	C756
G1472	G1416	A1357	G1297	C1237	G1177	A1117	G1057	U997	A937	G877	U757	G757
G1473	G1417	U1358	U1298	A1238	G1178	U1118	C1058	C998	A938	A878	G818	C758
U1474	A1418	C1359	A1299	A1239	A1179	C1119	C1059	C999	G939	C879	A819	A759
G1475	G1419	A1360	G1300	U1240	G1180	C1120	U1060	C1000	C940	C880	U820	G760
A1476	U1420	A1361	U1301	G1241	G1181	U1121	G1061	C1001	G941	C881	G821	G761
U1477	G1421	A1362	C1302	G1242	U1182	U1122	U1062	G1002	G942	C882	U822	U762
U1478	G1422	A1363	C1303	C1243	U1183	U1123	C1063	G1003	U943	C883	C823	G763
C1479	G1423	U1364	G1304	G1244	G1184	G1124	G1064	A1004	G944	U884	G824	C764
A1480	U1424	G1365	A1305	C1245	G1185	U1125	U1065	A1005	G945	G885	A825	G765
U1481	C1367	C1366	A1306	A1246	G1186	U1126	C1066	G1006	A946	C886	C826	A766
G1482	G1369	U1307	U1307	U1247	G1187	G1127	A1067	U1007	G947	C887	U827	A767
G1483	G1370	G1309	A1248	C1249	A1188	C1128	G1068	G888	C948	G888	U828	A768
C1484	G1371	G1310	A1249	A1250	U1189	C1129	C1069	A889	A949	A889	G829	G769
U1485	A1372	A1311	A1251	A1251	G1190	A1130	U1070	G890	U950	G890	G830	C770
G1486	U1373	U1312	A1252	G1253	A1191	G1131	C1071	U891	G951	U891	A831	G771
C1487	A1374	G1313	G1254	A1254	C1192	C1132	G1072	A892	U952	A892	G832	U772
G1488	U1375	U1314	G1255	G1255	U1193	G1133	U1073	C893	G953	C893	G833	G773
G1489	G1376	C1315	A1256	A1256	U1194	G1134	G1074	G894	G954	G894	U834	G774
U1490	U1377	U1316	A1257	A1257	C1195	U1135	U1075	G895	U955	G895	U835	G775
G1491	A1378	G1317	C1317	C1317	U1196	A1136	U1076	G896	U956	C896	G836	G776
A1492	A1379	C1318	A1258	A1258	A1197	C1137	G1077	U897	U957	C897	U837	A777
A1493	U1380	A1319	G1259	G1259	G1198	G1138	G1078	C898	A958	G898	G838	G778
G1494	U1381	C1320	C1260	C1260	U1199	G1139	G1079	C899	A959	C899	C839	C779
U1495	A1431	A1321	A1261	A1261	C1200	C1140	A1080	A900	U960	C899	U760	A781
C1496	G1432	U1381			A1201	C1141	A1081		U961	A901		
G1497	A1433											
U1498	A1434											
A1499	A1435											
C1500	A1436											
C1501	A1437											
	G1438											
	G1439											
	U1440											
	A1441											

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	30892	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	5.345	Depositor
Minimum map value	-7.752	Depositor
Average map value	-4.176	Depositor
Map value standard deviation	0.605	Depositor
Recommended contour level	-2.8	Depositor
Map size (\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 (\AA)	2.76, 2.76, 2.76	Depositor

5 Model quality

5.1 Standard geometry

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	3.50	5275/36831 (14.3%)	3.96	9425/57458 (16.4%)

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	935

All (5275) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	205	A	N7-C5	-20.49	1.26	1.39
1	N	499	A	N7-C5	-19.93	1.27	1.39
1	N	923	A	N7-C5	-19.93	1.27	1.39
1	N	3	A	N3-C4	-18.54	1.23	1.34
1	N	549	C	N3-C4	17.73	1.46	1.33
1	N	943	U	C2-N3	17.18	1.49	1.37
1	N	227	G	N7-C5	-17.01	1.29	1.39
1	N	452	A	N7-C5	-16.84	1.29	1.39
1	N	433	G	N7-C5	-16.73	1.29	1.39
1	N	1479	C	N1-C6	16.69	1.47	1.37
1	N	36	C	N1-C6	16.67	1.47	1.37
1	N	179	A	C6-N6	16.66	1.47	1.33
1	N	1175	G	N9-C8	16.45	1.49	1.37
1	N	1014	A	N7-C5	-16.13	1.29	1.39
1	N	929	G	C6-N1	16.09	1.50	1.39
1	N	130	A	N9-C4	-15.90	1.28	1.37
1	N	982	U	C2-N3	15.82	1.48	1.37
1	N	104	G	N7-C5	-15.74	1.29	1.39
1	N	417	G	N7-C5	-15.14	1.30	1.39
1	N	120	A	C6-N1	14.94	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	282	A	N7-C5	-14.90	1.30	1.39
1	N	1343	G	N7-C5	-14.79	1.30	1.39
1	N	1396	A	N9-C4	-14.73	1.29	1.37
1	N	592	G	N7-C5	-14.72	1.30	1.39
1	N	716	A	N7-C5	-14.57	1.30	1.39
1	N	728	A	N7-C5	-14.55	1.30	1.39
1	N	1384	C	N1-C6	14.34	1.45	1.37
1	N	193	C	N3-C4	14.19	1.43	1.33
1	N	731	G	N1-C2	14.10	1.49	1.37
1	N	1087	G	C2-N3	14.10	1.44	1.32
1	N	119	A	N7-C5	-14.03	1.30	1.39
1	N	351	G	N7-C5	-14.01	1.30	1.39
1	N	76	G	C8-N7	-13.95	1.22	1.30
1	N	841	C	N1-C6	13.92	1.45	1.37
1	N	873	A	N9-C4	-13.90	1.29	1.37
1	N	528	C	N1-C6	13.89	1.45	1.37
1	N	1468	A	N7-C5	-13.83	1.30	1.39
1	N	1055	A	N3-C4	-13.79	1.26	1.34
1	N	155	A	N7-C5	-13.79	1.30	1.39
1	N	958	A	N3-C4	13.76	1.43	1.34
1	N	558	G	C2-N3	13.75	1.43	1.32
1	N	570	G	N9-C8	-13.74	1.28	1.37
1	N	798	U	C5'-C4'	13.73	1.67	1.51
1	N	1270	G	N7-C5	-13.72	1.31	1.39
1	N	613	C	N3-C4	13.69	1.43	1.33
1	N	761	G	N7-C5	-13.69	1.31	1.39
1	N	236	A	N7-C5	13.66	1.47	1.39
1	N	433	G	C2-N3	13.65	1.43	1.32
1	N	1130	A	N7-C5	-13.62	1.31	1.39
1	N	1242	G	N7-C5	-13.58	1.31	1.39
1	N	80	A	C8-N7	-13.57	1.22	1.31
1	N	517	G	C6-N1	13.56	1.49	1.39
1	N	331	G	C8-N7	-13.54	1.22	1.30
1	N	315	A	N7-C5	-13.49	1.31	1.39
1	N	453	G	N1-C2	13.49	1.48	1.37
1	N	521	G	N9-C8	13.46	1.47	1.37
1	N	714	G	C2-N3	13.45	1.43	1.32
1	N	1446	A	N7-C5	-13.44	1.31	1.39
1	N	1293	C	N1-C6	13.39	1.45	1.37
1	N	645	G	N7-C5	-13.39	1.31	1.39
1	N	859	G	N1-C2	13.38	1.48	1.37
1	N	329	A	P-O5'	-13.38	1.46	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	737	C	P-O5'	-13.38	1.46	1.59
1	N	681	A	C6-N6	13.31	1.44	1.33
1	N	2	A	N7-C5	-13.26	1.31	1.39
1	N	730	G	C2-N3	13.26	1.43	1.32
1	N	255	G	C8-N7	-13.24	1.23	1.30
1	N	241	G	C8-N7	13.19	1.38	1.30
1	N	53	A	N7-C5	-13.18	1.31	1.39
1	N	442	G	N9-C4	-13.12	1.27	1.38
1	N	1218	C	N1-C6	13.12	1.45	1.37
1	N	940	C	N1-C6	13.12	1.45	1.37
1	N	397	A	N7-C5	-13.11	1.31	1.39
1	N	642	A	N7-C5	-13.10	1.31	1.39
1	N	45	G	C6-N1	13.10	1.48	1.39
1	N	133	U	C2-N3	13.09	1.47	1.37
1	N	1462	C	N1-C6	13.04	1.45	1.37
1	N	616	G	C2-N3	13.02	1.43	1.32
1	N	358	U	N3-C4	12.93	1.50	1.38
1	N	182	A	N7-C5	-12.91	1.31	1.39
1	N	1513	A	N7-C5	-12.91	1.31	1.39
1	N	1181	G	N1-C2	12.87	1.48	1.37
1	N	1308	U	C2-N3	12.84	1.46	1.37
1	N	685	G	N7-C5	-12.84	1.31	1.39
1	N	574	A	C6-N6	12.79	1.44	1.33
1	N	987	G	C6-N1	12.78	1.48	1.39
1	N	1103	C	N1-C6	12.78	1.44	1.37
1	N	397	A	C6-N1	12.77	1.44	1.35
1	N	392	C	N1-C6	12.77	1.44	1.37
1	N	1196	A	N7-C5	-12.74	1.31	1.39
1	N	221	C	C4-N4	12.73	1.45	1.33
1	N	341	C	N1-C6	-12.71	1.29	1.37
1	N	773	G	N3-C4	12.70	1.44	1.35
1	N	802	A	N7-C5	-12.69	1.31	1.39
1	N	1459	G	C2-N3	12.68	1.42	1.32
1	N	179	A	N7-C5	-12.68	1.31	1.39
1	N	846	G	N3-C4	12.64	1.44	1.35
1	N	1278	G	N9-C8	-12.63	1.29	1.37
1	N	1504	G	C2-N3	12.62	1.42	1.32
1	N	495	A	N7-C5	-12.61	1.31	1.39
1	N	15	G	N9-C8	-12.60	1.29	1.37
1	N	477	C	N1-C6	12.57	1.44	1.37
1	N	604	G	C5-C4	-12.57	1.29	1.38
1	N	144	G	C8-N7	-12.57	1.23	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1364	U	C2-N3	12.54	1.46	1.37
1	N	509	A	N7-C5	-12.52	1.31	1.39
1	N	497	G	C6-N1	12.46	1.48	1.39
1	N	1209	C	N1-C6	12.46	1.44	1.37
1	N	409	U	C2-N3	12.42	1.46	1.37
1	N	1316	G	N9-C4	-12.41	1.28	1.38
1	N	78	A	N3-C4	12.41	1.42	1.34
1	N	300	A	N7-C5	-12.40	1.31	1.39
1	N	1146	A	N7-C5	-12.40	1.31	1.39
1	N	1094	G	N1-C2	12.39	1.47	1.37
1	N	1418	A	N7-C5	-12.39	1.31	1.39
1	N	934	C	N1-C6	12.36	1.44	1.37
1	N	668	G	N9-C4	-12.35	1.28	1.38
1	N	722	G	C6-N1	12.34	1.48	1.39
1	N	1352	C	C2'-C1'	-12.33	1.39	1.53
1	N	1128	C	N3-C4	12.32	1.42	1.33
1	N	1475	G	C6-N1	12.32	1.48	1.39
1	N	768	A	N7-C5	-12.32	1.31	1.39
1	N	760	G	N3-C4	-12.31	1.26	1.35
1	N	1291	U	C2-N3	12.29	1.46	1.37
1	N	475	C	N3-C4	12.25	1.42	1.33
1	N	669	G	N7-C5	-12.25	1.31	1.39
1	N	1408	A	N7-C5	-12.24	1.31	1.39
1	N	1461	G	C2-N3	12.23	1.42	1.32
1	N	1229	A	C6-N6	12.22	1.43	1.33
1	N	1360	A	C6-N1	12.20	1.44	1.35
1	N	491	G	N7-C5	-12.20	1.31	1.39
1	N	1081	A	C6-N6	12.19	1.43	1.33
1	N	339	C	C4-N4	12.18	1.45	1.33
1	N	807	A	N7-C5	-12.18	1.31	1.39
1	N	777	A	N7-C5	-12.16	1.31	1.39
1	N	141	G	N9-C4	-12.13	1.28	1.38
1	N	648	A	N3-C4	-12.12	1.27	1.34
1	N	1323	G	N3-C4	-12.10	1.26	1.35
1	N	743	A	C6-N1	12.10	1.44	1.35
1	N	1216	A	N9-C4	12.08	1.45	1.37
1	N	388	G	N7-C5	-12.07	1.32	1.39
1	N	431	A	N7-C5	-12.07	1.32	1.39
1	N	277	C	N3-C4	12.06	1.42	1.33
1	N	150	U	C2-N3	12.05	1.46	1.37
1	N	624	C	N1-C6	12.02	1.44	1.37
1	N	444	G	N7-C5	12.02	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	615	G	N7-C5	-12.00	1.32	1.39
1	N	1068	G	C8-N7	-11.99	1.23	1.30
1	N	1272	G	N1-C2	11.97	1.47	1.37
1	N	520	A	N7-C5	-11.96	1.32	1.39
1	N	181	A	C8-N7	-11.94	1.23	1.31
1	N	148	G	N7-C5	-11.94	1.32	1.39
1	N	666	G	N7-C5	11.93	1.46	1.39
1	N	1142	G	C8-N7	-11.91	1.23	1.30
1	N	42	G	N3-C4	-11.91	1.27	1.35
1	N	787	A	N7-C5	-11.90	1.32	1.39
1	N	1246	A	N3-C4	-11.89	1.27	1.34
1	N	982	U	P-O5'	-11.88	1.47	1.59
1	N	1310	G	C2-N3	11.85	1.42	1.32
1	N	656	G	N1-C2	11.84	1.47	1.37
1	N	989	U	C2-N3	11.84	1.46	1.37
1	N	329	A	N7-C5	-11.84	1.32	1.39
1	N	1243	C	N3-C4	11.83	1.42	1.33
1	N	1068	G	N7-C5	-11.81	1.32	1.39
1	N	44	A	N9-C4	11.80	1.45	1.37
1	N	363	A	N3-C4	-11.80	1.27	1.34
1	N	1346	A	N3-C4	-11.79	1.27	1.34
1	N	493	A	C6-N6	11.78	1.43	1.33
1	N	1178	G	C6-N1	11.78	1.47	1.39
1	N	1416	G	C8-N7	-11.78	1.23	1.30
1	N	191	G	N3-C4	-11.76	1.27	1.35
1	N	796	C	N1-C6	11.75	1.44	1.37
1	N	1326	U	C2-N3	11.75	1.46	1.37
1	N	177	G	N3-C4	-11.74	1.27	1.35
1	N	319	G	N9-C8	11.72	1.46	1.37
1	N	693	G	C2-N3	11.72	1.42	1.32
1	N	493	A	N9-C4	-11.70	1.30	1.37
1	N	828	U	N3-C4	11.66	1.49	1.38
1	N	860	A	N9-C4	-11.66	1.30	1.37
1	N	769	G	P-O5'	-11.63	1.48	1.59
1	N	883	C	P-O5'	-11.62	1.48	1.59
1	N	926	G	C2-N3	11.60	1.42	1.32
1	N	1432	G	N7-C5	11.60	1.46	1.39
1	N	633	G	N9-C8	11.60	1.46	1.37
1	N	1170	A	N7-C5	-11.60	1.32	1.39
1	N	831	A	N9-C4	-11.59	1.30	1.37
1	N	1154	G	N9-C8	11.59	1.46	1.37
1	N	1240	U	N3-C4	11.59	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1142	G	N3-C4	-11.56	1.27	1.35
1	N	1035	A	C6-N6	11.53	1.43	1.33
1	N	510	A	N9-C4	-11.52	1.30	1.37
1	N	1343	G	N9-C4	-11.51	1.28	1.38
1	N	1285	A	N7-C5	-11.50	1.32	1.39
1	N	52	C	N3-C4	11.49	1.42	1.33
1	N	1269	A	N9-C4	11.48	1.44	1.37
1	N	120	A	C4'-C3'	11.48	1.65	1.53
1	N	257	G	N9-C8	11.47	1.45	1.37
1	N	999	C	N1-C6	-11.47	1.30	1.37
1	N	852	G	N7-C5	-11.46	1.32	1.39
1	N	16	A	N9-C4	-11.46	1.30	1.37
1	N	459	A	N3-C4	-11.45	1.27	1.34
1	N	1441	A	N9-C4	11.44	1.44	1.37
1	N	1473	G	N1-C2	11.41	1.46	1.37
1	N	858	G	N7-C5	-11.41	1.32	1.39
1	N	1156	G	C2-N3	11.41	1.41	1.32
1	N	1422	G	N1-C2	11.41	1.46	1.37
1	N	996	A	N9-C4	-11.40	1.31	1.37
1	N	1147	C	N3-C4	11.40	1.42	1.33
1	N	1397	C	N3-C4	11.40	1.42	1.33
1	N	1170	A	N3-C4	-11.38	1.28	1.34
1	N	1241	G	C2-N3	11.38	1.41	1.32
1	N	415	A	C2'-C1'	-11.38	1.40	1.53
1	N	1372	U	N1-C2	11.37	1.48	1.38
1	N	1143	G	C6-N1	11.35	1.47	1.39
1	N	980	C	C4-N4	11.34	1.44	1.33
1	N	451	A	C8-N7	-11.32	1.23	1.31
1	N	628	G	O4'-C1'	11.32	1.56	1.41
1	N	581	G	N7-C5	-11.32	1.32	1.39
1	N	498	A	N7-C5	-11.31	1.32	1.39
1	N	878	A	N3-C4	11.31	1.41	1.34
1	N	1413	A	C8-N7	-11.31	1.23	1.31
1	N	276	G	C5-C4	11.30	1.46	1.38
1	N	541	G	N1-C2	11.30	1.46	1.37
1	N	1219	A	P-O5'	-11.30	1.48	1.59
1	N	1208	C	N1-C6	11.26	1.44	1.37
1	N	1032	G	C2-N3	11.26	1.41	1.32
1	N	466	A	N7-C5	-11.25	1.32	1.39
1	N	1245	C	N3-C4	11.25	1.41	1.33
1	N	54	C	N1-C6	11.25	1.43	1.37
1	N	1507	A	N7-C5	-11.24	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1452	C	N3-C4	11.23	1.41	1.33
1	N	1112	C	N3-C4	11.23	1.41	1.33
1	N	454	G	C2-N3	11.22	1.41	1.32
1	N	874	G	C6-N1	11.21	1.47	1.39
1	N	259	G	N7-C5	-11.21	1.32	1.39
1	N	1534	A	N7-C5	-11.21	1.32	1.39
1	N	52	C	N1-C6	11.19	1.43	1.37
1	N	1285	A	C6-N1	11.19	1.43	1.35
1	N	824	G	C5-C4	11.19	1.46	1.38
1	N	172	A	N9-C4	-11.18	1.31	1.37
1	N	1176	A	N9-C4	-11.18	1.31	1.37
1	N	721	G	C6-N1	11.17	1.47	1.39
1	N	1262	C	C2'-C1'	-11.16	1.41	1.53
1	N	809	G	C6-N1	11.15	1.47	1.39
1	N	37	U	C2-N3	11.13	1.45	1.37
1	N	671	G	N7-C5	-11.12	1.32	1.39
1	N	1020	G	N1-C2	11.11	1.46	1.37
1	N	693	G	N7-C5	-11.10	1.32	1.39
1	N	1238	A	N9-C4	-11.10	1.31	1.37
1	N	1009	U	N1-C6	11.09	1.48	1.38
1	N	33	A	N7-C5	-11.08	1.32	1.39
1	N	1261	A	N9-C4	-11.07	1.31	1.37
1	N	1507	A	C6-N6	11.06	1.42	1.33
1	N	33	A	C5-C4	11.05	1.46	1.38
1	N	944	G	N7-C5	-11.05	1.32	1.39
1	N	1027	C	N3-C4	11.04	1.41	1.33
1	N	145	G	C6-N1	11.04	1.47	1.39
1	N	928	G	C6-N1	11.03	1.47	1.39
1	N	217	C	N3-C4	11.01	1.41	1.33
1	N	270	A	N7-C5	-11.00	1.32	1.39
1	N	331	G	N1-C2	10.99	1.46	1.37
1	N	444	G	C2-N3	10.98	1.41	1.32
1	N	945	G	C8-N7	-10.98	1.24	1.30
1	N	499	A	C6-N6	10.97	1.42	1.33
1	N	638	U	C2-N3	10.96	1.45	1.37
1	N	975	A	P-O5'	-10.95	1.48	1.59
1	N	1421	G	C8-N7	-10.95	1.24	1.30
1	N	668	G	N7-C5	-10.93	1.32	1.39
1	N	601	G	N3-C4	-10.93	1.27	1.35
1	N	1246	A	C6-N6	10.93	1.42	1.33
1	N	1058	G	N7-C5	-10.92	1.32	1.39
1	N	1358	U	C2-N3	10.92	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	107	G	C2-N3	10.92	1.41	1.32
1	N	1149	C	N3-C4	10.92	1.41	1.33
1	N	94	G	C6-N1	10.91	1.47	1.39
1	N	318	G	C6-N1	10.91	1.47	1.39
1	N	1370	G	C6-N1	10.91	1.47	1.39
1	N	423	G	C8-N7	10.90	1.37	1.30
1	N	1510	C	N3-C4	10.90	1.41	1.33
1	N	484	G	C2'-C1'	-10.89	1.41	1.53
1	N	1094	G	C8-N7	10.87	1.37	1.30
1	N	1255	G	N9-C4	-10.86	1.29	1.38
1	N	332	G	N7-C5	-10.86	1.32	1.39
1	N	419	C	N3-C4	10.86	1.41	1.33
1	N	1140	C	C5'-C4'	10.85	1.64	1.51
1	N	900	A	C6-N6	10.84	1.42	1.33
1	N	790	A	N7-C5	-10.84	1.32	1.39
1	N	1448	C	N3-C4	10.84	1.41	1.33
1	N	127	G	N3-C4	-10.84	1.27	1.35
1	N	1494	G	N1-C2	10.82	1.46	1.37
1	N	1429	A	N7-C5	-10.82	1.32	1.39
1	N	663	A	N9-C4	-10.82	1.31	1.37
1	N	109	A	N9-C8	-10.81	1.29	1.37
1	N	1242	G	C2-N3	10.81	1.41	1.32
1	N	1428	A	C6-N6	10.80	1.42	1.33
1	N	450	G	N9-C8	10.80	1.45	1.37
1	N	1473	G	N9-C4	-10.79	1.29	1.38
1	N	446	G	C2-N3	10.77	1.41	1.32
1	N	691	G	C2-N3	10.77	1.41	1.32
1	N	1094	G	N9-C8	-10.77	1.30	1.37
1	N	466	A	C5-C4	10.76	1.46	1.38
1	N	894	G	N7-C5	-10.76	1.32	1.39
1	N	654	G	N7-C5	-10.76	1.32	1.39
1	N	268	U	C2-N3	10.76	1.45	1.37
1	N	1130	A	C6-N1	10.75	1.43	1.35
1	N	303	A	N7-C5	-10.74	1.32	1.39
1	N	250	A	C6-N6	10.73	1.42	1.33
1	N	68	G	N9-C8	-10.71	1.30	1.37
1	N	357	G	N9-C8	10.70	1.45	1.37
1	N	68	G	N7-C5	-10.68	1.32	1.39
1	N	674	G	C2-N3	10.67	1.41	1.32
1	N	1266	G	C6-N1	10.67	1.47	1.39
1	N	1124	G	N9-C8	10.66	1.45	1.37
1	N	1205	U	C2'-C1'	-10.66	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1217	C	N1-C6	10.66	1.43	1.37
1	N	28	A	C6-N6	10.66	1.42	1.33
1	N	1018	G	C5-C4	-10.65	1.30	1.38
1	N	1511	G	C6-N1	10.65	1.47	1.39
1	N	1314	C	N1-C6	10.64	1.43	1.37
1	N	399	G	C2-N3	10.64	1.41	1.32
1	N	1203	C	N3-C4	10.63	1.41	1.33
1	N	99	C	N3-C4	10.63	1.41	1.33
1	N	1332	A	N7-C5	-10.63	1.32	1.39
1	N	6	G	C6-N1	10.60	1.47	1.39
1	N	369	G	C6-N1	10.60	1.47	1.39
1	N	865	A	N3-C4	-10.58	1.28	1.34
1	N	786	G	N1-C2	10.57	1.46	1.37
1	N	1512	U	C2-N3	10.57	1.45	1.37
1	N	948	C	N1-C6	10.56	1.43	1.37
1	N	1409	C	N3-C4	10.56	1.41	1.33
1	N	877	G	N9-C8	10.55	1.45	1.37
1	N	57	G	N7-C5	-10.54	1.32	1.39
1	N	399	G	N7-C5	-10.54	1.32	1.39
1	N	1375	A	P-O5'	-10.54	1.49	1.59
1	N	319	G	C8-N7	-10.54	1.24	1.30
1	N	1291	U	P-O5'	-10.54	1.49	1.59
1	N	522	C	N3-C4	10.53	1.41	1.33
1	N	1264	U	C2-N3	10.53	1.45	1.37
1	N	1162	C	C4'-C3'	10.52	1.64	1.53
1	N	107	G	C8-N7	-10.52	1.24	1.30
1	N	1096	C	N1-C6	10.51	1.43	1.37
1	N	448	A	N7-C5	-10.50	1.32	1.39
1	N	1272	G	C6-N1	10.47	1.46	1.39
1	N	1305	G	C6-N1	10.46	1.46	1.39
1	N	851	G	N7-C5	-10.46	1.32	1.39
1	N	1388	C	C4-N4	10.46	1.43	1.33
1	N	1162	C	C2'-C1'	-10.45	1.41	1.53
1	N	428	G	C2-N3	10.44	1.41	1.32
1	N	1317	C	N3-C4	10.44	1.41	1.33
1	N	423	G	C4'-C3'	-10.44	1.41	1.53
1	N	1483	A	C8-N7	-10.41	1.24	1.31
1	N	166	U	C2-N3	10.41	1.45	1.37
1	N	189	A	N3-C4	-10.41	1.28	1.34
1	N	372	C	N3-C4	10.40	1.41	1.33
1	N	1289	A	N3-C4	-10.40	1.28	1.34
1	N	592	G	C8-N7	10.40	1.37	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1216	A	C4'-C3'	-10.39	1.41	1.53
1	N	514	C	C5'-C4'	10.39	1.63	1.51
1	N	453	G	C2-N3	10.38	1.41	1.32
1	N	1268	G	N7-C5	-10.38	1.33	1.39
1	N	1077	G	N1-C2	10.37	1.46	1.37
1	N	1060	U	C2-N3	10.37	1.45	1.37
1	N	532	A	N9-C4	10.36	1.44	1.37
1	N	1398	A	C6-N6	10.37	1.42	1.33
1	N	778	G	N9-C8	-10.36	1.30	1.37
1	N	1097	C	N1-C6	10.36	1.43	1.37
1	N	1432	G	C2'-C1'	-10.36	1.42	1.53
1	N	1392	G	C2-N2	10.36	1.45	1.34
1	N	713	G	N7-C5	-10.34	1.33	1.39
1	N	935	A	N7-C5	-10.34	1.33	1.39
1	N	546	A	C6-N6	10.34	1.42	1.33
1	N	610	U	C4-C5	10.31	1.52	1.43
1	N	257	G	C5-C4	10.30	1.45	1.38
1	N	132	C	N3-C4	10.29	1.41	1.33
1	N	178	C	P-O5'	-10.29	1.49	1.59
1	N	444	G	C8-N7	-10.29	1.24	1.30
1	N	254	G	N7-C5	-10.29	1.33	1.39
1	N	556	C	C2'-C1'	-10.27	1.42	1.53
1	N	553	A	N7-C5	-10.27	1.33	1.39
1	N	767	A	C6-N6	10.27	1.42	1.33
1	N	1201	A	C8-N7	10.27	1.38	1.31
1	N	162	A	N7-C5	-10.26	1.33	1.39
1	N	1058	G	C5-C4	10.26	1.45	1.38
1	N	538	G	C8-N7	-10.25	1.24	1.30
1	N	777	A	C5-C4	10.24	1.46	1.38
1	N	28	A	N9-C4	-10.24	1.31	1.37
1	N	1353	G	C6-N1	10.23	1.46	1.39
1	N	200	G	N7-C5	10.23	1.45	1.39
1	N	192	A	C5-C4	10.22	1.46	1.38
1	N	849	G	N7-C5	-10.21	1.33	1.39
1	N	430	A	C8-N7	-10.20	1.24	1.31
1	N	57	G	N1-C2	10.20	1.46	1.37
1	N	659	U	C4-C5	10.20	1.52	1.43
1	N	1148	U	N3-C4	10.19	1.47	1.38
1	N	1201	A	N7-C5	-10.18	1.33	1.39
1	N	846	G	C5-C4	-10.18	1.31	1.38
1	N	901	A	N3-C4	-10.18	1.28	1.34
1	N	1122	U	C2-N3	10.18	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1481	U	C3'-C2'	10.17	1.64	1.52
1	N	213	G	C2-N3	10.16	1.40	1.32
1	N	593	U	N3-C4	10.16	1.47	1.38
1	N	1140	C	N3-C4	10.16	1.41	1.33
1	N	15	G	C6-N1	10.16	1.46	1.39
1	N	1164	G	N7-C5	-10.15	1.33	1.39
1	N	585	G	C8-N7	-10.15	1.24	1.30
1	N	1282	C	N1-C6	10.15	1.43	1.37
1	N	624	C	C4-N4	10.14	1.43	1.33
1	N	1042	A	P-O5'	-10.14	1.49	1.59
1	N	335	C	N3-C4	10.14	1.41	1.33
1	N	731	G	P-O5'	-10.12	1.49	1.59
1	N	1135	U	C2-N3	10.12	1.44	1.37
1	N	501	C	C5-C6	-10.12	1.26	1.34
1	N	945	G	N7-C5	-10.11	1.33	1.39
1	N	746	A	C6-N6	10.11	1.42	1.33
1	N	731	G	C5'-C4'	10.10	1.63	1.51
1	N	1248	A	C6-N6	10.10	1.42	1.33
1	N	6	G	C5-C4	-10.10	1.31	1.38
1	N	227	G	C2-N3	10.09	1.40	1.32
1	N	1254	A	N7-C5	-10.09	1.33	1.39
1	N	557	G	N3-C4	10.09	1.42	1.35
1	N	280	C	N1-C6	10.09	1.43	1.37
1	N	1505	G	N9-C4	-10.09	1.29	1.38
1	N	115	G	C2-N3	10.08	1.40	1.32
1	N	1286	U	N3-C4	10.08	1.47	1.38
1	N	997	U	C4-C5	10.06	1.52	1.43
1	N	264	C	C4-N4	10.06	1.43	1.33
1	N	742	G	N3-C4	-10.05	1.28	1.35
1	N	276	G	N1-C2	10.05	1.45	1.37
1	N	350	G	C8-N7	-10.04	1.25	1.30
1	N	168	G	C8-N7	-10.04	1.25	1.30
1	N	57	G	C6-N1	10.04	1.46	1.39
1	N	845	A	N7-C5	-10.03	1.33	1.39
1	N	1208	C	N3-C4	10.03	1.41	1.33
1	N	922	G	N3-C4	-10.03	1.28	1.35
1	N	1084	G	C2-N3	10.02	1.40	1.32
1	N	143	A	C2-N3	-10.02	1.24	1.33
1	N	251	G	N7-C5	-10.01	1.33	1.39
1	N	183	C	C4-N4	10.00	1.43	1.33
1	N	263	A	N9-C4	10.00	1.43	1.37
1	N	79	G	N7-C5	-10.00	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	631	C	C4-N4	10.00	1.43	1.33
1	N	765	G	N7-C5	-10.00	1.33	1.39
1	N	929	G	C5-C4	10.00	1.45	1.38
1	N	597	G	C2-N3	9.99	1.40	1.32
1	N	1060	U	C4'-C3'	-9.99	1.42	1.53
1	N	655	A	P-O5'	-9.99	1.49	1.59
1	N	761	G	C5-C4	9.98	1.45	1.38
1	N	361	G	N9-C8	9.98	1.44	1.37
1	N	1174	G	C8-N7	-9.97	1.25	1.30
1	N	250	A	C2'-C1'	-9.97	1.42	1.53
1	N	1487	G	C6-N1	9.96	1.46	1.39
1	N	493	A	C6-N1	9.95	1.42	1.35
1	N	149	A	N9-C4	9.95	1.43	1.37
1	N	1408	A	C5'-C4'	9.95	1.63	1.51
1	N	1493	A	C6-N6	9.94	1.42	1.33
1	N	140	U	C4-C5	9.94	1.52	1.43
1	N	1193	G	C2'-C1'	-9.94	1.42	1.53
1	N	1275	A	N9-C4	-9.94	1.31	1.37
1	N	590	U	P-O5'	-9.94	1.49	1.59
1	N	1365	G	C6-N1	9.94	1.46	1.39
1	N	1191	A	N3-C4	9.93	1.40	1.34
1	N	1415	G	C5'-C4'	9.93	1.63	1.51
1	N	1270	G	N3-C4	9.93	1.42	1.35
1	N	764	C	C4-C5	9.93	1.50	1.43
1	N	1234	C	C2-N3	9.93	1.43	1.35
1	N	223	A	C8-N7	-9.92	1.24	1.31
1	N	601	G	C6-N1	9.92	1.46	1.39
1	N	102	G	C2-N2	-9.92	1.24	1.34
1	N	853	C	N1-C6	-9.92	1.31	1.37
1	N	369	G	C8-N7	9.92	1.36	1.30
1	N	70	U	C3'-C2'	9.91	1.63	1.52
1	N	1217	C	N3-C4	9.91	1.40	1.33
1	N	354	G	C4'-C3'	9.91	1.64	1.53
1	N	867	G	C6-N1	9.90	1.46	1.39
1	N	384	G	C2-N3	9.89	1.40	1.32
1	N	577	G	N1-C2	9.89	1.45	1.37
1	N	59	A	N3-C4	-9.88	1.28	1.34
1	N	98	A	C6-N6	9.88	1.41	1.33
1	N	42	G	N7-C5	-9.88	1.33	1.39
1	N	1035	A	C6-N1	9.87	1.42	1.35
1	N	359	G	N7-C5	-9.87	1.33	1.39
1	N	983	A	P-O5'	-9.87	1.49	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	648	A	N9-C4	-9.87	1.31	1.37
1	N	1001	C	C4-N4	9.86	1.42	1.33
1	N	1059	C	C5'-C4'	9.85	1.63	1.51
1	N	226	G	N7-C5	-9.85	1.33	1.39
1	N	1464	U	C2-N3	9.84	1.44	1.37
1	N	1380	U	C2-N3	9.84	1.44	1.37
1	N	477	C	N3-C4	9.83	1.40	1.33
1	N	444	G	C5-C6	-9.83	1.32	1.42
1	N	254	G	C5-C4	-9.82	1.31	1.38
1	N	1323	G	C2-N2	9.82	1.44	1.34
1	N	750	C	N1-C6	9.81	1.43	1.37
1	N	344	A	C6-N1	9.81	1.42	1.35
1	N	826	C	C4-C5	9.81	1.50	1.43
1	N	127	G	C2'-C1'	-9.81	1.42	1.53
1	N	168	G	P-O5'	-9.80	1.50	1.59
1	N	438	U	O3'-P	-9.79	1.49	1.61
1	N	97	G	C8-N7	-9.79	1.25	1.30
1	N	1138	G	N9-C8	-9.79	1.30	1.37
1	N	143	A	C6-N1	9.78	1.42	1.35
1	N	219	U	N1-C2	-9.78	1.29	1.38
1	N	1208	C	C4-C5	-9.78	1.35	1.43
1	N	113	G	C8-N7	-9.78	1.25	1.30
1	N	1290	G	N1-C2	9.77	1.45	1.37
1	N	473	U	C2-N3	9.77	1.44	1.37
1	N	709	U	N3-C4	9.77	1.47	1.38
1	N	581	G	N9-C4	-9.77	1.30	1.38
1	N	1244	G	N1-C2	9.77	1.45	1.37
1	N	126	G	C2-N3	9.76	1.40	1.32
1	N	1027	C	N1-C6	9.76	1.43	1.37
1	N	725	G	C6-N1	9.76	1.46	1.39
1	N	1052	U	C2-N3	9.76	1.44	1.37
1	N	604	G	N7-C5	-9.75	1.33	1.39
1	N	1297	G	N1-C2	9.75	1.45	1.37
1	N	500	G	C2'-C1'	-9.75	1.42	1.53
1	N	956	U	C2-N3	9.74	1.44	1.37
1	N	748	G	C8-N7	9.74	1.36	1.30
1	N	558	G	C5-C4	9.74	1.45	1.38
1	N	62	U	N1-C2	-9.73	1.29	1.38
1	N	212	G	P-O5'	-9.73	1.50	1.59
1	N	378	G	C5-C4	9.73	1.45	1.38
1	N	425	G	C2-N3	9.73	1.40	1.32
1	N	523	A	C8-N7	-9.72	1.24	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	554	A	N7-C5	-9.71	1.33	1.39
1	N	23	C	O3'-P	-9.71	1.49	1.61
1	N	116	A	N9-C4	-9.71	1.32	1.37
1	N	1462	C	C4-N4	9.69	1.42	1.33
1	N	327	A	C6-N6	9.69	1.41	1.33
1	N	994	A	C6-N1	9.69	1.42	1.35
1	N	131	A	P-O5'	-9.69	1.50	1.59
1	N	647	C	C4-N4	9.68	1.42	1.33
1	N	616	G	C2'-C1'	-9.68	1.42	1.53
1	N	192	A	N9-C4	9.68	1.43	1.37
1	N	1231	G	N3-C4	-9.68	1.28	1.35
1	N	780	A	C6-N6	9.67	1.41	1.33
1	N	378	G	C6-N1	9.67	1.46	1.39
1	N	849	G	C2-N3	9.67	1.40	1.32
1	N	1063	C	N1-C6	9.66	1.43	1.37
1	N	809	G	N7-C5	-9.66	1.33	1.39
1	N	151	A	C5-C4	9.66	1.45	1.38
1	N	1347	G	O3'-P	-9.66	1.49	1.61
1	N	278	G	C6-N1	9.65	1.46	1.39
1	N	6	G	P-O5'	-9.64	1.50	1.59
1	N	757	U	P-O5'	-9.64	1.50	1.59
1	N	308	C	C4-C5	-9.64	1.35	1.43
1	N	552	U	P-O5'	-9.63	1.50	1.59
1	N	389	A	C6-N1	9.63	1.42	1.35
1	N	1074	G	C5-C4	9.62	1.45	1.38
1	N	662	U	N3-C4	9.62	1.47	1.38
1	N	1515	G	N1-C2	9.62	1.45	1.37
1	N	20	U	C4-C5	9.62	1.52	1.43
1	N	65	A	N9-C4	9.62	1.43	1.37
1	N	182	A	C6-N6	9.61	1.41	1.33
1	N	58	C	N1-C6	9.61	1.43	1.37
1	N	1508	A	N7-C5	-9.61	1.33	1.39
1	N	1217	C	C4-N4	9.61	1.42	1.33
1	N	648	A	O3'-P	-9.60	1.49	1.61
1	N	1092	A	C2'-C1'	-9.60	1.42	1.53
1	N	1056	U	C2-N3	9.60	1.44	1.37
1	N	355	C	C2-N3	9.60	1.43	1.35
1	N	444	G	N9-C8	-9.60	1.31	1.37
1	N	1375	A	N7-C5	-9.60	1.33	1.39
1	N	706	A	C2'-C1'	-9.59	1.42	1.53
1	N	1119	C	P-O5'	9.59	1.69	1.59
1	N	97	G	N9-C8	-9.58	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	734	G	N9-C4	-9.58	1.30	1.38
1	N	640	A	N9-C4	9.58	1.43	1.37
1	N	168	G	C6-N1	9.57	1.46	1.39
1	N	745	G	N7-C5	-9.57	1.33	1.39
1	N	698	G	N1-C2	9.56	1.45	1.37
1	N	987	G	C8-N7	9.55	1.36	1.30
1	N	1517	G	C2-N3	9.55	1.40	1.32
1	N	1359	C	O3'-P	-9.54	1.49	1.61
1	N	753	A	C6-N1	9.53	1.42	1.35
1	N	755	G	C2-N3	9.53	1.40	1.32
1	N	385	C	N3-C4	9.50	1.40	1.33
1	N	623	C	N3-C4	9.50	1.40	1.33
1	N	142	G	P-O5'	-9.49	1.50	1.59
1	N	1293	C	C4-N4	9.49	1.42	1.33
1	N	515	G	C8-N7	-9.49	1.25	1.30
1	N	606	G	C2-N2	9.49	1.44	1.34
1	N	861	G	C2-N3	9.48	1.40	1.32
1	N	1530	G	N1-C2	9.48	1.45	1.37
1	N	141	G	C2-N3	9.48	1.40	1.32
1	N	695	A	C6-N1	9.48	1.42	1.35
1	N	958	A	C6-N1	9.47	1.42	1.35
1	N	1283	U	C2-N3	9.46	1.44	1.37
1	N	1456	A	N7-C5	-9.46	1.33	1.39
1	N	154	U	C2-N3	9.45	1.44	1.37
1	N	903	G	C8-N7	-9.46	1.25	1.30
1	N	1104	G	C2'-C1'	-9.46	1.43	1.53
1	N	1427	C	N3-C4	9.45	1.40	1.33
1	N	1365	G	N1-C2	9.45	1.45	1.37
1	N	892	A	N7-C5	-9.45	1.33	1.39
1	N	1383	C	C2'-C1'	-9.45	1.43	1.53
1	N	775	G	C2-N3	9.44	1.40	1.32
1	N	394	G	N3-C4	-9.44	1.28	1.35
1	N	451	A	C6-N1	9.44	1.42	1.35
1	N	639	G	N1-C2	9.44	1.45	1.37
1	N	1244	G	C8-N7	-9.43	1.25	1.30
1	N	425	G	C6-N1	9.43	1.46	1.39
1	N	1280	A	N3-C4	-9.42	1.29	1.34
1	N	782	A	N7-C5	-9.42	1.33	1.39
1	N	291	U	C2-N3	9.42	1.44	1.37
1	N	777	A	C6-N6	9.42	1.41	1.33
1	N	380	G	N1-C2	9.41	1.45	1.37
1	N	907	A	N7-C5	-9.41	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	350	G	N9-C4	-9.41	1.30	1.38
1	N	1022	A	N7-C5	-9.41	1.33	1.39
1	N	818	G	N1-C2	9.40	1.45	1.37
1	N	318	G	N9-C4	-9.40	1.30	1.38
1	N	1073	U	C2-N3	9.40	1.44	1.37
1	N	583	A	N7-C5	-9.40	1.33	1.39
1	N	565	U	N3-C4	9.40	1.47	1.38
1	N	736	C	N1-C6	9.40	1.42	1.37
1	N	62	U	C2-N3	9.39	1.44	1.37
1	N	1024	G	N3-C4	-9.39	1.28	1.35
1	N	587	G	C8-N7	-9.39	1.25	1.30
1	N	712	A	N7-C5	-9.38	1.33	1.39
1	N	1292	G	P-O5'	-9.38	1.50	1.59
1	N	490	C	C4-N4	9.38	1.42	1.33
1	N	1084	G	C2'-C1'	-9.38	1.43	1.53
1	N	1024	G	C2'-C1'	-9.38	1.43	1.53
1	N	559	A	C6-N1	9.37	1.42	1.35
1	N	1234	C	N1-C6	-9.38	1.31	1.37
1	N	433	G	N1-C2	9.37	1.45	1.37
1	N	455	G	C6-N1	9.37	1.46	1.39
1	N	1199	U	C3'-C2'	9.37	1.63	1.52
1	N	180	U	N3-C4	9.37	1.46	1.38
1	N	347	G	C4'-C3'	9.37	1.63	1.53
1	N	318	G	N7-C5	-9.36	1.33	1.39
1	N	374	A	C6-N1	9.36	1.42	1.35
1	N	1086	U	N1-C2	9.36	1.47	1.38
1	N	312	C	N3-C4	9.35	1.40	1.33
1	N	170	U	N3-C4	9.35	1.46	1.38
1	N	866	C	C2'-C1'	9.35	1.63	1.53
1	N	958	A	C5'-C4'	9.34	1.62	1.51
1	N	970	C	P-O5'	-9.34	1.50	1.59
1	N	483	C	N3-C4	9.34	1.40	1.33
1	N	411	A	C5'-C4'	9.33	1.62	1.51
1	N	115	G	C2-N2	9.33	1.43	1.34
1	N	217	C	C4-N4	-9.32	1.25	1.33
1	N	441	A	C8-N7	-9.32	1.25	1.31
1	N	1297	G	N9-C8	-9.32	1.31	1.37
1	N	9	G	N7-C5	-9.32	1.33	1.39
1	N	1167	A	N3-C4	-9.32	1.29	1.34
1	N	558	G	N7-C5	-9.31	1.33	1.39
1	N	1407	C	C2'-C1'	-9.31	1.43	1.53
1	N	1442	G	C2-N3	9.31	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1198	G	N9-C4	-9.30	1.30	1.38
1	N	1529	G	C6-N1	9.30	1.46	1.39
1	N	146	G	N7-C5	-9.30	1.33	1.39
1	N	435	A	N7-C5	-9.30	1.33	1.39
1	N	1196	A	C8-N7	9.29	1.38	1.31
1	N	176	C	C4'-C3'	9.27	1.63	1.53
1	N	352	C	P-O5'	-9.27	1.50	1.59
1	N	951	G	P-O5'	9.27	1.69	1.59
1	N	1319	A	N7-C5	-9.27	1.33	1.39
1	N	317	U	N1-C6	9.26	1.46	1.38
1	N	895	G	N7-C5	-9.26	1.33	1.39
1	N	1016	A	N9-C4	-9.26	1.32	1.37
1	N	1438	G	N9-C8	9.26	1.44	1.37
1	N	581	G	C2-N3	9.25	1.40	1.32
1	N	1215	G	N9-C8	9.25	1.44	1.37
1	N	865	A	C6-N1	9.25	1.42	1.35
1	N	328	C	N1-C2	9.25	1.49	1.40
1	N	962	C	C3'-O3'	9.25	1.55	1.42
1	N	1423	G	C5'-C4'	9.25	1.62	1.51
1	N	380	G	O4'-C1'	-9.24	1.29	1.41
1	N	607	A	C5'-C4'	9.24	1.62	1.51
1	N	669	G	N1-C2	9.24	1.45	1.37
1	N	277	C	N1-C6	9.23	1.42	1.37
1	N	147	G	C3'-C2'	-9.23	1.42	1.52
1	N	617	G	N3-C4	-9.23	1.28	1.35
1	N	369	G	P-O5'	-9.22	1.50	1.59
1	N	488	C	P-O5'	-9.22	1.50	1.59
1	N	1396	A	C6-N6	9.22	1.41	1.33
1	N	528	C	P-O5'	-9.22	1.50	1.59
1	N	1345	U	C4-C5	9.22	1.51	1.43
1	N	481	G	P-O5'	9.21	1.69	1.59
1	N	436	C	C2'-C1'	-9.21	1.43	1.53
1	N	40	C	N1-C6	9.21	1.42	1.37
1	N	115	G	C6-N1	9.21	1.46	1.39
1	N	477	C	C2-N3	9.21	1.43	1.35
1	N	299	G	C2'-C1'	-9.20	1.43	1.53
1	N	1189	U	C4-C5	9.20	1.51	1.43
1	N	1269	A	N7-C5	-9.20	1.33	1.39
1	N	100	G	N7-C5	-9.20	1.33	1.39
1	N	1143	G	N7-C5	-9.20	1.33	1.39
1	N	704	A	N9-C4	-9.19	1.32	1.37
1	N	1038	C	N3-C4	9.19	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	821	G	C6-N1	9.19	1.46	1.39
1	N	479	U	C2'-C1'	-9.18	1.43	1.53
1	N	857	C	C2'-C1'	9.18	1.63	1.53
1	N	431	A	N9-C4	-9.18	1.32	1.37
1	N	917	G	N7-C5	-9.18	1.33	1.39
1	N	1002	G	N3-C4	-9.18	1.29	1.35
1	N	1137	C	N3-C4	9.18	1.40	1.33
1	N	377	G	C6-N1	9.17	1.46	1.39
1	N	548	G	C5'-C4'	9.17	1.62	1.51
1	N	1518	A	C6-N1	9.16	1.42	1.35
1	N	1455	G	C8-N7	9.16	1.36	1.30
1	N	1249	C	N3-C4	9.15	1.40	1.33
1	N	49	U	N3-C4	9.15	1.46	1.38
1	N	830	G	N9-C4	-9.15	1.30	1.38
1	N	1276	G	N1-C2	9.15	1.45	1.37
1	N	468	A	C8-N7	-9.15	1.25	1.31
1	N	1072	G	P-O5'	-9.15	1.50	1.59
1	N	1269	A	C6-N1	9.13	1.42	1.35
1	N	1523	G	C6-N1	9.13	1.46	1.39
1	N	387	U	P-O5'	-9.13	1.50	1.59
1	N	671	G	N1-C2	9.13	1.45	1.37
1	N	1479	C	C2-N3	9.13	1.43	1.35
1	N	44	A	N7-C5	-9.12	1.33	1.39
1	N	352	C	N3-C4	9.12	1.40	1.33
1	N	147	G	C8-N7	9.11	1.36	1.30
1	N	311	C	C4-N4	9.11	1.42	1.33
1	N	598	U	N3-C4	9.11	1.46	1.38
1	N	184	G	P-O5'	-9.10	1.50	1.59
1	N	1483	A	P-O5'	-9.10	1.50	1.59
1	N	1190	G	C2'-C1'	-9.10	1.43	1.53
1	N	1184	G	P-O5'	-9.09	1.50	1.59
1	N	1465	A	C2-N3	9.09	1.41	1.33
1	N	1503	A	N9-C8	9.09	1.45	1.37
1	N	1333	A	P-O5'	-9.09	1.50	1.59
1	N	77	A	N9-C4	-9.09	1.32	1.37
1	N	673	A	N7-C5	-9.08	1.33	1.39
1	N	77	A	C4'-C3'	9.08	1.63	1.53
1	N	712	A	C5-C4	9.08	1.45	1.38
1	N	394	G	N7-C5	-9.07	1.33	1.39
1	N	37	U	N1-C6	9.07	1.46	1.38
1	N	225	C	P-O5'	-9.07	1.50	1.59
1	N	1258	G	C6-N1	9.07	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	217	C	C4-C5	9.07	1.50	1.43
1	N	185	U	N3-C4	9.06	1.46	1.38
1	N	1066	C	N3-C4	9.06	1.40	1.33
1	N	1152	A	N7-C5	-9.06	1.33	1.39
1	N	656	G	N7-C5	-9.05	1.33	1.39
1	N	795	C	N3-C4	9.04	1.40	1.33
1	N	1245	C	C4-C5	-9.04	1.35	1.43
1	N	632	U	C2'-C1'	-9.03	1.43	1.53
1	N	1041	G	N1-C2	9.03	1.45	1.37
1	N	1327	C	N1-C6	9.03	1.42	1.37
1	N	1190	G	O4'-C1'	-9.03	1.29	1.41
1	N	1458	G	N7-C5	-9.02	1.33	1.39
1	N	1074	G	C5-C6	-9.02	1.33	1.42
1	N	308	C	N1-C6	9.02	1.42	1.37
1	N	1287	A	N9-C4	-9.02	1.32	1.37
1	N	454	G	C5-C4	-9.01	1.32	1.38
1	N	777	A	N3-C4	-9.01	1.29	1.34
1	N	1156	G	C2'-C1'	-9.01	1.43	1.53
1	N	577	G	N9-C4	-9.00	1.30	1.38
1	N	1108	G	N9-C8	9.00	1.44	1.37
1	N	1482	G	N7-C5	8.99	1.44	1.39
1	N	649	A	C4'-C3'	8.99	1.63	1.53
1	N	698	G	N9-C4	8.99	1.45	1.38
1	N	605	U	C2-N3	8.99	1.44	1.37
1	N	773	G	N9-C4	-8.99	1.30	1.38
1	N	423	G	N3-C4	8.98	1.41	1.35
1	N	501	C	C4-N4	8.98	1.42	1.33
1	N	1157	A	C2'-C1'	-8.98	1.43	1.53
1	N	19	A	N7-C5	-8.98	1.33	1.39
1	N	99	C	C3'-C2'	8.98	1.62	1.52
1	N	221	C	N1-C6	8.97	1.42	1.37
1	N	903	G	N7-C5	-8.97	1.33	1.39
1	N	1361	G	N9-C4	-8.97	1.30	1.38
1	N	42	G	C5'-C4'	8.97	1.62	1.51
1	N	1274	A	N7-C5	-8.97	1.33	1.39
1	N	248	C	C2'-C1'	-8.97	1.43	1.53
1	N	1362	A	C6-N6	8.97	1.41	1.33
1	N	371	A	N9-C4	-8.96	1.32	1.37
1	N	650	G	C5-C4	8.96	1.44	1.38
1	N	117	G	N9-C4	8.96	1.45	1.38
1	N	647	C	N1-C6	8.96	1.42	1.37
1	N	1253	G	C8-N7	-8.96	1.25	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	802	A	N9-C4	8.96	1.43	1.37
1	N	346	G	N3-C4	-8.95	1.29	1.35
1	N	629	A	N7-C5	-8.95	1.33	1.39
1	N	268	U	N1-C2	-8.95	1.30	1.38
1	N	835	U	N3-C4	8.95	1.46	1.38
1	N	1074	G	C6-N1	8.95	1.45	1.39
1	N	1486	G	C6-N1	8.95	1.45	1.39
1	N	519	C	C4-C5	8.94	1.50	1.43
1	N	223	A	C2'-C1'	-8.94	1.43	1.53
1	N	156	C	C4-N4	8.93	1.42	1.33
1	N	257	G	C2-N3	8.93	1.39	1.32
1	N	1377	A	N9-C4	-8.93	1.32	1.37
1	N	1176	A	N3-C4	-8.93	1.29	1.34
1	N	549	C	C2'-C1'	-8.92	1.43	1.53
1	N	1318	A	N7-C5	-8.92	1.33	1.39
1	N	235	C	C4-N4	8.92	1.42	1.33
1	N	545	C	N3-C4	8.92	1.40	1.33
1	N	395	C	C2-N3	8.91	1.42	1.35
1	N	579	A	N7-C5	-8.91	1.33	1.39
1	N	366	A	N7-C5	-8.90	1.33	1.39
1	N	1168	U	N3-C4	8.89	1.46	1.38
1	N	552	U	C2-N3	8.89	1.44	1.37
1	N	705	G	C2-N2	8.89	1.43	1.34
1	N	435	A	C5'-C4'	8.89	1.62	1.51
1	N	1277	C	C2-N3	8.89	1.42	1.35
1	N	164	G	N7-C5	-8.89	1.33	1.39
1	N	643	C	C2-N3	8.89	1.42	1.35
1	N	1516	G	C5'-C4'	8.89	1.62	1.51
1	N	1343	G	C2-N3	8.89	1.39	1.32
1	N	1191	A	C6-N6	8.88	1.41	1.33
1	N	71	A	N7-C5	-8.88	1.33	1.39
1	N	626	G	N3-C4	-8.88	1.29	1.35
1	N	884	U	C2-N3	8.88	1.44	1.37
1	N	1267	C	N1-C6	8.87	1.42	1.37
1	N	1454	G	N9-C8	-8.87	1.31	1.37
1	N	518	C	C3'-C2'	8.86	1.62	1.52
1	N	1145	A	N7-C5	-8.86	1.33	1.39
1	N	1454	G	C4'-C3'	8.86	1.62	1.53
1	N	1492	A	C5'-C4'	8.85	1.61	1.51
1	N	846	G	N1-C2	8.85	1.44	1.37
1	N	753	A	N9-C4	-8.85	1.32	1.37
1	N	571	U	C2-N3	8.84	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	320	A	N9-C4	-8.84	1.32	1.37
1	N	1158	C	C4-N4	8.84	1.42	1.33
1	N	1333	A	N7-C5	-8.84	1.33	1.39
1	N	630	A	C8-N7	8.84	1.37	1.31
1	N	1428	A	N9-C8	8.83	1.44	1.37
1	N	1461	G	C8-N7	-8.83	1.25	1.30
1	N	26	A	C6-N1	8.83	1.41	1.35
1	N	84	U	C2-N3	8.83	1.44	1.37
1	N	1376	U	C2-N3	8.83	1.44	1.37
1	N	749	A	N1-C2	8.82	1.42	1.34
1	N	29	U	C2-N3	8.82	1.44	1.37
1	N	597	G	C2'-C1'	-8.81	1.43	1.53
1	N	1120	C	N1-C6	8.81	1.42	1.37
1	N	424	G	N9-C8	-8.81	1.31	1.37
1	N	836	G	C2-N3	8.81	1.39	1.32
1	N	158	G	N7-C5	-8.80	1.33	1.39
1	N	378	G	N7-C5	-8.80	1.33	1.39
1	N	1335	U	C2-N3	8.80	1.44	1.37
1	N	622	A	C4'-C3'	-8.79	1.43	1.53
1	N	1039	G	P-O5'	8.79	1.68	1.59
1	N	259	G	N3-C4	8.78	1.41	1.35
1	N	1016	A	N7-C5	-8.78	1.33	1.39
1	N	1274	A	C4'-C3'	8.78	1.62	1.53
1	N	897	C	C2'-C1'	-8.77	1.43	1.53
1	N	200	G	C8-N7	-8.77	1.25	1.30
1	N	1035	A	N3-C4	-8.77	1.29	1.34
1	N	741	G	C6-N1	8.76	1.45	1.39
1	N	752	G	C2'-C1'	-8.76	1.43	1.53
1	N	842	U	P-O5'	-8.76	1.50	1.59
1	N	1465	A	C6-N6	8.76	1.41	1.33
1	N	163	C	O3'-P	-8.76	1.50	1.61
1	N	1182	G	C6-N1	8.76	1.45	1.39
1	N	781	A	C6-N1	8.75	1.41	1.35
1	N	297	G	N9-C4	-8.75	1.30	1.38
1	N	1251	A	O4'-C1'	-8.74	1.30	1.41
1	N	646	G	C8-N7	-8.74	1.25	1.30
1	N	15	G	C4'-C3'	8.73	1.62	1.53
1	N	836	G	N7-C5	-8.73	1.34	1.39
1	N	260	G	C6-N1	8.73	1.45	1.39
1	N	918	A	N7-C5	-8.73	1.34	1.39
1	N	964	A	N9-C4	8.73	1.43	1.37
1	N	344	A	N3-C4	8.73	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	655	A	N7-C5	-8.73	1.34	1.39
1	N	142	G	C2'-C1'	-8.72	1.43	1.53
1	N	1461	G	N1-C2	8.72	1.44	1.37
1	N	705	G	N7-C5	-8.72	1.34	1.39
1	N	1140	C	C3'-C2'	8.72	1.62	1.52
1	N	947	G	N9-C8	8.72	1.44	1.37
1	N	1216	A	C6-N6	8.71	1.41	1.33
1	N	975	A	N3-C4	8.71	1.40	1.34
1	N	74	A	C5-C4	8.71	1.44	1.38
1	N	893	C	C2-N3	8.71	1.42	1.35
1	N	88	U	O3'-P	-8.70	1.50	1.61
1	N	679	C	C4'-C3'	-8.70	1.43	1.53
1	N	164	G	N9-C8	8.70	1.44	1.37
1	N	838	G	N9-C8	-8.70	1.31	1.37
1	N	1057	G	C6-N1	8.70	1.45	1.39
1	N	8	A	N9-C4	8.70	1.43	1.37
1	N	515	G	C2-N3	8.70	1.39	1.32
1	N	411	A	C6-N6	8.69	1.41	1.33
1	N	1415	G	C2-N3	8.69	1.39	1.32
1	N	658	C	C4-N4	8.69	1.41	1.33
1	N	766	A	C8-N7	-8.68	1.25	1.31
1	N	1084	G	N9-C8	-8.68	1.31	1.37
1	N	83	C	C4-N4	8.68	1.41	1.33
1	N	441	A	C6-N1	8.68	1.41	1.35
1	N	406	G	C6-N1	8.67	1.45	1.39
1	N	1289	A	N9-C8	-8.67	1.30	1.37
1	N	708	C	N3-C4	8.67	1.40	1.33
1	N	1497	G	C8-N7	8.67	1.36	1.30
1	N	1108	G	C5-C6	-8.67	1.33	1.42
1	N	308	C	C4'-C3'	8.67	1.62	1.53
1	N	336	A	N9-C4	-8.67	1.32	1.37
1	N	515	G	C5'-C4'	8.67	1.61	1.51
1	N	371	A	C6-N6	8.67	1.40	1.33
1	N	675	A	N3-C4	-8.66	1.29	1.34
1	N	793	U	C4'-C3'	8.66	1.62	1.53
1	N	1409	C	C4-N4	8.66	1.41	1.33
1	N	1333	A	C6-N6	8.66	1.40	1.33
1	N	932	C	C2-N3	8.66	1.42	1.35
1	N	397	A	C6-N6	8.66	1.40	1.33
1	N	544	G	C8-N7	-8.66	1.25	1.30
1	N	788	U	O3'-P	-8.65	1.50	1.61
1	N	93	U	C2-N3	8.65	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	915	A	C8-N7	-8.65	1.25	1.31
1	N	1325	C	C4-N4	8.65	1.41	1.33
1	N	1066	C	C4-C5	-8.65	1.36	1.43
1	N	204	G	C3'-C2'	-8.64	1.43	1.52
1	N	68	G	C8-N7	-8.64	1.25	1.30
1	N	452	A	C8-N7	8.64	1.37	1.31
1	N	81	A	C6-N6	8.64	1.40	1.33
1	N	1235	U	C2-N3	8.64	1.43	1.37
1	N	1128	C	C2-N3	8.64	1.42	1.35
1	N	337	G	C5-C6	-8.63	1.33	1.42
1	N	1361	G	C5-C4	8.63	1.44	1.38
1	N	403	C	C2-O2	8.63	1.32	1.24
1	N	960	U	C2-N3	8.63	1.43	1.37
1	N	316	C	N1-C6	8.62	1.42	1.37
1	N	197	A	C6-N1	8.62	1.41	1.35
1	N	507	C	C2'-C1'	-8.62	1.43	1.53
1	N	708	C	P-O5'	-8.62	1.51	1.59
1	N	1492	A	C6-N6	8.62	1.40	1.33
1	N	914	A	C6-N1	8.62	1.41	1.35
1	N	716	A	C5-C6	8.61	1.48	1.41
1	N	945	G	N9-C8	8.61	1.43	1.37
1	N	1392	G	N7-C5	-8.61	1.34	1.39
1	N	186	C	N1-C6	8.60	1.42	1.37
1	N	732	C	N1-C6	8.60	1.42	1.37
1	N	358	U	C2-N3	8.60	1.43	1.37
1	N	829	G	N7-C5	-8.60	1.34	1.39
1	N	941	G	C8-N7	-8.60	1.25	1.30
1	N	1178	G	C2-N3	8.60	1.39	1.32
1	N	1251	A	C2'-C1'	-8.60	1.43	1.53
1	N	1372	U	N3-C4	8.60	1.46	1.38
1	N	971	G	N1-C2	8.59	1.44	1.37
1	N	1355	G	C2'-C1'	-8.59	1.43	1.53
1	N	321	A	N9-C4	-8.59	1.32	1.37
1	N	973	G	C3'-O3'	8.59	1.54	1.42
1	N	1217	C	C2-O2	8.59	1.32	1.24
1	N	1318	A	N9-C4	-8.59	1.32	1.37
1	N	383	A	P-O5'	-8.59	1.51	1.59
1	N	969	A	C6-N1	8.58	1.41	1.35
1	N	91	U	C4'-C3'	8.58	1.62	1.53
1	N	663	A	N7-C5	-8.57	1.34	1.39
1	N	944	G	N9-C8	-8.57	1.31	1.37
1	N	907	A	C6-N6	8.56	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1487	G	N9-C8	-8.56	1.31	1.37
1	N	274	A	P-O5'	-8.56	1.51	1.59
1	N	1405	G	C6-N1	8.56	1.45	1.39
1	N	6	G	C2-N3	8.56	1.39	1.32
1	N	241	G	N7-C5	8.56	1.44	1.39
1	N	428	G	C8-N7	8.55	1.36	1.30
1	N	230	G	O4'-C1'	8.55	1.52	1.41
1	N	164	G	C2-N3	8.55	1.39	1.32
1	N	424	G	C6-N1	-8.55	1.33	1.39
1	N	606	G	N9-C4	-8.55	1.31	1.38
1	N	691	G	C6-N1	8.55	1.45	1.39
1	N	1408	A	C4'-C3'	-8.54	1.43	1.53
1	N	835	U	P-O5'	-8.54	1.51	1.59
1	N	1405	G	N7-C5	-8.54	1.34	1.39
1	N	3	A	C4'-O4'	8.54	1.56	1.45
1	N	402	G	C6-N1	8.54	1.45	1.39
1	N	468	A	C6-N6	8.54	1.40	1.33
1	N	164	G	C5-C4	8.53	1.44	1.38
1	N	626	G	C6-N1	8.53	1.45	1.39
1	N	302	G	N9-C8	8.53	1.43	1.37
1	N	908	A	O3'-P	-8.53	1.50	1.61
1	N	85	U	C4'-C3'	8.53	1.62	1.53
1	N	742	G	N7-C5	-8.52	1.34	1.39
1	N	893	C	N1-C6	8.52	1.42	1.37
1	N	1260	G	C2-N3	8.52	1.39	1.32
1	N	1387	G	C2-N3	8.52	1.39	1.32
1	N	395	C	C5'-C4'	8.52	1.61	1.51
1	N	111	G	N9-C4	-8.51	1.31	1.38
1	N	1251	A	C6-N1	8.50	1.41	1.35
1	N	785	G	N3-C4	-8.50	1.29	1.35
1	N	1272	G	N3-C4	8.50	1.41	1.35
1	N	747	A	C6-N1	8.50	1.41	1.35
1	N	990	C	N3-C4	8.50	1.39	1.33
1	N	702	A	C5'-C4'	8.50	1.61	1.51
1	N	2	A	C5'-C4'	8.49	1.61	1.51
1	N	24	U	C5'-C4'	8.49	1.61	1.51
1	N	534	U	O3'-P	-8.49	1.50	1.61
1	N	314	C	N3-C4	8.49	1.39	1.33
1	N	949	A	N9-C4	-8.49	1.32	1.37
1	N	1410	A	N9-C4	-8.49	1.32	1.37
1	N	1392	G	C5-C6	-8.49	1.33	1.42
1	N	367	U	N3-C4	8.49	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1471	U	C2-N3	8.49	1.43	1.37
1	N	969	A	N9-C8	8.48	1.44	1.37
1	N	457	G	C6-N1	8.48	1.45	1.39
1	N	198	G	N9-C8	8.48	1.43	1.37
1	N	871	U	C4-C5	-8.48	1.35	1.43
1	N	498	A	N9-C4	-8.48	1.32	1.37
1	N	927	G	C6-N1	8.48	1.45	1.39
1	N	1132	C	C2'-C1'	-8.47	1.44	1.53
1	N	593	U	N1-C6	8.47	1.45	1.38
1	N	205	A	N9-C4	-8.46	1.32	1.37
1	N	337	G	C8-N7	-8.47	1.25	1.30
1	N	1484	C	C4'-C3'	-8.46	1.43	1.53
1	N	494	G	N7-C5	-8.46	1.34	1.39
1	N	779	C	N1-C6	8.46	1.42	1.37
1	N	902	G	N9-C4	-8.46	1.31	1.38
1	N	513	C	C4-N4	8.46	1.41	1.33
1	N	748	G	N7-C5	-8.46	1.34	1.39
1	N	1225	A	C2-N3	8.46	1.41	1.33
1	N	1431	A	N9-C4	8.46	1.43	1.37
1	N	523	A	N3-C4	-8.45	1.29	1.34
1	N	1394	A	C6-N6	8.45	1.40	1.33
1	N	1443	C	C5'-C4'	8.45	1.61	1.51
1	N	767	A	N3-C4	-8.45	1.29	1.34
1	N	1124	G	P-O5'	-8.45	1.51	1.59
1	N	1425	U	C4-C5	8.45	1.51	1.43
1	N	1521	C	C5'-C4'	8.44	1.61	1.51
1	N	790	A	C6-N1	8.44	1.41	1.35
1	N	1175	G	C6-N1	8.44	1.45	1.39
1	N	167	A	C8-N7	-8.44	1.25	1.31
1	N	1227	A	N7-C5	-8.43	1.34	1.39
1	N	1347	G	N1-C2	8.43	1.44	1.37
1	N	45	G	N3-C4	8.43	1.41	1.35
1	N	281	G	P-O5'	-8.43	1.51	1.59
1	N	366	A	C6-N6	8.43	1.40	1.33
1	N	963	G	N3-C4	8.43	1.41	1.35
1	N	557	G	C2'-C1'	-8.42	1.44	1.53
1	N	935	A	N9-C4	-8.42	1.32	1.37
1	N	489	C	N3-C4	8.42	1.39	1.33
1	N	1201	A	N9-C4	-8.42	1.32	1.37
1	N	1408	A	C6-N6	8.42	1.40	1.33
1	N	129	A	N7-C5	-8.41	1.34	1.39
1	N	447	G	N9-C8	8.41	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	332	G	N9-C8	-8.41	1.31	1.37
1	N	585	G	N9-C4	-8.41	1.31	1.38
1	N	360	G	C5-C6	-8.41	1.33	1.42
1	N	537	G	C2'-C1'	-8.41	1.44	1.53
1	N	1329	A	C6-N1	8.41	1.41	1.35
1	N	1014	A	C6-N1	8.40	1.41	1.35
1	N	773	G	C1'-N9	8.40	1.61	1.48
1	N	112	G	C2'-C1'	-8.40	1.44	1.53
1	N	49	U	P-O5'	-8.39	1.51	1.59
1	N	1047	G	N9-C4	-8.39	1.31	1.38
1	N	1276	G	N3-C4	-8.39	1.29	1.35
1	N	1337	G	N1-C2	8.39	1.44	1.37
1	N	192	A	N9-C8	8.38	1.44	1.37
1	N	1241	G	C6-N1	8.38	1.45	1.39
1	N	1230	C	N3-C4	8.38	1.39	1.33
1	N	1433	A	P-O5'	8.38	1.68	1.59
1	N	498	A	C2'-C1'	-8.38	1.44	1.53
1	N	1414	U	C4'-O4'	-8.38	1.34	1.45
1	N	1507	A	N9-C4	8.38	1.42	1.37
1	N	627	G	C1'-N9	-8.37	1.35	1.46
1	N	100	G	C5-C4	8.37	1.44	1.38
1	N	139	A	C4'-C3'	-8.37	1.44	1.53
1	N	205	A	C4'-O4'	8.37	1.56	1.45
1	N	1274	A	C5'-C4'	8.37	1.61	1.51
1	N	755	G	P-O5'	-8.37	1.51	1.59
1	N	441	A	N3-C4	-8.36	1.29	1.34
1	N	749	A	C2'-C1'	-8.36	1.44	1.53
1	N	1071	C	C2'-C1'	-8.36	1.44	1.53
1	N	1409	C	N1-C6	-8.36	1.32	1.37
1	N	839	C	N1-C6	8.36	1.42	1.37
1	N	792	A	C6-N6	8.36	1.40	1.33
1	N	424	G	N7-C5	-8.36	1.34	1.39
1	N	538	G	N1-C2	8.36	1.44	1.37
1	N	395	C	P-O5'	-8.35	1.51	1.59
1	N	1338	G	N1-C2	8.35	1.44	1.37
1	N	484	G	C8-N7	-8.35	1.25	1.30
1	N	1505	G	C2-N3	8.35	1.39	1.32
1	N	908	A	C1'-N9	8.35	1.61	1.48
1	N	230	G	N7-C5	8.35	1.44	1.39
1	N	276	G	C2'-C1'	-8.35	1.44	1.53
1	N	750	C	C4-N4	8.35	1.41	1.33
1	N	1444	U	C2-N3	8.35	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	435	A	C5-C4	8.34	1.44	1.38
1	N	1239	A	C2-N3	8.34	1.41	1.33
1	N	451	A	C2'-C1'	-8.34	1.44	1.53
1	N	602	A	C2-N3	-8.34	1.26	1.33
1	N	6	G	C8-N7	-8.34	1.25	1.30
1	N	561	U	O3'-P	-8.34	1.51	1.61
1	N	1255	G	N7-C5	-8.34	1.34	1.39
1	N	49	U	C5-C6	-8.34	1.26	1.34
1	N	914	A	N9-C8	8.33	1.44	1.37
1	N	1001	C	N3-C4	8.33	1.39	1.33
1	N	633	G	P-O5'	-8.32	1.51	1.59
1	N	658	C	C5'-C4'	8.32	1.61	1.51
1	N	74	A	O3'-P	-8.32	1.51	1.61
1	N	523	A	C5-C4	8.32	1.44	1.38
1	N	555	U	C2-N3	8.32	1.43	1.37
1	N	970	C	O3'-P	-8.32	1.51	1.61
1	N	81	A	C4'-C3'	8.31	1.62	1.53
1	N	145	G	N1-C2	8.31	1.44	1.37
1	N	434	U	C2-N3	8.31	1.43	1.37
1	N	10	A	C6-N6	8.31	1.40	1.33
1	N	129	A	C5'-C4'	8.31	1.61	1.51
1	N	497	G	C2-N3	8.31	1.39	1.32
1	N	654	G	C2-N3	8.31	1.39	1.32
1	N	113	G	N9-C4	-8.31	1.31	1.38
1	N	1510	C	C4-C5	8.31	1.49	1.43
1	N	25	C	C2-N3	-8.30	1.29	1.35
1	N	167	A	N9-C4	-8.31	1.32	1.37
1	N	350	G	N3-C4	-8.30	1.29	1.35
1	N	660	C	C2'-C1'	-8.30	1.44	1.53
1	N	435	A	C2-N3	8.30	1.41	1.33
1	N	456	A	N9-C4	8.30	1.42	1.37
1	N	1324	A	P-O5'	-8.30	1.51	1.59
1	N	1503	A	N3-C4	8.30	1.39	1.34
1	N	783	C	C5-C6	-8.30	1.27	1.34
1	N	570	G	C6-N1	8.29	1.45	1.39
1	N	622	A	N9-C4	-8.29	1.32	1.37
1	N	1494	G	N3-C4	-8.29	1.29	1.35
1	N	540	G	C2-N3	8.29	1.39	1.32
1	N	1166	G	C2'-C1'	-8.29	1.44	1.53
1	N	934	C	C4-N4	8.29	1.41	1.33
1	N	320	A	N7-C5	-8.29	1.34	1.39
1	N	1456	A	C5-C4	-8.29	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	205	A	N3-C4	-8.28	1.29	1.34
1	N	891	U	N3-C4	8.29	1.46	1.38
1	N	19	A	N9-C8	8.28	1.44	1.37
1	N	1388	C	N1-C6	8.28	1.42	1.37
1	N	50	A	C6-N6	8.28	1.40	1.33
1	N	97	G	N1-C2	8.28	1.44	1.37
1	N	835	U	C2-N3	8.28	1.43	1.37
1	N	915	A	N3-C4	-8.28	1.29	1.34
1	N	247	G	C6-N1	8.27	1.45	1.39
1	N	580	C	N1-C6	-8.27	1.32	1.37
1	N	502	A	P-O5'	-8.27	1.51	1.59
1	N	650	G	C8-N7	-8.27	1.25	1.30
1	N	608	A	C6-N6	8.27	1.40	1.33
1	N	798	U	C2-N3	8.27	1.43	1.37
1	N	307	C	C4'-C3'	8.26	1.62	1.53
1	N	497	G	O3'-P	-8.26	1.51	1.61
1	N	544	G	P-O5'	-8.26	1.51	1.59
1	N	177	G	N1-C2	8.26	1.44	1.37
1	N	733	G	N7-C5	-8.26	1.34	1.39
1	N	1120	C	N3-C4	8.26	1.39	1.33
1	N	1286	U	C2-N3	8.26	1.43	1.37
1	N	401	C	O4'-C1'	8.25	1.52	1.41
1	N	657	U	N3-C4	8.25	1.45	1.38
1	N	838	G	N3-C4	8.25	1.41	1.35
1	N	1457	G	N1-C2	8.25	1.44	1.37
1	N	1533	C	C4-N4	8.25	1.41	1.33
1	N	770	C	N1-C6	8.25	1.42	1.37
1	N	1053	G	N9-C4	-8.25	1.31	1.38
1	N	1123	U	C2'-C1'	8.24	1.62	1.53
1	N	45	G	C2'-C1'	-8.24	1.44	1.53
1	N	1241	G	N9-C8	-8.24	1.32	1.37
1	N	698	G	N7-C5	-8.24	1.34	1.39
1	N	1239	A	C5'-C4'	8.24	1.61	1.51
1	N	459	A	C5-C6	-8.24	1.33	1.41
1	N	1312	G	C8-N7	-8.24	1.26	1.30
1	N	103	U	C2-N3	8.23	1.43	1.37
1	N	308	C	N3-C4	8.23	1.39	1.33
1	N	704	A	N7-C5	-8.23	1.34	1.39
1	N	128	G	C8-N7	8.23	1.35	1.30
1	N	566	G	C5'-C4'	8.23	1.61	1.51
1	N	674	G	P-O5'	-8.23	1.51	1.59
1	N	554	A	C4'-C3'	8.22	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	600	A	C8-N7	-8.22	1.25	1.31
1	N	259	G	C4'-C3'	8.22	1.62	1.53
1	N	440	C	P-O5'	-8.22	1.51	1.59
1	N	693	G	C2'-C1'	-8.22	1.44	1.53
1	N	533	A	N7-C5	-8.22	1.34	1.39
1	N	1110	A	C6-N6	8.22	1.40	1.33
1	N	1240	U	C2-N3	8.22	1.43	1.37
1	N	212	G	N9-C8	8.21	1.43	1.37
1	N	250	A	C5-C4	8.21	1.44	1.38
1	N	332	G	C2'-C1'	-8.21	1.44	1.53
1	N	877	G	N1-C2	8.21	1.44	1.37
1	N	926	G	O3'-P	-8.21	1.51	1.61
1	N	275	G	N1-C2	8.21	1.44	1.37
1	N	524	G	C2-N2	8.21	1.42	1.34
1	N	895	G	N9-C4	-8.21	1.31	1.38
1	N	996	A	C5-C4	8.21	1.44	1.38
1	N	1170	A	C1'-N9	8.21	1.61	1.48
1	N	424	G	C2'-C1'	-8.21	1.44	1.53
1	N	525	C	N1-C6	8.20	1.42	1.37
1	N	22	G	N3-C4	-8.20	1.29	1.35
1	N	220	G	N1-C2	8.20	1.44	1.37
1	N	1160	G	N1-C2	8.20	1.44	1.37
1	N	548	G	C3'-C2'	8.20	1.61	1.52
1	N	140	U	C2-N3	8.19	1.43	1.37
1	N	760	G	N1-C2	8.19	1.44	1.37
1	N	1197	A	N7-C5	8.19	1.44	1.39
1	N	828	U	C5'-C4'	8.18	1.61	1.51
1	N	1024	G	N7-C5	-8.18	1.34	1.39
1	N	363	A	C4'-O4'	8.18	1.56	1.45
1	N	664	G	C6-N1	8.18	1.45	1.39
1	N	537	G	C2-N3	8.18	1.39	1.32
1	N	1106	G	N9-C4	8.18	1.44	1.38
1	N	94	G	N9-C4	-8.17	1.31	1.38
1	N	494	G	N1-C2	8.17	1.44	1.37
1	N	1360	A	N3-C4	-8.17	1.29	1.34
1	N	1521	C	N1-C6	8.17	1.42	1.37
1	N	1016	A	C5-C4	-8.17	1.33	1.38
1	N	342	C	N3-C4	8.16	1.39	1.33
1	N	575	G	N7-C5	-8.16	1.34	1.39
1	N	205	A	C5'-C4'	8.16	1.61	1.51
1	N	362	G	C2'-C1'	-8.16	1.44	1.53
1	N	533	A	C5'-C4'	8.15	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	555	U	N3-C4	8.15	1.45	1.38
1	N	412	A	C5-C4	8.15	1.44	1.38
1	N	857	C	N1-C6	8.15	1.42	1.37
1	N	468	A	P-O5'	-8.15	1.51	1.59
1	N	674	G	C2-N2	8.15	1.42	1.34
1	N	1331	G	N1-C2	8.15	1.44	1.37
1	N	838	G	C2-N3	8.15	1.39	1.32
1	N	1420	U	C2'-C1'	8.15	1.62	1.53
1	N	757	U	C4'-C3'	8.14	1.62	1.53
1	N	1276	G	N7-C5	-8.14	1.34	1.39
1	N	291	U	C5'-C4'	8.14	1.61	1.51
1	N	580	C	N3-C4	8.14	1.39	1.33
1	N	1296	C	N1-C6	8.13	1.42	1.37
1	N	1463	U	N3-C4	8.13	1.45	1.38
1	N	389	A	C8-N7	-8.13	1.25	1.31
1	N	243	A	C5'-C4'	8.13	1.61	1.51
1	N	592	G	C2-N3	8.13	1.39	1.32
1	N	615	G	N9-C8	-8.13	1.32	1.37
1	N	1366	C	N3-C4	8.13	1.39	1.33
1	N	485	U	N1-C2	8.13	1.45	1.38
1	N	73	C	C3'-C2'	8.12	1.61	1.52
1	N	212	G	C2'-C1'	-8.12	1.44	1.53
1	N	259	G	P-O5'	-8.12	1.51	1.59
1	N	535	A	C6-N6	8.12	1.40	1.33
1	N	256	U	C2-N3	8.12	1.43	1.37
1	N	1025	U	C2-N3	8.12	1.43	1.37
1	N	1133	G	C6-N1	8.12	1.45	1.39
1	N	1119	C	C2-N3	8.12	1.42	1.35
1	N	1139	G	N1-C2	8.12	1.44	1.37
1	N	556	C	C3'-O3'	8.11	1.53	1.42
1	N	549	C	C2-N3	8.11	1.42	1.35
1	N	726	C	N1-C2	-8.11	1.32	1.40
1	N	22	G	O3'-P	-8.10	1.51	1.61
1	N	135	C	N3-C4	8.10	1.39	1.33
1	N	1170	A	C8-N7	-8.10	1.25	1.31
1	N	160	A	C2'-C1'	-8.09	1.44	1.53
1	N	710	G	C5-C4	8.09	1.44	1.38
1	N	438	U	C2-N3	8.09	1.43	1.37
1	N	219	U	C2-N3	8.09	1.43	1.37
1	N	911	U	C4-O4	8.09	1.30	1.23
1	N	1175	G	C5-C4	8.09	1.44	1.38
1	N	1206	G	C2-N3	8.09	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1204	A	N7-C5	8.09	1.44	1.39
1	N	125	U	C1'-N1	8.08	1.60	1.48
1	N	445	G	C2'-C1'	8.08	1.62	1.53
1	N	651	C	C2'-C1'	-8.08	1.44	1.53
1	N	276	G	C5-C6	-8.08	1.34	1.42
1	N	414	A	C4'-C3'	8.08	1.62	1.53
1	N	1356	G	C2-N3	8.07	1.39	1.32
1	N	678	U	C2-N3	8.07	1.43	1.37
1	N	714	G	C2'-C1'	-8.07	1.44	1.53
1	N	697	U	N1-C6	-8.07	1.30	1.38
1	N	1023	U	C2-N3	8.07	1.43	1.37
1	N	1449	C	C4-C5	-8.06	1.36	1.43
1	N	41	G	C2-N3	8.06	1.39	1.32
1	N	496	A	N9-C4	-8.06	1.33	1.37
1	N	1260	G	P-O5'	-8.06	1.51	1.59
1	N	942	G	C5-C4	-8.05	1.32	1.38
1	N	1092	A	N9-C8	8.05	1.44	1.37
1	N	1338	G	P-O5'	-8.05	1.51	1.59
1	N	988	G	C4'-C3'	8.05	1.62	1.53
1	N	1507	A	C8-N7	-8.05	1.25	1.31
1	N	108	G	P-O5'	-8.04	1.51	1.59
1	N	1262	C	P-O5'	-8.04	1.51	1.59
1	N	488	C	N3-C4	8.04	1.39	1.33
1	N	1295	U	C2-N3	8.04	1.43	1.37
1	N	201	G	C6-N1	8.04	1.45	1.39
1	N	364	A	C8-N7	8.04	1.37	1.31
1	N	647	C	N1-C2	-8.04	1.32	1.40
1	N	704	A	C6-N1	8.04	1.41	1.35
1	N	966	G	P-O5'	-8.04	1.51	1.59
1	N	1114	C	C5-C6	-8.04	1.27	1.34
1	N	104	G	C8-N7	-8.03	1.26	1.30
1	N	932	C	C5'-C4'	8.03	1.60	1.51
1	N	402	G	C8-N7	-8.03	1.26	1.30
1	N	1494	G	C2-N3	8.03	1.39	1.32
1	N	1233	G	N3-C4	-8.03	1.29	1.35
1	N	916	U	C5'-C4'	8.02	1.60	1.51
1	N	264	C	N1-C2	8.02	1.48	1.40
1	N	1392	G	C8-N7	-8.02	1.26	1.30
1	N	774	G	C6-N1	8.02	1.45	1.39
1	N	1357	A	N3-C4	-8.02	1.30	1.34
1	N	1200	C	C4'-O4'	8.01	1.55	1.45
1	N	394	G	C6-N1	8.01	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	495	A	C8-N7	-8.01	1.25	1.31
1	N	570	G	N3-C4	-8.01	1.29	1.35
1	N	385	C	N1-C6	8.00	1.42	1.37
1	N	873	A	C5-C4	8.00	1.44	1.38
1	N	339	C	C4-C5	8.00	1.49	1.43
1	N	1162	C	N1-C6	8.00	1.42	1.37
1	N	1481	U	C2-N3	8.00	1.43	1.37
1	N	201	G	C5'-C4'	8.00	1.60	1.51
1	N	814	A	N3-C4	8.00	1.39	1.34
1	N	672	U	N3-C4	8.00	1.45	1.38
1	N	1111	A	C6-N6	8.00	1.40	1.33
1	N	273	U	N3-C4	7.99	1.45	1.38
1	N	984	C	C4-N4	7.99	1.41	1.33
1	N	319	G	N1-C2	7.99	1.44	1.37
1	N	470	C	P-O5'	-7.99	1.51	1.59
1	N	1490	U	C2-N3	7.99	1.43	1.37
1	N	51	A	C5'-C4'	7.99	1.60	1.51
1	N	74	A	C5'-C4'	7.98	1.60	1.51
1	N	476	U	N3-C4	7.98	1.45	1.38
1	N	59	A	N1-C2	7.98	1.41	1.34
1	N	198	G	C5'-C4'	7.98	1.60	1.51
1	N	426	U	P-O5'	-7.98	1.51	1.59
1	N	1280	A	C5-C4	-7.98	1.33	1.38
1	N	176	C	P-O5'	-7.98	1.51	1.59
1	N	681	A	C8-N7	-7.97	1.25	1.31
1	N	713	G	C5-C4	7.97	1.44	1.38
1	N	138	G	N7-C5	-7.97	1.34	1.39
1	N	601	G	N7-C5	-7.97	1.34	1.39
1	N	990	C	P-O5'	-7.97	1.51	1.59
1	N	593	U	C4'-C3'	-7.97	1.44	1.53
1	N	548	G	N1-C2	7.97	1.44	1.37
1	N	226	G	N3-C4	-7.96	1.29	1.35
1	N	238	A	C8-N7	7.96	1.37	1.31
1	N	1143	G	C5-C6	-7.96	1.34	1.42
1	N	468	A	C5'-C4'	7.95	1.60	1.51
1	N	1173	U	N1-C2	-7.95	1.31	1.38
1	N	1502	A	N7-C5	-7.95	1.34	1.39
1	N	228	A	N9-C4	-7.95	1.33	1.37
1	N	302	G	C8-N7	7.95	1.35	1.30
1	N	121	U	C2-N3	7.94	1.43	1.37
1	N	476	U	C4'-C3'	7.94	1.61	1.53
1	N	1272	G	C2-N3	7.94	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	158	G	C6-N1	7.94	1.45	1.39
1	N	446	G	N7-C5	-7.94	1.34	1.39
1	N	819	A	N3-C4	-7.94	1.30	1.34
1	N	68	G	C5-C6	-7.94	1.34	1.42
1	N	246	A	C5-C4	-7.94	1.33	1.38
1	N	497	G	N7-C5	-7.94	1.34	1.39
1	N	162	A	N9-C4	-7.93	1.33	1.37
1	N	1417	G	C4'-C3'	7.93	1.61	1.53
1	N	381	C	N1-C6	7.93	1.42	1.37
1	N	516	U	C2-N3	7.93	1.43	1.37
1	N	714	G	N1-C2	7.93	1.44	1.37
1	N	1143	G	N9-C8	7.93	1.43	1.37
1	N	1180	A	C8-N7	7.93	1.37	1.31
1	N	1219	A	C8-N7	-7.93	1.25	1.31
1	N	539	A	C5-C6	-7.93	1.33	1.41
1	N	806	C	C2-N3	7.93	1.42	1.35
1	N	15	G	N1-C2	7.92	1.44	1.37
1	N	177	G	C4'-C3'	7.92	1.61	1.53
1	N	833	G	C6-N1	7.92	1.45	1.39
1	N	1526	G	C6-N1	7.92	1.45	1.39
1	N	69	G	C8-N7	-7.92	1.26	1.30
1	N	485	U	C2'-C1'	-7.91	1.44	1.53
1	N	592	G	C5-C6	-7.91	1.34	1.42
1	N	885	G	C6-N1	7.91	1.45	1.39
1	N	1349	A	C3'-C2'	7.91	1.61	1.52
1	N	1250	A	P-O5'	-7.91	1.51	1.59
1	N	38	G	N9-C4	-7.90	1.31	1.38
1	N	226	G	P-O5'	-7.90	1.51	1.59
1	N	1354	U	C2-N3	7.89	1.43	1.37
1	N	730	G	N7-C5	-7.89	1.34	1.39
1	N	1077	G	P-O5'	-7.89	1.51	1.59
1	N	1211	U	C2'-C1'	-7.89	1.44	1.53
1	N	222	C	N1-C6	7.89	1.41	1.37
1	N	962	C	N3-C4	7.89	1.39	1.33
1	N	23	C	N3-C4	7.88	1.39	1.33
1	N	719	C	N3-C4	7.88	1.39	1.33
1	N	815	A	N9-C4	7.88	1.42	1.37
1	N	1417	G	N1-C2	7.88	1.44	1.37
1	N	510	A	O3'-P	-7.88	1.51	1.61
1	N	1486	G	C3'-C2'	-7.88	1.44	1.52
1	N	735	C	C2'-C1'	-7.88	1.44	1.53
1	N	973	G	N1-C2	7.88	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	983	A	C8-N7	-7.88	1.26	1.31
1	N	347	G	N3-C4	-7.88	1.29	1.35
1	N	341	C	P-O5'	-7.87	1.51	1.59
1	N	1053	G	C6-N1	7.87	1.45	1.39
1	N	1444	U	P-O5'	-7.87	1.51	1.59
1	N	415	A	C4'-C3'	-7.87	1.44	1.53
1	N	557	G	C2-N3	7.87	1.39	1.32
1	N	1037	C	C2-N3	7.87	1.42	1.35
1	N	1263	C	N3-C4	7.87	1.39	1.33
1	N	676	A	C6-N6	7.86	1.40	1.33
1	N	399	G	C6-N1	7.86	1.45	1.39
1	N	609	A	N7-C5	-7.86	1.34	1.39
1	N	282	A	C5-C4	7.85	1.44	1.38
1	N	1420	U	C2-N3	7.85	1.43	1.37
1	N	201	G	N9-C4	-7.85	1.31	1.38
1	N	397	A	C5-C4	7.85	1.44	1.38
1	N	1214	C	C1'-N1	7.85	1.60	1.48
1	N	1470	U	N3-C4	7.84	1.45	1.38
1	N	40	C	C4-N4	7.84	1.41	1.33
1	N	111	G	N1-C2	7.83	1.44	1.37
1	N	518	C	N3-C4	7.83	1.39	1.33
1	N	1287	A	C6-N6	7.83	1.40	1.33
1	N	1395	C	N1-C6	7.83	1.41	1.37
1	N	1383	C	N3-C4	7.83	1.39	1.33
1	N	1441	A	P-O5'	-7.82	1.51	1.59
1	N	206	C	C1'-N1	7.82	1.60	1.48
1	N	1468	A	C5-C4	7.82	1.44	1.38
1	N	1260	G	C8-N7	7.82	1.35	1.30
1	N	589	U	N3-C4	7.82	1.45	1.38
1	N	224	U	C2-N3	7.82	1.43	1.37
1	N	241	G	N9-C8	7.81	1.43	1.37
1	N	599	C	N3-C4	7.81	1.39	1.33
1	N	597	G	C8-N7	-7.81	1.26	1.30
1	N	1396	A	C5-C4	7.81	1.44	1.38
1	N	377	G	C2-N3	7.81	1.39	1.32
1	N	944	G	N1-C2	7.81	1.44	1.37
1	N	2	A	C6-N1	7.81	1.41	1.35
1	N	879	C	P-O5'	-7.81	1.51	1.59
1	N	632	U	N1-C2	7.80	1.45	1.38
1	N	954	G	C5-C4	7.80	1.43	1.38
1	N	10	A	C3'-C2'	7.80	1.61	1.52
1	N	1346	A	P-O5'	-7.80	1.51	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	385	C	C4'-O4'	7.79	1.55	1.45
1	N	492	C	N1-C6	7.79	1.41	1.37
1	N	1412	C	P-O5'	-7.79	1.51	1.59
1	N	1385	G	N1-C2	7.79	1.44	1.37
1	N	1520	C	O3'-P	-7.79	1.51	1.61
1	N	1087	G	C6-N1	7.79	1.45	1.39
1	N	954	G	C6-N1	7.79	1.45	1.39
1	N	1034	G	N3-C4	-7.78	1.30	1.35
1	N	1431	A	O3'-P	-7.78	1.51	1.61
1	N	1105	A	C6-N1	-7.77	1.30	1.35
1	N	1185	G	C5-C6	-7.77	1.34	1.42
1	N	1346	A	C6-N6	7.77	1.40	1.33
1	N	488	C	C4-N4	7.76	1.41	1.33
1	N	643	C	O4'-C1'	7.76	1.51	1.41
1	N	1198	G	N1-C2	7.76	1.44	1.37
1	N	345	C	C5-C6	7.76	1.40	1.34
1	N	995	C	C4-N4	7.76	1.41	1.33
1	N	848	C	N3-C4	7.76	1.39	1.33
1	N	1525	G	C4'-O4'	-7.76	1.35	1.45
1	N	1499	A	C2'-C1'	-7.75	1.44	1.53
1	N	660	C	C4-N4	7.75	1.41	1.33
1	N	711	G	N9-C4	-7.75	1.31	1.38
1	N	1455	G	N9-C8	7.75	1.43	1.37
1	N	301	G	N1-C2	7.75	1.44	1.37
1	N	944	G	C4'-C3'	-7.75	1.44	1.53
1	N	32	A	N9-C8	7.75	1.44	1.37
1	N	761	G	N3-C4	-7.74	1.30	1.35
1	N	231	U	C4-C5	7.74	1.50	1.43
1	N	278	G	C3'-C2'	7.74	1.61	1.52
1	N	1411	C	C4-C5	7.74	1.49	1.43
1	N	737	C	N1-C2	-7.74	1.32	1.40
1	N	1131	G	O3'-P	-7.74	1.51	1.61
1	N	448	A	C2-N3	7.74	1.40	1.33
1	N	1360	A	C2-N3	7.74	1.40	1.33
1	N	872	A	C8-N7	-7.74	1.26	1.31
1	N	471	U	C4'-C3'	7.73	1.61	1.53
1	N	1011	C	C5'-C4'	7.73	1.60	1.51
1	N	955	U	C4'-C3'	-7.73	1.44	1.53
1	N	1325	C	N1-C6	7.73	1.41	1.37
1	N	482	A	C4'-C3'	-7.73	1.44	1.53
1	N	832	G	N9-C4	-7.73	1.31	1.38
1	N	432	A	N1-C2	7.73	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	829	G	C2-N3	7.73	1.39	1.32
1	N	879	C	C5-C6	-7.73	1.28	1.34
1	N	1333	A	C5-C4	7.73	1.44	1.38
1	N	446	G	N1-C2	7.72	1.44	1.37
1	N	557	G	C2-N2	7.72	1.42	1.34
1	N	434	U	C3'-C2'	-7.72	1.44	1.52
1	N	369	G	C2-N3	7.72	1.39	1.32
1	N	331	G	C6-N1	7.71	1.45	1.39
1	N	703	G	O4'-C1'	-7.71	1.31	1.41
1	N	1000	A	C6-N6	7.71	1.40	1.33
1	N	1099	G	N9-C8	7.71	1.43	1.37
1	N	54	C	C2-N3	-7.71	1.29	1.35
1	N	641	U	O3'-P	-7.71	1.51	1.61
1	N	1362	A	N9-C4	7.71	1.42	1.37
1	N	501	C	C1'-N1	7.71	1.60	1.48
1	N	446	G	C2'-C1'	-7.70	1.44	1.53
1	N	748	G	C2'-C1'	-7.70	1.44	1.53
1	N	203	G	N3-C4	7.70	1.40	1.35
1	N	444	G	C6-N1	7.70	1.45	1.39
1	N	335	C	O3'-P	-7.70	1.51	1.61
1	N	6	G	N1-C2	7.70	1.44	1.37
1	N	250	A	C3'-C2'	-7.70	1.44	1.52
1	N	444	G	C2-N2	7.70	1.42	1.34
1	N	495	A	C5-C4	7.70	1.44	1.38
1	N	824	G	C6-N1	7.70	1.45	1.39
1	N	1106	G	C5-C6	-7.70	1.34	1.42
1	N	1519	A	C6-N6	7.70	1.40	1.33
1	N	6	G	C4'-C3'	7.69	1.61	1.53
1	N	1339	A	C6-N6	7.69	1.40	1.33
1	N	878	A	C4'-O4'	7.69	1.55	1.45
1	N	933	G	N7-C5	-7.69	1.34	1.39
1	N	256	U	C2-O2	7.69	1.29	1.22
1	N	1323	G	C2-N3	7.69	1.39	1.32
1	N	1410	A	O4'-C1'	7.69	1.51	1.41
1	N	78	A	C6-N1	7.68	1.41	1.35
1	N	501	C	N3-C4	7.68	1.39	1.33
1	N	539	A	C6-N6	7.68	1.40	1.33
1	N	770	C	C2-N3	7.68	1.41	1.35
1	N	1034	G	N7-C5	-7.68	1.34	1.39
1	N	1445	U	C2-N3	7.68	1.43	1.37
1	N	864	A	C6-N1	7.68	1.41	1.35
1	N	46	G	N7-C5	7.68	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	856	C	N1-C6	-7.67	1.32	1.37
1	N	1089	G	C2-N3	7.67	1.38	1.32
1	N	1459	G	C5-C4	7.67	1.43	1.38
1	N	1463	U	C4-C5	7.67	1.50	1.43
1	N	338	A	O4'-C1'	7.67	1.51	1.41
1	N	668	G	C2-N2	7.67	1.42	1.34
1	N	148	G	C8-N7	7.67	1.35	1.30
1	N	300	A	C6-N6	7.67	1.40	1.33
1	N	451	A	C1'-N9	-7.67	1.36	1.46
1	N	569	C	P-O5'	-7.67	1.52	1.59
1	N	604	G	N9-C8	-7.67	1.32	1.37
1	N	249	U	P-O5'	-7.67	1.52	1.59
1	N	745	G	C2'-C1'	-7.66	1.45	1.53
1	N	815	A	C6-N6	7.66	1.40	1.33
1	N	86	G	C4'-C3'	7.66	1.61	1.53
1	N	1169	A	N7-C5	-7.66	1.34	1.39
1	N	1214	C	C4-N4	7.66	1.40	1.33
1	N	1530	G	C5-C6	-7.66	1.34	1.42
1	N	129	A	P-O5'	-7.66	1.52	1.59
1	N	309	A	C5-C6	-7.66	1.34	1.41
1	N	70	U	C5'-C4'	7.65	1.60	1.51
1	N	86	G	N9-C4	7.65	1.44	1.38
1	N	524	G	C8-N7	-7.65	1.26	1.30
1	N	601	G	C4'-C3'	7.65	1.61	1.53
1	N	907	A	N3-C4	-7.65	1.30	1.34
1	N	1135	U	C5-C6	7.65	1.41	1.34
1	N	161	A	N9-C4	-7.65	1.33	1.37
1	N	1052	U	N1-C6	7.65	1.44	1.38
1	N	1290	G	C2-N2	7.65	1.42	1.34
1	N	109	A	N9-C4	7.65	1.42	1.37
1	N	21	G	N3-C4	-7.64	1.30	1.35
1	N	1071	C	N1-C6	7.64	1.41	1.37
1	N	1077	G	N7-C5	-7.64	1.34	1.39
1	N	1523	G	N3-C4	7.64	1.40	1.35
1	N	1424	U	C2-N3	7.64	1.43	1.37
1	N	143	A	C2'-C1'	7.64	1.61	1.53
1	N	968	A	C8-N7	-7.64	1.26	1.31
1	N	146	G	C8-N7	-7.63	1.26	1.30
1	N	242	G	C8-N7	-7.63	1.26	1.30
1	N	1311	A	N7-C5	-7.63	1.34	1.39
1	N	227	G	N1-C2	7.63	1.43	1.37
1	N	544	G	N1-C2	7.63	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1187	G	P-O5'	7.63	1.67	1.59
1	N	143	A	C6-N6	7.63	1.40	1.33
1	N	167	A	C6-N6	7.63	1.40	1.33
1	N	1312	G	N9-C8	7.63	1.43	1.37
1	N	102	G	C6-N1	7.62	1.44	1.39
1	N	771	G	N9-C4	7.62	1.44	1.38
1	N	1152	A	P-O5'	-7.62	1.52	1.59
1	N	288	A	C5-C4	7.62	1.44	1.38
1	N	1004	A	N9-C4	-7.62	1.33	1.37
1	N	1528	U	P-O5'	7.62	1.67	1.59
1	N	643	C	N1-C6	7.62	1.41	1.37
1	N	1358	U	C4-C5	7.62	1.50	1.43
1	N	674	G	O3'-P	-7.62	1.52	1.61
1	N	773	G	C5-C4	-7.62	1.33	1.38
1	N	1430	A	C5-C4	7.62	1.44	1.38
1	N	265	G	C6-N1	7.62	1.44	1.39
1	N	321	A	N7-C5	-7.62	1.34	1.39
1	N	1175	G	C3'-O3'	7.61	1.52	1.42
1	N	1423	G	N9-C4	-7.61	1.31	1.38
1	N	512	U	C5'-C4'	7.61	1.60	1.51
1	N	568	G	N1-C2	7.61	1.43	1.37
1	N	804	U	N3-C4	7.61	1.45	1.38
1	N	671	G	C2-N2	7.61	1.42	1.34
1	N	8	A	C6-N1	7.60	1.40	1.35
1	N	12	U	C5'-C4'	7.60	1.60	1.51
1	N	168	G	C5-C6	-7.60	1.34	1.42
1	N	751	U	C2-N3	7.60	1.43	1.37
1	N	449	G	C2-N3	7.60	1.38	1.32
1	N	558	G	C8-N7	7.60	1.35	1.30
1	N	833	G	C3'-O3'	7.60	1.52	1.42
1	N	388	G	N9-C4	-7.60	1.31	1.38
1	N	127	G	C2-N3	7.60	1.38	1.32
1	N	190	A	N3-C4	7.60	1.39	1.34
1	N	348	G	N1-C2	7.60	1.43	1.37
1	N	814	A	O3'-P	-7.60	1.52	1.61
1	N	864	A	N7-C5	-7.59	1.34	1.39
1	N	1410	A	C5-C4	7.59	1.44	1.38
1	N	834	U	C2-N3	7.59	1.43	1.37
1	N	706	A	C8-N7	-7.59	1.26	1.31
1	N	1489	G	C6-N1	7.59	1.44	1.39
1	N	926	G	C2'-C1'	-7.58	1.45	1.53
1	N	170	U	C3'-C2'	7.58	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	716	A	P-O5'	-7.58	1.52	1.59
1	N	343	U	C4-C5	7.58	1.50	1.43
1	N	348	G	C8-N7	-7.58	1.26	1.30
1	N	417	G	C8-N7	7.58	1.35	1.30
1	N	479	U	N3-C4	7.58	1.45	1.38
1	N	894	G	N3-C4	-7.58	1.30	1.35
1	N	334	C	C2-N3	7.58	1.41	1.35
1	N	1050	G	C2-N3	7.58	1.38	1.32
1	N	151	A	C3'-C2'	7.58	1.61	1.52
1	N	637	C	N3-C4	7.58	1.39	1.33
1	N	216	U	O3'-P	-7.58	1.52	1.61
1	N	1407	C	C4'-O4'	-7.58	1.35	1.45
1	N	808	C	C5'-C4'	7.57	1.60	1.51
1	N	1045	C	C4-N4	7.57	1.40	1.33
1	N	464	U	C2-N3	7.57	1.43	1.37
1	N	504	C	C2-N3	7.57	1.41	1.35
1	N	882	C	C4-C5	7.57	1.49	1.43
1	N	1453	G	C8-N7	-7.57	1.26	1.30
1	N	295	C	P-O5'	-7.57	1.52	1.59
1	N	1105	A	N9-C4	-7.57	1.33	1.37
1	N	522	C	P-O5'	-7.56	1.52	1.59
1	N	670	G	C5-C4	-7.56	1.33	1.38
1	N	941	G	N7-C5	-7.56	1.34	1.39
1	N	49	U	C5'-C4'	7.55	1.60	1.51
1	N	552	U	N3-C4	7.55	1.45	1.38
1	N	869	G	C6-N1	7.55	1.44	1.39
1	N	696	A	C6-N1	7.55	1.40	1.35
1	N	780	A	N9-C4	-7.55	1.33	1.37
1	N	556	C	C2-N3	7.55	1.41	1.35
1	N	625	U	N3-C4	7.54	1.45	1.38
1	N	590	U	C5'-C4'	7.54	1.60	1.51
1	N	1382	C	N1-C6	-7.54	1.32	1.37
1	N	153	C	N1-C6	7.54	1.41	1.37
1	N	262	A	C2'-O2'	-7.54	1.31	1.41
1	N	1003	G	N9-C8	7.54	1.43	1.37
1	N	954	G	C2-N3	7.54	1.38	1.32
1	N	1239	A	C6-N6	7.54	1.40	1.33
1	N	431	A	N9-C8	-7.53	1.31	1.37
1	N	439	U	N1-C6	7.53	1.44	1.38
1	N	761	G	O3'-P	-7.53	1.52	1.61
1	N	970	C	N3-C4	7.53	1.39	1.33
1	N	1439	G	C8-N7	-7.53	1.26	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	9	G	P-O5'	-7.53	1.52	1.59
1	N	130	A	C5'-C4'	7.53	1.60	1.51
1	N	1159	U	O3'-P	-7.53	1.52	1.61
1	N	71	A	C5'-C4'	7.52	1.60	1.51
1	N	575	G	N9-C4	-7.52	1.31	1.38
1	N	1068	G	C2-N3	7.52	1.38	1.32
1	N	891	U	C4'-C3'	7.52	1.61	1.53
1	N	1325	C	C2-N3	7.52	1.41	1.35
1	N	1022	A	C5'-C4'	7.52	1.60	1.51
1	N	151	A	P-O5'	7.51	1.67	1.59
1	N	535	A	C5'-C4'	7.51	1.60	1.51
1	N	1279	G	N7-C5	-7.51	1.34	1.39
1	N	215	C	P-O5'	-7.51	1.52	1.59
1	N	1249	C	N1-C6	7.51	1.41	1.37
1	N	1442	G	N9-C4	-7.51	1.31	1.38
1	N	592	G	N3-C4	-7.51	1.30	1.35
1	N	1263	C	P-O5'	-7.51	1.52	1.59
1	N	190	A	N7-C5	-7.50	1.34	1.39
1	N	1145	A	C6-N1	7.50	1.40	1.35
1	N	901	A	C4'-O4'	7.50	1.55	1.45
1	N	1064	G	C2-N2	7.50	1.42	1.34
1	N	1185	G	N1-C2	7.50	1.43	1.37
1	N	108	G	C5'-C4'	7.50	1.60	1.51
1	N	211	G	N7-C5	-7.50	1.34	1.39
1	N	901	A	C6-N6	7.50	1.40	1.33
1	N	1455	G	N1-C2	7.49	1.43	1.37
1	N	392	C	N3-C4	7.49	1.39	1.33
1	N	461	A	C6-N1	7.48	1.40	1.35
1	N	1078	U	C4-C5	7.48	1.50	1.43
1	N	15	G	N9-C4	7.48	1.44	1.38
1	N	637	C	N1-C6	7.48	1.41	1.37
1	N	874	G	N1-C2	7.48	1.43	1.37
1	N	322	C	N1-C6	7.48	1.41	1.37
1	N	1222	G	C5-C4	-7.47	1.33	1.38
1	N	334	C	N3-C4	7.47	1.39	1.33
1	N	1102	A	N7-C5	-7.47	1.34	1.39
1	N	1332	A	C6-N6	7.47	1.40	1.33
1	N	378	G	N1-C2	7.47	1.43	1.37
1	N	445	G	N9-C8	7.47	1.43	1.37
1	N	479	U	N1-C2	-7.47	1.31	1.38
1	N	703	G	N1-C2	7.47	1.43	1.37
1	N	135	C	P-O5'	-7.46	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	51	A	C6-N1	7.46	1.40	1.35
1	N	412	A	C8-N7	-7.46	1.26	1.31
1	N	1021	A	C5-C4	7.46	1.44	1.38
1	N	310	G	C2-N3	7.45	1.38	1.32
1	N	1515	G	N7-C5	-7.45	1.34	1.39
1	N	261	U	C4'-C3'	-7.45	1.45	1.53
1	N	817	C	P-O5'	-7.45	1.52	1.59
1	N	1151	A	N7-C5	-7.45	1.34	1.39
1	N	977	A	C6-N6	7.45	1.40	1.33
1	N	1338	G	C4'-C3'	-7.44	1.45	1.53
1	N	1349	A	C5'-C4'	7.44	1.60	1.51
1	N	31	G	N7-C5	-7.44	1.34	1.39
1	N	500	G	C2-N3	7.44	1.38	1.32
1	N	546	A	C5'-C4'	7.44	1.60	1.51
1	N	129	A	C6-N6	7.44	1.40	1.33
1	N	627	G	C6-N1	7.44	1.44	1.39
1	N	790	A	N9-C4	-7.44	1.33	1.37
1	N	710	G	C6-N1	7.43	1.44	1.39
1	N	1020	G	N9-C4	-7.43	1.32	1.38
1	N	966	G	C1'-N9	7.43	1.59	1.48
1	N	986	U	C4-C5	7.43	1.50	1.43
1	N	1211	U	C4'-C3'	7.43	1.61	1.53
1	N	1237	C	N1-C6	7.43	1.41	1.37
1	N	1408	A	N9-C8	-7.43	1.31	1.37
1	N	719	C	N1-C2	7.42	1.47	1.40
1	N	36	C	C4-C5	7.42	1.48	1.43
1	N	658	C	C4-C5	7.42	1.48	1.43
1	N	45	G	N7-C5	-7.42	1.34	1.39
1	N	927	G	N9-C4	-7.42	1.32	1.38
1	N	938	A	N9-C4	7.42	1.42	1.37
1	N	189	A	N9-C4	7.41	1.42	1.37
1	N	725	G	C4'-C3'	7.41	1.61	1.53
1	N	295	C	N1-C6	-7.41	1.32	1.37
1	N	657	U	N1-C2	7.41	1.45	1.38
1	N	1175	G	C2-N2	7.41	1.42	1.34
1	N	421	U	C4-O4	7.41	1.29	1.23
1	N	1343	G	C6-N1	7.41	1.44	1.39
1	N	1371	G	C5-C4	7.40	1.43	1.38
1	N	174	A	P-O5'	-7.40	1.52	1.59
1	N	356	A	N7-C5	-7.40	1.34	1.39
1	N	586	C	P-O5'	-7.40	1.52	1.59
1	N	696	A	C6-N6	7.40	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1130	A	P-O5'	-7.40	1.52	1.59
1	N	1311	A	N1-C2	7.40	1.41	1.34
1	N	1193	G	N1-C2	7.40	1.43	1.37
1	N	762	U	P-O5'	-7.39	1.52	1.59
1	N	1229	A	C6-N1	7.39	1.40	1.35
1	N	218	U	C2-N3	7.39	1.43	1.37
1	N	651	C	C4-N4	7.39	1.40	1.33
1	N	93	U	C3'-C2'	-7.38	1.44	1.52
1	N	1173	U	C2-N3	7.38	1.43	1.37
1	N	116	A	C4'-C3'	7.38	1.61	1.53
1	N	727	G	C5-C6	-7.38	1.34	1.42
1	N	909	A	C4'-C3'	7.38	1.61	1.53
1	N	1272	G	C2'-C1'	-7.38	1.45	1.53
1	N	1039	G	N7-C5	-7.38	1.34	1.39
1	N	554	A	C8-N7	-7.38	1.26	1.31
1	N	1354	U	C4'-C3'	7.38	1.61	1.53
1	N	536	C	P-O5'	-7.38	1.52	1.59
1	N	1196	A	N9-C4	-7.38	1.33	1.37
1	N	1347	G	C2'-C1'	-7.38	1.45	1.53
1	N	788	U	C5'-C4'	7.37	1.60	1.51
1	N	907	A	C5'-C4'	7.37	1.60	1.51
1	N	1013	G	N7-C5	-7.37	1.34	1.39
1	N	1174	G	N3-C4	-7.37	1.30	1.35
1	N	378	G	C2-N3	7.37	1.38	1.32
1	N	616	G	N1-C2	7.37	1.43	1.37
1	N	790	A	C6-N6	7.37	1.39	1.33
1	N	243	A	C5-C4	7.37	1.44	1.38
1	N	1111	A	C5-C4	7.37	1.44	1.38
1	N	1439	G	N1-C2	7.37	1.43	1.37
1	N	126	G	N9-C4	-7.37	1.32	1.38
1	N	787	A	N9-C4	-7.37	1.33	1.37
1	N	1359	C	C2'-C1'	-7.37	1.45	1.53
1	N	189	A	C8-N7	-7.36	1.26	1.31
1	N	1093	A	C6-N1	7.36	1.40	1.35
1	N	265	G	C5-C4	7.36	1.43	1.38
1	N	568	G	N7-C5	7.36	1.43	1.39
1	N	1132	C	P-O5'	-7.36	1.52	1.59
1	N	393	A	C5-C6	7.36	1.47	1.41
1	N	935	A	C2-N3	7.36	1.40	1.33
1	N	878	A	C6-N6	7.36	1.39	1.33
1	N	1337	G	C2-N3	7.36	1.38	1.32
1	N	212	G	N3-C4	-7.35	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1525	G	N9-C8	7.35	1.43	1.37
1	N	374	A	O4'-C1'	-7.35	1.32	1.41
1	N	682	G	C2-N2	7.35	1.42	1.34
1	N	602	A	O3'-P	-7.35	1.52	1.61
1	N	985	C	C5'-C4'	7.35	1.60	1.51
1	N	1007	U	N1-C6	7.35	1.44	1.38
1	N	1113	C	C4-N4	7.34	1.40	1.33
1	N	1474	U	C4-C5	7.34	1.50	1.43
1	N	728	A	N9-C4	-7.34	1.33	1.37
1	N	154	U	N3-C4	7.34	1.45	1.38
1	N	177	G	C5-C4	7.34	1.43	1.38
1	N	858	G	C8-N7	7.34	1.35	1.30
1	N	647	C	N3-C4	7.34	1.39	1.33
1	N	846	G	C4'-C3'	7.34	1.61	1.53
1	N	946	A	C4'-C3'	7.34	1.61	1.53
1	N	16	A	N7-C5	-7.33	1.34	1.39
1	N	248	C	N1-C6	7.33	1.41	1.37
1	N	1466	C	N1-C6	-7.33	1.32	1.37
1	N	222	C	P-O5'	7.33	1.67	1.59
1	N	1241	G	C4'-O4'	7.33	1.55	1.45
1	N	1248	A	C8-N7	-7.33	1.26	1.31
1	N	1530	G	C2-N3	7.33	1.38	1.32
1	N	1531	A	C6-N6	7.33	1.39	1.33
1	N	89	U	C2-N3	7.33	1.42	1.37
1	N	11	G	N1-C2	7.33	1.43	1.37
1	N	477	C	C4'-O4'	7.33	1.55	1.45
1	N	995	C	C4'-O4'	-7.33	1.36	1.45
1	N	287	U	N1-C2	7.32	1.45	1.38
1	N	575	G	N1-C2	7.32	1.43	1.37
1	N	729	A	C6-N1	7.32	1.40	1.35
1	N	252	U	C4'-C3'	-7.32	1.45	1.53
1	N	904	U	C2-N3	7.32	1.42	1.37
1	N	1368	A	N3-C4	7.32	1.39	1.34
1	N	981	U	N1-C6	-7.32	1.31	1.38
1	N	1336	C	N1-C6	7.32	1.41	1.37
1	N	1337	G	C2'-C1'	-7.32	1.45	1.53
1	N	1369	C	P-O5'	-7.32	1.52	1.59
1	N	47	C	N1-C6	-7.32	1.32	1.37
1	N	1324	A	C6-N6	7.32	1.39	1.33
1	N	353	A	C5-C4	-7.32	1.33	1.38
1	N	603	U	P-O5'	-7.32	1.52	1.59
1	N	1151	A	C5'-C4'	7.32	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1057	G	N7-C5	-7.31	1.34	1.39
1	N	65	A	N3-C4	7.31	1.39	1.34
1	N	639	G	O3'-P	-7.31	1.52	1.61
1	N	581	G	C2'-C1'	-7.31	1.45	1.53
1	N	827	U	C4'-C3'	7.31	1.61	1.53
1	N	391	G	N1-C2	7.30	1.43	1.37
1	N	369	G	C5-C4	7.30	1.43	1.38
1	N	422	C	C2-N3	7.30	1.41	1.35
1	N	1278	G	C2'-C1'	-7.30	1.45	1.53
1	N	1290	G	N9-C8	7.30	1.43	1.37
1	N	1452	C	C5-C6	-7.30	1.28	1.34
1	N	874	G	C4'-C3'	7.30	1.61	1.53
1	N	1043	G	C6-O6	-7.30	1.17	1.24
1	N	447	G	N1-C2	7.30	1.43	1.37
1	N	997	U	O3'-P	-7.30	1.52	1.61
1	N	145	G	N3-C4	7.30	1.40	1.35
1	N	285	C	C2-N3	-7.30	1.29	1.35
1	N	1005	A	C5'-C4'	7.30	1.60	1.51
1	N	261	U	C3'-C2'	7.29	1.60	1.52
1	N	133	U	C4-C5	7.29	1.50	1.43
1	N	597	G	C3'-C2'	-7.29	1.44	1.52
1	N	220	G	C4'-O4'	7.29	1.55	1.45
1	N	1149	C	C2-N3	-7.29	1.29	1.35
1	N	117	G	N1-C2	7.29	1.43	1.37
1	N	674	G	C2'-C1'	-7.28	1.45	1.53
1	N	1279	G	N9-C4	-7.28	1.32	1.38
1	N	318	G	N3-C4	-7.28	1.30	1.35
1	N	441	A	N7-C5	-7.28	1.34	1.39
1	N	250	A	N7-C5	-7.28	1.34	1.39
1	N	167	A	C5-C4	7.28	1.43	1.38
1	N	199	A	O3'-P	-7.28	1.52	1.61
1	N	742	G	C8-N7	-7.28	1.26	1.30
1	N	1524	C	N3-C4	7.28	1.39	1.33
1	N	1306	A	N3-C4	7.27	1.39	1.34
1	N	620	C	N1-C6	7.27	1.41	1.37
1	N	130	A	C6-N6	7.27	1.39	1.33
1	N	197	A	N7-C5	-7.26	1.34	1.39
1	N	831	A	C6-N6	7.26	1.39	1.33
1	N	1458	G	N1-C2	7.26	1.43	1.37
1	N	838	G	C2-N2	7.26	1.41	1.34
1	N	1421	G	C2-N3	7.26	1.38	1.32
1	N	1002	G	C6-N1	7.26	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	271	C	C4-C5	7.26	1.48	1.43
1	N	971	G	C2-N3	7.26	1.38	1.32
1	N	627	G	N9-C4	-7.25	1.32	1.38
1	N	670	G	C2-N3	-7.25	1.26	1.32
1	N	450	G	N9-C4	-7.25	1.32	1.38
1	N	78	A	C6-N6	7.25	1.39	1.33
1	N	315	A	C4'-C3'	7.25	1.61	1.53
1	N	1098	C	C4'-C3'	-7.25	1.45	1.53
1	N	584	G	C6-N1	7.25	1.44	1.39
1	N	889	A	C6-N1	7.25	1.40	1.35
1	N	982	U	C3'-C2'	7.25	1.60	1.52
1	N	1501	C	C1'-N1	7.25	1.59	1.48
1	N	942	G	C8-N7	-7.25	1.26	1.30
1	N	630	A	C5-C4	7.24	1.43	1.38
1	N	753	A	C2'-C1'	-7.24	1.45	1.53
1	N	307	C	N3-C4	7.24	1.39	1.33
1	N	588	G	N1-C2	7.24	1.43	1.37
1	N	1274	A	O3'-P	7.24	1.69	1.61
1	N	106	C	C2'-C1'	-7.24	1.45	1.53
1	N	515	G	N1-C2	7.24	1.43	1.37
1	N	758	C	N1-C6	-7.24	1.32	1.37
1	N	1002	G	C2'-C1'	7.24	1.61	1.53
1	N	538	G	C3'-C2'	7.23	1.60	1.52
1	N	611	C	C2-N3	7.23	1.41	1.35
1	N	1340	A	C6-N6	7.23	1.39	1.33
1	N	1197	A	O4'-C1'	-7.23	1.32	1.41
1	N	1062	U	C2-N3	7.23	1.42	1.37
1	N	240	G	N1-C2	7.23	1.43	1.37
1	N	492	C	C4-N4	-7.23	1.27	1.33
1	N	1228	C	C3'-C2'	7.23	1.60	1.52
1	N	68	G	N1-C2	7.23	1.43	1.37
1	N	1005	A	C6-N1	7.23	1.40	1.35
1	N	1303	C	O4'-C1'	7.23	1.51	1.41
1	N	1320	C	C4-N4	7.22	1.40	1.33
1	N	126	G	N3-C4	-7.22	1.30	1.35
1	N	203	G	C2-N2	7.22	1.41	1.34
1	N	344	A	N7-C5	-7.22	1.34	1.39
1	N	1001	C	P-O5'	-7.22	1.52	1.59
1	N	410	G	C5-C6	-7.22	1.35	1.42
1	N	1182	G	C4'-O4'	-7.21	1.36	1.45
1	N	1306	A	N1-C2	-7.21	1.27	1.34
1	N	627	G	N3-C4	7.21	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	749	A	C4'-C3'	-7.21	1.45	1.53
1	N	354	G	C8-N7	-7.21	1.26	1.30
1	N	456	A	C6-N6	7.21	1.39	1.33
1	N	607	A	N9-C4	7.21	1.42	1.37
1	N	369	G	O3'-P	-7.21	1.52	1.61
1	N	1399	C	C1'-N1	7.21	1.59	1.48
1	N	78	A	C5'-C4'	7.20	1.59	1.51
1	N	863	U	C2-N3	7.20	1.42	1.37
1	N	1168	U	C5'-C4'	7.20	1.59	1.51
1	N	620	C	C5-C6	-7.20	1.28	1.34
1	N	1215	G	N9-C4	7.20	1.43	1.38
1	N	1379	G	C5-C4	-7.20	1.33	1.38
1	N	95	C	C4-N4	7.20	1.40	1.33
1	N	557	G	C6-N1	7.20	1.44	1.39
1	N	591	U	C5'-C4'	7.20	1.59	1.51
1	N	1027	C	C2-N3	7.20	1.41	1.35
1	N	1029	U	N3-C4	7.20	1.45	1.38
1	N	1485	U	C2-N3	7.20	1.42	1.37
1	N	62	U	C4'-O4'	-7.19	1.36	1.45
1	N	553	A	N9-C8	7.19	1.43	1.37
1	N	1252	A	C6-N6	7.19	1.39	1.33
1	N	407	U	O3'-P	-7.19	1.52	1.61
1	N	622	A	C5-C6	7.19	1.47	1.41
1	N	1108	G	N1-C2	7.18	1.43	1.37
1	N	1215	G	C2'-C1'	-7.18	1.45	1.53
1	N	1454	G	N1-C2	7.18	1.43	1.37
1	N	977	A	N9-C8	7.18	1.43	1.37
1	N	19	A	C2-N3	7.18	1.40	1.33
1	N	480	U	C3'-C2'	7.18	1.60	1.52
1	N	1522	U	P-O5'	-7.18	1.52	1.59
1	N	155	A	C2-N3	-7.17	1.27	1.33
1	N	677	U	C2'-C1'	-7.17	1.45	1.53
1	N	1434	A	C6-N6	7.17	1.39	1.33
1	N	1474	U	C2'-C1'	-7.17	1.45	1.53
1	N	142	G	O3'-P	-7.17	1.52	1.61
1	N	436	C	N3-C4	7.17	1.39	1.33
1	N	1101	A	C5-C6	7.17	1.47	1.41
1	N	235	C	N1-C6	7.17	1.41	1.37
1	N	745	G	N1-C2	7.17	1.43	1.37
1	N	804	U	C4-C5	-7.17	1.37	1.43
1	N	1187	G	N1-C2	7.17	1.43	1.37
1	N	1332	A	C5'-C4'	7.17	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1324	A	N9-C4	-7.17	1.33	1.37
1	N	824	G	N9-C4	-7.17	1.32	1.38
1	N	81	A	N3-C4	-7.16	1.30	1.34
1	N	152	A	N3-C4	-7.16	1.30	1.34
1	N	690	G	N7-C5	-7.16	1.34	1.39
1	N	46	G	N1-C2	7.16	1.43	1.37
1	N	1367	C	N3-C4	7.16	1.39	1.33
1	N	811	C	C4-N4	7.16	1.40	1.33
1	N	960	U	C3'-C2'	7.16	1.60	1.52
1	N	1006	G	N3-C4	-7.16	1.30	1.35
1	N	1013	G	C2'-C1'	-7.16	1.45	1.53
1	N	559	A	P-O5'	-7.16	1.52	1.59
1	N	152	A	C2'-C1'	-7.16	1.45	1.53
1	N	1415	G	N3-C4	-7.16	1.30	1.35
1	N	1415	G	N1-C2	7.15	1.43	1.37
1	N	39	G	N9-C8	7.15	1.42	1.37
1	N	66	A	N3-C4	-7.15	1.30	1.34
1	N	818	G	C2-N3	7.15	1.38	1.32
1	N	706	A	N1-C2	7.15	1.40	1.34
1	N	660	C	C4-C5	-7.15	1.37	1.43
1	N	670	G	N7-C5	7.15	1.43	1.39
1	N	1269	A	C6-N6	7.15	1.39	1.33
1	N	1279	G	C5-C6	-7.15	1.35	1.42
1	N	1313	U	C5'-C4'	7.15	1.59	1.51
1	N	801	U	C2'-C1'	-7.15	1.45	1.53
1	N	1446	A	N9-C8	7.15	1.43	1.37
1	N	286	C	N3-C4	7.14	1.39	1.33
1	N	1042	A	C5-C4	7.14	1.43	1.38
1	N	736	C	N3-C4	7.14	1.39	1.33
1	N	913	A	C6-N1	7.14	1.40	1.35
1	N	1419	G	C6-N1	7.14	1.44	1.39
1	N	430	A	C2'-C1'	-7.14	1.45	1.53
1	N	1196	A	N9-C8	7.14	1.43	1.37
1	N	32	A	C6-N1	7.14	1.40	1.35
1	N	145	G	N9-C8	7.14	1.42	1.37
1	N	1065	U	C4-C5	7.14	1.50	1.43
1	N	348	G	C2-N2	7.13	1.41	1.34
1	N	1180	A	N3-C4	-7.13	1.30	1.34
1	N	32	A	C6-N6	7.13	1.39	1.33
1	N	507	C	N1-C6	7.13	1.41	1.37
1	N	1379	G	C8-N7	-7.13	1.26	1.30
1	N	9	G	C4'-C3'	-7.13	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1188	A	C6-N1	7.13	1.40	1.35
1	N	639	G	N9-C8	-7.13	1.32	1.37
1	N	1044	A	O4'-C1'	-7.12	1.32	1.41
1	N	436	C	N1-C6	7.12	1.41	1.37
1	N	454	G	C6-O6	-7.12	1.17	1.24
1	N	656	G	C8-N7	-7.12	1.26	1.30
1	N	729	A	N7-C5	-7.12	1.34	1.39
1	N	909	A	N1-C2	-7.12	1.27	1.34
1	N	316	C	N3-C4	7.12	1.39	1.33
1	N	608	A	N9-C4	7.12	1.42	1.37
1	N	1089	G	N1-C2	7.12	1.43	1.37
1	N	1455	G	C2-N3	7.12	1.38	1.32
1	N	1406	U	C2-N3	7.12	1.42	1.37
1	N	140	U	N1-C2	7.11	1.45	1.38
1	N	1410	A	C6-N1	7.11	1.40	1.35
1	N	1249	C	C5'-C4'	7.11	1.59	1.51
1	N	1338	G	N9-C8	7.11	1.42	1.37
1	N	1476	A	O3'-P	-7.11	1.52	1.61
1	N	729	A	N3-C4	-7.11	1.30	1.34
1	N	1125	U	C2-N3	7.11	1.42	1.37
1	N	168	G	N3-C4	-7.11	1.30	1.35
1	N	347	G	C2'-C1'	-7.11	1.45	1.53
1	N	695	A	C6-N6	7.11	1.39	1.33
1	N	1181	G	C4'-O4'	7.10	1.54	1.45
1	N	1523	G	N9-C8	7.10	1.42	1.37
1	N	566	G	C6-N1	7.10	1.44	1.39
1	N	254	G	N9-C8	-7.10	1.32	1.37
1	N	22	G	C2-N3	7.10	1.38	1.32
1	N	949	A	C6-N1	7.10	1.40	1.35
1	N	1199	U	C1'-N1	7.10	1.59	1.48
1	N	554	A	C5-C6	7.10	1.47	1.41
1	N	880	C	N1-C6	7.10	1.41	1.37
1	N	57	G	C8-N7	-7.09	1.26	1.30
1	N	718	A	C6-N1	7.09	1.40	1.35
1	N	906	A	N9-C4	7.09	1.42	1.37
1	N	1459	G	N7-C5	-7.09	1.34	1.39
1	N	23	C	P-O5'	-7.09	1.52	1.59
1	N	887	G	O3'-P	7.09	1.69	1.61
1	N	1434	A	C2'-C1'	-7.09	1.45	1.53
1	N	1447	A	N9-C4	-7.09	1.33	1.37
1	N	194	C	C4'-C3'	-7.09	1.45	1.53
1	N	1382	C	C4-N4	7.09	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1131	G	N1-C2	7.08	1.43	1.37
1	N	1146	A	N9-C4	7.08	1.42	1.37
1	N	1241	G	C5'-C4'	7.08	1.59	1.51
1	N	1491	G	N1-C2	7.08	1.43	1.37
1	N	1407	C	N1-C2	-7.08	1.33	1.40
1	N	246	A	C2-N3	7.08	1.40	1.33
1	N	797	C	N3-C4	7.08	1.39	1.33
1	N	60	A	C5-C4	7.08	1.43	1.38
1	N	889	A	C8-N7	-7.08	1.26	1.31
1	N	472	U	N3-C4	7.07	1.44	1.38
1	N	203	G	N7-C5	-7.07	1.35	1.39
1	N	1359	C	N3-C4	7.07	1.39	1.33
1	N	1117	A	N3-C4	-7.07	1.30	1.34
1	N	1171	A	N3-C4	-7.07	1.30	1.34
1	N	1482	G	C5-C4	-7.07	1.33	1.38
1	N	134	G	C2-N3	7.07	1.38	1.32
1	N	656	G	C2-N3	7.07	1.38	1.32
1	N	1457	G	C2-N3	7.07	1.38	1.32
1	N	1502	A	O3'-P	-7.07	1.52	1.61
1	N	225	C	C4-N4	7.06	1.40	1.33
1	N	537	G	C2-N2	7.06	1.41	1.34
1	N	1203	C	C2'-C1'	-7.06	1.45	1.53
1	N	1316	G	C2-N3	7.06	1.38	1.32
1	N	18	C	C4-C5	7.06	1.48	1.43
1	N	126	G	C2'-C1'	-7.06	1.45	1.53
1	N	530	G	C2-N3	7.06	1.38	1.32
1	N	1111	A	N9-C8	7.06	1.43	1.37
1	N	999	C	C4-N4	7.06	1.40	1.33
1	N	299	G	N7-C5	-7.05	1.35	1.39
1	N	960	U	C4'-C3'	7.05	1.60	1.53
1	N	1220	G	C2-N2	7.05	1.41	1.34
1	N	226	G	N9-C8	7.05	1.42	1.37
1	N	1283	U	P-O5'	-7.05	1.52	1.59
1	N	805	C	N3-C4	7.05	1.38	1.33
1	N	1244	G	N7-C5	-7.05	1.35	1.39
1	N	257	G	C8-N7	-7.05	1.26	1.30
1	N	1313	U	C2-N3	7.05	1.42	1.37
1	N	724	G	C2'-C1'	-7.05	1.45	1.53
1	N	390	U	C2'-C1'	-7.04	1.45	1.53
1	N	982	U	N3-C4	7.04	1.44	1.38
1	N	1083	U	O3'-P	-7.04	1.52	1.61
1	N	263	A	C8-N7	7.04	1.36	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	483	C	C2-N3	-7.04	1.30	1.35
1	N	1207	G	N9-C8	7.04	1.42	1.37
1	N	156	C	C4'-C3'	-7.04	1.45	1.53
1	N	1304	G	C3'-C2'	7.04	1.60	1.52
1	N	337	G	N3-C4	-7.03	1.30	1.35
1	N	1196	A	C2-N3	-7.03	1.27	1.33
1	N	267	C	C4'-C3'	7.03	1.60	1.53
1	N	838	G	N1-C2	7.03	1.43	1.37
1	N	1505	G	C8-N7	-7.03	1.26	1.30
1	N	794	A	N9-C8	-7.03	1.32	1.37
1	N	377	G	N1-C2	7.03	1.43	1.37
1	N	1450	U	P-O5'	-7.03	1.52	1.59
1	N	364	A	N7-C5	-7.03	1.35	1.39
1	N	114	U	C4-C5	7.02	1.49	1.43
1	N	1181	G	N9-C4	-7.02	1.32	1.38
1	N	1391	U	C2'-C1'	7.02	1.61	1.53
1	N	480	U	N3-C4	7.02	1.44	1.38
1	N	504	C	C4-N4	7.02	1.40	1.33
1	N	521	G	C6-N1	7.02	1.44	1.39
1	N	1068	G	C6-N1	7.02	1.44	1.39
1	N	1407	C	N3-C4	7.02	1.38	1.33
1	N	1384	C	C5'-C4'	7.02	1.59	1.51
1	N	211	G	C2-N2	7.01	1.41	1.34
1	N	443	C	C5-C6	7.01	1.40	1.34
1	N	517	G	N1-C2	7.01	1.43	1.37
1	N	661	G	P-O5'	-7.01	1.52	1.59
1	N	1201	A	C6-N6	7.01	1.39	1.33
1	N	672	U	N1-C6	-7.01	1.31	1.38
1	N	1450	U	C2-N3	7.01	1.42	1.37
1	N	1488	G	N7-C5	7.01	1.43	1.39
1	N	319	G	N7-C5	7.01	1.43	1.39
1	N	517	G	N9-C8	-7.01	1.32	1.37
1	N	449	G	C5'-C4'	7.01	1.59	1.51
1	N	737	C	C2'-C1'	-7.01	1.45	1.53
1	N	1246	A	C2-N3	7.01	1.39	1.33
1	N	656	G	C6-N1	7.01	1.44	1.39
1	N	795	C	C2'-C1'	-7.01	1.45	1.53
1	N	1055	A	N7-C5	-7.01	1.35	1.39
1	N	778	G	C2-N3	7.00	1.38	1.32
1	N	1145	A	N9-C4	-7.00	1.33	1.37
1	N	1345	U	N1-C6	7.00	1.44	1.38
1	N	10	A	C8-N7	-7.00	1.26	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1219	A	C6-N6	7.00	1.39	1.33
1	N	689	C	C2-O2	7.00	1.30	1.24
1	N	1405	G	N3-C4	-7.00	1.30	1.35
1	N	1302	C	C3'-O3'	6.99	1.51	1.42
1	N	1331	G	N7-C5	-6.99	1.35	1.39
1	N	1441	A	N3-C4	6.99	1.39	1.34
1	N	1221	G	C5-C4	6.99	1.43	1.38
1	N	561	U	P-O5'	6.99	1.66	1.59
1	N	615	G	C5-C4	-6.99	1.33	1.38
1	N	1186	G	C5-C4	-6.99	1.33	1.38
1	N	1365	G	C2-N3	6.99	1.38	1.32
1	N	108	G	C5-C4	6.99	1.43	1.38
1	N	146	G	C6-N1	6.99	1.44	1.39
1	N	957	U	P-O5'	-6.99	1.52	1.59
1	N	1304	G	C6-N1	6.99	1.44	1.39
1	N	1427	C	C4-N4	6.99	1.40	1.33
1	N	7	A	N3-C4	-6.98	1.30	1.34
1	N	101	A	N9-C4	6.98	1.42	1.37
1	N	354	G	N7-C5	-6.98	1.35	1.39
1	N	1247	U	O3'-P	-6.98	1.52	1.61
1	N	784	A	P-O5'	-6.98	1.52	1.59
1	N	956	U	P-O5'	-6.98	1.52	1.59
1	N	1238	A	C8-N7	-6.98	1.26	1.31
1	N	156	C	C5'-C4'	6.98	1.59	1.51
1	N	336	A	C5'-C4'	6.98	1.59	1.51
1	N	552	U	N1-C6	-6.98	1.31	1.38
1	N	711	G	C4'-C3'	6.97	1.60	1.53
1	N	895	G	P-O5'	-6.97	1.52	1.59
1	N	1347	G	C5-C4	6.97	1.43	1.38
1	N	91	U	C2'-C1'	-6.97	1.45	1.53
1	N	269	C	C4-C5	6.97	1.48	1.43
1	N	372	C	C1'-N1	6.97	1.59	1.48
1	N	1328	C	N3-C4	6.97	1.38	1.33
1	N	1126	U	N1-C2	6.97	1.44	1.38
1	N	1400	C	C4'-C3'	-6.97	1.45	1.53
1	N	346	G	C8-N7	6.97	1.35	1.30
1	N	568	G	N9-C8	6.97	1.42	1.37
1	N	1166	G	C5-C4	-6.96	1.33	1.38
1	N	299	G	N9-C8	6.96	1.42	1.37
1	N	294	U	P-O5'	-6.96	1.52	1.59
1	N	1074	G	C2-N3	6.96	1.38	1.32
1	N	20	U	N1-C6	6.96	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	301	G	N7-C5	-6.96	1.35	1.39
1	N	784	A	C6-N1	-6.96	1.30	1.35
1	N	976	G	C6-N1	6.96	1.44	1.39
1	N	286	C	N1-C6	6.96	1.41	1.37
1	N	506	G	C8-N7	-6.96	1.26	1.30
1	N	730	G	C5'-C4'	6.96	1.59	1.51
1	N	1015	G	C2'-C1'	-6.96	1.45	1.53
1	N	1187	G	N9-C4	6.96	1.43	1.38
1	N	693	G	N9-C8	-6.95	1.32	1.37
1	N	322	C	C3'-C2'	6.95	1.60	1.52
1	N	689	C	P-O5'	-6.95	1.52	1.59
1	N	1138	G	O3'-P	-6.95	1.52	1.61
1	N	1074	G	C8-N7	-6.95	1.26	1.30
1	N	1319	A	C2'-C1'	-6.95	1.45	1.53
1	N	360	G	C6-N1	6.95	1.44	1.39
1	N	529	G	C6-N1	6.95	1.44	1.39
1	N	1521	C	N3-C4	6.95	1.38	1.33
1	N	1455	G	C1'-N9	6.95	1.59	1.48
1	N	744	C	C4'-C3'	-6.95	1.45	1.53
1	N	911	U	C2-N3	6.95	1.42	1.37
1	N	18	C	C4-N4	6.94	1.40	1.33
1	N	853	C	N1-C2	6.94	1.47	1.40
1	N	1273	C	C4-C5	6.94	1.48	1.43
1	N	1411	C	C2-N3	6.94	1.41	1.35
1	N	1006	G	C5-C6	-6.94	1.35	1.42
1	N	1185	G	C2-N3	6.94	1.38	1.32
1	N	1133	G	N3-C4	6.94	1.40	1.35
1	N	1435	G	C2-N3	6.94	1.38	1.32
1	N	826	C	C4-N4	6.94	1.40	1.33
1	N	1070	U	C2'-C1'	-6.94	1.45	1.53
1	N	1259	C	P-O5'	-6.94	1.52	1.59
1	N	912	C	C4'-C3'	6.94	1.60	1.53
1	N	1386	G	C2-N2	-6.93	1.27	1.34
1	N	1419	G	N7-C5	-6.93	1.35	1.39
1	N	1429	A	O4'-C1'	6.93	1.50	1.41
1	N	105	G	C5'-C4'	6.93	1.59	1.51
1	N	693	G	P-O5'	-6.93	1.52	1.59
1	N	72	A	C6-N6	6.93	1.39	1.33
1	N	461	A	N9-C4	6.93	1.42	1.37
1	N	702	A	C6-N1	6.93	1.40	1.35
1	N	1124	G	O3'-P	-6.93	1.52	1.61
1	N	772	U	P-O5'	-6.92	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	984	C	C2-N3	6.92	1.41	1.35
1	N	1181	G	C8-N7	-6.92	1.26	1.30
1	N	104	G	C2-N3	6.92	1.38	1.32
1	N	95	C	N1-C6	6.92	1.41	1.37
1	N	697	U	C4'-C3'	6.92	1.60	1.53
1	N	1517	G	N7-C5	-6.92	1.35	1.39
1	N	153	C	C2-N3	-6.91	1.30	1.35
1	N	645	G	N1-C2	6.91	1.43	1.37
1	N	923	A	C6-N6	6.91	1.39	1.33
1	N	295	C	C4-N4	6.91	1.40	1.33
1	N	258	G	N7-C5	-6.91	1.35	1.39
1	N	388	G	C5-C4	6.91	1.43	1.38
1	N	459	A	C6-N6	6.91	1.39	1.33
1	N	493	A	N7-C5	-6.91	1.35	1.39
1	N	661	G	C2'-C1'	-6.91	1.45	1.53
1	N	717	U	C2-N3	6.91	1.42	1.37
1	N	1367	C	C2-N3	6.90	1.41	1.35
1	N	293	G	C6-N1	6.90	1.44	1.39
1	N	621	A	C5'-C4'	6.90	1.59	1.51
1	N	956	U	N3-C4	6.90	1.44	1.38
1	N	987	G	C2'-C1'	-6.90	1.45	1.53
1	N	289	G	N7-C5	-6.90	1.35	1.39
1	N	911	U	C4'-C3'	-6.90	1.45	1.53
1	N	31	G	C5-C4	6.90	1.43	1.38
1	N	169	C	C2-N3	6.90	1.41	1.35
1	N	275	G	C6-N1	6.90	1.44	1.39
1	N	1088	G	C2'-C1'	-6.90	1.45	1.53
1	N	823	C	N3-C4	6.90	1.38	1.33
1	N	1271	A	N3-C4	-6.89	1.30	1.34
1	N	132	C	N1-C6	6.89	1.41	1.37
1	N	135	C	C4-C5	6.89	1.48	1.43
1	N	219	U	C1'-N1	6.89	1.59	1.48
1	N	1208	C	C5-C6	-6.89	1.28	1.34
1	N	1405	G	C8-N7	-6.89	1.26	1.30
1	N	50	A	N9-C8	-6.89	1.32	1.37
1	N	354	G	C5-C4	-6.89	1.33	1.38
1	N	502	A	N7-C5	6.89	1.43	1.39
1	N	1456	A	C6-N1	6.89	1.40	1.35
1	N	932	C	N3-C4	6.88	1.38	1.33
1	N	1345	U	P-O5'	-6.88	1.52	1.59
1	N	854	U	O4'-C1'	6.88	1.50	1.41
1	N	914	A	C6-N6	6.88	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	936	C	N3-C4	6.88	1.38	1.33
1	N	1010	U	C2-N3	6.88	1.42	1.37
1	N	359	G	C3'-C2'	-6.88	1.45	1.52
1	N	1128	C	O3'-P	-6.88	1.52	1.61
1	N	1045	C	P-O5'	-6.88	1.52	1.59
1	N	1072	G	N1-C2	6.88	1.43	1.37
1	N	1401	G	N3-C4	-6.88	1.30	1.35
1	N	463	U	C2-N3	6.87	1.42	1.37
1	N	953	G	C6-N1	6.87	1.44	1.39
1	N	1138	G	N1-C2	6.87	1.43	1.37
1	N	66	A	N1-C2	6.87	1.40	1.34
1	N	1010	U	C5'-C4'	6.87	1.59	1.51
1	N	965	U	C2-N3	6.87	1.42	1.37
1	N	1091	U	C4'-C3'	6.87	1.60	1.53
1	N	500	G	N7-C5	-6.87	1.35	1.39
1	N	1011	C	C4-N4	6.87	1.40	1.33
1	N	1506	U	O3'-P	-6.87	1.52	1.61
1	N	1222	G	C4'-O4'	-6.87	1.36	1.45
1	N	83	C	P-O5'	-6.87	1.52	1.59
1	N	703	G	C2-N3	-6.87	1.27	1.32
1	N	1276	G	C6-N1	-6.87	1.34	1.39
1	N	61	G	N7-C5	6.86	1.43	1.39
1	N	816	A	N9-C4	-6.86	1.33	1.37
1	N	227	G	C2-N2	6.86	1.41	1.34
1	N	1401	G	C2-N2	6.86	1.41	1.34
1	N	213	G	N3-C4	-6.86	1.30	1.35
1	N	690	G	P-O5'	-6.86	1.52	1.59
1	N	195	A	N7-C5	-6.86	1.35	1.39
1	N	402	G	C2-N3	6.86	1.38	1.32
1	N	974	A	N3-C4	6.86	1.39	1.34
1	N	81	A	C6-N1	6.85	1.40	1.35
1	N	1095	U	P-O5'	-6.85	1.52	1.59
1	N	1534	A	N9-C8	6.85	1.43	1.37
1	N	442	G	O4'-C1'	6.85	1.50	1.41
1	N	881	G	N7-C5	6.85	1.43	1.39
1	N	1386	G	N1-C2	6.85	1.43	1.37
1	N	1393	U	C5-C6	6.85	1.40	1.34
1	N	1489	G	N1-C2	6.85	1.43	1.37
1	N	610	U	C2-N3	6.85	1.42	1.37
1	N	1032	G	C2'-C1'	-6.85	1.45	1.53
1	N	187	G	N9-C8	-6.85	1.33	1.37
1	N	499	A	N9-C4	6.85	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	331	G	O3'-P	-6.84	1.52	1.61
1	N	1268	G	N3-C4	-6.84	1.30	1.35
1	N	4	U	N1-C2	-6.84	1.32	1.38
1	N	639	G	C4'-C3'	-6.84	1.45	1.53
1	N	977	A	O4'-C1'	6.84	1.50	1.41
1	N	878	A	N7-C5	6.84	1.43	1.39
1	N	338	A	C3'-O3'	6.84	1.51	1.42
1	N	633	G	C4'-O4'	6.84	1.54	1.45
1	N	185	U	O4'-C1'	6.84	1.50	1.41
1	N	695	A	N7-C5	-6.84	1.35	1.39
1	N	1242	G	C5-C4	-6.84	1.33	1.38
1	N	1489	G	N3-C4	-6.83	1.30	1.35
1	N	324	G	N1-C2	6.83	1.43	1.37
1	N	1033	G	O3'-P	-6.83	1.52	1.61
1	N	1258	G	P-O5'	-6.83	1.52	1.59
1	N	1287	A	C5-C4	-6.83	1.33	1.38
1	N	993	G	C6-N1	6.83	1.44	1.39
1	N	742	G	N1-C2	6.83	1.43	1.37
1	N	1525	G	C2-N3	6.83	1.38	1.32
1	N	1513	A	N3-C4	6.83	1.39	1.34
1	N	682	G	C6-N1	6.82	1.44	1.39
1	N	1029	U	P-O5'	-6.82	1.52	1.59
1	N	1315	U	C2-N3	6.82	1.42	1.37
1	N	395	C	N1-C6	6.82	1.41	1.37
1	N	944	G	C5-C4	6.82	1.43	1.38
1	N	235	C	C1'-N1	6.82	1.58	1.48
1	N	1202	U	C5'-C4'	6.82	1.59	1.51
1	N	1476	A	N7-C5	-6.82	1.35	1.39
1	N	396	C	C4'-C3'	6.82	1.60	1.53
1	N	1101	A	O4'-C1'	6.81	1.50	1.41
1	N	1352	C	N3-C4	6.81	1.38	1.33
1	N	158	G	C8-N7	6.81	1.35	1.30
1	N	1476	A	C5'-C4'	6.81	1.59	1.51
1	N	144	G	C3'-C2'	-6.81	1.45	1.52
1	N	259	G	C2-N2	6.81	1.41	1.34
1	N	410	G	C2-N3	6.81	1.38	1.32
1	N	1501	C	P-O5'	-6.81	1.52	1.59
1	N	574	A	N7-C5	-6.81	1.35	1.39
1	N	1487	G	C2-N3	6.81	1.38	1.32
1	N	775	G	N9-C4	-6.80	1.32	1.38
1	N	1255	G	C2-N3	-6.80	1.27	1.32
1	N	145	G	C2-N3	6.80	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	908	A	C6-N6	6.80	1.39	1.33
1	N	1082	A	P-O5'	-6.80	1.52	1.59
1	N	986	U	C2'-C1'	6.80	1.60	1.53
1	N	36	C	C2'-C1'	-6.80	1.45	1.53
1	N	1232	U	N3-C4	6.80	1.44	1.38
1	N	1167	A	N9-C4	6.79	1.42	1.37
1	N	293	G	P-O5'	-6.79	1.52	1.59
1	N	508	U	C2-N3	6.79	1.42	1.37
1	N	930	C	N3-C4	6.79	1.38	1.33
1	N	108	G	C2'-O2'	6.79	1.50	1.41
1	N	604	G	C8-N7	6.79	1.35	1.30
1	N	890	G	N7-C5	6.79	1.43	1.39
1	N	912	C	N1-C2	-6.79	1.33	1.40
1	N	76	G	N1-C2	6.79	1.43	1.37
1	N	163	C	C4-N4	6.78	1.40	1.33
1	N	1179	A	C8-N7	-6.78	1.26	1.31
1	N	60	A	C6-N1	6.78	1.40	1.35
1	N	1182	G	C4'-C3'	6.78	1.60	1.53
1	N	55	A	N3-C4	-6.78	1.30	1.34
1	N	789	U	C5'-C4'	6.78	1.59	1.51
1	N	881	G	P-O5'	6.78	1.66	1.59
1	N	174	A	C6-N6	6.78	1.39	1.33
1	N	43	C	C3'-C2'	-6.78	1.45	1.52
1	N	543	U	C4-O4	6.78	1.29	1.23
1	N	631	C	C4'-C3'	6.78	1.60	1.53
1	N	1029	U	N1-C2	6.78	1.44	1.38
1	N	1304	G	C2-N3	6.78	1.38	1.32
1	N	1340	A	N9-C4	-6.78	1.33	1.37
1	N	1241	G	C4'-C3'	6.78	1.60	1.53
1	N	1280	A	N9-C4	6.78	1.42	1.37
1	N	234	C	C4-N4	6.77	1.40	1.33
1	N	646	G	N9-C4	-6.77	1.32	1.38
1	N	417	G	N9-C4	-6.77	1.32	1.38
1	N	833	G	C2'-C1'	-6.77	1.46	1.53
1	N	1414	U	N3-C4	6.77	1.44	1.38
1	N	376	G	C2-N3	6.77	1.38	1.32
1	N	629	A	C2'-C1'	-6.77	1.46	1.53
1	N	1464	U	N1-C2	-6.77	1.32	1.38
1	N	739	C	C3'-C2'	-6.77	1.45	1.52
1	N	1244	G	C2-N3	6.77	1.38	1.32
1	N	423	G	N1-C2	6.76	1.43	1.37
1	N	48	C	C1'-N1	6.76	1.58	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	115	G	P-O5'	-6.76	1.52	1.59
1	N	329	A	C6-N6	6.76	1.39	1.33
1	N	334	C	C1'-N1	6.76	1.58	1.48
1	N	998	C	O4'-C1'	-6.76	1.32	1.41
1	N	844	G	C2-N3	6.76	1.38	1.32
1	N	1391	U	C4'-C3'	6.76	1.60	1.53
1	N	400	C	C3'-C2'	6.76	1.60	1.52
1	N	726	C	C2'-O2'	-6.76	1.32	1.41
1	N	926	G	N7-C5	6.76	1.43	1.39
1	N	1241	G	N7-C5	-6.76	1.35	1.39
1	N	290	C	N3-C4	6.75	1.38	1.33
1	N	584	G	C5-C4	6.75	1.43	1.38
1	N	1094	G	O5'-C5'	-6.75	1.32	1.42
1	N	1142	G	C5-C4	-6.75	1.33	1.38
1	N	1268	G	C5-C6	6.75	1.49	1.42
1	N	622	A	C6-N6	6.75	1.39	1.33
1	N	835	U	N1-C2	-6.75	1.32	1.38
1	N	1251	A	N3-C4	6.75	1.38	1.34
1	N	157	U	N3-C4	6.75	1.44	1.38
1	N	165	G	C8-N7	-6.75	1.26	1.30
1	N	961	U	C2'-C1'	-6.75	1.46	1.53
1	N	129	A	N9-C4	-6.75	1.33	1.37
1	N	136	C	N3-C4	6.75	1.38	1.33
1	N	646	G	C6-N1	6.75	1.44	1.39
1	N	878	A	N9-C8	-6.75	1.32	1.37
1	N	1119	C	O3'-P	-6.75	1.53	1.61
1	N	1106	G	N7-C5	-6.75	1.35	1.39
1	N	127	G	N1-C2	6.74	1.43	1.37
1	N	1138	G	C4'-O4'	-6.74	1.36	1.45
1	N	1449	C	P-O5'	-6.74	1.53	1.59
1	N	684	U	C1'-N1	6.74	1.58	1.48
1	N	851	G	N9-C4	-6.74	1.32	1.38
1	N	1282	C	N3-C4	6.74	1.38	1.33
1	N	1453	G	C3'-C2'	6.74	1.60	1.52
1	N	800	G	C6-N1	6.74	1.44	1.39
1	N	926	G	C4'-C3'	6.74	1.60	1.53
1	N	1475	G	C5-C4	6.74	1.43	1.38
1	N	1102	A	N9-C4	-6.74	1.33	1.37
1	N	1256	A	N3-C4	-6.74	1.30	1.34
1	N	1290	G	C5-C4	6.74	1.43	1.38
1	N	138	G	C3'-O3'	6.73	1.51	1.42
1	N	683	G	C2-N3	6.73	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1058	G	C8-N7	-6.73	1.26	1.30
1	N	680	C	N3-C4	6.73	1.38	1.33
1	N	890	G	N9-C8	6.73	1.42	1.37
1	N	701	U	C2-N3	6.73	1.42	1.37
1	N	690	G	N9-C4	-6.73	1.32	1.38
1	N	255	G	N9-C8	6.72	1.42	1.37
1	N	275	G	O3'-P	-6.72	1.53	1.61
1	N	506	G	N1-C2	6.72	1.43	1.37
1	N	777	A	C5'-C4'	6.72	1.59	1.51
1	N	1177	G	N7-C5	-6.72	1.35	1.39
1	N	72	A	P-O5'	-6.72	1.53	1.59
1	N	1074	G	C2-N2	6.72	1.41	1.34
1	N	301	G	C4'-C3'	-6.72	1.45	1.53
1	N	361	G	N1-C2	6.72	1.43	1.37
1	N	1387	G	C5-C6	6.72	1.49	1.42
1	N	17	U	N3-C4	6.72	1.44	1.38
1	N	274	A	C1'-N9	6.72	1.58	1.48
1	N	1269	A	N3-C4	-6.72	1.30	1.34
1	N	90	C	N3-C4	6.72	1.38	1.33
1	N	385	C	C4'-C3'	-6.72	1.45	1.53
1	N	457	G	N9-C8	-6.72	1.33	1.37
1	N	967	C	C5'-C4'	6.72	1.59	1.51
1	N	231	U	C2-N3	6.71	1.42	1.37
1	N	1339	A	N1-C2	6.71	1.40	1.34
1	N	528	C	C2-N3	6.71	1.41	1.35
1	N	725	G	C8-N7	6.71	1.34	1.30
1	N	416	G	C6-N1	6.71	1.44	1.39
1	N	517	G	C5'-C4'	6.71	1.59	1.51
1	N	177	G	C2-N3	6.71	1.38	1.32
1	N	731	G	C8-N7	6.71	1.34	1.30
1	N	615	G	N1-C2	6.71	1.43	1.37
1	N	504	C	C4'-C3'	6.70	1.60	1.53
1	N	66	A	C6-N6	6.70	1.39	1.33
1	N	243	A	N9-C8	6.70	1.43	1.37
1	N	537	G	C5'-C4'	6.70	1.59	1.51
1	N	706	A	P-O5'	-6.70	1.53	1.59
1	N	1177	G	C2-N3	6.70	1.38	1.32
1	N	582	C	P-O5'	-6.70	1.53	1.59
1	N	1278	G	C6-N1	6.70	1.44	1.39
1	N	1384	C	N3-C4	6.70	1.38	1.33
1	N	420	U	N1-C6	6.70	1.44	1.38
1	N	207	C	C4'-C3'	-6.70	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	391	G	C2-N3	6.70	1.38	1.32
1	N	329	A	C3'-C2'	6.69	1.60	1.52
1	N	412	A	C6-N6	6.69	1.39	1.33
1	N	710	G	N1-C2	6.69	1.43	1.37
1	N	1447	A	C6-N6	6.69	1.39	1.33
1	N	49	U	O3'-P	6.69	1.69	1.61
1	N	35	G	C4'-C3'	6.69	1.60	1.53
1	N	321	A	C5'-C4'	6.68	1.59	1.51
1	N	735	C	C4-N4	6.68	1.40	1.33
1	N	343	U	P-O5'	-6.68	1.53	1.59
1	N	833	G	C2-N3	6.68	1.38	1.32
1	N	1166	G	N9-C8	6.68	1.42	1.37
1	N	1467	C	N1-C6	6.68	1.41	1.37
1	N	845	A	N9-C8	6.68	1.43	1.37
1	N	1043	G	N1-C2	6.68	1.43	1.37
1	N	776	G	C2-N3	6.68	1.38	1.32
1	N	621	A	C2'-C1'	-6.68	1.46	1.53
1	N	197	A	P-O5'	-6.67	1.53	1.59
1	N	1281	C	C5'-C4'	6.67	1.59	1.51
1	N	1439	G	N9-C4	6.67	1.43	1.38
1	N	130	A	N7-C5	-6.67	1.35	1.39
1	N	161	A	N3-C4	-6.67	1.30	1.34
1	N	426	U	N3-C4	-6.67	1.32	1.38
1	N	1095	U	C2'-C1'	-6.67	1.46	1.53
1	N	1115	U	P-O5'	-6.67	1.53	1.59
1	N	1155	A	N7-C5	-6.67	1.35	1.39
1	N	1210	C	C4-N4	6.67	1.40	1.33
1	N	1223	C	C4-C5	6.67	1.48	1.43
1	N	474	G	P-O5'	-6.66	1.53	1.59
1	N	600	A	C5'-C4'	6.66	1.59	1.51
1	N	1033	G	C4'-C3'	-6.66	1.45	1.53
1	N	1106	G	C8-N7	6.66	1.34	1.30
1	N	1423	G	N7-C5	6.66	1.43	1.39
1	N	89	U	N1-C6	6.66	1.44	1.38
1	N	374	A	N3-C4	6.66	1.38	1.34
1	N	394	G	C3'-C2'	6.66	1.60	1.52
1	N	1153	G	N7-C5	-6.66	1.35	1.39
1	N	563	A	N7-C5	-6.66	1.35	1.39
1	N	920	U	P-O5'	6.66	1.66	1.59
1	N	770	C	C2'-C1'	-6.66	1.46	1.53
1	N	727	G	C6-N1	6.66	1.44	1.39
1	N	869	G	P-O5'	-6.66	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	721	G	C2-N2	6.65	1.41	1.34
1	N	1416	G	N3-C4	6.65	1.40	1.35
1	N	2	A	N1-C2	6.65	1.40	1.34
1	N	171	A	N7-C5	-6.65	1.35	1.39
1	N	286	C	O3'-P	-6.65	1.53	1.61
1	N	309	A	C5-C4	6.65	1.43	1.38
1	N	480	U	C4-C5	6.65	1.49	1.43
1	N	473	U	C2'-C1'	-6.64	1.46	1.53
1	N	339	C	C4'-C3'	-6.64	1.45	1.53
1	N	48	C	C2-N3	6.64	1.41	1.35
1	N	402	G	C5'-C4'	6.64	1.59	1.51
1	N	752	G	C6-N1	6.64	1.44	1.39
1	N	1448	C	C4-N4	6.64	1.40	1.33
1	N	564	C	C4-C5	6.64	1.48	1.43
1	N	9	G	C6-N1	6.63	1.44	1.39
1	N	1101	A	C5-C4	6.63	1.43	1.38
1	N	1132	C	N3-C4	6.63	1.38	1.33
1	N	1262	C	C2-N3	6.63	1.41	1.35
1	N	86	G	C5'-C4'	6.63	1.59	1.51
1	N	135	C	C4-N4	6.63	1.40	1.33
1	N	191	G	C6-N1	-6.63	1.34	1.39
1	N	667	G	O4'-C1'	6.63	1.50	1.41
1	N	972	C	C2'-C1'	-6.63	1.46	1.53
1	N	1085	U	C3'-O3'	6.63	1.51	1.42
1	N	969	A	C5'-C4'	6.63	1.59	1.51
1	N	265	G	C8-N7	6.63	1.34	1.30
1	N	933	G	C2-N3	6.63	1.38	1.32
1	N	1205	U	N3-C4	6.63	1.44	1.38
1	N	1231	G	C2-N3	6.62	1.38	1.32
1	N	1234	C	C2'-C1'	-6.62	1.46	1.53
1	N	451	A	C6-N6	6.62	1.39	1.33
1	N	1494	G	C6-N1	6.62	1.44	1.39
1	N	560	A	C5'-C4'	6.62	1.59	1.51
1	N	952	U	C4'-C3'	6.62	1.60	1.53
1	N	1278	G	N7-C5	-6.62	1.35	1.39
1	N	619	U	N1-C6	6.62	1.44	1.38
1	N	1210	C	O3'-P	-6.62	1.53	1.61
1	N	1338	G	N9-C4	6.62	1.43	1.38
1	N	137	U	N1-C2	6.62	1.44	1.38
1	N	126	G	N7-C5	-6.61	1.35	1.39
1	N	1233	G	O3'-P	-6.61	1.53	1.61
1	N	715	A	C2'-C1'	-6.61	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	584	G	C2'-C1'	-6.61	1.46	1.53
1	N	66	A	C5-C4	6.61	1.43	1.38
1	N	542	G	C2-N2	6.60	1.41	1.34
1	N	801	U	C2-O2	6.60	1.28	1.22
1	N	1488	G	C6-N1	6.60	1.44	1.39
1	N	290	C	C2'-C1'	-6.60	1.46	1.53
1	N	783	C	N3-C4	6.60	1.38	1.33
1	N	121	U	O4'-C1'	6.60	1.50	1.41
1	N	349	A	C6-N6	6.60	1.39	1.33
1	N	364	A	C5-C6	6.60	1.47	1.41
1	N	1369	C	N1-C6	6.60	1.41	1.37
1	N	1153	G	N9-C8	6.60	1.42	1.37
1	N	1247	U	P-O5'	-6.60	1.53	1.59
1	N	243	A	N9-C4	-6.59	1.33	1.37
1	N	1050	G	N7-C5	6.59	1.43	1.39
1	N	1094	G	N9-C4	6.59	1.43	1.38
1	N	527	G	N9-C4	6.59	1.43	1.38
1	N	21	G	N7-C5	-6.59	1.35	1.39
1	N	407	U	C1'-N1	6.59	1.58	1.48
1	N	1256	A	N9-C4	-6.59	1.33	1.37
1	N	22	G	C2'-C1'	-6.59	1.46	1.53
1	N	79	G	N9-C4	-6.59	1.32	1.38
1	N	393	A	C6-N6	6.59	1.39	1.33
1	N	1195	C	C2'-C1'	-6.59	1.46	1.53
1	N	1317	C	C4-N4	6.59	1.39	1.33
1	N	681	A	P-O5'	6.58	1.66	1.59
1	N	1439	G	N9-C8	6.58	1.42	1.37
1	N	6	G	N9-C4	6.58	1.43	1.38
1	N	1323	G	N1-C2	6.58	1.43	1.37
1	N	1126	U	N1-C6	6.58	1.43	1.38
1	N	1398	A	C4'-O4'	-6.58	1.36	1.45
1	N	668	G	C2'-C1'	-6.58	1.46	1.53
1	N	1098	C	C2-O2	6.58	1.30	1.24
1	N	107	G	N7-C5	-6.58	1.35	1.39
1	N	602	A	N1-C2	6.57	1.40	1.34
1	N	1060	U	C5'-C4'	6.57	1.59	1.51
1	N	1134	G	N1-C2	6.57	1.43	1.37
1	N	1230	C	C2-N3	6.57	1.41	1.35
1	N	1337	G	C5-C4	6.57	1.43	1.38
1	N	19	A	C5-C4	6.57	1.43	1.38
1	N	89	U	C2'-C1'	-6.57	1.46	1.53
1	N	1013	G	N1-C2	6.57	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1067	A	C6-N1	6.57	1.40	1.35
1	N	389	A	N9-C4	6.57	1.41	1.37
1	N	1281	C	C4'-O4'	-6.57	1.37	1.45
1	N	22	G	C4'-C3'	6.57	1.60	1.53
1	N	569	C	N1-C6	6.57	1.41	1.37
1	N	659	U	C2-N3	6.57	1.42	1.37
1	N	16	A	P-O5'	-6.56	1.53	1.59
1	N	531	U	C5'-C4'	6.56	1.59	1.51
1	N	289	G	N1-C2	6.56	1.43	1.37
1	N	1151	A	O4'-C1'	-6.56	1.33	1.41
1	N	408	A	C5-C6	-6.56	1.35	1.41
1	N	437	U	C2'-C1'	-6.56	1.46	1.53
1	N	461	A	C5'-C4'	6.56	1.59	1.51
1	N	861	G	P-O5'	6.56	1.66	1.59
1	N	1135	U	N1-C2	-6.56	1.32	1.38
1	N	1484	C	N1-C6	6.56	1.41	1.37
1	N	80	A	N9-C4	-6.55	1.33	1.37
1	N	624	C	N3-C4	6.55	1.38	1.33
1	N	732	C	C4-N4	6.55	1.39	1.33
1	N	812	G	C2-N2	6.55	1.41	1.34
1	N	958	A	C5-C4	6.55	1.43	1.38
1	N	1361	G	N9-C8	6.55	1.42	1.37
1	N	1178	G	C2'-C1'	-6.55	1.46	1.53
1	N	1235	U	C3'-C2'	6.55	1.60	1.52
1	N	1464	U	N3-C4	6.55	1.44	1.38
1	N	830	G	C6-N1	6.55	1.44	1.39
1	N	336	A	N7-C5	-6.55	1.35	1.39
1	N	732	C	N3-C4	6.55	1.38	1.33
1	N	1211	U	C2-N3	6.55	1.42	1.37
1	N	628	G	C4'-C3'	6.55	1.60	1.53
1	N	8	A	C6-N6	6.54	1.39	1.33
1	N	1121	U	C5'-C4'	6.54	1.59	1.51
1	N	796	C	C4'-C3'	-6.54	1.46	1.53
1	N	199	A	C2-N3	6.54	1.39	1.33
1	N	905	U	C5'-C4'	6.54	1.59	1.51
1	N	968	A	C6-N6	6.54	1.39	1.33
1	N	983	A	C2-N3	6.54	1.39	1.33
1	N	1019	A	C8-N7	6.54	1.36	1.31
1	N	173	U	P-O5'	6.53	1.66	1.59
1	N	1050	G	C6-N1	6.53	1.44	1.39
1	N	1187	G	C2'-C1'	-6.53	1.46	1.53
1	N	1357	A	N9-C4	-6.53	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1107	C	C5'-C4'	6.53	1.59	1.51
1	N	1142	G	N1-C2	6.53	1.43	1.37
1	N	577	G	C2'-C1'	-6.53	1.46	1.53
1	N	1210	C	N1-C6	-6.53	1.33	1.37
1	N	1263	C	C4-C5	6.52	1.48	1.43
1	N	585	G	N7-C5	-6.52	1.35	1.39
1	N	1294	G	C2'-C1'	-6.52	1.46	1.53
1	N	246	A	N9-C4	-6.52	1.33	1.37
1	N	723	U	N1-C6	6.52	1.43	1.38
1	N	387	U	O3'-P	-6.52	1.53	1.61
1	N	413	G	N9-C4	6.52	1.43	1.38
1	N	1138	G	C6-N1	6.52	1.44	1.39
1	N	1450	U	N3-C4	6.52	1.44	1.38
1	N	397	A	C1'-N9	6.51	1.58	1.48
1	N	1468	A	N9-C4	-6.51	1.33	1.37
1	N	74	A	N7-C5	-6.51	1.35	1.39
1	N	249	U	C3'-C2'	-6.51	1.45	1.52
1	N	414	A	N7-C5	-6.51	1.35	1.39
1	N	1088	G	N9-C4	6.51	1.43	1.38
1	N	216	U	N3-C4	6.51	1.44	1.38
1	N	881	G	N9-C8	6.51	1.42	1.37
1	N	1226	C	O3'-P	-6.51	1.53	1.61
1	N	1268	G	C6-N1	6.51	1.44	1.39
1	N	1329	A	C5-C4	6.51	1.43	1.38
1	N	603	U	C2-N3	6.51	1.42	1.37
1	N	50	A	N3-C4	6.50	1.38	1.34
1	N	147	G	N7-C5	-6.50	1.35	1.39
1	N	757	U	C5'-C4'	-6.50	1.43	1.51
1	N	1281	C	N1-C6	6.50	1.41	1.37
1	N	1371	G	N9-C8	6.50	1.42	1.37
1	N	9	G	C5-C6	-6.50	1.35	1.42
1	N	1060	U	C2'-C1'	-6.50	1.46	1.53
1	N	463	U	P-O5'	6.50	1.66	1.59
1	N	885	G	C2-N3	6.50	1.38	1.32
1	N	1453	G	C2-N3	6.50	1.38	1.32
1	N	1495	U	C1'-N1	6.50	1.58	1.48
1	N	627	G	C5-C6	-6.49	1.35	1.42
1	N	1197	A	C6-N6	6.49	1.39	1.33
1	N	1282	C	O4'-C1'	6.49	1.50	1.41
1	N	1505	G	C6-N1	6.49	1.44	1.39
1	N	1325	C	C5'-C4'	6.49	1.59	1.51
1	N	300	A	C2-N3	-6.49	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1276	G	C5-C4	6.49	1.42	1.38
1	N	1506	U	N3-C4	6.49	1.44	1.38
1	N	218	U	C4-C5	-6.49	1.37	1.43
1	N	353	A	N9-C8	-6.49	1.32	1.37
1	N	492	C	C4'-O4'	-6.49	1.37	1.45
1	N	931	C	C3'-C2'	6.49	1.60	1.52
1	N	276	G	N9-C4	-6.49	1.32	1.38
1	N	631	C	C2-N3	6.48	1.41	1.35
1	N	1175	G	C8-N7	-6.48	1.27	1.30
1	N	1261	A	C3'-O3'	6.48	1.51	1.42
1	N	1329	A	C6-N6	6.48	1.39	1.33
1	N	1379	G	N7-C5	-6.48	1.35	1.39
1	N	315	A	C5-C4	6.48	1.43	1.38
1	N	351	G	C2-N3	6.48	1.38	1.32
1	N	446	G	C6-N1	6.48	1.44	1.39
1	N	1020	G	C5'-C4'	6.48	1.59	1.51
1	N	1300	G	C5-C4	6.48	1.42	1.38
1	N	421	U	C2-N3	6.48	1.42	1.37
1	N	495	A	C2'-C1'	-6.48	1.46	1.53
1	N	557	G	N1-C2	6.48	1.43	1.37
1	N	330	C	C4'-C3'	-6.48	1.46	1.53
1	N	784	A	C4'-C3'	6.48	1.60	1.53
1	N	908	A	C5-C4	6.48	1.43	1.38
1	N	912	C	C3'-C2'	-6.47	1.45	1.52
1	N	947	G	P-O5'	-6.47	1.53	1.59
1	N	1261	A	C5-C4	6.47	1.43	1.38
1	N	1267	C	C4'-C3'	6.47	1.60	1.53
1	N	452	A	C5-C6	-6.47	1.35	1.41
1	N	602	A	C4'-C3'	-6.47	1.46	1.53
1	N	1145	A	C2-N3	-6.47	1.27	1.33
1	N	1205	U	C2-N3	6.47	1.42	1.37
1	N	132	C	C4-N4	6.47	1.39	1.33
1	N	152	A	C5'-C4'	6.47	1.59	1.51
1	N	667	G	C4'-O4'	-6.47	1.37	1.45
1	N	802	A	P-O5'	6.47	1.66	1.59
1	N	1486	G	C5'-C4'	6.47	1.59	1.51
1	N	593	U	C2'-C1'	-6.47	1.46	1.53
1	N	1259	C	O3'-P	-6.47	1.53	1.61
1	N	865	A	C2'-C1'	-6.46	1.46	1.53
1	N	1295	U	C3'-O3'	6.46	1.51	1.42
1	N	1382	C	N3-C4	6.46	1.38	1.33
1	N	1416	G	N1-C2	6.46	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1438	G	N3-C4	-6.46	1.30	1.35
1	N	1443	C	N3-C4	6.46	1.38	1.33
1	N	378	G	O3'-P	-6.46	1.53	1.61
1	N	775	G	C6-N1	6.46	1.44	1.39
1	N	57	G	C5-C6	-6.46	1.35	1.42
1	N	511	C	N3-C4	6.46	1.38	1.33
1	N	445	G	N1-C2	6.45	1.43	1.37
1	N	838	G	C4'-O4'	6.45	1.53	1.45
1	N	950	U	P-O5'	-6.45	1.53	1.59
1	N	1268	G	N9-C8	6.45	1.42	1.37
1	N	743	A	C3'-C2'	6.45	1.60	1.52
1	N	164	G	C5-C6	-6.45	1.35	1.42
1	N	1124	G	N9-C4	-6.45	1.32	1.38
1	N	994	A	C5'-C4'	6.45	1.59	1.51
1	N	1305	G	C5'-C4'	6.45	1.59	1.51
1	N	1376	U	P-O5'	-6.45	1.53	1.59
1	N	435	A	N3-C4	6.44	1.38	1.34
1	N	804	U	C2-N3	6.44	1.42	1.37
1	N	1005	A	C6-N6	6.44	1.39	1.33
1	N	1352	C	C4-C5	-6.44	1.37	1.43
1	N	182	A	N9-C4	-6.44	1.33	1.37
1	N	1432	G	P-O5'	-6.44	1.53	1.59
1	N	1002	G	C5'-C4'	6.44	1.59	1.51
1	N	1265	C	C4-C5	6.44	1.48	1.43
1	N	1233	G	N9-C8	-6.44	1.33	1.37
1	N	90	C	N1-C6	6.44	1.41	1.37
1	N	677	U	C4-O4	6.44	1.28	1.23
1	N	1042	A	C6-N6	6.44	1.39	1.33
1	N	1063	C	N3-C4	6.44	1.38	1.33
1	N	190	A	C1'-N9	6.43	1.58	1.48
1	N	1186	G	P-O5'	6.43	1.66	1.59
1	N	400	C	O4'-C1'	6.43	1.50	1.41
1	N	983	A	C2'-C1'	-6.43	1.46	1.53
1	N	1483	A	C6-N1	6.43	1.40	1.35
1	N	118	U	C5'-C4'	6.43	1.59	1.51
1	N	172	A	C8-N7	-6.43	1.27	1.31
1	N	331	G	C2-N2	6.43	1.41	1.34
1	N	1103	C	C4-C5	6.43	1.48	1.43
1	N	516	U	C5'-C4'	6.43	1.59	1.51
1	N	784	A	C6-N6	6.43	1.39	1.33
1	N	1011	C	C4-C5	-6.43	1.37	1.43
1	N	107	G	O3'-P	6.42	1.68	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	624	C	C2-N3	6.42	1.40	1.35
1	N	682	G	C8-N7	-6.42	1.27	1.30
1	N	1343	G	O4'-C1'	6.42	1.50	1.41
1	N	600	A	P-O5'	-6.42	1.53	1.59
1	N	1246	A	N9-C4	6.42	1.41	1.37
1	N	34	C	C2-N3	6.42	1.40	1.35
1	N	581	G	C5-C4	6.42	1.42	1.38
1	N	589	U	N1-C6	6.42	1.43	1.38
1	N	1479	C	C4-N4	6.42	1.39	1.33
1	N	743	A	N7-C5	-6.42	1.35	1.39
1	N	1080	A	C6-N6	6.42	1.39	1.33
1	N	1206	G	O3'-P	-6.42	1.53	1.61
1	N	552	U	N1-C2	6.42	1.44	1.38
1	N	211	G	C3'-O3'	6.42	1.51	1.42
1	N	294	U	O3'-P	-6.42	1.53	1.61
1	N	640	A	N7-C5	6.42	1.43	1.39
1	N	311	C	C3'-C2'	-6.41	1.45	1.52
1	N	315	A	O4'-C1'	-6.41	1.33	1.41
1	N	747	A	O3'-P	-6.41	1.53	1.61
1	N	43	C	N3-C4	-6.41	1.29	1.33
1	N	240	G	N7-C5	-6.41	1.35	1.39
1	N	912	C	N1-C6	-6.41	1.33	1.37
1	N	35	G	C6-N1	6.41	1.44	1.39
1	N	1099	G	N1-C2	6.41	1.42	1.37
1	N	502	A	C6-N1	6.41	1.40	1.35
1	N	728	A	N3-C4	-6.41	1.31	1.34
1	N	471	U	O4'-C1'	6.41	1.50	1.41
1	N	1401	G	C8-N7	-6.41	1.27	1.30
1	N	1456	A	N9-C8	-6.41	1.32	1.37
1	N	34	C	C4-C5	-6.40	1.37	1.43
1	N	170	U	C5'-C4'	6.40	1.59	1.51
1	N	1171	A	C3'-C2'	-6.40	1.45	1.52
1	N	46	G	O3'-P	-6.40	1.53	1.61
1	N	332	G	C6-N1	6.40	1.44	1.39
1	N	817	C	N1-C6	-6.40	1.33	1.37
1	N	257	G	C5-C6	-6.40	1.35	1.42
1	N	586	C	C1'-N1	6.40	1.58	1.48
1	N	1134	G	C5'-C4'	6.40	1.59	1.51
1	N	1205	U	N1-C6	6.40	1.43	1.38
1	N	629	A	C5'-C4'	6.40	1.59	1.51
1	N	1220	G	C2'-C1'	6.40	1.60	1.53
1	N	1512	U	C4'-C3'	-6.39	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1171	A	N7-C5	6.39	1.43	1.39
1	N	155	A	C5-C6	-6.39	1.35	1.41
1	N	580	C	C4-N4	6.39	1.39	1.33
1	N	26	A	N9-C4	6.39	1.41	1.37
1	N	1089	G	N9-C4	6.39	1.43	1.38
1	N	1151	A	C6-N1	6.38	1.40	1.35
1	N	1155	A	C5-C4	6.38	1.43	1.38
1	N	480	U	N1-C6	6.38	1.43	1.38
1	N	564	C	C2'-C1'	-6.38	1.46	1.53
1	N	1005	A	N7-C5	-6.38	1.35	1.39
1	N	718	A	C5-C4	6.38	1.43	1.38
1	N	1022	A	N3-C4	-6.38	1.31	1.34
1	N	1280	A	P-O5'	6.38	1.66	1.59
1	N	1360	A	N7-C5	-6.38	1.35	1.39
1	N	1385	G	O4'-C1'	6.38	1.50	1.41
1	N	931	C	P-O5'	6.38	1.66	1.59
1	N	1243	C	N1-C6	6.38	1.41	1.37
1	N	667	G	N7-C5	-6.37	1.35	1.39
1	N	1004	A	C6-N6	6.37	1.39	1.33
1	N	1294	G	N9-C4	-6.37	1.32	1.38
1	N	215	C	C3'-C2'	6.37	1.59	1.52
1	N	546	A	O4'-C1'	-6.37	1.33	1.41
1	N	67	C	N1-C2	-6.37	1.33	1.40
1	N	42	G	C6-N1	6.37	1.44	1.39
1	N	306	A	C6-N6	6.37	1.39	1.33
1	N	82	G	C5-C4	6.37	1.42	1.38
1	N	948	C	P-O5'	6.37	1.66	1.59
1	N	1437	A	C8-N7	-6.37	1.27	1.31
1	N	1490	U	C5'-C4'	6.37	1.58	1.51
1	N	546	A	C6-N1	6.36	1.40	1.35
1	N	1429	A	C6-N6	-6.36	1.28	1.33
1	N	27	G	N3-C4	-6.36	1.30	1.35
1	N	36	C	C2-N3	6.36	1.40	1.35
1	N	1168	U	C2-N3	6.36	1.42	1.37
1	N	1215	G	O3'-P	-6.36	1.53	1.61
1	N	1277	C	N1-C6	6.36	1.41	1.37
1	N	1310	G	C6-O6	-6.36	1.18	1.24
1	N	286	C	C5'-C4'	6.36	1.58	1.51
1	N	1177	G	N9-C4	-6.36	1.32	1.38
1	N	1282	C	C4-C5	-6.36	1.37	1.43
1	N	1303	C	N1-C6	6.36	1.41	1.37
1	N	455	G	N9-C8	6.36	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	798	U	C2-O2	6.36	1.28	1.22
1	N	1437	A	C2'-C1'	-6.36	1.46	1.53
1	N	322	C	C2-O2	6.35	1.30	1.24
1	N	781	A	C4'-C3'	-6.35	1.46	1.53
1	N	525	C	P-O5'	6.35	1.66	1.59
1	N	1000	A	C5-C4	-6.35	1.34	1.38
1	N	792	A	N1-C2	6.35	1.40	1.34
1	N	900	A	C6-N1	6.35	1.40	1.35
1	N	1348	U	C2'-C1'	-6.35	1.46	1.53
1	N	1467	C	C2-N3	6.35	1.40	1.35
1	N	1482	G	C2'-C1'	-6.35	1.46	1.53
1	N	32	A	C3'-O3'	6.35	1.51	1.42
1	N	3	A	C6-N6	6.34	1.39	1.33
1	N	162	A	C5-C4	6.34	1.43	1.38
1	N	888	G	N9-C4	-6.34	1.32	1.38
1	N	1071	C	C1'-N1	6.34	1.58	1.48
1	N	1478	U	O4'-C1'	6.34	1.49	1.41
1	N	550	G	N1-C2	6.34	1.42	1.37
1	N	583	A	C5'-C4'	6.34	1.58	1.51
1	N	1262	C	N1-C6	6.34	1.41	1.37
1	N	364	A	C3'-C2'	-6.34	1.45	1.52
1	N	416	G	C8-N7	-6.34	1.27	1.30
1	N	1434	A	N1-C2	-6.34	1.28	1.34
1	N	554	A	C6-N6	6.34	1.39	1.33
1	N	577	G	C5-C4	-6.34	1.33	1.38
1	N	1028	C	P-O5'	-6.34	1.53	1.59
1	N	293	G	N3-C4	6.33	1.39	1.35
1	N	1265	C	N3-C4	6.33	1.38	1.33
1	N	1432	G	C5'-C4'	6.33	1.58	1.51
1	N	830	G	N3-C4	6.33	1.39	1.35
1	N	833	G	N1-C2	6.33	1.42	1.37
1	N	350	G	N9-C8	6.33	1.42	1.37
1	N	822	U	C4'-C3'	-6.33	1.46	1.53
1	N	1010	U	C3'-C2'	6.33	1.59	1.52
1	N	1353	G	O4'-C1'	6.33	1.49	1.41
1	N	97	G	N7-C5	-6.33	1.35	1.39
1	N	497	G	N9-C8	6.33	1.42	1.37
1	N	934	C	C5-C6	6.33	1.39	1.34
1	N	985	C	N3-C4	6.33	1.38	1.33
1	N	746	A	C2'-C1'	-6.33	1.46	1.53
1	N	137	U	N1-C6	6.32	1.43	1.38
1	N	543	U	C2'-C1'	-6.32	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	597	G	N1-C2	6.32	1.42	1.37
1	N	670	G	C3'-C2'	6.32	1.59	1.52
1	N	1423	G	C2-N2	6.32	1.40	1.34
1	N	251	G	C5-C4	6.32	1.42	1.38
1	N	499	A	C2-N3	6.32	1.39	1.33
1	N	622	A	N7-C5	-6.32	1.35	1.39
1	N	662	U	P-OP1	-6.32	1.38	1.49
1	N	918	A	C8-N7	-6.32	1.27	1.31
1	N	1504	G	O3'-P	-6.32	1.53	1.61
1	N	951	G	C5-C6	-6.32	1.36	1.42
1	N	913	A	N7-C5	-6.32	1.35	1.39
1	N	964	A	N3-C4	-6.32	1.31	1.34
1	N	305	G	C4'-C3'	6.31	1.60	1.53
1	N	425	G	P-O5'	-6.31	1.53	1.59
1	N	127	G	C6-N1	6.31	1.44	1.39
1	N	1346	A	C5'-C4'	6.31	1.58	1.51
1	N	276	G	N3-C4	6.31	1.39	1.35
1	N	1312	G	C5'-C4'	6.31	1.58	1.51
1	N	1386	G	N3-C4	-6.31	1.31	1.35
1	N	377	G	N7-C5	-6.30	1.35	1.39
1	N	592	G	C3'-C2'	6.30	1.59	1.52
1	N	951	G	N3-C4	-6.30	1.31	1.35
1	N	396	C	N3-C4	6.30	1.38	1.33
1	N	886	G	C5-C6	-6.30	1.36	1.42
1	N	1019	A	C6-N1	6.30	1.40	1.35
1	N	1437	A	N3-C4	-6.30	1.31	1.34
1	N	246	A	C6-N1	6.30	1.40	1.35
1	N	1105	A	N9-C8	6.30	1.42	1.37
1	N	558	G	C1'-N9	6.30	1.58	1.48
1	N	617	G	N1-C2	6.30	1.42	1.37
1	N	1326	U	N3-C4	6.30	1.44	1.38
1	N	1135	U	N3-C4	6.29	1.44	1.38
1	N	1297	G	C6-N1	6.29	1.44	1.39
1	N	515	G	N9-C8	6.29	1.42	1.37
1	N	789	U	N3-C4	6.29	1.44	1.38
1	N	799	G	C2-N2	6.29	1.40	1.34
1	N	929	G	C3'-C2'	-6.29	1.45	1.52
1	N	1044	A	C6-N1	6.29	1.40	1.35
1	N	1406	U	O4'-C1'	6.29	1.49	1.41
1	N	400	C	C2'-C1'	-6.29	1.46	1.53
1	N	560	A	C6-N6	6.29	1.39	1.33
1	N	512	U	C4-O4	6.29	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1116	U	C3'-O3'	6.29	1.50	1.42
1	N	667	G	C2-N2	6.29	1.40	1.34
1	N	1087	G	N1-C2	6.29	1.42	1.37
1	N	1366	C	C4-N4	6.29	1.39	1.33
1	N	1382	C	O3'-P	-6.29	1.53	1.61
1	N	479	U	C4-O4	-6.29	1.18	1.23
1	N	487	A	C5-C6	-6.29	1.35	1.41
1	N	977	A	C4'-C3'	6.29	1.60	1.53
1	N	28	A	C5'-C4'	6.29	1.58	1.51
1	N	32	A	N9-C4	-6.28	1.34	1.37
1	N	807	A	N9-C8	-6.28	1.32	1.37
1	N	267	C	C3'-C2'	6.28	1.59	1.52
1	N	365	U	N3-C4	6.28	1.44	1.38
1	N	967	C	N1-C2	6.28	1.46	1.40
1	N	1173	U	C4-O4	6.28	1.28	1.23
1	N	201	G	O3'-P	-6.28	1.53	1.61
1	N	611	C	C4-N4	6.28	1.39	1.33
1	N	1114	C	C4-N4	6.28	1.39	1.33
1	N	1283	U	C4-O4	-6.28	1.18	1.23
1	N	1365	G	C8-N7	-6.28	1.27	1.30
1	N	101	A	N9-C8	6.28	1.42	1.37
1	N	382	A	C6-N6	6.28	1.39	1.33
1	N	614	C	C2-N3	6.28	1.40	1.35
1	N	1377	A	N7-C5	-6.28	1.35	1.39
1	N	1386	G	N7-C5	-6.28	1.35	1.39
1	N	1108	G	C3'-C2'	-6.27	1.45	1.52
1	N	401	C	C5-C6	6.27	1.39	1.34
1	N	310	G	O3'-P	-6.27	1.53	1.61
1	N	764	C	C4-N4	6.27	1.39	1.33
1	N	833	G	P-O5'	-6.27	1.53	1.59
1	N	861	G	C2'-O2'	-6.27	1.33	1.41
1	N	1005	A	N9-C8	6.27	1.42	1.37
1	N	509	A	C5-C6	6.27	1.46	1.41
1	N	159	G	C2-N3	6.26	1.37	1.32
1	N	406	G	C8-N7	-6.26	1.27	1.30
1	N	678	U	C4'-C3'	6.26	1.60	1.53
1	N	612	C	N3-C4	6.26	1.38	1.33
1	N	1453	G	C2-N2	6.26	1.40	1.34
1	N	299	G	P-O5'	-6.26	1.53	1.59
1	N	931	C	N1-C6	-6.26	1.33	1.37
1	N	1023	U	C2'-C1'	-6.26	1.46	1.53
1	N	1450	U	O3'-P	-6.26	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	11	G	C6-N1	6.26	1.44	1.39
1	N	144	G	C5-C6	-6.26	1.36	1.42
1	N	273	U	N1-C6	-6.26	1.32	1.38
1	N	547	A	N7-C5	-6.26	1.35	1.39
1	N	1123	U	C4-O4	6.26	1.28	1.23
1	N	1300	G	C2-N3	6.25	1.37	1.32
1	N	369	G	C5'-C4'	6.25	1.58	1.51
1	N	1210	C	N3-C4	6.25	1.38	1.33
1	N	373	A	C5'-C4'	6.25	1.58	1.51
1	N	1270	G	P-O5'	6.25	1.66	1.59
1	N	210	C	O4'-C1'	-6.25	1.33	1.41
1	N	367	U	C4-O4	-6.25	1.18	1.23
1	N	1449	C	N3-C4	6.25	1.38	1.33
1	N	358	U	P-O5'	-6.25	1.53	1.59
1	N	393	A	N3-C4	6.25	1.38	1.34
1	N	1110	A	C2'-C1'	-6.25	1.46	1.53
1	N	1277	C	N3-C4	6.25	1.38	1.33
1	N	45	G	P-O5'	-6.24	1.53	1.59
1	N	148	G	O3'-P	6.24	1.68	1.61
1	N	486	U	C2-N3	6.24	1.42	1.37
1	N	1117	A	N7-C5	-6.24	1.35	1.39
1	N	1246	A	N7-C5	-6.24	1.35	1.39
1	N	1481	U	N3-C4	6.24	1.44	1.38
1	N	1218	C	C4-C5	-6.24	1.38	1.43
1	N	793	U	C4-O4	6.24	1.28	1.23
1	N	1213	A	N9-C8	6.24	1.42	1.37
1	N	1222	G	N1-C2	6.24	1.42	1.37
1	N	422	C	C4-C5	6.24	1.48	1.43
1	N	1032	G	O3'-P	-6.24	1.53	1.61
1	N	102	G	C5-C6	-6.23	1.36	1.42
1	N	128	G	N1-C2	6.23	1.42	1.37
1	N	439	U	C2-O2	6.23	1.27	1.22
1	N	754	C	C5'-C4'	6.23	1.58	1.51
1	N	778	G	C4'-C3'	6.23	1.60	1.53
1	N	1105	A	N7-C5	-6.23	1.35	1.39
1	N	825	A	N1-C2	6.23	1.40	1.34
1	N	831	A	N7-C5	-6.23	1.35	1.39
1	N	1457	G	C5-C6	6.23	1.48	1.42
1	N	1520	C	O4'-C1'	6.23	1.49	1.41
1	N	549	C	C5-C6	-6.23	1.29	1.34
1	N	625	U	C2-N3	6.23	1.42	1.37
1	N	1190	G	O3'-P	-6.23	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1206	G	N7-C5	-6.23	1.35	1.39
1	N	553	A	C5'-C4'	6.23	1.58	1.51
1	N	1009	U	C4-C5	6.23	1.49	1.43
1	N	184	G	N7-C5	-6.22	1.35	1.39
1	N	899	C	N3-C4	6.22	1.38	1.33
1	N	1448	C	C1'-N1	6.22	1.58	1.48
1	N	70	U	C5-C6	-6.22	1.28	1.34
1	N	304	U	N1-C6	6.22	1.43	1.38
1	N	211	G	O3'-P	-6.22	1.53	1.61
1	N	1258	G	N9-C8	-6.22	1.33	1.37
1	N	38	G	C2-N3	6.22	1.37	1.32
1	N	1279	G	N1-C2	6.22	1.42	1.37
1	N	131	A	C6-N1	6.21	1.39	1.35
1	N	219	U	P-O5'	-6.21	1.53	1.59
1	N	435	A	C6-N6	6.21	1.39	1.33
1	N	465	A	P-O5'	-6.21	1.53	1.59
1	N	1320	C	C4-C5	6.21	1.48	1.43
1	N	1386	G	C2'-C1'	-6.21	1.46	1.53
1	N	737	C	N3-C4	6.21	1.38	1.33
1	N	21	G	C8-N7	6.21	1.34	1.30
1	N	159	G	C5'-C4'	6.21	1.58	1.51
1	N	344	A	C2'-C1'	-6.21	1.46	1.53
1	N	792	A	C3'-C2'	-6.21	1.46	1.52
1	N	1097	C	N1-C2	-6.21	1.33	1.40
1	N	389	A	C4'-O4'	6.21	1.53	1.45
1	N	531	U	C2-N3	6.21	1.42	1.37
1	N	1017	U	O3'-P	-6.21	1.53	1.61
1	N	1401	G	C6-N1	6.21	1.43	1.39
1	N	445	G	C5-C4	6.21	1.42	1.38
1	N	453	G	C5'-C4'	6.21	1.58	1.51
1	N	648	A	C3'-C2'	6.21	1.59	1.52
1	N	1047	G	C5-C4	6.21	1.42	1.38
1	N	522	C	N1-C6	6.20	1.40	1.37
1	N	801	U	N1-C2	6.20	1.44	1.38
1	N	1183	U	O3'-P	-6.20	1.53	1.61
1	N	1497	G	N7-C5	-6.20	1.35	1.39
1	N	705	G	C5-C6	-6.20	1.36	1.42
1	N	425	G	N7-C5	-6.20	1.35	1.39
1	N	468	A	N3-C4	6.20	1.38	1.34
1	N	818	G	N9-C4	6.20	1.43	1.38
1	N	72	A	C4'-O4'	6.20	1.53	1.45
1	N	303	A	C2'-C1'	-6.20	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	433	G	C3'-O3'	6.20	1.50	1.42
1	N	434	U	N1-C6	6.20	1.43	1.38
1	N	487	A	C6-N6	6.20	1.39	1.33
1	N	1138	G	C2-N3	6.20	1.37	1.32
1	N	205	A	C6-N6	6.20	1.39	1.33
1	N	483	C	N1-C2	6.20	1.46	1.40
1	N	103	U	N1-C6	6.19	1.43	1.38
1	N	164	G	C3'-O3'	6.19	1.50	1.42
1	N	1086	U	O4'-C1'	6.19	1.49	1.41
1	N	246	A	N9-C8	-6.19	1.32	1.37
1	N	309	A	C3'-O3'	6.19	1.50	1.42
1	N	443	C	C4-N4	6.19	1.39	1.33
1	N	1064	G	P-O5'	-6.19	1.53	1.59
1	N	1076	U	N1-C6	6.19	1.43	1.38
1	N	1252	A	C5-C4	6.19	1.43	1.38
1	N	1455	G	N7-C5	-6.19	1.35	1.39
1	N	1180	A	C6-N6	6.19	1.39	1.33
1	N	201	G	N1-C2	6.19	1.42	1.37
1	N	1439	G	O3'-P	-6.19	1.53	1.61
1	N	1048	G	N1-C2	6.19	1.42	1.37
1	N	1197	A	C5'-C4'	6.19	1.58	1.51
1	N	1418	A	C2'-C1'	-6.19	1.46	1.53
1	N	39	G	C8-N7	-6.18	1.27	1.30
1	N	49	U	C1'-N1	6.18	1.58	1.48
1	N	80	A	N9-C8	-6.18	1.32	1.37
1	N	280	C	O3'-P	-6.18	1.53	1.61
1	N	687	A	C5'-C4'	6.18	1.58	1.51
1	N	361	G	C5-C4	6.18	1.42	1.38
1	N	1006	G	N9-C8	6.18	1.42	1.37
1	N	1149	C	P-O5'	-6.18	1.53	1.59
1	N	752	G	N9-C8	6.18	1.42	1.37
1	N	102	G	N9-C4	-6.18	1.33	1.38
1	N	198	G	C2-N3	6.18	1.37	1.32
1	N	506	G	C2'-C1'	-6.18	1.46	1.53
1	N	778	G	N1-C2	6.18	1.42	1.37
1	N	100	G	C5-C6	-6.17	1.36	1.42
1	N	127	G	C4'-O4'	6.17	1.53	1.45
1	N	666	G	C2-N3	6.17	1.37	1.32
1	N	991	U	N1-C2	6.17	1.44	1.38
1	N	1165	U	O3'-P	-6.17	1.53	1.61
1	N	652	U	C3'-C2'	6.17	1.59	1.52
1	N	746	A	C4'-O4'	6.17	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1300	G	N1-C2	6.17	1.42	1.37
1	N	498	A	C6-N1	6.17	1.39	1.35
1	N	534	U	C2-N3	6.17	1.42	1.37
1	N	1101	A	C6-N6	6.17	1.38	1.33
1	N	1204	A	C5-C4	6.17	1.43	1.38
1	N	1300	G	C6-N1	6.17	1.43	1.39
1	N	222	C	C4'-O4'	6.17	1.53	1.45
1	N	431	A	C6-N1	6.17	1.39	1.35
1	N	1397	C	C3'-C2'	6.17	1.59	1.52
1	N	133	U	C1'-N1	6.17	1.58	1.48
1	N	300	A	C6-N1	6.17	1.39	1.35
1	N	797	C	C4-C5	6.17	1.47	1.43
1	N	58	C	N3-C4	6.16	1.38	1.33
1	N	118	U	N3-C4	6.16	1.44	1.38
1	N	237	G	C8-N7	-6.16	1.27	1.30
1	N	847	G	C6-N1	6.16	1.43	1.39
1	N	1137	C	C4-N4	6.16	1.39	1.33
1	N	77	A	C8-N7	6.16	1.35	1.31
1	N	924	C	C5'-C4'	6.16	1.58	1.51
1	N	1018	G	O3'-P	-6.16	1.53	1.61
1	N	1418	A	C2-N3	6.16	1.39	1.33
1	N	145	G	P-O5'	-6.16	1.53	1.59
1	N	1504	G	N7-C5	-6.16	1.35	1.39
1	N	658	C	N1-C6	6.16	1.40	1.37
1	N	716	A	C2'-C1'	-6.16	1.46	1.53
1	N	869	G	C8-N7	6.16	1.34	1.30
1	N	212	G	C5-C4	6.15	1.42	1.38
1	N	804	U	N1-C6	-6.15	1.32	1.38
1	N	1275	A	C1'-N9	6.15	1.57	1.48
1	N	1408	A	C5-C4	6.15	1.43	1.38
1	N	1276	G	C2-N2	-6.15	1.28	1.34
1	N	202	G	N7-C5	6.15	1.43	1.39
1	N	656	G	P-O5'	-6.15	1.53	1.59
1	N	716	A	N9-C4	-6.15	1.34	1.37
1	N	899	C	N1-C2	6.15	1.46	1.40
1	N	433	G	N3-C4	-6.15	1.31	1.35
1	N	479	U	P-O5'	-6.15	1.53	1.59
1	N	688	G	N3-C4	-6.14	1.31	1.35
1	N	1015	G	N9-C4	6.14	1.42	1.38
1	N	166	U	O3'-P	-6.14	1.53	1.61
1	N	612	C	C4'-C3'	6.14	1.59	1.53
1	N	1266	G	C2'-C1'	-6.14	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1463	U	C5-C6	6.14	1.39	1.34
1	N	1094	G	C4'-C3'	6.14	1.59	1.53
1	N	1442	G	C6-N1	6.14	1.43	1.39
1	N	535	A	N9-C8	6.14	1.42	1.37
1	N	613	C	C5'-C4'	6.14	1.58	1.51
1	N	485	U	C2-O2	6.14	1.27	1.22
1	N	536	C	C4-C5	6.14	1.47	1.43
1	N	845	A	N1-C2	6.14	1.39	1.34
1	N	868	C	P-O5'	-6.14	1.53	1.59
1	N	183	C	C4-C5	6.13	1.47	1.43
1	N	773	G	C8-N7	-6.13	1.27	1.30
1	N	1517	G	C6-N1	6.13	1.43	1.39
1	N	432	A	C4'-C3'	-6.13	1.46	1.53
1	N	199	A	N7-C5	-6.13	1.35	1.39
1	N	776	G	N9-C8	-6.13	1.33	1.37
1	N	1210	C	C3'-C2'	-6.13	1.46	1.52
1	N	1152	A	C5-C6	6.13	1.46	1.41
1	N	97	G	O3'-P	-6.13	1.53	1.61
1	N	539	A	C6-N1	6.13	1.39	1.35
1	N	666	G	O3'-P	-6.13	1.53	1.61
1	N	790	A	O3'-P	-6.13	1.53	1.61
1	N	1239	A	C5-C4	-6.13	1.34	1.38
1	N	1447	A	C4'-O4'	6.13	1.53	1.45
1	N	424	G	C2-N3	6.13	1.37	1.32
1	N	476	U	O3'-P	-6.13	1.53	1.61
1	N	876	C	C5-C6	6.13	1.39	1.34
1	N	553	A	C8-N7	-6.12	1.27	1.31
1	N	1504	G	C6-N1	6.12	1.43	1.39
1	N	656	G	C3'-O3'	6.12	1.50	1.42
1	N	996	A	C8-N7	-6.12	1.27	1.31
1	N	147	G	O3'-P	-6.12	1.53	1.61
1	N	1253	G	P-O5'	-6.12	1.53	1.59
1	N	1375	A	C8-N7	-6.12	1.27	1.31
1	N	1417	G	C5-C4	6.12	1.42	1.38
1	N	28	A	N7-C5	-6.12	1.35	1.39
1	N	832	G	C5-C6	-6.12	1.36	1.42
1	N	837	U	P-O5'	6.12	1.65	1.59
1	N	302	G	C1'-N9	6.12	1.57	1.48
1	N	415	A	O3'-P	-6.12	1.53	1.61
1	N	774	G	P-O5'	-6.12	1.53	1.59
1	N	59	A	N9-C4	6.12	1.41	1.37
1	N	65	A	N1-C2	-6.12	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	942	G	C5'-C4'	6.12	1.58	1.51
1	N	39	G	N3-C4	-6.11	1.31	1.35
1	N	1127	G	C6-N1	6.11	1.43	1.39
1	N	128	G	N9-C4	6.11	1.42	1.38
1	N	774	G	N9-C4	6.11	1.42	1.38
1	N	847	G	C8-N7	-6.11	1.27	1.30
1	N	1434	A	C8-N7	-6.11	1.27	1.31
1	N	1509	C	N3-C4	6.11	1.38	1.33
1	N	456	A	C4'-C3'	6.11	1.59	1.53
1	N	661	G	O3'-P	6.11	1.68	1.61
1	N	507	C	C2-O2	6.11	1.29	1.24
1	N	1146	A	P-O5'	-6.11	1.53	1.59
1	N	947	G	O3'-P	-6.10	1.53	1.61
1	N	1205	U	N1-C2	-6.10	1.33	1.38
1	N	76	G	C6-N1	6.10	1.43	1.39
1	N	771	G	C4'-C3'	-6.10	1.46	1.53
1	N	975	A	C5-C4	-6.10	1.34	1.38
1	N	1352	C	C5-C6	-6.10	1.29	1.34
1	N	126	G	C8-N7	-6.10	1.27	1.30
1	N	475	C	C4-N4	6.10	1.39	1.33
1	N	711	G	C6-N1	6.10	1.43	1.39
1	N	163	C	C2'-C1'	-6.10	1.46	1.53
1	N	571	U	O3'-P	-6.10	1.53	1.61
1	N	1313	U	P-O5'	-6.10	1.53	1.59
1	N	1334	G	N9-C4	-6.10	1.33	1.38
1	N	212	G	N9-C4	-6.09	1.33	1.38
1	N	683	G	C2-N2	6.09	1.40	1.34
1	N	689	C	C2-N3	6.09	1.40	1.35
1	N	179	A	C6-N1	6.09	1.39	1.35
1	N	942	G	C3'-O3'	6.09	1.50	1.42
1	N	1021	A	C5-C6	-6.09	1.35	1.41
1	N	1288	A	P-O5'	-6.09	1.53	1.59
1	N	182	A	C6-N1	6.09	1.39	1.35
1	N	359	G	N1-C2	6.09	1.42	1.37
1	N	447	G	C8-N7	-6.09	1.27	1.30
1	N	580	C	C4-C5	6.09	1.47	1.43
1	N	673	A	N9-C4	6.09	1.41	1.37
1	N	1013	G	O4'-C1'	-6.09	1.33	1.41
1	N	989	U	C4-C5	6.09	1.49	1.43
1	N	1120	C	C4-N4	6.09	1.39	1.33
1	N	1126	U	C4-C5	6.09	1.49	1.43
1	N	51	A	C6-N6	6.08	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	198	G	N9-C4	-6.08	1.33	1.38
1	N	82	G	N9-C4	-6.08	1.33	1.38
1	N	292	G	N1-C2	6.08	1.42	1.37
1	N	1236	A	N9-C8	6.08	1.42	1.37
1	N	1269	A	C3'-C2'	-6.08	1.46	1.52
1	N	1427	C	N1-C6	-6.08	1.33	1.37
1	N	235	C	C4'-C3'	-6.08	1.46	1.53
1	N	339	C	P-O5'	-6.08	1.53	1.59
1	N	497	G	C2'-C1'	-6.08	1.46	1.53
1	N	1371	G	C2-N3	6.08	1.37	1.32
1	N	1475	G	C2-N3	6.08	1.37	1.32
1	N	247	G	N9-C4	6.08	1.42	1.38
1	N	1475	G	C2-N2	6.08	1.40	1.34
1	N	383	A	C5'-C4'	6.08	1.58	1.51
1	N	548	G	C5-C6	-6.08	1.36	1.42
1	N	620	C	O3'-P	-6.08	1.53	1.61
1	N	1245	C	N1-C6	6.08	1.40	1.37
1	N	187	G	C2'-C1'	-6.08	1.46	1.53
1	N	683	G	C3'-C2'	6.08	1.59	1.52
1	N	985	C	O4'-C1'	6.08	1.49	1.41
1	N	1108	G	P-O5'	6.08	1.65	1.59
1	N	1525	G	C2-N2	6.08	1.40	1.34
1	N	220	G	C6-N1	6.07	1.43	1.39
1	N	831	A	C3'-C2'	6.07	1.59	1.52
1	N	909	A	C6-N1	6.07	1.39	1.35
1	N	992	U	C4'-C3'	6.07	1.59	1.53
1	N	1054	C	N1-C6	6.07	1.40	1.37
1	N	68	G	C6-N1	6.07	1.43	1.39
1	N	356	A	C6-N6	6.07	1.38	1.33
1	N	647	C	C1'-N1	6.07	1.57	1.48
1	N	1035	A	O5'-C5'	-6.07	1.33	1.42
1	N	1168	U	C1'-N1	6.07	1.57	1.48
1	N	1344	C	C4-N4	6.07	1.39	1.33
1	N	93	U	O4'-C1'	6.07	1.49	1.41
1	N	954	G	C8-N7	-6.07	1.27	1.30
1	N	1095	U	N1-C6	6.07	1.43	1.38
1	N	116	A	C6-N6	6.07	1.38	1.33
1	N	370	C	N3-C4	6.07	1.38	1.33
1	N	1005	A	C8-N7	-6.06	1.27	1.31
1	N	1194	U	C2'-O2'	-6.06	1.33	1.41
1	N	284	C	C4'-C3'	-6.06	1.46	1.53
1	N	669	G	C1'-N9	6.06	1.57	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1193	G	N7-C5	-6.06	1.35	1.39
1	N	1356	G	O3'-P	-6.06	1.53	1.61
1	N	1510	C	C3'-C2'	-6.06	1.46	1.52
1	N	236	A	O3'-P	-6.06	1.53	1.61
1	N	347	G	C5'-C4'	6.06	1.58	1.51
1	N	740	U	C2-N3	6.06	1.42	1.37
1	N	1123	U	C4-C5	6.06	1.49	1.43
1	N	1342	C	C2-N3	6.06	1.40	1.35
1	N	575	G	O3'-P	-6.06	1.53	1.61
1	N	1340	A	C5-C4	6.05	1.43	1.38
1	N	267	C	C2-N3	6.05	1.40	1.35
1	N	1296	C	C2'-C1'	-6.05	1.46	1.53
1	N	1423	G	N3-C4	-6.05	1.31	1.35
1	N	995	C	C5'-C4'	6.05	1.58	1.51
1	N	180	U	P-O5'	-6.05	1.53	1.59
1	N	365	U	C4'-O4'	-6.05	1.37	1.45
1	N	859	G	C8-N7	-6.05	1.27	1.30
1	N	1102	A	C6-N6	6.05	1.38	1.33
1	N	1140	C	C5-C6	-6.05	1.29	1.34
1	N	118	U	C2-N3	6.05	1.42	1.37
1	N	1316	G	C4'-O4'	6.05	1.53	1.45
1	N	298	A	C5-C4	6.05	1.43	1.38
1	N	1143	G	C2-N2	6.05	1.40	1.34
1	N	1287	A	C2-N3	6.05	1.39	1.33
1	N	332	G	N3-C4	-6.04	1.31	1.35
1	N	729	A	C6-N6	6.04	1.38	1.33
1	N	959	A	C4'-C3'	6.04	1.59	1.53
1	N	1043	G	N7-C5	-6.04	1.35	1.39
1	N	1501	C	N3-C4	6.04	1.38	1.33
1	N	265	G	N1-C2	6.04	1.42	1.37
1	N	307	C	C4'-O4'	-6.04	1.37	1.45
1	N	377	G	N3-C4	-6.04	1.31	1.35
1	N	432	A	C8-N7	-6.04	1.27	1.31
1	N	445	G	O4'-C1'	6.04	1.49	1.41
1	N	1430	A	C6-N1	6.04	1.39	1.35
1	N	436	C	C2-N3	6.04	1.40	1.35
1	N	45	G	C5-C6	-6.04	1.36	1.42
1	N	538	G	N7-C5	-6.04	1.35	1.39
1	N	871	U	C4'-C3'	-6.04	1.46	1.53
1	N	1482	G	C6-N1	6.04	1.43	1.39
1	N	53	A	P-O5'	-6.04	1.53	1.59
1	N	276	G	C6-N1	6.04	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1089	G	N3-C4	-6.04	1.31	1.35
1	N	1356	G	C5-C4	6.04	1.42	1.38
1	N	1009	U	C3'-C2'	6.03	1.59	1.52
1	N	1202	U	N1-C6	6.03	1.43	1.38
1	N	86	G	N7-C5	-6.03	1.35	1.39
1	N	520	A	C8-N7	-6.03	1.27	1.31
1	N	1193	G	C4'-C3'	6.03	1.59	1.53
1	N	213	G	N9-C8	-6.03	1.33	1.37
1	N	470	C	C4-C5	6.03	1.47	1.43
1	N	644	U	C4'-C3'	-6.03	1.46	1.53
1	N	76	G	N9-C4	6.03	1.42	1.38
1	N	258	G	C2-N3	6.03	1.37	1.32
1	N	667	G	N3-C4	-6.03	1.31	1.35
1	N	1361	G	C6-O6	-6.03	1.18	1.24
1	N	1163	A	C2-N3	-6.02	1.28	1.33
1	N	383	A	C6-N6	-6.02	1.29	1.33
1	N	716	A	N3-C4	-6.02	1.31	1.34
1	N	893	C	N1-C2	-6.02	1.34	1.40
1	N	1029	U	C2-N3	6.02	1.42	1.37
1	N	1070	U	C5-C6	6.02	1.39	1.34
1	N	455	G	C2-N3	6.02	1.37	1.32
1	N	861	G	N9-C8	-6.02	1.33	1.37
1	N	966	G	O4'-C1'	-6.02	1.33	1.41
1	N	1213	A	C3'-O3'	6.02	1.50	1.42
1	N	1460	C	N1-C6	-6.02	1.33	1.37
1	N	776	G	C5-C6	-6.02	1.36	1.42
1	N	817	C	C4-C5	-6.02	1.38	1.43
1	N	1305	G	N7-C5	-6.02	1.35	1.39
1	N	1417	G	C5'-C4'	6.02	1.58	1.51
1	N	297	G	N7-C5	-6.02	1.35	1.39
1	N	344	A	C6-N6	6.02	1.38	1.33
1	N	174	A	C2'-C1'	-6.01	1.46	1.53
1	N	316	C	C2-N3	-6.01	1.30	1.35
1	N	528	C	C3'-C2'	-6.01	1.46	1.52
1	N	1029	U	N1-C6	6.01	1.43	1.38
1	N	1511	G	P-O5'	-6.01	1.53	1.59
1	N	492	C	C3'-C2'	-6.01	1.46	1.52
1	N	759	A	N9-C4	-6.01	1.34	1.37
1	N	121	U	C3'-O3'	6.01	1.50	1.42
1	N	907	A	N9-C8	-6.01	1.32	1.37
1	N	1417	G	P-O5'	-6.01	1.53	1.59
1	N	322	C	C4-N4	6.01	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	622	A	C6-N1	6.01	1.39	1.35
1	N	741	G	O4'-C1'	-6.01	1.33	1.41
1	N	1111	A	P-O5'	6.01	1.65	1.59
1	N	718	A	C2'-C1'	-6.01	1.46	1.53
1	N	784	A	N7-C5	-6.01	1.35	1.39
1	N	718	A	C3'-O3'	-6.00	1.33	1.42
1	N	805	C	P-O5'	-6.00	1.53	1.59
1	N	74	A	C6-N6	6.00	1.38	1.33
1	N	320	A	N3-C4	6.00	1.38	1.34
1	N	544	G	C6-O6	-6.00	1.18	1.24
1	N	562	U	O3'-P	-6.00	1.53	1.61
1	N	654	G	N1-C2	6.00	1.42	1.37
1	N	756	C	C4-N4	6.00	1.39	1.33
1	N	828	U	O3'-P	6.00	1.68	1.61
1	N	1058	G	C5-C6	-6.00	1.36	1.42
1	N	739	C	C4-N4	6.00	1.39	1.33
1	N	1132	C	C1'-N1	6.00	1.57	1.48
1	N	1233	G	C6-O6	6.00	1.29	1.24
1	N	1193	G	N9-C8	-6.00	1.33	1.37
1	N	155	A	C8-N7	-6.00	1.27	1.31
1	N	563	A	C6-N6	6.00	1.38	1.33
1	N	978	A	C2'-C1'	-6.00	1.46	1.53
1	N	540	G	C5-C4	6.00	1.42	1.38
1	N	1083	U	C5'-C4'	6.00	1.58	1.51
1	N	188	C	P-O5'	5.99	1.65	1.59
1	N	486	U	C4'-C3'	5.99	1.59	1.53
1	N	728	A	C5'-C4'	5.99	1.58	1.51
1	N	647	C	C4-C5	-5.99	1.38	1.43
1	N	898	G	P-O5'	-5.99	1.53	1.59
1	N	932	C	C4'-O4'	-5.99	1.37	1.45
1	N	1375	A	O3'-P	-5.99	1.53	1.61
1	N	318	G	P-O5'	-5.99	1.53	1.59
1	N	792	A	C8-N7	-5.99	1.27	1.31
1	N	1523	G	C4'-C3'	-5.99	1.46	1.52
1	N	1242	G	C2-N2	5.99	1.40	1.34
1	N	233	C	C1'-N1	5.99	1.57	1.48
1	N	303	A	N3-C4	-5.99	1.31	1.34
1	N	1367	C	N1-C6	-5.99	1.33	1.37
1	N	1336	C	O3'-P	-5.98	1.53	1.61
1	N	1393	U	N3-C4	5.98	1.43	1.38
1	N	723	U	C2-N3	5.98	1.42	1.37
1	N	1487	G	N3-C4	-5.98	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	511	C	C5-C6	5.98	1.39	1.34
1	N	788	U	O4'-C1'	-5.98	1.33	1.41
1	N	914	A	C3'-O3'	5.98	1.50	1.42
1	N	1039	G	N9-C4	5.98	1.42	1.38
1	N	102	G	P-O5'	-5.97	1.53	1.59
1	N	226	G	N1-C2	5.97	1.42	1.37
1	N	951	G	N9-C8	-5.97	1.33	1.37
1	N	1015	G	N9-C8	-5.97	1.33	1.37
1	N	1422	G	C2-N3	5.97	1.37	1.32
1	N	696	A	N9-C4	5.97	1.41	1.37
1	N	1174	G	C5'-C4'	5.97	1.58	1.51
1	N	1214	C	C5'-C4'	5.97	1.58	1.51
1	N	417	G	O3'-P	-5.97	1.53	1.61
1	N	464	U	O3'-P	-5.97	1.53	1.61
1	N	689	C	C4-N4	5.97	1.39	1.33
1	N	98	A	N9-C4	-5.97	1.34	1.37
1	N	534	U	C5-C6	5.97	1.39	1.34
1	N	965	U	C4-C5	-5.97	1.38	1.43
1	N	1112	C	C5-C6	5.97	1.39	1.34
1	N	174	A	O3'-P	-5.97	1.53	1.61
1	N	175	C	C4'-C3'	5.97	1.59	1.53
1	N	1047	G	C6-N1	5.97	1.43	1.39
1	N	1343	G	C8-N7	5.97	1.34	1.30
1	N	1446	A	C6-N6	5.97	1.38	1.33
1	N	211	G	N1-C2	5.96	1.42	1.37
1	N	650	G	N9-C8	5.96	1.42	1.37
1	N	795	C	C1'-N1	5.96	1.57	1.48
1	N	922	G	N1-C2	5.96	1.42	1.37
1	N	929	G	C4'-O4'	-5.96	1.37	1.45
1	N	1395	C	O3'-P	-5.96	1.53	1.61
1	N	27	G	C4'-C3'	5.96	1.59	1.53
1	N	84	U	C4-O4	5.96	1.28	1.23
1	N	721	G	C6-O6	5.96	1.29	1.24
1	N	860	A	C6-N6	5.96	1.38	1.33
1	N	886	G	C8-N7	-5.96	1.27	1.30
1	N	907	A	C2'-C1'	-5.96	1.46	1.53
1	N	1215	G	C3'-O3'	5.96	1.50	1.42
1	N	1390	U	C5'-C4'	5.96	1.58	1.51
1	N	1518	A	C2-N3	5.96	1.39	1.33
1	N	232	G	C6-N1	5.96	1.43	1.39
1	N	338	A	C1'-N9	5.96	1.57	1.48
1	N	614	C	C4'-C3'	-5.96	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	677	U	C4-C5	-5.96	1.38	1.43
1	N	1079	G	C5'-C4'	5.96	1.58	1.51
1	N	1534	A	N9-C4	5.96	1.41	1.37
1	N	744	C	C2-N3	5.96	1.40	1.35
1	N	53	A	C6-N6	5.95	1.38	1.33
1	N	821	G	P-O5'	-5.95	1.53	1.59
1	N	894	G	C2'-C1'	-5.95	1.46	1.53
1	N	1041	G	C2'-C1'	-5.95	1.46	1.53
1	N	1111	A	C4'-O4'	5.95	1.53	1.45
1	N	1248	A	N9-C4	-5.95	1.34	1.37
1	N	369	G	C4'-O4'	-5.95	1.37	1.45
1	N	1164	G	N9-C8	-5.95	1.33	1.37
1	N	1362	A	C5-C6	-5.95	1.35	1.41
1	N	1468	A	C5'-C4'	5.95	1.58	1.51
1	N	1312	G	C5-C6	-5.95	1.36	1.42
1	N	871	U	N3-C4	5.95	1.43	1.38
1	N	507	C	C4-N4	5.95	1.39	1.33
1	N	1421	G	N7-C5	-5.95	1.35	1.39
1	N	109	A	C8-N7	-5.95	1.27	1.31
1	N	311	C	O4'-C1'	5.95	1.49	1.41
1	N	684	U	N1-C6	5.95	1.43	1.38
1	N	1253	G	N1-C2	5.95	1.42	1.37
1	N	601	G	C2-N2	5.94	1.40	1.34
1	N	747	A	C5-C4	-5.94	1.34	1.38
1	N	172	A	C5-C4	5.94	1.43	1.38
1	N	1136	C	C5-C6	-5.94	1.29	1.34
1	N	1350	A	C6-N1	5.94	1.39	1.35
1	N	371	A	C6-N1	5.94	1.39	1.35
1	N	597	G	O4'-C1'	5.94	1.49	1.41
1	N	1451	U	C4'-C3'	5.94	1.59	1.53
1	N	295	C	C4'-O4'	5.94	1.53	1.45
1	N	528	C	C4-N4	5.94	1.39	1.33
1	N	1350	A	N7-C5	-5.93	1.35	1.39
1	N	295	C	C5-C6	-5.93	1.29	1.34
1	N	346	G	C6-O6	-5.93	1.18	1.24
1	N	1048	G	C8-N7	-5.93	1.27	1.30
1	N	605	U	N1-C6	-5.93	1.32	1.38
1	N	623	C	C2-N3	5.93	1.40	1.35
1	N	705	G	C4'-C3'	5.93	1.59	1.53
1	N	796	C	P-O5'	-5.93	1.53	1.59
1	N	950	U	C2-N3	5.93	1.41	1.37
1	N	1487	G	C3'-C2'	5.93	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1086	U	N1-C6	-5.93	1.32	1.38
1	N	1423	G	N1-C2	5.93	1.42	1.37
1	N	7	A	C5'-C4'	5.92	1.58	1.51
1	N	172	A	C6-N1	-5.92	1.31	1.35
1	N	220	G	C2-N2	5.92	1.40	1.34
1	N	419	C	O4'-C1'	5.92	1.49	1.41
1	N	914	A	C2'-C1'	-5.92	1.46	1.53
1	N	1424	U	N1-C2	5.92	1.43	1.38
1	N	1531	A	C6-N1	5.92	1.39	1.35
1	N	170	U	O3'-P	-5.92	1.54	1.61
1	N	786	G	C6-N1	5.92	1.43	1.39
1	N	1166	G	C6-N1	5.92	1.43	1.39
1	N	1201	A	C5-C4	5.92	1.42	1.38
1	N	72	A	C2-N3	5.92	1.38	1.33
1	N	890	G	C3'-C2'	5.92	1.59	1.52
1	N	1038	C	N1-C6	5.92	1.40	1.37
1	N	1168	U	P-O5'	-5.92	1.53	1.59
1	N	188	C	C4'-C3'	5.92	1.59	1.53
1	N	328	C	C4'-C3'	5.92	1.59	1.53
1	N	27	G	N7-C5	-5.92	1.35	1.39
1	N	642	A	C6-N6	5.92	1.38	1.33
1	N	1073	U	C1'-N1	5.92	1.57	1.48
1	N	1039	G	N1-C2	5.91	1.42	1.37
1	N	736	C	O3'-P	-5.91	1.54	1.61
1	N	411	A	C4'-O4'	5.91	1.53	1.45
1	N	601	G	N9-C8	-5.91	1.33	1.37
1	N	712	A	C6-N6	5.91	1.38	1.33
1	N	883	C	O5'-C5'	5.91	1.53	1.44
1	N	450	G	O3'-P	-5.91	1.54	1.61
1	N	1023	U	C4-C5	-5.91	1.38	1.43
1	N	1444	U	C2'-C1'	-5.91	1.46	1.53
1	N	1309	G	C2-N2	5.91	1.40	1.34
1	N	849	G	C8-N7	-5.91	1.27	1.30
1	N	964	A	C3'-C2'	5.91	1.59	1.52
1	N	424	G	C2-N2	5.90	1.40	1.34
1	N	635	A	C4'-O4'	-5.90	1.37	1.45
1	N	1297	G	C2'-C1'	-5.90	1.46	1.53
1	N	1330	U	P-O5'	-5.90	1.53	1.59
1	N	15	G	C5-C6	-5.90	1.36	1.42
1	N	96	U	C3'-C2'	5.90	1.59	1.52
1	N	356	A	C6-N1	5.90	1.39	1.35
1	N	695	A	C8-N7	-5.90	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1501	C	C2'-O2'	-5.90	1.33	1.41
1	N	114	U	C3'-O3'	5.90	1.50	1.42
1	N	909	A	N9-C4	5.90	1.41	1.37
1	N	950	U	C3'-C2'	-5.90	1.46	1.52
1	N	572	A	C5'-C4'	5.90	1.58	1.51
1	N	1271	A	P-O5'	-5.90	1.53	1.59
1	N	1443	C	O4'-C1'	5.90	1.49	1.41
1	N	994	A	N9-C4	5.89	1.41	1.37
1	N	1031	C	N3-C4	5.89	1.38	1.33
1	N	1234	C	C4-N4	5.89	1.39	1.33
1	N	538	G	C2-N3	5.89	1.37	1.32
1	N	117	G	P-O5'	-5.89	1.53	1.59
1	N	952	U	N3-C4	5.89	1.43	1.38
1	N	1028	C	C2'-C1'	-5.89	1.46	1.53
1	N	1301	U	C1'-N1	5.89	1.57	1.48
1	N	543	U	N3-C4	5.89	1.43	1.38
1	N	877	G	C5'-C4'	5.89	1.58	1.51
1	N	24	U	C4'-C3'	-5.89	1.46	1.52
1	N	55	A	C3'-C2'	5.89	1.59	1.52
1	N	190	A	C6-N6	5.89	1.38	1.33
1	N	588	G	C2'-C1'	-5.89	1.46	1.53
1	N	655	A	C6-N6	5.89	1.38	1.33
1	N	1123	U	C4'-C3'	-5.89	1.46	1.52
1	N	1311	A	P-O5'	-5.89	1.53	1.59
1	N	1481	U	C1'-N1	5.89	1.57	1.48
1	N	347	G	N9-C4	-5.88	1.33	1.38
1	N	1222	G	C2'-C1'	-5.88	1.46	1.53
1	N	1389	C	N3-C4	5.88	1.38	1.33
1	N	331	G	C2'-C1'	-5.88	1.46	1.53
1	N	280	C	C4'-C3'	5.88	1.59	1.53
1	N	938	A	C4'-C3'	5.88	1.59	1.53
1	N	1043	G	C2-N2	5.88	1.40	1.34
1	N	778	G	N9-C4	-5.88	1.33	1.38
1	N	1104	G	O4'-C1'	5.88	1.49	1.41
1	N	324	G	C8-N7	5.88	1.34	1.30
1	N	1191	A	N9-C8	5.88	1.42	1.37
1	N	291	U	C4'-O4'	5.88	1.53	1.45
1	N	678	U	P-O5'	-5.88	1.53	1.59
1	N	1110	A	C2-N3	-5.88	1.28	1.33
1	N	1348	U	C3'-O3'	5.88	1.50	1.42
1	N	1342	C	P-O5'	-5.88	1.53	1.59
1	N	28	A	C8-N7	5.87	1.35	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	241	G	C5-C4	5.87	1.42	1.38
1	N	424	G	N3-C4	-5.87	1.31	1.35
1	N	1184	G	C5'-C4'	5.87	1.58	1.51
1	N	680	C	C4-N4	5.87	1.39	1.33
1	N	1343	G	C1'-N9	5.87	1.57	1.48
1	N	1482	G	C2-N3	5.87	1.37	1.32
1	N	1041	G	P-O5'	-5.87	1.53	1.59
1	N	1115	U	N3-C4	5.87	1.43	1.38
1	N	289	G	C8-N7	5.87	1.34	1.30
1	N	133	U	C4'-C3'	-5.87	1.46	1.52
1	N	241	G	C2-N3	5.87	1.37	1.32
1	N	966	G	C2-N2	5.87	1.40	1.34
1	N	1179	A	C2-N3	5.87	1.38	1.33
1	N	165	G	C5-C6	-5.87	1.36	1.42
1	N	278	G	C2-N3	5.87	1.37	1.32
1	N	421	U	N1-C2	5.87	1.43	1.38
1	N	867	G	N3-C4	5.87	1.39	1.35
1	N	105	G	C4'-O4'	-5.86	1.38	1.45
1	N	146	G	C5'-C4'	5.86	1.58	1.51
1	N	202	G	O4'-C1'	-5.86	1.34	1.41
1	N	263	A	O3'-P	-5.86	1.54	1.61
1	N	250	A	P-O5'	-5.86	1.53	1.59
1	N	973	G	C2-N3	5.86	1.37	1.32
1	N	356	A	C5'-C4'	5.86	1.58	1.51
1	N	1045	C	O3'-P	-5.86	1.54	1.61
1	N	1193	G	C2-N2	-5.86	1.28	1.34
1	N	1003	G	N3-C4	-5.86	1.31	1.35
1	N	687	A	N3-C4	-5.86	1.31	1.34
1	N	903	G	N9-C8	-5.86	1.33	1.37
1	N	933	G	N3-C4	-5.86	1.31	1.35
1	N	1117	A	C6-N6	5.86	1.38	1.33
1	N	270	A	N3-C4	-5.86	1.31	1.34
1	N	448	A	N3-C4	-5.86	1.31	1.34
1	N	1427	C	C4'-C3'	5.86	1.59	1.53
1	N	592	G	C4'-C3'	5.85	1.59	1.53
1	N	738	C	C2-N3	5.85	1.40	1.35
1	N	836	G	C6-N1	5.85	1.43	1.39
1	N	1029	U	C5-C6	5.85	1.39	1.34
1	N	119	A	C2-N3	-5.85	1.28	1.33
1	N	469	C	C3'-C2'	-5.85	1.46	1.52
1	N	1101	A	N7-C5	-5.85	1.35	1.39
1	N	477	C	C5'-C4'	5.85	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	979	C	C4-N4	5.85	1.39	1.33
1	N	1343	G	C2'-C1'	-5.85	1.47	1.53
1	N	469	C	C1'-N1	5.85	1.57	1.48
1	N	870	U	C4-C5	-5.85	1.38	1.43
1	N	224	U	N1-C6	5.84	1.43	1.38
1	N	368	U	O4'-C1'	5.84	1.49	1.41
1	N	1058	G	C3'-O3'	5.84	1.50	1.42
1	N	1208	C	C2'-C1'	5.84	1.59	1.53
1	N	1347	G	C5-C6	-5.84	1.36	1.42
1	N	1382	C	C2'-C1'	-5.84	1.47	1.53
1	N	113	G	N9-C8	5.84	1.42	1.37
1	N	138	G	N9-C4	-5.84	1.33	1.38
1	N	1482	G	N3-C4	5.84	1.39	1.35
1	N	18	C	N1-C2	-5.84	1.34	1.40
1	N	44	A	P-O5'	-5.84	1.53	1.59
1	N	328	C	C3'-C2'	-5.84	1.46	1.52
1	N	541	G	O3'-P	-5.84	1.54	1.61
1	N	852	G	O3'-P	-5.84	1.54	1.61
1	N	1380	U	C4'-C3'	5.84	1.59	1.53
1	N	1089	G	C2-N2	5.84	1.40	1.34
1	N	72	A	C5-C6	-5.84	1.35	1.41
1	N	169	C	P-O5'	-5.84	1.53	1.59
1	N	285	C	N1-C6	5.84	1.40	1.37
1	N	643	C	C4'-O4'	-5.84	1.38	1.45
1	N	1483	A	C4'-C3'	5.84	1.59	1.53
1	N	351	G	C5'-C4'	5.83	1.58	1.51
1	N	549	C	N1-C2	-5.83	1.34	1.40
1	N	887	G	C2-N2	-5.83	1.28	1.34
1	N	1035	A	C5'-C4'	5.83	1.58	1.51
1	N	377	G	N9-C4	-5.83	1.33	1.38
1	N	695	A	N3-C4	5.83	1.38	1.34
1	N	1170	A	C4'-C3'	5.83	1.59	1.53
1	N	1404	C	P-O5'	-5.83	1.53	1.59
1	N	252	U	O4'-C1'	5.83	1.49	1.41
1	N	593	U	N1-C2	-5.83	1.33	1.38
1	N	1286	U	C5'-C4'	5.83	1.58	1.51
1	N	1443	C	C1'-N1	5.83	1.57	1.48
1	N	1516	G	P-O5'	-5.83	1.53	1.59
1	N	472	U	C5'-C4'	5.83	1.58	1.51
1	N	477	C	C5-C6	-5.83	1.29	1.34
1	N	589	U	P-O5'	-5.83	1.53	1.59
1	N	998	C	C5'-C4'	5.83	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	379	C	C4'-O4'	-5.83	1.38	1.45
1	N	857	C	C2-N3	5.83	1.40	1.35
1	N	1248	A	C5-C4	5.83	1.42	1.38
1	N	1436	U	C2-N3	5.83	1.41	1.37
1	N	23	C	C2'-C1'	-5.83	1.47	1.53
1	N	910	C	P-O5'	5.83	1.65	1.59
1	N	1139	G	C8-N7	-5.83	1.27	1.30
1	N	1436	U	C3'-C2'	5.83	1.59	1.52
1	N	1468	A	C2'-C1'	-5.83	1.47	1.53
1	N	113	G	O4'-C1'	5.82	1.49	1.41
1	N	510	A	N3-C4	-5.82	1.31	1.34
1	N	576	C	N3-C4	5.82	1.38	1.33
1	N	590	U	N3-C4	5.82	1.43	1.38
1	N	1300	G	C2-N2	5.82	1.40	1.34
1	N	1341	U	C4-C5	5.82	1.48	1.43
1	N	24	U	C2-N3	5.82	1.41	1.37
1	N	944	G	P-O5'	-5.82	1.53	1.59
1	N	1239	A	N9-C4	-5.82	1.34	1.37
1	N	1250	A	C2'-C1'	-5.82	1.47	1.53
1	N	1357	A	C8-N7	-5.82	1.27	1.31
1	N	1521	C	C2'-C1'	-5.82	1.47	1.53
1	N	794	A	C6-N1	5.82	1.39	1.35
1	N	850	U	N3-C4	5.82	1.43	1.38
1	N	1212	U	N3-C4	5.82	1.43	1.38
1	N	412	A	N7-C5	-5.82	1.35	1.39
1	N	710	G	N9-C4	-5.82	1.33	1.38
1	N	716	A	C6-N1	5.82	1.39	1.35
1	N	535	A	N3-C4	-5.82	1.31	1.34
1	N	916	U	C2'-C1'	-5.82	1.47	1.53
1	N	1042	A	N7-C5	-5.82	1.35	1.39
1	N	967	C	P-O5'	5.81	1.65	1.59
1	N	165	G	P-O5'	-5.81	1.53	1.59
1	N	166	U	C5'-C4'	5.81	1.58	1.51
1	N	360	G	N9-C8	-5.81	1.33	1.37
1	N	379	C	N3-C4	5.81	1.38	1.33
1	N	1191	A	C5'-C4'	5.81	1.58	1.51
1	N	108	G	N1-C2	5.81	1.42	1.37
1	N	1032	G	C6-N1	5.81	1.43	1.39
1	N	1333	A	C6-N1	5.81	1.39	1.35
1	N	368	U	C5'-C4'	5.81	1.58	1.51
1	N	385	C	C3'-C2'	-5.81	1.46	1.52
1	N	625	U	C2'-C1'	-5.81	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	884	U	N1-C6	5.81	1.43	1.38
1	N	1495	U	C3'-C2'	5.81	1.59	1.52
1	N	594	U	N1-C6	5.80	1.43	1.38
1	N	1058	G	N1-C2	5.80	1.42	1.37
1	N	1515	G	C5'-C4'	5.80	1.58	1.51
1	N	157	U	N1-C2	-5.80	1.33	1.38
1	N	559	A	C6-N6	5.80	1.38	1.33
1	N	94	G	N1-C2	5.80	1.42	1.37
1	N	284	C	P-O5'	-5.80	1.53	1.59
1	N	989	U	O3'-P	-5.80	1.54	1.61
1	N	1407	C	C1'-N1	5.80	1.57	1.48
1	N	1507	A	C5'-C4'	5.80	1.58	1.51
1	N	745	G	N9-C4	-5.80	1.33	1.38
1	N	1314	C	C5-C6	5.80	1.39	1.34
1	N	969	A	N7-C5	-5.80	1.35	1.39
1	N	1031	C	C5'-C4'	5.80	1.58	1.51
1	N	1299	A	C5-C4	5.80	1.42	1.38
1	N	75	G	C5-C4	-5.79	1.34	1.38
1	N	273	U	C3'-O3'	5.79	1.50	1.42
1	N	457	G	C4'-C3'	-5.79	1.46	1.52
1	N	681	A	N7-C5	-5.79	1.35	1.39
1	N	703	G	C8-N7	5.79	1.34	1.30
1	N	1389	C	C4-C5	5.79	1.47	1.43
1	N	1394	A	C6-N1	5.79	1.39	1.35
1	N	1479	C	C5-C6	-5.79	1.29	1.34
1	N	6	G	N9-C8	5.79	1.42	1.37
1	N	312	C	P-O5'	-5.79	1.53	1.59
1	N	348	G	O3'-P	-5.79	1.54	1.61
1	N	524	G	C6-N1	5.79	1.43	1.39
1	N	562	U	N1-C6	-5.79	1.32	1.38
1	N	636	U	C3'-O3'	5.79	1.50	1.42
1	N	921	U	N3-C4	5.79	1.43	1.38
1	N	1341	U	C3'-C2'	-5.79	1.46	1.52
1	N	208	U	C4'-C3'	5.79	1.59	1.53
1	N	755	G	C4'-C3'	5.79	1.59	1.53
1	N	1340	A	C2'-C1'	-5.79	1.47	1.53
1	N	743	A	N3-C4	5.79	1.38	1.34
1	N	1271	A	N9-C4	-5.79	1.34	1.37
1	N	1288	A	N9-C8	5.79	1.42	1.37
1	N	171	A	N3-C4	-5.79	1.31	1.34
1	N	351	G	C5-C6	-5.79	1.36	1.42
1	N	720	C	C1'-N1	5.79	1.57	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	767	A	P-O5'	-5.79	1.53	1.59
1	N	1530	G	O3'-P	-5.79	1.54	1.61
1	N	199	A	C4'-C3'	5.78	1.59	1.53
1	N	1030	U	P-O5'	-5.78	1.53	1.59
1	N	1244	G	C5-C4	-5.78	1.34	1.38
1	N	1295	U	C4-C5	5.78	1.48	1.43
1	N	1430	A	C6-N6	5.78	1.38	1.33
1	N	1181	G	N7-C5	-5.78	1.35	1.39
1	N	1266	G	C3'-C2'	-5.78	1.46	1.52
1	N	1307	U	N3-C4	5.78	1.43	1.38
1	N	635	A	O3'-P	-5.78	1.54	1.61
1	N	871	U	C2-N3	5.78	1.41	1.37
1	N	995	C	O3'-P	-5.78	1.54	1.61
1	N	1254	A	N3-C4	-5.78	1.31	1.34
1	N	293	G	C2-N2	5.78	1.40	1.34
1	N	779	C	N3-C4	5.78	1.38	1.33
1	N	1220	G	N1-C2	-5.78	1.33	1.37
1	N	1326	U	C4-C5	-5.78	1.38	1.43
1	N	609	A	C4'-C3'	5.78	1.59	1.53
1	N	728	A	O3'-P	-5.78	1.54	1.61
1	N	1214	C	N3-C4	5.78	1.38	1.33
1	N	78	A	N9-C4	5.78	1.41	1.37
1	N	210	C	C1'-N1	5.78	1.57	1.48
1	N	702	A	C4'-O4'	5.78	1.53	1.45
1	N	845	A	C6-N6	5.78	1.38	1.33
1	N	904	U	C1'-N1	5.78	1.57	1.48
1	N	940	C	N3-C4	5.78	1.38	1.33
1	N	1276	G	P-O5'	-5.78	1.53	1.59
1	N	538	G	O4'-C1'	5.77	1.49	1.41
1	N	725	G	C2-N3	-5.77	1.28	1.32
1	N	870	U	C2'-C1'	5.77	1.59	1.53
1	N	143	A	C3'-O3'	5.77	1.50	1.42
1	N	470	C	N1-C2	5.77	1.46	1.40
1	N	978	A	N9-C8	5.77	1.42	1.37
1	N	1167	A	P-O5'	-5.77	1.53	1.59
1	N	1168	U	C3'-C2'	5.77	1.59	1.52
1	N	607	A	C2-N3	5.77	1.38	1.33
1	N	97	G	N3-C4	5.77	1.39	1.35
1	N	543	U	C2-N3	5.77	1.41	1.37
1	N	633	G	O3'-P	5.77	1.68	1.61
1	N	692	U	C4'-O4'	5.77	1.53	1.45
1	N	1064	G	C3'-O3'	5.77	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1130	A	C5-C4	5.77	1.42	1.38
1	N	1363	A	C5'-C4'	5.77	1.58	1.51
1	N	760	G	N9-C4	-5.77	1.33	1.38
1	N	1153	G	C2'-C1'	-5.77	1.47	1.53
1	N	1377	A	O3'-P	-5.77	1.54	1.61
1	N	1043	G	C6-N1	5.76	1.43	1.39
1	N	1339	A	C5-C6	-5.76	1.35	1.41
1	N	1414	U	C2-N3	5.76	1.41	1.37
1	N	1447	A	N9-C8	5.76	1.42	1.37
1	N	1476	A	C5-C4	5.76	1.42	1.38
1	N	351	G	C6-N1	5.76	1.43	1.39
1	N	883	C	C4-C5	5.76	1.47	1.43
1	N	677	U	C5'-C4'	5.76	1.58	1.51
1	N	700	G	C5-C6	-5.76	1.36	1.42
1	N	989	U	O4'-C1'	5.76	1.49	1.41
1	N	1067	A	C6-N6	5.76	1.38	1.33
1	N	1088	G	C2-N2	5.76	1.40	1.34
1	N	593	U	C5'-C4'	5.76	1.58	1.51
1	N	1242	G	N9-C8	-5.76	1.33	1.37
1	N	1365	G	C2'-C1'	-5.76	1.47	1.53
1	N	838	G	C8-N7	5.76	1.34	1.30
1	N	348	G	N3-C4	-5.76	1.31	1.35
1	N	56	U	C2-N3	5.75	1.41	1.37
1	N	591	U	N1-C2	5.75	1.43	1.38
1	N	1096	C	C2-N3	5.75	1.40	1.35
1	N	1132	C	C4'-C3'	5.75	1.59	1.53
1	N	1174	G	C2-N3	5.75	1.37	1.32
1	N	220	G	C2'-C1'	-5.75	1.47	1.53
1	N	651	C	N3-C4	5.75	1.38	1.33
1	N	1150	A	N9-C8	-5.75	1.33	1.37
1	N	413	G	C4'-O4'	-5.75	1.38	1.45
1	N	465	A	N9-C4	5.75	1.41	1.37
1	N	1031	C	C3'-O3'	5.75	1.50	1.42
1	N	1259	C	N1-C6	-5.75	1.33	1.37
1	N	1297	G	P-O5'	-5.75	1.53	1.59
1	N	853	C	C4'-C3'	5.75	1.59	1.53
1	N	1194	U	N3-C4	5.75	1.43	1.38
1	N	87	C	C4-C5	-5.75	1.38	1.43
1	N	350	G	C3'-O3'	5.75	1.50	1.42
1	N	772	U	C2-N3	5.75	1.41	1.37
1	N	900	A	C4'-C3'	5.75	1.59	1.53
1	N	960	U	C3'-O3'	5.75	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1085	U	C2-N3	5.75	1.41	1.37
1	N	1171	A	C2-N3	5.75	1.38	1.33
1	N	193	C	C4'-C3'	-5.75	1.46	1.52
1	N	988	G	C2-N3	5.75	1.37	1.32
1	N	305	G	O4'-C1'	-5.74	1.34	1.41
1	N	403	C	N1-C6	5.74	1.40	1.37
1	N	642	A	O4'-C1'	5.74	1.49	1.41
1	N	1499	A	N9-C4	5.74	1.41	1.37
1	N	1251	A	O3'-P	-5.74	1.54	1.61
1	N	1398	A	C5-C4	5.74	1.42	1.38
1	N	638	U	N3-C4	5.74	1.43	1.38
1	N	967	C	N1-C6	5.74	1.40	1.37
1	N	1339	A	P-O5'	-5.74	1.54	1.59
1	N	360	G	N3-C4	5.74	1.39	1.35
1	N	470	C	N1-C6	5.74	1.40	1.37
1	N	1077	G	N9-C8	5.74	1.41	1.37
1	N	1292	G	N7-C5	-5.74	1.35	1.39
1	N	1388	C	N3-C4	5.74	1.38	1.33
1	N	581	G	C8-N7	-5.74	1.27	1.30
1	N	108	G	C2-N2	5.74	1.40	1.34
1	N	301	G	C3'-C2'	-5.74	1.46	1.52
1	N	790	A	O4'-C1'	-5.74	1.34	1.41
1	N	857	C	C3'-C2'	-5.74	1.46	1.52
1	N	982	U	C4'-C3'	5.74	1.59	1.53
1	N	1127	G	N9-C4	-5.74	1.33	1.38
1	N	1515	G	N9-C8	5.74	1.41	1.37
1	N	397	A	O3'-P	-5.73	1.54	1.61
1	N	595	A	C8-N7	-5.73	1.27	1.31
1	N	647	C	C2'-O2'	-5.73	1.34	1.41
1	N	187	G	N9-C4	-5.73	1.33	1.38
1	N	373	A	N7-C5	-5.73	1.35	1.39
1	N	634	C	C5'-C4'	5.73	1.58	1.51
1	N	1381	U	C5'-C4'	5.73	1.58	1.51
1	N	670	G	C8-N7	-5.73	1.27	1.30
1	N	264	C	N1-C6	5.73	1.40	1.37
1	N	1221	G	C5'-C4'	5.73	1.58	1.51
1	N	1113	C	C2'-O2'	5.73	1.49	1.41
1	N	1126	U	C4-O4	-5.73	1.19	1.23
1	N	118	U	C2'-C1'	5.72	1.59	1.53
1	N	1266	G	N7-C5	-5.72	1.35	1.39
1	N	515	G	N7-C5	-5.72	1.35	1.39
1	N	816	A	N7-C5	-5.72	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1130	A	C2'-C1'	-5.72	1.47	1.53
1	N	100	G	C3'-C2'	5.72	1.59	1.52
1	N	94	G	N3-C4	5.72	1.39	1.35
1	N	131	A	C6-N6	5.72	1.38	1.33
1	N	694	A	N9-C4	-5.72	1.34	1.37
1	N	161	A	N9-C8	-5.72	1.33	1.37
1	N	305	G	C3'-C2'	5.72	1.59	1.52
1	N	762	U	N3-C4	5.72	1.43	1.38
1	N	41	G	C3'-O3'	5.71	1.50	1.42
1	N	493	A	P-O5'	-5.71	1.54	1.59
1	N	1303	C	N3-C4	5.71	1.38	1.33
1	N	21	G	P-O5'	-5.71	1.54	1.59
1	N	173	U	C3'-O3'	5.71	1.50	1.42
1	N	517	G	N3-C4	5.71	1.39	1.35
1	N	881	G	C2-N3	5.71	1.37	1.32
1	N	901	A	C5-C4	-5.71	1.34	1.38
1	N	1348	U	O3'-P	-5.71	1.54	1.61
1	N	7	A	N1-C2	5.71	1.39	1.34
1	N	767	A	C5'-C4'	5.71	1.58	1.51
1	N	4	U	C4'-C3'	-5.71	1.46	1.52
1	N	137	U	C5'-C4'	5.71	1.58	1.51
1	N	665	A	P-O5'	-5.71	1.54	1.59
1	N	791	G	C5'-C4'	5.71	1.58	1.51
1	N	896	C	P-O5'	-5.71	1.54	1.59
1	N	1175	G	O3'-P	5.71	1.68	1.61
1	N	31	G	N3-C4	5.71	1.39	1.35
1	N	42	G	C2-N2	5.71	1.40	1.34
1	N	506	G	N9-C4	-5.71	1.33	1.38
1	N	906	A	N3-C4	-5.71	1.31	1.34
1	N	911	U	C4-C5	5.71	1.48	1.43
1	N	1305	G	C2'-C1'	-5.71	1.47	1.53
1	N	1370	G	C5-C4	5.71	1.42	1.38
1	N	104	G	N9-C4	5.71	1.42	1.38
1	N	322	C	C4-C5	5.71	1.47	1.43
1	N	158	G	N9-C8	5.70	1.41	1.37
1	N	814	A	C6-N6	5.70	1.38	1.33
1	N	1488	G	C4'-C3'	5.70	1.59	1.53
1	N	341	C	C4-N4	5.70	1.39	1.33
1	N	16	A	C8-N7	-5.70	1.27	1.31
1	N	251	G	C6-O6	-5.70	1.19	1.24
1	N	306	A	C6-N1	5.70	1.39	1.35
1	N	662	U	C3'-C2'	-5.70	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	901	A	C6-N1	5.70	1.39	1.35
1	N	712	A	C6-N1	5.70	1.39	1.35
1	N	712	A	N9-C4	-5.70	1.34	1.37
1	N	1520	C	C5-C6	-5.70	1.29	1.34
1	N	109	A	O4'-C1'	5.70	1.49	1.41
1	N	128	G	C6-N1	5.70	1.43	1.39
1	N	129	A	C6-N1	5.70	1.39	1.35
1	N	128	G	C2'-C1'	-5.70	1.47	1.53
1	N	712	A	C2'-C1'	-5.70	1.47	1.53
1	N	992	U	N3-C4	5.70	1.43	1.38
1	N	1498	U	N1-C2	5.70	1.43	1.38
1	N	4	U	C2-N3	5.69	1.41	1.37
1	N	1025	U	N1-C2	-5.69	1.33	1.38
1	N	1185	G	N9-C4	-5.69	1.33	1.38
1	N	527	G	C2'-O2'	-5.69	1.34	1.41
1	N	86	G	C8-N7	5.69	1.34	1.30
1	N	133	U	N1-C6	-5.69	1.32	1.38
1	N	188	C	C2'-C1'	-5.69	1.47	1.53
1	N	566	G	C4'-C3'	5.69	1.59	1.53
1	N	1133	G	C2-N3	-5.69	1.28	1.32
1	N	149	A	C3'-O3'	5.69	1.50	1.42
1	N	938	A	O4'-C1'	5.69	1.49	1.41
1	N	222	C	C2'-C1'	-5.69	1.47	1.53
1	N	309	A	P-O5'	-5.69	1.54	1.59
1	N	661	G	C5'-C4'	5.69	1.58	1.51
1	N	1239	A	N9-C8	-5.69	1.33	1.37
1	N	1332	A	N3-C4	-5.69	1.31	1.34
1	N	162	A	C1'-N9	-5.69	1.38	1.46
1	N	998	C	C4-N4	5.69	1.39	1.33
1	N	144	G	C4'-C3'	5.68	1.59	1.53
1	N	359	G	C8-N7	-5.68	1.27	1.30
1	N	427	U	N1-C2	-5.68	1.33	1.38
1	N	554	A	N3-C4	5.68	1.38	1.34
1	N	655	A	C2'-C1'	-5.68	1.47	1.53
1	N	862	C	C4-N4	5.68	1.39	1.33
1	N	198	G	O3'-P	5.68	1.68	1.61
1	N	357	G	C5'-C4'	5.68	1.58	1.51
1	N	723	U	C3'-C2'	5.68	1.59	1.52
1	N	770	C	N3-C4	-5.68	1.29	1.33
1	N	93	U	P-O5'	-5.68	1.54	1.59
1	N	448	A	C5-C6	5.68	1.46	1.41
1	N	1171	A	C1'-N9	5.68	1.57	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	382	A	C5'-C4'	5.68	1.58	1.51
1	N	721	G	C2-N3	5.68	1.37	1.32
1	N	80	A	C2-N3	5.68	1.38	1.33
1	N	1240	U	C5-C6	5.68	1.39	1.34
1	N	181	A	C2'-C1'	-5.68	1.47	1.53
1	N	302	G	C5'-C4'	5.68	1.58	1.51
1	N	342	C	C4-N4	5.68	1.39	1.33
1	N	802	A	C6-N6	5.68	1.38	1.33
1	N	894	G	N1-C2	5.68	1.42	1.37
1	N	231	U	C5-C6	5.67	1.39	1.34
1	N	903	G	C6-O6	-5.67	1.19	1.24
1	N	243	A	C4'-C3'	5.67	1.59	1.53
1	N	776	G	C6-O6	-5.67	1.19	1.24
1	N	902	G	N7-C5	-5.67	1.35	1.39
1	N	1193	G	C5-C6	-5.67	1.36	1.42
1	N	9	G	N1-C2	5.67	1.42	1.37
1	N	86	G	C5-C4	5.67	1.42	1.38
1	N	275	G	P-O5'	-5.67	1.54	1.59
1	N	791	G	N9-C8	-5.67	1.33	1.37
1	N	212	G	C8-N7	-5.67	1.27	1.30
1	N	337	G	N9-C8	5.67	1.41	1.37
1	N	381	C	N1-C2	-5.67	1.34	1.40
1	N	427	U	C2-N3	5.67	1.41	1.37
1	N	1118	U	C2'-C1'	-5.67	1.47	1.53
1	N	1161	C	C3'-O3'	5.67	1.50	1.42
1	N	682	G	N1-C2	5.67	1.42	1.37
1	N	375	U	O4'-C1'	5.66	1.49	1.41
1	N	501	C	C2-N3	5.66	1.40	1.35
1	N	317	U	N3-C4	5.66	1.43	1.38
1	N	971	G	C5'-C4'	5.66	1.58	1.51
1	N	1530	G	N3-C4	5.66	1.39	1.35
1	N	200	G	C1'-N9	5.66	1.57	1.48
1	N	274	A	C2-N3	-5.66	1.28	1.33
1	N	566	G	O3'-P	-5.66	1.54	1.61
1	N	1487	G	C5-C4	5.66	1.42	1.38
1	N	814	A	C8-N7	-5.66	1.27	1.31
1	N	1256	A	N7-C5	-5.66	1.35	1.39
1	N	1516	G	C4'-C3'	-5.66	1.46	1.52
1	N	606	G	N3-C4	-5.66	1.31	1.35
1	N	740	U	N1-C6	5.66	1.43	1.38
1	N	81	A	N9-C8	-5.66	1.33	1.37
1	N	846	G	C8-N7	5.66	1.34	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1091	U	N1-C2	5.66	1.43	1.38
1	N	1523	G	C2'-C1'	-5.65	1.47	1.53
1	N	654	G	O3'-P	-5.65	1.54	1.61
1	N	692	U	C2-N3	5.65	1.41	1.37
1	N	885	G	C5-C6	-5.65	1.36	1.42
1	N	154	U	C5'-C4'	5.65	1.58	1.51
1	N	189	A	P-O5'	-5.65	1.54	1.59
1	N	649	A	O3'-P	-5.65	1.54	1.61
1	N	688	G	P-O5'	-5.65	1.54	1.59
1	N	973	G	C8-N7	-5.65	1.27	1.30
1	N	61	G	O4'-C1'	-5.65	1.34	1.41
1	N	1388	C	C2'-C1'	-5.65	1.47	1.53
1	N	100	G	C4'-O4'	5.65	1.52	1.45
1	N	1105	A	C5'-C4'	5.65	1.58	1.51
1	N	1380	U	C1'-N1	5.65	1.57	1.48
1	N	643	C	C4-C5	5.65	1.47	1.43
1	N	1326	U	C4'-C3'	-5.65	1.47	1.52
1	N	1483	A	C4'-O4'	5.65	1.52	1.45
1	N	226	G	C2-N2	5.64	1.40	1.34
1	N	1176	A	N7-C5	-5.64	1.35	1.39
1	N	675	A	C6-N6	5.64	1.38	1.33
1	N	759	A	N3-C4	5.64	1.38	1.34
1	N	813	U	C4'-C3'	-5.64	1.47	1.52
1	N	1389	C	P-O5'	5.64	1.65	1.59
1	N	536	C	N3-C4	5.64	1.37	1.33
1	N	432	A	N7-C5	-5.64	1.35	1.39
1	N	538	G	C2'-C1'	-5.64	1.47	1.53
1	N	1180	A	C6-N1	-5.64	1.31	1.35
1	N	885	G	C5-C4	5.64	1.42	1.38
1	N	895	G	N9-C8	5.64	1.41	1.37
1	N	1159	U	C2'-C1'	-5.64	1.47	1.53
1	N	1165	U	C3'-C2'	-5.64	1.46	1.52
1	N	1299	A	N9-C8	5.64	1.42	1.37
1	N	1432	G	C6-N1	5.64	1.43	1.39
1	N	715	A	C1'-N9	-5.63	1.39	1.46
1	N	1377	A	C5-C4	5.63	1.42	1.38
1	N	523	A	C2'-C1'	-5.63	1.47	1.53
1	N	569	C	C3'-C2'	5.63	1.59	1.52
1	N	922	G	N7-C5	5.63	1.42	1.39
1	N	473	U	O4'-C1'	5.63	1.49	1.41
1	N	610	U	N1-C2	5.63	1.43	1.38
1	N	693	G	N3-C4	-5.63	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	925	G	N9-C4	-5.63	1.33	1.38
1	N	1059	C	C1'-N1	5.63	1.57	1.48
1	N	1135	U	C3'-C2'	5.63	1.59	1.52
1	N	318	G	N1-C2	5.62	1.42	1.37
1	N	614	C	O3'-P	-5.62	1.54	1.61
1	N	237	G	N9-C4	-5.62	1.33	1.38
1	N	441	A	N1-C2	-5.62	1.29	1.34
1	N	1039	G	C2-N3	5.62	1.37	1.32
1	N	215	C	O4'-C1'	5.62	1.49	1.41
1	N	285	C	N1-C2	5.62	1.45	1.40
1	N	328	C	O3'-P	-5.62	1.54	1.61
1	N	718	A	C5'-C4'	5.62	1.58	1.51
1	N	1115	U	N1-C6	5.62	1.43	1.38
1	N	1166	G	C2-N2	5.62	1.40	1.34
1	N	1187	G	C5'-C4'	5.62	1.58	1.51
1	N	1530	G	C4'-C3'	5.62	1.59	1.53
1	N	268	U	N3-C4	5.62	1.43	1.38
1	N	337	G	N1-C2	5.62	1.42	1.37
1	N	1003	G	C6-N1	5.62	1.43	1.39
1	N	213	G	C5'-C4'	5.62	1.58	1.51
1	N	713	G	C3'-C2'	5.62	1.59	1.52
1	N	983	A	N9-C4	5.62	1.41	1.37
1	N	1107	C	C4-C5	-5.62	1.38	1.43
1	N	1154	G	C2-N3	5.62	1.37	1.32
1	N	1198	G	C6-N1	5.62	1.43	1.39
1	N	1309	G	C5-C4	5.62	1.42	1.38
1	N	447	G	C6-N1	5.62	1.43	1.39
1	N	698	G	C2-N2	5.62	1.40	1.34
1	N	945	G	N1-C2	5.62	1.42	1.37
1	N	1470	U	C2-N3	5.62	1.41	1.37
1	N	568	G	N9-C4	5.62	1.42	1.38
1	N	354	G	C2-N2	5.61	1.40	1.34
1	N	298	A	C4'-C3'	-5.61	1.47	1.52
1	N	574	A	C5'-C4'	5.61	1.58	1.51
1	N	869	G	C5'-C4'	5.61	1.58	1.51
1	N	1324	A	C4'-C3'	5.61	1.59	1.53
1	N	1374	A	C4'-C3'	5.61	1.59	1.53
1	N	9	G	C3'-O3'	5.61	1.50	1.42
1	N	947	G	N1-C2	5.61	1.42	1.37
1	N	867	G	N9-C8	5.61	1.41	1.37
1	N	903	G	C2-N3	5.61	1.37	1.32
1	N	889	A	N9-C8	5.60	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1201	A	O3'-P	-5.60	1.54	1.61
1	N	1226	C	N1-C2	-5.60	1.34	1.40
1	N	230	G	C1'-N9	-5.60	1.39	1.46
1	N	233	C	C4-C5	-5.60	1.38	1.43
1	N	673	A	P-O5'	5.60	1.65	1.59
1	N	915	A	P-O5'	5.60	1.65	1.59
1	N	915	A	C6-N1	5.60	1.39	1.35
1	N	998	C	N3-C4	5.60	1.37	1.33
1	N	611	C	C5'-C4'	5.59	1.58	1.51
1	N	165	G	C6-O6	5.59	1.29	1.24
1	N	665	A	C6-N6	5.59	1.38	1.33
1	N	1379	G	N9-C4	-5.59	1.33	1.38
1	N	140	U	O3'-P	-5.59	1.54	1.61
1	N	281	G	C2-N2	5.59	1.40	1.34
1	N	756	C	C3'-C2'	5.59	1.59	1.52
1	N	1105	A	C4'-O4'	-5.59	1.38	1.45
1	N	1223	C	C2-N3	-5.59	1.31	1.35
1	N	57	G	N9-C8	5.58	1.41	1.37
1	N	163	C	C5-C6	-5.58	1.29	1.34
1	N	266	G	C5-C4	-5.58	1.34	1.38
1	N	1261	A	O3'-P	-5.58	1.54	1.61
1	N	1489	G	O4'-C1'	5.58	1.49	1.41
1	N	209	U	N1-C6	5.58	1.43	1.38
1	N	302	G	O4'-C1'	-5.58	1.34	1.41
1	N	602	A	N7-C5	-5.58	1.35	1.39
1	N	1069	C	N1-C2	-5.58	1.34	1.40
1	N	1137	C	C2-N3	5.58	1.40	1.35
1	N	1247	U	N3-C4	5.58	1.43	1.38
1	N	205	A	C6-N1	5.58	1.39	1.35
1	N	275	G	C5-C6	5.58	1.48	1.42
1	N	803	G	C5-C4	5.58	1.42	1.38
1	N	807	A	P-O5'	-5.58	1.54	1.59
1	N	811	C	O5'-C5'	5.58	1.53	1.44
1	N	1004	A	N9-C8	-5.58	1.33	1.37
1	N	40	C	O3'-P	-5.58	1.54	1.61
1	N	329	A	C5-C6	5.58	1.46	1.41
1	N	687	A	N7-C5	5.58	1.42	1.39
1	N	1487	G	C4'-C3'	5.58	1.59	1.53
1	N	858	G	N9-C8	-5.58	1.33	1.37
1	N	1428	A	C5-C4	5.58	1.42	1.38
1	N	31	G	C8-N7	5.58	1.34	1.30
1	N	510	A	C5-C6	5.58	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	570	G	C5'-C4'	5.58	1.58	1.51
1	N	667	G	C2-N3	5.58	1.37	1.32
1	N	1373	G	C2'-C1'	-5.58	1.47	1.53
1	N	258	G	P-O5'	-5.57	1.54	1.59
1	N	516	U	C4-C5	-5.57	1.38	1.43
1	N	1192	C	C2-N3	5.57	1.40	1.35
1	N	486	U	C2'-C1'	-5.57	1.47	1.53
1	N	82	G	C6-O6	5.57	1.29	1.24
1	N	165	G	C4'-C3'	-5.57	1.47	1.52
1	N	262	A	N7-C5	-5.57	1.35	1.39
1	N	520	A	C6-N6	5.57	1.38	1.33
1	N	532	A	C8-N7	-5.57	1.27	1.31
1	N	1118	U	C2-N3	5.57	1.41	1.37
1	N	1236	A	N7-C5	-5.57	1.35	1.39
1	N	1510	C	C2-N3	5.57	1.40	1.35
1	N	1522	U	C1'-N1	5.57	1.57	1.48
1	N	388	G	C2'-C1'	-5.57	1.47	1.53
1	N	843	U	O3'-P	5.57	1.67	1.61
1	N	1528	U	C4'-O4'	-5.57	1.38	1.45
1	N	579	A	N3-C4	5.56	1.38	1.34
1	N	139	A	N9-C4	-5.56	1.34	1.37
1	N	756	C	C2-N3	5.56	1.40	1.35
1	N	1519	A	N7-C5	-5.56	1.35	1.39
1	N	866	C	C4-C5	-5.56	1.38	1.43
1	N	368	U	C4-C5	5.56	1.48	1.43
1	N	400	C	C2-O2	-5.56	1.19	1.24
1	N	406	G	N1-C2	5.56	1.42	1.37
1	N	554	A	N9-C8	5.56	1.42	1.37
1	N	703	G	O3'-P	-5.56	1.54	1.61
1	N	1107	C	P-O5'	5.56	1.65	1.59
1	N	325	A	C6-N1	5.56	1.39	1.35
1	N	353	A	C4'-C3'	5.56	1.59	1.53
1	N	694	A	C5-C4	5.56	1.42	1.38
1	N	886	G	O4'-C1'	5.56	1.48	1.41
1	N	1360	A	C4'-C3'	5.56	1.59	1.53
1	N	412	A	C6-N1	5.56	1.39	1.35
1	N	1049	U	C2-N3	5.56	1.41	1.37
1	N	1309	G	C2'-C1'	-5.56	1.47	1.53
1	N	319	G	C2'-C1'	-5.55	1.47	1.53
1	N	725	G	N3-C4	5.55	1.39	1.35
1	N	853	C	P-O5'	5.55	1.65	1.59
1	N	1108	G	C2'-C1'	5.55	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1480	A	C5-C4	5.55	1.42	1.38
1	N	203	G	N9-C8	-5.55	1.33	1.37
1	N	279	A	P-O5'	-5.55	1.54	1.59
1	N	604	G	C2-N3	5.55	1.37	1.32
1	N	873	A	N3-C4	-5.55	1.31	1.34
1	N	915	A	N9-C4	-5.55	1.34	1.37
1	N	1195	C	C5-C6	5.55	1.38	1.34
1	N	319	G	C3'-O3'	5.55	1.50	1.42
1	N	1170	A	C3'-C2'	5.55	1.59	1.52
1	N	397	A	C8-N7	-5.55	1.27	1.31
1	N	803	G	C2-N2	5.55	1.40	1.34
1	N	847	G	O3'-P	-5.55	1.54	1.61
1	N	921	U	O3'-P	-5.55	1.54	1.61
1	N	1234	C	C1'-N1	5.55	1.57	1.48
1	N	1088	G	N7-C5	5.54	1.42	1.39
1	N	1306	A	N7-C5	-5.54	1.35	1.39
1	N	1387	G	P-O5'	-5.54	1.54	1.59
1	N	1089	G	C5-C6	5.54	1.47	1.42
1	N	1221	G	C5-C6	-5.54	1.36	1.42
1	N	1406	U	C3'-O3'	5.54	1.50	1.42
1	N	1502	A	C2'-C1'	-5.54	1.47	1.53
1	N	39	G	C6-N1	5.54	1.43	1.39
1	N	193	C	C3'-C2'	-5.54	1.46	1.52
1	N	641	U	O4'-C1'	-5.54	1.34	1.41
1	N	890	G	C6-N1	5.54	1.43	1.39
1	N	511	C	C4'-O4'	-5.54	1.38	1.45
1	N	926	G	N3-C4	5.54	1.39	1.35
1	N	1504	G	N3-C4	-5.54	1.31	1.35
1	N	821	G	N1-C2	5.54	1.42	1.37
1	N	1325	C	N1-C2	-5.54	1.34	1.40
1	N	556	C	P-O5'	-5.54	1.54	1.59
1	N	457	G	C2-N3	5.53	1.37	1.32
1	N	1259	C	O4'-C1'	5.53	1.48	1.41
1	N	769	G	C5-C6	-5.53	1.36	1.42
1	N	1057	G	C8-N7	5.53	1.34	1.30
1	N	256	U	C4'-C3'	-5.53	1.47	1.52
1	N	381	C	C4-N4	5.53	1.39	1.33
1	N	466	A	N9-C8	5.53	1.42	1.37
1	N	631	C	C3'-C2'	5.53	1.59	1.52
1	N	1386	G	C6-N1	5.53	1.43	1.39
1	N	125	U	O3'-P	-5.53	1.54	1.61
1	N	79	G	N3-C4	5.53	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	416	G	C2-N2	5.53	1.40	1.34
1	N	1401	G	C5-C6	-5.53	1.36	1.42
1	N	171	A	C4'-C3'	5.53	1.59	1.53
1	N	713	G	N3-C4	5.53	1.39	1.35
1	N	1082	A	N9-C8	5.53	1.42	1.37
1	N	1146	A	C5'-C4'	5.53	1.57	1.51
1	N	196	A	C8-N7	-5.52	1.27	1.31
1	N	1244	G	N3-C4	-5.52	1.31	1.35
1	N	1324	A	N7-C5	-5.52	1.35	1.39
1	N	919	A	C8-N7	-5.52	1.27	1.31
1	N	1179	A	N1-C2	5.52	1.39	1.34
1	N	1417	G	C8-N7	-5.52	1.27	1.30
1	N	28	A	C3'-C2'	-5.52	1.46	1.52
1	N	727	G	N9-C4	5.52	1.42	1.38
1	N	1503	A	O4'-C1'	5.52	1.48	1.41
1	N	1046	A	P-O5'	5.52	1.65	1.59
1	N	1277	C	C4'-C3'	5.52	1.59	1.53
1	N	1387	G	C5-C4	5.52	1.42	1.38
1	N	40	C	C5-C6	5.51	1.38	1.34
1	N	1530	G	C6-N1	5.51	1.43	1.39
1	N	459	A	C5'-C4'	5.51	1.57	1.51
1	N	1086	U	C4'-C3'	5.51	1.59	1.53
1	N	512	U	N1-C2	5.51	1.43	1.38
1	N	1033	G	N3-C4	5.51	1.39	1.35
1	N	1150	A	C6-N6	5.51	1.38	1.33
1	N	1471	U	C4'-O4'	5.51	1.52	1.45
1	N	1489	G	C5'-C4'	5.51	1.57	1.51
1	N	124	C	C1'-N1	5.51	1.57	1.48
1	N	233	C	C5-C6	5.51	1.38	1.34
1	N	440	C	C4-N4	5.51	1.39	1.33
1	N	575	G	C4'-C3'	5.51	1.59	1.53
1	N	957	U	N3-C4	5.51	1.43	1.38
1	N	1000	A	O4'-C1'	5.51	1.48	1.41
1	N	1379	G	O4'-C1'	-5.51	1.34	1.41
1	N	768	A	C8-N7	-5.51	1.27	1.31
1	N	104	G	N9-C8	-5.51	1.33	1.37
1	N	481	G	C5-C6	-5.51	1.36	1.42
1	N	949	A	C3'-O3'	5.51	1.49	1.42
1	N	981	U	C4-C5	5.51	1.48	1.43
1	N	1082	A	C6-N1	5.51	1.39	1.35
1	N	825	A	N9-C4	5.50	1.41	1.37
1	N	1158	C	C2'-C1'	-5.50	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	809	G	O4'-C1'	-5.50	1.34	1.41
1	N	1450	U	C4'-C3'	-5.50	1.47	1.52
1	N	242	G	C2-N3	5.50	1.37	1.32
1	N	272	C	C3'-C2'	5.50	1.59	1.52
1	N	331	G	C4'-C3'	5.50	1.59	1.53
1	N	378	G	C2-N2	5.50	1.40	1.34
1	N	1290	G	C5'-C4'	5.50	1.57	1.51
1	N	84	U	N3-C4	5.50	1.43	1.38
1	N	457	G	C5-C4	-5.50	1.34	1.38
1	N	526	C	N1-C6	5.50	1.40	1.37
1	N	1360	A	N9-C4	5.50	1.41	1.37
1	N	360	G	N9-C4	5.50	1.42	1.38
1	N	370	C	C2-O2	5.50	1.29	1.24
1	N	794	A	C2'-C1'	-5.50	1.47	1.53
1	N	1496	C	C5'-C4'	5.50	1.57	1.51
1	N	284	C	C1'-N1	5.50	1.56	1.48
1	N	664	G	N3-C4	-5.50	1.31	1.35
1	N	1422	G	N7-C5	-5.50	1.35	1.39
1	N	724	G	N3-C4	5.50	1.39	1.35
1	N	1021	A	C5'-C4'	5.50	1.57	1.51
1	N	413	G	C3'-C2'	5.49	1.58	1.52
1	N	528	C	C5-C6	5.49	1.38	1.34
1	N	999	C	C1'-N1	5.49	1.56	1.48
1	N	1513	A	C3'-C2'	-5.49	1.46	1.52
1	N	96	U	C2'-O2'	-5.49	1.34	1.41
1	N	222	C	C4'-C3'	5.49	1.59	1.53
1	N	876	C	C1'-N1	5.49	1.56	1.48
1	N	340	U	P-O5'	-5.49	1.54	1.59
1	N	1013	G	C1'-N9	5.49	1.56	1.48
1	N	1109	C	N3-C4	5.49	1.37	1.33
1	N	1239	A	C3'-O3'	5.49	1.49	1.42
1	N	1364	U	C5'-C4'	5.49	1.57	1.51
1	N	122	G	C2-N2	5.49	1.40	1.34
1	N	128	G	N7-C5	-5.49	1.35	1.39
1	N	172	A	O3'-P	-5.49	1.54	1.61
1	N	182	A	C2'-C1'	-5.49	1.47	1.53
1	N	260	G	N1-C2	-5.49	1.33	1.37
1	N	640	A	O3'-P	5.49	1.67	1.61
1	N	939	G	N1-C2	5.49	1.42	1.37
1	N	1132	C	C4-N4	5.49	1.38	1.33
1	N	1245	C	P-O5'	-5.49	1.54	1.59
1	N	1054	C	O4'-C1'	-5.49	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	160	A	C5-C4	5.49	1.42	1.38
1	N	554	A	C5'-C4'	5.49	1.57	1.51
1	N	1097	C	P-O5'	-5.48	1.54	1.59
1	N	296	U	C3'-C2'	-5.48	1.46	1.52
1	N	977	A	N3-C4	-5.48	1.31	1.34
1	N	301	G	N9-C8	5.48	1.41	1.37
1	N	887	G	C2'-O2'	-5.48	1.34	1.41
1	N	384	G	O3'-P	5.48	1.67	1.61
1	N	678	U	C4-C5	5.48	1.48	1.43
1	N	769	G	N7-C5	-5.48	1.35	1.39
1	N	1076	U	N3-C4	5.48	1.43	1.38
1	N	1202	U	C2-N3	5.48	1.41	1.37
1	N	1249	C	C4-N4	5.48	1.38	1.33
1	N	262	A	N9-C4	-5.48	1.34	1.37
1	N	414	A	C8-N7	-5.48	1.27	1.31
1	N	711	G	N9-C8	-5.48	1.34	1.37
1	N	907	A	C4'-O4'	5.48	1.52	1.45
1	N	1290	G	N7-C5	-5.48	1.35	1.39
1	N	1387	G	C5'-C4'	5.48	1.57	1.51
1	N	1518	A	C8-N7	-5.48	1.27	1.31
1	N	195	A	C6-N6	5.48	1.38	1.33
1	N	79	G	C6-O6	-5.47	1.19	1.24
1	N	366	A	C2'-C1'	-5.47	1.47	1.53
1	N	471	U	N1-C2	5.47	1.43	1.38
1	N	800	G	N3-C4	5.47	1.39	1.35
1	N	1241	G	C8-N7	-5.47	1.27	1.30
1	N	41	G	N1-C2	5.47	1.42	1.37
1	N	942	G	N1-C2	5.47	1.42	1.37
1	N	672	U	C2-N3	5.47	1.41	1.37
1	N	1362	A	C3'-C2'	5.47	1.58	1.52
1	N	1422	G	C6-N1	5.47	1.43	1.39
1	N	503	C	C5'-C4'	5.47	1.57	1.51
1	N	679	C	C4-N4	5.47	1.38	1.33
1	N	160	A	N3-C4	5.47	1.38	1.34
1	N	157	U	C4-O4	-5.47	1.19	1.23
1	N	201	G	C5-C4	5.47	1.42	1.38
1	N	502	A	C6-N6	-5.47	1.29	1.33
1	N	844	G	N9-C4	5.47	1.42	1.38
1	N	1164	G	C8-N7	5.47	1.34	1.30
1	N	209	U	C4-C5	5.46	1.48	1.43
1	N	414	A	N3-C4	5.46	1.38	1.34
1	N	1345	U	N3-C4	5.46	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	47	C	O3'-P	-5.46	1.54	1.61
1	N	142	G	C8-N7	-5.46	1.27	1.30
1	N	240	G	O4'-C1'	5.46	1.48	1.41
1	N	255	G	O3'-P	-5.46	1.54	1.61
1	N	306	A	C8-N7	-5.46	1.27	1.31
1	N	969	A	N9-C4	-5.46	1.34	1.37
1	N	1441	A	C6-N6	5.46	1.38	1.33
1	N	295	C	C1'-N1	5.46	1.56	1.48
1	N	962	C	C4-N4	5.46	1.38	1.33
1	N	1025	U	C2'-C1'	-5.46	1.47	1.53
1	N	125	U	C2'-C1'	-5.46	1.47	1.53
1	N	665	A	C5-C6	5.46	1.46	1.41
1	N	275	G	N9-C8	5.46	1.41	1.37
1	N	278	G	N1-C2	5.46	1.42	1.37
1	N	374	A	C4'-O4'	5.46	1.52	1.45
1	N	654	G	C2-N2	5.46	1.40	1.34
1	N	933	G	N9-C4	-5.46	1.33	1.38
1	N	1003	G	C5'-C4'	5.46	1.57	1.51
1	N	1090	U	N1-C2	-5.46	1.33	1.38
1	N	1483	A	C6-N6	5.46	1.38	1.33
1	N	1198	G	C2-N2	5.46	1.40	1.34
1	N	324	G	C2'-C1'	-5.45	1.47	1.53
1	N	404	G	P-O5'	-5.45	1.54	1.59
1	N	783	C	C4-C5	5.45	1.47	1.43
1	N	1104	G	C6-O6	-5.45	1.19	1.24
1	N	192	A	C5-C6	-5.45	1.36	1.41
1	N	201	G	N7-C5	-5.45	1.35	1.39
1	N	724	G	N7-C5	-5.45	1.35	1.39
1	N	747	A	C6-N6	5.45	1.38	1.33
1	N	815	A	P-O5'	-5.45	1.54	1.59
1	N	1139	G	C6-N1	5.45	1.43	1.39
1	N	222	C	C2-N3	5.45	1.40	1.35
1	N	1190	G	C2-N3	5.45	1.37	1.32
1	N	1196	A	C3'-O3'	5.45	1.49	1.42
1	N	1501	C	N1-C6	-5.45	1.33	1.37
1	N	366	A	N9-C8	-5.45	1.33	1.37
1	N	974	A	C2-N3	5.45	1.38	1.33
1	N	1278	G	O3'-P	-5.45	1.54	1.61
1	N	1477	U	O3'-P	-5.45	1.54	1.61
1	N	758	C	C4-C5	5.45	1.47	1.43
1	N	1070	U	N3-C4	5.45	1.43	1.38
1	N	140	U	C1'-N1	5.45	1.56	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	787	A	C6-N6	5.45	1.38	1.33
1	N	1079	G	N3-C4	-5.45	1.31	1.35
1	N	1475	G	N7-C5	5.45	1.42	1.39
1	N	744	C	C4-C5	-5.44	1.38	1.43
1	N	102	G	C5'-C4'	5.44	1.57	1.51
1	N	292	G	N9-C8	5.44	1.41	1.37
1	N	637	C	O3'-P	-5.44	1.54	1.61
1	N	641	U	P-O5'	-5.44	1.54	1.59
1	N	459	A	C5-C4	5.44	1.42	1.38
1	N	713	G	C2'-C1'	-5.44	1.47	1.53
1	N	797	C	C5'-C4'	5.44	1.57	1.51
1	N	1392	G	C2'-C1'	-5.44	1.47	1.53
1	N	1515	G	P-O5'	-5.44	1.54	1.59
1	N	1532	U	C2-N3	5.44	1.41	1.37
1	N	205	A	C2-N3	5.44	1.38	1.33
1	N	1171	A	N9-C4	5.44	1.41	1.37
1	N	431	A	C2'-C1'	-5.44	1.47	1.53
1	N	755	G	C2-N2	5.44	1.40	1.34
1	N	88	U	N3-C4	5.44	1.43	1.38
1	N	135	C	C5'-C4'	5.44	1.57	1.51
1	N	223	A	N9-C8	-5.44	1.33	1.37
1	N	961	U	C1'-N1	5.44	1.56	1.48
1	N	71	A	O3'-P	-5.43	1.54	1.61
1	N	192	A	C8-N7	5.43	1.35	1.31
1	N	335	C	C2-N3	5.43	1.40	1.35
1	N	1418	A	C5-C4	-5.43	1.34	1.38
1	N	124	C	C2-N3	5.43	1.40	1.35
1	N	1248	A	C5'-C4'	5.43	1.57	1.51
1	N	1386	G	C5'-C4'	5.43	1.57	1.51
1	N	278	G	O3'-P	-5.43	1.54	1.61
1	N	978	A	C6-N6	5.43	1.38	1.33
1	N	1447	A	C5-C4	5.43	1.42	1.38
1	N	338	A	C6-N6	5.43	1.38	1.33
1	N	347	G	N1-C2	5.43	1.42	1.37
1	N	427	U	C5-C6	5.43	1.39	1.34
1	N	578	C	C5-C6	5.43	1.38	1.34
1	N	876	C	N3-C4	5.43	1.37	1.33
1	N	1090	U	C3'-C2'	5.43	1.58	1.52
1	N	1209	C	P-O5'	-5.43	1.54	1.59
1	N	1322	C	C4'-O4'	5.43	1.52	1.45
1	N	222	C	C4-N4	5.43	1.38	1.33
1	N	240	G	C2'-C1'	-5.43	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	848	C	N1-C6	5.43	1.40	1.37
1	N	983	A	C3'-O3'	5.43	1.49	1.42
1	N	1243	C	P-O5'	-5.43	1.54	1.59
1	N	149	A	C4'-C3'	5.43	1.59	1.53
1	N	208	U	C1'-N1	5.43	1.56	1.48
1	N	375	U	C5'-C4'	5.43	1.57	1.51
1	N	664	G	C5'-C4'	5.43	1.57	1.51
1	N	1154	G	N1-C2	5.43	1.42	1.37
1	N	145	G	C5-C6	-5.42	1.36	1.42
1	N	656	G	C5-C4	-5.42	1.34	1.38
1	N	1168	U	N1-C2	-5.42	1.33	1.38
1	N	1409	C	O4'-C1'	5.42	1.48	1.41
1	N	9	G	N3-C4	5.42	1.39	1.35
1	N	400	C	C5'-C4'	5.42	1.57	1.51
1	N	480	U	C3'-O3'	-5.42	1.34	1.42
1	N	688	G	C5'-C4'	5.42	1.57	1.51
1	N	878	A	P-O5'	-5.42	1.54	1.59
1	N	1314	C	C4-C5	5.42	1.47	1.43
1	N	1414	U	O4'-C1'	5.42	1.48	1.41
1	N	1417	G	C2-N3	5.42	1.37	1.32
1	N	512	U	C4-C5	5.42	1.48	1.43
1	N	1331	G	P-O5'	-5.42	1.54	1.59
1	N	1359	C	N1-C2	5.42	1.45	1.40
1	N	1174	G	C2-N2	5.42	1.40	1.34
1	N	1192	C	N1-C2	5.42	1.45	1.40
1	N	1277	C	C2'-C1'	-5.42	1.47	1.53
1	N	450	G	C3'-C2'	5.42	1.58	1.52
1	N	1505	G	N9-C8	5.42	1.41	1.37
1	N	671	G	N3-C4	5.41	1.39	1.35
1	N	679	C	C4-C5	5.41	1.47	1.43
1	N	1110	A	O3'-P	-5.41	1.54	1.61
1	N	1484	C	C2'-C1'	-5.41	1.47	1.53
1	N	137	U	C4-O4	-5.41	1.19	1.23
1	N	922	G	C4'-C3'	5.41	1.59	1.53
1	N	198	G	C2'-C1'	-5.41	1.47	1.53
1	N	210	C	C4-N4	5.41	1.38	1.33
1	N	350	G	O3'-P	-5.41	1.54	1.61
1	N	1253	G	C2-N2	5.41	1.40	1.34
1	N	1453	G	P-O5'	-5.41	1.54	1.59
1	N	1496	C	N1-C6	5.41	1.40	1.37
1	N	115	G	C5-C6	-5.41	1.36	1.42
1	N	953	G	N3-C4	5.41	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1218	C	N1-C2	-5.41	1.34	1.40
1	N	645	G	C5-C6	-5.41	1.36	1.42
1	N	550	G	N9-C8	5.41	1.41	1.37
1	N	860	A	O3'-P	-5.41	1.54	1.61
1	N	939	G	C2-N2	5.41	1.40	1.34
1	N	455	G	C5-C4	5.40	1.42	1.38
1	N	1075	U	C4'-C3'	-5.40	1.47	1.52
1	N	1487	G	N7-C5	-5.40	1.36	1.39
1	N	294	U	C2-N3	5.40	1.41	1.37
1	N	448	A	C8-N7	-5.40	1.27	1.31
1	N	683	G	C5'-C4'	5.40	1.57	1.51
1	N	1258	G	C4'-C3'	5.40	1.59	1.53
1	N	1274	A	C2'-O2'	-5.40	1.34	1.41
1	N	104	G	O3'-P	-5.40	1.54	1.61
1	N	267	C	C4-C5	5.40	1.47	1.43
1	N	445	G	C5'-C4'	5.40	1.57	1.51
1	N	1181	G	C5'-C4'	-5.40	1.44	1.51
1	N	1384	C	C4-N4	5.40	1.38	1.33
1	N	30	U	C2-N3	5.40	1.41	1.37
1	N	95	C	N3-C4	5.40	1.37	1.33
1	N	443	C	C1'-N1	5.40	1.56	1.48
1	N	969	A	C2-N3	5.40	1.38	1.33
1	N	1030	U	C2-N3	5.40	1.41	1.37
1	N	1420	U	C5'-C4'	5.40	1.57	1.51
1	N	366	A	C3'-C2'	5.39	1.58	1.52
1	N	1300	G	O4'-C1'	-5.39	1.34	1.41
1	N	224	U	C4'-O4'	5.39	1.52	1.45
1	N	375	U	C2-N3	5.39	1.41	1.37
1	N	1078	U	C2-N3	-5.39	1.33	1.37
1	N	335	C	C4-C5	5.39	1.47	1.43
1	N	690	G	C5-C6	-5.39	1.36	1.42
1	N	113	G	C4'-O4'	-5.39	1.38	1.45
1	N	535	A	N9-C4	-5.39	1.34	1.37
1	N	1359	C	C5'-C4'	5.39	1.57	1.51
1	N	416	G	C3'-C2'	-5.39	1.46	1.52
1	N	524	G	N7-C5	-5.39	1.36	1.39
1	N	617	G	C5-C4	5.39	1.42	1.38
1	N	780	A	N7-C5	-5.38	1.36	1.39
1	N	803	G	C8-N7	-5.38	1.27	1.30
1	N	1106	G	O3'-P	5.38	1.67	1.61
1	N	14	U	C4-C5	-5.38	1.38	1.43
1	N	231	U	C2-O2	5.38	1.27	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	314	C	C2'-C1'	-5.38	1.47	1.53
1	N	1217	C	C3'-C2'	5.38	1.58	1.52
1	N	130	A	C4'-C3'	5.38	1.59	1.53
1	N	253	A	C5'-C4'	5.38	1.57	1.51
1	N	568	G	C2-N3	5.38	1.37	1.32
1	N	903	G	C6-N1	5.38	1.43	1.39
1	N	1139	G	C2-N2	5.38	1.40	1.34
1	N	1231	G	C5-C4	5.38	1.42	1.38
1	N	108	G	N9-C4	5.38	1.42	1.38
1	N	532	A	C2-N3	5.38	1.38	1.33
1	N	603	U	O4'-C1'	-5.38	1.34	1.41
1	N	1196	A	C4'-O4'	5.38	1.52	1.45
1	N	1255	G	C4'-C3'	5.38	1.59	1.53
1	N	387	U	C1'-N1	5.38	1.56	1.48
1	N	542	G	C6-O6	-5.38	1.19	1.24
1	N	857	C	N3-C4	5.38	1.37	1.33
1	N	961	U	C3'-C2'	5.38	1.58	1.52
1	N	1104	G	N1-C2	5.38	1.42	1.37
1	N	436	C	C4-C5	5.37	1.47	1.43
1	N	454	G	O3'-P	-5.37	1.54	1.61
1	N	776	G	C8-N7	5.37	1.34	1.30
1	N	853	C	C4-N4	5.37	1.38	1.33
1	N	1198	G	O3'-P	-5.37	1.54	1.61
1	N	85	U	N1-C2	5.37	1.43	1.38
1	N	279	A	C6-N1	-5.37	1.31	1.35
1	N	239	U	C4'-C3'	5.37	1.59	1.53
1	N	746	A	N1-C2	-5.37	1.29	1.34
1	N	529	G	C3'-O3'	5.37	1.49	1.42
1	N	867	G	N7-C5	-5.37	1.36	1.39
1	N	616	G	C5-C4	5.37	1.42	1.38
1	N	305	G	C6-N1	5.36	1.43	1.39
1	N	313	A	C2-N3	5.36	1.38	1.33
1	N	442	G	C5-C4	-5.36	1.34	1.38
1	N	897	C	C4-C5	5.36	1.47	1.43
1	N	981	U	C2'-C1'	-5.36	1.47	1.53
1	N	1114	C	C3'-O3'	5.36	1.49	1.42
1	N	67	C	P-O5'	-5.36	1.54	1.59
1	N	303	A	C4'-C3'	5.36	1.59	1.53
1	N	914	A	C2'-O2'	-5.36	1.34	1.41
1	N	1010	U	C2'-C1'	-5.36	1.47	1.53
1	N	1334	G	N9-C8	5.36	1.41	1.37
1	N	618	C	N1-C6	5.36	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	276	G	N7-C5	-5.36	1.36	1.39
1	N	400	C	N1-C6	5.36	1.40	1.37
1	N	840	C	C5-C6	-5.36	1.30	1.34
1	N	1516	G	C6-N1	5.36	1.43	1.39
1	N	708	C	C4-N4	5.36	1.38	1.33
1	N	814	A	C4'-C3'	-5.36	1.47	1.52
1	N	868	C	N1-C6	-5.36	1.33	1.37
1	N	1058	G	N9-C4	-5.36	1.33	1.38
1	N	1134	G	N9-C4	-5.36	1.33	1.38
1	N	1197	A	C6-N1	5.36	1.39	1.35
1	N	99	C	N1-C2	5.36	1.45	1.40
1	N	120	A	C6-N6	5.36	1.38	1.33
1	N	345	C	C4-N4	5.36	1.38	1.33
1	N	411	A	C4'-C3'	-5.36	1.47	1.52
1	N	549	C	C5'-C4'	5.36	1.57	1.51
1	N	993	G	N1-C2	5.36	1.42	1.37
1	N	1227	A	N9-C8	-5.35	1.33	1.37
1	N	933	G	N9-C8	-5.35	1.34	1.37
1	N	1258	G	O3'-P	-5.35	1.54	1.61
1	N	1274	A	C2-N3	5.35	1.38	1.33
1	N	1398	A	N3-C4	-5.35	1.31	1.34
1	N	1425	U	N1-C2	5.35	1.43	1.38
1	N	8	A	C4'-O4'	5.35	1.52	1.45
1	N	258	G	N9-C4	-5.35	1.33	1.38
1	N	956	U	C1'-N1	5.35	1.56	1.48
1	N	588	G	C5-C4	-5.35	1.34	1.38
1	N	1264	U	N3-C4	5.35	1.43	1.38
1	N	255	G	N7-C5	-5.35	1.36	1.39
1	N	446	G	C2-N2	5.35	1.39	1.34
1	N	916	U	C5-C6	-5.35	1.29	1.34
1	N	954	G	N3-C4	-5.35	1.31	1.35
1	N	974	A	C6-N6	5.35	1.38	1.33
1	N	1260	G	C4'-O4'	-5.35	1.38	1.45
1	N	1480	A	N3-C4	5.35	1.38	1.34
1	N	1492	A	N9-C4	5.35	1.41	1.37
1	N	388	G	N3-C4	5.35	1.39	1.35
1	N	548	G	P-O5'	-5.35	1.54	1.59
1	N	1301	U	C3'-O3'	5.35	1.49	1.42
1	N	1465	A	N9-C4	5.35	1.41	1.37
1	N	191	G	N1-C2	5.34	1.42	1.37
1	N	337	G	C4'-C3'	-5.34	1.47	1.52
1	N	428	G	N1-C2	5.34	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	521	G	C2-N3	5.34	1.37	1.32
1	N	674	G	N7-C5	-5.34	1.36	1.39
1	N	843	U	C1'-N1	5.34	1.56	1.48
1	N	1028	C	O4'-C1'	5.34	1.48	1.41
1	N	1043	G	C8-N7	-5.34	1.27	1.30
1	N	1152	A	C8-N7	5.34	1.35	1.31
1	N	452	A	C3'-O3'	5.34	1.49	1.42
1	N	1339	A	C2-N3	5.34	1.38	1.33
1	N	958	A	C4'-O4'	-5.34	1.38	1.45
1	N	991	U	C5-C6	5.34	1.39	1.34
1	N	1402	C	C4'-C3'	-5.34	1.47	1.52
1	N	100	G	N9-C8	5.34	1.41	1.37
1	N	723	U	C5'-C4'	5.34	1.57	1.51
1	N	83	C	C2-O2	-5.34	1.19	1.24
1	N	378	G	N9-C8	-5.34	1.34	1.37
1	N	843	U	C2'-C1'	-5.34	1.47	1.53
1	N	826	C	C2'-C1'	5.33	1.59	1.53
1	N	122	G	C5-C6	-5.33	1.37	1.42
1	N	430	A	O3'-P	-5.33	1.54	1.61
1	N	865	A	C6-N6	5.33	1.38	1.33
1	N	1178	G	C2-N2	5.33	1.39	1.34
1	N	1396	A	P-O5'	-5.33	1.54	1.59
1	N	7	A	C2'-C1'	-5.33	1.47	1.53
1	N	451	A	C5-C6	-5.33	1.36	1.41
1	N	760	G	P-O5'	-5.33	1.54	1.59
1	N	1261	A	C2-N3	5.33	1.38	1.33
1	N	1337	G	N3-C4	-5.33	1.31	1.35
1	N	1358	U	P-O5'	-5.33	1.54	1.59
1	N	1489	G	C5-C4	5.33	1.42	1.38
1	N	18	C	N1-C6	5.33	1.40	1.37
1	N	156	C	O3'-P	-5.33	1.54	1.61
1	N	285	C	N3-C4	5.33	1.37	1.33
1	N	440	C	N3-C4	5.33	1.37	1.33
1	N	468	A	C6-N1	5.33	1.39	1.35
1	N	34	C	C5-C6	5.33	1.38	1.34
1	N	632	U	C5'-C4'	5.33	1.57	1.51
1	N	636	U	C3'-C2'	-5.33	1.46	1.52
1	N	781	A	N9-C4	-5.33	1.34	1.37
1	N	1235	U	N3-C4	5.33	1.43	1.38
1	N	937	A	C8-N7	5.33	1.35	1.31
1	N	963	G	C5-C4	-5.33	1.34	1.38
1	N	428	G	C5'-C4'	5.33	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	550	G	C6-N1	5.33	1.43	1.39
1	N	595	A	N7-C5	-5.33	1.36	1.39
1	N	655	A	C5'-C4'	5.33	1.57	1.51
1	N	664	G	C5-C4	5.33	1.42	1.38
1	N	1090	U	N3-C4	5.33	1.43	1.38
1	N	938	A	C5'-C4'	5.32	1.57	1.51
1	N	499	A	C4'-C3'	5.32	1.59	1.53
1	N	1143	G	N9-C4	-5.32	1.33	1.38
1	N	470	C	N3-C4	5.32	1.37	1.33
1	N	1237	C	C2-N3	5.32	1.40	1.35
1	N	1505	G	N3-C4	-5.32	1.31	1.35
1	N	752	G	N7-C5	-5.32	1.36	1.39
1	N	782	A	C4'-O4'	5.32	1.52	1.45
1	N	1003	G	C2-N2	5.32	1.39	1.34
1	N	1284	C	C2'-C1'	-5.32	1.47	1.53
1	N	623	C	O5'-C5'	-5.32	1.34	1.42
1	N	668	G	C3'-C2'	5.32	1.58	1.52
1	N	901	A	N9-C4	5.32	1.41	1.37
1	N	1114	C	N1-C6	5.32	1.40	1.37
1	N	1200	C	P-O5'	5.32	1.65	1.59
1	N	494	G	C5'-C4'	5.32	1.57	1.51
1	N	1019	A	C6-N6	5.32	1.38	1.33
1	N	1518	A	N3-C4	5.31	1.38	1.34
1	N	121	U	C2-O2	5.31	1.27	1.22
1	N	220	G	O4'-C1'	5.31	1.48	1.41
1	N	297	G	O3'-P	-5.31	1.54	1.61
1	N	384	G	N1-C2	5.31	1.42	1.37
1	N	477	C	C4-C5	5.31	1.47	1.43
1	N	804	U	C2-O2	5.31	1.27	1.22
1	N	1037	C	C4-C5	5.31	1.47	1.43
1	N	1139	G	O3'-P	-5.31	1.54	1.61
1	N	1139	G	C5-C6	-5.31	1.37	1.42
1	N	484	G	C6-N1	5.31	1.43	1.39
1	N	196	A	N3-C4	-5.31	1.31	1.34
1	N	406	G	N9-C8	-5.31	1.34	1.37
1	N	749	A	P-O5'	-5.31	1.54	1.59
1	N	812	G	O3'-P	-5.31	1.54	1.61
1	N	856	C	C2-O2	5.31	1.29	1.24
1	N	982	U	O3'-P	-5.31	1.54	1.61
1	N	1139	G	N9-C8	5.31	1.41	1.37
1	N	540	G	C8-N7	5.31	1.34	1.30
1	N	589	U	C4'-O4'	-5.31	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1084	G	N7-C5	5.31	1.42	1.39
1	N	29	U	N1-C2	5.31	1.43	1.38
1	N	1209	C	O4'-C1'	5.31	1.48	1.41
1	N	343	U	C4-O4	5.30	1.27	1.23
1	N	471	U	C5'-C4'	-5.30	1.45	1.51
1	N	535	A	C2'-C1'	5.30	1.59	1.53
1	N	654	G	C3'-C2'	-5.30	1.47	1.52
1	N	812	G	C5'-C4'	5.30	1.57	1.51
1	N	1150	A	N9-C4	-5.30	1.34	1.37
1	N	1250	A	N9-C4	-5.30	1.34	1.37
1	N	1364	U	C4-C5	5.30	1.48	1.43
1	N	38	G	C5-C4	5.30	1.42	1.38
1	N	511	C	C2-O2	5.30	1.29	1.24
1	N	610	U	C5-C6	5.30	1.39	1.34
1	N	416	G	N1-C2	5.30	1.42	1.37
1	N	461	A	P-O5'	5.30	1.65	1.59
1	N	537	G	O4'-C1'	5.30	1.48	1.41
1	N	670	G	N1-C2	5.30	1.42	1.37
1	N	941	G	C5'-C4'	5.30	1.57	1.51
1	N	1035	A	C3'-C2'	5.30	1.58	1.52
1	N	1177	G	C8-N7	-5.30	1.27	1.30
1	N	358	U	N1-C6	5.30	1.42	1.38
1	N	912	C	C5-C6	-5.30	1.30	1.34
1	N	935	A	C4'-C3'	5.30	1.58	1.53
1	N	1173	U	C4'-C3'	5.30	1.58	1.53
1	N	1489	G	C4'-C3'	-5.30	1.47	1.52
1	N	623	C	N1-C6	-5.30	1.33	1.37
1	N	1071	C	O4'-C1'	5.30	1.48	1.41
1	N	1215	G	P-O5'	-5.30	1.54	1.59
1	N	1384	C	N1-C2	-5.30	1.34	1.40
1	N	1472	U	C5'-C4'	5.29	1.57	1.51
1	N	88	U	C3'-C2'	5.29	1.58	1.52
1	N	930	C	C4-C5	-5.29	1.38	1.43
1	N	1186	G	N9-C4	-5.29	1.33	1.38
1	N	466	A	N9-C4	5.29	1.41	1.37
1	N	858	G	C2'-C1'	5.29	1.59	1.53
1	N	983	A	C3'-C2'	5.29	1.58	1.52
1	N	1069	C	C3'-C2'	-5.29	1.47	1.52
1	N	813	U	C5'-C4'	5.29	1.57	1.51
1	N	351	G	C2'-C1'	-5.29	1.47	1.53
1	N	513	C	O4'-C1'	5.29	1.48	1.41
1	N	771	G	N1-C2	5.29	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	924	C	C2'-C1'	5.29	1.59	1.53
1	N	964	A	N7-C5	-5.29	1.36	1.39
1	N	986	U	C3'-C2'	-5.29	1.47	1.52
1	N	964	A	C5'-C4'	5.29	1.57	1.51
1	N	1364	U	C4'-C3'	5.29	1.58	1.53
1	N	101	A	C5'-C4'	5.29	1.57	1.51
1	N	270	A	C5-C4	5.29	1.42	1.38
1	N	568	G	C5-C6	-5.29	1.37	1.42
1	N	1227	A	C6-N6	5.29	1.38	1.33
1	N	1363	A	N7-C5	-5.29	1.36	1.39
1	N	1437	A	N7-C5	-5.29	1.36	1.39
1	N	158	G	N1-C2	5.28	1.42	1.37
1	N	435	A	P-O5'	-5.28	1.54	1.59
1	N	482	A	P-O5'	-5.28	1.54	1.59
1	N	548	G	C4'-C3'	-5.28	1.47	1.52
1	N	695	A	C4'-C3'	5.28	1.58	1.53
1	N	785	G	P-O5'	-5.28	1.54	1.59
1	N	890	G	C2-N3	5.28	1.36	1.32
1	N	1432	G	O4'-C1'	-5.28	1.34	1.41
1	N	1468	A	N3-C4	-5.28	1.31	1.34
1	N	38	G	N3-C4	5.28	1.39	1.35
1	N	842	U	N3-C4	5.28	1.43	1.38
1	N	1245	C	C2-N3	-5.28	1.31	1.35
1	N	43	C	N1-C2	-5.28	1.34	1.40
1	N	538	G	C4'-C3'	5.28	1.58	1.53
1	N	410	G	N1-C2	-5.28	1.33	1.37
1	N	760	G	C5'-C4'	5.28	1.57	1.51
1	N	108	G	N9-C8	5.28	1.41	1.37
1	N	666	G	N9-C4	-5.28	1.33	1.38
1	N	837	U	N3-C4	5.28	1.43	1.38
1	N	861	G	C6-N1	5.28	1.43	1.39
1	N	1397	C	C4-N4	5.28	1.38	1.33
1	N	128	G	C5'-C4'	5.27	1.57	1.51
1	N	361	G	C2'-C1'	5.27	1.59	1.53
1	N	1041	G	C5'-C4'	5.27	1.57	1.51
1	N	1203	C	O4'-C1'	5.27	1.48	1.41
1	N	196	A	N9-C8	5.27	1.42	1.37
1	N	854	U	N1-C6	5.27	1.42	1.38
1	N	1296	C	C2-O2	-5.27	1.19	1.24
1	N	849	G	C2-N2	5.27	1.39	1.34
1	N	1245	C	C2'-C1'	-5.27	1.47	1.53
1	N	303	A	P-O5'	5.27	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	985	C	C2'-C1'	-5.27	1.47	1.53
1	N	40	C	C2-O2	-5.27	1.19	1.24
1	N	264	C	P-O5'	-5.27	1.54	1.59
1	N	812	G	C2-N3	5.27	1.36	1.32
1	N	859	G	N9-C8	5.27	1.41	1.37
1	N	110	C	O4'-C1'	5.26	1.48	1.41
1	N	406	G	C4'-C3'	-5.26	1.47	1.52
1	N	455	G	C3'-O3'	5.26	1.49	1.42
1	N	457	G	N7-C5	-5.26	1.36	1.39
1	N	466	A	O3'-P	-5.26	1.54	1.61
1	N	541	G	N7-C5	-5.26	1.36	1.39
1	N	480	U	O3'-P	-5.26	1.54	1.61
1	N	965	U	P-O5'	-5.26	1.54	1.59
1	N	983	A	C5'-C4'	5.26	1.57	1.51
1	N	1109	C	C2-N3	5.26	1.40	1.35
1	N	1213	A	C2'-O2'	-5.26	1.34	1.41
1	N	1432	G	C3'-C2'	5.26	1.58	1.52
1	N	460	A	C6-N6	5.26	1.38	1.33
1	N	497	G	C5-C6	-5.26	1.37	1.42
1	N	519	C	C4'-C3'	5.26	1.58	1.53
1	N	778	G	C3'-O3'	5.26	1.49	1.42
1	N	797	C	N1-C6	5.26	1.40	1.37
1	N	818	G	C2-N2	5.26	1.39	1.34
1	N	1113	C	C5'-C4'	5.26	1.57	1.51
1	N	1304	G	N9-C4	5.26	1.42	1.38
1	N	1350	A	C6-N6	5.26	1.38	1.33
1	N	135	C	C1'-N1	5.26	1.56	1.48
1	N	266	G	C8-N7	-5.26	1.27	1.30
1	N	413	G	P-O5'	5.26	1.65	1.59
1	N	635	A	N3-C4	-5.26	1.31	1.34
1	N	891	U	C2-N3	-5.26	1.34	1.37
1	N	1242	G	N1-C2	5.26	1.42	1.37
1	N	184	G	C5-C4	5.26	1.42	1.38
1	N	280	C	O4'-C1'	5.26	1.48	1.41
1	N	352	C	C1'-N1	5.26	1.56	1.48
1	N	700	G	C5'-C4'	5.26	1.57	1.51
1	N	155	A	N9-C4	-5.25	1.34	1.37
1	N	428	G	N9-C4	5.25	1.42	1.38
1	N	693	G	C5-C4	-5.25	1.34	1.38
1	N	766	A	P-O5'	-5.25	1.54	1.59
1	N	799	G	N7-C5	-5.25	1.36	1.39
1	N	1101	A	C4'-C3'	5.25	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	15	G	O3'-P	-5.25	1.54	1.61
1	N	341	C	C4-C5	5.25	1.47	1.43
1	N	780	A	C4'-C3'	5.25	1.58	1.53
1	N	827	U	C3'-O3'	5.25	1.49	1.42
1	N	1519	A	O3'-P	-5.25	1.54	1.61
1	N	263	A	C6-N6	5.25	1.38	1.33
1	N	930	C	C5-C6	5.25	1.38	1.34
1	N	799	G	N3-C4	5.25	1.39	1.35
1	N	1461	G	N9-C4	-5.25	1.33	1.38
1	N	333	U	N3-C4	5.25	1.43	1.38
1	N	516	U	N1-C2	-5.25	1.33	1.38
1	N	696	A	N3-C4	-5.25	1.31	1.34
1	N	1421	G	P-O5'	-5.25	1.54	1.59
1	N	1460	C	C2-N3	5.25	1.40	1.35
1	N	1079	G	O4'-C1'	5.25	1.48	1.41
1	N	1080	A	C5-C4	5.25	1.42	1.38
1	N	1129	C	C2-O2	5.24	1.29	1.24
1	N	53	A	C5'-C4'	5.24	1.57	1.51
1	N	502	A	C3'-C2'	5.24	1.58	1.52
1	N	1252	A	O4'-C1'	5.24	1.48	1.41
1	N	654	G	C5-C6	5.24	1.47	1.42
1	N	1057	G	C5-C4	5.24	1.42	1.38
1	N	1274	A	C6-N6	5.24	1.38	1.33
1	N	1396	A	N9-C8	5.24	1.42	1.37
1	N	43	C	O3'-P	-5.24	1.54	1.61
1	N	137	U	C2-N3	5.24	1.41	1.37
1	N	489	C	C4'-O4'	5.24	1.52	1.45
1	N	1120	C	C3'-O3'	5.24	1.49	1.42
1	N	1394	A	N7-C5	-5.24	1.36	1.39
1	N	565	U	C5-C6	-5.24	1.29	1.34
1	N	1514	G	N1-C2	5.24	1.42	1.37
1	N	172	A	C5'-C4'	5.24	1.57	1.51
1	N	1482	G	P-O5'	-5.24	1.54	1.59
1	N	594	U	C2-N3	5.23	1.41	1.37
1	N	831	A	C5-C6	-5.23	1.36	1.41
1	N	1394	A	C1'-N9	5.23	1.56	1.48
1	N	105	G	C2-N3	5.23	1.36	1.32
1	N	295	C	C2-N3	5.23	1.40	1.35
1	N	356	A	N1-C2	-5.23	1.29	1.34
1	N	579	A	P-O5'	5.23	1.65	1.59
1	N	603	U	C3'-C2'	-5.23	1.47	1.52
1	N	1273	C	N3-C4	5.23	1.37	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	303	A	C8-N7	-5.23	1.27	1.31
1	N	1131	G	C8-N7	5.23	1.34	1.30
1	N	1160	G	C4'-C3'	5.23	1.58	1.53
1	N	547	A	N9-C4	-5.23	1.34	1.37
1	N	986	U	P-O5'	-5.23	1.54	1.59
1	N	1008	U	C2-N3	5.23	1.41	1.37
1	N	1524	C	N1-C6	5.23	1.40	1.37
1	N	255	G	C2-N3	5.23	1.36	1.32
1	N	508	U	O3'-P	-5.23	1.54	1.61
1	N	820	U	C4'-C3'	5.23	1.58	1.53
1	N	1455	G	N9-C4	-5.23	1.33	1.38
1	N	213	G	C4'-O4'	-5.22	1.38	1.45
1	N	873	A	C6-N1	5.22	1.39	1.35
1	N	1253	G	C6-N1	5.22	1.43	1.39
1	N	1307	U	C1'-N1	5.22	1.56	1.48
1	N	1520	C	C2'-C1'	-5.22	1.47	1.53
1	N	1266	G	C5-C6	-5.22	1.37	1.42
1	N	488	C	C1'-N1	5.22	1.56	1.48
1	N	368	U	C4'-C3'	-5.22	1.47	1.52
1	N	369	G	N9-C4	5.22	1.42	1.38
1	N	404	G	N9-C4	-5.22	1.33	1.38
1	N	439	U	C3'-C2'	5.22	1.58	1.52
1	N	39	G	C2'-C1'	-5.21	1.47	1.53
1	N	551	U	C2-N3	5.21	1.41	1.37
1	N	711	G	N3-C4	5.21	1.39	1.35
1	N	742	G	C2'-C1'	-5.21	1.47	1.53
1	N	1077	G	C4'-C3'	5.21	1.58	1.53
1	N	1174	G	N7-C5	-5.21	1.36	1.39
1	N	884	U	P-O5'	-5.21	1.54	1.59
1	N	1002	G	C8-N7	-5.21	1.27	1.30
1	N	1144	G	C2-N3	5.21	1.36	1.32
1	N	833	G	C8-N7	-5.21	1.27	1.30
1	N	886	G	P-O5'	-5.21	1.54	1.59
1	N	902	G	C2-N2	5.21	1.39	1.34
1	N	1215	G	C3'-C2'	5.21	1.58	1.52
1	N	272	C	C1'-N1	5.21	1.56	1.48
1	N	1120	C	C5'-C4'	5.21	1.57	1.51
1	N	1411	C	C4-N4	5.21	1.38	1.33
1	N	450	G	C5-C6	-5.21	1.37	1.42
1	N	119	A	C2'-O2'	5.20	1.48	1.41
1	N	960	U	C4'-O4'	-5.20	1.38	1.45
1	N	151	A	C6-N1	5.20	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	217	C	C5-C6	5.20	1.38	1.34
1	N	763	G	C3'-O3'	-5.20	1.34	1.42
1	N	937	A	N3-C4	5.20	1.38	1.34
1	N	1136	C	N1-C6	5.20	1.40	1.37
1	N	1288	A	C5-C4	5.20	1.42	1.38
1	N	1449	C	C2-N3	5.20	1.40	1.35
1	N	158	G	C4'-O4'	5.20	1.52	1.45
1	N	272	C	C2'-C1'	-5.20	1.47	1.53
1	N	583	A	C6-N6	5.20	1.38	1.33
1	N	1006	G	C2'-C1'	-5.20	1.47	1.53
1	N	1124	G	C4'-O4'	-5.20	1.38	1.45
1	N	1526	G	N9-C8	-5.20	1.34	1.37
1	N	292	G	C8-N7	-5.20	1.27	1.30
1	N	747	A	N9-C4	5.20	1.41	1.37
1	N	194	C	P-O5'	-5.20	1.54	1.59
1	N	408	A	C2'-C1'	-5.20	1.47	1.53
1	N	484	G	C5'-C4'	5.20	1.57	1.51
1	N	513	C	C4'-C3'	5.20	1.58	1.53
1	N	818	G	O4'-C1'	5.20	1.48	1.41
1	N	1131	G	C2'-O2'	-5.20	1.34	1.41
1	N	1145	A	N9-C8	5.20	1.42	1.37
1	N	1312	G	C4'-C3'	5.20	1.58	1.53
1	N	1513	A	C6-N6	5.20	1.38	1.33
1	N	1127	G	N1-C2	5.19	1.42	1.37
1	N	82	G	C5'-C4'	5.19	1.57	1.51
1	N	288	A	N9-C4	5.19	1.41	1.37
1	N	748	G	C5-C6	-5.19	1.37	1.42
1	N	760	G	C3'-O3'	5.19	1.49	1.42
1	N	7	A	P-O5'	-5.19	1.54	1.59
1	N	71	A	C6-N1	5.19	1.39	1.35
1	N	330	C	C4-C5	-5.19	1.38	1.43
1	N	390	U	N3-C4	-5.19	1.33	1.38
1	N	520	A	C3'-C2'	-5.19	1.47	1.52
1	N	556	C	C1'-N1	-5.19	1.39	1.46
1	N	971	G	N9-C4	-5.19	1.33	1.38
1	N	988	G	C5-C4	-5.19	1.34	1.38
1	N	354	G	N1-C2	5.19	1.42	1.37
1	N	1365	G	C1'-N9	5.19	1.56	1.48
1	N	250	A	C6-N1	5.19	1.39	1.35
1	N	1158	C	P-O5'	5.19	1.65	1.59
1	N	348	G	O4'-C1'	-5.19	1.34	1.41
1	N	988	G	C6-N1	5.19	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	698	G	C2'-C1'	-5.18	1.47	1.53
1	N	729	A	C3'-C2'	5.18	1.58	1.52
1	N	1087	G	C3'-C2'	5.18	1.58	1.52
1	N	1243	C	C4-N4	5.18	1.38	1.33
1	N	1436	U	C4-C5	5.18	1.48	1.43
1	N	76	G	O3'-P	-5.18	1.54	1.61
1	N	392	C	C3'-C2'	-5.18	1.47	1.52
1	N	781	A	C5'-C4'	5.18	1.57	1.51
1	N	891	U	C1'-N1	5.18	1.56	1.48
1	N	1043	G	C2-N3	5.18	1.36	1.32
1	N	1197	A	N9-C4	5.18	1.41	1.37
1	N	279	A	C4'-O4'	-5.18	1.38	1.45
1	N	1270	G	C8-N7	-5.18	1.27	1.30
1	N	109	A	C5-C4	-5.18	1.35	1.38
1	N	191	G	N9-C4	5.18	1.42	1.38
1	N	309	A	C2'-C1'	-5.18	1.47	1.53
1	N	412	A	N9-C4	5.18	1.41	1.37
1	N	510	A	N7-C5	-5.18	1.36	1.39
1	N	522	C	C4'-C3'	5.18	1.58	1.53
1	N	748	G	O4'-C1'	5.18	1.48	1.41
1	N	1138	G	C8-N7	5.18	1.34	1.30
1	N	1386	G	C3'-C2'	5.18	1.58	1.52
1	N	872	A	C6-N1	-5.18	1.31	1.35
1	N	934	C	O4'-C1'	-5.18	1.34	1.41
1	N	1246	A	C8-N7	-5.18	1.27	1.31
1	N	98	A	C6-N1	5.18	1.39	1.35
1	N	340	U	C2'-C1'	-5.18	1.47	1.53
1	N	465	A	C4'-O4'	5.18	1.52	1.45
1	N	1019	A	N3-C4	-5.18	1.31	1.34
1	N	1519	A	C5-C6	5.18	1.45	1.41
1	N	834	U	C4-C5	5.17	1.48	1.43
1	N	323	U	N1-C2	-5.17	1.33	1.38
1	N	378	G	C5-C6	-5.17	1.37	1.42
1	N	382	A	C8-N7	-5.17	1.27	1.31
1	N	1122	U	O3'-P	5.17	1.67	1.61
1	N	304	U	C2-O2	5.17	1.27	1.22
1	N	385	C	C2'-O2'	5.17	1.48	1.41
1	N	413	G	C2-N2	5.17	1.39	1.34
1	N	1120	C	C3'-C2'	5.17	1.58	1.52
1	N	1480	A	C6-N1	5.17	1.39	1.35
1	N	171	A	C6-N6	5.17	1.38	1.33
1	N	1154	G	C2'-C1'	-5.17	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1290	G	N9-C4	-5.17	1.33	1.38
1	N	1364	U	N3-C4	5.17	1.43	1.38
1	N	1491	G	O3'-P	-5.17	1.54	1.61
1	N	97	G	N9-C4	-5.17	1.33	1.38
1	N	910	C	C2-N3	5.17	1.39	1.35
1	N	1002	G	C2-N3	5.17	1.36	1.32
1	N	1406	U	O3'-P	5.17	1.67	1.61
1	N	199	A	C3'-O3'	5.16	1.49	1.42
1	N	254	G	O4'-C1'	5.16	1.48	1.41
1	N	489	C	C2'-C1'	-5.16	1.47	1.53
1	N	1171	A	C2'-C1'	-5.16	1.47	1.53
1	N	1237	C	C2-O2	5.16	1.29	1.24
1	N	1531	A	C2'-C1'	-5.16	1.47	1.53
1	N	941	G	N3-C4	-5.16	1.31	1.35
1	N	1426	G	C2-N3	5.16	1.36	1.32
1	N	473	U	C3'-C2'	5.16	1.58	1.52
1	N	629	A	C5-C4	5.16	1.42	1.38
1	N	817	C	C5'-C4'	5.16	1.57	1.51
1	N	824	G	N3-C4	-5.16	1.31	1.35
1	N	974	A	N7-C5	5.16	1.42	1.39
1	N	1062	U	C2'-C1'	5.16	1.59	1.53
1	N	1331	G	C2'-C1'	-5.16	1.47	1.53
1	N	1360	A	C8-N7	-5.16	1.27	1.31
1	N	607	A	P-O5'	-5.16	1.54	1.59
1	N	874	G	N9-C8	5.16	1.41	1.37
1	N	25	C	C5'-C4'	5.15	1.57	1.51
1	N	470	C	O3'-P	-5.15	1.54	1.61
1	N	595	A	C6-N6	5.15	1.38	1.33
1	N	724	G	N9-C4	5.15	1.42	1.38
1	N	764	C	C2'-O2'	-5.15	1.34	1.41
1	N	1305	G	C2-N3	5.15	1.36	1.32
1	N	1335	U	O3'-P	-5.15	1.54	1.61
1	N	4	U	O4'-C1'	-5.15	1.34	1.41
1	N	26	A	C6-N6	5.15	1.38	1.33
1	N	203	G	N9-C4	-5.15	1.33	1.38
1	N	211	G	C5'-C4'	5.15	1.57	1.51
1	N	717	U	O3'-P	-5.15	1.54	1.61
1	N	987	G	P-O5'	-5.15	1.54	1.59
1	N	992	U	C3'-C2'	5.15	1.58	1.52
1	N	1127	G	C2'-C1'	-5.15	1.47	1.53
1	N	139	A	N3-C4	5.15	1.38	1.34
1	N	146	G	C2-N3	5.15	1.36	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	348	G	C5-C4	-5.15	1.34	1.38
1	N	495	A	C5'-C4'	5.15	1.57	1.51
1	N	1382	C	C5'-C4'	5.15	1.57	1.51
1	N	1318	A	C2-N3	5.15	1.38	1.33
1	N	1471	U	N3-C4	5.15	1.43	1.38
1	N	223	A	C2-N3	-5.15	1.28	1.33
1	N	1424	U	N3-C4	5.15	1.43	1.38
1	N	79	G	C2-N3	5.15	1.36	1.32
1	N	238	A	C5-C6	-5.15	1.36	1.41
1	N	239	U	C5-C6	5.15	1.38	1.34
1	N	1193	G	C2-N3	5.15	1.36	1.32
1	N	1332	A	C5-C6	-5.15	1.36	1.41
1	N	155	A	P-O5'	-5.14	1.54	1.59
1	N	879	C	N1-C6	5.14	1.40	1.37
1	N	1210	C	C3'-O3'	5.14	1.49	1.42
1	N	1508	A	C1'-N9	-5.14	1.39	1.46
1	N	141	G	C2'-C1'	-5.14	1.47	1.53
1	N	265	G	N7-C5	-5.14	1.36	1.39
1	N	389	A	C5-C6	-5.14	1.36	1.41
1	N	408	A	N9-C4	-5.14	1.34	1.37
1	N	689	C	C4'-O4'	5.14	1.52	1.45
1	N	782	A	N3-C4	-5.14	1.31	1.34
1	N	922	G	C2'-C1'	5.14	1.59	1.53
1	N	1344	C	N1-C6	5.14	1.40	1.37
1	N	1282	C	C2'-C1'	-5.14	1.47	1.53
1	N	242	G	N1-C2	5.14	1.41	1.37
1	N	262	A	C4'-C3'	5.14	1.58	1.53
1	N	373	A	C2-N3	5.14	1.38	1.33
1	N	1058	G	C6-O6	5.14	1.28	1.24
1	N	1297	G	O4'-C1'	5.14	1.48	1.41
1	N	1527	U	N1-C6	5.14	1.42	1.38
1	N	115	G	C5-C4	5.14	1.42	1.38
1	N	588	G	P-O5'	5.14	1.64	1.59
1	N	1230	C	C4'-O4'	-5.14	1.38	1.45
1	N	1233	G	C6-N1	5.14	1.43	1.39
1	N	262	A	C6-N6	5.14	1.38	1.33
1	N	470	C	C3'-C2'	5.14	1.58	1.52
1	N	476	U	C3'-O3'	5.14	1.49	1.42
1	N	714	G	O4'-C1'	-5.14	1.34	1.41
1	N	1169	A	C3'-O3'	5.14	1.49	1.42
1	N	748	G	N1-C2	5.13	1.41	1.37
1	N	977	A	C3'-O3'	5.13	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	484	G	N9-C8	-5.13	1.34	1.37
1	N	1026	G	N9-C4	5.13	1.42	1.38
1	N	265	G	C2-N2	5.13	1.39	1.34
1	N	633	G	C3'-C2'	5.13	1.58	1.52
1	N	1334	G	C4'-C3'	5.13	1.58	1.53
1	N	1225	A	N9-C8	5.13	1.41	1.37
1	N	1395	C	N1-C2	-5.13	1.35	1.40
1	N	233	C	C4-N4	5.13	1.38	1.33
1	N	781	A	N7-C5	-5.13	1.36	1.39
1	N	824	G	N1-C2	5.13	1.41	1.37
1	N	1134	G	C2-N2	5.13	1.39	1.34
1	N	1392	G	P-O5'	-5.13	1.54	1.59
1	N	57	G	N3-C4	-5.13	1.31	1.35
1	N	217	C	C2-O2	5.13	1.29	1.24
1	N	1123	U	C4'-O4'	5.13	1.52	1.45
1	N	1155	A	C2-N3	5.13	1.38	1.33
1	N	234	C	N3-C4	5.12	1.37	1.33
1	N	491	G	C8-N7	-5.12	1.27	1.30
1	N	818	G	C3'-O3'	5.12	1.49	1.42
1	N	1033	G	O4'-C1'	-5.12	1.34	1.41
1	N	1200	C	C4-N4	5.12	1.38	1.33
1	N	111	G	C2-N2	5.12	1.39	1.34
1	N	135	C	C3'-O3'	5.12	1.49	1.42
1	N	508	U	C4-C5	-5.12	1.39	1.43
1	N	1143	G	O3'-P	5.12	1.67	1.61
1	N	1227	A	C3'-C2'	-5.12	1.47	1.52
1	N	520	A	C5-C4	5.12	1.42	1.38
1	N	734	G	C3'-C2'	-5.12	1.47	1.52
1	N	875	U	O4'-C1'	5.12	1.48	1.41
1	N	947	G	C5-C4	-5.12	1.34	1.38
1	N	232	G	O4'-C1'	5.12	1.48	1.41
1	N	1208	C	C3'-C2'	-5.12	1.47	1.52
1	N	1304	G	C8-N7	-5.12	1.27	1.30
1	N	1326	U	C2'-C1'	-5.12	1.47	1.53
1	N	39	G	O3'-P	5.11	1.67	1.61
1	N	593	U	C4'-O4'	-5.11	1.39	1.45
1	N	674	G	C5-C6	-5.11	1.37	1.42
1	N	1051	C	N1-C6	5.11	1.40	1.37
1	N	1225	A	C5-C4	-5.11	1.35	1.38
1	N	628	G	C3'-C2'	-5.11	1.47	1.52
1	N	1427	C	C1'-N1	5.11	1.56	1.48
1	N	638	U	C3'-O3'	5.11	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	645	G	C5'-C4'	5.11	1.57	1.51
1	N	753	A	O3'-P	-5.11	1.55	1.61
1	N	889	A	C3'-C2'	5.11	1.58	1.52
1	N	1189	U	C1'-N1	5.11	1.56	1.48
1	N	104	G	C5'-C4'	5.11	1.57	1.51
1	N	612	C	C4-N4	5.11	1.38	1.33
1	N	18	C	C2-O2	5.11	1.29	1.24
1	N	19	A	P-O5'	-5.11	1.54	1.59
1	N	46	G	C2-N2	5.11	1.39	1.34
1	N	810	C	C2'-C1'	-5.11	1.47	1.53
1	N	1191	A	N7-C5	-5.11	1.36	1.39
1	N	574	A	N1-C2	-5.11	1.29	1.34
1	N	861	G	N7-C5	5.11	1.42	1.39
1	N	73	C	C4'-C3'	5.10	1.58	1.53
1	N	792	A	N3-C4	-5.10	1.31	1.34
1	N	403	C	C2'-C1'	-5.10	1.47	1.53
1	N	474	G	C2-N3	5.10	1.36	1.32
1	N	547	A	O3'-P	-5.10	1.55	1.61
1	N	878	A	C6-N1	5.10	1.39	1.35
1	N	498	A	N3-C4	-5.10	1.31	1.34
1	N	526	C	C4-C5	5.10	1.47	1.43
1	N	963	G	C5-C6	5.10	1.47	1.42
1	N	1160	G	N3-C4	5.10	1.39	1.35
1	N	1228	C	C4'-O4'	5.10	1.52	1.45
1	N	323	U	N1-C6	5.10	1.42	1.38
1	N	766	A	C6-N1	5.10	1.39	1.35
1	N	984	C	C4'-O4'	5.10	1.52	1.45
1	N	1316	G	P-O5'	-5.10	1.54	1.59
1	N	1419	G	C4'-C3'	5.10	1.58	1.53
1	N	1457	G	C5-C4	5.10	1.42	1.38
1	N	375	U	C4-O4	5.10	1.27	1.23
1	N	1272	G	N9-C4	-5.10	1.33	1.38
1	N	1413	A	C4'-C3'	5.10	1.58	1.53
1	N	663	A	C8-N7	-5.10	1.27	1.31
1	N	1285	A	C5-C6	5.10	1.45	1.41
1	N	1289	A	C5'-C4'	5.10	1.57	1.51
1	N	1498	U	C3'-C2'	5.10	1.58	1.52
1	N	143	A	C5-C4	5.09	1.42	1.38
1	N	387	U	O4'-C1'	5.09	1.48	1.41
1	N	832	G	N9-C8	-5.09	1.34	1.37
1	N	1305	G	N3-C4	5.09	1.39	1.35
1	N	1419	G	C5'-C4'	5.09	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	77	A	N9-C8	5.09	1.41	1.37
1	N	1102	A	C5-C6	-5.09	1.36	1.41
1	N	27	G	C2'-C1'	-5.09	1.47	1.53
1	N	106	C	N3-C4	5.09	1.37	1.33
1	N	663	A	C6-N6	5.09	1.38	1.33
1	N	668	G	C5-C6	-5.09	1.37	1.42
1	N	781	A	N9-C8	-5.09	1.33	1.37
1	N	1002	G	N1-C2	5.09	1.41	1.37
1	N	1169	A	N1-C2	5.09	1.39	1.34
1	N	1517	G	C2-N2	5.09	1.39	1.34
1	N	42	G	C2-N3	5.09	1.36	1.32
1	N	73	C	P-O5'	5.09	1.64	1.59
1	N	155	A	C3'-C2'	-5.09	1.47	1.52
1	N	317	U	C3'-O3'	5.09	1.49	1.42
1	N	744	C	N1-C6	5.09	1.40	1.37
1	N	782	A	C5'-C4'	5.09	1.57	1.51
1	N	916	U	C2-N3	5.09	1.41	1.37
1	N	1114	C	C5'-C4'	5.09	1.57	1.51
1	N	50	A	C5'-C4'	5.08	1.57	1.51
1	N	411	A	O3'-P	-5.08	1.55	1.61
1	N	512	U	C2'-C1'	-5.08	1.47	1.53
1	N	736	C	C4-N4	5.08	1.38	1.33
1	N	1204	A	C8-N7	-5.08	1.27	1.31
1	N	15	G	C5-C4	5.08	1.42	1.38
1	N	185	U	P-O5'	-5.08	1.54	1.59
1	N	743	A	N9-C4	-5.08	1.34	1.37
1	N	1082	A	O4'-C1'	-5.08	1.35	1.41
1	N	1338	G	C3'-O3'	-5.08	1.35	1.42
1	N	30	U	C5-C6	5.08	1.38	1.34
1	N	50	A	C8-N7	-5.08	1.27	1.31
1	N	741	G	C3'-C2'	-5.08	1.47	1.52
1	N	1013	G	C5'-C4'	5.08	1.57	1.51
1	N	215	C	C2'-C1'	-5.08	1.47	1.53
1	N	421	U	O4'-C1'	-5.08	1.35	1.41
1	N	16	A	C4'-C3'	5.08	1.58	1.53
1	N	807	A	C2'-C1'	-5.08	1.47	1.53
1	N	861	G	N3-C4	-5.08	1.31	1.35
1	N	1023	U	N1-C2	-5.08	1.33	1.38
1	N	1079	G	C2'-C1'	-5.08	1.47	1.53
1	N	1439	G	C2-N2	5.08	1.39	1.34
1	N	377	G	N9-C8	5.08	1.41	1.37
1	N	535	A	C2-N3	-5.08	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	997	U	C3'-C2'	-5.08	1.47	1.52
1	N	1080	A	N3-C4	-5.08	1.31	1.34
1	N	1445	U	N1-C2	5.07	1.43	1.38
1	N	1050	G	C2'-C1'	-5.07	1.47	1.53
1	N	44	A	C2-N3	-5.07	1.28	1.33
1	N	225	C	C2-O2	5.07	1.29	1.24
1	N	758	C	N1-C2	5.07	1.45	1.40
1	N	942	G	N7-C5	5.07	1.42	1.39
1	N	1299	A	C3'-C2'	5.07	1.58	1.52
1	N	1312	G	C3'-O3'	5.07	1.49	1.42
1	N	274	A	C4'-C3'	5.07	1.58	1.53
1	N	413	G	C6-O6	5.07	1.28	1.24
1	N	857	C	C5'-C4'	5.07	1.57	1.51
1	N	32	A	C5-C4	5.07	1.42	1.38
1	N	77	A	C2'-C1'	-5.07	1.47	1.53
1	N	249	U	C5-C6	5.07	1.38	1.34
1	N	342	C	C1'-N1	5.07	1.56	1.48
1	N	537	G	C3'-C2'	-5.07	1.47	1.52
1	N	877	G	C2-N2	5.07	1.39	1.34
1	N	1335	U	C1'-N1	5.07	1.56	1.48
1	N	1357	A	N7-C5	-5.07	1.36	1.39
1	N	1402	C	N3-C4	5.07	1.37	1.33
1	N	61	G	N1-C2	5.06	1.41	1.37
1	N	97	G	C6-N1	5.06	1.43	1.39
1	N	1190	G	N1-C2	5.06	1.41	1.37
1	N	105	G	P-O5'	-5.06	1.54	1.59
1	N	111	G	C4'-O4'	5.06	1.52	1.45
1	N	733	G	N1-C2	5.06	1.41	1.37
1	N	1298	U	C5-C6	5.06	1.38	1.34
1	N	444	G	C2'-C1'	-5.06	1.47	1.53
1	N	187	G	C6-O6	5.06	1.28	1.24
1	N	416	G	C5-C6	-5.06	1.37	1.42
1	N	770	C	N1-C2	-5.06	1.35	1.40
1	N	1097	C	C4'-C3'	5.06	1.58	1.53
1	N	1157	A	N9-C4	-5.06	1.34	1.37
1	N	1380	U	P-O5'	-5.06	1.54	1.59
1	N	675	A	N7-C5	-5.06	1.36	1.39
1	N	1185	G	C2-N2	5.06	1.39	1.34
1	N	1198	G	C4'-O4'	-5.06	1.39	1.45
1	N	909	A	N7-C5	-5.06	1.36	1.39
1	N	982	U	C2'-C1'	-5.06	1.47	1.53
1	N	1249	C	O4'-C1'	-5.06	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	68	G	P-O5'	-5.05	1.54	1.59
1	N	115	G	O4'-C1'	5.05	1.48	1.41
1	N	480	U	P-O5'	-5.05	1.54	1.59
1	N	587	G	C4'-C3'	-5.05	1.47	1.52
1	N	1068	G	C6-O6	-5.05	1.19	1.24
1	N	1296	C	N3-C4	5.05	1.37	1.33
1	N	1340	A	C3'-O3'	-5.05	1.35	1.42
1	N	837	U	O4'-C1'	5.05	1.48	1.41
1	N	81	A	C5'-C4'	5.05	1.57	1.51
1	N	369	G	N3-C4	5.05	1.39	1.35
1	N	490	C	C3'-C2'	-5.05	1.47	1.52
1	N	1010	U	N1-C2	5.05	1.43	1.38
1	N	1025	U	C5'-C4'	5.05	1.57	1.51
1	N	1207	G	C5-C4	-5.05	1.34	1.38
1	N	1331	G	N9-C4	-5.05	1.33	1.38
1	N	1353	G	C5-C4	-5.05	1.34	1.38
1	N	1462	C	C4'-C3'	5.05	1.58	1.53
1	N	12	U	P-O5'	-5.05	1.54	1.59
1	N	903	G	O4'-C1'	5.05	1.48	1.41
1	N	1130	A	C2'-O2'	-5.05	1.35	1.41
1	N	929	G	C2'-C1'	-5.05	1.47	1.53
1	N	1252	A	N9-C8	5.05	1.41	1.37
1	N	214	C	C5'-C4'	5.05	1.57	1.51
1	N	355	C	C4'-C3'	5.05	1.58	1.53
1	N	521	G	C3'-C2'	-5.05	1.47	1.52
1	N	1127	G	C3'-C2'	-5.05	1.47	1.52
1	N	1249	C	C2'-O2'	-5.05	1.35	1.41
1	N	1360	A	C6-N6	5.05	1.38	1.33
1	N	1388	C	C3'-C2'	-5.05	1.47	1.52
1	N	354	G	O3'-P	-5.04	1.55	1.61
1	N	614	C	N3-C4	5.04	1.37	1.33
1	N	1077	G	C5'-C4'	5.04	1.57	1.51
1	N	1141	C	C2-N3	-5.04	1.31	1.35
1	N	1248	A	C2'-C1'	-5.04	1.47	1.53
1	N	535	A	C5-C4	5.04	1.42	1.38
1	N	605	U	C4'-C3'	5.04	1.58	1.53
1	N	635	A	C8-N7	5.04	1.35	1.31
1	N	1008	U	P-O5'	-5.04	1.54	1.59
1	N	1482	G	O3'-P	-5.04	1.55	1.61
1	N	767	A	C2'-C1'	-5.04	1.47	1.53
1	N	1202	U	C2'-C1'	-5.04	1.47	1.53
1	N	361	G	N3-C4	-5.04	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	546	A	C2-N3	-5.04	1.29	1.33
1	N	622	A	C5-C4	-5.04	1.35	1.38
1	N	879	C	C2'-C1'	-5.04	1.47	1.53
1	N	275	G	C2-N2	5.04	1.39	1.34
1	N	842	U	O4'-C1'	-5.04	1.35	1.41
1	N	1029	U	C3'-C2'	-5.04	1.47	1.52
1	N	109	A	C5'-C4'	5.03	1.57	1.51
1	N	741	G	P-O5'	-5.03	1.54	1.59
1	N	802	A	C5-C6	-5.03	1.36	1.41
1	N	890	G	N1-C2	5.03	1.41	1.37
1	N	931	C	C2-N3	5.03	1.39	1.35
1	N	354	G	C6-N1	-5.03	1.36	1.39
1	N	494	G	C6-N1	5.03	1.43	1.39
1	N	1117	A	P-O5'	-5.03	1.54	1.59
1	N	79	G	C1'-N9	5.03	1.56	1.48
1	N	249	U	N1-C6	5.03	1.42	1.38
1	N	276	G	C2-N2	5.03	1.39	1.34
1	N	331	G	N9-C4	5.03	1.42	1.38
1	N	189	A	C5'-C4'	5.03	1.57	1.51
1	N	1080	A	N7-C5	5.03	1.42	1.39
1	N	1312	G	N9-C4	-5.03	1.33	1.38
1	N	88	U	N1-C6	-5.03	1.33	1.38
1	N	167	A	C3'-O3'	-5.03	1.35	1.42
1	N	309	A	C3'-C2'	5.03	1.58	1.52
1	N	445	G	N9-C4	5.03	1.42	1.38
1	N	532	A	C6-N1	-5.03	1.32	1.35
1	N	713	G	C5-C6	-5.03	1.37	1.42
1	N	945	G	C6-N1	5.03	1.43	1.39
1	N	1374	A	C2-N3	5.03	1.38	1.33
1	N	1514	G	C2-N3	5.03	1.36	1.32
1	N	90	C	C5'-C4'	5.03	1.57	1.51
1	N	105	G	C6-N1	5.03	1.43	1.39
1	N	325	A	N9-C4	-5.03	1.34	1.37
1	N	623	C	C4'-C3'	5.03	1.58	1.53
1	N	777	A	N9-C4	-5.03	1.34	1.37
1	N	801	U	O3'-P	-5.03	1.55	1.61
1	N	1491	G	N7-C5	-5.03	1.36	1.39
1	N	284	C	C4-N4	5.02	1.38	1.33
1	N	416	G	C2'-C1'	-5.02	1.47	1.53
1	N	566	G	C1'-N9	5.02	1.56	1.48
1	N	2	A	C1'-N9	5.02	1.56	1.48
1	N	415	A	N9-C4	5.02	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	502	A	C5-C4	5.02	1.42	1.38
1	N	631	C	C5'-C4'	5.02	1.57	1.51
1	N	695	A	C5'-C4'	5.02	1.57	1.51
1	N	818	G	C4'-C3'	5.02	1.58	1.53
1	N	916	U	O4'-C1'	5.02	1.48	1.41
1	N	937	A	C5-C4	5.02	1.42	1.38
1	N	617	G	C6-N1	5.02	1.43	1.39
1	N	157	U	C5'-C4'	5.02	1.57	1.51
1	N	755	G	C5-C6	-5.02	1.37	1.42
1	N	951	G	N9-C4	5.02	1.42	1.38
1	N	1440	U	C3'-O3'	5.02	1.49	1.42
1	N	134	G	C5'-C4'	5.02	1.57	1.51
1	N	383	A	N9-C4	-5.02	1.34	1.37
1	N	691	G	C1'-N9	5.02	1.56	1.48
1	N	800	G	O5'-C5'	-5.02	1.34	1.42
1	N	1495	U	C4-O4	-5.02	1.19	1.23
1	N	177	G	C3'-O3'	5.02	1.49	1.42
1	N	814	A	N9-C8	5.02	1.41	1.37
1	N	1025	U	N3-C4	5.02	1.43	1.38
1	N	1252	A	C6-N1	5.02	1.39	1.35
1	N	162	A	C6-N1	5.01	1.39	1.35
1	N	1248	A	N7-C5	-5.01	1.36	1.39
1	N	114	U	P-O5'	-5.01	1.54	1.59
1	N	695	A	C3'-C2'	-5.01	1.47	1.52
1	N	1487	G	N1-C2	5.01	1.41	1.37
1	N	741	G	C5-C4	-5.01	1.34	1.38
1	N	771	G	N7-C5	-5.01	1.36	1.39
1	N	845	A	C3'-C2'	5.01	1.58	1.52
1	N	961	U	C4-C5	-5.01	1.39	1.43
1	N	1331	G	O3'-P	-5.01	1.55	1.61
1	N	1278	G	P-O5'	-5.01	1.54	1.59
1	N	1322	C	C1'-N1	5.01	1.56	1.48
1	N	1334	G	C2-N3	5.01	1.36	1.32
1	N	806	C	C2'-C1'	-5.01	1.47	1.53
1	N	1104	G	N7-C5	-5.01	1.36	1.39
1	N	1110	A	N9-C8	-5.01	1.33	1.37
1	N	237	G	C6-N1	5.01	1.43	1.39
1	N	1489	G	C2-N2	5.01	1.39	1.34
1	N	152	A	C6-N6	5.00	1.38	1.33
1	N	86	G	N9-C8	-5.00	1.34	1.37
1	N	651	C	O4'-C1'	5.00	1.48	1.41
1	N	919	A	C5'-C4'	5.00	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	297	G	C5-C4	5.00	1.41	1.38
1	N	1008	U	O4'-C1'	-5.00	1.35	1.41
1	N	1023	U	C3'-O3'	5.00	1.49	1.42
1	N	1058	G	C2-N3	5.00	1.36	1.32
1	N	1078	U	C2'-C1'	5.00	1.58	1.53

All (9425) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1519	A	N1-C6-N6	26.47	134.48	118.60
1	N	376	G	N1-C6-O6	26.45	135.77	119.90
1	N	832	G	C5-C6-O6	-25.79	113.13	128.60
1	N	722	G	N1-C6-O6	25.48	135.19	119.90
1	N	1261	A	N1-C6-N6	24.80	133.48	118.60
1	N	493	A	N1-C6-N6	24.17	133.10	118.60
1	N	94	G	P-O3'-C3'	24.14	148.67	119.70
1	N	376	G	C5-C6-O6	-23.64	114.42	128.60
1	N	1349	A	N1-C6-N6	23.54	132.73	118.60
1	N	1362	A	P-O3'-C3'	23.52	147.92	119.70
1	N	1499	A	N1-C6-N6	23.25	132.55	118.60
1	N	725	G	N1-C6-O6	22.92	133.65	119.90
1	N	47	C	P-O3'-C3'	22.80	147.06	119.70
1	N	597	G	C5-C6-O6	-22.55	115.07	128.60
1	N	32	A	N1-C6-N6	22.55	132.13	118.60
1	N	81	A	N1-C6-N6	22.48	132.09	118.60
1	N	269	C	N3-C4-C5	-22.45	112.92	121.90
1	N	1088	G	N1-C6-O6	22.43	133.36	119.90
1	N	78	A	N1-C6-N6	22.36	132.01	118.60
1	N	119	A	P-O3'-C3'	22.27	146.43	119.70
1	N	194	C	N3-C4-C5	-22.22	113.01	121.90
1	N	1530	G	P-O3'-C3'	22.10	146.22	119.70
1	N	1219	A	N1-C6-N6	22.04	131.82	118.60
1	N	1015	G	N1-C6-O6	21.93	133.06	119.90
1	N	66	A	N1-C6-N6	21.78	131.67	118.60
1	N	1197	A	N1-C6-N6	21.76	131.66	118.60
1	N	787	A	N1-C6-N6	21.46	131.48	118.60
1	N	1375	A	N1-C6-N6	21.40	131.44	118.60
1	N	484	G	P-O3'-C3'	21.22	145.16	119.70
1	N	881	G	C5-C6-O6	-21.21	115.87	128.60
1	N	270	A	N1-C6-N6	21.07	131.24	118.60
1	N	45	G	N1-C6-O6	21.01	132.51	119.90
1	N	325	A	N1-C6-N6	20.86	131.12	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	236	A	N1-C6-N6	20.83	131.10	118.60
1	N	213	G	C5-C6-O6	-20.83	116.10	128.60
1	N	1201	A	P-O3'-C3'	20.75	144.60	119.70
1	N	130	A	N1-C6-N6	20.69	131.01	118.60
1	N	549	C	C6-N1-C2	20.68	128.57	120.30
1	N	72	A	N1-C6-N6	20.65	130.99	118.60
1	N	300	A	N1-C6-N6	20.65	130.99	118.60
1	N	1157	A	N1-C6-N6	20.57	130.94	118.60
1	N	878	A	N1-C6-N6	20.46	130.88	118.60
1	N	79	G	C5-C6-O6	-20.43	116.34	128.60
1	N	1318	A	N1-C6-N6	20.20	130.72	118.60
1	N	46	G	C5-C6-O6	-20.16	116.50	128.60
1	N	1012	A	N1-C6-N6	20.11	130.67	118.60
1	N	1493	A	N1-C6-N6	19.99	130.59	118.60
1	N	832	G	N1-C6-O6	19.91	131.85	119.90
1	N	255	G	N1-C6-O6	19.91	131.84	119.90
1	N	232	G	N1-C6-O6	19.89	131.83	119.90
1	N	72	A	C5-C6-N6	-19.85	107.82	123.70
1	N	1392	G	N1-C6-O6	19.78	131.77	119.90
1	N	1311	A	N1-C6-N6	19.77	130.46	118.60
1	N	79	G	N1-C6-O6	19.75	131.75	119.90
1	N	1269	A	N1-C6-N6	19.71	130.43	118.60
1	N	438	U	P-O3'-C3'	19.64	143.28	119.70
1	N	1130	A	N1-C6-N6	19.59	130.35	118.60
1	N	1346	A	N1-C6-N6	19.50	130.30	118.60
1	N	711	G	N1-C6-O6	19.42	131.55	119.90
1	N	1020	G	N1-C6-O6	19.40	131.54	119.90
1	N	825	A	N1-C6-N6	19.39	130.24	118.60
1	N	46	G	N1-C6-O6	19.36	131.52	119.90
1	N	1180	A	N1-C6-N6	19.34	130.20	118.60
1	N	494	G	C5-C6-O6	-19.27	117.04	128.60
1	N	1399	C	P-O3'-C3'	19.23	142.78	119.70
1	N	500	G	N1-C6-O6	19.20	131.42	119.90
1	N	535	A	N1-C6-N6	19.18	130.11	118.60
1	N	1042	A	N1-C6-N6	19.17	130.10	118.60
1	N	666	G	N1-C6-O6	19.11	131.37	119.90
1	N	213	G	N1-C6-O6	19.09	131.35	119.90
1	N	559	A	N1-C6-N6	19.02	130.01	118.60
1	N	494	G	N1-C6-O6	18.95	131.27	119.90
1	N	600	A	N1-C6-N6	18.88	129.93	118.60
1	N	1088	G	C5-C6-O6	-18.88	117.27	128.60
1	N	695	A	C5-C6-N1	-18.83	108.29	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	776	G	C5-C6-O6	-18.82	117.31	128.60
1	N	511	C	P-O3'-C3'	18.78	142.23	119.70
1	N	729	A	N1-C6-N6	18.70	129.82	118.60
1	N	1204	A	N1-C6-N6	18.65	129.79	118.60
1	N	1306	A	N1-C6-N6	18.59	129.75	118.60
1	N	812	G	N1-C6-O6	18.59	131.05	119.90
1	N	976	G	N1-C6-O6	18.56	131.04	119.90
1	N	233	C	C6-N1-C2	-18.54	112.89	120.30
1	N	902	G	N1-C6-O6	18.45	130.97	119.90
1	N	1292	G	N1-C6-O6	18.44	130.97	119.90
1	N	749	A	N1-C6-N6	18.44	129.66	118.60
1	N	547	A	P-O3'-C3'	18.31	141.68	119.70
1	N	676	A	N1-C6-N6	18.31	129.59	118.60
1	N	695	A	N1-C6-N6	18.30	129.58	118.60
1	N	1105	A	N1-C6-N6	18.27	129.56	118.60
1	N	1080	A	N1-C6-N6	18.22	129.53	118.60
1	N	1513	A	N1-C6-N6	18.19	129.52	118.60
1	N	1398	A	N1-C6-N6	18.18	129.51	118.60
1	N	885	G	C5-N7-C8	18.16	113.38	104.30
1	N	1483	A	N1-C6-N6	18.12	129.47	118.60
1	N	722	G	C5-C6-O6	-18.01	117.79	128.60
1	N	210	C	P-O3'-C3'	17.95	141.25	119.70
1	N	953	G	N1-C6-O6	17.94	130.67	119.90
1	N	778	G	N1-C6-O6	17.94	130.66	119.90
1	N	963	G	N1-C6-O6	17.90	130.64	119.90
1	N	885	G	N1-C6-O6	17.89	130.63	119.90
1	N	488	C	N3-C4-C5	-17.87	114.75	121.90
1	N	786	G	N1-C6-O6	17.87	130.62	119.90
1	N	868	C	C6-N1-C2	-17.86	113.16	120.30
1	N	120	A	N1-C6-N6	17.84	129.30	118.60
1	N	1261	A	C5-C6-N6	-17.82	109.44	123.70
1	N	128	G	N1-C6-O6	17.80	130.58	119.90
1	N	682	G	C5-C6-O6	-17.79	117.93	128.60
1	N	1415	G	N1-C6-O6	17.77	130.56	119.90
1	N	43	C	N3-C4-C5	-17.76	114.80	121.90
1	N	1438	G	N1-C6-O6	17.75	130.55	119.90
1	N	260	G	N1-C6-O6	17.70	130.52	119.90
1	N	1465	A	N1-C6-N6	17.68	129.21	118.60
1	N	346	G	C5-C6-O6	-17.68	117.99	128.60
1	N	182	A	N1-C6-N6	17.68	129.21	118.60
1	N	1422	G	C5-C6-O6	-17.67	118.00	128.60
1	N	499	A	N1-C6-N6	17.64	129.18	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	42	G	N1-C6-O6	17.63	130.48	119.90
1	N	1275	A	C4-C5-C6	17.60	125.80	117.00
1	N	350	G	N1-C6-O6	17.57	130.44	119.90
1	N	1015	G	C5-C6-O6	-17.57	118.06	128.60
1	N	393	A	N1-C6-N6	17.56	129.13	118.60
1	N	845	A	C8-N9-C4	-17.56	98.78	105.80
1	N	384	G	N1-C2-N3	-17.53	113.38	123.90
1	N	698	G	C5-C6-O6	-17.52	118.09	128.60
1	N	1437	A	N1-C6-N6	17.49	129.09	118.60
1	N	386	C	N3-C4-C5	-17.41	114.94	121.90
1	N	1457	G	C5-C6-N1	-17.40	102.80	111.50
1	N	1337	G	N1-C6-O6	17.37	130.32	119.90
1	N	117	G	C5-C6-O6	-17.36	118.18	128.60
1	N	555	U	P-O3'-C3'	17.36	140.53	119.70
1	N	1139	G	N1-C6-O6	17.30	130.28	119.90
1	N	117	G	N1-C6-O6	17.28	130.27	119.90
1	N	1426	G	C5-C6-O6	-17.27	118.24	128.60
1	N	1331	G	P-O3'-C3'	17.27	140.42	119.70
1	N	106	C	N3-C4-C5	-17.26	115.00	121.90
1	N	840	C	C6-N1-C2	-17.26	113.39	120.30
1	N	6	G	C4-C5-N7	17.24	117.70	110.80
1	N	10	A	N1-C6-N6	17.24	128.95	118.60
1	N	816	A	N1-C6-N6	17.23	128.94	118.60
1	N	313	A	C4-C5-C6	17.20	125.60	117.00
1	N	443	C	O4'-C1'-N1	17.19	121.95	108.20
1	N	478	A	N1-C6-N6	17.18	128.91	118.60
1	N	527	G	N1-C6-O6	17.18	130.21	119.90
1	N	510	A	N1-C6-N6	17.16	128.89	118.60
1	N	1456	A	N1-C6-N6	17.15	128.89	118.60
1	N	381	C	C6-N1-C2	-17.14	113.44	120.30
1	N	711	G	C5-C6-O6	-17.13	118.32	128.60
1	N	217	C	N3-C4-C5	-17.13	115.05	121.90
1	N	356	A	N1-C6-N6	17.12	128.87	118.60
1	N	942	G	N1-C6-O6	17.11	130.17	119.90
1	N	303	A	C8-N9-C4	-17.09	98.96	105.80
1	N	773	G	N1-C6-O6	17.07	130.15	119.90
1	N	597	G	N1-C6-O6	17.06	130.14	119.90
1	N	3	A	N1-C6-N6	17.03	128.82	118.60
1	N	338	A	N1-C6-N6	17.00	128.80	118.60
1	N	1215	G	N1-C6-O6	16.97	130.08	119.90
1	N	289	G	N1-C6-O6	16.93	130.06	119.90
1	N	250	A	N1-C6-N6	16.89	128.74	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1368	A	N1-C6-N6	16.86	128.71	118.60
1	N	885	G	C4-C5-N7	-16.85	104.06	110.80
1	N	1101	A	N1-C6-N6	16.84	128.71	118.60
1	N	1176	A	N1-C6-N6	16.84	128.70	118.60
1	N	982	U	P-O3'-C3'	16.82	139.89	119.70
1	N	615	G	C5-C6-O6	-16.82	118.51	128.60
1	N	906	A	N1-C6-N6	16.78	128.67	118.60
1	N	1022	A	N1-C6-N6	16.78	128.67	118.60
1	N	845	A	N1-C6-N6	16.77	128.66	118.60
1	N	1410	A	N1-C6-N6	16.76	128.66	118.60
1	N	466	A	N1-C6-N6	16.74	128.65	118.60
1	N	240	G	N1-C6-O6	16.73	129.94	119.90
1	N	360	G	N1-C6-O6	16.73	129.94	119.90
1	N	1044	A	N1-C6-N6	16.72	128.63	118.60
1	N	976	G	C5-C6-N1	-16.71	103.14	111.50
1	N	1275	A	C5-C6-N1	-16.68	109.36	117.70
1	N	1150	A	N1-C6-N6	16.67	128.60	118.60
1	N	198	G	O4'-C1'-N9	16.66	121.53	108.20
1	N	448	A	N1-C6-N6	16.66	128.59	118.60
1	N	1186	G	N1-C6-O6	16.64	129.88	119.90
1	N	198	G	N1-C6-O6	16.61	129.87	119.90
1	N	668	G	N1-C6-O6	16.60	129.86	119.90
1	N	1105	A	C5-C6-N1	-16.59	109.41	117.70
1	N	1405	G	C5-C6-O6	-16.58	118.65	128.60
1	N	131	A	N1-C6-N6	16.57	128.54	118.60
1	N	258	G	C5-C6-O6	-16.57	118.66	128.60
1	N	1336	C	C6-N1-C2	16.52	126.91	120.30
1	N	33	A	N1-C6-N6	16.51	128.51	118.60
1	N	110	C	N3-C4-C5	-16.51	115.30	121.90
1	N	211	G	N1-C6-O6	16.49	129.79	119.90
1	N	1032	G	N1-C6-O6	16.48	129.79	119.90
1	N	474	G	N1-C6-O6	16.47	129.78	119.90
1	N	73	C	C6-N1-C2	-16.47	113.71	120.30
1	N	60	A	N1-C6-N6	16.44	128.47	118.60
1	N	919	A	N1-C6-N6	16.44	128.47	118.60
1	N	991	U	P-O3'-C3'	16.43	139.42	119.70
1	N	650	G	N1-C6-O6	16.42	129.75	119.90
1	N	1022	A	C5-C6-N1	-16.37	109.51	117.70
1	N	1423	G	N1-C6-O6	16.37	129.72	119.90
1	N	1174	G	O4'-C1'-N9	16.36	121.29	108.20
1	N	667	G	N1-C6-O6	16.34	129.70	119.90
1	N	768	A	N1-C6-N6	16.33	128.40	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	669	G	O4'-C1'-N9	16.31	121.25	108.20
1	N	715	A	N1-C6-N6	16.31	128.38	118.60
1	N	596	A	N1-C6-N6	16.31	128.38	118.60
1	N	1254	A	N1-C6-N6	16.27	128.37	118.60
1	N	1016	A	N1-C6-N6	16.25	128.35	118.60
1	N	913	A	P-O3'-C3'	16.16	139.10	119.70
1	N	1178	G	C8-N9-C4	-16.16	99.94	106.40
1	N	958	A	N1-C6-N6	16.16	128.30	118.60
1	N	821	G	C5-C6-O6	-16.15	118.91	128.60
1	N	350	G	C5-C6-O6	-16.13	118.92	128.60
1	N	829	G	N3-C2-N2	16.13	131.19	119.90
1	N	865	A	N1-C6-N6	16.12	128.28	118.60
1	N	1271	A	N1-C6-N6	16.11	128.27	118.60
1	N	1127	G	C5-C6-O6	-16.11	118.94	128.60
1	N	371	A	N1-C6-N6	16.10	128.26	118.60
1	N	1000	A	N1-C6-N6	16.08	128.25	118.60
1	N	615	G	N1-C6-O6	16.06	129.53	119.90
1	N	1218	C	N3-C4-C5	-16.05	115.48	121.90
1	N	1215	G	C5-C6-O6	-16.05	118.97	128.60
1	N	146	G	N1-C6-O6	16.02	129.51	119.90
1	N	608	A	N1-C6-N6	16.00	128.20	118.60
1	N	1446	A	N1-C6-N6	16.00	128.20	118.60
1	N	765	G	C5-C6-O6	-15.99	119.01	128.60
1	N	1020	G	C5-C6-O6	-15.97	119.02	128.60
1	N	1145	A	N1-C2-N3	15.96	137.28	129.30
1	N	712	A	N1-C6-N6	15.95	128.17	118.60
1	N	861	G	C5-C6-O6	-15.95	119.03	128.60
1	N	1032	G	C5-C6-O6	-15.92	119.05	128.60
1	N	175	C	O4'-C1'-N1	15.91	120.93	108.20
1	N	776	G	N1-C6-O6	15.90	129.44	119.90
1	N	108	G	P-O3'-C3'	15.86	138.73	119.70
1	N	919	A	C5-C6-N1	-15.83	109.78	117.70
1	N	817	C	P-O3'-C3'	15.83	138.69	119.70
1	N	151	A	C4-C5-C6	15.82	124.91	117.00
1	N	761	G	N1-C6-O6	15.80	129.38	119.90
1	N	467	U	O4'-C1'-N1	15.79	120.83	108.20
1	N	667	G	C5-C6-O6	-15.77	119.14	128.60
1	N	1041	G	N1-C6-O6	15.76	129.35	119.90
1	N	324	G	N1-C6-O6	15.75	129.35	119.90
1	N	607	A	N1-C6-N6	15.75	128.05	118.60
1	N	184	G	P-O5'-C5'	15.74	146.09	120.90
1	N	1014	A	N1-C6-N6	15.74	128.04	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	555	U	C5-C6-N1	15.73	130.56	122.70
1	N	120	A	O4'-C1'-N9	15.72	120.78	108.20
1	N	1242	G	P-O5'-C5'	15.71	146.03	120.90
1	N	104	G	C5-C6-O6	-15.70	119.18	128.60
1	N	1422	G	N1-C6-O6	15.63	129.28	119.90
1	N	1392	G	C5-C6-O6	-15.63	119.22	128.60
1	N	1099	G	N3-C2-N2	15.59	130.81	119.90
1	N	81	A	C5-C6-N1	-15.57	109.92	117.70
1	N	1226	C	P-O3'-C3'	15.56	138.38	119.70
1	N	1337	G	C5-C6-O6	-15.56	119.26	128.60
1	N	1153	G	N1-C6-O6	15.56	129.24	119.90
1	N	138	G	N1-C6-O6	15.53	129.22	119.90
1	N	289	G	C5-C6-O6	-15.53	119.28	128.60
1	N	1229	A	C8-N9-C4	15.53	112.01	105.80
1	N	494	G	C4-C5-N7	15.53	117.01	110.80
1	N	222	C	O4'-C1'-N1	15.53	120.62	108.20
1	N	797	C	N3-C4-C5	-15.52	115.69	121.90
1	N	656	G	O4'-C1'-N9	15.52	120.61	108.20
1	N	410	G	C5-C6-O6	-15.51	119.29	128.60
1	N	935	A	N1-C6-N6	15.50	127.90	118.60
1	N	1250	A	N1-C6-N6	15.49	127.90	118.60
1	N	1334	G	N3-C2-N2	15.47	130.73	119.90
1	N	592	G	C5-C6-O6	-15.45	119.33	128.60
1	N	266	G	N1-C6-O6	15.45	129.17	119.90
1	N	515	G	C4-C5-N7	15.44	116.97	110.80
1	N	1219	A	C5-C6-N1	-15.44	109.98	117.70
1	N	257	G	C5-C6-O6	-15.43	119.34	128.60
1	N	896	C	O4'-C1'-N1	15.41	120.53	108.20
1	N	546	A	N1-C6-N6	15.40	127.84	118.60
1	N	67	C	N3-C4-C5	-15.40	115.74	121.90
1	N	299	G	N1-C6-O6	15.38	129.12	119.90
1	N	1500	A	N1-C6-N6	15.37	127.82	118.60
1	N	777	A	N1-C6-N6	15.37	127.82	118.60
1	N	833	G	N9-C4-C5	-15.37	99.25	105.40
1	N	1218	C	C6-N1-C2	-15.36	114.15	120.30
1	N	366	A	N1-C6-N6	15.35	127.81	118.60
1	N	1373	G	N1-C6-O6	15.35	129.11	119.90
1	N	82	G	C5-C6-O6	-15.34	119.40	128.60
1	N	515	G	C5-C6-O6	-15.33	119.40	128.60
1	N	1026	G	N1-C6-O6	15.32	129.09	119.90
1	N	1174	G	N1-C6-O6	15.31	129.09	119.90
1	N	861	G	N1-C6-O6	15.31	129.08	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	267	C	N3-C4-C5	-15.30	115.78	121.90
1	N	87	C	O4'-C1'-N1	15.29	120.43	108.20
1	N	886	G	C5-C6-O6	-15.26	119.45	128.60
1	N	1279	G	C5-C6-O6	-15.24	119.45	128.60
1	N	519	C	O4'-C1'-N1	15.24	120.39	108.20
1	N	938	A	N1-C6-N6	15.21	127.72	118.60
1	N	1179	A	N1-C6-N6	15.20	127.72	118.60
1	N	1287	A	N1-C6-N6	15.20	127.72	118.60
1	N	939	G	C5-C6-O6	-15.19	119.48	128.60
1	N	716	A	N1-C6-N6	15.18	127.71	118.60
1	N	168	G	N1-C6-O6	15.17	129.00	119.90
1	N	765	G	N1-C6-O6	15.16	129.00	119.90
1	N	179	A	N1-C6-N6	15.15	127.69	118.60
1	N	78	A	C5-C6-N6	-15.14	111.59	123.70
1	N	327	A	N1-C6-N6	15.13	127.68	118.60
1	N	373	A	N1-C6-N6	15.11	127.67	118.60
1	N	525	C	C6-N1-C2	-15.10	114.26	120.30
1	N	468	A	N1-C6-N6	15.08	127.65	118.60
1	N	50	A	N1-C6-N6	15.07	127.64	118.60
1	N	562	U	O4'-C1'-N1	15.06	120.25	108.20
1	N	704	A	N1-C6-N6	15.06	127.64	118.60
1	N	881	G	N1-C6-O6	15.06	128.94	119.90
1	N	1480	A	N1-C6-N6	15.06	127.63	118.60
1	N	177	G	N1-C6-O6	15.05	128.93	119.90
1	N	1144	G	N1-C6-O6	15.04	128.93	119.90
1	N	821	G	N1-C6-O6	15.04	128.92	119.90
1	N	354	G	C5-C6-O6	-15.03	119.58	128.60
1	N	282	A	N1-C2-N3	15.03	136.82	129.30
1	N	1461	G	N1-C6-O6	15.03	128.92	119.90
1	N	1190	G	N1-C6-O6	15.03	128.92	119.90
1	N	1416	G	N1-C6-O6	15.03	128.92	119.90
1	N	360	G	C5-C6-O6	-15.01	119.59	128.60
1	N	1285	A	P-O3'-C3'	15.00	137.70	119.70
1	N	786	G	C5-C6-O6	-14.97	119.62	128.60
1	N	953	G	C5-C6-O6	-14.97	119.62	128.60
1	N	1507	A	N1-C6-N6	14.96	127.58	118.60
1	N	1033	G	N1-C6-O6	14.96	128.88	119.90
1	N	579	A	N1-C6-N6	14.96	127.58	118.60
1	N	1340	A	N1-C6-N6	14.95	127.57	118.60
1	N	207	C	C6-N1-C2	-14.95	114.32	120.30
1	N	665	A	N1-C6-N6	14.95	127.57	118.60
1	N	755	G	O4'-C1'-N9	14.95	120.16	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	143	A	N1-C2-N3	14.94	136.77	129.30
1	N	517	G	N1-C6-O6	14.93	128.86	119.90
1	N	1229	A	N9-C4-C5	-14.93	99.83	105.80
1	N	1371	G	N1-C6-O6	14.92	128.85	119.90
1	N	1396	A	N1-C6-N6	14.92	127.55	118.60
1	N	1192	C	C5-C4-N4	-14.90	109.77	120.20
1	N	499	A	C4-C5-C6	14.89	124.45	117.00
1	N	1360	A	N1-C6-N6	14.89	127.54	118.60
1	N	8	A	N1-C6-N6	14.89	127.53	118.60
1	N	728	A	N1-C6-N6	14.87	127.52	118.60
1	N	923	A	C8-N9-C4	-14.86	99.86	105.80
1	N	580	C	N3-C4-N4	14.86	128.40	118.00
1	N	652	U	O4'-C1'-N1	14.86	120.08	108.20
1	N	810	C	C6-N1-C2	-14.83	114.37	120.30
1	N	973	G	N1-C6-O6	14.83	128.80	119.90
1	N	872	A	N1-C6-N6	14.82	127.49	118.60
1	N	280	C	C6-N1-C2	-14.80	114.38	120.30
1	N	1257	A	N1-C6-N6	14.79	127.47	118.60
1	N	712	A	N9-C4-C5	-14.76	99.90	105.80
1	N	44	A	N1-C2-N3	14.76	136.68	129.30
1	N	115	G	C5-C6-O6	-14.75	119.75	128.60
1	N	1036	A	N9-C4-C5	14.74	111.70	105.80
1	N	110	C	N3-C4-N4	14.73	128.31	118.00
1	N	931	C	O4'-C1'-N1	14.72	119.97	108.20
1	N	1037	C	P-O3'-C3'	14.72	137.36	119.70
1	N	746	A	N1-C6-N6	14.70	127.42	118.60
1	N	505	G	C5-C6-O6	-14.69	119.79	128.60
1	N	288	A	N1-C6-N6	14.68	127.41	118.60
1	N	597	G	N3-C2-N2	14.68	130.18	119.90
1	N	1231	G	N1-C6-O6	14.67	128.70	119.90
1	N	1278	G	C2-N3-C4	14.67	119.23	111.90
1	N	57	G	N1-C6-O6	14.66	128.70	119.90
1	N	230	G	N1-C6-O6	14.65	128.69	119.90
1	N	515	G	N1-C6-O6	14.64	128.69	119.90
1	N	53	A	N1-C6-N6	14.58	127.35	118.60
1	N	1241	G	N1-C6-O6	14.57	128.64	119.90
1	N	11	G	C5-C6-N1	-14.53	104.23	111.50
1	N	977	A	N1-C6-N6	14.52	127.31	118.60
1	N	747	A	N1-C6-N6	14.51	127.31	118.60
1	N	698	G	C8-N9-C4	-14.50	100.60	106.40
1	N	1005	A	N1-C6-N6	14.50	127.30	118.60
1	N	151	A	N1-C6-N6	14.47	127.28	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1084	G	C5-C6-O6	-14.45	119.93	128.60
1	N	923	A	C4-C5-C6	14.43	124.22	117.00
1	N	500	G	C5-C6-O6	-14.41	119.95	128.60
1	N	648	A	N1-C6-N6	14.39	127.24	118.60
1	N	787	A	C5-C6-N1	-14.38	110.51	117.70
1	N	559	A	P-O3'-C3'	14.37	136.95	119.70
1	N	130	A	C5-C6-N1	-14.37	110.52	117.70
1	N	397	A	N1-C6-N6	14.36	127.22	118.60
1	N	274	A	N1-C6-N6	14.36	127.21	118.60
1	N	1108	G	N9-C4-C5	14.36	111.14	105.40
1	N	985	C	O4'-C1'-N1	14.34	119.67	108.20
1	N	346	G	N1-C6-O6	14.34	128.50	119.90
1	N	1516	G	N1-C6-O6	14.34	128.50	119.90
1	N	278	G	N1-C6-O6	14.32	128.49	119.90
1	N	1260	G	N1-C6-O6	14.32	128.49	119.90
1	N	70	U	C6-N1-C2	-14.30	112.42	121.00
1	N	1166	G	N1-C6-O6	14.30	128.48	119.90
1	N	1342	C	O4'-C1'-N1	14.30	119.64	108.20
1	N	309	A	N1-C6-N6	14.29	127.17	118.60
1	N	538	G	C5-C6-O6	-14.28	120.03	128.60
1	N	1202	U	O4'-C1'-N1	14.28	119.63	108.20
1	N	869	G	N1-C6-O6	14.27	128.46	119.90
1	N	1236	A	N1-C6-N6	14.27	127.16	118.60
1	N	109	A	P-O3'-C3'	14.27	136.82	119.70
1	N	939	G	N1-C6-O6	14.27	128.46	119.90
1	N	1323	G	O4'-C1'-N9	14.26	119.61	108.20
1	N	732	C	N3-C4-C5	-14.25	116.20	121.90
1	N	675	A	N1-C6-N6	14.24	127.15	118.60
1	N	1157	A	C5-C6-N6	-14.24	112.31	123.70
1	N	654	G	C5-C6-O6	-14.24	120.06	128.60
1	N	172	A	P-O3'-C3'	14.23	136.78	119.70
1	N	282	A	C4-C5-C6	14.21	124.10	117.00
1	N	1174	G	C5-C6-O6	-14.20	120.08	128.60
1	N	926	G	P-O3'-C3'	14.19	136.73	119.70
1	N	1346	A	C5-C6-N1	-14.19	110.61	117.70
1	N	734	G	N1-C6-O6	14.17	128.40	119.90
1	N	700	G	O4'-C1'-N9	14.16	119.53	108.20
1	N	425	G	N1-C6-O6	14.16	128.40	119.90
1	N	949	A	N1-C6-N6	14.16	127.09	118.60
1	N	194	C	C2-N3-C4	14.15	126.97	119.90
1	N	1139	G	C5-C6-O6	-14.14	120.11	128.60
1	N	240	G	C5-C6-O6	-14.12	120.13	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	539	A	N1-C6-N6	14.11	127.06	118.60
1	N	630	A	N1-C6-N6	14.11	127.06	118.60
1	N	1362	A	N1-C6-N6	14.09	127.06	118.60
1	N	560	A	N1-C6-N6	14.09	127.05	118.60
1	N	168	G	C5-C6-O6	-14.09	120.15	128.60
1	N	115	G	P-O3'-C3'	14.08	136.60	119.70
1	N	181	A	P-O3'-C3'	14.06	136.57	119.70
1	N	321	A	N1-C6-N6	14.05	127.03	118.60
1	N	616	G	O4'-C1'-N9	14.04	119.44	108.20
1	N	455	G	N1-C6-O6	14.04	128.32	119.90
1	N	766	A	O4'-C1'-N9	14.03	119.42	108.20
1	N	1216	A	N1-C6-N6	14.03	127.02	118.60
1	N	487	A	N1-C6-N6	14.02	127.01	118.60
1	N	1361	G	N1-C6-O6	14.01	128.30	119.90
1	N	73	C	O4'-C1'-N1	13.98	119.39	108.20
1	N	497	G	C5-C6-O6	-13.98	120.21	128.60
1	N	538	G	N1-C6-O6	13.98	128.29	119.90
1	N	532	A	P-O3'-C3'	13.97	136.47	119.70
1	N	580	C	N3-C4-C5	-13.97	116.31	121.90
1	N	325	A	C5-C6-N6	-13.96	112.53	123.70
1	N	1503	A	N1-C6-N6	13.96	126.97	118.60
1	N	719	C	C5-C4-N4	-13.96	110.43	120.20
1	N	830	G	C5-C6-O6	-13.95	120.23	128.60
1	N	1275	A	N1-C6-N6	13.95	126.97	118.60
1	N	890	G	N1-C6-O6	13.94	128.27	119.90
1	N	1197	A	C5-C6-N6	-13.94	112.55	123.70
1	N	860	A	N1-C6-N6	13.94	126.96	118.60
1	N	1323	G	N1-C6-O6	13.94	128.26	119.90
1	N	1493	A	N9-C4-C5	13.94	111.38	105.80
1	N	26	A	N1-C6-N6	13.93	126.96	118.60
1	N	846	G	N1-C6-O6	13.93	128.26	119.90
1	N	1099	G	N1-C2-N3	-13.92	115.55	123.90
1	N	532	A	C2-N3-C4	-13.91	103.64	110.60
1	N	824	G	N1-C6-O6	13.91	128.25	119.90
1	N	314	C	O4'-C1'-N1	13.91	119.33	108.20
1	N	1152	A	N1-C6-N6	13.90	126.94	118.60
1	N	1457	G	N1-C6-O6	13.89	128.23	119.90
1	N	410	G	N1-C6-O6	13.87	128.22	119.90
1	N	462	G	N1-C6-O6	13.87	128.22	119.90
1	N	425	G	C5-C6-O6	-13.87	120.28	128.60
1	N	1105	A	C6-N1-C2	13.86	126.92	118.60
1	N	312	C	N3-C4-C5	-13.85	116.36	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1342	C	N3-C4-C5	-13.85	116.36	121.90
1	N	1141	C	N3-C4-N4	13.85	127.69	118.00
1	N	812	G	C5-C6-O6	-13.84	120.30	128.60
1	N	116	A	N1-C6-N6	13.82	126.89	118.60
1	N	1190	G	C5-C6-O6	-13.82	120.31	128.60
1	N	934	C	P-O3'-C3'	13.82	136.28	119.70
1	N	1284	C	N3-C4-N4	13.82	127.67	118.00
1	N	1517	G	C5-C6-N1	-13.82	104.59	111.50
1	N	1091	U	P-O3'-C3'	13.81	136.28	119.70
1	N	162	A	N1-C6-N6	13.80	126.88	118.60
1	N	969	A	C4-C5-C6	13.80	123.90	117.00
1	N	1355	G	N1-C6-O6	13.80	128.18	119.90
1	N	15	G	N9-C4-C5	-13.80	99.88	105.40
1	N	1415	G	C5-C6-O6	-13.79	120.33	128.60
1	N	845	A	P-O3'-C3'	13.79	136.24	119.70
1	N	69	G	N1-C6-O6	13.78	128.17	119.90
1	N	1081	A	N1-C6-N6	13.78	126.87	118.60
1	N	682	G	N1-C6-O6	13.77	128.16	119.90
1	N	733	G	C6-C5-N7	-13.77	122.14	130.40
1	N	15	G	N1-C6-O6	13.76	128.15	119.90
1	N	544	G	N7-C8-N9	13.76	119.98	113.10
1	N	776	G	P-O5'-C5'	13.75	142.90	120.90
1	N	223	A	N1-C6-N6	13.74	126.85	118.60
1	N	71	A	N1-C6-N6	13.74	126.84	118.60
1	N	1270	G	C4-C5-N7	13.73	116.29	110.80
1	N	488	C	N3-C4-N4	13.71	127.60	118.00
1	N	1371	G	C5-C6-O6	-13.71	120.37	128.60
1	N	315	A	N1-C6-N6	13.71	126.82	118.60
1	N	753	A	N1-C6-N6	13.71	126.83	118.60
1	N	299	G	C5-C6-O6	-13.71	120.38	128.60
1	N	1036	A	N1-C6-N6	13.70	126.82	118.60
1	N	851	G	C5-C6-O6	-13.69	120.39	128.60
1	N	1204	A	C5-C6-N1	-13.69	110.86	117.70
1	N	1521	C	N3-C4-C5	-13.69	116.43	121.90
1	N	1031	C	N3-C4-C5	-13.68	116.43	121.90
1	N	232	G	C5-C6-O6	-13.67	120.40	128.60
1	N	513	C	N3-C4-C5	-13.67	116.43	121.90
1	N	1514	G	C5-C6-O6	-13.67	120.40	128.60
1	N	93	U	O4'-C1'-N1	13.66	119.13	108.20
1	N	1324	A	N1-C6-N6	13.66	126.80	118.60
1	N	1534	A	C8-N9-C4	-13.66	100.34	105.80
1	N	499	A	P-O3'-C3'	13.65	136.09	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1434	A	N1-C6-N6	13.65	126.79	118.60
1	N	1059	C	O4'-C1'-N1	13.64	119.11	108.20
1	N	831	A	N1-C6-N6	13.64	126.78	118.60
1	N	1461	G	C5-C6-O6	-13.64	120.42	128.60
1	N	948	C	N3-C4-N4	13.63	127.54	118.00
1	N	366	A	P-O3'-C3'	13.63	136.06	119.70
1	N	1523	G	N1-C6-O6	13.62	128.07	119.90
1	N	721	G	P-O3'-C3'	13.62	136.04	119.70
1	N	947	G	N7-C8-N9	-13.61	106.29	113.10
1	N	266	G	C5-C6-O6	-13.61	120.43	128.60
1	N	6	G	C6-C5-N7	-13.61	122.23	130.40
1	N	456	A	N1-C6-N6	13.60	126.76	118.60
1	N	750	C	N3-C4-N4	13.60	127.52	118.00
1	N	737	C	O4'-C1'-N1	13.59	119.07	108.20
1	N	393	A	N1-C2-N3	13.59	136.09	129.30
1	N	885	G	N7-C8-N9	-13.58	106.31	113.10
1	N	595	A	N1-C6-N6	13.57	126.74	118.60
1	N	145	G	C5-C6-O6	-13.57	120.46	128.60
1	N	197	A	O4'-C1'-N9	13.56	119.05	108.20
1	N	1059	C	N3-C4-C5	-13.56	116.48	121.90
1	N	115	G	N1-C6-O6	13.55	128.03	119.90
1	N	1336	C	O4'-C1'-N1	13.55	119.04	108.20
1	N	1274	A	N1-C2-N3	-13.54	122.53	129.30
1	N	535	A	P-O3'-C3'	13.52	135.92	119.70
1	N	779	C	C6-N1-C2	-13.51	114.89	120.30
1	N	1423	G	C5-C6-O6	-13.51	120.50	128.60
1	N	1405	G	C2-N3-C4	13.50	118.65	111.90
1	N	577	G	N1-C6-O6	13.50	128.00	119.90
1	N	1533	C	O4'-C1'-N1	13.50	119.00	108.20
1	N	536	C	O4'-C1'-N1	13.49	118.99	108.20
1	N	731	G	C5-C6-O6	-13.48	120.51	128.60
1	N	395	C	N3-C4-N4	13.48	127.43	118.00
1	N	1350	A	N1-C6-N6	13.48	126.69	118.60
1	N	706	A	N1-C6-N6	13.47	126.68	118.60
1	N	539	A	C4-C5-C6	13.46	123.73	117.00
1	N	1490	U	O4'-C1'-N1	13.46	118.96	108.20
1	N	1332	A	N1-C6-N6	13.45	126.67	118.60
1	N	1270	G	C8-N9-C4	-13.44	101.02	106.40
1	N	1024	G	C8-N9-C4	-13.44	101.02	106.40
1	N	1188	A	N1-C6-N6	13.44	126.66	118.60
1	N	99	C	O4'-C1'-N1	13.43	118.94	108.20
1	N	1000	A	C8-N9-C4	-13.43	100.43	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1368	A	C5-C6-N1	-13.42	110.99	117.70
1	N	220	G	C8-N9-C4	-13.42	101.03	106.40
1	N	1075	U	O4'-C1'-N1	13.42	118.93	108.20
1	N	851	G	N1-C6-O6	13.41	127.95	119.90
1	N	984	C	N3-C4-C5	-13.40	116.54	121.90
1	N	353	A	N1-C6-N6	13.38	126.63	118.60
1	N	890	G	C5-C6-O6	-13.38	120.57	128.60
1	N	270	A	C5-C6-N1	-13.38	111.01	117.70
1	N	1367	C	C5-C6-N1	13.38	127.69	121.00
1	N	136	C	N3-C4-C5	-13.38	116.55	121.90
1	N	1206	G	N1-C6-O6	13.38	127.92	119.90
1	N	649	A	N1-C6-N6	13.37	126.62	118.60
1	N	559	A	C5-C6-N6	-13.36	113.01	123.70
1	N	1074	G	N1-C2-N3	-13.36	115.89	123.90
1	N	1447	A	N1-C6-N6	13.36	126.61	118.60
1	N	104	G	N1-C6-O6	13.35	127.91	119.90
1	N	702	A	P-O3'-C3'	13.35	135.72	119.70
1	N	1458	G	N1-C6-O6	13.35	127.91	119.90
1	N	1292	G	C5-C6-O6	-13.35	120.59	128.60
1	N	1386	G	N1-C6-O6	13.35	127.91	119.90
1	N	721	G	O4'-C1'-N9	13.34	118.87	108.20
1	N	1074	G	N1-C6-O6	13.34	127.90	119.90
1	N	389	A	N1-C6-N6	13.31	126.59	118.60
1	N	1067	A	O4'-C1'-N9	13.31	118.85	108.20
1	N	1519	A	C5-C6-N6	-13.31	113.05	123.70
1	N	223	A	O4'-C1'-N9	13.30	118.84	108.20
1	N	395	C	C5-C4-N4	-13.28	110.90	120.20
1	N	588	G	N1-C6-O6	13.28	127.86	119.90
1	N	891	U	O4'-C1'-N1	13.27	118.81	108.20
1	N	1347	G	N3-C2-N2	13.26	129.18	119.90
1	N	23	C	N3-C4-C5	-13.25	116.60	121.90
1	N	698	G	N1-C6-O6	13.25	127.85	119.90
1	N	1499	A	C5-C6-N6	-13.24	113.11	123.70
1	N	829	G	N1-C6-O6	13.24	127.84	119.90
1	N	600	A	C8-N9-C4	-13.24	100.51	105.80
1	N	1269	A	O4'-C1'-N9	13.23	118.78	108.20
1	N	28	A	C5-C6-N1	-13.22	111.09	117.70
1	N	1375	A	C5-C6-N6	-13.22	113.13	123.70
1	N	228	A	C4-C5-C6	13.21	123.61	117.00
1	N	1419	G	N1-C6-O6	13.21	127.83	119.90
1	N	649	A	C4-C5-C6	13.21	123.60	117.00
1	N	313	A	N1-C6-N6	13.21	126.52	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1377	A	N1-C6-N6	13.20	126.52	118.60
1	N	258	G	N1-C6-O6	13.20	127.82	119.90
1	N	1001	C	N3-C4-N4	13.19	127.24	118.00
1	N	82	G	N1-C6-O6	13.18	127.81	119.90
1	N	153	C	C6-N1-C2	-13.18	115.03	120.30
1	N	889	A	C4-C5-C6	13.16	123.58	117.00
1	N	1027	C	C5-C4-N4	-13.16	110.99	120.20
1	N	290	C	N3-C4-N4	13.16	127.21	118.00
1	N	274	A	C5-C6-N1	-13.15	111.13	117.70
1	N	874	G	C5-C6-O6	-13.15	120.71	128.60
1	N	1113	C	O4'-C1'-N1	13.15	118.72	108.20
1	N	1428	A	N1-C6-N6	13.13	126.48	118.60
1	N	1168	U	P-O3'-C3'	13.13	135.45	119.70
1	N	1269	A	C8-N9-C4	-13.11	100.56	105.80
1	N	1355	G	C5-C6-O6	-13.11	120.73	128.60
1	N	967	C	N3-C4-N4	13.10	127.17	118.00
1	N	386	C	N3-C4-N4	13.10	127.17	118.00
1	N	854	U	O4'-C1'-N1	13.09	118.67	108.20
1	N	738	C	C5-C4-N4	-13.09	111.04	120.20
1	N	1120	C	O4'-C1'-N1	13.08	118.67	108.20
1	N	1140	C	O4'-C1'-N1	13.08	118.66	108.20
1	N	1492	A	N1-C2-N3	13.08	135.84	129.30
1	N	194	C	O4'-C1'-N1	13.05	118.64	108.20
1	N	435	A	N1-C6-N6	13.05	126.43	118.60
1	N	1278	G	N3-C2-N2	13.04	129.03	119.90
1	N	900	A	N1-C2-N3	13.04	135.82	129.30
1	N	269	C	C6-N1-C2	-13.04	115.08	120.30
1	N	1166	G	C5-C6-O6	-13.04	120.78	128.60
1	N	260	G	C5-C6-O6	-13.04	120.78	128.60
1	N	1284	C	C5-C4-N4	-13.04	111.08	120.20
1	N	380	G	O4'-C1'-N9	13.03	118.63	108.20
1	N	1306	A	C5-C6-N6	-13.03	113.28	123.70
1	N	472	U	N3-C4-O4	13.02	128.52	119.40
1	N	200	G	N1-C6-O6	13.02	127.71	119.90
1	N	359	G	C5-C6-O6	-13.02	120.79	128.60
1	N	1334	G	C5-C6-O6	-13.02	120.79	128.60
1	N	527	G	C5-C6-O6	-13.01	120.79	128.60
1	N	710	G	O4'-C1'-N9	13.01	118.61	108.20
1	N	80	A	N1-C6-N6	12.99	126.39	118.60
1	N	1515	G	C8-N9-C4	-12.98	101.21	106.40
1	N	1069	C	N3-C4-C5	-12.97	116.71	121.90
1	N	45	G	C5-C6-O6	-12.96	120.82	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	525	C	C5-C6-N1	12.97	127.48	121.00
1	N	391	G	O4'-C1'-N9	12.95	118.56	108.20
1	N	423	G	C5-C6-O6	-12.95	120.83	128.60
1	N	495	A	P-O3'-C3'	12.94	135.23	119.70
1	N	558	G	C2-N3-C4	-12.94	105.43	111.90
1	N	211	G	O4'-C1'-N9	12.93	118.55	108.20
1	N	293	G	N3-C2-N2	12.93	128.95	119.90
1	N	1047	G	N1-C6-O6	12.92	127.65	119.90
1	N	1387	G	N1-C6-O6	12.92	127.65	119.90
1	N	1374	A	N1-C6-N6	12.90	126.34	118.60
1	N	184	G	C5-C6-N1	-12.90	105.05	111.50
1	N	477	C	N3-C4-C5	-12.89	116.75	121.90
1	N	55	A	C5-C6-N1	-12.88	111.26	117.70
1	N	812	G	C6-C5-N7	-12.88	122.67	130.40
1	N	579	A	C5-C6-N6	-12.88	113.40	123.70
1	N	1417	G	N1-C6-O6	12.88	127.63	119.90
1	N	22	G	N1-C6-O6	12.87	127.62	119.90
1	N	529	G	N1-C6-O6	12.87	127.62	119.90
1	N	392	C	N3-C4-N4	12.87	127.01	118.00
1	N	148	G	N1-C6-O6	12.86	127.62	119.90
1	N	207	C	N3-C4-C5	-12.86	116.76	121.90
1	N	255	G	C5-C6-O6	-12.86	120.89	128.60
1	N	1352	C	C6-N1-C2	-12.85	115.16	120.30
1	N	244	U	C6-N1-C2	-12.85	113.29	121.00
1	N	1110	A	P-O3'-C3'	12.84	135.11	119.70
1	N	95	C	C5'-C4'-C3'	-12.83	95.47	116.00
1	N	725	G	C5-C6-O6	-12.83	120.90	128.60
1	N	1457	G	C6-N1-C2	12.83	132.80	125.10
1	N	1151	A	N1-C6-N6	12.83	126.30	118.60
1	N	544	G	N1-C6-O6	12.82	127.59	119.90
1	N	1196	A	C6-C5-N7	-12.82	123.32	132.30
1	N	1462	C	C6-N1-C2	-12.82	115.17	120.30
1	N	1502	A	C4-C5-C6	12.82	123.41	117.00
1	N	1224	U	O4'-C1'-N1	12.81	118.45	108.20
1	N	454	G	N1-C6-O6	12.81	127.58	119.90
1	N	1140	C	C5-C6-N1	12.81	127.40	121.00
1	N	317	U	O4'-C1'-N1	12.80	118.44	108.20
1	N	845	A	C2-N3-C4	12.79	117.00	110.60
1	N	106	C	C2-N3-C4	12.79	126.30	119.90
1	N	577	G	C5-C6-O6	-12.79	120.93	128.60
1	N	1061	G	N1-C6-O6	12.78	127.56	119.90
1	N	127	G	N1-C6-O6	12.77	127.56	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1006	G	C5-C6-O6	-12.77	120.94	128.60
1	N	566	G	N1-C6-O6	12.77	127.56	119.90
1	N	853	C	O4'-C1'-N1	12.77	118.41	108.20
1	N	731	G	N1-C6-O6	12.76	127.56	119.90
1	N	460	A	O4'-C1'-N9	12.75	118.40	108.20
1	N	655	A	N1-C6-N6	12.74	126.25	118.60
1	N	649	A	C5-C6-N1	-12.74	111.33	117.70
1	N	1084	G	N3-C2-N2	12.73	128.81	119.90
1	N	1383	C	O4'-C1'-N1	12.73	118.38	108.20
1	N	666	G	C5-C6-N1	-12.72	105.14	111.50
1	N	1474	U	N3-C2-O2	12.70	131.09	122.20
1	N	1463	U	O4'-C1'-N1	12.70	118.36	108.20
1	N	846	G	C5-C6-O6	-12.70	120.98	128.60
1	N	1033	G	C8-N9-C4	-12.70	101.32	106.40
1	N	1110	A	C5-C6-N1	-12.69	111.35	117.70
1	N	1395	C	O4'-C1'-N1	12.69	118.35	108.20
1	N	664	G	N1-C6-O6	12.69	127.51	119.90
1	N	645	G	C4-C5-N7	12.67	115.87	110.80
1	N	958	A	C4-C5-C6	12.67	123.33	117.00
1	N	1058	G	N1-C6-O6	12.66	127.50	119.90
1	N	1488	G	N1-C6-O6	12.66	127.50	119.90
1	N	124	C	C5-C6-N1	12.65	127.33	121.00
1	N	254	G	C5-C6-O6	-12.65	121.01	128.60
1	N	51	A	P-O3'-C3'	12.64	134.87	119.70
1	N	853	C	N3-C4-N4	12.64	126.85	118.00
1	N	627	G	N1-C6-O6	12.64	127.48	119.90
1	N	869	G	N3-C2-N2	12.64	128.75	119.90
1	N	1213	A	N7-C8-N9	-12.62	107.49	113.80
1	N	662	U	O4'-C1'-N1	12.62	118.29	108.20
1	N	1447	A	N1-C2-N3	12.61	135.60	129.30
1	N	693	G	C5-C6-O6	-12.60	121.04	128.60
1	N	88	U	O4'-C1'-N1	12.60	118.28	108.20
1	N	492	C	N3-C4-N4	12.60	126.82	118.00
1	N	233	C	C2-N1-C1'	12.59	132.65	118.80
1	N	491	G	C5-C6-O6	-12.59	121.05	128.60
1	N	824	G	C8-N9-C4	12.59	111.44	106.40
1	N	1036	A	C4-C5-C6	12.59	123.29	117.00
1	N	564	C	O4'-C1'-N1	12.58	118.27	108.20
1	N	648	A	C5-C6-N1	-12.58	111.41	117.70
1	N	1354	U	O4'-C1'-N1	12.58	118.26	108.20
1	N	233	C	C5-C6-N1	12.57	127.29	121.00
1	N	748	G	C8-N9-C4	-12.57	101.37	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1140	C	C6-N1-C2	-12.57	115.27	120.30
1	N	1416	G	C5-C6-O6	-12.57	121.06	128.60
1	N	1106	G	C8-N9-C4	-12.57	101.37	106.40
1	N	1236	A	C5-C6-N1	-12.57	111.41	117.70
1	N	491	G	N1-C6-O6	12.57	127.44	119.90
1	N	746	A	C4-C5-C6	12.57	123.28	117.00
1	N	238	A	N1-C6-N6	12.55	126.13	118.60
1	N	720	C	N3-C4-N4	12.55	126.78	118.00
1	N	500	G	O4'-C1'-N9	12.54	118.23	108.20
1	N	849	G	N1-C6-O6	12.54	127.43	119.90
1	N	986	U	O4'-C1'-N1	12.54	118.23	108.20
1	N	1491	G	C5-C6-N1	-12.53	105.23	111.50
1	N	976	G	C4-C5-C6	12.53	126.32	118.80
1	N	778	G	C5-C6-O6	-12.52	121.09	128.60
1	N	1040	U	N3-C4-C5	-12.52	107.09	114.60
1	N	1040	U	P-O5'-C5'	12.51	140.92	120.90
1	N	132	C	N3-C4-C5	-12.51	116.90	121.90
1	N	335	C	O4'-C1'-N1	12.51	118.21	108.20
1	N	883	C	N3-C4-C5	-12.51	116.90	121.90
1	N	151	A	C5-C6-N1	-12.50	111.45	117.70
1	N	1160	G	O4'-C1'-N9	12.50	118.20	108.20
1	N	410	G	C4-C5-N7	-12.49	105.80	110.80
1	N	517	G	C5-C6-O6	-12.49	121.11	128.60
1	N	292	G	N1-C6-O6	12.49	127.39	119.90
1	N	784	A	N1-C6-N6	12.49	126.09	118.60
1	N	19	A	N1-C6-N6	12.48	126.09	118.60
1	N	1106	G	C5-C6-O6	-12.48	121.11	128.60
1	N	1347	G	C5-C6-O6	-12.48	121.11	128.60
1	N	1017	U	O4'-C1'-N1	12.47	118.18	108.20
1	N	197	A	P-O3'-C3'	12.47	134.67	119.70
1	N	1349	A	O4'-C1'-N9	12.47	118.18	108.20
1	N	1382	C	O4'-C1'-N1	12.47	118.18	108.20
1	N	985	C	N3-C4-N4	12.47	126.73	118.00
1	N	88	U	P-O3'-C3'	12.46	134.66	119.70
1	N	309	A	C5-C6-N6	-12.46	113.73	123.70
1	N	963	G	C5-C6-O6	-12.46	121.12	128.60
1	N	191	G	N1-C6-O6	12.46	127.37	119.90
1	N	1513	A	C5-C6-N6	-12.45	113.74	123.70
1	N	1221	G	O4'-C1'-N9	12.45	118.16	108.20
1	N	513	C	O4'-C1'-N1	12.45	118.16	108.20
1	N	42	G	O4'-C1'-N9	12.44	118.16	108.20
1	N	1511	G	N1-C6-O6	12.44	127.36	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	566	G	C5-C6-N1	-12.43	105.28	111.50
1	N	725	G	C5-C6-N1	-12.43	105.29	111.50
1	N	1192	C	N3-C4-N4	12.43	126.70	118.00
1	N	495	A	C5-C6-N1	-12.43	111.49	117.70
1	N	43	C	O4'-C1'-N1	12.42	118.14	108.20
1	N	844	G	O4'-C1'-N9	12.42	118.13	108.20
1	N	1112	C	C2-N1-C1'	12.41	132.45	118.80
1	N	761	G	C5-C6-O6	-12.41	121.15	128.60
1	N	423	G	N1-C6-O6	12.41	127.34	119.90
1	N	1334	G	N1-C6-O6	12.41	127.34	119.90
1	N	1336	C	N1-C2-O2	12.41	126.34	118.90
1	N	549	C	C4-C5-C6	12.40	123.60	117.40
1	N	1007	U	N3-C2-O2	12.40	130.88	122.20
1	N	70	U	N1-C2-N3	12.40	122.34	114.90
1	N	595	A	N1-C2-N3	12.40	135.50	129.30
1	N	1299	A	N1-C6-N6	12.40	126.04	118.60
1	N	656	G	N1-C2-N3	-12.39	116.47	123.90
1	N	922	G	O4'-C1'-N9	12.38	118.11	108.20
1	N	1175	G	C5-C6-N1	-12.38	105.31	111.50
1	N	194	C	N3-C4-N4	12.37	126.66	118.00
1	N	1000	A	C5-C6-N6	-12.37	113.80	123.70
1	N	821	G	O4'-C1'-N9	12.36	118.09	108.20
1	N	1051	C	N3-C4-N4	12.35	126.65	118.00
1	N	1178	G	P-O5'-C5'	12.35	140.66	120.90
1	N	238	A	C4-C5-C6	12.35	123.17	117.00
1	N	153	C	N3-C4-N4	12.35	126.64	118.00
1	N	819	A	C5-N7-C8	12.34	110.07	103.90
1	N	1208	C	C6-N1-C2	-12.34	115.36	120.30
1	N	1426	G	N1-C6-O6	12.34	127.30	119.90
1	N	1053	G	N1-C6-O6	12.34	127.30	119.90
1	N	1363	A	N1-C6-N6	12.34	126.00	118.60
1	N	1526	G	C5-C6-N1	-12.34	105.33	111.50
1	N	1033	G	C5-C6-O6	-12.34	121.20	128.60
1	N	392	C	N3-C4-C5	-12.33	116.97	121.90
1	N	1099	G	O4'-C1'-N9	12.33	118.06	108.20
1	N	1504	G	C5-C6-O6	-12.33	121.20	128.60
1	N	693	G	N1-C6-O6	12.33	127.30	119.90
1	N	111	G	C2-N3-C4	-12.33	105.73	111.90
1	N	428	G	C5-C6-O6	-12.33	121.20	128.60
1	N	853	C	C5-C4-N4	-12.32	111.57	120.20
1	N	382	A	N1-C6-N6	12.32	125.99	118.60
1	N	1323	G	C5-C6-O6	-12.32	121.21	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	926	G	N1-C6-O6	12.31	127.29	119.90
1	N	1053	G	O4'-C1'-N9	12.31	118.05	108.20
1	N	605	U	P-O3'-C3'	12.30	134.46	119.70
1	N	392	C	C2-N3-C4	12.30	126.05	119.90
1	N	650	G	C5-C6-O6	-12.30	121.22	128.60
1	N	887	G	N1-C6-O6	12.30	127.28	119.90
1	N	1155	A	N1-C6-N6	12.29	125.97	118.60
1	N	1514	G	N1-C6-O6	12.28	127.27	119.90
1	N	878	A	C5-C6-N6	-12.28	113.88	123.70
1	N	130	A	C4-C5-C6	12.27	123.13	117.00
1	N	622	A	C5-C6-N1	-12.26	111.57	117.70
1	N	1521	C	N3-C4-N4	12.26	126.58	118.00
1	N	1529	G	P-O3'-C3'	12.25	134.41	119.70
1	N	198	G	C3'-C2'-C1'	12.25	111.30	101.50
1	N	38	G	N3-C4-C5	-12.24	122.48	128.60
1	N	695	A	C4-C5-C6	12.24	123.12	117.00
1	N	857	C	O4'-C1'-N1	12.24	118.00	108.20
1	N	795	C	N3-C4-C5	-12.23	117.01	121.90
1	N	497	G	N1-C6-O6	12.22	127.23	119.90
1	N	401	C	O4'-C1'-N1	12.22	117.97	108.20
1	N	1493	A	C8-N9-C4	-12.22	100.91	105.80
1	N	146	G	C6-C5-N7	-12.21	123.07	130.40
1	N	968	A	N1-C6-N6	12.21	125.93	118.60
1	N	359	G	N1-C6-O6	12.21	127.22	119.90
1	N	47	C	N3-C4-C5	-12.20	117.02	121.90
1	N	803	G	C8-N9-C4	-12.20	101.52	106.40
1	N	566	G	P-O3'-C3'	12.19	134.33	119.70
1	N	513	C	C5-C6-N1	12.19	127.10	121.00
1	N	841	C	N3-C4-N4	12.19	126.53	118.00
1	N	1399	C	N3-C4-N4	12.18	126.53	118.00
1	N	843	U	O4'-C1'-N1	12.17	117.94	108.20
1	N	1511	G	C5-C6-O6	-12.17	121.30	128.60
1	N	1110	A	N1-C6-N6	12.17	125.90	118.60
1	N	1127	G	N1-C6-O6	12.16	127.19	119.90
1	N	351	G	C5-C6-O6	-12.15	121.31	128.60
1	N	814	A	N1-C6-N6	12.15	125.89	118.60
1	N	1250	A	C5-C6-N6	-12.15	113.98	123.70
1	N	703	G	N1-C6-O6	12.14	127.19	119.90
1	N	1007	U	P-O3'-C3'	12.14	134.27	119.70
1	N	1191	A	N1-C6-N6	12.14	125.89	118.60
1	N	382	A	C5-C6-N6	-12.14	113.99	123.70
1	N	587	G	C5-C6-N1	-12.14	105.43	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1503	A	C8-N9-C4	-12.13	100.95	105.80
1	N	1373	G	C5-C6-N1	-12.13	105.44	111.50
1	N	606	G	N1-C6-O6	12.12	127.17	119.90
1	N	1520	C	C6-N1-C2	-12.11	115.45	120.30
1	N	1304	G	C5-C6-O6	-12.11	121.33	128.60
1	N	1388	C	O4'-C1'-N1	12.11	117.89	108.20
1	N	1329	A	O4'-C1'-N9	12.10	117.88	108.20
1	N	671	G	C8-N9-C4	-12.09	101.56	106.40
1	N	1174	G	N9-C4-C5	-12.09	100.56	105.40
1	N	98	A	N1-C6-N6	12.09	125.85	118.60
1	N	631	C	O4'-C1'-N1	12.09	117.87	108.20
1	N	830	G	N1-C6-O6	12.09	127.15	119.90
1	N	480	U	N3-C2-O2	-12.08	113.74	122.20
1	N	549	C	N3-C4-C5	-12.08	117.07	121.90
1	N	990	C	C5-C6-N1	12.08	127.04	121.00
1	N	633	G	C5-C6-O6	-12.07	121.36	128.60
1	N	192	A	N1-C6-N6	12.07	125.84	118.60
1	N	645	G	N1-C6-O6	12.07	127.14	119.90
1	N	493	A	C5-C6-N6	-12.06	114.05	123.70
1	N	812	G	P-O3'-C3'	12.06	134.18	119.70
1	N	1094	G	N1-C2-N3	-12.06	116.66	123.90
1	N	653	U	N3-C4-O4	12.06	127.84	119.40
1	N	946	A	N1-C2-N3	-12.06	123.27	129.30
1	N	312	C	N3-C4-N4	12.06	126.44	118.00
1	N	942	G	C5-C6-O6	-12.06	121.37	128.60
1	N	176	C	O4'-C1'-N1	12.05	117.84	108.20
1	N	513	C	C6-N1-C2	-12.05	115.48	120.30
1	N	142	G	P-O3'-C3'	12.04	134.15	119.70
1	N	749	A	C5-C6-N6	-12.05	114.06	123.70
1	N	1485	U	O4'-C1'-N1	12.04	117.83	108.20
1	N	494	G	N9-C4-C5	-12.04	100.58	105.40
1	N	1231	G	C5-C6-N1	-12.03	105.48	111.50
1	N	773	G	C5-C6-O6	-12.03	121.38	128.60
1	N	913	A	C8-N9-C4	-12.02	100.99	105.80
1	N	14	U	O4'-C1'-N1	12.02	117.82	108.20
1	N	1287	A	C4-C5-C6	12.02	123.01	117.00
1	N	1366	C	N3-C4-C5	-12.02	117.09	121.90
1	N	941	G	C5-C6-O6	-12.01	121.39	128.60
1	N	1132	C	O4'-C1'-N1	12.01	117.81	108.20
1	N	29	U	O4'-C1'-N1	12.01	117.81	108.20
1	N	118	U	O4'-C1'-N1	12.01	117.81	108.20
1	N	169	C	O4'-C1'-N1	12.00	117.80	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	974	A	N1-C6-N6	12.00	125.80	118.60
1	N	257	G	N1-C6-O6	12.00	127.10	119.90
1	N	59	A	N1-C6-N6	12.00	125.80	118.60
1	N	386	C	O4'-C1'-N1	12.00	117.80	108.20
1	N	1279	G	C4-C5-N7	11.99	115.60	110.80
1	N	308	C	C6-N1-C2	-11.99	115.50	120.30
1	N	523	A	N1-C6-N6	11.98	125.79	118.60
1	N	1004	A	N1-C6-N6	11.97	125.78	118.60
1	N	496	A	N1-C6-N6	11.96	125.78	118.60
1	N	715	A	C5-C6-N6	-11.96	114.14	123.70
1	N	1222	G	N1-C2-N3	-11.95	116.73	123.90
1	N	738	C	N3-C4-N4	11.95	126.36	118.00
1	N	899	C	O4'-C1'-N1	11.94	117.75	108.20
1	N	77	A	N1-C6-N6	11.93	125.76	118.60
1	N	665	A	C5-N7-C8	11.93	109.87	103.90
1	N	1025	U	C5-C4-O4	-11.93	118.75	125.90
1	N	750	C	N3-C4-C5	-11.92	117.13	121.90
1	N	1098	C	O4'-C1'-N1	11.92	117.73	108.20
1	N	824	G	C5-C6-N1	-11.91	105.54	111.50
1	N	1304	G	C2-N3-C4	11.91	117.86	111.90
1	N	1030	U	O4'-C1'-N1	11.91	117.73	108.20
1	N	137	U	C6-N1-C2	-11.91	113.86	121.00
1	N	613	C	O4'-C1'-N1	11.91	117.72	108.20
1	N	1466	C	O4'-C1'-N1	11.90	117.72	108.20
1	N	84	U	O4'-C1'-N1	11.90	117.72	108.20
1	N	1396	A	O4'-C1'-N9	11.90	117.72	108.20
1	N	89	U	O4'-C1'-N1	11.89	117.71	108.20
1	N	363	A	C4-C5-C6	11.89	122.94	117.00
1	N	216	U	C5-C6-N1	11.88	128.64	122.70
1	N	217	C	O4'-C1'-N1	11.88	117.70	108.20
1	N	243	A	N1-C6-N6	11.88	125.73	118.60
1	N	859	G	O4'-C1'-N9	11.88	117.70	108.20
1	N	66	A	C5-C6-N1	-11.87	111.77	117.70
1	N	614	C	C5-C6-N1	11.87	126.93	121.00
1	N	460	A	N1-C6-N6	11.87	125.72	118.60
1	N	1111	A	C5-C6-N1	-11.87	111.77	117.70
1	N	776	G	N3-C2-N2	11.86	128.21	119.90
1	N	772	U	O4'-C1'-N1	11.86	117.69	108.20
1	N	1246	A	C8-N9-C4	-11.86	101.06	105.80
1	N	217	C	N3-C4-N4	11.86	126.30	118.00
1	N	984	C	O4'-C1'-N1	11.86	117.68	108.20
1	N	1265	C	O4'-C1'-N1	11.85	117.68	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1361	G	C5-C6-O6	-11.85	121.49	128.60
1	N	142	G	C5-C6-O6	-11.85	121.49	128.60
1	N	923	A	N1-C6-N6	11.85	125.71	118.60
1	N	966	G	O4'-C1'-N9	11.85	117.68	108.20
1	N	927	G	N1-C6-O6	11.84	127.00	119.90
1	N	1274	A	O4'-C1'-N9	11.84	117.67	108.20
1	N	94	G	C5-C6-O6	-11.83	121.50	128.60
1	N	720	C	N3-C4-C5	-11.83	117.17	121.90
1	N	1262	C	C6-N1-C2	-11.83	115.57	120.30
1	N	733	G	C5-C6-N1	-11.83	105.59	111.50
1	N	455	G	C5-C6-O6	-11.82	121.50	128.60
1	N	521	G	N1-C6-O6	11.82	126.99	119.90
1	N	301	G	C4-C5-N7	11.82	115.53	110.80
1	N	1502	A	P-O3'-C3'	11.81	133.88	119.70
1	N	874	G	C6-C5-N7	-11.81	123.31	130.40
1	N	222	C	N3-C4-C5	-11.80	117.18	121.90
1	N	1517	G	N1-C6-O6	11.80	126.98	119.90
1	N	614	C	O4'-C1'-N1	11.79	117.64	108.20
1	N	1207	G	C5-C6-O6	-11.79	121.52	128.60
1	N	630	A	C4-C5-C6	11.79	122.89	117.00
1	N	191	G	C5-C6-O6	-11.79	121.53	128.60
1	N	663	A	O4'-C1'-N9	11.78	117.62	108.20
1	N	452	A	O4'-C1'-N9	11.78	117.62	108.20
1	N	943	U	O4'-C1'-N1	11.77	117.62	108.20
1	N	1027	C	N3-C4-N4	11.77	126.24	118.00
1	N	886	G	N1-C6-O6	11.77	126.96	119.90
1	N	825	A	C4-C5-C6	11.76	122.88	117.00
1	N	202	G	C5-N7-C8	-11.76	98.42	104.30
1	N	1090	U	N3-C4-O4	11.76	127.63	119.40
1	N	666	G	C6-N1-C2	11.75	132.15	125.10
1	N	1041	G	C5-C6-O6	-11.75	121.55	128.60
1	N	717	U	P-O3'-C3'	11.75	133.80	119.70
1	N	1145	A	N1-C6-N6	11.75	125.65	118.60
1	N	411	A	N1-C6-N6	11.74	125.65	118.60
1	N	1491	G	N1-C6-O6	11.74	126.94	119.90
1	N	693	G	N3-C2-N2	11.74	128.12	119.90
1	N	233	C	O4'-C1'-N1	11.74	117.59	108.20
1	N	685	G	N1-C6-O6	11.74	126.94	119.90
1	N	1229	A	C6-C5-N7	-11.74	124.08	132.30
1	N	327	A	P-O3'-C3'	11.73	133.78	119.70
1	N	1012	A	C5-C6-N6	-11.73	114.31	123.70
1	N	689	C	C6-N1-C2	-11.73	115.61	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1036	A	C4-C5-N7	-11.73	104.84	110.70
1	N	207	C	C5-C6-N1	11.72	126.86	121.00
1	N	459	A	N1-C6-N6	11.72	125.63	118.60
1	N	352	C	C2-N1-C1'	11.72	131.69	118.80
1	N	467	U	C2-N1-C1'	11.72	131.76	117.70
1	N	771	G	O4'-C1'-N9	11.72	117.58	108.20
1	N	820	U	O4'-C1'-N1	11.71	117.57	108.20
1	N	1381	U	C5-C4-O4	11.71	132.93	125.90
1	N	1460	C	N3-C4-N4	11.71	126.20	118.00
1	N	1016	A	C5-C6-N1	-11.71	111.85	117.70
1	N	495	A	N1-C2-N3	11.71	135.15	129.30
1	N	498	A	O4'-C1'-N9	11.71	117.56	108.20
1	N	1084	G	N1-C6-O6	11.71	126.92	119.90
1	N	626	G	N1-C6-O6	11.70	126.92	119.90
1	N	1278	G	P-O3'-C3'	11.70	133.74	119.70
1	N	344	A	N1-C6-N6	11.69	125.61	118.60
1	N	374	A	N1-C6-N6	11.69	125.61	118.60
1	N	687	A	N1-C6-N6	11.69	125.61	118.60
1	N	131	A	C5-C6-N6	-11.67	114.36	123.70
1	N	157	U	O4'-C1'-N1	11.67	117.54	108.20
1	N	556	C	C6-N1-C2	-11.67	115.63	120.30
1	N	867	G	C4-C5-N7	11.67	115.47	110.80
1	N	1014	A	C4-C5-C6	11.66	122.83	117.00
1	N	1025	U	N3-C4-O4	11.66	127.57	119.40
1	N	718	A	P-O3'-C3'	11.66	133.69	119.70
1	N	864	A	C6-N1-C2	-11.66	111.61	118.60
1	N	794	A	N1-C2-N3	11.65	135.13	129.30
1	N	958	A	C5-C6-N1	-11.65	111.88	117.70
1	N	1499	A	C4-C5-C6	11.64	122.82	117.00
1	N	1079	G	P-O3'-C3'	11.64	133.67	119.70
1	N	290	C	C5-C4-N4	-11.63	112.06	120.20
1	N	863	U	O4'-C1'-N1	11.63	117.51	108.20
1	N	1210	C	N3-C4-C5	-11.62	117.25	121.90
1	N	1240	U	C6-N1-C2	-11.62	114.03	121.00
1	N	1014	A	C5-C6-N1	-11.62	111.89	117.70
1	N	568	G	N1-C6-O6	11.62	126.87	119.90
1	N	219	U	N1-C2-O2	-11.61	114.67	122.80
1	N	58	C	O4'-C1'-N1	11.61	117.49	108.20
1	N	310	G	N1-C2-N3	-11.61	116.93	123.90
1	N	1438	G	C5-C6-N1	-11.60	105.70	111.50
1	N	864	A	N1-C6-N6	11.60	125.56	118.60
1	N	1035	A	N1-C6-N6	11.60	125.56	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1112	C	C6-N1-C1'	-11.60	106.89	120.80
1	N	546	A	O4'-C1'-N9	11.59	117.47	108.20
1	N	21	G	C4-C5-N7	-11.59	106.17	110.80
1	N	9	G	N1-C6-O6	11.58	126.85	119.90
1	N	1413	A	O4'-C1'-N9	11.58	117.47	108.20
1	N	1144	G	P-O3'-C3'	11.58	133.60	119.70
1	N	505	G	N1-C6-O6	11.58	126.85	119.90
1	N	157	U	N3-C4-C5	-11.57	107.66	114.60
1	N	1251	A	N1-C6-N6	11.57	125.54	118.60
1	N	513	C	C2-N3-C4	11.57	125.69	119.90
1	N	530	G	P-O3'-C3'	11.57	133.58	119.70
1	N	1274	A	P-O5'-C5'	11.57	139.41	120.90
1	N	1531	A	P-O5'-C5'	11.57	139.41	120.90
1	N	385	C	N3-C4-N4	11.55	126.09	118.00
1	N	447	G	N1-C2-N3	-11.54	116.98	123.90
1	N	1350	A	C5-C6-N6	-11.54	114.47	123.70
1	N	439	U	O4'-C1'-N1	11.53	117.43	108.20
1	N	618	C	O4'-C1'-N1	11.53	117.42	108.20
1	N	915	A	N1-C6-N6	11.53	125.52	118.60
1	N	1074	G	N3-C2-N2	11.53	127.97	119.90
1	N	1225	A	C4-C5-C6	11.53	122.76	117.00
1	N	1276	G	N9-C4-C5	-11.53	100.79	105.40
1	N	210	C	O4'-C1'-N1	11.52	117.42	108.20
1	N	1336	C	P-O3'-C3'	11.52	133.52	119.70
1	N	384	G	C5-C6-O6	-11.51	121.69	128.60
1	N	392	C	O4'-C1'-N1	11.51	117.41	108.20
1	N	121	U	O4'-C1'-N1	11.51	117.41	108.20
1	N	635	A	C4-C5-C6	11.51	122.75	117.00
1	N	759	A	N1-C6-N6	11.49	125.50	118.60
1	N	1314	C	N3-C4-C5	-11.49	117.30	121.90
1	N	507	C	N3-C4-N4	11.49	126.04	118.00
1	N	535	A	C5-C6-N6	-11.49	114.51	123.70
1	N	1257	A	C5-C6-N6	-11.49	114.51	123.70
1	N	1141	C	C6-N1-C2	11.48	124.89	120.30
1	N	545	C	N3-C4-C5	-11.48	117.31	121.90
1	N	833	G	C5-C6-O6	-11.48	121.71	128.60
1	N	1131	G	O4'-C1'-N9	11.48	117.38	108.20
1	N	1171	A	N1-C6-N6	11.47	125.48	118.60
1	N	211	G	C5-C6-N1	-11.47	105.76	111.50
1	N	612	C	O4'-C1'-N1	11.47	117.38	108.20
1	N	515	G	C6-C5-N7	-11.47	123.52	130.40
1	N	246	A	P-O5'-C5'	11.46	139.24	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	873	A	C4-C5-C6	11.47	122.73	117.00
1	N	779	C	O4'-C1'-N1	11.46	117.37	108.20
1	N	554	A	O4'-C1'-N9	11.46	117.37	108.20
1	N	380	G	C8-N9-C1'	11.45	141.89	127.00
1	N	499	A	C8-N9-C4	-11.45	101.22	105.80
1	N	1114	C	N3-C4-N4	11.45	126.02	118.00
1	N	642	A	N1-C2-N3	11.45	135.02	129.30
1	N	1329	A	N1-C6-N6	11.45	125.47	118.60
1	N	224	U	O4'-C1'-N1	11.45	117.36	108.20
1	N	654	G	N1-C6-O6	11.44	126.77	119.90
1	N	880	C	N3-C4-N4	11.44	126.00	118.00
1	N	1111	A	N1-C6-N6	11.43	125.46	118.60
1	N	492	C	N3-C4-C5	-11.43	117.33	121.90
1	N	1278	G	C5-C6-O6	-11.43	121.74	128.60
1	N	42	G	C5-C6-O6	-11.43	121.75	128.60
1	N	341	C	C5-C6-N1	11.42	126.71	121.00
1	N	1213	A	N1-C6-N6	11.42	125.45	118.60
1	N	897	C	C5-C6-N1	11.42	126.71	121.00
1	N	1260	G	C5-C6-O6	-11.42	121.75	128.60
1	N	1338	G	N1-C2-N3	-11.42	117.05	123.90
1	N	275	G	N1-C6-O6	11.42	126.75	119.90
1	N	515	G	N9-C4-C5	-11.41	100.84	105.40
1	N	702	A	O4'-C1'-N9	11.40	117.32	108.20
1	N	1269	A	C5-C6-N6	-11.40	114.58	123.70
1	N	847	G	C5-C6-O6	-11.39	121.76	128.60
1	N	569	C	C6-N1-C2	-11.39	115.74	120.30
1	N	1078	U	O4'-C1'-N1	11.39	117.31	108.20
1	N	186	C	N3-C4-N4	11.39	125.97	118.00
1	N	1101	A	P-O3'-C3'	11.39	133.37	119.70
1	N	924	C	O4'-C1'-N1	11.38	117.31	108.20
1	N	1493	A	C5-C6-N6	-11.38	114.59	123.70
1	N	553	A	N1-C6-N6	11.38	125.43	118.60
1	N	1358	U	P-O3'-C3'	11.38	133.36	119.70
1	N	10	A	C5-C6-N6	-11.38	114.60	123.70
1	N	1448	C	N3-C4-C5	-11.38	117.35	121.90
1	N	318	G	C5-C6-O6	-11.38	121.77	128.60
1	N	548	G	C6-C5-N7	-11.38	123.57	130.40
1	N	673	A	N1-C6-N6	11.37	125.42	118.60
1	N	307	C	C2-N1-C1'	11.37	131.30	118.80
1	N	645	G	N9-C4-C5	-11.37	100.85	105.40
1	N	995	C	C6-N1-C2	-11.36	115.75	120.30
1	N	1189	U	O4'-C1'-N1	11.36	117.29	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1304	G	N1-C2-N3	-11.36	117.08	123.90
1	N	665	A	N1-C2-N3	11.35	134.97	129.30
1	N	1141	C	N3-C4-C5	-11.35	117.36	121.90
1	N	1153	G	O4'-C1'-N9	11.35	117.28	108.20
1	N	160	A	O4'-C1'-N9	11.34	117.27	108.20
1	N	177	G	O4'-C1'-N9	11.34	117.27	108.20
1	N	660	C	P-O3'-C3'	11.34	133.31	119.70
1	N	895	G	O4'-C1'-N9	11.34	117.27	108.20
1	N	970	C	O4'-C1'-N1	11.34	117.27	108.20
1	N	433	G	N3-C4-C5	11.33	134.27	128.60
1	N	1165	U	O4'-C1'-N1	11.33	117.26	108.20
1	N	1180	A	C5-C6-N1	-11.33	112.04	117.70
1	N	940	C	O4'-C1'-N1	11.32	117.26	108.20
1	N	953	G	C5-N7-C8	11.32	109.96	104.30
1	N	1100	C	O4'-C1'-N1	11.32	117.26	108.20
1	N	1067	A	N1-C6-N6	11.32	125.39	118.60
1	N	1220	G	O4'-C1'-N9	11.32	117.25	108.20
1	N	1223	C	N3-C4-C5	-11.31	117.38	121.90
1	N	821	G	N1-C2-N3	-11.30	117.12	123.90
1	N	1462	C	C5-C6-N1	11.30	126.65	121.00
1	N	182	A	C5-C6-N1	-11.30	112.05	117.70
1	N	214	C	N3-C4-C5	-11.30	117.38	121.90
1	N	913	A	N1-C6-N6	11.29	125.37	118.60
1	N	318	G	N1-C6-O6	11.29	126.67	119.90
1	N	282	A	N1-C6-N6	11.29	125.37	118.60
1	N	754	C	C6-N1-C2	-11.29	115.79	120.30
1	N	1019	A	N7-C8-N9	-11.28	108.16	113.80
1	N	226	G	C4-C5-N7	11.28	115.31	110.80
1	N	1074	G	C6-N1-C2	11.28	131.87	125.10
1	N	1200	C	N3-C4-C5	-11.27	117.39	121.90
1	N	200	G	C5-C6-O6	-11.27	121.84	128.60
1	N	802	A	P-O3'-C3'	11.27	133.22	119.70
1	N	1357	A	N1-C6-N6	11.26	125.36	118.60
1	N	1392	G	C5-N7-C8	11.26	109.93	104.30
1	N	428	G	N1-C6-O6	11.25	126.65	119.90
1	N	691	G	C8-N9-C4	-11.25	101.90	106.40
1	N	422	C	N3-C4-C5	-11.25	117.40	121.90
1	N	21	G	N9-C4-C5	11.24	109.90	105.40
1	N	845	A	N9-C4-C5	11.24	110.30	105.80
1	N	867	G	C5-C6-O6	-11.24	121.85	128.60
1	N	929	G	N1-C6-O6	11.24	126.65	119.90
1	N	1079	G	C4-C5-N7	-11.24	106.30	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1399	C	N3-C4-C5	-11.24	117.40	121.90
1	N	959	A	N1-C6-N6	11.24	125.34	118.60
1	N	1418	A	N7-C8-N9	-11.24	108.18	113.80
1	N	814	A	P-O3'-C3'	11.24	133.18	119.70
1	N	1349	A	C5-C6-N1	-11.24	112.08	117.70
1	N	592	G	N1-C6-O6	11.23	126.64	119.90
1	N	1207	G	N1-C6-O6	11.23	126.64	119.90
1	N	1489	G	C1'-O4'-C4'	-11.23	100.92	109.90
1	N	2	A	C4-C5-C6	11.22	122.61	117.00
1	N	190	A	N1-C6-N6	11.21	125.32	118.60
1	N	815	A	N1-C6-N6	11.20	125.32	118.60
1	N	324	G	C5-C6-O6	-11.20	121.88	128.60
1	N	560	A	C5-C6-N6	-11.20	114.74	123.70
1	N	953	G	C4-C5-N7	-11.20	106.32	110.80
1	N	729	A	O4'-C1'-N9	11.20	117.16	108.20
1	N	200	G	N1-C2-N3	-11.19	117.18	123.90
1	N	834	U	O4'-C1'-N1	11.19	117.15	108.20
1	N	1250	A	P-O5'-C5'	11.19	138.81	120.90
1	N	964	A	N1-C6-N6	11.19	125.31	118.60
1	N	1101	A	C5-C6-N6	-11.19	114.75	123.70
1	N	387	U	P-O3'-C3'	11.18	133.12	119.70
1	N	55	A	N1-C6-N6	11.18	125.31	118.60
1	N	782	A	N1-C6-N6	11.18	125.31	118.60
1	N	307	C	C6-N1-C2	-11.18	115.83	120.30
1	N	588	G	P-O5'-C5'	11.17	138.78	120.90
1	N	1142	G	C4-C5-N7	11.17	115.27	110.80
1	N	1108	G	C8-N9-C4	-11.16	101.94	106.40
1	N	1379	G	N1-C6-O6	11.15	126.59	119.90
1	N	800	G	P-O5'-C5'	11.15	138.74	120.90
1	N	612	C	N3-C4-N4	11.15	125.81	118.00
1	N	453	G	N1-C6-O6	11.15	126.59	119.90
1	N	567	G	N1-C6-O6	11.15	126.59	119.90
1	N	275	G	C8-N9-C4	-11.15	101.94	106.40
1	N	293	G	N1-C6-O6	11.15	126.59	119.90
1	N	1181	G	N3-C4-C5	11.15	134.17	128.60
1	N	458	U	C6-N1-C2	-11.14	114.31	121.00
1	N	415	A	C8-N9-C4	-11.14	101.35	105.80
1	N	212	G	N1-C6-O6	11.13	126.58	119.90
1	N	874	G	N1-C6-O6	11.13	126.58	119.90
1	N	801	U	O4'-C1'-N1	11.13	117.10	108.20
1	N	254	G	N1-C6-O6	11.13	126.58	119.90
1	N	775	G	N1-C6-O6	11.12	126.57	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	11	G	N1-C6-O6	11.12	126.57	119.90
1	N	69	G	C5-C6-O6	-11.12	121.93	128.60
1	N	645	G	C5-C6-O6	-11.12	121.93	128.60
1	N	397	A	C5-C6-N1	-11.12	112.14	117.70
1	N	620	C	O4'-C1'-N1	11.11	117.09	108.20
1	N	377	G	N3-C4-N9	-11.11	119.34	126.00
1	N	1223	C	C6-N1-C2	-11.11	115.86	120.30
1	N	316	C	C5'-C4'-C3'	-11.10	98.24	116.00
1	N	523	A	N7-C8-N9	11.10	119.35	113.80
1	N	338	A	C5-C6-N6	-11.10	114.82	123.70
1	N	501	C	C5-C6-N1	11.10	126.55	121.00
1	N	187	G	C5-C6-O6	-11.10	121.94	128.60
1	N	199	A	O4'-C1'-N9	11.10	117.08	108.20
1	N	1035	A	P-O5'-C5'	11.10	138.65	120.90
1	N	969	A	N1-C6-N6	11.09	125.25	118.60
1	N	242	G	N1-C6-O6	11.09	126.55	119.90
1	N	344	A	C5-C6-N1	-11.08	112.16	117.70
1	N	737	C	C5-C6-N1	11.08	126.54	121.00
1	N	1173	U	P-O5'-C5'	11.08	138.63	120.90
1	N	1468	A	N1-C6-N6	11.08	125.25	118.60
1	N	217	C	C5-C6-N1	11.08	126.54	121.00
1	N	424	G	P-O5'-C5'	11.07	138.62	120.90
1	N	1100	C	C4-C5-C6	11.07	122.94	117.40
1	N	1225	A	C6-C5-N7	-11.07	124.55	132.30
1	N	1413	A	N1-C6-N6	11.07	125.24	118.60
1	N	32	A	C5-C6-N6	-11.06	114.85	123.70
1	N	833	G	N1-C6-O6	11.06	126.54	119.90
1	N	1043	G	C5-C6-O6	-11.06	121.96	128.60
1	N	1233	G	N3-C2-N2	11.06	127.64	119.90
1	N	626	G	C5-C6-N1	-11.06	105.97	111.50
1	N	868	C	N3-C4-C5	-11.06	117.48	121.90
1	N	9	G	C5-C6-O6	-11.06	121.97	128.60
1	N	57	G	C5-C6-O6	-11.06	121.97	128.60
1	N	554	A	C8-N9-C4	-11.05	101.38	105.80
1	N	258	G	N1-C2-N3	-11.05	117.27	123.90
1	N	174	A	N1-C6-N6	11.04	125.22	118.60
1	N	781	A	O4'-C1'-N9	11.03	117.03	108.20
1	N	52	C	C6-N1-C2	-11.03	115.89	120.30
1	N	600	A	N7-C8-N9	11.03	119.31	113.80
1	N	432	A	N1-C6-N6	11.02	125.21	118.60
1	N	1473	G	N1-C6-O6	11.02	126.51	119.90
1	N	251	G	C5-C6-O6	-11.01	121.99	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	726	C	O4'-C1'-N1	11.01	117.01	108.20
1	N	930	C	C2-N3-C4	-11.01	114.39	119.90
1	N	1202	U	C5-C4-O4	-11.01	119.29	125.90
1	N	189	A	N1-C6-N6	11.01	125.21	118.60
1	N	1367	C	O4'-C1'-N1	11.01	117.01	108.20
1	N	115	G	O4'-C1'-N9	11.01	117.01	108.20
1	N	1121	U	O4'-C1'-N1	11.01	117.01	108.20
1	N	155	A	C5-C6-N1	-11.00	112.20	117.70
1	N	17	U	O4'-C1'-N1	11.00	117.00	108.20
1	N	902	G	C5-C6-O6	-11.00	122.00	128.60
1	N	1031	C	O4'-C1'-N1	10.99	117.00	108.20
1	N	1060	U	O4'-C1'-N1	10.99	116.99	108.20
1	N	1196	A	C4-C5-C6	10.99	122.50	117.00
1	N	1349	A	C5-C6-N6	-10.99	114.91	123.70
1	N	278	G	C5-C6-O6	-10.98	122.01	128.60
1	N	436	C	C6-N1-C2	-10.98	115.91	120.30
1	N	466	A	C4-C5-C6	10.98	122.49	117.00
1	N	1296	C	C5-C4-N4	-10.98	112.52	120.20
1	N	502	A	O4'-C1'-N9	10.98	116.98	108.20
1	N	302	G	O4'-C1'-N9	10.97	116.98	108.20
1	N	166	U	O4'-C1'-N1	10.97	116.98	108.20
1	N	810	C	C5-C6-N1	10.97	126.49	121.00
1	N	251	G	N1-C6-O6	10.97	126.48	119.90
1	N	206	C	N3-C4-C5	-10.96	117.51	121.90
1	N	1057	G	N1-C6-O6	10.96	126.48	119.90
1	N	453	G	C5-C6-O6	-10.96	122.03	128.60
1	N	586	C	O4'-C1'-N1	10.96	116.97	108.20
1	N	928	G	P-O3'-C3'	-10.96	106.55	119.70
1	N	1501	C	O4'-C1'-N1	10.96	116.97	108.20
1	N	1272	G	N1-C6-O6	10.96	126.47	119.90
1	N	148	G	C5-C6-O6	-10.95	122.03	128.60
1	N	923	A	C6-C5-N7	-10.95	124.64	132.30
1	N	1128	C	N3-C4-C5	-10.95	117.52	121.90
1	N	1203	C	O4'-C1'-N1	10.95	116.96	108.20
1	N	349	A	N1-C6-N6	10.95	125.17	118.60
1	N	1227	A	N1-C6-N6	10.95	125.17	118.60
1	N	190	A	C5-C6-N1	-10.94	112.23	117.70
1	N	1241	G	N9-C4-C5	-10.94	101.03	105.40
1	N	869	G	C5-C6-O6	-10.93	122.04	128.60
1	N	1196	A	C5-C6-N1	-10.93	112.23	117.70
1	N	962	C	N3-C4-N4	10.93	125.65	118.00
1	N	990	C	C4-C5-C6	-10.93	111.93	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	468	A	C4-C5-C6	10.93	122.46	117.00
1	N	179	A	C5-C6-N1	-10.92	112.24	117.70
1	N	1012	A	O4'-C1'-N9	10.92	116.94	108.20
1	N	1492	A	C2-N3-C4	-10.91	105.14	110.60
1	N	448	A	C5-N7-C8	10.91	109.36	103.90
1	N	209	U	O4'-C1'-N1	10.91	116.93	108.20
1	N	334	C	N3-C4-C5	-10.91	117.54	121.90
1	N	436	C	O4'-C1'-N1	10.91	116.93	108.20
1	N	236	A	C5-C6-N6	-10.91	114.97	123.70
1	N	756	C	N3-C4-C5	-10.90	117.54	121.90
1	N	664	G	O4'-C1'-N9	10.90	116.92	108.20
1	N	310	G	N3-C2-N2	10.90	127.53	119.90
1	N	792	A	N1-C6-N6	10.90	125.14	118.60
1	N	858	G	N1-C6-O6	10.90	126.44	119.90
1	N	1117	A	C5-C6-N1	-10.90	112.25	117.70
1	N	1504	G	N1-C6-O6	10.90	126.44	119.90
1	N	389	A	C2-N3-C4	-10.89	105.15	110.60
1	N	1306	A	N3-C4-C5	-10.89	119.17	126.80
1	N	885	G	C4-C5-C6	10.89	125.33	118.80
1	N	273	U	O4'-C1'-N1	10.89	116.91	108.20
1	N	777	A	C5-N7-C8	10.88	109.34	103.90
1	N	810	C	P-O3'-C3'	-10.88	106.64	119.70
1	N	951	G	N1-C6-O6	10.89	126.43	119.90
1	N	216	U	P-O3'-C3'	10.88	132.76	119.70
1	N	1031	C	C6-N1-C2	-10.87	115.95	120.30
1	N	100	G	C8-N9-C4	-10.87	102.05	106.40
1	N	248	C	O4'-C1'-N1	10.87	116.89	108.20
1	N	388	G	O4'-C1'-N9	10.87	116.89	108.20
1	N	1051	C	O4'-C1'-N1	10.87	116.89	108.20
1	N	1446	A	C8-N9-C4	-10.86	101.45	105.80
1	N	557	G	P-O3'-C3'	10.86	132.73	119.70
1	N	1429	A	N1-C6-N6	10.86	125.11	118.60
1	N	302	G	C5-C6-O6	-10.85	122.09	128.60
1	N	357	G	N1-C6-O6	10.85	126.41	119.90
1	N	1360	A	C5-C6-N1	-10.85	112.27	117.70
1	N	28	A	N1-C6-N6	10.85	125.11	118.60
1	N	465	A	C4-C5-C6	10.85	122.42	117.00
1	N	495	A	N1-C6-N6	10.85	125.11	118.60
1	N	206	C	N3-C4-N4	10.84	125.59	118.00
1	N	483	C	O4'-C1'-N1	10.84	116.87	108.20
1	N	1312	G	C5-C6-O6	-10.84	122.10	128.60
1	N	747	A	C4-C5-N7	10.83	116.12	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1093	A	N1-C6-N6	10.83	125.10	118.60
1	N	1117	A	N1-C6-N6	10.83	125.10	118.60
1	N	1179	A	C5-C6-N6	-10.83	115.04	123.70
1	N	34	C	C6-N1-C2	-10.83	115.97	120.30
1	N	557	G	N1-C2-N3	-10.82	117.41	123.90
1	N	860	A	O4'-C1'-N9	10.82	116.86	108.20
1	N	129	A	N1-C2-N3	10.82	134.71	129.30
1	N	354	G	N1-C6-O6	10.82	126.39	119.90
1	N	1530	G	O4'-C1'-N9	10.81	116.85	108.20
1	N	1143	G	C4-C5-N7	10.81	115.12	110.80
1	N	1265	C	N3-C4-C5	-10.81	117.58	121.90
1	N	259	G	N1-C2-N3	-10.80	117.42	123.90
1	N	417	G	N1-C6-O6	10.80	126.38	119.90
1	N	964	A	C5-C6-N1	-10.80	112.30	117.70
1	N	990	C	O4'-C1'-N1	10.80	116.84	108.20
1	N	1153	G	C5-C6-O6	-10.80	122.12	128.60
1	N	173	U	N1-C2-N3	10.79	121.38	114.90
1	N	298	A	N9-C4-C5	-10.79	101.48	105.80
1	N	1261	A	C4-C5-N7	-10.79	105.31	110.70
1	N	246	A	N1-C6-N6	10.79	125.07	118.60
1	N	1484	C	N3-C4-N4	10.78	125.55	118.00
1	N	352	C	N3-C4-C5	-10.78	117.59	121.90
1	N	359	G	P-O3'-C3'	-10.78	106.77	119.70
1	N	583	A	C5-N7-C8	10.77	109.29	103.90
1	N	719	C	N3-C4-N4	10.77	125.54	118.00
1	N	1013	G	N1-C6-O6	10.77	126.36	119.90
1	N	1434	A	C5-C6-N6	-10.77	115.08	123.70
1	N	172	A	C4-C5-C6	10.77	122.39	117.00
1	N	486	U	P-O5'-C5'	-10.77	103.67	120.90
1	N	244	U	O4'-C1'-N1	10.77	116.81	108.20
1	N	976	G	C5'-C4'-O4'	10.76	122.02	109.10
1	N	799	G	C5-C6-O6	-10.76	122.14	128.60
1	N	1305	G	N1-C2-N3	-10.76	117.44	123.90
1	N	201	G	P-O3'-C3'	10.76	132.61	119.70
1	N	1033	G	N1-C2-N3	-10.76	117.45	123.90
1	N	572	A	C4-C5-C6	10.75	122.38	117.00
1	N	18	C	N3-C4-C5	-10.75	117.60	121.90
1	N	1359	C	N3-C4-C5	-10.75	117.60	121.90
1	N	245	U	C2-N3-C4	10.74	133.45	127.00
1	N	523	A	O4'-C1'-N9	10.74	116.80	108.20
1	N	195	A	N1-C6-N6	10.74	125.05	118.60
1	N	1336	C	C5-C6-N1	-10.74	115.63	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1218	C	C2-N1-C1'	10.74	130.61	118.80
1	N	1233	G	N1-C6-O6	10.74	126.34	119.90
1	N	8	A	C5-C6-N1	-10.73	112.34	117.70
1	N	403	C	N3-C4-C5	-10.73	117.61	121.90
1	N	681	A	N9-C4-C5	-10.72	101.51	105.80
1	N	1398	A	C5-C6-N6	-10.71	115.13	123.70
1	N	71	A	O4'-C1'-N9	10.70	116.76	108.20
1	N	712	A	C4-C5-N7	10.70	116.05	110.70
1	N	696	A	C2-N3-C4	10.70	115.95	110.60
1	N	1500	A	C5-C6-N6	-10.70	115.14	123.70
1	N	128	G	C5-C6-O6	-10.70	122.18	128.60
1	N	1408	A	N1-C2-N3	10.70	134.65	129.30
1	N	210	C	N3-C4-N4	10.69	125.49	118.00
1	N	292	G	C5-C6-O6	-10.69	122.19	128.60
1	N	468	A	C5-C6-N6	-10.69	115.15	123.70
1	N	767	A	C4'-C3'-C2'	-10.69	91.91	102.60
1	N	1304	G	N1-C6-O6	10.69	126.31	119.90
1	N	129	A	C2-N3-C4	-10.69	105.26	110.60
1	N	327	A	C5-C6-N6	-10.69	115.15	123.70
1	N	1170	A	C8-N9-C4	-10.69	101.53	105.80
1	N	1154	G	N1-C6-O6	10.69	126.31	119.90
1	N	888	G	O4'-C1'-N9	10.68	116.75	108.20
1	N	16	A	N9-C4-C5	10.68	110.07	105.80
1	N	110	C	C6-N1-C2	-10.67	116.03	120.30
1	N	550	G	C6-C5-N7	-10.67	124.00	130.40
1	N	1094	G	P-O3'-C3'	10.66	132.50	119.70
1	N	301	G	N1-C6-O6	10.66	126.30	119.90
1	N	481	G	C5-C6-O6	-10.66	122.20	128.60
1	N	742	G	O4'-C1'-N9	10.66	116.73	108.20
1	N	7	A	C4-C5-C6	10.65	122.33	117.00
1	N	1142	G	C6-C5-N7	-10.65	124.01	130.40
1	N	1362	A	C5-C6-N6	-10.65	115.18	123.70
1	N	129	A	N1-C6-N6	10.65	124.99	118.60
1	N	65	A	N1-C2-N3	10.64	134.62	129.30
1	N	183	C	P-O3'-C3'	10.64	132.47	119.70
1	N	1519	A	C5-C6-N1	-10.64	112.38	117.70
1	N	462	G	C5-C6-O6	-10.64	122.22	128.60
1	N	1342	C	C4-C5-C6	10.64	122.72	117.40
1	N	295	C	O4'-C1'-N1	10.63	116.71	108.20
1	N	1206	G	C6-C5-N7	-10.63	124.02	130.40
1	N	1517	G	C6-C5-N7	-10.63	124.02	130.40
1	N	524	G	N3-C2-N2	10.63	127.34	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	984	C	N3-C2-O2	10.63	129.34	121.90
1	N	1399	C	O4'-C1'-N1	10.62	116.70	108.20
1	N	1417	G	N7-C8-N9	10.62	118.41	113.10
1	N	873	A	C5-C6-N1	-10.62	112.39	117.70
1	N	794	A	C4-C5-C6	10.61	122.31	117.00
1	N	994	A	O4'-C1'-N9	10.61	116.69	108.20
1	N	363	A	C6-C5-N7	-10.61	124.87	132.30
1	N	1169	A	N1-C6-N6	10.61	124.96	118.60
1	N	1220	G	N1-C6-O6	10.61	126.26	119.90
1	N	348	G	C5-C6-O6	-10.60	122.24	128.60
1	N	1015	G	C4-C5-N7	-10.60	106.56	110.80
1	N	93	U	P-O3'-C3'	-10.60	106.98	119.70
1	N	1047	G	C4-C5-N7	-10.60	106.56	110.80
1	N	1180	A	N9-C4-C5	10.60	110.04	105.80
1	N	360	G	N1-C2-N3	-10.59	117.55	123.90
1	N	1312	G	N1-C6-O6	10.59	126.25	119.90
1	N	410	G	N9-C4-C5	10.59	109.64	105.40
1	N	605	U	O4'-C1'-N1	10.59	116.67	108.20
1	N	663	A	N1-C6-N6	10.59	124.95	118.60
1	N	889	A	C5-N7-C8	10.58	109.19	103.90
1	N	666	G	N9-C4-C5	10.58	109.63	105.40
1	N	776	G	O4'-C1'-N9	10.58	116.66	108.20
1	N	995	C	C5-C6-N1	10.58	126.29	121.00
1	N	361	G	C4-C5-N7	10.58	115.03	110.80
1	N	435	A	N3-C4-N9	10.58	135.86	127.40
1	N	1482	G	N3-C2-N2	10.57	127.30	119.90
1	N	854	U	N3-C4-O4	10.57	126.80	119.40
1	N	1364	U	O4'-C1'-N1	10.57	116.66	108.20
1	N	588	G	C6-C5-N7	-10.57	124.06	130.40
1	N	980	C	O4'-C1'-N1	10.57	116.66	108.20
1	N	1040	U	C2-N3-C4	10.57	133.34	127.00
1	N	1046	A	N1-C6-N6	10.57	124.94	118.60
1	N	170	U	C2-N3-C4	-10.57	120.66	127.00
1	N	973	G	C5-C6-O6	-10.57	122.26	128.60
1	N	1151	A	C5-C6-N1	-10.56	112.42	117.70
1	N	271	C	O4'-C1'-N1	10.55	116.64	108.20
1	N	21	G	N1-C6-O6	10.55	126.23	119.90
1	N	71	A	C5-C6-N6	-10.55	115.26	123.70
1	N	920	U	C5-C4-O4	-10.55	119.57	125.90
1	N	674	G	N1-C6-O6	10.55	126.23	119.90
1	N	858	G	C5-C6-O6	-10.54	122.28	128.60
1	N	1460	C	N3-C4-C5	-10.54	117.69	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	898	G	N9-C4-C5	10.53	109.61	105.40
1	N	1042	A	C5-C6-N6	-10.53	115.28	123.70
1	N	1046	A	C5-C6-N6	-10.53	115.28	123.70
1	N	596	A	P-O5'-C5'	10.53	137.74	120.90
1	N	889	A	N1-C6-N6	10.53	124.92	118.60
1	N	1348	U	O4'-C1'-N1	10.52	116.62	108.20
1	N	301	G	C5-C6-O6	-10.52	122.29	128.60
1	N	279	A	N1-C6-N6	10.52	124.91	118.60
1	N	377	G	N3-C4-C5	10.51	133.86	128.60
1	N	415	A	N1-C6-N6	10.51	124.90	118.60
1	N	782	A	C5-N7-C8	10.51	109.15	103.90
1	N	1188	A	C8-N9-C4	10.51	110.00	105.80
1	N	718	A	N1-C6-N6	10.51	124.90	118.60
1	N	1466	C	N3-C4-C5	-10.51	117.70	121.90
1	N	756	C	C4-C5-C6	10.50	122.65	117.40
1	N	833	G	C4-C5-N7	10.50	115.00	110.80
1	N	80	A	C5-C6-N6	-10.50	115.30	123.70
1	N	1379	G	N1-C2-N3	-10.50	117.60	123.90
1	N	43	C	C2-N3-C4	10.50	125.15	119.90
1	N	1491	G	C8-N9-C4	-10.49	102.20	106.40
1	N	917	G	O4'-C1'-N9	10.49	116.59	108.20
1	N	633	G	O4'-C1'-N9	10.49	116.59	108.20
1	N	1396	A	C4-C5-C6	10.48	122.24	117.00
1	N	403	C	N3-C4-N4	10.48	125.34	118.00
1	N	143	A	N1-C6-N6	10.48	124.89	118.60
1	N	985	C	C2-N3-C4	10.48	125.14	119.90
1	N	1013	G	N1-C2-N3	-10.48	117.61	123.90
1	N	705	G	C5-N7-C8	10.47	109.54	104.30
1	N	363	A	C5-C6-N1	-10.47	112.46	117.70
1	N	845	A	O4'-C1'-N9	10.47	116.58	108.20
1	N	1272	G	P-O3'-C3'	10.47	132.27	119.70
1	N	975	A	C4-C5-C6	10.47	122.23	117.00
1	N	476	U	O4'-C1'-N1	10.47	116.57	108.20
1	N	525	C	O4'-C1'-N1	10.47	116.57	108.20
1	N	1407	C	N3-C4-C5	-10.47	117.71	121.90
1	N	1099	G	C6-N1-C2	10.46	131.38	125.10
1	N	128	G	C2-N3-C4	10.46	117.13	111.90
1	N	809	G	N1-C6-O6	10.46	126.18	119.90
1	N	1014	A	O4'-C1'-N9	10.46	116.57	108.20
1	N	310	G	O4'-C1'-N9	10.46	116.56	108.20
1	N	109	A	C5-C6-N6	-10.45	115.34	123.70
1	N	1405	G	C5-C6-N1	10.45	116.73	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	104	G	C8-N9-C4	-10.45	102.22	106.40
1	N	1223	C	P-O3'-C3'	10.45	132.24	119.70
1	N	7	A	C5-C6-N1	-10.44	112.48	117.70
1	N	875	U	O4'-C1'-N1	10.44	116.55	108.20
1	N	1150	A	C5-C6-N6	-10.44	115.35	123.70
1	N	1271	A	O4'-C1'-N9	10.44	116.55	108.20
1	N	91	U	O4'-C1'-N1	10.44	116.55	108.20
1	N	732	C	O4'-C1'-N1	10.43	116.55	108.20
1	N	163	C	C4-C5-C6	10.43	122.61	117.40
1	N	348	G	C5-N7-C8	10.43	109.52	104.30
1	N	495	A	C2-N3-C4	-10.43	105.39	110.60
1	N	1408	A	N1-C6-N6	10.43	124.86	118.60
1	N	1508	A	C5-N7-C8	10.43	109.11	103.90
1	N	552	U	C5-C6-N1	10.43	127.91	122.70
1	N	570	G	C4-C5-N7	-10.43	106.63	110.80
1	N	349	A	O4'-C1'-N9	10.42	116.54	108.20
1	N	794	A	N1-C6-N6	10.42	124.85	118.60
1	N	1043	G	N1-C6-O6	10.42	126.15	119.90
1	N	544	G	O4'-C1'-N9	10.41	116.53	108.20
1	N	606	G	C5-C6-O6	-10.41	122.36	128.60
1	N	898	G	C2-N3-C4	10.40	117.10	111.90
1	N	1448	C	P-O3'-C3'	10.40	132.18	119.70
1	N	19	A	O4'-C1'-N9	10.40	116.52	108.20
1	N	896	C	P-O5'-C5'	10.40	137.53	120.90
1	N	1046	A	C2-N3-C4	10.40	115.80	110.60
1	N	219	U	C2-N3-C4	-10.39	120.76	127.00
1	N	931	C	N3-C4-C5	-10.39	117.74	121.90
1	N	1064	G	O4'-C1'-N9	10.39	116.51	108.20
1	N	1310	G	N1-C6-O6	10.39	126.13	119.90
1	N	497	G	O4'-C1'-N9	10.39	116.51	108.20
1	N	645	G	C6-C5-N7	-10.39	124.17	130.40
1	N	867	G	N1-C6-O6	10.39	126.13	119.90
1	N	1206	G	C5-C6-O6	-10.38	122.37	128.60
1	N	282	A	C5-C6-N1	-10.38	112.51	117.70
1	N	1114	C	O4'-C1'-N1	10.38	116.50	108.20
1	N	19	A	C5-N7-C8	10.37	109.08	103.90
1	N	727	G	C5-C6-O6	-10.37	122.38	128.60
1	N	1428	A	C5-C6-N1	-10.37	112.52	117.70
1	N	549	C	C5-C6-N1	-10.37	115.82	121.00
1	N	641	U	P-O3'-C3'	10.37	132.14	119.70
1	N	1487	G	N9-C4-C5	-10.37	101.25	105.40
1	N	1490	U	C2-N3-C4	-10.37	120.78	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	783	C	C5-C6-N1	10.37	126.18	121.00
1	N	974	A	C4-C5-C6	10.36	122.18	117.00
1	N	1050	G	N1-C6-O6	10.36	126.12	119.90
1	N	1121	U	N3-C4-O4	10.36	126.65	119.40
1	N	1452	C	N3-C4-C5	-10.36	117.76	121.90
1	N	815	A	C5-C6-N1	-10.36	112.52	117.70
1	N	458	U	N3-C4-O4	10.36	126.65	119.40
1	N	1108	G	C4-C5-N7	-10.35	106.66	110.80
1	N	391	G	N1-C6-O6	10.35	126.11	119.90
1	N	451	A	N1-C6-N6	10.34	124.81	118.60
1	N	1120	C	N3-C4-C5	-10.34	117.76	121.90
1	N	1196	A	P-O3'-C3'	-10.34	107.29	119.70
1	N	1437	A	C5-C6-N6	-10.34	115.42	123.70
1	N	777	A	O4'-C1'-N9	10.34	116.47	108.20
1	N	878	A	C4-C5-N7	-10.34	105.53	110.70
1	N	819	A	N1-C6-N6	10.34	124.80	118.60
1	N	120	A	C5-C6-N6	-10.33	115.43	123.70
1	N	924	C	N3-C4-N4	10.33	125.23	118.00
1	N	74	A	C5-C6-N1	-10.33	112.53	117.70
1	N	544	G	C6-C5-N7	-10.33	124.20	130.40
1	N	138	G	C5-C6-O6	-10.33	122.40	128.60
1	N	1516	G	C5-C6-O6	-10.33	122.40	128.60
1	N	817	C	C4-C5-C6	10.32	122.56	117.40
1	N	1033	G	N7-C8-N9	10.32	118.26	113.10
1	N	1044	A	C4-C5-C6	10.32	122.16	117.00
1	N	1216	A	C5-N7-C8	10.32	109.06	103.90
1	N	787	A	C8-N9-C4	-10.32	101.67	105.80
1	N	1044	A	C5-C6-N1	-10.32	112.54	117.70
1	N	1491	G	N9-C4-C5	10.32	109.53	105.40
1	N	183	C	N3-C4-N4	10.31	125.22	118.00
1	N	1385	G	N1-C6-O6	10.31	126.09	119.90
1	N	1301	U	N3-C2-O2	10.31	129.42	122.20
1	N	242	G	C5-C6-O6	-10.31	122.42	128.60
1	N	1497	G	O4'-C1'-N9	10.30	116.44	108.20
1	N	2	A	C5-C6-N1	-10.30	112.55	117.70
1	N	777	A	C5-C6-N1	-10.30	112.55	117.70
1	N	1006	G	N1-C6-O6	10.30	126.08	119.90
1	N	1510	C	N3-C4-C5	-10.30	117.78	121.90
1	N	846	G	C6-C5-N7	-10.28	124.23	130.40
1	N	1419	G	C5-C6-N1	-10.28	106.36	111.50
1	N	184	G	N1-C6-O6	10.28	126.07	119.90
1	N	306	A	C4-C5-C6	10.28	122.14	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1224	U	P-O3'-C3'	10.28	132.03	119.70
1	N	1279	G	N1-C6-O6	10.27	126.06	119.90
1	N	227	G	C5-C6-O6	-10.27	122.44	128.60
1	N	298	A	C8-N9-C4	10.27	109.91	105.80
1	N	332	G	N1-C6-O6	10.27	126.06	119.90
1	N	523	A	C5-C6-N6	-10.27	115.49	123.70
1	N	754	C	N3-C4-C5	-10.27	117.79	121.90
1	N	1493	A	C4-C5-C6	10.27	122.13	117.00
1	N	119	A	N1-C6-N6	10.26	124.76	118.60
1	N	571	U	N1-C2-N3	-10.26	108.74	114.90
1	N	578	C	C2-N3-C4	10.26	125.03	119.90
1	N	1077	G	O4'-C1'-N9	10.26	116.41	108.20
1	N	191	G	O4'-C1'-N9	10.26	116.41	108.20
1	N	227	G	N1-C6-O6	10.26	126.05	119.90
1	N	879	C	N3-C4-N4	10.26	125.18	118.00
1	N	1188	A	P-O3'-C3'	10.26	132.01	119.70
1	N	1316	G	C5-C6-O6	-10.26	122.45	128.60
1	N	78	A	C5-N7-C8	10.25	109.03	103.90
1	N	1022	A	C6-N1-C2	10.25	124.75	118.60
1	N	898	G	N3-C4-C5	-10.25	123.47	128.60
1	N	487	A	C5-C6-N1	-10.25	112.58	117.70
1	N	620	C	C6-N1-C2	-10.25	116.20	120.30
1	N	729	A	C4-C5-N7	-10.25	105.58	110.70
1	N	1079	G	C5-N7-C8	10.25	109.42	104.30
1	N	1086	U	O5'-C5'-C4'	10.24	131.16	111.70
1	N	1234	C	C6-N1-C2	-10.24	116.20	120.30
1	N	67	C	C2-N3-C4	10.24	125.02	119.90
1	N	706	A	C5-C6-N6	-10.24	115.51	123.70
1	N	1103	C	C6-N1-C2	-10.24	116.20	120.30
1	N	201	G	C3'-C2'-C1'	10.24	109.69	101.50
1	N	1015	G	C5-N7-C8	10.24	109.42	104.30
1	N	727	G	N1-C6-O6	10.23	126.04	119.90
1	N	1049	U	P-O3'-C3'	10.23	131.97	119.70
1	N	1094	G	C5-C6-O6	-10.23	122.46	128.60
1	N	494	G	C6-C5-N7	-10.23	124.26	130.40
1	N	1021	A	O4'-C1'-N9	10.23	116.38	108.20
1	N	1372	U	C5-C4-O4	-10.23	119.76	125.90
1	N	685	G	C5-C6-O6	-10.22	122.47	128.60
1	N	1013	G	N3-C4-C5	-10.22	123.49	128.60
1	N	1153	G	C6-C5-N7	-10.22	124.27	130.40
1	N	28	A	C6-N1-C2	10.21	124.73	118.60
1	N	829	G	C5-C6-O6	-10.21	122.47	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1106	G	O4'-C1'-N9	10.21	116.37	108.20
1	N	1195	C	C2-N3-C4	10.21	125.01	119.90
1	N	378	G	N1-C6-O6	10.21	126.03	119.90
1	N	313	A	C5-C6-N1	-10.21	112.60	117.70
1	N	839	C	C4-C5-C6	10.21	122.50	117.40
1	N	1253	G	C4-C5-N7	10.21	114.88	110.80
1	N	811	C	N3-C4-N4	10.20	125.14	118.00
1	N	839	C	N3-C4-C5	-10.20	117.82	121.90
1	N	864	A	N1-C2-N3	10.19	134.40	129.30
1	N	11	G	C6-C5-N7	-10.19	124.28	130.40
1	N	1222	G	N7-C8-N9	-10.19	108.00	113.10
1	N	981	U	C5-C6-N1	10.19	127.79	122.70
1	N	340	U	C5-C4-O4	-10.19	119.79	125.90
1	N	1334	G	O4'-C1'-N9	10.18	116.34	108.20
1	N	462	G	N1-C2-N3	-10.18	117.80	123.90
1	N	478	A	C5-C6-N6	-10.18	115.56	123.70
1	N	503	C	O4'-C1'-N1	10.17	116.34	108.20
1	N	1390	U	P-O3'-C3'	10.17	131.91	119.70
1	N	1318	A	C5-C6-N1	-10.17	112.62	117.70
1	N	777	A	C4-C5-C6	10.16	122.08	117.00
1	N	869	G	O4'-C1'-N9	10.16	116.33	108.20
1	N	828	U	O4'-C1'-N1	10.16	116.33	108.20
1	N	75	G	O4'-C1'-N9	10.15	116.32	108.20
1	N	128	G	N1-C2-N3	-10.15	117.81	123.90
1	N	555	U	C4-C5-C6	-10.15	113.61	119.70
1	N	1268	G	C5-C6-N1	-10.15	106.43	111.50
1	N	1417	G	C6-C5-N7	-10.15	124.31	130.40
1	N	33	A	C8-N9-C4	-10.14	101.74	105.80
1	N	374	A	O4'-C1'-N9	10.14	116.31	108.20
1	N	284	C	P-O5'-C5'	10.13	137.12	120.90
1	N	1230	C	O4'-C1'-N1	10.13	116.30	108.20
1	N	1275	A	C6-C5-N7	-10.13	125.21	132.30
1	N	184	G	C6-N1-C2	10.13	131.18	125.10
1	N	459	A	C4-C5-C6	10.13	122.06	117.00
1	N	350	G	O4'-C1'-N9	10.12	116.30	108.20
1	N	906	A	C5-C6-N1	-10.13	112.64	117.70
1	N	198	G	C5-C6-N1	-10.12	106.44	111.50
1	N	253	A	N1-C6-N6	10.12	124.67	118.60
1	N	703	G	C5-C6-O6	-10.12	122.53	128.60
1	N	230	G	O4'-C1'-N9	10.12	116.29	108.20
1	N	712	A	C5-C6-N6	-10.12	115.61	123.70
1	N	1096	C	O4'-C1'-N1	10.12	116.29	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1432	G	C5-C6-N1	-10.12	106.44	111.50
1	N	864	A	C5-C6-N6	-10.11	115.61	123.70
1	N	139	A	C5-C6-N1	-10.11	112.64	117.70
1	N	325	A	O4'-C1'-N9	10.11	116.29	108.20
1	N	1318	A	N7-C8-N9	-10.11	108.75	113.80
1	N	993	G	C8-N9-C1'	-10.11	113.86	127.00
1	N	441	A	N9-C4-C5	-10.10	101.76	105.80
1	N	843	U	C1'-O4'-C4'	-10.10	101.82	109.90
1	N	1037	C	C6-N1-C2	10.10	124.34	120.30
1	N	1412	C	O4'-C1'-N1	10.10	116.28	108.20
1	N	770	C	C5'-C4'-C3'	10.10	132.16	116.00
1	N	98	A	N9-C4-C5	10.10	109.84	105.80
1	N	544	G	C8-N9-C4	-10.10	102.36	106.40
1	N	1158	C	C6-N1-C2	-10.10	116.26	120.30
1	N	866	C	P-O3'-C3'	10.09	131.81	119.70
1	N	279	A	C4-C5-C6	10.09	122.05	117.00
1	N	670	G	O4'-C1'-N9	10.09	116.27	108.20
1	N	1130	A	C5-C6-N6	-10.09	115.63	123.70
1	N	1285	A	N1-C6-N6	10.09	124.65	118.60
1	N	633	G	N1-C6-O6	10.09	125.95	119.90
1	N	1152	A	O4'-C1'-N9	10.09	116.27	108.20
1	N	735	C	C6-N1-C2	-10.09	116.27	120.30
1	N	492	C	C2-N3-C4	10.08	124.94	119.90
1	N	977	A	C5-C6-N6	-10.08	115.63	123.70
1	N	1368	A	O4'-C1'-N9	10.08	116.27	108.20
1	N	66	A	C5-C6-N6	-10.08	115.64	123.70
1	N	296	U	N3-C2-O2	10.08	129.26	122.20
1	N	1082	A	C4-C5-C6	10.08	122.04	117.00
1	N	660	C	O4'-C1'-N1	10.07	116.26	108.20
1	N	300	A	C5-C6-N6	-10.07	115.64	123.70
1	N	692	U	O4'-C1'-N1	10.07	116.25	108.20
1	N	607	A	C5-C6-N6	-10.07	115.65	123.70
1	N	769	G	C5-C6-O6	-10.07	122.56	128.60
1	N	241	G	N1-C6-O6	10.06	125.94	119.90
1	N	1486	G	N1-C2-N3	-10.06	117.86	123.90
1	N	823	C	N3-C4-C5	-10.06	117.88	121.90
1	N	482	A	N1-C6-N6	10.06	124.64	118.60
1	N	795	C	N3-C4-N4	10.06	125.04	118.00
1	N	840	C	C5-C6-N1	10.05	126.03	121.00
1	N	1222	G	C5-C6-O6	-10.06	122.57	128.60
1	N	1229	A	C4-C5-C6	10.05	122.03	117.00
1	N	583	A	C4-C5-C6	10.05	122.03	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	829	G	N1-C2-N3	-10.05	117.87	123.90
1	N	1305	G	O4'-C1'-N9	10.05	116.24	108.20
1	N	81	A	C4-C5-C6	10.05	122.02	117.00
1	N	1287	A	N1-C2-N3	-10.05	124.28	129.30
1	N	292	G	N1-C2-N3	-10.04	117.88	123.90
1	N	803	G	N7-C8-N9	10.04	118.12	113.10
1	N	1343	G	N1-C6-O6	10.04	125.93	119.90
1	N	288	A	C4-C5-C6	10.04	122.02	117.00
1	N	908	A	C4-C5-N7	-10.04	105.68	110.70
1	N	1442	G	N1-C6-O6	10.04	125.92	119.90
1	N	1274	A	P-O3'-C3'	-10.04	107.66	119.70
1	N	293	G	C5-C6-O6	-10.04	122.58	128.60
1	N	484	G	O4'-C1'-N9	10.04	116.23	108.20
1	N	352	C	C6-N1-C1'	-10.03	108.77	120.80
1	N	136	C	O4'-C1'-N1	10.02	116.22	108.20
1	N	1287	A	C6-C5-N7	-10.02	125.28	132.30
1	N	1432	G	N1-C6-O6	10.02	125.91	119.90
1	N	259	G	N3-C2-N2	10.02	126.91	119.90
1	N	518	C	C5-C6-N1	10.02	126.01	121.00
1	N	1139	G	P-O3'-C3'	10.02	131.72	119.70
1	N	732	C	N3-C4-N4	10.02	125.01	118.00
1	N	143	A	C8-N9-C4	-10.01	101.80	105.80
1	N	1031	C	N3-C4-N4	10.01	125.01	118.00
1	N	991	U	O4'-C1'-N1	10.01	116.21	108.20
1	N	1198	G	N1-C6-O6	10.01	125.91	119.90
1	N	72	A	O4'-C1'-N9	10.01	116.21	108.20
1	N	186	C	N3-C4-C5	-10.01	117.90	121.90
1	N	213	G	N3-C4-C5	-10.01	123.60	128.60
1	N	735	C	N3-C4-N4	10.01	125.01	118.00
1	N	144	G	C5-C6-O6	-10.00	122.60	128.60
1	N	250	A	C5-C6-N6	-10.00	115.70	123.70
1	N	1091	U	O4'-C1'-N1	10.00	116.20	108.20
1	N	285	C	C6-N1-C2	-10.00	116.30	120.30
1	N	640	A	C4-C5-C6	10.00	122.00	117.00
1	N	495	A	C4-C5-C6	9.99	122.00	117.00
1	N	885	G	C5-C6-O6	-9.99	122.60	128.60
1	N	544	G	C5-C6-O6	-9.99	122.61	128.60
1	N	1042	A	P-O5'-C5'	9.99	136.88	120.90
1	N	750	C	C6-N1-C2	-9.99	116.31	120.30
1	N	637	C	C5-C6-N1	9.98	125.99	121.00
1	N	1284	C	O4'-C1'-N1	9.98	116.19	108.20
1	N	1531	A	N1-C6-N6	9.98	124.59	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	170	U	O4'-C1'-N1	9.98	116.19	108.20
1	N	380	G	C4-N9-C1'	-9.98	113.53	126.50
1	N	1154	G	C5-C6-O6	-9.98	122.61	128.60
1	N	142	G	C8-N9-C4	-9.98	102.41	106.40
1	N	364	A	N7-C8-N9	-9.98	108.81	113.80
1	N	982	U	C2-N3-C4	-9.98	121.01	127.00
1	N	1271	A	C5-C6-N6	-9.98	115.72	123.70
1	N	1372	U	O4'-C1'-N1	9.97	116.18	108.20
1	N	143	A	C6-N1-C2	-9.97	112.62	118.60
1	N	961	U	O4'-C1'-N1	9.97	116.18	108.20
1	N	1178	G	N7-C8-N9	9.97	118.09	113.10
1	N	1432	G	C6-N1-C2	9.97	131.08	125.10
1	N	1246	A	N1-C6-N6	9.97	124.58	118.60
1	N	803	G	N1-C6-O6	9.96	125.88	119.90
1	N	862	C	N3-C4-C5	-9.96	117.92	121.90
1	N	1164	G	N1-C6-O6	9.96	125.88	119.90
1	N	1531	A	C5-C6-N1	-9.96	112.72	117.70
1	N	679	C	N3-C4-C5	-9.95	117.92	121.90
1	N	1201	A	N1-C6-N6	9.95	124.57	118.60
1	N	474	G	C5-C6-O6	-9.95	122.63	128.60
1	N	569	C	N3-C4-C5	-9.95	117.92	121.90
1	N	802	A	C8-N9-C4	-9.94	101.82	105.80
1	N	923	A	C5-C6-N1	-9.95	112.73	117.70
1	N	329	A	N1-C6-N6	9.94	124.57	118.60
1	N	418	C	C5-C6-N1	9.94	125.97	121.00
1	N	790	A	N1-C2-N3	9.94	134.27	129.30
1	N	213	G	N3-C4-N9	9.94	131.96	126.00
1	N	201	G	O4'-C1'-N9	9.94	116.15	108.20
1	N	1270	G	N7-C8-N9	9.94	118.07	113.10
1	N	472	U	N3-C4-C5	-9.93	108.64	114.60
1	N	1364	U	N3-C2-O2	9.93	129.15	122.20
1	N	1456	A	N1-C2-N3	-9.93	124.34	129.30
1	N	1505	G	N1-C6-O6	9.93	125.86	119.90
1	N	217	C	C2-N3-C4	9.92	124.86	119.90
1	N	493	A	C5-C6-N1	-9.92	112.74	117.70
1	N	1036	A	C5-C6-N1	-9.92	112.74	117.70
1	N	819	A	O4'-C1'-N9	9.92	116.14	108.20
1	N	948	C	N3-C4-C5	-9.91	117.93	121.90
1	N	631	C	N3-C4-C5	-9.91	117.94	121.90
1	N	1031	C	N3-C2-O2	-9.91	114.96	121.90
1	N	149	A	C4-C5-C6	9.90	121.95	117.00
1	N	353	A	P-O3'-C3'	9.90	131.59	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1293	C	C6-N1-C2	-9.90	116.34	120.30
1	N	281	G	P-O3'-C3'	9.90	131.58	119.70
1	N	954	G	C5-C6-N1	-9.90	106.55	111.50
1	N	102	G	N1-C6-O6	9.90	125.84	119.90
1	N	216	U	O4'-C1'-N1	9.89	116.11	108.20
1	N	1201	A	N1-C2-N3	9.89	134.25	129.30
1	N	356	A	C5-C6-N1	-9.89	112.75	117.70
1	N	1449	C	O4'-C1'-N1	9.89	116.11	108.20
1	N	764	C	O4'-C1'-N1	9.89	116.11	108.20
1	N	480	U	P-O3'-C3'	9.88	131.56	119.70
1	N	868	C	C5-C6-N1	9.88	125.94	121.00
1	N	1416	G	N1-C2-N3	-9.88	117.97	123.90
1	N	34	C	O4'-C1'-N1	9.88	116.10	108.20
1	N	1409	C	O4'-C1'-N1	9.88	116.10	108.20
1	N	1374	A	O4'-C1'-N9	9.88	116.10	108.20
1	N	453	G	C6-C5-N7	-9.87	124.48	130.40
1	N	658	C	O4'-C1'-N1	9.87	116.10	108.20
1	N	1179	A	C4-C5-C6	9.87	121.94	117.00
1	N	1333	A	C8-N9-C4	-9.86	101.86	105.80
1	N	494	G	O4'-C1'-N9	9.86	116.09	108.20
1	N	753	A	C4-C5-C6	9.86	121.93	117.00
1	N	1125	U	O4'-C1'-N1	9.86	116.08	108.20
1	N	1162	C	N3-C4-N4	9.86	124.90	118.00
1	N	1311	A	C5-C6-N6	-9.86	115.81	123.70
1	N	174	A	C4-C5-C6	9.85	121.92	117.00
1	N	205	A	N1-C6-N6	9.85	124.51	118.60
1	N	507	C	C6-N1-C2	-9.85	116.36	120.30
1	N	905	U	C6-N1-C2	-9.85	115.09	121.00
1	N	932	C	N3-C4-N4	9.85	124.90	118.00
1	N	1247	U	O4'-C1'-N1	9.85	116.08	108.20
1	N	1276	G	O4'-C1'-N9	9.85	116.08	108.20
1	N	1278	G	N1-C2-N3	-9.85	117.99	123.90
1	N	371	A	C4-C5-C6	9.84	121.92	117.00
1	N	736	C	O4'-C1'-N1	9.84	116.08	108.20
1	N	1233	G	O4'-C1'-N9	9.84	116.08	108.20
1	N	1421	G	O4'-C1'-N9	9.84	116.07	108.20
1	N	588	G	C4-C5-C6	9.84	124.70	118.80
1	N	627	G	C6-C5-N7	-9.84	124.50	130.40
1	N	1138	G	N1-C2-N3	-9.84	118.00	123.90
1	N	623	C	N3-C4-C5	-9.84	117.97	121.90
1	N	1460	C	C6-N1-C2	-9.84	116.36	120.30
1	N	1462	C	C5-C4-N4	-9.84	113.31	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	189	A	N9-C4-C5	-9.83	101.87	105.80
1	N	338	A	O4'-C1'-N9	9.83	116.07	108.20
1	N	277	C	N3-C4-C5	-9.83	117.97	121.90
1	N	972	C	O4'-C1'-N1	9.83	116.06	108.20
1	N	423	G	C5-N7-C8	-9.83	99.39	104.30
1	N	633	G	P-O5'-C5'	9.83	136.62	120.90
1	N	993	G	C4-N9-C1'	9.83	139.28	126.50
1	N	1029	U	O4'-C1'-N1	9.82	116.06	108.20
1	N	105	G	C5-C6-O6	9.82	134.49	128.60
1	N	813	U	N3-C4-O4	9.82	126.28	119.40
1	N	529	G	C5-C6-O6	-9.82	122.71	128.60
1	N	1309	G	N1-C6-O6	9.82	125.79	119.90
1	N	212	G	C6-C5-N7	-9.82	124.51	130.40
1	N	83	C	O4'-C1'-N1	9.81	116.05	108.20
1	N	181	A	N9-C4-C5	-9.81	101.88	105.80
1	N	335	C	N3-C4-C5	-9.81	117.98	121.90
1	N	880	C	C2-N3-C4	9.81	124.80	119.90
1	N	681	A	O4'-C1'-N9	9.81	116.05	108.20
1	N	740	U	O4'-C1'-N1	9.80	116.04	108.20
1	N	1410	A	C4-C5-N7	-9.80	105.80	110.70
1	N	389	A	O4'-C1'-N9	9.80	116.04	108.20
1	N	532	A	N1-C2-N3	9.80	134.20	129.30
1	N	812	G	C4-C5-C6	9.79	124.68	118.80
1	N	480	U	O4'-C1'-N1	9.79	116.03	108.20
1	N	1325	C	O4'-C1'-N1	9.79	116.03	108.20
1	N	1236	A	C4-C5-C6	9.79	121.89	117.00
1	N	1047	G	O4'-C1'-N9	9.79	116.03	108.20
1	N	121	U	C5-C6-N1	9.78	127.59	122.70
1	N	466	A	C5-C6-N1	-9.78	112.81	117.70
1	N	1170	A	N1-C2-N3	9.78	134.19	129.30
1	N	480	U	N1-C2-N3	9.78	120.77	114.90
1	N	1011	C	P-O5'-C5'	9.78	136.55	120.90
1	N	1304	G	O4'-C1'-N9	9.78	116.02	108.20
1	N	290	C	O4'-C1'-N1	9.77	116.02	108.20
1	N	181	A	N1-C6-N6	9.77	124.46	118.60
1	N	897	C	C6-N1-C2	-9.77	116.39	120.30
1	N	1198	G	C5-N7-C8	-9.77	99.42	104.30
1	N	1231	G	P-O3'-C3'	9.77	131.42	119.70
1	N	1447	A	C5-C6-N6	-9.77	115.89	123.70
1	N	1074	G	C5-C6-O6	-9.76	122.74	128.60
1	N	60	A	C5-C6-N1	-9.76	112.82	117.70
1	N	570	G	N1-C6-O6	9.76	125.76	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	941	G	N1-C6-O6	9.76	125.76	119.90
1	N	52	C	N3-C4-N4	9.76	124.83	118.00
1	N	70	U	P-O3'-C3'	9.76	131.41	119.70
1	N	1239	A	N1-C6-N6	9.76	124.45	118.60
1	N	842	U	N1-C2-O2	9.75	129.63	122.80
1	N	65	A	C4-C5-C6	9.75	121.87	117.00
1	N	474	G	C8-N9-C4	-9.75	102.50	106.40
1	N	1323	G	N1-C2-N3	-9.75	118.05	123.90
1	N	1502	A	N3-C4-C5	-9.75	119.98	126.80
1	N	253	A	O4'-C1'-N9	9.74	116.00	108.20
1	N	268	U	O4'-C1'-N1	9.74	116.00	108.20
1	N	446	G	O4'-C1'-N9	9.74	115.99	108.20
1	N	865	A	C5-C6-N1	-9.74	112.83	117.70
1	N	1001	C	C5-C4-N4	-9.73	113.39	120.20
1	N	824	G	C2-N3-C4	-9.73	107.03	111.90
1	N	1324	A	C2-N3-C4	-9.73	105.74	110.60
1	N	74	A	C6-N1-C2	9.72	124.43	118.60
1	N	557	G	N3-C4-N9	-9.72	120.17	126.00
1	N	1097	C	N3-C4-C5	-9.72	118.01	121.90
1	N	305	G	P-O3'-C3'	9.72	131.36	119.70
1	N	672	U	O4'-C1'-N1	9.72	115.97	108.20
1	N	784	A	C5-C6-N6	-9.72	115.93	123.70
1	N	1072	G	N1-C6-O6	9.72	125.73	119.90
1	N	1482	G	N1-C6-O6	9.72	125.73	119.90
1	N	821	G	C2-N3-C4	9.71	116.76	111.90
1	N	78	A	N7-C8-N9	-9.71	108.94	113.80
1	N	704	A	N9-C4-C5	9.71	109.69	105.80
1	N	378	G	O4'-C1'-N9	9.71	115.97	108.20
1	N	1331	G	O4'-C1'-N9	9.71	115.97	108.20
1	N	565	U	O4'-C1'-N1	9.70	115.96	108.20
1	N	1096	C	P-O5'-C5'	9.70	136.42	120.90
1	N	1482	G	C6-C5-N7	-9.70	124.58	130.40
1	N	659	U	O4'-C1'-N1	9.70	115.96	108.20
1	N	1241	G	O4'-C1'-N9	9.70	115.96	108.20
1	N	1432	G	C8-N9-C4	9.70	110.28	106.40
1	N	791	G	N1-C2-N3	-9.69	118.08	123.90
1	N	64	G	N1-C6-O6	9.69	125.71	119.90
1	N	156	C	C5-C6-N1	9.69	125.84	121.00
1	N	1263	C	N3-C4-C5	-9.69	118.02	121.90
1	N	992	U	C5'-C4'-C3'	9.69	131.50	116.00
1	N	537	G	N1-C2-N3	-9.68	118.09	123.90
1	N	537	G	N3-C2-N2	9.68	126.68	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1040	U	C5-C4-O4	9.68	131.71	125.90
1	N	1149	C	N3-C4-C5	-9.68	118.03	121.90
1	N	8	A	C4-C5-C6	9.67	121.84	117.00
1	N	192	A	C8-N9-C4	-9.67	101.93	105.80
1	N	197	A	P-O5'-C5'	9.67	136.38	120.90
1	N	1405	G	N1-C2-N3	-9.67	118.10	123.90
1	N	133	U	C5-C6-N1	9.67	127.53	122.70
1	N	902	G	C5-C6-N1	-9.67	106.67	111.50
1	N	1478	U	O4'-C1'-N1	9.67	115.93	108.20
1	N	45	G	C5-C6-N1	-9.66	106.67	111.50
1	N	345	C	O4'-C1'-N1	9.66	115.93	108.20
1	N	603	U	C5-C6-N1	9.66	127.53	122.70
1	N	1260	G	C4-C5-N7	9.66	114.66	110.80
1	N	283	U	C5'-C4'-O4'	9.66	120.69	109.10
1	N	109	A	C6-N1-C2	-9.65	112.81	118.60
1	N	600	A	C5-C6-N6	-9.65	115.98	123.70
1	N	621	A	N1-C6-N6	9.65	124.39	118.60
1	N	66	A	C4-C5-C6	9.65	121.83	117.00
1	N	1379	G	C5-C6-O6	-9.65	122.81	128.60
1	N	1356	G	C6-C5-N7	-9.65	124.61	130.40
1	N	1534	A	N1-C6-N6	9.65	124.39	118.60
1	N	726	C	N3-C4-C5	-9.64	118.04	121.90
1	N	1338	G	N3-C2-N2	9.64	126.65	119.90
1	N	1534	A	O4'-C1'-N9	9.64	115.92	108.20
1	N	1062	U	N1-C2-O2	-9.64	116.05	122.80
1	N	923	A	N3-C4-C5	-9.64	120.05	126.80
1	N	1259	C	N3-C4-N4	9.64	124.75	118.00
1	N	1521	C	C2-N3-C4	9.64	124.72	119.90
1	N	95	C	O4'-C1'-N1	9.64	115.91	108.20
1	N	300	A	C5-C6-N1	-9.63	112.88	117.70
1	N	549	C	P-O5'-C5'	9.63	136.31	120.90
1	N	1457	G	C6-C5-N7	-9.63	124.62	130.40
1	N	1234	C	C2-N3-C4	-9.63	115.09	119.90
1	N	56	U	O4'-C1'-N1	9.63	115.90	108.20
1	N	873	A	N1-C6-N6	9.62	124.37	118.60
1	N	1081	A	C5-C6-N1	-9.62	112.89	117.70
1	N	1119	C	N3-C4-N4	9.62	124.74	118.00
1	N	1092	A	N1-C6-N6	9.62	124.37	118.60
1	N	937	A	N1-C6-N6	9.62	124.37	118.60
1	N	1374	A	C5-C6-N6	-9.62	116.01	123.70
1	N	689	C	C5-C6-N1	9.62	125.81	121.00
1	N	695	A	C6-C5-N7	-9.62	125.57	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	734	G	C5-C6-O6	-9.62	122.83	128.60
1	N	1257	A	C8-N9-C4	-9.61	101.96	105.80
1	N	61	G	C4-C5-N7	-9.61	106.96	110.80
1	N	488	C	C2-N3-C4	9.61	124.70	119.90
1	N	251	G	P-O3'-C3'	9.61	131.23	119.70
1	N	443	C	C6-N1-C2	9.60	124.14	120.30
1	N	1344	C	O4'-C1'-N1	9.60	115.88	108.20
1	N	1052	U	N1-C2-N3	-9.60	109.14	114.90
1	N	906	A	O4'-C1'-N9	9.60	115.88	108.20
1	N	908	A	C5-C6-N1	-9.60	112.90	117.70
1	N	1057	G	C5-C6-O6	-9.60	122.84	128.60
1	N	1139	G	O3'-P-O5'	-9.60	85.77	104.00
1	N	1204	A	C4-C5-C6	9.59	121.80	117.00
1	N	1386	G	C5-C6-N1	-9.59	106.70	111.50
1	N	1198	G	C5-C6-O6	-9.59	122.85	128.60
1	N	603	U	O4'-C1'-N1	9.59	115.87	108.20
1	N	1279	G	C5-N7-C8	-9.59	99.51	104.30
1	N	557	G	C6-N1-C2	9.58	130.85	125.10
1	N	1089	G	N1-C6-O6	9.58	125.65	119.90
1	N	1288	A	N1-C6-N6	9.58	124.35	118.60
1	N	853	C	C5-C6-N1	9.58	125.79	121.00
1	N	384	G	N1-C6-O6	9.58	125.65	119.90
1	N	416	G	C6-C5-N7	-9.58	124.65	130.40
1	N	794	A	C4'-C3'-C2'	-9.58	93.02	102.60
1	N	103	U	O4'-C1'-N1	9.58	115.86	108.20
1	N	1351	U	C5-C4-O4	-9.58	120.15	125.90
1	N	757	U	P-O5'-C5'	9.57	136.22	120.90
1	N	25	C	O4'-C1'-N1	9.57	115.86	108.20
1	N	283	U	P-O3'-C3'	-9.57	108.21	119.70
1	N	293	G	C8-N9-C4	-9.57	102.57	106.40
1	N	913	A	N9-C4-C5	9.57	109.63	105.80
1	N	160	A	C2-N3-C4	-9.57	105.82	110.60
1	N	444	G	C5-C6-O6	-9.57	122.86	128.60
1	N	1119	C	N3-C4-C5	-9.57	118.07	121.90
1	N	424	G	N1-C6-O6	9.56	125.64	119.90
1	N	1218	C	C2-N3-C4	9.56	124.68	119.90
1	N	993	G	N1-C6-O6	9.56	125.63	119.90
1	N	1245	C	N3-C4-C5	-9.56	118.08	121.90
1	N	454	G	C5-C6-N1	-9.55	106.72	111.50
1	N	498	A	C6-C5-N7	-9.55	125.61	132.30
1	N	116	A	N1-C2-N3	9.55	134.07	129.30
1	N	461	A	C4-C5-C6	9.55	121.78	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	606	G	C6-C5-N7	-9.55	124.67	130.40
1	N	1319	A	C2-N3-C4	-9.55	105.83	110.60
1	N	193	C	N1-C2-O2	9.54	124.63	118.90
1	N	415	A	O4'-C1'-N9	9.55	115.84	108.20
1	N	1448	C	C6-N1-C2	-9.55	116.48	120.30
1	N	411	A	C8-N9-C4	-9.54	101.98	105.80
1	N	128	G	O4'-C1'-N9	9.54	115.83	108.20
1	N	1061	G	P-O5'-C5'	9.54	136.16	120.90
1	N	1332	A	C5-C6-N6	-9.54	116.07	123.70
1	N	847	G	N1-C6-O6	9.53	125.62	119.90
1	N	877	G	N1-C6-O6	9.54	125.62	119.90
1	N	1224	U	N1-C2-O2	9.53	129.47	122.80
1	N	961	U	N1-C2-N3	-9.53	109.18	114.90
1	N	1111	A	C4-C5-C6	9.53	121.77	117.00
1	N	560	A	N9-C4-C5	9.52	109.61	105.80
1	N	465	A	C4-C5-N7	-9.52	105.94	110.70
1	N	882	C	N1-C2-O2	9.52	124.61	118.90
1	N	1023	U	O4'-C1'-N1	9.52	115.82	108.20
1	N	1245	C	O4'-C1'-N1	9.52	115.82	108.20
1	N	1523	G	C5-C6-O6	-9.52	122.89	128.60
1	N	32	A	C5-C6-N1	-9.52	112.94	117.70
1	N	177	G	C5-C6-O6	-9.52	122.89	128.60
1	N	466	A	C6-C5-N7	-9.52	125.64	132.30
1	N	885	G	C5-C6-N1	-9.51	106.74	111.50
1	N	1273	C	O4'-C1'-N1	9.51	115.81	108.20
1	N	258	G	O4'-C1'-N9	9.51	115.81	108.20
1	N	969	A	C5-C6-N1	-9.51	112.95	117.70
1	N	1410	A	C5-N7-C8	9.51	108.66	103.90
1	N	354	G	C4-C5-N7	9.51	114.60	110.80
1	N	787	A	P-O5'-C5'	9.51	136.11	120.90
1	N	1041	G	C2-N3-C4	9.51	116.65	111.90
1	N	1164	G	N1-C2-N3	-9.51	118.20	123.90
1	N	188	C	O4'-C1'-N1	9.50	115.80	108.20
1	N	569	C	O4'-C1'-N1	9.50	115.80	108.20
1	N	944	G	N1-C6-O6	9.50	125.60	119.90
1	N	45	G	C4-C5-C6	9.49	124.50	118.80
1	N	122	G	C6-C5-N7	-9.49	124.70	130.40
1	N	737	C	C4-C5-C6	-9.49	112.65	117.40
1	N	1146	A	C6-C5-N7	-9.49	125.65	132.30
1	N	523	A	N9-C4-C5	-9.49	102.00	105.80
1	N	745	G	O4'-C1'-N9	9.49	115.79	108.20
1	N	1166	G	P-O3'-C3'	9.49	131.09	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1002	G	O4'-C1'-N9	9.49	115.79	108.20
1	N	601	G	C2-N3-C4	9.48	116.64	111.90
1	N	624	C	O4'-C1'-N1	9.48	115.79	108.20
1	N	583	A	N1-C6-N6	9.48	124.29	118.60
1	N	15	G	C5-C6-O6	-9.48	122.91	128.60
1	N	122	G	N1-C6-O6	9.48	125.59	119.90
1	N	466	A	N3-C4-N9	9.48	134.98	127.40
1	N	1003	G	N7-C8-N9	-9.48	108.36	113.10
1	N	20	U	O4'-C1'-N1	9.47	115.78	108.20
1	N	894	G	P-O5'-C5'	9.47	136.06	120.90
1	N	220	G	C4-C5-C6	9.47	124.48	118.80
1	N	907	A	O4'-C1'-N9	9.47	115.78	108.20
1	N	318	G	N1-C2-N3	-9.47	118.22	123.90
1	N	1034	G	N1-C6-O6	9.47	125.58	119.90
1	N	49	U	P-O3'-C3'	-9.47	108.34	119.70
1	N	222	C	C4-C5-C6	9.47	122.13	117.40
1	N	371	A	C4-C5-N7	-9.47	105.97	110.70
1	N	1456	A	C4-C5-C6	9.47	121.73	117.00
1	N	956	U	P-O5'-C5'	9.46	136.04	120.90
1	N	461	A	C6-C5-N7	-9.46	125.68	132.30
1	N	1368	A	C6-N1-C2	9.46	124.28	118.60
1	N	428	G	P-O3'-C3'	9.46	131.05	119.70
1	N	755	G	N1-C6-O6	9.46	125.57	119.90
1	N	1135	U	O4'-C1'-N1	9.46	115.77	108.20
1	N	1296	C	O4'-C1'-N1	9.46	115.76	108.20
1	N	65	A	C6-C5-N7	-9.45	125.69	132.30
1	N	1182	G	N3-C2-N2	9.45	126.51	119.90
1	N	1253	G	N9-C4-C5	-9.45	101.62	105.40
1	N	888	G	C5-N7-C8	-9.45	99.58	104.30
1	N	192	A	C4-C5-C6	9.45	121.72	117.00
1	N	344	A	C8-N9-C4	-9.45	102.02	105.80
1	N	349	A	C4-C5-C6	9.44	121.72	117.00
1	N	375	U	C5-C6-N1	9.45	127.42	122.70
1	N	657	U	O4'-C1'-N1	9.45	115.76	108.20
1	N	106	C	N3-C4-N4	9.44	124.61	118.00
1	N	579	A	C5-N7-C8	9.44	108.62	103.90
1	N	1316	G	N1-C6-O6	9.44	125.57	119.90
1	N	1197	A	C8-N9-C4	-9.44	102.02	105.80
1	N	178	C	N3-C4-N4	9.44	124.61	118.00
1	N	399	G	N3-C2-N2	9.44	126.50	119.90
1	N	1478	U	C5-C4-O4	-9.44	120.24	125.90
1	N	1411	C	O4'-C1'-N1	9.44	115.75	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	64	G	O4'-C1'-N9	9.43	115.75	108.20
1	N	452	A	N7-C8-N9	-9.43	109.08	113.80
1	N	933	G	N1-C6-O6	9.43	125.56	119.90
1	N	1287	A	C5-C6-N6	-9.43	116.16	123.70
1	N	261	U	C5-C4-O4	-9.43	120.24	125.90
1	N	67	C	O4'-C1'-N1	9.43	115.74	108.20
1	N	935	A	C5-C6-N6	-9.43	116.16	123.70
1	N	976	G	C6-C5-N7	-9.42	124.75	130.40
1	N	1186	G	C5-C6-N1	-9.42	106.79	111.50
1	N	1059	C	P-O3'-C3'	9.42	131.00	119.70
1	N	1155	A	N9-C4-C5	-9.42	102.03	105.80
1	N	1207	G	P-O5'-C5'	9.42	135.97	120.90
1	N	1294	G	O4'-C1'-N9	9.42	115.74	108.20
1	N	567	G	O4'-C1'-N9	9.41	115.73	108.20
1	N	237	G	O4'-C1'-N9	9.41	115.73	108.20
1	N	845	A	C5-C6-N6	-9.41	116.17	123.70
1	N	1175	G	C4-C5-C6	9.41	124.45	118.80
1	N	873	A	N1-C2-N3	9.41	134.01	129.30
1	N	691	G	O4'-C1'-N9	9.41	115.73	108.20
1	N	985	C	N3-C4-C5	-9.40	118.14	121.90
1	N	449	G	N1-C6-O6	9.40	125.54	119.90
1	N	788	U	N3-C4-C5	-9.40	108.96	114.60
1	N	849	G	C5-N7-C8	9.40	109.00	104.30
1	N	50	A	O4'-C1'-N9	9.39	115.71	108.20
1	N	864	A	P-O3'-C3'	9.39	130.97	119.70
1	N	1101	A	N7-C8-N9	9.39	118.50	113.80
1	N	313	A	C6-C5-N7	-9.39	125.73	132.30
1	N	1352	C	N3-C4-C5	-9.38	118.15	121.90
1	N	178	C	C6-N1-C2	9.38	124.05	120.30
1	N	316	C	O4'-C1'-N1	9.38	115.70	108.20
1	N	729	A	C5-C6-N6	-9.38	116.20	123.70
1	N	621	A	C5-C6-N1	-9.38	113.01	117.70
1	N	747	A	C5-C6-N6	-9.38	116.20	123.70
1	N	1260	G	N3-C2-N2	9.38	126.47	119.90
1	N	545	C	O4'-C1'-N1	9.38	115.70	108.20
1	N	208	U	P-O3'-C3'	9.37	130.94	119.70
1	N	1092	A	N9-C4-C5	9.37	109.55	105.80
1	N	1188	A	O4'-C1'-N9	9.37	115.70	108.20
1	N	16	A	C5-C6-N1	-9.37	113.02	117.70
1	N	68	G	C2-N3-C4	-9.37	107.22	111.90
1	N	1009	U	N3-C2-O2	9.37	128.76	122.20
1	N	617	G	O4'-C1'-N9	9.37	115.69	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1198	G	C6-C5-N7	-9.37	124.78	130.40
1	N	1186	G	C5-C6-O6	-9.36	122.98	128.60
1	N	386	C	C2-N3-C4	9.36	124.58	119.90
1	N	83	C	N3-C4-C5	-9.36	118.16	121.90
1	N	164	G	C8-N9-C4	-9.36	102.66	106.40
1	N	447	G	C5-C6-N1	-9.36	106.82	111.50
1	N	974	A	O4'-C1'-N9	9.36	115.69	108.20
1	N	860	A	C5-C6-N1	-9.35	113.02	117.70
1	N	435	A	C5-C6-N6	-9.35	116.22	123.70
1	N	668	G	C5-C6-O6	-9.35	122.99	128.60
1	N	1334	G	C5-N7-C8	-9.35	99.62	104.30
1	N	683	G	C6-C5-N7	-9.35	124.79	130.40
1	N	490	C	O4'-C1'-N1	9.35	115.68	108.20
1	N	522	C	C5-C6-N1	9.35	125.67	121.00
1	N	996	A	C8-N9-C4	9.35	109.54	105.80
1	N	887	G	C5-C6-O6	-9.34	122.99	128.60
1	N	1141	C	O4'-C1'-N1	9.34	115.67	108.20
1	N	454	G	C6-C5-N7	-9.34	124.80	130.40
1	N	552	U	C4'-C3'-C2'	-9.34	93.26	102.60
1	N	704	A	O4'-C1'-N9	9.34	115.67	108.20
1	N	861	G	N3-C2-N2	9.34	126.44	119.90
1	N	1351	U	C6-N1-C2	9.34	126.60	121.00
1	N	694	A	N1-C6-N6	9.34	124.20	118.60
1	N	1385	G	O4'-C1'-N9	9.34	115.67	108.20
1	N	303	A	N7-C8-N9	9.33	118.47	113.80
1	N	618	C	N3-C4-N4	9.33	124.53	118.00
1	N	1255	G	N1-C6-O6	9.33	125.50	119.90
1	N	322	C	N3-C4-N4	9.33	124.53	118.00
1	N	514	C	N3-C4-N4	9.33	124.53	118.00
1	N	254	G	O4'-C1'-N9	9.32	115.66	108.20
1	N	1160	G	C1'-O4'-C4'	9.32	117.36	109.90
1	N	198	G	N7-C8-N9	-9.32	108.44	113.10
1	N	754	C	N3-C4-N4	9.32	124.52	118.00
1	N	393	A	C5-C6-N6	-9.32	116.25	123.70
1	N	568	G	C5-C6-O6	-9.31	123.01	128.60
1	N	1086	U	O4'-C1'-N1	9.31	115.65	108.20
1	N	1189	U	N3-C2-O2	9.31	128.72	122.20
1	N	1241	G	C5-C6-O6	-9.31	123.02	128.60
1	N	1299	A	C4-C5-C6	9.30	121.65	117.00
1	N	1415	G	C4-C5-C6	9.31	124.38	118.80
1	N	432	A	C4-C5-C6	9.30	121.65	117.00
1	N	549	C	O4'-C1'-N1	9.30	115.64	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1199	U	P-O5'-C5'	9.30	135.78	120.90
1	N	1456	A	C2-N3-C4	9.30	115.25	110.60
1	N	301	G	O4'-C1'-N9	9.30	115.64	108.20
1	N	908	A	N9-C4-C5	9.29	109.52	105.80
1	N	1282	C	O4'-C1'-N1	9.29	115.64	108.20
1	N	1351	U	N1-C2-N3	-9.30	109.32	114.90
1	N	828	U	N3-C4-O4	9.29	125.91	119.40
1	N	189	A	C6-C5-N7	-9.29	125.80	132.30
1	N	704	A	C5-C6-N6	-9.29	116.27	123.70
1	N	342	C	N3-C4-C5	-9.28	118.19	121.90
1	N	92	U	O4'-C1'-N1	9.28	115.63	108.20
1	N	967	C	C5-C4-N4	-9.28	113.70	120.20
1	N	3	A	C5-C6-N6	-9.28	116.28	123.70
1	N	200	G	C2-N3-C4	9.28	116.54	111.90
1	N	596	A	C4-C5-C6	9.28	121.64	117.00
1	N	1368	A	C4-C5-C6	9.28	121.64	117.00
1	N	532	A	O4'-C1'-N9	9.28	115.62	108.20
1	N	235	C	N3-C4-N4	9.27	124.49	118.00
1	N	480	U	C6-N1-C2	-9.27	115.44	121.00
1	N	654	G	N3-C2-N2	9.27	126.39	119.90
1	N	803	G	O4'-C1'-N9	9.27	115.62	108.20
1	N	924	C	C5-C4-N4	-9.27	113.71	120.20
1	N	1283	U	O4'-C1'-N1	9.27	115.62	108.20
1	N	926	G	N3-C2-N2	9.27	126.39	119.90
1	N	426	U	P-O5'-C5'	9.27	135.73	120.90
1	N	509	A	N1-C6-N6	9.27	124.16	118.60
1	N	146	G	C5-C6-O6	-9.26	123.04	128.60
1	N	183	C	O4'-C1'-N1	9.26	115.61	108.20
1	N	1377	A	C4-C5-C6	9.26	121.63	117.00
1	N	557	G	N3-C4-C5	9.26	133.23	128.60
1	N	691	G	C6-C5-N7	-9.26	124.84	130.40
1	N	399	G	N1-C6-O6	9.26	125.45	119.90
1	N	228	A	C5-C6-N1	-9.26	113.07	117.70
1	N	915	A	O4'-C1'-N9	9.26	115.61	108.20
1	N	536	C	C5-C6-N1	9.25	125.63	121.00
1	N	896	C	C6-N1-C2	-9.25	116.60	120.30
1	N	570	G	C4-C5-C6	9.25	124.35	118.80
1	N	1117	A	O4'-C1'-N9	9.25	115.60	108.20
1	N	1295	U	N3-C4-O4	9.25	125.88	119.40
1	N	1465	A	C4-C5-C6	9.25	121.62	117.00
1	N	581	G	P-O5'-C5'	9.25	135.69	120.90
1	N	2	A	C6-C5-N7	-9.24	125.83	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	642	A	C4-C5-C6	9.24	121.62	117.00
1	N	939	G	P-O5'-C5'	-9.24	106.11	120.90
1	N	1074	G	N9-C4-C5	-9.24	101.70	105.40
1	N	1517	G	C6-N1-C2	9.24	130.65	125.10
1	N	177	G	C5-C6-N1	-9.24	106.88	111.50
1	N	389	A	C5-C6-N1	-9.24	113.08	117.70
1	N	689	C	N3-C4-N4	9.24	124.47	118.00
1	N	819	A	P-O3'-C3'	9.24	130.79	119.70
1	N	879	C	N3-C4-C5	-9.24	118.20	121.90
1	N	1362	A	N7-C8-N9	9.24	118.42	113.80
1	N	939	G	C8-N9-C4	-9.24	102.70	106.40
1	N	1474	U	O4'-C1'-N1	9.24	115.59	108.20
1	N	1471	U	N3-C4-O4	9.23	125.86	119.40
1	N	241	G	C5-C6-O6	-9.23	123.06	128.60
1	N	285	C	C5-C4-N4	-9.23	113.74	120.20
1	N	1366	C	N3-C4-N4	9.23	124.46	118.00
1	N	1156	G	N1-C6-O6	9.23	125.44	119.90
1	N	70	U	N1-C2-O2	-9.23	116.34	122.80
1	N	812	G	N7-C8-N9	-9.22	108.49	113.10
1	N	1155	A	C5-C6-N1	-9.22	113.09	117.70
1	N	680	C	N3-C4-C5	-9.22	118.21	121.90
1	N	951	G	C5-C6-O6	-9.22	123.07	128.60
1	N	637	C	C4-C5-C6	-9.22	112.79	117.40
1	N	695	A	C8-N9-C4	-9.22	102.11	105.80
1	N	239	U	C5-C4-O4	-9.22	120.37	125.90
1	N	18	C	N1-C2-O2	-9.21	113.37	118.90
1	N	778	G	C4-C5-N7	-9.21	107.11	110.80
1	N	926	G	C5-C6-O6	-9.21	123.07	128.60
1	N	222	C	C2-N3-C4	9.21	124.50	119.90
1	N	818	G	C4-N9-C1'	9.21	138.47	126.50
1	N	228	A	C6-C5-N7	-9.21	125.86	132.30
1	N	362	G	N1-C6-O6	9.21	125.42	119.90
1	N	678	U	O4'-C1'-N1	9.21	115.56	108.20
1	N	94	G	C6-N1-C2	-9.21	119.58	125.10
1	N	1497	G	P-O3'-C3'	9.21	130.75	119.70
1	N	54	C	C6-N1-C2	-9.20	116.62	120.30
1	N	125	U	N3-C2-O2	9.20	128.64	122.20
1	N	404	G	N1-C6-O6	9.20	125.42	119.90
1	N	825	A	C5-C6-N1	-9.20	113.10	117.70
1	N	446	G	C6-C5-N7	-9.20	124.88	130.40
1	N	9	G	C6-C5-N7	-9.19	124.88	130.40
1	N	442	G	N3-C2-N2	9.19	126.34	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	516	U	O4'-C1'-N1	9.20	115.56	108.20
1	N	568	G	N3-C4-C5	9.20	133.20	128.60
1	N	711	G	N1-C2-N3	-9.19	118.38	123.90
1	N	1324	A	C5-C6-N6	-9.19	116.34	123.70
1	N	624	C	C6-N1-C2	-9.19	116.62	120.30
1	N	105	G	C6-C5-N7	-9.19	124.89	130.40
1	N	455	G	O4'-C1'-N9	9.19	115.55	108.20
1	N	475	C	C2-N3-C4	-9.19	115.31	119.90
1	N	577	G	N7-C8-N9	-9.19	108.51	113.10
1	N	81	A	O4'-C1'-N9	9.18	115.55	108.20
1	N	967	C	O4'-C1'-N1	9.18	115.55	108.20
1	N	1066	C	O4'-C1'-N1	9.18	115.55	108.20
1	N	1383	C	N3-C4-C5	-9.18	118.23	121.90
1	N	62	U	O4'-C1'-N1	9.18	115.54	108.20
1	N	1055	A	C5-C6-N1	-9.18	113.11	117.70
1	N	1446	A	C5-C6-N1	-9.18	113.11	117.70
1	N	441	A	C5-C6-N1	-9.17	113.11	117.70
1	N	1110	A	C4-C5-C6	9.17	121.59	117.00
1	N	457	G	C5-C6-O6	-9.17	123.10	128.60
1	N	541	G	N7-C8-N9	-9.17	108.51	113.10
1	N	817	C	C1'-O4'-C4'	-9.17	102.56	109.90
1	N	853	C	C6-N1-C2	-9.17	116.63	120.30
1	N	376	G	C8-N9-C4	9.17	110.07	106.40
1	N	347	G	N3-C2-N2	9.16	126.31	119.90
1	N	450	G	N1-C2-N3	-9.16	118.40	123.90
1	N	1480	A	C5-C6-N6	-9.16	116.37	123.70
1	N	315	A	O4'-C1'-N9	9.16	115.53	108.20
1	N	212	G	P-O5'-C5'	9.16	135.55	120.90
1	N	729	A	N3-C4-C5	-9.16	120.39	126.80
1	N	75	G	C4-C5-C6	9.15	124.29	118.80
1	N	570	G	N3-C4-C5	-9.15	124.02	128.60
1	N	1020	G	C8-N9-C4	9.15	110.06	106.40
1	N	110	C	C4-C5-C6	9.15	121.98	117.40
1	N	112	G	N3-C2-N2	9.15	126.30	119.90
1	N	201	G	C5-C6-N1	-9.15	106.93	111.50
1	N	219	U	N1-C2-N3	9.15	120.39	114.90
1	N	649	A	C6-C5-N7	-9.15	125.90	132.30
1	N	1253	G	N3-C2-N2	9.14	126.30	119.90
1	N	850	U	O4'-C1'-N1	9.14	115.51	108.20
1	N	128	G	C5-C6-N1	-9.14	106.93	111.50
1	N	318	G	C2-N3-C4	9.14	116.47	111.90
1	N	729	A	C2-N3-C4	9.14	115.17	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	787	A	C4-C5-C6	9.14	121.57	117.00
1	N	1389	C	O4'-C1'-N1	9.14	115.51	108.20
1	N	459	A	C5'-C4'-C3'	-9.13	101.39	116.00
1	N	1360	A	C4-C5-C6	9.13	121.57	117.00
1	N	265	G	O4'-C1'-N9	9.13	115.50	108.20
1	N	295	C	C6-N1-C2	-9.13	116.65	120.30
1	N	1195	C	O4'-C1'-N1	9.13	115.50	108.20
1	N	1324	A	N9-C4-C5	9.13	109.45	105.80
1	N	340	U	C2-N3-C4	-9.13	121.52	127.00
1	N	1077	G	C2-N3-C4	-9.13	107.34	111.90
1	N	465	A	C5-N7-C8	9.12	108.46	103.90
1	N	626	G	C8-N9-C4	-9.12	102.75	106.40
1	N	955	U	O4'-C1'-N1	9.12	115.50	108.20
1	N	44	A	C5-N7-C8	9.12	108.46	103.90
1	N	503	C	C5-C4-N4	-9.12	113.82	120.20
1	N	729	A	C5-N7-C8	9.12	108.46	103.90
1	N	833	G	C8-N9-C4	9.11	110.05	106.40
1	N	324	G	O4'-C1'-N9	9.11	115.49	108.20
1	N	570	G	C2-N3-C4	9.11	116.46	111.90
1	N	819	A	N7-C8-N9	-9.11	109.24	113.80
1	N	750	C	C2-N3-C4	9.11	124.45	119.90
1	N	145	G	N1-C6-O6	9.11	125.36	119.90
1	N	788	U	N3-C4-O4	9.11	125.77	119.40
1	N	409	U	O4'-C1'-N1	9.10	115.48	108.20
1	N	938	A	C4-C5-C6	9.10	121.55	117.00
1	N	1097	C	C1'-O4'-C4'	9.10	117.18	109.90
1	N	1033	G	C6-N1-C2	9.10	130.56	125.10
1	N	1038	C	N3-C4-C5	-9.10	118.26	121.90
1	N	1263	C	P-O5'-C5'	9.10	135.46	120.90
1	N	1428	A	C4-C5-C6	9.10	121.55	117.00
1	N	1460	C	C5-C6-N1	9.10	125.55	121.00
1	N	593	U	O4'-C1'-N1	9.09	115.47	108.20
1	N	139	A	N1-C6-N6	9.09	124.06	118.60
1	N	572	A	N1-C6-N6	9.09	124.05	118.60
1	N	1319	A	P-O3'-C3'	9.09	130.61	119.70
1	N	819	A	C4-C5-N7	-9.09	106.16	110.70
1	N	1259	C	N3-C4-C5	-9.09	118.27	121.90
1	N	1474	U	N1-C2-O2	-9.09	116.44	122.80
1	N	541	G	C5-C6-O6	-9.08	123.15	128.60
1	N	506	G	O4'-C1'-N9	9.08	115.47	108.20
1	N	440	C	P-O5'-C5'	9.08	135.43	120.90
1	N	1531	A	O4'-C1'-N9	9.08	115.47	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	962	C	N3-C4-C5	-9.08	118.27	121.90
1	N	1266	G	N1-C6-O6	9.08	125.35	119.90
1	N	102	G	C5-C6-O6	-9.08	123.16	128.60
1	N	836	G	N1-C2-N3	-9.08	118.45	123.90
1	N	902	G	C4-C5-C6	9.08	124.25	118.80
1	N	679	C	C6-N1-C2	-9.07	116.67	120.30
1	N	1483	A	C5-C6-N1	-9.07	113.16	117.70
1	N	771	G	N3-C2-N2	9.07	126.25	119.90
1	N	917	G	C6-C5-N7	-9.07	124.96	130.40
1	N	1171	A	C5-C6-N1	-9.07	113.16	117.70
1	N	90	C	N3-C4-N4	9.07	124.35	118.00
1	N	105	G	C4'-C3'-C2'	-9.06	93.53	102.60
1	N	1240	U	N1-C2-N3	-9.06	109.46	114.90
1	N	239	U	N1-C2-N3	9.06	120.34	114.90
1	N	1347	G	N1-C6-O6	9.06	125.34	119.90
1	N	306	A	C6-C5-N7	-9.06	125.96	132.30
1	N	1283	U	C6-N1-C2	-9.06	115.56	121.00
1	N	1403	C	C5-C6-N1	9.06	125.53	121.00
1	N	241	G	O4'-C1'-N9	9.05	115.44	108.20
1	N	253	A	C5-C6-N6	-9.05	116.46	123.70
1	N	331	G	N9-C4-C5	-9.05	101.78	105.40
1	N	1163	A	N1-C6-N6	9.05	124.03	118.60
1	N	514	C	C5-C4-N4	-9.05	113.86	120.20
1	N	178	C	C5-C4-N4	-9.05	113.87	120.20
1	N	295	C	C5-C6-N1	9.05	125.52	121.00
1	N	1227	A	C4-C5-C6	9.05	121.52	117.00
1	N	415	A	N9-C4-C5	9.04	109.42	105.80
1	N	1229	A	N1-C6-N6	9.04	124.03	118.60
1	N	130	A	C4'-C3'-C2'	-9.04	93.56	102.60
1	N	446	G	N1-C2-N3	-9.04	118.47	123.90
1	N	1063	C	O4'-C1'-N1	9.04	115.43	108.20
1	N	1175	G	C5-N7-C8	9.04	108.82	104.30
1	N	1361	G	N9-C4-C5	9.04	109.02	105.40
1	N	1466	C	N3-C4-N4	9.04	124.33	118.00
1	N	1396	A	C5-C6-N1	-9.04	113.18	117.70
1	N	1005	A	C5-C6-N6	-9.04	116.47	123.70
1	N	163	C	O4'-C1'-N1	9.04	115.43	108.20
1	N	348	G	C4-C5-N7	-9.04	107.19	110.80
1	N	851	G	P-O5'-C5'	9.04	135.36	120.90
1	N	345	C	C6-N1-C2	-9.04	116.69	120.30
1	N	668	G	C2-N3-C4	-9.03	107.38	111.90
1	N	1303	C	C2-N3-C4	9.03	124.42	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	945	G	N1-C2-N3	-9.03	118.48	123.90
1	N	38	G	C4-C5-N7	-9.02	107.19	110.80
1	N	262	A	C8-N9-C4	-9.02	102.19	105.80
1	N	784	A	C4'-C3'-C2'	-9.02	93.58	102.60
1	N	284	C	O4'-C1'-N1	9.02	115.42	108.20
1	N	501	C	O4'-C1'-N1	9.02	115.42	108.20
1	N	963	G	C6-C5-N7	-9.02	124.99	130.40
1	N	1438	G	C5-C6-O6	-9.02	123.19	128.60
1	N	1320	C	O4'-C1'-N1	9.02	115.41	108.20
1	N	639	G	C6-C5-N7	-9.02	124.99	130.40
1	N	930	C	C5-C4-N4	-9.02	113.89	120.20
1	N	120	A	C4'-C3'-C2'	-9.02	93.58	102.60
1	N	1158	C	C2-N1-C1'	9.02	128.72	118.80
1	N	1260	G	C6-N1-C2	9.02	130.51	125.10
1	N	22	G	N3-C4-C5	9.01	133.11	128.60
1	N	364	A	C8-N9-C4	9.01	109.41	105.80
1	N	544	G	C5-N7-C8	-9.01	99.79	104.30
1	N	597	G	N1-C2-N3	-9.01	118.49	123.90
1	N	499	A	N1-C2-N3	9.01	133.81	129.30
1	N	669	G	N1-C2-N3	-9.01	118.49	123.90
1	N	1195	C	N3-C4-C5	-9.01	118.30	121.90
1	N	722	G	C5-C6-N1	-9.01	107.00	111.50
1	N	130	A	N1-C2-N3	9.01	133.80	129.30
1	N	8	A	C5-N7-C8	9.01	108.40	103.90
1	N	200	G	O4'-C1'-N9	9.01	115.41	108.20
1	N	303	A	C5-C6-N1	-9.01	113.20	117.70
1	N	1311	A	C4-C5-C6	9.01	121.50	117.00
1	N	816	A	C5-C6-N1	-9.01	113.20	117.70
1	N	1030	U	N3-C4-O4	9.01	125.70	119.40
1	N	1320	C	P-O3'-C3'	-9.01	108.89	119.70
1	N	1520	C	O4'-C1'-N1	9.01	115.41	108.20
1	N	1072	G	O4'-C1'-N9	9.00	115.40	108.20
1	N	1166	G	N3-C2-N2	9.00	126.20	119.90
1	N	197	A	N1-C6-N6	9.00	124.00	118.60
1	N	909	A	N1-C2-N3	9.00	133.80	129.30
1	N	343	U	O4'-C1'-N1	9.00	115.40	108.20
1	N	434	U	C2-N3-C4	-9.00	121.60	127.00
1	N	1120	C	N3-C4-N4	9.00	124.30	118.00
1	N	356	A	C5-C6-N6	-8.99	116.50	123.70
1	N	1427	C	O4'-C1'-N1	8.99	115.40	108.20
1	N	1069	C	O4'-C1'-N1	8.99	115.39	108.20
1	N	1244	G	O4'-C1'-N9	8.99	115.39	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1388	C	P-O3'-C3'	8.98	130.48	119.70
1	N	1503	A	N7-C8-N9	8.98	118.29	113.80
1	N	1471	U	O4'-C1'-N1	8.98	115.38	108.20
1	N	1100	C	N3-C4-C5	-8.98	118.31	121.90
1	N	739	C	O4'-C1'-N1	8.98	115.38	108.20
1	N	936	C	O4'-C1'-N1	8.98	115.38	108.20
1	N	1317	C	O4'-C1'-N1	8.98	115.38	108.20
1	N	73	C	N3-C4-C5	-8.97	118.31	121.90
1	N	1507	A	O4'-C1'-N9	8.97	115.38	108.20
1	N	417	G	C6-C5-N7	-8.97	125.02	130.40
1	N	466	A	N3-C4-C5	-8.97	120.52	126.80
1	N	655	A	P-O5'-C5'	8.97	135.25	120.90
1	N	208	U	N3-C4-O4	8.97	125.68	119.40
1	N	612	C	O5'-P-OP1	-8.97	97.63	105.70
1	N	1186	G	C4'-C3'-C2'	-8.97	93.63	102.60
1	N	234	C	O4'-C1'-N1	8.97	115.37	108.20
1	N	389	A	C5-N7-C8	8.97	108.38	103.90
1	N	153	C	C5-C4-N4	-8.96	113.92	120.20
1	N	510	A	C5-C6-N1	-8.96	113.22	117.70
1	N	902	G	C6-C5-N7	-8.96	125.02	130.40
1	N	1288	A	C8-N9-C4	-8.96	102.22	105.80
1	N	152	A	O4'-C1'-N9	8.96	115.37	108.20
1	N	781	A	N1-C6-N6	8.96	123.98	118.60
1	N	1509	C	N3-C4-C5	-8.96	118.31	121.90
1	N	862	C	C2-N3-C4	8.96	124.38	119.90
1	N	708	C	N3-C4-N4	8.96	124.27	118.00
1	N	1109	C	O4'-C1'-N1	8.96	115.37	108.20
1	N	1310	G	C5'-C4'-C3'	8.96	130.33	116.00
1	N	786	G	C4-C5-N7	-8.96	107.22	110.80
1	N	1144	G	C6-C5-N7	-8.96	125.03	130.40
1	N	922	G	N1-C6-O6	8.95	125.27	119.90
1	N	1035	A	C5-C6-N6	-8.95	116.54	123.70
1	N	1522	U	O4'-C1'-N1	8.95	115.36	108.20
1	N	577	G	C8-N9-C4	8.95	109.98	106.40
1	N	825	A	C5-C6-N6	-8.95	116.54	123.70
1	N	387	U	O4'-C1'-N1	8.95	115.36	108.20
1	N	647	C	O4'-C1'-N1	8.95	115.36	108.20
1	N	155	A	P-O5'-C5'	8.94	135.21	120.90
1	N	883	C	O4'-C1'-N1	8.95	115.36	108.20
1	N	746	A	C5-C6-N1	-8.94	113.23	117.70
1	N	813	U	N3-C2-O2	8.94	128.46	122.20
1	N	1531	A	C4-C5-C6	8.94	121.47	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1022	A	O4'-C1'-N9	8.94	115.35	108.20
1	N	255	G	C6-C5-N7	-8.94	125.04	130.40
1	N	598	U	C2-N3-C4	-8.94	121.64	127.00
1	N	892	A	N1-C6-N6	8.94	123.96	118.60
1	N	1321	U	C3'-C2'-C1'	8.94	108.65	101.50
1	N	767	A	C4-C5-C6	8.94	121.47	117.00
1	N	1366	C	O4'-C1'-N1	8.94	115.35	108.20
1	N	256	U	O4'-C1'-N1	8.93	115.35	108.20
1	N	419	C	N3-C4-C5	-8.93	118.33	121.90
1	N	1404	C	C2-N3-C4	8.93	124.37	119.90
1	N	623	C	N3-C2-O2	8.93	128.15	121.90
1	N	845	A	N1-C2-N3	-8.93	124.83	129.30
1	N	74	A	C5-N7-C8	8.93	108.36	103.90
1	N	1120	C	P-O5'-C5'	8.93	135.19	120.90
1	N	1480	A	N1-C2-N3	8.93	133.77	129.30
1	N	418	C	C6-N1-C2	-8.93	116.73	120.30
1	N	366	A	C4-C5-C6	8.93	121.46	117.00
1	N	696	A	N1-C6-N6	8.93	123.95	118.60
1	N	767	A	N1-C2-N3	-8.93	124.84	129.30
1	N	714	G	N1-C2-N3	-8.92	118.55	123.90
1	N	1219	A	C4-C5-C6	8.92	121.46	117.00
1	N	16	A	C4-C5-N7	-8.92	106.24	110.70
1	N	1080	A	C5-C6-N1	-8.92	113.24	117.70
1	N	1300	G	C5-C6-N1	-8.92	107.04	111.50
1	N	35	G	C5-C6-O6	-8.92	123.25	128.60
1	N	173	U	C2-N3-C4	-8.91	121.65	127.00
1	N	1258	G	O4'-C1'-N9	8.91	115.33	108.20
1	N	1505	G	C5-C6-O6	-8.91	123.25	128.60
1	N	212	G	C5-C6-O6	-8.91	123.25	128.60
1	N	676	A	C5-C6-N1	-8.91	113.25	117.70
1	N	1440	U	C2-N3-C4	8.91	132.34	127.00
1	N	355	C	O4'-C1'-N1	8.91	115.33	108.20
1	N	550	G	C5-C6-N1	-8.90	107.05	111.50
1	N	621	A	C4-C5-C6	8.90	121.45	117.00
1	N	1442	G	C4-C5-C6	8.90	124.14	118.80
1	N	727	G	N3-C4-C5	8.90	133.05	128.60
1	N	214	C	N3-C4-N4	8.90	124.23	118.00
1	N	601	G	N3-C2-N2	8.90	126.13	119.90
1	N	117	G	C5-N7-C8	8.90	108.75	104.30
1	N	230	G	C5-C6-O6	-8.90	123.26	128.60
1	N	883	C	N3-C4-N4	8.90	124.23	118.00
1	N	1438	G	C8-N9-C4	-8.90	102.84	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1256	A	O4'-C1'-N9	8.90	115.32	108.20
1	N	250	A	O4'-C1'-N9	8.89	115.31	108.20
1	N	356	A	C8-N9-C4	-8.89	102.24	105.80
1	N	868	C	N1-C2-N3	8.89	125.43	119.20
1	N	1381	U	N3-C4-C5	-8.89	109.26	114.60
1	N	180	U	N3-C2-O2	8.89	128.42	122.20
1	N	668	G	C5-C6-N1	-8.89	107.05	111.50
1	N	1138	G	P-O3'-C3'	8.89	130.37	119.70
1	N	1462	C	N3-C4-N4	8.89	124.22	118.00
1	N	601	G	N1-C6-O6	8.88	125.23	119.90
1	N	285	C	O4'-C1'-N1	8.88	115.30	108.20
1	N	909	A	P-O5'-C5'	8.88	135.10	120.90
1	N	1152	A	C8-N9-C4	-8.88	102.25	105.80
1	N	270	A	O4'-C1'-N9	8.87	115.30	108.20
1	N	780	A	O4'-C1'-N9	8.87	115.30	108.20
1	N	846	G	C4-C5-N7	8.87	114.35	110.80
1	N	954	G	N7-C8-N9	8.87	117.54	113.10
1	N	1318	A	C5-C6-N6	-8.87	116.60	123.70
1	N	151	A	P-O3'-C3'	-8.87	109.06	119.70
1	N	530	G	N1-C6-O6	8.87	125.22	119.90
1	N	116	A	C4-C5-C6	8.87	121.43	117.00
1	N	494	G	C3'-C2'-C1'	8.87	108.59	101.50
1	N	199	A	C8-N9-C4	-8.87	102.25	105.80
1	N	348	G	N1-C6-O6	8.87	125.22	119.90
1	N	1213	A	N1-C2-N3	8.87	133.73	129.30
1	N	1116	U	N3-C2-O2	8.86	128.41	122.20
1	N	735	C	C5-C4-N4	-8.86	114.00	120.20
1	N	871	U	O4'-C1'-N1	8.86	115.29	108.20
1	N	1163	A	N1-C2-N3	8.86	133.73	129.30
1	N	1184	G	N3-C2-N2	8.86	126.10	119.90
1	N	385	C	O4'-C1'-N1	8.86	115.29	108.20
1	N	504	C	C5-C6-N1	8.85	125.43	121.00
1	N	1228	C	C6-N1-C2	-8.85	116.76	120.30
1	N	565	U	N3-C2-O2	8.85	128.40	122.20
1	N	207	C	C2-N3-C4	8.85	124.32	119.90
1	N	385	C	C5-C4-N4	-8.85	114.01	120.20
1	N	399	G	C5-C6-N1	-8.85	107.08	111.50
1	N	1487	G	O4'-C1'-N9	8.85	115.28	108.20
1	N	716	A	C5-C6-N1	-8.85	113.28	117.70
1	N	718	A	C4-C5-C6	8.85	121.42	117.00
1	N	1108	G	N3-C4-C5	-8.85	124.18	128.60
1	N	53	A	C5-N7-C8	8.84	108.32	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	295	C	N3-C4-C5	-8.84	118.36	121.90
1	N	407	U	P-O5'-C5'	8.84	135.05	120.90
1	N	467	U	C6-N1-C1'	-8.84	108.82	121.20
1	N	1188	A	N7-C8-N9	-8.84	109.38	113.80
1	N	927	G	C5-C6-O6	-8.84	123.30	128.60
1	N	436	C	C5-C6-N1	8.84	125.42	121.00
1	N	964	A	C8-N9-C4	-8.84	102.26	105.80
1	N	247	G	O4'-C1'-N9	8.84	115.27	108.20
1	N	1424	U	C5-C6-N1	8.84	127.12	122.70
1	N	939	G	N3-C2-N2	8.84	126.08	119.90
1	N	522	C	O4'-C1'-N1	8.83	115.27	108.20
1	N	334	C	N3-C4-N4	8.83	124.18	118.00
1	N	1289	A	C8-N9-C4	8.83	109.33	105.80
1	N	351	G	P-O3'-C3'	8.83	130.29	119.70
1	N	720	C	C4-C5-C6	8.83	121.81	117.40
1	N	984	C	C4-C5-C6	8.82	121.81	117.40
1	N	1075	U	C6-N1-C2	8.82	126.30	121.00
1	N	1134	G	N1-C6-O6	8.82	125.19	119.90
1	N	785	G	C4'-C3'-C2'	-8.82	93.78	102.60
1	N	81	A	C5-C6-N6	-8.82	116.64	123.70
1	N	1480	A	O4'-C1'-N9	8.82	115.25	108.20
1	N	129	A	P-O5'-C5'	8.82	135.01	120.90
1	N	240	G	C4-C5-C6	8.82	124.09	118.80
1	N	244	U	N1-C2-N3	8.82	120.19	114.90
1	N	468	A	C6-C5-N7	-8.82	126.13	132.30
1	N	635	A	N1-C6-N6	8.82	123.89	118.60
1	N	1010	U	P-O5'-C5'	8.82	135.01	120.90
1	N	461	A	N1-C2-N3	8.82	133.71	129.30
1	N	821	G	N9-C4-C5	-8.81	101.88	105.40
1	N	432	A	C5-C6-N1	-8.81	113.30	117.70
1	N	713	G	N1-C6-O6	8.81	125.19	119.90
1	N	1015	G	O4'-C1'-N9	8.81	115.25	108.20
1	N	1105	A	C2-N3-C4	-8.81	106.19	110.60
1	N	1228	C	P-O5'-C5'	-8.81	106.80	120.90
1	N	15	G	N3-C4-C5	8.81	133.00	128.60
1	N	374	A	C5-C6-N6	-8.81	116.65	123.70
1	N	526	C	N3-C4-C5	-8.81	118.38	121.90
1	N	901	A	C4-C5-C6	8.81	121.40	117.00
1	N	635	A	O4'-C1'-N9	8.81	115.25	108.20
1	N	932	C	C5-C4-N4	-8.81	114.03	120.20
1	N	938	A	C5-C6-N6	-8.81	116.66	123.70
1	N	1106	G	N1-C6-O6	8.80	125.18	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1334	G	C8-N9-C4	-8.80	102.88	106.40
1	N	201	G	N1-C6-O6	8.80	125.18	119.90
1	N	583	A	N9-C4-C5	8.80	109.32	105.80
1	N	1030	U	C5-C4-O4	-8.80	120.62	125.90
1	N	1446	A	C4-C5-C6	8.80	121.40	117.00
1	N	616	G	C5-C6-O6	-8.80	123.32	128.60
1	N	145	G	C4'-C3'-C2'	-8.80	93.80	102.60
1	N	261	U	N3-C4-O4	8.80	125.56	119.40
1	N	356	A	N1-C2-N3	8.80	133.70	129.30
1	N	373	A	C5-C6-N6	-8.80	116.66	123.70
1	N	900	A	O4'-C1'-N9	8.80	115.24	108.20
1	N	947	G	C5'-C4'-C3'	8.80	130.08	116.00
1	N	499	A	C6-C5-N7	-8.80	126.14	132.30
1	N	1019	A	N1-C6-N6	8.80	123.88	118.60
1	N	48	C	O4'-C1'-N1	8.79	115.24	108.20
1	N	1055	A	N1-C2-N3	-8.80	124.90	129.30
1	N	1188	A	C4-C5-C6	8.79	121.40	117.00
1	N	1269	A	C5'-C4'-C3'	8.79	130.07	116.00
1	N	1315	U	C5-C6-N1	8.79	127.10	122.70
1	N	389	A	N1-C2-N3	8.79	133.69	129.30
1	N	214	C	O4'-C1'-N1	8.79	115.23	108.20
1	N	499	A	C5-N7-C8	8.78	108.29	103.90
1	N	595	A	C3'-C2'-C1'	-8.79	94.47	101.50
1	N	1150	A	O4'-C1'-N9	8.78	115.23	108.20
1	N	1114	C	C5-C4-N4	-8.78	114.05	120.20
1	N	1122	U	C4-C5-C6	8.78	124.97	119.70
1	N	1255	G	C5-C6-N1	-8.78	107.11	111.50
1	N	260	G	N3-C4-C5	-8.78	124.21	128.60
1	N	445	G	C5-C6-N1	-8.78	107.11	111.50
1	N	601	G	C4'-C3'-C2'	-8.78	93.82	102.60
1	N	915	A	N9-C4-C5	-8.78	102.29	105.80
1	N	22	G	C5-C6-N1	-8.78	107.11	111.50
1	N	1244	G	C6-C5-N7	-8.78	125.13	130.40
1	N	182	A	C2-N3-C4	-8.78	106.21	110.60
1	N	491	G	N1-C2-N3	-8.77	118.64	123.90
1	N	1170	A	N1-C6-N6	8.77	123.86	118.60
1	N	1240	U	C1'-O4'-C4'	8.77	116.92	109.90
1	N	259	G	O4'-C1'-N9	8.77	115.21	108.20
1	N	171	A	P-O3'-C3'	-8.77	109.18	119.70
1	N	916	U	C2-N1-C1'	8.77	128.22	117.70
1	N	1165	U	N1-C2-N3	8.77	120.16	114.90
1	N	187	G	N1-C6-O6	8.76	125.16	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1009	U	C2-N3-C4	8.76	132.26	127.00
1	N	1090	U	C4'-C3'-C2'	-8.76	93.84	102.60
1	N	1490	U	N1-C2-N3	8.76	120.16	114.90
1	N	528	C	C5-C4-N4	-8.76	114.07	120.20
1	N	1350	A	C6-N1-C2	-8.76	113.34	118.60
1	N	923	A	O4'-C1'-N9	8.76	115.21	108.20
1	N	141	G	N1-C6-O6	8.76	125.15	119.90
1	N	322	C	N3-C4-C5	-8.76	118.40	121.90
1	N	380	G	C5-C6-O6	-8.76	123.35	128.60
1	N	882	C	C5-C6-N1	8.76	125.38	121.00
1	N	943	U	C2-N1-C1'	8.76	128.21	117.70
1	N	970	C	N3-C4-N4	8.75	124.13	118.00
1	N	356	A	O4'-C1'-N9	8.75	115.20	108.20
1	N	537	G	C5-C6-O6	-8.75	123.35	128.60
1	N	919	A	C6-N1-C2	8.75	123.85	118.60
1	N	1000	A	N9-C4-C5	8.74	109.30	105.80
1	N	641	U	O4'-C4'-C3'	8.74	113.09	106.10
1	N	1387	G	C5-C6-O6	-8.74	123.36	128.60
1	N	1317	C	N3-C4-C5	-8.74	118.41	121.90
1	N	965	U	P-O5'-C5'	8.73	134.87	120.90
1	N	420	U	O4'-C1'-N1	8.73	115.18	108.20
1	N	838	G	C6-C5-N7	-8.73	125.16	130.40
1	N	845	A	C3'-C2'-C1'	-8.73	94.52	101.50
1	N	1026	G	C5-C6-N1	-8.73	107.13	111.50
1	N	1036	A	C5'-C4'-O4'	8.73	119.58	109.10
1	N	1143	G	O4'-C1'-N9	8.73	115.19	108.20
1	N	195	A	C4-C5-C6	8.73	121.36	117.00
1	N	1456	A	C5-C6-N1	-8.73	113.34	117.70
1	N	1529	G	N1-C2-N3	-8.73	118.66	123.90
1	N	151	A	N3-C4-C5	-8.72	120.69	126.80
1	N	996	A	N1-C6-N6	8.72	123.83	118.60
1	N	1019	A	C8-N9-C4	8.72	109.29	105.80
1	N	1434	A	N9-C4-C5	-8.72	102.31	105.80
1	N	767	A	C2-N3-C4	8.72	114.96	110.60
1	N	1055	A	N7-C8-N9	-8.72	109.44	113.80
1	N	291	U	O4'-C1'-N1	8.72	115.17	108.20
1	N	425	G	O4'-C1'-N9	8.72	115.17	108.20
1	N	599	C	O4'-C1'-N1	8.72	115.17	108.20
1	N	821	G	N3-C2-N2	8.72	126.00	119.90
1	N	948	C	O4'-C1'-N1	8.72	115.17	108.20
1	N	1020	G	N7-C8-N9	-8.72	108.74	113.10
1	N	1087	G	P-O5'-C5'	8.72	134.85	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1150	A	N9-C4-C5	8.72	109.29	105.80
1	N	1448	C	N3-C4-N4	8.72	124.10	118.00
1	N	499	A	C2-N3-C4	-8.71	106.24	110.60
1	N	274	A	P-O3'-C3'	8.71	130.15	119.70
1	N	1051	C	C5-C6-N1	-8.71	116.64	121.00
1	N	100	G	C6-N1-C2	8.71	130.32	125.10
1	N	328	C	N3-C4-C5	-8.71	118.42	121.90
1	N	529	G	O4'-C1'-N9	8.71	115.17	108.20
1	N	1461	G	N1-C2-N3	-8.71	118.67	123.90
1	N	870	U	C6-N1-C2	-8.71	115.78	121.00
1	N	945	G	N1-C6-O6	8.70	125.12	119.90
1	N	1032	G	P-O3'-C3'	8.70	130.14	119.70
1	N	1345	U	N1-C2-N3	8.70	120.12	114.90
1	N	26	A	C4-C5-C6	8.70	121.35	117.00
1	N	447	G	N3-C2-N2	8.69	125.99	119.90
1	N	71	A	C3'-C2'-C1'	8.69	108.45	101.50
1	N	723	U	O4'-C1'-N1	8.69	115.15	108.20
1	N	377	G	N1-C6-O6	8.69	125.11	119.90
1	N	1489	G	O4'-C1'-N9	8.69	115.15	108.20
1	N	447	G	C4'-C3'-C2'	-8.68	93.92	102.60
1	N	1419	G	N3-C2-N2	8.68	125.97	119.90
1	N	497	G	N7-C8-N9	-8.68	108.76	113.10
1	N	1130	A	O4'-C1'-N9	8.68	115.14	108.20
1	N	1477	U	N1-C2-O2	-8.68	116.73	122.80
1	N	243	A	N1-C2-N3	8.67	133.64	129.30
1	N	98	A	O4'-C1'-N9	8.67	115.14	108.20
1	N	646	G	N1-C6-O6	8.67	125.10	119.90
1	N	669	G	N1-C6-O6	8.66	125.10	119.90
1	N	765	G	C8-N9-C4	-8.66	102.93	106.40
1	N	428	G	C8-N9-C4	-8.66	102.94	106.40
1	N	1439	G	C5-C6-O6	-8.66	123.40	128.60
1	N	640	A	N1-C6-N6	8.66	123.80	118.60
1	N	1526	G	P-O3'-C3'	-8.66	109.31	119.70
1	N	1039	G	N1-C6-O6	8.66	125.09	119.90
1	N	1254	A	C8-N9-C4	-8.66	102.34	105.80
1	N	255	G	C5-C6-N1	-8.65	107.17	111.50
1	N	307	C	C5-C6-N1	8.65	125.33	121.00
1	N	410	G	N1-C2-N3	-8.65	118.71	123.90
1	N	1353	G	N3-C4-C5	8.65	132.93	128.60
1	N	73	C	N3-C4-N4	8.65	124.06	118.00
1	N	1509	C	O4'-C1'-N1	8.65	115.12	108.20
1	N	517	G	C8-N9-C1'	-8.65	115.76	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1076	U	N3-C4-C5	-8.65	109.41	114.60
1	N	226	G	N3-C2-N2	8.64	125.95	119.90
1	N	1393	U	O4'-C1'-N1	8.64	115.11	108.20
1	N	90	C	P-O5'-C5'	8.64	134.72	120.90
1	N	196	A	N1-C2-N3	8.64	133.62	129.30
1	N	1370	G	C5-C6-N1	-8.64	107.18	111.50
1	N	378	G	C5-C6-O6	-8.64	123.42	128.60
1	N	1058	G	C6-C5-N7	-8.64	125.22	130.40
1	N	1345	U	N1-C2-O2	-8.64	116.75	122.80
1	N	1510	C	C5-C6-N1	8.64	125.32	121.00
1	N	1362	A	N1-C2-N3	8.64	133.62	129.30
1	N	747	A	C6-C5-N7	-8.63	126.26	132.30
1	N	124	C	N3-C4-N4	8.63	124.04	118.00
1	N	126	G	C8-N9-C4	-8.63	102.95	106.40
1	N	232	G	C3'-C2'-C1'	-8.63	94.60	101.50
1	N	804	U	O4'-C1'-N1	8.63	115.10	108.20
1	N	1111	A	C6-C5-N7	-8.63	126.26	132.30
1	N	1257	A	P-O3'-C3'	8.63	130.05	119.70
1	N	71	A	C4-C5-C6	8.62	121.31	117.00
1	N	1387	G	O4'-C1'-N9	8.62	115.10	108.20
1	N	245	U	C1'-O4'-C4'	8.62	116.80	109.90
1	N	747	A	N9-C4-C5	-8.62	102.35	105.80
1	N	841	C	C5-C4-N4	-8.62	114.17	120.20
1	N	1187	G	N1-C6-O6	8.62	125.07	119.90
1	N	222	C	N1-C1'-C2'	-8.62	102.52	112.00
1	N	380	G	N1-C6-O6	8.62	125.07	119.90
1	N	674	G	C5-C6-O6	-8.62	123.43	128.60
1	N	816	A	N9-C4-C5	8.62	109.25	105.80
1	N	1149	C	C6-N1-C2	-8.62	116.85	120.30
1	N	548	G	N1-C6-O6	8.61	125.07	119.90
1	N	729	A	C4-C5-C6	8.61	121.31	117.00
1	N	1257	A	N1-C2-N3	8.61	133.61	129.30
1	N	1130	A	C5-C6-N1	-8.61	113.39	117.70
1	N	720	C	P-O3'-C3'	8.61	130.03	119.70
1	N	1044	A	C5'-C4'-O4'	8.61	119.43	109.10
1	N	1478	U	N3-C4-O4	8.61	125.42	119.40
1	N	699	C	O4'-C1'-N1	8.61	115.09	108.20
1	N	1430	A	C5-C6-N1	-8.61	113.40	117.70
1	N	1199	U	C6-N1-C2	-8.60	115.84	121.00
1	N	1417	G	C5-C6-O6	-8.60	123.44	128.60
1	N	809	G	N3-C2-N2	8.60	125.92	119.90
1	N	923	A	N9-C4-C5	8.60	109.24	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1352	C	N1-C2-O2	-8.60	113.74	118.90
1	N	653	U	C4-C5-C6	8.60	124.86	119.70
1	N	1026	G	C5-C6-O6	-8.60	123.44	128.60
1	N	1278	G	N7-C8-N9	8.60	117.40	113.10
1	N	139	A	C6-N1-C2	8.59	123.76	118.60
1	N	402	G	C5-N7-C8	8.59	108.60	104.30
1	N	678	U	C5-C6-N1	8.59	126.99	122.70
1	N	894	G	N1-C6-O6	8.59	125.05	119.90
1	N	1453	G	N1-C6-O6	8.59	125.06	119.90
1	N	563	A	O4'-C1'-N9	8.59	115.07	108.20
1	N	1013	G	C5-C6-O6	-8.59	123.45	128.60
1	N	1458	G	C5-C6-O6	-8.59	123.45	128.60
1	N	448	A	C4-C5-C6	8.59	121.29	117.00
1	N	573	A	N9-C4-C5	-8.59	102.37	105.80
1	N	1491	G	P-O5'-C5'	8.59	134.64	120.90
1	N	616	G	C5-C6-N1	8.58	115.79	111.50
1	N	144	G	C2-N3-C4	-8.58	107.61	111.90
1	N	243	A	O4'-C1'-N9	8.58	115.06	108.20
1	N	462	G	C6-C5-N7	-8.58	125.25	130.40
1	N	880	C	C1'-O4'-C4'	-8.58	103.03	109.90
1	N	921	U	O4'-C1'-N1	8.58	115.07	108.20
1	N	1146	A	N3-C4-N9	8.58	134.27	127.40
1	N	1440	U	N3-C2-O2	8.58	128.21	122.20
1	N	109	A	N1-C6-N6	8.58	123.75	118.60
1	N	996	A	N3-C4-N9	8.58	134.26	127.40
1	N	1354	U	N3-C4-O4	8.58	125.41	119.40
1	N	831	A	C5-C6-N6	-8.58	116.84	123.70
1	N	1144	G	C5-C6-N1	-8.58	107.21	111.50
1	N	1468	A	C6-C5-N7	-8.58	126.30	132.30
1	N	302	G	N3-C4-N9	-8.57	120.86	126.00
1	N	1150	A	N1-C2-N3	8.57	133.59	129.30
1	N	207	C	O4'-C1'-N1	8.57	115.06	108.20
1	N	830	G	C4-C5-N7	8.57	114.23	110.80
1	N	303	A	C4-C5-C6	8.57	121.28	117.00
1	N	360	G	C4-C5-N7	-8.57	107.37	110.80
1	N	672	U	C2-N3-C4	-8.57	121.86	127.00
1	N	1331	G	N1-C2-N3	-8.57	118.76	123.90
1	N	1383	C	C6-N1-C2	8.57	123.73	120.30
1	N	1484	C	C6-N1-C2	-8.57	116.87	120.30
1	N	288	A	C8-N9-C4	-8.56	102.37	105.80
1	N	563	A	C5'-C4'-O4'	-8.56	98.82	109.10
1	N	1468	A	N9-C4-C5	-8.56	102.38	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1479	C	N1-C2-N3	-8.56	113.21	119.20
1	N	263	A	O4'-C1'-N9	8.56	115.05	108.20
1	N	1375	A	C4'-C3'-C2'	-8.56	94.04	102.60
1	N	139	A	O4'-C1'-N9	8.56	115.05	108.20
1	N	185	U	P-O5'-C5'	8.56	134.59	120.90
1	N	324	G	C4-C5-C6	8.56	123.94	118.80
1	N	1189	U	N1-C2-O2	-8.56	116.81	122.80
1	N	209	U	C5-C6-N1	-8.55	118.42	122.70
1	N	448	A	N1-C2-N3	8.55	133.58	129.30
1	N	1476	A	N1-C6-N6	8.55	123.73	118.60
1	N	50	A	C5-C6-N6	-8.55	116.86	123.70
1	N	970	C	C5-C4-N4	-8.55	114.21	120.20
1	N	1410	A	N7-C8-N9	-8.55	109.52	113.80
1	N	1467	C	N3-C4-N4	8.55	123.99	118.00
1	N	76	G	N3-C4-C5	8.55	132.87	128.60
1	N	267	C	O4'-C1'-N1	8.55	115.04	108.20
1	N	1498	U	P-O3'-C3'	8.55	129.96	119.70
1	N	1225	A	P-O5'-C5'	8.55	134.58	120.90
1	N	1158	C	N3-C4-N4	8.55	123.98	118.00
1	N	1373	G	O4'-C1'-N9	8.55	115.04	108.20
1	N	1455	G	C5-C6-O6	-8.55	123.47	128.60
1	N	1455	G	C6-N1-C2	-8.55	119.97	125.10
1	N	132	C	O4'-C1'-N1	8.54	115.03	108.20
1	N	366	A	C5-C6-N6	-8.54	116.86	123.70
1	N	919	A	N7-C8-N9	8.54	118.07	113.80
1	N	743	A	N1-C6-N6	8.54	123.72	118.60
1	N	1433	A	N1-C2-N3	-8.54	125.03	129.30
1	N	198	G	C5-C6-O6	-8.54	123.48	128.60
1	N	203	G	C8-N9-C4	8.54	109.82	106.40
1	N	894	G	C6-C5-N7	-8.54	125.28	130.40
1	N	941	G	N9-C4-C5	-8.54	101.98	105.40
1	N	1190	G	N3-C4-C5	-8.54	124.33	128.60
1	N	423	G	C4-C5-N7	8.53	114.21	110.80
1	N	976	G	C6-N1-C2	8.53	130.22	125.10
1	N	42	G	C6-C5-N7	-8.53	125.28	130.40
1	N	408	A	C4-C5-C6	8.53	121.27	117.00
1	N	884	U	O4'-C1'-N1	8.53	115.02	108.20
1	N	586	C	C5-C6-N1	-8.53	116.74	121.00
1	N	718	A	C5'-C4'-C3'	-8.53	102.36	116.00
1	N	896	C	C4'-C3'-C2'	-8.53	94.08	102.60
1	N	696	A	C4-C5-C6	8.52	121.26	117.00
1	N	1140	C	C4'-C3'-C2'	-8.52	94.08	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	128	G	N3-C2-N2	8.52	125.86	119.90
1	N	639	G	N7-C8-N9	8.52	117.36	113.10
1	N	922	G	C6-C5-N7	-8.52	125.29	130.40
1	N	993	G	C5-C6-O6	-8.52	123.49	128.60
1	N	526	C	N3-C4-N4	8.51	123.96	118.00
1	N	921	U	C5-C6-N1	8.51	126.96	122.70
1	N	542	G	C4'-C3'-C2'	-8.51	94.09	102.60
1	N	889	A	N3-C4-C5	-8.51	120.84	126.80
1	N	890	G	O4'-C1'-N9	8.51	115.01	108.20
1	N	443	C	N3-C4-C5	-8.51	118.50	121.90
1	N	928	G	O4'-C1'-N9	8.51	115.01	108.20
1	N	1179	A	C5-N7-C8	8.51	108.16	103.90
1	N	141	G	C4-C5-N7	-8.51	107.40	110.80
1	N	558	G	O4'-C1'-N9	8.51	115.01	108.20
1	N	575	G	N1-C6-O6	8.51	125.00	119.90
1	N	802	A	O4'-C1'-N9	8.51	115.01	108.20
1	N	1172	C	C5-C4-N4	-8.51	114.24	120.20
1	N	158	G	O4'-C1'-N9	8.51	115.00	108.20
1	N	424	G	O4'-C4'-C3'	-8.51	95.49	104.00
1	N	451	A	O4'-C1'-N9	8.51	115.00	108.20
1	N	665	A	C5-C6-N6	-8.51	116.90	123.70
1	N	666	G	C5-C6-O6	-8.51	123.50	128.60
1	N	713	G	C6-N1-C2	8.51	130.20	125.10
1	N	143	A	C5-C6-N6	-8.50	116.90	123.70
1	N	773	G	C6-C5-N7	-8.50	125.30	130.40
1	N	1515	G	O4'-C4'-C3'	-8.50	95.50	104.00
1	N	319	G	N3-C4-N9	8.50	131.10	126.00
1	N	575	G	P-O3'-C3'	8.50	129.90	119.70
1	N	877	G	C5-C6-O6	-8.50	123.50	128.60
1	N	1485	U	N1-C2-O2	-8.50	116.85	122.80
1	N	941	G	P-O3'-C3'	8.49	129.89	119.70
1	N	998	C	O4'-C1'-N1	8.49	115.00	108.20
1	N	1488	G	C5-C6-O6	-8.49	123.50	128.60
1	N	1263	C	N3-C4-N4	8.49	123.94	118.00
1	N	636	U	O4'-C1'-N1	8.49	114.99	108.20
1	N	1115	U	C2-N3-C4	-8.49	121.91	127.00
1	N	178	C	N1-C2-N3	-8.48	113.26	119.20
1	N	354	G	C6-C5-N7	-8.48	125.31	130.40
1	N	818	G	C6-C5-N7	-8.48	125.31	130.40
1	N	1032	G	N9-C4-C5	-8.48	102.01	105.40
1	N	959	A	O4'-C1'-N9	8.48	114.99	108.20
1	N	1016	A	C4-C5-C6	8.48	121.24	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	126	G	O4'-C1'-N9	8.48	114.98	108.20
1	N	456	A	C5-C6-N6	-8.48	116.91	123.70
1	N	447	G	C4-C5-N7	8.48	114.19	110.80
1	N	16	A	N1-C6-N6	8.48	123.69	118.60
1	N	297	G	O4'-C1'-N9	8.48	114.98	108.20
1	N	327	A	C5'-C4'-O4'	8.48	119.28	109.10
1	N	444	G	C4-C5-N7	-8.48	107.41	110.80
1	N	452	A	N1-C6-N6	8.48	123.69	118.60
1	N	819	A	C4-C5-C6	8.48	121.24	117.00
1	N	126	G	C5-C6-O6	-8.47	123.52	128.60
1	N	1363	A	C5-C6-N6	-8.47	116.92	123.70
1	N	1507	A	C5-C6-N6	-8.47	116.92	123.70
1	N	372	C	P-O3'-C3'	8.47	129.87	119.70
1	N	442	G	C8-N9-C4	8.47	109.79	106.40
1	N	1145	A	C2-N3-C4	-8.47	106.36	110.60
1	N	1344	C	C1'-O4'-C4'	8.47	116.68	109.90
1	N	679	C	N3-C4-N4	8.47	123.93	118.00
1	N	170	U	N1-C2-O2	-8.47	116.87	122.80
1	N	416	G	C4-C5-C6	8.47	123.88	118.80
1	N	888	G	N7-C8-N9	8.47	117.33	113.10
1	N	1002	G	N9-C4-C5	-8.47	102.01	105.40
1	N	1081	A	O4'-C1'-N9	8.47	114.97	108.20
1	N	231	U	N1-C2-O2	-8.46	116.88	122.80
1	N	371	A	C5-C6-N6	-8.46	116.93	123.70
1	N	606	G	N1-C2-N3	-8.46	118.82	123.90
1	N	771	G	C8-N9-C4	-8.46	103.01	106.40
1	N	210	C	C5-C4-N4	-8.46	114.28	120.20
1	N	369	G	C5-C6-O6	-8.46	123.52	128.60
1	N	575	G	C5-C6-O6	-8.46	123.52	128.60
1	N	683	G	N1-C6-O6	8.46	124.98	119.90
1	N	1058	G	C4-C5-C6	8.46	123.88	118.80
1	N	1518	A	N1-C6-N6	8.46	123.68	118.60
1	N	80	A	P-O3'-C3'	-8.46	109.55	119.70
1	N	222	C	P-O3'-C3'	-8.46	109.55	119.70
1	N	1141	C	C2-N3-C4	8.46	124.13	119.90
1	N	1218	C	O4'-C1'-N1	8.46	114.97	108.20
1	N	1358	U	C4'-C3'-C2'	8.46	111.06	102.60
1	N	539	A	C5-C6-N1	-8.46	113.47	117.70
1	N	6	G	C8-N9-C4	-8.45	103.02	106.40
1	N	362	G	C5-C6-O6	-8.45	123.53	128.60
1	N	1073	U	C6-N1-C2	-8.45	115.93	121.00
1	N	1090	U	N3-C4-C5	-8.45	109.53	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	63	C	C5-C6-N1	8.45	125.22	121.00
1	N	914	A	N1-C6-N6	8.45	123.67	118.60
1	N	1336	C	C1'-O4'-C4'	-8.45	103.14	109.90
1	N	1002	G	C6-C5-N7	-8.45	125.33	130.40
1	N	1504	G	N1-C2-N3	-8.45	118.83	123.90
1	N	1036	A	C8-N9-C4	-8.45	102.42	105.80
1	N	563	A	N1-C6-N6	8.44	123.67	118.60
1	N	498	A	N1-C6-N6	8.44	123.66	118.60
1	N	770	C	O4'-C4'-C3'	-8.44	95.56	104.00
1	N	502	A	C5-N7-C8	-8.44	99.68	103.90
1	N	877	G	N7-C8-N9	-8.44	108.88	113.10
1	N	179	A	N9-C4-C5	-8.44	102.43	105.80
1	N	1341	U	C5-C6-N1	8.44	126.92	122.70
1	N	1396	A	C5-C6-N6	-8.44	116.95	123.70
1	N	497	G	N3-C2-N2	8.43	125.80	119.90
1	N	1406	U	O4'-C1'-N1	8.43	114.95	108.20
1	N	536	C	C4-C5-C6	-8.43	113.19	117.40
1	N	659	U	C6-N1-C2	-8.43	115.94	121.00
1	N	116	A	C2-N3-C4	-8.43	106.39	110.60
1	N	630	A	C5-C6-N1	-8.43	113.48	117.70
1	N	969	A	C6-C5-N7	-8.43	126.40	132.30
1	N	1199	U	C5-C6-N1	8.43	126.92	122.70
1	N	1327	C	O4'-C1'-N1	8.43	114.94	108.20
1	N	134	G	C5-C6-O6	-8.43	123.54	128.60
1	N	444	G	C2-N3-C4	-8.43	107.69	111.90
1	N	934	C	C6-N1-C2	-8.43	116.93	120.30
1	N	1198	G	C4-C5-N7	8.43	114.17	110.80
1	N	510	A	C5-C6-N6	-8.43	116.96	123.70
1	N	1083	U	C6-N1-C2	-8.43	115.94	121.00
1	N	1108	G	O4'-C1'-N9	8.43	114.94	108.20
1	N	922	G	N1-C2-N3	-8.42	118.85	123.90
1	N	499	A	C5-C6-N6	-8.42	116.97	123.70
1	N	578	C	N3-C4-N4	8.42	123.89	118.00
1	N	984	C	C2-N3-C4	8.41	124.11	119.90
1	N	1102	A	N7-C8-N9	-8.41	109.59	113.80
1	N	331	G	N1-C2-N3	-8.41	118.85	123.90
1	N	916	U	N3-C4-O4	8.41	125.29	119.40
1	N	1082	A	C6-C5-N7	-8.41	126.41	132.30
1	N	746	A	O4'-C4'-C3'	-8.41	95.59	104.00
1	N	879	C	C2-N3-C4	8.41	124.10	119.90
1	N	1061	G	P-O3'-C3'	8.41	129.79	119.70
1	N	1016	A	N9-C4-C5	8.40	109.16	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1110	A	C4-C5-N7	-8.40	106.50	110.70
1	N	961	U	N3-C2-O2	8.40	128.08	122.20
1	N	1086	U	C6-N1-C2	-8.40	115.96	121.00
1	N	1322	C	C2-N3-C4	8.40	124.10	119.90
1	N	418	C	C4-C5-C6	-8.40	113.20	117.40
1	N	1415	G	C6-C5-N7	-8.40	125.36	130.40
1	N	312	C	O4'-C1'-N1	8.40	114.92	108.20
1	N	545	C	N3-C4-N4	8.40	123.88	118.00
1	N	1117	A	C4-C5-C6	8.40	121.20	117.00
1	N	1365	G	C2-N3-C4	8.40	116.10	111.90
1	N	143	A	C4-C5-N7	-8.39	106.50	110.70
1	N	504	C	O4'-C1'-N1	8.39	114.91	108.20
1	N	40	C	N1-C2-O2	-8.39	113.86	118.90
1	N	243	A	C4-C5-C6	8.39	121.20	117.00
1	N	832	G	N1-C2-N3	-8.39	118.86	123.90
1	N	127	G	C5-C6-O6	-8.39	123.57	128.60
1	N	421	U	O4'-C1'-N1	8.39	114.91	108.20
1	N	459	A	C5-C6-N1	-8.39	113.51	117.70
1	N	492	C	O4'-C1'-N1	8.39	114.91	108.20
1	N	688	G	N1-C6-O6	8.39	124.93	119.90
1	N	829	G	C6-C5-N7	-8.38	125.37	130.40
1	N	889	A	C4-C5-N7	-8.38	106.51	110.70
1	N	1002	G	N1-C6-O6	8.38	124.93	119.90
1	N	714	G	N3-C2-N2	8.38	125.77	119.90
1	N	1034	G	O4'-C1'-N9	8.38	114.91	108.20
1	N	1131	G	N1-C6-O6	8.38	124.93	119.90
1	N	419	C	N3-C4-N4	8.38	123.86	118.00
1	N	122	G	C5-C6-O6	-8.38	123.57	128.60
1	N	1483	A	P-O5'-C5'	8.38	134.30	120.90
1	N	228	A	N1-C6-N6	8.38	123.63	118.60
1	N	962	C	P-O3'-C3'	-8.38	109.65	119.70
1	N	1494	G	N1-C2-N3	-8.38	118.88	123.90
1	N	114	U	O4'-C1'-N1	8.37	114.90	108.20
1	N	348	G	N3-C4-N9	-8.37	120.98	126.00
1	N	919	A	C8-N9-C4	-8.37	102.45	105.80
1	N	1309	G	N7-C8-N9	8.37	117.28	113.10
1	N	77	A	C2-N3-C4	8.37	114.78	110.60
1	N	93	U	P-O5'-C5'	8.37	134.29	120.90
1	N	538	G	O4'-C1'-N9	8.37	114.89	108.20
1	N	587	G	N1-C6-O6	8.37	124.92	119.90
1	N	706	A	N1-C2-N3	8.37	133.48	129.30
1	N	791	G	C2-N3-C4	8.37	116.08	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1068	G	C6-C5-N7	-8.37	125.38	130.40
1	N	470	C	N3-C4-C5	-8.36	118.55	121.90
1	N	1395	C	C6-N1-C2	-8.37	116.95	120.30
1	N	1453	G	C5-C6-O6	-8.37	123.58	128.60
1	N	6	G	N3-C4-C5	8.36	132.78	128.60
1	N	403	C	O4'-C1'-N1	8.36	114.89	108.20
1	N	734	G	C8-N9-C4	8.36	109.74	106.40
1	N	1032	G	C4-C5-N7	8.36	114.14	110.80
1	N	346	G	P-O5'-C5'	-8.36	107.53	120.90
1	N	423	G	N1-C2-N3	-8.36	118.89	123.90
1	N	1109	C	C5-C4-N4	-8.36	114.35	120.20
1	N	1231	G	C4-C5-C6	8.36	123.81	118.80
1	N	1263	C	O4'-C1'-N1	8.36	114.89	108.20
1	N	1410	A	C4-C5-C6	8.36	121.18	117.00
1	N	139	A	C4-C5-C6	8.35	121.18	117.00
1	N	646	G	C5-C6-O6	-8.35	123.59	128.60
1	N	1197	A	C4-C5-C6	8.35	121.18	117.00
1	N	148	G	P-O5'-C5'	8.35	134.26	120.90
1	N	328	C	O4'-C1'-N1	8.35	114.88	108.20
1	N	809	G	N1-C2-N3	-8.35	118.89	123.90
1	N	1216	A	C5-C6-N6	-8.35	117.02	123.70
1	N	8	A	N7-C8-N9	-8.35	109.63	113.80
1	N	51	A	N1-C6-N6	8.35	123.61	118.60
1	N	398	U	N3-C2-O2	8.35	128.04	122.20
1	N	1271	A	P-O3'-C3'	8.35	129.72	119.70
1	N	136	C	C2-N3-C4	8.34	124.07	119.90
1	N	465	A	N9-C4-C5	8.34	109.14	105.80
1	N	699	C	C2-N3-C4	8.34	124.07	119.90
1	N	796	C	N3-C4-N4	8.34	123.84	118.00
1	N	433	G	N3-C4-N9	-8.34	121.00	126.00
1	N	1283	U	P-O5'-C5'	8.34	134.24	120.90
1	N	913	A	C4-C5-C6	8.33	121.17	117.00
1	N	301	G	C6-C5-N7	-8.33	125.40	130.40
1	N	1321	U	P-O5'-C5'	8.33	134.23	120.90
1	N	1431	A	N1-C6-N6	8.33	123.60	118.60
1	N	376	G	N3-C2-N2	8.33	125.73	119.90
1	N	560	A	C4-C5-C6	8.33	121.17	117.00
1	N	90	C	C5-C4-N4	-8.33	114.37	120.20
1	N	355	C	N3-C4-N4	8.33	123.83	118.00
1	N	531	U	O4'-C1'-N1	8.33	114.86	108.20
1	N	809	G	N7-C8-N9	-8.33	108.94	113.10
1	N	814	A	C5-C6-N6	-8.32	117.04	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1223	C	N3-C4-N4	8.32	123.83	118.00
1	N	1051	C	C5-C4-N4	-8.32	114.37	120.20
1	N	1170	A	C4-C5-C6	8.32	121.16	117.00
1	N	1442	G	C5-C6-N1	-8.32	107.34	111.50
1	N	1492	A	P-O5'-C5'	8.32	134.22	120.90
1	N	235	C	O4'-C1'-N1	8.32	114.86	108.20
1	N	561	U	C6-N1-C2	-8.32	116.01	121.00
1	N	670	G	C4-N9-C1'	-8.32	115.68	126.50
1	N	790	A	C2-N3-C4	-8.32	106.44	110.60
1	N	886	G	C3'-C2'-C1'	-8.32	94.84	101.50
1	N	1094	G	N1-C6-O6	8.32	124.89	119.90
1	N	833	G	C6-C5-N7	-8.32	125.41	130.40
1	N	719	C	C5-C6-N1	8.32	125.16	121.00
1	N	127	G	C6-C5-N7	-8.31	125.41	130.40
1	N	436	C	N3-C4-N4	8.31	123.82	118.00
1	N	57	G	N3-C2-N2	8.31	125.72	119.90
1	N	183	C	C2-N3-C4	8.31	124.06	119.90
1	N	539	A	C4-C5-N7	-8.31	106.54	110.70
1	N	1104	G	C5-C6-N1	8.31	115.66	111.50
1	N	1399	C	C2-N3-C4	8.31	124.06	119.90
1	N	1435	G	C4-N9-C1'	-8.31	115.70	126.50
1	N	560	A	N3-C4-C5	-8.31	120.98	126.80
1	N	944	G	N1-C2-N3	-8.31	118.92	123.90
1	N	1118	U	O4'-C1'-N1	8.31	114.85	108.20
1	N	189	A	C5-C6-N1	-8.30	113.55	117.70
1	N	614	C	C6-N1-C2	-8.31	116.98	120.30
1	N	1486	G	C5-C6-O6	-8.31	123.62	128.60
1	N	351	G	C8-N9-C4	-8.30	103.08	106.40
1	N	1496	C	N1-C2-O2	-8.30	113.92	118.90
1	N	604	G	C6-C5-N7	-8.30	125.42	130.40
1	N	1448	C	O4'-C1'-N1	8.30	114.84	108.20
1	N	1282	C	C5-C4-N4	-8.30	114.39	120.20
1	N	315	A	C5-C6-N1	-8.29	113.55	117.70
1	N	566	G	C6-C5-N7	-8.30	125.42	130.40
1	N	840	C	O4'-C1'-N1	8.29	114.83	108.20
1	N	733	G	O4'-C1'-N9	8.29	114.83	108.20
1	N	54	C	N3-C4-C5	-8.29	118.58	121.90
1	N	399	G	C6-C5-N7	-8.29	125.43	130.40
1	N	971	G	N1-C6-O6	8.29	124.87	119.90
1	N	288	A	C5-C6-N1	-8.29	113.56	117.70
1	N	620	C	C5-C6-N1	8.28	125.14	121.00
1	N	1455	G	C5-C6-N1	8.28	115.64	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	315	A	P-O5'-C5'	8.28	134.15	120.90
1	N	468	A	N3-C4-C5	-8.28	121.00	126.80
1	N	746	A	P-O3'-C3'	-8.28	109.76	119.70
1	N	774	G	N1-C6-O6	8.28	124.87	119.90
1	N	569	C	C1'-O4'-C4'	8.27	116.52	109.90
1	N	726	C	C6-N1-C2	8.27	123.61	120.30
1	N	909	A	N1-C6-N6	8.27	123.56	118.60
1	N	1203	C	N3-C4-C5	-8.27	118.59	121.90
1	N	183	C	N3-C4-C5	-8.27	118.59	121.90
1	N	676	A	C5-C6-N6	-8.27	117.09	123.70
1	N	1125	U	C5'-C4'-C3'	-8.27	102.77	116.00
1	N	264	C	P-O5'-C5'	8.27	134.12	120.90
1	N	755	G	C6-C5-N7	-8.27	125.44	130.40
1	N	1497	G	N9-C4-C5	8.26	108.71	105.40
1	N	1524	C	O4'-C1'-N1	8.26	114.81	108.20
1	N	234	C	C5-C6-N1	8.26	125.13	121.00
1	N	1071	C	O4'-C1'-N1	8.26	114.81	108.20
1	N	1222	G	N1-C6-O6	8.26	124.86	119.90
1	N	78	A	N1-C2-N3	-8.26	125.17	129.30
1	N	665	A	C4-C5-N7	-8.26	106.57	110.70
1	N	768	A	C5-C6-N1	-8.26	113.57	117.70
1	N	435	A	N9-C4-C5	-8.25	102.50	105.80
1	N	813	U	C2-N3-C4	8.25	131.95	127.00
1	N	1417	G	C4-C5-C6	8.25	123.75	118.80
1	N	267	C	C6-N1-C2	-8.25	117.00	120.30
1	N	1311	A	C5-C6-N1	-8.25	113.57	117.70
1	N	388	G	N1-C6-O6	8.25	124.85	119.90
1	N	865	A	C4-C5-C6	8.25	121.12	117.00
1	N	686	U	P-O3'-C3'	8.25	129.59	119.70
1	N	1356	G	N9-C4-C5	-8.25	102.10	105.40
1	N	44	A	N1-C6-N6	8.24	123.55	118.60
1	N	328	C	P-O3'-C3'	8.24	129.59	119.70
1	N	1056	U	N3-C2-O2	8.24	127.97	122.20
1	N	311	C	N3-C4-C5	-8.24	118.60	121.90
1	N	435	A	N3-C4-C5	-8.24	121.03	126.80
1	N	1021	A	N1-C6-N6	8.24	123.55	118.60
1	N	1465	A	C5-C6-N6	-8.24	117.11	123.70
1	N	363	A	N1-C6-N6	8.24	123.54	118.60
1	N	480	U	N3-C4-C5	-8.24	109.66	114.60
1	N	627	G	C4-C5-C6	8.24	123.74	118.80
1	N	122	G	P-O5'-C5'	8.24	134.08	120.90
1	N	532	A	C8-N9-C4	-8.24	102.50	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	487	A	C6-N1-C2	8.24	123.54	118.60
1	N	948	C	C5-C4-N4	-8.24	114.43	120.20
1	N	1299	A	C6-C5-N7	-8.23	126.54	132.30
1	N	78	A	P-O5'-C5'	8.23	134.07	120.90
1	N	277	C	N3-C4-N4	8.23	123.76	118.00
1	N	435	A	C4-C5-C6	8.23	121.12	117.00
1	N	1276	G	C4-C5-N7	8.23	114.09	110.80
1	N	1315	U	O4'-C1'-N1	8.23	114.78	108.20
1	N	606	G	C5-N7-C8	-8.23	100.19	104.30
1	N	97	G	O4'-C1'-N9	8.22	114.78	108.20
1	N	161	A	N1-C6-N6	8.22	123.53	118.60
1	N	1228	C	O4'-C1'-N1	8.22	114.78	108.20
1	N	1498	U	O4'-C1'-N1	8.22	114.78	108.20
1	N	1516	G	C8-N9-C4	8.22	109.69	106.40
1	N	175	C	N1-C2-O2	-8.22	113.97	118.90
1	N	474	G	C5-C6-N1	-8.22	107.39	111.50
1	N	648	A	N3-C4-N9	-8.22	120.82	127.40
1	N	1013	G	C4-C5-N7	-8.22	107.51	110.80
1	N	1043	G	N1-C2-N3	-8.22	118.97	123.90
1	N	1475	G	O4'-C1'-N9	8.22	114.78	108.20
1	N	522	C	N3-C4-C5	-8.22	118.61	121.90
1	N	665	A	C4-C5-C6	8.22	121.11	117.00
1	N	733	G	C4-C5-C6	8.22	123.73	118.80
1	N	980	C	P-O3'-C3'	8.22	129.56	119.70
1	N	1430	A	O4'-C1'-N9	8.21	114.77	108.20
1	N	313	A	N3-C4-C5	-8.21	121.05	126.80
1	N	458	U	C2-N1-C1'	8.21	127.55	117.70
1	N	1119	C	C4-C5-C6	8.21	121.50	117.40
1	N	1172	C	O4'-C1'-N1	8.21	114.77	108.20
1	N	1176	A	C5-C6-N6	-8.21	117.13	123.70
1	N	1225	A	C2-N3-C4	-8.21	106.50	110.60
1	N	1146	A	C4-C5-C6	8.21	121.10	117.00
1	N	484	G	C5-C6-N1	-8.20	107.40	111.50
1	N	504	C	C2-N3-C4	8.21	124.00	119.90
1	N	520	A	N9-C4-C5	-8.21	102.52	105.80
1	N	732	C	C4-C5-C6	8.21	121.50	117.40
1	N	769	G	C6-C5-N7	-8.21	125.48	130.40
1	N	1491	G	P-O3'-C3'	8.21	129.55	119.70
1	N	148	G	O4'-C1'-N9	8.20	114.76	108.20
1	N	33	A	C5-C6-N6	-8.20	117.14	123.70
1	N	665	A	N7-C8-N9	-8.20	109.70	113.80
1	N	1485	U	C4-C5-C6	8.20	124.62	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	11	G	C4-C5-C6	8.20	123.72	118.80
1	N	199	A	N1-C6-N6	8.20	123.52	118.60
1	N	361	G	C6-C5-N7	-8.20	125.48	130.40
1	N	361	G	P-O5'-C5'	8.20	134.02	120.90
1	N	1094	G	C2-N3-C4	8.20	116.00	111.90
1	N	1457	G	C5'-C4'-O4'	8.20	118.94	109.10
1	N	215	C	O4'-C1'-N1	8.20	114.76	108.20
1	N	475	C	O4'-C1'-N1	8.20	114.76	108.20
1	N	866	C	O4'-C1'-N1	8.20	114.76	108.20
1	N	127	G	C4-C5-C6	8.19	123.72	118.80
1	N	612	C	C5-C4-N4	-8.19	114.47	120.20
1	N	659	U	C5-C6-N1	8.19	126.80	122.70
1	N	864	A	C6-C5-N7	-8.19	126.57	132.30
1	N	1248	A	N3-C4-C5	-8.19	121.07	126.80
1	N	1523	G	C2-N3-C4	-8.19	107.80	111.90
1	N	511	C	O4'-C1'-N1	8.19	114.75	108.20
1	N	1370	G	C5'-C4'-C3'	-8.19	102.89	116.00
1	N	1101	A	N9-C4-C5	-8.19	102.53	105.80
1	N	1519	A	C3'-C2'-C1'	-8.19	94.95	101.50
1	N	94	G	N1-C6-O6	8.18	124.81	119.90
1	N	429	U	O4'-C1'-N1	8.18	114.75	108.20
1	N	501	C	N3-C4-N4	8.18	123.73	118.00
1	N	1039	G	C5-C6-O6	-8.18	123.69	128.60
1	N	1178	G	C6-C5-N7	-8.18	125.49	130.40
1	N	86	G	N1-C6-O6	8.18	124.81	119.90
1	N	146	G	C5-C6-N1	-8.18	107.41	111.50
1	N	515	G	P-O5'-C5'	8.18	133.99	120.90
1	N	758	C	O4'-C1'-N1	8.18	114.74	108.20
1	N	939	G	N1-C2-N3	-8.18	118.99	123.90
1	N	1162	C	C2-N3-C4	8.18	123.99	119.90
1	N	97	G	N1-C2-N3	-8.18	118.99	123.90
1	N	719	C	C6-N1-C2	-8.18	117.03	120.30
1	N	1201	A	C4-C5-C6	8.18	121.09	117.00
1	N	1483	A	C5-N7-C8	8.18	107.99	103.90
1	N	321	A	C5-C6-N1	-8.17	113.61	117.70
1	N	26	A	C4-C5-N7	-8.17	106.61	110.70
1	N	162	A	O4'-C1'-N9	8.17	114.74	108.20
1	N	402	G	C4-C5-N7	-8.17	107.53	110.80
1	N	602	A	C5-C6-N1	-8.17	113.61	117.70
1	N	1138	G	O4'-C1'-N9	8.17	114.74	108.20
1	N	1110	A	C5-N7-C8	8.17	107.98	103.90
1	N	433	G	N1-C2-N3	-8.17	119.00	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	472	U	C6-N1-C2	-8.17	116.10	121.00
1	N	939	G	C5-N7-C8	-8.17	100.22	104.30
1	N	1438	G	C6-N1-C2	8.17	130.00	125.10
1	N	231	U	O4'-C1'-N1	8.16	114.73	108.20
1	N	357	G	C5-C6-O6	-8.16	123.70	128.60
1	N	546	A	C5-C6-N1	-8.16	113.62	117.70
1	N	1369	C	N1-C2-O2	-8.16	114.00	118.90
1	N	149	A	N3-C4-C5	-8.16	121.09	126.80
1	N	1177	G	N1-C2-N3	-8.16	119.00	123.90
1	N	1018	G	P-O3'-C3'	8.16	129.49	119.70
1	N	479	U	O4'-C1'-N1	8.16	114.73	108.20
1	N	601	G	N1-C2-N3	-8.16	119.01	123.90
1	N	689	C	P-O5'-C5'	8.16	133.95	120.90
1	N	1233	G	C5-C6-N1	-8.16	107.42	111.50
1	N	77	A	C5'-C4'-O4'	8.15	118.88	109.10
1	N	243	A	C6-C5-N7	-8.15	126.59	132.30
1	N	1477	U	N3-C2-O2	8.15	127.91	122.20
1	N	92	U	N1-C2-N3	8.15	119.79	114.90
1	N	547	A	C5-C6-N6	-8.15	117.18	123.70
1	N	996	A	C4-C5-C6	8.15	121.08	117.00
1	N	1251	A	C4-C5-C6	8.15	121.08	117.00
1	N	1410	A	C5-C6-N1	-8.15	113.62	117.70
1	N	1440	U	N1-C2-N3	-8.15	110.01	114.90
1	N	399	G	C6-N1-C2	8.15	129.99	125.10
1	N	655	A	C5-C6-N1	-8.15	113.63	117.70
1	N	1459	G	N1-C6-O6	8.15	124.79	119.90
1	N	61	G	N3-C2-N2	8.14	125.60	119.90
1	N	1210	C	C5-C6-N1	8.14	125.07	121.00
1	N	133	U	C4-C5-C6	-8.14	114.82	119.70
1	N	1456	A	C5-C6-N6	-8.14	117.19	123.70
1	N	830	G	O4'-C1'-N9	8.13	114.71	108.20
1	N	896	C	N3-C4-C5	-8.13	118.65	121.90
1	N	1066	C	C2-N3-C4	-8.13	115.83	119.90
1	N	1149	C	C2-N3-C4	8.13	123.97	119.90
1	N	440	C	N3-C4-N4	8.13	123.69	118.00
1	N	938	A	N1-C2-N3	8.13	133.37	129.30
1	N	85	U	O4'-C1'-N1	8.12	114.70	108.20
1	N	353	A	C5-C6-N1	-8.13	113.64	117.70
1	N	813	U	P-O3'-C3'	-8.12	109.95	119.70
1	N	1072	G	C5-C6-O6	-8.12	123.73	128.60
1	N	1465	A	C5-C6-N1	-8.12	113.64	117.70
1	N	68	G	N7-C8-N9	8.12	117.16	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	198	G	C6-N1-C2	8.12	129.97	125.10
1	N	636	U	C6-N1-C2	-8.12	116.13	121.00
1	N	706	A	C6-N1-C2	-8.12	113.73	118.60
1	N	307	C	O4'-C1'-N1	8.12	114.70	108.20
1	N	664	G	C5-C6-O6	-8.12	123.73	128.60
1	N	1013	G	C2-N3-C4	8.12	115.96	111.90
1	N	1084	G	N1-C2-N3	-8.12	119.03	123.90
1	N	1108	G	C4-C5-C6	8.12	123.67	118.80
1	N	262	A	C4-C5-C6	8.12	121.06	117.00
1	N	756	C	O4'-C1'-N1	8.12	114.70	108.20
1	N	859	G	N9-C4-C5	-8.12	102.15	105.40
1	N	441	A	N1-C6-N6	8.12	123.47	118.60
1	N	152	A	N1-C6-N6	8.12	123.47	118.60
1	N	699	C	N3-C4-C5	-8.12	118.65	121.90
1	N	1306	A	O4'-C1'-N9	8.11	114.69	108.20
1	N	21	G	C8-N9-C4	-8.11	103.16	106.40
1	N	109	A	O4'-C1'-N9	8.11	114.69	108.20
1	N	553	A	C2-N3-C4	-8.11	106.55	110.60
1	N	648	A	N9-C4-C5	8.11	109.04	105.80
1	N	997	U	O4'-C1'-N1	8.11	114.69	108.20
1	N	1080	A	C5-C6-N6	-8.11	117.21	123.70
1	N	1343	G	N1-C2-N3	-8.11	119.03	123.90
1	N	1408	A	C4-C5-C6	8.11	121.06	117.00
1	N	173	U	N1-C2-O2	-8.11	117.12	122.80
1	N	827	U	O4'-C1'-N1	8.11	114.69	108.20
1	N	1093	A	C5-C6-N1	-8.11	113.65	117.70
1	N	695	A	C6-N1-C2	8.11	123.46	118.60
1	N	987	G	N1-C6-O6	8.11	124.76	119.90
1	N	1449	C	N1-C2-N3	-8.11	113.53	119.20
1	N	1061	G	C5-C6-O6	-8.10	123.74	128.60
1	N	599	C	C5-C6-N1	8.10	125.05	121.00
1	N	759	A	O4'-C1'-N9	8.10	114.68	108.20
1	N	770	C	N3-C4-C5	-8.10	118.66	121.90
1	N	777	A	N7-C8-N9	-8.10	109.75	113.80
1	N	808	C	O4'-C1'-N1	8.10	114.68	108.20
1	N	881	G	N3-C2-N2	8.10	125.57	119.90
1	N	1099	G	C8-N9-C1'	8.10	137.53	127.00
1	N	1231	G	C1'-O4'-C4'	8.10	116.38	109.90
1	N	53	A	C5-C6-N1	-8.10	113.65	117.70
1	N	296	U	N1-C2-O2	-8.10	117.13	122.80
1	N	665	A	N3-C4-C5	-8.10	121.13	126.80
1	N	696	A	N1-C2-N3	-8.10	125.25	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	61	G	C4-C5-C6	8.09	123.66	118.80
1	N	285	C	C5-C6-N1	8.09	125.05	121.00
1	N	574	A	P-O3'-C3'	8.09	129.41	119.70
1	N	1022	A	C4-C5-C6	8.09	121.05	117.00
1	N	1201	A	N9-C4-C5	8.09	109.04	105.80
1	N	576	C	O4'-C1'-N1	8.09	114.67	108.20
1	N	271	C	N3-C4-N4	8.09	123.66	118.00
1	N	281	G	C2-N3-C4	8.09	115.94	111.90
1	N	874	G	C6-N1-C2	-8.09	120.25	125.10
1	N	1010	U	O4'-C1'-N1	8.09	114.67	108.20
1	N	834	U	N1-C2-N3	-8.09	110.05	114.90
1	N	1230	C	P-O5'-C5'	8.09	133.84	120.90
1	N	94	G	C3'-C2'-C1'	8.08	107.97	101.50
1	N	1036	A	C5-N7-C8	8.08	107.94	103.90
1	N	604	G	N7-C8-N9	-8.08	109.06	113.10
1	N	1165	U	N1-C2-O2	-8.08	117.14	122.80
1	N	1187	G	C8-N9-C4	-8.08	103.17	106.40
1	N	1007	U	N1-C2-O2	-8.08	117.14	122.80
1	N	438	U	C1'-O4'-C4'	-8.08	103.44	109.90
1	N	568	G	O4'-C1'-N9	8.08	114.66	108.20
1	N	1324	A	N1-C2-N3	8.08	133.34	129.30
1	N	1350	A	O4'-C1'-N9	8.08	114.66	108.20
1	N	391	G	N1-C2-N3	-8.07	119.06	123.90
1	N	1409	C	N3-C4-N4	8.07	123.65	118.00
1	N	564	C	N3-C4-N4	8.07	123.65	118.00
1	N	146	G	P-O5'-C5'	8.07	133.81	120.90
1	N	376	G	O4'-C1'-N9	8.07	114.66	108.20
1	N	870	U	N1-C2-N3	8.07	119.74	114.90
1	N	1004	A	C5-C6-N1	-8.07	113.67	117.70
1	N	1482	G	C4-C5-N7	8.07	114.03	110.80
1	N	202	G	N7-C8-N9	8.07	117.14	113.10
1	N	65	A	C5-C6-N1	-8.07	113.67	117.70
1	N	203	G	N3-C2-N2	8.07	125.55	119.90
1	N	542	G	C4-C5-C6	8.07	123.64	118.80
1	N	271	C	C5-C4-N4	-8.07	114.55	120.20
1	N	771	G	N1-C6-O6	8.07	124.74	119.90
1	N	1492	A	N1-C6-N6	8.07	123.44	118.60
1	N	438	U	C5-C4-O4	8.06	130.74	125.90
1	N	280	C	P-O3'-C3'	8.06	129.37	119.70
1	N	792	A	C4-C5-C6	8.06	121.03	117.00
1	N	979	C	N3-C4-N4	8.06	123.64	118.00
1	N	1161	C	C5-C6-N1	8.06	125.03	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1175	G	C6-C5-N7	-8.06	125.56	130.40
1	N	185	U	O4'-C1'-N1	8.06	114.65	108.20
1	N	1115	U	P-O3'-C3'	-8.06	110.03	119.70
1	N	1229	A	N3-C4-N9	8.06	133.85	127.40
1	N	275	G	C5'-C4'-C3'	-8.06	103.11	116.00
1	N	1369	C	C6-N1-C2	-8.06	117.08	120.30
1	N	379	C	O4'-C1'-N1	8.05	114.64	108.20
1	N	457	G	C8-N9-C4	8.06	109.62	106.40
1	N	1142	G	N9-C4-C5	-8.05	102.18	105.40
1	N	1156	G	O4'-C1'-N9	8.06	114.64	108.20
1	N	1059	C	N3-C4-N4	8.05	123.64	118.00
1	N	106	C	N1-C1'-C2'	8.05	124.47	114.00
1	N	804	U	N3-C2-O2	8.05	127.84	122.20
1	N	1130	A	C5-N7-C8	8.05	107.93	103.90
1	N	1483	A	C5-C6-N6	-8.05	117.26	123.70
1	N	391	G	N3-C2-N2	8.04	125.53	119.90
1	N	604	G	C5-C6-N1	-8.04	107.48	111.50
1	N	961	U	C2-N3-C4	8.05	131.83	127.00
1	N	1190	G	C4-C5-C6	8.05	123.63	118.80
1	N	880	C	C5-C4-N4	-8.04	114.57	120.20
1	N	147	G	C5-C6-N1	-8.04	107.48	111.50
1	N	486	U	O4'-C1'-N1	8.04	114.63	108.20
1	N	1205	U	C2-N3-C4	-8.04	122.18	127.00
1	N	195	A	C5-N7-C8	8.04	107.92	103.90
1	N	909	A	O4'-C1'-N9	8.04	114.63	108.20
1	N	448	A	C5-C6-N6	-8.04	117.27	123.70
1	N	1394	A	O4'-C1'-N9	8.04	114.63	108.20
1	N	218	U	O4'-C1'-N1	8.03	114.63	108.20
1	N	232	G	C4-C5-N7	-8.03	107.59	110.80
1	N	901	A	C6-C5-N7	-8.03	126.68	132.30
1	N	932	C	C6-N1-C2	-8.03	117.09	120.30
1	N	1050	G	C5-C6-N1	-8.03	107.48	111.50
1	N	1155	A	C2-N3-C4	-8.03	106.58	110.60
1	N	1404	C	N1-C2-N3	-8.03	113.58	119.20
1	N	1411	C	N3-C4-C5	-8.03	118.69	121.90
1	N	1520	C	P-O3'-C3'	8.03	129.34	119.70
1	N	21	G	C4-N9-C1'	8.03	136.94	126.50
1	N	451	A	C5-N7-C8	8.03	107.91	103.90
1	N	595	A	C2-N3-C4	-8.03	106.59	110.60
1	N	459	A	P-O3'-C3'	-8.03	110.07	119.70
1	N	1527	U	C4-C5-C6	-8.03	114.88	119.70
1	N	454	G	C4-C5-C6	8.02	123.61	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	362	G	O4'-C1'-N9	8.02	114.62	108.20
1	N	144	G	N1-C6-O6	8.02	124.71	119.90
1	N	1394	A	N1-C6-N6	8.02	123.41	118.60
1	N	1489	G	C5-C6-N1	-8.02	107.49	111.50
1	N	236	A	C5-C6-N1	-8.02	113.69	117.70
1	N	1241	G	C5-N7-C8	8.02	108.31	104.30
1	N	414	A	C8-N9-C4	-8.02	102.59	105.80
1	N	1013	G	C8-N9-C4	-8.02	103.19	106.40
1	N	1306	A	N3-C4-N9	8.02	133.81	127.40
1	N	110	C	O4'-C1'-N1	8.01	114.61	108.20
1	N	365	U	C5-C6-N1	8.01	126.71	122.70
1	N	506	G	N1-C6-O6	8.01	124.71	119.90
1	N	600	A	C4-C5-C6	8.01	121.01	117.00
1	N	205	A	C8-N9-C4	-8.01	102.60	105.80
1	N	495	A	C5-N7-C8	8.01	107.91	103.90
1	N	1277	C	O4'-C1'-N1	8.01	114.61	108.20
1	N	516	U	P-O5'-C5'	8.01	133.71	120.90
1	N	730	G	P-O3'-C3'	8.01	129.31	119.70
1	N	31	G	C1'-O4'-C4'	-8.00	103.50	109.90
1	N	1484	C	N3-C4-C5	-8.00	118.70	121.90
1	N	195	A	C5-C6-N1	-8.00	113.70	117.70
1	N	456	A	C8-N9-C4	-8.00	102.60	105.80
1	N	1410	A	O4'-C1'-N9	8.00	114.60	108.20
1	N	1190	G	C2-N3-C4	8.00	115.90	111.90
1	N	155	A	C6-N1-C2	7.99	123.40	118.60
1	N	1060	U	C5-C4-O4	-7.99	121.11	125.90
1	N	260	G	P-O3'-C3'	7.99	129.28	119.70
1	N	1248	A	C4-C5-C6	7.99	120.99	117.00
1	N	887	G	O4'-C1'-N9	7.99	114.59	108.20
1	N	759	A	C5-C6-N1	-7.98	113.71	117.70
1	N	1251	A	N9-C4-C5	7.98	108.99	105.80
1	N	196	A	C2-N3-C4	-7.98	106.61	110.60
1	N	517	G	C4-N9-C1'	7.98	136.88	126.50
1	N	229	U	O4'-C1'-N1	7.98	114.58	108.20
1	N	1221	G	C5-C6-O6	-7.98	123.81	128.60
1	N	158	G	C4'-C3'-C2'	-7.98	94.62	102.60
1	N	548	G	C4-C5-C6	7.98	123.59	118.80
1	N	1067	A	C5-C6-N6	-7.98	117.32	123.70
1	N	746	A	C8-N9-C4	-7.97	102.61	105.80
1	N	933	G	O4'-C1'-N9	7.97	114.58	108.20
1	N	1070	U	N3-C4-O4	7.97	124.98	119.40
1	N	1092	A	C5-C6-N6	-7.97	117.32	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	965	U	O4'-C1'-N1	7.97	114.58	108.20
1	N	1470	U	C5-C6-N1	7.97	126.69	122.70
1	N	151	A	C4-C5-N7	-7.97	106.72	110.70
1	N	807	A	N1-C6-N6	7.97	123.38	118.60
1	N	1097	C	C6-N1-C2	-7.97	117.11	120.30
1	N	650	G	N7-C8-N9	7.97	117.08	113.10
1	N	326	G	N1-C6-O6	7.97	124.68	119.90
1	N	499	A	C3'-C2'-C1'	7.97	107.87	101.50
1	N	746	A	N1-C2-N3	7.96	133.28	129.30
1	N	200	G	N3-C2-N2	7.96	125.47	119.90
1	N	211	G	C6-C5-N7	-7.96	125.62	130.40
1	N	971	G	C5-C6-O6	-7.96	123.82	128.60
1	N	1074	G	C8-N9-C4	7.96	109.58	106.40
1	N	39	G	O4'-C1'-N9	7.96	114.57	108.20
1	N	484	G	N1-C6-O6	7.96	124.68	119.90
1	N	1051	C	N3-C4-C5	-7.96	118.72	121.90
1	N	1377	A	C2-N3-C4	7.96	114.58	110.60
1	N	1487	G	C8-N9-C4	7.96	109.58	106.40
1	N	736	C	N3-C4-N4	7.96	123.57	118.00
1	N	1142	G	N1-C6-O6	7.96	124.67	119.90
1	N	1077	G	N1-C6-O6	7.96	124.67	119.90
1	N	484	G	C4'-C3'-C2'	7.95	110.55	102.60
1	N	768	A	C5-C6-N6	-7.95	117.34	123.70
1	N	1457	G	N1-C2-N3	-7.95	119.13	123.90
1	N	538	G	N3-C2-N2	7.95	125.46	119.90
1	N	947	G	N9-C4-C5	-7.95	102.22	105.40
1	N	1272	G	C5-C6-O6	-7.95	123.83	128.60
1	N	351	G	C5-C6-N1	7.95	115.47	111.50
1	N	778	G	C3'-C2'-C1'	7.95	107.86	101.50
1	N	1488	G	C6-C5-N7	-7.95	125.63	130.40
1	N	134	G	C3'-C2'-C1'	-7.95	95.14	101.50
1	N	817	C	O4'-C1'-N1	7.95	114.56	108.20
1	N	945	G	P-O5'-C5'	7.95	133.61	120.90
1	N	1021	A	C4-C5-C6	7.95	120.97	117.00
1	N	1108	G	N1-C2-N3	-7.95	119.13	123.90
1	N	1149	C	O4'-C1'-N1	7.95	114.56	108.20
1	N	340	U	N1-C2-O2	-7.94	117.24	122.80
1	N	455	G	N9-C4-C5	-7.94	102.22	105.40
1	N	1023	U	C4-C5-C6	-7.94	114.94	119.70
1	N	1170	A	N7-C8-N9	7.94	117.77	113.80
1	N	1268	G	C6-C5-N7	-7.94	125.63	130.40
1	N	438	U	N3-C4-C5	-7.94	109.84	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1046	A	N7-C8-N9	-7.94	109.83	113.80
1	N	1062	U	C2-N1-C1'	7.94	127.23	117.70
1	N	1491	G	C8-N9-C1'	7.94	137.32	127.00
1	N	681	A	N3-C4-N9	7.94	133.75	127.40
1	N	1374	A	C5'-C4'-O4'	7.94	118.63	109.10
1	N	68	G	N1-C6-O6	7.94	124.66	119.90
1	N	240	G	N3-C4-C5	-7.94	124.63	128.60
1	N	292	G	O4'-C1'-N9	7.94	114.55	108.20
1	N	440	C	C5-C4-N4	-7.94	114.64	120.20
1	N	1345	U	C6-N1-C2	-7.94	116.24	121.00
1	N	1389	C	C5-C4-N4	-7.94	114.64	120.20
1	N	805	C	P-O5'-C5'	7.94	133.60	120.90
1	N	1279	G	N1-C2-N3	-7.93	119.14	123.90
1	N	1301	U	C4-C5-C6	-7.93	114.94	119.70
1	N	160	A	N1-C6-N6	7.93	123.36	118.60
1	N	239	U	C2-N3-C4	-7.93	122.24	127.00
1	N	1259	C	P-O3'-C3'	7.93	129.22	119.70
1	N	211	G	C3'-C2'-C1'	7.93	107.84	101.50
1	N	861	G	P-O3'-C3'	7.93	129.22	119.70
1	N	1230	C	C2-N1-C1'	7.93	127.52	118.80
1	N	1252	A	O4'-C1'-N9	7.93	114.54	108.20
1	N	404	G	P-O3'-C3'	-7.92	110.19	119.70
1	N	1073	U	N1-C2-O2	-7.92	117.25	122.80
1	N	1115	U	O4'-C1'-N1	7.92	114.54	108.20
1	N	949	A	C5-C6-N6	-7.92	117.36	123.70
1	N	713	G	N1-C2-N3	-7.92	119.15	123.90
1	N	639	G	C4-C5-C6	7.92	123.55	118.80
1	N	513	C	N3-C4-N4	7.92	123.54	118.00
1	N	752	G	O4'-C1'-N9	7.92	114.53	108.20
1	N	926	G	N1-C2-N3	-7.92	119.15	123.90
1	N	35	G	N1-C6-O6	7.92	124.65	119.90
1	N	220	G	C5-C6-N1	-7.92	107.54	111.50
1	N	781	A	C5-C6-N1	-7.92	113.74	117.70
1	N	1494	G	N1-C6-O6	7.92	124.65	119.90
1	N	57	G	C6-C5-N7	-7.92	125.65	130.40
1	N	666	G	C4-C5-N7	-7.92	107.63	110.80
1	N	1087	G	O4'-C1'-N9	7.92	114.53	108.20
1	N	1156	G	N7-C8-N9	-7.91	109.14	113.10
1	N	656	G	N1-C6-O6	7.91	124.65	119.90
1	N	945	G	C2-N3-C4	7.91	115.86	111.90
1	N	199	A	C1'-O4'-C4'	7.91	116.23	109.90
1	N	1246	A	O4'-C1'-N9	7.91	114.53	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1301	U	O4'-C1'-N1	7.91	114.53	108.20
1	N	818	G	C8-N9-C1'	-7.91	116.72	127.00
1	N	880	C	O4'-C1'-N1	7.91	114.53	108.20
1	N	985	C	C5-C4-N4	-7.91	114.67	120.20
1	N	1375	A	O4'-C1'-N9	7.91	114.53	108.20
1	N	615	G	N1-C2-N3	-7.90	119.16	123.90
1	N	200	G	C5-N7-C8	-7.90	100.35	104.30
1	N	389	A	C4-C5-C6	7.90	120.95	117.00
1	N	1144	G	C5-C6-O6	-7.90	123.86	128.60
1	N	1499	A	O4'-C1'-N9	7.90	114.52	108.20
1	N	656	G	C5-C6-O6	-7.90	123.86	128.60
1	N	954	G	C6-N1-C2	7.90	129.84	125.10
1	N	1097	C	N3-C4-N4	7.90	123.53	118.00
1	N	900	A	C6-N1-C2	-7.90	113.86	118.60
1	N	947	G	C8-N9-C4	7.90	109.56	106.40
1	N	1062	U	N3-C2-O2	7.90	127.73	122.20
1	N	49	U	N3-C4-C5	-7.89	109.86	114.60
1	N	341	C	N3-C4-N4	7.89	123.53	118.00
1	N	661	G	N1-C2-N3	-7.89	119.16	123.90
1	N	249	U	O4'-C1'-N1	7.89	114.51	108.20
1	N	1041	G	N3-C4-C5	-7.89	124.65	128.60
1	N	1092	A	C8-N9-C4	-7.89	102.64	105.80
1	N	1338	G	C5-N7-C8	7.89	108.25	104.30
1	N	1347	G	N1-C2-N3	-7.89	119.17	123.90
1	N	427	U	N3-C2-O2	-7.89	116.68	122.20
1	N	524	G	C5-C6-O6	-7.89	123.87	128.60
1	N	617	G	N3-C2-N2	7.89	125.42	119.90
1	N	705	G	N3-C2-N2	7.89	125.42	119.90
1	N	841	C	O4'-C1'-N1	7.89	114.51	108.20
1	N	711	G	C4-C5-N7	-7.89	107.64	110.80
1	N	248	C	C6-N1-C2	-7.89	117.14	120.30
1	N	432	A	C5-N7-C8	7.89	107.84	103.90
1	N	677	U	C6-N1-C2	-7.89	116.27	121.00
1	N	16	A	C3'-C2'-C1'	7.88	107.81	101.50
1	N	1131	G	C5-C6-O6	-7.88	123.87	128.60
1	N	1231	G	C6-N1-C2	7.88	129.83	125.10
1	N	693	G	O4'-C1'-N9	7.88	114.51	108.20
1	N	82	G	O4'-C1'-N9	7.88	114.50	108.20
1	N	1427	C	C4'-C3'-C2'	-7.88	94.72	102.60
1	N	844	G	N1-C6-O6	7.88	124.63	119.90
1	N	1171	A	O4'-C1'-N9	7.88	114.50	108.20
1	N	1459	G	C5-C6-O6	-7.88	123.87	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	583	A	P-O3'-C3'	-7.87	110.25	119.70
1	N	126	G	N1-C6-O6	7.87	124.62	119.90
1	N	657	U	C4-C5-C6	7.87	124.42	119.70
1	N	1296	C	N3-C4-N4	7.87	123.51	118.00
1	N	1232	U	O4'-C1'-N1	7.87	114.50	108.20
1	N	596	A	C3'-C2'-C1'	7.87	107.80	101.50
1	N	778	G	O4'-C1'-N9	7.87	114.50	108.20
1	N	1213	A	C5-N7-C8	7.87	107.83	103.90
1	N	233	C	C5-C4-N4	-7.87	114.69	120.20
1	N	1225	A	C5-C6-N1	-7.87	113.77	117.70
1	N	826	C	N3-C4-C5	-7.86	118.75	121.90
1	N	1124	G	N1-C6-O6	7.86	124.62	119.90
1	N	101	A	N1-C6-N6	7.86	123.32	118.60
1	N	243	A	P-O3'-C3'	7.86	129.13	119.70
1	N	427	U	C5-C4-O4	-7.86	121.18	125.90
1	N	634	C	P-O3'-C3'	7.86	129.13	119.70
1	N	680	C	O4'-C1'-N1	7.86	114.49	108.20
1	N	1402	C	N3-C4-C5	-7.86	118.76	121.90
1	N	630	A	P-O3'-C3'	7.86	129.13	119.70
1	N	679	C	C2-N3-C4	7.86	123.83	119.90
1	N	184	G	C4-C5-C6	7.86	123.52	118.80
1	N	278	G	O4'-C1'-N9	7.86	114.49	108.20
1	N	444	G	N1-C6-O6	7.86	124.61	119.90
1	N	465	A	N3-C4-C5	-7.86	121.30	126.80
1	N	1368	A	N9-C4-C5	7.86	108.94	105.80
1	N	1400	C	O4'-C1'-N1	7.86	114.49	108.20
1	N	7	A	C1'-O4'-C4'	-7.86	103.62	109.90
1	N	108	G	N3-C4-C5	-7.86	124.67	128.60
1	N	629	A	N1-C6-N6	7.86	123.31	118.60
1	N	898	G	N1-C2-N3	-7.86	119.19	123.90
1	N	1074	G	C5-N7-C8	7.86	108.23	104.30
1	N	818	G	C4-C5-C6	7.85	123.51	118.80
1	N	595	A	C5-C6-N1	-7.85	113.77	117.70
1	N	556	C	N3-C4-C5	-7.85	118.76	121.90
1	N	616	G	N9-C4-C5	-7.85	102.26	105.40
1	N	609	A	N1-C6-N6	7.85	123.31	118.60
1	N	858	G	C3'-C2'-C1'	-7.85	95.22	101.50
1	N	1182	G	N1-C2-N3	-7.85	119.19	123.90
1	N	320	A	C5-C6-N1	-7.85	113.78	117.70
1	N	1405	G	N1-C6-O6	7.85	124.61	119.90
1	N	1497	G	C2-N3-C4	7.85	115.82	111.90
1	N	270	A	C5-C6-N6	-7.84	117.42	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	582	C	C5-C4-N4	-7.84	114.71	120.20
1	N	670	G	N1-C6-O6	7.84	124.61	119.90
1	N	1177	G	C6-N1-C2	7.84	129.81	125.10
1	N	323	U	O4'-C1'-N1	7.84	114.47	108.20
1	N	1154	G	C6-C5-N7	-7.84	125.69	130.40
1	N	447	G	N9-C4-C5	-7.84	102.26	105.40
1	N	803	G	C5-C6-N1	-7.84	107.58	111.50
1	N	1332	A	C5'-C4'-C3'	-7.84	103.46	116.00
1	N	1468	A	C4-C5-N7	7.84	114.62	110.70
1	N	477	C	C4-C5-C6	7.84	121.32	117.40
1	N	1238	A	N1-C6-N6	7.84	123.30	118.60
1	N	565	U	N1-C2-N3	-7.84	110.20	114.90
1	N	138	G	O4'-C1'-N9	7.83	114.47	108.20
1	N	785	G	N1-C6-O6	7.83	124.60	119.90
1	N	1254	A	C5-C6-N1	-7.83	113.78	117.70
1	N	236	A	O4'-C1'-N9	7.83	114.47	108.20
1	N	1207	G	C6-C5-N7	-7.83	125.70	130.40
1	N	1414	U	O4'-C1'-N1	7.83	114.47	108.20
1	N	929	G	C5-C6-O6	-7.83	123.90	128.60
1	N	1121	U	P-O3'-C3'	-7.83	110.31	119.70
1	N	1165	U	C2-N3-C4	-7.83	122.30	127.00
1	N	1260	G	N9-C4-C5	-7.83	102.27	105.40
1	N	344	A	P-O3'-C3'	7.83	129.09	119.70
1	N	946	A	P-O3'-C3'	7.82	129.09	119.70
1	N	1334	G	N1-C2-N3	-7.82	119.21	123.90
1	N	600	A	C5-C6-N1	-7.82	113.79	117.70
1	N	1268	G	C4-C5-N7	7.82	113.93	110.80
1	N	1454	G	N3-C4-C5	7.82	132.51	128.60
1	N	221	C	C6-N1-C2	-7.82	117.17	120.30
1	N	565	U	C6-N1-C2	7.82	125.69	121.00
1	N	729	A	C5-C6-N1	-7.82	113.79	117.70
1	N	908	A	C4-C5-C6	7.82	120.91	117.00
1	N	839	C	N3-C4-N4	7.81	123.47	118.00
1	N	369	G	C8-N9-C4	7.81	109.53	106.40
1	N	1499	A	N3-C4-C5	-7.81	121.33	126.80
1	N	33	A	C4-C5-C6	7.81	120.90	117.00
1	N	391	G	P-O3'-C3'	7.81	129.07	119.70
1	N	892	A	C5'-C4'-C3'	7.81	128.50	116.00
1	N	1369	C	C5-C4-N4	-7.81	114.73	120.20
1	N	1409	C	N3-C4-C5	-7.81	118.78	121.90
1	N	1529	G	N1-C6-O6	7.81	124.58	119.90
1	N	214	C	C5'-C4'-O4'	7.80	118.47	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	916	U	O4'-C1'-N1	7.80	114.44	108.20
1	N	1152	A	C5-C6-N6	-7.80	117.46	123.70
1	N	587	G	C6-N1-C2	7.80	129.78	125.10
1	N	1085	U	P-O3'-C3'	-7.80	110.34	119.70
1	N	1175	G	N1-C6-O6	7.80	124.58	119.90
1	N	1178	G	C5-C6-N1	-7.80	107.60	111.50
1	N	87	C	C4-C5-C6	7.80	121.30	117.40
1	N	832	G	O4'-C1'-N9	7.80	114.44	108.20
1	N	627	G	C5-C6-O6	-7.80	123.92	128.60
1	N	1377	A	C5-C6-N1	-7.80	113.80	117.70
1	N	1429	A	C5-C6-N6	-7.80	117.46	123.70
1	N	1460	C	C3'-C2'-C1'	7.80	107.74	101.50
1	N	507	C	C5-C4-N4	-7.79	114.74	120.20
1	N	1497	G	N1-C2-N3	-7.79	119.22	123.90
1	N	1512	U	O4'-C1'-N1	7.79	114.44	108.20
1	N	175	C	C4-C5-C6	7.79	121.30	117.40
1	N	1031	C	N1-C2-O2	7.79	123.58	118.90
1	N	299	G	N9-C4-C5	7.79	108.52	105.40
1	N	331	G	C5-C6-N1	-7.79	107.61	111.50
1	N	499	A	C5-C6-N1	-7.79	113.81	117.70
1	N	1024	G	N7-C8-N9	7.79	116.99	113.10
1	N	215	C	P-O3'-C3'	-7.79	110.36	119.70
1	N	795	C	P-O5'-C5'	7.79	133.36	120.90
1	N	182	A	O4'-C1'-N9	7.79	114.43	108.20
1	N	471	U	O4'-C1'-N1	7.78	114.43	108.20
1	N	1084	G	O4'-C1'-N9	7.78	114.43	108.20
1	N	1164	G	C6-C5-N7	-7.78	125.73	130.40
1	N	512	U	C5-C6-N1	7.78	126.59	122.70
1	N	935	A	C2-N3-C4	-7.78	106.71	110.60
1	N	775	G	C4'-C3'-C2'	-7.78	94.82	102.60
1	N	1051	C	C4-C5-C6	7.78	121.29	117.40
1	N	1369	C	N3-C4-N4	7.78	123.45	118.00
1	N	52	C	N3-C4-C5	-7.78	118.79	121.90
1	N	1274	A	C2-N3-C4	7.78	114.49	110.60
1	N	134	G	N1-C6-O6	7.78	124.57	119.90
1	N	930	C	N3-C4-N4	7.78	123.44	118.00
1	N	844	G	C8-N9-C4	-7.78	103.29	106.40
1	N	1077	G	C5-N7-C8	7.78	108.19	104.30
1	N	1152	A	C1'-O4'-C4'	7.78	116.12	109.90
1	N	147	G	N1-C6-O6	7.77	124.56	119.90
1	N	596	A	C5-C6-N6	-7.77	117.48	123.70
1	N	103	U	N3-C4-C5	-7.77	109.94	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	414	A	N1-C6-N6	7.77	123.26	118.60
1	N	696	A	C8-N9-C4	-7.77	102.69	105.80
1	N	523	A	P-O5'-C5'	7.77	133.33	120.90
1	N	1214	C	P-O3'-C3'	-7.77	110.38	119.70
1	N	190	A	C6-N1-C2	7.77	123.26	118.60
1	N	661	G	C8-N9-C4	-7.77	103.29	106.40
1	N	286	C	O4'-C1'-N1	7.76	114.41	108.20
1	N	446	G	N3-C2-N2	7.76	125.34	119.90
1	N	522	C	P-O5'-C5'	7.76	133.32	120.90
1	N	1141	C	N1-C2-N3	-7.76	113.77	119.20
1	N	1292	G	N1-C2-N2	7.76	123.19	116.20
1	N	1326	U	N3-C2-O2	7.76	127.63	122.20
1	N	1306	A	C4-C5-C6	7.76	120.88	117.00
1	N	324	G	C6-C5-N7	-7.76	125.75	130.40
1	N	180	U	N1-C2-N3	-7.76	110.25	114.90
1	N	672	U	C5-C4-O4	-7.76	121.25	125.90
1	N	1349	A	C6-N1-C2	7.76	123.25	118.60
1	N	1483	A	C4-C5-N7	-7.76	106.82	110.70
1	N	60	A	C4-C5-C6	7.75	120.88	117.00
1	N	725	G	O4'-C1'-N9	7.75	114.40	108.20
1	N	1303	C	O4'-C1'-N1	7.75	114.40	108.20
1	N	122	G	P-O3'-C3'	-7.75	110.40	119.70
1	N	233	C	C4-C5-C6	-7.75	113.52	117.40
1	N	1046	A	P-O5'-C5'	-7.75	108.49	120.90
1	N	1447	A	C6-N1-C2	-7.75	113.95	118.60
1	N	618	C	C4-C5-C6	7.75	121.28	117.40
1	N	1071	C	C2-N1-C1'	7.75	127.33	118.80
1	N	398	U	N1-C2-N3	-7.75	110.25	114.90
1	N	42	G	N1-C2-N3	-7.75	119.25	123.90
1	N	162	A	C5-C6-N1	-7.75	113.83	117.70
1	N	192	A	C6-C5-N7	-7.75	126.88	132.30
1	N	207	C	C2-N1-C1'	7.75	127.32	118.80
1	N	397	A	C6-N1-C2	7.75	123.25	118.60
1	N	1184	G	C4-C5-N7	7.75	113.90	110.80
1	N	66	A	O4'-C1'-N9	7.75	114.40	108.20
1	N	33	A	C1'-O4'-C4'	7.74	116.09	109.90
1	N	623	C	P-O5'-C5'	7.74	133.29	120.90
1	N	140	U	C5-C4-O4	-7.74	121.25	125.90
1	N	239	U	O4'-C1'-N1	7.74	114.39	108.20
1	N	276	G	N7-C8-N9	7.74	116.97	113.10
1	N	442	G	N7-C8-N9	-7.74	109.23	113.10
1	N	1055	A	C5-N7-C8	7.74	107.77	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1462	C	C2-N3-C4	7.74	123.77	119.90
1	N	366	A	C5-N7-C8	7.74	107.77	103.90
1	N	521	G	C2-N3-C4	-7.74	108.03	111.90
1	N	197	A	C8-N9-C4	-7.73	102.71	105.80
1	N	61	G	N3-C4-C5	-7.73	124.73	128.60
1	N	543	U	C3'-C2'-C1'	7.73	107.69	101.50
1	N	1318	A	C2-N3-C4	-7.73	106.73	110.60
1	N	210	C	C6-N1-C2	7.72	123.39	120.30
1	N	232	G	C5-C6-N1	-7.72	107.64	111.50
1	N	1260	G	N1-C2-N3	-7.72	119.27	123.90
1	N	23	C	O4'-C1'-N1	7.72	114.38	108.20
1	N	1058	G	C5-C6-N1	-7.72	107.64	111.50
1	N	1282	C	N3-C4-N4	7.72	123.41	118.00
1	N	211	G	P-O3'-C3'	7.72	128.96	119.70
1	N	1181	G	C5'-C4'-C3'	-7.72	103.65	116.00
1	N	1199	U	N1-C2-N3	7.72	119.53	114.90
1	N	1174	G	C5-N7-C8	7.72	108.16	104.30
1	N	1187	G	O4'-C1'-N9	7.72	114.37	108.20
1	N	728	A	C5-C6-N1	-7.71	113.84	117.70
1	N	1032	G	P-O5'-C5'	7.71	133.24	120.90
1	N	1041	G	N3-C2-N2	7.71	125.30	119.90
1	N	1227	A	C5-C6-N6	-7.71	117.53	123.70
1	N	898	G	C4-C5-N7	-7.71	107.72	110.80
1	N	135	C	O4'-C1'-N1	7.71	114.37	108.20
1	N	669	G	C5-C6-O6	-7.71	123.97	128.60
1	N	1266	G	O4'-C1'-N9	7.71	114.37	108.20
1	N	1285	A	C8-N9-C4	-7.71	102.72	105.80
1	N	878	A	C4-C5-C6	7.71	120.86	117.00
1	N	1167	A	O4'-C1'-N9	7.71	114.37	108.20
1	N	175	C	C2-N1-C1'	7.71	127.28	118.80
1	N	281	G	N9-C4-C5	-7.71	102.32	105.40
1	N	1196	A	O4'-C1'-N9	7.71	114.36	108.20
1	N	629	A	C8-N9-C4	-7.71	102.72	105.80
1	N	916	U	C6-N1-C2	-7.71	116.38	121.00
1	N	1479	C	O4'-C1'-N1	7.70	114.36	108.20
1	N	1486	G	N1-C6-O6	7.70	124.52	119.90
1	N	1210	C	O4'-C1'-N1	7.70	114.36	108.20
1	N	6	G	N9-C4-C5	-7.70	102.32	105.40
1	N	92	U	C2-N3-C4	-7.70	122.38	127.00
1	N	459	A	C4-C5-N7	-7.70	106.85	110.70
1	N	812	G	N3-C4-C5	-7.70	124.75	128.60
1	N	843	U	C2-N1-C1'	7.70	126.94	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1047	G	C5-C6-O6	-7.70	123.98	128.60
1	N	97	G	C2-N3-C4	7.69	115.75	111.90
1	N	146	G	P-O3'-C3'	-7.69	110.47	119.70
1	N	727	G	N9-C4-C5	-7.69	102.32	105.40
1	N	1326	U	C2-N1-C1'	7.69	126.93	117.70
1	N	830	G	C5-N7-C8	-7.69	100.46	104.30
1	N	581	G	C8-N9-C4	-7.69	103.33	106.40
1	N	243	A	C5-C6-N1	-7.68	113.86	117.70
1	N	1403	C	C4-C5-C6	-7.68	113.56	117.40
1	N	1420	U	O4'-C1'-N1	7.68	114.35	108.20
1	N	436	C	C5-C4-N4	-7.68	114.82	120.20
1	N	585	G	N1-C6-O6	7.68	124.51	119.90
1	N	806	C	O4'-C1'-N1	7.68	114.34	108.20
1	N	1063	C	C5-C4-N4	-7.68	114.82	120.20
1	N	1099	G	C4-N9-C1'	-7.68	116.51	126.50
1	N	1463	U	N3-C4-C5	-7.68	109.99	114.60
1	N	719	C	P-O3'-C3'	7.68	128.91	119.70
1	N	83	C	N3-C4-N4	7.68	123.37	118.00
1	N	154	U	C5-C4-O4	-7.68	121.29	125.90
1	N	362	G	C8-N9-C4	-7.68	103.33	106.40
1	N	479	U	N3-C4-C5	-7.68	109.99	114.60
1	N	1139	G	N1-C2-N3	-7.68	119.29	123.90
1	N	1355	G	C2-N3-C4	-7.68	108.06	111.90
1	N	7	A	N1-C6-N6	7.67	123.20	118.60
1	N	755	G	C5-C6-O6	-7.67	124.00	128.60
1	N	768	A	C8-N9-C4	-7.67	102.73	105.80
1	N	800	G	N3-C2-N2	7.67	125.27	119.90
1	N	1299	A	C5-C6-N1	-7.67	113.86	117.70
1	N	1410	A	C5-C6-N6	-7.67	117.56	123.70
1	N	241	G	C4-C5-N7	-7.67	107.73	110.80
1	N	319	G	N3-C2-N2	7.67	125.27	119.90
1	N	805	C	O5'-C5'-C4'	-7.67	97.13	111.70
1	N	452	A	C5-N7-C8	7.67	107.73	103.90
1	N	193	C	C5'-C4'-C3'	-7.67	103.73	116.00
1	N	1102	A	C2-N3-C4	-7.67	106.77	110.60
1	N	357	G	P-O3'-C3'	-7.66	110.50	119.70
1	N	2	A	N1-C6-N6	7.66	123.20	118.60
1	N	644	U	C5-C4-O4	-7.66	121.30	125.90
1	N	814	A	C4'-C3'-C2'	-7.66	94.94	102.60
1	N	1502	A	C8-N9-C4	-7.66	102.74	105.80
1	N	120	A	P-O3'-C3'	7.66	128.89	119.70
1	N	220	G	N3-C2-N2	7.66	125.26	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	241	G	N7-C8-N9	-7.66	109.27	113.10
1	N	345	C	P-O3'-C3'	7.66	128.89	119.70
1	N	1180	A	C5-C6-N6	-7.66	117.57	123.70
1	N	1447	A	C2-N3-C4	-7.66	106.77	110.60
1	N	276	G	O4'-C1'-N9	7.66	114.33	108.20
1	N	324	G	N1-C2-N2	-7.66	109.31	116.20
1	N	1338	G	N7-C8-N9	-7.66	109.27	113.10
1	N	163	C	P-O3'-C3'	7.65	128.88	119.70
1	N	298	A	N1-C6-N6	7.65	123.19	118.60
1	N	403	C	C2-N3-C4	7.65	123.73	119.90
1	N	778	G	C4-C5-C6	7.65	123.39	118.80
1	N	181	A	C5-C6-N6	-7.65	117.58	123.70
1	N	600	A	C2-N3-C4	-7.65	106.78	110.60
1	N	777	A	C5'-C4'-O4'	7.65	118.28	109.10
1	N	1216	A	C5'-C4'-C3'	7.65	128.24	116.00
1	N	1290	G	P-O3'-C3'	-7.65	110.52	119.70
1	N	1333	A	N3-C4-C5	-7.65	121.44	126.80
1	N	1329	A	N1-C2-N3	-7.65	125.47	129.30
1	N	1126	U	C5-C4-O4	-7.65	121.31	125.90
1	N	1221	G	C2-N3-C4	-7.65	108.08	111.90
1	N	550	G	C4-C5-C6	7.65	123.39	118.80
1	N	304	U	O4'-C1'-N1	7.64	114.31	108.20
1	N	490	C	N3-C4-C5	-7.64	118.84	121.90
1	N	867	G	C6-C5-N7	-7.64	125.81	130.40
1	N	947	G	C5-N7-C8	7.64	108.12	104.30
1	N	1449	C	C2-N3-C4	7.64	123.72	119.90
1	N	726	C	N3-C4-N4	7.64	123.35	118.00
1	N	1469	C	O4'-C1'-N1	7.64	114.31	108.20
1	N	220	G	C2-N3-C4	7.64	115.72	111.90
1	N	1461	G	N7-C8-N9	7.64	116.92	113.10
1	N	176	C	P-O5'-C5'	7.64	133.12	120.90
1	N	1005	A	C5-N7-C8	7.64	107.72	103.90
1	N	1344	C	N3-C4-N4	7.64	123.34	118.00
1	N	140	U	C2-N3-C4	-7.63	122.42	127.00
1	N	1052	U	N1-C2-O2	7.63	128.14	122.80
1	N	250	A	C8-N9-C4	-7.63	102.75	105.80
1	N	312	C	C5-C4-N4	-7.63	114.86	120.20
1	N	496	A	P-O5'-C5'	7.63	133.11	120.90
1	N	691	G	N1-C2-N3	-7.63	119.32	123.90
1	N	1524	C	C5-C4-N4	-7.63	114.86	120.20
1	N	1529	G	C2-N3-C4	7.63	115.72	111.90
1	N	151	A	N3-C4-N9	7.63	133.50	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	631	C	C2-N3-C4	7.63	123.72	119.90
1	N	1392	G	O4'-C1'-N9	7.63	114.30	108.20
1	N	388	G	C5-C6-O6	-7.63	124.02	128.60
1	N	1138	G	N1-C6-O6	7.63	124.48	119.90
1	N	1138	G	N3-C2-N2	7.63	125.24	119.90
1	N	44	A	C2-N3-C4	-7.63	106.79	110.60
1	N	356	A	C1'-O4'-C4'	-7.63	103.80	109.90
1	N	1181	G	N9-C4-C5	-7.63	102.35	105.40
1	N	1414	U	N1-C2-N3	-7.63	110.33	114.90
1	N	1236	A	C6-N1-C2	7.62	123.17	118.60
1	N	242	G	C6-C5-N7	-7.62	125.83	130.40
1	N	270	A	C6-N1-C2	7.62	123.17	118.60
1	N	797	C	C4-C5-C6	7.62	121.21	117.40
1	N	371	A	N9-C4-C5	7.62	108.85	105.80
1	N	1092	A	O4'-C4'-C3'	-7.62	96.38	104.00
1	N	108	G	C3'-C2'-C1'	7.62	107.59	101.50
1	N	413	G	C8-N9-C4	-7.62	103.35	106.40
1	N	1176	A	C4-C5-C6	7.62	120.81	117.00
1	N	1328	C	N3-C4-C5	-7.62	118.85	121.90
1	N	1103	C	C5-C6-N1	7.62	124.81	121.00
1	N	52	C	O4'-C1'-N1	7.61	114.29	108.20
1	N	173	U	P-O5'-C5'	-7.61	108.72	120.90
1	N	350	G	C5'-C4'-O4'	7.61	118.24	109.10
1	N	945	G	C5-C6-O6	-7.61	124.03	128.60
1	N	1098	C	C6-N1-C2	-7.61	117.25	120.30
1	N	570	G	N3-C4-N9	7.61	130.57	126.00
1	N	899	C	C6-N1-C2	-7.61	117.26	120.30
1	N	815	A	O4'-C1'-N9	7.61	114.28	108.20
1	N	507	C	O4'-C1'-N1	7.60	114.28	108.20
1	N	892	A	C4-C5-C6	7.60	120.80	117.00
1	N	634	C	OP1-P-OP2	-7.60	108.20	119.60
1	N	871	U	C6-N1-C2	-7.60	116.44	121.00
1	N	1403	C	C6-N1-C2	-7.60	117.26	120.30
1	N	22	G	N7-C8-N9	-7.60	109.30	113.10
1	N	384	G	C2-N3-C4	7.60	115.70	111.90
1	N	1166	G	C4'-C3'-C2'	7.60	110.20	102.60
1	N	174	A	C8-N9-C4	-7.59	102.76	105.80
1	N	1441	A	C5-N7-C8	7.59	107.70	103.90
1	N	577	G	C6-C5-N7	-7.59	125.84	130.40
1	N	662	U	N3-C4-C5	-7.59	110.04	114.60
1	N	1033	G	N1-C2-N2	7.59	123.03	116.20
1	N	199	A	P-O5'-C5'	7.59	133.05	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	608	A	C5-C6-N6	-7.59	117.63	123.70
1	N	728	A	C2-N3-C4	7.59	114.40	110.60
1	N	1039	G	N3-C2-N2	7.59	125.21	119.90
1	N	622	A	C5-C6-N6	7.59	129.77	123.70
1	N	1089	G	C8-N9-C4	-7.59	103.36	106.40
1	N	1405	G	O4'-C1'-N9	7.59	114.27	108.20
1	N	1098	C	N3-C4-N4	7.59	123.31	118.00
1	N	149	A	C6-C5-N7	-7.58	126.99	132.30
1	N	42	G	C4-C5-N7	7.58	113.83	110.80
1	N	248	C	C2-N1-C1'	7.58	127.14	118.80
1	N	502	A	N1-C6-N6	7.58	123.15	118.60
1	N	704	A	N1-C2-N3	7.58	133.09	129.30
1	N	1243	C	O4'-C1'-N1	7.58	114.27	108.20
1	N	73	C	P-O5'-C5'	-7.58	108.77	120.90
1	N	353	A	N9-C4-C5	7.58	108.83	105.80
1	N	1154	G	C4-C5-N7	7.58	113.83	110.80
1	N	463	U	N3-C4-C5	7.58	119.15	114.60
1	N	521	G	C5-C6-O6	-7.58	124.05	128.60
1	N	1216	A	C4-C5-C6	7.58	120.79	117.00
1	N	42	G	C5-C6-N1	-7.58	107.71	111.50
1	N	1037	C	N1-C2-N3	-7.58	113.90	119.20
1	N	1307	U	O4'-C1'-N1	7.58	114.26	108.20
1	N	57	G	N3-C4-C5	7.57	132.39	128.60
1	N	371	A	N1-C2-N3	7.57	133.09	129.30
1	N	794	A	C4-C5-N7	-7.57	106.92	110.70
1	N	1147	C	C6-N1-C2	-7.57	117.27	120.30
1	N	1494	G	C5-C6-N1	-7.57	107.72	111.50
1	N	251	G	C4'-C3'-C2'	-7.57	95.03	102.60
1	N	1041	G	P-O3'-C3'	-7.57	110.62	119.70
1	N	277	C	O4'-C1'-N1	7.57	114.25	108.20
1	N	524	G	N1-C6-O6	7.57	124.44	119.90
1	N	1300	G	N1-C6-O6	7.57	124.44	119.90
1	N	26	A	C5-N7-C8	7.56	107.68	103.90
1	N	1446	A	P-O3'-C3'	7.56	128.78	119.70
1	N	43	C	C5-C4-N4	7.56	125.49	120.20
1	N	889	A	O4'-C1'-N9	7.56	114.25	108.20
1	N	1353	G	N9-C4-C5	-7.56	102.38	105.40
1	N	708	C	O4'-C1'-N1	7.56	114.25	108.20
1	N	282	A	C2-N3-C4	-7.56	106.82	110.60
1	N	1297	G	N1-C2-N2	-7.56	109.40	116.20
1	N	740	U	P-O3'-C3'	-7.56	110.63	119.70
1	N	778	G	C4'-C3'-C2'	-7.55	95.05	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1340	A	C5-C6-N6	-7.55	117.66	123.70
1	N	1427	C	C5-C6-N1	7.55	124.78	121.00
1	N	113	G	N1-C2-N3	-7.55	119.37	123.90
1	N	705	G	C4-C5-N7	-7.55	107.78	110.80
1	N	1261	A	C5'-C4'-O4'	7.55	118.16	109.10
1	N	472	U	C5-C4-O4	-7.55	121.37	125.90
1	N	562	U	C5-C4-O4	-7.55	121.37	125.90
1	N	767	A	C5-C6-N1	-7.55	113.92	117.70
1	N	1294	G	N3-C2-N2	7.55	125.18	119.90
1	N	1328	C	C2-N3-C4	7.55	123.67	119.90
1	N	26	A	C5-C6-N6	-7.55	117.66	123.70
1	N	1327	C	C6-N1-C2	-7.55	117.28	120.30
1	N	319	G	C6-C5-N7	-7.55	125.87	130.40
1	N	1187	G	C5-C6-O6	-7.55	124.07	128.60
1	N	1333	A	N1-C2-N3	-7.55	125.53	129.30
1	N	77	A	N1-C2-N3	-7.54	125.53	129.30
1	N	492	C	N3-C2-O2	7.54	127.18	121.90
1	N	1181	G	N1-C2-N3	-7.54	119.37	123.90
1	N	361	G	C5-N7-C8	-7.54	100.53	104.30
1	N	1176	A	C5-C6-N1	-7.54	113.93	117.70
1	N	541	G	N1-C6-O6	7.54	124.42	119.90
1	N	942	G	C4-C5-C6	7.54	123.33	118.80
1	N	1105	A	N9-C4-C5	7.54	108.82	105.80
1	N	1343	G	C6-C5-N7	-7.54	125.88	130.40
1	N	1340	A	C2-N3-C4	-7.54	106.83	110.60
1	N	1432	G	C2'-C3'-O3'	7.54	126.09	109.50
1	N	477	C	C5-C4-N4	7.54	125.48	120.20
1	N	357	G	C4-C5-N7	7.54	113.81	110.80
1	N	960	U	O4'-C1'-N1	7.54	114.23	108.20
1	N	301	G	C4-N9-C1'	7.53	136.29	126.50
1	N	379	C	N3-C4-N4	7.53	123.27	118.00
1	N	579	A	N7-C8-N9	-7.53	110.03	113.80
1	N	1503	A	C5-C6-N6	-7.53	117.67	123.70
1	N	193	C	P-O5'-C5'	7.53	132.95	120.90
1	N	341	C	C6-N1-C2	-7.53	117.29	120.30
1	N	1228	C	P-O3'-C3'	7.53	128.74	119.70
1	N	97	G	N3-C4-N9	7.53	130.52	126.00
1	N	1240	U	O4'-C4'-C3'	-7.53	96.47	104.00
1	N	1275	A	N1-C2-N3	7.53	133.06	129.30
1	N	525	C	N3-C4-N4	7.53	123.27	118.00
1	N	740	U	C4'-C3'-C2'	-7.53	95.07	102.60
1	N	752	G	N1-C6-O6	-7.53	115.38	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	988	G	O4'-C1'-N9	7.53	114.22	108.20
1	N	1098	C	N1-C2-N3	-7.53	113.93	119.20
1	N	1359	C	P-O3'-C3'	7.53	128.73	119.70
1	N	814	A	C6-C5-N7	-7.53	127.03	132.30
1	N	859	G	C4-C5-N7	7.52	113.81	110.80
1	N	18	C	N3-C2-O2	7.52	127.17	121.90
1	N	75	G	C6-C5-N7	-7.52	125.89	130.40
1	N	534	U	C1'-O4'-C4'	-7.52	103.88	109.90
1	N	727	G	C2-N3-C4	-7.52	108.14	111.90
1	N	799	G	N1-C6-O6	7.52	124.41	119.90
1	N	1523	G	N7-C8-N9	-7.52	109.34	113.10
1	N	399	G	N1-C2-N3	-7.52	119.39	123.90
1	N	911	U	N1-C2-O2	-7.52	117.54	122.80
1	N	1258	G	C5-N7-C8	-7.52	100.54	104.30
1	N	1526	G	C6-C5-N7	-7.52	125.89	130.40
1	N	15	G	C1'-O4'-C4'	7.52	115.91	109.90
1	N	320	A	N1-C6-N6	7.51	123.11	118.60
1	N	559	A	C8-N9-C4	-7.51	102.80	105.80
1	N	1385	G	C5-C6-N1	-7.51	107.74	111.50
1	N	458	U	C5-C6-N1	7.51	126.45	122.70
1	N	238	A	C6-C5-N7	-7.51	127.04	132.30
1	N	333	U	N3-C4-O4	7.51	124.66	119.40
1	N	526	C	C6-N1-C2	-7.51	117.30	120.30
1	N	598	U	N3-C2-O2	-7.51	116.94	122.20
1	N	398	U	O4'-C1'-N1	7.50	114.20	108.20
1	N	1141	C	C5-C4-N4	-7.50	114.95	120.20
1	N	1155	A	C6-C5-N7	-7.50	127.05	132.30
1	N	346	G	N1-C2-N3	-7.50	119.40	123.90
1	N	1004	A	C5-N7-C8	-7.50	100.15	103.90
1	N	1142	G	N1-C2-N3	-7.50	119.40	123.90
1	N	460	A	C5-C6-N6	-7.50	117.70	123.70
1	N	357	G	C6-N1-C2	7.50	129.60	125.10
1	N	1140	C	N3-C4-C5	-7.50	118.90	121.90
1	N	1520	C	C5-C6-N1	7.50	124.75	121.00
1	N	639	G	C5-C6-O6	-7.50	124.10	128.60
1	N	1231	G	N1-C2-N3	-7.50	119.40	123.90
1	N	623	C	O4'-C1'-N1	7.50	114.20	108.20
1	N	580	C	C5-C4-N4	-7.49	114.95	120.20
1	N	628	G	C4-C5-N7	-7.49	107.80	110.80
1	N	666	G	N3-C2-N2	7.49	125.15	119.90
1	N	919	A	C1'-O4'-C4'	-7.49	103.91	109.90
1	N	10	A	O4'-C1'-N9	7.49	114.19	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1055	A	O4'-C1'-N9	7.49	114.19	108.20
1	N	225	C	O4'-C1'-N1	7.49	114.19	108.20
1	N	455	G	N3-C4-C5	7.49	132.34	128.60
1	N	200	G	N7-C8-N9	7.48	116.84	113.10
1	N	206	C	C2-N3-C4	7.48	123.64	119.90
1	N	245	U	O4'-C1'-N1	7.48	114.19	108.20
1	N	777	A	C4-C5-N7	-7.48	106.96	110.70
1	N	962	C	C6-N1-C2	-7.48	117.31	120.30
1	N	1440	U	O4'-C1'-N1	7.48	114.19	108.20
1	N	733	G	C5-C6-O6	7.48	133.09	128.60
1	N	335	C	C5-C6-N1	7.48	124.74	121.00
1	N	655	A	O4'-C1'-N9	7.48	114.18	108.20
1	N	860	A	C6-C5-N7	-7.48	127.07	132.30
1	N	453	G	C4-C5-C6	7.48	123.29	118.80
1	N	859	G	N1-C2-N3	-7.48	119.41	123.90
1	N	1214	C	N3-C4-N4	7.48	123.23	118.00
1	N	38	G	O4'-C1'-N9	7.47	114.18	108.20
1	N	963	G	O4'-C1'-N9	7.47	114.18	108.20
1	N	1292	G	C6-C5-N7	-7.47	125.92	130.40
1	N	108	G	C4-C5-C6	7.47	123.28	118.80
1	N	172	A	C6-C5-N7	-7.47	127.07	132.30
1	N	283	U	N1-C2-O2	7.47	128.03	122.80
1	N	585	G	C5-C6-N1	-7.47	107.77	111.50
1	N	741	G	C5-C6-O6	-7.47	124.12	128.60
1	N	829	G	C6-N1-C2	7.47	129.58	125.10
1	N	1315	U	P-O5'-C5'	7.47	132.84	120.90
1	N	259	G	C6-N1-C2	7.46	129.58	125.10
1	N	792	A	C5-N7-C8	7.46	107.63	103.90
1	N	143	A	O4'-C1'-N9	7.46	114.17	108.20
1	N	931	C	C4'-C3'-C2'	-7.46	95.14	102.60
1	N	1174	G	C8-N9-C4	7.46	109.38	106.40
1	N	1336	C	C5'-C4'-O4'	7.46	118.05	109.10
1	N	431	A	C5-C6-N6	-7.46	117.73	123.70
1	N	1216	A	O4'-C1'-N9	7.46	114.17	108.20
1	N	1249	C	C3'-C2'-C1'	7.46	107.47	101.50
1	N	68	G	C5-C6-N1	-7.46	107.77	111.50
1	N	917	G	N1-C6-O6	7.46	124.37	119.90
1	N	1270	G	C5-C6-O6	-7.46	124.13	128.60
1	N	6	G	C5-N7-C8	-7.45	100.57	104.30
1	N	355	C	O5'-P-OP2	7.45	119.64	110.70
1	N	520	A	O4'-C1'-N9	7.45	114.16	108.20
1	N	311	C	N3-C4-N4	7.45	123.22	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	211	G	C5-C6-O6	-7.45	124.13	128.60
1	N	448	A	C5-C6-N1	-7.45	113.97	117.70
1	N	1201	A	C2-N3-C4	-7.45	106.88	110.60
1	N	792	A	C4-C5-N7	-7.45	106.98	110.70
1	N	1102	A	O4'-C1'-N9	7.45	114.16	108.20
1	N	1319	A	C5-C6-N1	-7.45	113.98	117.70
1	N	190	A	C4-C5-C6	7.45	120.72	117.00
1	N	1019	A	O4'-C1'-N9	7.45	114.16	108.20
1	N	1254	A	C5-C6-N6	-7.45	117.74	123.70
1	N	772	U	N3-C2-O2	7.45	127.41	122.20
1	N	1079	G	N1-C6-O6	7.45	124.37	119.90
1	N	1091	U	C6-N1-C2	-7.45	116.53	121.00
1	N	380	G	P-O3'-C3'	7.44	128.63	119.70
1	N	594	U	C5'-C4'-C3'	-7.44	104.09	116.00
1	N	855	U	O4'-C1'-N1	7.44	114.15	108.20
1	N	1100	C	N3-C4-N4	7.44	123.21	118.00
1	N	1513	A	C6-N1-C2	7.44	123.06	118.60
1	N	264	C	C6-N1-C2	-7.44	117.32	120.30
1	N	1405	G	P-O3'-C3'	-7.44	110.77	119.70
1	N	547	A	N1-C6-N6	7.44	123.06	118.60
1	N	1064	G	C5-C6-O6	-7.44	124.14	128.60
1	N	474	G	N9-C4-C5	7.44	108.37	105.40
1	N	377	G	C1'-O4'-C4'	7.43	115.85	109.90
1	N	814	A	C2-N3-C4	-7.43	106.88	110.60
1	N	1181	G	O4'-C1'-N9	7.43	114.15	108.20
1	N	1332	A	C6-N1-C2	-7.43	114.14	118.60
1	N	522	C	C2-N3-C4	7.43	123.61	119.90
1	N	554	A	C4-C5-N7	7.43	114.41	110.70
1	N	924	C	P-O5'-C5'	7.43	132.79	120.90
1	N	993	G	N3-C2-N2	7.43	125.10	119.90
1	N	1082	A	C8-N9-C4	-7.43	102.83	105.80
1	N	1097	C	O4'-C4'-C3'	-7.43	96.57	104.00
1	N	1275	A	C2-N3-C4	-7.43	106.89	110.60
1	N	146	G	C4-C5-C6	7.43	123.26	118.80
1	N	596	A	C8-N9-C4	-7.43	102.83	105.80
1	N	601	G	C5-C6-O6	-7.43	124.14	128.60
1	N	1188	A	N3-C4-N9	7.43	133.34	127.40
1	N	1379	G	O4'-C1'-N9	7.43	114.14	108.20
1	N	1318	A	C5-N7-C8	7.42	107.61	103.90
1	N	666	G	O4'-C1'-N9	7.42	114.14	108.20
1	N	884	U	C5-C6-N1	-7.42	118.99	122.70
1	N	1034	G	N1-C2-N3	-7.42	119.45	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1459	G	N3-C2-N2	7.42	125.09	119.90
1	N	752	G	C4-C5-N7	7.42	113.77	110.80
1	N	912	C	C2-N1-C1'	7.42	126.96	118.80
1	N	966	G	C2-N3-C4	7.42	115.61	111.90
1	N	1259	C	C2-N3-C4	7.42	123.61	119.90
1	N	801	U	C5'-C4'-C3'	7.42	127.87	116.00
1	N	774	G	N9-C4-C5	-7.42	102.43	105.40
1	N	274	A	C6-N1-C2	7.41	123.05	118.60
1	N	1125	U	C5-C6-N1	7.41	126.41	122.70
1	N	1309	G	C5-N7-C8	-7.41	100.59	104.30
1	N	1356	G	P-O5'-C5'	7.41	132.76	120.90
1	N	213	G	C2-N3-C4	7.41	115.61	111.90
1	N	146	G	N3-C2-N2	7.41	125.09	119.90
1	N	178	C	P-O5'-C5'	7.41	132.75	120.90
1	N	1046	A	N3-C4-C5	-7.41	121.61	126.80
1	N	633	G	O4'-C4'-C3'	-7.41	96.59	104.00
1	N	588	G	C5-C6-O6	-7.41	124.16	128.60
1	N	897	C	C4-C5-C6	-7.41	113.70	117.40
1	N	102	G	C3'-C2'-C1'	-7.40	95.58	101.50
1	N	246	A	P-O3'-C3'	7.40	128.59	119.70
1	N	314	C	C5-C6-N1	7.40	124.70	121.00
1	N	811	C	C5-C4-N4	-7.40	115.02	120.20
1	N	1172	C	N3-C4-N4	7.40	123.18	118.00
1	N	141	G	C5-C6-O6	-7.40	124.16	128.60
1	N	232	G	O4'-C1'-N9	7.40	114.12	108.20
1	N	562	U	N1-C1'-C2'	-7.40	103.86	112.00
1	N	694	A	O4'-C1'-N9	7.40	114.12	108.20
1	N	1215	G	C8-N9-C4	-7.40	103.44	106.40
1	N	1218	C	C5-C4-N4	7.40	125.38	120.20
1	N	549	C	C6-N1-C1'	-7.40	111.92	120.80
1	N	1209	C	C2-N3-C4	7.40	123.60	119.90
1	N	35	G	C6-C5-N7	-7.39	125.97	130.40
1	N	554	A	N1-C6-N6	7.39	123.04	118.60
1	N	744	C	P-O5'-C5'	7.39	132.73	120.90
1	N	1220	G	C5-C6-O6	-7.39	124.17	128.60
1	N	1277	C	C5-C6-N1	7.39	124.70	121.00
1	N	1288	A	P-O5'-C5'	7.39	132.73	120.90
1	N	1386	G	C4-N9-C1'	-7.39	116.89	126.50
1	N	136	C	N3-C4-N4	7.39	123.17	118.00
1	N	444	G	N7-C8-N9	7.39	116.80	113.10
1	N	450	G	O4'-C1'-N9	7.39	114.11	108.20
1	N	272	C	C5-C4-N4	-7.39	115.03	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	322	C	C5'-C4'-O4'	7.39	117.97	109.10
1	N	76	G	N9-C4-C5	-7.39	102.45	105.40
1	N	630	A	C6-C5-N7	-7.39	127.13	132.30
1	N	1514	G	C4-N9-C1'	-7.39	116.90	126.50
1	N	39	G	N1-C2-N3	-7.38	119.47	123.90
1	N	748	G	N3-C4-N9	-7.38	121.57	126.00
1	N	780	A	N1-C6-N6	7.38	123.03	118.60
1	N	915	A	C8-N9-C4	7.38	108.75	105.80
1	N	1319	A	N1-C6-N6	7.38	123.03	118.60
1	N	1472	U	O4'-C1'-N1	7.38	114.11	108.20
1	N	154	U	C2-N3-C4	-7.38	122.57	127.00
1	N	567	G	C5-C6-O6	-7.38	124.17	128.60
1	N	637	C	O4'-C1'-N1	7.38	114.11	108.20
1	N	1252	A	C5-N7-C8	7.38	107.59	103.90
1	N	686	U	C5'-C4'-O4'	7.38	117.95	109.10
1	N	1120	C	C6-N1-C2	-7.38	117.35	120.30
1	N	711	G	C2-N3-C4	7.38	115.59	111.90
1	N	1034	G	C5-C6-O6	-7.38	124.17	128.60
1	N	816	A	C5-C6-N6	-7.38	117.80	123.70
1	N	892	A	C5-C6-N6	-7.38	117.80	123.70
1	N	514	C	C6-N1-C2	7.37	123.25	120.30
1	N	625	U	O4'-C1'-N1	7.37	114.10	108.20
1	N	331	G	N1-C2-N2	7.37	122.83	116.20
1	N	716	A	N1-C2-N3	7.37	132.99	129.30
1	N	608	A	C5-C6-N1	-7.37	114.02	117.70
1	N	1156	G	N1-C2-N3	-7.37	119.48	123.90
1	N	1081	A	C2-N3-C4	-7.37	106.92	110.60
1	N	35	G	C4-C5-N7	7.37	113.75	110.80
1	N	137	U	C5-C6-N1	7.37	126.38	122.70
1	N	1528	U	N3-C4-C5	-7.37	110.18	114.60
1	N	1039	G	C5-N7-C8	7.37	107.98	104.30
1	N	1227	A	O4'-C1'-N9	7.37	114.09	108.20
1	N	498	A	C6-N1-C2	-7.36	114.18	118.60
1	N	1010	U	C4-C5-C6	7.36	124.12	119.70
1	N	314	C	P-O5'-C5'	7.36	132.68	120.90
1	N	451	A	C1'-O4'-C4'	-7.36	104.01	109.90
1	N	505	G	C5'-C4'-O4'	7.36	117.93	109.10
1	N	310	G	C4-C5-N7	7.36	113.74	110.80
1	N	405	U	O4'-C1'-N1	7.36	114.09	108.20
1	N	780	A	C8-N9-C4	-7.36	102.86	105.80
1	N	915	A	N7-C8-N9	-7.36	110.12	113.80
1	N	264	C	O4'-C1'-N1	7.36	114.08	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1092	A	C4-C5-C6	7.36	120.68	117.00
1	N	9	G	N1-C2-N3	-7.35	119.49	123.90
1	N	1445	U	C2-N3-C4	-7.35	122.59	127.00
1	N	446	G	C1'-O4'-C4'	-7.35	104.02	109.90
1	N	1060	U	C4'-C3'-C2'	-7.35	95.25	102.60
1	N	1128	C	P-O3'-C3'	7.35	128.52	119.70
1	N	157	U	N3-C4-O4	7.35	124.54	119.40
1	N	295	C	P-O5'-C5'	7.35	132.66	120.90
1	N	301	G	C8-N9-C1'	-7.35	117.45	127.00
1	N	907	A	C4-C5-C6	7.35	120.67	117.00
1	N	1146	A	N3-C4-C5	-7.35	121.66	126.80
1	N	1227	A	N1-C2-N3	7.35	132.97	129.30
1	N	1014	A	C6-C5-N7	-7.35	127.16	132.30
1	N	1339	A	C4-C5-C6	7.35	120.67	117.00
1	N	1390	U	O4'-C1'-N1	7.35	114.08	108.20
1	N	82	G	N3-C2-N2	7.34	125.04	119.90
1	N	211	G	C2-N3-C4	-7.34	108.23	111.90
1	N	1174	G	N3-C2-N2	7.34	125.04	119.90
1	N	1475	G	C5-C6-O6	-7.34	124.19	128.60
1	N	487	A	C4-C5-C6	7.34	120.67	117.00
1	N	1077	G	N3-C4-N9	-7.34	121.59	126.00
1	N	1098	C	N1-C2-O2	7.34	123.31	118.90
1	N	68	G	O4'-C1'-N9	7.34	114.07	108.20
1	N	566	G	O4'-C1'-N9	7.34	114.07	108.20
1	N	683	G	C5-C6-N1	-7.34	107.83	111.50
1	N	728	A	N7-C8-N9	-7.34	110.13	113.80
1	N	1041	G	C5'-C4'-O4'	7.34	117.91	109.10
1	N	120	A	C5-N7-C8	7.34	107.57	103.90
1	N	302	G	N9-C4-C5	7.34	108.33	105.40
1	N	691	G	N7-C8-N9	7.34	116.77	113.10
1	N	849	G	C5-C6-O6	-7.34	124.20	128.60
1	N	1313	U	O4'-C1'-N1	7.34	114.07	108.20
1	N	216	U	C4-C5-C6	-7.33	115.30	119.70
1	N	704	A	C6-N1-C2	-7.33	114.20	118.60
1	N	1336	C	N1-C2-N3	-7.33	114.06	119.20
1	N	142	G	O4'-C1'-N9	7.33	114.07	108.20
1	N	869	G	N1-C2-N2	-7.33	109.60	116.20
1	N	981	U	O4'-C1'-N1	7.33	114.07	108.20
1	N	1392	G	C4-C5-C6	7.33	123.20	118.80
1	N	106	C	C4-C5-C6	7.33	121.07	117.40
1	N	174	A	C5-C6-N1	-7.33	114.03	117.70
1	N	430	A	N1-C2-N3	7.33	132.97	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	520	A	O4'-C4'-C3'	-7.33	96.67	104.00
1	N	753	A	N3-C4-C5	-7.33	121.67	126.80
1	N	728	A	C5-N7-C8	7.33	107.56	103.90
1	N	384	G	N3-C2-N2	7.33	125.03	119.90
1	N	454	G	N1-C2-N3	-7.33	119.50	123.90
1	N	465	A	P-O3'-C3'	7.33	128.49	119.70
1	N	974	A	P-O5'-C5'	7.33	132.62	120.90
1	N	1378	C	N3-C4-N4	7.33	123.13	118.00
1	N	1408	A	N3-C4-N9	7.33	133.26	127.40
1	N	1419	G	C6-C5-N7	-7.33	126.00	130.40
1	N	1157	A	N1-C2-N3	-7.33	125.64	129.30
1	N	423	G	C6-C5-N7	-7.33	126.00	130.40
1	N	1153	G	OP1-P-OP2	-7.33	108.61	119.60
1	N	1384	C	O4'-C1'-N1	7.33	114.06	108.20
1	N	61	G	C8-N9-C4	-7.32	103.47	106.40
1	N	367	U	C4-C5-C6	7.32	124.09	119.70
1	N	841	C	C4-C5-C6	7.32	121.06	117.40
1	N	916	U	C5-C4-O4	-7.32	121.51	125.90
1	N	1379	G	N1-C2-N2	7.32	122.79	116.20
1	N	1154	G	P-O5'-C5'	-7.32	109.19	120.90
1	N	141	G	N9-C4-C5	7.32	108.33	105.40
1	N	642	A	N1-C6-N6	7.32	122.99	118.60
1	N	842	U	C5-C6-N1	7.32	126.36	122.70
1	N	917	G	C8-N9-C4	-7.32	103.47	106.40
1	N	560	A	C2-N3-C4	7.32	114.26	110.60
1	N	1240	U	C5-C4-O4	7.32	130.29	125.90
1	N	666	G	C4-C5-C6	7.32	123.19	118.80
1	N	683	G	C4-C5-C6	7.32	123.19	118.80
1	N	1079	G	N9-C4-C5	7.32	108.33	105.40
1	N	1261	A	C5-N7-C8	7.32	107.56	103.90
1	N	1286	U	O4'-C1'-N1	7.32	114.05	108.20
1	N	433	G	C2-N3-C4	-7.31	108.24	111.90
1	N	1454	G	O4'-C1'-N9	7.31	114.05	108.20
1	N	275	G	C5-C6-N1	-7.31	107.84	111.50
1	N	736	C	N3-C4-C5	-7.31	118.98	121.90
1	N	1012	A	C8-N9-C4	7.31	108.72	105.80
1	N	596	A	C5-C6-N1	-7.31	114.05	117.70
1	N	220	G	N3-C4-C5	-7.31	124.95	128.60
1	N	261	U	C5-C6-N1	7.31	126.35	122.70
1	N	531	U	C5'-C4'-O4'	7.31	117.87	109.10
1	N	171	A	C5'-C4'-O4'	7.31	117.87	109.10
1	N	849	G	C2-N3-C4	-7.31	108.25	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	24	U	O4'-C1'-N1	7.30	114.04	108.20
1	N	506	G	C5-C6-O6	-7.30	124.22	128.60
1	N	1457	G	N7-C8-N9	7.30	116.75	113.10
1	N	898	G	C4-C5-C6	7.30	123.18	118.80
1	N	1510	C	O4'-C1'-N1	7.30	114.04	108.20
1	N	486	U	C5'-C4'-C3'	-7.30	104.32	116.00
1	N	664	G	C2-N3-C4	7.30	115.55	111.90
1	N	43	C	C4-C5-C6	7.29	121.05	117.40
1	N	362	G	N1-C2-N3	-7.29	119.52	123.90
1	N	794	A	C5-C6-N1	-7.29	114.05	117.70
1	N	1088	G	N9-C4-C5	-7.29	102.48	105.40
1	N	868	C	O4'-C1'-N1	7.29	114.03	108.20
1	N	1334	G	N7-C8-N9	7.29	116.75	113.10
1	N	1001	C	O4'-C1'-N1	7.29	114.03	108.20
1	N	1041	G	O4'-C1'-N9	7.29	114.03	108.20
1	N	1144	G	O4'-C1'-N9	7.29	114.03	108.20
1	N	1315	U	C6-N1-C2	-7.29	116.63	121.00
1	N	465	A	P-O5'-C5'	7.29	132.56	120.90
1	N	1161	C	C2-N3-C4	7.29	123.54	119.90
1	N	1482	G	C5-C6-N1	-7.29	107.86	111.50
1	N	61	G	OP1-P-OP2	-7.28	108.67	119.60
1	N	142	G	N1-C6-O6	7.28	124.27	119.90
1	N	246	A	C6-N1-C2	-7.28	114.23	118.60
1	N	317	U	N1-C2-N3	-7.28	110.53	114.90
1	N	1116	U	O4'-C1'-N1	7.28	114.03	108.20
1	N	434	U	O4'-C1'-N1	7.28	114.02	108.20
1	N	548	G	C5-C6-O6	-7.28	124.23	128.60
1	N	811	C	O4'-C1'-N1	7.28	114.02	108.20
1	N	1356	G	N3-C4-N9	7.28	130.37	126.00
1	N	105	G	C5-C6-N1	-7.28	107.86	111.50
1	N	373	A	P-O5'-C5'	-7.28	109.25	120.90
1	N	515	G	O4'-C1'-N9	7.28	114.02	108.20
1	N	801	U	C3'-C2'-C1'	7.28	107.32	101.50
1	N	1032	G	C6-C5-N7	-7.28	126.03	130.40
1	N	67	C	P-O3'-C3'	7.28	128.43	119.70
1	N	212	G	N3-C2-N2	-7.28	114.81	119.90
1	N	341	C	C4-C5-C6	-7.28	113.76	117.40
1	N	557	G	N1-C6-O6	7.28	124.27	119.90
1	N	835	U	C2-N3-C4	-7.28	122.63	127.00
1	N	968	A	C4-C5-N7	-7.28	107.06	110.70
1	N	744	C	N3-C4-C5	-7.28	118.99	121.90
1	N	1272	G	N1-C2-N3	-7.28	119.53	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	716	A	C4-C5-N7	-7.27	107.06	110.70
1	N	716	A	C5-N7-C8	7.27	107.54	103.90
1	N	743	A	C4-C5-C6	7.27	120.64	117.00
1	N	562	U	C2-N3-C4	-7.27	122.64	127.00
1	N	787	A	C5-C6-N6	-7.27	117.88	123.70
1	N	1204	A	C6-N1-C2	7.27	122.96	118.60
1	N	1243	C	N3-C4-C5	-7.27	118.99	121.90
1	N	1347	G	N3-C4-C5	-7.27	124.97	128.60
1	N	537	G	N1-C6-O6	7.27	124.26	119.90
1	N	1259	C	N3-C2-O2	7.27	126.99	121.90
1	N	1508	A	N1-C6-N6	7.27	122.96	118.60
1	N	1043	G	P-O3'-C3'	7.27	128.42	119.70
1	N	284	C	N3-C4-C5	-7.26	118.99	121.90
1	N	476	U	C6-N1-C2	-7.26	116.64	121.00
1	N	677	U	P-O5'-C5'	7.26	132.53	120.90
1	N	832	G	C6-N1-C2	-7.26	120.74	125.10
1	N	128	G	C6-C5-N7	-7.26	126.04	130.40
1	N	824	G	C4-C5-C6	7.26	123.16	118.80
1	N	198	G	C8-N9-C4	7.26	109.30	106.40
1	N	1355	G	O4'-C1'-N9	7.26	114.01	108.20
1	N	1362	A	O4'-C1'-N9	7.26	114.01	108.20
1	N	71	A	N3-C4-C5	-7.26	121.72	126.80
1	N	786	G	N3-C4-N9	-7.26	121.64	126.00
1	N	1289	A	N1-C2-N3	7.26	132.93	129.30
1	N	461	A	N1-C6-N6	7.26	122.95	118.60
1	N	1216	A	C8-N9-C4	-7.26	102.90	105.80
1	N	1417	G	C8-N9-C4	-7.26	103.50	106.40
1	N	529	G	N3-C2-N2	7.25	124.98	119.90
1	N	1037	C	N3-C2-O2	7.25	126.98	121.90
1	N	1042	A	N1-C2-N3	7.25	132.93	129.30
1	N	256	U	C4-C5-C6	7.25	124.05	119.70
1	N	292	G	N3-C2-N2	7.25	124.98	119.90
1	N	478	A	C5-C6-N1	-7.25	114.07	117.70
1	N	612	C	P-O3'-C3'	-7.25	111.00	119.70
1	N	648	A	C6-N1-C2	7.25	122.95	118.60
1	N	670	G	P-O5'-C5'	7.25	132.50	120.90
1	N	1399	C	C5-C4-N4	-7.25	115.12	120.20
1	N	111	G	N1-C6-O6	7.25	124.25	119.90
1	N	121	U	C6-N1-C2	-7.25	116.65	121.00
1	N	579	A	O4'-C1'-N9	7.25	114.00	108.20
1	N	969	A	N3-C4-C5	-7.25	121.72	126.80
1	N	1077	G	C4-C5-N7	-7.25	107.90	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1151	A	C2-N3-C4	-7.25	106.97	110.60
1	N	1378	C	C6-N1-C2	-7.25	117.40	120.30
1	N	1462	C	C4-C5-C6	-7.25	113.78	117.40
1	N	1279	G	C6-C5-N7	-7.25	126.05	130.40
1	N	1370	G	N1-C6-O6	7.25	124.25	119.90
1	N	1493	A	C4-C5-N7	-7.25	107.08	110.70
1	N	303	A	N9-C4-C5	7.25	108.70	105.80
1	N	446	G	C5-C6-O6	-7.25	124.25	128.60
1	N	470	C	C6-N1-C2	-7.25	117.40	120.30
1	N	511	C	N3-C2-O2	7.25	126.97	121.90
1	N	911	U	C5-C6-N1	7.25	126.32	122.70
1	N	926	G	C6-N1-C2	7.25	129.45	125.10
1	N	1163	A	N3-C4-N9	7.25	133.20	127.40
1	N	817	C	C6-N1-C2	-7.25	117.40	120.30
1	N	1292	G	P-O3'-C3'	-7.25	111.01	119.70
1	N	151	A	C5'-C4'-O4'	7.24	117.79	109.10
1	N	674	G	N1-C2-N3	-7.24	119.55	123.90
1	N	352	C	N3-C4-N4	7.24	123.07	118.00
1	N	944	G	C6-N1-C2	7.24	129.44	125.10
1	N	135	C	N3-C4-C5	-7.24	119.00	121.90
1	N	296	U	C6-N1-C2	-7.24	116.66	121.00
1	N	836	G	C6-C5-N7	-7.24	126.06	130.40
1	N	997	U	C6-N1-C2	7.24	125.34	121.00
1	N	328	C	C2-N3-C4	7.24	123.52	119.90
1	N	138	G	C8-N9-C4	-7.24	103.50	106.40
1	N	104	G	N3-C4-N9	7.24	130.34	126.00
1	N	299	G	C8-N9-C4	-7.24	103.51	106.40
1	N	434	U	N3-C4-C5	7.23	118.94	114.60
1	N	1517	G	N1-C2-N3	-7.23	119.56	123.90
1	N	23	C	C4-C5-C6	7.23	121.02	117.40
1	N	200	G	N9-C1'-C2'	-7.23	104.05	112.00
1	N	296	U	C3'-C2'-C1'	7.23	107.29	101.50
1	N	265	G	C4-N9-C1'	-7.23	117.10	126.50
1	N	522	C	N3-C2-O2	7.23	126.96	121.90
1	N	856	C	N3-C4-N4	7.23	123.06	118.00
1	N	1209	C	N1-C2-O2	7.23	123.24	118.90
1	N	1187	G	N1-C2-N3	-7.23	119.56	123.90
1	N	651	C	P-O5'-C5'	7.22	132.46	120.90
1	N	602	A	N1-C2-N3	7.22	132.91	129.30
1	N	846	G	C1'-O4'-C4'	7.22	115.68	109.90
1	N	897	C	O4'-C1'-N1	7.22	113.98	108.20
1	N	933	G	C5-C6-O6	-7.22	124.27	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1258	G	C4-C5-N7	7.22	113.69	110.80
1	N	242	G	N3-C2-N2	-7.22	114.85	119.90
1	N	928	G	N3-C2-N2	7.22	124.95	119.90
1	N	340	U	O4'-C1'-N1	7.22	113.97	108.20
1	N	900	A	C2-N3-C4	-7.22	106.99	110.60
1	N	1181	G	C2-N3-C4	-7.22	108.29	111.90
1	N	293	G	N7-C8-N9	7.21	116.71	113.10
1	N	572	A	C5-C6-N1	-7.21	114.09	117.70
1	N	626	G	N7-C8-N9	7.21	116.71	113.10
1	N	947	G	N3-C2-N2	7.21	124.95	119.90
1	N	215	C	C6-N1-C2	7.21	123.19	120.30
1	N	631	C	N3-C4-N4	7.21	123.05	118.00
1	N	1345	U	O4'-C1'-N1	7.21	113.97	108.20
1	N	811	C	C4-C5-C6	7.21	121.01	117.40
1	N	860	A	C4'-C3'-C2'	-7.21	95.39	102.60
1	N	1418	A	N1-C6-N6	7.21	122.93	118.60
1	N	766	A	P-O5'-C5'	7.21	132.44	120.90
1	N	957	U	O4'-C1'-N1	7.21	113.97	108.20
1	N	1025	U	C3'-C2'-C1'	7.21	107.27	101.50
1	N	1427	C	N3-C4-N4	7.21	123.05	118.00
1	N	1519	A	C4-C5-C6	7.21	120.60	117.00
1	N	1215	G	N3-C2-N2	7.21	124.94	119.90
1	N	1342	C	C4'-C3'-C2'	-7.21	95.39	102.60
1	N	1529	G	C5-C6-N1	-7.21	107.90	111.50
1	N	109	A	N1-C2-N3	7.21	132.90	129.30
1	N	812	G	N3-C4-N9	7.21	130.32	126.00
1	N	1280	A	C4'-C3'-C2'	7.21	109.81	102.60
1	N	114	U	P-O5'-C5'	7.20	132.43	120.90
1	N	337	G	O4'-C1'-N9	7.20	113.96	108.20
1	N	1145	A	O3'-P-O5'	-7.20	90.31	104.00
1	N	1523	G	C4-C5-C6	7.20	123.12	118.80
1	N	533	A	O4'-C1'-N9	7.20	113.96	108.20
1	N	107	G	C2-N3-C4	-7.20	108.30	111.90
1	N	227	G	N1-C2-N3	-7.20	119.58	123.90
1	N	280	C	N3-C4-C5	-7.20	119.02	121.90
1	N	658	C	N3-C4-C5	-7.20	119.02	121.90
1	N	733	G	N9-C4-C5	-7.20	102.52	105.40
1	N	924	C	N1-C2-O2	-7.20	114.58	118.90
1	N	208	U	P-O5'-C5'	-7.20	109.39	120.90
1	N	1364	U	C6-N1-C1'	-7.20	111.13	121.20
1	N	502	A	N9-C4-C5	-7.19	102.92	105.80
1	N	903	G	O4'-C1'-N9	7.19	113.95	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1121	U	C5-C4-O4	-7.19	121.58	125.90
1	N	15	G	N7-C8-N9	7.19	116.69	113.10
1	N	948	C	C5'-C4'-O4'	7.19	117.73	109.10
1	N	1119	C	P-O5'-C5'	-7.19	109.40	120.90
1	N	1302	C	N3-C4-N4	7.19	123.03	118.00
1	N	775	G	N9-C4-C5	7.19	108.28	105.40
1	N	1077	G	N9-C4-C5	7.19	108.28	105.40
1	N	54	C	O4'-C1'-C2'	-7.19	98.61	105.80
1	N	448	A	N7-C8-N9	-7.19	110.21	113.80
1	N	582	C	N3-C4-N4	7.19	123.03	118.00
1	N	1090	U	O4'-C1'-N1	7.19	113.95	108.20
1	N	154	U	N3-C4-C5	7.19	118.91	114.60
1	N	775	G	N3-C4-N9	-7.19	121.69	126.00
1	N	875	U	N3-C2-O2	7.19	127.23	122.20
1	N	1310	G	C5-C6-O6	-7.19	124.29	128.60
1	N	35	G	C5-N7-C8	-7.18	100.71	104.30
1	N	375	U	N1-C2-N3	-7.18	110.59	114.90
1	N	758	C	N1-C2-O2	7.18	123.21	118.90
1	N	1327	C	N3-C4-N4	7.18	123.03	118.00
1	N	99	C	C6-N1-C2	-7.18	117.43	120.30
1	N	821	G	N3-C4-N9	7.18	130.31	126.00
1	N	747	A	C4'-C3'-C2'	-7.18	95.42	102.60
1	N	783	C	O4'-C1'-N1	7.18	113.94	108.20
1	N	1026	G	C6-C5-N7	-7.18	126.09	130.40
1	N	75	G	N1-C2-N3	-7.18	119.59	123.90
1	N	1323	G	C8-N9-C4	7.18	109.27	106.40
1	N	644	U	C4-C5-C6	-7.17	115.40	119.70
1	N	998	C	N3-C4-C5	-7.17	119.03	121.90
1	N	575	G	N1-C2-N3	-7.17	119.60	123.90
1	N	586	C	N3-C4-N4	7.17	123.02	118.00
1	N	203	G	O4'-C1'-N9	7.17	113.94	108.20
1	N	472	U	N1-C2-O2	-7.17	117.78	122.80
1	N	1313	U	C3'-C2'-C1'	-7.17	95.76	101.50
1	N	464	U	P-O3'-C3'	7.17	128.30	119.70
1	N	677	U	C5-C6-N1	7.17	126.28	122.70
1	N	907	A	P-O3'-C3'	7.17	128.30	119.70
1	N	408	A	N1-C6-N6	7.17	122.90	118.60
1	N	890	G	N3-C4-N9	-7.17	121.70	126.00
1	N	967	C	C2-N3-C4	7.17	123.48	119.90
1	N	1064	G	N3-C4-N9	7.17	130.30	126.00
1	N	1324	A	C8-N9-C4	-7.17	102.93	105.80
1	N	1335	U	C5-C4-O4	-7.17	121.60	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	465	A	N1-C6-N6	7.17	122.90	118.60
1	N	100	G	N1-C2-N3	-7.16	119.60	123.90
1	N	206	C	P-O3'-C3'	7.16	128.30	119.70
1	N	529	G	N1-C2-N2	-7.16	109.75	116.20
1	N	1235	U	C5-C6-N1	7.16	126.28	122.70
1	N	698	G	N7-C8-N9	7.16	116.68	113.10
1	N	1261	A	C8-N9-C4	7.16	108.67	105.80
1	N	1386	G	P-O3'-C3'	-7.16	111.11	119.70
1	N	686	U	N1-C2-N3	7.16	119.20	114.90
1	N	903	G	N1-C2-N3	-7.16	119.60	123.90
1	N	1444	U	C5-C6-N1	7.16	126.28	122.70
1	N	84	U	C1'-O4'-C4'	-7.16	104.17	109.90
1	N	648	A	C4-C5-C6	7.16	120.58	117.00
1	N	1351	U	N3-C2-O2	7.16	127.21	122.20
1	N	1491	G	C4-C5-C6	7.16	123.10	118.80
1	N	179	A	C6-C5-N7	-7.16	127.29	132.30
1	N	479	U	P-O5'-C5'	7.16	132.35	120.90
1	N	672	U	N3-C4-O4	7.16	124.41	119.40
1	N	1265	C	N3-C2-O2	7.16	126.91	121.90
1	N	108	G	C6-C5-N7	-7.16	126.11	130.40
1	N	9	G	O4'-C1'-N9	7.15	113.92	108.20
1	N	267	C	C1'-O4'-C4'	7.15	115.62	109.90
1	N	819	A	C5-C6-N1	-7.15	114.12	117.70
1	N	282	A	C5-N7-C8	7.15	107.48	103.90
1	N	995	C	C2-N3-C4	7.15	123.48	119.90
1	N	45	G	C5-N7-C8	7.15	107.88	104.30
1	N	317	U	C5'-C4'-O4'	7.15	117.68	109.10
1	N	536	C	C6-N1-C2	-7.15	117.44	120.30
1	N	601	G	O4'-C1'-N9	7.15	113.92	108.20
1	N	602	A	C4-C5-C6	7.15	120.58	117.00
1	N	1145	A	C5-C6-N1	-7.15	114.12	117.70
1	N	184	G	N7-C8-N9	7.15	116.67	113.10
1	N	281	G	N3-C2-N2	7.15	124.90	119.90
1	N	198	G	N1-C2-N3	-7.15	119.61	123.90
1	N	230	G	N3-C2-N2	7.15	124.90	119.90
1	N	536	C	C5-C4-N4	-7.15	115.20	120.20
1	N	812	G	C8-N9-C4	7.15	109.26	106.40
1	N	1047	G	N1-C2-N3	-7.15	119.61	123.90
1	N	1167	A	C8-N9-C4	-7.15	102.94	105.80
1	N	1221	G	N9-C4-C5	-7.15	102.54	105.40
1	N	172	A	N3-C4-C5	-7.14	121.80	126.80
1	N	618	C	C5-C4-N4	-7.14	115.20	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1268	G	N1-C6-O6	7.14	124.19	119.90
1	N	220	G	C6-C5-N7	-7.14	126.11	130.40
1	N	521	G	C6-C5-N7	-7.14	126.11	130.40
1	N	1153	G	P-O3'-C3'	-7.14	111.13	119.70
1	N	1364	U	N3-C4-O4	7.14	124.40	119.40
1	N	959	A	P-O3'-C3'	7.14	128.27	119.70
1	N	1220	G	C4-N9-C1'	-7.14	117.22	126.50
1	N	65	A	O4'-C1'-N9	7.14	113.91	108.20
1	N	372	C	N3-C4-N4	7.14	123.00	118.00
1	N	723	U	C6-N1-C2	-7.14	116.72	121.00
1	N	728	A	N3-C4-C5	-7.14	121.80	126.80
1	N	854	U	P-O3'-C3'	-7.14	111.13	119.70
1	N	1300	G	P-O3'-C3'	7.14	128.27	119.70
1	N	1301	U	N1-C2-O2	-7.14	117.80	122.80
1	N	37	U	N1-C1'-C2'	-7.14	104.15	112.00
1	N	143	A	N9-C4-C5	7.14	108.66	105.80
1	N	446	G	N1-C6-O6	7.14	124.18	119.90
1	N	838	G	P-O5'-C5'	7.14	132.32	120.90
1	N	952	U	C4'-C3'-C2'	-7.14	95.46	102.60
1	N	997	U	C2-N3-C4	-7.14	122.72	127.00
1	N	1067	A	C4-C5-C6	7.14	120.57	117.00
1	N	1404	C	C6-N1-C2	7.14	123.16	120.30
1	N	872	A	C5-C6-N6	-7.13	117.99	123.70
1	N	1197	A	P-O5'-C5'	7.13	132.31	120.90
1	N	1278	G	N1-C6-O6	7.13	124.18	119.90
1	N	1382	C	N3-C4-C5	-7.13	119.05	121.90
1	N	1430	A	N1-C6-N6	7.13	122.88	118.60
1	N	198	G	N3-C2-N2	7.13	124.89	119.90
1	N	355	C	P-O3'-C3'	7.13	128.26	119.70
1	N	435	A	C6-C5-N7	-7.13	127.31	132.30
1	N	445	G	C6-N1-C2	7.13	129.38	125.10
1	N	651	C	C5-C6-N1	7.13	124.57	121.00
1	N	1213	A	C1'-O4'-C4'	7.13	115.61	109.90
1	N	1470	U	O4'-C1'-N1	7.13	113.90	108.20
1	N	1489	G	N1-C6-O6	7.13	124.18	119.90
1	N	100	G	C5-C6-N1	-7.13	107.94	111.50
1	N	23	C	P-O5'-C5'	7.13	132.30	120.90
1	N	349	A	C5-C6-N1	-7.13	114.14	117.70
1	N	1011	C	N3-C4-N4	7.13	122.99	118.00
1	N	1251	A	O4'-C1'-C2'	7.13	114.01	107.60
1	N	806	C	N3-C4-C5	-7.12	119.05	121.90
1	N	1364	U	C1'-O4'-C4'	-7.12	104.20	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	172	A	N9-C1'-C2'	7.12	123.26	114.00
1	N	257	G	C4'-C3'-C2'	-7.12	95.48	102.60
1	N	319	G	N1-C2-N3	-7.12	119.63	123.90
1	N	1136	C	C5-C6-N1	7.12	124.56	121.00
1	N	608	A	C4-C5-C6	7.12	120.56	117.00
1	N	1498	U	C5-C4-O4	-7.12	121.63	125.90
1	N	1327	C	N3-C4-C5	-7.12	119.05	121.90
1	N	1454	G	O5'-P-OP2	7.12	119.24	110.70
1	N	186	C	C2-N3-C4	7.12	123.46	119.90
1	N	354	G	C5-N7-C8	-7.12	100.74	104.30
1	N	1149	C	N3-C4-N4	7.12	122.98	118.00
1	N	391	G	C1'-O4'-C4'	7.12	115.59	109.90
1	N	671	G	C5-C6-O6	-7.12	124.33	128.60
1	N	545	C	C6-N1-C2	-7.11	117.45	120.30
1	N	922	G	P-O3'-C3'	7.11	128.24	119.70
1	N	1396	A	N9-C4-C5	7.11	108.65	105.80
1	N	403	C	C6-N1-C2	7.11	123.14	120.30
1	N	96	U	C3'-C2'-C1'	7.11	107.19	101.50
1	N	1094	G	N3-C2-N2	7.11	124.88	119.90
1	N	1523	G	C6-C5-N7	-7.11	126.13	130.40
1	N	59	A	C5-C6-N6	-7.11	118.01	123.70
1	N	130	A	C5-C6-N6	-7.11	118.01	123.70
1	N	410	G	C6-C5-N7	7.11	134.66	130.40
1	N	536	C	N1-C2-O2	-7.11	114.64	118.90
1	N	639	G	N1-C6-O6	7.11	124.17	119.90
1	N	953	G	C2-N3-C4	-7.11	108.35	111.90
1	N	1200	C	C5'-C4'-C3'	7.11	127.37	116.00
1	N	653	U	C5-C4-O4	-7.11	121.64	125.90
1	N	738	C	O4'-C1'-N1	7.11	113.89	108.20
1	N	39	G	N3-C4-C5	7.10	132.15	128.60
1	N	417	G	C4-C5-N7	7.10	113.64	110.80
1	N	1276	G	P-O5'-C5'	7.10	132.26	120.90
1	N	1127	G	O4'-C4'-C3'	-7.10	96.90	104.00
1	N	120	A	O4'-C1'-C2'	-7.10	98.70	105.80
1	N	1401	G	N1-C2-N3	-7.10	119.64	123.90
1	N	706	A	C4-C5-C6	7.10	120.55	117.00
1	N	707	U	C6-N1-C2	-7.10	116.74	121.00
1	N	733	G	C4-C5-N7	7.10	113.64	110.80
1	N	754	C	C3'-C2'-C1'	7.10	107.18	101.50
1	N	552	U	C2-N3-C4	-7.10	122.74	127.00
1	N	588	G	N7-C8-N9	-7.10	109.55	113.10
1	N	683	G	O4'-C1'-N9	7.10	113.88	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1143	G	C5'-C4'-C3'	-7.10	104.65	116.00
1	N	104	G	N7-C8-N9	7.09	116.65	113.10
1	N	538	G	C8-N9-C4	-7.09	103.56	106.40
1	N	584	G	N1-C6-O6	7.09	124.16	119.90
1	N	1120	C	C6-N1-C1'	-7.09	112.29	120.80
1	N	1164	G	C5-C6-O6	-7.09	124.34	128.60
1	N	1222	G	C2-N3-C4	7.09	115.45	111.90
1	N	600	A	O4'-C1'-N9	7.09	113.87	108.20
1	N	675	A	C5-C6-N6	-7.09	118.03	123.70
1	N	841	C	N3-C4-C5	-7.09	119.06	121.90
1	N	634	C	O4'-C1'-N1	7.09	113.87	108.20
1	N	700	G	N1-C2-N3	-7.09	119.64	123.90
1	N	1082	A	O4'-C1'-N9	7.09	113.87	108.20
1	N	1208	C	C5-C4-N4	-7.09	115.24	120.20
1	N	166	U	C5-C4-O4	-7.09	121.65	125.90
1	N	917	G	C4-N9-C1'	7.09	135.72	126.50
1	N	964	A	C4-C5-C6	7.09	120.54	117.00
1	N	281	G	N3-C4-N9	7.09	130.25	126.00
1	N	319	G	C4-C5-C6	7.09	123.05	118.80
1	N	473	U	O4'-C1'-N1	7.09	113.87	108.20
1	N	1322	C	C6-N1-C1'	-7.09	112.30	120.80
1	N	1070	U	C5-C4-O4	-7.08	121.65	125.90
1	N	128	G	C4-C5-C6	7.08	123.05	118.80
1	N	622	A	N7-C8-N9	-7.08	110.26	113.80
1	N	1310	G	N3-C2-N2	7.08	124.86	119.90
1	N	1279	G	C5'-C4'-O4'	7.08	117.60	109.10
1	N	1499	A	C5-C6-N1	-7.08	114.16	117.70
1	N	1089	G	C5-C6-N1	-7.08	107.96	111.50
1	N	1119	C	O4'-C1'-N1	7.08	113.86	108.20
1	N	1147	C	C5-C6-N1	7.08	124.54	121.00
1	N	103	U	N3-C4-O4	7.08	124.35	119.40
1	N	337	G	C2-N3-C4	-7.08	108.36	111.90
1	N	1103	C	P-O5'-C5'	-7.08	109.58	120.90
1	N	1163	A	C4-C5-C6	7.08	120.54	117.00
1	N	46	G	P-O3'-C3'	7.08	128.19	119.70
1	N	279	A	C6-C5-N7	-7.08	127.35	132.30
1	N	881	G	C5-C6-N1	7.08	115.04	111.50
1	N	1308	U	O4'-C1'-N1	7.08	113.86	108.20
1	N	380	G	C4'-C3'-C2'	-7.07	95.53	102.60
1	N	406	G	O4'-C1'-N9	7.07	113.86	108.20
1	N	690	G	C5'-C4'-O4'	7.07	117.58	109.10
1	N	1009	U	N1-C2-N3	-7.07	110.66	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1408	A	O4'-C1'-N9	7.07	113.86	108.20
1	N	1446	A	C5-C6-N6	-7.07	118.04	123.70
1	N	945	G	C5-N7-C8	7.07	107.83	104.30
1	N	131	A	C2-N3-C4	7.07	114.13	110.60
1	N	508	U	P-O3'-C3'	7.07	128.18	119.70
1	N	865	A	C6-C5-N7	-7.07	127.35	132.30
1	N	904	U	O4'-C1'-N1	7.07	113.86	108.20
1	N	1041	G	C4-C5-N7	-7.07	107.97	110.80
1	N	1205	U	C4-C5-C6	-7.07	115.46	119.70
1	N	1451	U	N3-C4-C5	-7.07	110.36	114.60
1	N	203	G	N7-C8-N9	-7.07	109.57	113.10
1	N	282	A	C8-N9-C4	-7.07	102.97	105.80
1	N	375	U	C5-C4-O4	-7.07	121.66	125.90
1	N	381	C	C5-C4-N4	7.07	125.14	120.20
1	N	704	A	C8-N9-C4	-7.07	102.97	105.80
1	N	1174	G	C2-N3-C4	-7.06	108.37	111.90
1	N	1201	A	C5-C6-N1	-7.06	114.17	117.70
1	N	124	C	C5-C4-N4	-7.06	115.26	120.20
1	N	666	G	N1-C2-N3	-7.06	119.66	123.90
1	N	882	C	C2-N3-C4	7.06	123.43	119.90
1	N	1333	A	C4-C5-C6	7.06	120.53	117.00
1	N	95	C	C5-C6-N1	7.06	124.53	121.00
1	N	1013	G	C4-C5-C6	7.06	123.04	118.80
1	N	1526	G	N1-C6-O6	7.06	124.14	119.90
1	N	451	A	P-O3'-C3'	7.06	128.17	119.70
1	N	584	G	O4'-C1'-N9	7.06	113.85	108.20
1	N	1354	U	C5-C4-O4	-7.06	121.67	125.90
1	N	529	G	C3'-C2'-C1'	7.06	107.14	101.50
1	N	912	C	C5-C6-N1	7.06	124.53	121.00
1	N	1153	G	C4-C5-C6	7.06	123.03	118.80
1	N	1056	U	O4'-C1'-N1	7.06	113.84	108.20
1	N	1392	G	C4-C5-N7	-7.06	107.98	110.80
1	N	217	C	P-O3'-C3'	-7.05	111.23	119.70
1	N	286	C	C4-C5-C6	-7.05	113.87	117.40
1	N	383	A	C5-C6-N6	-7.05	118.06	123.70
1	N	1333	A	C2-N3-C4	7.05	114.13	110.60
1	N	1374	A	O4'-C4'-C3'	-7.05	96.95	104.00
1	N	713	G	C4'-C3'-C2'	-7.05	95.55	102.60
1	N	65	A	P-O3'-C3'	7.05	128.16	119.70
1	N	840	C	C2-N1-C1'	7.05	126.56	118.80
1	N	984	C	N3-C4-N4	7.05	122.94	118.00
1	N	1039	G	C8-N9-C4	-7.05	103.58	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1053	G	C5-C6-N1	-7.05	107.97	111.50
1	N	1060	U	N3-C4-O4	7.05	124.34	119.40
1	N	1200	C	N3-C4-N4	7.05	122.94	118.00
1	N	98	A	C4-C5-C6	7.05	120.53	117.00
1	N	546	A	C5-C6-N6	-7.05	118.06	123.70
1	N	1108	G	C6-C5-N7	-7.05	126.17	130.40
1	N	1229	A	N7-C8-N9	-7.05	110.28	113.80
1	N	1270	G	C5-C6-N1	7.05	115.03	111.50
1	N	644	U	O4'-C1'-N1	7.05	113.84	108.20
1	N	1021	A	C5-C6-N1	-7.05	114.18	117.70
1	N	270	A	C5-N7-C8	7.05	107.42	103.90
1	N	1482	G	C5-N7-C8	-7.05	100.78	104.30
1	N	101	A	C8-N9-C4	-7.04	102.98	105.80
1	N	410	G	N3-C2-N2	7.04	124.83	119.90
1	N	491	G	N9-C4-C5	-7.04	102.58	105.40
1	N	588	G	C5-C6-N1	-7.04	107.98	111.50
1	N	879	C	N1-C2-N3	-7.04	114.27	119.20
1	N	1308	U	N3-C4-O4	7.04	124.33	119.40
1	N	74	A	C1'-O4'-C4'	7.04	115.53	109.90
1	N	124	C	C6-N1-C2	-7.04	117.48	120.30
1	N	183	C	C5-C6-N1	7.04	124.52	121.00
1	N	288	A	P-O3'-C3'	-7.04	111.25	119.70
1	N	898	G	O4'-C1'-N9	7.04	113.83	108.20
1	N	1073	U	C2-N3-C4	-7.04	122.78	127.00
1	N	1485	U	N3-C2-O2	7.04	127.13	122.20
1	N	1485	U	N3-C4-O4	7.04	124.33	119.40
1	N	140	U	C2'-C3'-O3'	7.04	124.98	109.50
1	N	513	C	P-O3'-C3'	7.04	128.15	119.70
1	N	1475	G	C4-C5-N7	-7.04	107.98	110.80
1	N	610	U	C5-C6-N1	7.04	126.22	122.70
1	N	110	C	C2-N3-C4	7.04	123.42	119.90
1	N	127	G	O4'-C1'-N9	7.04	113.83	108.20
1	N	1351	U	N3-C4-O4	7.04	124.33	119.40
1	N	285	C	C4-C5-C6	-7.03	113.88	117.40
1	N	796	C	C5-C4-N4	-7.03	115.28	120.20
1	N	862	C	N3-C4-N4	7.03	122.92	118.00
1	N	912	C	O4'-C1'-N1	7.03	113.83	108.20
1	N	944	G	O4'-C1'-N9	7.03	113.83	108.20
1	N	533	A	C4-C5-C6	7.03	120.52	117.00
1	N	999	C	O4'-C1'-N1	7.03	113.82	108.20
1	N	174	A	N9-C4-C5	7.03	108.61	105.80
1	N	344	A	C6-N1-C2	7.03	122.82	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	982	U	C4-C5-C6	7.03	123.92	119.70
1	N	1334	G	N1-C2-N2	-7.03	109.88	116.20
1	N	312	C	C2-N3-C4	7.03	123.41	119.90
1	N	317	U	N1-C2-O2	7.03	127.72	122.80
1	N	1032	G	C4'-C3'-C2'	-7.03	95.58	102.60
1	N	1397	C	N3-C4-N4	7.03	122.92	118.00
1	N	11	G	P-O3'-C3'	-7.02	111.27	119.70
1	N	421	U	C5-C4-O4	-7.02	121.69	125.90
1	N	1236	A	C6-C5-N7	-7.02	127.38	132.30
1	N	767	A	N1-C6-N6	7.02	122.81	118.60
1	N	917	G	C2-N3-C4	-7.02	108.39	111.90
1	N	1303	C	N3-C4-C5	-7.02	119.09	121.90
1	N	353	A	C4-C5-N7	-7.02	107.19	110.70
1	N	841	C	C5-C6-N1	-7.02	117.49	121.00
1	N	939	G	C4-C5-N7	7.02	113.61	110.80
1	N	1129	C	N3-C4-C5	-7.02	119.09	121.90
1	N	561	U	C3'-C2'-C1'	7.02	107.11	101.50
1	N	582	C	O4'-C1'-N1	7.01	113.81	108.20
1	N	611	C	O4'-C1'-N1	7.01	113.81	108.20
1	N	1377	A	O3'-P-O5'	-7.01	90.67	104.00
1	N	1437	A	C8-N9-C4	-7.01	103.00	105.80
1	N	1285	A	C5-C6-N6	-7.01	118.09	123.70
1	N	1465	A	C5-N7-C8	7.01	107.41	103.90
1	N	320	A	O4'-C1'-N9	7.01	113.81	108.20
1	N	876	C	N3-C2-O2	7.01	126.81	121.90
1	N	1230	C	C6-N1-C1'	-7.01	112.39	120.80
1	N	50	A	N9-C1'-C2'	7.01	123.11	114.00
1	N	421	U	C5-C6-N1	7.01	126.20	122.70
1	N	750	C	C5-C4-N4	-7.01	115.29	120.20
1	N	939	G	C6-C5-N7	-7.01	126.19	130.40
1	N	860	A	C4-C5-C6	7.01	120.50	117.00
1	N	2	A	O4'-C4'-C3'	-7.01	96.99	104.00
1	N	354	G	C5'-C4'-O4'	7.01	117.51	109.10
1	N	528	C	N3-C4-N4	7.01	122.90	118.00
1	N	878	A	O4'-C1'-N9	7.01	113.81	108.20
1	N	1241	G	C4-C5-C6	7.00	123.00	118.80
1	N	1071	C	C4'-C3'-C2'	-7.00	95.60	102.60
1	N	1305	G	C6-N1-C2	7.00	129.30	125.10
1	N	967	C	N3-C4-C5	-7.00	119.10	121.90
1	N	574	A	O4'-C1'-N9	7.00	113.80	108.20
1	N	589	U	O4'-C1'-N1	7.00	113.80	108.20
1	N	1095	U	N3-C2-O2	7.00	127.10	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	796	C	N1-C2-N3	-7.00	114.30	119.20
1	N	1218	C	N1-C2-O2	-7.00	114.70	118.90
1	N	275	G	N7-C8-N9	7.00	116.60	113.10
1	N	1482	G	C2-N3-C4	-7.00	108.40	111.90
1	N	57	G	P-O5'-C5'	6.99	132.09	120.90
1	N	515	G	C5-N7-C8	-6.99	100.80	104.30
1	N	548	G	O4'-C4'-C3'	6.99	111.69	106.10
1	N	752	G	N3-C4-N9	-6.99	121.80	126.00
1	N	849	G	N9-C4-C5	-6.99	102.60	105.40
1	N	855	U	N3-C4-C5	-6.99	110.40	114.60
1	N	1361	G	N3-C2-N2	6.99	124.80	119.90
1	N	1418	A	P-O5'-C5'	6.99	132.09	120.90
1	N	266	G	P-O3'-C3'	6.99	128.09	119.70
1	N	432	A	C2-N3-C4	-6.99	107.10	110.60
1	N	539	A	O4'-C1'-N9	6.99	113.79	108.20
1	N	787	A	N9-C4-C5	6.99	108.60	105.80
1	N	1174	G	N1-C2-N2	-6.99	109.91	116.20
1	N	316	C	C2-N3-C4	6.99	123.39	119.90
1	N	604	G	C4-C5-C6	6.99	122.99	118.80
1	N	1150	A	C4-C5-N7	-6.99	107.21	110.70
1	N	1467	C	N3-C2-O2	6.99	126.79	121.90
1	N	475	C	C5-C6-N1	-6.99	117.51	121.00
1	N	1044	A	C5-C6-N6	-6.99	118.11	123.70
1	N	302	G	C4'-C3'-C2'	-6.99	95.61	102.60
1	N	4	U	C5'-C4'-C3'	-6.98	104.83	116.00
1	N	1312	G	C5-N7-C8	6.98	107.79	104.30
1	N	489	C	O4'-C1'-N1	6.98	113.79	108.20
1	N	415	A	C5-C6-N6	-6.98	118.11	123.70
1	N	625	U	C5-C6-N1	6.98	126.19	122.70
1	N	1269	A	C6-N1-C2	-6.98	114.41	118.60
1	N	252	U	N3-C4-O4	6.98	124.29	119.40
1	N	442	G	O4'-C1'-N9	6.98	113.78	108.20
1	N	287	U	C5-C6-N1	6.98	126.19	122.70
1	N	457	G	N7-C8-N9	-6.98	109.61	113.10
1	N	502	A	N1-C2-N3	6.98	132.79	129.30
1	N	665	A	O4'-C1'-N9	6.98	113.78	108.20
1	N	1014	A	C5-N7-C8	6.98	107.39	103.90
1	N	440	C	O4'-C1'-N1	6.97	113.78	108.20
1	N	714	G	O4'-C1'-N9	6.97	113.78	108.20
1	N	916	U	C5-C6-N1	6.97	126.19	122.70
1	N	1441	A	N1-C6-N6	6.97	122.78	118.60
1	N	1335	U	C1'-O4'-C4'	-6.97	104.32	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1234	C	C5-C6-N1	6.97	124.48	121.00
1	N	657	U	P-O3'-C3'	6.97	128.06	119.70
1	N	677	U	O4'-C1'-N1	6.97	113.78	108.20
1	N	388	G	N9-C1'-C2'	-6.97	104.34	112.00
1	N	842	U	N1-C2-N3	-6.97	110.72	114.90
1	N	1032	G	C2-N3-C4	-6.97	108.42	111.90
1	N	1124	G	C5-C6-O6	-6.97	124.42	128.60
1	N	1188	A	C5-C6-N1	-6.97	114.22	117.70
1	N	1366	C	C2-N3-C4	6.97	123.38	119.90
1	N	948	C	C2-N3-C4	6.96	123.38	119.90
1	N	1220	G	N3-C2-N2	-6.96	115.03	119.90
1	N	347	G	N1-C2-N3	-6.96	119.72	123.90
1	N	742	G	C6-C5-N7	-6.96	126.22	130.40
1	N	781	A	C4-C5-C6	6.96	120.48	117.00
1	N	1095	U	O4'-C4'-C3'	-6.96	97.04	104.00
1	N	1332	A	O4'-C1'-N9	6.96	113.77	108.20
1	N	622	A	P-O3'-C3'	6.96	128.05	119.70
1	N	1061	G	C5'-C4'-C3'	6.96	127.14	116.00
1	N	1265	C	N1-C2-O2	-6.96	114.72	118.90
1	N	695	A	P-O3'-C3'	6.96	128.05	119.70
1	N	6	G	N1-C2-N3	-6.96	119.73	123.90
1	N	468	A	P-O3'-C3'	6.96	128.05	119.70
1	N	1081	A	C6-C5-N7	-6.96	127.43	132.30
1	N	1432	G	N9-C4-C5	-6.96	102.62	105.40
1	N	1480	A	C1'-O4'-C4'	6.96	115.46	109.90
1	N	462	G	C6-N1-C2	6.95	129.27	125.10
1	N	1101	A	C4'-C3'-C2'	6.95	109.55	102.60
1	N	1380	U	N1-C2-N3	-6.95	110.73	114.90
1	N	38	G	C8-N9-C1'	6.95	136.04	127.00
1	N	431	A	C5'-C4'-O4'	6.95	117.44	109.10
1	N	911	U	C4-C5-C6	-6.95	115.53	119.70
1	N	1144	G	C2-N3-C4	-6.95	108.42	111.90
1	N	1251	A	O4'-C1'-N9	6.95	113.76	108.20
1	N	235	C	C5-C4-N4	-6.95	115.33	120.20
1	N	590	U	O4'-C1'-N1	6.95	113.76	108.20
1	N	878	A	C5-C6-N1	-6.95	114.22	117.70
1	N	1253	G	N1-C6-O6	6.95	124.07	119.90
1	N	930	C	O4'-C1'-N1	6.95	113.76	108.20
1	N	1196	A	N1-C6-N6	6.95	122.77	118.60
1	N	542	G	C5-C6-N1	-6.95	108.03	111.50
1	N	667	G	C6-C5-N7	-6.95	126.23	130.40
1	N	1129	C	C2-N3-C4	6.95	123.37	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	307	C	C6-N1-C1'	-6.94	112.47	120.80
1	N	704	A	C4-C5-C6	6.94	120.47	117.00
1	N	816	A	C4-C5-C6	6.94	120.47	117.00
1	N	455	G	C8-N9-C4	6.94	109.18	106.40
1	N	642	A	C5-N7-C8	6.94	107.37	103.90
1	N	900	A	N1-C6-N6	6.94	122.77	118.60
1	N	1436	U	P-O5'-C5'	-6.94	109.79	120.90
1	N	1213	A	C6-N1-C2	-6.94	114.44	118.60
1	N	1232	U	C6-N1-C2	6.94	125.17	121.00
1	N	954	G	N1-C2-N3	-6.94	119.74	123.90
1	N	991	U	C3'-C2'-C1'	6.94	107.05	101.50
1	N	1168	U	C2-N3-C4	-6.94	122.84	127.00
1	N	596	A	O4'-C1'-N9	6.94	113.75	108.20
1	N	990	C	C6-N1-C2	-6.94	117.53	120.30
1	N	1343	G	C4-C5-N7	6.94	113.58	110.80
1	N	19	A	C6-N1-C2	6.94	122.76	118.60
1	N	321	A	C2-N3-C4	-6.94	107.13	110.60
1	N	801	U	N3-C4-O4	6.93	124.25	119.40
1	N	1094	G	C3'-C2'-C1'	6.93	107.05	101.50
1	N	1492	A	C5-C6-N1	-6.93	114.23	117.70
1	N	120	A	N9-C4-C5	6.93	108.57	105.80
1	N	762	U	N3-C4-O4	6.93	124.25	119.40
1	N	1322	C	C2-N1-C1'	6.93	126.42	118.80
1	N	635	A	N3-C4-C5	-6.93	121.95	126.80
1	N	1241	G	C5-C6-N1	-6.93	108.03	111.50
1	N	1533	C	N3-C4-N4	6.93	122.85	118.00
1	N	971	G	O4'-C1'-N9	6.93	113.74	108.20
1	N	353	A	C4-C5-C6	6.93	120.46	117.00
1	N	568	G	N1-C2-N3	-6.93	119.74	123.90
1	N	930	C	C5-C6-N1	-6.93	117.54	121.00
1	N	1517	G	C4-C5-C6	6.93	122.95	118.80
1	N	267	C	C4-C5-C6	6.92	120.86	117.40
1	N	913	A	C4-C5-N7	-6.92	107.24	110.70
1	N	1071	C	C3'-C2'-C1'	6.92	107.04	101.50
1	N	1079	G	C5-C6-O6	-6.92	124.44	128.60
1	N	1297	G	P-O3'-C3'	6.92	128.01	119.70
1	N	34	C	C2-N1-C1'	6.92	126.41	118.80
1	N	215	C	C3'-C2'-C1'	6.92	107.04	101.50
1	N	589	U	N1-C2-N3	6.92	119.05	114.90
1	N	848	C	P-O5'-C5'	6.92	131.97	120.90
1	N	1292	G	C8-N9-C4	-6.92	103.63	106.40
1	N	1372	U	C2-N3-C4	-6.92	122.85	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1285	A	C4-C5-C6	-6.92	113.54	117.00
1	N	213	G	O4'-C1'-N9	6.92	113.73	108.20
1	N	310	G	C6-C5-N7	-6.92	126.25	130.40
1	N	1184	G	C5-N7-C8	-6.92	100.84	104.30
1	N	1183	U	P-O5'-C5'	6.92	131.97	120.90
1	N	68	G	N9-C4-C5	-6.92	102.63	105.40
1	N	270	A	C4-C5-C6	6.92	120.46	117.00
1	N	1135	U	C5-C6-N1	6.92	126.16	122.70
1	N	126	G	N7-C8-N9	6.91	116.56	113.10
1	N	285	C	N3-C4-N4	6.91	122.84	118.00
1	N	694	A	C5'-C4'-C3'	6.91	127.06	116.00
1	N	1355	G	C8-N9-C1'	6.91	135.99	127.00
1	N	1433	A	O4'-C4'-C3'	-6.91	97.09	104.00
1	N	57	G	N1-C2-N3	-6.91	119.75	123.90
1	N	858	G	O4'-C1'-N9	6.91	113.73	108.20
1	N	939	G	O4'-C1'-N9	6.91	113.73	108.20
1	N	1344	C	C5-C4-N4	-6.91	115.36	120.20
1	N	534	U	C5-C4-O4	-6.91	121.75	125.90
1	N	622	A	O4'-C1'-N9	6.91	113.73	108.20
1	N	1168	U	O4'-C1'-N1	6.91	113.73	108.20
1	N	1365	G	C5-C6-O6	-6.91	124.45	128.60
1	N	682	G	C8-N9-C4	-6.91	103.64	106.40
1	N	1369	C	O4'-C1'-N1	6.91	113.73	108.20
1	N	230	G	C5-C6-N1	-6.91	108.05	111.50
1	N	1448	C	C2-N1-C1'	6.91	126.40	118.80
1	N	305	G	N1-C6-O6	6.90	124.04	119.90
1	N	942	G	N3-C2-N2	6.90	124.73	119.90
1	N	245	U	N1-C2-N3	-6.90	110.76	114.90
1	N	344	A	C4-C5-C6	6.90	120.45	117.00
1	N	424	G	N7-C8-N9	6.90	116.55	113.10
1	N	457	G	N1-C6-O6	6.90	124.04	119.90
1	N	882	C	O4'-C1'-N1	6.90	113.72	108.20
1	N	204	G	N1-C6-O6	6.90	124.04	119.90
1	N	343	U	P-O5'-C5'	6.90	131.94	120.90
1	N	739	C	P-O5'-C5'	6.90	131.94	120.90
1	N	750	C	O4'-C1'-N1	6.90	113.72	108.20
1	N	1066	C	C3'-C2'-C1'	6.90	107.02	101.50
1	N	1265	C	N3-C4-N4	6.90	122.83	118.00
1	N	1334	G	C4-N9-C1'	6.90	135.47	126.50
1	N	1337	G	N3-C4-C5	6.90	132.05	128.60
1	N	500	G	N9-C1'-C2'	-6.90	104.42	112.00
1	N	703	G	C1'-O4'-C4'	6.90	115.42	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	928	G	C8-N9-C4	-6.90	103.64	106.40
1	N	429	U	P-O3'-C3'	6.89	127.97	119.70
1	N	892	A	O4'-C1'-N9	6.89	113.72	108.20
1	N	1019	A	C5-C6-N6	-6.89	118.18	123.70
1	N	434	U	P-O3'-C3'	6.89	127.97	119.70
1	N	774	G	C5-C6-O6	-6.89	124.47	128.60
1	N	852	G	N1-C6-O6	6.89	124.04	119.90
1	N	1170	A	C5'-C4'-C3'	6.89	127.03	116.00
1	N	1219	A	C5-C6-N6	-6.89	118.19	123.70
1	N	352	C	O4'-C1'-N1	6.89	113.71	108.20
1	N	1269	A	N1-C2-N3	6.89	132.74	129.30
1	N	786	G	C5-C6-N1	-6.89	108.06	111.50
1	N	832	G	C5-C6-N1	6.89	114.94	111.50
1	N	90	C	P-O3'-C3'	6.88	127.96	119.70
1	N	238	A	N3-C4-C5	-6.88	121.98	126.80
1	N	640	A	N3-C4-C5	-6.88	121.98	126.80
1	N	1251	A	C5-C6-N1	-6.88	114.26	117.70
1	N	69	G	C1'-O4'-C4'	6.88	115.41	109.90
1	N	441	A	O4'-C1'-N9	6.88	113.70	108.20
1	N	771	G	C1'-O4'-C4'	6.88	115.41	109.90
1	N	621	A	C6-C5-N7	-6.88	127.48	132.30
1	N	760	G	N1-C2-N3	-6.88	119.77	123.90
1	N	1128	C	O4'-C1'-N1	6.88	113.70	108.20
1	N	108	G	O4'-C1'-N9	6.88	113.70	108.20
1	N	252	U	C5'-C4'-C3'	-6.88	104.99	116.00
1	N	281	G	N1-C2-N3	-6.88	119.77	123.90
1	N	1191	A	C5-C6-N6	-6.88	118.20	123.70
1	N	769	G	C2-N3-C4	6.88	115.34	111.90
1	N	828	U	C5'-C4'-C3'	6.88	127.00	116.00
1	N	974	A	C6-C5-N7	-6.88	127.49	132.30
1	N	1109	C	C5-C6-N1	6.88	124.44	121.00
1	N	624	C	N3-C4-C5	-6.88	119.15	121.90
1	N	1511	G	C5'-C4'-C3'	-6.88	105.00	116.00
1	N	636	U	N1-C2-N3	6.87	119.02	114.90
1	N	255	G	C4-C5-C6	6.87	122.92	118.80
1	N	282	A	C6-C5-N7	-6.87	127.49	132.30
1	N	671	G	N9-C4-C5	6.87	108.15	105.40
1	N	744	C	C4-C5-C6	6.87	120.83	117.40
1	N	1246	A	C5-N7-C8	6.87	107.33	103.90
1	N	485	U	O4'-C1'-N1	6.87	113.70	108.20
1	N	501	C	C6-N1-C2	-6.87	117.55	120.30
1	N	855	U	C5-C6-N1	6.87	126.14	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	877	G	O4'-C1'-N9	6.87	113.70	108.20
1	N	182	A	C5'-C4'-C3'	-6.87	105.01	116.00
1	N	212	G	P-O3'-C3'	6.87	127.94	119.70
1	N	1076	U	N3-C4-O4	6.87	124.21	119.40
1	N	1454	G	N9-C4-C5	-6.87	102.65	105.40
1	N	799	G	C8-N9-C4	-6.87	103.65	106.40
1	N	1077	G	C8-N9-C4	-6.87	103.65	106.40
1	N	1221	G	N1-C6-O6	6.87	124.02	119.90
1	N	1526	G	C2-N3-C4	6.87	115.33	111.90
1	N	1253	G	C6-C5-N7	-6.87	126.28	130.40
1	N	1446	A	C6-C5-N7	-6.87	127.49	132.30
1	N	1439	G	N1-C6-O6	6.86	124.02	119.90
1	N	11	G	N1-C2-N3	-6.86	119.78	123.90
1	N	653	U	N3-C4-C5	-6.86	110.48	114.60
1	N	716	A	C4-C5-C6	6.86	120.43	117.00
1	N	1105	A	C4-C5-C6	6.86	120.43	117.00
1	N	1180	A	C6-N1-C2	6.86	122.72	118.60
1	N	1502	A	C5-C6-N1	-6.86	114.27	117.70
1	N	1197	A	N7-C8-N9	6.86	117.23	113.80
1	N	1205	U	O4'-C1'-N1	6.86	113.69	108.20
1	N	1289	A	N1-C6-N6	6.86	122.72	118.60
1	N	741	G	N3-C2-N2	6.86	124.70	119.90
1	N	769	G	N3-C4-C5	-6.86	125.17	128.60
1	N	1260	G	N3-C4-C5	6.86	132.03	128.60
1	N	1008	U	N1-C2-N3	-6.85	110.79	114.90
1	N	200	G	N9-C4-C5	-6.85	102.66	105.40
1	N	232	G	C5-N7-C8	6.85	107.72	104.30
1	N	785	G	N3-C2-N2	6.85	124.69	119.90
1	N	1343	G	C5-C6-O6	-6.85	124.49	128.60
1	N	77	A	O4'-C1'-C2'	6.85	113.77	107.60
1	N	235	C	C2-N3-C4	6.85	123.32	119.90
1	N	454	G	C8-N9-C4	-6.85	103.66	106.40
1	N	512	U	P-O3'-C3'	-6.85	111.48	119.70
1	N	1156	G	C8-N9-C4	6.85	109.14	106.40
1	N	486	U	N3-C4-O4	6.85	124.19	119.40
1	N	1174	G	N3-C4-C5	6.85	132.02	128.60
1	N	734	G	C6-C5-N7	-6.85	126.29	130.40
1	N	33	A	P-O3'-C3'	6.84	127.91	119.70
1	N	158	G	C2-N3-C4	6.84	115.32	111.90
1	N	376	G	N9-C4-C5	-6.84	102.66	105.40
1	N	711	G	C4'-C3'-C2'	-6.84	95.76	102.60
1	N	548	G	C5-N7-C8	-6.84	100.88	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1154	G	N3-C4-C5	6.84	132.02	128.60
1	N	1292	G	N1-C2-N3	-6.84	119.79	123.90
1	N	583	A	C4-C5-N7	-6.84	107.28	110.70
1	N	1391	U	O4'-C1'-N1	6.84	113.67	108.20
1	N	108	G	C5'-C4'-O4'	6.84	117.31	109.10
1	N	252	U	C5-C4-O4	-6.84	121.80	125.90
1	N	315	A	P-O3'-C3'	-6.84	111.49	119.70
1	N	817	C	C2-N1-C1'	6.84	126.32	118.80
1	N	16	A	C4-C5-C6	6.84	120.42	117.00
1	N	21	G	O4'-C1'-N9	6.84	113.67	108.20
1	N	507	C	N3-C4-C5	-6.84	119.17	121.90
1	N	532	A	C5-N7-C8	6.84	107.32	103.90
1	N	1196	A	C4-C5-N7	6.84	114.12	110.70
1	N	1211	U	O4'-C1'-N1	6.84	113.67	108.20
1	N	370	C	O4'-C1'-N1	6.83	113.67	108.20
1	N	727	G	O4'-C1'-N9	6.83	113.67	108.20
1	N	765	G	O4'-C1'-N9	6.83	113.67	108.20
1	N	1352	C	C5-C6-N1	6.83	124.42	121.00
1	N	25	C	P-O3'-C3'	-6.83	111.50	119.70
1	N	1207	G	C4-C5-N7	6.83	113.53	110.80
1	N	130	A	N9-C4-C5	6.83	108.53	105.80
1	N	348	G	N7-C8-N9	-6.83	109.68	113.10
1	N	437	U	O4'-C1'-N1	6.83	113.67	108.20
1	N	740	U	C2-N3-C4	-6.83	122.90	127.00
1	N	938	A	C8-N9-C4	-6.83	103.07	105.80
1	N	220	G	N1-C6-O6	6.83	124.00	119.90
1	N	1350	A	C2-N3-C4	6.83	114.02	110.60
1	N	38	G	N9-C4-C5	6.83	108.13	105.40
1	N	180	U	C6-N1-C2	6.83	125.10	121.00
1	N	686	U	O4'-C1'-N1	6.83	113.66	108.20
1	N	14	U	C2-N1-C1'	6.83	125.89	117.70
1	N	117	G	C4-C5-N7	-6.83	108.07	110.80
1	N	346	G	C2-N3-C4	6.83	115.31	111.90
1	N	1220	G	N1-C2-N3	6.83	128.00	123.90
1	N	70	U	C5-C6-N1	6.82	126.11	122.70
1	N	800	G	N1-C6-O6	6.82	123.99	119.90
1	N	1188	A	C1'-O4'-C4'	-6.82	104.44	109.90
1	N	845	A	C4'-C3'-C2'	-6.82	95.78	102.60
1	N	1292	G	O4'-C1'-N9	6.82	113.66	108.20
1	N	243	A	C3'-C2'-C1'	6.82	106.96	101.50
1	N	264	C	P-O3'-C3'	6.82	127.88	119.70
1	N	1001	C	C2-N3-C4	6.82	123.31	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1050	G	C4-C5-N7	-6.82	108.07	110.80
1	N	1147	C	C2-N3-C4	-6.82	116.49	119.90
1	N	1204	A	C2-N3-C4	-6.82	107.19	110.60
1	N	1436	U	N3-C4-C5	-6.82	110.51	114.60
1	N	65	A	C2-N3-C4	-6.82	107.19	110.60
1	N	851	G	O4'-C1'-N9	6.82	113.65	108.20
1	N	867	G	O4'-C1'-N9	6.82	113.65	108.20
1	N	72	A	C5-C6-N1	6.82	121.11	117.70
1	N	219	U	C5'-C4'-O4'	6.82	117.28	109.10
1	N	643	C	O4'-C1'-N1	6.82	113.65	108.20
1	N	958	A	P-O5'-C5'	6.82	131.81	120.90
1	N	1486	G	N9-C4-C5	-6.82	102.67	105.40
1	N	823	C	C1'-O4'-C4'	-6.81	104.45	109.90
1	N	845	A	C4-C5-C6	6.81	120.41	117.00
1	N	1047	G	N9-C4-C5	6.81	108.13	105.40
1	N	1329	A	N9-C1'-C2'	-6.81	104.50	112.00
1	N	151	A	C5-N7-C8	6.81	107.31	103.90
1	N	462	G	N3-C4-C5	6.81	132.01	128.60
1	N	1491	G	C6-N1-C2	6.81	129.19	125.10
1	N	1507	A	C8-N9-C4	-6.81	103.08	105.80
1	N	661	G	C3'-C2'-C1'	-6.81	96.05	101.50
1	N	836	G	N3-C2-N2	6.81	124.67	119.90
1	N	1457	G	O4'-C1'-N9	6.81	113.65	108.20
1	N	866	C	N1-C2-O2	6.81	122.98	118.90
1	N	1166	G	C4-C5-N7	6.81	113.52	110.80
1	N	1272	G	N7-C8-N9	6.81	116.50	113.10
1	N	138	G	P-O3'-C3'	-6.81	111.53	119.70
1	N	460	A	C3'-C2'-C1'	-6.81	96.05	101.50
1	N	746	A	N3-C4-C5	-6.81	122.03	126.80
1	N	1413	A	C5-C6-N6	-6.81	118.25	123.70
1	N	340	U	N3-C4-O4	6.81	124.17	119.40
1	N	74	A	N7-C8-N9	-6.80	110.40	113.80
1	N	854	U	C2-N3-C4	6.80	131.08	127.00
1	N	1213	A	C4-C5-C6	6.80	120.40	117.00
1	N	1462	C	P-O5'-C5'	6.80	131.79	120.90
1	N	1329	A	C5-N7-C8	6.80	107.30	103.90
1	N	355	C	C5-C4-N4	-6.80	115.44	120.20
1	N	450	G	N3-C2-N2	6.80	124.66	119.90
1	N	612	C	N3-C4-C5	-6.80	119.18	121.90
1	N	619	U	C5-C4-O4	-6.80	121.82	125.90
1	N	958	A	C5-N7-C8	6.80	107.30	103.90
1	N	1300	G	C4'-C3'-C2'	-6.80	95.80	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	78	A	C2-N3-C4	6.80	114.00	110.60
1	N	336	A	C5-C6-N1	-6.80	114.30	117.70
1	N	1355	G	P-O3'-C3'	6.80	127.86	119.70
1	N	1526	G	N3-C4-C5	-6.80	125.20	128.60
1	N	46	G	N9-C4-C5	-6.79	102.68	105.40
1	N	112	G	O4'-C1'-N9	6.79	113.64	108.20
1	N	113	G	C5-C6-O6	-6.79	124.52	128.60
1	N	674	G	C6-C5-N7	-6.79	126.32	130.40
1	N	1116	U	N1-C2-N3	-6.79	110.82	114.90
1	N	332	G	N3-C2-N2	6.79	124.65	119.90
1	N	1526	G	C4-C5-C6	6.79	122.88	118.80
1	N	518	C	N3-C4-N4	6.79	122.75	118.00
1	N	192	A	C5-C6-N6	-6.79	118.27	123.70
1	N	1242	G	P-O3'-C3'	-6.79	111.56	119.70
1	N	994	A	C5'-C4'-C3'	-6.78	105.15	116.00
1	N	1040	U	O4'-C1'-N1	6.78	113.63	108.20
1	N	336	A	C5-N7-C8	6.78	107.29	103.90
1	N	396	C	N3-C4-N4	6.78	122.75	118.00
1	N	59	A	C6-N1-C2	-6.78	114.53	118.60
1	N	1144	G	C4-C5-N7	6.78	113.51	110.80
1	N	1351	U	C5'-C4'-O4'	6.78	117.24	109.10
1	N	1482	G	N1-C2-N2	-6.78	110.10	116.20
1	N	407	U	O4'-C1'-N1	6.78	113.62	108.20
1	N	689	C	C5-C4-N4	-6.78	115.45	120.20
1	N	894	G	N3-C2-N2	6.78	124.64	119.90
1	N	1003	G	C5-N7-C8	6.78	107.69	104.30
1	N	466	A	N9-C4-C5	-6.78	103.09	105.80
1	N	873	A	C1'-O4'-C4'	6.78	115.32	109.90
1	N	890	G	C1'-O4'-C4'	-6.78	104.48	109.90
1	N	1089	G	N3-C2-N2	6.78	124.64	119.90
1	N	383	A	C4-C5-C6	6.77	120.39	117.00
1	N	951	G	C5-N7-C8	6.77	107.69	104.30
1	N	111	G	C6-C5-N7	-6.77	126.34	130.40
1	N	364	A	C2-N3-C4	6.77	113.99	110.60
1	N	386	C	C4-C5-C6	6.77	120.79	117.40
1	N	688	G	C5-C6-N1	-6.77	108.11	111.50
1	N	682	G	N3-C4-N9	-6.77	121.94	126.00
1	N	165	G	N1-C6-O6	6.77	123.96	119.90
1	N	503	C	N3-C4-C5	6.77	124.61	121.90
1	N	749	A	C4'-C3'-C2'	-6.77	95.83	102.60
1	N	922	G	N3-C2-N2	6.77	124.64	119.90
1	N	583	A	N3-C4-C5	-6.77	122.06	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1010	U	N3-C2-O2	6.77	126.94	122.20
1	N	1062	U	O4'-C1'-N1	6.77	113.61	108.20
1	N	1197	A	N3-C4-C5	-6.77	122.06	126.80
1	N	1296	C	C6-N1-C2	6.77	123.01	120.30
1	N	241	G	N9-C4-C5	6.77	108.11	105.40
1	N	38	G	C4-C5-C6	6.76	122.86	118.80
1	N	74	A	N1-C6-N6	6.76	122.66	118.60
1	N	350	G	N3-C4-C5	6.76	131.98	128.60
1	N	1241	G	C5'-C4'-C3'	-6.76	105.17	116.00
1	N	1338	G	O4'-C1'-N9	6.76	113.61	108.20
1	N	425	G	C5'-C4'-O4'	6.76	117.22	109.10
1	N	1419	G	C8-N9-C4	-6.76	103.69	106.40
1	N	34	C	C5-C4-N4	-6.76	115.47	120.20
1	N	197	A	C5'-C4'-C3'	6.76	126.82	116.00
1	N	228	A	N3-C4-C5	-6.76	122.07	126.80
1	N	585	G	N9-C4-C5	-6.76	102.70	105.40
1	N	794	A	C6-N1-C2	-6.76	114.54	118.60
1	N	947	G	C5-C6-O6	-6.76	124.54	128.60
1	N	969	A	C5-N7-C8	6.76	107.28	103.90
1	N	1056	U	N1-C2-N3	-6.76	110.84	114.90
1	N	1380	U	P-O3'-C3'	6.76	127.81	119.70
1	N	226	G	N1-C2-N3	-6.76	119.84	123.90
1	N	507	C	N1-C2-O2	-6.76	114.84	118.90
1	N	1018	G	N1-C2-N3	-6.76	119.84	123.90
1	N	1091	U	N1-C2-N3	6.76	118.96	114.90
1	N	1189	U	C4-C5-C6	-6.76	115.64	119.70
1	N	1368	A	C4-C5-N7	-6.76	107.32	110.70
1	N	417	G	N7-C8-N9	-6.76	109.72	113.10
1	N	679	C	O4'-C1'-N1	6.76	113.61	108.20
1	N	1224	U	C1'-O4'-C4'	6.76	115.31	109.90
1	N	1332	A	N9-C4-C5	6.76	108.50	105.80
1	N	260	G	OP1-P-OP2	-6.75	109.47	119.60
1	N	393	A	C4-C5-C6	6.75	120.38	117.00
1	N	581	G	N7-C8-N9	6.75	116.48	113.10
1	N	1328	C	N3-C4-N4	6.75	122.73	118.00
1	N	526	C	O4'-C1'-N1	6.75	113.60	108.20
1	N	1283	U	C5'-C4'-C3'	-6.75	105.19	116.00
1	N	1290	G	C6-C5-N7	-6.75	126.35	130.40
1	N	996	A	N3-C4-C5	-6.75	122.07	126.80
1	N	669	G	C2-N3-C4	6.75	115.27	111.90
1	N	1134	G	C4-C5-N7	-6.75	108.10	110.80
1	N	877	G	C5-N7-C8	6.75	107.67	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	33	A	C5-C6-N1	-6.74	114.33	117.70
1	N	355	C	C6-N1-C2	-6.74	117.60	120.30
1	N	622	A	C2-N3-C4	6.74	113.97	110.60
1	N	632	U	O3'-P-O5'	-6.74	91.19	104.00
1	N	1232	U	C5-C6-N1	-6.74	119.33	122.70
1	N	172	A	N7-C8-N9	6.74	117.17	113.80
1	N	665	A	C6-N1-C2	-6.74	114.56	118.60
1	N	981	U	O5'-C5'-C4'	6.74	124.51	111.70
1	N	240	G	C4-C5-N7	-6.74	108.10	110.80
1	N	320	A	C4-C5-C6	6.74	120.37	117.00
1	N	776	G	N1-C2-N3	-6.74	119.86	123.90
1	N	779	C	C2-N3-C4	-6.74	116.53	119.90
1	N	1127	G	C5-N7-C8	-6.74	100.93	104.30
1	N	642	A	O4'-C1'-N9	6.74	113.59	108.20
1	N	773	G	O4'-C1'-N9	6.74	113.59	108.20
1	N	827	U	C5'-C4'-C3'	6.74	126.78	116.00
1	N	948	C	C6-N1-C2	-6.74	117.61	120.30
1	N	1370	G	N1-C2-N3	-6.74	119.86	123.90
1	N	540	G	C4-N9-C1'	-6.74	117.74	126.50
1	N	953	G	N7-C8-N9	-6.74	109.73	113.10
1	N	1139	G	P-O5'-C5'	6.74	131.68	120.90
1	N	414	A	C4-C5-C6	6.73	120.37	117.00
1	N	859	G	C5-C6-O6	-6.73	124.56	128.60
1	N	1434	A	N3-C4-N9	6.73	132.78	127.40
1	N	393	A	C3'-C2'-C1'	-6.73	96.12	101.50
1	N	854	U	C5-C6-N1	-6.73	119.33	122.70
1	N	1068	G	C8-N9-C4	-6.73	103.71	106.40
1	N	222	C	N1-C2-N3	-6.73	114.49	119.20
1	N	396	C	C5-C4-N4	-6.73	115.49	120.20
1	N	1110	A	N9-C4-C5	6.73	108.49	105.80
1	N	1213	A	C5-C6-N6	-6.73	118.32	123.70
1	N	1362	A	C6-C5-N7	-6.73	127.59	132.30
1	N	443	C	N3-C4-N4	6.72	122.71	118.00
1	N	524	G	N1-C2-N3	-6.72	119.86	123.90
1	N	1043	G	C2-N3-C4	6.72	115.26	111.90
1	N	1499	A	C8-N9-C4	-6.72	103.11	105.80
1	N	113	G	N1-C6-O6	6.72	123.93	119.90
1	N	1033	G	C2-N3-C4	6.72	115.26	111.90
1	N	314	C	N3-C4-N4	6.72	122.70	118.00
1	N	1351	U	C1'-O4'-C4'	6.72	115.28	109.90
1	N	140	U	C2-N1-C1'	-6.72	109.64	117.70
1	N	766	A	C3'-C2'-C1'	-6.72	96.12	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	143	A	C5-N7-C8	6.72	107.26	103.90
1	N	516	U	N3-C2-O2	6.72	126.90	122.20
1	N	796	C	C2-N3-C4	6.72	123.26	119.90
1	N	1525	G	C5-C6-O6	-6.72	124.57	128.60
1	N	157	U	N1-C2-N3	-6.71	110.87	114.90
1	N	302	G	N1-C6-O6	6.71	123.93	119.90
1	N	348	G	P-O3'-C3'	6.71	127.76	119.70
1	N	901	A	N1-C2-N3	-6.71	125.94	129.30
1	N	1092	A	C5-N7-C8	6.71	107.26	103.90
1	N	1305	G	N9-C4-C5	-6.71	102.71	105.40
1	N	1404	C	N3-C2-O2	6.71	126.60	121.90
1	N	98	A	C8-N9-C4	-6.71	103.11	105.80
1	N	198	G	C6-C5-N7	-6.71	126.37	130.40
1	N	788	U	P-O3'-C3'	6.71	127.75	119.70
1	N	1170	A	C6-N1-C2	-6.71	114.57	118.60
1	N	920	U	N3-C4-O4	6.71	124.10	119.40
1	N	1020	G	N3-C4-N9	-6.71	121.97	126.00
1	N	1102	A	C4-C5-C6	6.71	120.35	117.00
1	N	1335	U	O4'-C1'-N1	6.71	113.57	108.20
1	N	30	U	P-O3'-C3'	6.71	127.75	119.70
1	N	398	U	N3-C4-O4	6.71	124.09	119.40
1	N	546	A	C8-N9-C4	-6.71	103.12	105.80
1	N	1041	G	C4-C5-C6	6.71	122.82	118.80
1	N	1413	A	C5-N7-C8	6.71	107.25	103.90
1	N	336	A	C4-C5-C6	6.70	120.35	117.00
1	N	740	U	N1-C2-O2	-6.70	118.11	122.80
1	N	116	A	C5-C6-N6	-6.70	118.34	123.70
1	N	1429	A	C6-C5-N7	-6.70	127.61	132.30
1	N	75	G	P-O5'-C5'	-6.70	110.18	120.90
1	N	458	U	N3-C4-C5	-6.70	110.58	114.60
1	N	1342	C	N3-C4-N4	6.70	122.69	118.00
1	N	187	G	P-O3'-C3'	-6.70	111.66	119.70
1	N	346	G	P-O3'-C3'	6.70	127.73	119.70
1	N	444	G	P-O5'-C5'	6.70	131.61	120.90
1	N	753	A	C8-N9-C4	6.70	108.48	105.80
1	N	1302	C	C5-C4-N4	-6.70	115.51	120.20
1	N	458	U	C5'-C4'-C3'	-6.69	105.29	116.00
1	N	548	G	O4'-C1'-N9	6.69	113.56	108.20
1	N	683	G	N3-C2-N2	6.69	124.59	119.90
1	N	1047	G	C1'-O4'-C4'	6.69	115.25	109.90
1	N	298	A	N3-C4-N9	6.69	132.75	127.40
1	N	298	A	O4'-C1'-N9	6.69	113.55	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	539	A	N9-C4-C5	6.69	108.48	105.80
1	N	572	A	P-O3'-C3'	6.69	127.73	119.70
1	N	649	A	O3'-P-O5'	-6.69	91.28	104.00
1	N	1364	U	C2-N1-C1'	6.69	125.73	117.70
1	N	247	G	C5-C6-N1	-6.69	108.16	111.50
1	N	930	C	C4-C5-C6	6.69	120.75	117.40
1	N	1190	G	C6-C5-N7	-6.69	126.39	130.40
1	N	1459	G	C6-C5-N7	-6.69	126.39	130.40
1	N	1473	G	C5-C6-O6	-6.69	124.59	128.60
1	N	111	G	O4'-C1'-N9	6.69	113.55	108.20
1	N	237	G	C2-N3-C4	-6.69	108.56	111.90
1	N	498	A	C4-C5-N7	6.69	114.04	110.70
1	N	544	G	N3-C2-N2	-6.69	115.22	119.90
1	N	621	A	C2-N3-C4	-6.69	107.26	110.60
1	N	696	A	C5-C6-N1	-6.69	114.36	117.70
1	N	357	G	C5-N7-C8	-6.68	100.96	104.30
1	N	882	C	N3-C4-C5	-6.68	119.23	121.90
1	N	954	G	N1-C6-O6	6.68	123.91	119.90
1	N	112	G	C6-C5-N7	-6.68	126.39	130.40
1	N	233	C	N3-C4-N4	6.68	122.68	118.00
1	N	973	G	O4'-C1'-N9	6.68	113.55	108.20
1	N	1181	G	C5-C6-N1	-6.68	108.16	111.50
1	N	1377	A	N3-C4-C5	-6.68	122.12	126.80
1	N	1504	G	P-O3'-C3'	6.68	127.72	119.70
1	N	225	C	N3-C4-C5	-6.68	119.23	121.90
1	N	1089	G	C6-C5-N7	-6.68	126.39	130.40
1	N	1318	A	C4-C5-C6	6.68	120.34	117.00
1	N	153	C	N3-C4-C5	-6.68	119.23	121.90
1	N	438	U	C4-C5-C6	6.68	123.71	119.70
1	N	1004	A	O5'-C5'-C4'	6.68	124.39	111.70
1	N	1181	G	C8-N9-C1'	-6.68	118.32	127.00
1	N	1502	A	O4'-C1'-N9	6.68	113.54	108.20
1	N	999	C	C5-C6-N1	6.68	124.34	121.00
1	N	77	A	C5-C6-N1	-6.68	114.36	117.70
1	N	223	A	C5-C6-N6	-6.68	118.36	123.70
1	N	293	G	N1-C2-N3	-6.67	119.89	123.90
1	N	569	C	P-O3'-C3'	6.67	127.71	119.70
1	N	670	G	C5-N7-C8	-6.67	100.96	104.30
1	N	751	U	O4'-C1'-N1	6.67	113.54	108.20
1	N	897	C	C2-N1-C1'	6.67	126.14	118.80
1	N	1455	G	C2-N3-C4	-6.67	108.56	111.90
1	N	888	G	C4'-C3'-C2'	6.67	109.27	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	4	U	C5-C6-N1	6.67	126.04	122.70
1	N	162	A	C4-C5-C6	6.67	120.34	117.00
1	N	398	U	C2-N3-C4	6.67	131.00	127.00
1	N	402	G	C4-N9-C1'	-6.67	117.83	126.50
1	N	666	G	N7-C8-N9	6.67	116.44	113.10
1	N	1335	U	P-O3'-C3'	6.67	127.71	119.70
1	N	542	G	O4'-C1'-N9	6.67	113.54	108.20
1	N	908	A	C5-N7-C8	6.67	107.23	103.90
1	N	1475	G	N1-C6-O6	6.67	123.90	119.90
1	N	131	A	O4'-C1'-N9	6.67	113.53	108.20
1	N	748	G	N9-C4-C5	6.67	108.07	105.40
1	N	944	G	C5-C6-O6	-6.67	124.60	128.60
1	N	442	G	N1-C2-N3	-6.67	119.90	123.90
1	N	595	A	C4-C5-C6	6.67	120.33	117.00
1	N	1253	G	N3-C4-C5	6.67	131.93	128.60
1	N	676	A	C4-C5-C6	6.66	120.33	117.00
1	N	698	G	O4'-C1'-N9	6.66	113.53	108.20
1	N	1067	A	N1-C2-N3	6.66	132.63	129.30
1	N	361	G	N1-C6-O6	6.66	123.90	119.90
1	N	1243	C	N1-C2-N3	-6.66	114.54	119.20
1	N	99	C	C1'-O4'-C4'	6.66	115.23	109.90
1	N	1114	C	P-O5'-C5'	6.66	131.56	120.90
1	N	1457	G	C4-C5-C6	6.66	122.80	118.80
1	N	69	G	O4'-C1'-N9	6.66	113.53	108.20
1	N	227	G	C8-N9-C1'	6.66	135.66	127.00
1	N	265	G	C4'-C3'-C2'	-6.66	95.94	102.60
1	N	512	U	C5'-C4'-C3'	-6.66	105.34	116.00
1	N	1209	C	O4'-C1'-N1	6.66	113.53	108.20
1	N	1374	A	C4-C5-C6	6.66	120.33	117.00
1	N	1479	C	C2-N3-C4	6.66	123.23	119.90
1	N	240	G	C5-N7-C8	6.66	107.63	104.30
1	N	274	A	C4-N9-C1'	-6.66	114.32	126.30
1	N	427	U	C2-N3-C4	-6.66	123.01	127.00
1	N	210	C	C5-C6-N1	-6.66	117.67	121.00
1	N	1402	C	N3-C4-N4	6.66	122.66	118.00
1	N	50	A	C3'-C2'-C1'	-6.65	96.18	101.50
1	N	1193	G	O4'-C1'-N9	6.65	113.52	108.20
1	N	117	G	C4-C5-C6	6.65	122.79	118.80
1	N	247	G	N9-C4-C5	-6.65	102.74	105.40
1	N	449	G	P-O3'-C3'	-6.65	111.72	119.70
1	N	1333	A	C5-C6-N1	-6.65	114.37	117.70
1	N	271	C	C3'-C2'-C1'	-6.65	96.18	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1020	G	C4'-C3'-C2'	-6.65	95.95	102.60
1	N	1063	C	N3-C4-N4	6.65	122.66	118.00
1	N	1155	A	O4'-C1'-N9	6.65	113.52	108.20
1	N	1347	G	C2-N3-C4	6.65	115.22	111.90
1	N	1486	G	C4-C5-N7	6.65	113.46	110.80
1	N	488	C	O4'-C1'-N1	6.65	113.52	108.20
1	N	598	U	C5-C4-O4	6.65	129.89	125.90
1	N	1276	G	C6-C5-N7	-6.65	126.41	130.40
1	N	533	A	C5'-C4'-C3'	-6.65	105.37	116.00
1	N	1362	A	C4-C5-C6	6.65	120.32	117.00
1	N	1467	C	O4'-C1'-N1	6.65	113.52	108.20
1	N	43	C	C6-N1-C2	-6.64	117.64	120.30
1	N	600	A	N1-C2-N3	6.64	132.62	129.30
1	N	984	C	N1-C2-O2	-6.64	114.91	118.90
1	N	994	A	C5-C6-N1	-6.64	114.38	117.70
1	N	1147	C	N3-C4-N4	6.64	122.65	118.00
1	N	1346	A	C4-C5-C6	6.64	120.32	117.00
1	N	693	G	N1-C2-N2	-6.64	110.22	116.20
1	N	755	G	C4-C5-C6	6.64	122.78	118.80
1	N	1422	G	O3'-P-O5'	-6.64	91.38	104.00
1	N	1440	U	N3-C4-O4	6.64	124.05	119.40
1	N	67	C	C4'-C3'-C2'	-6.64	95.96	102.60
1	N	1062	U	C6-N1-C1'	-6.64	111.90	121.20
1	N	1129	C	O4'-C1'-C2'	6.64	113.58	107.60
1	N	1129	C	O4'-C1'-N1	6.64	113.51	108.20
1	N	823	C	C6-N1-C2	6.64	122.96	120.30
1	N	1310	G	N1-C2-N3	-6.64	119.92	123.90
1	N	1352	C	O4'-C1'-N1	6.64	113.51	108.20
1	N	245	U	N3-C2-O2	6.64	126.85	122.20
1	N	809	G	C6-C5-N7	-6.64	126.42	130.40
1	N	1068	G	C4-C5-N7	6.64	113.45	110.80
1	N	1219	A	P-O5'-C5'	6.64	131.52	120.90
1	N	15	G	O4'-C1'-N9	6.63	113.51	108.20
1	N	172	A	C1'-O4'-C4'	6.63	115.21	109.90
1	N	360	G	N3-C2-N2	6.63	124.55	119.90
1	N	823	C	C4-C5-C6	6.63	120.72	117.40
1	N	950	U	P-O5'-C5'	6.63	131.52	120.90
1	N	1304	G	N3-C2-N2	6.63	124.54	119.90
1	N	1367	C	N3-C4-C5	-6.63	119.25	121.90
1	N	743	A	C5-C6-N1	-6.63	114.38	117.70
1	N	1224	U	C6-N1-C1'	-6.63	111.91	121.20
1	N	1239	A	C5-C6-N1	-6.63	114.38	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	281	G	C4-C5-N7	6.63	113.45	110.80
1	N	369	G	N9-C4-C5	-6.63	102.75	105.40
1	N	932	C	C5-C6-N1	6.63	124.31	121.00
1	N	1022	A	P-O5'-C5'	-6.63	110.29	120.90
1	N	1268	G	C2-N3-C4	-6.63	108.58	111.90
1	N	1392	G	C8-N9-C1'	-6.63	118.38	127.00
1	N	89	U	P-O3'-C3'	6.63	127.66	119.70
1	N	188	C	N3-C4-N4	6.63	122.64	118.00
1	N	1110	A	C4'-C3'-C2'	6.63	109.23	102.60
1	N	351	G	C2-N3-C4	6.63	115.21	111.90
1	N	583	A	N7-C8-N9	-6.63	110.49	113.80
1	N	1155	A	C6-N1-C2	6.63	122.58	118.60
1	N	1312	G	N7-C8-N9	-6.63	109.79	113.10
1	N	646	G	N9-C4-C5	-6.63	102.75	105.40
1	N	651	C	C5'-C4'-C3'	-6.63	105.40	116.00
1	N	743	A	C6-C5-N7	-6.63	127.66	132.30
1	N	1208	C	C5'-C4'-C3'	-6.63	105.40	116.00
1	N	220	G	O4'-C1'-N9	6.62	113.50	108.20
1	N	294	U	O3'-P-O5'	-6.62	91.41	104.00
1	N	480	U	C3'-C2'-C1'	6.62	106.80	101.50
1	N	606	G	C4-C5-N7	6.62	113.45	110.80
1	N	1010	U	N3-C4-C5	-6.62	110.63	114.60
1	N	294	U	O4'-C1'-N1	6.62	113.50	108.20
1	N	26	A	C5'-C4'-O4'	6.62	117.04	109.10
1	N	1092	A	O4'-C1'-N9	6.62	113.50	108.20
1	N	56	U	N3-C4-C5	6.62	118.57	114.60
1	N	736	C	C6-N1-C2	-6.62	117.65	120.30
1	N	815	A	C4-C5-C6	6.62	120.31	117.00
1	N	1161	C	O4'-C1'-N1	6.62	113.49	108.20
1	N	1326	U	C6-N1-C1'	-6.62	111.94	121.20
1	N	1343	G	N1-C2-N2	6.62	122.15	116.20
1	N	718	A	C5-C6-N6	-6.61	118.41	123.70
1	N	741	G	N1-C6-O6	6.61	123.87	119.90
1	N	1392	G	C4-N9-C1'	6.61	135.10	126.50
1	N	1436	U	C2-N3-C4	6.61	130.97	127.00
1	N	1297	G	N3-C4-N9	-6.61	122.03	126.00
1	N	1530	G	O5'-C5'-C4'	6.61	124.26	111.70
1	N	283	U	C5'-C4'-C3'	-6.61	105.43	116.00
1	N	332	G	N7-C8-N9	6.61	116.40	113.10
1	N	220	G	N7-C8-N9	6.61	116.40	113.10
1	N	1270	G	C5-N7-C8	-6.61	101.00	104.30
1	N	129	A	O4'-C1'-N9	6.60	113.48	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1047	G	C2-N3-C4	6.60	115.20	111.90
1	N	377	G	C5-C6-N1	-6.60	108.20	111.50
1	N	741	G	N1-C2-N3	-6.60	119.94	123.90
1	N	823	C	N3-C4-N4	6.60	122.62	118.00
1	N	937	A	O4'-C1'-N9	6.60	113.48	108.20
1	N	728	A	C4-C5-C6	6.60	120.30	117.00
1	N	292	G	C2-N3-C4	6.60	115.20	111.90
1	N	624	C	C5-C6-N1	6.60	124.30	121.00
1	N	982	U	C3'-C2'-C1'	6.60	106.78	101.50
1	N	30	U	C6-N1-C2	-6.60	117.04	121.00
1	N	552	U	C6-N1-C2	-6.60	117.04	121.00
1	N	1122	U	C1'-O4'-C4'	-6.60	104.62	109.90
1	N	165	G	C5-C6-O6	-6.59	124.64	128.60
1	N	608	A	C8-N9-C4	-6.59	103.16	105.80
1	N	786	G	C5-N7-C8	6.59	107.60	104.30
1	N	1008	U	O4'-C1'-N1	6.59	113.48	108.20
1	N	1204	A	O4'-C1'-N9	6.59	113.47	108.20
1	N	495	A	O4'-C1'-N9	6.59	113.47	108.20
1	N	36	C	C6-N1-C2	-6.59	117.66	120.30
1	N	299	G	C4-C5-N7	-6.59	108.16	110.80
1	N	833	G	P-O3'-C3'	-6.59	111.79	119.70
1	N	907	A	N1-C6-N6	6.59	122.56	118.60
1	N	288	A	C5-C6-N6	-6.59	118.43	123.70
1	N	585	G	C6-C5-N7	-6.59	126.45	130.40
1	N	1002	G	C8-N9-C4	6.59	109.04	106.40
1	N	44	A	C5-C6-N1	-6.59	114.41	117.70
1	N	794	A	C5-N7-C8	6.59	107.19	103.90
1	N	892	A	C4'-C3'-C2'	-6.59	96.01	102.60
1	N	531	U	P-O3'-C3'	6.58	127.60	119.70
1	N	1357	A	C6-C5-N7	-6.58	127.69	132.30
1	N	800	G	C4-C5-N7	6.58	113.43	110.80
1	N	258	G	C6-N1-C2	6.58	129.05	125.10
1	N	747	A	P-O3'-C3'	6.58	127.60	119.70
1	N	763	G	C5-N7-C8	6.58	107.59	104.30
1	N	783	C	N1-C2-O2	6.58	122.85	118.90
1	N	364	A	P-O3'-C3'	6.58	127.60	119.70
1	N	717	U	N1-C2-N3	-6.58	110.95	114.90
1	N	172	A	C5-C6-N1	-6.58	114.41	117.70
1	N	379	C	N3-C4-C5	-6.58	119.27	121.90
1	N	1301	U	C5-C6-N1	6.58	125.99	122.70
1	N	1389	C	N3-C4-N4	6.58	122.60	118.00
1	N	664	G	C4'-C3'-C2'	-6.58	96.02	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1357	A	N9-C4-C5	-6.58	103.17	105.80
1	N	31	G	C5-C6-O6	-6.58	124.65	128.60
1	N	67	C	N3-C4-N4	6.58	122.60	118.00
1	N	880	C	N3-C4-C5	-6.58	119.27	121.90
1	N	927	G	O4'-C1'-N9	6.58	113.46	108.20
1	N	1171	A	C6-N1-C2	6.58	122.55	118.60
1	N	1219	A	C6-N1-C2	6.58	122.55	118.60
1	N	75	G	C5-C6-N1	-6.57	108.21	111.50
1	N	106	C	O4'-C1'-N1	6.57	113.46	108.20
1	N	187	G	O4'-C1'-N9	6.57	113.46	108.20
1	N	259	G	C2-N3-C4	6.57	115.19	111.90
1	N	330	C	C6-N1-C2	-6.57	117.67	120.30
1	N	831	A	C4'-C3'-C2'	-6.57	96.03	102.60
1	N	883	C	N3-C2-O2	6.57	126.50	121.90
1	N	190	A	C6-C5-N7	-6.57	127.70	132.30
1	N	849	G	C5-C6-N1	-6.57	108.21	111.50
1	N	911	U	O5'-P-OP2	6.57	118.59	110.70
1	N	262	A	C6-N1-C2	-6.57	114.66	118.60
1	N	677	U	C5-C4-O4	-6.57	121.96	125.90
1	N	741	G	O4'-C1'-N9	6.57	113.46	108.20
1	N	1077	G	C5-C6-O6	-6.57	124.66	128.60
1	N	1240	U	O4'-C1'-C2'	-6.57	99.23	105.80
1	N	1475	G	N7-C8-N9	6.57	116.39	113.10
1	N	335	C	C6-N1-C2	-6.57	117.67	120.30
1	N	481	G	C5-C6-N1	6.57	114.78	111.50
1	N	979	C	N3-C4-C5	-6.57	119.27	121.90
1	N	1052	U	N3-C4-O4	6.57	124.00	119.40
1	N	1158	C	N3-C4-C5	-6.57	119.27	121.90
1	N	1218	C	C4-C5-C6	6.57	120.68	117.40
1	N	1456	A	O4'-C1'-N9	6.57	113.45	108.20
1	N	1367	C	C2'-C3'-O3'	6.57	124.21	113.70
1	N	978	A	C5-N7-C8	6.56	107.18	103.90
1	N	73	C	C6-N1-C1'	6.56	128.68	120.80
1	N	243	A	N3-C4-N9	6.56	132.65	127.40
1	N	395	C	O4'-C1'-N1	6.56	113.45	108.20
1	N	446	G	C4-C5-N7	6.56	113.42	110.80
1	N	1292	G	C5-C6-N1	-6.56	108.22	111.50
1	N	1445	U	C5-C4-O4	-6.56	121.96	125.90
1	N	286	C	C5-C6-N1	6.56	124.28	121.00
1	N	835	U	N3-C2-O2	-6.56	117.61	122.20
1	N	843	U	O4'-C4'-C3'	-6.56	97.44	104.00
1	N	894	G	C5-C6-N1	-6.56	108.22	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1047	G	C6-N1-C2	6.56	129.04	125.10
1	N	1099	G	C4-C5-N7	6.56	113.42	110.80
1	N	381	C	O4'-C1'-N1	6.56	113.45	108.20
1	N	827	U	C3'-C2'-C1'	6.56	106.75	101.50
1	N	1114	C	C6-N1-C2	6.56	122.92	120.30
1	N	1533	C	N3-C4-C5	-6.56	119.28	121.90
1	N	514	C	N1-C2-N3	-6.56	114.61	119.20
1	N	615	G	C2-N3-C4	6.56	115.18	111.90
1	N	1496	C	O4'-C1'-N1	6.56	113.44	108.20
1	N	367	U	C2-N3-C4	-6.55	123.07	127.00
1	N	521	G	C4-N9-C1'	6.55	135.02	126.50
1	N	986	U	N1-C2-O2	-6.55	118.21	122.80
1	N	1140	C	O4'-C4'-C3'	6.55	111.34	106.10
1	N	1437	A	N1-C2-N3	6.55	132.58	129.30
1	N	443	C	C2-N3-C4	6.55	123.18	119.90
1	N	246	A	N1-C2-N3	6.55	132.58	129.30
1	N	937	A	C5-C6-N6	-6.55	118.46	123.70
1	N	39	G	P-O5'-C5'	-6.55	110.42	120.90
1	N	133	U	N1-C2-N3	-6.55	110.97	114.90
1	N	565	U	N3-C4-O4	-6.55	114.81	119.40
1	N	1502	A	N3-C4-N9	6.55	132.64	127.40
1	N	1020	G	N3-C2-N2	6.55	124.48	119.90
1	N	1043	G	C8-N9-C4	-6.55	103.78	106.40
1	N	1246	A	C5-C6-N6	-6.55	118.46	123.70
1	N	754	C	C4-C5-C6	6.55	120.67	117.40
1	N	758	C	N3-C4-N4	6.55	122.58	118.00
1	N	968	A	C4-C5-C6	6.55	120.27	117.00
1	N	972	C	C4-C5-C6	6.55	120.67	117.40
1	N	1329	A	C5'-C4'-O4'	6.55	116.96	109.10
1	N	1213	A	C6-C5-N7	-6.54	127.72	132.30
1	N	795	C	O4'-C1'-N1	6.54	113.44	108.20
1	N	915	A	C5-C6-N6	-6.54	118.47	123.70
1	N	273	U	N3-C4-C5	-6.54	110.67	114.60
1	N	453	G	C3'-C2'-C1'	6.54	106.73	101.50
1	N	671	G	N7-C8-N9	6.54	116.37	113.10
1	N	760	G	C2-N3-C4	6.54	115.17	111.90
1	N	765	G	N7-C8-N9	6.54	116.37	113.10
1	N	917	G	C5-C6-N1	-6.54	108.23	111.50
1	N	1023	U	N1-C2-N3	-6.54	110.97	114.90
1	N	1341	U	C5-C4-O4	-6.54	121.97	125.90
1	N	1015	G	C4-C5-C6	6.54	122.72	118.80
1	N	1428	A	C6-C5-N7	-6.54	127.72	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	151	A	N1-C2-N3	6.54	132.57	129.30
1	N	356	A	C2-N3-C4	-6.54	107.33	110.60
1	N	770	C	N3-C4-N4	6.54	122.58	118.00
1	N	710	G	C5-C6-N1	-6.54	108.23	111.50
1	N	854	U	C4-C5-C6	6.54	123.62	119.70
1	N	911	U	O5'-C5'-C4'	-6.54	99.28	111.70
1	N	963	G	C5-C6-N1	-6.54	108.23	111.50
1	N	1161	C	N1-C2-O2	6.54	122.82	118.90
1	N	1247	U	N3-C4-C5	-6.54	110.68	114.60
1	N	1451	U	C5-C4-O4	6.54	129.82	125.90
1	N	1494	G	N1-C2-N2	6.54	122.08	116.20
1	N	141	G	C4-C5-C6	6.53	122.72	118.80
1	N	392	C	C6-N1-C1'	-6.53	112.96	120.80
1	N	881	G	O4'-C1'-N9	6.53	113.43	108.20
1	N	1156	G	C5-N7-C8	6.53	107.57	104.30
1	N	70	U	C4-C5-C6	6.53	123.62	119.70
1	N	129	A	N3-C4-N9	-6.53	122.17	127.40
1	N	578	C	C5'-C4'-C3'	6.53	126.45	116.00
1	N	1433	A	C5-C6-N1	-6.53	114.43	117.70
1	N	3	A	C5-N7-C8	6.53	107.17	103.90
1	N	8	A	O4'-C1'-N9	6.53	113.42	108.20
1	N	119	A	N1-C2-N3	6.53	132.56	129.30
1	N	247	G	N1-C2-N3	-6.53	119.98	123.90
1	N	1001	C	C5-C6-N1	6.53	124.27	121.00
1	N	1331	G	P-O5'-C5'	6.53	131.35	120.90
1	N	610	U	O4'-C1'-N1	6.53	113.42	108.20
1	N	1109	C	N3-C4-N4	6.53	122.57	118.00
1	N	775	G	C5-C6-O6	-6.53	124.68	128.60
1	N	828	U	C5-C4-O4	-6.53	121.98	125.90
1	N	1366	C	N3-C2-O2	6.53	126.47	121.90
1	N	1490	U	OP1-P-OP2	-6.53	109.81	119.60
1	N	230	G	P-O3'-C3'	-6.53	111.87	119.70
1	N	873	A	C6-C5-N7	-6.53	127.73	132.30
1	N	1034	G	N3-C2-N2	6.53	124.47	119.90
1	N	489	C	P-O3'-C3'	6.52	127.53	119.70
1	N	1383	C	C3'-C2'-C1'	6.52	106.72	101.50
1	N	1508	A	C4-C5-C6	6.52	120.26	117.00
1	N	734	G	N3-C4-N9	6.52	129.91	126.00
1	N	932	C	P-O5'-C5'	6.52	131.33	120.90
1	N	1527	U	O4'-C1'-N1	6.52	113.42	108.20
1	N	383	A	N1-C6-N6	6.52	122.51	118.60
1	N	673	A	P-O5'-C5'	-6.52	110.47	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	684	U	O4'-C1'-N1	6.52	113.42	108.20
1	N	709	U	C2-N3-C4	-6.52	123.09	127.00
1	N	733	G	C1'-O4'-C4'	-6.52	104.69	109.90
1	N	815	A	C5-N7-C8	6.52	107.16	103.90
1	N	1348	U	C1'-O4'-C4'	6.52	115.11	109.90
1	N	80	A	C1'-O4'-C4'	6.52	115.11	109.90
1	N	564	C	N3-C4-C5	-6.52	119.29	121.90
1	N	657	U	N3-C4-C5	-6.52	110.69	114.60
1	N	1081	A	C4-C5-C6	6.52	120.26	117.00
1	N	1088	G	N3-C4-C5	6.52	131.86	128.60
1	N	164	G	N1-C6-O6	6.52	123.81	119.90
1	N	541	G	O4'-C1'-N9	6.52	113.41	108.20
1	N	1276	G	N1-C6-O6	6.52	123.81	119.90
1	N	1300	G	N3-C4-N9	-6.52	122.09	126.00
1	N	155	A	N1-C6-N6	6.51	122.51	118.60
1	N	180	U	O4'-C1'-N1	6.51	113.41	108.20
1	N	668	G	C8-N9-C1'	-6.51	118.53	127.00
1	N	49	U	O4'-C1'-N1	6.51	113.41	108.20
1	N	944	G	N7-C8-N9	6.51	116.36	113.10
1	N	1334	G	C6-C5-N7	-6.51	126.49	130.40
1	N	226	G	N3-C4-C5	6.51	131.86	128.60
1	N	661	G	C5-C6-N1	-6.51	108.25	111.50
1	N	869	G	C5'-C4'-O4'	6.51	116.91	109.10
1	N	1488	G	C5-N7-C8	-6.51	101.04	104.30
1	N	1507	A	C5-N7-C8	6.51	107.16	103.90
1	N	221	C	O4'-C1'-N1	6.51	113.41	108.20
1	N	481	G	N7-C8-N9	-6.51	109.84	113.10
1	N	688	G	N3-C4-C5	6.51	131.85	128.60
1	N	778	G	C5-C6-N1	-6.51	108.25	111.50
1	N	974	A	C3'-C2'-C1'	6.51	106.71	101.50
1	N	1185	G	N1-C6-O6	6.51	123.81	119.90
1	N	453	G	N1-C2-N3	-6.51	120.00	123.90
1	N	955	U	C2-N1-C1'	6.51	125.51	117.70
1	N	849	G	C5'-C4'-C3'	-6.51	105.59	116.00
1	N	431	A	N1-C6-N6	6.50	122.50	118.60
1	N	392	C	C2-N1-C1'	6.50	125.95	118.80
1	N	496	A	C4-C5-C6	6.50	120.25	117.00
1	N	56	U	C5-C4-O4	-6.50	122.00	125.90
1	N	891	U	O4'-C4'-C3'	-6.50	97.50	104.00
1	N	372	C	N3-C4-C5	-6.50	119.30	121.90
1	N	335	C	C2-N1-C1'	6.50	125.95	118.80
1	N	411	A	N7-C8-N9	6.50	117.05	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	147	G	N7-C8-N9	-6.50	109.85	113.10
1	N	303	A	N1-C6-N6	6.50	122.50	118.60
1	N	474	G	C6-C5-N7	-6.50	126.50	130.40
1	N	799	G	C2-N3-C4	-6.50	108.65	111.90
1	N	265	G	C8-N9-C1'	6.49	135.44	127.00
1	N	366	A	N3-C4-C5	-6.49	122.25	126.80
1	N	506	G	P-O3'-C3'	6.49	127.49	119.70
1	N	843	U	P-O3'-C3'	-6.49	111.91	119.70
1	N	1092	A	C6-N1-C2	-6.49	114.70	118.60
1	N	1226	C	O4'-C1'-N1	6.49	113.39	108.20
1	N	148	G	C3'-C2'-C1'	-6.49	96.31	101.50
1	N	184	G	C6-C5-N7	-6.49	126.51	130.40
1	N	1111	A	C2-N3-C4	-6.49	107.35	110.60
1	N	17	U	P-O3'-C3'	6.49	127.49	119.70
1	N	901	A	C2-N3-C4	6.49	113.84	110.60
1	N	360	G	N3-C4-C5	-6.49	125.36	128.60
1	N	968	A	C5-C6-N6	-6.49	118.51	123.70
1	N	391	G	C5-C6-O6	-6.49	124.71	128.60
1	N	391	G	C6-C5-N7	-6.49	126.51	130.40
1	N	1107	C	P-O3'-C3'	-6.48	111.92	119.70
1	N	39	G	N3-C2-N2	6.48	124.44	119.90
1	N	190	A	C2-N3-C4	-6.48	107.36	110.60
1	N	950	U	N1-C2-O2	-6.48	118.26	122.80
1	N	28	A	N7-C8-N9	-6.48	110.56	113.80
1	N	737	C	P-O5'-C5'	6.48	131.27	120.90
1	N	1004	A	C8-N9-C4	6.48	108.39	105.80
1	N	1503	A	C6-C5-N7	-6.48	127.76	132.30
1	N	393	A	C5-C6-N1	-6.48	114.46	117.70
1	N	830	G	N9-C4-C5	-6.48	102.81	105.40
1	N	955	U	C6-N1-C1'	-6.48	112.13	121.20
1	N	1243	C	C2-N3-C4	6.48	123.14	119.90
1	N	1418	A	C5-C6-N6	-6.48	118.52	123.70
1	N	58	C	N3-C4-N4	6.48	122.53	118.00
1	N	273	U	C1'-O4'-C4'	6.48	115.08	109.90
1	N	404	G	C5-C6-O6	-6.48	124.71	128.60
1	N	1388	C	N3-C4-C5	-6.48	119.31	121.90
1	N	1422	G	C6-C5-N7	-6.48	126.51	130.40
1	N	1502	A	N1-C2-N3	6.48	132.54	129.30
1	N	906	A	C5-C6-N6	-6.47	118.52	123.70
1	N	1230	C	C5-C6-N1	6.47	124.24	121.00
1	N	1363	A	C4-C5-C6	6.47	120.24	117.00
1	N	1517	G	C3'-C2'-C1'	-6.47	96.32	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	103	U	N1-C2-O2	6.47	127.33	122.80
1	N	105	G	C4-C5-C6	6.47	122.68	118.80
1	N	200	G	C4-C5-N7	6.47	113.39	110.80
1	N	1016	A	C8-N9-C4	-6.47	103.21	105.80
1	N	1036	A	N3-C4-C5	-6.47	122.27	126.80
1	N	1244	G	C4-C5-N7	6.47	113.39	110.80
1	N	19	A	N1-C2-N3	-6.47	126.06	129.30
1	N	585	G	N1-C2-N2	6.47	122.02	116.20
1	N	1300	G	C4-C5-N7	-6.47	108.21	110.80
1	N	1465	A	N1-C2-N3	-6.47	126.07	129.30
1	N	728	A	C5-C6-N6	-6.47	118.53	123.70
1	N	767	A	P-O3'-C3'	6.47	127.46	119.70
1	N	1268	G	P-O3'-C3'	6.47	127.46	119.70
1	N	324	G	C8-N9-C4	-6.47	103.81	106.40
1	N	331	G	N1-C6-O6	6.47	123.78	119.90
1	N	447	G	C6-N1-C2	6.47	128.98	125.10
1	N	848	C	O4'-C1'-N1	6.47	113.37	108.20
1	N	855	U	N1-C2-O2	6.47	127.33	122.80
1	N	894	G	C2-N3-C4	6.47	115.13	111.90
1	N	928	G	P-O5'-C5'	6.47	131.25	120.90
1	N	1510	C	C2-N1-C1'	6.47	125.91	118.80
1	N	149	A	N1-C6-N6	6.46	122.48	118.60
1	N	393	A	C2-N3-C4	-6.46	107.37	110.60
1	N	1053	G	C5-C6-O6	-6.46	124.72	128.60
1	N	1337	G	N7-C8-N9	6.46	116.33	113.10
1	N	514	C	O4'-C1'-N1	6.46	113.37	108.20
1	N	1252	A	N3-C4-C5	-6.46	122.28	126.80
1	N	1365	G	C6-N1-C2	-6.46	121.22	125.10
1	N	117	G	C8-N9-C4	-6.46	103.81	106.40
1	N	216	U	N3-C2-O2	6.46	126.72	122.20
1	N	292	G	C1'-O4'-C4'	6.46	115.07	109.90
1	N	545	C	C5-C6-N1	6.46	124.23	121.00
1	N	1273	C	N3-C4-N4	6.46	122.52	118.00
1	N	56	U	C2-N3-C4	-6.46	123.12	127.00
1	N	108	G	C4'-C3'-C2'	-6.46	96.14	102.60
1	N	221	C	N3-C4-C5	-6.46	119.32	121.90
1	N	623	C	N1-C2-O2	-6.46	115.02	118.90
1	N	1385	G	C4-C5-C6	6.46	122.68	118.80
1	N	1386	G	N3-C4-C5	6.46	131.83	128.60
1	N	48	C	C3'-C2'-C1'	6.46	106.67	101.50
1	N	246	A	C5-C6-N6	-6.46	118.53	123.70
1	N	292	G	C5'-C4'-O4'	6.46	116.85	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1024	G	N3-C2-N2	6.46	124.42	119.90
1	N	1352	C	C4'-C3'-C2'	-6.46	96.14	102.60
1	N	1456	A	C6-C5-N7	-6.46	127.78	132.30
1	N	508	U	N3-C4-O4	6.46	123.92	119.40
1	N	809	G	O4'-C1'-N9	6.46	113.36	108.20
1	N	988	G	C3'-C2'-C1'	6.46	106.67	101.50
1	N	1143	G	C4'-C3'-C2'	-6.46	96.14	102.60
1	N	1345	U	C5-C6-N1	6.46	125.93	122.70
1	N	358	U	C2-N3-C4	-6.46	123.13	127.00
1	N	473	U	N1-C2-N3	-6.46	111.03	114.90
1	N	560	A	C4'-C3'-C2'	6.46	109.06	102.60
1	N	1175	G	O4'-C1'-N9	6.46	113.36	108.20
1	N	154	U	O4'-C1'-N1	6.45	113.36	108.20
1	N	527	G	C8-N9-C1'	6.45	135.39	127.00
1	N	889	A	C5-C6-N6	-6.45	118.54	123.70
1	N	1153	G	N3-C4-C5	-6.45	125.37	128.60
1	N	1484	C	O4'-C1'-N1	6.45	113.36	108.20
1	N	111	G	N3-C4-C5	6.45	131.83	128.60
1	N	466	A	C5-C6-N6	-6.45	118.54	123.70
1	N	90	C	N1-C2-O2	6.45	122.77	118.90
1	N	176	C	P-O3'-C3'	6.45	127.44	119.70
1	N	195	A	N7-C8-N9	-6.45	110.58	113.80
1	N	1258	G	C5-C6-O6	-6.45	124.73	128.60
1	N	1514	G	C8-N9-C1'	6.45	135.39	127.00
1	N	449	G	C5-C6-O6	-6.45	124.73	128.60
1	N	502	A	C4'-C3'-C2'	-6.45	96.15	102.60
1	N	624	C	N1-C2-O2	-6.45	115.03	118.90
1	N	1018	G	C6-C5-N7	-6.45	126.53	130.40
1	N	1317	C	C3'-C2'-C1'	6.45	106.66	101.50
1	N	1467	C	N3-C4-C5	-6.45	119.32	121.90
1	N	539	A	N3-C4-C5	-6.45	122.29	126.80
1	N	1452	C	N3-C4-N4	6.45	122.51	118.00
1	N	78	A	N3-C4-C5	-6.44	122.29	126.80
1	N	391	G	C5-C6-N1	-6.44	108.28	111.50
1	N	1503	A	O4'-C1'-N9	6.44	113.35	108.20
1	N	123	U	C5'-C4'-C3'	6.44	126.30	116.00
1	N	1305	G	C5-C6-N1	-6.44	108.28	111.50
1	N	1003	G	N3-C2-N2	6.44	124.41	119.90
1	N	1281	C	C1'-O4'-C4'	6.44	115.05	109.90
1	N	1365	G	N1-C2-N3	-6.44	120.04	123.90
1	N	300	A	O4'-C1'-N9	6.44	113.35	108.20
1	N	143	A	N3-C4-C5	-6.43	122.30	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1222	G	O4'-C1'-N9	6.43	113.35	108.20
1	N	841	C	C2-N1-C1'	6.43	125.88	118.80
1	N	240	G	C4'-C3'-C2'	-6.43	96.17	102.60
1	N	1242	G	N1-C2-N3	-6.43	120.04	123.90
1	N	88	U	N3-C4-C5	-6.43	110.74	114.60
1	N	370	C	C2-N3-C4	6.43	123.11	119.90
1	N	531	U	O5'-C5'-C4'	6.43	123.92	111.70
1	N	872	A	C5-C6-N1	-6.43	114.48	117.70
1	N	976	G	P-O3'-C3'	-6.43	111.98	119.70
1	N	1321	U	O4'-C1'-N1	6.43	113.34	108.20
1	N	339	C	O4'-C1'-N1	6.43	113.34	108.20
1	N	323	U	C4-C5-C6	-6.43	115.84	119.70
1	N	461	A	C6-N1-C2	-6.43	114.75	118.60
1	N	859	G	C6-C5-N7	-6.43	126.54	130.40
1	N	1502	A	N1-C6-N6	6.43	122.45	118.60
1	N	522	C	N3-C4-N4	6.42	122.50	118.00
1	N	1013	G	C6-N1-C2	6.42	128.96	125.10
1	N	1162	C	C5-C4-N4	-6.42	115.70	120.20
1	N	369	G	O4'-C1'-N9	6.42	113.34	108.20
1	N	1515	G	N7-C8-N9	6.42	116.31	113.10
1	N	532	A	N1-C6-N6	6.42	122.45	118.60
1	N	292	G	C8-N9-C4	-6.42	103.83	106.40
1	N	542	G	C6-C5-N7	-6.42	126.55	130.40
1	N	670	G	N1-C2-N3	-6.42	120.05	123.90
1	N	836	G	C5-C6-N1	-6.42	108.29	111.50
1	N	1389	C	C5'-C4'-O4'	6.42	116.80	109.10
1	N	221	C	O4'-C4'-C3'	-6.42	97.58	104.00
1	N	1014	A	N7-C8-N9	-6.42	110.59	113.80
1	N	126	G	C3'-C2'-C1'	6.42	106.63	101.50
1	N	785	G	P-O3'-C3'	-6.42	112.00	119.70
1	N	1437	A	C4-C5-C6	6.42	120.21	117.00
1	N	362	G	P-O3'-C3'	6.41	127.40	119.70
1	N	597	G	C5-C6-N1	6.41	114.71	111.50
1	N	686	U	N3-C2-O2	-6.41	117.71	122.20
1	N	868	C	N3-C4-N4	6.41	122.49	118.00
1	N	1163	A	N3-C4-C5	-6.41	122.31	126.80
1	N	1360	A	C8-N9-C4	-6.41	103.23	105.80
1	N	586	C	N1-C2-O2	-6.41	115.05	118.90
1	N	158	G	C8-N9-C4	-6.41	103.83	106.40
1	N	414	A	C2-N3-C4	-6.41	107.39	110.60
1	N	1497	G	N1-C2-N2	6.41	121.97	116.20
1	N	140	U	N3-C2-O2	6.41	126.69	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1093	A	C4-C5-C6	6.41	120.20	117.00
1	N	627	G	C3'-C2'-C1'	-6.41	96.38	101.50
1	N	968	A	O4'-C1'-C2'	-6.41	99.39	105.80
1	N	1164	G	N3-C2-N2	6.41	124.39	119.90
1	N	136	C	C6-N1-C2	-6.41	117.74	120.30
1	N	514	C	N3-C2-O2	6.41	126.38	121.90
1	N	561	U	N3-C4-C5	-6.41	110.76	114.60
1	N	769	G	N1-C6-O6	6.41	123.74	119.90
1	N	1244	G	N3-C4-C5	6.41	131.80	128.60
1	N	1252	A	N3-C4-N9	6.41	132.53	127.40
1	N	1488	G	O4'-C1'-N9	6.41	113.32	108.20
1	N	293	G	N1-C2-N2	-6.40	110.44	116.20
1	N	127	G	O4'-C4'-C3'	-6.40	97.60	104.00
1	N	954	G	C4-C5-C6	6.40	122.64	118.80
1	N	66	A	C4-C5-N7	-6.40	107.50	110.70
1	N	199	A	C2-N3-C4	-6.40	107.40	110.60
1	N	845	A	N3-C4-C5	-6.40	122.32	126.80
1	N	966	G	C5-C6-O6	-6.40	124.76	128.60
1	N	1208	C	O4'-C1'-N1	6.40	113.32	108.20
1	N	474	G	N7-C8-N9	6.40	116.30	113.10
1	N	909	A	C8-N9-C4	-6.40	103.24	105.80
1	N	378	G	N9-C4-C5	-6.40	102.84	105.40
1	N	919	A	C6-C5-N7	-6.40	127.82	132.30
1	N	1426	G	O4'-C1'-N9	6.40	113.32	108.20
1	N	283	U	N3-C4-O4	6.39	123.88	119.40
1	N	472	U	C4-C5-C6	6.39	123.54	119.70
1	N	1055	A	C4-C5-C6	6.39	120.20	117.00
1	N	1068	G	P-O5'-C5'	-6.39	110.67	120.90
1	N	1261	A	O4'-C1'-N9	6.39	113.32	108.20
1	N	597	G	N9-C4-C5	-6.39	102.84	105.40
1	N	681	A	C6-N1-C2	-6.39	114.77	118.60
1	N	814	A	C4-C5-C6	6.39	120.20	117.00
1	N	1156	G	C5-C6-O6	-6.39	124.76	128.60
1	N	1324	A	N3-C4-N9	-6.39	122.29	127.40
1	N	634	C	N3-C4-C5	-6.39	119.34	121.90
1	N	771	G	C4-C5-N7	6.39	113.36	110.80
1	N	1160	G	N9-C1'-C2'	-6.39	104.97	112.00
1	N	1267	C	O4'-C1'-N1	6.39	113.31	108.20
1	N	377	G	P-O5'-C5'	6.39	131.12	120.90
1	N	833	G	N3-C4-C5	6.39	131.79	128.60
1	N	945	G	C8-N9-C4	-6.39	103.84	106.40
1	N	606	G	C2-N3-C4	6.39	115.09	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1050	G	O4'-C1'-N9	6.39	113.31	108.20
1	N	416	G	N3-C2-N2	6.39	124.37	119.90
1	N	454	G	N3-C4-N9	-6.39	122.17	126.00
1	N	357	G	C6-C5-N7	-6.38	126.57	130.40
1	N	753	A	C5-C6-N1	-6.38	114.51	117.70
1	N	1455	G	C5'-C4'-C3'	-6.38	105.79	116.00
1	N	946	A	N1-C6-N6	6.38	122.43	118.60
1	N	605	U	C3'-C2'-C1'	6.38	106.61	101.50
1	N	1004	A	C4'-C3'-C2'	6.38	108.98	102.60
1	N	556	C	N1-C2-O2	-6.38	115.07	118.90
1	N	1428	A	N7-C8-N9	-6.38	110.61	113.80
1	N	138	G	N9-C4-C5	6.38	107.95	105.40
1	N	767	A	O4'-C1'-N9	6.38	113.30	108.20
1	N	716	A	O4'-C1'-N9	6.38	113.30	108.20
1	N	1297	G	N3-C2-N2	6.38	124.36	119.90
1	N	227	G	C5-N7-C8	6.38	107.49	104.30
1	N	483	C	C5'-C4'-O4'	6.38	116.75	109.10
1	N	500	G	C6-C5-N7	-6.38	126.58	130.40
1	N	773	G	N9-C4-C5	6.37	107.95	105.40
1	N	215	C	P-O5'-C5'	6.37	131.09	120.90
1	N	1151	A	C3'-C2'-C1'	6.37	106.60	101.50
1	N	675	A	C5-C6-N1	-6.37	114.52	117.70
1	N	1350	A	N3-C4-C5	-6.37	122.34	126.80
1	N	70	U	C2-N1-C1'	6.37	125.34	117.70
1	N	1248	A	C3'-C2'-C1'	6.37	106.60	101.50
1	N	1305	G	C8-N9-C4	6.37	108.95	106.40
1	N	107	G	O4'-C1'-N9	6.37	113.29	108.20
1	N	731	G	N3-C4-N9	-6.37	122.18	126.00
1	N	995	C	N3-C4-C5	-6.37	119.35	121.90
1	N	1105	A	C5-N7-C8	6.37	107.08	103.90
1	N	1041	G	O3'-P-O5'	-6.36	91.91	104.00
1	N	1454	G	C5'-C4'-C3'	-6.36	105.82	116.00
1	N	757	U	C4'-C3'-C2'	-6.36	96.24	102.60
1	N	836	G	C6-N1-C2	6.36	128.92	125.10
1	N	557	G	N3-C2-N2	6.36	124.35	119.90
1	N	1460	C	C5-C4-N4	-6.36	115.75	120.20
1	N	1372	U	N3-C4-C5	6.36	118.41	114.60
1	N	1484	C	C5-C4-N4	-6.36	115.75	120.20
1	N	78	A	C4-C5-C6	6.36	120.18	117.00
1	N	458	U	O4'-C1'-N1	6.36	113.28	108.20
1	N	661	G	N1-C2-N2	6.36	121.92	116.20
1	N	1432	G	P-O5'-C5'	6.36	131.07	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	163	C	N3-C4-C5	-6.35	119.36	121.90
1	N	546	A	N1-C2-N3	6.35	132.48	129.30
1	N	584	G	C2'-C3'-O3'	6.35	123.86	113.70
1	N	779	C	C2-N1-C1'	6.35	125.79	118.80
1	N	1288	A	N1-C2-N3	6.35	132.48	129.30
1	N	1294	G	C5-C6-O6	-6.35	124.79	128.60
1	N	1404	C	O4'-C1'-N1	6.35	113.28	108.20
1	N	200	G	N3-C4-N9	6.35	129.81	126.00
1	N	718	A	N1-C2-N3	6.35	132.48	129.30
1	N	746	A	N9-C4-C5	6.35	108.34	105.80
1	N	1413	A	C4'-C3'-C2'	-6.35	96.25	102.60
1	N	1518	A	N9-C4-C5	-6.35	103.26	105.80
1	N	411	A	N9-C4-C5	6.35	108.34	105.80
1	N	465	A	N1-C2-N3	6.35	132.47	129.30
1	N	813	U	N3-C4-C5	-6.35	110.79	114.60
1	N	944	G	N3-C2-N2	6.35	124.34	119.90
1	N	955	U	C5-C4-O4	-6.35	122.09	125.90
1	N	1098	C	C5-C4-N4	-6.35	115.76	120.20
1	N	38	G	C2-N3-C4	6.35	115.07	111.90
1	N	299	G	C5-N7-C8	6.35	107.47	104.30
1	N	496	A	C5-C6-N6	-6.35	118.62	123.70
1	N	503	C	C4-C5-C6	-6.35	114.23	117.40
1	N	581	G	N1-C6-O6	6.35	123.71	119.90
1	N	55	A	C6-N1-C2	6.35	122.41	118.60
1	N	924	C	N3-C2-O2	6.35	126.34	121.90
1	N	1375	A	C5-C6-N1	-6.35	114.53	117.70
1	N	238	A	C5-C6-N1	-6.34	114.53	117.70
1	N	686	U	C2-N3-C4	-6.34	123.19	127.00
1	N	874	G	C4-C5-C6	6.34	122.61	118.80
1	N	1002	G	C5-C6-O6	-6.34	124.79	128.60
1	N	1143	G	C6-C5-N7	-6.34	126.59	130.40
1	N	1144	G	N3-C4-C5	6.34	131.77	128.60
1	N	753	A	C5-C6-N6	-6.34	118.63	123.70
1	N	1215	G	C6-C5-N7	-6.34	126.59	130.40
1	N	77	A	C6-N1-C2	6.34	122.41	118.60
1	N	98	A	C5-C6-N6	-6.34	118.63	123.70
1	N	171	A	C8-N9-C1'	-6.34	116.28	127.70
1	N	403	C	N1-C2-N3	-6.34	114.76	119.20
1	N	479	U	C5'-C4'-C3'	-6.34	105.86	116.00
1	N	596	A	N9-C4-C5	6.34	108.34	105.80
1	N	783	C	C6-N1-C2	-6.34	117.76	120.30
1	N	544	G	C5'-C4'-O4'	6.34	116.71	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	760	G	C5'-C4'-O4'	6.34	116.71	109.10
1	N	970	C	C5-C6-N1	6.34	124.17	121.00
1	N	417	G	C5-C6-N1	-6.34	108.33	111.50
1	N	1192	C	C6-N1-C2	-6.34	117.77	120.30
1	N	80	A	N7-C8-N9	6.33	116.97	113.80
1	N	454	G	N9-C4-C5	6.33	107.93	105.40
1	N	787	A	C6-N1-C2	6.33	122.40	118.60
1	N	666	G	C5-N7-C8	-6.33	101.13	104.30
1	N	749	A	O4'-C1'-N9	6.33	113.27	108.20
1	N	1060	U	C1'-O4'-C4'	-6.33	104.83	109.90
1	N	1164	G	C2-N3-C4	6.33	115.07	111.90
1	N	1204	A	C5-C6-N6	-6.33	118.63	123.70
1	N	112	G	P-O3'-C3'	-6.33	112.10	119.70
1	N	396	C	O4'-C1'-N1	6.33	113.27	108.20
1	N	893	C	O4'-C1'-N1	6.33	113.27	108.20
1	N	167	A	C4-C5-N7	-6.33	107.53	110.70
1	N	1180	A	C4-C5-C6	6.33	120.17	117.00
1	N	86	G	C8-N9-C4	-6.33	103.87	106.40
1	N	276	G	C5-C6-O6	-6.33	124.80	128.60
1	N	563	A	N3-C4-C5	-6.33	122.37	126.80
1	N	709	U	P-O3'-C3'	6.33	127.29	119.70
1	N	734	G	P-O3'-C3'	6.33	127.29	119.70
1	N	1260	G	P-O5'-C5'	6.33	131.03	120.90
1	N	352	C	C6-N1-C2	-6.33	117.77	120.30
1	N	568	G	N3-C2-N2	6.33	124.33	119.90
1	N	698	G	C4-C5-N7	6.33	113.33	110.80
1	N	203	G	P-O5'-C5'	-6.33	110.78	120.90
1	N	462	G	O4'-C1'-N9	6.33	113.26	108.20
1	N	1483	A	C4-C5-C6	6.33	120.16	117.00
1	N	1486	G	C2-N3-C4	6.33	115.06	111.90
1	N	394	G	N9-C4-C5	-6.32	102.87	105.40
1	N	656	G	N1-C2-N2	6.32	121.89	116.20
1	N	914	A	N9-C4-C5	6.32	108.33	105.80
1	N	646	G	C8-N9-C4	6.32	108.93	106.40
1	N	1397	C	P-O3'-C3'	6.32	127.29	119.70
1	N	1012	A	C3'-C2'-C1'	-6.32	96.44	101.50
1	N	1442	G	C6-C5-N7	-6.32	126.61	130.40
1	N	91	U	C6-N1-C2	-6.32	117.21	121.00
1	N	125	U	C4'-C3'-C2'	-6.32	96.28	102.60
1	N	1204	A	C4-C5-N7	-6.32	107.54	110.70
1	N	457	G	N3-C2-N2	6.32	124.32	119.90
1	N	494	G	C5-N7-C8	-6.32	101.14	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	597	G	O4'-C4'-C3'	-6.32	97.68	104.00
1	N	955	U	N3-C4-O4	6.32	123.82	119.40
1	N	63	C	C5-C4-N4	-6.32	115.78	120.20
1	N	333	U	N3-C4-C5	-6.32	110.81	114.60
1	N	573	A	C8-N9-C4	6.32	108.33	105.80
1	N	865	A	C5-C6-N6	-6.32	118.65	123.70
1	N	888	G	N3-C2-N2	6.32	124.32	119.90
1	N	1078	U	C6-N1-C1'	-6.32	112.36	121.20
1	N	859	G	O4'-C4'-C3'	-6.31	97.69	104.00
1	N	357	G	C8-N9-C4	-6.31	103.88	106.40
1	N	1025	U	P-O3'-C3'	6.31	127.27	119.70
1	N	1070	U	N3-C2-O2	-6.31	117.78	122.20
1	N	40	C	O4'-C1'-N1	6.31	113.25	108.20
1	N	1349	A	C1'-O4'-C4'	6.31	114.95	109.90
1	N	546	A	C4-C5-C6	6.31	120.15	117.00
1	N	661	G	C6-N1-C2	6.31	128.89	125.10
1	N	1001	C	N3-C4-C5	-6.31	119.38	121.90
1	N	1136	C	C6-N1-C2	-6.31	117.78	120.30
1	N	1254	A	N7-C8-N9	6.31	116.95	113.80
1	N	1422	G	O4'-C1'-N9	6.31	113.25	108.20
1	N	443	C	C5-C6-N1	-6.31	117.85	121.00
1	N	499	A	P-O5'-C5'	-6.31	110.81	120.90
1	N	848	C	N3-C4-N4	6.31	122.42	118.00
1	N	1503	A	N3-C4-C5	-6.31	122.39	126.80
1	N	472	U	C5'-C4'-O4'	6.31	116.67	109.10
1	N	714	G	C5-C6-O6	-6.31	124.82	128.60
1	N	843	U	N1-C1'-C2'	-6.31	105.06	112.00
1	N	1334	G	C4-C5-N7	6.31	113.32	110.80
1	N	276	G	C4'-C3'-C2'	-6.30	96.30	102.60
1	N	559	A	O4'-C1'-N9	6.30	113.24	108.20
1	N	790	A	P-O3'-C3'	6.30	127.27	119.70
1	N	1357	A	C4-C5-C6	6.30	120.15	117.00
1	N	587	G	C8-N9-C4	-6.30	103.88	106.40
1	N	171	A	C4-N9-C1'	6.30	137.64	126.30
1	N	879	C	C6-N1-C2	6.30	122.82	120.30
1	N	1288	A	O4'-C1'-N9	6.30	113.24	108.20
1	N	937	A	N1-C2-N3	6.30	132.45	129.30
1	N	1282	C	C5'-C4'-O4'	-6.30	101.54	109.10
1	N	1431	A	C5-C6-N1	-6.30	114.55	117.70
1	N	14	U	C2-N3-C4	6.30	130.78	127.00
1	N	848	C	P-O3'-C3'	6.30	127.26	119.70
1	N	855	U	N1-C2-N3	-6.30	111.12	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1459	G	N9-C1'-C2'	-6.30	105.07	112.00
1	N	425	G	C6-C5-N7	-6.30	126.62	130.40
1	N	628	G	N3-C4-C5	-6.30	125.45	128.60
1	N	685	G	O4'-C1'-N9	6.30	113.24	108.20
1	N	1289	A	C6-N1-C2	-6.30	114.82	118.60
1	N	45	G	C4-C5-N7	-6.29	108.28	110.80
1	N	411	A	O4'-C1'-N9	6.29	113.24	108.20
1	N	830	G	C8-N9-C4	6.29	108.92	106.40
1	N	140	U	N3-C4-O4	6.29	123.81	119.40
1	N	200	G	C6-C5-N7	-6.29	126.62	130.40
1	N	452	A	P-O5'-C5'	-6.29	110.83	120.90
1	N	1303	C	C5'-C4'-O4'	-6.29	101.55	109.10
1	N	27	G	N1-C6-O6	6.29	123.67	119.90
1	N	1289	A	N9-C4-C5	-6.29	103.28	105.80
1	N	1490	U	N1-C2-O2	-6.29	118.39	122.80
1	N	594	U	C6-N1-C2	-6.29	117.23	121.00
1	N	138	G	C5-C6-N1	-6.29	108.36	111.50
1	N	269	C	C4-C5-C6	6.29	120.54	117.40
1	N	819	A	C3'-C2'-C1'	6.29	106.53	101.50
1	N	904	U	N3-C4-O4	6.29	123.80	119.40
1	N	1047	G	C5-C6-N1	-6.29	108.36	111.50
1	N	1337	G	C5-N7-C8	-6.29	101.16	104.30
1	N	1353	G	C4-C5-N7	6.29	113.31	110.80
1	N	1293	C	N3-C4-N4	6.29	122.40	118.00
1	N	1467	C	C6-N1-C2	6.29	122.81	120.30
1	N	28	A	O4'-C1'-N9	6.29	113.23	108.20
1	N	147	G	C6-N1-C2	6.29	128.87	125.10
1	N	637	C	C5-C4-N4	-6.29	115.80	120.20
1	N	796	C	C6-N1-C2	-6.29	117.79	120.30
1	N	36	C	O4'-C1'-N1	6.28	113.23	108.20
1	N	206	C	C6-N1-C1'	-6.28	113.26	120.80
1	N	269	C	C5-C4-N4	6.28	124.60	120.20
1	N	352	C	O4'-C1'-C2'	6.28	113.25	107.60
1	N	447	G	C6-C5-N7	-6.28	126.63	130.40
1	N	912	C	C6-N1-C1'	-6.28	113.26	120.80
1	N	1242	G	C5-N7-C8	6.28	107.44	104.30
1	N	1508	A	C4-C5-N7	-6.28	107.56	110.70
1	N	478	A	O4'-C1'-N9	6.28	113.22	108.20
1	N	963	G	C8-N9-C4	-6.28	103.89	106.40
1	N	189	A	C4-C5-C6	6.28	120.14	117.00
1	N	394	G	O4'-C1'-N9	6.28	113.22	108.20
1	N	546	A	C1'-O4'-C4'	6.28	114.92	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	577	G	C5'-C4'-O4'	-6.28	101.56	109.10
1	N	608	A	P-O3'-C3'	-6.28	112.16	119.70
1	N	626	G	O4'-C1'-N9	6.28	113.22	108.20
1	N	764	C	N1-C1'-C2'	-6.28	105.09	112.00
1	N	1278	G	O4'-C1'-N9	6.28	113.22	108.20
1	N	91	U	O4'-C4'-C3'	-6.28	97.72	104.00
1	N	1158	C	C5-C4-N4	-6.28	115.81	120.20
1	N	1162	C	N3-C4-C5	-6.28	119.39	121.90
1	N	420	U	P-O3'-C3'	6.28	127.23	119.70
1	N	720	C	C2-N3-C4	6.28	123.04	119.90
1	N	722	G	C5'-C4'-C3'	-6.28	105.96	116.00
1	N	726	C	C2-N3-C4	6.28	123.04	119.90
1	N	953	G	C5'-C4'-O4'	6.28	116.63	109.10
1	N	1461	G	C4-C5-C6	6.28	122.56	118.80
1	N	87	C	N3-C4-C5	-6.27	119.39	121.90
1	N	447	G	O4'-C1'-N9	6.27	113.22	108.20
1	N	716	A	C5-C6-N6	-6.27	118.68	123.70
1	N	1041	G	N1-C2-N3	-6.27	120.14	123.90
1	N	1293	C	N3-C4-C5	-6.27	119.39	121.90
1	N	1447	A	P-O3'-C3'	6.27	127.23	119.70
1	N	861	G	N1-C2-N2	-6.27	110.56	116.20
1	N	1258	G	N7-C8-N9	6.27	116.24	113.10
1	N	1337	G	P-O3'-C3'	-6.27	112.17	119.70
1	N	108	G	P-O5'-C5'	6.27	130.93	120.90
1	N	1350	A	C4-C5-C6	6.27	120.14	117.00
1	N	1433	A	C6-N1-C2	6.27	122.36	118.60
1	N	1494	G	C4-C5-C6	6.27	122.56	118.80
1	N	223	A	C5-C6-N1	-6.27	114.57	117.70
1	N	232	G	O4'-C4'-C3'	-6.27	97.73	104.00
1	N	508	U	C5-C4-O4	-6.27	122.14	125.90
1	N	1020	G	C5'-C4'-C3'	-6.27	105.97	116.00
1	N	1075	U	C5-C6-N1	-6.27	119.57	122.70
1	N	1312	G	C4'-C3'-C2'	-6.27	96.33	102.60
1	N	292	G	C6-C5-N7	-6.27	126.64	130.40
1	N	680	C	N3-C4-N4	6.27	122.39	118.00
1	N	1062	U	C5-C6-N1	6.26	125.83	122.70
1	N	1066	C	C5-C4-N4	-6.26	115.81	120.20
1	N	1210	C	N3-C4-N4	6.26	122.39	118.00
1	N	708	C	C5-C4-N4	-6.26	115.82	120.20
1	N	709	U	P-O5'-C5'	6.26	130.92	120.90
1	N	1164	G	O4'-C1'-N9	6.26	113.21	108.20
1	N	1418	A	C6-C5-N7	-6.26	127.92	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1514	G	C3'-C2'-C1'	-6.26	96.49	101.50
1	N	1455	G	N3-C4-N9	-6.26	122.24	126.00
1	N	23	C	N3-C4-N4	6.26	122.38	118.00
1	N	1092	A	C4-C5-N7	-6.26	107.57	110.70
1	N	1272	G	O4'-C1'-N9	6.26	113.21	108.20
1	N	386	C	P-O3'-C3'	6.26	127.21	119.70
1	N	865	A	O4'-C4'-C3'	-6.26	97.74	104.00
1	N	1450	U	O4'-C1'-N1	6.26	113.20	108.20
1	N	44	A	C4-C5-C6	6.25	120.13	117.00
1	N	231	U	N1-C2-N3	6.25	118.65	114.90
1	N	572	A	N3-C4-C5	-6.25	122.42	126.80
1	N	629	A	P-O5'-C5'	6.25	130.91	120.90
1	N	1309	G	C5-C6-N1	-6.25	108.37	111.50
1	N	144	G	N3-C4-C5	6.25	131.72	128.60
1	N	524	G	N3-C4-N9	6.25	129.75	126.00
1	N	717	U	C3'-C2'-C1'	6.25	106.50	101.50
1	N	253	A	N3-C4-C5	-6.25	122.42	126.80
1	N	1231	G	C4-C5-N7	-6.25	108.30	110.80
1	N	1308	U	N3-C2-O2	6.25	126.58	122.20
1	N	1362	A	O4'-C4'-C3'	-6.25	97.75	104.00
1	N	356	A	N7-C8-N9	6.25	116.92	113.80
1	N	699	C	OP2-P-O3'	6.25	118.95	105.20
1	N	883	C	C2-N3-C4	6.25	123.02	119.90
1	N	1529	G	O4'-C1'-N9	6.25	113.20	108.20
1	N	144	G	C5'-C4'-O4'	6.25	116.59	109.10
1	N	436	C	C2-N3-C4	-6.25	116.78	119.90
1	N	1068	G	C5'-C4'-C3'	-6.25	106.01	116.00
1	N	550	G	N3-C2-N2	6.25	124.27	119.90
1	N	1405	G	C4-C5-C6	-6.25	115.05	118.80
1	N	1438	G	N9-C4-C5	6.25	107.90	105.40
1	N	1444	U	C5-C4-O4	-6.25	122.15	125.90
1	N	60	A	C5-C6-N6	-6.24	118.71	123.70
1	N	230	G	C4-C5-N7	-6.24	108.30	110.80
1	N	295	C	N3-C4-N4	6.24	122.37	118.00
1	N	554	A	P-O5'-C5'	-6.24	110.91	120.90
1	N	1191	A	P-O3'-C3'	6.24	127.19	119.70
1	N	1054	C	C1'-O4'-C4'	6.24	114.89	109.90
1	N	854	U	N3-C4-C5	-6.24	110.86	114.60
1	N	1239	A	O4'-C1'-N9	6.24	113.19	108.20
1	N	1422	G	C6-N1-C2	-6.24	121.36	125.10
1	N	122	G	C5-N7-C8	-6.24	101.18	104.30
1	N	351	G	C6-N1-C2	-6.24	121.36	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	501	C	C5-C4-N4	-6.24	115.83	120.20
1	N	691	G	N9-C4-C5	6.24	107.89	105.40
1	N	914	A	P-O3'-C3'	-6.24	112.22	119.70
1	N	1223	C	C2-N1-C1'	6.24	125.66	118.80
1	N	1242	G	N7-C8-N9	-6.24	109.98	113.10
1	N	53	A	C5-C6-N6	-6.23	118.71	123.70
1	N	179	A	P-O5'-C5'	6.23	130.87	120.90
1	N	321	A	N1-C2-N3	6.23	132.42	129.30
1	N	1285	A	N1-C2-N3	-6.23	126.18	129.30
1	N	1355	G	N3-C2-N2	-6.23	115.54	119.90
1	N	1426	G	P-O5'-C5'	6.23	130.87	120.90
1	N	458	U	C5'-C4'-O4'	6.23	116.58	109.10
1	N	603	U	C6-N1-C2	-6.23	117.26	121.00
1	N	1058	G	C5-C6-O6	-6.23	124.86	128.60
1	N	1494	G	OP1-P-OP2	-6.23	110.25	119.60
1	N	252	U	O4'-C1'-N1	6.23	113.18	108.20
1	N	754	C	P-O5'-C5'	-6.23	110.93	120.90
1	N	1262	C	C5'-C4'-O4'	6.23	116.58	109.10
1	N	474	G	C1'-O4'-C4'	6.23	114.88	109.90
1	N	1276	G	C8-N9-C1'	-6.23	118.90	127.00
1	N	108	G	C4-N9-C1'	6.23	134.59	126.50
1	N	499	A	C2'-C3'-O3'	6.23	123.66	113.70
1	N	1065	U	N1-C2-O2	6.23	127.16	122.80
1	N	1262	C	O4'-C1'-N1	6.23	113.18	108.20
1	N	1502	A	C4-C5-N7	-6.23	107.59	110.70
1	N	194	C	C5'-C4'-C3'	-6.22	106.04	116.00
1	N	452	A	C2-N3-C4	-6.22	107.49	110.60
1	N	922	G	C4-C5-C6	6.22	122.53	118.80
1	N	731	G	O4'-C1'-N9	6.22	113.18	108.20
1	N	819	A	O4'-C1'-C2'	-6.22	99.58	105.80
1	N	682	G	C6-N1-C2	-6.22	121.37	125.10
1	N	273	U	P-O5'-C5'	6.22	130.85	120.90
1	N	919	A	C2-N3-C4	-6.22	107.49	110.60
1	N	1261	A	O5'-P-OP1	-6.22	100.10	105.70
1	N	1524	C	C5'-C4'-O4'	6.22	116.56	109.10
1	N	184	G	O4'-C1'-N9	6.22	113.17	108.20
1	N	149	A	O4'-C1'-N9	6.22	113.17	108.20
1	N	223	A	N7-C8-N9	6.22	116.91	113.80
1	N	375	U	N3-C4-O4	6.22	123.75	119.40
1	N	718	A	C6-C5-N7	-6.22	127.95	132.30
1	N	430	A	N1-C6-N6	6.21	122.33	118.60
1	N	640	A	C5-C6-N1	-6.21	114.59	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	754	C	P-O3'-C3'	6.21	127.16	119.70
1	N	1417	G	C5-C6-N1	-6.21	108.39	111.50
1	N	492	C	C5-C4-N4	-6.21	115.85	120.20
1	N	754	C	C2-N1-C1'	6.21	125.64	118.80
1	N	20	U	N1-C2-O2	-6.21	118.45	122.80
1	N	609	A	N9-C4-C5	-6.21	103.32	105.80
1	N	933	G	C1'-O4'-C4'	-6.21	104.93	109.90
1	N	1319	A	N3-C4-C5	6.21	131.15	126.80
1	N	1042	A	C5-C6-N1	-6.21	114.59	117.70
1	N	149	A	N3-C4-N9	6.21	132.37	127.40
1	N	804	U	C2-N1-C1'	-6.21	110.25	117.70
1	N	1055	A	C6-C5-N7	-6.21	127.95	132.30
1	N	1144	G	N9-C4-C5	-6.21	102.92	105.40
1	N	1248	A	C8-N9-C4	-6.21	103.32	105.80
1	N	1531	A	C6-C5-N7	-6.21	127.95	132.30
1	N	769	G	N1-C2-N3	-6.21	120.18	123.90
1	N	947	G	C4-C5-N7	6.21	113.28	110.80
1	N	1055	A	C1'-O4'-C4'	6.21	114.86	109.90
1	N	1178	G	N9-C4-C5	6.21	107.88	105.40
1	N	1484	C	C3'-C2'-C1'	6.21	106.47	101.50
1	N	541	G	C5-N7-C8	6.21	107.40	104.30
1	N	636	U	C2-N3-C4	-6.21	123.28	127.00
1	N	66	A	C1'-O4'-C4'	6.20	114.86	109.90
1	N	182	A	C5-C6-N6	-6.20	118.74	123.70
1	N	616	G	C4-C5-N7	6.20	113.28	110.80
1	N	721	G	N3-C4-N9	-6.20	122.28	126.00
1	N	742	G	C5-C6-N1	-6.20	108.40	111.50
1	N	775	G	C6-C5-N7	-6.20	126.68	130.40
1	N	1134	G	C5-C6-N1	-6.20	108.40	111.50
1	N	1424	U	C1'-O4'-C4'	6.20	114.86	109.90
1	N	145	G	O4'-C1'-N9	6.20	113.16	108.20
1	N	855	U	O4'-C4'-C3'	-6.20	97.80	104.00
1	N	897	C	C3'-C2'-C1'	-6.20	96.54	101.50
1	N	1181	G	C6-N1-C2	6.20	128.82	125.10
1	N	101	A	N1-C2-N3	-6.20	126.20	129.30
1	N	700	G	C4-C5-N7	-6.20	108.32	110.80
1	N	850	U	C5'-C4'-O4'	6.20	116.54	109.10
1	N	403	C	C5-C4-N4	-6.20	115.86	120.20
1	N	1364	U	N1-C2-N3	-6.20	111.18	114.90
1	N	189	A	C4-C5-N7	6.20	113.80	110.70
1	N	242	G	C4-C5-N7	6.20	113.28	110.80
1	N	650	G	C5'-C4'-O4'	6.20	116.54	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	442	G	C5-C6-O6	-6.20	124.88	128.60
1	N	1472	U	OP1-P-OP2	-6.20	110.31	119.60
1	N	722	G	C2-N3-C4	-6.19	108.80	111.90
1	N	1127	G	O4'-C1'-C2'	-6.19	99.61	105.80
1	N	1520	C	C2-N1-C1'	6.19	125.61	118.80
1	N	102	G	O4'-C1'-N9	6.19	113.15	108.20
1	N	133	U	C6-N1-C2	6.19	124.72	121.00
1	N	890	G	C4'-C3'-C2'	-6.19	96.41	102.60
1	N	1095	U	P-O3'-C3'	-6.19	112.27	119.70
1	N	77	A	C5-N7-C8	-6.19	100.81	103.90
1	N	406	G	N9-C4-C5	-6.19	102.92	105.40
1	N	950	U	P-O3'-C3'	6.19	127.13	119.70
1	N	979	C	C6-N1-C2	-6.19	117.82	120.30
1	N	162	A	P-O3'-C3'	6.19	127.12	119.70
1	N	424	G	C5-C6-O6	-6.19	124.89	128.60
1	N	1174	G	N7-C8-N9	-6.19	110.01	113.10
1	N	1207	G	OP1-P-OP2	-6.19	110.32	119.60
1	N	1269	A	C1'-O4'-C4'	6.19	114.85	109.90
1	N	1302	C	C2-N1-C1'	-6.19	111.99	118.80
1	N	563	A	C3'-C2'-C1'	6.19	106.45	101.50
1	N	210	C	O3'-P-O5'	-6.18	92.25	104.00
1	N	665	A	N3-C4-N9	6.18	132.35	127.40
1	N	800	G	C5-C6-O6	-6.18	124.89	128.60
1	N	825	A	C4'-C3'-C2'	-6.18	96.42	102.60
1	N	886	G	N1-C2-N3	-6.18	120.19	123.90
1	N	1102	A	N1-C2-N3	6.18	132.39	129.30
1	N	1196	A	C3'-C2'-C1'	-6.18	96.55	101.50
1	N	265	G	P-O3'-C3'	6.18	127.12	119.70
1	N	785	G	O4'-C1'-N9	6.18	113.15	108.20
1	N	923	A	C4'-C3'-C2'	-6.18	96.42	102.60
1	N	616	G	N3-C4-C5	6.18	131.69	128.60
1	N	947	G	N1-C2-N3	-6.18	120.19	123.90
1	N	1082	A	N1-C6-N6	6.18	122.31	118.60
1	N	1240	U	C2-N3-C4	-6.18	123.29	127.00
1	N	1511	G	O4'-C1'-N9	6.18	113.14	108.20
1	N	388	G	N3-C2-N2	6.18	124.22	119.90
1	N	491	G	C3'-C2'-C1'	-6.18	96.56	101.50
1	N	563	A	C4-C5-C6	6.18	120.09	117.00
1	N	3	A	C4-C5-C6	6.17	120.09	117.00
1	N	152	A	C5-C6-N1	-6.17	114.61	117.70
1	N	704	A	P-O3'-C3'	-6.17	112.29	119.70
1	N	1097	C	O4'-C1'-N1	6.17	113.14	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	19	A	C5-C6-N1	-6.17	114.61	117.70
1	N	26	A	O4'-C1'-N9	6.17	113.14	108.20
1	N	682	G	O4'-C1'-N9	6.17	113.14	108.20
1	N	690	G	N1-C2-N3	-6.17	120.20	123.90
1	N	709	U	N3-C2-O2	-6.17	117.88	122.20
1	N	829	G	C2-N3-C4	6.17	114.99	111.90
1	N	881	G	N9-C4-C5	6.17	107.87	105.40
1	N	1323	G	N7-C8-N9	-6.17	110.01	113.10
1	N	509	A	C5-C6-N6	-6.17	118.76	123.70
1	N	788	U	C2-N3-C4	6.17	130.70	127.00
1	N	948	C	P-O3'-C3'	6.17	127.11	119.70
1	N	1185	G	O4'-C1'-N9	6.17	113.14	108.20
1	N	238	A	C8-N9-C1'	6.17	138.81	127.70
1	N	438	U	O4'-C1'-N1	6.17	113.14	108.20
1	N	711	G	N3-C4-C5	-6.17	125.52	128.60
1	N	786	G	C5'-C4'-C3'	6.17	125.87	116.00
1	N	175	C	C6-N1-C1'	-6.17	113.40	120.80
1	N	1297	G	N1-C6-O6	6.17	123.60	119.90
1	N	45	G	N9-C4-C5	6.17	107.87	105.40
1	N	626	G	C6-C5-N7	-6.17	126.70	130.40
1	N	847	G	C6-N1-C2	-6.17	121.40	125.10
1	N	1197	A	O4'-C1'-N9	6.17	113.13	108.20
1	N	1465	A	OP1-P-OP2	-6.17	110.35	119.60
1	N	118	U	C2-N3-C4	-6.17	123.30	127.00
1	N	20	U	C5-C4-O4	-6.16	122.20	125.90
1	N	298	A	N1-C2-N3	6.16	132.38	129.30
1	N	890	G	N3-C4-C5	6.16	131.68	128.60
1	N	279	A	C1'-O4'-C4'	6.16	114.83	109.90
1	N	44	A	O4'-C1'-N9	6.16	113.13	108.20
1	N	315	A	C5-C6-N6	-6.16	118.77	123.70
1	N	775	G	C5-C6-N1	-6.16	108.42	111.50
1	N	817	C	C2-N3-C4	-6.16	116.82	119.90
1	N	1343	G	N7-C8-N9	-6.16	110.02	113.10
1	N	1118	U	P-O3'-C3'	6.16	127.09	119.70
1	N	9	G	N3-C2-N2	6.16	124.21	119.90
1	N	232	G	P-O3'-C3'	6.16	127.09	119.70
1	N	991	U	C2-N3-C4	-6.16	123.31	127.00
1	N	1311	A	O4'-C1'-N9	6.16	113.12	108.20
1	N	1329	A	C5-C6-N6	-6.15	118.78	123.70
1	N	60	A	P-O3'-C3'	6.15	127.08	119.70
1	N	117	G	O4'-C1'-N9	6.15	113.12	108.20
1	N	183	C	N1-C2-N3	-6.15	114.89	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	692	U	N3-C4-O4	6.15	123.71	119.40
1	N	920	U	O4'-C1'-N1	6.15	113.12	108.20
1	N	174	A	N3-C4-C5	-6.15	122.49	126.80
1	N	514	C	C2-N3-C4	6.15	122.97	119.90
1	N	642	A	N3-C4-C5	-6.15	122.50	126.80
1	N	41	G	O4'-C1'-N9	6.15	113.12	108.20
1	N	161	A	C5-C6-N1	-6.15	114.63	117.70
1	N	341	C	C3'-C2'-C1'	6.15	106.42	101.50
1	N	544	G	C4-C5-N7	6.15	113.26	110.80
1	N	673	A	C5-C6-N6	-6.15	118.78	123.70
1	N	1316	G	C5-N7-C8	-6.15	101.23	104.30
1	N	810	C	C2-N1-C1'	6.15	125.56	118.80
1	N	58	C	C5-C6-N1	6.14	124.07	121.00
1	N	578	C	OP1-P-O3'	6.14	118.72	105.20
1	N	1458	G	C5'-C4'-O4'	6.14	116.47	109.10
1	N	1246	A	N9-C4-C5	6.14	108.26	105.80
1	N	1409	C	C4-C5-C6	6.14	120.47	117.40
1	N	55	A	C4-C5-N7	-6.14	107.63	110.70
1	N	441	A	C5'-C4'-O4'	6.14	116.47	109.10
1	N	906	A	C4-C5-C6	6.14	120.07	117.00
1	N	31	G	C4-C5-N7	6.14	113.26	110.80
1	N	54	C	P-O3'-C3'	-6.14	112.33	119.70
1	N	137	U	O4'-C4'-C3'	-6.14	97.86	104.00
1	N	635	A	P-O5'-C5'	-6.14	111.08	120.90
1	N	934	C	N3-C4-N4	6.14	122.30	118.00
1	N	1147	C	C5-C4-N4	-6.14	115.90	120.20
1	N	1162	C	O4'-C1'-N1	6.14	113.11	108.20
1	N	1290	G	N1-C6-O6	6.14	123.58	119.90
1	N	1533	C	P-O5'-C5'	6.14	130.72	120.90
1	N	170	U	N1-C2-N3	6.14	118.58	114.90
1	N	868	C	C2-N1-C1'	6.14	125.55	118.80
1	N	34	C	C2-N3-C4	-6.14	116.83	119.90
1	N	269	C	N1-C2-N3	6.14	123.50	119.20
1	N	294	U	N3-C4-C5	-6.14	110.92	114.60
1	N	313	A	O4'-C1'-N9	6.14	113.11	108.20
1	N	317	U	C5'-C4'-C3'	-6.14	106.18	116.00
1	N	455	G	N3-C2-N2	6.14	124.20	119.90
1	N	679	C	P-O5'-C5'	6.14	130.72	120.90
1	N	809	G	C2-N3-C4	6.14	114.97	111.90
1	N	1062	U	C2-N3-C4	-6.14	123.32	127.00
1	N	1208	C	C5-C6-N1	6.14	124.07	121.00
1	N	1364	U	C5-C6-N1	6.14	125.77	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	279	A	C8-N9-C4	-6.13	103.35	105.80
1	N	299	G	C5'-C4'-C3'	6.13	125.81	116.00
1	N	433	G	C1'-O4'-C4'	6.13	114.81	109.90
1	N	681	A	C6-C5-N7	-6.13	128.00	132.30
1	N	820	U	C2-N1-C1'	6.13	125.06	117.70
1	N	911	U	C2-N3-C4	-6.13	123.32	127.00
1	N	1248	A	P-O5'-C5'	6.13	130.72	120.90
1	N	1467	C	C5-C4-N4	-6.13	115.91	120.20
1	N	178	C	N1-C2-O2	6.13	122.58	118.90
1	N	151	A	C6-C5-N7	-6.13	128.01	132.30
1	N	211	G	C4-N9-C1'	6.13	134.47	126.50
1	N	242	G	N9-C4-C5	-6.13	102.95	105.40
1	N	374	A	C4-N9-C1'	-6.13	115.26	126.30
1	N	560	A	C4-C5-N7	-6.13	107.63	110.70
1	N	685	G	N7-C8-N9	-6.13	110.03	113.10
1	N	812	G	N3-C2-N2	6.13	124.19	119.90
1	N	1083	U	N3-C4-O4	6.13	123.69	119.40
1	N	1244	G	N1-C2-N3	-6.13	120.22	123.90
1	N	557	G	C5-C6-N1	-6.13	108.44	111.50
1	N	678	U	C5-C4-O4	-6.13	122.22	125.90
1	N	770	C	P-O5'-C5'	-6.13	111.09	120.90
1	N	1220	G	C2-N3-C4	-6.13	108.83	111.90
1	N	199	A	O4'-C4'-C3'	-6.13	97.87	104.00
1	N	227	G	P-O3'-C3'	-6.13	112.35	119.70
1	N	262	A	C6-C5-N7	-6.13	128.01	132.30
1	N	451	A	C5-C6-N6	-6.13	118.80	123.70
1	N	474	G	C4-C5-C6	6.13	122.48	118.80
1	N	653	U	O4'-C1'-N1	6.13	113.10	108.20
1	N	942	G	N1-C2-N3	-6.13	120.22	123.90
1	N	991	U	C6-N1-C2	-6.13	117.32	121.00
1	N	1058	G	N9-C4-C5	-6.13	102.95	105.40
1	N	1361	G	C8-N9-C4	-6.13	103.95	106.40
1	N	267	C	N3-C4-N4	6.13	122.29	118.00
1	N	521	G	C8-N9-C4	-6.13	103.95	106.40
1	N	780	A	N1-C2-N3	6.13	132.36	129.30
1	N	809	G	C5-C6-O6	-6.13	124.92	128.60
1	N	922	G	C2-N3-C4	6.13	114.96	111.90
1	N	938	A	N7-C8-N9	6.13	116.86	113.80
1	N	1118	U	C5'-C4'-O4'	-6.13	101.75	109.10
1	N	604	G	P-O5'-C5'	6.12	130.70	120.90
1	N	1522	U	P-O3'-C3'	-6.12	112.35	119.70
1	N	854	U	C5-C4-O4	-6.12	122.23	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	868	C	N3-C2-O2	-6.12	117.61	121.90
1	N	1139	G	N3-C4-C5	6.12	131.66	128.60
1	N	49	U	P-O5'-C5'	6.12	130.69	120.90
1	N	145	G	C4-C5-N7	6.12	113.25	110.80
1	N	232	G	N9-C4-C5	6.12	107.85	105.40
1	N	321	A	N7-C8-N9	-6.12	110.74	113.80
1	N	322	C	N3-C2-O2	-6.12	117.61	121.90
1	N	1158	C	O4'-C1'-C2'	6.12	113.11	107.60
1	N	1494	G	C4'-C3'-C2'	-6.12	96.48	102.60
1	N	1495	U	O4'-C1'-N1	6.12	113.10	108.20
1	N	304	U	N1-C2-N3	-6.12	111.23	114.90
1	N	417	G	C5-C6-O6	-6.12	124.93	128.60
1	N	480	U	O3'-P-O5'	-6.12	92.37	104.00
1	N	795	C	N1-C1'-C2'	6.12	121.96	114.00
1	N	815	A	C1'-O4'-C4'	-6.12	105.00	109.90
1	N	971	G	N1-C2-N3	-6.12	120.23	123.90
1	N	1460	C	C4'-C3'-C2'	-6.12	96.48	102.60
1	N	184	G	C8-N9-C4	-6.12	103.95	106.40
1	N	1261	A	C1'-O4'-C4'	-6.12	105.00	109.90
1	N	262	A	N3-C4-C5	-6.12	122.52	126.80
1	N	969	A	O4'-C1'-N9	6.12	113.09	108.20
1	N	1124	G	N3-C2-N2	6.12	124.18	119.90
1	N	369	G	N1-C6-O6	6.12	123.57	119.90
1	N	438	U	C5-C6-N1	-6.12	119.64	122.70
1	N	720	C	C5-C4-N4	-6.12	115.92	120.20
1	N	1367	C	C6-N1-C2	-6.12	117.85	120.30
1	N	68	G	C6-C5-N7	-6.11	126.73	130.40
1	N	544	G	C4-C5-C6	6.11	122.47	118.80
1	N	1326	U	O4'-C1'-N1	6.11	113.09	108.20
1	N	308	C	O5'-P-OP1	-6.11	100.20	105.70
1	N	661	G	N7-C8-N9	6.11	116.16	113.10
1	N	704	A	O4'-C4'-C3'	-6.11	97.89	104.00
1	N	815	A	C2-N3-C4	-6.11	107.54	110.60
1	N	884	U	N3-C4-C5	6.11	118.27	114.60
1	N	1142	G	C5-C6-O6	-6.11	124.93	128.60
1	N	1251	A	C8-N9-C4	-6.11	103.36	105.80
1	N	1491	G	O4'-C1'-N9	6.11	113.09	108.20
1	N	689	C	C5'-C4'-O4'	6.11	116.43	109.10
1	N	813	U	N1-C2-N3	-6.11	111.23	114.90
1	N	1333	A	N7-C8-N9	6.11	116.86	113.80
1	N	843	U	C6-N1-C1'	-6.11	112.65	121.20
1	N	1104	G	N1-C2-N2	6.11	121.70	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1262	C	N3-C2-O2	-6.11	117.62	121.90
1	N	1320	C	C4'-C3'-C2'	-6.11	96.49	102.60
1	N	400	C	N3-C4-N4	6.11	122.28	118.00
1	N	598	U	O4'-C1'-N1	6.11	113.08	108.20
1	N	721	G	C2-N3-C4	-6.11	108.85	111.90
1	N	1013	G	N9-C4-C5	6.11	107.84	105.40
1	N	1486	G	N3-C4-C5	6.11	131.65	128.60
1	N	258	G	P-O5'-C5'	6.11	130.67	120.90
1	N	319	G	O4'-C1'-N9	6.11	113.08	108.20
1	N	1062	U	O5'-C5'-C4'	6.11	123.30	111.70
1	N	969	A	N9-C4-C5	6.10	108.24	105.80
1	N	1517	G	N1-C2-N2	6.10	121.69	116.20
1	N	64	G	C5-C6-O6	-6.10	124.94	128.60
1	N	214	C	C2-N3-C4	6.10	122.95	119.90
1	N	497	G	C4-N9-C1'	-6.10	118.57	126.50
1	N	599	C	C6-N1-C2	-6.10	117.86	120.30
1	N	411	A	C5-C6-N6	-6.10	118.82	123.70
1	N	1518	A	N3-C4-N9	6.10	132.28	127.40
1	N	107	G	N9-C4-C5	-6.10	102.96	105.40
1	N	568	G	C2-N3-C4	-6.10	108.85	111.90
1	N	732	C	C2-N3-C4	6.10	122.95	119.90
1	N	1387	G	N3-C2-N2	6.10	124.17	119.90
1	N	175	C	N3-C4-N4	6.10	122.27	118.00
1	N	238	A	C4-N9-C1'	-6.10	115.32	126.30
1	N	1288	A	N9-C4-C5	6.10	108.24	105.80
1	N	199	A	C5-C6-N6	-6.09	118.83	123.70
1	N	262	A	C5-C6-N6	-6.09	118.82	123.70
1	N	481	G	C6-N1-C2	-6.09	121.44	125.10
1	N	606	G	C4'-C3'-C2'	6.09	108.69	102.60
1	N	1423	G	O4'-C1'-N9	6.09	113.08	108.20
1	N	1465	A	C6-N1-C2	6.09	122.26	118.60
1	N	1515	G	C4-C5-N7	6.09	113.24	110.80
1	N	841	C	C6-N1-C1'	-6.09	113.49	120.80
1	N	1035	A	C4'-C3'-C2'	-6.09	96.51	102.60
1	N	153	C	P-O5'-C5'	6.09	130.65	120.90
1	N	800	G	C6-C5-N7	-6.09	126.75	130.40
1	N	1044	A	C5-N7-C8	6.09	106.95	103.90
1	N	1059	C	C4-C5-C6	6.09	120.44	117.40
1	N	1188	A	C6-C5-N7	-6.09	128.04	132.30
1	N	1444	U	O4'-C1'-N1	6.09	113.07	108.20
1	N	76	G	C5'-C4'-C3'	-6.09	106.26	116.00
1	N	752	G	N3-C4-C5	6.09	131.64	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1163	A	C6-N1-C2	-6.09	114.95	118.60
1	N	1185	G	C5-C6-O6	-6.09	124.95	128.60
1	N	1338	G	C6-N1-C2	6.09	128.75	125.10
1	N	189	A	N3-C4-N9	6.09	132.27	127.40
1	N	233	C	C6-N1-C1'	-6.09	113.50	120.80
1	N	1221	G	N3-C4-C5	6.09	131.64	128.60
1	N	909	A	C4-C5-N7	6.09	113.74	110.70
1	N	76	G	N3-C2-N2	6.08	124.16	119.90
1	N	291	U	C5-C6-N1	6.08	125.74	122.70
1	N	985	C	N1-C2-N3	-6.08	114.94	119.20
1	N	1002	G	P-O3'-C3'	-6.08	112.40	119.70
1	N	1227	A	C8-N9-C4	-6.08	103.37	105.80
1	N	1304	G	N3-C4-C5	-6.08	125.56	128.60
1	N	38	G	C5-C6-O6	-6.08	124.95	128.60
1	N	120	A	C8-N9-C4	-6.08	103.37	105.80
1	N	513	C	P-O5'-C5'	6.08	130.63	120.90
1	N	1160	G	N1-C2-N3	-6.08	120.25	123.90
1	N	442	G	P-O5'-C5'	6.08	130.63	120.90
1	N	669	G	C8-N9-C4	-6.08	103.97	106.40
1	N	172	A	N1-C6-N6	6.08	122.25	118.60
1	N	477	C	C6-N1-C1'	-6.08	113.51	120.80
1	N	1095	U	O4'-C1'-N1	6.08	113.06	108.20
1	N	1297	G	N3-C4-C5	6.08	131.64	128.60
1	N	1322	C	C5-C4-N4	-6.08	115.94	120.20
1	N	141	G	C5'-C4'-O4'	6.08	116.39	109.10
1	N	173	U	P-O3'-C3'	6.08	126.99	119.70
1	N	332	G	C5-C6-N1	-6.08	108.46	111.50
1	N	963	G	C4'-C3'-C2'	-6.08	96.52	102.60
1	N	1206	G	C4-C5-C6	6.08	122.45	118.80
1	N	1508	A	N7-C8-N9	-6.08	110.76	113.80
1	N	324	G	N9-C4-C5	6.08	107.83	105.40
1	N	338	A	C1'-O4'-C4'	-6.08	105.04	109.90
1	N	450	G	N7-C8-N9	-6.08	110.06	113.10
1	N	942	G	C5-C6-N1	-6.08	108.46	111.50
1	N	333	U	P-O5'-C5'	6.07	130.62	120.90
1	N	835	U	C2-N1-C1'	-6.07	110.41	117.70
1	N	856	C	O4'-C1'-N1	6.07	113.06	108.20
1	N	1019	A	N3-C4-C5	6.07	131.05	126.80
1	N	164	G	P-O3'-C3'	-6.07	112.41	119.70
1	N	46	G	OP1-P-OP2	-6.07	110.49	119.60
1	N	194	C	N3-C2-O2	6.07	126.15	121.90
1	N	858	G	C2-N3-C4	6.07	114.94	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1229	A	C5-C6-N1	-6.07	114.67	117.70
1	N	680	C	O5'-C5'-C4'	-6.07	100.17	111.70
1	N	32	A	C2-N3-C4	-6.07	107.57	110.60
1	N	36	C	N3-C4-N4	6.07	122.25	118.00
1	N	535	A	N1-C2-N3	6.07	132.33	129.30
1	N	781	A	N9-C1'-C2'	-6.07	105.33	112.00
1	N	1408	A	P-O3'-C3'	6.07	126.98	119.70
1	N	215	C	C5-C6-N1	-6.07	117.97	121.00
1	N	516	U	N3-C4-O4	6.07	123.65	119.40
1	N	702	A	N1-C6-N6	6.07	122.24	118.60
1	N	902	G	O4'-C1'-N9	6.07	113.05	108.20
1	N	1067	A	C2-N3-C4	-6.07	107.57	110.60
1	N	1177	G	O4'-C1'-N9	6.07	113.05	108.20
1	N	1522	U	N1-C2-O2	-6.07	118.55	122.80
1	N	821	G	C5'-C4'-C3'	-6.06	106.30	116.00
1	N	898	G	N3-C2-N2	6.06	124.14	119.90
1	N	1360	A	C6-C5-N7	-6.06	128.06	132.30
1	N	1389	C	C6-N1-C2	6.06	122.72	120.30
1	N	959	A	C6-C5-N7	-6.06	128.06	132.30
1	N	216	U	C1'-O4'-C4'	-6.06	105.05	109.90
1	N	347	G	C2-N3-C4	6.06	114.93	111.90
1	N	408	A	C6-C5-N7	-6.06	128.06	132.30
1	N	755	G	C5'-C4'-C3'	-6.06	106.30	116.00
1	N	771	G	C5-C6-O6	-6.06	124.96	128.60
1	N	1191	A	C6-C5-N7	-6.06	128.06	132.30
1	N	1527	U	N3-C4-C5	6.06	118.23	114.60
1	N	338	A	P-O3'-C3'	-6.06	112.43	119.70
1	N	465	A	C6-N1-C2	-6.06	114.97	118.60
1	N	479	U	P-O3'-C3'	-6.06	112.43	119.70
1	N	774	G	C2'-C3'-O3'	6.06	123.39	113.70
1	N	1240	U	O4'-C1'-N1	6.06	113.05	108.20
1	N	1315	U	O5'-C5'-C4'	-6.06	100.19	111.70
1	N	1342	C	C1'-O4'-C4'	-6.06	105.05	109.90
1	N	318	G	N7-C8-N9	-6.06	110.07	113.10
1	N	773	G	C5-C6-N1	-6.06	108.47	111.50
1	N	847	G	C8-N9-C4	-6.06	103.98	106.40
1	N	800	G	C5-N7-C8	-6.05	101.27	104.30
1	N	821	G	C4-C5-N7	6.05	113.22	110.80
1	N	1086	U	N1-C2-N3	6.05	118.53	114.90
1	N	1448	C	C5-C6-N1	6.05	124.03	121.00
1	N	125	U	N1-C2-O2	-6.05	118.56	122.80
1	N	952	U	O4'-C1'-N1	6.05	113.04	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	438	U	C3'-C2'-C1'	6.05	106.34	101.50
1	N	521	G	C4-C5-C6	6.05	122.43	118.80
1	N	1469	C	P-O5'-C5'	-6.05	111.22	120.90
1	N	212	G	C5-C6-N1	-6.05	108.47	111.50
1	N	778	G	N1-C2-N3	-6.05	120.27	123.90
1	N	937	A	C2-N3-C4	-6.05	107.58	110.60
1	N	9	G	P-O5'-C5'	6.05	130.58	120.90
1	N	336	A	N7-C8-N9	-6.05	110.78	113.80
1	N	427	U	N1-C2-O2	6.05	127.03	122.80
1	N	12	U	N3-C4-C5	-6.05	110.97	114.60
1	N	17	U	N3-C4-C5	-6.05	110.97	114.60
1	N	671	G	C6-C5-N7	-6.05	126.77	130.40
1	N	1163	A	C5-C6-N6	-6.04	118.86	123.70
1	N	455	G	C5-C6-N1	-6.04	108.48	111.50
1	N	527	G	N1-C2-N3	-6.04	120.27	123.90
1	N	826	C	O4'-C1'-N1	6.04	113.03	108.20
1	N	925	G	N1-C6-O6	6.04	123.53	119.90
1	N	1032	G	C1'-O4'-C4'	-6.04	105.06	109.90
1	N	241	G	N3-C4-C5	-6.04	125.58	128.60
1	N	1045	C	N1-C2-O2	-6.04	115.28	118.90
1	N	1383	C	N3-C4-N4	6.04	122.23	118.00
1	N	1043	G	N3-C2-N2	6.04	124.13	119.90
1	N	876	C	N1-C2-O2	-6.04	115.28	118.90
1	N	1051	C	C6-N1-C2	6.04	122.72	120.30
1	N	1388	C	C1'-O4'-C4'	-6.04	105.07	109.90
1	N	94	G	C4-C5-N7	-6.04	108.39	110.80
1	N	844	G	N7-C8-N9	6.04	116.12	113.10
1	N	1010	U	C5-C6-N1	-6.04	119.68	122.70
1	N	1353	G	C8-N9-C4	6.04	108.81	106.40
1	N	1458	G	C5-C6-N1	-6.04	108.48	111.50
1	N	431	A	C6-N1-C2	-6.04	114.98	118.60
1	N	909	A	OP1-P-OP2	-6.04	110.55	119.60
1	N	577	G	C4-C5-C6	6.03	122.42	118.80
1	N	675	A	P-O5'-C5'	-6.03	111.25	120.90
1	N	1335	U	N3-C4-O4	6.03	123.62	119.40
1	N	656	G	C5-N7-C8	6.03	107.32	104.30
1	N	650	G	C6-N1-C2	6.03	128.72	125.10
1	N	801	U	C4-C5-C6	6.03	123.32	119.70
1	N	342	C	O4'-C1'-N1	6.03	113.02	108.20
1	N	468	A	O4'-C1'-N9	6.03	113.02	108.20
1	N	513	C	O5'-C5'-C4'	-6.03	100.25	111.70
1	N	1153	G	N3-C4-N9	6.03	129.62	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1165	U	C6-N1-C2	-6.03	117.38	121.00
1	N	116	A	C5-C6-N1	-6.03	114.69	117.70
1	N	171	A	C4'-C3'-C2'	-6.03	96.57	102.60
1	N	1192	C	O4'-C1'-N1	6.03	113.02	108.20
1	N	472	U	C5-C6-N1	6.03	125.71	122.70
1	N	705	G	C5'-C4'-O4'	6.03	116.33	109.10
1	N	942	G	N9-C4-C5	6.03	107.81	105.40
1	N	951	G	N9-C4-C5	-6.03	102.99	105.40
1	N	957	U	N1-C2-O2	-6.03	118.58	122.80
1	N	1091	U	C2-N1-C1'	6.03	124.93	117.70
1	N	1341	U	C4-C5-C6	-6.03	116.08	119.70
1	N	47	C	C2-N3-C4	6.02	122.91	119.90
1	N	247	G	C8-N9-C4	6.02	108.81	106.40
1	N	22	G	N3-C4-N9	-6.02	122.39	126.00
1	N	139	A	N9-C4-C5	6.02	108.21	105.80
1	N	142	G	C1'-O4'-C4'	6.02	114.72	109.90
1	N	491	G	P-O5'-C5'	-6.02	111.26	120.90
1	N	570	G	C5-C6-O6	-6.02	124.99	128.60
1	N	1196	A	N3-C4-C5	-6.02	122.58	126.80
1	N	86	G	C5-C6-O6	-6.02	124.99	128.60
1	N	515	G	N3-C4-C5	6.02	131.61	128.60
1	N	731	G	P-O5'-C5'	6.02	130.53	120.90
1	N	869	G	C8-N9-C4	-6.02	103.99	106.40
1	N	122	G	C4-C5-N7	6.02	113.21	110.80
1	N	370	C	N3-C4-C5	-6.02	119.49	121.90
1	N	389	A	P-O5'-C5'	6.02	130.53	120.90
1	N	562	U	P-O3'-C3'	6.02	126.92	119.70
1	N	1108	G	C5'-C4'-O4'	6.02	116.32	109.10
1	N	1288	A	C5-C6-N1	-6.02	114.69	117.70
1	N	1444	U	N1-C2-O2	-6.02	118.59	122.80
1	N	151	A	C3'-C2'-C1'	-6.02	96.69	101.50
1	N	320	A	N9-C4-C5	6.02	108.21	105.80
1	N	668	G	C6-C5-N7	-6.02	126.79	130.40
1	N	134	G	O4'-C4'-C3'	-6.02	97.98	104.00
1	N	208	U	C5-C4-O4	-6.02	122.29	125.90
1	N	1087	G	N1-C2-N3	-6.02	120.29	123.90
1	N	1285	A	C6-C5-N7	6.02	136.51	132.30
1	N	341	C	O4'-C1'-N1	6.01	113.01	108.20
1	N	367	U	O4'-C1'-N1	6.01	113.01	108.20
1	N	412	A	C5-N7-C8	6.01	106.91	103.90
1	N	545	C	C2-N3-C4	6.01	122.91	119.90
1	N	1303	C	N1-C2-N3	-6.01	114.99	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1038	C	C2-N3-C4	6.01	122.91	119.90
1	N	1406	U	N3-C4-C5	-6.01	110.99	114.60
1	N	357	G	C5-C6-N1	-6.01	108.49	111.50
1	N	361	G	C5-C6-O6	-6.01	124.99	128.60
1	N	925	G	N3-C4-C5	-6.01	125.59	128.60
1	N	1412	C	C6-N1-C1'	-6.01	113.59	120.80
1	N	1430	A	C1'-O4'-C4'	-6.01	105.09	109.90
1	N	964	A	C5-N7-C8	6.01	106.91	103.90
1	N	974	A	C5-C6-N1	-6.01	114.69	117.70
1	N	1204	A	C4'-C3'-C2'	-6.01	96.59	102.60
1	N	10	A	C5-N7-C8	6.01	106.90	103.90
1	N	1184	G	C5-C6-O6	-6.01	125.00	128.60
1	N	1398	A	C8-N9-C4	-6.01	103.40	105.80
1	N	45	G	N7-C8-N9	-6.01	110.10	113.10
1	N	185	U	C5'-C4'-O4'	6.01	116.31	109.10
1	N	1375	A	N7-C8-N9	6.01	116.80	113.80
1	N	148	G	N7-C8-N9	-6.00	110.10	113.10
1	N	257	G	N3-C4-N9	6.00	129.60	126.00
1	N	269	C	N1-C2-O2	-6.00	115.30	118.90
1	N	679	C	C5-C6-N1	6.00	124.00	121.00
1	N	1203	C	C3'-C2'-C1'	-6.00	96.70	101.50
1	N	45	G	C6-N1-C2	6.00	128.70	125.10
1	N	491	G	O4'-C1'-N9	6.00	113.00	108.20
1	N	687	A	C5-C6-N1	-6.00	114.70	117.70
1	N	1158	C	N1-C2-O2	-6.00	115.30	118.90
1	N	146	G	O4'-C1'-N9	6.00	113.00	108.20
1	N	199	A	C4-C5-N7	6.00	113.70	110.70
1	N	688	G	C6-N1-C2	6.00	128.70	125.10
1	N	1055	A	C5'-C4'-C3'	6.00	125.60	116.00
1	N	22	G	C5'-C4'-O4'	6.00	116.30	109.10
1	N	58	C	C4'-C3'-C2'	-6.00	96.60	102.60
1	N	187	G	N1-C2-N3	-6.00	120.30	123.90
1	N	1428	A	OP1-P-OP2	-6.00	110.60	119.60
1	N	17	U	C4-C5-C6	6.00	123.30	119.70
1	N	250	A	C4-C5-N7	-6.00	107.70	110.70
1	N	289	G	N1-C2-N3	-6.00	120.30	123.90
1	N	631	C	N1-C2-N3	-6.00	115.00	119.20
1	N	1339	A	C5-N7-C8	6.00	106.90	103.90
1	N	1385	G	C6-C5-N7	-6.00	126.80	130.40
1	N	1423	G	C6-C5-N7	-6.00	126.80	130.40
1	N	186	C	C2'-C3'-O3'	6.00	123.29	113.70
1	N	245	U	N3-C4-C5	-6.00	111.00	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	239	U	N3-C4-C5	5.99	118.20	114.60
1	N	306	A	C5-C6-N1	-5.99	114.70	117.70
1	N	542	G	N3-C4-C5	-5.99	125.60	128.60
1	N	788	U	P-O5'-C5'	5.99	130.49	120.90
1	N	894	G	N7-C8-N9	5.99	116.09	113.10
1	N	1018	G	C4-C5-C6	5.99	122.39	118.80
1	N	1078	U	C2-N1-C1'	5.99	124.89	117.70
1	N	1272	G	C8-N9-C4	-5.99	104.00	106.40
1	N	241	G	C3'-C2'-C1'	-5.99	96.71	101.50
1	N	522	C	N1-C2-O2	-5.99	115.31	118.90
1	N	773	G	C4-C5-C6	5.99	122.39	118.80
1	N	863	U	C2-N3-C4	5.99	130.59	127.00
1	N	1257	A	C6-N1-C2	-5.99	115.01	118.60
1	N	1524	C	C4-C5-C6	-5.99	114.41	117.40
1	N	362	G	N3-C4-C5	-5.99	125.61	128.60
1	N	759	A	C5-C6-N6	-5.99	118.91	123.70
1	N	1048	G	N9-C1'-C2'	-5.99	105.42	112.00
1	N	957	U	N3-C4-C5	-5.98	111.01	114.60
1	N	1353	G	N1-C2-N3	-5.98	120.31	123.90
1	N	1420	U	C5'-C4'-C3'	-5.98	106.43	116.00
1	N	1452	C	O4'-C1'-N1	5.98	112.98	108.20
1	N	1454	G	C8-N9-C1'	-5.98	119.22	127.00
1	N	129	A	C5-C6-N1	-5.98	114.71	117.70
1	N	412	A	C5-C6-N1	-5.98	114.71	117.70
1	N	575	G	C2-N3-C4	5.98	114.89	111.90
1	N	790	A	C6-N1-C2	-5.98	115.01	118.60
1	N	826	C	N3-C4-N4	5.98	122.19	118.00
1	N	989	U	C5'-C4'-C3'	-5.98	106.43	116.00
1	N	752	G	C5-C6-O6	5.98	132.19	128.60
1	N	1229	A	C4-C5-N7	5.98	113.69	110.70
1	N	9	G	N9-C4-C5	-5.98	103.01	105.40
1	N	76	G	O4'-C1'-N9	5.98	112.98	108.20
1	N	112	G	N1-C2-N2	-5.98	110.82	116.20
1	N	1165	U	C5-C4-O4	-5.98	122.31	125.90
1	N	1241	G	C8-N9-C4	5.98	108.79	106.40
1	N	1466	C	P-O3'-C3'	5.98	126.87	119.70
1	N	76	G	C4-N9-C1'	5.98	134.27	126.50
1	N	427	U	C5-C6-N1	-5.98	119.71	122.70
1	N	689	C	N1-C2-O2	-5.98	115.31	118.90
1	N	1164	G	N7-C8-N9	-5.98	110.11	113.10
1	N	1420	U	N1-C2-O2	-5.98	118.62	122.80
1	N	120	A	C4-C5-N7	-5.97	107.71	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	627	G	C5-N7-C8	-5.97	101.31	104.30
1	N	1006	G	O4'-C1'-N9	5.97	112.98	108.20
1	N	1285	A	O4'-C1'-N9	5.97	112.98	108.20
1	N	186	C	C5-C4-N4	-5.97	116.02	120.20
1	N	309	A	N3-C4-C5	-5.97	122.62	126.80
1	N	343	U	C6-N1-C2	-5.97	117.42	121.00
1	N	812	G	C5-C6-N1	-5.97	108.51	111.50
1	N	903	G	N1-C6-O6	5.97	123.48	119.90
1	N	908	A	C8-N9-C4	-5.97	103.41	105.80
1	N	975	A	N3-C4-C5	-5.97	122.62	126.80
1	N	1176	A	O4'-C1'-N9	5.97	112.98	108.20
1	N	166	U	C1'-O4'-C4'	5.97	114.68	109.90
1	N	226	G	C6-C5-N7	-5.97	126.82	130.40
1	N	392	C	C5-C4-N4	-5.97	116.02	120.20
1	N	591	U	P-O5'-C5'	5.97	130.45	120.90
1	N	709	U	O4'-C1'-N1	5.97	112.98	108.20
1	N	867	G	C5-N7-C8	-5.97	101.31	104.30
1	N	216	U	N1-C1'-C2'	-5.97	105.43	112.00
1	N	559	A	C5'-C4'-C3'	-5.97	106.45	116.00
1	N	930	C	N1-C2-O2	-5.97	115.32	118.90
1	N	1035	A	O4'-C1'-N9	5.97	112.98	108.20
1	N	390	U	O4'-C1'-N1	5.97	112.97	108.20
1	N	460	A	P-O5'-C5'	5.97	130.45	120.90
1	N	635	A	C4-C5-N7	-5.97	107.72	110.70
1	N	1086	U	C5'-C4'-C3'	-5.97	106.45	116.00
1	N	1175	G	C6-N1-C2	5.97	128.68	125.10
1	N	109	A	N7-C8-N9	5.97	116.78	113.80
1	N	430	A	O4'-C1'-N9	5.97	112.97	108.20
1	N	1435	G	C8-N9-C1'	5.97	134.75	127.00
1	N	1517	G	O4'-C1'-N9	5.97	112.97	108.20
1	N	59	A	C4-C5-C6	5.96	119.98	117.00
1	N	387	U	N3-C4-O4	5.96	123.58	119.40
1	N	563	A	N3-C4-N9	5.96	132.17	127.40
1	N	865	A	C1'-O4'-C4'	5.96	114.67	109.90
1	N	1439	G	N3-C2-N2	5.96	124.08	119.90
1	N	1496	C	N3-C2-O2	5.96	126.08	121.90
1	N	125	U	C3'-C2'-C1'	5.96	106.27	101.50
1	N	576	C	C5-C6-N1	5.96	123.98	121.00
1	N	917	G	C4-C5-N7	5.96	113.19	110.80
1	N	1330	U	O4'-C1'-N1	5.96	112.97	108.20
1	N	1239	A	C2-N3-C4	-5.96	107.62	110.60
1	N	1468	A	C6-N1-C2	5.96	122.18	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1256	A	C6-C5-N7	-5.96	128.13	132.30
1	N	1402	C	O4'-C1'-N1	5.96	112.97	108.20
1	N	329	A	C5-C6-N6	-5.96	118.93	123.70
1	N	336	A	C6-N1-C2	5.96	122.17	118.60
1	N	528	C	C6-N1-C2	-5.96	117.92	120.30
1	N	654	G	N1-C2-N3	-5.96	120.33	123.90
1	N	1332	A	C8-N9-C4	-5.96	103.42	105.80
1	N	38	G	C8-N9-C4	-5.96	104.02	106.40
1	N	694	A	N3-C4-C5	-5.96	122.63	126.80
1	N	1118	U	C4'-C3'-C2'	-5.96	96.64	102.60
1	N	180	U	P-O5'-C5'	5.96	130.43	120.90
1	N	1492	A	C4'-C3'-C2'	-5.96	96.64	102.60
1	N	536	C	C5'-C4'-O4'	-5.95	101.95	109.10
1	N	730	G	C5-C6-O6	-5.95	125.03	128.60
1	N	782	A	C5-C6-N1	-5.95	114.72	117.70
1	N	1249	C	C6-N1-C2	-5.95	117.92	120.30
1	N	16	A	C5'-C4'-O4'	-5.95	101.96	109.10
1	N	633	G	C4-C5-N7	5.95	113.18	110.80
1	N	767	A	C5-N7-C8	5.95	106.88	103.90
1	N	894	G	C4-C5-C6	5.95	122.37	118.80
1	N	1046	A	C5'-C4'-O4'	5.95	116.24	109.10
1	N	52	C	C5-C4-N4	-5.95	116.04	120.20
1	N	381	C	O4'-C4'-C3'	-5.95	98.05	104.00
1	N	801	U	C1'-O4'-C4'	5.95	114.66	109.90
1	N	815	A	O4'-C4'-C3'	-5.95	98.05	104.00
1	N	919	A	C4-C5-C6	5.95	119.97	117.00
1	N	976	G	O5'-P-OP2	5.95	117.84	110.70
1	N	1190	G	N9-C4-C5	5.95	107.78	105.40
1	N	1392	G	C5'-C4'-C3'	-5.95	106.48	116.00
1	N	1486	G	N3-C2-N2	5.95	124.06	119.90
1	N	594	U	P-O3'-C3'	5.95	126.84	119.70
1	N	296	U	C5-C6-N1	5.95	125.67	122.70
1	N	694	A	C2-N3-C4	5.95	113.57	110.60
1	N	832	G	N1-C2-N2	5.95	121.55	116.20
1	N	1181	G	C5'-C4'-O4'	5.95	116.23	109.10
1	N	867	G	C8-N9-C1'	-5.94	119.27	127.00
1	N	1016	A	C6-C5-N7	-5.94	128.14	132.30
1	N	1454	G	C5-C6-O6	-5.94	125.03	128.60
1	N	353	A	O4'-C1'-N9	5.94	112.95	108.20
1	N	150	U	C5-C4-O4	-5.94	122.33	125.90
1	N	629	A	C4'-C3'-C2'	-5.94	96.66	102.60
1	N	720	C	N1-C2-N3	-5.94	115.04	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	777	A	C6-C5-N7	-5.94	128.14	132.30
1	N	1229	A	O4'-C1'-N9	5.94	112.95	108.20
1	N	229	U	C5-C6-N1	5.94	125.67	122.70
1	N	296	U	C4-C5-C6	-5.94	116.14	119.70
1	N	360	G	C6-N1-C2	5.94	128.66	125.10
1	N	791	G	P-O3'-C3'	5.94	126.83	119.70
1	N	1145	A	OP2-P-O3'	5.94	118.26	105.20
1	N	1303	C	N3-C2-O2	5.94	126.06	121.90
1	N	259	G	C5-N7-C8	5.94	107.27	104.30
1	N	524	G	C6-C5-N7	-5.94	126.84	130.40
1	N	807	A	C5'-C4'-C3'	5.94	125.50	116.00
1	N	280	C	N1-C2-O2	-5.93	115.34	118.90
1	N	635	A	N7-C8-N9	-5.93	110.83	113.80
1	N	1411	C	N3-C4-N4	5.93	122.16	118.00
1	N	92	U	C6-N1-C2	-5.93	117.44	121.00
1	N	97	G	C6-C5-N7	-5.93	126.84	130.40
1	N	146	G	C5'-C4'-C3'	-5.93	106.51	116.00
1	N	847	G	C3'-C2'-C1'	-5.93	96.75	101.50
1	N	1396	A	C5'-C4'-O4'	-5.93	101.98	109.10
1	N	1405	G	C6-N1-C2	-5.93	121.54	125.10
1	N	1468	A	C5-N7-C8	-5.93	100.93	103.90
1	N	262	A	N7-C8-N9	5.93	116.77	113.80
1	N	1432	G	N1-C2-N3	-5.93	120.34	123.90
1	N	412	A	O4'-C1'-N9	5.93	112.94	108.20
1	N	419	C	C6-N1-C2	-5.93	117.93	120.30
1	N	456	A	N7-C8-N9	5.93	116.77	113.80
1	N	495	A	C8-N9-C4	-5.93	103.43	105.80
1	N	610	U	C4-C5-C6	-5.93	116.14	119.70
1	N	1176	A	C6-C5-N7	-5.93	128.15	132.30
1	N	965	U	C2-N3-C4	-5.93	123.44	127.00
1	N	1330	U	N1-C2-N3	5.93	118.46	114.90
1	N	1473	G	C5-C6-N1	-5.93	108.54	111.50
1	N	1526	G	N3-C2-N2	5.93	124.05	119.90
1	N	535	A	C5'-C4'-O4'	5.93	116.21	109.10
1	N	925	G	N1-C2-N3	-5.93	120.34	123.90
1	N	997	U	P-O3'-C3'	5.93	126.81	119.70
1	N	57	G	C4-C5-N7	5.92	113.17	110.80
1	N	132	C	C4-C5-C6	5.92	120.36	117.40
1	N	449	G	C4-C5-N7	-5.92	108.43	110.80
1	N	454	G	C5-N7-C8	-5.92	101.34	104.30
1	N	1256	A	P-O3'-C3'	5.92	126.81	119.70
1	N	1482	G	O4'-C4'-C3'	-5.92	98.08	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1483	A	O4'-C4'-C3'	-5.92	98.08	104.00
1	N	1515	G	N3-C4-N9	-5.92	122.45	126.00
1	N	1235	U	C4'-C3'-C2'	-5.92	96.68	102.60
1	N	127	G	C5-C6-N1	-5.92	108.54	111.50
1	N	553	A	C5-N7-C8	5.92	106.86	103.90
1	N	803	G	C6-N1-C2	5.92	128.65	125.10
1	N	862	C	O4'-C1'-N1	5.92	112.94	108.20
1	N	1424	U	C5-C4-O4	-5.92	122.35	125.90
1	N	622	A	C5-N7-C8	5.92	106.86	103.90
1	N	627	G	C5-C6-N1	-5.92	108.54	111.50
1	N	70	U	N3-C4-C5	-5.92	111.05	114.60
1	N	86	G	C4-N9-C1'	5.92	134.19	126.50
1	N	255	G	O4'-C1'-N9	5.92	112.94	108.20
1	N	286	C	C5-C4-N4	-5.92	116.06	120.20
1	N	594	U	C2-N1-C1'	5.92	124.80	117.70
1	N	1061	G	C5-C6-N1	-5.92	108.54	111.50
1	N	1095	U	C2-N3-C4	5.92	130.55	127.00
1	N	1517	G	P-O5'-C5'	-5.92	111.43	120.90
1	N	306	A	N1-C2-N3	5.92	132.26	129.30
1	N	895	G	C4-N9-C1'	-5.92	118.81	126.50
1	N	919	A	C4'-C3'-C2'	-5.92	96.68	102.60
1	N	979	C	O4'-C1'-N1	5.92	112.93	108.20
1	N	890	G	P-O5'-C5'	5.92	130.36	120.90
1	N	33	A	O4'-C4'-C3'	-5.91	98.09	104.00
1	N	47	C	O4'-C1'-N1	5.91	112.93	108.20
1	N	259	G	C8-N9-C4	-5.91	104.03	106.40
1	N	851	G	OP2-P-O3'	5.91	118.21	105.20
1	N	865	A	C2'-C3'-O3'	5.91	123.16	113.70
1	N	865	A	P-O5'-C5'	-5.91	111.44	120.90
1	N	974	A	OP1-P-OP2	-5.91	110.73	119.60
1	N	1270	G	C4-C5-C6	-5.91	115.25	118.80
1	N	1199	U	N1-C2-O2	-5.91	118.66	122.80
1	N	1242	G	N1-C6-O6	5.91	123.45	119.90
1	N	1309	G	C8-N9-C4	-5.91	104.04	106.40
1	N	1383	C	N1-C2-N3	-5.91	115.06	119.20
1	N	327	A	C1'-O4'-C4'	5.91	114.63	109.90
1	N	431	A	O4'-C4'-C3'	-5.91	98.09	104.00
1	N	482	A	C5-C6-N6	-5.91	118.97	123.70
1	N	842	U	OP1-P-OP2	-5.91	110.74	119.60
1	N	1294	G	P-O5'-C5'	5.91	130.35	120.90
1	N	1326	U	OP1-P-OP2	-5.91	110.74	119.60
1	N	1448	C	N1-C2-N3	5.91	123.33	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	337	G	C1'-O4'-C4'	-5.91	105.17	109.90
1	N	838	G	C4-C5-C6	5.91	122.34	118.80
1	N	847	G	N3-C4-C5	-5.91	125.65	128.60
1	N	1266	G	C1'-O4'-C4'	-5.91	105.17	109.90
1	N	1432	G	C5-N7-C8	-5.91	101.35	104.30
1	N	290	C	C2-N3-C4	5.91	122.85	119.90
1	N	411	A	C6-N1-C2	5.91	122.14	118.60
1	N	423	G	O4'-C1'-N9	5.91	112.92	108.20
1	N	476	U	C5-C6-N1	5.91	125.65	122.70
1	N	494	G	C6-N1-C2	-5.91	121.56	125.10
1	N	607	A	C2-N3-C4	-5.90	107.65	110.60
1	N	616	G	P-O3'-C3'	-5.90	112.61	119.70
1	N	20	U	C2-N1-C1'	5.90	124.78	117.70
1	N	702	A	C5'-C4'-O4'	5.90	116.18	109.10
1	N	753	A	C4'-C3'-C2'	-5.90	96.70	102.60
1	N	774	G	O4'-C1'-N9	5.90	112.92	108.20
1	N	996	A	N7-C8-N9	-5.90	110.85	113.80
1	N	1104	G	N3-C2-N2	-5.90	115.77	119.90
1	N	1255	G	C5-N7-C8	-5.90	101.35	104.30
1	N	1422	G	C8-N9-C4	-5.90	104.04	106.40
1	N	7	A	O4'-C1'-N9	5.90	112.92	108.20
1	N	94	G	N9-C4-C5	5.90	107.76	105.40
1	N	191	G	C6-C5-N7	-5.90	126.86	130.40
1	N	866	C	N1-C2-N3	-5.90	115.07	119.20
1	N	1041	G	C4'-C3'-C2'	-5.90	96.70	102.60
1	N	1136	C	N1-C2-O2	5.90	122.44	118.90
1	N	1305	G	N1-C6-O6	5.90	123.44	119.90
1	N	328	C	C6-N1-C2	-5.90	117.94	120.30
1	N	760	G	C3'-C2'-C1'	-5.90	96.78	101.50
1	N	913	A	C5-C6-N1	-5.90	114.75	117.70
1	N	1072	G	P-O5'-C5'	5.90	130.34	120.90
1	N	1191	A	C4-N9-C1'	5.90	136.91	126.30
1	N	1195	C	C2-N1-C1'	5.90	125.29	118.80
1	N	1518	A	N1-C2-N3	-5.90	126.35	129.30
1	N	962	C	C5-C4-N4	-5.90	116.07	120.20
1	N	1180	A	C4-C5-N7	-5.90	107.75	110.70
1	N	281	G	C3'-C2'-C1'	5.89	106.22	101.50
1	N	527	G	C8-N9-C4	-5.89	104.04	106.40
1	N	967	C	C3'-C2'-C1'	5.89	106.22	101.50
1	N	1018	G	N9-C4-C5	5.89	107.76	105.40
1	N	1048	G	O4'-C1'-N9	5.89	112.92	108.20
1	N	1100	C	P-O5'-C5'	-5.89	111.47	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1138	G	C5-N7-C8	-5.89	101.35	104.30
1	N	993	G	C5'-C4'-C3'	-5.89	106.57	116.00
1	N	1141	C	N3-C2-O2	5.89	126.03	121.90
1	N	1375	A	C5'-C4'-C3'	-5.89	106.57	116.00
1	N	1291	U	C4'-C3'-C2'	-5.89	96.71	102.60
1	N	1509	C	C2-N3-C4	5.89	122.85	119.90
1	N	21	G	C5-C6-O6	-5.89	125.07	128.60
1	N	1206	G	O4'-C1'-N9	5.89	112.91	108.20
1	N	1482	G	P-O5'-C5'	5.89	130.32	120.90
1	N	1341	U	N1-C2-N3	5.89	118.43	114.90
1	N	31	G	O4'-C1'-N9	5.89	112.91	108.20
1	N	479	U	C5-C4-O4	5.89	129.43	125.90
1	N	624	C	C2-N1-C1'	5.89	125.28	118.80
1	N	672	U	P-O3'-C3'	-5.89	112.64	119.70
1	N	464	U	N3-C2-O2	5.88	126.32	122.20
1	N	1356	G	C4-C5-C6	5.88	122.33	118.80
1	N	187	G	C2-N3-C4	5.88	114.84	111.90
1	N	3	A	C6-N1-C2	-5.88	115.07	118.60
1	N	183	C	C5-C4-N4	-5.88	116.08	120.20
1	N	382	A	C6-N1-C2	-5.88	115.07	118.60
1	N	707	U	C5-C6-N1	5.88	125.64	122.70
1	N	856	C	C5-C4-N4	-5.88	116.08	120.20
1	N	1363	A	C5'-C4'-C3'	-5.88	106.59	116.00
1	N	1516	G	N9-C4-C5	-5.88	103.05	105.40
1	N	52	C	N3-C2-O2	-5.88	117.78	121.90
1	N	1021	A	C2-N3-C4	-5.88	107.66	110.60
1	N	96	U	C5-C4-O4	-5.88	122.37	125.90
1	N	246	A	C4-C5-C6	5.88	119.94	117.00
1	N	16	A	O4'-C1'-N9	5.88	112.90	108.20
1	N	641	U	O4'-C1'-C2'	5.88	112.89	107.60
1	N	1079	G	C5'-C4'-O4'	5.88	116.15	109.10
1	N	1145	A	C3'-C2'-C1'	5.88	106.20	101.50
1	N	1407	C	P-O5'-C5'	5.88	130.30	120.90
1	N	1503	A	C5-C6-N1	-5.88	114.76	117.70
1	N	129	A	C5-C6-N6	-5.88	119.00	123.70
1	N	247	G	N7-C8-N9	-5.88	110.16	113.10
1	N	330	C	C5'-C4'-C3'	-5.88	106.60	116.00
1	N	346	G	C5-N7-C8	-5.88	101.36	104.30
1	N	1362	A	C8-N9-C4	-5.88	103.45	105.80
1	N	530	G	N3-C2-N2	5.87	124.01	119.90
1	N	758	C	N3-C4-C5	-5.87	119.55	121.90
1	N	881	G	C2-N3-C4	5.87	114.84	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	888	G	N1-C6-O6	5.87	123.42	119.90
1	N	1340	A	C5-C6-N1	-5.87	114.76	117.70
1	N	1437	A	O4'-C1'-N9	5.87	112.90	108.20
1	N	214	C	C4-C5-C6	5.87	120.33	117.40
1	N	309	A	O4'-C1'-N9	5.87	112.90	108.20
1	N	371	A	C5-C6-N1	-5.87	114.77	117.70
1	N	1103	C	O4'-C1'-N1	5.87	112.90	108.20
1	N	455	G	C4-C5-N7	5.87	113.15	110.80
1	N	1000	A	N7-C8-N9	5.87	116.73	113.80
1	N	1244	G	C5-C6-N1	-5.87	108.56	111.50
1	N	1428	A	N1-C2-N3	5.87	132.24	129.30
1	N	177	G	C8-N9-C4	-5.87	104.05	106.40
1	N	224	U	N1-C2-O2	-5.87	118.69	122.80
1	N	692	U	C1'-O4'-C4'	-5.87	105.21	109.90
1	N	1066	C	N3-C4-C5	5.87	124.25	121.90
1	N	1099	G	C2-N3-C4	5.87	114.83	111.90
1	N	174	A	O4'-C1'-N9	5.87	112.89	108.20
1	N	754	C	O4'-C4'-C3'	5.87	110.79	106.10
1	N	943	U	C6-N1-C1'	-5.87	112.99	121.20
1	N	1188	A	C5-C6-N6	-5.87	119.01	123.70
1	N	532	A	C4'-C3'-C2'	-5.86	96.74	102.60
1	N	858	G	O4'-C1'-C2'	-5.86	99.94	105.80
1	N	1038	C	O4'-C1'-N1	5.86	112.89	108.20
1	N	1175	G	N7-C8-N9	-5.86	110.17	113.10
1	N	1240	U	N3-C4-C5	-5.86	111.08	114.60
1	N	1373	G	C6-N1-C2	5.86	128.62	125.10
1	N	154	U	C4-C5-C6	-5.86	116.18	119.70
1	N	179	A	C4-C5-N7	5.86	113.63	110.70
1	N	290	C	P-O3'-C3'	-5.86	112.67	119.70
1	N	867	G	P-O5'-C5'	5.86	130.28	120.90
1	N	884	U	P-O5'-C5'	5.86	130.28	120.90
1	N	1265	C	P-O5'-C5'	5.86	130.28	120.90
1	N	54	C	N3-C4-N4	5.86	122.10	118.00
1	N	823	C	O4'-C1'-N1	5.86	112.89	108.20
1	N	1300	G	N9-C1'-C2'	5.86	121.62	114.00
1	N	394	G	N1-C2-N3	-5.86	120.39	123.90
1	N	195	A	C1'-O4'-C4'	-5.86	105.21	109.90
1	N	586	C	C5-C4-N4	-5.86	116.10	120.20
1	N	775	G	C4-C5-C6	5.86	122.31	118.80
1	N	1148	U	OP1-P-O3'	5.86	118.08	105.20
1	N	1365	G	P-O5'-C5'	-5.86	111.53	120.90
1	N	131	A	C5-N7-C8	5.86	106.83	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	186	C	N1-C2-O2	-5.86	115.39	118.90
1	N	1010	U	N3-C4-O4	5.86	123.50	119.40
1	N	1247	U	C2-N3-C4	5.86	130.51	127.00
1	N	1289	A	C5-N7-C8	5.86	106.83	103.90
1	N	176	C	C5-C6-N1	-5.85	118.07	121.00
1	N	778	G	C8-N9-C4	5.85	108.74	106.40
1	N	844	G	O4'-C1'-C2'	5.85	112.87	107.60
1	N	1326	U	P-O3'-C3'	-5.85	112.67	119.70
1	N	222	C	O4'-C4'-C3'	-5.85	98.15	104.00
1	N	387	U	C5-C4-O4	-5.85	122.39	125.90
1	N	914	A	C5-C6-N6	-5.85	119.02	123.70
1	N	1062	U	C5-C4-O4	-5.85	122.39	125.90
1	N	1132	C	C6-N1-C1'	-5.85	113.78	120.80
1	N	373	A	OP1-P-OP2	-5.85	110.82	119.60
1	N	1243	C	N3-C4-N4	5.85	122.10	118.00
1	N	12	U	O4'-C1'-N1	5.85	112.88	108.20
1	N	177	G	N3-C4-N9	-5.85	122.49	126.00
1	N	1271	A	C3'-C2'-C1'	-5.85	96.82	101.50
1	N	58	C	C4-C5-C6	-5.85	114.48	117.40
1	N	150	U	C2-N3-C4	-5.85	123.49	127.00
1	N	203	G	N1-C2-N3	-5.85	120.39	123.90
1	N	454	G	O4'-C1'-N9	5.85	112.88	108.20
1	N	573	A	P-O5'-C5'	-5.85	111.54	120.90
1	N	829	G	N1-C2-N2	-5.85	110.94	116.20
1	N	44	A	N3-C4-N9	5.84	132.08	127.40
1	N	274	A	C1'-O4'-C4'	5.84	114.58	109.90
1	N	376	G	C6-C5-N7	-5.84	126.89	130.40
1	N	645	G	C2-N3-C4	-5.84	108.98	111.90
1	N	1217	C	O4'-C1'-N1	5.84	112.88	108.20
1	N	1295	U	C5-C4-O4	-5.84	122.39	125.90
1	N	212	G	O4'-C4'-C3'	-5.84	98.16	104.00
1	N	572	A	C6-C5-N7	-5.84	128.21	132.30
1	N	821	G	P-O3'-C3'	-5.84	112.69	119.70
1	N	1433	A	N1-C6-N6	5.84	122.11	118.60
1	N	903	G	C1'-O4'-C4'	5.84	114.57	109.90
1	N	1190	G	C8-N9-C4	-5.84	104.06	106.40
1	N	1504	G	O4'-C1'-N9	-5.84	103.53	108.20
1	N	461	A	C8-N9-C4	-5.84	103.47	105.80
1	N	1051	C	O4'-C4'-C3'	-5.84	98.16	104.00
1	N	1377	A	O4'-C1'-N9	5.84	112.87	108.20
1	N	272	C	O4'-C1'-N1	5.83	112.87	108.20
1	N	578	C	C5-C4-N4	-5.83	116.12	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	792	A	O4'-C1'-N9	5.83	112.87	108.20
1	N	899	C	C5-C6-N1	5.83	123.92	121.00
1	N	1018	G	N1-C6-O6	5.83	123.40	119.90
1	N	1378	C	O4'-C1'-N1	5.83	112.87	108.20
1	N	1495	U	C2-N3-C4	5.83	130.50	127.00
1	N	809	G	C5-C6-N1	-5.83	108.58	111.50
1	N	1240	U	N3-C2-O2	5.83	126.28	122.20
1	N	1350	A	N3-C4-N9	5.83	132.06	127.40
1	N	1431	A	O4'-C1'-N9	5.83	112.86	108.20
1	N	1533	C	C5-C4-N4	-5.83	116.12	120.20
1	N	62	U	N3-C2-O2	5.83	126.28	122.20
1	N	164	G	C5-C6-O6	-5.83	125.10	128.60
1	N	166	U	C3'-C2'-C1'	-5.83	96.84	101.50
1	N	724	G	O4'-C1'-N9	5.83	112.86	108.20
1	N	960	U	N1-C2-N3	-5.83	111.40	114.90
1	N	1233	G	N1-C2-N2	-5.83	110.95	116.20
1	N	1331	G	C8-N9-C4	-5.83	104.07	106.40
1	N	1375	A	C8-N9-C4	-5.83	103.47	105.80
1	N	71	A	N7-C8-N9	-5.83	110.89	113.80
1	N	372	C	C5-C6-N1	5.82	123.91	121.00
1	N	1184	G	N3-C4-N9	5.82	129.50	126.00
1	N	1184	G	N9-C4-C5	-5.82	103.07	105.40
1	N	768	A	C2-N3-C4	-5.82	107.69	110.60
1	N	6	G	N7-C8-N9	5.82	116.01	113.10
1	N	282	A	N3-C4-C5	-5.82	122.72	126.80
1	N	565	U	P-O5'-C5'	-5.82	111.59	120.90
1	N	968	A	O4'-C1'-N9	5.82	112.86	108.20
1	N	1106	G	C4-C5-N7	5.82	113.13	110.80
1	N	1173	U	C4'-C3'-C2'	-5.82	96.78	102.60
1	N	1245	C	C2-N3-C4	5.82	122.81	119.90
1	N	1506	U	C4'-C3'-C2'	5.82	108.42	102.60
1	N	786	G	N9-C4-C5	5.82	107.73	105.40
1	N	1349	A	C4-C5-N7	-5.82	107.79	110.70
1	N	1400	C	P-O3'-C3'	5.82	126.68	119.70
1	N	180	U	N3-C4-O4	5.82	123.47	119.40
1	N	262	A	N1-C6-N6	5.82	122.09	118.60
1	N	440	C	C2'-C3'-O3'	5.82	123.01	113.70
1	N	469	C	N3-C4-N4	5.82	122.07	118.00
1	N	794	A	P-O3'-C3'	-5.82	112.72	119.70
1	N	910	C	P-O5'-C5'	5.82	130.21	120.90
1	N	1181	G	C4-C5-N7	5.82	113.13	110.80
1	N	1184	G	C6-C5-N7	-5.82	126.91	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1491	G	C6-C5-N7	-5.82	126.91	130.40
1	N	126	G	O4'-C4'-C3'	-5.82	98.18	104.00
1	N	1115	U	C4-C5-C6	5.82	123.19	119.70
1	N	1221	G	P-O5'-C5'	-5.82	111.59	120.90
1	N	310	G	OP1-P-OP2	-5.81	110.88	119.60
1	N	524	G	P-O3'-C3'	5.81	126.68	119.70
1	N	1222	G	N3-C2-N2	5.81	123.97	119.90
1	N	49	U	C5-C6-N1	5.81	125.61	122.70
1	N	128	G	C6-N1-C2	5.81	128.59	125.10
1	N	302	G	N7-C8-N9	-5.81	110.19	113.10
1	N	804	U	C5'-C4'-O4'	5.81	116.08	109.10
1	N	978	A	C3'-C2'-C1'	5.81	106.15	101.50
1	N	1111	A	C6-N1-C2	5.81	122.09	118.60
1	N	1254	A	C4-C5-C6	5.81	119.91	117.00
1	N	1254	A	C6-C5-N7	-5.81	128.23	132.30
1	N	1304	G	C8-N9-C4	-5.81	104.08	106.40
1	N	72	A	C3'-C2'-C1'	5.81	106.15	101.50
1	N	83	C	C4-C5-C6	5.81	120.31	117.40
1	N	617	G	N1-C6-O6	5.81	123.39	119.90
1	N	346	G	C4-C5-N7	5.81	113.12	110.80
1	N	522	C	C6-N1-C2	-5.81	117.98	120.30
1	N	612	C	N1-C2-O2	5.81	122.39	118.90
1	N	632	U	C6-N1-C2	-5.81	117.52	121.00
1	N	700	G	OP1-P-OP2	-5.81	110.89	119.60
1	N	184	G	N1-C2-N3	-5.81	120.42	123.90
1	N	663	A	C3'-C2'-C1'	-5.81	96.86	101.50
1	N	1314	C	C6-N1-C2	-5.81	117.98	120.30
1	N	488	C	C4-C5-C6	5.80	120.30	117.40
1	N	618	C	N3-C4-C5	-5.80	119.58	121.90
1	N	1175	G	N3-C4-N9	5.80	129.48	126.00
1	N	1279	G	C5-C6-N1	5.80	114.40	111.50
1	N	1407	C	C6-N1-C2	5.80	122.62	120.30
1	N	581	G	OP2-P-O3'	5.80	117.97	105.20
1	N	104	G	N3-C4-C5	-5.80	125.70	128.60
1	N	291	U	N1-C2-O2	5.80	126.86	122.80
1	N	454	G	C5'-C4'-C3'	-5.80	106.72	116.00
1	N	469	C	P-O5'-C5'	-5.80	111.62	120.90
1	N	556	C	N3-C4-N4	5.80	122.06	118.00
1	N	1346	A	C5-C6-N6	-5.80	119.06	123.70
1	N	1519	A	O4'-C4'-C3'	-5.80	98.20	104.00
1	N	266	G	C4'-C3'-C2'	5.80	108.40	102.60
1	N	1262	C	N1-C2-O2	5.80	122.38	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1504	G	N1-C2-N2	5.80	121.42	116.20
1	N	777	A	C8-N9-C4	5.80	108.12	105.80
1	N	237	G	C4'-C3'-C2'	-5.80	96.80	102.60
1	N	408	A	O4'-C4'-C3'	-5.80	98.20	104.00
1	N	929	G	O4'-C1'-N9	5.80	112.84	108.20
1	N	1064	G	C5'-C4'-O4'	5.80	116.06	109.10
1	N	1078	U	P-O3'-C3'	5.80	126.66	119.70
1	N	1389	C	C2-N3-C4	-5.80	117.00	119.90
1	N	500	G	C5-C6-N1	-5.79	108.60	111.50
1	N	585	G	N1-C2-N3	-5.79	120.42	123.90
1	N	898	G	C8-N9-C4	-5.79	104.08	106.40
1	N	1272	G	N1-C2-N2	5.79	121.41	116.20
1	N	1297	G	C1'-O4'-C4'	-5.79	105.27	109.90
1	N	1363	A	C5-N7-C8	5.79	106.80	103.90
1	N	351	G	N3-C4-C5	-5.79	125.70	128.60
1	N	515	G	C2-N3-C4	-5.79	109.00	111.90
1	N	553	A	O4'-C1'-N9	5.79	112.83	108.20
1	N	742	G	C5'-C4'-C3'	5.79	125.27	116.00
1	N	1030	U	C6-N1-C2	-5.79	117.53	121.00
1	N	1432	G	P-O3'-C3'	5.79	126.65	119.70
1	N	444	G	O4'-C1'-N9	5.79	112.83	108.20
1	N	597	G	P-O5'-C5'	-5.79	111.64	120.90
1	N	986	U	N3-C4-O4	5.79	123.45	119.40
1	N	433	G	O4'-C1'-N9	5.79	112.83	108.20
1	N	505	G	P-O3'-C3'	5.79	126.65	119.70
1	N	647	C	C3'-C2'-C1'	-5.79	96.87	101.50
1	N	1160	G	C3'-C2'-C1'	5.79	106.13	101.50
1	N	1179	A	C4-C5-N7	-5.79	107.81	110.70
1	N	1196	A	OP2-P-O3'	5.79	117.93	105.20
1	N	1346	A	C6-C5-N7	-5.79	128.25	132.30
1	N	72	A	C2-N3-C4	-5.79	107.71	110.60
1	N	1364	U	N1-C2-O2	-5.79	118.75	122.80
1	N	31	G	N9-C4-C5	-5.79	103.09	105.40
1	N	97	G	N3-C4-C5	-5.79	125.71	128.60
1	N	1007	U	O4'-C1'-N1	5.79	112.83	108.20
1	N	1116	U	C5-C6-N1	5.79	125.59	122.70
1	N	450	G	C6-C5-N7	-5.78	126.93	130.40
1	N	858	G	C4'-C3'-C2'	-5.78	96.82	102.60
1	N	1019	A	P-O3'-C3'	-5.78	112.76	119.70
1	N	1156	G	C3'-C2'-C1'	5.78	106.13	101.50
1	N	1378	C	C5-C4-N4	-5.78	116.15	120.20
1	N	1381	U	C2-N3-C4	5.78	130.47	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	304	U	C2-N3-C4	5.78	130.47	127.00
1	N	747	A	O4'-C1'-N9	5.78	112.83	108.20
1	N	366	A	N3-C4-N9	5.78	132.02	127.40
1	N	876	C	O5'-C5'-C4'	-5.78	100.72	111.70
1	N	1245	C	C4'-C3'-C2'	-5.78	96.82	102.60
1	N	1529	G	C6-N1-C2	5.78	128.57	125.10
1	N	184	G	C4-N9-C1'	5.78	134.01	126.50
1	N	278	G	C4-C5-C6	5.78	122.27	118.80
1	N	811	C	C5'-C4'-O4'	5.78	116.03	109.10
1	N	949	A	C8-N9-C4	5.78	108.11	105.80
1	N	1333	A	C4'-C3'-C2'	-5.78	96.82	102.60
1	N	1334	G	C2-N3-C4	5.78	114.79	111.90
1	N	5	U	N1-C2-N3	-5.78	111.43	114.90
1	N	13	U	N1-C2-O2	-5.78	118.75	122.80
1	N	216	U	C4'-C3'-C2'	-5.78	96.82	102.60
1	N	344	A	N7-C8-N9	5.78	116.69	113.80
1	N	493	A	N9-C4-C5	5.78	108.11	105.80
1	N	889	A	P-O3'-C3'	5.78	126.63	119.70
1	N	1140	C	N3-C4-N4	5.78	122.05	118.00
1	N	1438	G	N1-C2-N3	-5.78	120.43	123.90
1	N	264	C	N1-C1'-C2'	-5.78	105.65	112.00
1	N	782	A	C4-C5-N7	-5.78	107.81	110.70
1	N	901	A	C5-C6-N1	-5.78	114.81	117.70
1	N	1006	G	O4'-C4'-C3'	-5.78	98.22	104.00
1	N	1493	A	C5-C6-N1	-5.77	114.81	117.70
1	N	100	G	C4-C5-C6	5.77	122.26	118.80
1	N	115	G	C4'-C3'-C2'	5.77	108.37	102.60
1	N	178	C	C2-N3-C4	5.77	122.79	119.90
1	N	378	G	O4'-C4'-C3'	-5.77	98.23	104.00
1	N	537	G	O4'-C4'-C3'	-5.77	98.23	104.00
1	N	1029	U	N3-C4-C5	5.77	118.06	114.60
1	N	1033	G	C1'-O4'-C4'	5.77	114.52	109.90
1	N	1227	A	C1'-O4'-C4'	-5.77	105.28	109.90
1	N	1444	U	P-O5'-C5'	5.77	130.13	120.90
1	N	1488	G	C8-N9-C1'	5.77	134.50	127.00
1	N	462	G	C1'-O4'-C4'	5.77	114.52	109.90
1	N	353	A	C4'-C3'-C2'	-5.77	96.83	102.60
1	N	484	G	O3'-P-O5'	5.77	114.96	104.00
1	N	935	A	C5'-C4'-O4'	-5.77	102.18	109.10
1	N	1272	G	N3-C4-N9	-5.77	122.54	126.00
1	N	1491	G	N1-C2-N2	5.77	121.39	116.20
1	N	14	U	C6-N1-C1'	-5.77	113.12	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	212	G	O5'-C5'-C4'	-5.77	100.74	111.70
1	N	439	U	C2-N1-C1'	5.77	124.62	117.70
1	N	476	U	N1-C2-N3	5.77	118.36	114.90
1	N	763	G	P-O5'-C5'	5.77	130.13	120.90
1	N	784	A	N3-C4-C5	-5.77	122.76	126.80
1	N	790	A	C4-C5-N7	5.77	113.58	110.70
1	N	824	G	N9-C4-C5	-5.77	103.09	105.40
1	N	1466	C	C4-C5-C6	5.77	120.28	117.40
1	N	449	G	P-O5'-C5'	5.77	130.12	120.90
1	N	995	C	O4'-C1'-N1	5.77	112.81	108.20
1	N	1100	C	C3'-C2'-C1'	5.77	106.11	101.50
1	N	1439	G	N9-C4-C5	-5.77	103.09	105.40
1	N	294	U	C3'-C2'-C1'	-5.76	96.89	101.50
1	N	855	U	N3-C4-O4	5.76	123.44	119.40
1	N	856	C	C6-N1-C2	-5.76	117.99	120.30
1	N	875	U	C2-N3-C4	5.76	130.46	127.00
1	N	1329	A	C2-N3-C4	5.76	113.48	110.60
1	N	10	A	P-O5'-C5'	5.76	130.12	120.90
1	N	1283	U	C2-N1-C1'	-5.76	110.78	117.70
1	N	1413	A	C4-C5-N7	-5.76	107.82	110.70
1	N	258	G	C6-C5-N7	5.76	133.86	130.40
1	N	502	A	C6-N1-C2	-5.76	115.14	118.60
1	N	677	U	C3'-C2'-C1'	-5.76	96.89	101.50
1	N	707	U	O4'-C1'-N1	5.76	112.81	108.20
1	N	1482	G	P-O3'-C3'	5.76	126.61	119.70
1	N	19	A	C5-C6-N6	-5.76	119.09	123.70
1	N	1161	C	N3-C4-C5	-5.76	119.60	121.90
1	N	1237	C	C2-N3-C4	5.76	122.78	119.90
1	N	199	A	C6-C5-N7	-5.76	128.27	132.30
1	N	353	A	N9-C1'-C2'	-5.76	105.67	112.00
1	N	786	G	N1-C2-N3	-5.76	120.44	123.90
1	N	86	G	N7-C8-N9	5.76	115.98	113.10
1	N	120	A	C5'-C4'-C3'	5.76	125.21	116.00
1	N	198	G	C4-C5-C6	5.76	122.25	118.80
1	N	260	G	C5-C6-N1	-5.76	108.62	111.50
1	N	558	G	C1'-O4'-C4'	5.76	114.51	109.90
1	N	580	C	P-O5'-C5'	5.76	130.11	120.90
1	N	1432	G	N3-C4-C5	5.76	131.48	128.60
1	N	60	A	N1-C2-N3	-5.75	126.42	129.30
1	N	183	C	C3'-C2'-C1'	5.75	106.10	101.50
1	N	507	C	N1-C2-N3	5.75	123.23	119.20
1	N	711	G	O4'-C1'-N9	5.75	112.80	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1262	C	C5-C6-N1	5.75	123.88	121.00
1	N	554	A	C6-C5-N7	-5.75	128.27	132.30
1	N	605	U	N3-C4-O4	5.75	123.43	119.40
1	N	616	G	C4'-C3'-C2'	-5.75	96.85	102.60
1	N	619	U	N3-C2-O2	5.75	126.23	122.20
1	N	1003	G	P-O3'-C3'	5.75	126.60	119.70
1	N	1057	G	C4'-C3'-C2'	-5.75	96.85	102.60
1	N	1205	U	P-O5'-C5'	5.75	130.11	120.90
1	N	1225	A	N1-C6-N6	5.75	122.05	118.60
1	N	1233	G	N9-C1'-C2'	-5.75	105.67	112.00
1	N	1336	C	N3-C4-N4	5.75	122.03	118.00
1	N	224	U	C2-N3-C4	-5.75	123.55	127.00
1	N	425	G	N9-C4-C5	-5.75	103.10	105.40
1	N	472	U	O4'-C1'-N1	5.75	112.80	108.20
1	N	1153	G	C5-C6-N1	-5.75	108.62	111.50
1	N	1208	C	C5'-C4'-O4'	5.75	116.00	109.10
1	N	1244	G	N9-C4-C5	-5.75	103.10	105.40
1	N	1269	A	C5-N7-C8	5.75	106.78	103.90
1	N	1339	A	N1-C6-N6	5.75	122.05	118.60
1	N	76	G	C5-N7-C8	5.75	107.17	104.30
1	N	982	U	N3-C4-O4	5.75	123.42	119.40
1	N	388	G	C1'-O4'-C4'	5.75	114.50	109.90
1	N	835	U	N3-C4-C5	-5.75	111.15	114.60
1	N	939	G	C8-N9-C1'	5.75	134.47	127.00
1	N	1108	G	N1-C2-N2	5.75	121.37	116.20
1	N	156	C	C6-N1-C2	-5.75	118.00	120.30
1	N	202	G	C6-N1-C2	5.75	128.55	125.10
1	N	509	A	C5'-C4'-O4'	5.75	116.00	109.10
1	N	975	A	N1-C6-N6	5.75	122.05	118.60
1	N	1425	U	O4'-C1'-N1	5.75	112.80	108.20
1	N	68	G	N3-C4-C5	5.75	131.47	128.60
1	N	848	C	C2-N3-C4	-5.75	117.03	119.90
1	N	845	A	C5-C6-N1	-5.74	114.83	117.70
1	N	607	A	C4'-C3'-C2'	5.74	108.34	102.60
1	N	669	G	O5'-C5'-C4'	-5.74	100.79	111.70
1	N	782	A	C4-C5-C6	5.74	119.87	117.00
1	N	428	G	N1-C2-N3	-5.74	120.46	123.90
1	N	442	G	N1-C6-O6	5.74	123.34	119.90
1	N	522	C	C2-N1-C1'	5.74	125.11	118.80
1	N	1041	G	P-O5'-C5'	5.74	130.08	120.90
1	N	1257	A	N9-C4-C5	5.74	108.10	105.80
1	N	1443	C	C6-N1-C2	-5.74	118.00	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1449	C	N3-C4-N4	5.74	122.02	118.00
1	N	1491	G	N1-C2-N3	-5.74	120.46	123.90
1	N	235	C	N3-C4-C5	-5.74	119.61	121.90
1	N	867	G	P-O3'-C3'	5.74	126.59	119.70
1	N	918	A	O4'-C1'-N9	5.74	112.79	108.20
1	N	1131	G	N1-C2-N3	-5.74	120.46	123.90
1	N	1307	U	N1-C2-N3	-5.74	111.46	114.90
1	N	1455	G	N3-C2-N2	-5.74	115.88	119.90
1	N	180	U	C2-N1-C1'	-5.74	110.81	117.70
1	N	262	A	N9-C4-C5	5.74	108.09	105.80
1	N	388	G	N1-C2-N2	-5.74	111.04	116.20
1	N	1412	C	C4'-C3'-C2'	-5.74	96.86	102.60
1	N	22	G	C5-N7-C8	5.74	107.17	104.30
1	N	187	G	C4-N9-C1'	-5.74	119.04	126.50
1	N	199	A	N7-C8-N9	5.74	116.67	113.80
1	N	682	G	N3-C4-C5	5.74	131.47	128.60
1	N	684	U	C6-N1-C2	-5.74	117.56	121.00
1	N	886	G	P-O3'-C3'	5.74	126.58	119.70
1	N	1043	G	N3-C4-C5	-5.74	125.73	128.60
1	N	1052	U	P-O3'-C3'	5.74	126.58	119.70
1	N	1395	C	O4'-C4'-C3'	-5.74	98.27	104.00
1	N	397	A	C2'-C3'-O3'	5.73	122.87	113.70
1	N	65	A	N1-C6-N6	5.73	122.04	118.60
1	N	319	G	N9-C4-C5	-5.73	103.11	105.40
1	N	332	G	N1-C2-N3	-5.73	120.46	123.90
1	N	1059	C	C1'-O4'-C4'	5.73	114.49	109.90
1	N	1211	U	C4'-C3'-C2'	-5.73	96.87	102.60
1	N	71	A	C5-N7-C8	5.73	106.77	103.90
1	N	525	C	C5-C4-N4	-5.73	116.19	120.20
1	N	540	G	N1-C2-N3	-5.73	120.46	123.90
1	N	1047	G	C5'-C4'-O4'	5.73	115.98	109.10
1	N	1156	G	C6-C5-N7	-5.73	126.96	130.40
1	N	1166	G	N1-C2-N3	-5.73	120.46	123.90
1	N	1449	C	C5-C6-N1	5.73	123.86	121.00
1	N	722	G	C6-C5-N7	-5.73	126.96	130.40
1	N	1059	C	C6-N1-C1'	-5.73	113.92	120.80
1	N	1180	A	C5-N7-C8	5.73	106.76	103.90
1	N	402	G	N1-C2-N3	-5.73	120.46	123.90
1	N	1203	C	C5-C6-N1	5.73	123.86	121.00
1	N	565	U	N3-C4-C5	5.73	118.04	114.60
1	N	778	G	C8-N9-C1'	-5.73	119.56	127.00
1	N	889	A	C8-N9-C4	-5.73	103.51	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1364	U	O4'-C1'-C2'	-5.73	100.07	105.80
1	N	393	A	C8-N9-C4	-5.72	103.51	105.80
1	N	504	C	C6-N1-C2	-5.72	118.01	120.30
1	N	1291	U	N1-C2-O2	-5.72	118.79	122.80
1	N	292	G	C3'-C2'-C1'	5.72	106.08	101.50
1	N	308	C	C5-C6-N1	5.72	123.86	121.00
1	N	1315	U	C2-N3-C4	-5.72	123.57	127.00
1	N	1495	U	C5-C6-N1	5.72	125.56	122.70
1	N	1481	U	P-O3'-C3'	-5.72	112.83	119.70
1	N	310	G	C2-N3-C4	5.72	114.76	111.90
1	N	1072	G	C4-N9-C1'	-5.72	119.06	126.50
1	N	1306	A	C3'-C2'-C1'	5.72	106.08	101.50
1	N	645	G	C4-N9-C1'	-5.72	119.07	126.50
1	N	1024	G	C8-N9-C1'	5.72	134.43	127.00
1	N	1400	C	N1-C2-O2	5.72	122.33	118.90
1	N	1041	G	N3-C4-N9	5.72	129.43	126.00
1	N	1055	A	C2-N3-C4	5.72	113.46	110.60
1	N	1253	G	P-O5'-C5'	5.72	130.05	120.90
1	N	198	G	C1'-O4'-C4'	5.71	114.47	109.90
1	N	262	A	C5-N7-C8	-5.71	101.04	103.90
1	N	582	C	O5'-C5'-C4'	-5.71	100.84	111.70
1	N	673	A	C8-N9-C4	-5.71	103.51	105.80
1	N	1202	U	N3-C4-C5	5.71	118.03	114.60
1	N	1497	G	C4-C5-N7	-5.71	108.51	110.80
1	N	977	A	N7-C8-N9	-5.71	110.94	113.80
1	N	1251	A	N1-C2-N3	5.71	132.16	129.30
1	N	1525	G	C8-N9-C4	-5.71	104.11	106.40
1	N	92	U	C3'-C2'-C1'	5.71	106.07	101.50
1	N	428	G	C6-C5-N7	-5.71	126.97	130.40
1	N	628	G	N9-C4-C5	5.71	107.68	105.40
1	N	1039	G	C1'-O4'-C4'	5.71	114.47	109.90
1	N	1092	A	N3-C4-C5	-5.71	122.80	126.80
1	N	1205	U	N3-C4-C5	5.71	118.03	114.60
1	N	509	A	O4'-C4'-C3'	-5.71	98.29	104.00
1	N	524	G	C4-N9-C1'	5.71	133.92	126.50
1	N	1118	U	C6-N1-C2	-5.71	117.58	121.00
1	N	1143	G	N3-C4-C5	5.71	131.45	128.60
1	N	1323	G	O5'-P-OP2	-5.71	100.56	105.70
1	N	1446	A	C5-N7-C8	5.71	106.75	103.90
1	N	1388	C	O4'-C4'-C3'	-5.71	98.30	104.00
1	N	589	U	N1-C2-O2	-5.70	118.81	122.80
1	N	861	G	N9-C1'-C2'	-5.70	105.73	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1020	G	N1-C2-N3	-5.70	120.48	123.90
1	N	1032	G	C8-N9-C1'	-5.70	119.59	127.00
1	N	1343	G	C1'-O4'-C4'	-5.70	105.34	109.90
1	N	1493	A	N3-C4-N9	-5.70	122.84	127.40
1	N	86	G	C4'-C3'-C2'	-5.70	96.90	102.60
1	N	82	G	C4-N9-C1'	5.70	133.91	126.50
1	N	171	A	C4-C5-C6	5.70	119.85	117.00
1	N	300	A	C6-C5-N7	-5.70	128.31	132.30
1	N	447	G	C8-N9-C4	-5.70	104.12	106.40
1	N	1356	G	N3-C2-N2	-5.70	115.91	119.90
1	N	1452	C	C6-N1-C2	-5.70	118.02	120.30
1	N	1333	A	C6-N1-C2	5.70	122.02	118.60
1	N	271	C	C2-N3-C4	-5.70	117.05	119.90
1	N	614	C	C4-C5-C6	-5.70	114.55	117.40
1	N	629	A	C4-C5-C6	5.70	119.85	117.00
1	N	978	A	P-O3'-C3'	5.70	126.54	119.70
1	N	1134	G	C4-N9-C1'	-5.70	119.09	126.50
1	N	1510	C	C6-N1-C1'	-5.70	113.96	120.80
1	N	334	C	O4'-C1'-N1	5.70	112.76	108.20
1	N	377	G	C2-N3-C4	-5.70	109.05	111.90
1	N	912	C	N3-C4-C5	-5.70	119.62	121.90
1	N	956	U	N1-C1'-C2'	-5.70	105.73	112.00
1	N	375	U	C2-N3-C4	5.69	130.42	127.00
1	N	595	A	P-O5'-C5'	5.69	130.01	120.90
1	N	838	G	C5'-C4'-O4'	5.69	115.93	109.10
1	N	1524	C	O4'-C4'-C3'	-5.69	98.31	104.00
1	N	134	G	O4'-C1'-N9	5.69	112.75	108.20
1	N	510	A	O4'-C1'-N9	5.69	112.75	108.20
1	N	734	G	C1'-O4'-C4'	-5.69	105.35	109.90
1	N	785	G	C5-C6-O6	-5.69	125.18	128.60
1	N	903	G	N9-C4-C5	-5.69	103.12	105.40
1	N	1034	G	N9-C4-C5	-5.69	103.12	105.40
1	N	1035	A	C5'-C4'-O4'	5.69	115.93	109.10
1	N	175	C	N3-C4-C5	-5.69	119.62	121.90
1	N	278	G	C6-C5-N7	-5.69	126.99	130.40
1	N	511	C	C4-C5-C6	-5.69	114.55	117.40
1	N	650	G	C5'-C4'-C3'	-5.69	106.89	116.00
1	N	725	G	C6-C5-N7	-5.69	126.99	130.40
1	N	1031	C	C5-C6-N1	5.69	123.85	121.00
1	N	1188	A	N3-C4-C5	-5.69	122.82	126.80
1	N	1370	G	C8-N9-C4	-5.69	104.12	106.40
1	N	364	A	P-O5'-C5'	-5.69	111.80	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	680	C	C5'-C4'-O4'	5.69	115.93	109.10
1	N	1386	G	C4'-C3'-C2'	-5.69	96.91	102.60
1	N	787	A	C2-N3-C4	-5.69	107.76	110.60
1	N	830	G	C6-C5-N7	-5.69	126.99	130.40
1	N	959	A	C5-C6-N6	-5.69	119.15	123.70
1	N	1472	U	C6-N1-C2	-5.69	117.59	121.00
1	N	1088	G	O4'-C4'-C3'	-5.69	98.31	104.00
1	N	1347	G	N3-C4-N9	5.69	129.41	126.00
1	N	227	G	C6-C5-N7	-5.68	126.99	130.40
1	N	796	C	O4'-C1'-N1	5.68	112.75	108.20
1	N	1085	U	C2'-C3'-O3'	5.68	122.80	113.70
1	N	1101	A	C2-N3-C4	-5.68	107.76	110.60
1	N	1222	G	C8-N9-C4	5.68	108.67	106.40
1	N	1499	A	C6-C5-N7	-5.68	128.32	132.30
1	N	527	G	O4'-C1'-N9	5.68	112.75	108.20
1	N	822	U	O4'-C1'-N1	5.68	112.75	108.20
1	N	1241	G	P-O5'-C5'	5.68	129.99	120.90
1	N	1452	C	C5-C6-N1	5.68	123.84	121.00
1	N	137	U	C5-C4-O4	5.68	129.31	125.90
1	N	901	A	N1-C6-N6	5.68	122.01	118.60
1	N	1326	U	N1-C2-O2	-5.68	118.82	122.80
1	N	21	G	C8-N9-C1'	-5.68	119.62	127.00
1	N	312	C	C1'-O4'-C4'	5.68	114.44	109.90
1	N	1171	A	N1-C2-N3	-5.68	126.46	129.30
1	N	3	A	C5-C6-N1	-5.68	114.86	117.70
1	N	110	C	P-O3'-C3'	5.68	126.51	119.70
1	N	1249	C	N3-C2-O2	-5.68	117.92	121.90
1	N	1401	G	C2-N3-C4	5.68	114.74	111.90
1	N	410	G	C2-N3-C4	5.68	114.74	111.90
1	N	624	C	N3-C4-N4	5.68	121.97	118.00
1	N	1198	G	N1-C2-N3	-5.68	120.49	123.90
1	N	1377	A	N3-C4-N9	5.68	131.94	127.40
1	N	57	G	C4'-C3'-C2'	-5.67	96.93	102.60
1	N	111	G	N3-C4-N9	-5.67	122.60	126.00
1	N	132	C	N3-C4-N4	5.67	121.97	118.00
1	N	446	G	C8-N9-C4	-5.67	104.13	106.40
1	N	818	G	N7-C8-N9	5.67	115.94	113.10
1	N	823	C	C2-N3-C4	5.67	122.74	119.90
1	N	831	A	N1-C2-N3	5.67	132.14	129.30
1	N	1503	A	C5-N7-C8	-5.67	101.06	103.90
1	N	836	G	N1-C6-O6	5.67	123.30	119.90
1	N	895	G	C8-N9-C1'	5.67	134.37	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	963	G	C4-C5-N7	5.67	113.07	110.80
1	N	1437	A	C5-N7-C8	5.67	106.74	103.90
1	N	1444	U	C6-N1-C2	-5.67	117.60	121.00
1	N	1314	C	C2-N3-C4	5.67	122.73	119.90
1	N	207	C	N3-C4-N4	5.67	121.97	118.00
1	N	213	G	C8-N9-C1'	-5.67	119.63	127.00
1	N	326	G	C5-C6-O6	-5.67	125.20	128.60
1	N	328	C	C4-C5-C6	5.67	120.23	117.40
1	N	628	G	C8-N9-C4	-5.67	104.13	106.40
1	N	643	C	C5-C4-N4	-5.67	116.23	120.20
1	N	1257	A	C5-N7-C8	5.67	106.73	103.90
1	N	1269	A	C5-C6-N1	-5.67	114.86	117.70
1	N	1349	A	C5-N7-C8	5.67	106.73	103.90
1	N	1440	U	C4'-C3'-C2'	-5.67	96.93	102.60
1	N	8	A	C8-N9-C4	5.67	108.07	105.80
1	N	139	A	N1-C2-N3	-5.67	126.47	129.30
1	N	842	U	C4-C5-C6	-5.67	116.30	119.70
1	N	1519	A	C5-N7-C8	5.67	106.73	103.90
1	N	592	G	N1-C2-N3	-5.67	120.50	123.90
1	N	406	G	C6-N1-C2	-5.66	121.70	125.10
1	N	717	U	O3'-P-O5'	-5.66	93.24	104.00
1	N	1339	A	C2-N3-C4	-5.66	107.77	110.60
1	N	1355	G	C4-N9-C1'	-5.66	119.14	126.50
1	N	1421	G	N1-C2-N3	-5.66	120.50	123.90
1	N	1530	G	C3'-C2'-C1'	5.66	106.03	101.50
1	N	462	G	O4'-C1'-C2'	-5.66	100.14	105.80
1	N	542	G	C4-C5-N7	-5.66	108.53	110.80
1	N	642	A	C6-N1-C2	-5.66	115.20	118.60
1	N	1311	A	N9-C1'-C2'	-5.66	105.77	112.00
1	N	374	A	N1-C2-N3	5.66	132.13	129.30
1	N	432	A	N1-C2-N3	5.66	132.13	129.30
1	N	741	G	N3-C4-C5	5.66	131.43	128.60
1	N	946	A	C6-N1-C2	5.66	122.00	118.60
1	N	1006	G	P-O3'-C3'	-5.66	112.91	119.70
1	N	1316	G	O4'-C1'-N9	5.66	112.73	108.20
1	N	8	A	P-O5'-C5'	-5.66	111.85	120.90
1	N	174	A	N1-C2-N3	5.66	132.13	129.30
1	N	306	A	O4'-C1'-N9	5.66	112.73	108.20
1	N	466	A	O3'-P-O5'	5.66	114.75	104.00
1	N	492	C	C6-N1-C1'	-5.66	114.01	120.80
1	N	1050	G	C4-C5-C6	5.66	122.19	118.80
1	N	1080	A	C6-N1-C2	5.66	122.00	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1105	A	N3-C4-N9	-5.66	122.87	127.40
1	N	1423	G	C8-N9-C4	5.66	108.66	106.40
1	N	100	G	N9-C4-C5	5.66	107.66	105.40
1	N	303	A	N1-C2-N3	5.66	132.13	129.30
1	N	729	A	N9-C4-C5	5.66	108.06	105.80
1	N	960	U	C1'-O4'-C4'	-5.66	105.37	109.90
1	N	1234	C	N1-C2-N3	5.66	123.16	119.20
1	N	276	G	C4-C5-C6	5.66	122.19	118.80
1	N	321	A	C5-C6-N6	-5.66	119.18	123.70
1	N	1245	C	C4-C5-C6	5.66	120.23	117.40
1	N	1424	U	C2-N3-C4	-5.66	123.61	127.00
1	N	1502	A	C5-N7-C8	5.66	106.73	103.90
1	N	1345	U	C2-N1-C1'	5.65	124.48	117.70
1	N	619	U	C4-C5-C6	-5.65	116.31	119.70
1	N	708	C	C4'-C3'-C2'	-5.65	96.95	102.60
1	N	797	C	C2-N3-C4	5.65	122.73	119.90
1	N	1223	C	O5'-C5'-C4'	5.65	122.44	111.70
1	N	156	C	C4-C5-C6	-5.65	114.58	117.40
1	N	358	U	C3'-C2'-C1'	-5.65	96.98	101.50
1	N	668	G	N3-C4-C5	5.65	131.43	128.60
1	N	822	U	O5'-C5'-C4'	-5.65	100.96	111.70
1	N	1074	G	O4'-C1'-N9	5.65	112.72	108.20
1	N	116	A	O4'-C4'-C3'	-5.65	98.35	104.00
1	N	865	A	C6-N1-C2	-5.65	115.21	118.60
1	N	1217	C	C5'-C4'-O4'	5.65	115.88	109.10
1	N	18	C	C2-N3-C4	5.65	122.72	119.90
1	N	791	G	N3-C2-N2	5.65	123.85	119.90
1	N	798	U	N1-C2-N3	-5.65	111.51	114.90
1	N	847	G	N3-C4-N9	5.65	129.39	126.00
1	N	1050	G	C4'-C3'-C2'	-5.65	96.95	102.60
1	N	1355	G	OP1-P-OP2	-5.65	111.13	119.60
1	N	328	C	C1'-O4'-C4'	-5.65	105.38	109.90
1	N	771	G	N1-C2-N2	-5.65	111.12	116.20
1	N	957	U	C5-C6-N1	5.65	125.52	122.70
1	N	110	C	C5-C4-N4	-5.64	116.25	120.20
1	N	706	A	C6-C5-N7	-5.64	128.35	132.30
1	N	1167	A	N1-C6-N6	5.64	121.99	118.60
1	N	1524	C	C5-C6-N1	5.64	123.82	121.00
1	N	70	U	C2-N3-C4	-5.64	123.61	127.00
1	N	126	G	N3-C2-N2	5.64	123.85	119.90
1	N	857	C	C6-N1-C2	-5.64	118.04	120.30
1	N	1427	C	N3-C2-O2	5.64	125.85	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	319	G	N3-C4-C5	-5.64	125.78	128.60
1	N	951	G	O4'-C1'-N9	5.64	112.71	108.20
1	N	75	G	N9-C4-C5	5.64	107.66	105.40
1	N	295	C	C2-N1-C1'	5.64	125.00	118.80
1	N	1101	A	N1-C2-N3	5.64	132.12	129.30
1	N	1239	A	C5'-C4'-O4'	5.64	115.87	109.10
1	N	85	U	C4-C5-C6	5.64	123.08	119.70
1	N	1050	G	C6-N1-C2	5.64	128.48	125.10
1	N	1094	G	C4-C5-N7	-5.64	108.55	110.80
1	N	59	A	P-O3'-C3'	5.64	126.46	119.70
1	N	462	G	N3-C2-N2	5.64	123.84	119.90
1	N	772	U	O4'-C4'-C3'	-5.64	98.36	104.00
1	N	918	A	C5-N7-C8	5.64	106.72	103.90
1	N	1089	G	C5'-C4'-C3'	-5.64	106.98	116.00
1	N	144	G	N9-C4-C5	-5.63	103.15	105.40
1	N	516	U	N1-C2-N3	-5.63	111.52	114.90
1	N	1024	G	C5-C6-N1	-5.63	108.68	111.50
1	N	1209	C	P-O5'-C5'	5.63	129.92	120.90
1	N	1332	A	P-O5'-C5'	-5.63	111.89	120.90
1	N	1358	U	C1'-O4'-C4'	5.63	114.41	109.90
1	N	905	U	O4'-C1'-N1	5.63	112.70	108.20
1	N	1246	A	P-O3'-C3'	-5.63	112.94	119.70
1	N	1248	A	N1-C6-N6	5.63	121.98	118.60
1	N	1274	A	N3-C4-C5	-5.63	122.86	126.80
1	N	58	C	C6-N1-C2	-5.63	118.05	120.30
1	N	98	A	C5'-C4'-C3'	-5.63	106.99	116.00
1	N	946	A	O4'-C1'-N9	5.63	112.70	108.20
1	N	223	A	C5'-C4'-C3'	-5.63	107.00	116.00
1	N	298	A	C5-C6-N6	-5.63	119.20	123.70
1	N	629	A	N7-C8-N9	5.63	116.61	113.80
1	N	1138	G	C6-N1-C2	5.63	128.48	125.10
1	N	104	G	N3-C2-N2	5.63	123.84	119.90
1	N	446	G	O4'-C1'-C2'	5.63	112.66	107.60
1	N	1181	G	N3-C2-N2	5.63	123.84	119.90
1	N	770	C	C2-N3-C4	5.62	122.71	119.90
1	N	891	U	C2-N3-C4	-5.62	123.62	127.00
1	N	1274	A	C6-C5-N7	-5.62	128.36	132.30
1	N	1296	C	N1-C2-O2	-5.62	115.53	118.90
1	N	22	G	C5-C6-O6	-5.62	125.23	128.60
1	N	542	G	N9-C4-C5	5.62	107.65	105.40
1	N	664	G	C5-C6-N1	-5.62	108.69	111.50
1	N	1419	G	N9-C1'-C2'	-5.62	105.81	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	527	G	C6-C5-N7	-5.62	127.03	130.40
1	N	585	G	P-O5'-C5'	-5.62	111.90	120.90
1	N	784	A	C4-C5-C6	5.62	119.81	117.00
1	N	1243	C	C6-N1-C2	5.62	122.55	120.30
1	N	1472	U	N1-C2-N3	5.62	118.27	114.90
1	N	1519	A	C6-N1-C2	5.62	121.97	118.60
1	N	68	G	C4-C5-C6	5.62	122.17	118.80
1	N	867	G	C4-N9-C1'	5.62	133.81	126.50
1	N	1205	U	P-O3'-C3'	-5.62	112.96	119.70
1	N	106	C	C6-N1-C2	-5.62	118.05	120.30
1	N	826	C	C6-N1-C2	5.62	122.55	120.30
1	N	244	U	C2-N3-C4	-5.62	123.63	127.00
1	N	817	C	N3-C4-C5	-5.62	119.65	121.90
1	N	1175	G	N3-C4-C5	-5.62	125.79	128.60
1	N	53	A	C4-C5-C6	5.62	119.81	117.00
1	N	118	U	C5-C4-O4	-5.62	122.53	125.90
1	N	1266	G	N1-C2-N3	-5.62	120.53	123.90
1	N	1479	C	C6-N1-C2	5.62	122.55	120.30
1	N	339	C	O5'-C5'-C4'	-5.61	101.03	111.70
1	N	919	A	O4'-C1'-N9	5.61	112.69	108.20
1	N	954	G	C8-N9-C4	-5.61	104.16	106.40
1	N	1122	U	O4'-C1'-N1	5.61	112.69	108.20
1	N	1291	U	N3-C2-O2	5.61	126.13	122.20
1	N	172	A	C4'-C3'-C2'	5.61	108.21	102.60
1	N	260	G	C8-N9-C4	-5.61	104.16	106.40
1	N	334	C	N1-C2-O2	-5.61	115.53	118.90
1	N	644	U	OP1-P-OP2	-5.61	111.18	119.60
1	N	929	G	C2-N3-C4	5.61	114.70	111.90
1	N	1118	U	C5'-C4'-C3'	5.61	124.98	116.00
1	N	1507	A	N1-C2-N3	5.61	132.10	129.30
1	N	47	C	OP1-P-OP2	-5.61	111.19	119.60
1	N	836	G	P-O3'-C3'	5.61	126.43	119.70
1	N	1302	C	C4'-C3'-C2'	5.61	108.21	102.60
1	N	162	A	C5-C6-N6	-5.61	119.21	123.70
1	N	285	C	C3'-C2'-C1'	-5.61	97.01	101.50
1	N	354	G	N7-C8-N9	5.61	115.90	113.10
1	N	835	U	N3-C4-O4	5.61	123.33	119.40
1	N	949	A	O5'-P-OP2	-5.61	100.65	105.70
1	N	958	A	C4-C5-N7	-5.61	107.90	110.70
1	N	1109	C	P-O3'-C3'	5.61	126.43	119.70
1	N	1329	A	N7-C8-N9	-5.61	111.00	113.80
1	N	1370	G	O4'-C1'-N9	5.61	112.69	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1408	A	N3-C4-C5	-5.61	122.88	126.80
1	N	1032	G	C8-N9-C4	5.61	108.64	106.40
1	N	1410	A	N1-C2-N3	5.60	132.10	129.30
1	N	140	U	P-O5'-C5'	5.60	129.86	120.90
1	N	1360	A	P-O3'-C3'	5.60	126.42	119.70
1	N	248	C	N3-C4-C5	-5.60	119.66	121.90
1	N	349	A	C4-C5-N7	-5.60	107.90	110.70
1	N	1394	A	C5-C6-N6	-5.60	119.22	123.70
1	N	1440	U	O5'-P-OP2	5.60	117.42	110.70
1	N	130	A	C4-C5-N7	-5.60	107.90	110.70
1	N	1239	A	P-O3'-C3'	5.60	126.42	119.70
1	N	220	G	N1-C2-N3	-5.60	120.54	123.90
1	N	595	A	C1'-O4'-C4'	-5.60	105.42	109.90
1	N	635	A	C5-N7-C8	5.60	106.70	103.90
1	N	696	A	N7-C8-N9	5.60	116.60	113.80
1	N	777	A	C5-C6-N6	-5.60	119.22	123.70
1	N	1407	C	C4'-C3'-C2'	-5.60	97.00	102.60
1	N	1484	C	P-O5'-C5'	5.60	129.86	120.90
1	N	227	G	C4-N9-C1'	-5.59	119.23	126.50
1	N	288	A	N7-C8-N9	5.59	116.60	113.80
1	N	509	A	O4'-C1'-N9	5.59	112.68	108.20
1	N	558	G	C6-C5-N7	-5.59	127.04	130.40
1	N	767	A	N3-C4-C5	-5.59	122.88	126.80
1	N	1071	C	O4'-C1'-C2'	-5.59	100.21	105.80
1	N	1377	A	C6-C5-N7	-5.59	128.38	132.30
1	N	3	A	OP1-P-OP2	-5.59	111.21	119.60
1	N	180	U	C5-C4-O4	-5.59	122.54	125.90
1	N	792	A	C5-C6-N6	-5.59	119.23	123.70
1	N	1092	A	C1'-O4'-C4'	5.59	114.37	109.90
1	N	21	G	C5-C6-N1	-5.59	108.70	111.50
1	N	449	G	C8-N9-C4	-5.59	104.16	106.40
1	N	563	A	C5-C6-N6	-5.59	119.23	123.70
1	N	572	A	N1-C2-N3	5.59	132.09	129.30
1	N	1296	C	C4-C5-C6	-5.59	114.60	117.40
1	N	767	A	N7-C8-N9	-5.59	111.01	113.80
1	N	893	C	N3-C4-C5	-5.59	119.66	121.90
1	N	896	C	C5'-C4'-O4'	5.59	115.81	109.10
1	N	1065	U	N3-C2-O2	-5.59	118.29	122.20
1	N	1245	C	N3-C2-O2	5.59	125.81	121.90
1	N	1358	U	C5-C4-O4	-5.59	122.55	125.90
1	N	766	A	O3'-P-O5'	-5.59	93.38	104.00
1	N	790	A	C8-N9-C1'	-5.59	117.64	127.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	803	G	C4-C5-C6	5.59	122.15	118.80
1	N	811	C	C4'-C3'-C2'	-5.59	97.01	102.60
1	N	844	G	C5-C6-O6	-5.59	125.25	128.60
1	N	914	A	N7-C8-N9	-5.59	111.01	113.80
1	N	1286	U	C2-N3-C4	-5.59	123.65	127.00
1	N	1454	G	C5-N7-C8	5.59	107.09	104.30
1	N	359	G	C2-N3-C4	5.58	114.69	111.90
1	N	502	A	N7-C8-N9	5.58	116.59	113.80
1	N	870	U	N1-C2-O2	-5.58	118.89	122.80
1	N	107	G	C6-C5-N7	-5.58	127.05	130.40
1	N	375	U	N3-C2-O2	5.58	126.11	122.20
1	N	705	G	C4-C5-C6	5.58	122.15	118.80
1	N	727	G	N3-C2-N2	5.58	123.81	119.90
1	N	1146	A	P-O3'-C3'	-5.58	113.00	119.70
1	N	138	G	C6-N1-C2	5.58	128.45	125.10
1	N	353	A	N3-C4-N9	-5.58	122.94	127.40
1	N	406	G	C8-N9-C4	5.58	108.63	106.40
1	N	468	A	C4-N9-C1'	5.58	136.35	126.30
1	N	941	G	N3-C4-C5	5.58	131.39	128.60
1	N	1456	A	O4'-C4'-C3'	-5.58	98.42	104.00
1	N	1511	G	N3-C4-N9	-5.58	122.65	126.00
1	N	622	A	C6-N1-C2	5.58	121.95	118.60
1	N	844	G	P-O3'-C3'	5.58	126.40	119.70
1	N	1018	G	O4'-C1'-N9	5.58	112.66	108.20
1	N	1464	U	C5'-C4'-C3'	-5.58	107.07	116.00
1	N	520	A	N1-C6-N6	5.58	121.95	118.60
1	N	641	U	C2'-C3'-O3'	5.58	122.63	113.70
1	N	944	G	C6-C5-N7	-5.58	127.05	130.40
1	N	1419	G	C4-C5-C6	5.58	122.15	118.80
1	N	154	U	C5-C6-N1	5.58	125.49	122.70
1	N	714	G	C1'-O4'-C4'	5.58	114.36	109.90
1	N	802	A	N1-C2-N3	5.58	132.09	129.30
1	N	803	G	C6-C5-N7	-5.58	127.06	130.40
1	N	808	C	O5'-P-OP1	5.58	117.39	110.70
1	N	1436	U	C5'-C4'-C3'	5.58	124.92	116.00
1	N	102	G	O4'-C4'-C3'	-5.57	98.43	104.00
1	N	422	C	N1-C2-O2	5.57	122.24	118.90
1	N	473	U	C6-N1-C2	5.57	124.34	121.00
1	N	1320	C	N3-C4-N4	5.57	121.90	118.00
1	N	16	A	C8-N9-C4	-5.57	103.57	105.80
1	N	177	G	P-O3'-C3'	-5.57	113.01	119.70
1	N	400	C	C4'-C3'-C2'	-5.57	97.03	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1119	C	N1-C2-O2	-5.57	115.56	118.90
1	N	1294	G	O4'-C4'-C3'	-5.57	98.43	104.00
1	N	530	G	C6-C5-N7	-5.57	127.06	130.40
1	N	809	G	C4-N9-C1'	-5.57	119.26	126.50
1	N	844	G	OP1-P-OP2	-5.57	111.25	119.60
1	N	1056	U	C2'-C3'-O3'	5.57	122.61	113.70
1	N	1069	C	C6-N1-C2	5.57	122.53	120.30
1	N	118	U	P-O5'-C5'	5.57	129.81	120.90
1	N	755	G	P-O3'-C3'	-5.57	113.02	119.70
1	N	834	U	N1-C1'-C2'	-5.57	105.88	112.00
1	N	1504	G	N3-C4-C5	5.57	131.38	128.60
1	N	143	A	C4-C5-C6	5.57	119.78	117.00
1	N	1196	A	C1'-O4'-C4'	-5.57	105.45	109.90
1	N	52	C	N1-C2-O2	5.56	122.24	118.90
1	N	579	A	C2-N3-C4	-5.56	107.82	110.60
1	N	586	C	C6-N1-C2	5.56	122.53	120.30
1	N	688	G	O4'-C1'-N9	5.56	112.65	108.20
1	N	1095	U	N1-C2-N3	-5.56	111.56	114.90
1	N	649	A	C6-N1-C2	5.56	121.94	118.60
1	N	688	G	P-O5'-C5'	5.56	129.80	120.90
1	N	690	G	P-O5'-C5'	5.56	129.80	120.90
1	N	857	C	C2-N3-C4	-5.56	117.12	119.90
1	N	1017	U	N3-C2-O2	5.56	126.09	122.20
1	N	1094	G	C4'-C3'-C2'	-5.56	97.04	102.60
1	N	1356	G	N1-C6-O6	5.56	123.24	119.90
1	N	333	U	C2-N3-C4	5.56	130.34	127.00
1	N	607	A	O4'-C4'-C3'	-5.56	98.44	104.00
1	N	814	A	P-O5'-C5'	-5.56	112.00	120.90
1	N	165	G	P-O3'-C3'	-5.56	113.03	119.70
1	N	247	G	N1-C6-O6	5.56	123.24	119.90
1	N	569	C	N3-C4-N4	5.56	121.89	118.00
1	N	571	U	N3-C2-O2	5.56	126.09	122.20
1	N	630	A	C5-C6-N6	-5.56	119.25	123.70
1	N	723	U	C2-N1-C1'	5.56	124.37	117.70
1	N	908	A	C6-N1-C2	5.56	121.94	118.60
1	N	1058	G	N3-C4-N9	5.56	129.34	126.00
1	N	63	C	O4'-C1'-C2'	5.56	112.60	107.60
1	N	305	G	C5-C6-O6	-5.56	125.27	128.60
1	N	1282	C	C1'-O4'-C4'	5.56	114.35	109.90
1	N	1484	C	C2-N3-C4	5.56	122.68	119.90
1	N	188	C	O4'-C4'-C3'	-5.55	98.45	104.00
1	N	374	A	C6-N1-C2	-5.55	115.27	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	480	U	C2-N3-C4	-5.55	123.67	127.00
1	N	1169	A	C1'-O4'-C4'	-5.55	105.46	109.90
1	N	1177	G	C5-C6-N1	-5.55	108.72	111.50
1	N	1341	U	N3-C4-O4	5.55	123.29	119.40
1	N	1466	C	N3-C2-O2	5.55	125.79	121.90
1	N	251	G	C4-N9-C1'	5.55	133.72	126.50
1	N	474	G	N1-C2-N3	-5.55	120.57	123.90
1	N	1054	C	O4'-C1'-N1	5.55	112.64	108.20
1	N	133	U	O4'-C1'-N1	5.55	112.64	108.20
1	N	299	G	C1'-O4'-C4'	5.55	114.34	109.90
1	N	352	C	P-O3'-C3'	-5.55	113.04	119.70
1	N	1069	C	C2-N3-C4	5.55	122.68	119.90
1	N	1523	G	P-O3'-C3'	-5.55	113.04	119.70
1	N	583	A	C8-N9-C4	-5.55	103.58	105.80
1	N	687	A	C4-N9-C1'	-5.55	116.31	126.30
1	N	997	U	OP1-P-O3'	5.55	117.41	105.20
1	N	1148	U	N1-C2-N3	-5.55	111.57	114.90
1	N	1206	G	C4-C5-N7	5.55	113.02	110.80
1	N	1243	C	P-O5'-C5'	5.55	129.78	120.90
1	N	1420	U	C6-N1-C2	-5.55	117.67	121.00
1	N	493	A	C4'-C3'-C2'	5.55	108.15	102.60
1	N	933	G	C4'-C3'-C2'	-5.55	97.05	102.60
1	N	1115	U	O5'-C5'-C4'	-5.55	101.16	111.70
1	N	1335	U	N1-C2-O2	5.55	126.68	122.80
1	N	844	G	C3'-C2'-C1'	-5.55	97.06	101.50
1	N	1026	G	C4-C5-C6	5.55	122.13	118.80
1	N	1138	G	C5-C6-O6	-5.55	125.27	128.60
1	N	81	A	C6-C5-N7	-5.54	128.42	132.30
1	N	247	G	N1-C2-N2	5.54	121.19	116.20
1	N	293	G	P-O5'-C5'	5.54	129.77	120.90
1	N	500	G	C5-N7-C8	-5.54	101.53	104.30
1	N	502	A	C5-C6-N6	-5.54	119.27	123.70
1	N	543	U	N3-C4-O4	5.54	123.28	119.40
1	N	861	G	N7-C8-N9	5.54	115.87	113.10
1	N	1386	G	C5-C6-O6	-5.54	125.27	128.60
1	N	359	G	C5'-C4'-O4'	5.54	115.75	109.10
1	N	410	G	C8-N9-C4	-5.54	104.18	106.40
1	N	744	C	N3-C4-N4	5.54	121.88	118.00
1	N	780	A	C2'-C3'-O3'	5.54	122.57	113.70
1	N	1371	G	O4'-C1'-N9	5.54	112.63	108.20
1	N	447	G	C4-C5-C6	-5.54	115.48	118.80
1	N	718	A	C3'-C2'-C1'	5.54	105.93	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	93	U	N1-C1'-C2'	-5.54	105.91	112.00
1	N	606	G	C1'-O4'-C4'	5.54	114.33	109.90
1	N	621	A	C4'-C3'-C2'	-5.54	97.06	102.60
1	N	1365	G	C3'-C2'-C1'	5.54	105.93	101.50
1	N	1475	G	N9-C4-C5	5.54	107.61	105.40
1	N	883	C	C5-C6-N1	5.54	123.77	121.00
1	N	1460	C	P-O5'-C5'	5.54	129.76	120.90
1	N	27	G	C5-C6-O6	-5.54	125.28	128.60
1	N	95	C	N1-C2-O2	5.54	122.22	118.90
1	N	311	C	N1-C1'-C2'	-5.54	105.91	112.00
1	N	523	A	C4-C5-C6	-5.54	114.23	117.00
1	N	536	C	N3-C4-N4	5.54	121.88	118.00
1	N	639	G	C5-N7-C8	-5.54	101.53	104.30
1	N	872	A	C4'-C3'-C2'	-5.54	97.06	102.60
1	N	1329	A	C4-C5-C6	5.54	119.77	117.00
1	N	1371	G	C2-N3-C4	-5.54	109.13	111.90
1	N	1416	G	C6-N1-C2	5.54	128.42	125.10
1	N	63	C	N3-C4-N4	5.53	121.87	118.00
1	N	123	U	C2-N3-C4	5.53	130.32	127.00
1	N	1038	C	P-O3'-C3'	5.53	126.34	119.70
1	N	1227	A	C5'-C4'-C3'	-5.53	107.15	116.00
1	N	1509	C	N3-C4-N4	5.53	121.87	118.00
1	N	373	A	C5'-C4'-O4'	-5.53	102.46	109.10
1	N	703	G	C6-C5-N7	-5.53	127.08	130.40
1	N	860	A	C6-N1-C2	5.53	121.92	118.60
1	N	991	U	O4'-C1'-C2'	-5.53	100.27	105.80
1	N	1076	U	O4'-C1'-N1	5.53	112.62	108.20
1	N	1191	A	C4-C5-C6	5.53	119.77	117.00
1	N	1351	U	C4-C5-C6	-5.53	116.38	119.70
1	N	1357	A	C5-C6-N6	-5.53	119.28	123.70
1	N	342	C	C5'-C4'-C3'	5.53	124.85	116.00
1	N	892	A	OP1-P-O3'	5.53	117.36	105.20
1	N	1346	A	C2-N3-C4	-5.53	107.84	110.60
1	N	1357	A	C1'-O4'-C4'	5.53	114.32	109.90
1	N	55	A	P-O3'-C3'	-5.53	113.07	119.70
1	N	181	A	C8-N9-C4	5.53	108.01	105.80
1	N	360	G	C2'-C3'-O3'	5.53	122.55	113.70
1	N	540	G	P-O3'-C3'	5.53	126.33	119.70
1	N	786	G	P-O3'-C3'	5.53	126.33	119.70
1	N	995	C	P-O3'-C3'	-5.53	113.07	119.70
1	N	1181	G	C4-N9-C1'	5.53	133.69	126.50
1	N	1214	C	N3-C4-C5	-5.53	119.69	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1227	A	C2-N3-C4	-5.53	107.84	110.60
1	N	290	C	C2'-C3'-O3'	5.53	122.54	113.70
1	N	510	A	C6-C5-N7	-5.53	128.43	132.30
1	N	512	U	N3-C4-O4	5.53	123.27	119.40
1	N	737	C	C5'-C4'-O4'	5.53	115.73	109.10
1	N	812	G	C5-N7-C8	5.53	107.06	104.30
1	N	891	U	N1-C2-O2	-5.53	118.93	122.80
1	N	1037	C	OP1-P-O3'	5.53	117.36	105.20
1	N	1291	U	C5-C4-O4	5.53	129.22	125.90
1	N	589	U	C2-N3-C4	-5.52	123.69	127.00
1	N	1406	U	C6-N1-C1'	-5.52	113.47	121.20
1	N	171	A	O4'-C1'-N9	5.52	112.62	108.20
1	N	372	C	OP1-P-O3'	5.52	117.35	105.20
1	N	1420	U	C1'-O4'-C4'	5.52	114.32	109.90
1	N	1497	G	N3-C4-N9	-5.52	122.69	126.00
1	N	130	A	C2-N3-C4	-5.52	107.84	110.60
1	N	172	A	C2'-C3'-O3'	5.52	122.53	113.70
1	N	744	C	C6-N1-C2	-5.52	118.09	120.30
1	N	1024	G	O4'-C1'-N9	5.52	112.62	108.20
1	N	1368	A	C4'-C3'-C2'	-5.52	97.08	102.60
1	N	1061	G	N3-C4-C5	5.52	131.36	128.60
1	N	1266	G	N3-C2-N2	5.52	123.76	119.90
1	N	26	A	O3'-P-O5'	-5.52	93.52	104.00
1	N	247	G	C5-N7-C8	5.52	107.06	104.30
1	N	367	U	C5-C6-N1	-5.52	119.94	122.70
1	N	741	G	P-O3'-C3'	5.52	126.32	119.70
1	N	863	U	N1-C2-N3	-5.52	111.59	114.90
1	N	998	C	C4'-C3'-C2'	-5.52	97.08	102.60
1	N	1039	G	O4'-C4'-C3'	-5.52	98.48	104.00
1	N	1155	A	C4-C5-N7	5.52	113.46	110.70
1	N	1256	A	C3'-C2'-C1'	-5.52	97.09	101.50
1	N	1285	A	C5-N7-C8	5.52	106.66	103.90
1	N	1394	A	P-O3'-C3'	5.52	126.32	119.70
1	N	428	G	C4'-C3'-C2'	5.52	108.12	102.60
1	N	797	C	O4'-C1'-N1	5.52	112.61	108.20
1	N	911	U	N1-C2-N3	5.52	118.21	114.90
1	N	287	U	C4'-C3'-C2'	-5.51	97.09	102.60
1	N	351	G	N1-C6-O6	5.51	123.21	119.90
1	N	412	A	N9-C4-C5	-5.51	103.59	105.80
1	N	426	U	C4'-C3'-C2'	-5.51	97.09	102.60
1	N	705	G	N7-C8-N9	-5.51	110.34	113.10
1	N	835	U	P-O3'-C3'	-5.51	113.08	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	996	A	C5-N7-C8	5.51	106.66	103.90
1	N	1224	U	N3-C2-O2	-5.51	118.34	122.20
1	N	1249	C	C4'-C3'-C2'	-5.51	97.08	102.60
1	N	1293	C	C3'-C2'-C1'	-5.51	97.09	101.50
1	N	1368	A	N3-C4-C5	-5.51	122.94	126.80
1	N	1518	A	C4-C5-C6	5.51	119.76	117.00
1	N	26	A	C5-C6-N1	-5.51	114.94	117.70
1	N	260	G	C6-C5-N7	-5.51	127.09	130.40
1	N	497	G	C5-N7-C8	5.51	107.06	104.30
1	N	772	U	C4-C5-C6	5.51	123.01	119.70
1	N	1405	G	O4'-C4'-C3'	-5.51	98.49	104.00
1	N	104	G	C4'-C3'-C2'	-5.51	97.09	102.60
1	N	258	G	O4'-C1'-C2'	-5.51	100.29	105.80
1	N	66	A	N9-C4-C5	5.51	108.00	105.80
1	N	343	U	N3-C4-C5	-5.51	111.30	114.60
1	N	758	C	C4-C5-C6	5.51	120.15	117.40
1	N	1324	A	C4-C5-N7	-5.51	107.95	110.70
1	N	1341	U	P-O3'-C3'	5.51	126.31	119.70
1	N	145	G	N1-C2-N3	-5.51	120.60	123.90
1	N	145	G	N3-C4-C5	5.51	131.35	128.60
1	N	245	U	N3-C4-O4	5.51	123.25	119.40
1	N	976	G	N3-C4-C5	-5.51	125.85	128.60
1	N	1373	G	C5-C6-O6	-5.51	125.30	128.60
1	N	1433	A	O3'-P-O5'	-5.51	93.54	104.00
1	N	72	A	P-O3'-C3'	5.50	126.31	119.70
1	N	407	U	C5-C6-N1	5.50	125.45	122.70
1	N	705	G	N1-C2-N3	-5.50	120.60	123.90
1	N	1391	U	C5'-C4'-O4'	5.50	115.70	109.10
1	N	306	A	N1-C6-N6	5.50	121.90	118.60
1	N	397	A	N1-C2-N3	-5.50	126.55	129.30
1	N	449	G	C4-C5-C6	5.50	122.10	118.80
1	N	836	G	P-O5'-C5'	-5.50	112.09	120.90
1	N	953	G	O4'-C1'-N9	5.50	112.60	108.20
1	N	1356	G	P-O3'-C3'	5.50	126.31	119.70
1	N	274	A	C2'-C3'-O3'	5.50	122.50	113.70
1	N	358	U	O4'-C1'-N1	5.50	112.60	108.20
1	N	762	U	C5-C4-O4	-5.50	122.60	125.90
1	N	767	A	P-O5'-C5'	5.50	129.70	120.90
1	N	719	C	C2-N3-C4	-5.50	117.15	119.90
1	N	223	A	OP1-P-OP2	-5.50	111.35	119.60
1	N	310	G	C1'-O4'-C4'	-5.50	105.50	109.90
1	N	361	G	C8-N9-C4	-5.50	104.20	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	549	C	N1-C2-O2	5.50	122.20	118.90
1	N	1050	G	P-O3'-C3'	-5.50	113.10	119.70
1	N	1209	C	C5'-C4'-C3'	-5.50	107.20	116.00
1	N	712	A	C5-N7-C8	-5.50	101.15	103.90
1	N	797	C	O4'-C1'-C2'	5.50	112.55	107.60
1	N	896	C	N3-C4-N4	5.50	121.85	118.00
1	N	942	G	C6-C5-N7	-5.50	127.10	130.40
1	N	1327	C	C2-N1-C1'	5.50	124.85	118.80
1	N	1494	G	P-O3'-C3'	-5.50	113.11	119.70
1	N	210	C	N3-C4-C5	-5.50	119.70	121.90
1	N	701	U	C2-N3-C4	-5.50	123.70	127.00
1	N	1330	U	N1-C2-O2	-5.50	118.95	122.80
1	N	298	A	P-O3'-C3'	5.49	126.29	119.70
1	N	473	U	C5-C6-N1	-5.49	119.95	122.70
1	N	622	A	N1-C2-N3	-5.49	126.55	129.30
1	N	950	U	O4'-C1'-N1	5.49	112.59	108.20
1	N	1238	A	C5-C6-N6	-5.49	119.31	123.70
1	N	1266	G	C5-C6-N1	-5.49	108.75	111.50
1	N	1282	C	C3'-C2'-C1'	5.49	105.89	101.50
1	N	1348	U	P-O3'-C3'	-5.49	113.11	119.70
1	N	1361	G	N1-C2-N3	-5.49	120.60	123.90
1	N	1471	U	N3-C4-C5	-5.49	111.30	114.60
1	N	121	U	C5'-C4'-O4'	5.49	115.69	109.10
1	N	1053	G	N3-C2-N2	-5.49	116.06	119.90
1	N	1309	G	C6-C5-N7	-5.49	127.11	130.40
1	N	348	G	N9-C4-C5	5.49	107.59	105.40
1	N	565	U	C2-N3-C4	-5.49	123.71	127.00
1	N	668	G	C3'-C2'-C1'	5.49	105.89	101.50
1	N	734	G	C5-C6-N1	-5.49	108.75	111.50
1	N	975	A	C1'-O4'-C4'	-5.49	105.51	109.90
1	N	731	G	N3-C4-C5	5.49	131.34	128.60
1	N	1171	A	P-O3'-C3'	5.49	126.28	119.70
1	N	399	G	C3'-C2'-C1'	-5.49	97.11	101.50
1	N	658	C	C2-N3-C4	5.49	122.64	119.90
1	N	915	A	C4'-C3'-C2'	-5.49	97.11	102.60
1	N	1162	C	N1-C2-N3	-5.49	115.36	119.20
1	N	1451	U	O4'-C1'-N1	5.49	112.59	108.20
1	N	497	G	C8-N9-C1'	5.48	134.13	127.00
1	N	1137	C	C3'-C2'-C1'	-5.48	97.11	101.50
1	N	1213	A	O4'-C1'-N9	5.48	112.59	108.20
1	N	1395	C	P-O3'-C3'	5.48	126.28	119.70
1	N	167	A	C3'-C2'-C1'	-5.48	97.11	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	341	C	C5-C4-N4	-5.48	116.36	120.20
1	N	1119	C	C6-N1-C2	-5.48	118.11	120.30
1	N	1273	C	P-O3'-C3'	5.48	126.28	119.70
1	N	1341	U	C6-N1-C2	-5.48	117.71	121.00
1	N	451	A	O5'-P-OP2	-5.48	100.77	105.70
1	N	690	G	C2-N3-C4	5.48	114.64	111.90
1	N	54	C	O4'-C1'-N1	5.48	112.58	108.20
1	N	79	G	O4'-C1'-N9	5.48	112.58	108.20
1	N	781	A	N7-C8-N9	5.48	116.54	113.80
1	N	937	A	C5'-C4'-C3'	5.48	124.76	116.00
1	N	1101	A	C8-N9-C4	-5.48	103.61	105.80
1	N	1277	C	P-O3'-C3'	-5.48	113.13	119.70
1	N	131	A	P-O3'-C3'	-5.47	113.13	119.70
1	N	287	U	C2-N3-C4	-5.47	123.72	127.00
1	N	849	G	C4-C5-C6	5.47	122.08	118.80
1	N	1102	A	C6-C5-N7	-5.47	128.47	132.30
1	N	1128	C	C4-C5-C6	5.47	120.14	117.40
1	N	1338	G	N1-C6-O6	5.47	123.19	119.90
1	N	1382	C	P-O5'-C5'	5.47	129.66	120.90
1	N	1429	A	C3'-C2'-C1'	-5.47	97.12	101.50
1	N	185	U	C2-N3-C4	-5.47	123.72	127.00
1	N	211	G	C6-N1-C2	5.47	128.38	125.10
1	N	273	U	P-O3'-C3'	-5.47	113.13	119.70
1	N	324	G	C5-C6-N1	-5.47	108.76	111.50
1	N	720	C	C5'-C4'-O4'	5.47	115.67	109.10
1	N	1336	C	C5-C4-N4	-5.47	116.37	120.20
1	N	1108	G	C5-N7-C8	5.47	107.04	104.30
1	N	78	A	P-O3'-C3'	5.47	126.26	119.70
1	N	140	U	C4'-C3'-C2'	-5.47	97.13	102.60
1	N	196	A	C5'-C4'-C3'	5.47	124.75	116.00
1	N	896	C	C3'-C2'-C1'	5.47	105.88	101.50
1	N	991	U	C2-N1-C1'	5.47	124.26	117.70
1	N	1356	G	C4-C5-N7	5.47	112.99	110.80
1	N	1380	U	C4-C5-C6	5.47	122.98	119.70
1	N	1426	G	C5-C6-N1	5.47	114.23	111.50
1	N	196	A	C6-N1-C2	-5.47	115.32	118.60
1	N	465	A	C4'-C3'-C2'	-5.47	97.13	102.60
1	N	1110	A	N1-C2-N3	5.47	132.03	129.30
1	N	1121	U	C3'-C2'-C1'	-5.47	97.13	101.50
1	N	184	G	N3-C2-N2	5.47	123.73	119.90
1	N	238	A	C5-C6-N6	-5.47	119.33	123.70
1	N	337	G	N3-C4-C5	5.47	131.33	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	467	U	O4'-C4'-C3'	-5.47	98.53	104.00
1	N	634	C	N3-C4-N4	5.47	121.83	118.00
1	N	846	G	C5'-C4'-C3'	-5.47	107.25	116.00
1	N	1171	A	C5'-C4'-C3'	5.47	124.75	116.00
1	N	1386	G	C8-N9-C1'	5.47	134.11	127.00
1	N	70	U	P-O5'-C5'	5.46	129.64	120.90
1	N	201	G	C4-C5-C6	5.46	122.08	118.80
1	N	760	G	C8-N9-C1'	-5.46	119.90	127.00
1	N	941	G	C6-N1-C2	-5.46	121.82	125.10
1	N	1384	C	C3'-C2'-C1'	-5.46	97.13	101.50
1	N	1432	G	C5'-C4'-O4'	-5.46	102.54	109.10
1	N	861	G	C5'-C4'-O4'	5.46	115.66	109.10
1	N	1453	G	N3-C2-N2	5.46	123.72	119.90
1	N	168	G	C3'-C2'-C1'	-5.46	97.13	101.50
1	N	195	A	C5'-C4'-C3'	-5.46	107.26	116.00
1	N	430	A	C4-C5-C6	5.46	119.73	117.00
1	N	652	U	C2-N1-C1'	-5.46	111.15	117.70
1	N	703	G	N3-C2-N2	5.46	123.72	119.90
1	N	746	A	C5-C6-N6	-5.46	119.33	123.70
1	N	1402	C	C6-N1-C2	-5.46	118.12	120.30
1	N	1468	A	C5-C6-N1	-5.46	114.97	117.70
1	N	553	A	C5-C6-N1	-5.46	114.97	117.70
1	N	688	G	N1-C2-N2	5.46	121.11	116.20
1	N	698	G	C6-C5-N7	-5.46	127.12	130.40
1	N	811	C	N3-C4-C5	-5.46	119.72	121.90
1	N	1309	G	N1-C2-N3	-5.46	120.62	123.90
1	N	16	A	C6-N1-C2	5.46	121.88	118.60
1	N	193	C	N3-C4-C5	-5.46	119.72	121.90
1	N	384	G	C5-N7-C8	-5.46	101.57	104.30
1	N	423	G	C3'-C2'-C1'	5.46	105.87	101.50
1	N	463	U	C2-N3-C4	-5.46	123.72	127.00
1	N	1071	C	C6-N1-C1'	-5.46	114.25	120.80
1	N	1145	A	C6-C5-N7	-5.46	128.48	132.30
1	N	1397	C	C5-C4-N4	-5.46	116.38	120.20
1	N	304	U	C4'-C3'-C2'	-5.46	97.14	102.60
1	N	339	C	N3-C4-C5	-5.46	119.72	121.90
1	N	491	G	C5'-C4'-C3'	-5.46	107.27	116.00
1	N	587	G	P-O3'-C3'	5.46	126.25	119.70
1	N	794	A	C1'-O4'-C4'	-5.46	105.53	109.90
1	N	958	A	C5-C6-N6	-5.46	119.33	123.70
1	N	1133	G	N7-C8-N9	5.46	115.83	113.10
1	N	1138	G	C6-C5-N7	-5.46	127.13	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	38	G	N1-C6-O6	5.46	123.17	119.90
1	N	383	A	C3'-C2'-C1'	-5.46	97.14	101.50
1	N	529	G	C5-N7-C8	5.46	107.03	104.30
1	N	761	G	C8-N9-C4	-5.46	104.22	106.40
1	N	1127	G	C6-N1-C2	-5.46	121.83	125.10
1	N	1533	C	C5-C6-N1	5.46	123.73	121.00
1	N	615	G	C6-C5-N7	-5.45	127.13	130.40
1	N	640	A	C6-C5-N7	-5.45	128.48	132.30
1	N	1501	C	C4-C5-C6	5.45	120.13	117.40
1	N	422	C	O3'-P-O5'	-5.45	93.64	104.00
1	N	479	U	C5'-C4'-O4'	5.45	115.64	109.10
1	N	1067	A	C6-N1-C2	-5.45	115.33	118.60
1	N	1253	G	C5-C6-O6	-5.45	125.33	128.60
1	N	1301	U	C2-N3-C4	5.45	130.27	127.00
1	N	721	G	N3-C4-C5	5.45	131.32	128.60
1	N	998	C	C4-C5-C6	5.45	120.12	117.40
1	N	1269	A	N9-C4-C5	5.45	107.98	105.80
1	N	1509	C	C5'-C4'-O4'	5.45	115.64	109.10
1	N	1524	C	N3-C2-O2	5.45	125.71	121.90
1	N	918	A	P-O5'-C5'	5.45	129.62	120.90
1	N	1338	G	C2-N3-C4	5.45	114.62	111.90
1	N	5	U	N3-C4-O4	5.45	123.21	119.40
1	N	154	U	P-O5'-C5'	5.45	129.61	120.90
1	N	441	A	N3-C4-N9	5.45	131.76	127.40
1	N	553	A	N7-C8-N9	-5.45	111.08	113.80
1	N	642	A	C4-C5-N7	-5.45	107.98	110.70
1	N	1322	C	P-O5'-C5'	5.45	129.61	120.90
1	N	352	C	C4-C5-C6	5.44	120.12	117.40
1	N	639	G	N3-C4-C5	-5.44	125.88	128.60
1	N	794	A	C5'-C4'-C3'	-5.44	107.29	116.00
1	N	69	G	N3-C4-C5	5.44	131.32	128.60
1	N	1212	U	C5-C6-N1	5.44	125.42	122.70
1	N	1322	C	N3-C2-O2	5.44	125.71	121.90
1	N	1370	G	C5'-C4'-O4'	5.44	115.63	109.10
1	N	673	A	C6-C5-N7	-5.44	128.49	132.30
1	N	780	A	N7-C8-N9	5.44	116.52	113.80
1	N	818	G	N1-C2-N2	-5.44	111.30	116.20
1	N	1198	G	C5'-C4'-C3'	5.44	124.70	116.00
1	N	1290	G	N1-C2-N3	-5.44	120.64	123.90
1	N	1445	U	O4'-C1'-N1	5.44	112.55	108.20
1	N	240	G	N1-C2-N3	-5.44	120.64	123.90
1	N	338	A	C6-C5-N7	-5.44	128.49	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	395	C	C5-C6-N1	5.44	123.72	121.00
1	N	411	A	N1-C2-N3	-5.44	126.58	129.30
1	N	496	A	O4'-C1'-C2'	5.44	112.50	107.60
1	N	723	U	C4'-C3'-C2'	-5.44	97.16	102.60
1	N	815	A	O4'-C1'-C2'	5.44	112.50	107.60
1	N	954	G	O4'-C1'-N9	5.44	112.55	108.20
1	N	997	U	C5-C4-O4	-5.44	122.64	125.90
1	N	156	C	C5-C4-N4	-5.44	116.39	120.20
1	N	208	U	N3-C4-C5	-5.44	111.34	114.60
1	N	337	G	N3-C2-N2	5.44	123.71	119.90
1	N	484	G	N7-C8-N9	5.44	115.82	113.10
1	N	1179	A	O4'-C1'-N9	5.44	112.55	108.20
1	N	1433	A	C1'-O4'-C4'	5.44	114.25	109.90
1	N	1219	A	C6-C5-N7	-5.44	128.50	132.30
1	N	428	G	C5'-C4'-O4'	-5.43	102.58	109.10
1	N	566	G	C4-C5-C6	5.43	122.06	118.80
1	N	1050	G	P-O5'-C5'	5.43	129.60	120.90
1	N	1261	A	N7-C8-N9	-5.43	111.08	113.80
1	N	1270	G	C5'-C4'-O4'	5.43	115.62	109.10
1	N	1309	G	C5-C6-O6	-5.43	125.34	128.60
1	N	1370	G	P-O3'-C3'	-5.43	113.18	119.70
1	N	414	A	P-O3'-C3'	5.43	126.22	119.70
1	N	1169	A	C5-C6-N6	-5.43	119.35	123.70
1	N	1268	G	N9-C4-C5	-5.43	103.23	105.40
1	N	142	G	C5-C6-N1	5.43	114.22	111.50
1	N	583	A	C5-C6-N6	-5.43	119.36	123.70
1	N	271	C	O4'-C4'-C3'	-5.43	98.57	104.00
1	N	1042	A	C4-C5-C6	5.43	119.72	117.00
1	N	1096	C	N1-C2-O2	5.43	122.16	118.90
1	N	1102	A	C6-N1-C2	-5.43	115.34	118.60
1	N	1428	A	C1'-O4'-C4'	-5.43	105.56	109.90
1	N	1181	G	N1-C6-O6	5.43	123.16	119.90
1	N	313	A	N3-C4-N9	5.43	131.74	127.40
1	N	376	G	N1-C2-N3	-5.43	120.64	123.90
1	N	606	G	N3-C2-N2	5.43	123.70	119.90
1	N	921	U	C2-N3-C4	-5.43	123.74	127.00
1	N	968	A	C4'-C3'-C2'	-5.43	97.17	102.60
1	N	101	A	C5'-C4'-O4'	5.42	115.61	109.10
1	N	322	C	O4'-C1'-N1	5.42	112.54	108.20
1	N	891	U	N1-C2-N3	5.42	118.16	114.90
1	N	1108	G	C5-C6-N1	-5.42	108.79	111.50
1	N	1252	A	C4-C5-C6	5.42	119.71	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1414	U	P-O3'-C3'	-5.42	113.19	119.70
1	N	724	G	N3-C4-N9	5.42	129.25	126.00
1	N	1111	A	C8-N9-C4	-5.42	103.63	105.80
1	N	322	C	C4-C5-C6	5.42	120.11	117.40
1	N	572	A	C5-N7-C8	5.42	106.61	103.90
1	N	649	A	O4'-C4'-C3'	-5.42	98.58	104.00
1	N	889	A	N9-C4-C5	5.42	107.97	105.80
1	N	983	A	N1-C6-N6	5.42	121.85	118.60
1	N	1057	G	P-O5'-C5'	5.42	129.58	120.90
1	N	1362	A	OP2-P-O3'	5.42	117.13	105.20
1	N	108	G	N3-C4-N9	5.42	129.25	126.00
1	N	604	G	C5-C6-O6	5.42	131.85	128.60
1	N	992	U	N3-C4-O4	5.42	123.19	119.40
1	N	417	G	O4'-C1'-N9	5.42	112.53	108.20
1	N	599	C	P-O3'-C3'	-5.42	113.20	119.70
1	N	614	C	N3-C4-C5	-5.42	119.73	121.90
1	N	999	C	N1-C2-O2	-5.42	115.65	118.90
1	N	1153	G	N1-C2-N2	5.42	121.08	116.20
1	N	1186	G	C3'-C2'-C1'	5.42	105.83	101.50
1	N	1369	C	N3-C2-O2	5.42	125.69	121.90
1	N	289	G	OP2-P-O3'	5.42	117.12	105.20
1	N	377	G	C8-N9-C4	-5.42	104.23	106.40
1	N	409	U	N3-C4-C5	-5.42	111.35	114.60
1	N	511	C	C2-N3-C4	5.42	122.61	119.90
1	N	597	G	N1-C2-N2	-5.42	111.33	116.20
1	N	931	C	N3-C4-N4	5.42	121.79	118.00
1	N	1017	U	C5-C4-O4	-5.42	122.65	125.90
1	N	1419	G	N1-C2-N3	-5.42	120.65	123.90
1	N	15	G	N3-C2-N2	5.42	123.69	119.90
1	N	62	U	N1-C2-O2	-5.42	119.01	122.80
1	N	150	U	N1-C2-N3	-5.41	111.65	114.90
1	N	239	U	N1-C2-O2	-5.41	119.01	122.80
1	N	482	A	C6-C5-N7	-5.41	128.51	132.30
1	N	490	C	C4-C5-C6	5.41	120.11	117.40
1	N	938	A	C5-C6-N1	-5.41	114.99	117.70
1	N	1259	C	N1-C2-O2	-5.41	115.65	118.90
1	N	1421	G	N3-C2-N2	5.41	123.69	119.90
1	N	45	G	C6-C5-N7	-5.41	127.15	130.40
1	N	198	G	P-O3'-C3'	-5.41	113.21	119.70
1	N	202	G	O4'-C1'-N9	5.41	112.53	108.20
1	N	640	A	C2-N3-C4	5.41	113.31	110.60
1	N	715	A	C5'-C4'-C3'	5.41	124.66	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1191	A	C8-N9-C1'	-5.41	117.96	127.70
1	N	1382	C	C4-C5-C6	5.41	120.11	117.40
1	N	1388	C	N3-C4-N4	5.41	121.79	118.00
1	N	1514	G	C6-C5-N7	-5.41	127.15	130.40
1	N	166	U	P-O3'-C3'	5.41	126.19	119.70
1	N	639	G	C8-N9-C4	-5.41	104.24	106.40
1	N	1232	U	C3'-C2'-C1'	-5.41	97.17	101.50
1	N	1369	C	P-O5'-C5'	5.41	129.56	120.90
1	N	9	G	C4-C5-C6	5.41	122.04	118.80
1	N	888	G	O5'-C5'-C4'	-5.41	101.43	111.70
1	N	150	U	C4'-C3'-C2'	-5.41	97.19	102.60
1	N	789	U	C3'-C2'-C1'	-5.41	97.17	101.50
1	N	856	C	O5'-C5'-C4'	-5.41	101.43	111.70
1	N	1173	U	N1-C2-N3	-5.41	111.66	114.90
1	N	1198	G	C3'-C2'-C1'	-5.41	97.17	101.50
1	N	628	G	C5-C6-O6	-5.40	125.36	128.60
1	N	700	G	C4-C5-C6	5.40	122.04	118.80
1	N	568	G	N3-C4-N9	-5.40	122.76	126.00
1	N	785	G	N3-C4-C5	5.40	131.30	128.60
1	N	852	G	C4'-C3'-C2'	-5.40	97.20	102.60
1	N	1039	G	O4'-C1'-N9	5.40	112.52	108.20
1	N	1192	C	O5'-C5'-C4'	-5.40	101.44	111.70
1	N	1306	A	P-O3'-C3'	-5.40	113.22	119.70
1	N	174	A	C1'-O4'-C4'	5.40	114.22	109.90
1	N	873	A	C8-N9-C1'	-5.40	117.98	127.70
1	N	1042	A	C5-N7-C8	5.40	106.60	103.90
1	N	1084	G	C4-C5-N7	-5.40	108.64	110.80
1	N	255	G	N9-C4-C5	-5.40	103.24	105.40
1	N	269	C	N3-C4-N4	5.40	121.78	118.00
1	N	389	A	C4-C5-N7	-5.40	108.00	110.70
1	N	914	A	N3-C4-N9	-5.40	123.08	127.40
1	N	932	C	C4'-C3'-C2'	-5.40	97.20	102.60
1	N	740	U	C5-C4-O4	-5.40	122.66	125.90
1	N	1470	U	C1'-O4'-C4'	5.40	114.22	109.90
1	N	202	G	C1'-O4'-C4'	5.39	114.22	109.90
1	N	359	G	O4'-C1'-N9	5.39	112.52	108.20
1	N	885	G	C8-N9-C4	5.39	108.56	106.40
1	N	1462	C	O4'-C1'-N1	5.39	112.52	108.20
1	N	198	G	C5-N7-C8	5.39	107.00	104.30
1	N	363	A	O4'-C1'-N9	5.39	112.51	108.20
1	N	542	G	C5-C6-O6	5.39	131.84	128.60
1	N	713	G	N3-C2-N2	5.39	123.67	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	721	G	P-O5'-C5'	-5.39	112.27	120.90
1	N	828	U	C4-C5-C6	5.39	122.94	119.70
1	N	921	U	N3-C2-O2	-5.39	118.42	122.20
1	N	1292	G	C6-N1-C2	5.39	128.34	125.10
1	N	200	G	P-O3'-C3'	5.39	126.17	119.70
1	N	580	C	O4'-C1'-N1	5.39	112.51	108.20
1	N	1171	A	C5'-C4'-O4'	5.39	115.57	109.10
1	N	1210	C	C2-N1-C1'	5.39	124.73	118.80
1	N	1242	G	C4-C5-C6	5.39	122.03	118.80
1	N	415	A	C4-C5-N7	-5.39	108.00	110.70
1	N	420	U	C5'-C4'-O4'	5.39	115.57	109.10
1	N	712	A	C4-C5-C6	-5.39	114.31	117.00
1	N	850	U	N3-C4-O4	5.39	123.17	119.40
1	N	1216	A	P-O5'-C5'	-5.39	112.28	120.90
1	N	1282	C	O4'-C1'-C2'	-5.39	100.41	105.80
1	N	1493	A	P-O3'-C3'	5.39	126.17	119.70
1	N	128	G	C3'-C2'-C1'	5.39	105.81	101.50
1	N	275	G	N3-C4-N9	-5.39	122.77	126.00
1	N	926	G	O4'-C4'-C3'	-5.39	98.61	104.00
1	N	1430	A	C4-C5-C6	5.39	119.69	117.00
1	N	226	G	C5'-C4'-C3'	-5.39	107.38	116.00
1	N	260	G	C8-N9-C1'	5.39	134.00	127.00
1	N	538	G	C6-C5-N7	-5.39	127.17	130.40
1	N	787	A	C5'-C4'-C3'	5.39	124.62	116.00
1	N	1002	G	C4-C5-C6	5.39	122.03	118.80
1	N	1012	A	C5-C6-N1	-5.39	115.01	117.70
1	N	1167	A	C2-N3-C4	5.39	113.29	110.60
1	N	1417	G	C4-N9-C1'	5.39	133.50	126.50
1	N	85	U	P-O3'-C3'	5.38	126.16	119.70
1	N	236	A	C5-N7-C8	-5.38	101.21	103.90
1	N	416	G	N3-C4-N9	5.38	129.23	126.00
1	N	525	C	C4-C5-C6	-5.38	114.71	117.40
1	N	662	U	C4-C5-C6	5.38	122.93	119.70
1	N	952	U	N3-C4-O4	5.38	123.17	119.40
1	N	1098	C	P-O3'-C3'	-5.38	113.24	119.70
1	N	1194	U	C6-N1-C1'	-5.38	113.66	121.20
1	N	39	G	C4-C5-N7	5.38	112.95	110.80
1	N	1176	A	C3'-C2'-C1'	-5.38	97.19	101.50
1	N	1331	G	C5'-C4'-O4'	5.38	115.56	109.10
1	N	1361	G	C6-N1-C2	5.38	128.33	125.10
1	N	52	C	P-O5'-C5'	5.38	129.51	120.90
1	N	989	U	C1'-O4'-C4'	-5.38	105.59	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	186	C	P-O5'-C5'	5.38	129.51	120.90
1	N	709	U	C5-C6-N1	5.38	125.39	122.70
1	N	995	C	C1'-O4'-C4'	5.38	114.20	109.90
1	N	275	G	C5-C6-O6	-5.38	125.37	128.60
1	N	886	G	C1'-O4'-C4'	-5.38	105.60	109.90
1	N	1427	C	C5-C4-N4	-5.38	116.44	120.20
1	N	996	A	N9-C4-C5	-5.38	103.65	105.80
1	N	1021	A	P-O3'-C3'	5.38	126.15	119.70
1	N	1264	U	C5-C4-O4	5.38	129.13	125.90
1	N	1465	A	O5'-P-OP1	5.38	117.15	110.70
1	N	511	C	N3-C4-C5	-5.38	119.75	121.90
1	N	621	A	P-O5'-C5'	5.38	129.50	120.90
1	N	1115	U	N3-C2-O2	-5.38	118.44	122.20
1	N	1126	U	N3-C4-O4	5.38	123.16	119.40
1	N	1226	C	C6-N1-C1'	-5.38	114.35	120.80
1	N	107	G	C5-C6-O6	-5.37	125.38	128.60
1	N	137	U	O4'-C1'-N1	5.37	112.50	108.20
1	N	183	C	C5'-C4'-O4'	5.37	115.55	109.10
1	N	330	C	C1'-O4'-C4'	-5.37	105.60	109.90
1	N	378	G	OP1-P-OP2	-5.37	111.54	119.60
1	N	382	A	O3'-P-O5'	5.37	114.21	104.00
1	N	396	C	N3-C4-C5	-5.37	119.75	121.90
1	N	411	A	C5'-C4'-C3'	-5.37	107.40	116.00
1	N	1491	G	N3-C4-N9	-5.37	122.78	126.00
1	N	1530	G	N1-C2-N3	-5.37	120.68	123.90
1	N	19	A	N7-C8-N9	-5.37	111.11	113.80
1	N	242	G	O4'-C1'-N9	5.37	112.50	108.20
1	N	466	A	C8-N9-C4	-5.37	103.65	105.80
1	N	517	G	C4-C5-N7	-5.37	108.65	110.80
1	N	549	C	N1-C2-N3	-5.37	115.44	119.20
1	N	648	A	C4-C5-N7	-5.37	108.01	110.70
1	N	689	C	N3-C4-C5	-5.37	119.75	121.90
1	N	705	G	N3-C4-C5	-5.37	125.91	128.60
1	N	300	A	N7-C8-N9	-5.37	111.11	113.80
1	N	880	C	C4-C5-C6	-5.37	114.72	117.40
1	N	1241	G	N7-C8-N9	-5.37	110.42	113.10
1	N	22	G	OP1-P-OP2	-5.37	111.55	119.60
1	N	266	G	N3-C2-N2	5.37	123.66	119.90
1	N	539	A	C5-C6-N6	-5.37	119.41	123.70
1	N	553	A	C5-C6-N6	-5.37	119.41	123.70
1	N	824	G	N7-C8-N9	-5.37	110.42	113.10
1	N	907	A	C6-C5-N7	-5.37	128.54	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	957	U	C6-N1-C2	-5.37	117.78	121.00
1	N	987	G	C5-C6-N1	-5.37	108.82	111.50
1	N	1028	C	C5'-C4'-O4'	5.37	115.54	109.10
1	N	1107	C	N1-C2-O2	-5.37	115.68	118.90
1	N	1170	A	C3'-C2'-C1'	-5.37	97.21	101.50
1	N	63	C	C6-N1-C2	-5.37	118.15	120.30
1	N	103	U	C2-N3-C4	5.37	130.22	127.00
1	N	234	C	P-O5'-C5'	5.37	129.49	120.90
1	N	716	A	N3-C4-C5	-5.37	123.04	126.80
1	N	732	C	C6-N1-C2	-5.37	118.15	120.30
1	N	904	U	C5'-C4'-C3'	5.37	124.59	116.00
1	N	1254	A	O4'-C1'-N9	5.37	112.49	108.20
1	N	1473	G	C4-C5-C6	5.37	122.02	118.80
1	N	670	G	C5-C6-N1	-5.37	108.82	111.50
1	N	903	G	C5-C6-N1	-5.37	108.82	111.50
1	N	974	A	N9-C1'-C2'	-5.37	106.10	112.00
1	N	1125	U	C5'-C4'-O4'	5.37	115.54	109.10
1	N	463	U	C4-C5-C6	-5.36	116.48	119.70
1	N	849	G	N3-C2-N2	-5.36	116.14	119.90
1	N	1178	G	C4-C5-C6	5.36	122.02	118.80
1	N	1331	G	N3-C2-N2	5.36	123.65	119.90
1	N	1526	G	C6-N1-C2	5.36	128.32	125.10
1	N	1038	C	N3-C4-N4	5.36	121.75	118.00
1	N	1057	G	C2-N3-C4	5.36	114.58	111.90
1	N	1189	U	C5-C4-O4	-5.36	122.68	125.90
1	N	1488	G	C4-C5-N7	5.36	112.94	110.80
1	N	153	C	O4'-C1'-N1	5.36	112.49	108.20
1	N	399	G	C4-C5-C6	5.36	122.02	118.80
1	N	834	U	C5-C6-N1	-5.36	120.02	122.70
1	N	1153	G	C4'-C3'-C2'	-5.36	97.24	102.60
1	N	1523	G	C5-C6-N1	-5.36	108.82	111.50
1	N	526	C	P-O3'-C3'	5.36	126.13	119.70
1	N	374	A	C1'-O4'-C4'	5.36	114.19	109.90
1	N	606	G	P-O3'-C3'	5.36	126.13	119.70
1	N	886	G	C2-N3-C4	5.36	114.58	111.90
1	N	908	A	C5'-C4'-C3'	-5.36	107.43	116.00
1	N	1178	G	C4'-C3'-C2'	-5.36	97.24	102.60
1	N	1181	G	C5-N7-C8	-5.36	101.62	104.30
1	N	1295	U	C5-C6-N1	5.36	125.38	122.70
1	N	1483	A	C2-N3-C4	-5.36	107.92	110.60
1	N	166	U	C2-N3-C4	-5.36	123.79	127.00
1	N	608	A	C4-C5-N7	-5.36	108.02	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	611	C	C6-N1-C2	-5.36	118.16	120.30
1	N	917	G	N7-C8-N9	5.36	115.78	113.10
1	N	1069	C	C3'-C2'-C1'	-5.36	97.22	101.50
1	N	42	G	C8-N9-C4	-5.35	104.26	106.40
1	N	129	A	C5-N7-C8	5.35	106.58	103.90
1	N	694	A	C4-C5-N7	-5.35	108.02	110.70
1	N	1480	A	N9-C4-C5	-5.35	103.66	105.80
1	N	759	A	P-O3'-C3'	-5.35	113.28	119.70
1	N	813	U	O5'-P-OP1	5.35	117.12	110.70
1	N	1028	C	O3'-P-O5'	-5.35	93.83	104.00
1	N	1061	G	C3'-C2'-C1'	-5.35	97.22	101.50
1	N	1071	C	C6-N1-C2	-5.35	118.16	120.30
1	N	718	A	N3-C4-C5	-5.35	123.05	126.80
1	N	820	U	C6-N1-C1'	-5.35	113.71	121.20
1	N	76	G	C8-N9-C1'	-5.35	120.05	127.00
1	N	77	A	C6-C5-N7	-5.35	128.56	132.30
1	N	91	U	C5-C4-O4	5.35	129.11	125.90
1	N	602	A	P-O5'-C5'	5.35	129.46	120.90
1	N	1190	G	N1-C2-N3	-5.35	120.69	123.90
1	N	1314	C	P-O3'-C3'	-5.35	113.28	119.70
1	N	1466	C	C2-N3-C4	5.35	122.58	119.90
1	N	60	A	C6-N1-C2	5.35	121.81	118.60
1	N	265	G	C5-N7-C8	5.35	106.97	104.30
1	N	359	G	N3-C2-N2	5.35	123.64	119.90
1	N	477	C	O4'-C1'-N1	5.35	112.48	108.20
1	N	593	U	N3-C4-C5	-5.35	111.39	114.60
1	N	828	U	O4'-C1'-C2'	-5.35	100.45	105.80
1	N	1002	G	C4'-C3'-C2'	-5.35	97.25	102.60
1	N	1104	G	C8-N9-C4	-5.35	104.26	106.40
1	N	1194	U	C2-N1-C1'	5.35	124.12	117.70
1	N	196	A	O4'-C1'-N9	5.35	112.48	108.20
1	N	1088	G	C6-N1-C2	5.35	128.31	125.10
1	N	77	A	C5-C6-N6	-5.34	119.42	123.70
1	N	280	C	C3'-C2'-C1'	5.34	105.78	101.50
1	N	609	A	C6-C5-N7	-5.34	128.56	132.30
1	N	855	U	C2-N3-C4	5.34	130.21	127.00
1	N	1097	C	C2-N3-C4	5.34	122.57	119.90
1	N	1119	C	C5-C4-N4	-5.34	116.46	120.20
1	N	1215	G	C4-C5-N7	5.34	112.94	110.80
1	N	661	G	O4'-C1'-N9	5.34	112.47	108.20
1	N	831	A	C2-N3-C4	-5.34	107.93	110.60
1	N	120	A	C5-C6-N1	-5.34	115.03	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	362	G	C8-N9-C1'	5.34	133.94	127.00
1	N	500	G	N1-C2-N3	-5.34	120.69	123.90
1	N	746	A	C4-C5-N7	-5.34	108.03	110.70
1	N	928	G	N3-C4-C5	-5.34	125.93	128.60
1	N	1075	U	C5-C4-O4	-5.34	122.69	125.90
1	N	1124	G	OP1-P-OP2	-5.34	111.59	119.60
1	N	1148	U	C5-C4-O4	5.34	129.10	125.90
1	N	251	G	C8-N9-C1'	-5.34	120.06	127.00
1	N	701	U	N1-C2-O2	-5.34	119.06	122.80
1	N	280	C	C5-C6-N1	5.34	123.67	121.00
1	N	290	C	C4'-C3'-C2'	-5.34	97.26	102.60
1	N	450	G	C8-N9-C4	5.34	108.53	106.40
1	N	1007	U	N1-C2-N3	-5.34	111.70	114.90
1	N	251	G	C4-C5-N7	5.34	112.94	110.80
1	N	408	A	C5-C6-N6	-5.34	119.43	123.70
1	N	540	G	P-O5'-C5'	5.34	129.44	120.90
1	N	653	U	C3'-C2'-C1'	5.34	105.77	101.50
1	N	696	A	N3-C4-C5	-5.34	123.06	126.80
1	N	1238	A	N1-C2-N3	5.34	131.97	129.30
1	N	854	U	N1-C2-N3	-5.33	111.70	114.90
1	N	316	C	C5'-C4'-O4'	5.33	115.50	109.10
1	N	349	A	N1-C2-N3	5.33	131.97	129.30
1	N	554	A	N7-C8-N9	5.33	116.47	113.80
1	N	708	C	C6-N1-C2	5.33	122.43	120.30
1	N	319	G	C5-C6-N1	-5.33	108.83	111.50
1	N	588	G	O4'-C1'-N9	5.33	112.47	108.20
1	N	763	G	C4-C5-N7	-5.33	108.67	110.80
1	N	1046	A	N1-C2-N3	-5.33	126.63	129.30
1	N	1091	U	C5'-C4'-C3'	-5.33	107.47	116.00
1	N	1285	A	C5'-C4'-C3'	-5.33	107.47	116.00
1	N	1516	G	C6-N1-C2	5.33	128.30	125.10
1	N	663	A	P-O5'-C5'	5.33	129.43	120.90
1	N	1410	A	N9-C4-C5	5.33	107.93	105.80
1	N	69	G	P-O3'-C3'	-5.33	113.31	119.70
1	N	1024	G	N1-C2-N2	-5.33	111.40	116.20
1	N	1161	C	C5'-C4'-O4'	5.33	115.49	109.10
1	N	5	U	N3-C2-O2	5.33	125.93	122.20
1	N	117	G	C3'-C2'-C1'	-5.33	97.24	101.50
1	N	213	G	C4-N9-C1'	5.33	133.42	126.50
1	N	334	C	N3-C2-O2	5.33	125.63	121.90
1	N	366	A	C2'-C3'-O3'	5.33	122.22	113.70
1	N	1106	G	N7-C8-N9	5.33	115.76	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1290	G	C5-C6-N1	-5.33	108.84	111.50
1	N	1351	U	O4'-C4'-C3'	-5.33	98.67	104.00
1	N	15	G	C5-C6-N1	-5.32	108.84	111.50
1	N	60	A	C2'-C3'-O3'	5.32	122.22	113.70
1	N	214	C	O4'-C4'-C3'	-5.32	98.68	104.00
1	N	400	C	N3-C4-C5	-5.32	119.77	121.90
1	N	402	G	C8-N9-C1'	5.32	133.92	127.00
1	N	936	C	C2-N3-C4	5.32	122.56	119.90
1	N	141	G	N3-C4-N9	-5.32	122.81	126.00
1	N	1055	A	OP1-P-OP2	-5.32	111.62	119.60
1	N	1122	U	N3-C4-O4	5.32	123.13	119.40
1	N	46	G	N1-C2-N3	-5.32	120.71	123.90
1	N	56	U	C4-C5-C6	-5.32	116.51	119.70
1	N	471	U	C5-C4-O4	-5.32	122.71	125.90
1	N	554	A	C5-N7-C8	-5.32	101.24	103.90
1	N	1101	A	C5-C6-N1	-5.32	115.04	117.70
1	N	1487	G	C4-N9-C1'	-5.32	119.58	126.50
1	N	333	U	N1-C2-N3	-5.32	111.71	114.90
1	N	84	U	OP1-P-O3'	5.32	116.90	105.20
1	N	218	U	N1-C2-N3	-5.32	111.71	114.90
1	N	645	G	OP2-P-O3'	5.32	116.90	105.20
1	N	694	A	C5-C6-N6	-5.32	119.45	123.70
1	N	768	A	OP1-P-OP2	-5.32	111.62	119.60
1	N	10	A	P-O3'-C3'	-5.32	113.32	119.70
1	N	597	G	C5'-C4'-C3'	-5.32	107.49	116.00
1	N	866	C	C6-N1-C2	5.32	122.43	120.30
1	N	968	A	C5-C6-N1	-5.32	115.04	117.70
1	N	1444	U	C2-N3-C4	-5.32	123.81	127.00
1	N	1516	G	C5-C6-N1	-5.32	108.84	111.50
1	N	791	G	N3-C4-C5	-5.31	125.94	128.60
1	N	213	G	C6-C5-N7	-5.31	127.21	130.40
1	N	244	U	C5-C6-N1	5.31	125.36	122.70
1	N	585	G	C6-N1-C2	5.31	128.29	125.10
1	N	1023	U	C5-C6-N1	5.31	125.36	122.70
1	N	1089	G	N7-C8-N9	5.31	115.76	113.10
1	N	1380	U	N3-C4-C5	-5.31	111.41	114.60
1	N	208	U	O4'-C1'-N1	5.31	112.45	108.20
1	N	368	U	O4'-C1'-N1	5.31	112.45	108.20
1	N	442	G	C2-N3-C4	5.31	114.56	111.90
1	N	545	C	N1-C2-O2	5.31	122.08	118.90
1	N	954	G	C6-C5-N7	-5.31	127.22	130.40
1	N	1328	C	O4'-C1'-N1	5.31	112.45	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1487	G	N1-C2-N3	-5.31	120.71	123.90
1	N	12	U	C4'-C3'-C2'	-5.31	97.29	102.60
1	N	524	G	C2-N3-C4	5.31	114.55	111.90
1	N	837	U	N3-C2-O2	5.31	125.92	122.20
1	N	1117	A	N9-C4-C5	5.31	107.92	105.80
1	N	1232	U	C2-N3-C4	-5.31	123.81	127.00
1	N	402	G	N7-C8-N9	-5.31	110.45	113.10
1	N	863	U	N3-C4-O4	5.31	123.11	119.40
1	N	7	A	C6-C5-N7	-5.30	128.59	132.30
1	N	310	G	N7-C8-N9	-5.30	110.45	113.10
1	N	580	C	O5'-C5'-C4'	-5.30	101.62	111.70
1	N	1004	A	N9-C4-C5	-5.30	103.68	105.80
1	N	1229	A	N9-C1'-C2'	-5.30	106.16	112.00
1	N	1496	C	C5-C6-N1	-5.30	118.35	121.00
1	N	228	A	N1-C2-N3	5.30	131.95	129.30
1	N	783	C	N3-C4-C5	-5.30	119.78	121.90
1	N	1110	A	N7-C8-N9	-5.30	111.15	113.80
1	N	1120	C	C2-N1-C1'	5.30	124.63	118.80
1	N	634	C	C2-N3-C4	5.30	122.55	119.90
1	N	778	G	C6-N1-C2	5.30	128.28	125.10
1	N	1043	G	N7-C8-N9	5.30	115.75	113.10
1	N	1200	C	C3'-C2'-C1'	5.30	105.74	101.50
1	N	717	U	C6-N1-C1'	-5.30	113.78	121.20
1	N	835	U	C3'-C2'-C1'	5.30	105.74	101.50
1	N	1515	G	N1-C2-N2	5.30	120.97	116.20
1	N	161	A	C5-N7-C8	-5.30	101.25	103.90
1	N	1410	A	C4-N9-C1'	-5.30	116.76	126.30
1	N	36	C	C5-C4-N4	-5.30	116.49	120.20
1	N	619	U	P-O3'-C3'	-5.30	113.34	119.70
1	N	634	C	C5'-C4'-C3'	5.30	124.47	116.00
1	N	1329	A	N3-C4-C5	-5.30	123.09	126.80
1	N	759	A	N9-C4-C5	5.29	107.92	105.80
1	N	1233	G	N9-C4-C5	-5.29	103.28	105.40
1	N	30	U	OP1-P-O3'	5.29	116.84	105.20
1	N	80	A	C4-C5-N7	-5.29	108.05	110.70
1	N	465	A	C1'-O4'-C4'	-5.29	105.67	109.90
1	N	801	U	C5-C4-O4	-5.29	122.72	125.90
1	N	952	U	P-O3'-C3'	-5.29	113.35	119.70
1	N	1485	U	N3-C4-C5	-5.29	111.42	114.60
1	N	19	A	P-O3'-C3'	-5.29	113.35	119.70
1	N	264	C	C2-N3-C4	5.29	122.55	119.90
1	N	636	U	N1-C2-O2	-5.29	119.10	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1082	A	N3-C4-C5	-5.29	123.10	126.80
1	N	1115	U	OP1-P-OP2	-5.29	111.66	119.60
1	N	409	U	P-O3'-C3'	5.29	126.05	119.70
1	N	770	C	C1'-O4'-C4'	5.29	114.13	109.90
1	N	849	G	C6-N1-C2	5.29	128.27	125.10
1	N	1308	U	C5-C6-N1	5.29	125.34	122.70
1	N	180	U	C4'-C3'-C2'	-5.29	97.31	102.60
1	N	565	U	O4'-C4'-C3'	-5.29	98.71	104.00
1	N	721	G	C1'-O4'-C4'	-5.29	105.67	109.90
1	N	1216	A	N3-C4-C5	-5.29	123.10	126.80
1	N	1294	G	N1-C6-O6	5.29	123.07	119.90
1	N	1388	C	C4'-C3'-C2'	-5.29	97.31	102.60
1	N	1472	U	C5'-C4'-C3'	5.29	124.46	116.00
1	N	540	G	C6-N1-C2	5.29	128.27	125.10
1	N	714	G	C5-C6-N1	5.29	114.14	111.50
1	N	733	G	C6-N1-C2	5.29	128.27	125.10
1	N	82	G	C8-N9-C1'	-5.29	120.13	127.00
1	N	271	C	C1'-O4'-C4'	5.29	114.13	109.90
1	N	422	C	C2-N3-C4	5.29	122.54	119.90
1	N	493	A	C6-N1-C2	5.29	121.77	118.60
1	N	808	C	C4'-C3'-C2'	-5.29	97.31	102.60
1	N	104	G	P-O5'-C5'	5.28	129.35	120.90
1	N	149	A	C2-N3-C4	5.28	113.24	110.60
1	N	663	A	C5-C6-N1	-5.28	115.06	117.70
1	N	689	C	O4'-C1'-N1	5.28	112.43	108.20
1	N	701	U	N3-C2-O2	5.28	125.90	122.20
1	N	814	A	N1-C2-N3	5.28	131.94	129.30
1	N	1185	G	N1-C2-N3	-5.28	120.73	123.90
1	N	1359	C	N3-C4-N4	5.28	121.70	118.00
1	N	408	A	P-O5'-C5'	-5.28	112.45	120.90
1	N	614	C	N3-C4-N4	5.28	121.70	118.00
1	N	324	G	N3-C2-N2	5.28	123.60	119.90
1	N	1301	U	C1'-O4'-C4'	5.28	114.12	109.90
1	N	1372	U	C6-N1-C2	5.28	124.17	121.00
1	N	1412	C	N1-C2-O2	5.28	122.07	118.90
1	N	1446	A	O4'-C1'-N9	5.28	112.42	108.20
1	N	1453	G	N1-C2-N3	-5.28	120.73	123.90
1	N	794	A	O4'-C1'-N9	5.28	112.42	108.20
1	N	871	U	C6-N1-C1'	-5.28	113.81	121.20
1	N	259	G	N1-C6-O6	5.28	123.07	119.90
1	N	812	G	O4'-C1'-N9	5.28	112.42	108.20
1	N	1166	G	N7-C8-N9	-5.28	110.46	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1464	U	O4'-C1'-N1	5.28	112.42	108.20
1	N	403	C	N1-C2-O2	5.28	122.07	118.90
1	N	581	G	N3-C2-N2	5.28	123.59	119.90
1	N	595	A	C5-C6-N6	-5.28	119.48	123.70
1	N	894	G	C8-N9-C4	-5.28	104.29	106.40
1	N	626	G	C4-C5-C6	5.27	121.96	118.80
1	N	1163	A	C5'-C4'-O4'	5.27	115.43	109.10
1	N	1266	G	C6-N1-C2	5.27	128.26	125.10
1	N	627	G	N7-C8-N9	5.27	115.74	113.10
1	N	688	G	C6-C5-N7	5.27	133.56	130.40
1	N	751	U	C5-C6-N1	5.27	125.34	122.70
1	N	821	G	C8-N9-C4	5.27	108.51	106.40
1	N	1366	C	N1-C2-O2	-5.27	115.74	118.90
1	N	1427	C	OP1-P-OP2	-5.27	111.69	119.60
1	N	1053	G	P-O3'-C3'	5.27	126.03	119.70
1	N	1119	C	C4'-C3'-C2'	-5.27	97.33	102.60
1	N	1491	G	C4-N9-C1'	-5.27	119.65	126.50
1	N	332	G	C5-C6-O6	-5.27	125.44	128.60
1	N	461	A	C5'-C4'-C3'	5.27	124.43	116.00
1	N	646	G	C5'-C4'-O4'	-5.27	102.78	109.10
1	N	784	A	C5-N7-C8	5.27	106.53	103.90
1	N	878	A	C2-N3-C4	-5.27	107.97	110.60
1	N	987	G	N3-C4-N9	-5.27	122.84	126.00
1	N	1012	A	N7-C8-N9	-5.27	111.17	113.80
1	N	1284	C	C5-C6-N1	5.27	123.64	121.00
1	N	458	U	C5-C4-O4	-5.27	122.74	125.90
1	N	497	G	N1-C2-N2	-5.27	111.46	116.20
1	N	852	G	C4-C5-N7	5.27	112.91	110.80
1	N	1169	A	C4'-C3'-C2'	-5.27	97.33	102.60
1	N	647	C	C6-N1-C1'	-5.27	114.48	120.80
1	N	845	A	C5-N7-C8	5.27	106.53	103.90
1	N	541	G	C8-N9-C4	5.26	108.51	106.40
1	N	611	C	N1-C1'-C2'	-5.26	106.21	112.00
1	N	811	C	P-O3'-C3'	5.26	126.02	119.70
1	N	1075	U	C6-N1-C1'	-5.26	113.83	121.20
1	N	1114	C	C6-N1-C1'	-5.26	114.48	120.80
1	N	1136	C	C2-N1-C1'	5.26	124.59	118.80
1	N	1515	G	N1-C2-N3	-5.26	120.74	123.90
1	N	849	G	C3'-C2'-C1'	-5.26	97.29	101.50
1	N	1175	G	P-O3'-C3'	-5.26	113.38	119.70
1	N	400	C	O4'-C4'-C3'	-5.26	98.74	104.00
1	N	957	U	C1'-O4'-C4'	5.26	114.11	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1068	G	N1-C6-O6	5.26	123.06	119.90
1	N	1202	U	N1-C2-N3	-5.26	111.74	114.90
1	N	1237	C	N1-C2-N3	-5.26	115.52	119.20
1	N	81	A	P-O5'-C5'	5.26	129.32	120.90
1	N	148	G	C6-C5-N7	-5.26	127.25	130.40
1	N	234	C	P-O3'-C3'	-5.26	113.39	119.70
1	N	453	G	N1-C2-N2	5.26	120.93	116.20
1	N	595	A	C6-N1-C2	-5.26	115.44	118.60
1	N	678	U	C4-C5-C6	-5.26	116.54	119.70
1	N	681	A	C4'-C3'-C2'	-5.26	97.34	102.60
1	N	1223	C	N1-C2-N3	5.26	122.88	119.20
1	N	951	G	C8-N9-C4	5.26	108.50	106.40
1	N	447	G	N1-C6-O6	5.26	123.05	119.90
1	N	1080	A	C4-C5-C6	5.26	119.63	117.00
1	N	454	G	P-O3'-C3'	-5.25	113.39	119.70
1	N	1026	G	C6-N1-C2	5.25	128.25	125.10
1	N	417	G	N3-C2-N2	5.25	123.58	119.90
1	N	914	A	O4'-C1'-N9	5.25	112.40	108.20
1	N	922	G	C5-C6-N1	-5.25	108.87	111.50
1	N	935	A	N1-C2-N3	5.25	131.93	129.30
1	N	986	U	N3-C4-C5	-5.25	111.45	114.60
1	N	1455	G	N9-C4-C5	5.25	107.50	105.40
1	N	121	U	P-O3'-C3'	-5.25	113.40	119.70
1	N	204	G	C5-N7-C8	5.25	106.93	104.30
1	N	424	G	C5'-C4'-O4'	5.25	115.40	109.10
1	N	472	U	OP1-P-OP2	-5.25	111.72	119.60
1	N	653	U	C2-N1-C1'	5.25	124.00	117.70
1	N	849	G	O4'-C1'-N9	5.25	112.40	108.20
1	N	869	G	C2-N3-C4	5.25	114.53	111.90
1	N	1488	G	P-O5'-C5'	-5.25	112.50	120.90
1	N	703	G	N3-C4-C5	-5.25	125.97	128.60
1	N	860	A	N9-C4-C5	5.25	107.90	105.80
1	N	268	U	P-O3'-C3'	5.25	126.00	119.70
1	N	493	A	P-O5'-C5'	-5.25	112.50	120.90
1	N	716	A	N9-C4-C5	5.25	107.90	105.80
1	N	773	G	C6-N1-C2	5.25	128.25	125.10
1	N	879	C	C5-C4-N4	-5.25	116.53	120.20
1	N	1180	A	C8-N9-C4	-5.25	103.70	105.80
1	N	1298	U	C4'-C3'-C2'	5.25	107.85	102.60
1	N	214	C	O5'-C5'-C4'	-5.25	101.73	111.70
1	N	293	G	C5-N7-C8	-5.25	101.68	104.30
1	N	328	C	P-O5'-C5'	5.25	129.30	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	485	U	C2-N1-C1'	5.25	124.00	117.70
1	N	631	C	C5-C6-N1	5.25	123.62	121.00
1	N	633	G	C3'-C2'-C1'	-5.25	97.30	101.50
1	N	709	U	C4-C5-C6	-5.25	116.55	119.70
1	N	974	A	C5-C6-N6	-5.25	119.50	123.70
1	N	258	G	N3-C2-N2	5.25	123.57	119.90
1	N	275	G	N3-C2-N2	5.25	123.57	119.90
1	N	483	C	N3-C4-N4	5.25	121.67	118.00
1	N	812	G	O3'-P-O5'	-5.25	94.03	104.00
1	N	826	C	N3-C2-O2	5.25	125.57	121.90
1	N	1028	C	C4-C5-C6	5.25	120.02	117.40
1	N	521	G	C5-C6-N1	-5.24	108.88	111.50
1	N	932	C	O4'-C1'-N1	5.24	112.39	108.20
1	N	1193	G	C5-C6-O6	-5.24	125.45	128.60
1	N	1298	U	O4'-C1'-C2'	5.24	112.32	107.60
1	N	1530	G	C4-C5-C6	5.24	121.95	118.80
1	N	107	G	C8-N9-C1'	5.24	133.81	127.00
1	N	230	G	N1-C2-N3	-5.24	120.76	123.90
1	N	330	C	O4'-C4'-C3'	5.24	110.29	106.10
1	N	1178	G	C4-N9-C1'	5.24	133.31	126.50
1	N	1274	A	N3-C4-N9	5.24	131.59	127.40
1	N	288	A	C4-C5-N7	-5.24	108.08	110.70
1	N	439	U	C1'-O4'-C4'	5.24	114.09	109.90
1	N	669	G	P-O5'-C5'	5.24	129.28	120.90
1	N	186	C	N3-C2-O2	5.24	125.57	121.90
1	N	1186	G	N3-C2-N2	5.24	123.57	119.90
1	N	1255	G	C6-C5-N7	-5.24	127.26	130.40
1	N	1299	A	O5'-P-OP2	5.24	116.98	110.70
1	N	78	A	N3-C4-N9	5.24	131.59	127.40
1	N	436	C	C3'-C2'-C1'	5.24	105.69	101.50
1	N	530	G	C5-C6-N1	-5.24	108.88	111.50
1	N	737	C	N3-C4-N4	5.24	121.66	118.00
1	N	770	C	OP1-P-OP2	-5.24	111.75	119.60
1	N	981	U	O5'-P-OP2	-5.24	100.99	105.70
1	N	486	U	N3-C4-C5	-5.23	111.46	114.60
1	N	1233	G	C6-C5-N7	-5.23	127.26	130.40
1	N	175	C	P-O5'-C5'	5.23	129.27	120.90
1	N	504	C	C1'-O4'-C4'	-5.23	105.72	109.90
1	N	531	U	N1-C2-O2	-5.23	119.14	122.80
1	N	869	G	N9-C4-C5	5.23	107.49	105.40
1	N	922	G	C5'-C4'-C3'	5.23	124.37	116.00
1	N	958	A	C8-N9-C4	5.23	107.89	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1015	G	C5-C6-N1	-5.23	108.88	111.50
1	N	1186	G	C6-N1-C2	5.23	128.24	125.10
1	N	1269	A	O3'-P-O5'	-5.23	94.06	104.00
1	N	1408	A	C6-C5-N7	-5.23	128.64	132.30
1	N	138	G	N1-C2-N3	-5.23	120.76	123.90
1	N	188	C	C5-C4-N4	-5.23	116.54	120.20
1	N	218	U	OP1-P-OP2	-5.23	111.75	119.60
1	N	414	A	C6-C5-N7	-5.23	128.64	132.30
1	N	445	G	C5-N7-C8	5.23	106.92	104.30
1	N	616	G	C2-N3-C4	-5.23	109.28	111.90
1	N	746	A	C6-C5-N7	-5.23	128.64	132.30
1	N	803	G	C4-N9-C1'	5.23	133.30	126.50
1	N	953	G	C4-C5-C6	5.23	121.94	118.80
1	N	984	C	N1-C2-N3	-5.23	115.54	119.20
1	N	385	C	N3-C4-C5	-5.23	119.81	121.90
1	N	574	A	N1-C2-N3	5.23	131.91	129.30
1	N	959	A	C4-C5-C6	5.23	119.61	117.00
1	N	1314	C	N3-C4-N4	5.23	121.66	118.00
1	N	33	A	N7-C8-N9	5.23	116.41	113.80
1	N	102	G	N9-C1'-C2'	5.23	120.80	114.00
1	N	161	A	N1-C2-N3	-5.23	126.69	129.30
1	N	460	A	C4-C5-C6	5.23	119.61	117.00
1	N	1306	A	C8-N9-C4	-5.23	103.71	105.80
1	N	975	A	C6-C5-N7	-5.23	128.64	132.30
1	N	205	A	O4'-C1'-N9	5.22	112.38	108.20
1	N	597	G	N3-C4-C5	5.22	131.21	128.60
1	N	1075	U	P-O3'-C3'	-5.22	113.43	119.70
1	N	1308	U	C5-C4-O4	-5.22	122.77	125.90
1	N	95	C	P-O5'-C5'	-5.22	112.55	120.90
1	N	100	G	C5-C6-O6	5.22	131.73	128.60
1	N	135	C	OP1-P-OP2	-5.22	111.77	119.60
1	N	159	G	N1-C6-O6	5.22	123.03	119.90
1	N	504	C	N3-C4-C5	-5.22	119.81	121.90
1	N	585	G	O4'-C1'-N9	5.22	112.38	108.20
1	N	599	C	C4-C5-C6	-5.22	114.79	117.40
1	N	1253	G	P-O3'-C3'	-5.22	113.43	119.70
1	N	1383	C	C2-N3-C4	5.22	122.51	119.90
1	N	1417	G	C5'-C4'-O4'	5.22	115.37	109.10
1	N	1534	A	C5-C6-N6	-5.22	119.52	123.70
1	N	129	A	C1'-O4'-C4'	5.22	114.08	109.90
1	N	563	A	C6-C5-N7	-5.22	128.65	132.30
1	N	1107	C	O4'-C4'-C3'	-5.22	98.78	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1524	C	C2-N3-C4	-5.22	117.29	119.90
1	N	1191	A	P-O5'-C5'	5.22	129.25	120.90
1	N	1124	G	C1'-O4'-C4'	5.22	114.07	109.90
1	N	1495	U	C6-N1-C2	-5.22	117.87	121.00
1	N	110	C	C5-C6-N1	5.21	123.61	121.00
1	N	150	U	N1-C2-O2	5.21	126.45	122.80
1	N	556	C	C1'-O4'-C4'	5.21	114.07	109.90
1	N	1102	A	C1'-O4'-C4'	5.21	114.07	109.90
1	N	1143	G	N3-C2-N2	5.21	123.55	119.90
1	N	1355	G	N9-C4-C5	-5.21	103.31	105.40
1	N	26	A	C3'-C2'-C1'	-5.21	97.33	101.50
1	N	325	A	N1-C2-N3	5.21	131.91	129.30
1	N	500	G	C6-N1-C2	5.21	128.23	125.10
1	N	827	U	N3-C2-O2	5.21	125.85	122.20
1	N	847	G	C6-C5-N7	-5.21	127.27	130.40
1	N	935	A	N9-C1'-C2'	-5.21	106.27	112.00
1	N	1051	C	C3'-C2'-C1'	-5.21	97.33	101.50
1	N	1139	G	C6-N1-C2	5.21	128.23	125.10
1	N	1170	A	C5-C6-N1	-5.21	115.09	117.70
1	N	1374	A	C4-C5-N7	-5.21	108.09	110.70
1	N	1533	C	OP1-P-OP2	-5.21	111.78	119.60
1	N	492	C	N1-C2-N3	-5.21	115.55	119.20
1	N	694	A	C5-N7-C8	5.21	106.50	103.90
1	N	194	C	C4-C5-C6	5.21	120.00	117.40
1	N	213	G	C4-C5-C6	5.21	121.92	118.80
1	N	244	U	C2-N1-C1'	5.21	123.95	117.70
1	N	414	A	C4'-C3'-C2'	-5.21	97.39	102.60
1	N	458	U	N1-C2-N3	5.21	118.03	114.90
1	N	482	A	N1-C2-N3	5.21	131.90	129.30
1	N	504	C	N3-C4-N4	5.21	121.65	118.00
1	N	968	A	C5-N7-C8	5.21	106.50	103.90
1	N	361	G	N7-C8-N9	5.21	115.70	113.10
1	N	708	C	C1'-O4'-C4'	-5.21	105.73	109.90
1	N	773	G	C4-N9-C1'	-5.21	119.73	126.50
1	N	1249	C	P-O5'-C5'	-5.21	112.57	120.90
1	N	1292	G	C3'-C2'-C1'	-5.21	97.33	101.50
1	N	1332	A	C4-C5-N7	-5.21	108.10	110.70
1	N	62	U	P-O5'-C5'	5.21	129.23	120.90
1	N	737	C	C2-N1-C1'	5.21	124.53	118.80
1	N	909	A	C2-N3-C4	-5.21	108.00	110.60
1	N	1177	G	C6-C5-N7	-5.21	127.28	130.40
1	N	33	A	O4'-C1'-N9	5.20	112.36	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	458	U	N1-C2-O2	-5.20	119.16	122.80
1	N	879	C	O4'-C1'-N1	5.20	112.36	108.20
1	N	1076	U	C2-N3-C4	5.20	130.12	127.00
1	N	1275	A	C5'-C4'-C3'	-5.20	107.67	116.00
1	N	1305	G	P-O3'-C3'	5.20	125.94	119.70
1	N	1312	G	P-O5'-C5'	-5.20	112.58	120.90
1	N	1511	G	C4-C5-N7	-5.20	108.72	110.80
1	N	79	G	P-O3'-C3'	5.20	125.94	119.70
1	N	1249	C	C2'-C3'-O3'	5.20	122.02	113.70
1	N	298	A	C4-C5-C6	5.20	119.60	117.00
1	N	326	G	C8-N9-C4	-5.20	104.32	106.40
1	N	728	A	N3-C4-N9	5.20	131.56	127.40
1	N	856	C	O4'-C4'-C3'	-5.20	98.80	104.00
1	N	61	G	C3'-C2'-C1'	-5.20	97.34	101.50
1	N	141	G	C5'-C4'-C3'	-5.20	107.68	116.00
1	N	322	C	N1-C2-O2	5.20	122.02	118.90
1	N	722	G	O4'-C1'-N9	5.20	112.36	108.20
1	N	809	G	C1'-O4'-C4'	5.20	114.06	109.90
1	N	1222	G	C5-N7-C8	5.20	106.90	104.30
1	N	1518	A	O4'-C1'-N9	5.20	112.36	108.20
1	N	1526	G	N1-C2-N3	-5.20	120.78	123.90
1	N	766	A	C5-N7-C8	5.20	106.50	103.90
1	N	57	G	C5-C6-N1	-5.20	108.90	111.50
1	N	63	C	C6-N1-C1'	-5.20	114.56	120.80
1	N	177	G	OP1-P-OP2	-5.20	111.81	119.60
1	N	627	G	N3-C4-C5	-5.20	126.00	128.60
1	N	1047	G	N3-C4-C5	-5.20	126.00	128.60
1	N	1094	G	C8-N9-C4	5.20	108.48	106.40
1	N	1198	G	O4'-C1'-N9	5.20	112.36	108.20
1	N	1419	G	C5-C6-O6	-5.20	125.48	128.60
1	N	1118	U	N3-C4-O4	5.19	123.04	119.40
1	N	1436	U	N3-C4-O4	5.19	123.04	119.40
1	N	303	A	P-O5'-C5'	-5.19	112.59	120.90
1	N	370	C	P-O5'-C5'	5.19	129.21	120.90
1	N	556	C	C4-C5-C6	5.19	120.00	117.40
1	N	732	C	P-O5'-C5'	5.19	129.21	120.90
1	N	1193	G	N3-C2-N2	5.19	123.53	119.90
1	N	1384	C	C5-C4-N4	-5.19	116.56	120.20
1	N	204	G	C4-C5-C6	5.19	121.92	118.80
1	N	380	G	C2-N3-C4	5.19	114.50	111.90
1	N	433	G	C8-N9-C4	-5.19	104.32	106.40
1	N	913	A	N3-C4-C5	-5.19	123.17	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1023	U	C5-C4-O4	-5.19	122.79	125.90
1	N	280	C	O4'-C1'-C2'	-5.19	100.61	105.80
1	N	581	G	C4'-C3'-C2'	-5.19	97.41	102.60
1	N	293	G	N3-C4-N9	-5.19	122.89	126.00
1	N	433	G	N1-C6-O6	5.19	123.01	119.90
1	N	902	G	P-O5'-C5'	5.19	129.20	120.90
1	N	1024	G	P-O5'-C5'	5.19	129.20	120.90
1	N	1092	A	C4-N9-C1'	5.19	135.64	126.30
1	N	539	A	C5-N7-C8	5.19	106.49	103.90
1	N	1284	C	C6-N1-C2	-5.19	118.23	120.30
1	N	1362	A	OP1-P-OP2	-5.19	111.82	119.60
1	N	1492	A	C4-C5-C6	5.19	119.59	117.00
1	N	111	G	N3-C2-N2	-5.18	116.27	119.90
1	N	340	U	C3'-C2'-C1'	5.18	105.65	101.50
1	N	478	A	C4-C5-C6	5.18	119.59	117.00
1	N	753	A	C4-C5-N7	-5.18	108.11	110.70
1	N	776	G	C5'-C4'-O4'	5.18	115.32	109.10
1	N	961	U	N3-C4-O4	5.18	123.03	119.40
1	N	1246	A	C4-C5-N7	-5.18	108.11	110.70
1	N	127	G	C5'-C4'-O4'	5.18	115.32	109.10
1	N	573	A	C6-C5-N7	-5.18	128.67	132.30
1	N	650	G	C5-C6-N1	-5.18	108.91	111.50
1	N	1289	A	C5-C6-N6	-5.18	119.56	123.70
1	N	1526	G	N3-C4-N9	5.18	129.11	126.00
1	N	347	G	N9-C4-C5	5.18	107.47	105.40
1	N	348	G	N3-C4-C5	5.18	131.19	128.60
1	N	403	C	O5'-C5'-C4'	5.18	121.55	111.70
1	N	1236	A	C5-N7-C8	5.18	106.49	103.90
1	N	890	G	C3'-C2'-C1'	-5.18	97.36	101.50
1	N	922	G	C5-C6-O6	-5.18	125.49	128.60
1	N	1431	A	N7-C8-N9	5.18	116.39	113.80
1	N	200	G	C1'-O4'-C4'	-5.18	105.76	109.90
1	N	667	G	OP1-P-OP2	-5.18	111.83	119.60
1	N	954	G	N1-C2-N2	5.18	120.86	116.20
1	N	1465	A	C4-C5-N7	-5.18	108.11	110.70
1	N	759	A	C1'-O4'-C4'	-5.18	105.76	109.90
1	N	1093	A	C5-C6-N6	-5.18	119.56	123.70
1	N	436	C	N1-C2-N3	5.17	122.82	119.20
1	N	572	A	N3-C4-N9	5.17	131.54	127.40
1	N	783	C	N3-C4-N4	5.17	121.62	118.00
1	N	957	U	C5-C4-O4	5.17	129.00	125.90
1	N	1081	A	C5-N7-C8	-5.17	101.31	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1105	A	C8-N9-C4	-5.17	103.73	105.80
1	N	1359	C	P-O5'-C5'	-5.17	112.62	120.90
1	N	1438	G	C4-N9-C1'	5.17	133.23	126.50
1	N	169	C	N1-C2-O2	-5.17	115.80	118.90
1	N	358	U	N3-C2-O2	-5.17	118.58	122.20
1	N	464	U	C2-N3-C4	-5.17	123.90	127.00
1	N	842	U	O4'-C1'-N1	5.17	112.34	108.20
1	N	1203	C	C6-N1-C2	-5.17	118.23	120.30
1	N	1359	C	C2-N3-C4	5.17	122.49	119.90
1	N	1478	U	P-O3'-C3'	5.17	125.91	119.70
1	N	1532	U	N3-C4-C5	-5.17	111.50	114.60
1	N	301	G	O4'-C4'-C3'	-5.17	98.83	104.00
1	N	322	C	O5'-C5'-C4'	-5.17	101.87	111.70
1	N	910	C	N3-C4-N4	5.17	121.62	118.00
1	N	941	G	O4'-C1'-N9	5.17	112.34	108.20
1	N	1169	A	C5-N7-C8	5.17	106.49	103.90
1	N	1370	G	C6-N1-C2	5.17	128.20	125.10
1	N	1386	G	O5'-C5'-C4'	-5.17	101.87	111.70
1	N	543	U	O4'-C1'-N1	5.17	112.34	108.20
1	N	1332	A	C4'-C3'-C2'	-5.17	97.43	102.60
1	N	95	C	C6-N1-C2	-5.17	118.23	120.30
1	N	157	U	N3-C2-O2	5.17	125.82	122.20
1	N	252	U	O3'-P-O5'	-5.17	94.18	104.00
1	N	368	U	C1'-O4'-C4'	-5.17	105.77	109.90
1	N	554	A	O4'-C4'-C3'	-5.17	98.83	104.00
1	N	605	U	C2-N3-C4	-5.17	123.90	127.00
1	N	824	G	C5'-C4'-O4'	5.17	115.30	109.10
1	N	825	A	C6-C5-N7	-5.17	128.68	132.30
1	N	1031	C	C4-C5-C6	5.17	119.98	117.40
1	N	1090	U	C1'-O4'-C4'	-5.17	105.77	109.90
1	N	1153	G	C5'-C4'-O4'	-5.17	102.90	109.10
1	N	282	A	O4'-C1'-N9	5.17	112.33	108.20
1	N	347	G	P-O5'-C5'	5.17	129.16	120.90
1	N	518	C	C6-N1-C2	-5.17	118.23	120.30
1	N	546	A	C6-C5-N7	-5.17	128.68	132.30
1	N	561	U	C5-C6-N1	5.17	125.28	122.70
1	N	835	U	C4'-C3'-C2'	-5.17	97.43	102.60
1	N	1171	A	C4-C5-C6	5.17	119.58	117.00
1	N	1499	A	N3-C4-N9	5.17	131.53	127.40
1	N	566	G	C1'-O4'-C4'	5.17	114.03	109.90
1	N	1134	G	C6-N1-C2	5.16	128.20	125.10
1	N	1359	C	O4'-C1'-N1	5.16	112.33	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	586	C	C2'-C3'-O3'	5.16	121.96	113.70
1	N	369	G	N7-C8-N9	-5.16	110.52	113.10
1	N	530	G	C4-C5-C6	5.16	121.90	118.80
1	N	1230	C	P-O3'-C3'	5.16	125.89	119.70
1	N	1419	G	N1-C2-N2	-5.16	111.56	116.20
1	N	1488	G	C3'-C2'-C1'	5.16	105.63	101.50
1	N	28	A	OP2-P-O3'	5.16	116.55	105.20
1	N	126	G	N9-C4-C5	5.16	107.46	105.40
1	N	1344	C	P-O3'-C3'	-5.16	113.51	119.70
1	N	1406	U	C5-C4-O4	5.16	129.00	125.90
1	N	1471	U	C5-C4-O4	-5.16	122.81	125.90
1	N	5	U	C2-N1-C1'	5.16	123.89	117.70
1	N	116	A	C4'-C3'-C2'	-5.16	97.44	102.60
1	N	543	U	N3-C4-C5	-5.16	111.51	114.60
1	N	108	G	C2-N3-C4	5.16	114.48	111.90
1	N	142	G	C3'-C2'-C1'	5.16	105.62	101.50
1	N	564	C	C6-N1-C1'	-5.16	114.61	120.80
1	N	582	C	C4-C5-C6	-5.16	114.82	117.40
1	N	826	C	C2-N3-C4	5.16	122.48	119.90
1	N	863	U	C4'-C3'-C2'	-5.16	97.44	102.60
1	N	962	C	N1-C2-N3	-5.16	115.59	119.20
1	N	1107	C	C6-N1-C2	-5.16	118.24	120.30
1	N	1341	U	C4'-C3'-C2'	-5.16	97.44	102.60
1	N	629	A	C5-C6-N6	-5.15	119.58	123.70
1	N	775	G	O4'-C1'-N9	5.15	112.32	108.20
1	N	807	A	P-O3'-C3'	5.15	125.88	119.70
1	N	1095	U	C4'-C3'-C2'	-5.15	97.45	102.60
1	N	1408	A	N9-C4-C5	-5.15	103.74	105.80
1	N	246	A	C3'-C2'-C1'	5.15	105.62	101.50
1	N	412	A	N1-C6-N6	5.15	121.69	118.60
1	N	3	A	C4-C5-N7	-5.15	108.12	110.70
1	N	342	C	C2-N3-C4	5.15	122.47	119.90
1	N	957	U	O4'-C1'-C2'	-5.15	100.65	105.80
1	N	1336	C	C2-N3-C4	5.15	122.47	119.90
1	N	147	G	C6-C5-N7	-5.15	127.31	130.40
1	N	374	A	C8-N9-C1'	5.15	136.97	127.70
1	N	593	U	N3-C4-O4	5.15	123.00	119.40
1	N	626	G	C4'-C3'-C2'	-5.15	97.45	102.60
1	N	734	G	C2-N3-C4	5.15	114.47	111.90
1	N	797	C	C5-C6-N1	-5.15	118.43	121.00
1	N	1281	C	C6-N1-C2	-5.15	118.24	120.30
1	N	119	A	N7-C8-N9	-5.15	111.23	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1069	C	C5'-C4'-O4'	5.15	115.28	109.10
1	N	1244	G	C3'-C2'-C1'	-5.15	97.38	101.50
1	N	190	A	C5-N7-C8	5.14	106.47	103.90
1	N	338	A	C4'-C3'-C2'	-5.14	97.45	102.60
1	N	746	A	C5-N7-C8	5.14	106.47	103.90
1	N	829	G	C5-C6-N1	-5.14	108.93	111.50
1	N	929	G	C5-C6-N1	-5.14	108.93	111.50
1	N	1287	A	C5'-C4'-O4'	5.14	115.27	109.10
1	N	1529	G	N3-C2-N2	5.14	123.50	119.90
1	N	207	C	P-O3'-C3'	5.14	125.87	119.70
1	N	304	U	N1-C2-O2	5.14	126.40	122.80
1	N	371	A	C6-N1-C2	-5.14	115.52	118.60
1	N	468	A	C6-N1-C2	-5.14	115.51	118.60
1	N	1287	A	N7-C8-N9	-5.14	111.23	113.80
1	N	1452	C	C2-N1-C1'	5.14	124.46	118.80
1	N	534	U	C5-C6-N1	-5.14	120.13	122.70
1	N	602	A	N1-C6-N6	5.14	121.69	118.60
1	N	269	C	O4'-C1'-N1	5.14	112.31	108.20
1	N	630	A	N7-C8-N9	-5.14	111.23	113.80
1	N	1122	U	OP1-P-OP2	-5.14	111.89	119.60
1	N	1532	U	C1'-O4'-C4'	5.14	114.01	109.90
1	N	738	C	P-O5'-C5'	5.14	129.12	120.90
1	N	807	A	C5-N7-C8	5.14	106.47	103.90
1	N	942	G	C8-N9-C4	-5.14	104.34	106.40
1	N	1073	U	C5-C6-N1	5.14	125.27	122.70
1	N	201	G	N1-C2-N2	5.13	120.82	116.20
1	N	206	C	C1'-O4'-C4'	5.13	114.01	109.90
1	N	243	A	N3-C4-C5	-5.13	123.21	126.80
1	N	350	G	P-O5'-C5'	-5.13	112.68	120.90
1	N	359	G	C5-N7-C8	5.13	106.87	104.30
1	N	792	A	C1'-O4'-C4'	-5.13	105.79	109.90
1	N	925	G	C4-C5-N7	-5.13	108.75	110.80
1	N	980	C	C2-N3-C4	-5.13	117.33	119.90
1	N	363	A	O4'-C4'-C3'	-5.13	98.87	104.00
1	N	587	G	N7-C8-N9	5.13	115.67	113.10
1	N	730	G	C6-C5-N7	-5.13	127.32	130.40
1	N	151	A	O4'-C4'-C3'	-5.13	98.87	104.00
1	N	391	G	C3'-C2'-C1'	5.13	105.61	101.50
1	N	531	U	C2-N1-C1'	5.13	123.86	117.70
1	N	630	A	C2'-C3'-O3'	5.13	121.91	113.70
1	N	727	G	C5-N7-C8	5.13	106.87	104.30
1	N	788	U	O4'-C1'-N1	5.13	112.30	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	810	C	N3-C2-O2	-5.13	118.31	121.90
1	N	966	G	N1-C2-N3	-5.13	120.82	123.90
1	N	1347	G	N1-C2-N2	-5.13	111.58	116.20
1	N	1372	U	C1'-O4'-C4'	-5.13	105.80	109.90
1	N	1497	G	N7-C8-N9	-5.13	110.53	113.10
1	N	15	G	O4'-C4'-C3'	-5.13	98.87	104.00
1	N	427	U	P-O3'-C3'	5.13	125.86	119.70
1	N	441	A	C6-C5-N7	-5.13	128.71	132.30
1	N	1068	G	C5-C6-N1	-5.13	108.94	111.50
1	N	19	A	C8-N9-C4	-5.13	103.75	105.80
1	N	824	G	C3'-C2'-C1'	-5.13	97.40	101.50
1	N	989	U	P-O3'-C3'	-5.13	113.55	119.70
1	N	1086	U	C2-N3-C4	-5.13	123.92	127.00
1	N	1158	C	C6-N1-C1'	-5.13	114.65	120.80
1	N	1252	A	N7-C8-N9	-5.13	111.24	113.80
1	N	1255	G	C6-N1-C2	5.13	128.18	125.10
1	N	1349	A	C4-C5-C6	5.13	119.56	117.00
1	N	30	U	P-O5'-C5'	5.13	129.10	120.90
1	N	270	A	P-O3'-C3'	5.13	125.85	119.70
1	N	318	G	P-O3'-C3'	-5.13	113.55	119.70
1	N	353	A	C5-C6-N6	-5.13	119.60	123.70
1	N	468	A	C8-N9-C1'	-5.13	118.47	127.70
1	N	927	G	C4-C5-C6	5.13	121.88	118.80
1	N	1296	C	N3-C4-C5	5.13	123.95	121.90
1	N	1300	G	C6-N1-C2	5.13	128.18	125.10
1	N	1318	A	P-O5'-C5'	5.13	129.10	120.90
1	N	1329	A	C6-N1-C2	5.13	121.68	118.60
1	N	63	C	P-O3'-C3'	5.12	125.85	119.70
1	N	363	A	OP2-P-O3'	5.12	116.47	105.20
1	N	410	G	C6-N1-C2	5.12	128.18	125.10
1	N	58	C	C2-N1-C1'	5.12	124.44	118.80
1	N	73	C	N3-C2-O2	-5.12	118.31	121.90
1	N	1489	G	C4-C5-N7	-5.12	108.75	110.80
1	N	51	A	C5-C6-N6	-5.12	119.60	123.70
1	N	530	G	N1-C2-N3	-5.12	120.83	123.90
1	N	759	A	C6-N1-C2	5.12	121.67	118.60
1	N	943	U	C3'-C2'-C1'	5.12	105.60	101.50
1	N	973	G	C5-C6-N1	-5.12	108.94	111.50
1	N	1297	G	C2-N3-C4	-5.12	109.34	111.90
1	N	1422	G	N9-C1'-C2'	-5.12	106.37	112.00
1	N	1454	G	C4'-C3'-C2'	-5.12	97.48	102.60
1	N	1512	U	C3'-C2'-C1'	5.12	105.60	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	415	A	P-O5'-C5'	5.12	129.09	120.90
1	N	581	G	N1-C2-N3	-5.12	120.83	123.90
1	N	631	C	C1'-O4'-C4'	-5.12	105.80	109.90
1	N	632	U	C2-N1-C1'	5.12	123.84	117.70
1	N	736	C	C2-N1-C1'	5.12	124.43	118.80
1	N	988	G	C6-C5-N7	-5.12	127.33	130.40
1	N	1037	C	C1'-O4'-C4'	5.12	114.00	109.90
1	N	1270	G	N3-C2-N2	-5.12	116.32	119.90
1	N	1377	A	P-O3'-C3'	5.12	125.84	119.70
1	N	87	C	C5'-C4'-C3'	-5.12	107.81	116.00
1	N	115	G	N9-C1'-C2'	-5.12	106.37	112.00
1	N	737	C	N3-C2-O2	5.12	125.48	121.90
1	N	986	U	P-O5'-C5'	5.12	129.09	120.90
1	N	1332	A	N1-C2-N3	5.12	131.86	129.30
1	N	94	G	O4'-C1'-N9	5.12	112.29	108.20
1	N	179	A	P-O3'-C3'	-5.12	113.56	119.70
1	N	1316	G	C8-N9-C4	5.12	108.45	106.40
1	N	1448	C	P-O5'-C5'	-5.12	112.71	120.90
1	N	341	C	C1'-O4'-C4'	5.12	113.99	109.90
1	N	357	G	N1-C2-N3	-5.12	120.83	123.90
1	N	1016	A	C5-C6-N6	-5.12	119.61	123.70
1	N	1082	A	C5-C6-N1	-5.12	115.14	117.70
1	N	1391	U	N3-C4-O4	5.12	122.98	119.40
1	N	1443	C	N3-C4-C5	-5.12	119.85	121.90
1	N	1451	U	C2-N3-C4	5.12	130.07	127.00
1	N	153	C	O4'-C4'-C3'	-5.11	98.89	104.00
1	N	266	G	O3'-P-O5'	5.11	113.71	104.00
1	N	816	A	C5'-C4'-C3'	-5.11	107.82	116.00
1	N	908	A	C2'-C3'-O3'	5.11	121.88	113.70
1	N	1434	A	O5'-C5'-C4'	-5.11	101.98	111.70
1	N	61	G	C2-N3-C4	5.11	114.45	111.90
1	N	141	G	C6-C5-N7	-5.11	127.33	130.40
1	N	277	C	C5-C4-N4	-5.11	116.62	120.20
1	N	957	U	N1-C2-N3	5.11	117.97	114.90
1	N	1090	U	C5-C4-O4	-5.11	122.83	125.90
1	N	3	A	N1-C2-N3	5.11	131.85	129.30
1	N	243	A	C5-C6-N6	-5.11	119.61	123.70
1	N	311	C	C6-N1-C2	-5.11	118.26	120.30
1	N	413	G	C5-C6-O6	-5.11	125.53	128.60
1	N	483	C	C6-N1-C2	-5.11	118.26	120.30
1	N	162	A	C6-C5-N7	-5.11	128.72	132.30
1	N	482	A	P-O3'-C3'	-5.11	113.57	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	908	A	N1-C6-N6	5.11	121.66	118.60
1	N	991	U	C6-N1-C1'	-5.11	114.05	121.20
1	N	1092	A	P-O5'-C5'	-5.11	112.73	120.90
1	N	1095	U	C4-C5-C6	-5.11	116.64	119.70
1	N	1408	A	C5-C6-N6	-5.11	119.61	123.70
1	N	48	C	C6-N1-C2	5.11	122.34	120.30
1	N	115	G	N3-C2-N2	5.11	123.47	119.90
1	N	1119	C	C2-N1-C1'	5.11	124.42	118.80
1	N	1132	C	C1'-O4'-C4'	5.11	113.98	109.90
1	N	1139	G	C6-C5-N7	-5.11	127.34	130.40
1	N	821	G	P-O5'-C5'	5.10	129.07	120.90
1	N	967	C	C4-C5-C6	5.10	119.95	117.40
1	N	1064	G	N3-C4-C5	-5.10	126.05	128.60
1	N	250	A	N1-C2-N3	5.10	131.85	129.30
1	N	459	A	C5-N7-C8	5.10	106.45	103.90
1	N	607	A	C5'-C4'-C3'	-5.10	107.84	116.00
1	N	732	C	OP1-P-O3'	5.10	116.43	105.20
1	N	786	G	O4'-C1'-N9	5.10	112.28	108.20
1	N	985	C	N1-C2-O2	5.10	121.96	118.90
1	N	1026	G	N3-C2-N2	5.10	123.47	119.90
1	N	1068	G	O4'-C1'-N9	5.10	112.28	108.20
1	N	97	G	N3-C2-N2	5.10	123.47	119.90
1	N	129	A	N9-C4-C5	5.10	107.84	105.80
1	N	557	G	O4'-C4'-C3'	-5.10	98.90	104.00
1	N	621	A	O4'-C1'-N9	5.10	112.28	108.20
1	N	930	C	P-O5'-C5'	5.10	129.06	120.90
1	N	103	U	C4-C5-C6	5.10	122.76	119.70
1	N	287	U	P-O5'-C5'	-5.10	112.75	120.90
1	N	527	G	C4'-C3'-C2'	-5.10	97.50	102.60
1	N	582	C	C6-N1-C1'	-5.10	114.68	120.80
1	N	635	A	C2-N3-C4	5.10	113.15	110.60
1	N	847	G	O4'-C1'-N9	5.10	112.28	108.20
1	N	994	A	N1-C6-N6	5.10	121.66	118.60
1	N	1058	G	O4'-C1'-N9	5.10	112.28	108.20
1	N	145	G	N1-C2-N2	5.10	120.79	116.20
1	N	397	A	C4-C5-C6	5.10	119.55	117.00
1	N	1107	C	N3-C2-O2	5.10	125.47	121.90
1	N	100	G	N7-C8-N9	5.09	115.65	113.10
1	N	285	C	P-O5'-C5'	5.09	129.05	120.90
1	N	327	A	C4-C5-C6	5.09	119.55	117.00
1	N	368	U	C4'-C3'-C2'	-5.09	97.50	102.60
1	N	642	A	P-O3'-C3'	-5.09	113.59	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1468	A	C2-N3-C4	-5.09	108.05	110.60
1	N	1504	G	N9-C4-C5	-5.09	103.36	105.40
1	N	197	A	C5-C6-N6	-5.09	119.62	123.70
1	N	271	C	N3-C2-O2	-5.09	118.33	121.90
1	N	370	C	C4'-C3'-C2'	-5.09	97.51	102.60
1	N	880	C	C5-C6-N1	5.09	123.55	121.00
1	N	1013	G	C4-N9-C1'	5.09	133.12	126.50
1	N	38	G	C4-N9-C1'	-5.09	119.88	126.50
1	N	159	G	O4'-C1'-N9	5.09	112.27	108.20
1	N	416	G	N9-C4-C5	-5.09	103.36	105.40
1	N	963	G	N3-C4-C5	-5.09	126.05	128.60
1	N	969	A	C8-N9-C4	-5.09	103.76	105.80
1	N	1099	G	N3-C4-C5	5.09	131.15	128.60
1	N	1513	A	O4'-C1'-N9	5.09	112.27	108.20
1	N	463	U	N3-C4-O4	-5.09	115.84	119.40
1	N	540	G	C8-N9-C4	5.09	108.44	106.40
1	N	582	C	P-O5'-C5'	5.09	129.04	120.90
1	N	1405	G	N3-C2-N2	5.09	123.46	119.90
1	N	1528	U	P-O5'-C5'	-5.09	112.76	120.90
1	N	1032	G	O4'-C1'-N9	5.09	112.27	108.20
1	N	1185	G	N9-C1'-C2'	-5.09	106.40	112.00
1	N	1203	C	P-O5'-C5'	5.09	129.04	120.90
1	N	43	C	C2-N1-C1'	5.09	124.40	118.80
1	N	800	G	N1-C2-N3	-5.09	120.85	123.90
1	N	918	A	N1-C6-N6	5.09	121.65	118.60
1	N	1415	G	N7-C8-N9	5.09	115.64	113.10
1	N	1516	G	N1-C2-N3	-5.09	120.85	123.90
1	N	978	A	N7-C8-N9	-5.08	111.26	113.80
1	N	58	C	P-O5'-C5'	5.08	129.03	120.90
1	N	591	U	C5-C6-N1	5.08	125.24	122.70
1	N	813	U	C5-C4-O4	-5.08	122.85	125.90
1	N	830	G	C5'-C4'-C3'	5.08	124.13	116.00
1	N	1123	U	O4'-C1'-N1	5.08	112.27	108.20
1	N	1138	G	C4-C5-C6	5.08	121.85	118.80
1	N	1413	A	C8-N9-C4	-5.08	103.77	105.80
1	N	319	G	C6-N1-C2	5.08	128.15	125.10
1	N	659	U	P-O3'-C3'	-5.08	113.60	119.70
1	N	1117	A	N3-C4-C5	-5.08	123.24	126.80
1	N	1195	C	C5-C6-N1	5.08	123.54	121.00
1	N	1386	G	N1-C2-N3	-5.08	120.85	123.90
1	N	396	C	O5'-C5'-C4'	-5.08	102.05	111.70
1	N	975	A	N7-C8-N9	-5.08	111.26	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1028	C	C5-C6-N1	-5.08	118.46	121.00
1	N	284	C	P-O3'-C3'	5.08	125.79	119.70
1	N	308	C	C2-N3-C4	5.08	122.44	119.90
1	N	389	A	C5-C6-N6	-5.08	119.64	123.70
1	N	439	U	N1-C2-O2	-5.08	119.25	122.80
1	N	585	G	O5'-C5'-C4'	-5.08	102.05	111.70
1	N	755	G	C5'-C4'-O4'	5.08	115.19	109.10
1	N	776	G	C3'-C2'-C1'	5.08	105.56	101.50
1	N	810	C	C1'-O4'-C4'	-5.08	105.84	109.90
1	N	1263	C	N1-C1'-C2'	-5.08	106.41	112.00
1	N	1347	G	C4-C5-N7	-5.08	108.77	110.80
1	N	608	A	N3-C4-C5	-5.08	123.25	126.80
1	N	634	C	N3-C2-O2	5.08	125.45	121.90
1	N	713	G	C5-C6-O6	-5.08	125.55	128.60
1	N	852	G	N9-C4-C5	-5.08	103.37	105.40
1	N	71	A	C2-N3-C4	5.08	113.14	110.60
1	N	183	C	C2'-C3'-O3'	5.08	121.82	113.70
1	N	1121	U	C5-C6-N1	-5.08	120.16	122.70
1	N	1235	U	O3'-P-O5'	-5.08	94.36	104.00
1	N	67	C	O4'-C1'-C2'	-5.07	100.73	105.80
1	N	95	C	OP1-P-OP2	-5.07	111.99	119.60
1	N	781	A	C6-C5-N7	-5.07	128.75	132.30
1	N	1059	C	O4'-C1'-C2'	-5.07	100.73	105.80
1	N	1093	A	C5-N7-C8	5.07	106.44	103.90
1	N	1113	C	N3-C4-N4	5.07	121.55	118.00
1	N	1248	A	N3-C4-N9	5.07	131.46	127.40
1	N	1340	A	P-O5'-C5'	5.07	129.02	120.90
1	N	1370	G	C4-C5-C6	5.07	121.84	118.80
1	N	1489	G	P-O5'-C5'	-5.07	112.78	120.90
1	N	244	U	C5'-C4'-C3'	-5.07	107.88	116.00
1	N	1195	C	C6-N1-C1'	-5.07	114.71	120.80
1	N	101	A	C6-C5-N7	-5.07	128.75	132.30
1	N	456	A	N1-C2-N3	5.07	131.84	129.30
1	N	624	C	C5'-C4'-O4'	5.07	115.19	109.10
1	N	640	A	N3-C4-N9	5.07	131.46	127.40
1	N	763	G	N1-C6-O6	5.07	122.94	119.90
1	N	939	G	C2-N3-C4	5.07	114.44	111.90
1	N	1035	A	C2-N3-C4	5.07	113.14	110.60
1	N	1061	G	N3-C2-N2	5.07	123.45	119.90
1	N	1146	A	C4-C5-N7	5.07	113.23	110.70
1	N	1159	U	C4'-C3'-C2'	-5.07	97.53	102.60
1	N	1241	G	N3-C2-N2	5.07	123.45	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1377	A	C5-C6-N6	-5.07	119.64	123.70
1	N	1398	A	C5-C6-N1	-5.07	115.17	117.70
1	N	1515	G	C6-C5-N7	-5.07	127.36	130.40
1	N	833	G	C2-N3-C4	-5.07	109.37	111.90
1	N	956	U	P-O3'-C3'	-5.07	113.62	119.70
1	N	1431	A	C1'-O4'-C4'	5.07	113.95	109.90
1	N	165	G	N7-C8-N9	5.07	115.63	113.10
1	N	696	A	C6-C5-N7	-5.07	128.75	132.30
1	N	852	G	C6-C5-N7	-5.07	127.36	130.40
1	N	937	A	C8-N9-C4	-5.07	103.77	105.80
1	N	193	C	N3-C2-O2	-5.07	118.36	121.90
1	N	487	A	C6-C5-N7	-5.07	128.75	132.30
1	N	540	G	N9-C4-C5	-5.07	103.37	105.40
1	N	1335	U	O4'-C4'-C3'	-5.07	98.94	104.00
1	N	1518	A	C6-C5-N7	-5.07	128.75	132.30
1	N	1202	U	C5'-C4'-C3'	5.06	124.10	116.00
1	N	195	A	P-O3'-C3'	-5.06	113.63	119.70
1	N	204	G	N1-C2-N3	-5.06	120.86	123.90
1	N	211	G	C8-N9-C1'	-5.06	120.42	127.00
1	N	519	C	N3-C4-N4	5.06	121.54	118.00
1	N	774	G	C6-C5-N7	-5.06	127.36	130.40
1	N	860	A	P-O3'-C3'	5.06	125.78	119.70
1	N	1437	A	C5-C6-N1	-5.06	115.17	117.70
1	N	58	C	C5-C4-N4	-5.06	116.66	120.20
1	N	251	G	N7-C8-N9	5.06	115.63	113.10
1	N	272	C	P-O3'-C3'	5.06	125.77	119.70
1	N	1174	G	C3'-C2'-C1'	-5.06	97.45	101.50
1	N	1513	A	C5-C6-N1	-5.06	115.17	117.70
1	N	21	G	N1-C2-N3	-5.06	120.86	123.90
1	N	49	U	C5-C4-O4	5.06	128.94	125.90
1	N	195	A	C4-C5-N7	-5.06	108.17	110.70
1	N	295	C	C5'-C4'-O4'	5.06	115.17	109.10
1	N	299	G	O4'-C1'-N9	5.06	112.25	108.20
1	N	450	G	N3-C4-N9	5.06	129.04	126.00
1	N	609	A	N3-C4-N9	5.06	131.45	127.40
1	N	863	U	N3-C4-C5	-5.06	111.56	114.60
1	N	1085	U	OP1-P-OP2	-5.06	112.01	119.60
1	N	1231	G	O4'-C1'-N9	5.06	112.25	108.20
1	N	53	A	P-O5'-C5'	5.06	128.99	120.90
1	N	443	C	OP2-P-O3'	5.06	116.33	105.20
1	N	470	C	C2-N3-C4	5.06	122.43	119.90
1	N	668	G	C4-N9-C1'	5.06	133.07	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	927	G	N9-C4-C5	5.06	107.42	105.40
1	N	928	G	N7-C8-N9	5.06	115.63	113.10
1	N	1106	G	C6-C5-N7	-5.06	127.37	130.40
1	N	1114	C	N3-C4-C5	-5.06	119.88	121.90
1	N	1444	U	N3-C2-O2	5.06	125.74	122.20
1	N	11	G	OP1-P-OP2	-5.06	112.02	119.60
1	N	62	U	P-O3'-C3'	-5.06	113.63	119.70
1	N	238	A	N9-C4-C5	5.06	107.82	105.80
1	N	329	A	O5'-C5'-C4'	-5.06	102.09	111.70
1	N	807	A	N1-C2-N3	5.06	131.83	129.30
1	N	1193	G	C4-C5-C6	5.06	121.83	118.80
1	N	1469	C	C2'-C3'-O3'	5.06	121.79	113.70
1	N	53	A	N1-C2-N3	5.05	131.83	129.30
1	N	86	G	C5'-C4'-O4'	5.05	115.17	109.10
1	N	291	U	C4-C5-C6	-5.05	116.67	119.70
1	N	329	A	C8-N9-C4	-5.05	103.78	105.80
1	N	708	C	C6-N1-C1'	-5.05	114.73	120.80
1	N	1348	U	C5'-C4'-O4'	-5.05	103.03	109.10
1	N	687	A	C5-C6-N6	-5.05	119.66	123.70
1	N	160	A	C4-N9-C1'	5.05	135.39	126.30
1	N	358	U	C4-C5-C6	5.05	122.73	119.70
1	N	454	G	C6-N1-C2	5.05	128.13	125.10
1	N	456	A	C5'-C4'-C3'	-5.05	107.92	116.00
1	N	788	U	C1'-O4'-C4'	5.05	113.94	109.90
1	N	791	G	O4'-C1'-N9	5.05	112.24	108.20
1	N	1040	U	C4-C5-C6	5.05	122.73	119.70
1	N	1046	A	C5-N7-C8	5.05	106.43	103.90
1	N	1402	C	OP1-P-OP2	-5.05	112.02	119.60
1	N	1474	U	C5-C6-N1	5.05	125.23	122.70
1	N	1494	G	N9-C4-C5	5.05	107.42	105.40
1	N	115	G	N3-C4-C5	5.05	131.12	128.60
1	N	189	A	N7-C8-N9	5.05	116.32	113.80
1	N	232	G	OP1-P-OP2	-5.05	112.03	119.60
1	N	234	C	C4'-C3'-C2'	-5.05	97.55	102.60
1	N	260	G	N9-C4-C5	5.05	107.42	105.40
1	N	1119	C	OP2-P-O3'	5.05	116.31	105.20
1	N	1252	A	C4'-C3'-C2'	-5.05	97.55	102.60
1	N	1278	G	N3-C4-C5	-5.05	126.08	128.60
1	N	1322	C	N1-C2-N3	-5.05	115.67	119.20
1	N	1461	G	C8-N9-C1'	5.05	133.56	127.00
1	N	1472	U	O5'-C5'-C4'	-5.05	102.11	111.70
1	N	40	C	C6-N1-C2	-5.05	118.28	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	61	G	P-O3'-C3'	-5.05	113.64	119.70
1	N	265	G	N7-C8-N9	-5.05	110.58	113.10
1	N	351	G	O4'-C1'-N9	5.05	112.24	108.20
1	N	359	G	N1-C2-N3	-5.05	120.87	123.90
1	N	394	G	C4-C5-N7	5.05	112.82	110.80
1	N	435	A	P-O5'-C5'	5.05	128.98	120.90
1	N	951	G	C3'-C2'-C1'	5.05	105.54	101.50
1	N	1039	G	C2-N3-C4	-5.05	109.38	111.90
1	N	1049	U	OP1-P-OP2	-5.05	112.03	119.60
1	N	1341	U	N3-C2-O2	-5.05	118.67	122.20
1	N	561	U	P-O3'-C3'	5.04	125.75	119.70
1	N	653	U	N1-C2-O2	-5.04	119.27	122.80
1	N	865	A	O4'-C1'-N9	5.04	112.24	108.20
1	N	204	G	C4'-C3'-O3'	5.04	123.09	113.00
1	N	441	A	C5'-C4'-C3'	-5.04	107.93	116.00
1	N	567	G	P-O5'-C5'	5.04	128.97	120.90
1	N	750	C	OP1-P-OP2	-5.04	112.03	119.60
1	N	958	A	C6-C5-N7	-5.04	128.77	132.30
1	N	1102	A	O4'-C4'-C3'	-5.04	98.96	104.00
1	N	1404	C	N3-C4-N4	5.04	121.53	118.00
1	N	1494	G	C5'-C4'-O4'	5.04	115.15	109.10
1	N	234	C	C4-C5-C6	-5.04	114.88	117.40
1	N	460	A	O3'-P-O5'	5.04	113.58	104.00
1	N	624	C	C2-N3-C4	5.04	122.42	119.90
1	N	635	A	C5'-C4'-O4'	5.04	115.15	109.10
1	N	677	U	C4'-C3'-C2'	5.04	107.64	102.60
1	N	791	G	OP1-P-OP2	-5.04	112.04	119.60
1	N	912	C	O4'-C4'-C3'	-5.04	98.96	104.00
1	N	806	C	C5-C4-N4	5.04	123.73	120.20
1	N	839	C	C5-C6-N1	-5.04	118.48	121.00
1	N	1403	C	O4'-C1'-N1	5.04	112.23	108.20
1	N	195	A	O4'-C4'-C3'	-5.04	98.96	104.00
1	N	264	C	C5-C6-N1	5.04	123.52	121.00
1	N	836	G	C4-C5-C6	5.04	121.82	118.80
1	N	1125	U	P-O3'-C3'	5.04	125.75	119.70
1	N	1216	A	C8-N9-C1'	5.04	136.77	127.70
1	N	1317	C	C1'-O4'-C4'	-5.04	105.87	109.90
1	N	194	C	N1-C2-N3	-5.04	115.67	119.20
1	N	671	G	C5-N7-C8	-5.04	101.78	104.30
1	N	889	A	C4'-C3'-C2'	5.04	107.64	102.60
1	N	1306	A	C6-C5-N7	-5.04	128.77	132.30
1	N	2	A	C5'-C4'-O4'	5.04	115.14	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	138	G	C2-N3-C4	5.04	114.42	111.90
1	N	421	U	N3-C4-O4	5.04	122.92	119.40
1	N	691	G	N3-C4-N9	-5.04	122.98	126.00
1	N	976	G	C4-C5-N7	-5.04	108.79	110.80
1	N	1041	G	C5-C6-N1	-5.04	108.98	111.50
1	N	1488	G	C5-C6-N1	-5.04	108.98	111.50
1	N	186	C	C1'-O4'-C4'	5.03	113.93	109.90
1	N	469	C	O4'-C1'-N1	5.03	112.23	108.20
1	N	114	U	N1-C2-O2	5.03	126.32	122.80
1	N	498	A	C5-N7-C8	-5.03	101.38	103.90
1	N	782	A	O4'-C1'-N9	5.03	112.22	108.20
1	N	1049	U	N3-C2-O2	5.03	125.72	122.20
1	N	9	G	N3-C4-N9	5.03	129.02	126.00
1	N	187	G	N3-C2-N2	5.03	123.42	119.90
1	N	754	C	C5-C4-N4	-5.03	116.68	120.20
1	N	871	U	C4'-C3'-C2'	5.03	107.63	102.60
1	N	918	A	C6-N1-C2	-5.03	115.58	118.60
1	N	1009	U	O4'-C1'-N1	5.03	112.22	108.20
1	N	1093	A	N7-C8-N9	-5.03	111.28	113.80
1	N	1423	G	C5-N7-C8	-5.03	101.78	104.30
1	N	53	A	N7-C8-N9	-5.03	111.28	113.80
1	N	1096	C	C4-C5-C6	5.03	119.92	117.40
1	N	156	C	O3'-P-O5'	-5.03	94.45	104.00
1	N	1126	U	O4'-C1'-N1	5.03	112.22	108.20
1	N	1202	U	C5'-C4'-O4'	-5.03	103.07	109.10
1	N	1365	G	C4'-C3'-C2'	-5.03	97.57	102.60
1	N	1504	G	OP1-P-OP2	-5.03	112.06	119.60
1	N	117	G	N9-C4-C5	5.03	107.41	105.40
1	N	178	C	O4'-C1'-N1	5.03	112.22	108.20
1	N	750	C	O5'-C5'-C4'	-5.03	102.15	111.70
1	N	1354	U	P-O5'-C5'	-5.03	112.86	120.90
1	N	1445	U	P-O3'-C3'	-5.03	113.67	119.70
1	N	54	C	N1-C2-N3	5.02	122.72	119.20
1	N	1129	C	C6-N1-C2	-5.02	118.29	120.30
1	N	1224	U	C6-N1-C2	5.02	124.01	121.00
1	N	1387	G	C5-C6-N1	-5.02	108.99	111.50
1	N	82	G	N3-C4-N9	5.02	129.01	126.00
1	N	908	A	O4'-C1'-N9	5.02	112.22	108.20
1	N	1247	U	N3-C2-O2	5.02	125.72	122.20
1	N	308	C	N3-C4-C5	-5.02	119.89	121.90
1	N	331	G	C6-N1-C2	5.02	128.11	125.10
1	N	384	G	O4'-C1'-N9	5.02	112.22	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	678	U	C5'-C4'-O4'	5.02	115.12	109.10
1	N	984	C	C5'-C4'-O4'	-5.02	103.08	109.10
1	N	1164	G	C8-N9-C4	5.02	108.41	106.40
1	N	1239	A	C4'-C3'-C2'	5.02	107.62	102.60
1	N	40	C	OP2-P-O3'	5.02	116.24	105.20
1	N	230	G	C4-C5-C6	5.02	121.81	118.80
1	N	361	G	N9-C4-C5	-5.02	103.39	105.40
1	N	477	C	O5'-P-OP2	-5.02	101.19	105.70
1	N	495	A	C6-C5-N7	-5.02	128.79	132.30
1	N	621	A	C2'-C3'-O3'	5.02	121.73	113.70
1	N	674	G	C4-C5-C6	5.02	121.81	118.80
1	N	854	U	C6-N1-C1'	-5.02	114.17	121.20
1	N	880	C	O4'-C4'-C3'	5.02	110.11	106.10
1	N	975	A	P-O5'-C5'	5.02	128.93	120.90
1	N	1053	G	N3-C4-N9	-5.02	122.99	126.00
1	N	1161	C	N1-C2-N3	-5.02	115.69	119.20
1	N	1198	G	N1-C2-N2	5.02	120.72	116.20
1	N	259	G	N3-C4-C5	-5.01	126.09	128.60
1	N	404	G	N3-C2-N2	5.01	123.41	119.90
1	N	824	G	N1-C2-N2	-5.01	111.69	116.20
1	N	1150	A	C4-C5-C6	5.01	119.51	117.00
1	N	779	C	N1-C2-N3	5.01	122.71	119.20
1	N	870	U	C2-N3-C4	-5.01	123.99	127.00
1	N	1418	A	C4-C5-N7	5.01	113.21	110.70
1	N	49	U	N1-C2-N3	-5.01	111.89	114.90
1	N	97	G	P-O5'-C5'	5.01	128.92	120.90
1	N	256	U	N3-C2-O2	5.01	125.71	122.20
1	N	288	A	N3-C4-C5	-5.01	123.29	126.80
1	N	427	U	C2'-C3'-O3'	5.01	121.72	113.70
1	N	430	A	C6-N1-C2	-5.01	115.59	118.60
1	N	637	C	N3-C4-N4	5.01	121.51	118.00
1	N	977	A	C6-C5-N7	-5.01	128.79	132.30
1	N	1145	A	O5'-P-OP2	-5.01	101.19	105.70
1	N	1292	G	C8-N9-C1'	5.01	133.51	127.00
1	N	651	C	N3-C4-C5	-5.01	119.90	121.90
1	N	654	G	N7-C8-N9	-5.01	110.59	113.10
1	N	742	G	OP2-P-O3'	5.01	116.22	105.20
1	N	1140	C	N1-C2-O2	-5.01	115.89	118.90
1	N	22	G	C2-N3-C4	-5.01	109.40	111.90
1	N	65	A	C1'-O4'-C4'	-5.01	105.89	109.90
1	N	949	A	C6-C5-N7	-5.01	128.79	132.30
1	N	1058	G	C2-N3-C4	-5.01	109.40	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	126	G	P-O3'-C3'	5.01	125.71	119.70
1	N	251	G	N9-C1'-C2'	5.01	120.51	114.00
1	N	527	G	C5-C6-N1	-5.01	109.00	111.50
1	N	869	G	C5'-C4'-C3'	-5.01	107.99	116.00
1	N	881	G	C5'-C4'-C3'	5.01	124.01	116.00
1	N	1231	G	O4'-C4'-C3'	-5.01	98.99	104.00
1	N	1339	A	N7-C8-N9	-5.01	111.30	113.80
1	N	1474	U	C4-C5-C6	-5.01	116.70	119.70
1	N	5	U	C6-N1-C1'	-5.00	114.19	121.20
1	N	739	C	C6-N1-C2	-5.00	118.30	120.30
1	N	1500	A	C4-C5-N7	5.00	113.20	110.70
1	N	73	C	C2-N1-C1'	-5.00	113.30	118.80
1	N	700	G	C5-N7-C8	5.00	106.80	104.30
1	N	915	A	C1'-O4'-C4'	-5.00	105.90	109.90
1	N	963	G	C4-C5-C6	5.00	121.80	118.80
1	N	1174	G	C5'-C4'-O4'	5.00	115.10	109.10
1	N	1182	G	C5'-C4'-C3'	-5.00	107.99	116.00
1	N	1384	C	C4-C5-C6	-5.00	114.90	117.40
1	N	1491	G	O4'-C4'-C3'	-5.00	99.00	104.00
1	N	1515	G	C5-C6-O6	-5.00	125.60	128.60
1	N	15	G	OP1-P-OP2	-5.00	112.10	119.60
1	N	563	A	P-O3'-C3'	5.00	125.70	119.70
1	N	1025	U	O4'-C1'-N1	5.00	112.20	108.20
1	N	1149	C	OP1-P-OP2	-5.00	112.10	119.60
1	N	1505	G	N3-C4-C5	5.00	131.10	128.60
1	N	1525	G	N1-C2-N3	-5.00	120.90	123.90

There are no chirality outliers.

All (935) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	N	100	G	Sidechain
1	N	1000	A	Sidechain
1	N	1001	C	Sidechain
1	N	1003	G	Sidechain
1	N	1005	A	Sidechain
1	N	1006	G	Sidechain
1	N	1007	U	Sidechain
1	N	1008	U	Sidechain
1	N	1009	U	Sidechain
1	N	101	A	Sidechain
1	N	1013	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1016	A	Sidechain
1	N	102	G	Sidechain
1	N	1020	G	Sidechain
1	N	1023	U	Sidechain
1	N	1024	G	Sidechain
1	N	1026	G	Sidechain
1	N	1028	C	Sidechain
1	N	103	U	Sidechain
1	N	1032	G	Sidechain
1	N	1033	G	Sidechain
1	N	1034	G	Sidechain
1	N	1038	C	Sidechain
1	N	1039	G	Sidechain
1	N	1041	G	Sidechain
1	N	1043	G	Sidechain
1	N	1044	A	Sidechain
1	N	1047	G	Sidechain
1	N	1048	G	Sidechain
1	N	105	G	Sidechain
1	N	1050	G	Sidechain
1	N	1052	U	Sidechain
1	N	1055	A	Sidechain
1	N	1056	U	Sidechain
1	N	1058	G	Sidechain
1	N	1059	C	Sidechain
1	N	1060	U	Sidechain
1	N	1061	G	Sidechain
1	N	1062	U	Sidechain
1	N	1064	G	Sidechain
1	N	1065	U	Sidechain
1	N	1068	G	Sidechain
1	N	107	G	Sidechain
1	N	1070	U	Sidechain
1	N	1072	G	Sidechain
1	N	1073	U	Sidechain
1	N	1075	U	Sidechain
1	N	1076	U	Sidechain
1	N	1078	U	Sidechain
1	N	1079	G	Sidechain
1	N	1081	A	Sidechain
1	N	1082	A	Sidechain
1	N	1083	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1085	U	Sidechain
1	N	1087	G	Sidechain
1	N	1088	G	Sidechain
1	N	109	A	Sidechain
1	N	1092	A	Sidechain
1	N	1095	U	Sidechain
1	N	1096	C	Sidechain
1	N	1097	C	Sidechain
1	N	1098	C	Sidechain
1	N	11	G	Sidechain
1	N	1100	C	Sidechain
1	N	1101	A	Sidechain
1	N	1102	A	Sidechain
1	N	1104	G	Sidechain
1	N	1105	A	Sidechain
1	N	1108	G	Sidechain
1	N	111	G	Sidechain
1	N	1110	A	Sidechain
1	N	1111	A	Sidechain
1	N	1114	C	Sidechain
1	N	1115	U	Sidechain
1	N	1116	U	Sidechain
1	N	1117	A	Sidechain
1	N	1119	C	Sidechain
1	N	1120	C	Sidechain
1	N	1121	U	Sidechain
1	N	1123	U	Sidechain
1	N	1126	U	Sidechain
1	N	1127	G	Sidechain
1	N	1129	C	Sidechain
1	N	1131	G	Sidechain
1	N	1132	C	Sidechain
1	N	1134	G	Sidechain
1	N	1137	C	Sidechain
1	N	1138	G	Sidechain
1	N	1139	G	Sidechain
1	N	114	U	Sidechain
1	N	1141	C	Sidechain
1	N	1142	G	Sidechain
1	N	1144	G	Sidechain
1	N	1145	A	Sidechain
1	N	1146	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1147	C	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	1153	G	Sidechain
1	N	1154	G	Sidechain
1	N	1156	G	Sidechain
1	N	1157	A	Sidechain
1	N	1158	C	Sidechain
1	N	1159	U	Sidechain
1	N	1160	G	Sidechain
1	N	1161	C	Sidechain
1	N	1166	G	Sidechain
1	N	1169	A	Sidechain
1	N	1170	A	Sidechain
1	N	1171	A	Sidechain
1	N	1172	C	Sidechain
1	N	1173	U	Sidechain
1	N	1177	G	Sidechain
1	N	1178	G	Sidechain
1	N	118	U	Sidechain
1	N	1181	G	Sidechain
1	N	1182	G	Sidechain
1	N	1183	U	Sidechain
1	N	1187	G	Sidechain
1	N	1189	U	Sidechain
1	N	119	A	Sidechain
1	N	1190	G	Sidechain
1	N	1191	A	Sidechain
1	N	1193	G	Sidechain
1	N	1197	A	Sidechain
1	N	1198	G	Sidechain
1	N	1199	U	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

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Mol	Chain	Res	Type	Group
1	N	1206	G	Sidechain
1	N	1207	G	Sidechain
1	N	1209	C	Sidechain
1	N	1210	C	Sidechain
1	N	1211	U	Sidechain
1	N	1212	U	Sidechain
1	N	1214	C	Sidechain
1	N	1215	G	Sidechain
1	N	1216	A	Sidechain
1	N	1218	C	Sidechain
1	N	1219	A	Sidechain
1	N	1223	C	Sidechain
1	N	1225	A	Sidechain
1	N	1226	C	Sidechain
1	N	1227	A	Sidechain
1	N	123	U	Sidechain
1	N	1233	G	Sidechain
1	N	1237	C	Sidechain
1	N	1239	A	Sidechain
1	N	1240	U	Sidechain
1	N	1241	G	Sidechain
1	N	1245	C	Sidechain
1	N	1248	A	Sidechain
1	N	125	U	Sidechain
1	N	1251	A	Sidechain
1	N	1253	G	Sidechain
1	N	1254	A	Sidechain
1	N	1255	G	Sidechain
1	N	1256	A	Sidechain
1	N	1259	C	Sidechain
1	N	126	G	Sidechain
1	N	1260	G	Sidechain
1	N	1261	A	Sidechain
1	N	1262	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	1269	A	Sidechain
1	N	1270	G	Sidechain
1	N	1273	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1274	A	Sidechain
1	N	1275	A	Sidechain
1	N	1276	G	Sidechain
1	N	1278	G	Sidechain
1	N	1279	G	Sidechain
1	N	1281	C	Sidechain
1	N	1283	U	Sidechain
1	N	1285	A	Sidechain
1	N	1287	A	Sidechain
1	N	1288	A	Sidechain
1	N	1289	A	Sidechain
1	N	129	A	Sidechain
1	N	1292	G	Sidechain
1	N	1293	C	Sidechain
1	N	1294	G	Sidechain
1	N	1298	U	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	1309	G	Sidechain
1	N	1310	G	Sidechain
1	N	1313	U	Sidechain
1	N	1314	C	Sidechain
1	N	1315	U	Sidechain
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	1323	G	Sidechain
1	N	1325	C	Sidechain
1	N	1327	C	Sidechain
1	N	1329	A	Sidechain
1	N	1330	U	Sidechain
1	N	1331	G	Sidechain
1	N	1332	A	Sidechain
1	N	1333	A	Sidechain
1	N	1334	G	Sidechain
1	N	1336	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1338	G	Sidechain
1	N	1339	A	Sidechain
1	N	134	G	Sidechain
1	N	1340	A	Sidechain
1	N	1343	G	Sidechain
1	N	1345	U	Sidechain
1	N	1346	A	Sidechain
1	N	1347	G	Sidechain
1	N	1348	U	Sidechain
1	N	1350	A	Sidechain
1	N	1351	U	Sidechain
1	N	1353	G	Sidechain
1	N	1355	G	Sidechain
1	N	1356	G	Sidechain
1	N	1357	A	Sidechain
1	N	1358	U	Sidechain
1	N	1359	C	Sidechain
1	N	136	C	Sidechain
1	N	1361	G	Sidechain
1	N	1362	A	Sidechain
1	N	1364	U	Sidechain
1	N	1365	G	Sidechain
1	N	137	U	Sidechain
1	N	1371	G	Sidechain
1	N	1372	U	Sidechain
1	N	1373	G	Sidechain
1	N	1375	A	Sidechain
1	N	1378	C	Sidechain
1	N	1379	G	Sidechain
1	N	1380	U	Sidechain
1	N	1382	C	Sidechain
1	N	1383	C	Sidechain
1	N	1384	C	Sidechain
1	N	1385	G	Sidechain
1	N	1386	G	Sidechain
1	N	1387	G	Sidechain
1	N	139	A	Sidechain
1	N	1394	A	Sidechain
1	N	1395	C	Sidechain
1	N	1399	C	Sidechain
1	N	14	U	Sidechain
1	N	140	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1401	G	Sidechain
1	N	1404	C	Sidechain
1	N	1405	G	Sidechain
1	N	141	G	Sidechain
1	N	1410	A	Sidechain
1	N	1411	C	Sidechain
1	N	1412	C	Sidechain
1	N	1416	G	Sidechain
1	N	1417	G	Sidechain
1	N	1419	G	Sidechain
1	N	1420	U	Sidechain
1	N	1424	U	Sidechain
1	N	1427	C	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	1438	G	Sidechain
1	N	1439	G	Sidechain
1	N	1442	G	Sidechain
1	N	1445	U	Sidechain
1	N	1446	A	Sidechain
1	N	1447	A	Sidechain
1	N	145	G	Sidechain
1	N	1450	U	Sidechain
1	N	1452	C	Sidechain
1	N	1453	G	Sidechain
1	N	1455	G	Sidechain
1	N	1456	A	Sidechain
1	N	1457	G	Sidechain
1	N	1458	G	Sidechain
1	N	1459	G	Sidechain
1	N	146	G	Sidechain
1	N	1461	G	Sidechain
1	N	1464	U	Sidechain
1	N	1465	A	Sidechain
1	N	1467	C	Sidechain
1	N	1468	A	Sidechain
1	N	1469	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	147	G	Sidechain
1	N	1470	U	Sidechain
1	N	1471	U	Sidechain
1	N	1472	U	Sidechain
1	N	1475	G	Sidechain
1	N	1476	A	Sidechain
1	N	1478	U	Sidechain
1	N	148	G	Sidechain
1	N	1480	A	Sidechain
1	N	1481	U	Sidechain
1	N	1482	G	Sidechain
1	N	1483	A	Sidechain
1	N	1485	U	Sidechain
1	N	1487	G	Sidechain
1	N	1488	G	Sidechain
1	N	149	A	Sidechain
1	N	1490	U	Sidechain
1	N	1491	G	Sidechain
1	N	1492	A	Sidechain
1	N	1494	G	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	1506	U	Sidechain
1	N	1508	A	Sidechain
1	N	1510	C	Sidechain
1	N	1511	G	Sidechain
1	N	1512	U	Sidechain
1	N	1513	A	Sidechain
1	N	1514	G	Sidechain
1	N	1515	G	Sidechain
1	N	1516	G	Sidechain
1	N	1518	A	Sidechain
1	N	1519	A	Sidechain
1	N	152	A	Sidechain
1	N	1521	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1523	G	Sidechain
1	N	1524	C	Sidechain
1	N	1525	G	Sidechain
1	N	1526	G	Sidechain
1	N	1527	U	Sidechain
1	N	1528	U	Sidechain
1	N	153	C	Sidechain
1	N	1530	G	Sidechain
1	N	1533	C	Sidechain
1	N	154	U	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	162	A	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	172	A	Sidechain
1	N	175	C	Sidechain
1	N	176	C	Sidechain
1	N	180	U	Sidechain
1	N	181	A	Sidechain
1	N	183	C	Sidechain
1	N	184	G	Sidechain
1	N	187	G	Sidechain
1	N	191	G	Sidechain
1	N	194	C	Sidechain
1	N	195	A	Sidechain
1	N	197	A	Sidechain
1	N	199	A	Sidechain
1	N	200	G	Sidechain
1	N	202	G	Sidechain
1	N	203	G	Sidechain
1	N	204	G	Sidechain
1	N	206	C	Sidechain
1	N	207	C	Sidechain
1	N	208	U	Sidechain
1	N	21	G	Sidechain

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Mol	Chain	Res	Type	Group
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	219	U	Sidechain
1	N	220	G	Sidechain
1	N	224	U	Sidechain
1	N	230	G	Sidechain
1	N	232	G	Sidechain
1	N	233	C	Sidechain
1	N	234	C	Sidechain
1	N	236	A	Sidechain
1	N	237	G	Sidechain
1	N	24	U	Sidechain
1	N	240	G	Sidechain
1	N	241	G	Sidechain
1	N	242	G	Sidechain
1	N	243	A	Sidechain
1	N	244	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	250	A	Sidechain
1	N	251	G	Sidechain
1	N	252	U	Sidechain
1	N	254	G	Sidechain
1	N	255	G	Sidechain
1	N	256	U	Sidechain
1	N	26	A	Sidechain
1	N	260	G	Sidechain
1	N	261	U	Sidechain
1	N	265	G	Sidechain
1	N	269	C	Sidechain
1	N	271	C	Sidechain
1	N	273	U	Sidechain
1	N	274	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	275	G	Sidechain
1	N	276	G	Sidechain
1	N	278	G	Sidechain
1	N	28	A	Sidechain
1	N	283	U	Sidechain
1	N	285	C	Sidechain
1	N	287	U	Sidechain
1	N	288	A	Sidechain
1	N	289	G	Sidechain
1	N	29	U	Sidechain
1	N	291	U	Sidechain
1	N	292	G	Sidechain
1	N	293	G	Sidechain
1	N	294	U	Sidechain
1	N	296	U	Sidechain
1	N	297	G	Sidechain
1	N	299	G	Sidechain
1	N	300	A	Sidechain
1	N	302	G	Sidechain
1	N	303	A	Sidechain
1	N	307	C	Sidechain
1	N	308	C	Sidechain
1	N	31	G	Sidechain
1	N	310	G	Sidechain
1	N	315	A	Sidechain
1	N	316	C	Sidechain
1	N	318	G	Sidechain
1	N	319	G	Sidechain
1	N	32	A	Sidechain
1	N	322	C	Sidechain
1	N	323	U	Sidechain
1	N	326	G	Sidechain
1	N	327	A	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	338	A	Sidechain
1	N	340	U	Sidechain
1	N	341	C	Sidechain
1	N	342	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	343	U	Sidechain
1	N	346	G	Sidechain
1	N	347	G	Sidechain
1	N	348	G	Sidechain
1	N	349	A	Sidechain
1	N	35	G	Sidechain
1	N	350	G	Sidechain
1	N	352	C	Sidechain
1	N	354	G	Sidechain
1	N	355	C	Sidechain
1	N	356	A	Sidechain
1	N	357	G	Sidechain
1	N	359	G	Sidechain
1	N	36	C	Sidechain
1	N	360	G	Sidechain
1	N	362	G	Sidechain
1	N	364	A	Sidechain
1	N	365	U	Sidechain
1	N	367	U	Sidechain
1	N	369	G	Sidechain
1	N	370	C	Sidechain
1	N	371	A	Sidechain
1	N	373	A	Sidechain
1	N	375	U	Sidechain
1	N	376	G	Sidechain
1	N	378	G	Sidechain
1	N	38	G	Sidechain
1	N	380	G	Sidechain
1	N	381	C	Sidechain
1	N	382	A	Sidechain
1	N	383	A	Sidechain
1	N	384	G	Sidechain
1	N	385	C	Sidechain
1	N	389	A	Sidechain
1	N	39	G	Sidechain
1	N	391	G	Sidechain
1	N	392	C	Sidechain
1	N	394	G	Sidechain
1	N	396	C	Sidechain
1	N	397	A	Sidechain
1	N	399	G	Sidechain
1	N	4	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	40	C	Sidechain
1	N	404	G	Sidechain
1	N	405	U	Sidechain
1	N	407	U	Sidechain
1	N	409	U	Sidechain
1	N	41	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	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	429	U	Sidechain
1	N	43	C	Sidechain
1	N	430	A	Sidechain
1	N	432	A	Sidechain
1	N	433	G	Sidechain
1	N	436	C	Sidechain
1	N	437	U	Sidechain
1	N	439	U	Sidechain
1	N	44	A	Sidechain
1	N	440	C	Sidechain
1	N	444	G	Sidechain
1	N	445	G	Sidechain
1	N	446	G	Sidechain
1	N	447	G	Sidechain
1	N	448	A	Sidechain
1	N	449	G	Sidechain
1	N	45	G	Sidechain
1	N	450	G	Sidechain
1	N	454	G	Sidechain
1	N	455	G	Sidechain
1	N	457	G	Sidechain
1	N	458	U	Sidechain
1	N	461	A	Sidechain
1	N	462	G	Sidechain
1	N	464	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	465	A	Sidechain
1	N	468	A	Sidechain
1	N	469	C	Sidechain
1	N	47	C	Sidechain
1	N	473	U	Sidechain
1	N	474	G	Sidechain
1	N	475	C	Sidechain
1	N	477	C	Sidechain
1	N	479	U	Sidechain
1	N	480	U	Sidechain
1	N	481	G	Sidechain
1	N	482	A	Sidechain
1	N	486	U	Sidechain
1	N	487	A	Sidechain
1	N	488	C	Sidechain
1	N	489	C	Sidechain
1	N	491	G	Sidechain
1	N	494	G	Sidechain
1	N	495	A	Sidechain
1	N	496	A	Sidechain
1	N	497	G	Sidechain
1	N	498	A	Sidechain
1	N	499	A	Sidechain
1	N	5	U	Sidechain
1	N	50	A	Sidechain
1	N	500	G	Sidechain
1	N	503	C	Sidechain
1	N	505	G	Sidechain
1	N	506	G	Sidechain
1	N	508	U	Sidechain
1	N	509	A	Sidechain
1	N	51	A	Sidechain
1	N	511	C	Sidechain
1	N	513	C	Sidechain
1	N	515	G	Sidechain
1	N	516	U	Sidechain
1	N	517	G	Sidechain
1	N	519	C	Sidechain
1	N	52	C	Sidechain
1	N	521	G	Sidechain
1	N	523	A	Sidechain
1	N	524	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	525	C	Sidechain
1	N	526	C	Sidechain
1	N	527	G	Sidechain
1	N	53	A	Sidechain
1	N	530	G	Sidechain
1	N	531	U	Sidechain
1	N	535	A	Sidechain
1	N	536	C	Sidechain
1	N	537	G	Sidechain
1	N	538	G	Sidechain
1	N	54	C	Sidechain
1	N	540	G	Sidechain
1	N	543	U	Sidechain
1	N	544	G	Sidechain
1	N	545	C	Sidechain
1	N	546	A	Sidechain
1	N	547	A	Sidechain
1	N	548	G	Sidechain
1	N	55	A	Sidechain
1	N	550	G	Sidechain
1	N	551	U	Sidechain
1	N	553	A	Sidechain
1	N	554	A	Sidechain
1	N	555	U	Sidechain
1	N	557	G	Sidechain
1	N	558	G	Sidechain
1	N	559	A	Sidechain
1	N	56	U	Sidechain
1	N	562	U	Sidechain
1	N	563	A	Sidechain
1	N	565	U	Sidechain
1	N	566	G	Sidechain
1	N	568	G	Sidechain
1	N	569	C	Sidechain
1	N	570	G	Sidechain
1	N	571	U	Sidechain
1	N	572	A	Sidechain
1	N	573	A	Sidechain
1	N	575	G	Sidechain
1	N	579	A	Sidechain
1	N	581	G	Sidechain
1	N	582	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	583	A	Sidechain
1	N	584	G	Sidechain
1	N	586	C	Sidechain
1	N	587	G	Sidechain
1	N	588	G	Sidechain
1	N	59	A	Sidechain
1	N	590	U	Sidechain
1	N	591	U	Sidechain
1	N	592	G	Sidechain
1	N	594	U	Sidechain
1	N	595	A	Sidechain
1	N	596	A	Sidechain
1	N	598	U	Sidechain
1	N	601	G	Sidechain
1	N	604	G	Sidechain
1	N	605	U	Sidechain
1	N	606	G	Sidechain
1	N	607	A	Sidechain
1	N	608	A	Sidechain
1	N	609	A	Sidechain
1	N	61	G	Sidechain
1	N	610	U	Sidechain
1	N	611	C	Sidechain
1	N	612	C	Sidechain
1	N	613	C	Sidechain
1	N	614	C	Sidechain
1	N	616	G	Sidechain
1	N	619	U	Sidechain
1	N	62	U	Sidechain
1	N	620	C	Sidechain
1	N	622	A	Sidechain
1	N	623	C	Sidechain
1	N	625	U	Sidechain
1	N	626	G	Sidechain
1	N	627	G	Sidechain
1	N	628	G	Sidechain
1	N	63	C	Sidechain
1	N	630	A	Sidechain
1	N	632	U	Sidechain
1	N	636	U	Sidechain
1	N	638	U	Sidechain
1	N	639	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	64	G	Sidechain
1	N	642	A	Sidechain
1	N	643	C	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	65	A	Sidechain
1	N	650	G	Sidechain
1	N	651	C	Sidechain
1	N	652	U	Sidechain
1	N	654	G	Sidechain
1	N	655	A	Sidechain
1	N	656	G	Sidechain
1	N	657	U	Sidechain
1	N	658	C	Sidechain
1	N	659	U	Sidechain
1	N	660	C	Sidechain
1	N	663	A	Sidechain
1	N	665	A	Sidechain
1	N	668	G	Sidechain
1	N	669	G	Sidechain
1	N	670	G	Sidechain
1	N	672	U	Sidechain
1	N	673	A	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	683	G	Sidechain
1	N	684	U	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	693	G	Sidechain
1	N	694	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	697	U	Sidechain
1	N	698	G	Sidechain
1	N	699	C	Sidechain
1	N	700	G	Sidechain
1	N	701	U	Sidechain
1	N	702	A	Sidechain
1	N	703	G	Sidechain
1	N	705	G	Sidechain
1	N	707	U	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	716	A	Sidechain
1	N	717	U	Sidechain
1	N	720	C	Sidechain
1	N	721	G	Sidechain
1	N	722	G	Sidechain
1	N	723	U	Sidechain
1	N	724	G	Sidechain
1	N	725	G	Sidechain
1	N	726	C	Sidechain
1	N	727	G	Sidechain
1	N	728	A	Sidechain
1	N	73	C	Sidechain
1	N	730	G	Sidechain
1	N	732	C	Sidechain
1	N	733	G	Sidechain
1	N	735	C	Sidechain
1	N	736	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	748	G	Sidechain
1	N	749	A	Sidechain
1	N	750	C	Sidechain
1	N	751	U	Sidechain
1	N	752	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	753	A	Sidechain
1	N	754	C	Sidechain
1	N	756	C	Sidechain
1	N	757	U	Sidechain
1	N	758	C	Sidechain
1	N	760	G	Sidechain
1	N	761	G	Sidechain
1	N	762	U	Sidechain
1	N	763	G	Sidechain
1	N	766	A	Sidechain
1	N	767	A	Sidechain
1	N	769	G	Sidechain
1	N	771	G	Sidechain
1	N	772	U	Sidechain
1	N	773	G	Sidechain
1	N	774	G	Sidechain
1	N	775	G	Sidechain
1	N	776	G	Sidechain
1	N	777	A	Sidechain
1	N	779	C	Sidechain
1	N	78	A	Sidechain
1	N	780	A	Sidechain
1	N	781	A	Sidechain
1	N	782	A	Sidechain
1	N	783	C	Sidechain
1	N	784	A	Sidechain
1	N	786	G	Sidechain
1	N	788	U	Sidechain
1	N	79	G	Sidechain
1	N	791	G	Sidechain
1	N	793	U	Sidechain
1	N	795	C	Sidechain
1	N	796	C	Sidechain
1	N	798	U	Sidechain
1	N	8	A	Sidechain
1	N	80	A	Sidechain
1	N	800	G	Sidechain
1	N	801	U	Sidechain
1	N	803	G	Sidechain
1	N	804	U	Sidechain
1	N	805	C	Sidechain
1	N	806	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	808	C	Sidechain
1	N	809	G	Sidechain
1	N	81	A	Sidechain
1	N	811	C	Sidechain
1	N	812	G	Sidechain
1	N	814	A	Sidechain
1	N	816	A	Sidechain
1	N	817	C	Sidechain
1	N	819	A	Sidechain
1	N	82	G	Sidechain
1	N	821	G	Sidechain
1	N	824	G	Sidechain
1	N	829	G	Sidechain
1	N	83	C	Sidechain
1	N	830	G	Sidechain
1	N	831	A	Sidechain
1	N	832	G	Sidechain
1	N	834	U	Sidechain
1	N	835	U	Sidechain
1	N	836	G	Sidechain
1	N	837	U	Sidechain
1	N	838	G	Sidechain
1	N	84	U	Sidechain
1	N	840	C	Sidechain
1	N	842	U	Sidechain
1	N	843	U	Sidechain
1	N	847	G	Sidechain
1	N	848	C	Sidechain
1	N	851	G	Sidechain
1	N	855	U	Sidechain
1	N	857	C	Sidechain
1	N	858	G	Sidechain
1	N	859	G	Sidechain
1	N	860	A	Sidechain
1	N	861	G	Sidechain
1	N	862	C	Sidechain
1	N	864	A	Sidechain
1	N	865	A	Sidechain
1	N	866	C	Sidechain
1	N	868	C	Sidechain
1	N	869	G	Sidechain
1	N	87	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	870	U	Sidechain
1	N	871	U	Sidechain
1	N	872	A	Sidechain
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	88	U	Sidechain
1	N	881	G	Sidechain
1	N	883	C	Sidechain
1	N	886	G	Sidechain
1	N	887	G	Sidechain
1	N	891	U	Sidechain
1	N	892	A	Sidechain
1	N	894	G	Sidechain
1	N	895	G	Sidechain
1	N	896	C	Sidechain
1	N	898	G	Sidechain
1	N	899	C	Sidechain
1	N	9	G	Sidechain
1	N	90	C	Sidechain
1	N	901	A	Sidechain
1	N	903	G	Sidechain
1	N	904	U	Sidechain
1	N	905	U	Sidechain
1	N	906	A	Sidechain
1	N	907	A	Sidechain
1	N	91	U	Sidechain
1	N	910	C	Sidechain
1	N	914	A	Sidechain
1	N	918	A	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	925	G	Sidechain
1	N	927	G	Sidechain
1	N	929	G	Sidechain
1	N	930	C	Sidechain
1	N	932	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	933	G	Sidechain
1	N	934	C	Sidechain
1	N	939	G	Sidechain
1	N	94	G	Sidechain
1	N	941	G	Sidechain
1	N	942	G	Sidechain
1	N	944	G	Sidechain
1	N	946	A	Sidechain
1	N	947	G	Sidechain
1	N	950	U	Sidechain
1	N	951	G	Sidechain
1	N	953	G	Sidechain
1	N	955	U	Sidechain
1	N	957	U	Sidechain
1	N	959	A	Sidechain
1	N	960	U	Sidechain
1	N	962	C	Sidechain
1	N	963	G	Sidechain
1	N	964	A	Sidechain
1	N	965	U	Sidechain
1	N	968	A	Sidechain
1	N	969	A	Sidechain
1	N	97	G	Sidechain
1	N	970	C	Sidechain
1	N	972	C	Sidechain
1	N	973	G	Sidechain
1	N	974	A	Sidechain
1	N	975	A	Sidechain
1	N	977	A	Sidechain
1	N	978	A	Sidechain
1	N	98	A	Sidechain
1	N	982	U	Sidechain
1	N	985	C	Sidechain
1	N	986	U	Sidechain
1	N	987	G	Sidechain
1	N	99	C	Sidechain
1	N	990	C	Sidechain
1	N	991	U	Sidechain
1	N	992	U	Sidechain
1	N	993	G	Sidechain
1	N	995	C	Sidechain
1	N	997	U	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	16532	493	0
All	All	32892	16554	16532	493	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 (493) 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:1123:U:H3	1:N:1150:A:H61	1.28	0.81
1:N:688:G:C8	1:N:688:G:H5''	2.18	0.78
1:N:1255:G:H2'	1:N:1279:G:H1	1.54	0.72
1:N:1240:U:C6	1:N:1241:G:H5'	2.24	0.71
1:N:50:A:H1'	1:N:52:C:C6	2.27	0.69
1:N:998:C:H42	1:N:1042:A:H61	1.39	0.69
1:N:1315:U:C4	1:N:1316:G:C6	2.81	0.69
1:N:840:C:H1'	1:N:843:U:H3	1.56	0.68
1:N:173:U:H3	1:N:198:G:H21	1.44	0.66
1:N:651:C:C4	1:N:652:U:C4	2.85	0.65
1:N:411:A:H61	1:N:428:G:H1'	1.61	0.65
1:N:632:U:C5	1:N:633:G:C5	2.84	0.65
1:N:664:G:H22	1:N:741:G:H1	1.45	0.64
1:N:596:A:H61	1:N:644:U:H3	1.46	0.63
1:N:1001:C:H42	1:N:1038:C:H42	1.44	0.63
1:N:145:G:C2	1:N:178:C:C2	2.87	0.63
1:N:718:A:H3'	1:N:719:C:C6	2.33	0.63
1:N:584:G:C6	1:N:585:G:C6	2.87	0.62
1:N:116:A:H61	1:N:313:A:H1'	1.64	0.62
1:N:150:U:C5	1:N:170:U:C5	2.86	0.62
1:N:1394:A:H3'	1:N:1395:C:H5'	1.81	0.62
1:N:594:U:C4	1:N:595:A:C6	2.88	0.61
1:N:978:A:C8	1:N:979:C:C5	2.88	0.61
1:N:243:A:H4'	1:N:244:U:H5''	1.83	0.61
1:N:296:U:H2'	1:N:297:G:C8	2.36	0.61
1:N:1261:A:C2	1:N:1274:A:C2	2.89	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:21:G:H1'	1:N:914:A:H61	1.66	0.60
1:N:1511:G:C6	1:N:1525:G:C6	2.90	0.60
1:N:169:C:C4	1:N:170:U:C4	2.89	0.60
1:N:859:G:C6	1:N:860:A:C6	2.90	0.59
1:N:1240:U:C2	1:N:1240:U:OP1	2.56	0.59
1:N:260:G:H2'	1:N:261:U:C6	2.37	0.59
1:N:160:A:C2	1:N:346:G:N1	2.70	0.58
1:N:1244:G:C6	1:N:1294:G:C6	2.90	0.58
1:N:160:A:H2'	1:N:161:A:C8	2.38	0.58
1:N:153:C:C5	1:N:154:U:C5	2.91	0.58
1:N:39:G:H1'	1:N:497:G:H21	1.68	0.58
1:N:858:G:H1	1:N:869:G:H2'	1.69	0.58
1:N:198:G:H2'	1:N:199:A:C8	2.39	0.57
1:N:297:G:C2	1:N:301:G:C6	2.92	0.57
1:N:955:U:H3	1:N:1225:A:H2	1.53	0.57
1:N:675:A:N1	1:N:716:A:C2	2.73	0.57
1:N:68:G:C5	1:N:69:G:H1'	2.40	0.57
1:N:209:U:C4	1:N:211:G:N1	2.72	0.57
1:N:301:G:C6	1:N:302:G:C5	2.92	0.57
1:N:67:C:H2'	1:N:68:G:C8	2.40	0.57
1:N:932:C:H2'	1:N:933:G:C8	2.39	0.56
1:N:943:U:C2	1:N:944:G:C8	2.92	0.56
1:N:262:A:C2	1:N:263:A:C5	2.93	0.56
1:N:410:G:H2'	1:N:429:U:C5	2.41	0.56
1:N:486:U:C6	1:N:486:U:H5''	2.40	0.56
1:N:668:G:C6	1:N:669:G:C6	2.93	0.56
1:N:780:A:C2	1:N:801:U:C5	2.94	0.56
1:N:1355:G:C4	1:N:1368:A:C2	2.94	0.56
1:N:203:G:H22	1:N:206:C:H41	1.54	0.56
1:N:410:G:H2'	1:N:429:U:C4	2.41	0.56
1:N:1176:A:C6	1:N:1177:G:C6	2.93	0.55
1:N:1319:A:H4'	1:N:1320:C:OP1	2.06	0.55
1:N:1010:U:H3	1:N:1019:A:H61	1.54	0.55
1:N:803:G:C5	1:N:804:U:C5	2.94	0.55
1:N:579:A:C2	1:N:763:G:C4	2.95	0.55
1:N:1343:G:C5	1:N:1344:C:C4	2.95	0.55
1:N:80:A:C4	1:N:81:A:H1'	2.41	0.55
1:N:272:C:C4	1:N:273:U:C4	2.95	0.55
1:N:1254:A:C2	1:N:1255:G:C4	2.95	0.55
1:N:1255:G:H3'	1:N:1279:G:H22	1.72	0.55
1:N:1457:G:H2'	1:N:1458:G:C8	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1343:G:C6	1:N:1344:C:C4	2.95	0.55
1:N:676:A:H2'	1:N:677:U:C6	2.42	0.54
1:N:830:G:N1	1:N:857:C:C2	2.76	0.54
1:N:1135:U:H3	1:N:1138:G:H22	1.55	0.54
1:N:1385:G:C6	1:N:1386:G:C6	2.95	0.54
1:N:79:G:H2'	1:N:80:A:C8	2.43	0.54
1:N:1068:G:C6	1:N:1108:G:C6	2.96	0.54
1:N:1083:U:C5	1:N:1084:G:C6	2.96	0.54
1:N:17:U:H2'	1:N:18:C:C6	2.43	0.54
1:N:857:C:C5	1:N:858:G:C8	2.96	0.54
1:N:120:A:C2	1:N:122:G:C6	2.95	0.54
1:N:604:G:C6	1:N:605:U:N3	2.75	0.53
1:N:978:A:C4	1:N:1319:A:C2	2.96	0.53
1:N:102:G:C5	1:N:103:U:C5	2.97	0.53
1:N:482:A:C6	1:N:483:C:C2	2.97	0.53
1:N:1216:A:H2'	1:N:1217:C:C6	2.44	0.53
1:N:424:G:C6	1:N:425:G:C6	2.96	0.53
1:N:654:G:C6	1:N:753:A:C8	2.97	0.53
1:N:1149:C:H2'	1:N:1150:A:C8	2.44	0.53
1:N:1383:C:C4	1:N:1384:C:C4	2.97	0.53
1:N:828:U:H5'	1:N:870:U:O4	2.09	0.53
1:N:1025:U:H2'	1:N:1031:C:C5	2.44	0.53
1:N:1244:G:C6	1:N:1245:C:C4	2.97	0.53
1:N:928:G:H21	1:N:1533:C:N4	2.07	0.53
1:N:895:G:H22	1:N:905:U:H1'	1.74	0.53
1:N:909:A:C2	1:N:1487:G:N2	2.77	0.53
1:N:962:C:H42	1:N:973:G:H1	1.56	0.53
1:N:923:A:H2'	1:N:924:C:C6	2.44	0.52
1:N:211:G:N2	1:N:213:G:C8	2.77	0.52
1:N:332:G:C5	1:N:333:U:C5	2.96	0.52
1:N:39:G:C4	1:N:498:A:C2	2.97	0.52
1:N:1266:G:H21	1:N:1269:A:H8	1.55	0.52
1:N:80:A:C5	1:N:81:A:H1'	2.45	0.52
1:N:240:G:C6	1:N:241:G:C5	2.98	0.52
1:N:595:A:H4'	1:N:596:A:H5'	1.90	0.52
1:N:596:A:N6	1:N:644:U:H3	2.07	0.52
1:N:840:C:C1'	1:N:843:U:H3	2.23	0.52
1:N:896:C:H2'	1:N:897:C:C6	2.45	0.52
1:N:1249:C:H3'	1:N:1250:A:H5''	1.92	0.52
1:N:122:G:C6	1:N:123:U:C4	2.98	0.52
1:N:603:U:H2'	1:N:604:G:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:803:G:C6	1:N:804:U:C4	2.97	0.52
1:N:458:U:H2'	1:N:459:A:C8	2.45	0.52
1:N:1043:G:H2'	1:N:1044:A:C8	2.45	0.52
1:N:197:A:C2	1:N:198:G:C4	2.98	0.51
1:N:286:C:C2	1:N:287:U:C6	2.97	0.51
1:N:301:G:C6	1:N:302:G:C6	2.97	0.51
1:N:1210:C:C5	1:N:1211:U:C5	2.98	0.51
1:N:273:U:C4	1:N:274:A:C6	2.98	0.51
1:N:770:C:H2'	1:N:771:G:C8	2.45	0.51
1:N:91:U:C5	1:N:92:U:C2	2.98	0.51
1:N:32:A:H4'	1:N:48:C:H42	1.76	0.51
1:N:50:A:C2	1:N:52:C:N3	2.79	0.51
1:N:118:U:H2'	1:N:121:U:C6	2.46	0.51
1:N:1041:G:C6	1:N:1042:A:C6	2.99	0.51
1:N:61:G:H21	1:N:379:C:H4'	1.76	0.51
1:N:1023:U:H2'	1:N:1024:G:C8	2.46	0.51
1:N:1127:G:H22	1:N:1145:A:H2	1.58	0.51
1:N:1523:G:C6	1:N:1524:C:C4	2.99	0.51
1:N:68:G:C4	1:N:69:G:H1'	2.46	0.51
1:N:171:A:H2'	1:N:172:A:C8	2.46	0.51
1:N:832:G:C5	1:N:855:U:N3	2.79	0.51
1:N:1144:G:H21	1:N:1146:A:H62	1.57	0.51
1:N:1011:C:C2	1:N:1019:A:C2	2.99	0.50
1:N:1198:G:C6	1:N:1199:U:N3	2.79	0.50
1:N:107:G:H5''	1:N:134:G:H21	1.77	0.50
1:N:669:G:C6	1:N:670:G:C6	2.99	0.50
1:N:218:U:C5	1:N:219:U:C4	3.00	0.50
1:N:598:U:H3	1:N:640:A:H61	1.60	0.50
1:N:141:G:H22	1:N:195:A:H2	1.59	0.50
1:N:1163:A:H61	1:N:1173:U:H3	1.59	0.50
1:N:896:C:H2'	1:N:897:C:H6	1.76	0.50
1:N:171:A:C5	1:N:172:A:C6	3.00	0.50
1:N:496:A:C2	1:N:497:G:C5	2.99	0.49
1:N:1316:G:C2	1:N:1319:A:C8	3.00	0.49
1:N:1513:A:C2	1:N:1514:G:C4	3.00	0.49
1:N:507:C:H3'	1:N:508:U:H5''	1.93	0.49
1:N:1004:A:H5''	1:N:1024:G:H22	1.77	0.49
1:N:525:C:C4	1:N:526:C:C4	3.00	0.49
1:N:635:A:C2	1:N:636:U:C2	3.00	0.49
1:N:1074:G:C5	1:N:1075:U:C4	3.00	0.49
1:N:78:A:C5	1:N:79:G:C6	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:275:G:C8	1:N:275:G:H5''	2.48	0.49
1:N:1129:C:C2	1:N:1144:G:C2	3.01	0.49
1:N:1172:C:H2'	1:N:1173:U:C6	2.48	0.49
1:N:502:A:H61	1:N:543:U:H3	1.61	0.49
1:N:917:G:C6	1:N:918:A:C6	2.99	0.49
1:N:998:C:H42	1:N:1042:A:N6	2.10	0.49
1:N:803:G:C4	1:N:804:U:C6	3.01	0.49
1:N:904:U:H2'	1:N:905:U:O4'	2.12	0.49
1:N:1484:C:H2'	1:N:1485:U:C6	2.48	0.49
1:N:687:A:C2	1:N:704:A:C6	3.00	0.49
1:N:770:C:H2'	1:N:771:G:H8	1.78	0.49
1:N:338:A:H61	1:N:351:G:H1	1.60	0.48
1:N:632:U:C5	1:N:633:G:C4	3.00	0.48
1:N:947:G:H1'	1:N:1332:A:H62	1.77	0.48
1:N:1262:C:H2'	1:N:1263:C:H5'	1.93	0.48
1:N:39:G:C2	1:N:498:A:C2	3.01	0.48
1:N:811:C:H2'	1:N:812:G:H5'	1.95	0.48
1:N:886:G:C6	1:N:887:G:C5	3.00	0.48
1:N:1198:G:C5	1:N:1199:U:C4	3.00	0.48
1:N:460:A:C2	1:N:462:G:C8	3.01	0.48
1:N:78:A:C6	1:N:79:G:C6	3.01	0.48
1:N:335:C:C2	1:N:336:A:C8	3.02	0.48
1:N:109:A:C6	1:N:327:A:C6	3.01	0.48
1:N:465:A:C6	1:N:466:A:C6	3.00	0.48
1:N:1213:A:H2'	1:N:1215:G:C8	2.48	0.48
1:N:1255:G:C6	1:N:1279:G:C5	3.01	0.48
1:N:78:A:C2	1:N:79:G:C2	3.01	0.48
1:N:1432:G:H22	1:N:1467:C:H2'	1.78	0.48
1:N:749:A:C5	1:N:750:C:C4	3.02	0.48
1:N:803:G:C2	1:N:804:U:C2	3.02	0.48
1:N:1072:G:C2	1:N:1073:U:C2	3.01	0.48
1:N:1349:A:H1'	1:N:1374:A:C6	2.49	0.48
1:N:578:C:C2	1:N:579:A:C8	3.02	0.48
1:N:922:G:H2'	1:N:923:A:C8	2.49	0.48
1:N:962:C:N4	1:N:973:G:H1	2.12	0.48
1:N:1256:A:C2	1:N:1258:G:C6	3.02	0.48
1:N:65:A:H4'	1:N:66:A:H5'	1.96	0.47
1:N:197:A:H2	1:N:198:G:C4	2.31	0.47
1:N:39:G:C4	1:N:498:A:N3	2.82	0.47
1:N:363:A:C6	1:N:364:A:C6	3.02	0.47
1:N:1218:C:H2'	1:N:1219:A:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1365:G:C6	1:N:1366:C:C4	3.02	0.47
1:N:99:C:HO2'	1:N:100:G:H8	1.62	0.47
1:N:500:G:C6	1:N:501:C:C4	3.02	0.47
1:N:738:C:C4	1:N:739:C:C4	3.03	0.47
1:N:1097:C:H2'	1:N:1098:C:C6	2.50	0.47
1:N:1239:A:C2	1:N:1241:G:C6	3.02	0.47
1:N:354:G:C6	1:N:355:C:C4	3.03	0.47
1:N:665:A:C8	1:N:733:G:C2	3.02	0.47
1:N:817:C:H42	1:N:1529:G:H1	1.62	0.47
1:N:394:G:C5	1:N:395:C:C5	3.03	0.47
1:N:411:A:OP2	1:N:429:U:H5	1.97	0.47
1:N:620:C:H3'	1:N:621:A:C8	2.48	0.47
1:N:895:G:N2	1:N:905:U:H1'	2.29	0.47
1:N:1349:A:N1	1:N:1374:A:H1'	2.29	0.47
1:N:322:C:C5	1:N:323:U:O4	2.68	0.47
1:N:322:C:N4	1:N:327:A:C8	2.83	0.47
1:N:363:A:H2'	1:N:364:A:C8	2.50	0.47
1:N:678:U:H2'	1:N:679:C:C6	2.50	0.47
1:N:1225:A:H2'	1:N:1226:C:C6	2.50	0.47
1:N:64:G:C5	1:N:99:C:C2	3.03	0.47
1:N:69:G:H2'	1:N:70:U:C6	2.49	0.47
1:N:119:A:C8	1:N:240:G:O6	2.68	0.47
1:N:687:A:N1	1:N:704:A:C5	2.83	0.47
1:N:993:G:H2'	1:N:995:C:H41	1.79	0.47
1:N:1142:G:C2	1:N:1143:G:H1'	2.50	0.47
1:N:1148:U:N3	1:N:1149:C:C2	2.83	0.47
1:N:339:C:H42	1:N:349:A:H61	1.63	0.47
1:N:441:A:H61	1:N:493:A:N6	2.12	0.47
1:N:668:G:N2	1:N:739:C:H1'	2.30	0.47
1:N:60:A:H5'	1:N:387:U:H4'	1.96	0.47
1:N:92:U:C4	1:N:93:U:C4	3.03	0.46
1:N:1415:G:C2	1:N:1416:G:C5	3.02	0.46
1:N:1433:A:H1'	1:N:1468:A:C2	2.50	0.46
1:N:537:G:C6	1:N:538:G:C6	3.03	0.46
1:N:611:C:C5	1:N:612:C:C4	3.03	0.46
1:N:857:C:C4	1:N:858:G:C8	3.04	0.46
1:N:904:U:C4	1:N:905:U:C4	3.02	0.46
1:N:933:G:C2	1:N:1385:G:C2	3.03	0.46
1:N:1002:G:OP2	1:N:1032:G:H1'	2.15	0.46
1:N:94:G:H4'	1:N:95:C:H5''	1.97	0.46
1:N:102:G:C6	1:N:103:U:C4	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:124:C:C2	1:N:238:A:C2	3.03	0.46
1:N:1006:G:C6	1:N:1024:G:C2	3.04	0.46
1:N:1468:A:H2'	1:N:1469:C:H5'	1.97	0.46
1:N:243:A:C2	1:N:282:A:N6	2.83	0.46
1:N:980:C:C6	1:N:981:U:C5	3.04	0.46
1:N:267:C:H2'	1:N:268:U:C6	2.50	0.46
1:N:372:C:H4'	1:N:373:A:OP1	2.15	0.46
1:N:459:A:C4	1:N:460:A:C8	3.04	0.46
1:N:807:A:H2'	1:N:808:C:O4'	2.15	0.46
1:N:70:U:C5	1:N:94:G:H2'	2.51	0.46
1:N:203:G:H1'	1:N:465:A:H61	1.80	0.46
1:N:544:G:C6	1:N:545:C:C4	3.03	0.46
1:N:688:G:H5''	1:N:688:G:H8	1.72	0.46
1:N:1399:C:C2	1:N:1502:A:C2	3.03	0.46
1:N:77:A:C5	1:N:78:A:N6	2.83	0.46
1:N:373:A:C2	1:N:374:A:C4	3.04	0.46
1:N:503:C:O2	1:N:510:A:C2	2.69	0.46
1:N:134:G:C5	1:N:325:A:N6	2.84	0.46
1:N:179:A:C5	1:N:180:U:C4	3.04	0.46
1:N:589:U:H2'	1:N:590:U:H6	1.81	0.46
1:N:815:A:H4'	1:N:817:C:C5	2.51	0.46
1:N:917:G:H2'	1:N:918:A:C8	2.51	0.46
1:N:457:G:C2	1:N:476:U:H1'	2.51	0.46
1:N:204:G:H3'	1:N:204:G:C8	2.50	0.45
1:N:425:G:C5	1:N:426:U:C4	3.05	0.45
1:N:756:C:C4	1:N:757:U:C4	3.04	0.45
1:N:1009:U:C2	1:N:1021:A:C2	3.05	0.45
1:N:1366:C:C4	1:N:1367:C:C4	3.04	0.45
1:N:141:G:C6	1:N:223:A:C6	3.04	0.45
1:N:253:A:H61	1:N:273:U:H3	1.64	0.45
1:N:282:A:C5	1:N:283:U:C4	3.05	0.45
1:N:402:G:H1'	1:N:620:C:H42	1.80	0.45
1:N:242:G:C2	1:N:285:C:C2	3.05	0.45
1:N:295:C:C4	1:N:296:U:C4	3.04	0.45
1:N:516:U:C4	1:N:517:G:C8	3.05	0.45
1:N:761:G:C5	1:N:762:U:C4	3.03	0.45
1:N:991:U:HO2'	1:N:993:G:H8	1.59	0.45
1:N:94:G:N3	1:N:96:U:C4	2.84	0.45
1:N:283:U:H2'	1:N:284:C:H5'	1.98	0.45
1:N:830:G:C6	1:N:831:A:C6	3.05	0.45
1:N:1177:G:C5	1:N:1178:G:C5	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:516:U:O2	1:N:520:A:C2	2.69	0.45
1:N:694:A:C6	1:N:695:A:C4	3.04	0.45
1:N:1160:G:O6	1:N:1181:G:C6	2.70	0.45
1:N:1441:A:H62	1:N:1461:G:N2	2.14	0.45
1:N:736:C:H2'	1:N:737:C:C6	2.51	0.45
1:N:1010:U:H3	1:N:1019:A:N6	2.14	0.45
1:N:316:C:O2	1:N:338:A:C2	2.69	0.45
1:N:386:C:H2'	1:N:387:U:C6	2.52	0.45
1:N:857:C:C6	1:N:858:G:C8	3.05	0.45
1:N:1406:U:C5	1:N:1407:C:C5	3.05	0.45
1:N:852:G:C6	1:N:853:C:C4	3.04	0.45
1:N:893:C:H2'	1:N:894:G:C5'	2.47	0.45
1:N:1218:C:H2'	1:N:1219:A:H8	1.81	0.45
1:N:1239:A:H4'	1:N:1240:U:OP1	2.17	0.45
1:N:49:U:C2	1:N:362:G:H1'	2.52	0.45
1:N:941:G:C6	1:N:1343:G:C6	3.05	0.45
1:N:323:U:H2'	1:N:324:G:O4'	2.17	0.44
1:N:349:A:C6	1:N:350:G:C6	3.04	0.44
1:N:208:U:C2	1:N:209:U:C5	3.05	0.44
1:N:575:G:C5	1:N:821:G:C8	3.05	0.44
1:N:1495:U:H2'	1:N:1496:C:C6	2.52	0.44
1:N:131:A:H2	1:N:231:U:H3	1.65	0.44
1:N:379:C:H2'	1:N:380:G:C8	2.52	0.44
1:N:655:A:C2	1:N:656:G:C4	3.05	0.44
1:N:928:G:H21	1:N:1533:C:H42	1.64	0.44
1:N:1219:A:C6	1:N:1220:G:C6	3.05	0.44
1:N:1011:C:C2	1:N:1019:A:N1	2.86	0.44
1:N:1068:G:O6	1:N:1108:G:C6	2.70	0.44
1:N:339:C:C4	1:N:340:U:C4	3.05	0.44
1:N:632:U:H5	1:N:633:G:C5	2.34	0.44
1:N:1140:C:HO2'	1:N:1141:C:H5	1.63	0.44
1:N:424:G:H2'	1:N:425:G:C8	2.52	0.44
1:N:1415:G:N1	1:N:1416:G:C6	2.86	0.44
1:N:406:G:C5	1:N:495:A:C8	3.06	0.44
1:N:925:G:C6	1:N:927:G:C6	3.06	0.44
1:N:981:U:C2	1:N:982:U:C5	3.06	0.44
1:N:408:A:H2'	1:N:408:A:N3	2.33	0.44
1:N:858:G:H1	1:N:869:G:C2'	2.31	0.44
1:N:1350:A:N1	1:N:1373:G:C2	2.85	0.44
1:N:213:G:C8	1:N:214:C:C6	3.06	0.44
1:N:804:U:H5	1:N:805:C:C4	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:807:A:C6	1:N:808:C:N3	2.86	0.44
1:N:824:G:N1	1:N:877:G:C6	2.86	0.44
1:N:1002:G:C6	1:N:1003:G:N7	2.86	0.44
1:N:51:A:N6	1:N:313:A:H2	2.16	0.43
1:N:934:C:C2	1:N:1344:C:C4	3.06	0.43
1:N:1303:C:C5	1:N:1304:G:C5	3.06	0.43
1:N:1438:G:C6	1:N:1464:U:N3	2.86	0.43
1:N:168:G:N1	1:N:169:C:C4	2.86	0.43
1:N:737:C:N3	1:N:738:C:C4	2.87	0.43
1:N:961:U:H2'	1:N:962:C:C6	2.54	0.43
1:N:985:C:C4	1:N:986:U:C4	3.06	0.43
1:N:1304:G:C6	1:N:1305:G:N1	2.86	0.43
1:N:474:G:C6	1:N:475:C:N3	2.86	0.43
1:N:981:U:C2	1:N:982:U:C6	3.05	0.43
1:N:1102:A:C2	1:N:1103:C:C2	3.07	0.43
1:N:1249:C:H3'	1:N:1250:A:C5'	2.49	0.43
1:N:1258:G:H2'	1:N:1259:C:C6	2.53	0.43
1:N:1350:A:C6	1:N:1373:G:C2	3.06	0.43
1:N:688:G:C5	1:N:700:G:C2	3.06	0.43
1:N:794:A:H2'	1:N:795:C:H5'	2.00	0.43
1:N:845:A:H5''	1:N:846:G:C8	2.53	0.43
1:N:1225:A:H2'	1:N:1226:C:C5	2.53	0.43
1:N:323:U:C4	1:N:324:G:C5	3.07	0.43
1:N:893:C:H2'	1:N:894:G:H5'	2.01	0.43
1:N:1088:G:C6	1:N:1089:G:C5	3.06	0.43
1:N:1296:C:H3'	1:N:1297:G:C8	2.54	0.43
1:N:1433:A:C8	1:N:1468:A:C6	3.07	0.43
1:N:122:G:C5	1:N:123:U:C5	3.07	0.43
1:N:391:G:H21	1:N:482:A:H2	1.64	0.43
1:N:585:G:C2	1:N:586:C:C2	3.07	0.43
1:N:780:A:C2	1:N:803:G:N1	2.87	0.43
1:N:946:A:H2'	1:N:947:G:C8	2.54	0.43
1:N:1074:G:C6	1:N:1075:U:N3	2.87	0.43
1:N:65:A:C4	1:N:200:G:H1'	2.54	0.43
1:N:595:A:C2	1:N:596:A:N6	2.86	0.43
1:N:713:G:C5	1:N:714:G:C6	3.07	0.43
1:N:25:C:H41	1:N:559:A:H61	1.65	0.43
1:N:146:G:C2	1:N:147:G:C8	3.07	0.43
1:N:807:A:C6	1:N:808:C:C4	3.07	0.43
1:N:59:A:H1'	1:N:354:G:C2	2.54	0.43
1:N:152:A:C6	1:N:153:C:H1'	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:215:C:C5	1:N:216:U:C4	3.06	0.43
1:N:414:A:H8	1:N:428:G:H22	1.67	0.43
1:N:728:A:C2	1:N:763:G:N2	2.87	0.43
1:N:829:G:C5	1:N:830:G:C8	3.07	0.43
1:N:373:A:H4'	1:N:480:U:H4'	2.00	0.42
1:N:925:G:C5	1:N:1392:G:C6	3.07	0.42
1:N:1108:G:H2'	1:N:1109:C:H6	1.84	0.42
1:N:228:A:H2'	1:N:229:U:O4'	2.19	0.42
1:N:292:G:C5	1:N:293:G:H1'	2.55	0.42
1:N:1207:G:C6	1:N:1208:C:C4	3.07	0.42
1:N:1439:G:C5	1:N:1440:U:C6	3.07	0.42
1:N:51:A:H61	1:N:313:A:H2	1.66	0.42
1:N:130:A:N1	1:N:233:C:O2	2.52	0.42
1:N:1352:C:C2	1:N:1353:G:C8	3.07	0.42
1:N:1484:C:C4	1:N:1485:U:N3	2.88	0.42
1:N:17:U:H2'	1:N:18:C:C5	2.55	0.42
1:N:92:U:H2'	1:N:93:U:C6	2.54	0.42
1:N:771:G:C6	1:N:772:U:N3	2.87	0.42
1:N:787:A:H2'	1:N:795:C:H42	1.84	0.42
1:N:1261:A:H61	1:N:1274:A:H2'	1.84	0.42
1:N:55:A:C4	1:N:56:U:C6	3.08	0.42
1:N:64:G:H2'	1:N:99:C:H41	1.85	0.42
1:N:325:A:N7	1:N:326:G:C5	2.87	0.42
1:N:411:A:OP2	1:N:429:U:C5	2.73	0.42
1:N:496:A:N1	1:N:497:G:C6	2.87	0.42
1:N:632:U:H5	1:N:633:G:C6	2.37	0.42
1:N:1345:U:C2	1:N:1375:A:N1	2.87	0.42
1:N:1360:A:C2	1:N:1361:G:C4	3.07	0.42
1:N:61:G:N2	1:N:105:G:N2	2.67	0.42
1:N:300:A:C5	1:N:301:G:H1'	2.54	0.42
1:N:786:G:C2	1:N:797:C:C2	3.07	0.42
1:N:1037:C:H2'	1:N:1038:C:C6	2.55	0.42
1:N:1042:A:C2	1:N:1043:G:N1	2.88	0.42
1:N:1268:G:H21	1:N:1312:G:H21	1.68	0.42
1:N:216:U:H2'	1:N:217:C:C6	2.55	0.42
1:N:474:G:C5	1:N:475:C:C4	3.08	0.42
1:N:1433:A:C6	1:N:1434:A:C6	3.08	0.42
1:N:1501:C:H3'	1:N:1504:G:N7	2.34	0.42
1:N:69:G:C4	1:N:70:U:C5	3.07	0.42
1:N:81:A:OP2	1:N:83:C:C5	2.72	0.42
1:N:357:G:C5	1:N:358:U:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:502:A:N6	1:N:543:U:H3	2.17	0.42
1:N:563:A:C2	1:N:567:G:C5	3.08	0.42
1:N:894:G:C6	1:N:895:G:C6	3.08	0.42
1:N:1109:C:H3'	1:N:1110:A:C8	2.54	0.42
1:N:495:A:H1'	1:N:496:A:C5	2.55	0.42
1:N:775:G:C6	1:N:776:G:C6	3.07	0.42
1:N:1007:U:C2	1:N:1023:U:O2	2.73	0.42
1:N:514:C:H42	1:N:536:C:H42	1.67	0.41
1:N:626:G:H2'	1:N:627:G:C8	2.55	0.41
1:N:899:C:H2'	1:N:900:A:O4'	2.19	0.41
1:N:1201:A:H5''	1:N:1203:C:OP2	2.20	0.41
1:N:1261:A:H61	1:N:1274:A:C2'	2.33	0.41
1:N:104:G:C5	1:N:105:G:N7	2.88	0.41
1:N:124:C:N3	1:N:238:A:C2	2.88	0.41
1:N:338:A:C5	1:N:339:C:C2	3.08	0.41
1:N:477:C:H2'	1:N:478:A:C8	2.55	0.41
1:N:512:U:H5''	1:N:512:U:H6	1.85	0.41
1:N:528:C:H2'	1:N:529:G:H5'	2.02	0.41
1:N:751:U:C5	1:N:752:G:C4	3.07	0.41
1:N:804:U:C5	1:N:805:C:C4	3.08	0.41
1:N:982:U:H4'	1:N:983:A:O5'	2.20	0.41
1:N:1024:G:C6	1:N:1025:U:C5	3.08	0.41
1:N:1169:A:H2'	1:N:1170:A:C8	2.55	0.41
1:N:1369:C:H2'	1:N:1370:G:C8	2.55	0.41
1:N:80:A:N7	1:N:81:A:C8	2.88	0.41
1:N:499:A:C2	1:N:547:A:C2	3.08	0.41
1:N:640:A:C2	1:N:642:A:N6	2.88	0.41
1:N:723:U:H3	1:N:832:G:N2	2.18	0.41
1:N:1075:U:C4	1:N:1076:U:C4	3.08	0.41
1:N:80:A:H61	1:N:89:U:H3	1.68	0.41
1:N:115:G:C6	1:N:289:G:C6	3.08	0.41
1:N:327:A:C4	1:N:329:A:C8	3.08	0.41
1:N:872:A:C5	1:N:874:G:C8	3.08	0.41
1:N:1072:G:C6	1:N:1073:U:N3	2.88	0.41
1:N:181:A:H4'	1:N:182:A:O5'	2.20	0.41
1:N:1530:G:C4	1:N:1531:A:C2	3.07	0.41
1:N:22:G:C5	1:N:23:C:C5	3.09	0.41
1:N:44:A:C4	1:N:399:G:C2	3.09	0.41
1:N:143:A:H4'	1:N:196:A:C2	2.56	0.41
1:N:444:G:C6	1:N:491:G:C6	3.08	0.41
1:N:1032:G:C5	1:N:1033:G:H1'	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:253:A:H2'	1:N:254:G:C8	2.56	0.41
1:N:342:C:C2	1:N:343:U:C6	3.08	0.41
1:N:588:G:H1	1:N:652:U:H3	1.69	0.41
1:N:782:A:C8	1:N:783:C:C5	3.08	0.41
1:N:1340:A:H2'	1:N:1341:U:H6	1.84	0.41
1:N:1434:A:H2'	1:N:1435:G:O4'	2.20	0.41
1:N:32:A:H4'	1:N:48:C:N4	2.36	0.41
1:N:131:A:N1	1:N:232:G:C6	2.89	0.41
1:N:197:A:C2	1:N:220:G:N3	2.88	0.41
1:N:991:U:H4'	1:N:992:U:OP1	2.21	0.41
1:N:1021:A:H2'	1:N:1022:A:H5''	2.02	0.41
1:N:1198:G:C6	1:N:1199:U:C4	3.08	0.41
1:N:218:U:C4	1:N:219:U:N3	2.89	0.41
1:N:439:U:C5	1:N:440:C:C5	3.09	0.41
1:N:452:A:C5	1:N:453:G:C4	3.09	0.41
1:N:558:G:H2'	1:N:559:A:C2	2.55	0.41
1:N:803:G:C5	1:N:804:U:C4	3.08	0.41
1:N:856:C:H2'	1:N:857:C:C6	2.56	0.41
1:N:1045:C:N3	1:N:1046:A:C8	2.88	0.41
1:N:1315:U:C4	1:N:1316:G:C5	3.09	0.41
1:N:271:C:N3	1:N:272:C:C4	2.89	0.41
1:N:575:G:N2	1:N:881:G:H1'	2.36	0.41
1:N:592:G:C6	1:N:648:A:C6	3.08	0.41
1:N:1202:U:H2'	1:N:1203:C:H6	1.85	0.41
1:N:1206:G:H8	1:N:1206:G:O5'	2.04	0.41
1:N:1299:A:C2	1:N:1301:U:C2	3.09	0.41
1:N:399:G:C6	1:N:400:C:C5	3.09	0.40
1:N:713:G:C6	1:N:714:G:C6	3.08	0.40
1:N:923:A:C4	1:N:924:C:C5	3.09	0.40
1:N:323:U:C5	1:N:324:G:C5	3.09	0.40
1:N:438:U:C5	1:N:494:G:C8	3.10	0.40
1:N:453:G:O6	1:N:480:U:C4	2.75	0.40
1:N:461:A:H3'	1:N:462:G:C5'	2.52	0.40
1:N:466:A:H2'	1:N:467:U:C2	2.56	0.40
1:N:1095:U:N3	1:N:1096:C:C2	2.89	0.40
1:N:1144:G:C6	1:N:1145:A:C5	3.09	0.40
1:N:1258:G:H2'	1:N:1259:C:H6	1.86	0.40
1:N:1482:G:HO2'	1:N:1483:A:H8	1.68	0.40
1:N:74:A:H5'	1:N:90:C:H5'	2.03	0.40
1:N:321:A:H2'	1:N:322:C:H6	1.86	0.40
1:N:342:C:C2	1:N:343:U:N1	2.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:651:C:C4	1:N:652:U:O4	2.75	0.40
1:N:668:G:N1	1:N:739:C:C2	2.89	0.40
1:N:677:U:H3	1:N:713:G:H1	1.68	0.40
1:N:701:U:H5''	1:N:703:G:H5'	2.04	0.40
1:N:1138:G:C6	1:N:1140:C:C2	3.09	0.40
1:N:1170:A:H2'	1:N:1171:A:O4'	2.21	0.40
1:N:1438:G:C5	1:N:1464:U:N3	2.89	0.40
1:N:272:C:H2'	1:N:273:U:C6	2.56	0.40
1:N:405:U:H5'	1:N:495:A:C2	2.56	0.40
1:N:782:A:C6	1:N:783:C:C2	3.09	0.40
1:N:65:A:H2'	1:N:381:C:C4	2.57	0.40
1:N:171:A:C4	1:N:172:A:C5	3.09	0.40
1:N:439:U:O4	1:N:495:A:C2	2.75	0.40
1:N:603:U:H2'	1:N:604:G:H8	1.87	0.40
1:N:1038:C:H2'	1:N:1039:G:C8	2.57	0.40
1:N:1436:U:H2'	1:N:1437:A:C8	2.56	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%)	441 (28%)	162 (10%)

All (441) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	N	3	A
1	N	4	U

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Mol	Chain	Res	Type
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	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	60	A
1	N	61	G
1	N	65	A
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	85	U
1	N	86	G
1	N	87	C
1	N	88	U
1	N	89	U
1	N	90	C
1	N	91	U
1	N	92	U
1	N	94	G

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Mol	Chain	Res	Type
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
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	208	U
1	N	209	U
1	N	210	C
1	N	211	G
1	N	212	G
1	N	214	C

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Mol	Chain	Res	Type
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	281	G
1	N	285	C
1	N	289	G
1	N	306	A
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	376	G

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Mol	Chain	Res	Type
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	439	U
1	N	441	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	508	U
1	N	509	A
1	N	511	C

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Mol	Chain	Res	Type
1	N	512	U
1	N	523	A
1	N	527	G
1	N	531	U
1	N	532	A
1	N	533	A
1	N	534	U
1	N	536	C
1	N	537	G
1	N	548	G
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	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	633	G
1	N	642	A
1	N	649	A
1	N	663	A
1	N	665	A
1	N	702	A
1	N	703	G
1	N	718	A
1	N	719	C

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Mol	Chain	Res	Type
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
1	N	755	G
1	N	767	A
1	N	774	G
1	N	776	G
1	N	777	A
1	N	787	A
1	N	788	U
1	N	792	A
1	N	793	U
1	N	794	A
1	N	812	G
1	N	813	U
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	828	U
1	N	829	G
1	N	832	G
1	N	842	U
1	N	843	U
1	N	844	G
1	N	846	G
1	N	849	G
1	N	855	U
1	N	861	G
1	N	871	U
1	N	874	G
1	N	884	U
1	N	885	G
1	N	903	G
1	N	914	A

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Mol	Chain	Res	Type
1	N	926	G
1	N	927	G
1	N	932	C
1	N	934	C
1	N	935	A
1	N	944	G
1	N	960	U
1	N	961	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	1034	G
1	N	1036	A
1	N	1037	C
1	N	1050	G
1	N	1052	U
1	N	1053	G
1	N	1054	C
1	N	1055	A

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Mol	Chain	Res	Type
1	N	1064	G
1	N	1065	U
1	N	1066	C
1	N	1067	A
1	N	1085	U
1	N	1086	U
1	N	1087	G
1	N	1091	U
1	N	1092	A
1	N	1094	G
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	1130	A
1	N	1133	G
1	N	1135	U
1	N	1137	C
1	N	1138	G
1	N	1139	G
1	N	1140	C
1	N	1141	C
1	N	1143	G
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

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Mol	Chain	Res	Type
1	N	1182	G
1	N	1188	A
1	N	1189	U
1	N	1190	G
1	N	1191	A
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	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

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Mol	Chain	Res	Type
1	N	1299	A
1	N	1300	G
1	N	1303	C
1	N	1305	G
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	1345	U
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	1371	G
1	N	1380	U
1	N	1381	U
1	N	1391	U
1	N	1392	G
1	N	1394	A
1	N	1396	A
1	N	1397	C
1	N	1399	C
1	N	1400	C
1	N	1406	U
1	N	1433	A
1	N	1441	A
1	N	1446	A
1	N	1448	C
1	N	1453	G
1	N	1454	G
1	N	1456	A

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Mol	Chain	Res	Type
1	N	1457	G
1	N	1469	C
1	N	1470	U
1	N	1476	A
1	N	1492	A
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	1529	G
1	N	1530	G
1	N	1531	A
1	N	1533	C
1	N	1534	A

All (162) 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	70	U
1	N	71	A
1	N	73	C
1	N	75	G
1	N	81	A
1	N	87	C
1	N	94	G
1	N	95	C
1	N	108	G
1	N	109	A

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Mol	Chain	Res	Type
1	N	115	G
1	N	119	A
1	N	120	A
1	N	129	A
1	N	130	A
1	N	131	A
1	N	134	G
1	N	167	A
1	N	178	C
1	N	181	A
1	N	197	A
1	N	198	G
1	N	210	C
1	N	243	A
1	N	246	A
1	N	250	A
1	N	251	G
1	N	266	G
1	N	267	C
1	N	274	A
1	N	275	G
1	N	279	A
1	N	280	C
1	N	305	G
1	N	307	C
1	N	327	A
1	N	331	G
1	N	344	A
1	N	346	G
1	N	351	G
1	N	366	A
1	N	372	C
1	N	421	U
1	N	428	G
1	N	429	U
1	N	431	A
1	N	438	U
1	N	451	A
1	N	463	U
1	N	467	U
1	N	480	U
1	N	481	G

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Mol	Chain	Res	Type
1	N	484	G
1	N	485	U
1	N	486	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	530	G
1	N	531	U
1	N	532	A
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	606	G
1	N	631	C
1	N	637	C
1	N	641	U
1	N	686	U
1	N	717	U
1	N	721	G
1	N	723	U
1	N	733	G
1	N	754	C
1	N	774	G
1	N	811	C
1	N	817	C
1	N	818	G
1	N	819	A
1	N	843	U
1	N	845	A
1	N	870	U
1	N	884	U
1	N	913	A
1	N	914	A
1	N	922	G
1	N	934	C

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Mol	Chain	Res	Type
1	N	960	U
1	N	966	G
1	N	974	A
1	N	975	A
1	N	976	G
1	N	982	U
1	N	991	U
1	N	993	G
1	N	1036	A
1	N	1041	G
1	N	1049	U
1	N	1053	G
1	N	1064	G
1	N	1066	C
1	N	1087	G
1	N	1101	A
1	N	1129	C
1	N	1136	C
1	N	1151	A
1	N	1160	G
1	N	1168	U
1	N	1185	G
1	N	1188	A
1	N	1189	U
1	N	1190	G
1	N	1191	A
1	N	1193	G
1	N	1197	A
1	N	1201	A
1	N	1223	C
1	N	1224	U
1	N	1228	C
1	N	1239	A
1	N	1278	G
1	N	1280	A
1	N	1282	C
1	N	1285	A
1	N	1299	A
1	N	1303	C
1	N	1319	A
1	N	1331	G
1	N	1336	C

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Mol	Chain	Res	Type
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	1399	C
1	N	1432	G
1	N	1494	G
1	N	1498	U
1	N	1502	A
1	N	1505	G
1	N	1506	U
1	N	1530	G
1	N	1533	C

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

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.

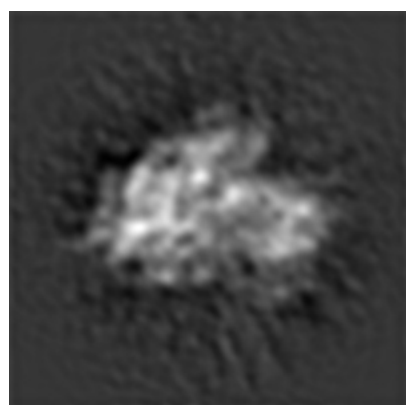
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-5503. These allow visual inspection of the internal detail of the map and identification of artifacts.

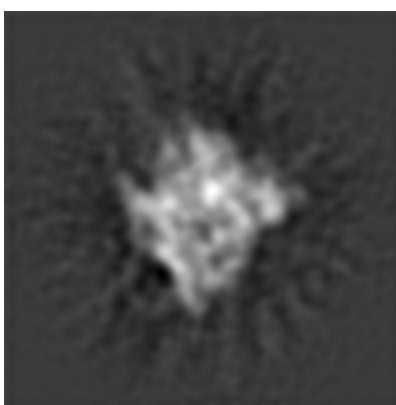
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

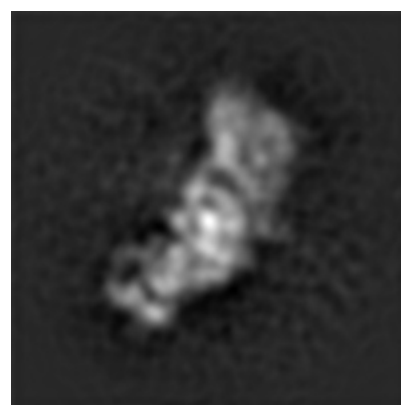
6.1.1 Primary map



X



Y

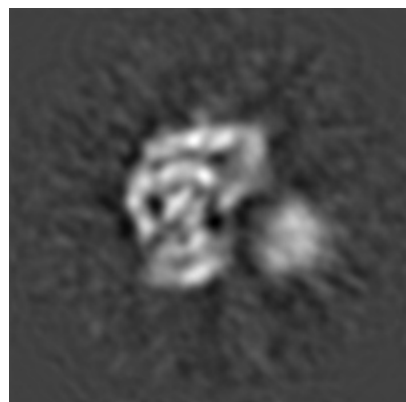


Z

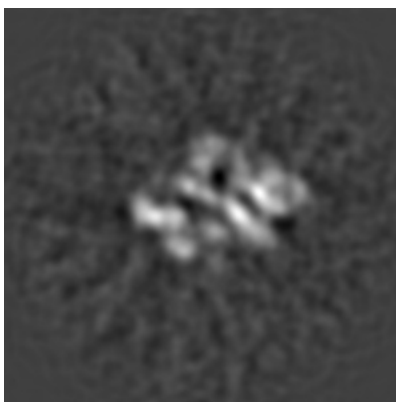
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

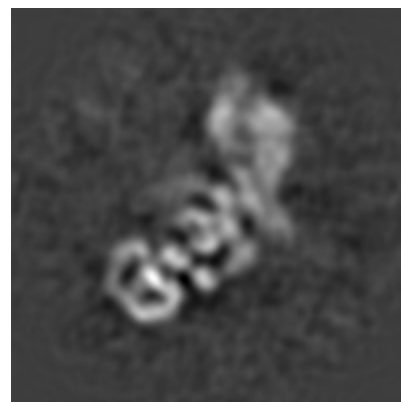
6.2.1 Primary map



X Index: 62



Y Index: 62

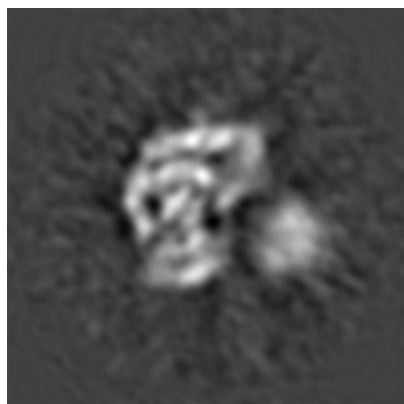


Z Index: 62

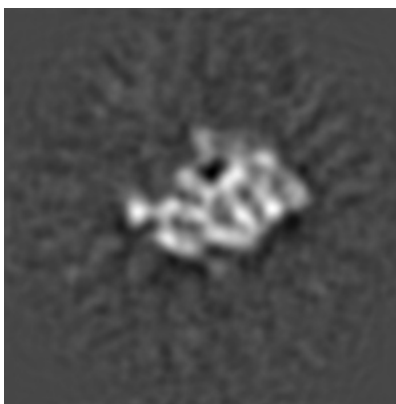
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

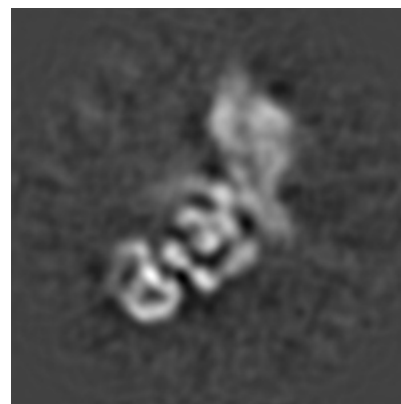
6.3.1 Primary map



X Index: 62



Y Index: 58

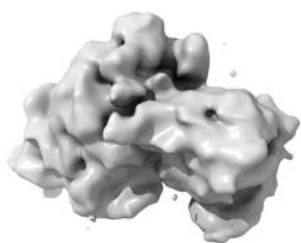


Z Index: 63

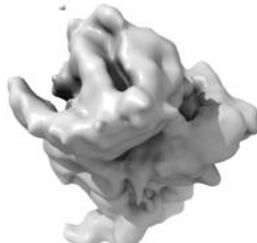
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

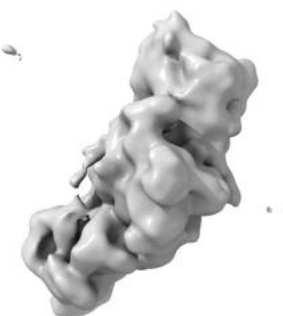
6.4.1 Primary map



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.

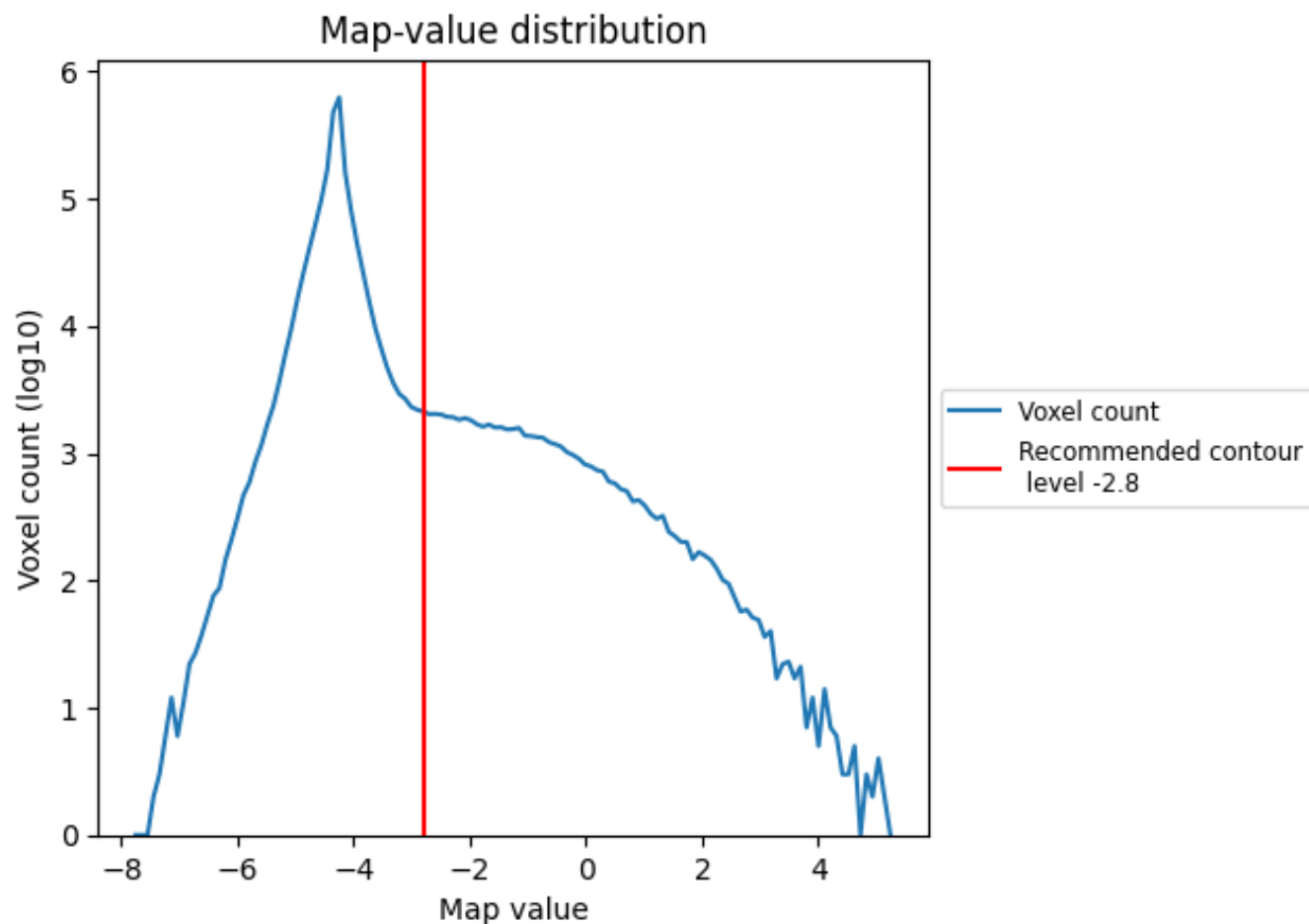
6.5 Mask visualisation

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

7 Map analysis [i](#)

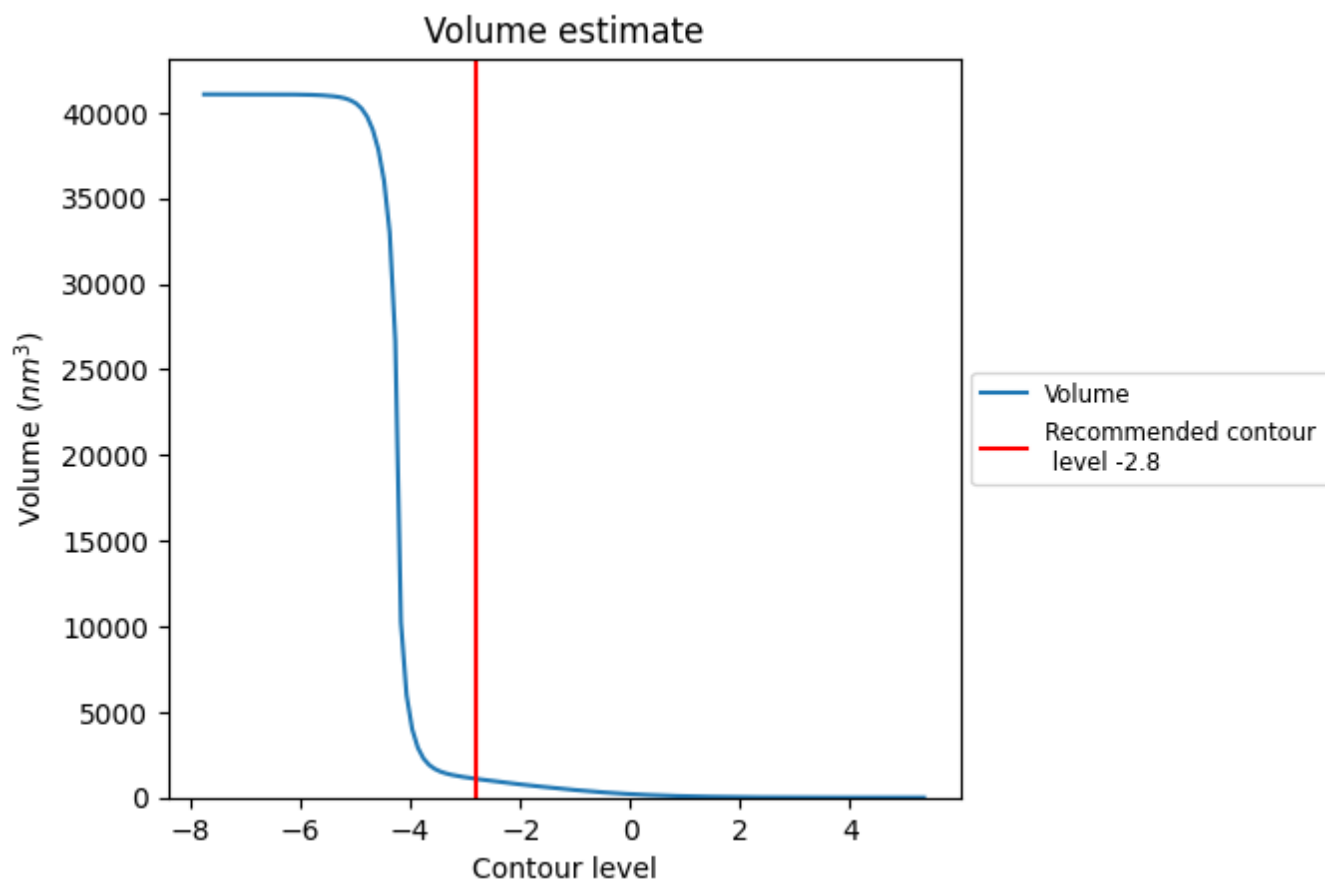
This section contains the results of statistical analysis of the map.

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.

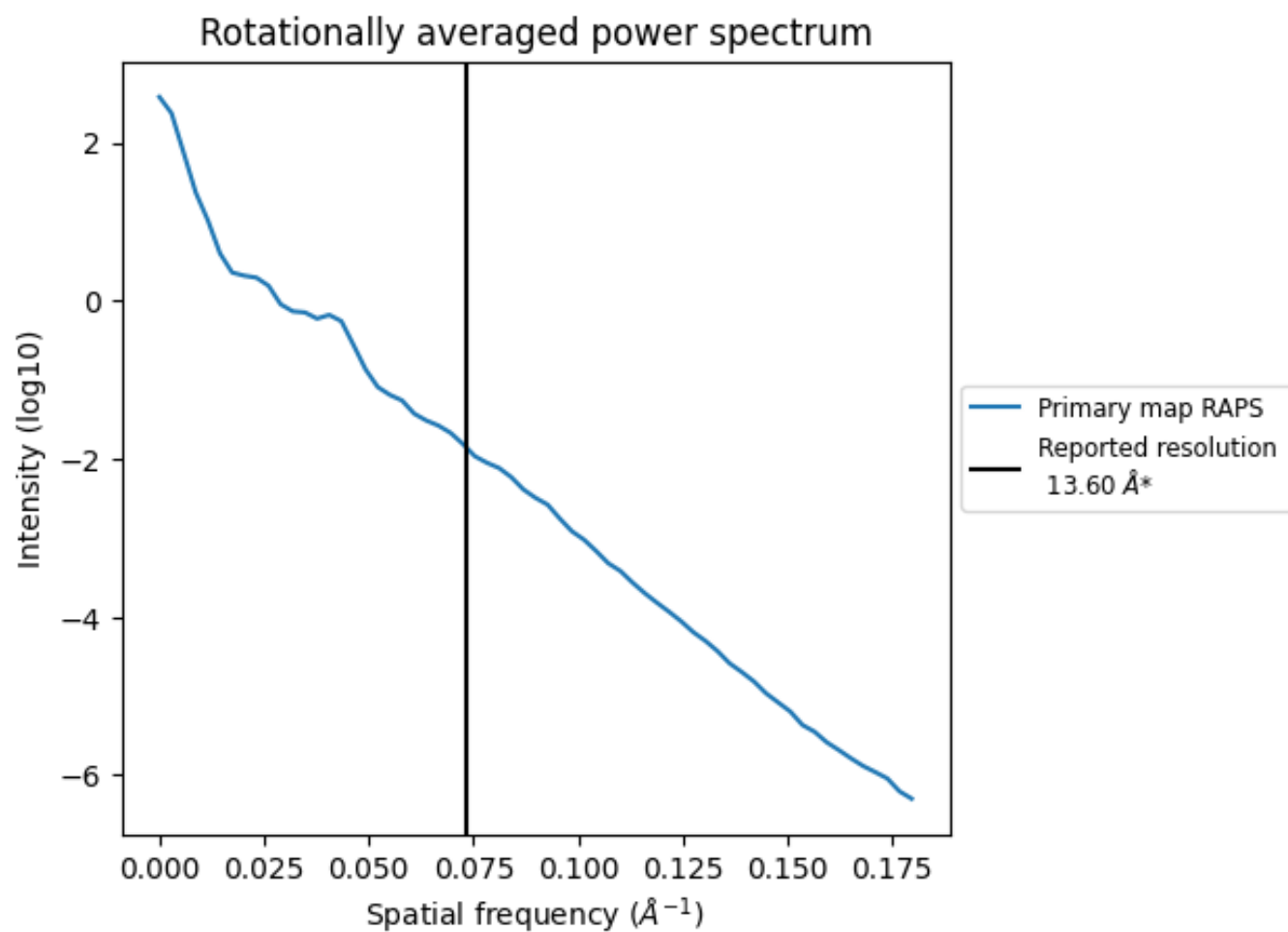
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1092 nm³; this corresponds to an approximate mass of 986 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 0.074 Å⁻¹

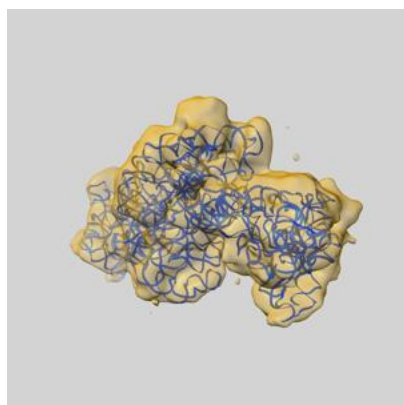
8 Fourier-Shell correlation ⓘ

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

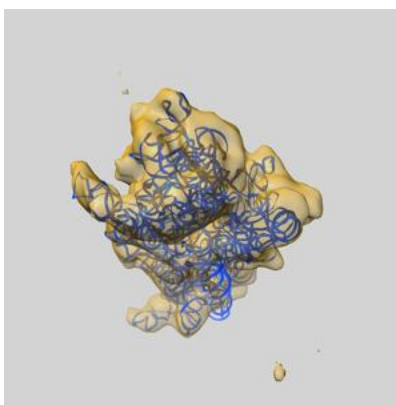
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-5503 and PDB model 3J2B. Per-residue inclusion information can be found in [section 3](#) on [page 4](#).

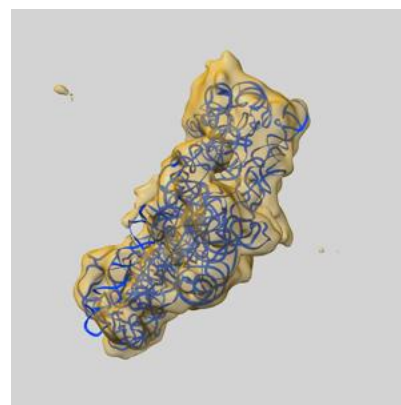
9.1 Map-model overlay [i](#)



X



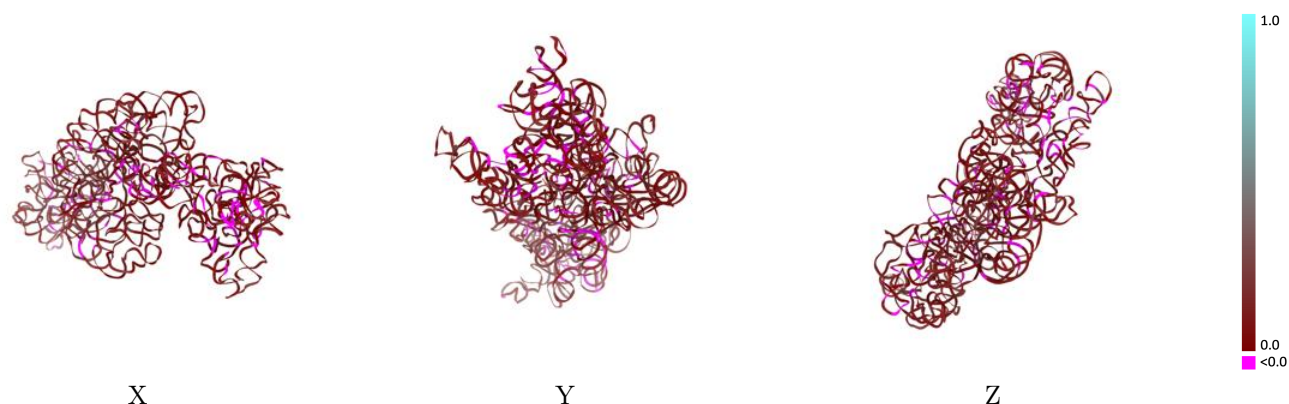
Y



Z

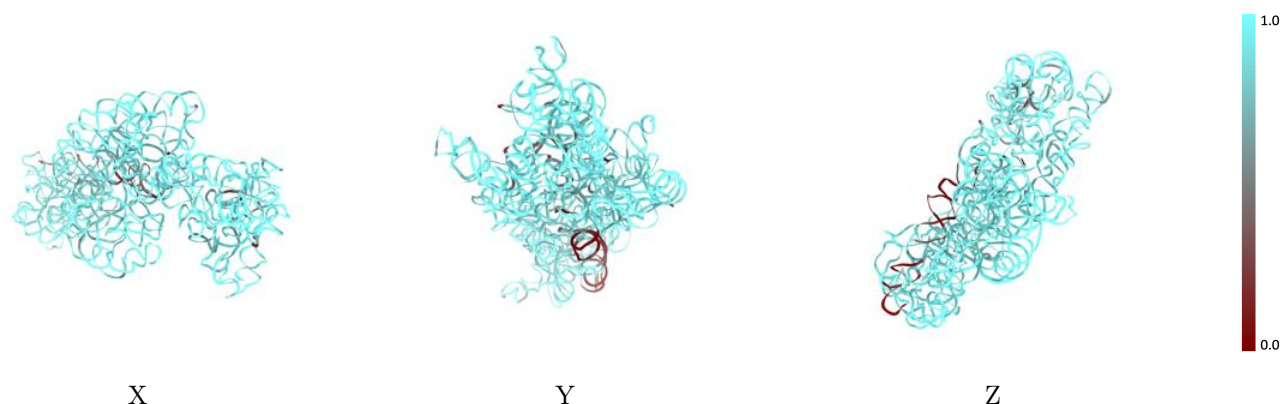
The images above show the 3D surface view of the map at the recommended contour level -2.8 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



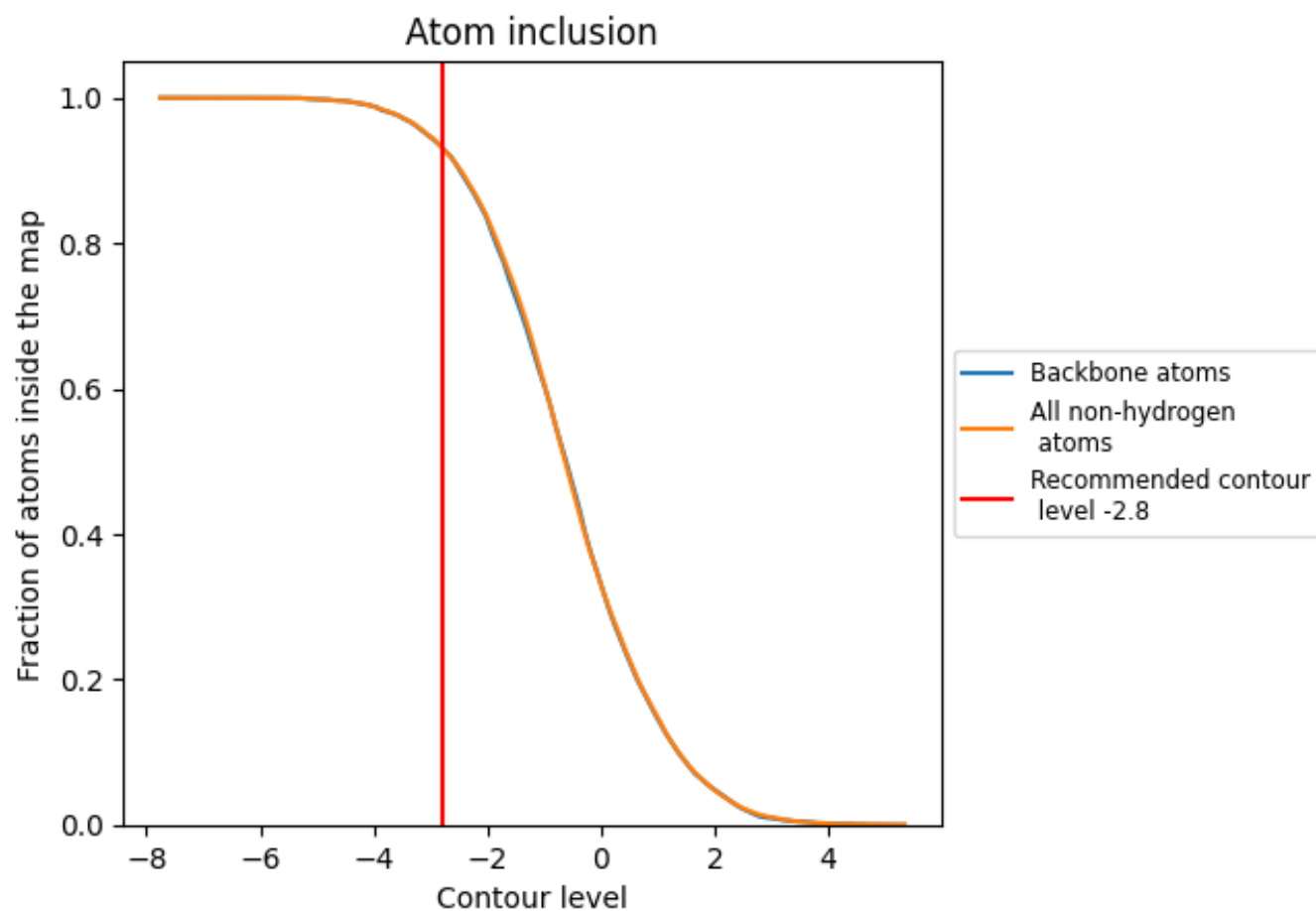
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 93% of all backbone atoms, 93% 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></div></div> 0.9312	<div><div></div></div> 0.0880
N	<div><div></div></div> 0.9315	<div><div></div></div> 0.0880

