



wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 01:46 PM BST

PDB ID : 3J2D
EMDB ID: : EMD-5506
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 : 18.70 Å(reported)
Based on PDB ID : 3OFA

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.

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

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>

MolProbity : 4.02b-467
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : trunk27241

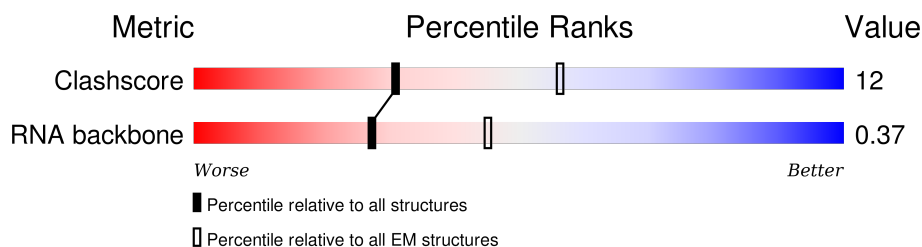
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY


The reported resolution of this entry is 18.70 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	114402	924
RNA backbone	3027	244

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

Mol	Chain	Length	Quality of chain
1	N	1533	

2 Entry composition

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

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

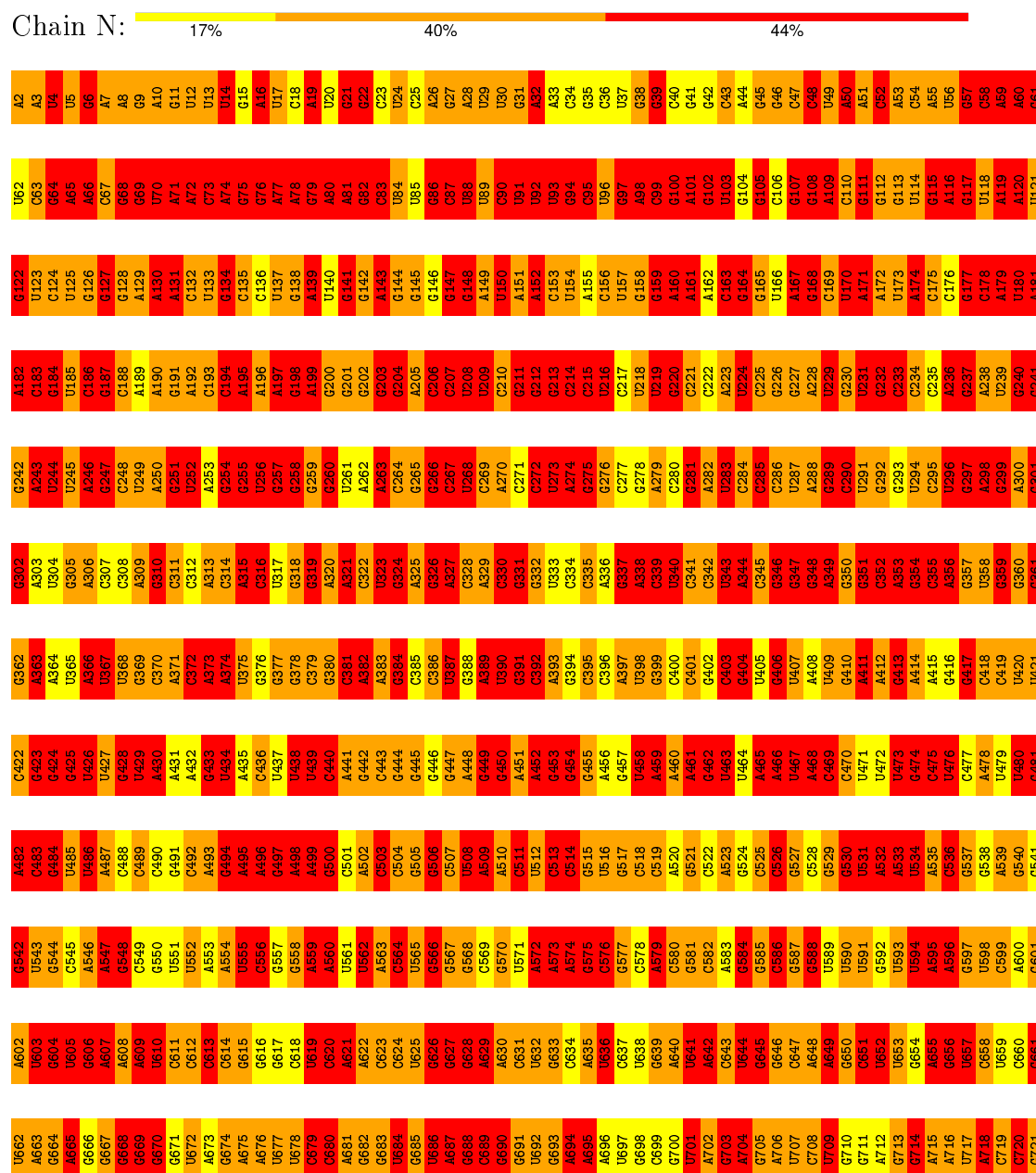
- Molecule 1 is a RNA chain called 16S rRNA.

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

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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	C1322	C1262	U1202	G1142	A1082	A1022	C962	G902	U842	A782	G722
A1503	C1443	C1383	G1323	C1263	C1203	G1143	U1083	U1023	G963	G903	U843	C783	U723
A1504	C1444	C1384	A1324	C1264	A1204	G1144	G1084	G1024	A964	U904	A844	A784	G724
G1505	U1444	G1385	C1325	C1265	U1205	A1144	U1085	U1025	U965	U905	A845	G785	G725
A1506	A1446	G1386	U1326	G1266	G1206	C1146	U1086	G1026	G966	A906	G846	G786	C726
A1507	A1447	G1387	G1327	C1267	G1207	U1147	G1087	C1027	G967	A907	G847	A787	G727
A1508	C1448	C1388	C1328	G1268	C1208	U1148	G1088	G1028	A968	A908	C848	U788	A728
C1509	C1449	C1389	A1329	A1269	C1209	C1149	G1089	U1029	A969	A909	G849	U789	A729
C1510	U1450	U1390	U1330	G1270	C1210	A1150	U1090	U1030	C970	C910	U850	A790	G730
U1511	U1451	G1391	G1331	U1271	U1211	A1151	U1091	C1031	G971	U911	G851	G791	G731
U1512	C1452	G1392	A1332	G1272	U1212	A1152	A1092	G1032	C972	C912	G852	A792	C732
A1513	G1453	U1393	C1333	C1273	C1213	G1153	A1093	G1033	G973	A913	C853	U793	G733
G1514	G1454	A1394	G1334	A1274	C1214	G1154	G1094	G1034	A974	A914	U854	G794	G734
G1515	G1455	C1395	U1335	A1275	G1215	A1155	U1095	A1035	A975	A915	U855	C795	C735
G1516	A1456	A1396	G1336	G1276	A1216	G1156	C1096	A1036	G976	U916	C856	C796	C736
G1517	G1457	C1397	G1337	C1277	C1217	A1157	G1097	U1037	A977	C917	C857	C797	C737
A1518	G1458	A1398	G1338	G1278	C1218	U1158	C1098	G1038	A978	A918	G858	U798	C738
A1519	G1459	A1399	A1339	G1279	A1219	U1159	G1099	G1039	C979	A919	G859	G799	C739
C1520	C1460	C1400	A1340	A1280	G1220	G1160	G1100	U1040	C980	U920	A860	G800	U740
C1521	G1461	G1401	U1341	C1281	G1221	C1161	A1101	G1041	U981	U921	G861	U801	G741
U1522	C1462	C1402	C1342	C1282	G1222	C1162	A1102	A1042	U982	C922	C862	A802	G742
G1523	U1463	G1403	G1343	U1283	C1223	A1163	C1103	G1043	A983	A923	U863	G803	A743
C1524	U1464	C1404	C1344	C1284	U1224	G1164	G1104	A1044	C984	C924	A864	U804	C744
G1525	A1465	G1405	U1345	A1285	A1225	U1165	A1105	C1045	C985	G925	A865	G805	G745
G1526	C1466	U1406	A1346	U1286	C1226	G1166	G1106	A1046	U986	G926	C866	C806	A746
U1527	C1467	C1407	G1347	A1287	A1227	A1167	C1107	G1047	C987	C927	G867	A807	A747
U1528	A1468	A1408	U1348	A1288	C1228	U1168	G1108	U1048	U988	G928	C868	C808	G748
G1529	C1469	C1409	A1349	A1289	A1229	U1169	A1109	G1049	U989	G929	C869	G809	A749
G1530	U1470	A1410	A1350	G1290	C1230	A1170	A1110	G1050	C990	C930	U870	C810	C750
A1531	U1471	C1411	U1351	U1291	G1231	A1171	A1111	C1051	U991	C931	U871	C811	U751
U1532	U1472	C1412	C1352	G1292	U1232	G1172	C1112	U1052	U992	C932	A872	G812	G752
C1533	G1473	A1413	G1353	C1293	G1233	U1173	C1113	G1053	C993	C933	A873	U813	A753
A1534	U1474	U1414	U1354	G1294	C1234	G1174	C1114	C1054	A994	C934	G874	A814	C754
	G1475	G1415	G1355	U1295	U1235	G1175	U1115	A1055	C995	A935	U875	A815	G755
	A1476	G1416	G1356	C1296	A1236	A1176	U1116	U1056	A996	C936	C876	A816	C756
	U1477	G1417	A1357	G1297	C1237	G1177	A1117	G1057	U997	A937	A877	C817	U757
	U1478	A1418	U1358	U1298	A1238	G1178	U1118	G1058	C998	A938	A878	G818	C758
	C1479	C1419	C1359	A1299	A1239	A1179	C1119	C1059	C999	C939	C879	A819	A759
	A1480	U1420	A1360	G1300	U1240	A1180	C1120	U1060	A1000	C940	C880	U820	G760
	U1481	G1421	G1361	U1301	G1241	G1181	U1121	G1061	C1001	G941	G881	G821	G761
	G1482	G1422	A1362	C1302	G1242	U1182	U1122	U1062	G1002	G942	C882	U822	U762
A1483	A1483	A1423	A1363	C1303	C1243	U1183	U1123	C1063	G1003	U943	C883	C823	G763
C1484	U1424	U1364	G1304	G1304	G1244	G1184	G1124	G1064	A1004	G944	U884	G824	C764
U1485	U1425	G1365	G1305	G1305	C1245	G1185	U1125	U1065	A1005	G945	C885	A825	G765
G1486	G1426	C1366	A1306	A1306	A1246	G1186	U1126	C1066	G1006	A946	G886	C826	A766
G1487	C1427	C1367	U1307	U1307	U1247	G1187	C1127	A1067	U1007	G947	G887	U827	A767
G1488	A1428	A1368	U1308	U1308	A1248	U1188	C1128	G1068	U1008	C948	G888	U828	A768
G1489	G1429	C1369	G1309	G1309	C1249	U1189	C1129	C1069	U1009	A949	A889	G829	G769
U1490	A1430	G1370	G1310	G1310	A1250	G1190	A1130	U1070	U1010	U950	G890	G830	C770
A1491	A1431	G1371	A1311	A1311	A1251	A1191	G1131	C1071	C1011	G951	U891	A831	G771
A1492	G1432	U1372	G1312	A1252	C1252	C1192	C1132	G1072	A1012	U952	A892	G832	U772
A1493	A1433	G1373	U1313	G1253	C1253	G1193	G1133	U1073	G1013	G953	C893	G833	G773
G1494	A1434	A1374	C1314	A1254	A1254	U1194	G1134	G1074	A1014	G954	C894	U834	G774
U1495	U1435	A1375	U1315	G1255	G1255	C1195	U1135	U1075	G1015	U955	C895	U835	G775
C1496	U1436	U1376	G1316	A1256	A1256	A1196	C1136	U1076	A1016	U956	C896	G836	G776
G1497	A1437	A1377	C1317	C1257	U1257	A1197	G1137	G1077	U1017	U957	C897	U837	A777
U1498	G1438	C1378	A1318	G1258	G1258	G1198	G1138	U1078	G1018	A958	G898	G838	G778
A1499	G1439	U1379	A1319	C1259	C1259	U1199	G1139	G1079	A1019	A959	C899	C839	C779
A1500	U1440	U1380	C1320	G1260	C1260	C1200	U1140	A1080	G1020	U960	A900	C840	A780
	A1441	U1381	U1321	A1261	A1261	A1201	C1141	A1081	A1021	U961	A901	C841	A781

4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images	18809	Depositor
Resolution determination method	FSC at 0.5 cut-off	Depositor
CTF correction method	Weiner filter	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	3800	Depositor
Magnification	59000	Depositor
Image detector	FEI Eagle 4k*4k CCD	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	$\# Z > 2$	RMSZ	$\# Z > 2$
1	N	3.48	5387/36831 (14.6%)	4.00	9573/57458 (16.7%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	N	0	971

All (5387) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	778	G	N7-C5	-23.11	1.25	1.39
1	N	243	A	N7-C5	-20.09	1.27	1.39
1	N	382	A	N7-C5	-18.91	1.27	1.39
1	N	696	A	N7-C5	-18.62	1.28	1.39
1	N	809	G	C6-N1	18.30	1.52	1.39
1	N	130	A	N9-C4	-17.20	1.27	1.37
1	N	1046	A	N7-C5	-16.48	1.29	1.39
1	N	120	A	N7-C5	-16.38	1.29	1.39
1	N	821	G	N7-C5	-15.50	1.29	1.39
1	N	1382	C	N3-C4	14.96	1.44	1.33
1	N	595	A	C6-N6	14.94	1.46	1.33
1	N	187	G	N7-C5	-14.85	1.30	1.39
1	N	1252	A	N9-C4	14.77	1.46	1.37
1	N	651	C	N1-C6	14.74	1.46	1.37
1	N	348	G	N1-C2	14.71	1.49	1.37
1	N	1284	C	N1-C6	-14.71	1.28	1.37
1	N	972	C	N1-C6	-14.58	1.28	1.37
1	N	1255	G	N9-C4	-14.52	1.26	1.38
1	N	142	G	N1-C2	14.48	1.49	1.37
1	N	1004	A	N7-C5	-14.41	1.30	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	394	G	N7-C5	-14.39	1.30	1.39
1	N	1016	A	N7-C5	-14.33	1.30	1.39
1	N	1288	A	N7-C5	-14.33	1.30	1.39
1	N	907	A	N7-C5	-14.29	1.30	1.39
1	N	136	C	N1-C6	-14.24	1.28	1.37
1	N	1454	G	N9-C8	-13.95	1.28	1.37
1	N	1247	U	N3-C4	13.91	1.50	1.38
1	N	517	G	C2-N3	13.91	1.43	1.32
1	N	445	G	N7-C5	-13.88	1.30	1.39
1	N	864	A	N7-C5	-13.86	1.30	1.39
1	N	1049	U	C2-N3	13.80	1.47	1.37
1	N	1479	C	N1-C6	13.78	1.45	1.37
1	N	1316	G	C6-N1	13.71	1.49	1.39
1	N	1371	G	C6-N1	13.69	1.49	1.39
1	N	50	A	N9-C4	-13.65	1.29	1.37
1	N	1323	G	N7-C5	-13.62	1.31	1.39
1	N	477	C	P-O5'	-13.61	1.46	1.59
1	N	309	A	C6-N6	13.56	1.44	1.33
1	N	299	G	N7-C5	-13.55	1.31	1.39
1	N	981	U	C2-N3	13.53	1.47	1.37
1	N	639	G	C6-N1	13.51	1.49	1.39
1	N	1275	A	C6-N6	13.40	1.44	1.33
1	N	230	G	N1-C2	13.25	1.48	1.37
1	N	363	A	N9-C4	13.24	1.45	1.37
1	N	42	G	C5-C4	13.23	1.47	1.38
1	N	867	G	N3-C4	-13.21	1.26	1.35
1	N	496	A	N3-C4	-13.20	1.26	1.34
1	N	1366	C	N3-C4	13.19	1.43	1.33
1	N	988	G	C6-N1	13.17	1.48	1.39
1	N	1426	G	C2-N3	13.06	1.43	1.32
1	N	816	A	C6-N6	13.02	1.44	1.33
1	N	1483	A	N7-C5	-13.00	1.31	1.39
1	N	222	C	P-O5'	-13.00	1.46	1.59
1	N	675	A	C6-N6	12.96	1.44	1.33
1	N	731	G	N7-C5	-12.96	1.31	1.39
1	N	1357	A	N7-C5	-12.94	1.31	1.39
1	N	489	C	N3-C4	12.90	1.43	1.33
1	N	366	A	N7-C5	-12.88	1.31	1.39
1	N	389	A	C5-C4	-12.88	1.29	1.38
1	N	40	C	N1-C6	12.87	1.44	1.37
1	N	367	U	C2-N3	12.87	1.46	1.37
1	N	933	G	N7-C5	-12.84	1.31	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1458	G	N1-C2	12.79	1.48	1.37
1	N	348	G	N7-C5	12.76	1.47	1.39
1	N	666	G	C2-N3	12.74	1.43	1.32
1	N	1267	C	N3-C4	12.72	1.42	1.33
1	N	1048	G	N7-C5	-12.69	1.31	1.39
1	N	1197	A	C6-N1	12.69	1.44	1.35
1	N	647	C	C4-N4	12.68	1.45	1.33
1	N	812	G	N7-C5	-12.68	1.31	1.39
1	N	544	G	N1-C2	12.66	1.47	1.37
1	N	1484	C	N1-C6	12.63	1.44	1.37
1	N	628	G	N7-C5	-12.62	1.31	1.39
1	N	1254	A	N7-C5	-12.62	1.31	1.39
1	N	540	G	C8-N7	12.61	1.38	1.30
1	N	238	A	N7-C5	-12.60	1.31	1.39
1	N	530	G	C6-N1	12.58	1.48	1.39
1	N	621	A	C5-C4	12.49	1.47	1.38
1	N	1431	A	N7-C5	-12.49	1.31	1.39
1	N	17	U	C2-N3	12.49	1.46	1.37
1	N	969	A	N7-C5	-12.47	1.31	1.39
1	N	898	G	C2-N3	12.44	1.42	1.32
1	N	1093	A	C6-N1	12.41	1.44	1.35
1	N	288	A	C2'-C1'	-12.38	1.39	1.53
1	N	1275	A	N7-C5	-12.36	1.31	1.39
1	N	233	C	C4-N4	12.34	1.45	1.33
1	N	1395	C	P-O5'	12.32	1.72	1.59
1	N	457	G	C8-N7	-12.32	1.23	1.30
1	N	748	G	C2-N3	12.32	1.42	1.32
1	N	1099	G	C6-N1	12.31	1.48	1.39
1	N	351	G	N1-C2	12.31	1.47	1.37
1	N	1215	G	N7-C5	-12.31	1.31	1.39
1	N	143	A	C6-N1	12.24	1.44	1.35
1	N	1501	C	N1-C6	-12.24	1.29	1.37
1	N	134	G	C8-N7	-12.24	1.23	1.30
1	N	292	G	C8-N7	-12.23	1.23	1.30
1	N	7	A	N9-C4	12.23	1.45	1.37
1	N	824	G	N1-C2	12.23	1.47	1.37
1	N	1494	G	N1-C2	12.22	1.47	1.37
1	N	1185	G	C6-N1	12.22	1.48	1.39
1	N	478	A	N7-C5	-12.21	1.31	1.39
1	N	747	A	C6-N6	12.19	1.43	1.33
1	N	1053	G	N3-C4	-12.18	1.26	1.35
1	N	1377	A	C6-N1	12.18	1.44	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1042	A	N7-C5	-12.15	1.31	1.39
1	N	1077	G	N7-C5	-12.14	1.31	1.39
1	N	125	U	C2-N3	12.14	1.46	1.37
1	N	100	G	C2-N3	12.13	1.42	1.32
1	N	1531	A	C8-N7	-12.12	1.23	1.31
1	N	906	A	N9-C8	-12.10	1.28	1.37
1	N	473	U	C2-N3	12.10	1.46	1.37
1	N	1355	G	N7-C5	12.07	1.46	1.39
1	N	1437	A	N3-C4	-12.06	1.27	1.34
1	N	60	A	N7-C5	-12.06	1.32	1.39
1	N	336	A	N9-C8	12.06	1.47	1.37
1	N	824	G	N7-C5	-12.05	1.32	1.39
1	N	1238	A	N7-C5	-12.03	1.32	1.39
1	N	274	A	N9-C4	-12.03	1.30	1.37
1	N	1143	G	N7-C5	-12.02	1.32	1.39
1	N	590	U	C2-N3	12.01	1.46	1.37
1	N	432	A	N3-C4	12.00	1.42	1.34
1	N	128	G	N1-C2	11.98	1.47	1.37
1	N	214	C	N3-C4	11.96	1.42	1.33
1	N	1160	G	N7-C5	-11.94	1.32	1.39
1	N	1202	U	C2-N3	11.94	1.46	1.37
1	N	315	A	N7-C5	-11.93	1.32	1.39
1	N	540	G	N7-C5	-11.93	1.32	1.39
1	N	838	G	C8-N7	-11.93	1.23	1.30
1	N	1423	G	N9-C4	-11.90	1.28	1.38
1	N	764	C	N3-C4	11.85	1.42	1.33
1	N	1423	G	N7-C5	-11.84	1.32	1.39
1	N	741	G	N9-C4	11.84	1.47	1.38
1	N	1492	A	N9-C4	-11.84	1.30	1.37
1	N	91	U	C2-N3	11.83	1.46	1.37
1	N	1403	C	C4-C5	11.80	1.52	1.43
1	N	51	A	C6-N6	11.79	1.43	1.33
1	N	1218	C	N1-C6	11.75	1.44	1.37
1	N	195	A	O3'-P	-11.74	1.47	1.61
1	N	1190	G	N3-C4	11.74	1.43	1.35
1	N	490	C	C4-N4	11.71	1.44	1.33
1	N	359	G	N1-C2	11.70	1.47	1.37
1	N	774	G	N1-C2	11.68	1.47	1.37
1	N	698	G	C5-C6	-11.67	1.30	1.42
1	N	452	A	N3-C4	11.66	1.41	1.34
1	N	1304	G	N3-C4	-11.63	1.27	1.35
1	N	434	U	N3-C4	11.63	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	581	G	N7-C5	-11.63	1.32	1.39
1	N	942	G	C8-N7	11.63	1.38	1.30
1	N	1128	C	P-O5'	-11.62	1.48	1.59
1	N	809	G	N1-C2	11.62	1.47	1.37
1	N	1454	G	N7-C5	-11.58	1.32	1.39
1	N	533	A	C3'-C2'	-11.57	1.40	1.52
1	N	112	G	N1-C2	11.56	1.47	1.37
1	N	1390	U	C2-N3	11.56	1.45	1.37
1	N	1215	G	C6-N1	11.55	1.47	1.39
1	N	1269	A	N9-C8	-11.55	1.28	1.37
1	N	1251	A	N7-C5	-11.54	1.32	1.39
1	N	656	G	N3-C4	-11.53	1.27	1.35
1	N	648	A	N7-C5	-11.53	1.32	1.39
1	N	572	A	N3-C4	-11.52	1.27	1.34
1	N	1351	U	C2-N3	11.52	1.45	1.37
1	N	207	C	N1-C6	11.50	1.44	1.37
1	N	63	C	N1-C6	11.50	1.44	1.37
1	N	1015	G	C5'-C4'	11.49	1.65	1.51
1	N	141	G	C5-C4	-11.48	1.30	1.38
1	N	373	A	N3-C4	-11.46	1.27	1.34
1	N	1192	C	N3-C4	11.44	1.42	1.33
1	N	110	C	C2-N3	11.43	1.44	1.35
1	N	1312	G	C5-C6	-11.43	1.30	1.42
1	N	59	A	N3-C4	11.42	1.41	1.34
1	N	1334	G	C6-N1	-11.42	1.31	1.39
1	N	455	G	N7-C5	-11.42	1.32	1.39
1	N	1221	G	N9-C4	-11.42	1.28	1.38
1	N	289	G	N7-C5	-11.41	1.32	1.39
1	N	702	A	N7-C5	-11.40	1.32	1.39
1	N	668	G	N9-C4	-11.40	1.28	1.38
1	N	484	G	N7-C5	-11.38	1.32	1.39
1	N	802	A	N3-C4	-11.38	1.28	1.34
1	N	152	A	C4'-C3'	11.38	1.65	1.53
1	N	969	A	N9-C4	-11.37	1.31	1.37
1	N	260	G	C5-C4	-11.37	1.30	1.38
1	N	1387	G	C6-N1	11.36	1.47	1.39
1	N	243	A	N3-C4	-11.36	1.28	1.34
1	N	1460	C	N1-C6	11.34	1.44	1.37
1	N	1053	G	C8-N7	11.33	1.37	1.30
1	N	1382	C	N1-C6	11.32	1.44	1.37
1	N	725	G	C2-N3	11.32	1.41	1.32
1	N	476	U	C4-C5	11.27	1.53	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	746	A	C5-C4	11.26	1.46	1.38
1	N	42	G	C5-C6	-11.26	1.31	1.42
1	N	357	G	N7-C5	-11.25	1.32	1.39
1	N	1433	A	N9-C4	-11.24	1.31	1.37
1	N	160	A	C6-N1	11.23	1.43	1.35
1	N	138	G	C8-N7	11.23	1.37	1.30
1	N	278	G	N1-C2	11.22	1.46	1.37
1	N	820	U	C4-C5	11.22	1.53	1.43
1	N	592	G	N7-C5	-11.21	1.32	1.39
1	N	669	G	C6-N1	11.21	1.47	1.39
1	N	738	C	N3-C4	11.20	1.41	1.33
1	N	1188	A	N7-C5	-11.20	1.32	1.39
1	N	1246	A	C5-C4	11.18	1.46	1.38
1	N	378	G	N7-C5	-11.18	1.32	1.39
1	N	1508	A	C6-N6	11.17	1.42	1.33
1	N	673	A	N7-C5	-11.16	1.32	1.39
1	N	197	A	C6-N6	11.16	1.42	1.33
1	N	1250	A	N9-C4	11.15	1.44	1.37
1	N	254	G	N1-C2	11.14	1.46	1.37
1	N	213	G	C6-N1	11.14	1.47	1.39
1	N	771	G	C6-N1	11.12	1.47	1.39
1	N	1403	C	N3-C4	11.11	1.41	1.33
1	N	835	U	C5'-C4'	11.10	1.64	1.51
1	N	663	A	C5'-C4'	11.09	1.64	1.51
1	N	909	A	C6-N6	11.08	1.42	1.33
1	N	270	A	C6-N1	11.08	1.43	1.35
1	N	68	G	N3-C4	-11.07	1.27	1.35
1	N	1387	G	C8-N7	11.07	1.37	1.30
1	N	258	G	N7-C5	11.06	1.45	1.39
1	N	1056	U	N3-C4	11.05	1.48	1.38
1	N	1378	C	N1-C6	11.05	1.43	1.37
1	N	450	G	P-O5'	-11.05	1.48	1.59
1	N	547	A	N7-C5	-11.05	1.32	1.39
1	N	749	A	N3-C4	11.05	1.41	1.34
1	N	65	A	O3'-P	-11.02	1.48	1.61
1	N	1001	C	N3-C4	11.01	1.41	1.33
1	N	965	U	C2-N3	10.96	1.45	1.37
1	N	150	U	N3-C4	10.96	1.48	1.38
1	N	500	G	N1-C2	10.93	1.46	1.37
1	N	386	C	N1-C6	10.93	1.43	1.37
1	N	1447	A	N7-C5	-10.92	1.32	1.39
1	N	737	C	C1'-N1	10.92	1.65	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	977	A	C6-N1	10.91	1.43	1.35
1	N	1399	C	N3-C4	10.90	1.41	1.33
1	N	129	A	C6-N6	10.90	1.42	1.33
1	N	362	G	N1-C2	10.90	1.46	1.37
1	N	524	G	C2-N3	10.90	1.41	1.32
1	N	1075	U	P-O5'	-10.90	1.48	1.59
1	N	1332	A	N7-C5	-10.87	1.32	1.39
1	N	39	G	C2-N3	10.87	1.41	1.32
1	N	75	G	N1-C2	10.86	1.46	1.37
1	N	585	G	P-O5'	-10.86	1.48	1.59
1	N	848	C	C2-N3	-10.86	1.27	1.35
1	N	814	A	N9-C4	-10.84	1.31	1.37
1	N	149	A	N9-C4	10.83	1.44	1.37
1	N	1021	A	N9-C4	-10.82	1.31	1.37
1	N	213	G	N3-C4	10.82	1.43	1.35
1	N	494	G	N9-C4	10.81	1.46	1.38
1	N	1393	U	O3'-P	-10.81	1.48	1.61
1	N	204	G	C8-N7	-10.80	1.24	1.30
1	N	1423	G	C8-N7	-10.80	1.24	1.30
1	N	980	C	N1-C6	10.79	1.43	1.37
1	N	423	G	C5-C4	10.76	1.45	1.38
1	N	1074	G	C8-N7	-10.75	1.24	1.30
1	N	847	G	C5-C6	-10.73	1.31	1.42
1	N	238	A	C6-N1	10.73	1.43	1.35
1	N	869	G	N7-C5	-10.73	1.32	1.39
1	N	359	G	N3-C4	-10.72	1.27	1.35
1	N	303	A	N7-C5	-10.72	1.32	1.39
1	N	551	U	C2-N3	10.71	1.45	1.37
1	N	1365	G	N7-C5	-10.71	1.32	1.39
1	N	687	A	N7-C5	-10.71	1.32	1.39
1	N	353	A	N9-C4	-10.70	1.31	1.37
1	N	647	C	N1-C6	10.69	1.43	1.37
1	N	701	U	C2-N3	10.69	1.45	1.37
1	N	437	U	C2-N3	10.67	1.45	1.37
1	N	1204	A	N9-C4	-10.66	1.31	1.37
1	N	23	C	N3-C4	10.64	1.41	1.33
1	N	1156	G	N7-C5	-10.64	1.32	1.39
1	N	1197	A	N7-C5	-10.63	1.32	1.39
1	N	842	U	N3-C4	10.63	1.48	1.38
1	N	335	C	N1-C6	10.62	1.43	1.37
1	N	725	G	C6-N1	10.62	1.47	1.39
1	N	35	G	C2-N3	10.62	1.41	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1489	G	C6-N1	10.62	1.47	1.39
1	N	183	C	C2-N3	10.61	1.44	1.35
1	N	515	G	C8-N7	-10.61	1.24	1.30
1	N	1221	G	C5-C4	10.61	1.45	1.38
1	N	1187	G	C8-N7	-10.61	1.24	1.30
1	N	245	U	C5'-C4'	10.60	1.64	1.51
1	N	729	A	P-O5'	-10.60	1.49	1.59
1	N	433	G	C8-N7	-10.59	1.24	1.30
1	N	901	A	C8-N7	-10.59	1.24	1.31
1	N	1373	G	C2'-C1'	-10.59	1.41	1.53
1	N	45	G	C8-N7	10.58	1.37	1.30
1	N	962	C	N1-C6	10.57	1.43	1.37
1	N	375	U	C4-C5	-10.57	1.34	1.43
1	N	1172	C	N1-C6	10.57	1.43	1.37
1	N	1186	G	N7-C5	-10.56	1.32	1.39
1	N	439	U	C2-N3	10.56	1.45	1.37
1	N	1225	A	N7-C5	-10.55	1.32	1.39
1	N	508	U	C2-N3	10.55	1.45	1.37
1	N	530	G	N1-C2	10.54	1.46	1.37
1	N	777	A	N9-C4	10.54	1.44	1.37
1	N	139	A	N3-C4	-10.53	1.28	1.34
1	N	296	U	C2-N3	10.53	1.45	1.37
1	N	93	U	P-O5'	-10.53	1.49	1.59
1	N	273	U	O3'-P	-10.53	1.48	1.61
1	N	925	G	N7-C5	-10.53	1.32	1.39
1	N	801	U	C4-C5	10.52	1.53	1.43
1	N	337	G	N7-C5	-10.51	1.32	1.39
1	N	147	G	N9-C8	10.50	1.45	1.37
1	N	1512	U	C2-N3	10.47	1.45	1.37
1	N	920	U	O3'-P	-10.47	1.48	1.61
1	N	159	G	C2-N3	10.46	1.41	1.32
1	N	251	G	N7-C5	-10.46	1.32	1.39
1	N	278	G	N9-C4	10.46	1.46	1.38
1	N	1519	A	C6-N1	10.46	1.42	1.35
1	N	1299	A	N3-C4	-10.45	1.28	1.34
1	N	186	C	N1-C6	10.45	1.43	1.37
1	N	984	C	C4-N4	10.45	1.43	1.33
1	N	1198	G	N9-C8	10.44	1.45	1.37
1	N	690	G	C6-N1	10.44	1.46	1.39
1	N	1014	A	C3'-C2'	-10.42	1.41	1.52
1	N	816	A	C6-N1	10.41	1.42	1.35
1	N	261	U	C2-N3	10.41	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1486	G	C2'-C1'	-10.41	1.42	1.53
1	N	32	A	C6-N6	10.40	1.42	1.33
1	N	453	G	C2-N3	10.40	1.41	1.32
1	N	761	G	N9-C8	10.40	1.45	1.37
1	N	867	G	C5-C4	10.40	1.45	1.38
1	N	457	G	N9-C8	10.40	1.45	1.37
1	N	1228	C	C4-N4	10.40	1.43	1.33
1	N	305	G	O3'-P	-10.39	1.48	1.61
1	N	1109	C	O3'-P	-10.39	1.48	1.61
1	N	1423	G	N1-C2	10.39	1.46	1.37
1	N	1392	G	N7-C5	-10.39	1.33	1.39
1	N	675	A	N9-C4	10.38	1.44	1.37
1	N	1028	C	N3-C4	10.39	1.41	1.33
1	N	749	A	C6-N6	10.38	1.42	1.33
1	N	501	C	N1-C6	10.38	1.43	1.37
1	N	846	G	C8-N7	-10.38	1.24	1.30
1	N	523	A	N7-C5	-10.36	1.33	1.39
1	N	454	G	N7-C5	-10.34	1.33	1.39
1	N	319	G	N7-C5	-10.34	1.33	1.39
1	N	468	A	N3-C4	-10.33	1.28	1.34
1	N	724	G	C5-C4	-10.33	1.31	1.38
1	N	1346	A	P-O5'	-10.33	1.49	1.59
1	N	553	A	C6-N6	10.30	1.42	1.33
1	N	680	C	N1-C6	10.30	1.43	1.37
1	N	1195	C	N3-C4	10.30	1.41	1.33
1	N	1247	U	P-O5'	-10.29	1.49	1.59
1	N	908	A	C8-N7	-10.29	1.24	1.31
1	N	1365	G	C8-N7	-10.29	1.24	1.30
1	N	1375	A	N7-C5	-10.29	1.33	1.39
1	N	336	A	C5-C4	10.29	1.46	1.38
1	N	715	A	C5-C4	10.28	1.46	1.38
1	N	520	A	N7-C5	-10.26	1.33	1.39
1	N	278	G	N9-C8	-10.25	1.30	1.37
1	N	199	A	N7-C5	-10.25	1.33	1.39
1	N	228	A	C8-N7	-10.24	1.24	1.31
1	N	865	A	C5-C4	10.23	1.46	1.38
1	N	673	A	C8-N7	-10.23	1.24	1.31
1	N	1130	A	C5-C4	10.23	1.46	1.38
1	N	1178	G	C6-N1	10.23	1.46	1.39
1	N	1395	C	O3'-P	-10.23	1.48	1.61
1	N	1531	A	C2'-C1'	-10.22	1.42	1.53
1	N	447	G	N7-C5	-10.22	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1209	C	N1-C6	10.22	1.43	1.37
1	N	1170	A	N1-C2	10.21	1.43	1.34
1	N	1489	G	N1-C2	10.22	1.46	1.37
1	N	629	A	C6-N6	10.20	1.42	1.33
1	N	1334	G	N7-C5	-10.20	1.33	1.39
1	N	9	G	C2-N3	10.18	1.40	1.32
1	N	604	G	N1-C2	10.18	1.45	1.37
1	N	1501	C	N3-C4	10.17	1.41	1.33
1	N	1394	A	C4'-C3'	10.17	1.64	1.53
1	N	1204	A	N7-C5	-10.16	1.33	1.39
1	N	936	C	P-O5'	-10.14	1.49	1.59
1	N	238	A	C2'-C1'	-10.14	1.42	1.53
1	N	1432	G	C4'-C3'	10.14	1.64	1.53
1	N	354	G	C6-N1	10.13	1.46	1.39
1	N	1322	C	N3-C4	10.12	1.41	1.33
1	N	710	G	C2-N3	10.12	1.40	1.32
1	N	1473	G	C4'-C3'	10.12	1.64	1.53
1	N	384	G	N9-C4	-10.10	1.29	1.38
1	N	782	A	N7-C5	-10.10	1.33	1.39
1	N	202	G	N7-C5	-10.09	1.33	1.39
1	N	635	A	C5-C4	10.09	1.45	1.38
1	N	482	A	C8-N7	-10.08	1.24	1.31
1	N	496	A	N7-C5	-10.07	1.33	1.39
1	N	1298	U	N3-C4	10.06	1.47	1.38
1	N	776	G	N9-C8	-10.05	1.30	1.37
1	N	896	C	C4-N4	10.05	1.43	1.33
1	N	327	A	N3-C4	-10.05	1.28	1.34
1	N	575	G	N1-C2	10.05	1.45	1.37
1	N	485	U	C3'-C2'	10.04	1.64	1.52
1	N	186	C	N3-C4	10.01	1.41	1.33
1	N	1276	G	N7-C5	-10.01	1.33	1.39
1	N	196	A	N9-C4	-10.00	1.31	1.37
1	N	569	C	N3-C4	10.00	1.41	1.33
1	N	832	G	C6-N1	9.99	1.46	1.39
1	N	814	A	N7-C5	-9.98	1.33	1.39
1	N	670	G	C2-N3	-9.97	1.24	1.32
1	N	360	G	C8-N7	-9.97	1.25	1.30
1	N	1459	G	N9-C8	-9.97	1.30	1.37
1	N	345	C	N3-C4	9.96	1.41	1.33
1	N	1207	G	C6-N1	9.96	1.46	1.39
1	N	1355	G	N1-C2	9.95	1.45	1.37
1	N	867	G	P-O5'	-9.95	1.49	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1232	U	C2-N3	9.95	1.44	1.37
1	N	667	G	C8-N7	-9.94	1.25	1.30
1	N	42	G	N1-C2	9.94	1.45	1.37
1	N	127	G	N7-C5	-9.94	1.33	1.39
1	N	391	G	N1-C2	9.93	1.45	1.37
1	N	5	U	C2'-C1'	-9.93	1.42	1.53
1	N	100	G	N3-C4	-9.93	1.28	1.35
1	N	1064	G	C2'-C1'	-9.93	1.42	1.53
1	N	412	A	C6-N6	9.91	1.41	1.33
1	N	768	A	C2'-C1'	-9.91	1.42	1.53
1	N	598	U	N3-C4	9.91	1.47	1.38
1	N	276	G	C6-N1	9.90	1.46	1.39
1	N	191	G	C5-C6	-9.90	1.32	1.42
1	N	196	A	C5'-C4'	9.90	1.63	1.51
1	N	453	G	C5'-C4'	9.90	1.63	1.51
1	N	469	C	C4-C5	9.90	1.50	1.43
1	N	338	A	C5'-C4'	9.90	1.63	1.51
1	N	1256	A	N7-C5	-9.90	1.33	1.39
1	N	193	C	N3-C4	9.89	1.40	1.33
1	N	922	G	N7-C5	-9.89	1.33	1.39
1	N	1389	C	N3-C4	9.89	1.40	1.33
1	N	633	G	N1-C2	9.88	1.45	1.37
1	N	1205	U	C3'-C2'	9.88	1.63	1.52
1	N	389	A	N9-C8	-9.88	1.29	1.37
1	N	694	A	N9-C4	-9.87	1.31	1.37
1	N	1502	A	N9-C8	-9.87	1.29	1.37
1	N	525	C	N1-C6	9.87	1.43	1.37
1	N	574	A	C5-C4	9.87	1.45	1.38
1	N	903	G	N7-C5	-9.86	1.33	1.39
1	N	246	A	N9-C4	-9.85	1.31	1.37
1	N	963	G	N7-C5	-9.85	1.33	1.39
1	N	1130	A	C6-N6	9.85	1.41	1.33
1	N	1392	G	C8-N7	-9.84	1.25	1.30
1	N	351	G	N9-C4	-9.84	1.30	1.38
1	N	913	A	C6-N6	9.84	1.41	1.33
1	N	329	A	N9-C4	9.84	1.43	1.37
1	N	1135	U	C2-N3	9.84	1.44	1.37
1	N	350	G	C8-N7	-9.83	1.25	1.30
1	N	1077	G	C6-N1	9.83	1.46	1.39
1	N	669	G	N1-C2	9.83	1.45	1.37
1	N	579	A	N7-C5	-9.82	1.33	1.39
1	N	452	A	N7-C5	-9.81	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	349	A	C2'-C1'	-9.81	1.42	1.53
1	N	498	A	N7-C5	-9.81	1.33	1.39
1	N	906	A	C6-N6	9.81	1.41	1.33
1	N	523	A	C5'-C4'	9.80	1.63	1.51
1	N	678	U	C2-N3	9.79	1.44	1.37
1	N	545	C	N3-C4	9.79	1.40	1.33
1	N	1253	G	N1-C2	9.78	1.45	1.37
1	N	281	G	N7-C5	-9.77	1.33	1.39
1	N	1129	C	N3-C4	9.77	1.40	1.33
1	N	1432	G	N3-C4	-9.77	1.28	1.35
1	N	329	A	N7-C5	-9.77	1.33	1.39
1	N	481	G	C2-N3	9.77	1.40	1.32
1	N	1228	C	N3-C4	9.76	1.40	1.33
1	N	324	G	N7-C5	-9.76	1.33	1.39
1	N	914	A	C5-C6	-9.76	1.32	1.41
1	N	951	G	C8-N7	-9.76	1.25	1.30
1	N	1119	C	C4-N4	9.76	1.42	1.33
1	N	132	C	C4-C5	9.75	1.50	1.43
1	N	609	A	N3-C4	9.75	1.40	1.34
1	N	1360	A	N7-C5	-9.75	1.33	1.39
1	N	1316	G	C8-N7	-9.74	1.25	1.30
1	N	860	A	N7-C5	-9.74	1.33	1.39
1	N	596	A	N3-C4	9.74	1.40	1.34
1	N	936	C	C4-N4	9.74	1.42	1.33
1	N	497	G	N7-C5	-9.73	1.33	1.39
1	N	428	G	P-O5'	-9.73	1.50	1.59
1	N	1124	G	C8-N7	9.73	1.36	1.30
1	N	63	C	O3'-P	-9.73	1.49	1.61
1	N	821	G	C5-C4	9.73	1.45	1.38
1	N	1244	G	N1-C2	9.72	1.45	1.37
1	N	589	U	O3'-P	-9.72	1.49	1.61
1	N	1237	C	N1-C6	9.71	1.43	1.37
1	N	259	G	N7-C5	-9.71	1.33	1.39
1	N	903	G	N3-C4	-9.71	1.28	1.35
1	N	829	G	N7-C5	-9.70	1.33	1.39
1	N	1163	A	N9-C4	-9.70	1.32	1.37
1	N	129	A	N9-C4	-9.70	1.32	1.37
1	N	248	C	C4-N4	9.70	1.42	1.33
1	N	710	G	C5-C4	9.69	1.45	1.38
1	N	750	C	P-O5'	-9.69	1.50	1.59
1	N	1233	G	C6-N1	9.69	1.46	1.39
1	N	503	C	C2'-C1'	-9.68	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	211	G	C2'-C1'	-9.68	1.42	1.53
1	N	1290	G	N3-C4	-9.68	1.28	1.35
1	N	318	G	C5-C4	9.68	1.45	1.38
1	N	773	G	N9-C8	-9.67	1.31	1.37
1	N	121	U	N1-C2	-9.66	1.29	1.38
1	N	274	A	C6-N1	9.66	1.42	1.35
1	N	513	C	N3-C4	9.66	1.40	1.33
1	N	767	A	P-O5'	-9.65	1.50	1.59
1	N	297	G	C2'-C1'	-9.65	1.42	1.53
1	N	1260	G	C8-N7	-9.65	1.25	1.30
1	N	742	G	N7-C5	-9.65	1.33	1.39
1	N	775	G	N1-C2	9.65	1.45	1.37
1	N	885	G	N9-C8	9.65	1.44	1.37
1	N	197	A	C6-N1	9.64	1.42	1.35
1	N	1136	C	N1-C6	-9.64	1.31	1.37
1	N	106	C	C4-N4	9.64	1.42	1.33
1	N	145	G	C4'-C3'	9.62	1.63	1.53
1	N	956	U	C3'-O3'	9.62	1.55	1.42
1	N	947	G	C2'-C1'	-9.61	1.42	1.53
1	N	1097	C	N1-C6	9.61	1.43	1.37
1	N	449	G	C6-N1	9.61	1.46	1.39
1	N	281	G	N3-C4	9.60	1.42	1.35
1	N	1433	A	C8-N7	-9.60	1.24	1.31
1	N	983	A	C5-C4	9.59	1.45	1.38
1	N	1487	G	N1-C2	9.59	1.45	1.37
1	N	575	G	N7-C5	-9.58	1.33	1.39
1	N	996	A	C2-N3	9.58	1.42	1.33
1	N	833	G	C2-N3	9.57	1.40	1.32
1	N	1405	G	N1-C2	9.57	1.45	1.37
1	N	610	U	C5-C6	9.56	1.42	1.34
1	N	886	G	N9-C8	9.56	1.44	1.37
1	N	151	A	C8-N7	-9.55	1.24	1.31
1	N	608	A	N7-C5	-9.55	1.33	1.39
1	N	101	A	C2-N3	9.55	1.42	1.33
1	N	480	U	O3'-P	-9.54	1.49	1.61
1	N	432	A	N9-C4	9.54	1.43	1.37
1	N	497	G	C5-C4	9.53	1.45	1.38
1	N	1442	G	C8-N7	-9.53	1.25	1.30
1	N	570	G	P-O5'	9.53	1.69	1.59
1	N	1408	A	N9-C4	9.53	1.43	1.37
1	N	1524	C	N1-C6	9.52	1.42	1.37
1	N	1230	C	C4-N4	9.52	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1108	G	N7-C5	-9.52	1.33	1.39
1	N	1387	G	C2-N3	9.51	1.40	1.32
1	N	203	G	C5-C4	-9.50	1.31	1.38
1	N	829	G	N9-C8	-9.50	1.31	1.37
1	N	1527	U	N1-C2	9.50	1.47	1.38
1	N	863	U	C2-N3	9.48	1.44	1.37
1	N	139	A	N7-C5	-9.48	1.33	1.39
1	N	446	G	N1-C2	9.48	1.45	1.37
1	N	1074	G	N1-C2	9.47	1.45	1.37
1	N	1236	A	C2'-C1'	-9.47	1.43	1.53
1	N	1287	A	C8-N7	-9.47	1.25	1.31
1	N	1471	U	N1-C6	9.47	1.46	1.38
1	N	1387	G	N9-C8	-9.47	1.31	1.37
1	N	574	A	C6-N6	9.46	1.41	1.33
1	N	1519	A	N9-C8	9.46	1.45	1.37
1	N	1520	C	N3-C4	9.46	1.40	1.33
1	N	397	A	C6-N1	9.46	1.42	1.35
1	N	589	U	N1-C6	9.46	1.46	1.38
1	N	15	G	O3'-P	-9.45	1.49	1.61
1	N	243	A	C3'-C2'	9.45	1.63	1.52
1	N	761	G	N9-C4	-9.45	1.30	1.38
1	N	351	G	N7-C5	-9.45	1.33	1.39
1	N	1209	C	N3-C4	9.45	1.40	1.33
1	N	55	A	N7-C5	-9.44	1.33	1.39
1	N	447	G	C6-N1	9.44	1.46	1.39
1	N	180	U	C2-N3	9.44	1.44	1.37
1	N	1048	G	N3-C4	-9.44	1.28	1.35
1	N	746	A	N3-C4	9.43	1.40	1.34
1	N	735	C	P-O5'	-9.42	1.50	1.59
1	N	929	G	C6-N1	9.41	1.46	1.39
1	N	1297	G	N1-C2	9.41	1.45	1.37
1	N	474	G	P-O5'	-9.40	1.50	1.59
1	N	1353	G	N1-C2	9.40	1.45	1.37
1	N	1419	G	N9-C8	9.40	1.44	1.37
1	N	215	C	N1-C6	9.40	1.42	1.37
1	N	1067	A	N9-C4	-9.39	1.32	1.37
1	N	1127	G	N3-C4	-9.38	1.28	1.35
1	N	1109	C	N1-C6	9.37	1.42	1.37
1	N	129	A	C5-C4	9.36	1.45	1.38
1	N	1529	G	C2-N3	9.36	1.40	1.32
1	N	613	C	C4-C5	-9.35	1.35	1.43
1	N	321	A	C2'-C1'	-9.35	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1518	A	N3-C4	9.35	1.40	1.34
1	N	974	A	N7-C5	-9.34	1.33	1.39
1	N	406	G	C6-N1	9.33	1.46	1.39
1	N	1041	G	C5'-C4'	9.33	1.62	1.51
1	N	1383	C	N1-C6	9.33	1.42	1.37
1	N	1468	A	N9-C8	-9.33	1.30	1.37
1	N	90	C	N3-C4	9.33	1.40	1.33
1	N	267	C	C5-C6	-9.33	1.26	1.34
1	N	1003	G	C6-N1	9.33	1.46	1.39
1	N	460	A	N7-C5	-9.32	1.33	1.39
1	N	1501	C	C1'-N1	9.32	1.62	1.48
1	N	1358	U	C3'-C2'	9.32	1.63	1.52
1	N	30	U	C2-N3	9.31	1.44	1.37
1	N	126	G	C2-N3	9.31	1.40	1.32
1	N	908	A	N9-C4	9.31	1.43	1.37
1	N	582	C	N3-C4	9.30	1.40	1.33
1	N	361	G	C6-N1	9.30	1.46	1.39
1	N	613	C	C2-N3	9.30	1.43	1.35
1	N	145	G	C2-N2	9.30	1.43	1.34
1	N	775	G	C3'-C2'	9.30	1.63	1.52
1	N	998	C	N3-C4	9.30	1.40	1.33
1	N	1382	C	C4-N4	9.30	1.42	1.33
1	N	206	C	C2-N3	9.29	1.43	1.35
1	N	696	A	C5-C4	9.29	1.45	1.38
1	N	12	U	C2-N3	9.29	1.44	1.37
1	N	1023	U	C2-N3	9.29	1.44	1.37
1	N	1474	U	N3-C4	9.28	1.46	1.38
1	N	794	A	C2'-C1'	-9.27	1.43	1.53
1	N	941	G	C2-N2	9.27	1.43	1.34
1	N	1383	C	N3-C4	9.26	1.40	1.33
1	N	1500	A	C6-N6	9.26	1.41	1.33
1	N	1522	U	C5'-C4'	9.26	1.62	1.51
1	N	107	G	C2-N3	9.25	1.40	1.32
1	N	156	C	N1-C6	-9.25	1.31	1.37
1	N	260	G	N9-C8	-9.25	1.31	1.37
1	N	207	C	C3'-C2'	9.24	1.63	1.52
1	N	1081	A	C6-N6	9.24	1.41	1.33
1	N	506	G	C5'-C4'	9.24	1.62	1.51
1	N	5	U	C5'-C4'	9.23	1.62	1.51
1	N	464	U	O3'-P	-9.23	1.50	1.61
1	N	966	G	C5-C4	9.23	1.44	1.38
1	N	1468	A	N9-C4	-9.22	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	465	A	N7-C5	-9.22	1.33	1.39
1	N	1000	A	N9-C4	-9.22	1.32	1.37
1	N	1289	A	N7-C5	-9.21	1.33	1.39
1	N	745	G	C6-N1	9.21	1.46	1.39
1	N	1131	G	N1-C2	9.21	1.45	1.37
1	N	271	C	C2-N3	9.20	1.43	1.35
1	N	555	U	C2-N3	9.21	1.44	1.37
1	N	637	C	N3-C4	9.20	1.40	1.33
1	N	570	G	C2-N3	9.20	1.40	1.32
1	N	818	G	C5-C4	9.20	1.44	1.38
1	N	683	G	N1-C2	9.18	1.45	1.37
1	N	454	G	N9-C4	-9.18	1.30	1.38
1	N	932	C	C5'-C4'	9.18	1.62	1.51
1	N	226	G	C2-N3	9.18	1.40	1.32
1	N	1433	A	N7-C5	-9.18	1.33	1.39
1	N	1515	G	N9-C4	9.18	1.45	1.38
1	N	398	U	N1-C6	9.18	1.46	1.38
1	N	985	C	C3'-C2'	9.18	1.63	1.52
1	N	1225	A	C5-C4	9.18	1.45	1.38
1	N	1519	A	N7-C5	9.18	1.44	1.39
1	N	441	A	C5-C4	9.17	1.45	1.38
1	N	744	C	C4-N4	9.17	1.42	1.33
1	N	1211	U	C2-N3	9.17	1.44	1.37
1	N	1288	A	C6-N6	9.17	1.41	1.33
1	N	1268	G	C6-N1	9.16	1.46	1.39
1	N	1180	A	C6-N1	9.16	1.42	1.35
1	N	717	U	C2-N3	9.16	1.44	1.37
1	N	1146	A	C5-C4	9.16	1.45	1.38
1	N	61	G	N3-C4	-9.16	1.29	1.35
1	N	315	A	C6-N6	9.15	1.41	1.33
1	N	200	G	C2-N3	9.15	1.40	1.32
1	N	509	A	C5'-C4'	9.15	1.62	1.51
1	N	194	C	N3-C4	9.15	1.40	1.33
1	N	1243	C	N1-C6	9.15	1.42	1.37
1	N	435	A	P-O5'	-9.15	1.50	1.59
1	N	1387	G	N7-C5	-9.15	1.33	1.39
1	N	635	A	C2'-C1'	-9.15	1.43	1.53
1	N	117	G	C6-N1	9.14	1.46	1.39
1	N	227	G	C2-N3	9.14	1.40	1.32
1	N	926	G	C5'-C4'	9.14	1.62	1.51
1	N	424	G	C8-N7	9.13	1.36	1.30
1	N	642	A	C6-N6	9.13	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	74	A	C6-N1	9.13	1.42	1.35
1	N	555	U	N3-C4	9.12	1.46	1.38
1	N	1058	G	N7-C5	-9.12	1.33	1.39
1	N	230	G	N7-C5	-9.12	1.33	1.39
1	N	361	G	N7-C5	-9.12	1.33	1.39
1	N	803	G	C2-N3	9.10	1.40	1.32
1	N	950	U	C2-N3	9.09	1.44	1.37
1	N	1034	G	N9-C8	9.09	1.44	1.37
1	N	370	C	P-O5'	-9.09	1.50	1.59
1	N	59	A	N9-C4	-9.07	1.32	1.37
1	N	102	G	C3'-C2'	-9.07	1.42	1.52
1	N	211	G	N1-C2	9.07	1.45	1.37
1	N	313	A	C5'-C4'	9.07	1.62	1.51
1	N	2	A	N7-C5	-9.07	1.33	1.39
1	N	1236	A	C8-N7	-9.07	1.25	1.31
1	N	1324	A	N9-C8	9.07	1.45	1.37
1	N	271	C	N3-C4	9.06	1.40	1.33
1	N	675	A	C2'-C1'	-9.05	1.43	1.53
1	N	1269	A	C2-N3	9.05	1.41	1.33
1	N	409	U	C2-N3	9.05	1.44	1.37
1	N	1122	U	C2-N3	9.04	1.44	1.37
1	N	703	G	N9-C8	9.04	1.44	1.37
1	N	630	A	C6-N6	9.04	1.41	1.33
1	N	278	G	C2-N3	9.04	1.40	1.32
1	N	722	G	C8-N7	-9.03	1.25	1.30
1	N	1107	C	C4'-C3'	9.03	1.63	1.53
1	N	954	G	C6-N1	9.03	1.45	1.39
1	N	679	C	C4-C5	9.02	1.50	1.43
1	N	287	U	C2-N3	9.01	1.44	1.37
1	N	538	G	C6-N1	9.01	1.45	1.39
1	N	665	A	N3-C4	9.01	1.40	1.34
1	N	1343	G	C2-N3	9.01	1.40	1.32
1	N	1041	G	N3-C4	-9.01	1.29	1.35
1	N	2	A	N9-C4	9.00	1.43	1.37
1	N	350	G	N7-C5	-8.99	1.33	1.39
1	N	594	U	N1-C2	-8.99	1.30	1.38
1	N	1525	G	C3'-O3'	8.99	1.54	1.42
1	N	906	A	N9-C4	-8.99	1.32	1.37
1	N	189	A	N7-C5	-8.97	1.33	1.39
1	N	337	G	P-O5'	8.97	1.68	1.59
1	N	923	A	C2'-C1'	-8.97	1.43	1.53
1	N	1022	A	P-O5'	8.97	1.68	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1343	G	N1-C2	8.97	1.45	1.37
1	N	785	G	N3-C4	-8.97	1.29	1.35
1	N	1339	A	C4'-C3'	8.97	1.63	1.53
1	N	238	A	C6-N6	8.97	1.41	1.33
1	N	420	U	C2-N3	8.97	1.44	1.37
1	N	597	G	N1-C2	8.96	1.45	1.37
1	N	687	A	N3-C4	-8.96	1.29	1.34
1	N	59	A	C8-N7	-8.96	1.25	1.31
1	N	664	G	C5-C4	-8.96	1.32	1.38
1	N	1274	A	C6-N6	8.95	1.41	1.33
1	N	44	A	N9-C4	-8.94	1.32	1.37
1	N	877	G	C8-N7	-8.94	1.25	1.30
1	N	433	G	P-O5'	-8.93	1.50	1.59
1	N	955	U	C2-N3	8.93	1.44	1.37
1	N	1050	G	C6-N1	8.93	1.45	1.39
1	N	1338	G	C4'-O4'	8.93	1.57	1.45
1	N	1233	G	N7-C5	-8.93	1.33	1.39
1	N	1261	A	C8-N7	-8.93	1.25	1.31
1	N	1420	U	N3-C4	8.92	1.46	1.38
1	N	1287	A	N3-C4	-8.92	1.29	1.34
1	N	1370	G	N9-C8	8.91	1.44	1.37
1	N	826	C	N3-C4	8.91	1.40	1.33
1	N	783	C	C4-N4	8.90	1.42	1.33
1	N	866	C	C5'-C4'	8.90	1.62	1.51
1	N	942	G	C2-N3	8.90	1.39	1.32
1	N	1317	C	N3-C4	8.90	1.40	1.33
1	N	1213	A	C8-N7	-8.89	1.25	1.31
1	N	316	C	C4-C5	8.89	1.50	1.43
1	N	1504	G	N1-C2	8.89	1.44	1.37
1	N	277	C	O3'-P	-8.89	1.50	1.61
1	N	490	C	N3-C4	8.89	1.40	1.33
1	N	1260	G	N7-C5	-8.88	1.33	1.39
1	N	404	G	C8-N7	-8.88	1.25	1.30
1	N	91	U	C4'-C3'	8.88	1.62	1.53
1	N	305	G	C6-N1	8.88	1.45	1.39
1	N	753	A	C6-N6	8.87	1.41	1.33
1	N	1287	A	N7-C5	-8.86	1.33	1.39
1	N	604	G	C2'-C1'	-8.86	1.43	1.53
1	N	1132	C	C4'-C3'	8.86	1.62	1.53
1	N	915	A	C8-N7	-8.86	1.25	1.31
1	N	1454	G	N1-C2	8.86	1.44	1.37
1	N	346	G	N7-C5	-8.85	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	451	A	C6-N1	8.85	1.41	1.35
1	N	1423	G	N9-C8	8.85	1.44	1.37
1	N	1416	G	N3-C4	8.85	1.41	1.35
1	N	702	A	C6-N6	8.84	1.41	1.33
1	N	1301	U	N3-C4	8.84	1.46	1.38
1	N	1394	A	C6-N6	8.84	1.41	1.33
1	N	1514	G	N9-C8	8.84	1.44	1.37
1	N	560	A	C6-N1	8.84	1.41	1.35
1	N	1275	A	C5'-C4'	8.84	1.61	1.51
1	N	1446	A	N7-C5	8.84	1.44	1.39
1	N	1014	A	C6-N1	8.83	1.41	1.35
1	N	558	G	N7-C5	-8.83	1.33	1.39
1	N	973	G	N9-C8	8.83	1.44	1.37
1	N	1215	G	C5-C4	8.83	1.44	1.38
1	N	44	A	C5'-C4'	8.82	1.61	1.51
1	N	1086	U	C2-N3	8.82	1.44	1.37
1	N	116	A	N3-C4	-8.82	1.29	1.34
1	N	985	C	P-O5'	-8.82	1.50	1.59
1	N	761	G	C4'-C3'	-8.82	1.43	1.53
1	N	1080	A	C6-N6	8.82	1.41	1.33
1	N	694	A	N7-C5	-8.81	1.33	1.39
1	N	1288	A	P-O5'	-8.81	1.50	1.59
1	N	1306	A	N1-C2	-8.81	1.26	1.34
1	N	64	G	N9-C4	-8.81	1.30	1.38
1	N	717	U	C5'-C4'	8.81	1.61	1.51
1	N	313	A	N7-C5	-8.81	1.33	1.39
1	N	1000	A	N9-C8	8.81	1.44	1.37
1	N	1309	G	C2-N3	8.81	1.39	1.32
1	N	1519	A	C4'-O4'	8.81	1.57	1.45
1	N	1150	A	C6-N1	8.81	1.41	1.35
1	N	1413	A	C6-N1	8.80	1.41	1.35
1	N	527	G	N7-C5	-8.80	1.33	1.39
1	N	124	C	C4-N4	8.79	1.41	1.33
1	N	1220	G	C3'-C2'	8.79	1.62	1.52
1	N	1009	U	N3-C4	8.79	1.46	1.38
1	N	347	G	N7-C5	-8.79	1.33	1.39
1	N	1275	A	N9-C4	-8.79	1.32	1.37
1	N	1301	U	C2-N3	8.79	1.44	1.37
1	N	199	A	N9-C4	8.79	1.43	1.37
1	N	499	A	N7-C5	-8.79	1.33	1.39
1	N	1137	C	C4-C5	8.77	1.50	1.43
1	N	509	A	N7-C5	-8.77	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1497	G	N9-C8	-8.77	1.31	1.37
1	N	52	C	N1-C6	8.76	1.42	1.37
1	N	123	U	O3'-P	-8.76	1.50	1.61
1	N	1154	G	C2-N2	8.76	1.43	1.34
1	N	1027	C	N1-C6	8.75	1.42	1.37
1	N	433	G	N9-C4	-8.74	1.30	1.38
1	N	604	G	P-O5'	-8.74	1.51	1.59
1	N	872	A	C4'-C3'	8.74	1.62	1.53
1	N	13	U	C4-C5	8.74	1.51	1.43
1	N	156	C	P-O5'	-8.74	1.51	1.59
1	N	1392	G	C2-N3	8.74	1.39	1.32
1	N	844	G	N3-C4	-8.74	1.29	1.35
1	N	1455	G	C5-C6	-8.73	1.33	1.42
1	N	1453	G	N1-C2	8.73	1.44	1.37
1	N	1164	G	N7-C5	-8.73	1.34	1.39
1	N	77	A	N3-C4	-8.73	1.29	1.34
1	N	1044	A	N3-C4	8.73	1.40	1.34
1	N	275	G	N7-C5	-8.72	1.34	1.39
1	N	55	A	C6-N6	8.72	1.41	1.33
1	N	408	A	N3-C4	8.72	1.40	1.34
1	N	1052	U	N3-C4	8.72	1.46	1.38
1	N	1282	C	N3-C4	8.72	1.40	1.33
1	N	269	C	C2'-C1'	-8.71	1.43	1.53
1	N	348	G	C8-N7	8.71	1.36	1.30
1	N	922	G	C4'-C3'	8.71	1.62	1.53
1	N	1326	U	C2-N3	8.71	1.43	1.37
1	N	176	C	P-O5'	-8.71	1.51	1.59
1	N	356	A	C5-C4	-8.71	1.32	1.38
1	N	1164	G	C5-C6	-8.71	1.33	1.42
1	N	1222	G	N3-C4	8.71	1.41	1.35
1	N	177	G	N7-C5	-8.70	1.34	1.39
1	N	1074	G	N7-C5	-8.70	1.34	1.39
1	N	1156	G	N1-C2	8.70	1.44	1.37
1	N	27	G	C6-N1	8.69	1.45	1.39
1	N	944	G	C2-N2	8.69	1.43	1.34
1	N	1358	U	C1'-N1	8.69	1.61	1.48
1	N	316	C	N1-C6	-8.68	1.31	1.37
1	N	1302	C	C3'-C2'	-8.68	1.43	1.52
1	N	741	G	C2'-C1'	-8.68	1.43	1.53
1	N	154	U	C2-N3	8.68	1.43	1.37
1	N	210	C	C2'-C1'	-8.68	1.43	1.53
1	N	3	A	C8-N7	-8.67	1.25	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1326	U	C2'-C1'	-8.67	1.43	1.53
1	N	608	A	N9-C4	8.66	1.43	1.37
1	N	616	G	C6-N1	8.66	1.45	1.39
1	N	265	G	C6-N1	8.66	1.45	1.39
1	N	993	G	N9-C4	-8.66	1.31	1.38
1	N	1252	A	C6-N6	8.66	1.40	1.33
1	N	210	C	C5'-C4'	8.65	1.61	1.51
1	N	988	G	N7-C5	-8.65	1.34	1.39
1	N	716	A	N9-C8	-8.65	1.30	1.37
1	N	728	A	C5-C4	8.65	1.44	1.38
1	N	459	A	C1'-N9	8.65	1.61	1.48
1	N	1051	C	C4'-O4'	8.64	1.56	1.45
1	N	198	G	C4'-C3'	8.64	1.62	1.53
1	N	1480	A	C6-N1	8.64	1.41	1.35
1	N	489	C	C2'-C1'	-8.64	1.43	1.53
1	N	1422	G	C5-C4	-8.64	1.32	1.38
1	N	946	A	N3-C4	-8.64	1.29	1.34
1	N	702	A	C5-C4	8.63	1.44	1.38
1	N	1073	U	C2'-C1'	-8.63	1.43	1.53
1	N	149	A	N7-C5	-8.63	1.34	1.39
1	N	1041	G	N1-C2	8.62	1.44	1.37
1	N	1111	A	C6-N6	8.62	1.40	1.33
1	N	1318	A	C8-N7	-8.62	1.25	1.31
1	N	77	A	C6-N6	8.62	1.40	1.33
1	N	1323	G	N1-C2	8.62	1.44	1.37
1	N	1112	C	C4-C5	-8.61	1.36	1.43
1	N	1202	U	C5'-C4'	8.61	1.61	1.51
1	N	784	A	C6-N6	8.61	1.40	1.33
1	N	247	G	C2-N3	8.60	1.39	1.32
1	N	315	A	N9-C8	-8.60	1.30	1.37
1	N	1131	G	C8-N7	-8.60	1.25	1.30
1	N	333	U	N3-C4	8.60	1.46	1.38
1	N	1088	G	C5-C4	8.60	1.44	1.38
1	N	1442	G	N9-C4	8.60	1.44	1.38
1	N	371	A	N7-C5	-8.60	1.34	1.39
1	N	397	A	N9-C4	8.59	1.43	1.37
1	N	1323	G	C2-N2	8.59	1.43	1.34
1	N	155	A	P-O5'	-8.59	1.51	1.59
1	N	501	C	C2-N3	8.59	1.42	1.35
1	N	109	A	C6-N1	8.58	1.41	1.35
1	N	547	A	N9-C4	8.58	1.43	1.37
1	N	1515	G	N1-C2	8.58	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1487	G	C6-N1	8.58	1.45	1.39
1	N	1241	G	N9-C4	-8.57	1.31	1.38
1	N	1324	A	C4'-O4'	8.57	1.56	1.45
1	N	93	U	C5'-C4'	8.57	1.61	1.51
1	N	430	A	N7-C5	-8.57	1.34	1.39
1	N	263	A	C8-N7	-8.57	1.25	1.31
1	N	835	U	N3-C4	8.57	1.46	1.38
1	N	6	G	N1-C2	8.56	1.44	1.37
1	N	448	A	N7-C5	-8.55	1.34	1.39
1	N	557	G	C5-C6	-8.55	1.33	1.42
1	N	1139	G	N7-C5	-8.55	1.34	1.39
1	N	601	G	N7-C5	8.55	1.44	1.39
1	N	1431	A	C6-N6	8.55	1.40	1.33
1	N	146	G	N1-C2	8.55	1.44	1.37
1	N	800	G	C8-N7	8.54	1.36	1.30
1	N	1487	G	P-O5'	8.54	1.68	1.59
1	N	1484	C	C5'-C4'	8.54	1.61	1.51
1	N	700	G	C5-C6	-8.54	1.33	1.42
1	N	1166	G	N3-C4	8.53	1.41	1.35
1	N	866	C	P-O5'	-8.53	1.51	1.59
1	N	1310	G	C8-N7	-8.53	1.25	1.30
1	N	710	G	N1-C2	8.52	1.44	1.37
1	N	595	A	N7-C5	-8.52	1.34	1.39
1	N	517	G	N3-C4	8.52	1.41	1.35
1	N	1187	G	N9-C8	8.52	1.43	1.37
1	N	475	C	C4-N4	8.51	1.41	1.33
1	N	1313	U	C2-N3	8.51	1.43	1.37
1	N	989	U	N1-C6	8.50	1.45	1.38
1	N	172	A	C8-N7	-8.50	1.25	1.31
1	N	1334	G	C2'-C1'	-8.49	1.44	1.53
1	N	1375	A	C6-N6	8.49	1.40	1.33
1	N	602	A	N9-C8	-8.49	1.30	1.37
1	N	35	G	N9-C4	8.48	1.44	1.38
1	N	377	G	C6-N1	8.48	1.45	1.39
1	N	810	C	N3-C4	8.48	1.39	1.33
1	N	1222	G	O3'-P	-8.48	1.50	1.61
1	N	1006	G	N9-C4	-8.47	1.31	1.38
1	N	394	G	N9-C8	8.47	1.43	1.37
1	N	1111	A	N7-C5	-8.47	1.34	1.39
1	N	1398	A	C6-N6	8.46	1.40	1.33
1	N	1482	G	P-O5'	-8.46	1.51	1.59
1	N	1005	A	N9-C4	-8.46	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1171	A	N9-C4	-8.46	1.32	1.37
1	N	1310	G	C2-N2	8.46	1.43	1.34
1	N	505	G	C3'-C2'	-8.45	1.43	1.52
1	N	638	U	P-O5'	-8.46	1.51	1.59
1	N	1243	C	P-O5'	-8.45	1.51	1.59
1	N	1290	G	N7-C5	-8.45	1.34	1.39
1	N	165	G	C5-C4	8.45	1.44	1.38
1	N	467	U	C2-N3	8.45	1.43	1.37
1	N	667	G	N1-C2	8.45	1.44	1.37
1	N	1086	U	C4'-C3'	8.45	1.62	1.53
1	N	1288	A	N9-C4	-8.45	1.32	1.37
1	N	1345	U	N1-C2	-8.45	1.30	1.38
1	N	940	C	O3'-P	-8.44	1.51	1.61
1	N	210	C	C4-N4	8.44	1.41	1.33
1	N	1509	C	N3-C4	8.44	1.39	1.33
1	N	1043	G	C6-N1	8.44	1.45	1.39
1	N	1015	G	C6-N1	8.44	1.45	1.39
1	N	598	U	C2-N3	8.44	1.43	1.37
1	N	1021	A	C5'-C4'	8.44	1.61	1.51
1	N	1058	G	C8-N7	-8.44	1.25	1.30
1	N	300	A	N9-C4	8.43	1.43	1.37
1	N	1253	G	C8-N7	8.43	1.36	1.30
1	N	1276	G	C5-C4	8.43	1.44	1.38
1	N	488	C	C2'-C1'	-8.43	1.44	1.53
1	N	987	G	C1'-N9	8.43	1.61	1.48
1	N	608	A	C6-N6	8.42	1.40	1.33
1	N	924	C	N3-C4	8.42	1.39	1.33
1	N	1142	G	C8-N7	-8.42	1.25	1.30
1	N	424	G	C2'-C1'	-8.42	1.44	1.53
1	N	925	G	N9-C8	8.42	1.43	1.37
1	N	1030	U	C2-N3	8.42	1.43	1.37
1	N	1142	G	N1-C2	8.42	1.44	1.37
1	N	1250	A	C6-N6	8.41	1.40	1.33
1	N	336	A	N7-C5	-8.41	1.34	1.39
1	N	535	A	C6-N6	8.41	1.40	1.33
1	N	871	U	C2'-C1'	-8.41	1.44	1.53
1	N	349	A	N7-C5	-8.41	1.34	1.39
1	N	918	A	N9-C4	-8.41	1.32	1.37
1	N	1164	G	C2-N2	8.40	1.43	1.34
1	N	1306	A	N7-C5	-8.40	1.34	1.39
1	N	923	A	N7-C5	-8.40	1.34	1.39
1	N	647	C	N3-C4	8.40	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1439	G	N9-C8	-8.40	1.31	1.37
1	N	1184	G	N7-C5	-8.39	1.34	1.39
1	N	758	C	O4'-C1'	-8.39	1.30	1.41
1	N	1130	A	N9-C8	-8.39	1.31	1.37
1	N	246	A	N7-C5	-8.39	1.34	1.39
1	N	971	G	N7-C5	-8.39	1.34	1.39
1	N	1422	G	N1-C2	8.38	1.44	1.37
1	N	364	A	N9-C4	8.38	1.42	1.37
1	N	1142	G	C6-N1	8.38	1.45	1.39
1	N	1400	C	N1-C6	8.38	1.42	1.37
1	N	401	C	C2-N3	8.38	1.42	1.35
1	N	791	G	C2-N3	8.38	1.39	1.32
1	N	844	G	C2-N3	8.38	1.39	1.32
1	N	1312	G	N3-C4	-8.38	1.29	1.35
1	N	1425	U	C2-N3	8.38	1.43	1.37
1	N	668	G	N7-C5	-8.37	1.34	1.39
1	N	903	G	C2-N3	8.37	1.39	1.32
1	N	343	U	P-O5'	-8.37	1.51	1.59
1	N	719	C	C4-C5	8.37	1.49	1.43
1	N	1003	G	C2-N3	8.37	1.39	1.32
1	N	866	C	C4'-O4'	-8.37	1.34	1.45
1	N	1122	U	C4'-C3'	-8.37	1.44	1.53
1	N	240	G	C2'-C1'	-8.36	1.44	1.53
1	N	1016	A	C5-C4	8.36	1.44	1.38
1	N	431	A	C6-N6	8.35	1.40	1.33
1	N	255	G	N1-C2	8.35	1.44	1.37
1	N	1224	U	C3'-C2'	-8.35	1.43	1.52
1	N	413	G	C2-N3	8.35	1.39	1.32
1	N	1164	G	C8-N7	8.35	1.35	1.30
1	N	1179	A	N7-C5	-8.35	1.34	1.39
1	N	1236	A	O3'-P	-8.35	1.51	1.61
1	N	1347	G	C5-C4	-8.35	1.32	1.38
1	N	448	A	C5'-C4'	8.35	1.61	1.51
1	N	241	G	N9-C8	8.34	1.43	1.37
1	N	649	A	C6-N6	8.34	1.40	1.33
1	N	894	G	N7-C5	-8.33	1.34	1.39
1	N	223	A	C8-N7	-8.33	1.25	1.31
1	N	558	G	C2-N3	8.33	1.39	1.32
1	N	714	G	C2-N2	8.33	1.42	1.34
1	N	567	G	C8-N7	8.32	1.35	1.30
1	N	1214	C	C4'-C3'	8.32	1.62	1.53
1	N	1283	U	N3-C4	8.31	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	26	A	C6-N6	8.31	1.40	1.33
1	N	413	G	N1-C2	8.31	1.44	1.37
1	N	366	A	C8-N7	-8.30	1.25	1.31
1	N	1311	A	C5-C4	8.30	1.44	1.38
1	N	77	A	C5-C6	-8.30	1.33	1.41
1	N	113	G	N9-C8	8.29	1.43	1.37
1	N	989	U	N1-C2	-8.29	1.31	1.38
1	N	751	U	P-O5'	-8.29	1.51	1.59
1	N	919	A	C6-N6	8.29	1.40	1.33
1	N	964	A	C8-N7	-8.29	1.25	1.31
1	N	1285	A	C2'-C1'	-8.29	1.44	1.53
1	N	53	A	N3-C4	-8.28	1.29	1.34
1	N	801	U	C2-N3	8.28	1.43	1.37
1	N	873	A	N7-C5	-8.28	1.34	1.39
1	N	1462	C	O4'-C1'	-8.28	1.30	1.41
1	N	589	U	C2'-C1'	-8.28	1.44	1.53
1	N	1251	A	N9-C4	8.28	1.42	1.37
1	N	1031	C	C2-N3	8.28	1.42	1.35
1	N	888	G	C4'-C3'	8.27	1.62	1.53
1	N	976	G	N9-C8	8.27	1.43	1.37
1	N	1447	A	C6-N6	8.27	1.40	1.33
1	N	925	G	O3'-P	-8.27	1.51	1.61
1	N	1322	C	C4'-C3'	8.27	1.62	1.53
1	N	102	G	N9-C4	-8.26	1.31	1.38
1	N	635	A	N3-C4	-8.26	1.29	1.34
1	N	1196	A	O3'-P	-8.26	1.51	1.61
1	N	698	G	C2-N3	8.26	1.39	1.32
1	N	1437	A	C5'-C4'	8.26	1.61	1.51
1	N	1230	C	P-O5'	-8.26	1.51	1.59
1	N	197	A	P-O5'	-8.25	1.51	1.59
1	N	105	G	N9-C4	-8.24	1.31	1.38
1	N	1108	G	N9-C4	-8.24	1.31	1.38
1	N	825	A	C3'-C2'	8.24	1.62	1.52
1	N	1159	U	N1-C6	-8.24	1.30	1.38
1	N	1503	A	P-O5'	-8.24	1.51	1.59
1	N	554	A	N3-C4	8.24	1.39	1.34
1	N	1221	G	C2-N2	8.24	1.42	1.34
1	N	1198	G	C5-C4	8.24	1.44	1.38
1	N	1244	G	N9-C4	-8.24	1.31	1.38
1	N	121	U	C2'-C1'	-8.23	1.44	1.53
1	N	442	G	C8-N7	-8.23	1.26	1.30
1	N	546	A	C5-C4	-8.23	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1193	G	C8-N7	-8.23	1.26	1.30
1	N	1105	A	N3-C4	-8.23	1.29	1.34
1	N	1399	C	P-O5'	-8.23	1.51	1.59
1	N	771	G	N9-C4	8.22	1.44	1.38
1	N	1329	A	C6-N1	8.22	1.41	1.35
1	N	1046	A	C6-N6	8.22	1.40	1.33
1	N	1494	G	N9-C4	-8.22	1.31	1.38
1	N	160	A	N9-C4	-8.22	1.32	1.37
1	N	484	G	O3'-P	-8.21	1.51	1.61
1	N	600	A	N9-C8	-8.21	1.31	1.37
1	N	301	G	C6-N1	8.20	1.45	1.39
1	N	722	G	N1-C2	8.21	1.44	1.37
1	N	836	G	N1-C2	8.21	1.44	1.37
1	N	1044	A	C8-N7	-8.21	1.25	1.31
1	N	271	C	C1'-N1	8.20	1.61	1.48
1	N	524	G	N1-C2	8.20	1.44	1.37
1	N	350	G	C5-C6	-8.20	1.34	1.42
1	N	580	C	N3-C4	8.20	1.39	1.33
1	N	911	U	C2-N3	8.20	1.43	1.37
1	N	1355	G	N9-C4	8.20	1.44	1.38
1	N	353	A	C2'-C1'	-8.20	1.44	1.53
1	N	683	G	O3'-P	-8.20	1.51	1.61
1	N	739	C	N3-C4	8.19	1.39	1.33
1	N	1112	C	N3-C4	8.19	1.39	1.33
1	N	1215	G	C2'-C1'	-8.19	1.44	1.53
1	N	100	G	N9-C4	-8.18	1.31	1.38
1	N	326	G	C3'-C2'	-8.18	1.43	1.52
1	N	1176	A	C6-N1	8.18	1.41	1.35
1	N	1123	U	C2-N3	8.18	1.43	1.37
1	N	473	U	N3-C4	8.18	1.45	1.38
1	N	691	G	C8-N7	8.18	1.35	1.30
1	N	791	G	N1-C2	8.17	1.44	1.37
1	N	82	G	C5'-C4'	8.17	1.61	1.51
1	N	34	C	C2'-C1'	-8.16	1.44	1.53
1	N	229	U	N3-C4	8.16	1.45	1.38
1	N	715	A	C6-N6	8.16	1.40	1.33
1	N	1084	G	C8-N7	-8.16	1.26	1.30
1	N	460	A	C6-N6	8.16	1.40	1.33
1	N	22	G	C5-C4	8.15	1.44	1.38
1	N	229	U	C3'-C2'	8.15	1.61	1.52
1	N	533	A	C5-C4	8.15	1.44	1.38
1	N	573	A	C2'-C1'	-8.15	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	713	G	C2-N3	8.15	1.39	1.32
1	N	859	G	C2-N2	8.15	1.42	1.34
1	N	204	G	N7-C5	-8.14	1.34	1.39
1	N	459	A	C6-N6	8.14	1.40	1.33
1	N	234	C	P-O5'	-8.14	1.51	1.59
1	N	1110	A	C6-N1	8.14	1.41	1.35
1	N	255	G	C2-N3	8.14	1.39	1.32
1	N	920	U	N3-C4	8.14	1.45	1.38
1	N	1309	G	N7-C5	-8.14	1.34	1.39
1	N	329	A	C5-C4	8.13	1.44	1.38
1	N	1160	G	N9-C8	-8.13	1.32	1.37
1	N	715	A	C2'-C1'	-8.13	1.44	1.53
1	N	1441	A	N7-C5	-8.13	1.34	1.39
1	N	1462	C	C4-N4	8.13	1.41	1.33
1	N	689	C	P-O5'	-8.12	1.51	1.59
1	N	1373	G	N7-C5	8.13	1.44	1.39
1	N	112	G	C5-C6	-8.12	1.34	1.42
1	N	1508	A	C4'-C3'	8.12	1.62	1.53
1	N	410	G	N9-C4	8.12	1.44	1.38
1	N	116	A	C6-N1	-8.12	1.29	1.35
1	N	129	A	N3-C4	-8.12	1.29	1.34
1	N	1453	G	N9-C8	8.12	1.43	1.37
1	N	102	G	N1-C2	8.11	1.44	1.37
1	N	1499	A	N7-C5	-8.11	1.34	1.39
1	N	211	G	C2-N2	-8.11	1.26	1.34
1	N	1099	G	N3-C4	8.11	1.41	1.35
1	N	1227	A	C6-N6	8.11	1.40	1.33
1	N	162	A	N7-C5	8.11	1.44	1.39
1	N	1455	G	C8-N7	-8.11	1.26	1.30
1	N	785	G	N9-C4	-8.10	1.31	1.38
1	N	787	A	N9-C8	8.10	1.44	1.37
1	N	1068	G	N7-C5	-8.10	1.34	1.39
1	N	295	C	C3'-C2'	8.10	1.61	1.52
1	N	148	G	C5-C4	8.10	1.44	1.38
1	N	120	A	O3'-P	-8.10	1.51	1.61
1	N	131	A	C2'-C1'	-8.10	1.44	1.53
1	N	246	A	C3'-C2'	8.10	1.61	1.52
1	N	1416	G	N7-C5	-8.10	1.34	1.39
1	N	1135	U	N1-C6	8.09	1.45	1.38
1	N	178	C	N3-C4	8.09	1.39	1.33
1	N	340	U	N1-C6	-8.09	1.30	1.38
1	N	454	G	N1-C2	8.09	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1504	G	N3-C4	8.09	1.41	1.35
1	N	237	G	C2-N3	8.09	1.39	1.32
1	N	250	A	N3-C4	-8.09	1.29	1.34
1	N	1119	C	O3'-P	-8.09	1.51	1.61
1	N	151	A	C5'-C4'	8.09	1.61	1.51
1	N	1415	G	C8-N7	-8.09	1.26	1.30
1	N	595	A	P-O5'	-8.08	1.51	1.59
1	N	683	G	N7-C5	8.08	1.44	1.39
1	N	140	U	P-O5'	-8.08	1.51	1.59
1	N	805	C	C2-N3	8.08	1.42	1.35
1	N	1011	C	C4-N4	8.08	1.41	1.33
1	N	216	U	N1-C2	-8.07	1.31	1.38
1	N	1198	G	N3-C4	-8.07	1.29	1.35
1	N	45	G	C2'-C1'	-8.07	1.44	1.53
1	N	412	A	C8-N7	-8.07	1.25	1.31
1	N	245	U	C3'-O3'	8.07	1.53	1.42
1	N	907	A	C8-N7	-8.07	1.25	1.31
1	N	532	A	C6-N1	8.06	1.41	1.35
1	N	933	G	C2'-C1'	-8.06	1.44	1.53
1	N	1162	C	N1-C6	8.06	1.42	1.37
1	N	48	C	C4-N4	8.06	1.41	1.33
1	N	1285	A	N3-C4	-8.06	1.30	1.34
1	N	229	U	P-O5'	-8.05	1.51	1.59
1	N	504	C	C4-C5	8.05	1.49	1.43
1	N	1462	C	N3-C4	8.05	1.39	1.33
1	N	1089	G	N9-C8	-8.05	1.32	1.37
1	N	1418	A	N3-C4	-8.05	1.30	1.34
1	N	869	G	C2-N3	8.04	1.39	1.32
1	N	1274	A	C6-N1	8.04	1.41	1.35
1	N	28	A	C6-N6	8.04	1.40	1.33
1	N	714	G	C5-C4	8.04	1.44	1.38
1	N	609	A	N1-C2	-8.04	1.27	1.34
1	N	927	G	C6-N1	8.04	1.45	1.39
1	N	68	G	C5-C6	-8.03	1.34	1.42
1	N	68	G	N7-C5	-8.03	1.34	1.39
1	N	208	U	C2-N3	8.03	1.43	1.37
1	N	1340	A	N7-C5	8.03	1.44	1.39
1	N	482	A	N7-C5	-8.03	1.34	1.39
1	N	1144	G	N9-C8	8.03	1.43	1.37
1	N	129	A	C6-N1	8.03	1.41	1.35
1	N	343	U	O4'-C1'	-8.03	1.31	1.41
1	N	1510	C	N3-C4	8.03	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	659	U	P-O5'	-8.03	1.51	1.59
1	N	870	U	P-O5'	-8.03	1.51	1.59
1	N	1072	G	N9-C8	-8.03	1.32	1.37
1	N	1412	C	P-O5'	-8.02	1.51	1.59
1	N	1024	G	C2-N3	8.02	1.39	1.32
1	N	599	C	C4-N4	8.02	1.41	1.33
1	N	1431	A	N9-C8	-8.01	1.31	1.37
1	N	566	G	N1-C2	8.01	1.44	1.37
1	N	667	G	C6-N1	8.01	1.45	1.39
1	N	957	U	C2-N3	8.01	1.43	1.37
1	N	1006	G	N9-C8	-8.01	1.32	1.37
1	N	1015	G	C2-N3	8.01	1.39	1.32
1	N	203	G	C2'-C1'	-8.01	1.44	1.53
1	N	658	C	C4'-O4'	8.01	1.55	1.45
1	N	1248	A	C2-N3	-8.01	1.26	1.33
1	N	941	G	N3-C4	-8.01	1.29	1.35
1	N	394	G	N9-C4	-8.00	1.31	1.38
1	N	780	A	N7-C5	-8.00	1.34	1.39
1	N	843	U	C4-C5	8.00	1.50	1.43
1	N	1200	C	C4'-C3'	8.00	1.61	1.53
1	N	1340	A	C5'-C4'	8.00	1.60	1.51
1	N	144	G	C4'-C3'	8.00	1.61	1.53
1	N	305	G	N7-C5	8.00	1.44	1.39
1	N	819	A	N3-C4	-8.00	1.30	1.34
1	N	941	G	N7-C5	-8.00	1.34	1.39
1	N	1404	C	C5'-C4'	7.99	1.60	1.51
1	N	262	A	C6-N1	7.99	1.41	1.35
1	N	332	G	C5-C4	7.99	1.44	1.38
1	N	567	G	C6-N1	7.99	1.45	1.39
1	N	969	A	C2'-C1'	-7.99	1.44	1.53
1	N	1475	G	C8-N7	7.99	1.35	1.30
1	N	57	G	C6-N1	7.99	1.45	1.39
1	N	124	C	C2-N3	7.98	1.42	1.35
1	N	511	C	C4-N4	7.98	1.41	1.33
1	N	437	U	C2'-C1'	-7.97	1.44	1.53
1	N	1266	G	N9-C8	7.97	1.43	1.37
1	N	127	G	C2-N3	7.97	1.39	1.32
1	N	293	G	C2-N2	7.97	1.42	1.34
1	N	781	A	C6-N6	7.97	1.40	1.33
1	N	747	A	C8-N7	-7.97	1.25	1.31
1	N	422	C	N1-C6	-7.97	1.32	1.37
1	N	30	U	C4-C5	7.96	1.50	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1192	C	C5-C6	-7.96	1.27	1.34
1	N	1207	G	C8-N7	-7.96	1.26	1.30
1	N	27	G	C8-N7	-7.96	1.26	1.30
1	N	502	A	C6-N1	7.96	1.41	1.35
1	N	513	C	C5-C6	-7.96	1.27	1.34
1	N	558	G	C8-N7	-7.96	1.26	1.30
1	N	56	U	P-O5'	-7.96	1.51	1.59
1	N	1092	A	N7-C5	-7.96	1.34	1.39
1	N	325	A	C8-N7	7.95	1.37	1.31
1	N	1286	U	C2-N3	7.95	1.43	1.37
1	N	1405	G	C8-N7	-7.95	1.26	1.30
1	N	1445	U	P-O5'	-7.95	1.51	1.59
1	N	127	G	C8-N7	7.95	1.35	1.30
1	N	474	G	N1-C2	7.95	1.44	1.37
1	N	538	G	C2-N3	7.95	1.39	1.32
1	N	763	G	C2'-C1'	-7.95	1.44	1.53
1	N	1132	C	C5-C6	7.95	1.40	1.34
1	N	505	G	N1-C2	7.95	1.44	1.37
1	N	1432	G	N1-C2	7.95	1.44	1.37
1	N	509	A	N3-C4	-7.94	1.30	1.34
1	N	986	U	C2'-C1'	-7.94	1.44	1.53
1	N	1103	C	C2-O2	7.93	1.31	1.24
1	N	533	A	C5-C6	-7.93	1.33	1.41
1	N	104	G	N1-C2	7.93	1.44	1.37
1	N	344	A	N9-C4	-7.93	1.33	1.37
1	N	74	A	C2'-C1'	-7.93	1.44	1.53
1	N	360	G	N7-C5	-7.93	1.34	1.39
1	N	357	G	C6-N1	7.92	1.45	1.39
1	N	58	C	C5'-C4'	7.92	1.60	1.51
1	N	881	G	N9-C4	7.92	1.44	1.38
1	N	1499	A	C8-N7	-7.92	1.26	1.31
1	N	859	G	N7-C5	-7.92	1.34	1.39
1	N	1468	A	C5'-C4'	7.92	1.60	1.51
1	N	1064	G	C6-N1	7.91	1.45	1.39
1	N	46	G	C6-N1	7.91	1.45	1.39
1	N	859	G	N9-C4	-7.91	1.31	1.38
1	N	1071	C	C2'-C1'	-7.91	1.44	1.53
1	N	1124	G	C2-N3	7.91	1.39	1.32
1	N	1306	A	C6-N1	7.91	1.41	1.35
1	N	1032	G	C2-N2	7.91	1.42	1.34
1	N	869	G	C5-C4	-7.91	1.32	1.38
1	N	1336	C	C4'-O4'	7.91	1.55	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	121	U	N1-C6	7.90	1.45	1.38
1	N	95	C	N3-C4	7.90	1.39	1.33
1	N	831	A	C8-N7	-7.90	1.26	1.31
1	N	993	G	C2-N3	7.90	1.39	1.32
1	N	655	A	N7-C5	-7.90	1.34	1.39
1	N	549	C	C4-N4	7.89	1.41	1.33
1	N	376	G	N9-C8	7.89	1.43	1.37
1	N	1020	G	C6-N1	7.89	1.45	1.39
1	N	749	A	C6-N1	7.89	1.41	1.35
1	N	780	A	P-O5'	-7.89	1.51	1.59
1	N	606	G	N7-C5	-7.88	1.34	1.39
1	N	338	A	N7-C5	-7.88	1.34	1.39
1	N	214	C	C2'-C1'	-7.88	1.44	1.53
1	N	514	C	N1-C6	-7.88	1.32	1.37
1	N	1458	G	N7-C5	-7.88	1.34	1.39
1	N	119	A	N7-C5	-7.88	1.34	1.39
1	N	713	G	C5-C4	7.88	1.43	1.38
1	N	1487	G	N7-C5	7.88	1.44	1.39
1	N	424	G	N9-C4	7.87	1.44	1.38
1	N	329	A	C8-N7	-7.87	1.26	1.31
1	N	100	G	N1-C2	7.87	1.44	1.37
1	N	237	G	C8-N7	-7.86	1.26	1.30
1	N	1051	C	N1-C6	7.86	1.41	1.37
1	N	26	A	P-O5'	-7.86	1.51	1.59
1	N	1141	C	N3-C4	7.86	1.39	1.33
1	N	1304	G	C4'-C3'	-7.86	1.44	1.53
1	N	636	U	C4'-C3'	-7.86	1.44	1.53
1	N	979	C	N1-C6	7.86	1.41	1.37
1	N	902	G	C8-N7	7.85	1.35	1.30
1	N	879	C	N3-C4	7.85	1.39	1.33
1	N	567	G	N3-C4	-7.85	1.29	1.35
1	N	719	C	N1-C6	7.84	1.41	1.37
1	N	1090	U	C2-N3	7.84	1.43	1.37
1	N	291	U	C4-C5	-7.84	1.36	1.43
1	N	1365	G	N9-C8	7.84	1.43	1.37
1	N	1426	G	C6-N1	7.84	1.45	1.39
1	N	592	G	C3'-C2'	7.84	1.61	1.52
1	N	844	G	C2-N2	7.84	1.42	1.34
1	N	418	C	C2-N3	7.84	1.42	1.35
1	N	1458	G	C3'-C2'	-7.84	1.44	1.52
1	N	35	G	N7-C5	-7.83	1.34	1.39
1	N	138	G	N3-C4	-7.83	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1128	C	N3-C4	7.83	1.39	1.33
1	N	627	G	C6-N1	7.83	1.45	1.39
1	N	671	G	C2-N2	7.83	1.42	1.34
1	N	1437	A	C5-C4	7.83	1.44	1.38
1	N	299	G	P-O5'	-7.82	1.51	1.59
1	N	742	G	C2'-C1'	-7.82	1.44	1.53
1	N	1097	C	C5'-C4'	7.82	1.60	1.51
1	N	382	A	N9-C4	-7.82	1.33	1.37
1	N	500	G	N7-C5	-7.81	1.34	1.39
1	N	1178	G	O3'-P	-7.81	1.51	1.61
1	N	703	G	C2-N2	7.81	1.42	1.34
1	N	1133	G	N7-C5	-7.81	1.34	1.39
1	N	1393	U	N3-C4	7.81	1.45	1.38
1	N	672	U	C2-N3	7.80	1.43	1.37
1	N	325	A	N9-C4	-7.80	1.33	1.37
1	N	769	G	C2-N3	7.80	1.39	1.32
1	N	190	A	C6-N1	7.79	1.41	1.35
1	N	807	A	O4'-C1'	7.79	1.51	1.41
1	N	1526	G	N7-C5	-7.79	1.34	1.39
1	N	995	C	N3-C4	7.79	1.39	1.33
1	N	883	C	N3-C4	7.79	1.39	1.33
1	N	966	G	C5'-C4'	7.79	1.60	1.51
1	N	497	G	C2-N3	7.79	1.39	1.32
1	N	34	C	C4-C5	7.79	1.49	1.43
1	N	36	C	N3-C4	7.78	1.39	1.33
1	N	706	A	N3-C4	-7.78	1.30	1.34
1	N	1385	G	N7-C5	-7.78	1.34	1.39
1	N	187	G	N9-C8	-7.78	1.32	1.37
1	N	1025	U	C2-N3	7.78	1.43	1.37
1	N	1068	G	C5-C4	7.78	1.43	1.38
1	N	643	C	N1-C6	7.78	1.41	1.37
1	N	199	A	C6-N6	7.78	1.40	1.33
1	N	1148	U	C5'-C4'	7.78	1.60	1.51
1	N	168	G	N9-C8	7.77	1.43	1.37
1	N	318	G	P-O5'	-7.77	1.51	1.59
1	N	365	U	N1-C2	7.77	1.45	1.38
1	N	50	A	N7-C5	-7.77	1.34	1.39
1	N	1418	A	N9-C4	7.77	1.42	1.37
1	N	720	C	N3-C4	7.76	1.39	1.33
1	N	934	C	C4'-C3'	7.76	1.61	1.53
1	N	936	C	N1-C6	-7.76	1.32	1.37
1	N	1530	G	N1-C2	7.76	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1099	G	N9-C8	7.76	1.43	1.37
1	N	303	A	C6-N6	7.76	1.40	1.33
1	N	1068	G	C2'-C1'	-7.76	1.44	1.53
1	N	285	C	O3'-P	-7.76	1.51	1.61
1	N	1508	A	N9-C4	7.76	1.42	1.37
1	N	223	A	C6-N6	7.75	1.40	1.33
1	N	277	C	N1-C6	7.75	1.41	1.37
1	N	278	G	C5'-C4'	7.75	1.60	1.51
1	N	39	G	C4'-C3'	7.75	1.61	1.53
1	N	275	G	C6-N1	7.75	1.45	1.39
1	N	205	A	C2'-C1'	-7.74	1.44	1.53
1	N	1448	C	N1-C6	7.74	1.41	1.37
1	N	263	A	O3'-P	-7.74	1.51	1.61
1	N	389	A	N7-C5	-7.74	1.34	1.39
1	N	511	C	C2-N3	7.74	1.42	1.35
1	N	987	G	C6-N1	7.74	1.45	1.39
1	N	415	A	N7-C5	-7.74	1.34	1.39
1	N	686	U	N3-C4	7.74	1.45	1.38
1	N	1053	G	N1-C2	7.74	1.44	1.37
1	N	1531	A	C5-C6	7.74	1.48	1.41
1	N	1071	C	C1'-N1	7.74	1.60	1.48
1	N	1127	G	C5-C4	7.74	1.43	1.38
1	N	1504	G	N7-C5	-7.73	1.34	1.39
1	N	53	A	C6-N6	7.73	1.40	1.33
1	N	551	U	P-O5'	-7.73	1.52	1.59
1	N	365	U	C5'-C4'	7.73	1.60	1.51
1	N	935	A	N7-C5	-7.73	1.34	1.39
1	N	238	A	C5-C4	7.72	1.44	1.38
1	N	743	A	N3-C4	7.72	1.39	1.34
1	N	1362	A	O3'-P	-7.72	1.51	1.61
1	N	701	U	N1-C6	7.72	1.45	1.38
1	N	807	A	N7-C5	-7.72	1.34	1.39
1	N	1026	G	N1-C2	7.72	1.44	1.37
1	N	1266	G	N7-C5	-7.72	1.34	1.39
1	N	1475	G	N3-C4	-7.72	1.30	1.35
1	N	888	G	C5-C4	7.72	1.43	1.38
1	N	256	U	P-O5'	-7.72	1.52	1.59
1	N	332	G	N1-C2	7.72	1.44	1.37
1	N	940	C	P-O5'	-7.72	1.52	1.59
1	N	1349	A	N9-C4	7.72	1.42	1.37
1	N	38	G	N1-C2	7.71	1.44	1.37
1	N	674	G	N9-C8	7.71	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1285	A	C5'-C4'	7.71	1.60	1.51
1	N	192	A	C5-C4	-7.71	1.33	1.38
1	N	1396	A	C5-C4	7.71	1.44	1.38
1	N	1068	G	N1-C2	7.71	1.44	1.37
1	N	598	U	C3'-C2'	-7.71	1.44	1.52
1	N	874	G	C5-C4	7.71	1.43	1.38
1	N	1488	G	C6-N1	7.71	1.45	1.39
1	N	494	G	C6-N1	7.70	1.45	1.39
1	N	158	G	C2-N3	7.70	1.39	1.32
1	N	53	A	N9-C4	7.70	1.42	1.37
1	N	128	G	N3-C4	-7.70	1.30	1.35
1	N	1120	C	C4-N4	7.70	1.40	1.33
1	N	1371	G	C2-N3	7.70	1.39	1.32
1	N	143	A	C6-N6	7.69	1.40	1.33
1	N	41	G	N9-C4	7.69	1.44	1.38
1	N	383	A	C6-N6	7.69	1.40	1.33
1	N	82	G	C2-N3	7.69	1.39	1.32
1	N	483	C	P-O5'	-7.69	1.52	1.59
1	N	520	A	C2-N3	7.69	1.40	1.33
1	N	682	G	N3-C4	-7.69	1.30	1.35
1	N	1107	C	C2-N3	7.69	1.42	1.35
1	N	211	G	N3-C4	-7.68	1.30	1.35
1	N	1247	U	C5'-C4'	7.68	1.60	1.51
1	N	1295	U	N1-C2	-7.68	1.31	1.38
1	N	376	G	C2-N3	-7.68	1.26	1.32
1	N	1374	A	C5-C4	-7.68	1.33	1.38
1	N	147	G	C3'-C2'	-7.68	1.44	1.52
1	N	86	G	N7-C5	-7.68	1.34	1.39
1	N	1121	U	C2-N3	7.68	1.43	1.37
1	N	713	G	C5-C6	-7.67	1.34	1.42
1	N	1191	A	O3'-P	-7.67	1.51	1.61
1	N	1035	A	N9-C4	-7.67	1.33	1.37
1	N	881	G	N7-C5	7.67	1.43	1.39
1	N	548	G	C6-N1	-7.67	1.34	1.39
1	N	574	A	N9-C8	7.67	1.43	1.37
1	N	153	C	N3-C4	7.67	1.39	1.33
1	N	1088	G	C4'-C3'	7.67	1.61	1.53
1	N	1446	A	N9-C4	-7.67	1.33	1.37
1	N	1206	G	N1-C2	7.66	1.43	1.37
1	N	128	G	C6-N1	7.66	1.45	1.39
1	N	493	A	C6-N6	-7.66	1.27	1.33
1	N	1420	U	N1-C6	7.66	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	530	G	N7-C5	-7.66	1.34	1.39
1	N	1258	G	C4'-O4'	7.66	1.55	1.45
1	N	242	G	C6-N1	7.65	1.45	1.39
1	N	1461	G	C3'-C2'	-7.65	1.44	1.52
1	N	1504	G	C5-C6	-7.65	1.34	1.42
1	N	575	G	P-O5'	-7.65	1.52	1.59
1	N	1177	G	C2-N3	7.65	1.38	1.32
1	N	1144	G	C5-C4	7.65	1.43	1.38
1	N	550	G	N9-C8	7.65	1.43	1.37
1	N	92	U	N1-C2	-7.64	1.31	1.38
1	N	1505	G	C5'-C4'	7.64	1.60	1.51
1	N	180	U	O3'-P	-7.64	1.51	1.61
1	N	343	U	O3'-P	-7.64	1.51	1.61
1	N	1305	G	C2'-C1'	-7.63	1.45	1.53
1	N	408	A	N9-C8	7.63	1.43	1.37
1	N	1156	G	C6-N1	7.63	1.44	1.39
1	N	605	U	O3'-P	-7.63	1.51	1.61
1	N	1425	U	N3-C4	7.63	1.45	1.38
1	N	97	G	C2'-C1'	-7.63	1.45	1.53
1	N	265	G	C2'-C1'	-7.63	1.45	1.53
1	N	541	G	C6-N1	7.62	1.44	1.39
1	N	1408	A	C4'-O4'	-7.62	1.35	1.45
1	N	500	G	C2'-C1'	-7.62	1.45	1.53
1	N	179	A	P-O5'	-7.62	1.52	1.59
1	N	844	G	C6-N1	7.61	1.44	1.39
1	N	373	A	N7-C5	-7.61	1.34	1.39
1	N	1426	G	N3-C4	-7.61	1.30	1.35
1	N	489	C	C4-N4	7.61	1.40	1.33
1	N	740	U	N1-C6	7.61	1.44	1.38
1	N	1287	A	C6-N6	7.61	1.40	1.33
1	N	727	G	N3-C4	-7.61	1.30	1.35
1	N	928	G	C2-N3	7.61	1.38	1.32
1	N	1255	G	N9-C8	7.61	1.43	1.37
1	N	451	A	C5'-C4'	7.60	1.60	1.51
1	N	389	A	C6-N6	7.60	1.40	1.33
1	N	984	C	C2-N3	-7.60	1.29	1.35
1	N	1313	U	N1-C6	7.60	1.44	1.38
1	N	1382	C	P-O5'	-7.60	1.52	1.59
1	N	236	A	C5-C6	-7.60	1.34	1.41
1	N	354	G	N9-C4	-7.60	1.31	1.38
1	N	491	G	O3'-P	-7.60	1.52	1.61
1	N	1271	A	C8-N7	-7.60	1.26	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1311	A	C6-N6	7.60	1.40	1.33
1	N	103	U	C2-N3	7.60	1.43	1.37
1	N	825	A	N9-C8	-7.59	1.31	1.37
1	N	698	G	N7-C5	-7.59	1.34	1.39
1	N	1384	C	N3-C4	7.59	1.39	1.33
1	N	1182	G	N7-C5	-7.59	1.34	1.39
1	N	1414	U	N3-C4	7.59	1.45	1.38
1	N	37	U	C4-C5	7.58	1.50	1.43
1	N	1106	G	C6-N1	7.58	1.44	1.39
1	N	1265	C	N3-C4	7.58	1.39	1.33
1	N	755	G	N1-C2	7.58	1.43	1.37
1	N	1349	A	C8-N7	-7.58	1.26	1.31
1	N	383	A	C5'-C4'	7.58	1.60	1.51
1	N	1026	G	N9-C8	7.58	1.43	1.37
1	N	1245	C	C5'-C4'	7.58	1.60	1.51
1	N	901	A	C6-N1	7.58	1.40	1.35
1	N	398	U	C2-N3	7.58	1.43	1.37
1	N	505	G	C2-N2	7.57	1.42	1.34
1	N	944	G	N1-C2	7.57	1.43	1.37
1	N	1018	G	O3'-P	-7.57	1.52	1.61
1	N	445	G	O3'-P	-7.57	1.52	1.61
1	N	776	G	N7-C5	-7.57	1.34	1.39
1	N	10	A	O3'-P	-7.56	1.52	1.61
1	N	231	U	N3-C4	7.56	1.45	1.38
1	N	852	G	N1-C2	7.56	1.43	1.37
1	N	431	A	C4'-O4'	-7.56	1.35	1.45
1	N	771	G	N9-C8	-7.56	1.32	1.37
1	N	1512	U	N1-C6	7.56	1.44	1.38
1	N	405	U	O3'-P	-7.56	1.52	1.61
1	N	874	G	N7-C5	-7.56	1.34	1.39
1	N	1106	G	C2'-C1'	7.56	1.61	1.53
1	N	1216	A	C3'-O3'	7.55	1.52	1.42
1	N	298	A	C4'-C3'	7.55	1.61	1.53
1	N	827	U	N1-C6	7.55	1.44	1.38
1	N	664	G	N3-C4	7.55	1.40	1.35
1	N	949	A	N7-C5	-7.55	1.34	1.39
1	N	1362	A	N3-C4	7.55	1.39	1.34
1	N	220	G	N7-C5	-7.55	1.34	1.39
1	N	1406	U	C4-C5	-7.55	1.36	1.43
1	N	1255	G	N1-C2	7.54	1.43	1.37
1	N	562	U	O3'-P	-7.54	1.52	1.61
1	N	1482	G	N7-C5	-7.54	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	545	C	P-O5'	-7.54	1.52	1.59
1	N	874	G	N3-C4	7.54	1.40	1.35
1	N	138	G	N7-C5	-7.54	1.34	1.39
1	N	942	G	N7-C5	-7.53	1.34	1.39
1	N	445	G	N1-C2	7.53	1.43	1.37
1	N	765	G	C2-N3	7.53	1.38	1.32
1	N	1333	A	N7-C5	-7.53	1.34	1.39
1	N	1481	U	C5'-C4'	7.53	1.60	1.51
1	N	1256	A	N3-C4	-7.53	1.30	1.34
1	N	730	G	N7-C5	-7.52	1.34	1.39
1	N	63	C	N3-C4	7.52	1.39	1.33
1	N	830	G	C2-N2	7.52	1.42	1.34
1	N	383	A	O3'-P	-7.52	1.52	1.61
1	N	511	C	N1-C6	7.52	1.41	1.37
1	N	733	G	C5-C4	-7.52	1.33	1.38
1	N	822	U	N1-C6	7.52	1.44	1.38
1	N	1008	U	C2-N3	7.52	1.43	1.37
1	N	464	U	C2'-C1'	-7.51	1.45	1.53
1	N	838	G	C2-N3	7.51	1.38	1.32
1	N	1163	A	C4'-O4'	7.51	1.55	1.45
1	N	56	U	C5'-C4'	7.51	1.60	1.51
1	N	1293	C	N3-C4	7.51	1.39	1.33
1	N	1414	U	N1-C2	7.51	1.45	1.38
1	N	1301	U	C4'-C3'	7.51	1.61	1.53
1	N	416	G	N1-C2	7.50	1.43	1.37
1	N	845	A	C5'-C4'	7.50	1.60	1.51
1	N	361	G	C2-N2	7.50	1.42	1.34
1	N	1489	G	C5-C4	-7.50	1.33	1.38
1	N	121	U	C1'-N1	7.50	1.60	1.48
1	N	803	G	N1-C2	7.50	1.43	1.37
1	N	397	A	O3'-P	-7.50	1.52	1.61
1	N	1260	G	N3-C4	7.50	1.40	1.35
1	N	57	G	N9-C4	-7.50	1.31	1.38
1	N	353	A	C8-N7	-7.50	1.26	1.31
1	N	417	G	N9-C4	-7.50	1.31	1.38
1	N	1435	G	C6-N1	7.49	1.44	1.39
1	N	151	A	P-O5'	7.49	1.67	1.59
1	N	991	U	N1-C6	7.49	1.44	1.38
1	N	1454	G	N9-C4	7.49	1.44	1.38
1	N	1277	C	N1-C6	7.49	1.41	1.37
1	N	811	C	N3-C4	7.49	1.39	1.33
1	N	1510	C	C4-C5	-7.49	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1534	A	C5-C6	-7.49	1.34	1.41
1	N	236	A	C6-N1	7.49	1.40	1.35
1	N	334	C	C2-N3	7.49	1.41	1.35
1	N	763	G	N7-C5	-7.49	1.34	1.39
1	N	1379	G	N9-C4	-7.48	1.31	1.38
1	N	352	C	O3'-P	-7.48	1.52	1.61
1	N	143	A	O3'-P	-7.48	1.52	1.61
1	N	165	G	N1-C2	7.48	1.43	1.37
1	N	273	U	N1-C6	7.48	1.44	1.38
1	N	960	U	P-O5'	7.48	1.67	1.59
1	N	1262	C	P-O5'	-7.48	1.52	1.59
1	N	1186	G	C8-N7	7.48	1.35	1.30
1	N	1231	G	N9-C4	-7.48	1.31	1.38
1	N	636	U	N3-C4	7.48	1.45	1.38
1	N	641	U	P-O5'	-7.48	1.52	1.59
1	N	1307	U	P-O5'	-7.48	1.52	1.59
1	N	1160	G	C2-N2	7.47	1.42	1.34
1	N	1197	A	N9-C4	-7.47	1.33	1.37
1	N	346	G	N1-C2	7.47	1.43	1.37
1	N	443	C	N3-C4	7.47	1.39	1.33
1	N	312	C	N3-C4	7.47	1.39	1.33
1	N	402	G	N1-C2	7.47	1.43	1.37
1	N	551	U	C4-C5	7.47	1.50	1.43
1	N	554	A	C6-N6	7.47	1.40	1.33
1	N	574	A	C5'-C4'	7.47	1.60	1.51
1	N	1140	C	C4'-C3'	7.47	1.61	1.53
1	N	325	A	C2'-C1'	-7.46	1.45	1.53
1	N	1347	G	N1-C2	7.46	1.43	1.37
1	N	1032	G	C6-N1	7.46	1.44	1.39
1	N	359	G	C8-N7	-7.46	1.26	1.30
1	N	1367	C	N3-C4	7.46	1.39	1.33
1	N	340	U	C2'-C1'	-7.46	1.45	1.53
1	N	653	U	P-O5'	-7.46	1.52	1.59
1	N	599	C	O3'-P	-7.46	1.52	1.61
1	N	652	U	C4-C5	7.46	1.50	1.43
1	N	790	A	N7-C5	-7.46	1.34	1.39
1	N	661	G	C1'-N9	7.46	1.59	1.48
1	N	247	G	C6-N1	7.45	1.44	1.39
1	N	1354	U	C2-N3	7.45	1.43	1.37
1	N	1177	G	C6-N1	7.45	1.44	1.39
1	N	182	A	N3-C4	-7.45	1.30	1.34
1	N	667	G	C3'-C2'	7.45	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1223	C	N1-C6	7.45	1.41	1.37
1	N	336	A	C4'-C3'	7.44	1.61	1.53
1	N	612	C	N3-C4	7.44	1.39	1.33
1	N	430	A	P-O5'	-7.44	1.52	1.59
1	N	1516	G	N9-C4	-7.44	1.31	1.38
1	N	533	A	C6-N6	7.44	1.40	1.33
1	N	1332	A	C4'-C3'	-7.44	1.45	1.53
1	N	197	A	N9-C4	7.44	1.42	1.37
1	N	1386	G	N1-C2	7.44	1.43	1.37
1	N	1186	G	C4'-C3'	7.44	1.61	1.53
1	N	30	U	N3-C4	7.43	1.45	1.38
1	N	904	U	N1-C6	7.43	1.44	1.38
1	N	1428	A	N7-C5	-7.43	1.34	1.39
1	N	636	U	N1-C6	7.43	1.44	1.38
1	N	72	A	N7-C5	-7.43	1.34	1.39
1	N	107	G	P-O5'	-7.42	1.52	1.59
1	N	442	G	C2-N2	7.42	1.42	1.34
1	N	43	C	N1-C6	7.42	1.41	1.37
1	N	832	G	C2-N2	7.42	1.42	1.34
1	N	1190	G	N1-C2	7.42	1.43	1.37
1	N	727	G	C4'-C3'	-7.42	1.45	1.53
1	N	1502	A	C6-N1	7.42	1.40	1.35
1	N	1521	C	N1-C6	7.42	1.41	1.37
1	N	344	A	C6-N6	7.42	1.39	1.33
1	N	830	G	C2'-C1'	-7.42	1.45	1.53
1	N	1100	C	N3-C4	7.42	1.39	1.33
1	N	347	G	C6-N1	7.42	1.44	1.39
1	N	985	C	N3-C4	7.42	1.39	1.33
1	N	311	C	C4-C5	-7.41	1.37	1.43
1	N	661	G	C6-N1	7.41	1.44	1.39
1	N	428	G	N7-C5	-7.41	1.34	1.39
1	N	737	C	N3-C4	7.41	1.39	1.33
1	N	131	A	N9-C4	7.41	1.42	1.37
1	N	700	G	N3-C4	7.41	1.40	1.35
1	N	1124	G	C5-C4	7.41	1.43	1.38
1	N	558	G	C1'-N9	7.41	1.59	1.48
1	N	168	G	C2-N3	7.41	1.38	1.32
1	N	254	G	N9-C4	-7.41	1.32	1.38
1	N	1049	U	C4-C5	7.41	1.50	1.43
1	N	435	A	N9-C8	-7.40	1.31	1.37
1	N	922	G	N3-C4	7.40	1.40	1.35
1	N	965	U	C4'-O4'	7.40	1.55	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	882	C	C4-N4	7.40	1.40	1.33
1	N	515	G	C2-N3	7.40	1.38	1.32
1	N	771	G	C2'-C1'	-7.40	1.45	1.53
1	N	1325	C	C3'-C2'	7.40	1.61	1.52
1	N	1477	U	C2-N3	7.40	1.43	1.37
1	N	188	C	C4-N4	7.39	1.40	1.33
1	N	299	G	C2'-C1'	-7.39	1.45	1.53
1	N	538	G	C8-N7	-7.39	1.26	1.30
1	N	1034	G	C6-N1	7.38	1.44	1.39
1	N	1275	A	N3-C4	-7.38	1.30	1.34
1	N	128	G	C5'-C4'	7.38	1.60	1.51
1	N	807	A	C2-N3	7.38	1.40	1.33
1	N	308	C	C2'-C1'	-7.38	1.45	1.53
1	N	1240	U	C5'-C4'	7.38	1.60	1.51
1	N	1307	U	C4'-C3'	-7.38	1.45	1.53
1	N	687	A	C6-N1	7.38	1.40	1.35
1	N	834	U	N1-C2	7.37	1.45	1.38
1	N	384	G	N1-C2	7.37	1.43	1.37
1	N	1448	C	C2-N3	7.37	1.41	1.35
1	N	1530	G	C5-C4	-7.37	1.33	1.38
1	N	650	G	N7-C5	7.37	1.43	1.39
1	N	770	C	N1-C6	-7.37	1.32	1.37
1	N	881	G	N1-C2	7.37	1.43	1.37
1	N	1404	C	N3-C4	7.37	1.39	1.33
1	N	1239	A	C5-C4	-7.36	1.33	1.38
1	N	260	G	C4'-C3'	7.36	1.61	1.53
1	N	798	U	N3-C4	7.36	1.45	1.38
1	N	1495	U	O3'-P	-7.36	1.52	1.61
1	N	79	G	C2-N3	7.35	1.38	1.32
1	N	752	G	C2'-C1'	-7.35	1.45	1.53
1	N	1319	A	P-O5'	-7.35	1.52	1.59
1	N	1514	G	N3-C4	-7.35	1.30	1.35
1	N	1054	C	P-O5'	-7.35	1.52	1.59
1	N	1101	A	N3-C4	7.35	1.39	1.34
1	N	114	U	C2-N3	7.35	1.42	1.37
1	N	609	A	C6-N6	7.35	1.39	1.33
1	N	674	G	C2'-C1'	-7.35	1.45	1.53
1	N	374	A	C1'-N9	7.35	1.59	1.48
1	N	630	A	N3-C4	-7.34	1.30	1.34
1	N	1236	A	C6-N1	7.34	1.40	1.35
1	N	668	G	N1-C2	7.34	1.43	1.37
1	N	874	G	C5'-C4'	7.34	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1043	G	N9-C4	7.34	1.43	1.38
1	N	750	C	C4-N4	7.34	1.40	1.33
1	N	1296	C	C4-N4	7.34	1.40	1.33
1	N	1215	G	C2-N3	7.33	1.38	1.32
1	N	230	G	N9-C8	-7.33	1.32	1.37
1	N	1130	A	N7-C5	-7.33	1.34	1.39
1	N	1017	U	N1-C6	7.33	1.44	1.38
1	N	510	A	C6-N6	7.33	1.39	1.33
1	N	426	U	N1-C6	-7.33	1.31	1.38
1	N	381	C	C5-C6	-7.32	1.28	1.34
1	N	1047	G	N9-C4	-7.32	1.32	1.38
1	N	77	A	C5'-C4'	7.32	1.60	1.51
1	N	1066	C	C4-N4	7.32	1.40	1.33
1	N	343	U	C2-N3	7.32	1.42	1.37
1	N	1041	G	C2'-C1'	-7.32	1.45	1.53
1	N	1146	A	N7-C5	-7.32	1.34	1.39
1	N	1251	A	C2'-C1'	-7.31	1.45	1.53
1	N	111	G	N1-C2	7.31	1.43	1.37
1	N	368	U	N1-C6	7.31	1.44	1.38
1	N	323	U	P-O5'	-7.31	1.52	1.59
1	N	1437	A	N9-C4	7.31	1.42	1.37
1	N	1119	C	N1-C6	7.31	1.41	1.37
1	N	1415	G	N7-C5	-7.31	1.34	1.39
1	N	265	G	C2-N3	7.30	1.38	1.32
1	N	285	C	N1-C6	7.30	1.41	1.37
1	N	357	G	C8-N7	-7.30	1.26	1.30
1	N	648	A	C8-N7	-7.30	1.26	1.31
1	N	933	G	C3'-C2'	-7.30	1.44	1.52
1	N	179	A	C8-N7	-7.30	1.26	1.31
1	N	951	G	N3-C4	-7.30	1.30	1.35
1	N	878	A	N7-C5	-7.30	1.34	1.39
1	N	1087	G	N9-C8	-7.30	1.32	1.37
1	N	1335	U	P-O5'	-7.30	1.52	1.59
1	N	207	C	C2-N3	7.30	1.41	1.35
1	N	328	C	N1-C6	-7.30	1.32	1.37
1	N	805	C	C4-N4	7.29	1.40	1.33
1	N	184	G	N7-C5	-7.29	1.34	1.39
1	N	777	A	C6-N1	7.29	1.40	1.35
1	N	1140	C	C2'-C1'	-7.29	1.45	1.53
1	N	201	G	C2-N3	7.29	1.38	1.32
1	N	1121	U	C4'-C3'	-7.29	1.45	1.53
1	N	219	U	C3'-C2'	-7.29	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	517	G	C2'-C1'	-7.29	1.45	1.53
1	N	1042	A	C2'-C1'	-7.29	1.45	1.53
1	N	205	A	N9-C4	7.29	1.42	1.37
1	N	703	G	C3'-C2'	7.29	1.60	1.52
1	N	168	G	C5-C4	-7.29	1.33	1.38
1	N	269	C	P-O5'	-7.29	1.52	1.59
1	N	1264	U	O3'-P	-7.29	1.52	1.61
1	N	1377	A	C4'-O4'	-7.29	1.36	1.45
1	N	556	C	P-O5'	-7.28	1.52	1.59
1	N	1300	G	C8-N7	7.28	1.35	1.30
1	N	1353	G	C2-N3	7.28	1.38	1.32
1	N	190	A	C5-C4	7.28	1.43	1.38
1	N	439	U	C1'-N1	7.28	1.59	1.48
1	N	1301	U	O4'-C1'	7.28	1.51	1.41
1	N	1461	G	C5'-C4'	7.28	1.60	1.51
1	N	958	A	N9-C4	-7.28	1.33	1.37
1	N	1268	G	C5-C4	7.28	1.43	1.38
1	N	538	G	C5-C4	7.28	1.43	1.38
1	N	1324	A	C4'-C3'	-7.27	1.45	1.53
1	N	1289	A	C5'-C4'	7.27	1.60	1.51
1	N	709	U	C2-N3	7.27	1.42	1.37
1	N	953	G	C5-C6	-7.27	1.35	1.42
1	N	754	C	O3'-P	-7.26	1.52	1.61
1	N	687	A	C6-N6	7.26	1.39	1.33
1	N	8	A	C5'-C4'	7.26	1.60	1.51
1	N	80	A	C2-N3	7.26	1.40	1.33
1	N	412	A	C2'-C1'	-7.26	1.45	1.53
1	N	1520	C	C5'-C4'	7.26	1.60	1.51
1	N	81	A	C5-C6	7.26	1.47	1.41
1	N	1093	A	N3-C4	7.26	1.39	1.34
1	N	1298	U	C2-N3	7.25	1.42	1.37
1	N	208	U	C2'-C1'	-7.25	1.45	1.53
1	N	770	C	C4-N4	7.25	1.40	1.33
1	N	191	G	C4'-O4'	-7.25	1.36	1.45
1	N	1338	G	C2-N3	7.25	1.38	1.32
1	N	710	G	N7-C5	-7.25	1.34	1.39
1	N	964	A	N3-C4	7.25	1.39	1.34
1	N	1058	G	C5-C4	7.25	1.43	1.38
1	N	1347	G	N9-C8	7.25	1.43	1.37
1	N	73	C	P-O5'	7.25	1.67	1.59
1	N	450	G	N9-C4	-7.25	1.32	1.38
1	N	917	G	N1-C2	7.24	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	36	C	N1-C6	7.24	1.41	1.37
1	N	64	G	N1-C2	7.24	1.43	1.37
1	N	694	A	C6-N6	7.24	1.39	1.33
1	N	1282	C	C4-C5	-7.24	1.37	1.43
1	N	1432	G	N9-C4	7.24	1.43	1.38
1	N	2	A	C6-N6	7.24	1.39	1.33
1	N	903	G	C1'-N9	7.24	1.59	1.48
1	N	570	G	N1-C2	7.24	1.43	1.37
1	N	700	G	N7-C5	-7.24	1.34	1.39
1	N	785	G	N7-C5	7.24	1.43	1.39
1	N	140	U	C2-N3	7.23	1.42	1.37
1	N	669	G	N7-C5	-7.23	1.34	1.39
1	N	1045	C	N1-C6	7.23	1.41	1.37
1	N	2	A	C6-N1	7.23	1.40	1.35
1	N	66	A	N7-C5	-7.23	1.34	1.39
1	N	945	G	C5-C6	-7.23	1.35	1.42
1	N	1308	U	C1'-N1	7.23	1.59	1.48
1	N	1311	A	C2-N3	7.23	1.40	1.33
1	N	1529	G	C8-N7	7.23	1.35	1.30
1	N	211	G	N9-C4	-7.22	1.32	1.38
1	N	281	G	C2-N3	7.22	1.38	1.32
1	N	623	C	C4-N4	7.22	1.40	1.33
1	N	628	G	C2-N3	7.22	1.38	1.32
1	N	179	A	N3-C4	-7.22	1.30	1.34
1	N	274	A	C4'-O4'	7.22	1.54	1.45
1	N	463	U	C1'-N1	7.22	1.59	1.48
1	N	570	G	O4'-C1'	7.22	1.51	1.41
1	N	312	C	C1'-N1	7.21	1.59	1.48
1	N	586	C	C4'-C3'	7.21	1.61	1.53
1	N	371	A	P-O5'	7.21	1.67	1.59
1	N	1166	G	C2'-C1'	-7.21	1.45	1.53
1	N	1432	G	P-O5'	-7.21	1.52	1.59
1	N	171	A	C8-N7	-7.21	1.26	1.31
1	N	152	A	C8-N7	-7.20	1.26	1.31
1	N	574	A	N3-C4	7.20	1.39	1.34
1	N	818	G	C2-N3	7.20	1.38	1.32
1	N	128	G	P-O5'	-7.20	1.52	1.59
1	N	995	C	N1-C6	7.20	1.41	1.37
1	N	1448	C	C4-N4	7.20	1.40	1.33
1	N	350	G	N1-C2	7.20	1.43	1.37
1	N	1418	A	N7-C5	-7.20	1.34	1.39
1	N	1138	G	C8-N7	-7.20	1.26	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	454	G	C8-N7	-7.20	1.26	1.30
1	N	321	A	C5'-C4'	7.20	1.59	1.51
1	N	408	A	N9-C4	-7.20	1.33	1.37
1	N	313	A	N9-C4	7.19	1.42	1.37
1	N	405	U	C2-N3	7.19	1.42	1.37
1	N	1456	A	C8-N7	-7.19	1.26	1.31
1	N	1104	G	C6-N1	7.19	1.44	1.39
1	N	1178	G	C8-N7	-7.19	1.26	1.30
1	N	1264	U	C2'-C1'	-7.19	1.45	1.53
1	N	389	A	N1-C2	7.19	1.40	1.34
1	N	718	A	N3-C4	7.19	1.39	1.34
1	N	1400	C	C2-N3	7.19	1.41	1.35
1	N	1526	G	C5-C4	7.19	1.43	1.38
1	N	1226	C	N3-C4	7.18	1.39	1.33
1	N	354	G	N7-C5	-7.18	1.34	1.39
1	N	182	A	C5-C4	7.18	1.43	1.38
1	N	254	G	C2-N3	7.18	1.38	1.32
1	N	482	A	C6-N6	7.18	1.39	1.33
1	N	684	U	N3-C4	7.18	1.45	1.38
1	N	587	G	N1-C2	7.18	1.43	1.37
1	N	749	A	C5'-C4'	7.18	1.59	1.51
1	N	862	C	C4-C5	7.18	1.48	1.43
1	N	1398	A	C5'-C4'	-7.18	1.42	1.51
1	N	114	U	C5'-C4'	7.17	1.59	1.51
1	N	159	G	N9-C8	-7.17	1.32	1.37
1	N	962	C	P-O5'	-7.17	1.52	1.59
1	N	1015	G	C2'-C1'	-7.17	1.45	1.53
1	N	1377	A	C5'-C4'	7.17	1.59	1.51
1	N	1516	G	C5'-C4'	7.17	1.59	1.51
1	N	1318	A	N9-C8	-7.17	1.32	1.37
1	N	1450	U	N3-C4	7.17	1.45	1.38
1	N	276	G	C4'-C3'	7.17	1.61	1.53
1	N	289	G	N9-C8	7.17	1.42	1.37
1	N	682	G	C6-O6	-7.17	1.17	1.24
1	N	704	A	C3'-C2'	-7.17	1.44	1.52
1	N	739	C	C4-N4	7.17	1.40	1.33
1	N	853	C	C4-N4	7.17	1.40	1.33
1	N	1525	G	C6-N1	7.17	1.44	1.39
1	N	532	A	N9-C4	7.16	1.42	1.37
1	N	761	G	C5-C6	-7.16	1.35	1.42
1	N	1160	G	C2'-C1'	-7.16	1.45	1.53
1	N	205	A	O4'-C1'	7.16	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1342	C	C4-C5	7.16	1.48	1.43
1	N	55	A	N9-C4	7.16	1.42	1.37
1	N	947	G	O3'-P	-7.16	1.52	1.61
1	N	184	G	C5-C6	-7.16	1.35	1.42
1	N	460	A	C2'-C1'	-7.16	1.45	1.53
1	N	1260	G	C2-N2	7.16	1.41	1.34
1	N	575	G	N9-C4	-7.16	1.32	1.38
1	N	482	A	N9-C8	-7.15	1.32	1.37
1	N	40	C	C2-N3	-7.15	1.30	1.35
1	N	670	G	N9-C4	-7.15	1.32	1.38
1	N	918	A	N7-C5	-7.15	1.34	1.39
1	N	199	A	C5-C4	7.15	1.43	1.38
1	N	1431	A	C3'-C2'	7.15	1.60	1.52
1	N	915	A	C3'-C2'	7.15	1.60	1.52
1	N	265	G	C8-N7	-7.14	1.26	1.30
1	N	416	G	C2-N3	7.14	1.38	1.32
1	N	552	U	C2-N3	7.14	1.42	1.37
1	N	984	C	C3'-C2'	7.14	1.60	1.52
1	N	194	C	C4-N4	7.14	1.40	1.33
1	N	494	G	C2-N2	7.14	1.41	1.34
1	N	535	A	N7-C5	-7.14	1.34	1.39
1	N	1066	C	C2-N3	7.14	1.41	1.35
1	N	676	A	C6-N1	7.14	1.40	1.35
1	N	717	U	P-O5'	-7.14	1.52	1.59
1	N	374	A	C2'-C1'	-7.14	1.45	1.53
1	N	537	G	C2-N2	7.14	1.41	1.34
1	N	1525	G	N1-C2	7.14	1.43	1.37
1	N	1031	C	O3'-P	-7.13	1.52	1.61
1	N	837	U	C2-N3	7.13	1.42	1.37
1	N	166	U	C5'-C4'	7.13	1.59	1.51
1	N	710	G	C8-N7	7.13	1.35	1.30
1	N	1126	U	C2-N3	7.13	1.42	1.37
1	N	1033	G	C4'-O4'	-7.12	1.36	1.45
1	N	1171	A	N7-C5	-7.12	1.34	1.39
1	N	307	C	C4'-C3'	-7.12	1.45	1.53
1	N	263	A	N9-C8	7.12	1.43	1.37
1	N	747	A	C3'-C2'	7.12	1.60	1.52
1	N	1016	A	C5'-C4'	7.12	1.59	1.51
1	N	1459	G	C8-N7	-7.12	1.26	1.30
1	N	1048	G	C2-N3	7.12	1.38	1.32
1	N	360	G	C5-C4	-7.11	1.33	1.38
1	N	1272	G	N9-C8	7.11	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1479	C	C4-N4	7.11	1.40	1.33
1	N	1127	G	N1-C2	7.11	1.43	1.37
1	N	203	G	C6-N1	7.11	1.44	1.39
1	N	1266	G	N9-C4	-7.11	1.32	1.38
1	N	443	C	C2'-C1'	-7.11	1.45	1.53
1	N	288	A	C6-N6	7.10	1.39	1.33
1	N	338	A	P-O5'	7.10	1.66	1.59
1	N	378	G	C4'-C3'	-7.10	1.45	1.53
1	N	383	A	C8-N7	-7.10	1.26	1.31
1	N	1180	A	N3-C4	-7.10	1.30	1.34
1	N	1479	C	C1'-N1	7.10	1.59	1.48
1	N	1007	U	N3-C4	7.10	1.44	1.38
1	N	779	C	C2-N3	7.10	1.41	1.35
1	N	1137	C	C4-N4	7.10	1.40	1.33
1	N	1525	G	N9-C4	-7.10	1.32	1.38
1	N	380	G	C2'-C1'	-7.10	1.45	1.53
1	N	668	G	C6-N1	7.10	1.44	1.39
1	N	1172	C	C2'-C1'	-7.10	1.45	1.53
1	N	1438	G	N3-C4	-7.10	1.30	1.35
1	N	1076	U	C4-C5	7.09	1.50	1.43
1	N	1155	A	C5-C6	-7.09	1.34	1.41
1	N	778	G	C5-C6	-7.09	1.35	1.42
1	N	302	G	N9-C8	-7.09	1.32	1.37
1	N	826	C	C4-N4	7.09	1.40	1.33
1	N	749	A	N7-C5	-7.09	1.34	1.39
1	N	1290	G	N9-C4	-7.09	1.32	1.38
1	N	166	U	O3'-P	-7.09	1.52	1.61
1	N	500	G	C4'-C3'	7.09	1.60	1.53
1	N	1158	C	C4-N4	7.09	1.40	1.33
1	N	1205	U	C4-C5	7.09	1.50	1.43
1	N	7	A	C5'-C4'	7.08	1.59	1.51
1	N	698	G	N1-C2	7.08	1.43	1.37
1	N	627	G	N7-C5	-7.08	1.35	1.39
1	N	1101	A	C6-N6	7.08	1.39	1.33
1	N	384	G	N7-C5	-7.08	1.35	1.39
1	N	802	A	N1-C2	7.08	1.40	1.34
1	N	830	G	C6-N1	7.07	1.44	1.39
1	N	1152	A	N3-C4	7.07	1.39	1.34
1	N	1353	G	C6-N1	7.07	1.44	1.39
1	N	1338	G	N1-C2	7.07	1.43	1.37
1	N	1401	G	C2-N3	7.07	1.38	1.32
1	N	652	U	N3-C4	7.07	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1187	G	C5'-C4'	7.07	1.59	1.51
1	N	1434	A	O3'-P	-7.07	1.52	1.61
1	N	674	G	P-O5'	-7.07	1.52	1.59
1	N	718	A	C6-N1	7.07	1.40	1.35
1	N	954	G	C5'-C4'	7.07	1.59	1.51
1	N	1355	G	C2'-C1'	-7.07	1.45	1.53
1	N	115	G	C4'-C3'	7.06	1.60	1.53
1	N	690	G	C2-N2	7.06	1.41	1.34
1	N	1050	G	C2'-C1'	-7.06	1.45	1.53
1	N	996	A	P-O5'	-7.06	1.52	1.59
1	N	1433	A	P-O5'	-7.06	1.52	1.59
1	N	1024	G	N7-C5	-7.06	1.35	1.39
1	N	1167	A	C5-C6	-7.06	1.34	1.41
1	N	1284	C	N3-C4	7.06	1.38	1.33
1	N	1355	G	C2-N3	7.06	1.38	1.32
1	N	564	C	N3-C4	7.06	1.38	1.33
1	N	1021	A	N7-C5	-7.05	1.35	1.39
1	N	1452	C	C2-N3	7.05	1.41	1.35
1	N	436	C	N3-C4	7.05	1.38	1.33
1	N	579	A	C8-N7	-7.05	1.26	1.31
1	N	191	G	C2-N2	7.05	1.41	1.34
1	N	276	G	N7-C5	-7.05	1.35	1.39
1	N	1174	G	C6-N1	7.05	1.44	1.39
1	N	301	G	N9-C4	7.04	1.43	1.38
1	N	139	A	C6-N1	7.04	1.40	1.35
1	N	1367	C	P-O5'	-7.04	1.52	1.59
1	N	1375	A	C1'-N9	7.04	1.59	1.48
1	N	1071	C	C2-N3	7.04	1.41	1.35
1	N	1133	G	N1-C2	7.04	1.43	1.37
1	N	1398	A	P-O5'	-7.04	1.52	1.59
1	N	529	G	P-O5'	-7.04	1.52	1.59
1	N	649	A	C2-N3	7.04	1.39	1.33
1	N	902	G	N9-C4	-7.03	1.32	1.38
1	N	1104	G	N3-C4	-7.03	1.30	1.35
1	N	1398	A	C8-N7	7.03	1.36	1.31
1	N	198	G	N3-C4	7.03	1.40	1.35
1	N	1286	U	C2'-C1'	-7.03	1.45	1.53
1	N	50	A	C1'-N9	7.02	1.59	1.48
1	N	1225	A	C2'-C1'	-7.02	1.45	1.53
1	N	1094	G	C2-N3	7.02	1.38	1.32
1	N	1153	G	N1-C2	7.02	1.43	1.37
1	N	1329	A	N7-C5	-7.02	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	910	C	C2-N3	7.01	1.41	1.35
1	N	1500	A	N7-C5	-7.01	1.35	1.39
1	N	1502	A	N3-C4	-7.01	1.30	1.34
1	N	1262	C	C4-C5	7.01	1.48	1.43
1	N	291	U	C2-N3	7.01	1.42	1.37
1	N	718	A	C5-C4	7.01	1.43	1.38
1	N	1133	G	C5-C4	7.01	1.43	1.38
1	N	1534	A	C6-N6	7.01	1.39	1.33
1	N	112	G	C5-C4	7.01	1.43	1.38
1	N	267	C	C4-C5	7.01	1.48	1.43
1	N	302	G	C3'-O3'	7.01	1.51	1.42
1	N	553	A	C5-C4	7.01	1.43	1.38
1	N	1077	G	C4'-C3'	7.01	1.60	1.53
1	N	1133	G	C8-N7	7.01	1.35	1.30
1	N	1500	A	N3-C4	-7.01	1.30	1.34
1	N	747	A	O4'-C1'	7.00	1.50	1.41
1	N	768	A	C5'-C4'	7.00	1.59	1.51
1	N	796	C	C5-C6	7.00	1.40	1.34
1	N	859	G	C8-N7	7.00	1.35	1.30
1	N	200	G	N7-C5	-7.00	1.35	1.39
1	N	370	C	C4-N4	7.00	1.40	1.33
1	N	1505	G	N3-C4	7.00	1.40	1.35
1	N	1475	G	N9-C8	7.00	1.42	1.37
1	N	500	G	C3'-C2'	6.99	1.60	1.52
1	N	1233	G	O3'-P	-6.99	1.52	1.61
1	N	257	G	C2-N2	6.99	1.41	1.34
1	N	1030	U	C4-C5	-6.99	1.37	1.43
1	N	1231	G	C2-N2	6.99	1.41	1.34
1	N	131	A	C5-C4	6.99	1.43	1.38
1	N	773	G	P-O5'	-6.99	1.52	1.59
1	N	1259	C	P-O5'	-6.99	1.52	1.59
1	N	580	C	C1'-N1	6.99	1.59	1.48
1	N	629	A	C6-N1	6.99	1.40	1.35
1	N	919	A	N3-C4	6.99	1.39	1.34
1	N	232	G	C6-N1	6.98	1.44	1.39
1	N	1380	U	O3'-P	-6.98	1.52	1.61
1	N	1241	G	N7-C5	-6.98	1.35	1.39
1	N	1252	A	N7-C5	-6.98	1.35	1.39
1	N	323	U	C1'-N1	6.98	1.59	1.48
1	N	172	A	C5-C6	-6.98	1.34	1.41
1	N	411	A	C5'-C4'	6.98	1.59	1.51
1	N	1208	C	P-O5'	-6.98	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	372	C	C2-N3	6.98	1.41	1.35
1	N	624	C	C5'-C4'	6.97	1.59	1.51
1	N	168	G	N1-C2	6.97	1.43	1.37
1	N	948	C	C3'-C2'	-6.97	1.45	1.52
1	N	169	C	C4-C5	-6.97	1.37	1.43
1	N	1419	G	C2'-C1'	-6.97	1.45	1.53
1	N	1026	G	N9-C4	6.97	1.43	1.38
1	N	1349	A	C6-N1	6.97	1.40	1.35
1	N	359	G	N9-C8	-6.97	1.32	1.37
1	N	504	C	N3-C4	6.97	1.38	1.33
1	N	518	C	C3'-O3'	6.97	1.51	1.42
1	N	526	C	N3-C4	6.97	1.38	1.33
1	N	945	G	O3'-P	-6.97	1.52	1.61
1	N	204	G	N9-C4	6.96	1.43	1.38
1	N	505	G	O4'-C1'	6.96	1.50	1.41
1	N	245	U	C2-N3	6.96	1.42	1.37
1	N	402	G	C6-N1	6.96	1.44	1.39
1	N	1060	U	C5'-C4'	6.96	1.59	1.51
1	N	648	A	N9-C8	6.96	1.43	1.37
1	N	1331	G	P-O5'	-6.96	1.52	1.59
1	N	775	G	N7-C5	-6.95	1.35	1.39
1	N	494	G	C8-N7	-6.95	1.26	1.30
1	N	1347	G	C4'-C3'	6.95	1.60	1.53
1	N	1523	G	N9-C8	6.95	1.42	1.37
1	N	1443	C	C2'-C1'	-6.95	1.45	1.53
1	N	356	A	N7-C5	-6.95	1.35	1.39
1	N	470	C	C5-C6	-6.95	1.28	1.34
1	N	702	A	N3-C4	6.95	1.39	1.34
1	N	1039	G	C2-N3	6.95	1.38	1.32
1	N	597	G	P-O5'	-6.94	1.52	1.59
1	N	682	G	N9-C4	-6.94	1.32	1.38
1	N	1222	G	C8-N7	-6.94	1.26	1.30
1	N	439	U	C2'-C1'	-6.94	1.45	1.53
1	N	578	C	C2'-C1'	-6.94	1.45	1.53
1	N	1031	C	P-O5'	-6.94	1.52	1.59
1	N	232	G	N1-C2	6.94	1.43	1.37
1	N	323	U	N1-C2	-6.94	1.32	1.38
1	N	488	C	N3-C4	-6.94	1.29	1.33
1	N	1131	G	C5-C6	6.94	1.49	1.42
1	N	745	G	O4'-C1'	-6.93	1.32	1.41
1	N	953	G	C1'-N9	6.93	1.59	1.48
1	N	1397	C	N3-C4	6.93	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	141	G	C3'-C2'	6.93	1.60	1.52
1	N	978	A	C8-N7	-6.93	1.26	1.31
1	N	266	G	N1-C2	6.93	1.43	1.37
1	N	671	G	C5'-C4'	6.93	1.59	1.51
1	N	1300	G	C5-C4	6.93	1.43	1.38
1	N	554	A	C6-N1	6.93	1.40	1.35
1	N	1389	C	C3'-O3'	6.93	1.51	1.42
1	N	134	G	C2-N3	6.92	1.38	1.32
1	N	917	G	N9-C8	6.92	1.42	1.37
1	N	1357	A	N9-C4	-6.92	1.33	1.37
1	N	67	C	C4-C5	6.92	1.48	1.43
1	N	475	C	O3'-P	-6.92	1.52	1.61
1	N	645	G	C2-N3	6.92	1.38	1.32
1	N	786	G	N7-C5	-6.92	1.35	1.39
1	N	1306	A	C2'-C1'	-6.92	1.45	1.53
1	N	1475	G	N7-C5	6.92	1.43	1.39
1	N	330	C	C4-N4	6.92	1.40	1.33
1	N	203	G	C3'-O3'	6.91	1.51	1.42
1	N	1102	A	N1-C2	6.91	1.40	1.34
1	N	777	A	C5-C4	6.91	1.43	1.38
1	N	889	A	P-O5'	6.91	1.66	1.59
1	N	1515	G	N3-C4	6.91	1.40	1.35
1	N	198	G	C8-N7	-6.91	1.26	1.30
1	N	745	G	C2-N3	6.91	1.38	1.32
1	N	830	G	C5-C4	6.91	1.43	1.38
1	N	665	A	C5-C4	6.91	1.43	1.38
1	N	599	C	O4'-C1'	6.90	1.50	1.41
1	N	1484	C	C3'-C2'	6.90	1.60	1.52
1	N	550	G	C8-N7	6.90	1.35	1.30
1	N	834	U	C5-C6	6.90	1.40	1.34
1	N	1043	G	N3-C4	6.90	1.40	1.35
1	N	1154	G	C2-N3	6.90	1.38	1.32
1	N	1532	U	C1'-N1	6.90	1.59	1.48
1	N	285	C	N3-C4	6.89	1.38	1.33
1	N	1064	G	C5'-C4'	6.89	1.59	1.51
1	N	1031	C	C4-N4	6.89	1.40	1.33
1	N	1119	C	C1'-N1	6.89	1.59	1.48
1	N	687	A	N9-C4	-6.89	1.33	1.37
1	N	992	U	O3'-P	-6.89	1.52	1.61
1	N	1116	U	C2'-C1'	-6.89	1.45	1.53
1	N	225	C	C2-N3	6.88	1.41	1.35
1	N	827	U	C5'-C4'	6.88	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1184	G	C5-C6	-6.88	1.35	1.42
1	N	282	A	C8-N7	-6.88	1.26	1.31
1	N	709	U	N1-C2	6.88	1.44	1.38
1	N	1080	A	N3-C4	-6.88	1.30	1.34
1	N	136	C	C1'-N1	6.88	1.59	1.48
1	N	632	U	C2'-C1'	-6.88	1.45	1.53
1	N	1392	G	N1-C2	6.88	1.43	1.37
1	N	927	G	N1-C2	6.88	1.43	1.37
1	N	1297	G	P-O5'	-6.88	1.52	1.59
1	N	1476	A	P-O5'	6.88	1.66	1.59
1	N	691	G	N3-C4	6.88	1.40	1.35
1	N	818	G	N7-C5	-6.88	1.35	1.39
1	N	914	A	C8-N7	-6.88	1.26	1.31
1	N	215	C	C2-N3	-6.87	1.30	1.35
1	N	491	G	N1-C2	6.87	1.43	1.37
1	N	885	G	N3-C4	-6.87	1.30	1.35
1	N	981	U	P-O5'	6.87	1.66	1.59
1	N	1047	G	C2-N3	6.87	1.38	1.32
1	N	617	G	O3'-P	-6.87	1.52	1.61
1	N	1024	G	C2'-C1'	-6.87	1.45	1.53
1	N	1333	A	C2-N3	-6.87	1.27	1.33
1	N	416	G	N9-C8	6.87	1.42	1.37
1	N	853	C	N1-C6	-6.87	1.33	1.37
1	N	1272	G	N1-C2	6.87	1.43	1.37
1	N	64	G	C5-C4	6.87	1.43	1.38
1	N	191	G	C2'-C1'	-6.87	1.45	1.53
1	N	250	A	N7-C5	-6.87	1.35	1.39
1	N	540	G	C2-N3	6.87	1.38	1.32
1	N	464	U	N1-C6	6.86	1.44	1.38
1	N	1216	A	C6-N6	6.86	1.39	1.33
1	N	318	G	C6-N1	6.86	1.44	1.39
1	N	427	U	N3-C4	6.86	1.44	1.38
1	N	15	G	C6-N1	6.86	1.44	1.39
1	N	197	A	C4'-C3'	6.86	1.60	1.53
1	N	492	C	C4-N4	6.86	1.40	1.33
1	N	654	G	N1-C2	6.86	1.43	1.37
1	N	1117	A	C6-N6	6.86	1.39	1.33
1	N	629	A	C5-C4	6.86	1.43	1.38
1	N	1072	G	C4'-C3'	6.85	1.60	1.53
1	N	706	A	N9-C8	6.85	1.43	1.37
1	N	179	A	O3'-P	6.85	1.69	1.61
1	N	301	G	N1-C2	6.85	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	465	A	C4'-C3'	6.85	1.60	1.53
1	N	1170	A	C5-C6	-6.85	1.34	1.41
1	N	339	C	N3-C4	6.85	1.38	1.33
1	N	530	G	P-O5'	-6.85	1.52	1.59
1	N	1177	G	C1'-N9	6.85	1.59	1.48
1	N	1405	G	C4'-C3'	6.85	1.60	1.53
1	N	734	G	N7-C5	-6.85	1.35	1.39
1	N	981	U	C4'-C3'	6.85	1.60	1.53
1	N	230	G	C2'-C1'	-6.84	1.45	1.53
1	N	529	G	N7-C5	6.84	1.43	1.39
1	N	1274	A	N3-C4	6.84	1.39	1.34
1	N	447	G	C8-N7	6.84	1.35	1.30
1	N	795	C	C1'-N1	6.84	1.59	1.48
1	N	941	G	C5-C4	6.84	1.43	1.38
1	N	1188	A	C5-C6	-6.84	1.34	1.41
1	N	378	G	C3'-C2'	-6.84	1.45	1.52
1	N	1144	G	N3-C4	-6.84	1.30	1.35
1	N	102	G	C6-N1	6.84	1.44	1.39
1	N	924	C	C4'-C3'	6.84	1.60	1.53
1	N	944	G	N7-C5	-6.84	1.35	1.39
1	N	1529	G	C5-C4	6.84	1.43	1.38
1	N	331	G	N1-C2	6.83	1.43	1.37
1	N	304	U	O4'-C1'	6.83	1.50	1.41
1	N	1163	A	C5-C6	-6.83	1.34	1.41
1	N	1191	A	C2'-C1'	-6.83	1.45	1.53
1	N	695	A	C8-N7	-6.83	1.26	1.31
1	N	1134	G	C4'-C3'	-6.83	1.45	1.53
1	N	1421	G	C2'-C1'	-6.83	1.45	1.53
1	N	638	U	C4-C5	6.83	1.49	1.43
1	N	1064	G	C2-N2	6.83	1.41	1.34
1	N	1315	U	C3'-C2'	6.83	1.60	1.52
1	N	407	U	C2-N3	6.82	1.42	1.37
1	N	691	G	C2-N3	6.82	1.38	1.32
1	N	1110	A	N9-C8	6.82	1.43	1.37
1	N	326	G	N1-C2	6.82	1.43	1.37
1	N	1428	A	C6-N1	6.82	1.40	1.35
1	N	306	A	C5-C4	6.82	1.43	1.38
1	N	1076	U	N1-C6	6.82	1.44	1.38
1	N	416	G	N9-C4	-6.82	1.32	1.38
1	N	965	U	C5'-C4'	6.82	1.59	1.51
1	N	687	A	C4'-C3'	6.81	1.60	1.53
1	N	119	A	C8-N7	-6.81	1.26	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	262	A	C8-N7	-6.81	1.26	1.31
1	N	443	C	C2-N3	-6.81	1.30	1.35
1	N	731	G	N1-C2	6.81	1.43	1.37
1	N	1262	C	C2-O2	6.81	1.30	1.24
1	N	24	U	C2-O2	6.81	1.28	1.22
1	N	513	C	P-O5'	-6.81	1.52	1.59
1	N	167	A	N7-C5	-6.81	1.35	1.39
1	N	670	G	N7-C5	-6.81	1.35	1.39
1	N	750	C	C2-N3	6.81	1.41	1.35
1	N	284	C	N3-C4	6.81	1.38	1.33
1	N	372	C	N1-C6	6.81	1.41	1.37
1	N	461	A	C6-N6	6.81	1.39	1.33
1	N	1290	G	C8-N7	-6.81	1.26	1.30
1	N	913	A	C2'-O2'	-6.80	1.32	1.41
1	N	1421	G	N9-C4	-6.80	1.32	1.38
1	N	258	G	P-O5'	-6.80	1.52	1.59
1	N	74	A	C5'-C4'	6.80	1.59	1.51
1	N	666	G	C8-N7	6.80	1.35	1.30
1	N	700	G	N9-C8	6.80	1.42	1.37
1	N	1340	A	O3'-P	-6.80	1.52	1.61
1	N	49	U	P-O5'	-6.80	1.52	1.59
1	N	466	A	N7-C5	-6.80	1.35	1.39
1	N	864	A	C6-N6	6.80	1.39	1.33
1	N	1102	A	C3'-O3'	6.80	1.51	1.42
1	N	467	U	C4'-O4'	-6.80	1.36	1.45
1	N	1085	U	N3-C4	6.80	1.44	1.38
1	N	350	G	C2'-C1'	-6.79	1.45	1.53
1	N	683	G	C5-C6	-6.79	1.35	1.42
1	N	45	G	N9-C8	6.79	1.42	1.37
1	N	433	G	C2-N3	6.79	1.38	1.32
1	N	262	A	C6-N6	6.79	1.39	1.33
1	N	312	C	C4-C5	6.79	1.48	1.43
1	N	571	U	C1'-N1	6.79	1.58	1.48
1	N	1497	G	P-O5'	-6.79	1.52	1.59
1	N	1125	U	C3'-C2'	-6.79	1.45	1.52
1	N	114	U	N1-C2	-6.79	1.32	1.38
1	N	274	A	C6-N6	6.79	1.39	1.33
1	N	514	C	C5-C6	-6.79	1.28	1.34
1	N	784	A	C2'-C1'	-6.79	1.45	1.53
1	N	731	G	C2'-C1'	-6.78	1.45	1.53
1	N	1515	G	P-O5'	-6.78	1.52	1.59
1	N	757	U	C1'-N1	6.78	1.58	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1499	A	C3'-O3'	6.78	1.51	1.42
1	N	1063	C	C4-N4	6.78	1.40	1.33
1	N	1136	C	N3-C4	6.78	1.38	1.33
1	N	1529	G	C4'-O4'	-6.78	1.36	1.45
1	N	881	G	N9-C8	-6.78	1.33	1.37
1	N	1137	C	N3-C4	6.78	1.38	1.33
1	N	457	G	C6-N1	6.77	1.44	1.39
1	N	1177	G	N3-C4	6.77	1.40	1.35
1	N	311	C	P-O5'	-6.77	1.52	1.59
1	N	507	C	N1-C6	-6.77	1.33	1.37
1	N	518	C	C2-N3	6.77	1.41	1.35
1	N	249	U	C4-C5	6.77	1.49	1.43
1	N	465	A	N9-C8	6.77	1.43	1.37
1	N	602	A	C5'-C4'	6.77	1.59	1.51
1	N	1387	G	O3'-P	-6.77	1.53	1.61
1	N	1038	C	C2-N3	6.76	1.41	1.35
1	N	755	G	N9-C8	-6.76	1.33	1.37
1	N	840	C	C2-N3	6.76	1.41	1.35
1	N	1226	C	C5'-C4'	6.76	1.59	1.51
1	N	1323	G	C2'-C1'	-6.76	1.46	1.53
1	N	1419	G	P-O5'	6.76	1.66	1.59
1	N	246	A	O4'-C1'	6.76	1.50	1.41
1	N	352	C	N3-C4	6.76	1.38	1.33
1	N	776	G	C5-C4	-6.76	1.33	1.38
1	N	1339	A	C8-N7	6.76	1.36	1.31
1	N	129	A	C2-N3	6.75	1.39	1.33
1	N	1379	G	C8-N7	-6.75	1.26	1.30
1	N	1491	G	N7-C5	-6.75	1.35	1.39
1	N	749	A	N9-C4	-6.75	1.33	1.37
1	N	83	C	C2-N3	6.75	1.41	1.35
1	N	1204	A	C4'-C3'	-6.75	1.45	1.53
1	N	230	G	N3-C4	-6.75	1.30	1.35
1	N	403	C	C4-N4	6.75	1.40	1.33
1	N	764	C	C4-N4	6.75	1.40	1.33
1	N	1118	U	C2-N3	6.75	1.42	1.37
1	N	710	G	C5'-C4'	6.74	1.59	1.51
1	N	1072	G	C8-N7	-6.74	1.26	1.30
1	N	1452	C	C4'-C3'	6.74	1.60	1.53
1	N	360	G	C2-N3	6.74	1.38	1.32
1	N	705	G	C2-N3	6.74	1.38	1.32
1	N	17	U	C4'-C3'	6.74	1.60	1.53
1	N	35	G	O3'-P	-6.74	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	473	U	C4-C5	6.74	1.49	1.43
1	N	1054	C	N1-C6	-6.74	1.33	1.37
1	N	1083	U	N3-C4	6.74	1.44	1.38
1	N	1360	A	C3'-O3'	6.74	1.51	1.42
1	N	67	C	C1'-N1	6.74	1.58	1.48
1	N	973	G	N1-C2	6.74	1.43	1.37
1	N	88	U	N1-C2	6.74	1.44	1.38
1	N	310	G	C8-N7	6.74	1.34	1.30
1	N	689	C	C4-N4	6.74	1.40	1.33
1	N	816	A	N9-C8	6.74	1.43	1.37
1	N	213	G	C4'-O4'	-6.73	1.36	1.45
1	N	552	U	N1-C2	6.73	1.44	1.38
1	N	1392	G	N9-C8	6.73	1.42	1.37
1	N	1455	G	N1-C2	6.73	1.43	1.37
1	N	177	G	C5-C4	-6.73	1.33	1.38
1	N	518	C	N1-C6	6.73	1.41	1.37
1	N	601	G	C2-N3	6.73	1.38	1.32
1	N	693	G	C2-N2	6.73	1.41	1.34
1	N	1182	G	C5-C4	-6.73	1.33	1.38
1	N	1092	A	C6-N6	6.73	1.39	1.33
1	N	1325	C	C5'-C4'	6.73	1.59	1.51
1	N	550	G	C3'-O3'	6.72	1.51	1.42
1	N	1268	G	N7-C5	-6.72	1.35	1.39
1	N	1506	U	C5'-C4'	6.72	1.59	1.51
1	N	86	G	C2-N3	6.72	1.38	1.32
1	N	270	A	N7-C5	-6.72	1.35	1.39
1	N	468	A	C4'-C3'	-6.72	1.45	1.53
1	N	1523	G	C5-C6	-6.72	1.35	1.42
1	N	431	A	O4'-C1'	6.72	1.50	1.41
1	N	1124	G	O4'-C1'	-6.72	1.32	1.41
1	N	1146	A	N3-C4	6.72	1.38	1.34
1	N	589	U	C2-N3	6.72	1.42	1.37
1	N	772	U	N3-C4	6.72	1.44	1.38
1	N	1087	G	C5'-C4'	6.71	1.59	1.51
1	N	293	G	C2'-O2'	-6.71	1.32	1.41
1	N	527	G	N1-C2	6.71	1.43	1.37
1	N	761	G	C6-N1	6.71	1.44	1.39
1	N	1142	G	P-O5'	-6.71	1.53	1.59
1	N	1356	G	N3-C4	6.71	1.40	1.35
1	N	868	C	C2'-C1'	6.71	1.60	1.53
1	N	69	G	C2-N3	6.71	1.38	1.32
1	N	77	A	C6-N1	6.71	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	239	U	C4'-C3'	6.71	1.60	1.53
1	N	1332	A	N9-C8	6.71	1.43	1.37
1	N	535	A	C8-N7	-6.70	1.26	1.31
1	N	1331	G	N7-C5	-6.70	1.35	1.39
1	N	1013	G	C2-N3	6.70	1.38	1.32
1	N	1289	A	C2'-C1'	-6.70	1.46	1.53
1	N	439	U	C3'-O3'	6.70	1.51	1.42
1	N	449	G	C8-N7	-6.70	1.26	1.30
1	N	1061	G	C2-N3	-6.70	1.27	1.32
1	N	1089	G	C2-N3	6.70	1.38	1.32
1	N	1119	C	P-O5'	-6.70	1.53	1.59
1	N	17	U	C5'-C4'	6.70	1.59	1.51
1	N	152	A	C6-N6	6.70	1.39	1.33
1	N	527	G	C8-N7	-6.70	1.26	1.30
1	N	693	G	N3-C4	6.70	1.40	1.35
1	N	798	U	N1-C2	6.70	1.44	1.38
1	N	1365	G	C2'-C1'	-6.70	1.46	1.53
1	N	1499	A	N9-C8	6.70	1.43	1.37
1	N	1435	G	N9-C8	6.69	1.42	1.37
1	N	730	G	C4'-C3'	6.69	1.60	1.53
1	N	1182	G	C8-N7	-6.69	1.26	1.30
1	N	1113	C	C2-N3	6.69	1.41	1.35
1	N	649	A	N7-C5	-6.69	1.35	1.39
1	N	722	G	P-O5'	-6.69	1.53	1.59
1	N	696	A	C6-N6	6.68	1.39	1.33
1	N	1032	G	N1-C2	6.68	1.43	1.37
1	N	1237	C	C5-C6	6.68	1.39	1.34
1	N	404	G	C4'-C3'	-6.68	1.45	1.53
1	N	918	A	C5-C4	6.68	1.43	1.38
1	N	89	U	P-O5'	-6.68	1.53	1.59
1	N	1261	A	C5'-C4'	6.68	1.59	1.51
1	N	1513	A	C6-N6	6.68	1.39	1.33
1	N	906	A	N1-C2	6.68	1.40	1.34
1	N	300	A	N7-C5	-6.67	1.35	1.39
1	N	735	C	C5'-C4'	6.67	1.59	1.51
1	N	233	C	N3-C4	6.67	1.38	1.33
1	N	415	A	C6-N1	-6.67	1.30	1.35
1	N	144	G	P-O5'	-6.67	1.53	1.59
1	N	1096	C	N3-C4	6.67	1.38	1.33
1	N	1526	G	N1-C2	6.67	1.43	1.37
1	N	1072	G	N3-C4	6.67	1.40	1.35
1	N	1208	C	N3-C4	6.67	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	404	G	N9-C4	6.67	1.43	1.38
1	N	951	G	N9-C8	6.67	1.42	1.37
1	N	193	C	P-O5'	-6.67	1.53	1.59
1	N	246	A	C6-N1	6.67	1.40	1.35
1	N	485	U	C2-O2	-6.67	1.16	1.22
1	N	206	C	P-O5'	-6.67	1.53	1.59
1	N	1316	G	C2-N3	6.67	1.38	1.32
1	N	353	A	C6-N6	6.66	1.39	1.33
1	N	778	G	N9-C4	-6.66	1.32	1.38
1	N	910	C	C4-N4	6.66	1.40	1.33
1	N	1453	G	C5-C4	6.66	1.43	1.38
1	N	202	G	N3-C4	6.66	1.40	1.35
1	N	370	C	C3'-C2'	-6.66	1.45	1.52
1	N	1059	C	C5'-C4'	6.66	1.59	1.51
1	N	1279	G	N3-C4	-6.66	1.30	1.35
1	N	1283	U	C2-N3	6.66	1.42	1.37
1	N	906	A	C5-C4	-6.66	1.34	1.38
1	N	656	G	C5-C4	-6.66	1.33	1.38
1	N	929	G	C2-N3	6.65	1.38	1.32
1	N	1316	G	N7-C5	-6.65	1.35	1.39
1	N	557	G	C5-C4	6.65	1.43	1.38
1	N	1147	C	N1-C6	6.65	1.41	1.37
1	N	1261	A	N1-C2	6.65	1.40	1.34
1	N	1324	A	P-O5'	-6.65	1.53	1.59
1	N	119	A	C6-N6	6.65	1.39	1.33
1	N	237	G	N3-C4	-6.65	1.30	1.35
1	N	874	G	C2-N2	6.65	1.41	1.34
1	N	393	A	C5-C4	6.65	1.43	1.38
1	N	600	A	C6-N6	6.65	1.39	1.33
1	N	978	A	C5-C4	6.65	1.43	1.38
1	N	421	U	N1-C2	6.65	1.44	1.38
1	N	595	A	O4'-C1'	-6.64	1.33	1.41
1	N	35	G	C5-C4	-6.64	1.33	1.38
1	N	244	U	N1-C2	6.64	1.44	1.38
1	N	505	G	C8-N7	-6.64	1.26	1.30
1	N	1255	G	C2'-C1'	6.64	1.60	1.53
1	N	1386	G	N3-C4	-6.64	1.30	1.35
1	N	106	C	C4-C5	-6.64	1.37	1.43
1	N	356	A	C4'-C3'	6.64	1.60	1.53
1	N	500	G	C6-N1	6.64	1.44	1.39
1	N	815	A	C6-N6	6.64	1.39	1.33
1	N	1177	G	C5-C6	-6.64	1.35	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1327	C	N1-C6	6.64	1.41	1.37
1	N	1470	U	P-O5'	-6.64	1.53	1.59
1	N	617	G	N7-C5	-6.64	1.35	1.39
1	N	316	C	N3-C4	6.64	1.38	1.33
1	N	247	G	N1-C2	6.63	1.43	1.37
1	N	497	G	C4'-O4'	-6.63	1.36	1.45
1	N	508	U	C1'-N1	6.63	1.58	1.48
1	N	580	C	P-O5'	-6.63	1.53	1.59
1	N	537	G	C6-O6	-6.63	1.18	1.24
1	N	1271	A	N3-C4	6.63	1.38	1.34
1	N	1386	G	C3'-O3'	6.63	1.51	1.42
1	N	390	U	C4-C5	6.63	1.49	1.43
1	N	1196	A	C5'-C4'	6.63	1.59	1.51
1	N	1334	G	C5-C6	-6.63	1.35	1.42
1	N	164	G	N1-C2	6.63	1.43	1.37
1	N	1393	U	N1-C6	6.63	1.44	1.38
1	N	36	C	N1-C2	6.62	1.46	1.40
1	N	321	A	N7-C5	-6.62	1.35	1.39
1	N	468	A	C8-N7	-6.62	1.26	1.31
1	N	592	G	C6-N1	6.62	1.44	1.39
1	N	938	A	N7-C5	-6.62	1.35	1.39
1	N	737	C	C3'-O3'	6.62	1.51	1.42
1	N	860	A	N3-C4	-6.62	1.30	1.34
1	N	780	A	C5-C6	6.62	1.47	1.41
1	N	1206	G	N7-C5	-6.62	1.35	1.39
1	N	206	C	N1-C6	6.62	1.41	1.37
1	N	59	A	O3'-P	-6.61	1.53	1.61
1	N	277	C	C4-N4	6.61	1.40	1.33
1	N	393	A	N3-C4	-6.61	1.30	1.34
1	N	824	G	C5-C4	-6.61	1.33	1.38
1	N	148	G	C8-N7	-6.61	1.26	1.30
1	N	451	A	C6-N6	6.61	1.39	1.33
1	N	911	U	C5-C6	6.61	1.40	1.34
1	N	91	U	C2'-C1'	-6.61	1.46	1.53
1	N	361	G	P-O5'	-6.61	1.53	1.59
1	N	733	G	N1-C2	6.61	1.43	1.37
1	N	1257	A	O4'-C1'	6.61	1.50	1.41
1	N	1405	G	C2-N3	6.61	1.38	1.32
1	N	236	A	N7-C5	-6.61	1.35	1.39
1	N	1019	A	C5-C4	6.61	1.43	1.38
1	N	559	A	C6-N6	6.60	1.39	1.33
1	N	868	C	O3'-P	-6.60	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1101	A	P-O5'	-6.60	1.53	1.59
1	N	1443	C	N1-C6	6.60	1.41	1.37
1	N	1463	U	C2-N3	6.60	1.42	1.37
1	N	381	C	N1-C6	6.60	1.41	1.37
1	N	219	U	C2-N3	6.60	1.42	1.37
1	N	450	G	C8-N7	-6.60	1.26	1.30
1	N	1400	C	N1-C2	-6.60	1.33	1.40
1	N	1512	U	C3'-C2'	6.60	1.60	1.52
1	N	468	A	C6-N1	6.60	1.40	1.35
1	N	1062	U	P-O5'	-6.60	1.53	1.59
1	N	1070	U	O4'-C1'	6.60	1.50	1.41
1	N	808	C	N3-C4	6.60	1.38	1.33
1	N	1005	A	N7-C5	-6.60	1.35	1.39
1	N	1098	C	C4-N4	6.60	1.39	1.33
1	N	1047	G	N7-C5	-6.59	1.35	1.39
1	N	569	C	C5'-C4'	6.59	1.59	1.51
1	N	59	A	C6-N1	6.59	1.40	1.35
1	N	159	G	C4'-C3'	-6.59	1.45	1.53
1	N	859	G	C5-C6	-6.59	1.35	1.42
1	N	1401	G	C8-N7	6.59	1.34	1.30
1	N	1423	G	C5-C4	6.59	1.43	1.38
1	N	941	G	C2-N3	6.59	1.38	1.32
1	N	999	C	N3-C4	6.59	1.38	1.33
1	N	627	G	C5'-C4'	6.59	1.59	1.51
1	N	54	C	C5-C6	-6.59	1.29	1.34
1	N	453	G	C5-C4	-6.59	1.33	1.38
1	N	639	G	N1-C2	6.59	1.43	1.37
1	N	222	C	N3-C4	6.58	1.38	1.33
1	N	651	C	C3'-C2'	6.58	1.60	1.52
1	N	1321	U	C5'-C4'	6.58	1.59	1.51
1	N	710	G	C6-N1	6.58	1.44	1.39
1	N	747	A	C6-N1	6.58	1.40	1.35
1	N	348	G	C2-N2	6.58	1.41	1.34
1	N	236	A	C2'-C1'	-6.58	1.46	1.53
1	N	1396	A	C2'-C1'	-6.58	1.46	1.53
1	N	130	A	C3'-C2'	6.58	1.60	1.52
1	N	198	G	N1-C2	6.58	1.43	1.37
1	N	212	G	N1-C2	6.58	1.43	1.37
1	N	457	G	N7-C5	-6.58	1.35	1.39
1	N	560	A	N9-C8	6.58	1.43	1.37
1	N	1114	C	C2-O2	-6.58	1.18	1.24
1	N	61	G	N7-C5	-6.58	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	407	U	O4'-C1'	6.58	1.50	1.41
1	N	760	G	N3-C4	-6.58	1.30	1.35
1	N	937	A	N7-C5	6.58	1.43	1.39
1	N	1040	U	P-O5'	-6.58	1.53	1.59
1	N	1112	C	C4'-C3'	6.58	1.60	1.53
1	N	1181	G	C2-N2	-6.58	1.27	1.34
1	N	1206	G	C2-N3	6.58	1.38	1.32
1	N	224	U	N3-C4	6.57	1.44	1.38
1	N	1373	G	C6-N1	6.57	1.44	1.39
1	N	435	A	O4'-C1'	6.57	1.50	1.41
1	N	786	G	N1-C2	6.57	1.43	1.37
1	N	851	G	C5-C4	6.57	1.43	1.38
1	N	357	G	N9-C4	-6.57	1.32	1.38
1	N	257	G	C6-O6	-6.57	1.18	1.24
1	N	1364	U	P-O5'	6.57	1.66	1.59
1	N	14	U	C2-N3	6.57	1.42	1.37
1	N	585	G	O3'-P	-6.57	1.53	1.61
1	N	1053	G	C6-N1	6.57	1.44	1.39
1	N	1318	A	C2'-C1'	-6.57	1.46	1.53
1	N	1476	A	C5-C6	-6.57	1.35	1.41
1	N	1000	A	C3'-O3'	6.57	1.51	1.42
1	N	296	U	N1-C2	-6.56	1.32	1.38
1	N	166	U	P-O5'	-6.56	1.53	1.59
1	N	253	A	N1-C2	6.56	1.40	1.34
1	N	1125	U	P-O5'	-6.56	1.53	1.59
1	N	1276	G	N1-C2	6.56	1.43	1.37
1	N	1138	G	C6-N1	6.56	1.44	1.39
1	N	698	G	N9-C8	6.56	1.42	1.37
1	N	1249	C	C4-C5	6.56	1.48	1.43
1	N	434	U	C2'-C1'	-6.56	1.46	1.53
1	N	422	C	N3-C4	6.56	1.38	1.33
1	N	989	U	C2-N3	6.56	1.42	1.37
1	N	1184	G	N9-C4	-6.56	1.32	1.38
1	N	1516	G	N3-C4	-6.56	1.30	1.35
1	N	1105	A	N9-C4	-6.55	1.33	1.37
1	N	106	C	P-O5'	-6.55	1.53	1.59
1	N	584	G	C5-C4	6.55	1.43	1.38
1	N	184	G	C5-C4	6.55	1.43	1.38
1	N	448	A	P-O5'	-6.55	1.53	1.59
1	N	1153	G	C4'-C3'	6.55	1.60	1.53
1	N	1449	C	C4-N4	6.55	1.39	1.33
1	N	1135	U	P-O5'	6.55	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1355	G	N9-C8	6.55	1.42	1.37
1	N	1002	G	P-O5'	6.55	1.66	1.59
1	N	490	C	O3'-P	-6.55	1.53	1.61
1	N	662	U	C2-N3	-6.55	1.33	1.37
1	N	1319	A	C4'-O4'	-6.55	1.37	1.45
1	N	1447	A	P-O5'	-6.55	1.53	1.59
1	N	457	G	C3'-O3'	6.54	1.51	1.42
1	N	165	G	C2-N3	6.54	1.38	1.32
1	N	885	G	N9-C4	-6.54	1.32	1.38
1	N	1167	A	O4'-C1'	-6.54	1.33	1.41
1	N	1285	A	C5-C4	-6.54	1.34	1.38
1	N	1341	U	C2-N3	6.54	1.42	1.37
1	N	489	C	C4-C5	-6.54	1.37	1.43
1	N	528	C	C2'-C1'	-6.54	1.46	1.53
1	N	966	G	O3'-P	-6.54	1.53	1.61
1	N	1234	C	C3'-C2'	-6.54	1.45	1.52
1	N	1447	A	C5-C4	6.54	1.43	1.38
1	N	594	U	C2-N3	6.54	1.42	1.37
1	N	46	G	N1-C2	6.54	1.43	1.37
1	N	380	G	C5-C6	-6.54	1.35	1.42
1	N	951	G	N1-C2	6.54	1.43	1.37
1	N	791	G	N7-C5	-6.53	1.35	1.39
1	N	1256	A	N9-C4	-6.53	1.33	1.37
1	N	1523	G	C8-N7	6.53	1.34	1.30
1	N	731	G	C4'-O4'	6.53	1.54	1.45
1	N	1387	G	C2-N2	6.53	1.41	1.34
1	N	587	G	N3-C4	6.53	1.40	1.35
1	N	1219	A	N9-C8	6.53	1.43	1.37
1	N	113	G	N1-C2	6.53	1.43	1.37
1	N	970	C	C4-N4	6.53	1.39	1.33
1	N	842	U	C1'-N1	6.53	1.58	1.48
1	N	888	G	C8-N7	-6.53	1.27	1.30
1	N	1505	G	C6-N1	6.53	1.44	1.39
1	N	122	G	C5'-C4'	6.53	1.59	1.51
1	N	364	A	C6-N6	6.53	1.39	1.33
1	N	730	G	N1-C2	6.53	1.43	1.37
1	N	887	G	N3-C4	-6.52	1.30	1.35
1	N	249	U	P-O5'	-6.52	1.53	1.59
1	N	254	G	C4'-C3'	6.52	1.60	1.53
1	N	511	C	O3'-P	-6.52	1.53	1.61
1	N	665	A	N7-C5	-6.52	1.35	1.39
1	N	1031	C	C3'-O3'	6.52	1.51	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	357	G	C2-N3	6.52	1.38	1.32
1	N	918	A	C5-C6	-6.52	1.35	1.41
1	N	923	A	N9-C8	-6.52	1.32	1.37
1	N	961	U	N1-C6	6.52	1.43	1.38
1	N	112	G	C6-N1	6.52	1.44	1.39
1	N	128	G	C5-C4	-6.52	1.33	1.38
1	N	1183	U	N1-C6	6.52	1.43	1.38
1	N	1302	C	P-O5'	-6.52	1.53	1.59
1	N	1496	C	C4-N4	6.51	1.39	1.33
1	N	775	G	C2-N3	6.51	1.38	1.32
1	N	420	U	N3-C4	6.51	1.44	1.38
1	N	1140	C	N1-C6	-6.51	1.33	1.37
1	N	1473	G	N9-C4	-6.51	1.32	1.38
1	N	1386	G	P-O5'	-6.51	1.53	1.59
1	N	1238	A	O3'-P	-6.51	1.53	1.61
1	N	113	G	C6-N1	6.51	1.44	1.39
1	N	319	G	N1-C2	6.51	1.43	1.37
1	N	415	A	O4'-C1'	6.51	1.50	1.41
1	N	669	G	N9-C8	-6.51	1.33	1.37
1	N	1200	C	C2-O2	-6.51	1.18	1.24
1	N	1391	U	C2-N3	6.51	1.42	1.37
1	N	1174	G	C3'-C2'	-6.50	1.45	1.52
1	N	690	G	N7-C5	-6.50	1.35	1.39
1	N	427	U	C5-C6	6.50	1.40	1.34
1	N	798	U	O3'-P	-6.50	1.53	1.61
1	N	837	U	C3'-C2'	-6.50	1.45	1.52
1	N	1140	C	C2-N3	6.50	1.41	1.35
1	N	107	G	N3-C4	6.50	1.40	1.35
1	N	178	C	P-O5'	-6.50	1.53	1.59
1	N	1145	A	C6-N6	6.49	1.39	1.33
1	N	1464	U	C2-N3	6.49	1.42	1.37
1	N	455	G	C4'-C3'	6.49	1.60	1.53
1	N	544	G	C8-N7	6.49	1.34	1.30
1	N	805	C	C4-C5	6.49	1.48	1.43
1	N	1221	G	C8-N7	-6.49	1.27	1.30
1	N	459	A	C8-N7	-6.49	1.27	1.31
1	N	1148	U	C2-N3	6.49	1.42	1.37
1	N	1152	A	P-O5'	6.49	1.66	1.59
1	N	1334	G	C4'-C3'	6.49	1.60	1.53
1	N	179	A	N9-C8	6.49	1.43	1.37
1	N	783	C	C1'-N1	6.49	1.58	1.48
1	N	1103	C	N3-C4	6.49	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1016	A	N9-C8	-6.49	1.32	1.37
1	N	1328	C	C4'-C3'	-6.49	1.46	1.53
1	N	1436	U	C2'-O2'	-6.48	1.33	1.41
1	N	11	G	N1-C2	6.48	1.43	1.37
1	N	300	A	C6-N1	-6.48	1.31	1.35
1	N	466	A	N9-C4	6.48	1.41	1.37
1	N	592	G	N1-C2	6.48	1.43	1.37
1	N	694	A	C6-N1	6.48	1.40	1.35
1	N	892	A	N1-C2	6.48	1.40	1.34
1	N	1434	A	P-O5'	-6.48	1.53	1.59
1	N	910	C	N3-C4	6.48	1.38	1.33
1	N	287	U	C2'-C1'	6.48	1.60	1.53
1	N	309	A	N7-C5	-6.48	1.35	1.39
1	N	578	C	N3-C4	6.48	1.38	1.33
1	N	1096	C	C2-N3	6.48	1.41	1.35
1	N	482	A	C5-C4	-6.48	1.34	1.38
1	N	571	U	N3-C4	6.47	1.44	1.38
1	N	1162	C	C2'-O2'	-6.47	1.33	1.41
1	N	486	U	C2'-C1'	-6.47	1.46	1.53
1	N	855	U	C2-N3	-6.47	1.33	1.37
1	N	320	A	N9-C4	-6.47	1.33	1.37
1	N	632	U	C2-O2	6.47	1.28	1.22
1	N	1131	G	O4'-C1'	6.47	1.50	1.41
1	N	356	A	C8-N7	-6.47	1.27	1.31
1	N	907	A	C4'-C3'	6.47	1.60	1.53
1	N	1089	G	N1-C2	6.47	1.43	1.37
1	N	1524	C	C4'-C3'	6.46	1.60	1.53
1	N	944	G	C2'-C1'	-6.46	1.46	1.53
1	N	1134	G	N1-C2	6.46	1.43	1.37
1	N	1208	C	C4-C5	6.46	1.48	1.43
1	N	576	C	C4-N4	6.46	1.39	1.33
1	N	973	G	C3'-C2'	6.46	1.60	1.52
1	N	164	G	C2-N2	6.46	1.41	1.34
1	N	305	G	C2-N3	6.46	1.38	1.32
1	N	542	G	N9-C4	-6.46	1.32	1.38
1	N	926	G	N3-C4	-6.46	1.30	1.35
1	N	322	C	C4-C5	6.46	1.48	1.43
1	N	732	C	C2'-C1'	-6.46	1.46	1.53
1	N	1344	C	N1-C6	6.46	1.41	1.37
1	N	1134	G	N9-C4	-6.45	1.32	1.38
1	N	1107	C	C5'-C4'	6.45	1.59	1.51
1	N	1396	A	C5'-C4'	6.45	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	347	G	C1'-N9	6.45	1.58	1.48
1	N	687	A	C5-C6	6.45	1.46	1.41
1	N	792	A	C5'-C4'	6.45	1.59	1.51
1	N	939	G	N7-C5	6.45	1.43	1.39
1	N	1088	G	C2-N3	6.45	1.38	1.32
1	N	1438	G	C8-N7	-6.45	1.27	1.30
1	N	465	A	C2'-C1'	-6.45	1.46	1.53
1	N	566	G	C6-N1	6.45	1.44	1.39
1	N	1286	U	N1-C6	-6.45	1.32	1.38
1	N	6	G	N7-C5	6.45	1.43	1.39
1	N	1432	G	N7-C5	-6.45	1.35	1.39
1	N	624	C	N1-C6	6.45	1.41	1.37
1	N	1263	C	O3'-P	-6.44	1.53	1.61
1	N	120	A	O4'-C1'	-6.44	1.33	1.41
1	N	199	A	C2'-C1'	-6.44	1.46	1.53
1	N	201	G	N3-C4	-6.44	1.30	1.35
1	N	939	G	C2-N3	6.44	1.38	1.32
1	N	1266	G	C5'-C4'	6.44	1.59	1.51
1	N	80	A	N7-C5	-6.44	1.35	1.39
1	N	301	G	N7-C5	6.44	1.43	1.39
1	N	349	A	N9-C8	6.44	1.43	1.37
1	N	718	A	C4'-C3'	6.44	1.60	1.53
1	N	94	G	N1-C2	6.44	1.43	1.37
1	N	148	G	C3'-C2'	-6.44	1.45	1.52
1	N	215	C	C3'-C2'	6.44	1.60	1.52
1	N	456	A	N7-C5	6.44	1.43	1.39
1	N	576	C	N1-C6	6.44	1.41	1.37
1	N	1037	C	N3-C4	6.44	1.38	1.33
1	N	1221	G	P-O5'	-6.44	1.53	1.59
1	N	1087	G	C4'-C3'	-6.44	1.46	1.53
1	N	366	A	C2'-C1'	-6.43	1.46	1.53
1	N	1364	U	N3-C4	6.43	1.44	1.38
1	N	703	G	C2-N3	6.43	1.37	1.32
1	N	114	U	N1-C6	6.43	1.43	1.38
1	N	620	C	C4-N4	6.43	1.39	1.33
1	N	928	G	N3-C4	6.43	1.40	1.35
1	N	938	A	C3'-O3'	6.43	1.51	1.42
1	N	1346	A	C6-N6	6.43	1.39	1.33
1	N	696	A	C2'-C1'	-6.43	1.46	1.53
1	N	1471	U	C3'-C2'	-6.43	1.45	1.52
1	N	64	G	N9-C8	6.43	1.42	1.37
1	N	349	A	C5-C4	6.43	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1046	A	C4'-C3'	6.43	1.60	1.53
1	N	1329	A	C8-N7	-6.43	1.27	1.31
1	N	1124	G	N1-C2	6.42	1.42	1.37
1	N	1455	G	C5'-C4'	6.42	1.59	1.51
1	N	1500	A	C5-C4	6.42	1.43	1.38
1	N	21	G	C3'-C2'	-6.42	1.45	1.52
1	N	661	G	N7-C5	-6.42	1.35	1.39
1	N	666	G	C6-N1	6.42	1.44	1.39
1	N	775	G	O3'-P	6.42	1.68	1.61
1	N	749	A	C5-C6	-6.42	1.35	1.41
1	N	927	G	P-O5'	-6.42	1.53	1.59
1	N	1018	G	C2'-C1'	-6.42	1.46	1.53
1	N	1529	G	N7-C5	-6.42	1.35	1.39
1	N	1184	G	N1-C2	6.42	1.42	1.37
1	N	1275	A	N9-C8	-6.42	1.32	1.37
1	N	704	A	P-O5'	6.42	1.66	1.59
1	N	191	G	O4'-C1'	6.41	1.50	1.41
1	N	501	C	N3-C4	6.41	1.38	1.33
1	N	1128	C	C4'-O4'	6.41	1.53	1.45
1	N	1328	C	C2'-C1'	-6.41	1.46	1.53
1	N	747	A	O3'-P	-6.41	1.53	1.61
1	N	1219	A	C6-N1	6.41	1.40	1.35
1	N	34	C	C1'-N1	6.41	1.58	1.48
1	N	571	U	C2'-C1'	-6.41	1.46	1.53
1	N	625	U	C4-C5	6.41	1.49	1.43
1	N	1049	U	N3-C4	6.41	1.44	1.38
1	N	683	G	N9-C8	6.41	1.42	1.37
1	N	1499	A	N3-C4	-6.41	1.31	1.34
1	N	1303	C	O5'-C5'	-6.40	1.32	1.42
1	N	1341	U	O3'-P	-6.40	1.53	1.61
1	N	1465	A	C3'-C2'	-6.40	1.45	1.52
1	N	1471	U	C2-N3	6.40	1.42	1.37
1	N	470	C	N3-C4	6.40	1.38	1.33
1	N	1376	U	C5-C6	6.40	1.40	1.34
1	N	407	U	P-O5'	-6.40	1.53	1.59
1	N	706	A	C6-N1	6.40	1.40	1.35
1	N	1494	G	C8-N7	-6.40	1.27	1.30
1	N	346	G	C6-N1	6.39	1.44	1.39
1	N	294	U	C4'-C3'	-6.39	1.46	1.53
1	N	366	A	P-O5'	-6.39	1.53	1.59
1	N	591	U	C5'-C4'	6.39	1.59	1.51
1	N	795	C	C4-N4	6.39	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1188	A	C5'-C4'	6.39	1.59	1.51
1	N	1333	A	N3-C4	6.39	1.38	1.34
1	N	655	A	C5'-C4'	6.39	1.59	1.51
1	N	898	G	C5'-C4'	6.38	1.59	1.51
1	N	51	A	C3'-C2'	6.38	1.59	1.52
1	N	143	A	C5-C4	6.38	1.43	1.38
1	N	617	G	C5-C4	-6.38	1.33	1.38
1	N	4	U	C4'-C3'	6.38	1.60	1.53
1	N	484	G	C5-C4	-6.38	1.33	1.38
1	N	1171	A	C6-N6	6.38	1.39	1.33
1	N	1185	G	C8-N7	-6.38	1.27	1.30
1	N	941	G	C6-N1	6.38	1.44	1.39
1	N	969	A	C6-N6	6.38	1.39	1.33
1	N	1057	G	C6-N1	6.38	1.44	1.39
1	N	1201	A	C2-N3	6.38	1.39	1.33
1	N	25	C	N1-C6	6.38	1.41	1.37
1	N	566	G	C5-C4	6.38	1.42	1.38
1	N	752	G	N1-C2	6.38	1.42	1.37
1	N	787	A	C5'-C4'	6.38	1.59	1.51
1	N	1191	A	N9-C4	6.38	1.41	1.37
1	N	436	C	C4-C5	6.37	1.48	1.43
1	N	547	A	O3'-P	-6.37	1.53	1.61
1	N	755	G	C5'-C4'	6.37	1.58	1.51
1	N	1204	A	N1-C2	6.37	1.40	1.34
1	N	244	U	C1'-N1	6.37	1.58	1.48
1	N	807	A	C6-N6	6.37	1.39	1.33
1	N	269	C	N3-C4	-6.37	1.29	1.33
1	N	830	G	P-O5'	-6.37	1.53	1.59
1	N	51	A	C2'-C1'	-6.37	1.46	1.53
1	N	248	C	C2-N3	-6.37	1.30	1.35
1	N	1193	G	N1-C2	6.37	1.42	1.37
1	N	1263	C	C4-N4	6.37	1.39	1.33
1	N	436	C	C2'-C1'	6.37	1.60	1.53
1	N	1126	U	C2'-C1'	-6.37	1.46	1.53
1	N	491	G	C5'-C4'	6.36	1.58	1.51
1	N	1122	U	C5-C6	6.36	1.39	1.34
1	N	532	A	C8-N7	6.36	1.36	1.31
1	N	1197	A	C5'-C4'	6.36	1.58	1.51
1	N	1292	G	C8-N7	6.36	1.34	1.30
1	N	810	C	C2'-C1'	-6.36	1.46	1.53
1	N	335	C	O3'-P	-6.36	1.53	1.61
1	N	200	G	C5-C4	6.36	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	234	C	C3'-O3'	6.36	1.51	1.42
1	N	1169	A	C5'-C4'	6.36	1.58	1.51
1	N	791	G	C8-N7	6.35	1.34	1.30
1	N	197	A	N3-C4	-6.35	1.31	1.34
1	N	236	A	C5-C4	-6.35	1.34	1.38
1	N	268	U	N3-C4	6.35	1.44	1.38
1	N	658	C	C4-N4	6.35	1.39	1.33
1	N	236	A	N3-C4	-6.35	1.31	1.34
1	N	937	A	C8-N7	-6.35	1.27	1.31
1	N	931	C	P-O5'	6.35	1.66	1.59
1	N	1111	A	P-O5'	6.35	1.66	1.59
1	N	654	G	N7-C5	-6.35	1.35	1.39
1	N	913	A	C6-N1	6.35	1.40	1.35
1	N	916	U	C1'-N1	6.35	1.58	1.48
1	N	1453	G	N3-C4	-6.35	1.31	1.35
1	N	76	G	C5-C6	-6.35	1.36	1.42
1	N	224	U	C5'-C4'	6.35	1.58	1.51
1	N	365	U	C2-N3	6.35	1.42	1.37
1	N	451	A	N9-C4	6.34	1.41	1.37
1	N	621	A	C6-N1	-6.34	1.31	1.35
1	N	718	A	C6-N6	6.34	1.39	1.33
1	N	1270	G	N1-C2	6.34	1.42	1.37
1	N	293	G	C2-N3	6.34	1.37	1.32
1	N	355	C	C2'-C1'	6.34	1.60	1.53
1	N	559	A	O4'-C1'	6.34	1.49	1.41
1	N	1417	G	C2-N3	6.34	1.37	1.32
1	N	967	C	C4-N4	6.34	1.39	1.33
1	N	1509	C	C3'-C2'	-6.34	1.45	1.52
1	N	464	U	C3'-C2'	-6.34	1.45	1.52
1	N	569	C	C2-N3	6.34	1.40	1.35
1	N	662	U	C5'-C4'	6.34	1.58	1.51
1	N	708	C	C3'-C2'	6.34	1.59	1.52
1	N	919	A	O3'-P	-6.34	1.53	1.61
1	N	1329	A	C4'-C3'	-6.34	1.46	1.53
1	N	334	C	O3'-P	-6.33	1.53	1.61
1	N	1038	C	C5'-C4'	6.33	1.58	1.51
1	N	1050	G	C5-C6	6.33	1.48	1.42
1	N	1296	C	N3-C4	6.33	1.38	1.33
1	N	669	G	N3-C4	6.33	1.39	1.35
1	N	773	G	C5-C4	-6.33	1.33	1.38
1	N	89	U	C5'-C4'	6.33	1.58	1.51
1	N	82	G	N9-C8	-6.33	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	353	A	C5'-C4'	6.33	1.58	1.51
1	N	201	G	C6-N1	-6.33	1.35	1.39
1	N	318	G	N9-C8	-6.33	1.33	1.37
1	N	726	C	N1-C6	6.33	1.41	1.37
1	N	166	U	C4-O4	-6.32	1.18	1.23
1	N	357	G	N1-C2	6.32	1.42	1.37
1	N	739	C	C1'-N1	6.32	1.58	1.48
1	N	1191	A	C5-C4	6.32	1.43	1.38
1	N	989	U	N3-C4	6.32	1.44	1.38
1	N	1370	G	N3-C4	-6.32	1.31	1.35
1	N	715	A	C8-N7	6.32	1.35	1.31
1	N	986	U	C1'-N1	6.32	1.58	1.48
1	N	464	U	C2-N3	6.32	1.42	1.37
1	N	504	C	C5'-C4'	6.32	1.58	1.51
1	N	865	A	N9-C8	6.32	1.42	1.37
1	N	953	G	C8-N7	6.32	1.34	1.30
1	N	1031	C	C4'-O4'	6.32	1.53	1.45
1	N	1340	A	C6-N1	6.32	1.40	1.35
1	N	344	A	N3-C4	-6.31	1.31	1.34
1	N	830	G	C1'-N9	6.31	1.58	1.48
1	N	968	A	C5-C4	6.31	1.43	1.38
1	N	729	A	N7-C5	-6.31	1.35	1.39
1	N	335	C	C5'-C4'	6.31	1.58	1.51
1	N	497	G	C5'-C4'	6.31	1.58	1.51
1	N	944	G	C5-C4	-6.31	1.33	1.38
1	N	994	A	N9-C4	-6.31	1.34	1.37
1	N	1360	A	C6-N6	6.31	1.39	1.33
1	N	15	G	N9-C8	6.31	1.42	1.37
1	N	262	A	N3-C4	-6.31	1.31	1.34
1	N	293	G	N9-C8	6.31	1.42	1.37
1	N	564	C	P-O5'	-6.30	1.53	1.59
1	N	1187	G	C2-N3	6.30	1.37	1.32
1	N	703	G	C2'-C1'	-6.30	1.46	1.53
1	N	51	A	C5-C4	6.30	1.43	1.38
1	N	501	C	C4-N4	6.30	1.39	1.33
1	N	789	U	N1-C2	-6.30	1.32	1.38
1	N	1409	C	C5'-C4'	6.30	1.58	1.51
1	N	739	C	C5'-C4'	6.30	1.58	1.51
1	N	1400	C	C5'-C4'	6.30	1.58	1.51
1	N	56	U	C4'-O4'	6.30	1.53	1.45
1	N	328	C	N3-C4	6.30	1.38	1.33
1	N	373	A	C2'-C1'	-6.30	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	651	C	C2-N3	6.30	1.40	1.35
1	N	712	A	C5-C4	6.30	1.43	1.38
1	N	1311	A	N9-C8	6.30	1.42	1.37
1	N	168	G	C8-N7	-6.29	1.27	1.30
1	N	301	G	C8-N7	-6.29	1.27	1.30
1	N	1493	A	P-O5'	-6.29	1.53	1.59
1	N	130	A	C6-N1	6.29	1.40	1.35
1	N	728	A	C1'-N9	6.29	1.58	1.48
1	N	985	C	O3'-P	-6.29	1.53	1.61
1	N	1019	A	N7-C5	-6.29	1.35	1.39
1	N	1463	U	C2'-C1'	-6.29	1.46	1.53
1	N	768	A	O3'-P	-6.29	1.53	1.61
1	N	856	C	C5'-C4'	6.29	1.58	1.51
1	N	982	U	C2-N3	6.29	1.42	1.37
1	N	1242	G	P-O5'	-6.29	1.53	1.59
1	N	1378	C	O3'-P	-6.29	1.53	1.61
1	N	731	G	C2-N2	6.29	1.40	1.34
1	N	906	A	C8-N7	6.29	1.35	1.31
1	N	1233	G	C2-N2	6.29	1.40	1.34
1	N	485	U	N3-C4	6.28	1.44	1.38
1	N	1520	C	C5-C6	6.28	1.39	1.34
1	N	1200	C	C5'-C4'	6.28	1.58	1.51
1	N	748	G	O4'-C1'	6.28	1.49	1.41
1	N	1310	G	C6-N1	6.28	1.44	1.39
1	N	916	U	C4'-C3'	6.28	1.60	1.53
1	N	261	U	N3-C4	-6.28	1.32	1.38
1	N	160	A	N7-C5	6.28	1.43	1.39
1	N	606	G	C5-C4	6.28	1.42	1.38
1	N	715	A	N7-C5	-6.28	1.35	1.39
1	N	1044	A	C5-C4	-6.28	1.34	1.38
1	N	566	G	C2-N3	6.27	1.37	1.32
1	N	648	A	C4'-C3'	-6.27	1.46	1.53
1	N	1285	A	O4'-C1'	6.27	1.49	1.41
1	N	606	G	C8-N7	6.27	1.34	1.30
1	N	809	G	C8-N7	6.27	1.34	1.30
1	N	485	U	C4-C5	6.27	1.49	1.43
1	N	1396	A	O3'-P	-6.27	1.53	1.61
1	N	1424	U	N3-C4	6.27	1.44	1.38
1	N	1531	A	N3-C4	-6.27	1.31	1.34
1	N	977	A	N7-C5	-6.26	1.35	1.39
1	N	1048	G	C2'-C1'	-6.26	1.46	1.53
1	N	802	A	N9-C4	6.26	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1073	U	N3-C4	6.26	1.44	1.38
1	N	369	G	N1-C2	6.26	1.42	1.37
1	N	458	U	C2-N3	6.26	1.42	1.37
1	N	1255	G	N3-C4	-6.26	1.31	1.35
1	N	302	G	N3-C4	6.26	1.39	1.35
1	N	512	U	N1-C6	6.26	1.43	1.38
1	N	550	G	N7-C5	6.26	1.43	1.39
1	N	602	A	O4'-C1'	6.26	1.49	1.41
1	N	617	G	C8-N7	-6.26	1.27	1.30
1	N	1294	G	C5-C6	-6.26	1.36	1.42
1	N	763	G	C2-N3	6.26	1.37	1.32
1	N	1072	G	C6-N1	6.26	1.44	1.39
1	N	670	G	C6-N1	6.26	1.44	1.39
1	N	1460	C	C4-N4	6.26	1.39	1.33
1	N	1476	A	C2'-C1'	-6.26	1.46	1.53
1	N	366	A	N3-C4	-6.25	1.31	1.34
1	N	773	G	C4'-C3'	6.25	1.60	1.53
1	N	844	G	C8-N7	-6.25	1.27	1.30
1	N	993	G	N1-C2	6.25	1.42	1.37
1	N	580	C	C2-N3	6.25	1.40	1.35
1	N	1160	G	C5-C6	-6.25	1.36	1.42
1	N	1220	G	N7-C5	6.25	1.43	1.39
1	N	58	C	C2-O2	6.25	1.30	1.24
1	N	164	G	N7-C5	-6.25	1.35	1.39
1	N	301	G	C5-C6	-6.25	1.36	1.42
1	N	967	C	N3-C4	6.25	1.38	1.33
1	N	985	C	C5'-C4'	6.25	1.58	1.51
1	N	1304	G	C8-N7	-6.25	1.27	1.30
1	N	1382	C	C1'-N1	6.25	1.58	1.48
1	N	1435	G	N3-C4	6.25	1.39	1.35
1	N	714	G	C8-N7	6.25	1.34	1.30
1	N	845	A	N9-C8	6.24	1.42	1.37
1	N	18	C	C4-N4	6.24	1.39	1.33
1	N	177	G	C2-N2	6.24	1.40	1.34
1	N	922	G	C2'-C1'	-6.24	1.46	1.53
1	N	664	G	N9-C8	-6.24	1.33	1.37
1	N	685	G	C2-N2	6.24	1.40	1.34
1	N	275	G	P-O5'	-6.24	1.53	1.59
1	N	1303	C	N3-C4	6.24	1.38	1.33
1	N	168	G	P-O5'	-6.23	1.53	1.59
1	N	493	A	C2'-C1'	-6.23	1.46	1.53
1	N	798	U	C3'-O3'	6.23	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1132	C	N3-C4	6.23	1.38	1.33
1	N	109	A	N1-C2	-6.23	1.28	1.34
1	N	1184	G	P-O5'	-6.23	1.53	1.59
1	N	1294	G	C6-N1	6.23	1.44	1.39
1	N	433	G	C4'-C3'	6.23	1.59	1.53
1	N	588	G	N1-C2	6.23	1.42	1.37
1	N	1399	C	C2'-C1'	-6.23	1.46	1.53
1	N	1398	A	N3-C4	6.23	1.38	1.34
1	N	1170	A	N9-C4	-6.22	1.34	1.37
1	N	1220	G	C6-N1	6.22	1.44	1.39
1	N	1380	U	C2'-C1'	-6.22	1.46	1.53
1	N	259	G	O3'-P	-6.22	1.53	1.61
1	N	705	G	C2'-C1'	-6.22	1.46	1.53
1	N	947	G	C8-N7	6.22	1.34	1.30
1	N	966	G	N7-C5	-6.22	1.35	1.39
1	N	1248	A	P-O5'	-6.22	1.53	1.59
1	N	64	G	C1'-N9	6.22	1.58	1.48
1	N	161	A	C5-C4	6.22	1.43	1.38
1	N	348	G	P-O5'	-6.22	1.53	1.59
1	N	483	C	C3'-C2'	-6.22	1.46	1.52
1	N	544	G	C2-N2	-6.22	1.28	1.34
1	N	933	G	C2-N3	6.22	1.37	1.32
1	N	1270	G	C2-N2	6.22	1.40	1.34
1	N	1391	U	C4'-C3'	6.22	1.59	1.53
1	N	21	G	C2-N2	6.22	1.40	1.34
1	N	12	U	N3-C4	6.22	1.44	1.38
1	N	857	C	C2-O2	6.22	1.30	1.24
1	N	1094	G	C4'-O4'	-6.22	1.37	1.45
1	N	1099	G	P-O5'	-6.22	1.53	1.59
1	N	1117	A	N7-C5	-6.22	1.35	1.39
1	N	1257	A	N7-C5	-6.22	1.35	1.39
1	N	1474	U	C4-O4	6.22	1.28	1.23
1	N	411	A	N3-C4	-6.21	1.31	1.34
1	N	465	A	C5-C6	-6.21	1.35	1.41
1	N	748	G	C6-N1	6.21	1.43	1.39
1	N	946	A	P-O5'	-6.21	1.53	1.59
1	N	149	A	O4'-C1'	-6.21	1.33	1.41
1	N	724	G	N1-C2	6.21	1.42	1.37
1	N	829	G	C5'-C4'	6.21	1.58	1.51
1	N	833	G	C6-O6	-6.21	1.18	1.24
1	N	168	G	C5-C6	-6.21	1.36	1.42
1	N	462	G	C2'-C1'	-6.21	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	935	A	O3'-P	-6.21	1.53	1.61
1	N	1485	U	N1-C2	-6.21	1.32	1.38
1	N	297	G	N7-C5	-6.21	1.35	1.39
1	N	773	G	C5-C6	-6.21	1.36	1.42
1	N	131	A	N7-C5	-6.21	1.35	1.39
1	N	1438	G	N9-C8	-6.21	1.33	1.37
1	N	272	C	C3'-C2'	6.20	1.59	1.52
1	N	970	C	C1'-N1	6.20	1.58	1.48
1	N	1258	G	C2'-C1'	6.20	1.60	1.53
1	N	716	A	C3'-C2'	-6.20	1.46	1.52
1	N	786	G	C5-C4	6.20	1.42	1.38
1	N	1058	G	C2-N2	6.20	1.40	1.34
1	N	1138	G	N3-C4	-6.20	1.31	1.35
1	N	1299	A	C4'-O4'	-6.20	1.37	1.45
1	N	837	U	C3'-O3'	6.20	1.50	1.42
1	N	973	G	N3-C4	6.20	1.39	1.35
1	N	34	C	C4-N4	6.20	1.39	1.33
1	N	59	A	N1-C2	6.20	1.40	1.34
1	N	1070	U	C3'-C2'	6.20	1.59	1.52
1	N	1243	C	C4-N4	6.20	1.39	1.33
1	N	1244	G	C2'-C1'	-6.20	1.46	1.53
1	N	1507	A	C6-N6	6.20	1.39	1.33
1	N	74	A	N7-C5	-6.19	1.35	1.39
1	N	279	A	C6-N6	6.19	1.39	1.33
1	N	288	A	C2-N3	-6.19	1.27	1.33
1	N	700	G	C6-N1	-6.19	1.35	1.39
1	N	916	U	C2-N3	6.19	1.42	1.37
1	N	241	G	C5'-C4'	6.19	1.58	1.51
1	N	453	G	C8-N7	-6.19	1.27	1.30
1	N	807	A	C8-N7	-6.19	1.27	1.31
1	N	1093	A	C6-N6	6.19	1.39	1.33
1	N	1407	C	C4-C5	-6.19	1.38	1.43
1	N	290	C	N1-C6	6.19	1.40	1.37
1	N	560	A	P-O5'	6.19	1.66	1.59
1	N	1166	G	C4'-C3'	6.19	1.59	1.53
1	N	1309	G	C6-N1	6.19	1.43	1.39
1	N	546	A	N1-C2	-6.18	1.28	1.34
1	N	796	C	N3-C4	6.18	1.38	1.33
1	N	66	A	C3'-C2'	-6.18	1.46	1.52
1	N	330	C	N1-C6	6.18	1.40	1.37
1	N	1020	G	C5'-C4'	6.18	1.58	1.51
1	N	1167	A	N3-C4	-6.18	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1508	A	N7-C5	-6.18	1.35	1.39
1	N	246	A	O3'-P	6.18	1.68	1.61
1	N	454	G	N9-C8	6.18	1.42	1.37
1	N	491	G	C2-N2	6.18	1.40	1.34
1	N	1144	G	C2-N2	6.18	1.40	1.34
1	N	103	U	C5-C6	-6.18	1.28	1.34
1	N	252	U	C5-C6	6.18	1.39	1.34
1	N	1038	C	O3'-P	-6.18	1.53	1.61
1	N	1182	G	C5'-C4'	6.18	1.58	1.51
1	N	1388	C	C5'-C4'	6.18	1.58	1.51
1	N	518	C	O3'-P	-6.18	1.53	1.61
1	N	691	G	N1-C2	-6.18	1.32	1.37
1	N	944	G	N9-C8	-6.18	1.33	1.37
1	N	1236	A	P-O5'	-6.18	1.53	1.59
1	N	1461	G	C5-C4	-6.18	1.34	1.38
1	N	151	A	N3-C4	-6.17	1.31	1.34
1	N	1053	G	N7-C5	-6.17	1.35	1.39
1	N	1297	G	C5-C4	-6.17	1.34	1.38
1	N	1396	A	C5-C6	6.17	1.46	1.41
1	N	212	G	C2-N3	-6.17	1.27	1.32
1	N	594	U	O3'-P	-6.17	1.53	1.61
1	N	622	A	C2-N3	6.17	1.39	1.33
1	N	794	A	N3-C4	-6.17	1.31	1.34
1	N	1247	U	C2'-C1'	-6.17	1.46	1.53
1	N	709	U	C4'-C3'	6.17	1.59	1.53
1	N	1270	G	C5-C4	6.17	1.42	1.38
1	N	138	G	C4'-C3'	-6.16	1.46	1.53
1	N	366	A	C6-N6	6.16	1.38	1.33
1	N	417	G	C8-N7	6.16	1.34	1.30
1	N	431	A	C5'-C4'	6.16	1.58	1.51
1	N	1212	U	C4-C5	6.16	1.49	1.43
1	N	1224	U	C4-O4	-6.16	1.18	1.23
1	N	739	C	O5'-C5'	-6.16	1.32	1.42
1	N	1323	G	C4'-C3'	-6.16	1.46	1.53
1	N	156	C	C4-N4	6.16	1.39	1.33
1	N	327	A	C6-N6	6.16	1.38	1.33
1	N	586	C	C4-N4	6.16	1.39	1.33
1	N	794	A	C2-N3	6.16	1.39	1.33
1	N	1019	A	P-O5'	-6.16	1.53	1.59
1	N	1514	G	C6-N1	6.15	1.43	1.39
1	N	755	G	C6-N1	6.15	1.43	1.39
1	N	1077	G	C6-O6	-6.15	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	657	U	N1-C2	-6.15	1.33	1.38
1	N	1010	U	C2-N3	6.15	1.42	1.37
1	N	411	A	N9-C4	-6.15	1.34	1.37
1	N	1194	U	C5'-C4'	6.15	1.58	1.51
1	N	1408	A	N7-C5	-6.15	1.35	1.39
1	N	1433	A	O4'-C1'	6.15	1.49	1.41
1	N	697	U	C5'-C4'	6.15	1.58	1.51
1	N	381	C	N3-C4	6.15	1.38	1.33
1	N	654	G	C8-N7	-6.15	1.27	1.30
1	N	240	G	C2-N3	6.14	1.37	1.32
1	N	344	A	O3'-P	-6.14	1.53	1.61
1	N	441	A	N7-C5	-6.14	1.35	1.39
1	N	1329	A	N9-C8	6.14	1.42	1.37
1	N	928	G	C4'-C3'	6.14	1.59	1.53
1	N	974	A	C4'-C3'	6.14	1.59	1.53
1	N	521	G	C8-N7	6.14	1.34	1.30
1	N	793	U	C5'-C4'	6.14	1.58	1.51
1	N	968	A	C4'-O4'	6.14	1.53	1.45
1	N	1198	G	C2-N3	6.14	1.37	1.32
1	N	1236	A	C5-C6	-6.14	1.35	1.41
1	N	1413	A	C5-C4	-6.14	1.34	1.38
1	N	363	A	C5'-C4'	6.14	1.58	1.51
1	N	611	C	P-O5'	-6.14	1.53	1.59
1	N	824	G	C3'-C2'	-6.14	1.46	1.52
1	N	949	A	C6-N6	6.14	1.38	1.33
1	N	1054	C	C5-C6	-6.14	1.29	1.34
1	N	1316	G	P-O5'	-6.14	1.53	1.59
1	N	161	A	C8-N7	-6.14	1.27	1.31
1	N	478	A	C6-N6	6.14	1.38	1.33
1	N	1197	A	C6-N6	6.14	1.38	1.33
1	N	1142	G	C2-N3	6.13	1.37	1.32
1	N	1172	C	C4-N4	6.13	1.39	1.33
1	N	625	U	C1'-N1	6.13	1.57	1.48
1	N	919	A	C2'-C1'	-6.13	1.46	1.53
1	N	34	C	P-O5'	-6.13	1.53	1.59
1	N	217	C	N1-C2	-6.13	1.34	1.40
1	N	254	G	C2'-C1'	-6.13	1.46	1.53
1	N	521	G	N7-C5	-6.13	1.35	1.39
1	N	523	A	C5-C4	6.13	1.43	1.38
1	N	94	G	C5-C4	-6.13	1.34	1.38
1	N	774	G	N9-C8	6.13	1.42	1.37
1	N	1502	A	C6-N6	6.13	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	651	C	C2-O2	-6.12	1.19	1.24
1	N	837	U	N3-C4	6.12	1.44	1.38
1	N	343	U	N3-C4	6.12	1.44	1.38
1	N	998	C	C5'-C4'	6.12	1.58	1.51
1	N	1154	G	N9-C4	-6.12	1.33	1.38
1	N	1338	G	C5-C4	6.12	1.42	1.38
1	N	235	C	P-O5'	-6.12	1.53	1.59
1	N	324	G	C4'-O4'	6.12	1.53	1.45
1	N	1070	U	P-O5'	6.12	1.65	1.59
1	N	1212	U	C2'-C1'	-6.12	1.46	1.53
1	N	1371	G	C2'-O2'	-6.12	1.33	1.41
1	N	1228	C	C2-N3	6.12	1.40	1.35
1	N	97	G	N7-C5	-6.12	1.35	1.39
1	N	1134	G	O3'-P	-6.12	1.53	1.61
1	N	452	A	C3'-O3'	6.11	1.50	1.42
1	N	1057	G	N9-C4	6.11	1.42	1.38
1	N	1095	U	C2'-C1'	-6.11	1.46	1.53
1	N	841	C	C4-C5	6.11	1.47	1.43
1	N	322	C	C4-N4	6.11	1.39	1.33
1	N	1358	U	P-O5'	-6.11	1.53	1.59
1	N	306	A	C4'-C3'	6.11	1.59	1.53
1	N	1344	C	C4'-O4'	-6.11	1.37	1.45
1	N	717	U	N3-C4	6.11	1.44	1.38
1	N	165	G	C3'-C2'	6.10	1.59	1.52
1	N	729	A	C6-N6	6.10	1.38	1.33
1	N	1065	U	P-O5'	-6.10	1.53	1.59
1	N	1525	G	C8-N7	6.10	1.34	1.30
1	N	1197	A	C3'-O3'	6.10	1.50	1.42
1	N	7	A	C5-C4	6.10	1.43	1.38
1	N	56	U	C2'-C1'	-6.10	1.46	1.53
1	N	179	A	C2'-C1'	-6.10	1.46	1.53
1	N	342	C	N1-C6	6.10	1.40	1.37
1	N	410	G	C8-N7	-6.10	1.27	1.30
1	N	1032	G	O3'-P	-6.10	1.53	1.61
1	N	1157	A	C6-N1	6.10	1.39	1.35
1	N	226	G	N7-C5	-6.10	1.35	1.39
1	N	326	G	C4'-O4'	-6.10	1.37	1.45
1	N	1237	C	C4-C5	6.10	1.47	1.43
1	N	398	U	C4'-C3'	-6.09	1.46	1.53
1	N	1047	G	N3-C4	-6.09	1.31	1.35
1	N	1239	A	N9-C8	-6.09	1.32	1.37
1	N	1003	G	P-O5'	6.09	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1207	G	N3-C4	-6.09	1.31	1.35
1	N	1278	G	N1-C2	6.09	1.42	1.37
1	N	14	U	N1-C6	6.09	1.43	1.38
1	N	127	G	C6-N1	6.09	1.43	1.39
1	N	871	U	N3-C4	6.09	1.44	1.38
1	N	1342	C	C2-O2	6.09	1.29	1.24
1	N	1389	C	C4-N4	6.09	1.39	1.33
1	N	874	G	C8-N7	6.08	1.34	1.30
1	N	1418	A	C5-C4	6.08	1.43	1.38
1	N	101	A	C5'-C4'	6.08	1.58	1.51
1	N	253	A	C5-C4	-6.08	1.34	1.38
1	N	1012	A	C6-N6	6.08	1.38	1.33
1	N	1502	A	N1-C2	6.08	1.39	1.34
1	N	1142	G	C5-C4	6.08	1.42	1.38
1	N	1410	A	C4'-C3'	6.08	1.59	1.53
1	N	424	G	C4'-C3'	-6.08	1.46	1.53
1	N	1181	G	N1-C2	6.08	1.42	1.37
1	N	1295	U	O4'-C1'	-6.08	1.33	1.41
1	N	219	U	N1-C2	-6.08	1.33	1.38
1	N	275	G	C5-C4	6.08	1.42	1.38
1	N	354	G	C4'-C3'	-6.08	1.46	1.53
1	N	962	C	O3'-P	6.08	1.68	1.61
1	N	1020	G	C5-C6	-6.08	1.36	1.42
1	N	1190	G	C2'-C1'	-6.08	1.46	1.53
1	N	1476	A	C3'-O3'	6.08	1.50	1.42
1	N	64	G	N7-C5	-6.08	1.35	1.39
1	N	291	U	N1-C2	6.08	1.44	1.38
1	N	768	A	N3-C4	6.08	1.38	1.34
1	N	913	A	N7-C5	-6.08	1.35	1.39
1	N	946	A	C5-C4	-6.08	1.34	1.38
1	N	119	A	C2'-C1'	-6.07	1.46	1.53
1	N	337	G	C8-N7	6.07	1.34	1.30
1	N	556	C	C2-N3	6.07	1.40	1.35
1	N	641	U	C2-N3	6.07	1.42	1.37
1	N	656	G	C2-N3	6.07	1.37	1.32
1	N	1132	C	C1'-N1	6.07	1.57	1.48
1	N	713	G	C5'-C4'	6.07	1.58	1.51
1	N	616	G	C3'-O3'	6.07	1.50	1.42
1	N	267	C	C2'-C1'	-6.07	1.46	1.53
1	N	68	G	C2-N3	6.07	1.37	1.32
1	N	83	C	C2'-C1'	-6.07	1.46	1.53
1	N	295	C	C4'-C3'	-6.07	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1449	C	C3'-C2'	6.07	1.59	1.52
1	N	245	U	C1'-N1	6.07	1.57	1.48
1	N	1174	G	C4'-C3'	6.07	1.59	1.53
1	N	1489	G	C8-N7	-6.07	1.27	1.30
1	N	531	U	C2-N3	6.06	1.42	1.37
1	N	667	G	C4'-C3'	6.06	1.59	1.53
1	N	344	A	C6-N1	6.06	1.39	1.35
1	N	847	G	C2-N3	6.06	1.37	1.32
1	N	868	C	C2-N3	6.06	1.40	1.35
1	N	1188	A	C6-N1	6.06	1.39	1.35
1	N	1267	C	C1'-N1	6.06	1.57	1.48
1	N	1357	A	C3'-C2'	6.06	1.59	1.52
1	N	1506	U	C4'-O4'	6.06	1.53	1.45
1	N	777	A	N9-C8	6.06	1.42	1.37
1	N	1219	A	P-O5'	-6.06	1.53	1.59
1	N	271	C	O4'-C1'	6.06	1.49	1.41
1	N	808	C	C1'-N1	6.06	1.57	1.48
1	N	1031	C	N3-C4	6.06	1.38	1.33
1	N	337	G	N1-C2	6.06	1.42	1.37
1	N	384	G	C2'-C1'	-6.06	1.46	1.53
1	N	1127	G	C2-N3	6.06	1.37	1.32
1	N	463	U	P-O5'	-6.05	1.53	1.59
1	N	736	C	C4-C5	6.05	1.47	1.43
1	N	867	G	N9-C8	6.05	1.42	1.37
1	N	891	U	N3-C4	6.05	1.43	1.38
1	N	94	G	O3'-P	-6.05	1.53	1.61
1	N	562	U	N3-C4	6.05	1.43	1.38
1	N	660	C	C4-N4	6.05	1.39	1.33
1	N	836	G	O4'-C1'	-6.05	1.33	1.41
1	N	162	A	C5-C4	-6.05	1.34	1.38
1	N	195	A	N9-C8	-6.05	1.32	1.37
1	N	1496	C	N3-C4	6.05	1.38	1.33
1	N	78	A	C2-N3	6.05	1.39	1.33
1	N	902	G	C4'-O4'	6.05	1.53	1.45
1	N	942	G	O3'-P	-6.05	1.53	1.61
1	N	1254	A	C3'-C2'	-6.05	1.46	1.52
1	N	27	G	C5-C6	-6.05	1.36	1.42
1	N	876	C	N1-C6	6.05	1.40	1.37
1	N	991	U	O3'-P	-6.05	1.53	1.61
1	N	1147	C	C1'-N1	6.05	1.57	1.48
1	N	1500	A	O4'-C1'	6.05	1.49	1.41
1	N	783	C	N3-C4	6.05	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	18	C	C2'-C1'	-6.04	1.46	1.53
1	N	319	G	P-O5'	6.04	1.65	1.59
1	N	218	U	N1-C6	6.04	1.43	1.38
1	N	995	C	C3'-O3'	6.04	1.50	1.42
1	N	1229	A	N1-C2	6.04	1.39	1.34
1	N	1375	A	P-O5'	-6.04	1.53	1.59
1	N	819	A	C5-C4	6.04	1.43	1.38
1	N	1318	A	C2-N3	6.04	1.39	1.33
1	N	294	U	C2-O2	6.04	1.27	1.22
1	N	970	C	N1-C6	-6.04	1.33	1.37
1	N	144	G	C5-C6	-6.04	1.36	1.42
1	N	593	U	P-O5'	-6.04	1.53	1.59
1	N	1242	G	N7-C5	-6.04	1.35	1.39
1	N	154	U	C1'-N1	6.03	1.57	1.48
1	N	985	C	C5-C6	-6.03	1.29	1.34
1	N	541	G	P-O5'	6.03	1.65	1.59
1	N	150	U	C2'-C1'	-6.03	1.46	1.53
1	N	430	A	C2'-C1'	-6.03	1.46	1.53
1	N	615	G	C5-C4	6.03	1.42	1.38
1	N	654	G	C3'-O3'	6.03	1.50	1.42
1	N	885	G	C5-C4	6.03	1.42	1.38
1	N	134	G	C5-C4	6.03	1.42	1.38
1	N	314	C	C5'-C4'	6.03	1.58	1.51
1	N	1410	A	N7-C5	-6.03	1.35	1.39
1	N	41	G	C2-N2	6.02	1.40	1.34
1	N	772	U	C5-C6	6.02	1.39	1.34
1	N	515	G	N3-C4	6.02	1.39	1.35
1	N	769	G	C2-N2	6.02	1.40	1.34
1	N	807	A	P-O5'	-6.02	1.53	1.59
1	N	838	G	C5'-C4'	6.02	1.58	1.51
1	N	1171	A	O3'-P	-6.02	1.53	1.61
1	N	13	U	N3-C4	6.02	1.43	1.38
1	N	874	G	C2'-C1'	-6.02	1.46	1.53
1	N	1147	C	C5'-C4'	6.02	1.58	1.51
1	N	443	C	C5'-C4'	6.02	1.58	1.51
1	N	789	U	C2-N3	6.02	1.42	1.37
1	N	1168	U	O4'-C1'	6.02	1.49	1.41
1	N	1376	U	C2-N3	6.02	1.42	1.37
1	N	735	C	O3'-P	-6.02	1.53	1.61
1	N	78	A	C4'-C3'	6.01	1.59	1.53
1	N	333	U	C4'-O4'	6.01	1.53	1.45
1	N	1024	G	C2-N2	6.01	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	9	G	N3-C4	-6.01	1.31	1.35
1	N	1305	G	C2-N3	6.01	1.37	1.32
1	N	64	G	O3'-P	6.01	1.68	1.61
1	N	384	G	C6-N1	-6.01	1.35	1.39
1	N	493	A	N3-C4	-6.01	1.31	1.34
1	N	748	G	N7-C5	-6.01	1.35	1.39
1	N	880	C	C2-N3	6.01	1.40	1.35
1	N	1416	G	N1-C2	6.01	1.42	1.37
1	N	1489	G	C4'-C3'	6.01	1.59	1.53
1	N	421	U	O3'-P	-6.01	1.53	1.61
1	N	451	A	C3'-C2'	6.01	1.59	1.52
1	N	727	G	C6-O6	-6.01	1.18	1.24
1	N	830	G	C4'-O4'	-6.01	1.37	1.45
1	N	1013	G	N7-C5	-6.01	1.35	1.39
1	N	1166	G	O5'-C5'	-6.01	1.33	1.42
1	N	466	A	C2'-C1'	-6.01	1.46	1.53
1	N	751	U	C2'-C1'	6.01	1.59	1.53
1	N	873	A	N3-C4	6.01	1.38	1.34
1	N	1360	A	N1-C2	6.01	1.39	1.34
1	N	667	G	C5'-C4'	-6.00	1.44	1.51
1	N	1098	C	N3-C4	6.00	1.38	1.33
1	N	1260	G	P-O5'	-6.00	1.53	1.59
1	N	286	C	C5-C6	-6.00	1.29	1.34
1	N	794	A	C6-N1	6.00	1.39	1.35
1	N	1146	A	C8-N7	-6.00	1.27	1.31
1	N	1467	C	C4-C5	-6.00	1.38	1.43
1	N	161	A	N3-C4	-6.00	1.31	1.34
1	N	211	G	P-O5'	-6.00	1.53	1.59
1	N	1291	U	P-O5'	-6.00	1.53	1.59
1	N	386	C	C5-C6	6.00	1.39	1.34
1	N	401	C	C3'-O3'	6.00	1.50	1.42
1	N	652	U	P-O5'	-6.00	1.53	1.59
1	N	1187	G	N1-C2	6.00	1.42	1.37
1	N	135	C	C5'-C4'	6.00	1.58	1.51
1	N	612	C	C4'-C3'	-6.00	1.46	1.52
1	N	1080	A	C8-N7	-6.00	1.27	1.31
1	N	583	A	C6-N6	6.00	1.38	1.33
1	N	546	A	C6-N1	5.99	1.39	1.35
1	N	560	A	C8-N7	-5.99	1.27	1.31
1	N	1261	A	N7-C5	-5.99	1.35	1.39
1	N	1508	A	C6-N1	5.99	1.39	1.35
1	N	110	C	C5'-C4'	5.99	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	623	C	C5'-C4'	5.99	1.58	1.51
1	N	726	C	C5-C6	-5.99	1.29	1.34
1	N	326	G	P-O5'	5.99	1.65	1.59
1	N	1257	A	C6-N6	5.99	1.38	1.33
1	N	1356	G	N7-C5	-5.99	1.35	1.39
1	N	399	G	N9-C4	-5.99	1.33	1.38
1	N	461	A	C6-N1	5.99	1.39	1.35
1	N	658	C	C4'-C3'	-5.99	1.46	1.52
1	N	755	G	C8-N7	-5.99	1.27	1.30
1	N	781	A	P-O5'	-5.99	1.53	1.59
1	N	786	G	N9-C8	-5.99	1.33	1.37
1	N	959	A	N9-C4	-5.99	1.34	1.37
1	N	498	A	C5-C4	5.99	1.43	1.38
1	N	216	U	C5'-C4'	5.98	1.58	1.51
1	N	1503	A	N9-C4	-5.98	1.34	1.37
1	N	196	A	C6-N1	5.98	1.39	1.35
1	N	665	A	C2'-C1'	-5.98	1.46	1.53
1	N	1106	G	P-O5'	5.98	1.65	1.59
1	N	1214	C	O4'-C1'	5.98	1.49	1.41
1	N	186	C	P-O5'	-5.98	1.53	1.59
1	N	302	G	N9-C4	-5.98	1.33	1.38
1	N	1382	C	O3'-P	-5.98	1.53	1.61
1	N	1074	G	C5-C4	5.98	1.42	1.38
1	N	21	G	N9-C8	5.98	1.42	1.37
1	N	190	A	N3-C4	-5.98	1.31	1.34
1	N	283	U	N1-C6	-5.98	1.32	1.38
1	N	656	G	N7-C5	-5.98	1.35	1.39
1	N	746	A	C6-N1	-5.98	1.31	1.35
1	N	746	A	C4'-C3'	5.98	1.59	1.53
1	N	46	G	C2-N2	5.98	1.40	1.34
1	N	109	A	C6-N6	5.98	1.38	1.33
1	N	267	C	O3'-P	-5.98	1.53	1.61
1	N	736	C	C1'-N1	5.98	1.57	1.48
1	N	718	A	C2'-C1'	-5.97	1.46	1.53
1	N	739	C	N1-C6	5.97	1.40	1.37
1	N	617	G	N9-C4	5.97	1.42	1.38
1	N	1404	C	N1-C6	5.97	1.40	1.37
1	N	1280	A	O3'-P	-5.97	1.53	1.61
1	N	1319	A	N7-C5	-5.97	1.35	1.39
1	N	1422	G	C2'-C1'	-5.97	1.46	1.53
1	N	33	A	C6-N1	5.97	1.39	1.35
1	N	260	G	C2-N3	5.97	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	298	A	C6-N6	5.97	1.38	1.33
1	N	464	U	N1-C2	-5.97	1.33	1.38
1	N	601	G	C8-N7	-5.97	1.27	1.30
1	N	1159	U	C4'-C3'	5.97	1.59	1.53
1	N	1058	G	N9-C4	-5.97	1.33	1.38
1	N	1089	G	P-O5'	-5.97	1.53	1.59
1	N	314	C	C4-N4	5.97	1.39	1.33
1	N	660	C	N1-C2	-5.97	1.34	1.40
1	N	1178	G	C3'-O3'	5.97	1.50	1.42
1	N	1303	C	C4-N4	5.97	1.39	1.33
1	N	1473	G	C3'-O3'	5.97	1.50	1.42
1	N	480	U	C3'-C2'	5.96	1.59	1.52
1	N	680	C	C2-N3	5.96	1.40	1.35
1	N	863	U	P-O5'	-5.96	1.53	1.59
1	N	1030	U	N3-C4	5.96	1.43	1.38
1	N	1194	U	N3-C4	5.96	1.43	1.38
1	N	395	C	C4-N4	5.96	1.39	1.33
1	N	766	A	P-O5'	-5.96	1.53	1.59
1	N	1214	C	C2-N3	5.96	1.40	1.35
1	N	1361	G	C5'-C4'	5.96	1.58	1.51
1	N	445	G	P-O5'	-5.96	1.53	1.59
1	N	451	A	N3-C4	-5.96	1.31	1.34
1	N	893	C	C4-N4	5.96	1.39	1.33
1	N	637	C	P-O5'	-5.96	1.53	1.59
1	N	291	U	C5'-C4'	5.96	1.58	1.51
1	N	20	U	P-O5'	-5.95	1.53	1.59
1	N	347	G	C2'-C1'	-5.95	1.46	1.53
1	N	1448	C	O3'-P	-5.95	1.54	1.61
1	N	615	G	N9-C4	-5.95	1.33	1.38
1	N	916	U	N1-C6	5.95	1.43	1.38
1	N	925	G	C5-C4	5.95	1.42	1.38
1	N	585	G	C4'-C3'	-5.95	1.46	1.52
1	N	232	G	C5'-C4'	5.95	1.58	1.51
1	N	1313	U	C4'-O4'	-5.95	1.37	1.45
1	N	104	G	N7-C5	-5.95	1.35	1.39
1	N	160	A	C3'-C2'	-5.95	1.46	1.52
1	N	380	G	C6-N1	5.95	1.43	1.39
1	N	57	G	C2-N2	5.95	1.40	1.34
1	N	82	G	C6-N1	5.95	1.43	1.39
1	N	516	U	N3-C4	5.95	1.43	1.38
1	N	1117	A	C6-N1	5.95	1.39	1.35
1	N	1117	A	O4'-C1'	-5.95	1.33	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1129	C	C2-N3	5.95	1.40	1.35
1	N	843	U	C5-C6	-5.94	1.28	1.34
1	N	907	A	P-O5'	-5.94	1.53	1.59
1	N	1100	C	C5'-C4'	5.94	1.58	1.51
1	N	1249	C	N1-C6	5.94	1.40	1.37
1	N	81	A	C5-C4	-5.94	1.34	1.38
1	N	1219	A	O3'-P	-5.94	1.54	1.61
1	N	1350	A	C6-N6	5.94	1.38	1.33
1	N	1410	A	P-O5'	-5.94	1.53	1.59
1	N	1498	U	N1-C6	5.94	1.43	1.38
1	N	38	G	N3-C4	5.94	1.39	1.35
1	N	738	C	C2'-C1'	5.94	1.59	1.53
1	N	967	C	N1-C6	-5.94	1.33	1.37
1	N	1306	A	O3'-P	-5.94	1.54	1.61
1	N	1003	G	O3'-P	-5.94	1.54	1.61
1	N	1421	G	C4'-C3'	5.94	1.59	1.53
1	N	486	U	P-O5'	5.93	1.65	1.59
1	N	1446	A	C3'-C2'	-5.93	1.46	1.52
1	N	50	A	C5-C4	5.93	1.43	1.38
1	N	209	U	N3-C4	5.93	1.43	1.38
1	N	210	C	O3'-P	-5.93	1.54	1.61
1	N	1050	G	N1-C2	5.93	1.42	1.37
1	N	1091	U	C1'-N1	5.93	1.57	1.48
1	N	310	G	N3-C4	-5.93	1.31	1.35
1	N	554	A	C8-N7	-5.93	1.27	1.31
1	N	155	A	C8-N7	5.93	1.35	1.31
1	N	368	U	C2-N3	5.93	1.42	1.37
1	N	473	U	C5'-C4'	5.93	1.58	1.51
1	N	686	U	C4-C5	5.93	1.48	1.43
1	N	1284	C	C2-O2	5.93	1.29	1.24
1	N	561	U	C4'-C3'	5.93	1.59	1.53
1	N	1461	G	C6-O6	5.93	1.29	1.24
1	N	82	G	N1-C2	5.92	1.42	1.37
1	N	742	G	C2-N2	5.92	1.40	1.34
1	N	809	G	C2-N2	5.92	1.40	1.34
1	N	1060	U	C2'-C1'	-5.92	1.46	1.53
1	N	1491	G	C4'-O4'	-5.92	1.37	1.45
1	N	1151	A	N7-C5	-5.92	1.35	1.39
1	N	202	G	N1-C2	5.92	1.42	1.37
1	N	289	G	N1-C2	5.92	1.42	1.37
1	N	431	A	C2'-C1'	-5.92	1.46	1.53
1	N	858	G	C1'-N9	5.92	1.57	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1491	G	O4'-C1'	-5.92	1.33	1.41
1	N	643	C	C4-N4	5.92	1.39	1.33
1	N	1486	G	C3'-C2'	-5.92	1.46	1.52
1	N	123	U	N1-C2	-5.92	1.33	1.38
1	N	459	A	P-O5'	5.92	1.65	1.59
1	N	1288	A	C2'-C1'	-5.92	1.46	1.53
1	N	1277	C	P-O5'	-5.92	1.53	1.59
1	N	191	G	C6-N1	5.91	1.43	1.39
1	N	240	G	P-O5'	-5.91	1.53	1.59
1	N	741	G	C2-N3	5.91	1.37	1.32
1	N	952	U	N3-C4	5.91	1.43	1.38
1	N	1104	G	C3'-C2'	-5.91	1.46	1.52
1	N	1158	C	C4-C5	5.91	1.47	1.43
1	N	263	A	C5-C4	-5.91	1.34	1.38
1	N	403	C	N1-C6	5.91	1.40	1.37
1	N	505	G	N9-C4	5.91	1.42	1.38
1	N	683	G	N3-C4	5.91	1.39	1.35
1	N	1399	C	C5-C6	5.91	1.39	1.34
1	N	513	C	C2'-C1'	-5.91	1.46	1.53
1	N	917	G	C5-C6	-5.91	1.36	1.42
1	N	931	C	C2-N3	5.91	1.40	1.35
1	N	178	C	C3'-C2'	-5.91	1.46	1.52
1	N	1128	C	C2-N3	-5.91	1.31	1.35
1	N	1130	A	C5-C6	-5.91	1.35	1.41
1	N	1403	C	C4-N4	5.91	1.39	1.33
1	N	347	G	N1-C2	5.91	1.42	1.37
1	N	776	G	C3'-C2'	-5.91	1.46	1.52
1	N	117	G	C8-N7	-5.91	1.27	1.30
1	N	551	U	C3'-C2'	5.91	1.59	1.52
1	N	1129	C	C4-N4	5.91	1.39	1.33
1	N	1419	G	C2-N2	5.91	1.40	1.34
1	N	762	U	C2-N3	5.90	1.41	1.37
1	N	1265	C	P-O5'	-5.90	1.53	1.59
1	N	1323	G	C8-N7	5.90	1.34	1.30
1	N	1400	C	C4'-C3'	-5.90	1.46	1.52
1	N	1236	A	N9-C8	-5.90	1.33	1.37
1	N	242	G	C4'-C3'	5.90	1.59	1.53
1	N	1053	G	C2-N3	5.90	1.37	1.32
1	N	1161	C	C2-O2	5.90	1.29	1.24
1	N	1226	C	C4-N4	5.90	1.39	1.33
1	N	75	G	C2-N3	5.90	1.37	1.32
1	N	250	A	C5-C4	5.90	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	815	A	N7-C5	-5.90	1.35	1.39
1	N	1288	A	N9-C8	5.90	1.42	1.37
1	N	1257	A	N3-C4	-5.90	1.31	1.34
1	N	31	G	N9-C4	5.89	1.42	1.38
1	N	257	G	C2'-C1'	-5.89	1.46	1.53
1	N	1168	U	C5'-C4'	5.89	1.58	1.51
1	N	1182	G	C6-N1	5.89	1.43	1.39
1	N	34	C	N3-C4	5.89	1.38	1.33
1	N	506	G	C2-N3	5.89	1.37	1.32
1	N	535	A	C4'-O4'	-5.89	1.37	1.45
1	N	102	G	N7-C5	-5.89	1.35	1.39
1	N	248	C	C4-C5	5.89	1.47	1.43
1	N	622	A	N9-C4	5.89	1.41	1.37
1	N	1357	A	N9-C8	-5.89	1.33	1.37
1	N	1435	G	N7-C5	-5.89	1.35	1.39
1	N	1485	U	P-O5'	-5.89	1.53	1.59
1	N	64	G	C6-N1	5.89	1.43	1.39
1	N	461	A	C4'-C3'	-5.89	1.46	1.52
1	N	679	C	C4'-O4'	-5.89	1.37	1.45
1	N	1161	C	C2-N3	5.89	1.40	1.35
1	N	1169	A	C6-N1	5.89	1.39	1.35
1	N	1231	G	C8-N7	-5.89	1.27	1.30
1	N	93	U	N1-C2	-5.89	1.33	1.38
1	N	640	A	N3-C4	-5.89	1.31	1.34
1	N	1447	A	C6-N1	-5.89	1.31	1.35
1	N	626	G	C5-C4	5.89	1.42	1.38
1	N	713	G	C4'-O4'	-5.89	1.37	1.45
1	N	1126	U	C4-O4	-5.89	1.19	1.23
1	N	1306	A	C3'-O3'	5.89	1.50	1.42
1	N	8	A	N9-C8	-5.88	1.33	1.37
1	N	501	C	C5-C6	-5.88	1.29	1.34
1	N	785	G	C2'-C1'	5.88	1.59	1.53
1	N	1085	U	C2-N3	5.88	1.41	1.37
1	N	1111	A	C2'-O2'	-5.88	1.34	1.41
1	N	309	A	N9-C8	-5.88	1.33	1.37
1	N	900	A	C8-N7	-5.88	1.27	1.31
1	N	1124	G	N7-C5	-5.88	1.35	1.39
1	N	254	G	C6-N1	-5.88	1.35	1.39
1	N	696	A	N9-C4	5.88	1.41	1.37
1	N	1250	A	C4'-C3'	5.88	1.59	1.53
1	N	1320	C	O4'-C1'	5.88	1.49	1.41
1	N	1457	G	O4'-C1'	-5.88	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	889	A	N7-C5	-5.88	1.35	1.39
1	N	1025	U	O3'-P	-5.88	1.54	1.61
1	N	660	C	P-O5'	-5.88	1.53	1.59
1	N	753	A	N7-C5	-5.88	1.35	1.39
1	N	1266	G	C2'-C1'	-5.88	1.46	1.53
1	N	1360	A	O3'-P	-5.88	1.54	1.61
1	N	1447	A	N9-C4	-5.88	1.34	1.37
1	N	295	C	C1'-N1	5.88	1.57	1.48
1	N	462	G	C5-C4	-5.88	1.34	1.38
1	N	490	C	N1-C6	5.88	1.40	1.37
1	N	349	A	C4'-C3'	-5.88	1.46	1.52
1	N	640	A	C5'-C4'	-5.88	1.44	1.51
1	N	777	A	C2-N3	5.88	1.38	1.33
1	N	752	G	O3'-P	-5.87	1.54	1.61
1	N	815	A	C2'-C1'	-5.87	1.46	1.53
1	N	1022	A	C5-C6	5.87	1.46	1.41
1	N	101	A	N7-C5	-5.87	1.35	1.39
1	N	491	G	N7-C5	-5.87	1.35	1.39
1	N	23	C	C5-C6	-5.87	1.29	1.34
1	N	476	U	C4'-O4'	5.87	1.53	1.45
1	N	877	G	N7-C5	-5.87	1.35	1.39
1	N	1282	C	C1'-N1	5.87	1.57	1.48
1	N	1417	G	N9-C8	5.87	1.42	1.37
1	N	997	U	P-O5'	-5.86	1.53	1.59
1	N	1254	A	C8-N7	-5.86	1.27	1.31
1	N	192	A	C5-C6	5.86	1.46	1.41
1	N	251	G	C2'-C1'	-5.86	1.47	1.53
1	N	420	U	C2-O2	5.86	1.27	1.22
1	N	184	G	C3'-C2'	-5.86	1.46	1.52
1	N	150	U	P-O5'	-5.86	1.53	1.59
1	N	754	C	N3-C4	5.86	1.38	1.33
1	N	354	G	C5-C4	5.86	1.42	1.38
1	N	827	U	C2-N3	5.86	1.41	1.37
1	N	1023	U	P-O5'	5.86	1.65	1.59
1	N	1028	C	C4-N4	5.86	1.39	1.33
1	N	825	A	O5'-C5'	-5.85	1.33	1.42
1	N	33	A	N7-C5	5.85	1.42	1.39
1	N	121	U	C5'-C4'	5.85	1.58	1.51
1	N	842	U	N1-C2	5.85	1.43	1.38
1	N	1132	C	N1-C2	-5.85	1.34	1.40
1	N	1362	A	C6-N6	5.85	1.38	1.33
1	N	403	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	520	A	C5-C6	-5.85	1.35	1.41
1	N	693	G	N7-C5	-5.85	1.35	1.39
1	N	16	A	C8-N7	5.85	1.35	1.31
1	N	575	G	C5-C4	5.85	1.42	1.38
1	N	1413	A	P-O5'	-5.85	1.53	1.59
1	N	1459	G	C2'-O2'	-5.85	1.34	1.41
1	N	119	A	N9-C4	5.85	1.41	1.37
1	N	800	G	N7-C5	-5.85	1.35	1.39
1	N	1325	C	C1'-N1	5.85	1.57	1.48
1	N	1444	U	N1-C6	5.85	1.43	1.38
1	N	517	G	C3'-O3'	-5.84	1.33	1.42
1	N	573	A	C2'-O2'	-5.84	1.34	1.41
1	N	892	A	C2-N3	-5.84	1.28	1.33
1	N	356	A	O3'-P	5.84	1.68	1.61
1	N	834	U	N3-C4	5.84	1.43	1.38
1	N	539	A	C8-N7	-5.84	1.27	1.31
1	N	1419	G	N7-C5	-5.84	1.35	1.39
1	N	1473	G	C5'-C4'	5.84	1.58	1.51
1	N	116	A	N7-C5	-5.84	1.35	1.39
1	N	503	C	N3-C4	5.84	1.38	1.33
1	N	514	C	C1'-N1	5.84	1.57	1.48
1	N	1176	A	C6-N6	5.84	1.38	1.33
1	N	1219	A	C2'-C1'	-5.84	1.47	1.53
1	N	1498	U	O3'-P	-5.84	1.54	1.61
1	N	1505	G	N1-C2	5.84	1.42	1.37
1	N	568	G	P-O5'	-5.84	1.53	1.59
1	N	681	A	N7-C5	5.84	1.42	1.39
1	N	899	C	C5-C6	5.84	1.39	1.34
1	N	918	A	N3-C4	-5.84	1.31	1.34
1	N	1061	G	N9-C8	5.84	1.42	1.37
1	N	1142	G	C3'-C2'	5.84	1.59	1.52
1	N	1228	C	C5'-C4'	5.83	1.58	1.51
1	N	1495	U	P-O5'	-5.83	1.53	1.59
1	N	1143	G	C3'-O3'	-5.83	1.33	1.42
1	N	1345	U	C2-N3	5.83	1.41	1.37
1	N	1465	A	N9-C4	-5.83	1.34	1.37
1	N	1480	A	N7-C5	-5.83	1.35	1.39
1	N	934	C	N3-C4	5.83	1.38	1.33
1	N	1049	U	C5'-C4'	5.83	1.58	1.51
1	N	213	G	O4'-C1'	5.83	1.49	1.41
1	N	690	G	C5-C4	-5.83	1.34	1.38
1	N	51	A	C4'-C3'	-5.82	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	268	U	N1-C2	-5.82	1.33	1.38
1	N	379	C	C4-N4	5.82	1.39	1.33
1	N	456	A	C2'-C1'	-5.82	1.47	1.53
1	N	1410	A	N9-C4	5.82	1.41	1.37
1	N	410	G	N9-C8	-5.82	1.33	1.37
1	N	616	G	N1-C2	5.82	1.42	1.37
1	N	642	A	N9-C8	-5.82	1.33	1.37
1	N	1290	G	O3'-P	-5.82	1.54	1.61
1	N	1495	U	C2-N3	5.82	1.41	1.37
1	N	1495	U	C4-C5	-5.82	1.38	1.43
1	N	255	G	O3'-P	-5.82	1.54	1.61
1	N	315	A	N9-C4	-5.82	1.34	1.37
1	N	831	A	N3-C4	-5.82	1.31	1.34
1	N	1184	G	N9-C8	5.82	1.42	1.37
1	N	1400	C	C2'-C1'	-5.82	1.47	1.53
1	N	1408	A	C5'-C4'	5.82	1.58	1.51
1	N	1456	A	C4'-C3'	-5.82	1.46	1.52
1	N	145	G	C6-N1	5.82	1.43	1.39
1	N	1533	C	C2'-C1'	-5.82	1.47	1.53
1	N	299	G	C5-C4	5.82	1.42	1.38
1	N	424	G	C1'-N9	5.82	1.57	1.48
1	N	606	G	N9-C4	5.82	1.42	1.38
1	N	972	C	C4-N4	5.82	1.39	1.33
1	N	1338	G	P-O5'	-5.82	1.53	1.59
1	N	192	A	N3-C4	5.82	1.38	1.34
1	N	331	G	C3'-O3'	5.82	1.50	1.42
1	N	664	G	C2-N3	5.82	1.37	1.32
1	N	1185	G	N1-C2	5.82	1.42	1.37
1	N	301	G	N3-C4	-5.81	1.31	1.35
1	N	1088	G	C2'-C1'	-5.81	1.47	1.53
1	N	103	U	C3'-O3'	5.81	1.50	1.42
1	N	480	U	C2-N3	5.81	1.41	1.37
1	N	1428	A	N1-C2	5.81	1.39	1.34
1	N	550	G	C5-C4	5.81	1.42	1.38
1	N	222	C	N1-C6	5.81	1.40	1.37
1	N	253	A	N9-C4	-5.81	1.34	1.37
1	N	1103	C	C2-N3	5.81	1.40	1.35
1	N	1367	C	O3'-P	-5.81	1.54	1.61
1	N	546	A	N9-C8	-5.81	1.33	1.37
1	N	761	G	C2-N2	5.81	1.40	1.34
1	N	1279	G	C2-N2	5.81	1.40	1.34
1	N	502	A	N9-C4	-5.80	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1004	A	C2'-C1'	-5.80	1.47	1.53
1	N	694	A	O3'-P	-5.80	1.54	1.61
1	N	510	A	C8-N7	5.80	1.35	1.31
1	N	607	A	N9-C4	5.80	1.41	1.37
1	N	768	A	C6-N1	5.80	1.39	1.35
1	N	290	C	C2-N3	5.80	1.40	1.35
1	N	481	G	N3-C4	-5.80	1.31	1.35
1	N	509	A	C5-C4	5.80	1.42	1.38
1	N	817	C	C2-N3	5.80	1.40	1.35
1	N	873	A	P-O5'	5.80	1.65	1.59
1	N	1096	C	C3'-O3'	5.80	1.50	1.42
1	N	1299	A	N9-C4	-5.80	1.34	1.37
1	N	397	A	C5'-C4'	5.80	1.58	1.51
1	N	668	G	C5-C6	-5.80	1.36	1.42
1	N	1459	G	C6-N1	5.80	1.43	1.39
1	N	122	G	C5-C4	5.80	1.42	1.38
1	N	656	G	C2-N2	5.80	1.40	1.34
1	N	1040	U	C4'-C3'	-5.80	1.46	1.52
1	N	1208	C	C3'-C2'	-5.80	1.46	1.52
1	N	1352	C	C2-N3	5.80	1.40	1.35
1	N	165	G	C6-N1	5.79	1.43	1.39
1	N	1288	A	N1-C2	-5.79	1.29	1.34
1	N	1381	U	C5'-C4'	5.79	1.58	1.51
1	N	187	G	C3'-C2'	-5.79	1.46	1.52
1	N	733	G	C2-N2	5.79	1.40	1.34
1	N	765	G	N9-C8	5.79	1.42	1.37
1	N	898	G	C6-N1	-5.79	1.35	1.39
1	N	1287	A	C6-N1	5.79	1.39	1.35
1	N	1228	C	C4-C5	-5.79	1.38	1.43
1	N	315	A	C3'-C2'	-5.79	1.46	1.52
1	N	633	G	C3'-C2'	-5.79	1.46	1.52
1	N	692	U	C2-N3	5.79	1.41	1.37
1	N	877	G	C2-N2	5.79	1.40	1.34
1	N	1093	A	N9-C8	5.79	1.42	1.37
1	N	1281	C	N1-C6	5.79	1.40	1.37
1	N	207	C	C4-N4	5.78	1.39	1.33
1	N	1368	A	C6-N6	5.78	1.38	1.33
1	N	1428	A	C5-C4	5.78	1.42	1.38
1	N	412	A	C6-N1	5.78	1.39	1.35
1	N	470	C	C4-N4	-5.78	1.28	1.33
1	N	774	G	N7-C5	-5.78	1.35	1.39
1	N	1279	G	N1-C2	5.78	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	170	U	P-O5'	-5.78	1.53	1.59
1	N	383	A	C5-C4	5.78	1.42	1.38
1	N	949	A	C3'-O3'	5.78	1.50	1.42
1	N	1207	G	N1-C2	5.78	1.42	1.37
1	N	272	C	O3'-P	-5.78	1.54	1.61
1	N	1002	G	C2-N3	5.78	1.37	1.32
1	N	1084	G	C6-N1	5.78	1.43	1.39
1	N	1195	C	N1-C6	5.78	1.40	1.37
1	N	437	U	C3'-O3'	5.78	1.50	1.42
1	N	1510	C	C1'-N1	5.78	1.57	1.48
1	N	540	G	N9-C4	-5.77	1.33	1.38
1	N	554	A	C2-N3	5.77	1.38	1.33
1	N	1017	U	C4-O4	-5.77	1.19	1.23
1	N	1379	G	C6-O6	5.77	1.29	1.24
1	N	345	C	N1-C6	5.77	1.40	1.37
1	N	352	C	C2'-C1'	-5.77	1.47	1.53
1	N	515	G	C5-C6	-5.77	1.36	1.42
1	N	696	A	N9-C8	5.77	1.42	1.37
1	N	1203	C	C5'-C4'	5.77	1.58	1.51
1	N	1258	G	N1-C2	5.77	1.42	1.37
1	N	88	U	C3'-O3'	5.77	1.50	1.42
1	N	298	A	C5-C6	5.77	1.46	1.41
1	N	328	C	C4'-C3'	5.77	1.59	1.53
1	N	1184	G	O4'-C1'	-5.77	1.34	1.41
1	N	615	G	C6-N1	5.77	1.43	1.39
1	N	740	U	C2'-C1'	5.77	1.59	1.53
1	N	507	C	C3'-O3'	5.77	1.50	1.42
1	N	580	C	N1-C6	-5.77	1.33	1.37
1	N	1180	A	O3'-P	-5.77	1.54	1.61
1	N	522	C	O3'-P	-5.76	1.54	1.61
1	N	756	C	C2'-C1'	-5.76	1.47	1.53
1	N	1341	U	N1-C6	-5.76	1.32	1.38
1	N	1342	C	O3'-P	5.76	1.68	1.61
1	N	79	G	C2-N2	5.76	1.40	1.34
1	N	244	U	C2'-C1'	-5.76	1.47	1.53
1	N	1012	A	N9-C4	5.76	1.41	1.37
1	N	1174	G	C5-C6	-5.76	1.36	1.42
1	N	1369	C	C4-N4	5.76	1.39	1.33
1	N	1442	G	C5'-C4'	5.76	1.58	1.51
1	N	1031	C	C5'-C4'	5.76	1.58	1.51
1	N	1318	A	C4'-O4'	5.76	1.53	1.45
1	N	1401	G	C6-O6	5.76	1.29	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	381	C	C4-C5	5.76	1.47	1.43
1	N	785	G	N1-C2	5.76	1.42	1.37
1	N	1401	G	C4'-C3'	5.76	1.59	1.53
1	N	52	C	C5'-C4'	5.76	1.58	1.51
1	N	852	G	N9-C8	5.76	1.41	1.37
1	N	976	G	C8-N7	-5.76	1.27	1.30
1	N	1224	U	N1-C2	5.76	1.43	1.38
1	N	1375	A	C5-C6	-5.76	1.35	1.41
1	N	360	G	O4'-C1'	5.75	1.49	1.41
1	N	771	G	C2-N3	5.75	1.37	1.32
1	N	320	A	C2-N3	-5.75	1.28	1.33
1	N	395	C	C4-C5	5.75	1.47	1.43
1	N	824	G	N9-C8	-5.75	1.33	1.37
1	N	1075	U	C4-C5	5.75	1.48	1.43
1	N	1076	U	O4'-C1'	-5.75	1.34	1.41
1	N	98	A	O4'-C1'	-5.75	1.34	1.41
1	N	326	G	C2-N3	5.75	1.37	1.32
1	N	629	A	C2'-C1'	-5.75	1.47	1.53
1	N	749	A	C4'-O4'	-5.75	1.38	1.45
1	N	1487	G	C5'-C4'	5.75	1.58	1.51
1	N	858	G	N7-C5	-5.75	1.35	1.39
1	N	1522	U	P-O5'	-5.75	1.54	1.59
1	N	675	A	C2-N3	5.74	1.38	1.33
1	N	474	G	C2-N2	5.74	1.40	1.34
1	N	558	G	P-O5'	-5.74	1.54	1.59
1	N	1325	C	C4'-O4'	5.74	1.53	1.45
1	N	1484	C	C2-N3	5.74	1.40	1.35
1	N	191	G	C5-C4	5.74	1.42	1.38
1	N	496	A	C3'-O3'	5.74	1.50	1.42
1	N	1516	G	C4'-C3'	-5.74	1.46	1.52
1	N	407	U	C4-O4	-5.74	1.19	1.23
1	N	665	A	P-O5'	5.74	1.65	1.59
1	N	318	G	C1'-N9	5.74	1.57	1.48
1	N	689	C	C3'-O3'	5.74	1.50	1.42
1	N	1101	A	C8-N7	-5.74	1.27	1.31
1	N	1460	C	C3'-C2'	-5.74	1.46	1.52
1	N	750	C	C4-C5	5.73	1.47	1.43
1	N	1086	U	N1-C6	-5.73	1.32	1.38
1	N	1146	A	N1-C2	5.73	1.39	1.34
1	N	13	U	C4'-C3'	5.73	1.59	1.53
1	N	426	U	C4-C5	5.73	1.48	1.43
1	N	972	C	C5-C6	-5.73	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	972	C	N3-C4	5.73	1.38	1.33
1	N	1100	C	C2'-O2'	-5.73	1.34	1.41
1	N	1433	A	C2'-C1'	-5.73	1.47	1.53
1	N	1489	G	N9-C8	-5.73	1.33	1.37
1	N	71	A	C1'-N9	5.73	1.57	1.48
1	N	664	G	N9-C4	-5.73	1.33	1.38
1	N	862	C	C2-N3	5.73	1.40	1.35
1	N	1084	G	N3-C4	5.73	1.39	1.35
1	N	1268	G	N3-C4	-5.73	1.31	1.35
1	N	1316	G	N9-C4	-5.73	1.33	1.38
1	N	282	A	C5'-C4'	5.73	1.58	1.51
1	N	922	G	C5-C6	-5.73	1.36	1.42
1	N	1248	A	N7-C5	-5.73	1.35	1.39
1	N	1294	G	N3-C4	-5.73	1.31	1.35
1	N	1461	G	N1-C2	5.73	1.42	1.37
1	N	1527	U	C5-C6	5.73	1.39	1.34
1	N	32	A	O3'-P	-5.73	1.54	1.61
1	N	582	C	P-O5'	-5.73	1.54	1.59
1	N	718	A	N9-C8	-5.73	1.33	1.37
1	N	1375	A	C8-N7	-5.73	1.27	1.31
1	N	1513	A	N9-C4	-5.73	1.34	1.37
1	N	354	G	C2-N3	5.73	1.37	1.32
1	N	1365	G	C2-N3	5.73	1.37	1.32
1	N	1455	G	C2-N3	5.73	1.37	1.32
1	N	12	U	P-O5'	-5.72	1.54	1.59
1	N	90	C	N1-C6	5.72	1.40	1.37
1	N	1299	A	C5-C6	-5.72	1.35	1.41
1	N	1492	A	C3'-O3'	5.72	1.50	1.42
1	N	14	U	O4'-C1'	5.72	1.49	1.41
1	N	45	G	C6-N1	5.72	1.43	1.39
1	N	118	U	C3'-C2'	5.72	1.59	1.52
1	N	558	G	C4'-C3'	5.72	1.59	1.53
1	N	1269	A	C5-C6	5.72	1.46	1.41
1	N	1293	C	C1'-N1	5.72	1.57	1.48
1	N	975	A	C8-N7	5.72	1.35	1.31
1	N	47	C	N3-C4	5.72	1.38	1.33
1	N	73	C	C4-N4	5.72	1.39	1.33
1	N	696	A	N1-C2	5.72	1.39	1.34
1	N	1222	G	C2-N3	5.72	1.37	1.32
1	N	1366	C	C5-C6	-5.72	1.29	1.34
1	N	1419	G	C8-N7	-5.72	1.27	1.30
1	N	24	U	C4-O4	-5.72	1.19	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	137	U	N1-C2	5.72	1.43	1.38
1	N	563	A	C8-N7	-5.72	1.27	1.31
1	N	1441	A	C3'-O3'	5.72	1.50	1.42
1	N	95	C	P-O5'	5.71	1.65	1.59
1	N	105	G	N1-C2	5.71	1.42	1.37
1	N	336	A	C6-N6	5.71	1.38	1.33
1	N	527	G	C5'-C4'	5.71	1.58	1.51
1	N	1282	C	N1-C6	5.71	1.40	1.37
1	N	12	U	C4'-C3'	-5.71	1.46	1.52
1	N	433	G	C3'-C2'	5.71	1.59	1.52
1	N	441	A	C6-N6	5.71	1.38	1.33
1	N	731	G	N9-C4	-5.71	1.33	1.38
1	N	1506	U	C4'-C3'	5.71	1.59	1.53
1	N	980	C	N3-C4	5.71	1.38	1.33
1	N	1275	A	C4'-O4'	5.71	1.52	1.45
1	N	83	C	C5-C6	-5.71	1.29	1.34
1	N	445	G	C2'-C1'	5.71	1.59	1.53
1	N	259	G	C6-N1	5.71	1.43	1.39
1	N	318	G	N7-C5	-5.71	1.35	1.39
1	N	392	C	N3-C4	5.71	1.38	1.33
1	N	513	C	O4'-C1'	5.71	1.49	1.41
1	N	1161	C	C4-N4	5.71	1.39	1.33
1	N	1335	U	N1-C2	5.71	1.43	1.38
1	N	541	G	C2'-O2'	-5.71	1.34	1.41
1	N	929	G	N9-C4	5.70	1.42	1.38
1	N	984	C	C2'-C1'	-5.70	1.47	1.53
1	N	1483	A	C4'-O4'	5.70	1.52	1.45
1	N	933	G	N3-C4	-5.70	1.31	1.35
1	N	772	U	O3'-P	-5.70	1.54	1.61
1	N	465	A	C6-N6	5.70	1.38	1.33
1	N	823	C	O3'-P	-5.70	1.54	1.61
1	N	997	U	C1'-N1	5.70	1.57	1.48
1	N	925	G	N1-C2	5.70	1.42	1.37
1	N	1423	G	N3-C4	-5.70	1.31	1.35
1	N	33	A	C5-C4	5.70	1.42	1.38
1	N	133	U	P-O5'	-5.70	1.54	1.59
1	N	222	C	C4-N4	5.70	1.39	1.33
1	N	644	U	N1-C2	5.70	1.43	1.38
1	N	1131	G	C4'-C3'	5.70	1.59	1.53
1	N	1297	G	C5'-C4'	5.70	1.58	1.51
1	N	588	G	N7-C5	-5.69	1.35	1.39
1	N	335	C	N3-C4	5.69	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	975	A	O3'-P	-5.69	1.54	1.61
1	N	1215	G	C5'-C4'	5.69	1.58	1.51
1	N	30	U	C2-O2	5.69	1.27	1.22
1	N	1029	U	N1-C6	5.69	1.43	1.38
1	N	126	G	N7-C5	-5.69	1.35	1.39
1	N	1308	U	N1-C6	5.69	1.43	1.38
1	N	45	G	N1-C2	5.69	1.42	1.37
1	N	282	A	N3-C4	-5.69	1.31	1.34
1	N	422	C	C2-N3	5.69	1.40	1.35
1	N	699	C	P-O5'	-5.69	1.54	1.59
1	N	78	A	C8-N7	-5.68	1.27	1.31
1	N	128	G	C2-N3	5.68	1.37	1.32
1	N	454	G	C2-N3	5.68	1.37	1.32
1	N	538	G	N7-C5	-5.68	1.35	1.39
1	N	585	G	N7-C5	5.68	1.42	1.39
1	N	1087	G	C5-C6	-5.68	1.36	1.42
1	N	1361	G	O3'-P	-5.68	1.54	1.61
1	N	1395	C	C4-C5	5.68	1.47	1.43
1	N	1445	U	C5'-C4'	5.68	1.58	1.51
1	N	102	G	N3-C4	-5.68	1.31	1.35
1	N	877	G	N9-C8	-5.68	1.33	1.37
1	N	188	C	C4-C5	5.68	1.47	1.43
1	N	371	A	C6-N1	5.68	1.39	1.35
1	N	733	G	C6-N1	5.68	1.43	1.39
1	N	1295	U	C2-N3	5.68	1.41	1.37
1	N	452	A	C5'-C4'	5.68	1.58	1.51
1	N	1133	G	C5'-C4'	5.68	1.58	1.51
1	N	1328	C	O3'-P	-5.68	1.54	1.61
1	N	10	A	C6-N1	5.68	1.39	1.35
1	N	134	G	C2'-C1'	-5.68	1.47	1.53
1	N	369	G	N9-C4	-5.68	1.33	1.38
1	N	925	G	C5'-C4'	5.68	1.58	1.51
1	N	1095	U	C2-N3	5.68	1.41	1.37
1	N	1166	G	N7-C5	-5.68	1.35	1.39
1	N	1483	A	C6-N6	5.68	1.38	1.33
1	N	240	G	C6-N1	5.67	1.43	1.39
1	N	699	C	N3-C4	5.67	1.38	1.33
1	N	888	G	C2-N3	5.67	1.37	1.32
1	N	48	C	N3-C4	5.67	1.38	1.33
1	N	315	A	C4'-C3'	5.67	1.59	1.53
1	N	595	A	C6-N1	5.67	1.39	1.35
1	N	788	U	C3'-O3'	5.67	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	913	A	O3'-P	-5.67	1.54	1.61
1	N	1346	A	C5'-C4'	5.67	1.58	1.51
1	N	505	G	C6-N1	5.67	1.43	1.39
1	N	527	G	N9-C8	-5.67	1.33	1.37
1	N	685	G	N1-C2	5.67	1.42	1.37
1	N	1060	U	C4-C5	-5.67	1.38	1.43
1	N	1298	U	C4'-C3'	-5.67	1.46	1.52
1	N	1495	U	C3'-C2'	5.67	1.59	1.52
1	N	70	U	C3'-O3'	5.67	1.50	1.42
1	N	421	U	C2-O2	5.67	1.27	1.22
1	N	567	G	C2-N2	5.67	1.40	1.34
1	N	396	C	C1'-N1	5.67	1.57	1.48
1	N	1250	A	C8-N7	5.67	1.35	1.31
1	N	449	G	C5-C4	5.67	1.42	1.38
1	N	536	C	C5'-C4'	5.67	1.58	1.51
1	N	542	G	C8-N7	-5.67	1.27	1.30
1	N	858	G	P-O5'	-5.67	1.54	1.59
1	N	864	A	C5-C6	5.67	1.46	1.41
1	N	1503	A	C4'-O4'	-5.67	1.38	1.45
1	N	1504	G	C5-C4	-5.67	1.34	1.38
1	N	248	C	N1-C6	5.67	1.40	1.37
1	N	27	G	C3'-O3'	5.66	1.50	1.42
1	N	932	C	C4-N4	5.66	1.39	1.33
1	N	1285	A	C2-N3	5.66	1.38	1.33
1	N	1357	A	C6-N6	5.66	1.38	1.33
1	N	1134	G	N7-C5	-5.66	1.35	1.39
1	N	1296	C	C4'-C3'	5.66	1.59	1.53
1	N	1457	G	N1-C2	5.66	1.42	1.37
1	N	743	A	C8-N7	-5.66	1.27	1.31
1	N	303	A	P-O5'	-5.66	1.54	1.59
1	N	496	A	C6-N1	5.66	1.39	1.35
1	N	813	U	C3'-O3'	5.66	1.50	1.42
1	N	60	A	N9-C4	5.66	1.41	1.37
1	N	485	U	O3'-P	-5.66	1.54	1.61
1	N	325	A	C2-N3	5.65	1.38	1.33
1	N	96	U	C3'-C2'	5.65	1.59	1.52
1	N	975	A	C6-N1	5.65	1.39	1.35
1	N	105	G	O3'-P	-5.65	1.54	1.61
1	N	212	G	N7-C5	-5.65	1.35	1.39
1	N	451	A	P-O5'	-5.65	1.54	1.59
1	N	1100	C	C4-N4	-5.65	1.28	1.33
1	N	1250	A	N7-C5	-5.65	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1378	C	C3'-O3'	5.65	1.50	1.42
1	N	885	G	C3'-C2'	5.65	1.59	1.52
1	N	1014	A	C5'-C4'	5.65	1.58	1.51
1	N	1072	G	C5-C6	-5.65	1.36	1.42
1	N	220	G	P-O5'	-5.65	1.54	1.59
1	N	435	A	C6-N6	5.65	1.38	1.33
1	N	374	A	C6-N6	5.64	1.38	1.33
1	N	600	A	P-O5'	-5.64	1.54	1.59
1	N	1063	C	C3'-O3'	5.64	1.50	1.42
1	N	463	U	N3-C4	5.64	1.43	1.38
1	N	500	G	C5'-C4'	5.64	1.58	1.51
1	N	623	C	N1-C6	5.64	1.40	1.37
1	N	938	A	O3'-P	-5.64	1.54	1.61
1	N	971	G	N9-C8	5.64	1.41	1.37
1	N	1159	U	C3'-C2'	5.64	1.59	1.52
1	N	1376	U	C4-O4	-5.64	1.19	1.23
1	N	1476	A	C5-C4	5.64	1.42	1.38
1	N	265	G	N7-C5	-5.64	1.35	1.39
1	N	279	A	C6-N1	5.64	1.39	1.35
1	N	572	A	C6-N6	5.64	1.38	1.33
1	N	744	C	C3'-C2'	5.64	1.59	1.52
1	N	847	G	C6-N1	5.64	1.43	1.39
1	N	1115	U	N1-C6	5.63	1.43	1.38
1	N	1282	C	C4'-C3'	5.63	1.59	1.53
1	N	1513	A	C5'-C4'	5.63	1.58	1.51
1	N	676	A	C8-N7	-5.63	1.27	1.31
1	N	85	U	C2-N3	5.63	1.41	1.37
1	N	162	A	C4'-C3'	5.63	1.59	1.53
1	N	253	A	N3-C4	5.63	1.38	1.34
1	N	1105	A	C6-N1	5.63	1.39	1.35
1	N	97	G	N9-C8	5.63	1.41	1.37
1	N	393	A	C6-N6	5.63	1.38	1.33
1	N	1337	G	C6-N1	5.63	1.43	1.39
1	N	973	G	C2-N3	5.63	1.37	1.32
1	N	1305	G	C8-N7	5.63	1.34	1.30
1	N	1468	A	N7-C5	-5.63	1.35	1.39
1	N	675	A	P-O5'	5.62	1.65	1.59
1	N	24	U	C5'-C4'	5.62	1.58	1.51
1	N	164	G	N9-C4	-5.62	1.33	1.38
1	N	344	A	C2'-O2'	5.62	1.49	1.41
1	N	856	C	C1'-N1	5.62	1.57	1.48
1	N	26	A	N9-C8	-5.62	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1150	A	P-O5'	-5.62	1.54	1.59
1	N	1403	C	O3'-P	5.62	1.67	1.61
1	N	455	G	P-O5'	-5.62	1.54	1.59
1	N	926	G	C1'-N9	5.62	1.57	1.48
1	N	1106	G	C2-N3	5.62	1.37	1.32
1	N	1123	U	N1-C6	-5.62	1.32	1.38
1	N	1308	U	C2'-C1'	-5.62	1.47	1.53
1	N	102	G	C8-N7	-5.62	1.27	1.30
1	N	105	G	N7-C5	-5.62	1.35	1.39
1	N	653	U	N1-C6	5.62	1.43	1.38
1	N	1241	G	C5'-C4'	5.62	1.58	1.51
1	N	159	G	C5-C6	-5.62	1.36	1.42
1	N	1402	C	N1-C6	5.62	1.40	1.37
1	N	493	A	N1-C2	5.62	1.39	1.34
1	N	1366	C	N1-C6	5.62	1.40	1.37
1	N	1392	G	C1'-N9	-5.62	1.39	1.46
1	N	355	C	N3-C4	5.61	1.37	1.33
1	N	385	C	C4-C5	5.61	1.47	1.43
1	N	560	A	C3'-C2'	5.61	1.59	1.52
1	N	675	A	C5-C4	5.61	1.42	1.38
1	N	763	G	N9-C4	-5.61	1.33	1.38
1	N	914	A	O3'-P	-5.61	1.54	1.61
1	N	119	A	C2-N3	5.61	1.38	1.33
1	N	599	C	C5'-C4'	5.61	1.58	1.51
1	N	925	G	C2'-C1'	-5.61	1.47	1.53
1	N	1364	U	C2-N3	5.61	1.41	1.37
1	N	232	G	N9-C4	-5.61	1.33	1.38
1	N	322	C	N3-C4	5.61	1.37	1.33
1	N	338	A	C5-C6	-5.61	1.36	1.41
1	N	424	G	C5'-C4'	5.61	1.58	1.51
1	N	526	C	C4'-C3'	5.61	1.59	1.53
1	N	1168	U	N1-C6	5.61	1.43	1.38
1	N	1442	G	O3'-P	-5.61	1.54	1.61
1	N	1494	G	C5'-C4'	5.61	1.58	1.51
1	N	399	G	N9-C8	5.61	1.41	1.37
1	N	1017	U	C5'-C4'	5.61	1.58	1.51
1	N	328	C	O4'-C1'	-5.61	1.34	1.41
1	N	891	U	C4'-O4'	5.61	1.52	1.45
1	N	1105	A	C2-N3	5.61	1.38	1.33
1	N	1154	G	N1-C2	5.61	1.42	1.37
1	N	1177	G	C2'-O2'	-5.61	1.34	1.41
1	N	1349	A	C6-N6	5.61	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	616	G	C2-N3	5.61	1.37	1.32
1	N	645	G	C3'-O3'	5.61	1.50	1.42
1	N	704	A	N9-C4	-5.61	1.34	1.37
1	N	939	G	N9-C8	5.61	1.41	1.37
1	N	942	G	C6-N1	-5.61	1.35	1.39
1	N	1182	G	C2'-C1'	-5.61	1.47	1.53
1	N	425	G	C5-C4	5.60	1.42	1.38
1	N	58	C	N3-C4	5.60	1.37	1.33
1	N	192	A	O4'-C1'	5.60	1.49	1.41
1	N	226	G	C8-N7	-5.60	1.27	1.30
1	N	330	C	C5'-C4'	5.60	1.58	1.51
1	N	421	U	C4-C5	-5.60	1.38	1.43
1	N	598	U	C2'-O2'	-5.60	1.34	1.41
1	N	612	C	C5-C6	5.60	1.38	1.34
1	N	907	A	N9-C4	5.60	1.41	1.37
1	N	1055	A	C6-N6	-5.60	1.29	1.33
1	N	1185	G	N9-C4	-5.60	1.33	1.38
1	N	1260	G	C5'-C4'	5.60	1.58	1.51
1	N	456	A	N9-C4	5.60	1.41	1.37
1	N	373	A	O3'-P	-5.60	1.54	1.61
1	N	496	A	P-O5'	5.60	1.65	1.59
1	N	1108	G	C5-C4	5.60	1.42	1.38
1	N	201	G	C2-N2	-5.60	1.28	1.34
1	N	774	G	C2-N3	5.60	1.37	1.32
1	N	776	G	C8-N7	-5.60	1.27	1.30
1	N	1026	G	O3'-P	-5.60	1.54	1.61
1	N	1382	C	C4'-C3'	5.60	1.59	1.53
1	N	1521	C	C5-C6	-5.60	1.29	1.34
1	N	620	C	C5-C6	-5.60	1.29	1.34
1	N	10	A	N7-C5	-5.59	1.35	1.39
1	N	1139	G	O3'-P	-5.59	1.54	1.61
1	N	1311	A	P-O5'	-5.59	1.54	1.59
1	N	1492	A	C4'-O4'	-5.59	1.38	1.45
1	N	104	G	C2'-C1'	5.59	1.59	1.53
1	N	421	U	C2'-C1'	-5.59	1.47	1.53
1	N	442	G	C5-C6	-5.59	1.36	1.42
1	N	1243	C	N3-C4	5.59	1.37	1.33
1	N	1301	U	N1-C2	5.59	1.43	1.38
1	N	1460	C	N3-C4	5.59	1.37	1.33
1	N	377	G	O3'-P	-5.59	1.54	1.61
1	N	607	A	P-O5'	-5.59	1.54	1.59
1	N	946	A	N1-C2	5.59	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1061	G	O4'-C1'	-5.59	1.34	1.41
1	N	1062	U	C3'-C2'	5.59	1.59	1.52
1	N	1468	A	C3'-C2'	5.59	1.59	1.52
1	N	897	C	N1-C2	-5.59	1.34	1.40
1	N	1035	A	P-O5'	5.59	1.65	1.59
1	N	1245	C	N3-C4	5.59	1.37	1.33
1	N	1370	G	C4'-C3'	-5.59	1.47	1.52
1	N	331	G	C4'-O4'	5.59	1.52	1.45
1	N	1159	U	N1-C2	5.59	1.43	1.38
1	N	1509	C	N1-C6	5.59	1.40	1.37
1	N	123	U	P-O5'	-5.58	1.54	1.59
1	N	432	A	P-O5'	-5.58	1.54	1.59
1	N	338	A	N9-C4	-5.58	1.34	1.37
1	N	442	G	C5-C4	5.58	1.42	1.38
1	N	491	G	C5-C6	-5.58	1.36	1.42
1	N	927	G	C4'-C3'	-5.58	1.47	1.52
1	N	997	U	O4'-C1'	-5.58	1.34	1.41
1	N	193	C	O4'-C1'	5.58	1.49	1.41
1	N	857	C	O3'-P	-5.58	1.54	1.61
1	N	1269	A	C4'-C3'	-5.58	1.47	1.52
1	N	74	A	O3'-P	-5.58	1.54	1.61
1	N	1377	A	O3'-P	-5.58	1.54	1.61
1	N	1383	C	C3'-C2'	-5.58	1.46	1.52
1	N	772	U	N1-C2	-5.58	1.33	1.38
1	N	1150	A	N9-C4	5.58	1.41	1.37
1	N	389	A	P-O5'	5.58	1.65	1.59
1	N	600	A	N3-C4	5.58	1.38	1.34
1	N	609	A	N9-C4	5.58	1.41	1.37
1	N	784	A	N3-C4	-5.58	1.31	1.34
1	N	828	U	O3'-P	5.58	1.67	1.61
1	N	874	G	N9-C8	5.58	1.41	1.37
1	N	1213	A	O3'-P	-5.58	1.54	1.61
1	N	1263	C	O4'-C1'	5.58	1.48	1.41
1	N	1330	U	C2-N3	-5.58	1.33	1.37
1	N	686	U	C4'-C3'	5.57	1.59	1.53
1	N	861	G	C4'-O4'	5.57	1.52	1.45
1	N	954	G	C2-N3	5.57	1.37	1.32
1	N	1127	G	C2'-C1'	-5.57	1.47	1.53
1	N	1294	G	C8-N7	5.57	1.34	1.30
1	N	1385	G	N3-C4	5.57	1.39	1.35
1	N	1510	C	C3'-C2'	-5.57	1.46	1.52
1	N	1531	A	N9-C4	5.57	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	860	A	C4'-C3'	5.57	1.59	1.53
1	N	93	U	C1'-N1	5.57	1.57	1.48
1	N	739	C	C4'-O4'	5.57	1.52	1.45
1	N	814	A	C6-N6	5.57	1.38	1.33
1	N	1081	A	C4'-O4'	5.57	1.52	1.45
1	N	403	C	C2'-C1'	-5.57	1.47	1.53
1	N	1258	G	N7-C5	-5.57	1.35	1.39
1	N	63	C	C4'-C3'	-5.57	1.47	1.52
1	N	264	C	O3'-P	-5.57	1.54	1.61
1	N	1482	G	C2-N3	5.57	1.37	1.32
1	N	36	C	C2-N3	-5.57	1.31	1.35
1	N	339	C	C4'-C3'	5.57	1.59	1.53
1	N	921	U	C2'-C1'	-5.57	1.47	1.53
1	N	1002	G	C2'-O2'	5.57	1.48	1.41
1	N	1172	C	C2-N3	5.57	1.40	1.35
1	N	1512	U	N3-C4	5.56	1.43	1.38
1	N	145	G	N9-C8	5.56	1.41	1.37
1	N	1431	A	N9-C4	5.56	1.41	1.37
1	N	81	A	N1-C2	5.56	1.39	1.34
1	N	133	U	O3'-P	-5.56	1.54	1.61
1	N	139	A	C5-C6	-5.56	1.36	1.41
1	N	242	G	N9-C4	-5.56	1.33	1.38
1	N	1005	A	C6-N6	5.56	1.38	1.33
1	N	1314	C	C3'-O3'	5.56	1.50	1.42
1	N	234	C	C5-C6	-5.56	1.29	1.34
1	N	676	A	N3-C4	5.56	1.38	1.34
1	N	718	A	N7-C5	-5.56	1.35	1.39
1	N	417	G	N9-C8	5.56	1.41	1.37
1	N	453	G	N1-C2	5.56	1.42	1.37
1	N	754	C	C3'-C2'	5.56	1.59	1.52
1	N	804	U	C2'-O2'	5.56	1.48	1.41
1	N	1036	A	C8-N7	5.56	1.35	1.31
1	N	1059	C	N1-C6	5.56	1.40	1.37
1	N	1124	G	C3'-O3'	-5.56	1.34	1.42
1	N	1162	C	C5-C6	5.56	1.38	1.34
1	N	1452	C	N3-C4	5.56	1.37	1.33
1	N	535	A	C6-N1	5.56	1.39	1.35
1	N	219	U	O4'-C1'	-5.55	1.34	1.41
1	N	880	C	C4'-O4'	5.55	1.52	1.45
1	N	1085	U	C3'-C2'	5.55	1.59	1.52
1	N	177	G	C3'-O3'	5.55	1.50	1.42
1	N	399	G	C8-N7	-5.55	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	934	C	C2-N3	5.55	1.40	1.35
1	N	191	G	C2-N3	5.55	1.37	1.32
1	N	293	G	N1-C2	5.55	1.42	1.37
1	N	506	G	O4'-C1'	5.55	1.48	1.41
1	N	705	G	C5-C6	-5.55	1.36	1.42
1	N	1081	A	C8-N7	-5.55	1.27	1.31
1	N	1127	G	N9-C8	5.55	1.41	1.37
1	N	1173	U	C5-C6	5.55	1.39	1.34
1	N	132	C	C2'-C1'	-5.55	1.47	1.53
1	N	918	A	N9-C8	5.55	1.42	1.37
1	N	189	A	C4'-C3'	5.55	1.59	1.53
1	N	224	U	C2-N3	5.55	1.41	1.37
1	N	301	G	N9-C8	5.55	1.41	1.37
1	N	314	C	C1'-N1	5.55	1.57	1.48
1	N	857	C	C4'-C3'	-5.55	1.47	1.52
1	N	1243	C	O4'-C1'	5.55	1.48	1.41
1	N	1295	U	C1'-N1	5.55	1.57	1.48
1	N	1496	C	C4-C5	5.55	1.47	1.43
1	N	378	G	N1-C2	5.54	1.42	1.37
1	N	38	G	C3'-C2'	-5.54	1.46	1.52
1	N	775	G	P-O5'	-5.54	1.54	1.59
1	N	993	G	O3'-P	-5.54	1.54	1.61
1	N	1041	G	N9-C8	-5.54	1.33	1.37
1	N	1440	U	C2-N3	5.54	1.41	1.37
1	N	98	A	P-O5'	-5.54	1.54	1.59
1	N	170	U	C2-N3	5.54	1.41	1.37
1	N	318	G	O3'-P	-5.54	1.54	1.61
1	N	1091	U	O3'-P	-5.54	1.54	1.61
1	N	1468	A	C6-N6	5.54	1.38	1.33
1	N	350	G	C6-N1	5.54	1.43	1.39
1	N	1105	A	N7-C5	-5.54	1.35	1.39
1	N	1328	C	N1-C6	-5.54	1.33	1.37
1	N	1521	C	C5'-C4'	5.54	1.57	1.51
1	N	346	G	P-O5'	-5.54	1.54	1.59
1	N	789	U	C4'-C3'	5.54	1.59	1.53
1	N	105	G	N9-C8	5.54	1.41	1.37
1	N	1321	U	C4'-O4'	-5.54	1.38	1.45
1	N	44	A	N1-C2	5.53	1.39	1.34
1	N	140	U	N3-C4	5.53	1.43	1.38
1	N	501	C	P-O5'	5.53	1.65	1.59
1	N	525	C	C2-N3	-5.53	1.31	1.35
1	N	798	U	C2-N3	5.53	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1462	C	N1-C6	5.53	1.40	1.37
1	N	919	A	C5'-C4'	5.53	1.57	1.51
1	N	223	A	C5-C6	-5.53	1.36	1.41
1	N	264	C	O4'-C1'	5.53	1.48	1.41
1	N	330	C	C4-C5	-5.53	1.38	1.43
1	N	484	G	C5'-C4'	5.53	1.57	1.51
1	N	704	A	C6-N6	5.53	1.38	1.33
1	N	946	A	C4'-C3'	-5.53	1.47	1.52
1	N	1173	U	N1-C6	-5.53	1.32	1.38
1	N	67	C	N3-C4	5.53	1.37	1.33
1	N	456	A	N3-C4	-5.53	1.31	1.34
1	N	1176	A	N9-C8	5.53	1.42	1.37
1	N	338	A	C3'-O3'	-5.52	1.34	1.42
1	N	648	A	P-O5'	-5.52	1.54	1.59
1	N	920	U	O4'-C1'	-5.52	1.34	1.41
1	N	1164	G	C2-N3	5.52	1.37	1.32
1	N	1422	G	N9-C8	-5.52	1.33	1.37
1	N	222	C	C2'-C1'	-5.52	1.47	1.53
1	N	662	U	C3'-C2'	-5.52	1.46	1.52
1	N	853	C	C4-C5	5.52	1.47	1.43
1	N	1288	A	C3'-O3'	5.52	1.49	1.42
1	N	841	C	C3'-C2'	-5.52	1.46	1.52
1	N	1041	G	C6-N1	-5.52	1.35	1.39
1	N	1053	G	C3'-C2'	5.52	1.59	1.52
1	N	1519	A	N1-C2	-5.52	1.29	1.34
1	N	28	A	P-O5'	-5.52	1.54	1.59
1	N	349	A	C8-N7	-5.52	1.27	1.31
1	N	399	G	C6-N1	5.52	1.43	1.39
1	N	403	C	C2-N3	-5.52	1.31	1.35
1	N	525	C	C4-N4	5.52	1.39	1.33
1	N	683	G	C5'-C4'	5.52	1.57	1.51
1	N	921	U	N1-C6	5.52	1.43	1.38
1	N	944	G	N9-C4	-5.52	1.33	1.38
1	N	988	G	C3'-O3'	5.52	1.49	1.42
1	N	22	G	C2-N3	5.52	1.37	1.32
1	N	1379	G	C4'-C3'	5.52	1.59	1.53
1	N	1079	G	C2-N3	5.51	1.37	1.32
1	N	1227	A	C6-N1	5.51	1.39	1.35
1	N	453	G	C4'-C3'	5.51	1.59	1.53
1	N	986	U	O3'-P	-5.51	1.54	1.61
1	N	1155	A	N9-C8	-5.51	1.33	1.37
1	N	1168	U	C5-C6	5.51	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	54	C	C1'-N1	5.51	1.57	1.48
1	N	607	A	N3-C4	5.51	1.38	1.34
1	N	1483	A	N9-C8	-5.51	1.33	1.37
1	N	1520	C	C1'-N1	5.51	1.57	1.48
1	N	675	A	C6-N1	5.50	1.39	1.35
1	N	1017	U	N3-C4	5.50	1.43	1.38
1	N	14	U	C5'-C4'	5.50	1.57	1.51
1	N	63	C	P-O5'	-5.50	1.54	1.59
1	N	111	G	N3-C4	-5.50	1.31	1.35
1	N	688	G	N7-C5	-5.50	1.35	1.39
1	N	983	A	C6-N6	5.50	1.38	1.33
1	N	1213	A	C6-N6	5.50	1.38	1.33
1	N	217	C	C5'-C4'	5.50	1.57	1.51
1	N	299	G	C3'-O3'	5.50	1.49	1.42
1	N	1018	G	N1-C2	5.50	1.42	1.37
1	N	1339	A	C2-N3	5.50	1.38	1.33
1	N	504	C	N1-C6	5.50	1.40	1.37
1	N	806	C	N3-C4	5.50	1.37	1.33
1	N	509	A	C6-N6	5.50	1.38	1.33
1	N	522	C	C2-O2	5.50	1.29	1.24
1	N	787	A	C5-C6	-5.50	1.36	1.41
1	N	1088	G	P-O5'	-5.50	1.54	1.59
1	N	1214	C	C2'-C1'	-5.50	1.47	1.53
1	N	253	A	N9-C8	-5.49	1.33	1.37
1	N	1131	G	C6-N1	5.49	1.43	1.39
1	N	973	G	C5-C6	-5.49	1.36	1.42
1	N	244	U	C4'-C3'	5.49	1.59	1.53
1	N	340	U	C3'-C2'	-5.49	1.46	1.52
1	N	518	C	C2'-O2'	-5.49	1.34	1.41
1	N	1242	G	C5-C4	-5.49	1.34	1.38
1	N	1483	A	C2'-C1'	-5.49	1.47	1.53
1	N	25	C	P-O5'	5.49	1.65	1.59
1	N	756	C	P-O5'	-5.49	1.54	1.59
1	N	827	U	C1'-N1	5.49	1.56	1.48
1	N	917	G	C2-N2	5.49	1.40	1.34
1	N	963	G	C5-C4	5.49	1.42	1.38
1	N	1247	U	C2-O2	5.49	1.27	1.22
1	N	1446	A	C4'-C3'	5.49	1.59	1.53
1	N	252	U	C1'-N1	5.49	1.56	1.48
1	N	284	C	C4-N4	5.49	1.38	1.33
1	N	1258	G	C5'-C4'	5.49	1.57	1.51
1	N	62	U	C5-C6	5.48	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	369	G	C2-N2	5.48	1.40	1.34
1	N	419	C	C2-N3	5.48	1.40	1.35
1	N	425	G	C1'-N9	5.48	1.56	1.48
1	N	829	G	C5-C4	5.48	1.42	1.38
1	N	1062	U	O3'-P	-5.48	1.54	1.61
1	N	9	G	C8-N7	5.48	1.34	1.30
1	N	454	G	C5-C6	-5.48	1.36	1.42
1	N	691	G	C4'-C3'	5.48	1.59	1.53
1	N	698	G	C8-N7	-5.48	1.27	1.30
1	N	1265	C	N1-C2	-5.48	1.34	1.40
1	N	1392	G	C5-C6	-5.48	1.36	1.42
1	N	9	G	C5'-C4'	5.48	1.57	1.51
1	N	286	C	P-O5'	5.48	1.65	1.59
1	N	766	A	O5'-C5'	-5.48	1.34	1.42
1	N	1189	U	O3'-P	-5.48	1.54	1.61
1	N	1203	C	C4'-C3'	-5.48	1.47	1.52
1	N	609	A	P-O5'	-5.48	1.54	1.59
1	N	698	G	C6-N1	5.48	1.43	1.39
1	N	1049	U	N1-C2	5.48	1.43	1.38
1	N	609	A	C1'-N9	5.48	1.56	1.48
1	N	341	C	C4'-C3'	5.47	1.59	1.53
1	N	361	G	N3-C4	-5.47	1.31	1.35
1	N	836	G	O3'-P	-5.47	1.54	1.61
1	N	1050	G	C2-N2	5.47	1.40	1.34
1	N	1306	A	C5-C4	5.47	1.42	1.38
1	N	1343	G	C3'-O3'	5.47	1.49	1.42
1	N	104	G	P-O5'	-5.47	1.54	1.59
1	N	195	A	C5-C6	5.47	1.46	1.41
1	N	228	A	C3'-C2'	-5.47	1.46	1.52
1	N	1414	U	C3'-C2'	-5.47	1.46	1.52
1	N	368	U	C4-C5	5.47	1.48	1.43
1	N	457	G	N9-C4	-5.47	1.33	1.38
1	N	789	U	P-O5'	-5.47	1.54	1.59
1	N	1432	G	C2'-C1'	-5.47	1.47	1.53
1	N	1480	A	N3-C4	5.47	1.38	1.34
1	N	266	G	C3'-C2'	-5.47	1.46	1.52
1	N	452	A	N9-C4	5.47	1.41	1.37
1	N	738	C	C4-N4	5.47	1.38	1.33
1	N	1148	U	N3-C4	5.47	1.43	1.38
1	N	1420	U	C2-N3	-5.47	1.33	1.37
1	N	147	G	C5'-C4'	5.47	1.57	1.51
1	N	497	G	C2-N2	5.47	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1127	G	C6-N1	5.47	1.43	1.39
1	N	88	U	N3-C4	5.46	1.43	1.38
1	N	498	A	N3-C4	-5.46	1.31	1.34
1	N	703	G	C1'-N9	-5.46	1.39	1.46
1	N	725	G	N9-C4	5.46	1.42	1.38
1	N	887	G	N9-C4	5.46	1.42	1.38
1	N	978	A	C5'-C4'	5.46	1.57	1.51
1	N	1379	G	C2-N2	5.46	1.40	1.34
1	N	1193	G	N7-C5	5.46	1.42	1.39
1	N	130	A	N3-C4	5.46	1.38	1.34
1	N	886	G	C5-C6	-5.46	1.36	1.42
1	N	133	U	C4-O4	-5.46	1.19	1.23
1	N	492	C	N3-C4	5.46	1.37	1.33
1	N	568	G	N3-C4	-5.46	1.31	1.35
1	N	722	G	C2'-C1'	-5.46	1.47	1.53
1	N	791	G	C4'-C3'	5.46	1.59	1.53
1	N	45	G	C4'-C3'	5.46	1.59	1.53
1	N	21	G	C5'-C4'	-5.46	1.44	1.51
1	N	540	G	N1-C2	5.46	1.42	1.37
1	N	731	G	N9-C8	-5.46	1.34	1.37
1	N	998	C	C4-N4	5.46	1.38	1.33
1	N	226	G	P-O5'	-5.45	1.54	1.59
1	N	374	A	C3'-C2'	5.45	1.58	1.52
1	N	576	C	C4'-O4'	-5.45	1.38	1.45
1	N	655	A	C2'-C1'	-5.45	1.47	1.53
1	N	810	C	C3'-C2'	-5.45	1.46	1.52
1	N	847	G	N3-C4	-5.45	1.31	1.35
1	N	1106	G	C5'-C4'	5.45	1.57	1.51
1	N	1121	U	C2'-C1'	-5.45	1.47	1.53
1	N	1256	A	O3'-P	-5.45	1.54	1.61
1	N	364	A	C3'-O3'	5.45	1.49	1.42
1	N	716	A	N9-C4	-5.45	1.34	1.37
1	N	718	A	N9-C4	5.45	1.41	1.37
1	N	738	C	C4-C5	-5.45	1.38	1.43
1	N	1157	A	N9-C4	-5.45	1.34	1.37
1	N	404	G	C2'-C1'	-5.45	1.47	1.53
1	N	1090	U	P-O5'	-5.45	1.54	1.59
1	N	1108	G	C6-N1	5.45	1.43	1.39
1	N	1506	U	C2-N3	5.45	1.41	1.37
1	N	339	C	C5'-C4'	5.45	1.57	1.51
1	N	690	G	C2'-C1'	-5.45	1.47	1.53
1	N	90	C	P-O5'	-5.45	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	203	G	N9-C8	5.45	1.41	1.37
1	N	997	U	N3-C4	5.45	1.43	1.38
1	N	1272	G	N7-C5	5.45	1.42	1.39
1	N	1450	U	C4-O4	5.45	1.28	1.23
1	N	428	G	C2-N3	5.44	1.37	1.32
1	N	488	C	O4'-C1'	5.44	1.48	1.41
1	N	1097	C	C4'-O4'	5.44	1.52	1.45
1	N	299	G	C2-N3	5.44	1.37	1.32
1	N	378	G	C5'-C4'	5.44	1.57	1.51
1	N	635	A	C6-N6	5.44	1.38	1.33
1	N	826	C	C5-C6	-5.44	1.29	1.34
1	N	1299	A	C4'-C3'	5.44	1.59	1.53
1	N	52	C	C4-N4	-5.44	1.29	1.33
1	N	792	A	N7-C5	-5.44	1.35	1.39
1	N	1171	A	C5-C4	5.44	1.42	1.38
1	N	1391	U	C2-O2	5.44	1.27	1.22
1	N	1468	A	C8-N7	5.44	1.35	1.31
1	N	201	G	N7-C5	-5.44	1.35	1.39
1	N	376	G	C2-N2	5.44	1.40	1.34
1	N	385	C	N3-C4	5.44	1.37	1.33
1	N	579	A	C2-N3	-5.44	1.28	1.33
1	N	320	A	N3-C4	5.44	1.38	1.34
1	N	412	A	C5'-C4'	5.44	1.57	1.51
1	N	1526	G	C6-N1	5.44	1.43	1.39
1	N	22	G	N9-C8	5.43	1.41	1.37
1	N	145	G	C6-O6	-5.43	1.19	1.24
1	N	290	C	O4'-C1'	5.43	1.48	1.41
1	N	818	G	C4'-C3'	-5.43	1.47	1.52
1	N	888	G	C6-N1	5.43	1.43	1.39
1	N	1419	G	C5-C4	5.43	1.42	1.38
1	N	1476	A	C6-N6	5.43	1.38	1.33
1	N	563	A	C2-N3	-5.43	1.28	1.33
1	N	805	C	C2'-C1'	-5.43	1.47	1.53
1	N	840	C	C4-N4	5.43	1.38	1.33
1	N	930	C	C5'-C4'	5.43	1.57	1.51
1	N	1298	U	C5'-C4'	5.43	1.57	1.51
1	N	583	A	O3'-P	-5.43	1.54	1.61
1	N	458	U	C2-O2	5.43	1.27	1.22
1	N	742	G	C5'-C4'	5.43	1.57	1.51
1	N	895	G	C5-C4	-5.43	1.34	1.38
1	N	1240	U	C4'-C3'	-5.43	1.47	1.52
1	N	1309	G	C2-N2	5.43	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1410	A	C3'-O3'	5.43	1.49	1.42
1	N	1014	A	N7-C5	5.43	1.42	1.39
1	N	1467	C	C2'-O2'	-5.43	1.34	1.41
1	N	1435	G	N1-C2	5.43	1.42	1.37
1	N	267	C	C4'-C3'	5.42	1.59	1.53
1	N	727	G	O4'-C1'	-5.42	1.34	1.41
1	N	1169	A	C6-N6	5.42	1.38	1.33
1	N	1337	G	P-O5'	-5.42	1.54	1.59
1	N	486	U	C3'-O3'	5.42	1.49	1.42
1	N	1029	U	C2-N3	5.42	1.41	1.37
1	N	331	G	N7-C5	-5.42	1.35	1.39
1	N	1088	G	N9-C8	5.42	1.41	1.37
1	N	1187	G	C5-C6	-5.42	1.36	1.42
1	N	404	G	C2-N3	5.42	1.37	1.32
1	N	701	U	P-O5'	-5.42	1.54	1.59
1	N	901	A	C5-C4	5.42	1.42	1.38
1	N	946	A	C1'-N9	-5.42	1.39	1.46
1	N	1118	U	O3'-P	5.42	1.67	1.61
1	N	1295	U	C5'-C4'	5.42	1.57	1.51
1	N	409	U	C4-C5	5.42	1.48	1.43
1	N	843	U	C5'-C4'	5.42	1.57	1.51
1	N	1106	G	N7-C5	-5.42	1.35	1.39
1	N	1143	G	C2-N2	5.42	1.40	1.34
1	N	70	U	N1-C2	-5.42	1.33	1.38
1	N	155	A	N9-C8	-5.42	1.33	1.37
1	N	180	U	P-O5'	-5.42	1.54	1.59
1	N	302	G	C2-N3	5.42	1.37	1.32
1	N	364	A	C3'-C2'	5.42	1.58	1.52
1	N	442	G	C4'-C3'	5.42	1.59	1.53
1	N	1365	G	C5-C4	5.42	1.42	1.38
1	N	492	C	C4'-C3'	-5.42	1.47	1.52
1	N	152	A	O3'-P	-5.41	1.54	1.61
1	N	240	G	C5-C4	5.41	1.42	1.38
1	N	538	G	P-O5'	-5.41	1.54	1.59
1	N	1288	A	C4'-C3'	5.41	1.59	1.53
1	N	334	C	C1'-N1	5.41	1.56	1.48
1	N	271	C	N1-C2	-5.41	1.34	1.40
1	N	534	U	C4-O4	5.41	1.27	1.23
1	N	714	G	N1-C2	5.41	1.42	1.37
1	N	1397	C	N1-C6	-5.41	1.33	1.37
1	N	541	G	C6-O6	5.41	1.29	1.24
1	N	1364	U	C4'-O4'	5.41	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1468	A	C4'-C3'	-5.41	1.47	1.52
1	N	80	A	N3-C4	5.41	1.38	1.34
1	N	87	C	C2'-C1'	-5.41	1.47	1.53
1	N	231	U	C2-N3	5.41	1.41	1.37
1	N	508	U	C4'-C3'	-5.41	1.47	1.52
1	N	1254	A	N3-C4	-5.41	1.31	1.34
1	N	104	G	C5-C6	-5.40	1.36	1.42
1	N	330	C	C5-C6	5.40	1.38	1.34
1	N	1488	G	N1-C2	5.40	1.42	1.37
1	N	260	G	P-O5'	-5.40	1.54	1.59
1	N	711	G	O4'-C1'	5.40	1.48	1.41
1	N	1299	A	C5-C4	5.40	1.42	1.38
1	N	75	G	C6-N1	-5.40	1.35	1.39
1	N	602	A	N3-C4	5.40	1.38	1.34
1	N	1309	G	C2'-C1'	-5.40	1.47	1.53
1	N	1227	A	N7-C5	-5.40	1.36	1.39
1	N	41	G	C4'-C3'	5.40	1.59	1.53
1	N	50	A	N1-C2	5.40	1.39	1.34
1	N	1352	C	C5'-C4'	5.40	1.57	1.51
1	N	55	A	C5'-C4'	5.40	1.57	1.51
1	N	788	U	C5-C6	5.40	1.39	1.34
1	N	1129	C	N1-C6	5.40	1.40	1.37
1	N	1155	A	C5-C4	-5.40	1.34	1.38
1	N	1256	A	C2'-C1'	-5.40	1.47	1.53
1	N	1495	U	N3-C4	5.40	1.43	1.38
1	N	123	U	C4-C5	-5.39	1.38	1.43
1	N	202	G	C5-C4	5.39	1.42	1.38
1	N	562	U	C2-N3	5.39	1.41	1.37
1	N	954	G	P-O5'	-5.39	1.54	1.59
1	N	1164	G	N9-C4	-5.39	1.33	1.38
1	N	1341	U	C3'-C2'	5.39	1.58	1.52
1	N	306	A	C6-N1	-5.39	1.31	1.35
1	N	332	G	C5'-C4'	5.39	1.57	1.51
1	N	564	C	C4-N4	5.39	1.38	1.33
1	N	1158	C	C5-C6	-5.39	1.30	1.34
1	N	1375	A	N1-C2	-5.39	1.29	1.34
1	N	264	C	N1-C6	5.39	1.40	1.37
1	N	623	C	C4'-O4'	5.39	1.52	1.45
1	N	984	C	N1-C2	-5.39	1.34	1.40
1	N	1299	A	C8-N7	-5.39	1.27	1.31
1	N	1413	A	C6-N6	5.39	1.38	1.33
1	N	63	C	C2'-C1'	-5.39	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	766	A	C6-N1	5.39	1.39	1.35
1	N	1222	G	N9-C8	-5.39	1.34	1.37
1	N	1315	U	C4-C5	5.39	1.48	1.43
1	N	98	A	C5'-C4'	5.39	1.57	1.51
1	N	190	A	C6-N6	5.39	1.38	1.33
1	N	356	A	C3'-C2'	-5.39	1.46	1.52
1	N	398	U	N1-C2	-5.39	1.33	1.38
1	N	421	U	N3-C4	-5.39	1.33	1.38
1	N	466	A	C6-N1	-5.39	1.31	1.35
1	N	803	G	O3'-P	-5.39	1.54	1.61
1	N	307	C	C2-N3	5.38	1.40	1.35
1	N	537	G	C2-N3	5.38	1.37	1.32
1	N	866	C	O3'-P	-5.38	1.54	1.61
1	N	1202	U	C5-C6	5.38	1.39	1.34
1	N	1507	A	N1-C2	5.38	1.39	1.34
1	N	69	G	N7-C5	-5.38	1.36	1.39
1	N	153	C	C4-N4	5.38	1.38	1.33
1	N	1121	U	N1-C6	5.38	1.42	1.38
1	N	1451	U	N1-C6	5.38	1.42	1.38
1	N	114	U	P-O5'	-5.38	1.54	1.59
1	N	811	C	P-O5'	-5.38	1.54	1.59
1	N	1315	U	C4'-C3'	5.38	1.59	1.53
1	N	1401	G	C4'-O4'	5.38	1.52	1.45
1	N	721	G	C8-N7	5.38	1.34	1.30
1	N	909	A	C5-C4	5.38	1.42	1.38
1	N	299	G	O3'-P	-5.38	1.54	1.61
1	N	372	C	C4-N4	5.38	1.38	1.33
1	N	375	U	C4-O4	5.38	1.27	1.23
1	N	1251	A	P-O5'	-5.38	1.54	1.59
1	N	1270	G	C8-N7	-5.38	1.27	1.30
1	N	1497	G	C2'-C1'	-5.38	1.47	1.53
1	N	962	C	C4-N4	5.38	1.38	1.33
1	N	152	A	N7-C5	-5.37	1.36	1.39
1	N	241	G	N7-C5	-5.37	1.36	1.39
1	N	325	A	N3-C4	-5.37	1.31	1.34
1	N	1446	A	O4'-C1'	5.37	1.48	1.41
1	N	579	A	C5-C4	-5.37	1.34	1.38
1	N	626	G	N9-C8	5.37	1.41	1.37
1	N	1095	U	N1-C2	-5.37	1.33	1.38
1	N	725	G	O3'-P	-5.37	1.54	1.61
1	N	748	G	C4'-C3'	5.37	1.59	1.53
1	N	433	G	C5-C6	-5.37	1.36	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1407	C	N1-C2	5.37	1.45	1.40
1	N	77	A	N9-C4	-5.37	1.34	1.37
1	N	546	A	C6-N6	5.37	1.38	1.33
1	N	1200	C	P-O5'	-5.37	1.54	1.59
1	N	1316	G	C5-C6	-5.37	1.36	1.42
1	N	207	C	P-O5'	5.37	1.65	1.59
1	N	399	G	O3'-P	-5.37	1.54	1.61
1	N	500	G	O3'-P	-5.37	1.54	1.61
1	N	643	C	O3'-P	-5.37	1.54	1.61
1	N	910	C	C4-C5	5.37	1.47	1.43
1	N	994	A	C4'-C3'	-5.37	1.47	1.52
1	N	1104	G	C5-C4	5.37	1.42	1.38
1	N	1281	C	C2-N3	-5.37	1.31	1.35
1	N	1456	A	O3'-P	-5.37	1.54	1.61
1	N	518	C	C4'-C3'	5.36	1.59	1.53
1	N	569	C	P-O5'	-5.36	1.54	1.59
1	N	893	C	C4-C5	5.36	1.47	1.43
1	N	1502	A	N9-C4	5.36	1.41	1.37
1	N	225	C	P-O5'	-5.36	1.54	1.59
1	N	359	G	C4'-C3'	-5.36	1.47	1.52
1	N	474	G	C5-C4	5.36	1.42	1.38
1	N	15	G	C2-N3	5.36	1.37	1.32
1	N	181	A	N7-C5	-5.36	1.36	1.39
1	N	198	G	N9-C8	5.36	1.41	1.37
1	N	491	G	N9-C8	-5.36	1.34	1.37
1	N	985	C	C2'-C1'	-5.36	1.47	1.53
1	N	1071	C	C3'-O3'	-5.36	1.34	1.42
1	N	167	A	C5'-C4'	5.36	1.57	1.51
1	N	491	G	N3-C4	-5.36	1.31	1.35
1	N	578	C	C5-C6	5.36	1.38	1.34
1	N	1384	C	P-O5'	-5.36	1.54	1.59
1	N	476	U	O3'-P	-5.36	1.54	1.61
1	N	558	G	C6-N1	5.36	1.43	1.39
1	N	611	C	C2'-C1'	-5.36	1.47	1.53
1	N	730	G	C6-N1	5.36	1.43	1.39
1	N	1160	G	C5'-C4'	5.36	1.57	1.51
1	N	626	G	N1-C2	5.36	1.42	1.37
1	N	1255	G	N7-C5	5.36	1.42	1.39
1	N	1286	U	C4-O4	5.36	1.27	1.23
1	N	1383	C	C4-N4	5.36	1.38	1.33
1	N	798	U	C4-O4	5.35	1.27	1.23
1	N	1064	G	C2-N3	5.35	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	282	A	N7-C5	-5.35	1.36	1.39
1	N	413	G	C2'-O2'	-5.35	1.34	1.41
1	N	460	A	C3'-C2'	5.35	1.58	1.52
1	N	934	C	C4-N4	5.35	1.38	1.33
1	N	597	G	C3'-C2'	5.35	1.58	1.52
1	N	757	U	C4-O4	5.35	1.27	1.23
1	N	1409	C	N1-C6	5.35	1.40	1.37
1	N	1325	C	N1-C6	5.35	1.40	1.37
1	N	438	U	N3-C4	5.35	1.43	1.38
1	N	1223	C	C5-C6	-5.35	1.30	1.34
1	N	459	A	C5-C6	-5.34	1.36	1.41
1	N	463	U	O3'-P	-5.34	1.54	1.61
1	N	884	U	C2-N3	5.34	1.41	1.37
1	N	75	G	C2-N2	5.34	1.39	1.34
1	N	334	C	C2'-C1'	-5.34	1.47	1.53
1	N	450	G	O3'-P	-5.34	1.54	1.61
1	N	510	A	C2'-C1'	-5.34	1.47	1.53
1	N	536	C	O3'-P	-5.34	1.54	1.61
1	N	274	A	O3'-P	-5.34	1.54	1.61
1	N	966	G	C2-N3	5.34	1.37	1.32
1	N	1008	U	N3-C4	5.34	1.43	1.38
1	N	1193	G	C6-N1	5.34	1.43	1.39
1	N	1518	A	O3'-P	-5.34	1.54	1.61
1	N	382	A	C4'-C3'	5.34	1.59	1.53
1	N	1489	G	C1'-N9	-5.34	1.39	1.46
1	N	941	G	C4'-C3'	5.34	1.59	1.53
1	N	1132	C	C3'-C2'	-5.34	1.46	1.52
1	N	503	C	C4-C5	5.33	1.47	1.43
1	N	663	A	N9-C4	5.33	1.41	1.37
1	N	878	A	P-O5'	-5.33	1.54	1.59
1	N	914	A	O4'-C1'	-5.33	1.34	1.41
1	N	979	C	N1-C2	-5.33	1.34	1.40
1	N	165	G	N7-C5	-5.33	1.36	1.39
1	N	232	G	C2'-C1'	-5.33	1.47	1.53
1	N	342	C	C4-C5	-5.33	1.38	1.43
1	N	592	G	C2'-C1'	5.33	1.59	1.53
1	N	681	A	C5-C6	5.33	1.45	1.41
1	N	1327	C	C3'-O3'	5.33	1.49	1.42
1	N	1515	G	N7-C5	-5.33	1.36	1.39
1	N	1404	C	O4'-C1'	5.33	1.48	1.41
1	N	1462	C	C2-N3	5.33	1.40	1.35
1	N	102	G	C4'-C3'	5.33	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	555	U	C1'-N1	5.33	1.56	1.48
1	N	915	A	C5-C6	-5.33	1.36	1.41
1	N	1315	U	N1-C6	5.33	1.42	1.38
1	N	1340	A	C5-C4	5.33	1.42	1.38
1	N	1472	U	C4-O4	5.33	1.27	1.23
1	N	400	C	N3-C4	5.32	1.37	1.33
1	N	415	A	N9-C4	-5.32	1.34	1.37
1	N	590	U	C4-C5	5.32	1.48	1.43
1	N	894	G	N1-C2	5.32	1.42	1.37
1	N	989	U	C2'-C1'	5.32	1.59	1.53
1	N	1241	G	C5-C6	-5.32	1.37	1.42
1	N	216	U	C2'-C1'	-5.32	1.47	1.53
1	N	337	G	C2'-C1'	-5.32	1.47	1.53
1	N	475	C	C4'-O4'	5.32	1.52	1.45
1	N	628	G	P-O5'	-5.32	1.54	1.59
1	N	1155	A	C6-N6	5.32	1.38	1.33
1	N	40	C	N1-C2	5.32	1.45	1.40
1	N	413	G	C6-N1	5.32	1.43	1.39
1	N	722	G	C6-O6	-5.32	1.19	1.24
1	N	944	G	C3'-C2'	-5.32	1.46	1.52
1	N	1122	U	C3'-C2'	5.32	1.58	1.52
1	N	1256	A	C5'-C4'	5.32	1.57	1.51
1	N	253	A	C6-N6	5.32	1.38	1.33
1	N	829	G	C2-N2	5.32	1.39	1.34
1	N	954	G	C2'-C1'	-5.32	1.47	1.53
1	N	1259	C	C2-N3	5.32	1.40	1.35
1	N	55	A	O4'-C1'	-5.32	1.34	1.41
1	N	539	A	N9-C8	-5.32	1.33	1.37
1	N	1152	A	N9-C8	-5.32	1.33	1.37
1	N	335	C	C2'-C1'	-5.32	1.47	1.53
1	N	1302	C	C2'-O2'	5.32	1.48	1.41
1	N	178	C	C2-N3	5.31	1.40	1.35
1	N	227	G	C4'-C3'	-5.31	1.47	1.52
1	N	389	A	C6-N1	-5.31	1.31	1.35
1	N	661	G	C3'-C2'	-5.31	1.47	1.52
1	N	781	A	C5-C6	-5.31	1.36	1.41
1	N	1369	C	C1'-N1	5.31	1.56	1.48
1	N	2	A	C5'-C4'	5.31	1.57	1.51
1	N	235	C	C3'-C2'	5.31	1.58	1.52
1	N	341	C	C4-N4	5.31	1.38	1.33
1	N	622	A	C5-C4	5.31	1.42	1.38
1	N	1159	U	C2-O2	5.31	1.27	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	31	G	N3-C4	5.31	1.39	1.35
1	N	238	A	C5'-C4'	5.31	1.57	1.51
1	N	438	U	C4-C5	5.31	1.48	1.43
1	N	611	C	N1-C6	5.31	1.40	1.37
1	N	1434	A	C6-N1	5.31	1.39	1.35
1	N	1496	C	N1-C6	5.31	1.40	1.37
1	N	292	G	N7-C5	-5.31	1.36	1.39
1	N	597	G	N3-C4	-5.31	1.31	1.35
1	N	929	G	P-O5'	-5.31	1.54	1.59
1	N	1120	C	N3-C4	5.31	1.37	1.33
1	N	1223	C	N3-C4	5.31	1.37	1.33
1	N	1359	C	O3'-P	-5.31	1.54	1.61
1	N	943	U	N1-C2	5.31	1.43	1.38
1	N	1157	A	N7-C5	-5.31	1.36	1.39
1	N	685	G	C5-C4	5.30	1.42	1.38
1	N	1147	C	N1-C2	5.30	1.45	1.40
1	N	245	U	N1-C6	-5.30	1.33	1.38
1	N	902	G	N1-C2	5.30	1.42	1.37
1	N	1265	C	C5'-C4'	5.30	1.57	1.51
1	N	1448	C	C4'-C3'	-5.30	1.47	1.52
1	N	127	G	C2-N2	-5.30	1.29	1.34
1	N	199	A	C5-C6	-5.30	1.36	1.41
1	N	372	C	C3'-O3'	5.30	1.49	1.42
1	N	845	A	O3'-P	-5.30	1.54	1.61
1	N	1410	A	O4'-C1'	5.30	1.48	1.41
1	N	1495	U	C5-C6	5.30	1.39	1.34
1	N	72	A	C6-N6	5.30	1.38	1.33
1	N	159	G	N1-C2	5.30	1.42	1.37
1	N	641	U	C1'-N1	5.30	1.56	1.48
1	N	886	G	N1-C2	5.30	1.42	1.37
1	N	937	A	C6-N6	5.30	1.38	1.33
1	N	1027	C	O4'-C1'	5.30	1.48	1.41
1	N	1058	G	C2-N3	5.30	1.36	1.32
1	N	1103	C	C5'-C4'	5.30	1.57	1.51
1	N	118	U	N1-C2	5.29	1.43	1.38
1	N	342	C	C4-N4	5.29	1.38	1.33
1	N	624	C	N1-C2	5.29	1.45	1.40
1	N	903	G	C4'-C3'	5.29	1.58	1.53
1	N	1319	A	C4'-C3'	5.29	1.58	1.53
1	N	1419	G	N9-C4	-5.29	1.33	1.38
1	N	23	C	C2'-C1'	5.29	1.59	1.53
1	N	46	G	C5-C4	-5.29	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	520	A	N9-C4	-5.29	1.34	1.37
1	N	586	C	C5'-C4'	5.29	1.57	1.51
1	N	681	A	C5-C4	-5.29	1.35	1.38
1	N	894	G	C4'-C3'	-5.29	1.47	1.52
1	N	946	A	C6-N6	5.29	1.38	1.33
1	N	1116	U	N1-C6	-5.29	1.33	1.38
1	N	263	A	C2'-C1'	-5.29	1.47	1.53
1	N	300	A	N3-C4	-5.29	1.31	1.34
1	N	309	A	C6-N1	5.29	1.39	1.35
1	N	830	G	C3'-O3'	5.29	1.49	1.42
1	N	1403	C	C4'-O4'	5.29	1.52	1.45
1	N	1058	G	C2'-C1'	-5.29	1.47	1.53
1	N	984	C	N3-C4	5.29	1.37	1.33
1	N	1056	U	N1-C6	5.29	1.42	1.38
1	N	1175	G	N3-C4	-5.29	1.31	1.35
1	N	1448	C	C2-O2	5.29	1.29	1.24
1	N	138	G	N9-C4	5.29	1.42	1.38
1	N	482	A	C2'-C1'	-5.29	1.47	1.53
1	N	719	C	P-O5'	-5.29	1.54	1.59
1	N	981	U	C2-O2	5.29	1.27	1.22
1	N	1146	A	O3'-P	-5.29	1.54	1.61
1	N	1231	G	C2'-C1'	-5.29	1.47	1.53
1	N	1326	U	C5'-C4'	5.29	1.57	1.51
1	N	1363	A	C5'-C4'	-5.29	1.45	1.51
1	N	1478	U	O3'-P	-5.29	1.54	1.61
1	N	221	C	P-O5'	-5.28	1.54	1.59
1	N	1191	A	C6-N1	-5.28	1.31	1.35
1	N	1211	U	C4-C5	5.28	1.48	1.43
1	N	657	U	N1-C6	5.28	1.42	1.38
1	N	331	G	P-O5'	-5.28	1.54	1.59
1	N	1370	G	C2'-C1'	-5.28	1.47	1.53
1	N	1431	A	O4'-C1'	-5.28	1.34	1.41
1	N	502	A	C5-C4	-5.28	1.35	1.38
1	N	783	C	C3'-C2'	-5.28	1.47	1.52
1	N	842	U	C5-C6	5.28	1.38	1.34
1	N	902	G	C1'-N9	5.28	1.56	1.48
1	N	1071	C	C5'-C4'	5.28	1.57	1.51
1	N	1461	G	N7-C5	-5.28	1.36	1.39
1	N	1465	A	N9-C8	-5.28	1.33	1.37
1	N	86	G	C2'-C1'	-5.28	1.47	1.53
1	N	206	C	C5-C6	-5.28	1.30	1.34
1	N	340	U	P-O5'	-5.28	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	366	A	C5'-C4'	5.28	1.57	1.51
1	N	852	G	P-O5'	5.28	1.65	1.59
1	N	1204	A	C8-N7	-5.28	1.27	1.31
1	N	1357	A	N3-C4	5.28	1.38	1.34
1	N	1529	G	C5'-C4'	5.28	1.57	1.51
1	N	1534	A	C3'-C2'	-5.28	1.47	1.52
1	N	1072	G	N1-C2	5.27	1.42	1.37
1	N	300	A	C6-N6	5.27	1.38	1.33
1	N	352	C	C2-N3	5.27	1.40	1.35
1	N	889	A	C5'-C4'	5.27	1.57	1.51
1	N	1242	G	N1-C2	5.27	1.42	1.37
1	N	1393	U	P-O5'	5.27	1.65	1.59
1	N	484	G	C5-C6	5.27	1.47	1.42
1	N	974	A	C3'-C2'	5.27	1.58	1.52
1	N	13	U	C5-C6	-5.27	1.29	1.34
1	N	337	G	N3-C4	5.27	1.39	1.35
1	N	504	C	P-O5'	-5.27	1.54	1.59
1	N	674	G	C2-N2	-5.27	1.29	1.34
1	N	78	A	C6-N1	-5.27	1.31	1.35
1	N	355	C	C4-N4	5.27	1.38	1.33
1	N	521	G	C6-N1	5.27	1.43	1.39
1	N	1384	C	O3'-P	-5.27	1.54	1.61
1	N	864	A	N3-C4	-5.27	1.31	1.34
1	N	1319	A	C2'-C1'	-5.27	1.47	1.53
1	N	608	A	C5-C4	5.26	1.42	1.38
1	N	1252	A	N9-C8	-5.26	1.33	1.37
1	N	514	C	C5'-C4'	5.26	1.57	1.51
1	N	934	C	O3'-P	-5.26	1.54	1.61
1	N	1154	G	N9-C8	5.26	1.41	1.37
1	N	155	A	N9-C4	5.26	1.41	1.37
1	N	249	U	C5-C6	-5.26	1.29	1.34
1	N	318	G	N1-C2	5.26	1.42	1.37
1	N	22	G	C8-N7	-5.26	1.27	1.30
1	N	702	A	C2-N3	5.26	1.38	1.33
1	N	1039	G	N3-C4	5.26	1.39	1.35
1	N	1312	G	C2'-C1'	-5.26	1.47	1.53
1	N	647	C	C5-C6	5.26	1.38	1.34
1	N	1000	A	C6-N6	5.26	1.38	1.33
1	N	1054	C	C2-O2	5.26	1.29	1.24
1	N	1359	C	N1-C6	-5.26	1.33	1.37
1	N	1385	G	C2-N2	5.26	1.39	1.34
1	N	164	G	O4'-C1'	5.25	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1086	U	C2'-C1'	-5.25	1.47	1.53
1	N	1285	A	O3'-P	-5.25	1.54	1.61
1	N	525	C	C4-C5	5.25	1.47	1.43
1	N	526	C	N1-C2	-5.25	1.34	1.40
1	N	1439	G	N3-C4	-5.25	1.31	1.35
1	N	581	G	N9-C4	-5.25	1.33	1.38
1	N	694	A	C8-N7	-5.25	1.27	1.31
1	N	901	A	N7-C5	-5.25	1.36	1.39
1	N	1251	A	C6-N1	5.25	1.39	1.35
1	N	212	G	C4'-C3'	-5.25	1.47	1.52
1	N	530	G	O3'-P	-5.25	1.54	1.61
1	N	193	C	C5'-C4'	5.25	1.57	1.51
1	N	1009	U	C2-N3	5.25	1.41	1.37
1	N	1308	U	P-O5'	-5.25	1.54	1.59
1	N	895	G	P-O5'	-5.25	1.54	1.59
1	N	920	U	C4'-C3'	-5.25	1.47	1.52
1	N	1371	G	O4'-C1'	5.25	1.48	1.41
1	N	1505	G	C3'-O3'	5.25	1.49	1.42
1	N	54	C	C2'-O2'	-5.24	1.34	1.41
1	N	807	A	C5-C4	5.24	1.42	1.38
1	N	947	G	C2'-O2'	-5.24	1.34	1.41
1	N	950	U	P-O5'	-5.24	1.54	1.59
1	N	1149	C	C2'-C1'	-5.24	1.47	1.53
1	N	1187	G	N7-C5	-5.24	1.36	1.39
1	N	1482	G	O4'-C1'	5.24	1.48	1.41
1	N	158	G	C2-N2	5.24	1.39	1.34
1	N	321	A	C6-N1	5.24	1.39	1.35
1	N	1101	A	C4'-C3'	-5.24	1.47	1.52
1	N	9	G	N9-C8	5.24	1.41	1.37
1	N	190	A	P-O5'	-5.24	1.54	1.59
1	N	986	U	N1-C2	5.24	1.43	1.38
1	N	1109	C	P-O5'	-5.24	1.54	1.59
1	N	1477	U	C4-C5	5.24	1.48	1.43
1	N	24	U	P-O5'	-5.24	1.54	1.59
1	N	566	G	C5'-C4'	5.24	1.57	1.51
1	N	981	U	C2'-C1'	-5.24	1.47	1.53
1	N	1413	A	O4'-C1'	-5.24	1.34	1.41
1	N	1477	U	C1'-N1	5.24	1.56	1.48
1	N	438	U	C3'-C2'	5.24	1.58	1.52
1	N	695	A	C2'-C1'	-5.24	1.47	1.53
1	N	1073	U	C1'-N1	5.24	1.56	1.48
1	N	1362	A	C8-N7	5.24	1.35	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	40	C	C5'-C4'	5.23	1.57	1.51
1	N	422	C	C5'-C4'	5.23	1.57	1.51
1	N	782	A	N9-C4	-5.23	1.34	1.37
1	N	903	G	N9-C8	-5.23	1.34	1.37
1	N	247	G	C5-C4	5.23	1.42	1.38
1	N	473	U	P-O5'	-5.23	1.54	1.59
1	N	737	C	C2-N3	5.23	1.40	1.35
1	N	1309	G	P-O5'	-5.23	1.54	1.59
1	N	1316	G	C2'-C1'	-5.23	1.47	1.53
1	N	1077	G	O3'-P	-5.23	1.54	1.61
1	N	661	G	C8-N7	5.23	1.34	1.30
1	N	863	U	C4'-O4'	5.23	1.52	1.45
1	N	913	A	C1'-N9	5.23	1.56	1.48
1	N	1327	C	C1'-N1	5.23	1.56	1.48
1	N	530	G	C5-C4	5.23	1.42	1.38
1	N	260	G	N1-C2	5.22	1.42	1.37
1	N	1058	G	P-O5'	-5.22	1.54	1.59
1	N	252	U	C4-O4	5.22	1.27	1.23
1	N	396	C	C2-N3	-5.22	1.31	1.35
1	N	473	U	C2'-C1'	-5.22	1.47	1.53
1	N	1022	A	N9-C4	-5.22	1.34	1.37
1	N	1042	A	N9-C4	-5.22	1.34	1.37
1	N	994	A	C6-N6	5.22	1.38	1.33
1	N	1408	A	C6-N6	5.22	1.38	1.33
1	N	239	U	C2'-C1'	-5.22	1.47	1.53
1	N	284	C	C3'-C2'	5.22	1.58	1.52
1	N	637	C	C2-O2	5.22	1.29	1.24
1	N	708	C	C4-N4	5.22	1.38	1.33
1	N	319	G	C6-N1	5.22	1.43	1.39
1	N	583	A	N9-C4	5.22	1.41	1.37
1	N	904	U	C1'-N1	5.22	1.56	1.48
1	N	702	A	O3'-P	-5.22	1.54	1.61
1	N	1041	G	O4'-C1'	5.22	1.48	1.41
1	N	1121	U	C4-C5	5.22	1.48	1.43
1	N	1434	A	C5-C6	-5.22	1.36	1.41
1	N	606	G	N1-C2	5.21	1.42	1.37
1	N	927	G	C5-C4	-5.21	1.34	1.38
1	N	1305	G	C6-N1	5.21	1.43	1.39
1	N	549	C	C4'-C3'	-5.21	1.47	1.52
1	N	1133	G	C3'-O3'	5.21	1.49	1.42
1	N	198	G	N7-C5	-5.21	1.36	1.39
1	N	388	G	N3-C4	-5.21	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	510	A	O3'-P	-5.21	1.54	1.61
1	N	581	G	C2'-C1'	-5.21	1.47	1.53
1	N	1093	A	C3'-C2'	5.21	1.58	1.52
1	N	1238	A	C4'-C3'	-5.21	1.47	1.52
1	N	1498	U	C4'-C3'	5.21	1.58	1.53
1	N	830	G	N7-C5	5.21	1.42	1.39
1	N	1135	U	C4-O4	5.21	1.27	1.23
1	N	283	U	C2-O2	5.21	1.27	1.22
1	N	448	A	C6-N6	5.21	1.38	1.33
1	N	593	U	N1-C6	5.21	1.42	1.38
1	N	1079	G	C5'-C4'	5.21	1.57	1.51
1	N	1157	A	O3'-P	-5.21	1.54	1.61
1	N	1190	G	N7-C5	-5.21	1.36	1.39
1	N	520	A	N1-C2	-5.21	1.29	1.34
1	N	1191	A	C5'-C4'	5.21	1.57	1.51
1	N	161	A	C3'-O3'	5.21	1.49	1.42
1	N	315	A	C5-C4	5.20	1.42	1.38
1	N	985	C	N1-C6	5.20	1.40	1.37
1	N	125	U	C2'-C1'	-5.20	1.47	1.53
1	N	977	A	N1-C2	5.20	1.39	1.34
1	N	1206	G	C5-C4	-5.20	1.34	1.38
1	N	57	G	C2'-C1'	-5.20	1.47	1.53
1	N	447	G	N3-C4	-5.20	1.31	1.35
1	N	540	G	C5'-C4'	5.20	1.57	1.51
1	N	818	G	C2-N2	5.20	1.39	1.34
1	N	1059	C	C4-N4	5.20	1.38	1.33
1	N	1245	C	C4'-C3'	5.20	1.58	1.53
1	N	1255	G	C5-C6	-5.20	1.37	1.42
1	N	1367	C	C2-O2	-5.20	1.19	1.24
1	N	163	C	C1'-N1	5.20	1.56	1.48
1	N	1251	A	C1'-N9	-5.20	1.39	1.46
1	N	1385	G	C5-C4	5.20	1.42	1.38
1	N	563	A	N7-C5	-5.20	1.36	1.39
1	N	862	C	C2'-C1'	-5.20	1.47	1.53
1	N	105	G	O4'-C1'	5.19	1.48	1.41
1	N	298	A	N3-C4	5.19	1.38	1.34
1	N	1108	G	C4'-O4'	-5.19	1.38	1.45
1	N	63	C	C4-N4	5.19	1.38	1.33
1	N	1234	C	C2-O2	5.19	1.29	1.24
1	N	1241	G	C5-C4	5.19	1.42	1.38
1	N	1324	A	C5-C4	5.19	1.42	1.38
1	N	79	G	C5-C4	-5.19	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	734	G	O3'-P	-5.19	1.54	1.61
1	N	989	U	C4'-O4'	5.19	1.52	1.45
1	N	1173	U	P-O5'	-5.19	1.54	1.59
1	N	1362	A	O5'-C5'	-5.19	1.34	1.42
1	N	475	C	C4'-C3'	5.19	1.58	1.53
1	N	1064	G	N1-C2	5.19	1.42	1.37
1	N	1251	A	N3-C4	-5.19	1.31	1.34
1	N	190	A	C5-C6	-5.19	1.36	1.41
1	N	447	G	C4'-O4'	5.19	1.52	1.45
1	N	169	C	C4-N4	5.18	1.38	1.33
1	N	184	G	C4'-O4'	5.18	1.52	1.45
1	N	202	G	C8-N7	5.18	1.34	1.30
1	N	843	U	C2-N3	5.18	1.41	1.37
1	N	948	C	N3-C4	5.18	1.37	1.33
1	N	1209	C	C5-C6	-5.18	1.30	1.34
1	N	1291	U	C2-N3	5.18	1.41	1.37
1	N	1476	A	C4'-C3'	5.18	1.58	1.53
1	N	97	G	C5-C6	-5.18	1.37	1.42
1	N	134	G	C6-N1	5.18	1.43	1.39
1	N	293	G	C5-C4	5.18	1.42	1.38
1	N	294	U	C5-C6	-5.18	1.29	1.34
1	N	1067	A	N3-C4	-5.18	1.31	1.34
1	N	1395	C	C2'-C1'	5.18	1.59	1.53
1	N	1221	G	C6-N1	5.18	1.43	1.39
1	N	687	A	P-O5'	-5.18	1.54	1.59
1	N	1163	A	C5-C4	5.18	1.42	1.38
1	N	1196	A	N9-C4	5.18	1.41	1.37
1	N	213	G	C2'-C1'	-5.18	1.47	1.53
1	N	760	G	C5'-C4'	5.18	1.57	1.51
1	N	895	G	C2-N2	-5.18	1.29	1.34
1	N	70	U	O3'-P	-5.18	1.54	1.61
1	N	513	C	C2-N3	5.18	1.39	1.35
1	N	554	A	C3'-C2'	5.18	1.58	1.52
1	N	735	C	N3-C4	5.18	1.37	1.33
1	N	744	C	C2'-C1'	-5.18	1.47	1.53
1	N	844	G	N1-C2	5.18	1.41	1.37
1	N	914	A	N3-C4	-5.18	1.31	1.34
1	N	1056	U	C2-N3	5.18	1.41	1.37
1	N	1334	G	C5'-C4'	5.18	1.57	1.51
1	N	1342	C	N3-C4	5.18	1.37	1.33
1	N	107	G	C2-N2	5.17	1.39	1.34
1	N	208	U	O3'-P	-5.17	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	209	U	N1-C2	5.17	1.43	1.38
1	N	1163	A	C3'-C2'	-5.17	1.47	1.52
1	N	1474	U	C1'-N1	5.17	1.56	1.48
1	N	122	G	C2-N3	5.17	1.36	1.32
1	N	737	C	C2'-C1'	-5.17	1.47	1.53
1	N	514	C	C3'-C2'	5.17	1.58	1.52
1	N	859	G	C2'-C1'	-5.17	1.47	1.53
1	N	869	G	C2'-C1'	-5.17	1.47	1.53
1	N	1111	A	C4'-C3'	5.17	1.58	1.53
1	N	1253	G	N9-C4	5.17	1.42	1.38
1	N	1449	C	N1-C6	5.17	1.40	1.37
1	N	864	A	N9-C4	-5.17	1.34	1.37
1	N	990	C	C2-O2	5.17	1.29	1.24
1	N	89	U	C4-C5	5.17	1.48	1.43
1	N	148	G	N1-C2	5.17	1.41	1.37
1	N	231	U	C5-C6	-5.17	1.29	1.34
1	N	268	U	C4-C5	-5.17	1.38	1.43
1	N	323	U	N3-C4	-5.17	1.33	1.38
1	N	686	U	P-O5'	5.17	1.65	1.59
1	N	1140	C	C5'-C4'	5.17	1.57	1.51
1	N	1172	C	N3-C4	5.17	1.37	1.33
1	N	415	A	P-O5'	-5.17	1.54	1.59
1	N	664	G	C6-N1	5.17	1.43	1.39
1	N	1002	G	N7-C5	-5.17	1.36	1.39
1	N	1068	G	N9-C4	-5.17	1.33	1.38
1	N	1351	U	O4'-C1'	-5.17	1.34	1.41
1	N	503	C	C3'-O3'	5.17	1.49	1.42
1	N	1221	G	C2-N3	5.17	1.36	1.32
1	N	1338	G	N9-C8	-5.17	1.34	1.37
1	N	1484	C	C4-C5	-5.17	1.38	1.43
1	N	1507	A	C5'-C4'	5.17	1.57	1.51
1	N	1531	A	C6-N1	5.17	1.39	1.35
1	N	694	A	C5-C6	5.16	1.45	1.41
1	N	997	U	C2'-C1'	-5.16	1.47	1.53
1	N	1369	C	C3'-C2'	5.16	1.58	1.52
1	N	158	G	C4'-C3'	5.16	1.58	1.53
1	N	519	C	O3'-P	-5.16	1.54	1.61
1	N	1250	A	N3-C4	-5.16	1.31	1.34
1	N	1444	U	P-O5'	-5.16	1.54	1.59
1	N	69	G	N9-C4	-5.16	1.33	1.38
1	N	804	U	C1'-N1	5.16	1.56	1.48
1	N	47	C	C2'-O2'	-5.16	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	606	G	P-O5'	-5.16	1.54	1.59
1	N	668	G	C8-N7	-5.16	1.27	1.30
1	N	687	A	C2'-C1'	-5.16	1.47	1.53
1	N	1487	G	O3'-P	-5.16	1.54	1.61
1	N	31	G	C5-C4	-5.16	1.34	1.38
1	N	373	A	C4'-O4'	-5.16	1.38	1.45
1	N	805	C	C3'-C2'	-5.16	1.47	1.52
1	N	189	A	C8-N7	-5.16	1.27	1.31
1	N	700	G	C2-N3	-5.16	1.28	1.32
1	N	1416	G	C2-N3	5.16	1.36	1.32
1	N	1436	U	C5'-C4'	5.16	1.57	1.51
1	N	1445	U	O4'-C1'	5.16	1.48	1.41
1	N	1106	G	N1-C2	5.15	1.41	1.37
1	N	1174	G	C2-N2	5.15	1.39	1.34
1	N	1215	G	N1-C2	5.15	1.41	1.37
1	N	35	G	P-O5'	-5.15	1.54	1.59
1	N	65	A	C2'-O2'	5.15	1.48	1.41
1	N	800	G	C6-N1	5.15	1.43	1.39
1	N	860	A	C6-N6	5.15	1.38	1.33
1	N	1036	A	C5'-C4'	5.15	1.57	1.51
1	N	1339	A	O3'-P	-5.15	1.54	1.61
1	N	1186	G	N9-C4	-5.15	1.33	1.38
1	N	1210	C	O3'-P	-5.15	1.54	1.61
1	N	48	C	C5'-C4'	5.15	1.57	1.51
1	N	532	A	C2'-C1'	-5.15	1.47	1.53
1	N	846	G	C6-O6	-5.14	1.19	1.24
1	N	1145	A	C6-N1	5.14	1.39	1.35
1	N	1504	G	C2'-C1'	-5.14	1.47	1.53
1	N	776	G	C4'-O4'	-5.14	1.38	1.45
1	N	601	G	N9-C8	5.14	1.41	1.37
1	N	874	G	C6-N1	5.14	1.43	1.39
1	N	1409	C	C2-O2	5.14	1.29	1.24
1	N	296	U	N1-C6	5.14	1.42	1.38
1	N	404	G	C3'-O3'	5.14	1.49	1.42
1	N	461	A	C1'-N9	5.14	1.56	1.48
1	N	469	C	C5'-C4'	5.14	1.57	1.51
1	N	1031	C	N1-C6	5.14	1.40	1.37
1	N	141	G	O4'-C1'	-5.14	1.34	1.41
1	N	336	A	C3'-O3'	5.14	1.49	1.42
1	N	337	G	C4'-O4'	-5.14	1.38	1.45
1	N	356	A	C2'-C1'	5.14	1.59	1.53
1	N	557	G	C1'-N9	-5.14	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	633	G	N9-C4	-5.14	1.33	1.38
1	N	745	G	C4'-C3'	-5.14	1.47	1.52
1	N	934	C	C4'-O4'	5.14	1.52	1.45
1	N	977	A	N9-C4	5.14	1.41	1.37
1	N	1049	U	C2'-C1'	-5.14	1.47	1.53
1	N	1049	U	C1'-N1	5.14	1.56	1.48
1	N	467	U	P-O5'	5.13	1.64	1.59
1	N	518	C	N3-C4	5.13	1.37	1.33
1	N	621	A	C2-N3	5.13	1.38	1.33
1	N	629	A	C1'-N9	-5.13	1.39	1.46
1	N	665	A	C4'-O4'	-5.13	1.38	1.45
1	N	821	G	N9-C4	-5.13	1.33	1.38
1	N	1025	U	C4'-C3'	-5.13	1.47	1.52
1	N	1082	A	C4'-C3'	5.13	1.58	1.53
1	N	1213	A	N9-C4	-5.13	1.34	1.37
1	N	530	G	N9-C8	-5.13	1.34	1.37
1	N	651	C	C4-N4	5.13	1.38	1.33
1	N	727	G	C2-N3	5.13	1.36	1.32
1	N	998	C	C5-C6	5.13	1.38	1.34
1	N	1127	G	C8-N7	5.13	1.34	1.30
1	N	1223	C	C1'-N1	5.13	1.56	1.48
1	N	227	G	C5'-C4'	5.13	1.57	1.51
1	N	357	G	C1'-N9	5.13	1.56	1.48
1	N	372	C	C4'-C3'	-5.13	1.47	1.52
1	N	519	C	N1-C6	5.13	1.40	1.37
1	N	845	A	C4'-C3'	5.13	1.58	1.53
1	N	1365	G	N1-C2	5.13	1.41	1.37
1	N	182	A	O4'-C1'	5.13	1.48	1.41
1	N	183	C	N3-C4	5.13	1.37	1.33
1	N	636	U	P-O5'	-5.13	1.54	1.59
1	N	692	U	N3-C4	5.13	1.43	1.38
1	N	695	A	N9-C8	5.13	1.41	1.37
1	N	790	A	N3-C4	-5.13	1.31	1.34
1	N	891	U	P-O5'	-5.13	1.54	1.59
1	N	1079	G	N1-C2	5.13	1.41	1.37
1	N	1437	A	C2-N3	5.13	1.38	1.33
1	N	531	U	N1-C2	5.12	1.43	1.38
1	N	1132	C	C4-N4	5.12	1.38	1.33
1	N	998	C	O3'-P	-5.12	1.55	1.61
1	N	1059	C	C4-C5	-5.12	1.38	1.43
1	N	1123	U	C2'-C1'	-5.12	1.47	1.53
1	N	1289	A	C3'-C2'	-5.12	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1444	U	C4'-C3'	-5.12	1.47	1.52
1	N	147	G	C4'-C3'	5.12	1.58	1.53
1	N	225	C	C5'-C4'	5.12	1.57	1.51
1	N	378	G	C2-N2	5.12	1.39	1.34
1	N	743	A	N9-C4	-5.12	1.34	1.37
1	N	828	U	N1-C6	-5.12	1.33	1.38
1	N	909	A	P-O5'	-5.12	1.54	1.59
1	N	971	G	C8-N7	5.12	1.34	1.30
1	N	1304	G	C6-N1	-5.12	1.35	1.39
1	N	972	C	C2-N3	5.12	1.39	1.35
1	N	1336	C	C5-C6	-5.12	1.30	1.34
1	N	127	G	C2'-O2'	-5.12	1.34	1.41
1	N	381	C	C4-N4	5.12	1.38	1.33
1	N	809	G	C5-C6	-5.12	1.37	1.42
1	N	819	A	C2-N3	5.12	1.38	1.33
1	N	519	C	C2'-C1'	-5.12	1.47	1.53
1	N	539	A	C5-C6	5.12	1.45	1.41
1	N	848	C	N3-C4	5.12	1.37	1.33
1	N	271	C	C4-N4	5.12	1.38	1.33
1	N	282	A	P-OP2	-5.12	1.40	1.49
1	N	895	G	C8-N7	-5.12	1.27	1.30
1	N	1036	A	N1-C2	5.12	1.39	1.34
1	N	1127	G	C3'-O3'	5.12	1.49	1.42
1	N	129	A	C5'-C4'	5.11	1.57	1.51
1	N	156	C	C4-C5	5.11	1.47	1.43
1	N	400	C	O4'-C1'	5.11	1.48	1.41
1	N	435	A	C2-N3	5.11	1.38	1.33
1	N	563	A	C6-N1	5.11	1.39	1.35
1	N	840	C	N3-C4	5.11	1.37	1.33
1	N	1465	A	C2'-C1'	-5.11	1.47	1.53
1	N	355	C	C2-O2	5.11	1.29	1.24
1	N	809	G	C2-N3	5.11	1.36	1.32
1	N	884	U	N3-C4	5.11	1.43	1.38
1	N	958	A	C8-N7	-5.11	1.27	1.31
1	N	1289	A	C5-C4	5.11	1.42	1.38
1	N	175	C	P-O5'	-5.11	1.54	1.59
1	N	674	G	C5-C6	-5.11	1.37	1.42
1	N	775	G	N3-C4	-5.11	1.31	1.35
1	N	1146	A	C6-N6	5.11	1.38	1.33
1	N	1421	G	C6-N1	5.11	1.43	1.39
1	N	155	A	O3'-P	-5.11	1.55	1.61
1	N	549	C	C2'-C1'	-5.11	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	570	G	C2'-C1'	-5.11	1.47	1.53
1	N	707	U	N3-C4	5.11	1.43	1.38
1	N	673	A	C2'-C1'	5.11	1.58	1.53
1	N	1313	U	O5'-C5'	-5.11	1.34	1.42
1	N	1395	C	C1'-N1	5.11	1.56	1.48
1	N	704	A	C1'-N9	5.11	1.56	1.48
1	N	801	U	N3-C4	5.11	1.43	1.38
1	N	1051	C	N3-C4	5.11	1.37	1.33
1	N	1077	G	C2-N2	5.11	1.39	1.34
1	N	1241	G	C2'-O2'	5.11	1.48	1.41
1	N	557	G	C2-N2	5.10	1.39	1.34
1	N	718	A	O3'-P	5.10	1.67	1.61
1	N	1054	C	C5'-C4'	5.10	1.57	1.51
1	N	1370	G	O3'-P	5.10	1.67	1.61
1	N	130	A	O4'-C1'	5.10	1.48	1.41
1	N	328	C	C3'-C2'	5.10	1.58	1.52
1	N	673	A	C6-N6	5.10	1.38	1.33
1	N	793	U	P-O5'	-5.10	1.54	1.59
1	N	807	A	N9-C4	-5.10	1.34	1.37
1	N	896	C	N3-C4	5.10	1.37	1.33
1	N	926	G	P-O5'	5.10	1.64	1.59
1	N	1013	G	N3-C4	-5.10	1.31	1.35
1	N	335	C	C4'-C3'	-5.10	1.47	1.52
1	N	1320	C	N3-C4	5.10	1.37	1.33
1	N	212	G	N9-C4	-5.10	1.33	1.38
1	N	319	G	C5-C4	5.10	1.42	1.38
1	N	324	G	N3-C4	-5.10	1.31	1.35
1	N	470	C	O4'-C1'	5.10	1.48	1.41
1	N	797	C	N3-C4	5.10	1.37	1.33
1	N	810	C	C3'-O3'	5.10	1.49	1.42
1	N	1110	A	N7-C5	5.10	1.42	1.39
1	N	1314	C	C2-N3	5.10	1.39	1.35
1	N	1512	U	C2'-C1'	-5.10	1.47	1.53
1	N	162	A	C6-N6	5.10	1.38	1.33
1	N	963	G	C4'-C3'	5.10	1.58	1.53
1	N	979	C	N3-C4	5.10	1.37	1.33
1	N	1169	A	C3'-C2'	5.10	1.58	1.52
1	N	1394	A	C8-N7	-5.10	1.27	1.31
1	N	48	C	C4-C5	-5.10	1.38	1.43
1	N	639	G	N9-C4	5.10	1.42	1.38
1	N	704	A	N3-C4	5.10	1.38	1.34
1	N	53	A	N1-C2	5.09	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	316	C	C5'-C4'	5.09	1.57	1.51
1	N	520	A	O4'-C1'	5.09	1.48	1.41
1	N	563	A	C3'-O3'	5.09	1.49	1.42
1	N	917	G	C6-N1	5.09	1.43	1.39
1	N	338	A	C1'-N9	5.09	1.56	1.48
1	N	469	C	C4-N4	5.09	1.38	1.33
1	N	1384	C	C4-C5	5.09	1.47	1.43
1	N	514	C	N3-C4	5.09	1.37	1.33
1	N	615	G	N3-C4	-5.09	1.31	1.35
1	N	627	G	C2-N3	5.09	1.36	1.32
1	N	1103	C	P-O5'	-5.09	1.54	1.59
1	N	46	G	P-O5'	-5.09	1.54	1.59
1	N	154	U	O3'-P	5.09	1.67	1.61
1	N	291	U	N1-C6	5.09	1.42	1.38
1	N	1094	G	C5'-C4'	5.09	1.57	1.51
1	N	1162	C	C5'-C4'	5.09	1.57	1.51
1	N	1392	G	C5'-C4'	5.09	1.57	1.51
1	N	394	G	C6-N1	5.09	1.43	1.39
1	N	978	A	N3-C4	-5.09	1.31	1.34
1	N	1315	U	P-O5'	-5.09	1.54	1.59
1	N	58	C	C4-C5	-5.09	1.38	1.43
1	N	59	A	N9-C8	5.08	1.41	1.37
1	N	564	C	O3'-P	-5.08	1.55	1.61
1	N	1180	A	P-O5'	5.08	1.64	1.59
1	N	1264	U	P-O5'	-5.08	1.54	1.59
1	N	1361	G	N3-C4	5.08	1.39	1.35
1	N	423	G	N1-C2	5.08	1.41	1.37
1	N	556	C	C3'-C2'	-5.08	1.47	1.52
1	N	628	G	C2'-C1'	-5.08	1.47	1.53
1	N	96	U	N3-C4	5.08	1.43	1.38
1	N	529	G	C5'-C4'	5.08	1.57	1.51
1	N	575	G	C4'-O4'	-5.08	1.39	1.45
1	N	619	U	N3-C4	5.08	1.43	1.38
1	N	670	G	C8-N7	-5.08	1.27	1.30
1	N	682	G	O4'-C1'	5.08	1.48	1.41
1	N	146	G	C5'-C4'	5.08	1.57	1.51
1	N	109	A	C5-C4	-5.08	1.35	1.38
1	N	160	A	C5'-C4'	5.08	1.57	1.51
1	N	877	G	O3'-P	-5.08	1.55	1.61
1	N	1232	U	C1'-N1	5.08	1.56	1.48
1	N	1265	C	C2-N3	5.08	1.39	1.35
1	N	1497	G	C5-C4	-5.08	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	118	U	C4'-O4'	5.08	1.52	1.45
1	N	922	G	N1-C2	5.08	1.41	1.37
1	N	14	U	C2'-C1'	-5.08	1.47	1.53
1	N	57	G	C5'-C4'	5.08	1.57	1.51
1	N	141	G	N9-C4	-5.08	1.33	1.38
1	N	1169	A	C5-C6	-5.08	1.36	1.41
1	N	575	G	C6-N1	5.07	1.43	1.39
1	N	725	G	C5-C4	5.07	1.42	1.38
1	N	1293	C	N1-C2	-5.07	1.35	1.40
1	N	675	A	C4'-O4'	5.07	1.52	1.45
1	N	47	C	O3'-P	-5.07	1.55	1.61
1	N	396	C	C5-C6	5.07	1.38	1.34
1	N	558	G	C5'-C4'	5.07	1.57	1.51
1	N	655	A	C4'-C3'	-5.07	1.47	1.52
1	N	752	G	N9-C8	5.07	1.41	1.37
1	N	840	C	C5-C6	-5.07	1.30	1.34
1	N	1449	C	N3-C4	5.07	1.37	1.33
1	N	57	G	C5-C4	5.07	1.41	1.38
1	N	1430	A	C6-N1	5.07	1.39	1.35
1	N	291	U	C3'-C2'	-5.07	1.47	1.52
1	N	359	G	N9-C4	-5.07	1.33	1.38
1	N	719	C	C4'-C3'	5.07	1.58	1.53
1	N	810	C	C4-N4	5.07	1.38	1.33
1	N	1186	G	N1-C2	5.07	1.41	1.37
1	N	1244	G	C4'-O4'	-5.07	1.39	1.45
1	N	1388	C	N1-C2	5.07	1.45	1.40
1	N	170	U	C1'-N1	5.07	1.56	1.48
1	N	175	C	N3-C4	5.07	1.37	1.33
1	N	188	C	O4'-C1'	5.07	1.48	1.41
1	N	1063	C	C4-C5	5.07	1.47	1.43
1	N	1140	C	C4-C5	-5.07	1.38	1.43
1	N	686	U	O4'-C1'	-5.06	1.35	1.41
1	N	1115	U	C2'-C1'	-5.06	1.47	1.53
1	N	1524	C	N3-C4	5.06	1.37	1.33
1	N	135	C	N1-C2	-5.06	1.35	1.40
1	N	374	A	N9-C8	-5.06	1.33	1.37
1	N	383	A	C6-N1	5.06	1.39	1.35
1	N	846	G	N9-C8	-5.06	1.34	1.37
1	N	901	A	N9-C4	-5.06	1.34	1.37
1	N	1066	C	C4-C5	-5.06	1.38	1.43
1	N	1122	U	N1-C2	-5.06	1.33	1.38
1	N	161	A	C6-N1	5.06	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	238	A	C5-C6	5.06	1.45	1.41
1	N	747	A	N7-C5	-5.06	1.36	1.39
1	N	892	A	C4'-O4'	5.06	1.52	1.45
1	N	961	U	O4'-C1'	5.06	1.48	1.41
1	N	1037	C	C4-N4	5.06	1.38	1.33
1	N	21	G	N1-C2	5.06	1.41	1.37
1	N	106	C	O4'-C1'	5.06	1.48	1.41
1	N	273	U	C2-N3	5.06	1.41	1.37
1	N	333	U	C3'-O3'	5.06	1.49	1.42
1	N	598	U	O4'-C1'	5.06	1.48	1.41
1	N	1088	G	N7-C5	5.06	1.42	1.39
1	N	1156	G	C2'-C1'	-5.06	1.47	1.53
1	N	1305	G	C5'-C4'	5.06	1.57	1.51
1	N	195	A	O5'-C5'	-5.06	1.34	1.42
1	N	924	C	C4-N4	5.06	1.38	1.33
1	N	1014	A	C6-N6	5.06	1.38	1.33
1	N	1326	U	P-O5'	-5.06	1.54	1.59
1	N	1500	A	C5'-C4'	5.06	1.57	1.51
1	N	396	C	C5'-C4'	5.06	1.57	1.51
1	N	983	A	C2'-C1'	-5.06	1.47	1.53
1	N	1226	C	N1-C2	-5.06	1.35	1.40
1	N	173	U	N1-C6	5.05	1.42	1.38
1	N	397	A	N1-C2	-5.05	1.29	1.34
1	N	625	U	O3'-P	-5.05	1.55	1.61
1	N	793	U	N1-C2	5.05	1.43	1.38
1	N	835	U	C2-O2	5.05	1.26	1.22
1	N	1073	U	C5'-C4'	5.05	1.57	1.51
1	N	554	A	C5-C4	5.05	1.42	1.38
1	N	1511	G	C5-C6	-5.05	1.37	1.42
1	N	91	U	C2'-O2'	5.05	1.48	1.41
1	N	237	G	N7-C5	5.05	1.42	1.39
1	N	381	C	C2-O2	5.05	1.28	1.24
1	N	489	C	N1-C6	5.05	1.40	1.37
1	N	553	A	P-O5'	-5.05	1.54	1.59
1	N	573	A	C3'-C2'	5.05	1.58	1.52
1	N	788	U	C2'-C1'	-5.05	1.47	1.53
1	N	800	G	N3-C4	-5.05	1.31	1.35
1	N	1276	G	N9-C4	-5.05	1.33	1.38
1	N	1376	U	N1-C6	-5.05	1.33	1.38
1	N	1190	G	C5-C6	-5.05	1.37	1.42
1	N	705	G	O3'-P	-5.05	1.55	1.61
1	N	262	A	N7-C5	-5.05	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	67	C	O4'-C1'	5.04	1.48	1.41
1	N	1139	G	N1-C2	5.04	1.41	1.37
1	N	1416	G	O3'-P	5.04	1.67	1.61
1	N	115	G	P-O5'	-5.04	1.54	1.59
1	N	151	A	O3'-P	5.04	1.67	1.61
1	N	866	C	N3-C4	5.04	1.37	1.33
1	N	1011	C	C2'-O2'	5.04	1.48	1.41
1	N	1198	G	C4'-O4'	-5.04	1.39	1.45
1	N	1279	G	N7-C5	-5.04	1.36	1.39
1	N	436	C	P-O5'	5.04	1.64	1.59
1	N	495	A	P-O5'	-5.04	1.54	1.59
1	N	926	G	N7-C5	-5.04	1.36	1.39
1	N	1357	A	C6-N1	5.04	1.39	1.35
1	N	57	G	C5-C6	-5.04	1.37	1.42
1	N	658	C	C4-C5	5.04	1.47	1.43
1	N	694	A	O4'-C1'	-5.04	1.35	1.41
1	N	1181	G	C1'-N9	5.04	1.56	1.48
1	N	132	C	C2-N3	-5.04	1.31	1.35
1	N	356	A	N9-C8	-5.04	1.33	1.37
1	N	793	U	C5-C6	5.04	1.38	1.34
1	N	1213	A	N7-C5	-5.04	1.36	1.39
1	N	1356	G	C2'-C1'	-5.04	1.47	1.53
1	N	229	U	C2'-C1'	-5.04	1.47	1.53
1	N	415	A	N9-C8	5.04	1.41	1.37
1	N	511	C	C3'-C2'	5.04	1.58	1.52
1	N	310	G	C2-N3	5.04	1.36	1.32
1	N	431	A	C6-N1	5.04	1.39	1.35
1	N	462	G	N3-C4	-5.04	1.31	1.35
1	N	665	A	C6-N1	5.04	1.39	1.35
1	N	1350	A	N9-C4	5.04	1.40	1.37
1	N	1091	U	C5'-C4'	5.03	1.57	1.51
1	N	1139	G	C2-N3	5.03	1.36	1.32
1	N	1488	G	C3'-C2'	-5.03	1.47	1.52
1	N	1504	G	O3'-P	-5.03	1.55	1.61
1	N	1498	U	C2-O2	-5.03	1.17	1.22
1	N	57	G	C4'-C3'	-5.03	1.47	1.52
1	N	847	G	N7-C5	-5.03	1.36	1.39
1	N	1143	G	N1-C2	5.03	1.41	1.37
1	N	1270	G	C2-N3	5.03	1.36	1.32
1	N	1286	U	C3'-O3'	5.03	1.49	1.42
1	N	1324	A	C2'-C1'	5.03	1.58	1.53
1	N	445	G	C2-N3	5.03	1.36	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	687	A	O3'-P	-5.03	1.55	1.61
1	N	959	A	C6-N6	5.03	1.38	1.33
1	N	223	A	C3'-O3'	5.03	1.49	1.42
1	N	451	A	N9-C8	5.03	1.41	1.37
1	N	557	G	N7-C5	-5.03	1.36	1.39
1	N	992	U	C2'-C1'	-5.03	1.47	1.53
1	N	1040	U	N1-C6	5.03	1.42	1.38
1	N	1047	G	C5-C6	-5.03	1.37	1.42
1	N	1076	U	C2'-C1'	-5.03	1.47	1.53
1	N	1217	C	C2'-C1'	-5.03	1.47	1.53
1	N	404	G	N3-C4	-5.03	1.31	1.35
1	N	495	A	N3-C4	-5.03	1.31	1.34
1	N	782	A	C6-N6	5.03	1.38	1.33
1	N	1049	U	C2-O2	5.03	1.26	1.22
1	N	1143	G	N9-C8	5.03	1.41	1.37
1	N	1246	A	N3-C4	-5.03	1.31	1.34
1	N	1261	A	N9-C8	-5.03	1.33	1.37
1	N	1304	G	N1-C2	5.03	1.41	1.37
1	N	44	A	C3'-O3'	5.02	1.49	1.42
1	N	313	A	C2'-C1'	-5.02	1.47	1.53
1	N	379	C	C3'-C2'	5.02	1.58	1.52
1	N	833	G	N9-C8	5.02	1.41	1.37
1	N	372	C	C4-C5	-5.02	1.39	1.43
1	N	478	A	P-O5'	-5.02	1.54	1.59
1	N	1018	G	C6-N1	5.02	1.43	1.39
1	N	1136	C	C4-C5	-5.02	1.39	1.43
1	N	1384	C	C3'-C2'	5.02	1.58	1.52
1	N	1429	A	C3'-C2'	-5.02	1.47	1.52
1	N	1200	C	N1-C6	5.02	1.40	1.37
1	N	1316	G	C5-C4	-5.02	1.34	1.38
1	N	1331	G	C5-C6	-5.02	1.37	1.42
1	N	296	U	C2'-C1'	5.02	1.58	1.53
1	N	18	C	N3-C4	5.02	1.37	1.33
1	N	546	A	P-O5'	-5.02	1.54	1.59
1	N	864	A	C2'-C1'	-5.02	1.47	1.53
1	N	1087	G	N1-C2	5.02	1.41	1.37
1	N	1169	A	C2-N3	5.02	1.38	1.33
1	N	290	C	C3'-O3'	5.01	1.49	1.42
1	N	529	G	C3'-C2'	-5.01	1.47	1.52
1	N	931	C	C5-C6	-5.01	1.30	1.34
1	N	1273	C	C4'-C3'	5.01	1.58	1.53
1	N	1304	G	O3'-P	-5.01	1.55	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1331	G	C8-N7	-5.01	1.27	1.30
1	N	481	G	C6-N1	5.01	1.43	1.39
1	N	899	C	C5'-C4'	5.01	1.57	1.51
1	N	444	G	C5-C4	-5.01	1.34	1.38
1	N	625	U	C2-N3	5.01	1.41	1.37
1	N	1042	A	C2-N3	5.01	1.38	1.33
1	N	230	G	P-O5'	-5.01	1.54	1.59
1	N	867	G	N1-C2	5.01	1.41	1.37
1	N	877	G	N3-C4	5.01	1.39	1.35
1	N	1423	G	C6-N1	5.01	1.43	1.39
1	N	1530	G	N7-C5	-5.01	1.36	1.39
1	N	155	A	C6-N1	5.01	1.39	1.35
1	N	1153	G	N9-C4	-5.01	1.33	1.38
1	N	26	A	N1-C2	5.01	1.38	1.34
1	N	203	G	N7-C5	5.01	1.42	1.39
1	N	283	U	C2-N3	5.01	1.41	1.37
1	N	344	A	N7-C5	-5.01	1.36	1.39
1	N	1159	U	C5-C6	5.01	1.38	1.34
1	N	384	G	C8-N7	-5.00	1.27	1.30
1	N	459	A	C6-N1	5.00	1.39	1.35
1	N	909	A	C5'-C4'	5.00	1.57	1.51
1	N	1163	A	O3'-P	-5.00	1.55	1.61
1	N	11	G	N9-C4	5.00	1.42	1.38
1	N	458	U	C1'-N1	5.00	1.56	1.48
1	N	498	A	O3'-P	-5.00	1.55	1.61
1	N	560	A	N7-C5	5.00	1.42	1.39
1	N	769	G	C5'-C4'	5.00	1.57	1.51
1	N	861	G	C4'-C3'	5.00	1.58	1.53
1	N	934	C	O4'-C1'	5.00	1.48	1.41
1	N	1109	C	C4'-C3'	-5.00	1.47	1.52
1	N	1127	G	C2-N2	-5.00	1.29	1.34
1	N	1324	A	N7-C5	-5.00	1.36	1.39
1	N	1424	U	P-O5'	-5.00	1.54	1.59

All (9573) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	28	A	N1-C6-N6	28.37	135.62	118.60
1	N	94	G	P-O3'-C3'	27.41	152.59	119.70
1	N	1362	A	P-O3'-C3'	27.37	152.54	119.70
1	N	559	A	N1-C6-N6	26.79	134.68	118.60
1	N	468	A	N1-C6-N6	25.93	134.16	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	573	A	N1-C6-N6	25.17	133.70	118.60
1	N	270	A	N1-C6-N6	25.10	133.66	118.60
1	N	450	G	N1-C6-O6	24.86	134.81	119.90
1	N	451	A	P-O3'-C3'	24.67	149.31	119.70
1	N	499	A	N1-C6-N6	24.31	133.19	118.60
1	N	484	G	P-O3'-C3'	24.27	148.83	119.70
1	N	774	G	C5-C6-O6	-24.21	114.07	128.60
1	N	687	A	N1-C6-N6	24.21	133.13	118.60
1	N	80	A	N1-C6-N6	23.50	132.70	118.60
1	N	1131	G	N1-C6-O6	23.10	133.76	119.90
1	N	74	A	N1-C6-N6	23.08	132.45	118.60
1	N	321	A	N1-C6-N6	22.97	132.38	118.60
1	N	1375	A	N1-C6-N6	22.89	132.34	118.60
1	N	104	G	N1-C6-O6	22.58	133.45	119.90
1	N	639	G	C5-C6-O6	-22.53	115.08	128.60
1	N	341	C	N3-C4-C5	-22.42	112.93	121.90
1	N	626	G	C5-C6-O6	-22.27	115.24	128.60
1	N	210	C	P-O3'-C3'	22.19	146.32	119.70
1	N	181	A	P-O3'-C3'	22.16	146.29	119.70
1	N	130	A	N1-C6-N6	22.04	131.83	118.60
1	N	605	U	P-O3'-C3'	22.03	146.13	119.70
1	N	945	G	N1-C6-O6	22.01	133.10	119.90
1	N	449	G	N1-C6-O6	21.99	133.09	119.90
1	N	1176	A	N1-C6-N6	21.89	131.74	118.60
1	N	867	G	N1-C6-O6	21.87	133.02	119.90
1	N	1350	A	N1-C6-N6	21.81	131.69	118.60
1	N	832	G	C5-C6-O6	-21.79	115.53	128.60
1	N	668	G	N1-C6-O6	21.77	132.97	119.90
1	N	832	G	N1-C6-O6	21.73	132.94	119.90
1	N	994	A	N1-C6-N6	21.71	131.63	118.60
1	N	45	G	C5-C6-O6	-21.64	115.61	128.60
1	N	1324	A	C5-C6-N1	-21.61	106.90	117.70
1	N	1392	G	C5-C6-O6	-21.46	115.72	128.60
1	N	774	G	N1-C6-O6	21.45	132.77	119.90
1	N	988	G	C5-C6-O6	-21.44	115.73	128.60
1	N	104	G	C5-C6-O6	-21.41	115.75	128.60
1	N	1105	A	N1-C6-N6	21.31	131.39	118.60
1	N	945	G	C5-C6-O6	-20.86	116.09	128.60
1	N	1399	C	P-O3'-C3'	20.76	144.62	119.70
1	N	1394	A	N1-C6-N6	20.75	131.05	118.60
1	N	1050	G	N1-C6-O6	20.73	132.34	119.90
1	N	746	A	N1-C6-N6	20.61	130.97	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	438	U	P-O3'-C3'	20.44	144.22	119.70
1	N	45	G	N1-C6-O6	20.42	132.15	119.90
1	N	1421	G	N1-C6-O6	20.37	132.12	119.90
1	N	642	A	N1-C6-N6	20.26	130.76	118.60
1	N	1171	A	N1-C6-N6	20.23	130.74	118.60
1	N	861	G	N1-C6-O6	20.22	132.03	119.90
1	N	293	G	C5-C6-O6	-20.20	116.48	128.60
1	N	601	G	C5-C6-O6	-20.07	116.56	128.60
1	N	549	C	N3-C4-C5	-20.05	113.88	121.90
1	N	616	G	N1-C6-O6	19.95	131.87	119.90
1	N	1339	A	N1-C6-N6	19.93	130.56	118.60
1	N	679	C	N3-C4-C5	-19.92	113.93	121.90
1	N	1201	A	P-O3'-C3'	19.86	143.54	119.70
1	N	1319	A	P-O3'-C3'	19.83	143.50	119.70
1	N	293	G	N1-C6-O6	19.76	131.75	119.90
1	N	402	G	N1-C6-O6	19.73	131.74	119.90
1	N	845	A	N1-C6-N6	19.70	130.42	118.60
1	N	588	G	N1-C6-O6	19.64	131.69	119.90
1	N	650	G	C5-C6-O6	-19.55	116.87	128.60
1	N	248	C	N3-C4-C5	-19.52	114.09	121.90
1	N	1089	G	C5-C6-O6	-19.52	116.89	128.60
1	N	141	G	C5-C6-O6	-19.48	116.91	128.60
1	N	635	A	N1-C6-N6	19.40	130.24	118.60
1	N	383	A	N1-C6-N6	19.39	130.23	118.60
1	N	651	C	N3-C4-C5	-19.39	114.15	121.90
1	N	276	G	N1-C6-O6	19.29	131.47	119.90
1	N	320	A	N1-C6-N6	19.25	130.15	118.60
1	N	515	G	C5-C6-O6	-19.22	117.07	128.60
1	N	626	G	N1-C6-O6	19.22	131.43	119.90
1	N	410	G	N1-C6-O6	19.22	131.43	119.90
1	N	1285	A	P-O3'-C3'	19.16	142.69	119.70
1	N	1318	A	N1-C6-N6	19.11	130.07	118.60
1	N	1226	C	N3-C4-C5	-19.11	114.26	121.90
1	N	1082	A	N1-C6-N6	19.10	130.06	118.60
1	N	1145	A	N1-C6-N6	19.06	130.03	118.60
1	N	172	A	P-O3'-C3'	19.03	142.54	119.70
1	N	313	A	C8-N9-C4	-19.02	98.19	105.80
1	N	1219	A	N1-C6-N6	19.01	130.01	118.60
1	N	1324	A	N1-C6-N6	18.94	129.97	118.60
1	N	380	G	N1-C6-O6	18.94	131.26	119.90
1	N	633	G	C5-C6-O6	-18.89	117.27	128.60
1	N	877	G	N1-C6-O6	18.84	131.21	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	728	A	N1-C6-N6	18.78	129.87	118.60
1	N	1319	A	N1-C6-N6	18.73	129.84	118.60
1	N	988	G	N1-C6-O6	18.73	131.13	119.90
1	N	747	A	N1-C6-N6	18.70	129.82	118.60
1	N	1242	G	P-O5'-C5'	18.68	150.79	120.90
1	N	1523	G	N1-C6-O6	18.67	131.10	119.90
1	N	1500	A	N1-C6-N6	18.67	129.80	118.60
1	N	951	G	N1-C6-O6	18.65	131.09	119.90
1	N	650	G	N1-C6-O6	18.62	131.07	119.90
1	N	238	A	N1-C6-N6	18.60	129.76	118.60
1	N	228	A	N1-C6-N6	18.57	129.74	118.60
1	N	364	A	N1-C6-N6	18.53	129.72	118.60
1	N	1311	A	N1-C6-N6	18.53	129.72	118.60
1	N	1089	G	N1-C6-O6	18.53	131.02	119.90
1	N	144	G	N1-C6-O6	18.50	131.00	119.90
1	N	1392	G	C8-N9-C4	-18.49	99.00	106.40
1	N	509	A	N1-C6-N6	18.47	129.68	118.60
1	N	144	G	C5-C6-O6	-18.42	117.55	128.60
1	N	1271	A	N1-C6-N6	18.41	129.65	118.60
1	N	681	A	N1-C6-N6	18.40	129.64	118.60
1	N	913	A	P-O3'-C3'	18.39	141.76	119.70
1	N	704	A	N1-C6-N6	18.34	129.61	118.60
1	N	457	G	C5-C6-O6	-18.32	117.61	128.60
1	N	560	A	N1-C6-N6	18.30	129.58	118.60
1	N	312	C	N3-C4-C5	-18.30	114.58	121.90
1	N	641	U	P-O3'-C3'	18.26	141.62	119.70
1	N	951	G	C5-C6-O6	-18.24	117.66	128.60
1	N	1036	A	N1-C6-N6	18.24	129.54	118.60
1	N	1157	A	C8-N9-C4	18.23	113.09	105.80
1	N	745	G	N1-C6-O6	18.22	130.83	119.90
1	N	76	G	C5-C6-O6	-18.17	117.70	128.60
1	N	1529	G	P-O3'-C3'	18.15	141.48	119.70
1	N	1101	A	P-O3'-C3'	18.14	141.46	119.70
1	N	1104	G	C5-C6-O6	-18.08	117.75	128.60
1	N	617	G	N1-C6-O6	18.07	130.74	119.90
1	N	601	G	N1-C6-O6	18.05	130.73	119.90
1	N	574	A	N1-C6-N6	18.03	129.42	118.60
1	N	1032	G	N1-C6-O6	18.02	130.71	119.90
1	N	775	G	C8-N9-C4	-18.00	99.20	106.40
1	N	639	G	N1-C6-O6	17.99	130.69	119.90
1	N	306	A	N1-C6-N6	17.98	129.39	118.60
1	N	901	A	N1-C6-N6	17.95	129.37	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	790	A	N1-C6-N6	17.94	129.36	118.60
1	N	1015	G	N1-C6-O6	17.93	130.66	119.90
1	N	1287	A	N1-C6-N6	17.89	129.34	118.60
1	N	1074	G	N1-C6-O6	17.85	130.61	119.90
1	N	141	G	N1-C6-O6	17.83	130.60	119.90
1	N	502	A	N1-C6-N6	17.83	129.30	118.60
1	N	1196	A	P-O3'-C3'	17.78	141.04	119.70
1	N	530	G	C5-C6-O6	-17.77	117.94	128.60
1	N	1236	A	N1-C6-N6	17.75	129.25	118.60
1	N	353	A	N1-C6-N6	17.74	129.24	118.60
1	N	816	A	N1-C6-N6	17.68	129.21	118.60
1	N	669	G	N1-C6-O6	17.66	130.49	119.90
1	N	319	G	N1-C6-O6	17.65	130.49	119.90
1	N	202	G	N1-C6-O6	17.64	130.48	119.90
1	N	1483	A	N1-C6-N6	17.61	129.17	118.60
1	N	1438	G	N1-C6-O6	17.60	130.46	119.90
1	N	867	G	C5-C6-O6	-17.59	118.05	128.60
1	N	63	C	C6-N1-C2	-17.58	113.27	120.30
1	N	1022	A	N1-C6-N6	17.56	129.13	118.60
1	N	964	A	N1-C6-N6	17.53	129.12	118.60
1	N	289	G	N1-C6-O6	17.52	130.41	119.90
1	N	1080	A	N1-C6-N6	17.50	129.10	118.60
1	N	977	A	N1-C6-N6	17.49	129.10	118.60
1	N	248	C	C2-N3-C4	17.48	128.64	119.90
1	N	547	A	P-O3'-C3'	17.47	140.67	119.70
1	N	1005	A	N1-C6-N6	17.46	129.08	118.60
1	N	1153	G	C5-C6-O6	-17.42	118.15	128.60
1	N	146	G	N1-C6-O6	17.40	130.34	119.90
1	N	1216	A	N1-C6-N6	17.38	129.03	118.60
1	N	1357	A	C2-N3-C4	-17.36	101.92	110.60
1	N	1438	G	C5-C6-O6	-17.34	118.19	128.60
1	N	664	G	N1-C6-O6	17.32	130.29	119.90
1	N	309	A	N1-C6-N6	17.29	128.98	118.60
1	N	704	A	C5-C6-N6	-17.29	109.86	123.70
1	N	1374	A	C4-C5-C6	17.28	125.64	117.00
1	N	1146	A	N1-C6-N6	17.26	128.96	118.60
1	N	511	C	P-O3'-C3'	17.25	140.41	119.70
1	N	76	G	N1-C6-O6	17.25	130.25	119.90
1	N	682	G	N1-C6-O6	17.25	130.25	119.90
1	N	1172	C	N3-C4-N4	17.19	130.04	118.00
1	N	608	A	N1-C6-N6	17.15	128.89	118.60
1	N	1272	G	N1-C6-O6	17.14	130.19	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	28	A	C5-C6-N6	-17.14	109.99	123.70
1	N	120	A	C8-N9-C4	-17.14	98.94	105.80
1	N	663	A	N1-C6-N6	17.14	128.88	118.60
1	N	1523	G	C5-C6-O6	-17.11	118.33	128.60
1	N	686	U	P-O3'-C3'	17.07	140.18	119.70
1	N	982	U	P-O3'-C3'	17.06	140.17	119.70
1	N	220	G	N1-C6-O6	17.06	130.13	119.90
1	N	127	G	C5-C6-O6	-17.05	118.37	128.60
1	N	318	G	C5-C6-O6	-17.01	118.39	128.60
1	N	947	G	N1-C6-O6	17.00	130.10	119.90
1	N	119	A	P-O3'-C3'	17.00	140.10	119.70
1	N	1182	G	C5-C6-O6	-16.98	118.42	128.60
1	N	1087	G	C5-C6-O6	-16.97	118.42	128.60
1	N	1142	G	N1-C6-O6	16.91	130.04	119.90
1	N	667	G	N1-C6-O6	16.90	130.04	119.90
1	N	450	G	C5-C6-O6	-16.85	118.49	128.60
1	N	1105	A	C5-C6-N1	-16.80	109.30	117.70
1	N	866	C	N3-C4-C5	-16.76	115.20	121.90
1	N	431	A	N1-C6-N6	16.75	128.65	118.60
1	N	451	A	N1-C6-N6	16.75	128.65	118.60
1	N	7	A	N1-C6-N6	16.75	128.65	118.60
1	N	457	G	N1-C6-O6	16.72	129.93	119.90
1	N	1131	G	C5-C6-O6	-16.72	118.57	128.60
1	N	53	A	C4-C5-C6	16.70	125.35	117.00
1	N	8	A	N1-C6-N6	16.70	128.62	118.60
1	N	656	G	N1-C6-O6	16.69	129.91	119.90
1	N	213	G	C5-C6-O6	-16.69	118.59	128.60
1	N	954	G	N1-C6-O6	16.68	129.91	119.90
1	N	1182	G	N1-C6-O6	16.68	129.91	119.90
1	N	941	G	C5-C6-O6	-16.68	118.59	128.60
1	N	258	G	N1-C6-O6	16.67	129.90	119.90
1	N	595	A	N1-C6-N6	16.67	128.60	118.60
1	N	47	C	P-O3'-C3'	16.67	139.70	119.70
1	N	823	C	N3-C4-N4	16.67	129.67	118.00
1	N	1530	G	P-O3'-C3'	16.66	139.70	119.70
1	N	655	A	N1-C6-N6	16.65	128.59	118.60
1	N	253	A	N1-C6-N6	16.63	128.58	118.60
1	N	1334	G	C5-C6-O6	-16.63	118.62	128.60
1	N	79	G	C5-C6-O6	-16.61	118.63	128.60
1	N	654	G	N1-C6-O6	16.61	129.87	119.90
1	N	1221	G	N1-C6-O6	16.58	129.85	119.90
1	N	86	G	C5-C6-O6	-16.57	118.66	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	86	G	N1-C6-O6	16.56	129.83	119.90
1	N	575	G	N1-C6-O6	16.55	129.83	119.90
1	N	665	A	N1-C6-N6	16.52	128.51	118.60
1	N	572	A	N1-C6-N6	16.52	128.51	118.60
1	N	585	G	O4'-C1'-N9	16.51	121.41	108.20
1	N	484	G	C4-C5-N7	16.50	117.40	110.80
1	N	392	C	N3-C4-N4	16.50	129.55	118.00
1	N	1228	C	C6-N1-C2	-16.48	113.71	120.30
1	N	140	U	P-O5'-C5'	16.48	147.26	120.90
1	N	120	A	C2-N3-C4	16.47	118.84	110.60
1	N	326	G	N1-C6-O6	16.42	129.75	119.90
1	N	1206	G	N1-C6-O6	16.42	129.75	119.90
1	N	1473	G	N1-C6-O6	16.42	129.75	119.90
1	N	109	A	N1-C6-N6	16.41	128.45	118.60
1	N	515	G	N1-C6-O6	16.41	129.75	119.90
1	N	895	G	N1-C6-O6	16.40	129.74	119.90
1	N	307	C	C6-N1-C2	-16.39	113.74	120.30
1	N	1191	A	N1-C6-N6	16.35	128.41	118.60
1	N	301	G	N1-C6-O6	16.35	129.71	119.90
1	N	474	G	N1-C6-O6	16.35	129.71	119.90
1	N	414	A	C5-C6-N1	-16.34	109.53	117.70
1	N	745	G	C5-C6-O6	-16.32	118.81	128.60
1	N	908	A	N1-C6-N6	16.31	128.39	118.60
1	N	985	C	N3-C4-N4	16.30	129.41	118.00
1	N	718	A	N1-C6-N6	16.29	128.38	118.60
1	N	1413	A	N1-C6-N6	16.28	128.37	118.60
1	N	193	C	O4'-C1'-N1	16.28	121.22	108.20
1	N	733	G	N1-C6-O6	16.27	129.66	119.90
1	N	674	G	N1-C6-O6	16.26	129.66	119.90
1	N	651	C	C2-N3-C4	16.23	128.02	119.90
1	N	1202	U	O4'-C1'-N1	16.23	121.18	108.20
1	N	633	G	N1-C6-O6	16.21	129.62	119.90
1	N	128	G	N1-C6-O6	16.18	129.61	119.90
1	N	752	G	C5-C6-O6	-16.18	118.89	128.60
1	N	1494	G	N1-C6-O6	16.18	129.61	119.90
1	N	250	A	N1-C6-N6	16.15	128.29	118.60
1	N	771	G	N9-C4-C5	-16.14	98.94	105.40
1	N	947	G	C5-C6-O6	-16.11	118.94	128.60
1	N	530	G	N1-C6-O6	16.10	129.56	119.90
1	N	143	A	N1-C6-N6	16.08	128.25	118.60
1	N	1476	A	N1-C6-N6	16.06	128.24	118.60
1	N	733	G	C5-C6-O6	-16.06	118.96	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	635	A	C5-C6-N1	-16.06	109.67	117.70
1	N	442	G	N1-C6-O6	16.03	129.52	119.90
1	N	1339	A	C5-C6-N6	-16.03	110.88	123.70
1	N	934	C	N3-C4-N4	16.01	129.21	118.00
1	N	1296	C	O4'-C1'-N1	16.01	121.01	108.20
1	N	531	U	O4'-C1'-N1	15.97	120.98	108.20
1	N	60	A	P-O3'-C3'	15.96	138.85	119.70
1	N	1396	A	N1-C2-N3	15.95	137.28	129.30
1	N	794	A	O4'-C1'-N9	15.94	120.95	108.20
1	N	1446	A	N1-C6-N6	15.94	128.17	118.60
1	N	1356	G	N1-C6-O6	15.94	129.46	119.90
1	N	825	A	N1-C6-N6	15.93	128.16	118.60
1	N	1094	G	P-O3'-C3'	15.91	138.79	119.70
1	N	1227	A	C5-C6-N1	-15.89	109.75	117.70
1	N	492	C	N3-C4-N4	15.86	129.10	118.00
1	N	1136	C	N3-C4-C5	-15.84	115.56	121.90
1	N	616	G	C5-C6-O6	-15.80	119.12	128.60
1	N	938	A	N1-C6-N6	15.77	128.06	118.60
1	N	87	C	N3-C4-C5	-15.76	115.60	121.90
1	N	1392	G	N1-C6-O6	15.76	129.35	119.90
1	N	843	U	O4'-C1'-N1	15.73	120.79	108.20
1	N	129	A	N1-C6-N6	15.72	128.03	118.60
1	N	669	G	C5-C6-O6	-15.72	119.17	128.60
1	N	1312	G	C5-C6-O6	-15.72	119.17	128.60
1	N	1206	G	C5-C6-O6	-15.70	119.18	128.60
1	N	1323	G	O4'-C1'-N9	15.69	120.75	108.20
1	N	393	A	N1-C6-N6	15.69	128.01	118.60
1	N	1127	G	N1-C6-O6	15.69	129.31	119.90
1	N	768	A	N1-C6-N6	15.68	128.01	118.60
1	N	939	G	C5-C6-N1	-15.67	103.67	111.50
1	N	318	G	N1-C6-O6	15.66	129.30	119.90
1	N	1004	A	N1-C6-N6	15.65	127.99	118.60
1	N	609	A	N1-C6-N6	15.63	127.98	118.60
1	N	1318	A	C5-C6-N6	-15.63	111.19	123.70
1	N	713	G	C5-C6-O6	-15.63	119.22	128.60
1	N	502	A	C5-C6-N1	-15.62	109.89	117.70
1	N	958	A	N1-C6-N6	15.62	127.97	118.60
1	N	128	G	C5-C6-O6	-15.60	119.24	128.60
1	N	1233	G	N1-C6-O6	15.59	129.26	119.90
1	N	487	A	C5-C6-N1	-15.58	109.91	117.70
1	N	1109	C	C6-N1-C2	-15.58	114.07	120.30
1	N	1396	A	C5-C6-N1	-15.58	109.91	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	482	A	C4-C5-C6	15.57	124.79	117.00
1	N	949	A	N1-C6-N6	15.56	127.94	118.60
1	N	1254	A	N1-C6-N6	15.55	127.93	118.60
1	N	1502	A	N1-C6-N6	15.55	127.93	118.60
1	N	675	A	N1-C6-N6	15.54	127.93	118.60
1	N	674	G	C5-C6-O6	-15.54	119.28	128.60
1	N	777	A	N1-C6-N6	15.54	127.92	118.60
1	N	1379	G	N1-C6-O6	15.54	129.22	119.90
1	N	348	G	N1-C6-O6	15.53	129.22	119.90
1	N	1226	C	N3-C4-N4	15.51	128.86	118.00
1	N	1074	G	C5-C6-O6	-15.50	119.30	128.60
1	N	53	A	N1-C6-N6	15.48	127.89	118.60
1	N	455	G	N1-C6-O6	15.47	129.18	119.90
1	N	1104	G	N1-C6-O6	15.46	129.18	119.90
1	N	1104	G	C2-N3-C4	15.44	119.62	111.90
1	N	292	G	N1-C6-O6	15.43	129.16	119.90
1	N	1036	A	C5-C6-N6	-15.39	111.38	123.70
1	N	40	C	C6-N1-C2	-15.39	114.15	120.30
1	N	535	A	P-O3'-C3'	15.35	138.11	119.70
1	N	729	A	N1-C6-N6	15.35	127.81	118.60
1	N	723	U	O4'-C1'-N1	15.34	120.47	108.20
1	N	1204	A	N1-C6-N6	15.34	127.80	118.60
1	N	836	G	N1-C6-O6	15.34	129.10	119.90
1	N	840	C	C6-N1-C2	-15.33	114.17	120.30
1	N	778	G	N3-C2-N2	15.32	130.63	119.90
1	N	1315	U	P-O5'-C5'	15.32	145.42	120.90
1	N	338	A	N1-C6-N6	15.31	127.79	118.60
1	N	495	A	N1-C6-N6	15.31	127.78	118.60
1	N	1174	G	N1-C6-O6	15.26	129.05	119.90
1	N	1067	A	N1-C6-N6	15.26	127.75	118.60
1	N	227	G	N1-C6-O6	15.25	129.05	119.90
1	N	344	A	P-O3'-C3'	15.22	137.97	119.70
1	N	1407	C	C6-N1-C2	-15.20	114.22	120.30
1	N	1166	G	N1-C6-O6	15.19	129.01	119.90
1	N	1001	C	N3-C4-N4	15.19	128.63	118.00
1	N	540	G	C5-C6-O6	-15.19	119.49	128.60
1	N	442	G	C5-C6-O6	-15.19	119.49	128.60
1	N	575	G	P-O3'-C3'	15.18	137.92	119.70
1	N	326	G	C5-C6-O6	-15.18	119.49	128.60
1	N	753	A	N1-C6-N6	15.18	127.71	118.60
1	N	660	C	O4'-C1'-N1	15.18	120.34	108.20
1	N	569	C	C5-C6-N1	15.16	128.58	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1192	C	N3-C4-C5	-15.16	115.84	121.90
1	N	346	G	C5-C6-O6	-15.14	119.51	128.60
1	N	455	G	C5-C6-O6	-15.12	119.53	128.60
1	N	1320	C	O4'-C1'-N1	15.12	120.29	108.20
1	N	1374	A	O4'-C1'-N9	15.11	120.29	108.20
1	N	649	A	N1-C6-N6	15.09	127.65	118.60
1	N	1393	U	O4'-C1'-N1	15.08	120.27	108.20
1	N	582	C	O4'-C1'-N1	15.08	120.26	108.20
1	N	1157	A	N9-C4-C5	-15.08	99.77	105.80
1	N	371	A	N1-C6-N6	15.07	127.64	118.60
1	N	487	A	N1-C6-N6	15.07	127.64	118.60
1	N	220	G	C5-C6-O6	-15.07	119.56	128.60
1	N	529	G	N1-C6-O6	15.04	128.93	119.90
1	N	395	C	C6-N1-C2	-15.03	114.29	120.30
1	N	1482	G	C5-C6-O6	-15.02	119.59	128.60
1	N	1059	C	C6-N1-C2	-15.02	114.29	120.30
1	N	1157	A	N1-C6-N6	14.99	127.60	118.60
1	N	1336	C	P-O3'-C3'	14.99	137.69	119.70
1	N	1334	G	N1-C6-O6	14.96	128.88	119.90
1	N	410	G	C5-C6-O6	-14.96	119.62	128.60
1	N	1133	G	C5-C6-O6	-14.95	119.63	128.60
1	N	51	A	N1-C6-N6	14.94	127.57	118.60
1	N	1387	G	N1-C6-O6	14.94	128.86	119.90
1	N	462	G	N1-C6-O6	14.93	128.86	119.90
1	N	271	C	N3-C4-N4	14.92	128.44	118.00
1	N	384	G	C5-C6-O6	-14.87	119.68	128.60
1	N	80	A	C5-C6-N6	-14.86	111.82	123.70
1	N	1505	G	N1-C6-O6	14.85	128.81	119.90
1	N	296	U	C2-N3-C4	-14.85	118.09	127.00
1	N	449	G	C5-C6-O6	-14.84	119.70	128.60
1	N	899	C	C6-N1-C2	-14.84	114.36	120.30
1	N	872	A	N1-C6-N6	14.84	127.50	118.60
1	N	1327	C	O4'-C1'-N1	14.83	120.07	108.20
1	N	1233	G	C5-C6-O6	-14.82	119.71	128.60
1	N	1432	G	P-O3'-C3'	14.79	137.45	119.70
1	N	16	A	N1-C6-N6	14.78	127.47	118.60
1	N	73	C	C6-N1-C2	-14.78	114.39	120.30
1	N	1215	G	N1-C6-O6	14.77	128.76	119.90
1	N	105	G	N1-C6-O6	14.77	128.76	119.90
1	N	1524	C	C5-C4-N4	-14.76	109.86	120.20
1	N	1415	G	N1-C6-O6	14.76	128.75	119.90
1	N	808	C	O4'-C1'-N1	14.75	120.00	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	78	A	N1-C6-N6	14.73	127.44	118.60
1	N	1248	A	N1-C6-N6	14.72	127.43	118.60
1	N	1019	A	N1-C6-N6	14.71	127.42	118.60
1	N	941	G	N1-C6-O6	14.70	128.72	119.90
1	N	414	A	N1-C6-N6	14.67	127.40	118.60
1	N	644	U	O4'-C1'-N1	14.66	119.93	108.20
1	N	712	A	N1-C6-N6	14.65	127.39	118.60
1	N	1513	A	C5-C6-N1	-14.64	110.38	117.70
1	N	900	A	C5-C6-N1	-14.62	110.39	117.70
1	N	547	A	N1-C6-N6	14.62	127.37	118.60
1	N	237	G	C5-C6-O6	-14.61	119.83	128.60
1	N	1061	G	N1-C6-O6	14.55	128.63	119.90
1	N	1534	A	N1-C6-N6	14.54	127.32	118.60
1	N	146	G	C5-C6-N1	-14.53	104.23	111.50
1	N	1050	G	C5-C6-N1	-14.53	104.24	111.50
1	N	1239	A	N1-C6-N6	14.53	127.32	118.60
1	N	380	G	C5-C6-O6	-14.50	119.90	128.60
1	N	1396	A	C4-C5-C6	14.50	124.25	117.00
1	N	305	G	P-O3'-C3'	14.48	137.08	119.70
1	N	841	C	N3-C4-C5	-14.47	116.11	121.90
1	N	127	G	N1-C6-O6	14.46	128.58	119.90
1	N	1093	A	N1-C6-N6	14.46	127.28	118.60
1	N	354	G	C5-C6-O6	-14.45	119.93	128.60
1	N	1312	G	N1-C6-O6	14.45	128.57	119.90
1	N	1483	A	N1-C2-N3	14.45	136.53	129.30
1	N	559	A	P-O3'-C3'	14.45	137.04	119.70
1	N	1469	C	N3-C4-C5	-14.43	116.13	121.90
1	N	1145	A	N1-C2-N3	14.43	136.51	129.30
1	N	1002	G	N1-C6-O6	14.41	128.55	119.90
1	N	570	G	C5-C6-O6	-14.41	119.95	128.60
1	N	541	G	N1-C6-O6	14.38	128.53	119.90
1	N	274	A	N1-C6-N6	14.38	127.23	118.60
1	N	492	C	N3-C4-C5	-14.37	116.15	121.90
1	N	242	G	N1-C6-O6	14.37	128.52	119.90
1	N	75	G	N1-C6-O6	14.36	128.52	119.90
1	N	1105	A	C4-C5-C6	14.34	124.17	117.00
1	N	1110	A	N1-C6-N6	14.34	127.20	118.60
1	N	149	A	N1-C6-N6	14.34	127.20	118.60
1	N	1497	G	N1-C2-N3	-14.32	115.31	123.90
1	N	852	G	N3-C2-N2	14.30	129.91	119.90
1	N	1377	A	N1-C6-N6	14.28	127.17	118.60
1	N	1108	G	C5-C6-N1	-14.27	104.36	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1280	A	N1-C6-N6	14.27	127.16	118.60
1	N	967	C	C6-N1-C2	-14.26	114.59	120.30
1	N	23	C	C5-C6-N1	14.26	128.13	121.00
1	N	806	C	N3-C4-C5	-14.25	116.20	121.90
1	N	106	C	O4'-C1'-N1	14.23	119.59	108.20
1	N	1285	A	N1-C6-N6	14.23	127.14	118.60
1	N	1375	A	C5-C6-N6	-14.23	112.32	123.70
1	N	1356	G	C5-C6-O6	-14.22	120.07	128.60
1	N	87	C	C2-N3-C4	14.22	127.01	119.90
1	N	1530	G	O4'-C1'-N9	14.21	119.57	108.20
1	N	741	G	C5-C6-O6	-14.21	120.08	128.60
1	N	527	G	N1-C2-N3	-14.20	115.38	123.90
1	N	806	C	C5-C6-N1	14.16	128.08	121.00
1	N	1283	U	P-O5'-C5'	14.15	143.55	120.90
1	N	263	A	N1-C6-N6	14.15	127.09	118.60
1	N	1402	C	O4'-C1'-N1	14.14	119.51	108.20
1	N	1493	A	N1-C6-N6	14.12	127.07	118.60
1	N	161	A	C5-C6-N1	-14.11	110.64	117.70
1	N	249	U	O4'-C1'-N1	14.09	119.47	108.20
1	N	846	G	C5-C6-O6	-14.07	120.16	128.60
1	N	877	G	C5-C6-O6	-14.06	120.16	128.60
1	N	655	A	C5-C6-N1	-14.05	110.67	117.70
1	N	1031	C	P-O5'-C5'	14.05	143.38	120.90
1	N	1190	G	C5-C6-O6	-14.04	120.17	128.60
1	N	1176	A	C5-C6-N6	-14.04	112.47	123.70
1	N	31	G	N1-C6-O6	14.03	128.32	119.90
1	N	1227	A	N1-C6-N6	14.00	127.00	118.60
1	N	967	C	C2-N3-C4	-13.98	112.91	119.90
1	N	823	C	C5-C4-N4	-13.97	110.42	120.20
1	N	1102	A	N1-C6-N6	13.97	126.98	118.60
1	N	1421	G	C5-C6-O6	-13.96	120.22	128.60
1	N	474	G	C5-C6-O6	-13.96	120.23	128.60
1	N	1035	A	N1-C6-N6	13.96	126.97	118.60
1	N	51	A	P-O3'-C3'	13.96	136.45	119.70
1	N	460	A	N1-C6-N6	13.95	126.97	118.60
1	N	776	G	N1-C6-O6	13.94	128.27	119.90
1	N	491	G	C5-C6-O6	-13.93	120.25	128.60
1	N	1327	C	C6-N1-C2	-13.92	114.73	120.30
1	N	510	A	N1-C6-N6	13.91	126.95	118.60
1	N	131	A	O4'-C1'-N9	13.91	119.33	108.20
1	N	1014	A	N1-C6-N6	13.91	126.94	118.60
1	N	186	C	C5-C6-N1	13.90	127.95	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	351	G	P-O3'-C3'	13.90	136.39	119.70
1	N	303	A	N1-C6-N6	13.89	126.93	118.60
1	N	817	C	O4'-C1'-N1	13.88	119.30	108.20
1	N	1265	C	O4'-C1'-N1	13.85	119.28	108.20
1	N	1460	C	O4'-C1'-N1	13.84	119.28	108.20
1	N	496	A	N1-C6-N6	13.84	126.90	118.60
1	N	581	G	C5-C6-O6	-13.83	120.30	128.60
1	N	972	C	O4'-C1'-N1	13.83	119.27	108.20
1	N	237	G	N1-C6-O6	13.82	128.19	119.90
1	N	469	C	N3-C4-C5	-13.82	116.37	121.90
1	N	658	C	O4'-C1'-N1	13.82	119.25	108.20
1	N	919	A	N1-C6-N6	13.81	126.89	118.60
1	N	1380	U	P-O3'-C3'	13.77	136.22	119.70
1	N	1534	A	C4-C5-C6	13.77	123.88	117.00
1	N	1297	G	N1-C2-N3	-13.75	115.65	123.90
1	N	1384	C	N3-C4-C5	-13.74	116.41	121.90
1	N	1142	G	C5-C6-N1	-13.73	104.63	111.50
1	N	744	C	N3-C4-C5	-13.73	116.41	121.90
1	N	895	G	C5-C6-O6	-13.73	120.36	128.60
1	N	36	C	O4'-C1'-N1	13.72	119.18	108.20
1	N	580	C	N3-C4-C5	-13.72	116.41	121.90
1	N	250	A	O4'-C1'-N9	13.71	119.17	108.20
1	N	351	G	N1-C2-N3	-13.71	115.67	123.90
1	N	760	G	N1-C6-O6	13.70	128.12	119.90
1	N	1153	G	N1-C6-O6	13.70	128.12	119.90
1	N	295	C	O4'-C1'-N1	13.70	119.16	108.20
1	N	364	A	C5-C6-N6	-13.69	112.75	123.70
1	N	1491	G	N1-C6-O6	13.69	128.11	119.90
1	N	1513	A	N1-C6-N6	13.68	126.81	118.60
1	N	743	A	N1-C6-N6	13.68	126.81	118.60
1	N	468	A	C5-C6-N6	-13.68	112.76	123.70
1	N	213	G	N1-C6-O6	13.67	128.10	119.90
1	N	684	U	N3-C4-O4	13.67	128.97	119.40
1	N	1453	G	N1-C6-O6	13.67	128.10	119.90
1	N	905	U	O4'-C1'-N1	13.67	119.13	108.20
1	N	752	G	O4'-C1'-N9	13.66	119.13	108.20
1	N	66	A	C5-C6-N1	-13.66	110.87	117.70
1	N	747	A	C5-C6-N6	-13.66	112.77	123.70
1	N	198	G	O4'-C1'-N9	13.66	119.13	108.20
1	N	805	C	N3-C4-C5	-13.65	116.44	121.90
1	N	1155	A	N1-C6-N6	13.65	126.79	118.60
1	N	656	G	C5-C6-O6	-13.64	120.41	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	151	A	N1-C6-N6	13.62	126.77	118.60
1	N	974	A	N1-C6-N6	13.61	126.77	118.60
1	N	484	G	N1-C6-O6	13.61	128.06	119.90
1	N	585	G	N1-C6-O6	13.60	128.06	119.90
1	N	130	A	C5-C6-N1	-13.59	110.90	117.70
1	N	630	A	C5-C6-N1	-13.58	110.91	117.70
1	N	1001	C	N3-C4-C5	-13.58	116.47	121.90
1	N	384	G	N1-C6-O6	13.57	128.04	119.90
1	N	654	G	C5-C6-O6	-13.57	120.46	128.60
1	N	990	C	C2-N3-C4	13.57	126.69	119.90
1	N	529	G	C5-C6-O6	-13.55	120.47	128.60
1	N	990	C	N3-C4-C5	-13.53	116.49	121.90
1	N	149	A	C4-C5-C6	13.53	123.76	117.00
1	N	1322	C	N3-C4-C5	-13.51	116.49	121.90
1	N	596	A	C4-C5-C6	13.51	123.75	117.00
1	N	630	A	N1-C6-N6	13.51	126.70	118.60
1	N	868	C	O4'-C1'-N1	13.50	119.00	108.20
1	N	876	C	C6-N1-C2	-13.50	114.90	120.30
1	N	395	C	N3-C4-C5	-13.49	116.50	121.90
1	N	46	G	C2-N3-C4	13.48	118.64	111.90
1	N	1433	A	N1-C6-N6	13.46	126.68	118.60
1	N	372	C	P-O3'-C3'	13.46	135.85	119.70
1	N	75	G	N1-C2-N3	-13.45	115.83	123.90
1	N	187	G	N1-C6-O6	13.43	127.95	119.90
1	N	266	G	P-O3'-C3'	13.42	135.81	119.70
1	N	182	A	N1-C6-N6	13.42	126.65	118.60
1	N	71	A	N1-C6-N6	13.42	126.65	118.60
1	N	1180	A	N1-C6-N6	13.41	126.65	118.60
1	N	73	C	O4'-C1'-N1	13.40	118.92	108.20
1	N	292	G	C5-C6-O6	-13.40	120.56	128.60
1	N	847	G	C8-N9-C4	-13.40	101.04	106.40
1	N	895	G	O4'-C1'-N9	13.40	118.92	108.20
1	N	402	G	C5-C6-O6	-13.39	120.56	128.60
1	N	456	A	N1-C6-N6	13.39	126.64	118.60
1	N	490	C	N3-C4-C5	-13.39	116.54	121.90
1	N	481	G	C6-C5-N7	-13.39	122.37	130.40
1	N	1136	C	C4-C5-C6	13.38	124.09	117.40
1	N	817	C	P-O3'-C3'	13.38	135.75	119.70
1	N	1419	G	C8-N9-C4	-13.37	101.05	106.40
1	N	498	A	N1-C6-N6	13.37	126.62	118.60
1	N	425	G	C5-C6-O6	-13.36	120.58	128.60
1	N	906	A	N9-C4-C5	13.36	111.14	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	487	A	C4-C5-C6	13.36	123.68	117.00
1	N	60	A	N1-C6-N6	13.36	126.61	118.60
1	N	406	G	O4'-C1'-N9	13.35	118.88	108.20
1	N	206	C	N3-C4-N4	13.35	127.34	118.00
1	N	964	A	C4-C5-C6	13.35	123.67	117.00
1	N	667	G	C5-C6-O6	-13.33	120.60	128.60
1	N	670	G	N1-C6-O6	13.32	127.89	119.90
1	N	984	C	O4'-C1'-N1	13.31	118.85	108.20
1	N	578	C	C4-C5-C6	-13.31	110.74	117.40
1	N	559	A	C5-C6-N6	-13.31	113.05	123.70
1	N	412	A	P-O3'-C3'	13.30	135.66	119.70
1	N	776	G	C5-C6-O6	-13.29	120.62	128.60
1	N	585	G	C5-C6-O6	-13.29	120.62	128.60
1	N	73	C	N3-C4-N4	13.29	127.30	118.00
1	N	321	A	C5-C6-N1	-13.28	111.06	117.70
1	N	1039	G	C8-N9-C4	-13.27	101.09	106.40
1	N	1275	A	N1-C6-N6	13.25	126.55	118.60
1	N	1368	A	N9-C4-C5	13.25	111.10	105.80
1	N	816	A	C5-C6-N1	-13.25	111.08	117.70
1	N	602	A	N1-C6-N6	13.25	126.55	118.60
1	N	1137	C	N3-C4-C5	-13.25	116.60	121.90
1	N	1261	A	N1-C6-N6	13.24	126.55	118.60
1	N	527	G	C2-N3-C4	13.24	118.52	111.90
1	N	1041	G	O4'-C1'-N9	13.24	118.79	108.20
1	N	1026	G	C5-C6-O6	-13.24	120.66	128.60
1	N	1087	G	N1-C6-O6	13.23	127.84	119.90
1	N	44	A	N1-C6-N6	13.23	126.54	118.60
1	N	607	A	N1-C6-N6	13.23	126.54	118.60
1	N	1009	U	N1-C2-N3	-13.23	106.96	114.90
1	N	1022	A	C5-C6-N1	-13.23	111.08	117.70
1	N	664	G	C5-C6-O6	-13.22	120.67	128.60
1	N	1196	A	O4'-C1'-N9	13.22	118.77	108.20
1	N	1081	A	N1-C6-N6	13.21	126.53	118.60
1	N	1352	C	O4'-C1'-N1	13.21	118.77	108.20
1	N	721	G	N1-C6-O6	13.21	127.82	119.90
1	N	191	G	C5-C6-O6	-13.20	120.68	128.60
1	N	446	G	N1-C6-O6	13.20	127.82	119.90
1	N	262	A	N1-C6-N6	13.20	126.52	118.60
1	N	906	A	C4-C5-C6	13.18	123.59	117.00
1	N	1041	G	N1-C6-O6	13.18	127.81	119.90
1	N	217	C	O4'-C1'-N1	13.17	118.73	108.20
1	N	933	G	C5-C6-O6	-13.15	120.71	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	780	A	N1-C6-N6	13.15	126.49	118.60
1	N	1062	U	P-O3'-C3'	13.15	135.48	119.70
1	N	1413	A	N9-C4-C5	13.15	111.06	105.80
1	N	354	G	N1-C6-O6	13.13	127.78	119.90
1	N	702	A	N1-C6-N6	13.12	126.47	118.60
1	N	698	G	C5-C6-O6	-13.12	120.73	128.60
1	N	404	G	N9-C4-C5	-13.12	100.15	105.40
1	N	778	G	N1-C2-N3	-13.12	116.03	123.90
1	N	543	U	O4'-C1'-N1	13.11	118.69	108.20
1	N	1002	G	C5-C6-O6	-13.11	120.73	128.60
1	N	1397	C	N3-C4-C5	-13.10	116.66	121.90
1	N	1160	G	C5-C6-O6	-13.10	120.74	128.60
1	N	1166	G	C5-C6-O6	-13.10	120.74	128.60
1	N	217	C	N3-C4-N4	13.09	127.16	118.00
1	N	400	C	O4'-C1'-N1	13.09	118.67	108.20
1	N	741	G	N1-C6-O6	13.08	127.75	119.90
1	N	325	A	O4'-C1'-N9	13.07	118.66	108.20
1	N	785	G	C5-C6-O6	-13.07	120.76	128.60
1	N	829	G	N1-C6-O6	13.07	127.74	119.90
1	N	540	G	N1-C6-O6	13.07	127.74	119.90
1	N	1131	G	O4'-C1'-N9	13.07	118.65	108.20
1	N	158	G	N1-C6-O6	13.06	127.74	119.90
1	N	976	G	N1-C6-O6	13.06	127.74	119.90
1	N	1158	C	N3-C4-C5	-13.06	116.68	121.90
1	N	1458	G	N1-C6-O6	13.06	127.73	119.90
1	N	1015	G	C5-C6-O6	-13.05	120.77	128.60
1	N	322	C	C5-C6-N1	13.04	127.52	121.00
1	N	93	U	P-O5'-C5'	13.04	141.76	120.90
1	N	1121	U	O4'-C1'-N1	13.03	118.62	108.20
1	N	883	C	N3-C4-C5	-13.02	116.69	121.90
1	N	53	A	C5-C6-N1	-13.02	111.19	117.70
1	N	263	A	C8-N9-C4	-13.02	100.59	105.80
1	N	524	G	O4'-C1'-N9	13.02	118.61	108.20
1	N	991	U	P-O3'-C3'	13.01	135.31	119.70
1	N	633	G	O4'-C1'-N9	13.01	118.61	108.20
1	N	347	G	C6-C5-N7	-12.99	122.60	130.40
1	N	752	G	N1-C6-O6	12.99	127.70	119.90
1	N	158	G	C5-C6-O6	-12.99	120.81	128.60
1	N	579	A	N1-C6-N6	12.99	126.39	118.60
1	N	459	A	N1-C6-N6	12.98	126.39	118.60
1	N	499	A	C5-C6-N6	-12.98	113.32	123.70
1	N	1092	A	O4'-C1'-N9	12.97	118.58	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1003	G	C5-C6-O6	-12.97	120.82	128.60
1	N	202	G	C5-N7-C8	12.97	110.78	104.30
1	N	1111	A	C4-C5-C6	12.96	123.48	117.00
1	N	539	A	N1-C6-N6	12.96	126.38	118.60
1	N	1154	G	N1-C6-O6	12.96	127.67	119.90
1	N	1350	A	C5-C6-N6	-12.96	113.33	123.70
1	N	25	C	C6-N1-C2	12.95	125.48	120.30
1	N	46	G	N1-C2-N3	-12.95	116.13	123.90
1	N	1088	G	N1-C6-O6	12.95	127.67	119.90
1	N	1396	A	C5-N7-C8	12.95	110.37	103.90
1	N	161	A	N1-C6-N6	12.94	126.36	118.60
1	N	1502	A	C5-C6-N1	-12.94	111.23	117.70
1	N	814	A	P-O3'-C3'	12.93	135.21	119.70
1	N	1106	G	C5-C6-O6	-12.93	120.84	128.60
1	N	491	G	N1-C6-O6	12.92	127.66	119.90
1	N	892	A	C5-C6-N1	-12.91	111.25	117.70
1	N	1106	G	N1-C6-O6	12.91	127.64	119.90
1	N	299	G	O4'-C1'-N9	12.91	118.53	108.20
1	N	1239	A	C5-C6-N6	-12.90	113.38	123.70
1	N	489	C	N3-C4-N4	12.90	127.03	118.00
1	N	628	G	N1-C6-O6	12.90	127.64	119.90
1	N	553	A	N1-C6-N6	12.89	126.34	118.60
1	N	621	A	N1-C6-N6	12.89	126.33	118.60
1	N	346	G	N1-C6-O6	12.89	127.63	119.90
1	N	1352	C	C5-C6-N1	12.88	127.44	121.00
1	N	1157	A	N7-C8-N9	-12.88	107.36	113.80
1	N	1384	C	C6-N1-C2	-12.87	115.15	120.30
1	N	1222	G	O4'-C1'-N9	12.86	118.49	108.20
1	N	950	U	P-O5'-C5'	12.86	141.48	120.90
1	N	532	A	P-O3'-C3'	12.85	135.12	119.70
1	N	319	G	C5-C6-N1	-12.85	105.08	111.50
1	N	861	G	C5-C6-O6	-12.85	120.89	128.60
1	N	715	A	N1-C6-N6	12.84	126.31	118.60
1	N	197	A	P-O5'-C5'	12.84	141.45	120.90
1	N	355	C	C6-N1-C2	-12.84	115.16	120.30
1	N	706	A	N1-C6-N6	12.84	126.30	118.60
1	N	198	G	N1-C6-O6	12.84	127.60	119.90
1	N	588	G	C5-C6-O6	-12.84	120.90	128.60
1	N	924	C	N3-C4-N4	12.84	126.98	118.00
1	N	837	U	C5-C6-N1	12.83	129.11	122.70
1	N	186	C	C6-N1-C2	-12.81	115.17	120.30
1	N	890	G	C2-N3-C4	12.81	118.30	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	444	G	C5-C6-O6	-12.80	120.92	128.60
1	N	1323	G	C5-C6-O6	-12.79	120.92	128.60
1	N	1088	G	P-O5'-C5'	12.79	141.36	120.90
1	N	241	G	N1-C6-O6	12.79	127.57	119.90
1	N	1120	C	N3-C4-C5	-12.78	116.79	121.90
1	N	31	G	C5-C6-O6	-12.77	120.94	128.60
1	N	1245	C	O4'-C1'-N1	12.76	118.41	108.20
1	N	1241	G	N1-C6-O6	12.75	127.55	119.90
1	N	1294	G	N1-C6-O6	12.75	127.55	119.90
1	N	477	C	N3-C4-C5	-12.74	116.80	121.90
1	N	1413	A	C4-C5-C6	12.74	123.37	117.00
1	N	1476	A	C4-C5-C6	12.73	123.37	117.00
1	N	280	C	P-O3'-C3'	12.73	134.97	119.70
1	N	558	G	N1-C6-O6	12.71	127.53	119.90
1	N	131	A	N1-C6-N6	12.71	126.23	118.60
1	N	939	G	N1-C6-O6	12.71	127.52	119.90
1	N	792	A	P-O3'-C3'	12.70	134.94	119.70
1	N	478	A	N1-C6-N6	12.69	126.21	118.60
1	N	495	A	P-O3'-C3'	12.69	134.92	119.70
1	N	1003	G	N1-C6-O6	12.69	127.51	119.90
1	N	255	G	C5-C6-O6	-12.68	120.99	128.60
1	N	1087	G	N1-C2-N3	-12.68	116.29	123.90
1	N	1221	G	C5-C6-O6	-12.67	121.00	128.60
1	N	631	C	O4'-C1'-N1	12.66	118.33	108.20
1	N	836	G	C5-C6-O6	-12.65	121.01	128.60
1	N	19	A	N1-C6-N6	12.64	126.19	118.60
1	N	1331	G	P-O3'-C3'	12.64	134.87	119.70
1	N	445	G	N1-C6-O6	12.64	127.48	119.90
1	N	716	A	N1-C6-N6	12.64	126.18	118.60
1	N	17	U	O4'-C1'-N1	12.63	118.31	108.20
1	N	1324	A	C4-C5-C6	12.63	123.32	117.00
1	N	668	G	C5-C6-O6	-12.62	121.03	128.60
1	N	457	G	C2-N3-C4	12.62	118.21	111.90
1	N	754	C	C6-N1-C2	-12.62	115.25	120.30
1	N	184	G	C4-C5-N7	-12.62	105.75	110.80
1	N	755	G	C5-C6-O6	-12.62	121.03	128.60
1	N	930	C	O4'-C1'-N1	12.62	118.30	108.20
1	N	1331	G	P-O5'-C5'	12.62	141.09	120.90
1	N	934	C	P-O3'-C3'	12.62	134.84	119.70
1	N	69	G	N1-C6-O6	12.61	127.47	119.90
1	N	48	C	C5-C4-N4	-12.61	111.38	120.20
1	N	513	C	P-O5'-C5'	12.61	141.07	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	787	A	N1-C6-N6	12.60	126.16	118.60
1	N	369	G	C5-C6-O6	-12.59	121.05	128.60
1	N	1084	G	N1-C6-O6	12.59	127.45	119.90
1	N	752	G	P-O3'-C3'	12.56	134.77	119.70
1	N	845	A	N1-C2-N3	12.55	135.58	129.30
1	N	555	U	P-O3'-C3'	12.55	134.76	119.70
1	N	1395	C	P-O3'-C3'	12.55	134.76	119.70
1	N	251	G	C5-C6-O6	-12.55	121.07	128.60
1	N	191	G	N1-C6-O6	12.55	127.43	119.90
1	N	623	C	C6-N1-C2	-12.54	115.28	120.30
1	N	1046	A	N1-C6-N6	12.54	126.12	118.60
1	N	1454	G	O4'-C1'-N9	12.54	118.23	108.20
1	N	276	G	C5-C6-O6	-12.54	121.08	128.60
1	N	399	G	C5-C6-O6	-12.53	121.08	128.60
1	N	510	A	C5-C6-N6	-12.52	113.69	123.70
1	N	738	C	O4'-C1'-N1	12.51	118.21	108.20
1	N	781	A	N1-C6-N6	12.50	126.10	118.60
1	N	1519	A	N1-C6-N6	12.50	126.10	118.60
1	N	587	G	P-O3'-C3'	12.50	134.69	119.70
1	N	831	A	N1-C6-N6	12.50	126.10	118.60
1	N	755	G	N1-C6-O6	12.49	127.40	119.90
1	N	933	G	N1-C6-O6	12.48	127.39	119.90
1	N	338	A	C4-C5-C6	12.48	123.24	117.00
1	N	189	A	N1-C6-N6	12.47	126.08	118.60
1	N	1047	G	N1-C6-O6	12.47	127.38	119.90
1	N	506	G	N1-C6-O6	12.46	127.38	119.90
1	N	82	G	N1-C6-O6	12.46	127.38	119.90
1	N	1178	G	N1-C6-O6	12.46	127.38	119.90
1	N	78	A	C4-C5-C6	12.45	123.23	117.00
1	N	1396	A	N1-C6-N6	12.44	126.06	118.60
1	N	906	A	N1-C6-N6	12.43	126.06	118.60
1	N	866	C	C2-N3-C4	12.42	126.11	119.90
1	N	313	A	N1-C6-N6	12.42	126.05	118.60
1	N	248	C	C6-N1-C2	-12.41	115.33	120.30
1	N	806	C	C2-N3-C4	12.41	126.10	119.90
1	N	606	G	C5-C6-O6	-12.40	121.16	128.60
1	N	449	G	P-O3'-C3'	-12.40	104.82	119.70
1	N	1403	C	N3-C4-C5	-12.40	116.94	121.90
1	N	424	G	O4'-C1'-N9	12.40	118.12	108.20
1	N	1215	G	C5-C6-O6	-12.40	121.16	128.60
1	N	1196	A	N1-C6-N6	12.39	126.04	118.60
1	N	1409	C	C5-C4-N4	-12.39	111.52	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	756	C	O4'-C1'-N1	12.39	118.11	108.20
1	N	953	G	N1-C6-O6	12.39	127.33	119.90
1	N	1026	G	N1-C6-O6	12.39	127.33	119.90
1	N	48	C	N3-C4-N4	12.39	126.67	118.00
1	N	1005	A	C5-C6-N1	-12.39	111.51	117.70
1	N	546	A	C4-C5-C6	12.38	123.19	117.00
1	N	1102	A	P-O5'-C5'	12.38	140.71	120.90
1	N	1483	A	O4'-C1'-N9	12.38	118.10	108.20
1	N	1079	G	C5-C6-O6	-12.37	121.18	128.60
1	N	259	G	C5-C6-O6	-12.37	121.18	128.60
1	N	1223	C	N3-C4-C5	-12.37	116.95	121.90
1	N	495	A	C5-C6-N6	-12.36	113.81	123.70
1	N	924	C	O4'-C1'-N1	12.36	118.09	108.20
1	N	832	G	C6-N1-C2	-12.36	117.68	125.10
1	N	656	G	N7-C8-N9	-12.36	106.92	113.10
1	N	57	G	N1-C6-O6	12.35	127.31	119.90
1	N	1324	A	C6-N1-C2	12.35	126.01	118.60
1	N	566	G	N1-C6-O6	12.35	127.31	119.90
1	N	852	G	C5-C6-O6	-12.35	121.19	128.60
1	N	912	C	N3-C4-N4	12.35	126.64	118.00
1	N	1437	A	N1-C6-N6	12.33	126.00	118.60
1	N	425	G	N1-C6-O6	12.33	127.30	119.90
1	N	274	A	C5-C6-N1	-12.32	111.54	117.70
1	N	814	A	N1-C6-N6	12.32	125.99	118.60
1	N	61	G	O4'-C1'-N9	12.31	118.05	108.20
1	N	1145	A	C8-N9-C4	-12.31	100.88	105.80
1	N	1147	C	C6-N1-C2	-12.31	115.38	120.30
1	N	1299	A	N1-C6-N6	12.31	125.98	118.60
1	N	1514	G	C5-C6-N1	-12.31	105.35	111.50
1	N	869	G	C8-N9-C4	-12.30	101.48	106.40
1	N	1093	A	N9-C4-C5	12.30	110.72	105.80
1	N	1266	G	O4'-C1'-N9	12.30	118.04	108.20
1	N	501	C	O4'-C1'-N1	12.29	118.03	108.20
1	N	1275	A	O4'-C1'-N9	12.29	118.03	108.20
1	N	800	G	C5-C6-O6	-12.28	121.23	128.60
1	N	39	G	O4'-C1'-N9	12.28	118.03	108.20
1	N	444	G	N1-C6-O6	12.28	127.27	119.90
1	N	549	C	C2-N3-C4	12.27	126.04	119.90
1	N	1323	G	N1-C6-O6	12.27	127.26	119.90
1	N	1435	G	O4'-C1'-N9	12.26	118.01	108.20
1	N	1514	G	N1-C6-O6	12.26	127.25	119.90
1	N	1374	A	C5-C6-N1	-12.25	111.57	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	572	A	C8-N9-C4	-12.25	100.90	105.80
1	N	907	A	C5-N7-C8	12.25	110.02	103.90
1	N	1449	C	C6-N1-C2	-12.24	115.40	120.30
1	N	424	G	N1-C6-O6	12.24	127.24	119.90
1	N	1317	C	O4'-C1'-N1	12.24	117.99	108.20
1	N	1531	A	C5-C6-N1	-12.23	111.58	117.70
1	N	1517	G	C5-C6-O6	-12.23	121.26	128.60
1	N	431	A	C5-C6-N1	-12.21	111.60	117.70
1	N	1488	G	C5-C6-O6	-12.21	121.28	128.60
1	N	1004	A	C8-N9-C4	-12.20	100.92	105.80
1	N	711	G	N1-C6-O6	12.20	127.22	119.90
1	N	899	C	N3-C4-C5	-12.19	117.02	121.90
1	N	1048	G	N1-C6-O6	12.19	127.21	119.90
1	N	1113	C	O4'-C1'-N1	12.19	117.95	108.20
1	N	256	U	O4'-C1'-N1	12.19	117.95	108.20
1	N	465	A	N1-C6-N6	12.19	125.91	118.60
1	N	110	C	O4'-C1'-N1	12.18	117.95	108.20
1	N	274	A	P-O3'-C3'	12.18	134.32	119.70
1	N	369	G	N1-C6-O6	12.16	127.20	119.90
1	N	535	A	N1-C6-N6	12.15	125.89	118.60
1	N	1379	G	C5-C6-O6	-12.15	121.31	128.60
1	N	587	G	N1-C6-O6	12.15	127.19	119.90
1	N	809	G	N1-C6-O6	12.15	127.19	119.90
1	N	153	C	O4'-C1'-N1	12.14	117.91	108.20
1	N	206	C	N3-C4-C5	-12.14	117.04	121.90
1	N	736	C	O4'-C1'-N1	12.14	117.91	108.20
1	N	1525	G	N1-C6-O6	12.14	127.18	119.90
1	N	45	G	O4'-C1'-N9	12.13	117.91	108.20
1	N	964	A	C5-C6-N1	-12.13	111.63	117.70
1	N	362	G	O4'-C1'-N9	12.13	117.91	108.20
1	N	175	C	O4'-C1'-N1	12.12	117.90	108.20
1	N	575	G	C5-C6-N1	-12.12	105.44	111.50
1	N	224	U	N3-C4-C5	-12.12	107.33	114.60
1	N	613	C	O4'-C1'-N1	12.12	117.89	108.20
1	N	760	G	O4'-C1'-N9	12.11	117.89	108.20
1	N	902	G	N1-C6-O6	12.10	127.16	119.90
1	N	533	A	P-O3'-C3'	12.10	134.22	119.70
1	N	967	C	O4'-C1'-N1	12.10	117.88	108.20
1	N	1480	A	N1-C6-N6	12.10	125.86	118.60
1	N	12	U	N1-C2-N3	-12.09	107.64	114.90
1	N	893	C	C6-N1-C2	-12.09	115.46	120.30
1	N	1417	G	N1-C6-O6	12.08	127.15	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	924	C	C5-C4-N4	-12.08	111.74	120.20
1	N	1227	A	C4-C5-C6	12.08	123.04	117.00
1	N	192	A	N1-C6-N6	12.07	125.84	118.60
1	N	1057	G	N1-C6-O6	12.07	127.14	119.90
1	N	73	C	N3-C4-C5	-12.06	117.08	121.90
1	N	580	C	N3-C4-N4	12.06	126.44	118.00
1	N	606	G	O4'-C1'-N9	12.06	117.85	108.20
1	N	1033	G	N1-C6-O6	12.06	127.14	119.90
1	N	656	G	C3'-C2'-C1'	12.06	111.15	101.50
1	N	683	G	N3-C2-N2	12.05	128.34	119.90
1	N	573	A	C5-C6-N1	-12.04	111.68	117.70
1	N	1157	A	C2-N3-C4	-12.04	104.58	110.60
1	N	484	G	C6-C5-N7	-12.04	123.17	130.40
1	N	1157	A	N1-C2-N3	12.04	135.32	129.30
1	N	120	A	O4'-C1'-N9	12.04	117.83	108.20
1	N	338	A	C6-C5-N7	-12.04	123.88	132.30
1	N	196	A	N1-C6-N6	12.03	125.82	118.60
1	N	993	G	N1-C6-O6	12.03	127.12	119.90
1	N	278	G	N9-C4-C5	-12.02	100.59	105.40
1	N	99	C	O4'-C1'-N1	12.02	117.82	108.20
1	N	696	A	N1-C6-N6	12.02	125.81	118.60
1	N	1163	A	N1-C6-N6	12.01	125.81	118.60
1	N	573	A	C5-C6-N6	-12.01	114.09	123.70
1	N	1169	A	C4-C5-C6	12.00	123.00	117.00
1	N	414	A	O4'-C1'-N9	12.00	117.80	108.20
1	N	100	G	C4-C5-N7	-11.99	106.00	110.80
1	N	1082	A	C4-C5-C6	11.99	122.99	117.00
1	N	194	C	O4'-C1'-N1	11.98	117.79	108.20
1	N	1222	G	C6-N1-C2	11.98	132.29	125.10
1	N	1362	A	N1-C6-N6	11.98	125.79	118.60
1	N	108	G	C4-C5-N7	-11.97	106.01	110.80
1	N	149	A	C5-C6-N1	-11.97	111.71	117.70
1	N	190	A	N1-C6-N6	11.97	125.78	118.60
1	N	1088	G	C5-C6-O6	-11.97	121.42	128.60
1	N	298	A	N1-C6-N6	11.96	125.78	118.60
1	N	268	U	O4'-C1'-N1	11.96	117.77	108.20
1	N	1462	C	O4'-C1'-N1	11.96	117.77	108.20
1	N	1004	A	C5-C6-N1	-11.96	111.72	117.70
1	N	500	G	O4'-C1'-N9	11.95	117.76	108.20
1	N	9	G	N1-C6-O6	11.95	127.07	119.90
1	N	687	A	C5-C6-N1	-11.95	111.73	117.70
1	N	94	G	N7-C8-N9	-11.94	107.13	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1271	A	C5-C6-N1	-11.94	111.73	117.70
1	N	776	G	P-O5'-C5'	11.93	140.00	120.90
1	N	265	G	N1-C6-O6	11.93	127.06	119.90
1	N	739	C	C6-N1-C2	-11.93	115.53	120.30
1	N	485	U	O4'-C1'-N1	11.93	117.74	108.20
1	N	991	U	O4'-C1'-N1	11.92	117.74	108.20
1	N	1432	G	N1-C6-O6	11.92	127.05	119.90
1	N	401	C	O4'-C1'-N1	11.91	117.73	108.20
1	N	505	G	O4'-C1'-N9	11.91	117.72	108.20
1	N	267	C	N3-C4-C5	-11.90	117.14	121.90
1	N	1409	C	N3-C4-N4	11.90	126.33	118.00
1	N	507	C	C2-N3-C4	11.90	125.85	119.90
1	N	572	A	N9-C4-C5	11.89	110.56	105.80
1	N	99	C	N3-C4-C5	-11.89	117.15	121.90
1	N	480	U	O4'-C1'-N1	11.88	117.71	108.20
1	N	559	A	C5-C6-N1	-11.88	111.76	117.70
1	N	811	C	C6-N1-C2	-11.88	115.55	120.30
1	N	1505	G	N1-C2-N3	-11.87	116.78	123.90
1	N	408	A	N1-C6-N6	11.87	125.72	118.60
1	N	1241	G	C6-C5-N7	-11.86	123.28	130.40
1	N	668	G	O4'-C1'-N9	11.83	117.66	108.20
1	N	1128	C	N3-C4-C5	-11.83	117.17	121.90
1	N	316	C	C5'-C4'-C3'	-11.82	97.08	116.00
1	N	736	C	N3-C4-C5	-11.82	117.17	121.90
1	N	930	C	P-O3'-C3'	11.80	133.86	119.70
1	N	1049	U	P-O3'-C3'	11.80	133.86	119.70
1	N	847	G	C5-C6-O6	-11.80	121.52	128.60
1	N	1172	C	C5-C4-N4	-11.80	111.94	120.20
1	N	895	G	P-O5'-C5'	11.79	139.76	120.90
1	N	270	A	C5-C6-N6	-11.78	114.28	123.70
1	N	313	A	N7-C8-N9	11.78	119.69	113.80
1	N	1306	A	N1-C2-N3	11.78	135.19	129.30
1	N	1086	U	C5'-C4'-C3'	-11.77	97.16	116.00
1	N	107	G	C5-N7-C8	11.77	110.19	104.30
1	N	777	A	C5-C6-N6	-11.77	114.29	123.70
1	N	885	G	N1-C6-O6	11.76	126.96	119.90
1	N	21	G	N1-C2-N3	-11.76	116.84	123.90
1	N	888	G	N1-C6-O6	11.75	126.95	119.90
1	N	74	A	C5-C6-N6	-11.75	114.30	123.70
1	N	1430	A	N1-C6-N6	11.75	125.65	118.60
1	N	1144	G	N1-C6-O6	11.75	126.95	119.90
1	N	1226	C	P-O3'-C3'	11.75	133.80	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	288	A	N1-C6-N6	11.74	125.65	118.60
1	N	115	G	P-O3'-C3'	11.74	133.79	119.70
1	N	202	G	N7-C8-N9	-11.74	107.23	113.10
1	N	309	A	C5-C6-N6	-11.74	114.31	123.70
1	N	1103	C	N3-C4-C5	-11.73	117.21	121.90
1	N	201	G	N1-C6-O6	11.73	126.94	119.90
1	N	221	C	N3-C4-C5	-11.73	117.21	121.90
1	N	592	G	N3-C4-C5	11.73	134.46	128.60
1	N	1407	C	C5-C6-N1	11.72	126.86	121.00
1	N	673	A	N1-C6-N6	11.72	125.63	118.60
1	N	533	A	N1-C6-N6	11.71	125.63	118.60
1	N	93	U	O4'-C1'-N1	11.71	117.57	108.20
1	N	1433	A	O4'-C1'-N9	11.71	117.57	108.20
1	N	336	A	C5-N7-C8	11.71	109.75	103.90
1	N	928	G	N1-C6-O6	11.70	126.92	119.90
1	N	942	G	C5-C6-O6	-11.70	121.58	128.60
1	N	673	A	C5-C6-N6	-11.70	114.34	123.70
1	N	862	C	N3-C4-C5	-11.69	117.22	121.90
1	N	160	A	O4'-C1'-N9	11.69	117.55	108.20
1	N	713	G	N1-C6-O6	11.69	126.91	119.90
1	N	1037	C	O4'-C1'-N1	11.69	117.55	108.20
1	N	1145	A	C5-C6-N6	-11.69	114.35	123.70
1	N	1352	C	C4-C5-C6	-11.68	111.56	117.40
1	N	537	G	C5-C6-N1	-11.67	105.66	111.50
1	N	1397	C	N3-C4-N4	11.67	126.17	118.00
1	N	87	C	O4'-C1'-N1	11.67	117.54	108.20
1	N	873	A	C5-C6-N1	-11.67	111.87	117.70
1	N	1284	C	O4'-C1'-N1	11.66	117.53	108.20
1	N	21	G	N3-C4-C5	-11.65	122.78	128.60
1	N	169	C	O4'-C1'-N1	11.64	117.52	108.20
1	N	382	A	N1-C6-N6	11.64	125.59	118.60
1	N	1387	G	C5-C6-O6	-11.64	121.61	128.60
1	N	1473	G	C8-N9-C4	11.64	111.06	106.40
1	N	136	C	O4'-C1'-N1	11.63	117.50	108.20
1	N	1012	A	N1-C6-N6	11.63	125.58	118.60
1	N	841	C	C2-N1-C1'	11.62	131.59	118.80
1	N	1196	A	C5-C6-N1	-11.63	111.89	117.70
1	N	279	A	O4'-C1'-N9	11.62	117.50	108.20
1	N	1007	U	O4'-C1'-N1	11.61	117.49	108.20
1	N	362	G	C2-N3-C4	11.61	117.71	111.90
1	N	198	G	C3'-C2'-C1'	11.61	110.79	101.50
1	N	682	G	C5-C6-N1	-11.61	105.69	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	63	C	C6-N1-C1'	-11.61	106.87	120.80
1	N	72	A	N1-C6-N6	11.61	125.56	118.60
1	N	757	U	C6-N1-C2	-11.61	114.04	121.00
1	N	289	G	C5-C6-O6	-11.60	121.64	128.60
1	N	109	A	P-O3'-C3'	11.60	133.62	119.70
1	N	1413	A	C5-C6-N1	-11.60	111.90	117.70
1	N	1127	G	P-O5'-C5'	11.60	139.46	120.90
1	N	338	A	C5-C6-N1	-11.60	111.90	117.70
1	N	735	C	N3-C4-C5	-11.60	117.26	121.90
1	N	1349	A	C5-N7-C8	11.59	109.69	103.90
1	N	69	G	C5-C6-O6	-11.59	121.65	128.60
1	N	195	A	N1-C2-N3	11.58	135.09	129.30
1	N	1190	G	N1-C6-O6	11.58	126.85	119.90
1	N	79	G	N1-C6-O6	11.58	126.85	119.90
1	N	528	C	N3-C4-N4	11.58	126.10	118.00
1	N	34	C	C6-N1-C2	11.57	124.93	120.30
1	N	1213	A	N1-C6-N6	11.57	125.54	118.60
1	N	532	A	O4'-C1'-N9	11.57	117.46	108.20
1	N	1396	A	C4-C5-N7	-11.57	104.92	110.70
1	N	174	A	N1-C6-N6	11.56	125.54	118.60
1	N	1133	G	N1-C6-O6	11.56	126.84	119.90
1	N	277	C	P-O3'-C3'	11.56	133.57	119.70
1	N	815	A	N1-C6-N6	11.56	125.53	118.60
1	N	327	A	P-O3'-C3'	11.55	133.56	119.70
1	N	825	A	C5-C6-N6	-11.55	114.46	123.70
1	N	1251	A	C5-N7-C8	11.55	109.67	103.90
1	N	1467	C	N3-C4-N4	11.55	126.08	118.00
1	N	164	G	N1-C6-O6	11.54	126.83	119.90
1	N	514	C	N3-C4-N4	11.53	126.07	118.00
1	N	1011	C	N3-C4-N4	11.53	126.07	118.00
1	N	1172	C	C2-N3-C4	11.53	125.67	119.90
1	N	536	C	N3-C4-N4	11.53	126.07	118.00
1	N	1497	G	N1-C2-N2	11.53	126.58	116.20
1	N	116	A	N1-C6-N6	11.52	125.51	118.60
1	N	656	G	O4'-C1'-N9	11.52	117.42	108.20
1	N	926	G	C5'-C4'-C3'	11.52	134.43	116.00
1	N	484	G	N9-C4-C5	-11.52	100.79	105.40
1	N	271	C	C5-C4-N4	-11.51	112.14	120.20
1	N	934	C	N3-C4-C5	-11.51	117.30	121.90
1	N	144	G	N3-C2-N2	11.51	127.96	119.90
1	N	262	A	C5-C6-N1	-11.51	111.94	117.70
1	N	1183	U	C5-C4-O4	-11.51	119.00	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	422	C	O4'-C1'-N1	11.51	117.41	108.20
1	N	18	C	O4'-C1'-N1	11.49	117.40	108.20
1	N	1160	G	O4'-C1'-N9	11.49	117.40	108.20
1	N	1158	C	C2-N1-C1'	11.49	131.44	118.80
1	N	389	A	C4-C5-C6	11.49	122.75	117.00
1	N	1181	G	N1-C2-N3	-11.49	117.00	123.90
1	N	33	A	C4-C5-N7	-11.49	104.96	110.70
1	N	831	A	N7-C8-N9	11.49	119.54	113.80
1	N	1241	G	C5-C6-N1	-11.49	105.76	111.50
1	N	1203	C	O4'-C1'-N1	11.48	117.39	108.20
1	N	98	A	N1-C6-N6	11.48	125.49	118.60
1	N	33	A	N1-C6-N6	11.48	125.49	118.60
1	N	1401	G	N3-C2-N2	11.48	127.94	119.90
1	N	159	G	N3-C2-N2	11.48	127.93	119.90
1	N	215	C	C2-N3-C4	11.47	125.64	119.90
1	N	514	C	N3-C4-C5	-11.47	117.31	121.90
1	N	1251	A	N1-C6-N6	11.47	125.48	118.60
1	N	996	A	C4-C5-C6	11.47	122.74	117.00
1	N	533	A	C4-C5-C6	11.47	122.73	117.00
1	N	1349	A	N1-C6-N6	11.47	125.48	118.60
1	N	1197	A	P-O5'-C5'	11.47	139.25	120.90
1	N	679	C	C2-N3-C4	11.46	125.63	119.90
1	N	121	U	O4'-C1'-N1	11.46	117.37	108.20
1	N	1283	U	C6-N1-C2	-11.46	114.12	121.00
1	N	509	A	C5-C6-N6	-11.45	114.54	123.70
1	N	1344	C	O4'-C1'-N1	11.45	117.36	108.20
1	N	530	G	P-O3'-C3'	11.44	133.43	119.70
1	N	977	A	N9-C4-C5	-11.44	101.22	105.80
1	N	1502	A	P-O3'-C3'	11.44	133.42	119.70
1	N	457	G	N1-C2-N3	-11.43	117.04	123.90
1	N	526	C	C6-N1-C2	-11.43	115.73	120.30
1	N	627	G	N1-C6-O6	11.43	126.76	119.90
1	N	928	G	C5-C6-O6	-11.43	121.74	128.60
1	N	154	U	P-O3'-C3'	-11.43	105.99	119.70
1	N	911	U	N1-C2-O2	-11.43	114.80	122.80
1	N	507	C	N3-C4-N4	11.42	126.00	118.00
1	N	270	A	C5-C6-N1	-11.42	111.99	117.70
1	N	666	G	N1-C6-O6	11.42	126.75	119.90
1	N	692	U	C5-C6-N1	11.42	128.41	122.70
1	N	1368	A	C5-C6-N1	-11.41	112.00	117.70
1	N	594	U	N3-C4-O4	11.41	127.39	119.40
1	N	83	C	O4'-C1'-N1	11.40	117.32	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	196	A	C5-C6-N1	-11.40	112.00	117.70
1	N	1478	U	O4'-C1'-N1	11.40	117.32	108.20
1	N	242	G	C5-C6-O6	-11.40	121.76	128.60
1	N	646	G	N1-C6-O6	11.39	126.74	119.90
1	N	1302	C	N3-C4-N4	11.39	125.98	118.00
1	N	1208	C	N3-C4-C5	-11.39	117.34	121.90
1	N	876	C	N3-C4-C5	-11.39	117.34	121.90
1	N	41	G	C2-N3-C4	11.38	117.59	111.90
1	N	310	G	C5-C6-O6	-11.38	121.77	128.60
1	N	542	G	C5-C6-O6	-11.38	121.77	128.60
1	N	59	A	N1-C6-N6	11.38	125.43	118.60
1	N	1396	A	C2-N3-C4	-11.38	104.91	110.60
1	N	251	G	N1-C6-O6	11.37	126.72	119.90
1	N	812	G	P-O3'-C3'	11.37	133.34	119.70
1	N	838	G	N1-C6-O6	11.37	126.72	119.90
1	N	1243	C	P-O5'-C5'	11.36	139.08	120.90
1	N	985	C	C5-C4-N4	-11.36	112.25	120.20
1	N	221	C	C6-N1-C2	-11.36	115.76	120.30
1	N	94	G	N1-C6-O6	11.35	126.71	119.90
1	N	717	U	N3-C4-O4	11.35	127.34	119.40
1	N	1098	C	O4'-C1'-N1	11.35	117.28	108.20
1	N	956	U	O4'-C1'-N1	11.35	117.28	108.20
1	N	728	A	C4-C5-C6	11.34	122.67	117.00
1	N	781	A	C4-C5-C6	11.34	122.67	117.00
1	N	1473	G	C5-C6-N1	-11.34	105.83	111.50
1	N	1488	G	N1-C6-O6	11.33	126.70	119.90
1	N	1096	C	N3-C4-N4	11.33	125.93	118.00
1	N	895	G	C8-N9-C4	11.32	110.93	106.40
1	N	484	G	N3-C4-C5	11.31	134.26	128.60
1	N	1514	G	C6-C5-N7	-11.31	123.61	130.40
1	N	199	A	P-O5'-C5'	11.31	138.99	120.90
1	N	1197	A	N1-C6-N6	11.31	125.38	118.60
1	N	1285	A	C8-N9-C4	-11.31	101.28	105.80
1	N	714	G	N3-C2-N2	11.30	127.81	119.90
1	N	819	A	N1-C6-N6	11.30	125.38	118.60
1	N	347	G	C8-N9-C4	-11.30	101.88	106.40
1	N	545	C	N3-C4-C5	-11.30	117.38	121.90
1	N	1231	G	N1-C6-O6	11.30	126.68	119.90
1	N	880	C	C5-C6-N1	11.30	126.65	121.00
1	N	702	A	C4-C5-C6	11.29	122.65	117.00
1	N	886	G	N9-C4-C5	11.29	109.92	105.40
1	N	35	G	O4'-C1'-N9	11.29	117.23	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	515	G	P-O5'-C5'	11.28	138.95	120.90
1	N	1248	A	C5-C6-N1	-11.28	112.06	117.70
1	N	1397	C	C5-C6-N1	11.28	126.64	121.00
1	N	1400	C	O4'-C1'-N1	11.28	117.22	108.20
1	N	199	A	C8-N9-C4	-11.28	101.29	105.80
1	N	238	A	C5-C6-N6	-11.28	114.68	123.70
1	N	446	G	C5-C6-O6	-11.28	121.83	128.60
1	N	156	C	O4'-C1'-N1	11.27	117.22	108.20
1	N	58	C	O4'-C1'-N1	11.27	117.22	108.20
1	N	1494	G	C5-C6-O6	-11.27	121.84	128.60
1	N	617	G	C5-C6-O6	-11.26	121.84	128.60
1	N	1475	G	C5-C6-N1	-11.26	105.87	111.50
1	N	848	C	P-O3'-C3'	11.26	133.22	119.70
1	N	979	C	O4'-C1'-N1	11.26	117.21	108.20
1	N	1101	A	O4'-C1'-N9	11.25	117.20	108.20
1	N	564	C	C5-C6-N1	11.25	126.62	121.00
1	N	609	A	C5-C6-N1	-11.25	112.08	117.70
1	N	1331	G	N1-C6-O6	11.25	126.65	119.90
1	N	18	C	N3-C4-N4	11.24	125.87	118.00
1	N	1293	C	N3-C4-N4	11.24	125.87	118.00
1	N	101	A	N1-C6-N6	11.24	125.34	118.60
1	N	199	A	C5-C6-N1	-11.24	112.08	117.70
1	N	275	G	C5-C6-O6	-11.24	121.86	128.60
1	N	758	C	N3-C4-C5	-11.24	117.41	121.90
1	N	958	A	C4-C5-C6	11.24	122.62	117.00
1	N	985	C	P-O5'-C5'	11.23	138.88	120.90
1	N	1217	C	C5-C6-N1	11.23	126.61	121.00
1	N	1256	A	C5-C6-N1	-11.23	112.08	117.70
1	N	705	G	N1-C2-N3	-11.22	117.17	123.90
1	N	497	G	C5-C6-O6	-11.21	121.87	128.60
1	N	198	G	C5-C6-O6	-11.20	121.88	128.60
1	N	1050	G	O4'-C1'-N9	11.20	117.16	108.20
1	N	1071	C	C5-C6-N1	11.20	126.60	121.00
1	N	1386	G	N9-C4-C5	11.19	109.88	105.40
1	N	1512	U	O4'-C1'-N1	11.19	117.15	108.20
1	N	1006	G	N1-C6-O6	11.19	126.61	119.90
1	N	264	C	P-O3'-C3'	11.19	133.12	119.70
1	N	995	C	N3-C4-N4	11.18	125.83	118.00
1	N	3	A	N1-C2-N3	11.18	134.89	129.30
1	N	346	G	N7-C8-N9	-11.18	107.51	113.10
1	N	350	G	N7-C8-N9	11.18	118.69	113.10
1	N	728	A	C5-C6-N1	-11.17	112.11	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1503	A	C2-N3-C4	-11.17	105.01	110.60
1	N	1004	A	C2-N3-C4	-11.17	105.02	110.60
1	N	373	A	P-O5'-C5'	-11.16	103.04	120.90
1	N	843	U	C5-C4-O4	-11.16	119.20	125.90
1	N	1272	G	C5-C6-O6	-11.16	121.90	128.60
1	N	790	A	C5-C6-N6	-11.16	114.77	123.70
1	N	239	U	O4'-C1'-N1	11.16	117.13	108.20
1	N	617	G	C6-C5-N7	-11.16	123.70	130.40
1	N	995	C	C5-C4-N4	-11.16	112.39	120.20
1	N	672	U	O4'-C1'-N1	11.15	117.12	108.20
1	N	1169	A	C5-C6-N1	-11.14	112.13	117.70
1	N	413	G	N1-C2-N3	-11.13	117.22	123.90
1	N	373	A	N1-C6-N6	11.13	125.28	118.60
1	N	179	A	N1-C6-N6	11.13	125.28	118.60
1	N	1038	C	N3-C4-C5	-11.13	117.45	121.90
1	N	239	U	N1-C2-O2	-11.13	115.01	122.80
1	N	520	A	C4-C5-C6	11.12	122.56	117.00
1	N	1198	G	N1-C6-O6	11.12	126.57	119.90
1	N	724	G	O4'-C1'-N9	11.11	117.09	108.20
1	N	1198	G	C5-C6-O6	-11.11	121.94	128.60
1	N	955	U	O4'-C1'-N1	11.11	117.08	108.20
1	N	1145	A	N9-C4-C5	11.10	110.24	105.80
1	N	1325	C	O4'-C1'-N1	11.10	117.08	108.20
1	N	1102	A	C4-C5-C6	11.10	122.55	117.00
1	N	1245	C	N3-C4-C5	-11.10	117.46	121.90
1	N	702	A	O4'-C1'-N9	11.09	117.08	108.20
1	N	1307	U	O4'-C1'-N1	11.09	117.08	108.20
1	N	1418	A	N1-C6-N6	11.09	125.25	118.60
1	N	1394	A	C5-C6-N6	-11.09	114.83	123.70
1	N	653	U	O4'-C1'-N1	11.08	117.07	108.20
1	N	103	U	C5-C6-N1	11.08	128.24	122.70
1	N	1341	U	P-O3'-C3'	11.07	132.99	119.70
1	N	130	A	C6-N1-C2	11.07	125.24	118.60
1	N	1020	G	C5-C6-O6	-11.07	121.96	128.60
1	N	1071	C	O4'-C1'-N1	11.07	117.06	108.20
1	N	1274	A	P-O5'-C5'	11.07	138.61	120.90
1	N	324	G	O4'-C1'-N9	11.07	117.05	108.20
1	N	892	A	C4-C5-C6	11.07	122.53	117.00
1	N	424	G	C5-C6-N1	-11.06	105.97	111.50
1	N	840	C	N3-C2-O2	-11.06	114.15	121.90
1	N	414	A	C2-N3-C4	-11.06	105.07	110.60
1	N	606	G	N3-C2-N2	11.06	127.64	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1319	A	C5-C6-N1	-11.06	112.17	117.70
1	N	312	C	C2-N3-C4	11.06	125.43	119.90
1	N	1491	G	C5-C6-O6	-11.06	121.97	128.60
1	N	1531	A	N1-C6-N6	11.05	125.23	118.60
1	N	26	A	O4'-C1'-N9	11.05	117.04	108.20
1	N	866	C	N3-C4-N4	11.04	125.73	118.00
1	N	244	U	C5-C6-N1	-11.04	117.18	122.70
1	N	130	A	C5-C6-N6	-11.03	114.87	123.70
1	N	668	G	C6-C5-N7	-11.03	123.78	130.40
1	N	94	G	C5-C6-O6	-11.03	121.98	128.60
1	N	351	G	C2-N3-C4	11.03	117.41	111.90
1	N	1206	G	C6-C5-N7	-11.02	123.79	130.40
1	N	3	A	N1-C6-N6	11.02	125.21	118.60
1	N	791	G	N1-C2-N3	-11.02	117.29	123.90
1	N	1174	G	C5-C6-O6	-11.01	122.00	128.60
1	N	961	U	O4'-C1'-N1	11.01	117.00	108.20
1	N	547	A	C8-N9-C4	-11.00	101.40	105.80
1	N	1261	A	C5-C6-N6	-11.00	114.90	123.70
1	N	1482	G	N1-C6-O6	11.00	126.50	119.90
1	N	866	C	P-O3'-C3'	11.00	132.90	119.70
1	N	988	G	O4'-C1'-N9	11.00	117.00	108.20
1	N	407	U	N3-C4-C5	-10.99	108.00	114.60
1	N	554	A	O4'-C1'-N9	10.99	117.00	108.20
1	N	703	G	N1-C6-O6	10.99	126.50	119.90
1	N	796	C	C5-C4-N4	-10.99	112.50	120.20
1	N	668	G	C5-C6-N1	-10.99	106.00	111.50
1	N	587	G	C5-C6-O6	-10.99	122.01	128.60
1	N	1112	C	N3-C4-N4	10.99	125.69	118.00
1	N	235	C	N3-C4-N4	10.98	125.69	118.00
1	N	1032	G	C5-C6-O6	-10.98	122.01	128.60
1	N	1123	U	C5-C4-O4	-10.98	119.31	125.90
1	N	1149	C	C6-N1-C2	-10.97	115.91	120.30
1	N	780	A	C8-N9-C4	-10.97	101.41	105.80
1	N	419	C	C6-N1-C2	-10.97	115.91	120.30
1	N	1026	G	N1-C2-N3	-10.96	117.32	123.90
1	N	718	A	C5-C6-N1	-10.96	112.22	117.70
1	N	796	C	N3-C4-N4	10.96	125.67	118.00
1	N	1305	G	N1-C6-O6	10.96	126.47	119.90
1	N	1409	C	O4'-C1'-N1	10.96	116.97	108.20
1	N	1235	U	O4'-C1'-N1	10.96	116.97	108.20
1	N	1231	G	C5-C6-O6	-10.95	122.03	128.60
1	N	18	C	C5-C4-N4	-10.95	112.53	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1166	G	C6-N1-C2	10.95	131.67	125.10
1	N	862	C	O4'-C1'-N1	10.95	116.96	108.20
1	N	392	C	C5-C4-N4	-10.93	112.55	120.20
1	N	1357	A	N1-C2-N3	10.93	134.77	129.30
1	N	54	C	N3-C4-N4	10.92	125.64	118.00
1	N	1300	G	N1-C6-O6	10.92	126.45	119.90
1	N	159	G	N1-C2-N3	-10.92	117.35	123.90
1	N	91	U	N1-C2-O2	10.92	130.44	122.80
1	N	600	A	N1-C6-N6	10.92	125.15	118.60
1	N	847	G	N1-C6-O6	10.92	126.45	119.90
1	N	966	G	N1-C6-O6	10.92	126.45	119.90
1	N	343	U	P-O3'-C3'	10.91	132.79	119.70
1	N	1160	G	N1-C6-O6	10.91	126.44	119.90
1	N	246	A	C8-N9-C4	-10.91	101.44	105.80
1	N	239	U	C6-N1-C2	-10.91	114.46	121.00
1	N	1138	G	P-O3'-C3'	10.91	132.79	119.70
1	N	578	C	C5-C4-N4	-10.90	112.57	120.20
1	N	199	A	C2-N3-C4	-10.90	105.15	110.60
1	N	557	G	N1-C6-O6	10.90	126.44	119.90
1	N	1469	C	O4'-C1'-N1	10.90	116.92	108.20
1	N	388	G	O4'-C1'-N9	10.90	116.92	108.20
1	N	1217	C	C6-N1-C2	-10.90	115.94	120.30
1	N	103	U	O4'-C1'-N1	10.89	116.91	108.20
1	N	994	A	C5-C6-N6	-10.89	114.98	123.70
1	N	1180	A	C5-C6-N6	-10.89	114.98	123.70
1	N	377	G	N1-C6-O6	10.89	126.44	119.90
1	N	1126	U	N3-C2-O2	-10.89	114.58	122.20
1	N	932	C	N3-C4-C5	-10.89	117.55	121.90
1	N	995	C	P-O3'-C3'	-10.88	106.64	119.70
1	N	1156	G	N7-C8-N9	-10.88	107.66	113.10
1	N	1252	A	O4'-C1'-N9	10.88	116.91	108.20
1	N	894	G	N3-C2-N2	10.88	127.52	119.90
1	N	597	G	O4'-C1'-N9	10.88	116.90	108.20
1	N	178	C	C5-C6-N1	10.88	126.44	121.00
1	N	1048	G	N3-C2-N2	10.87	127.51	119.90
1	N	15	G	N1-C6-O6	10.87	126.42	119.90
1	N	296	U	C5-C4-O4	-10.87	119.38	125.90
1	N	634	C	O4'-C1'-N1	10.87	116.90	108.20
1	N	1292	G	C4-C5-N7	-10.87	106.45	110.80
1	N	1038	C	N3-C4-N4	10.87	125.61	118.00
1	N	1054	C	N3-C4-C5	-10.86	117.56	121.90
1	N	787	A	C8-N9-C4	-10.86	101.46	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1140	C	O4'-C1'-N1	10.86	116.89	108.20
1	N	1271	A	C4-C5-C6	10.85	122.43	117.00
1	N	91	U	N1-C2-N3	-10.84	108.39	114.90
1	N	1508	A	O4'-C1'-N9	10.83	116.86	108.20
1	N	52	C	O4'-C1'-N1	10.83	116.86	108.20
1	N	1120	C	C6-N1-C2	-10.83	115.97	120.30
1	N	1226	C	C2-N3-C4	10.83	125.32	119.90
1	N	967	C	N1-C2-O2	-10.83	112.40	118.90
1	N	695	A	N1-C6-N6	10.82	125.09	118.60
1	N	1363	A	N1-C6-N6	10.82	125.09	118.60
1	N	410	G	N3-C2-N2	10.82	127.47	119.90
1	N	970	C	N3-C4-N4	10.81	125.57	118.00
1	N	507	C	O4'-C1'-N1	10.81	116.85	108.20
1	N	155	A	N9-C4-C5	10.80	110.12	105.80
1	N	322	C	C4-C5-C6	-10.81	112.00	117.40
1	N	1349	A	O4'-C1'-N9	10.80	116.84	108.20
1	N	53	A	C8-N9-C4	-10.80	101.48	105.80
1	N	508	U	O4'-C1'-N1	10.80	116.84	108.20
1	N	1051	C	O4'-C1'-N1	10.79	116.83	108.20
1	N	929	G	N1-C6-O6	10.79	126.37	119.90
1	N	925	G	N1-C6-O6	10.78	126.37	119.90
1	N	1265	C	N3-C4-C5	-10.79	117.59	121.90
1	N	1288	A	N1-C6-N6	10.79	125.07	118.60
1	N	1080	A	N9-C4-C5	10.78	110.11	105.80
1	N	1154	G	C5-C6-O6	-10.78	122.13	128.60
1	N	1518	A	N1-C6-N6	10.78	125.07	118.60
1	N	232	G	O4'-C1'-N9	10.78	116.82	108.20
1	N	806	C	O4'-C1'-N1	10.78	116.82	108.20
1	N	497	G	N9-C4-C5	-10.78	101.09	105.40
1	N	1525	G	C5-C6-N1	-10.78	106.11	111.50
1	N	226	G	N9-C4-C5	-10.77	101.09	105.40
1	N	129	A	P-O5'-C5'	10.77	138.13	120.90
1	N	1204	A	C5-C6-N6	-10.77	115.09	123.70
1	N	1248	A	C4-C5-C6	10.77	122.38	117.00
1	N	451	A	C5-C6-N6	-10.76	115.09	123.70
1	N	1166	G	N1-C2-N3	-10.76	117.44	123.90
1	N	75	G	C5-C6-N1	-10.76	106.12	111.50
1	N	83	C	N3-C4-C5	-10.76	117.60	121.90
1	N	516	U	O4'-C1'-N1	10.76	116.80	108.20
1	N	746	A	C5-C6-N6	-10.75	115.10	123.70
1	N	785	G	C5-N7-C8	-10.75	98.92	104.30
1	N	1510	C	N3-C4-N4	10.75	125.53	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	280	C	N3-C4-C5	-10.75	117.60	121.90
1	N	362	G	N1-C2-N3	-10.75	117.45	123.90
1	N	492	C	C2-N3-C4	10.75	125.27	119.90
1	N	1342	C	O4'-C1'-N1	10.74	116.80	108.20
1	N	33	A	N9-C4-C5	10.74	110.10	105.80
1	N	280	C	C4-C5-C6	10.74	122.77	117.40
1	N	1019	A	C5-C6-N6	-10.74	115.11	123.70
1	N	591	U	P-O5'-C5'	10.74	138.08	120.90
1	N	414	A	C4-C5-C6	10.73	122.37	117.00
1	N	408	A	N9-C4-C5	10.73	110.09	105.80
1	N	450	G	C5-C6-N1	-10.73	106.14	111.50
1	N	1442	G	N1-C6-O6	10.73	126.34	119.90
1	N	1355	G	N3-C4-N9	-10.72	119.56	126.00
1	N	1435	G	N1-C6-O6	10.72	126.33	119.90
1	N	1413	A	O4'-C1'-N9	10.72	116.77	108.20
1	N	11	G	C6-C5-N7	-10.72	123.97	130.40
1	N	429	U	O4'-C1'-N1	10.71	116.77	108.20
1	N	1098	C	N3-C4-N4	10.71	125.50	118.00
1	N	29	U	O4'-C1'-N1	10.71	116.77	108.20
1	N	772	U	O4'-C1'-N1	10.71	116.77	108.20
1	N	223	A	N1-C6-N6	10.70	125.02	118.60
1	N	687	A	C5-C6-N6	-10.71	115.14	123.70
1	N	348	G	C5-C6-O6	-10.70	122.18	128.60
1	N	223	A	P-O3'-C3'	-10.69	106.87	119.70
1	N	107	G	C5-C6-O6	-10.69	122.19	128.60
1	N	131	A	C5-C6-N1	-10.69	112.35	117.70
1	N	193	C	N3-C4-C5	-10.69	117.62	121.90
1	N	158	G	O4'-C1'-N9	10.69	116.75	108.20
1	N	1098	C	N3-C4-C5	-10.69	117.62	121.90
1	N	55	A	C5-N7-C8	10.69	109.24	103.90
1	N	780	A	N7-C8-N9	10.67	119.14	113.80
1	N	537	G	C4-C5-N7	-10.67	106.53	110.80
1	N	357	G	C8-N9-C4	-10.67	102.13	106.40
1	N	255	G	N1-C6-O6	10.67	126.30	119.90
1	N	152	A	N1-C6-N6	10.66	125.00	118.60
1	N	1476	A	C8-N9-C4	-10.66	101.54	105.80
1	N	75	G	C6-N1-C2	10.66	131.50	125.10
1	N	285	C	O4'-C1'-N1	10.66	116.72	108.20
1	N	1343	G	C5-C6-O6	-10.65	122.21	128.60
1	N	962	C	C6-N1-C2	-10.65	116.04	120.30
1	N	1209	C	N3-C4-N4	10.65	125.45	118.00
1	N	690	G	C6-C5-N7	-10.65	124.01	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	557	G	C5-C6-O6	-10.64	122.21	128.60
1	N	142	G	C5-C6-O6	-10.64	122.22	128.60
1	N	335	C	O4'-C1'-N1	10.64	116.71	108.20
1	N	102	G	C2-N3-C4	10.64	117.22	111.90
1	N	176	C	P-O5'-C5'	10.64	137.92	120.90
1	N	207	C	C5-C4-N4	-10.64	112.75	120.20
1	N	253	A	C4-C5-C6	10.63	122.32	117.00
1	N	856	C	N3-C4-C5	-10.62	117.65	121.90
1	N	1064	G	N1-C6-O6	10.62	126.27	119.90
1	N	1302	C	N3-C4-C5	-10.62	117.65	121.90
1	N	1485	U	O4'-C1'-N1	10.62	116.70	108.20
1	N	909	A	P-O5'-C5'	10.62	137.89	120.90
1	N	1230	C	P-O3'-C3'	10.62	132.44	119.70
1	N	75	G	N3-C2-N2	10.61	127.33	119.90
1	N	1256	A	N1-C6-N6	10.61	124.97	118.60
1	N	817	C	C5-C4-N4	-10.61	112.78	120.20
1	N	410	G	N9-C4-C5	-10.61	101.16	105.40
1	N	379	C	O4'-C1'-N1	10.60	116.68	108.20
1	N	1080	A	C8-N9-C4	-10.60	101.56	105.80
1	N	381	C	O4'-C1'-N1	10.60	116.68	108.20
1	N	777	A	C8-N9-C4	-10.60	101.56	105.80
1	N	1039	G	N9-C4-C5	10.60	109.64	105.40
1	N	120	A	N9-C4-C5	10.60	110.04	105.80
1	N	466	A	N1-C6-N6	10.60	124.96	118.60
1	N	1097	C	O4'-C1'-N1	10.59	116.67	108.20
1	N	723	U	C4'-C3'-C2'	-10.59	92.01	102.60
1	N	1030	U	O4'-C1'-N1	10.59	116.67	108.20
1	N	694	A	N1-C6-N6	10.59	124.95	118.60
1	N	767	A	N1-C6-N6	10.59	124.95	118.60
1	N	924	C	C6-N1-C2	10.59	124.53	120.30
1	N	203	G	N3-C2-N2	10.58	127.31	119.90
1	N	1347	G	N7-C8-N9	-10.57	107.81	113.10
1	N	963	G	O4'-C1'-N9	10.57	116.66	108.20
1	N	1095	U	O4'-C1'-N1	10.57	116.65	108.20
1	N	1332	A	C5-C6-N1	-10.57	112.42	117.70
1	N	1457	G	N1-C6-O6	10.56	126.24	119.90
1	N	655	A	C4-C5-C6	10.56	122.28	117.00
1	N	631	C	C2-N3-C4	10.56	125.18	119.90
1	N	1277	C	N3-C4-N4	10.55	125.39	118.00
1	N	541	G	C5-C6-O6	-10.55	122.27	128.60
1	N	780	A	C6-C5-N7	-10.55	124.92	132.30
1	N	1126	U	N3-C4-C5	-10.55	108.27	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1172	C	N3-C4-C5	-10.55	117.68	121.90
1	N	1025	U	N3-C2-O2	10.55	129.58	122.20
1	N	1412	C	C1'-O4'-C4'	-10.55	101.46	109.90
1	N	1427	C	O4'-C1'-N1	10.55	116.64	108.20
1	N	1140	C	N3-C4-C5	-10.53	117.69	121.90
1	N	38	G	O4'-C1'-N9	10.53	116.62	108.20
1	N	1014	A	C2-N3-C4	10.53	115.86	110.60
1	N	389	A	N1-C6-N6	10.52	124.91	118.60
1	N	391	G	O4'-C1'-N9	10.52	116.62	108.20
1	N	602	A	C5-C6-N6	-10.52	115.28	123.70
1	N	931	C	O4'-C1'-N1	10.52	116.62	108.20
1	N	114	U	O4'-C1'-N1	10.52	116.61	108.20
1	N	643	C	C2-N3-C4	10.52	125.16	119.90
1	N	1254	A	C8-N9-C4	-10.51	101.59	105.80
1	N	900	A	N1-C6-N6	10.51	124.91	118.60
1	N	187	G	C5-C6-N1	-10.51	106.25	111.50
1	N	278	G	N1-C6-O6	10.50	126.20	119.90
1	N	1065	U	O4'-C1'-N1	10.50	116.60	108.20
1	N	1242	G	N1-C6-O6	10.50	126.20	119.90
1	N	909	A	C4-C5-C6	10.49	122.25	117.00
1	N	1459	G	N9-C4-C5	-10.49	101.20	105.40
1	N	1483	A	C6-C5-N7	-10.49	124.96	132.30
1	N	1490	U	O4'-C1'-N1	10.49	116.59	108.20
1	N	477	C	P-O5'-C5'	10.48	137.68	120.90
1	N	680	C	C6-N1-C2	-10.48	116.11	120.30
1	N	898	G	N1-C6-O6	10.48	126.19	119.90
1	N	1202	U	O4'-C4'-C3'	-10.48	93.52	104.00
1	N	849	G	C5'-C4'-C3'	-10.48	99.24	116.00
1	N	1230	C	O4'-C1'-N1	10.48	116.58	108.20
1	N	1148	U	C2-N3-C4	-10.47	120.72	127.00
1	N	301	G	C5-C6-O6	-10.47	122.32	128.60
1	N	532	A	N1-C6-N6	10.47	124.88	118.60
1	N	235	C	C5-C4-N4	-10.47	112.87	120.20
1	N	721	G	C5-C6-O6	-10.46	122.32	128.60
1	N	559	A	C4'-C3'-C2'	10.46	113.06	102.60
1	N	845	A	O4'-C1'-N9	10.46	116.57	108.20
1	N	157	U	C5-C4-O4	-10.45	119.63	125.90
1	N	520	A	N9-C4-C5	10.46	109.98	105.80
1	N	1105	A	O4'-C1'-N9	10.45	116.56	108.20
1	N	1229	A	N1-C6-N6	10.45	124.87	118.60
1	N	718	A	C4-C5-C6	10.45	122.22	117.00
1	N	93	U	P-O3'-C3'	-10.44	107.17	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	900	A	C2-N3-C4	-10.44	105.38	110.60
1	N	1399	C	N3-C4-C5	-10.44	117.72	121.90
1	N	690	G	P-O5'-C5'	10.44	137.60	120.90
1	N	748	G	C5-N7-C8	10.44	109.52	104.30
1	N	889	A	C4-C5-C6	10.44	122.22	117.00
1	N	975	A	C4-C5-C6	10.44	122.22	117.00
1	N	1524	C	C2-N3-C4	-10.43	114.68	119.90
1	N	1101	A	N1-C6-N6	10.43	124.86	118.60
1	N	1094	G	C6-N1-C2	10.43	131.35	125.10
1	N	1306	A	N1-C6-N6	10.43	124.86	118.60
1	N	53	A	N9-C4-C5	10.42	109.97	105.80
1	N	315	A	N1-C6-N6	10.42	124.85	118.60
1	N	902	G	O4'-C1'-N9	10.42	116.54	108.20
1	N	1374	A	C6-C5-N7	-10.42	125.00	132.30
1	N	56	U	C6-N1-C2	-10.42	114.75	121.00
1	N	1124	G	N1-C6-O6	10.42	126.15	119.90
1	N	1376	U	O4'-C1'-N1	10.41	116.53	108.20
1	N	635	A	C4-C5-C6	10.41	122.21	117.00
1	N	247	G	N1-C2-N3	-10.41	117.65	123.90
1	N	310	G	N3-C2-N2	10.41	127.19	119.90
1	N	741	G	C8-N9-C4	-10.41	102.24	106.40
1	N	1413	A	C8-N9-C4	-10.41	101.64	105.80
1	N	460	A	C8-N9-C4	-10.41	101.64	105.80
1	N	1389	C	O4'-C1'-N1	10.40	116.52	108.20
1	N	578	C	C5-C6-N1	10.40	126.20	121.00
1	N	1340	A	C4-C5-C6	10.39	122.20	117.00
1	N	908	A	C8-N9-C4	-10.39	101.64	105.80
1	N	735	C	C6-N1-C2	-10.39	116.15	120.30
1	N	80	A	C8-N9-C4	-10.38	101.65	105.80
1	N	399	G	N1-C6-O6	10.38	126.13	119.90
1	N	938	A	C5-C6-N6	-10.38	115.39	123.70
1	N	1166	G	C8-N9-C4	-10.38	102.25	106.40
1	N	1156	G	N9-C4-C5	-10.37	101.25	105.40
1	N	1299	A	C2-N3-C4	-10.37	105.41	110.60
1	N	8	A	C8-N9-C4	10.37	109.95	105.80
1	N	89	U	O4'-C1'-N1	10.37	116.49	108.20
1	N	135	C	P-O5'-C5'	10.37	137.49	120.90
1	N	973	G	N1-C2-N3	-10.37	117.68	123.90
1	N	1225	A	C5-C6-N1	-10.37	112.52	117.70
1	N	117	G	C2-N3-C4	10.36	117.08	111.90
1	N	316	C	C5-C4-N4	-10.36	112.95	120.20
1	N	909	A	N1-C6-N6	10.36	124.82	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1045	C	O4'-C1'-N1	10.36	116.49	108.20
1	N	1094	G	C4-C5-N7	-10.36	106.66	110.80
1	N	633	G	P-O5'-C5'	10.36	137.47	120.90
1	N	912	C	N3-C4-C5	-10.36	117.76	121.90
1	N	1109	C	C5-C6-N1	10.36	126.18	121.00
1	N	1466	C	N3-C4-C5	-10.36	117.76	121.90
1	N	2	A	N1-C6-N6	10.35	124.81	118.60
1	N	276	G	N3-C2-N2	10.35	127.14	119.90
1	N	482	A	C5-N7-C8	10.35	109.07	103.90
1	N	208	U	P-O3'-C3'	10.35	132.11	119.70
1	N	358	U	O4'-C1'-N1	10.34	116.47	108.20
1	N	197	A	P-O3'-C3'	10.34	132.11	119.70
1	N	1289	A	C8-N9-C4	-10.34	101.66	105.80
1	N	857	C	N3-C4-N4	10.34	125.23	118.00
1	N	671	G	N1-C6-O6	10.33	126.10	119.90
1	N	1061	G	N3-C2-N2	10.33	127.13	119.90
1	N	21	G	P-O5'-C5'	10.33	137.43	120.90
1	N	894	G	N1-C6-O6	10.33	126.10	119.90
1	N	245	U	O4'-C1'-N1	10.33	116.46	108.20
1	N	428	G	N1-C6-O6	10.32	126.09	119.90
1	N	806	C	C6-N1-C2	-10.32	116.17	120.30
1	N	840	C	C2-N1-C1'	10.32	130.15	118.80
1	N	996	A	N1-C6-N6	10.32	124.79	118.60
1	N	1299	A	C5-C6-N1	-10.31	112.54	117.70
1	N	230	G	N3-C2-N2	10.31	127.12	119.90
1	N	794	A	N1-C6-N6	10.31	124.79	118.60
1	N	1227	A	C6-C5-N7	-10.31	125.08	132.30
1	N	477	C	N3-C4-N4	10.31	125.22	118.00
1	N	493	A	C6-N1-C2	-10.31	112.42	118.60
1	N	107	G	N7-C8-N9	-10.31	107.95	113.10
1	N	357	G	N3-C2-N2	10.31	127.11	119.90
1	N	611	C	O4'-C1'-N1	10.30	116.44	108.20
1	N	631	C	N3-C4-C5	-10.30	117.78	121.90
1	N	1394	A	O4'-C1'-N9	10.30	116.44	108.20
1	N	1466	C	O4'-C1'-N1	10.30	116.44	108.20
1	N	725	G	N3-C4-C5	10.29	133.75	128.60
1	N	1408	A	C5-N7-C8	10.29	109.05	103.90
1	N	262	A	C4-C5-C6	10.29	122.14	117.00
1	N	185	U	O4'-C1'-N1	10.29	116.43	108.20
1	N	770	C	O4'-C1'-N1	10.29	116.43	108.20
1	N	773	G	N1-C2-N3	-10.29	117.73	123.90
1	N	711	G	C6-N1-C2	10.28	131.27	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1050	G	C8-N9-C4	10.28	110.51	106.40
1	N	1398	A	O4'-C1'-N9	10.28	116.42	108.20
1	N	1006	G	O4'-C1'-N9	10.28	116.42	108.20
1	N	1124	G	C5-C6-O6	-10.28	122.43	128.60
1	N	1364	U	C5-C6-N1	10.28	127.84	122.70
1	N	536	C	O4'-C1'-N1	10.27	116.42	108.20
1	N	607	A	P-O5'-C5'	10.27	137.34	120.90
1	N	542	G	N1-C6-O6	10.27	126.06	119.90
1	N	1305	G	C5-C6-O6	-10.27	122.44	128.60
1	N	92	U	O4'-C1'-N1	10.26	116.41	108.20
1	N	428	G	C5-C6-O6	-10.26	122.44	128.60
1	N	556	C	C5-C6-N1	10.26	126.13	121.00
1	N	1028	C	O4'-C1'-N1	10.26	116.41	108.20
1	N	197	A	C8-N9-C4	-10.26	101.70	105.80
1	N	555	U	N3-C4-O4	10.26	126.58	119.40
1	N	973	G	N1-C6-O6	10.26	126.06	119.90
1	N	1082	A	C5-C6-N1	-10.26	112.57	117.70
1	N	358	U	P-O5'-C5'	10.26	137.31	120.90
1	N	1453	G	C5-C6-O6	-10.26	122.45	128.60
1	N	1422	G	N1-C6-O6	10.25	126.05	119.90
1	N	34	C	N3-C4-C5	-10.25	117.80	121.90
1	N	967	C	N1-C2-N3	10.25	126.37	119.20
1	N	922	G	N1-C6-O6	10.25	126.05	119.90
1	N	513	C	C5-C6-N1	10.24	126.12	121.00
1	N	540	G	O4'-C1'-N9	10.24	116.39	108.20
1	N	944	G	C8-N9-C4	10.24	110.50	106.40
1	N	630	A	P-O3'-C3'	10.24	131.99	119.70
1	N	1164	G	C6-C5-N7	-10.24	124.25	130.40
1	N	65	A	N1-C6-N6	10.24	124.74	118.60
1	N	1341	U	P-O5'-C5'	10.24	137.28	120.90
1	N	565	U	N3-C2-O2	10.24	129.37	122.20
1	N	889	A	C5-C6-N1	-10.24	112.58	117.70
1	N	1294	G	C5-C6-O6	-10.24	122.46	128.60
1	N	1368	A	C8-N9-C4	-10.23	101.71	105.80
1	N	484	G	O4'-C1'-N9	10.23	116.39	108.20
1	N	511	C	N3-C4-C5	-10.23	117.81	121.90
1	N	760	G	P-O5'-C5'	10.23	137.26	120.90
1	N	1171	A	C4-C5-C6	10.23	122.11	117.00
1	N	1224	U	O4'-C1'-N1	10.22	116.38	108.20
1	N	95	C	P-O5'-C5'	-10.22	104.55	120.90
1	N	112	G	C5-N7-C8	10.21	109.41	104.30
1	N	1326	U	O4'-C1'-N1	10.21	116.37	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	669	G	O4'-C1'-N9	10.21	116.37	108.20
1	N	1412	C	C6-N1-C2	-10.21	116.22	120.30
1	N	1430	A	C5-C6-N1	-10.21	112.60	117.70
1	N	879	C	O4'-C1'-N1	10.21	116.36	108.20
1	N	1384	C	C5-C6-N1	10.21	126.10	121.00
1	N	16	A	C5-C6-N1	-10.20	112.60	117.70
1	N	985	C	N3-C4-C5	-10.20	117.82	121.90
1	N	184	G	N3-C4-C5	-10.19	123.50	128.60
1	N	643	C	N3-C4-C5	-10.19	117.82	121.90
1	N	902	G	C6-C5-N7	-10.19	124.29	130.40
1	N	1181	G	C2-N3-C4	10.19	116.99	111.90
1	N	787	A	N9-C4-C5	10.19	109.87	105.80
1	N	927	G	N1-C6-O6	10.19	126.01	119.90
1	N	1472	U	O4'-C1'-N1	10.19	116.35	108.20
1	N	516	U	C2-N3-C4	-10.18	120.89	127.00
1	N	1050	G	C5'-C4'-C3'	-10.18	99.71	116.00
1	N	1020	G	N3-C2-N2	10.18	127.03	119.90
1	N	479	U	O4'-C1'-N1	10.18	116.34	108.20
1	N	760	G	C5-C6-O6	-10.18	122.49	128.60
1	N	393	A	C8-N9-C4	-10.17	101.73	105.80
1	N	559	A	C4-C5-C6	10.17	122.08	117.00
1	N	872	A	C5-C6-N1	-10.17	112.62	117.70
1	N	958	A	C5-C6-N1	-10.17	112.62	117.70
1	N	1156	G	C8-N9-C4	10.16	110.46	106.40
1	N	947	G	C4-C5-N7	10.15	114.86	110.80
1	N	435	A	N1-C6-N6	10.15	124.69	118.60
1	N	1039	G	O4'-C1'-N9	10.15	116.32	108.20
1	N	1055	A	N1-C6-N6	10.15	124.69	118.60
1	N	919	A	C5-C6-N6	-10.14	115.58	123.70
1	N	115	G	C5-C6-O6	-10.14	122.52	128.60
1	N	883	C	O4'-C1'-N1	10.14	116.31	108.20
1	N	1437	A	C5-C6-N1	-10.14	112.63	117.70
1	N	1200	C	C2-N3-C4	10.13	124.97	119.90
1	N	632	U	P-O3'-C3'	10.13	131.86	119.70
1	N	1055	A	C5-C6-N6	-10.13	115.59	123.70
1	N	284	C	N3-C4-N4	10.13	125.09	118.00
1	N	467	U	C2-N1-C1'	10.13	129.86	117.70
1	N	720	C	N3-C4-C5	-10.13	117.85	121.90
1	N	1151	A	C4-C5-C6	10.13	122.06	117.00
1	N	1142	G	C4-C5-C6	10.12	124.87	118.80
1	N	134	G	N1-C6-O6	10.12	125.97	119.90
1	N	2	A	C5-C6-N6	-10.12	115.60	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	120	A	P-O3'-C3'	10.12	131.84	119.70
1	N	1017	U	N3-C4-O4	10.12	126.48	119.40
1	N	329	A	N9-C4-C5	-10.12	101.75	105.80
1	N	845	A	C5-C6-N1	-10.12	112.64	117.70
1	N	637	C	O4'-C1'-N1	10.11	116.29	108.20
1	N	725	G	O4'-C1'-N9	10.11	116.29	108.20
1	N	1022	A	C4-C5-C6	10.11	122.06	117.00
1	N	1223	C	P-O3'-C3'	10.12	131.84	119.70
1	N	1513	A	C4-C5-C6	10.12	122.06	117.00
1	N	766	A	C6-N1-C2	-10.11	112.53	118.60
1	N	651	C	N3-C4-N4	10.11	125.08	118.00
1	N	273	U	C5-C4-O4	-10.11	119.83	125.90
1	N	392	C	O4'-C1'-N1	10.11	116.29	108.20
1	N	771	G	O4'-C1'-N9	10.10	116.28	108.20
1	N	935	A	N1-C6-N6	10.10	124.66	118.60
1	N	1288	A	C8-N9-C4	-10.10	101.76	105.80
1	N	198	G	N3-C4-C5	10.10	133.65	128.60
1	N	861	G	C5-C6-N1	-10.10	106.45	111.50
1	N	906	A	C4-C5-N7	-10.10	105.65	110.70
1	N	1452	C	C6-N1-C1'	-10.10	108.68	120.80
1	N	347	G	C5-C6-N1	-10.10	106.45	111.50
1	N	392	C	N3-C4-C5	-10.10	117.86	121.90
1	N	510	A	C6-N1-C2	-10.10	112.54	118.60
1	N	852	G	C8-N9-C4	-10.10	102.36	106.40
1	N	1240	U	P-O3'-C3'	10.10	131.82	119.70
1	N	1364	U	O4'-C1'-N1	10.09	116.27	108.20
1	N	648	A	N1-C6-N6	10.09	124.65	118.60
1	N	606	G	N1-C6-O6	10.09	125.95	119.90
1	N	781	A	C5-C6-N1	-10.08	112.66	117.70
1	N	1117	A	C4-C5-C6	10.08	122.04	117.00
1	N	1304	G	N1-C6-O6	10.08	125.95	119.90
1	N	345	C	O4'-C1'-N1	10.08	116.27	108.20
1	N	628	G	C5-C6-O6	-10.08	122.55	128.60
1	N	1061	G	C5-C6-O6	-10.08	122.55	128.60
1	N	946	A	C8-N9-C4	-10.07	101.77	105.80
1	N	1419	G	C5-C6-O6	-10.07	122.56	128.60
1	N	212	G	O4'-C1'-N9	10.07	116.25	108.20
1	N	466	A	C4-C5-C6	10.07	122.03	117.00
1	N	1083	U	P-O3'-C3'	10.07	131.78	119.70
1	N	1240	U	C6-N1-C2	-10.07	114.96	121.00
1	N	152	A	C5-N7-C8	10.06	108.93	103.90
1	N	413	G	N1-C6-O6	10.06	125.94	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	604	G	C2-N3-C4	10.06	116.93	111.90
1	N	1336	C	O4'-C1'-N1	10.06	116.25	108.20
1	N	411	A	N7-C8-N9	10.06	118.83	113.80
1	N	1263	C	O4'-C1'-N1	10.05	116.24	108.20
1	N	932	C	O4'-C1'-N1	10.05	116.24	108.20
1	N	1347	G	N1-C6-O6	10.05	125.93	119.90
1	N	663	A	C4-C5-C6	10.05	122.03	117.00
1	N	731	G	N1-C6-O6	10.05	125.93	119.90
1	N	954	G	C5-C6-O6	-10.05	122.57	128.60
1	N	41	G	C5-C6-O6	-10.05	122.57	128.60
1	N	297	G	O4'-C1'-N9	10.04	116.24	108.20
1	N	573	A	C4-C5-C6	10.04	122.02	117.00
1	N	574	A	C5-C6-N6	-10.04	115.67	123.70
1	N	711	G	N1-C2-N3	-10.04	117.87	123.90
1	N	1131	G	C5-C6-N1	-10.04	106.48	111.50
1	N	1191	A	C5-C6-N6	-10.04	115.67	123.70
1	N	199	A	N1-C6-N6	10.04	124.62	118.60
1	N	1031	C	N3-C4-C5	-10.04	117.88	121.90
1	N	581	G	C8-N9-C4	-10.04	102.39	106.40
1	N	1305	G	N1-C2-N3	-10.04	117.88	123.90
1	N	120	A	N1-C2-N3	-10.03	124.28	129.30
1	N	1316	G	O4'-C1'-N9	10.03	116.23	108.20
1	N	1510	C	O4'-C1'-N1	10.03	116.22	108.20
1	N	148	G	N1-C2-N3	-10.03	117.88	123.90
1	N	1299	A	C4-C5-C6	10.03	122.02	117.00
1	N	451	A	C2-N3-C4	10.03	115.61	110.60
1	N	750	C	P-O5'-C5'	10.03	136.94	120.90
1	N	1300	G	C8-N9-C4	10.03	110.41	106.40
1	N	1488	G	O4'-C1'-N9	10.03	116.22	108.20
1	N	281	G	N1-C6-O6	10.02	125.91	119.90
1	N	846	G	N1-C6-O6	10.02	125.91	119.90
1	N	207	C	N3-C4-N4	10.02	125.01	118.00
1	N	105	G	C2-N3-C4	-10.01	106.89	111.90
1	N	642	A	C5-C6-N6	-10.01	115.69	123.70
1	N	1176	A	O4'-C1'-N9	10.01	116.21	108.20
1	N	418	C	O4'-C1'-N1	10.01	116.21	108.20
1	N	1486	G	N1-C6-O6	10.01	125.90	119.90
1	N	148	G	N7-C8-N9	10.01	118.10	113.10
1	N	304	U	C5-C4-O4	-10.01	119.90	125.90
1	N	59	A	C5-C6-N6	-10.00	115.70	123.70
1	N	94	G	N1-C2-N3	-10.00	117.90	123.90
1	N	395	C	N1-C2-N3	10.00	126.20	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1454	G	N1-C6-O6	10.00	125.90	119.90
1	N	596	A	N1-C6-N6	10.00	124.60	118.60
1	N	1048	G	C5-C6-O6	-10.00	122.60	128.60
1	N	542	G	C4'-C3'-C2'	-10.00	92.60	102.60
1	N	1028	C	C6-N1-C2	10.00	124.30	120.30
1	N	767	A	N7-C8-N9	-10.00	108.80	113.80
1	N	1342	C	C5-C4-N4	-10.00	113.20	120.20
1	N	1171	A	C5-C6-N6	-9.99	115.71	123.70
1	N	10	A	C8-N9-C4	-9.99	101.80	105.80
1	N	731	G	C2-N3-C4	9.99	116.89	111.90
1	N	1037	C	C6-N1-C2	-9.99	116.30	120.30
1	N	1340	A	O4'-C1'-N9	9.99	116.19	108.20
1	N	681	A	C5-C6-N1	-9.99	112.71	117.70
1	N	198	G	C4-C5-N7	9.98	114.79	110.80
1	N	407	U	C5-C4-O4	9.98	131.89	125.90
1	N	985	C	O4'-C1'-N1	9.98	116.19	108.20
1	N	468	A	O4'-C1'-N9	9.98	116.18	108.20
1	N	142	G	N1-C6-O6	9.97	125.89	119.90
1	N	1449	C	O4'-C1'-N1	9.97	116.18	108.20
1	N	468	A	C5-C6-N1	-9.97	112.72	117.70
1	N	1156	G	C5-C6-O6	-9.97	122.62	128.60
1	N	1227	A	N9-C4-C5	-9.97	101.81	105.80
1	N	14	U	N3-C4-O4	9.96	126.38	119.40
1	N	1158	C	C6-N1-C1'	-9.96	108.84	120.80
1	N	437	U	O4'-C1'-N1	9.96	116.17	108.20
1	N	865	A	N1-C6-N6	9.96	124.58	118.60
1	N	474	G	O4'-C1'-N9	9.96	116.17	108.20
1	N	1341	U	O4'-C1'-N1	9.96	116.17	108.20
1	N	853	C	N3-C4-N4	9.95	124.97	118.00
1	N	1407	C	O4'-C1'-N1	9.95	116.16	108.20
1	N	428	G	P-O3'-C3'	9.95	131.64	119.70
1	N	240	G	O4'-C1'-N9	9.95	116.16	108.20
1	N	419	C	O4'-C1'-N1	9.95	116.16	108.20
1	N	1283	U	C2-N3-C4	-9.95	121.03	127.00
1	N	119	A	O4'-C1'-N9	9.94	116.15	108.20
1	N	412	A	C5-N7-C8	9.94	108.87	103.90
1	N	176	C	N3-C4-C5	-9.94	117.92	121.90
1	N	209	U	O4'-C1'-N1	9.94	116.15	108.20
1	N	617	G	C8-N9-C4	-9.94	102.42	106.40
1	N	636	U	O4'-C1'-N1	9.94	116.15	108.20
1	N	925	G	C6-C5-N7	-9.94	124.44	130.40
1	N	1391	U	O4'-C1'-N1	9.94	116.15	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	576	C	N3-C4-C5	-9.94	117.92	121.90
1	N	866	C	C4-C5-C6	9.94	122.37	117.40
1	N	1122	U	O4'-C1'-N1	9.94	116.15	108.20
1	N	445	G	C8-N9-C4	-9.93	102.43	106.40
1	N	520	A	N1-C6-N6	9.93	124.56	118.60
1	N	758	C	C2-N3-C4	9.93	124.86	119.90
1	N	350	G	C6-C5-N7	-9.93	124.44	130.40
1	N	378	G	C6-C5-N7	-9.93	124.44	130.40
1	N	866	C	P-O5'-C5'	9.93	136.78	120.90
1	N	1017	U	C5-C4-O4	-9.93	119.94	125.90
1	N	1347	G	C5-N7-C8	9.92	109.26	104.30
1	N	306	A	C4-C5-N7	-9.92	105.74	110.70
1	N	1287	A	C5-C6-N1	-9.92	112.74	117.70
1	N	10	A	P-O5'-C5'	9.91	136.76	120.90
1	N	1403	C	O4'-C1'-N1	9.91	116.13	108.20
1	N	1489	G	C5-C6-O6	-9.91	122.65	128.60
1	N	21	G	N9-C4-C5	9.91	109.36	105.40
1	N	1151	A	N1-C2-N3	9.91	134.25	129.30
1	N	1242	G	N1-C2-N3	-9.91	117.95	123.90
1	N	739	C	N3-C4-N4	9.91	124.94	118.00
1	N	1313	U	C5-C4-O4	9.91	131.84	125.90
1	N	888	G	C5-C6-N1	-9.91	106.55	111.50
1	N	1334	G	P-O3'-C3'	9.91	131.59	119.70
1	N	71	A	C5-C6-N6	-9.90	115.78	123.70
1	N	977	A	C5-C6-N6	-9.90	115.78	123.70
1	N	1256	A	C5-N7-C8	9.90	108.85	103.90
1	N	498	A	C5-C6-N1	-9.90	112.75	117.70
1	N	572	A	N7-C8-N9	9.90	118.75	113.80
1	N	1289	A	O4'-C1'-N9	9.90	116.12	108.20
1	N	204	G	N1-C6-O6	9.90	125.84	119.90
1	N	891	U	O4'-C1'-N1	9.90	116.12	108.20
1	N	1355	G	N3-C4-C5	9.90	133.55	128.60
1	N	1353	G	C5-C6-O6	-9.90	122.66	128.60
1	N	107	G	N1-C6-O6	9.89	125.84	119.90
1	N	939	G	C6-N1-C2	9.89	131.04	125.10
1	N	1161	C	N3-C4-C5	-9.89	117.94	121.90
1	N	651	C	P-O5'-C5'	9.88	136.72	120.90
1	N	1143	G	C8-N9-C4	-9.88	102.45	106.40
1	N	100	G	N3-C2-N2	9.88	126.82	119.90
1	N	152	A	C4-C5-N7	-9.88	105.76	110.70
1	N	773	G	N1-C6-O6	9.88	125.83	119.90
1	N	1155	A	C4-C5-C6	9.87	121.94	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	393	A	N9-C4-C5	9.87	109.75	105.80
1	N	546	A	N3-C4-C5	-9.87	119.89	126.80
1	N	907	A	P-O3'-C3'	9.87	131.54	119.70
1	N	98	A	C5-C6-N6	-9.87	115.81	123.70
1	N	1101	A	N1-C2-N3	9.87	134.23	129.30
1	N	1469	C	C2-N3-C4	9.86	124.83	119.90
1	N	180	U	P-O5'-C5'	9.86	136.68	120.90
1	N	543	U	N1-C2-N3	-9.86	108.98	114.90
1	N	595	A	C5-C6-N6	-9.86	115.81	123.70
1	N	117	G	C6-C5-N7	-9.86	124.48	130.40
1	N	908	A	C5-N7-C8	9.86	108.83	103.90
1	N	73	C	P-O5'-C5'	-9.85	105.14	120.90
1	N	563	A	O4'-C1'-N9	9.85	116.08	108.20
1	N	1447	A	C8-N9-C4	-9.85	101.86	105.80
1	N	202	G	C5-C6-N1	-9.85	106.58	111.50
1	N	239	U	C5-C6-N1	9.85	127.62	122.70
1	N	746	A	C6-N1-C2	9.85	124.51	118.60
1	N	598	U	C2-N3-C4	-9.84	121.09	127.00
1	N	748	G	N3-C2-N2	9.84	126.79	119.90
1	N	350	G	C4-C5-N7	9.84	114.73	110.80
1	N	744	C	N3-C4-N4	9.84	124.89	118.00
1	N	122	G	N7-C8-N9	9.84	118.02	113.10
1	N	925	G	N9-C4-C5	-9.84	101.47	105.40
1	N	160	A	N1-C6-N6	9.84	124.50	118.60
1	N	246	A	N9-C4-C5	9.84	109.73	105.80
1	N	851	G	N1-C6-O6	9.84	125.80	119.90
1	N	106	C	C6-N1-C2	-9.83	116.37	120.30
1	N	210	C	O4'-C1'-N1	9.83	116.07	108.20
1	N	1058	G	P-O5'-C5'	9.83	136.63	120.90
1	N	1176	A	C5-N7-C8	9.83	108.82	103.90
1	N	1328	C	O4'-C1'-N1	9.83	116.07	108.20
1	N	471	U	O4'-C1'-N1	9.83	116.06	108.20
1	N	810	C	C6-N1-C2	-9.83	116.37	120.30
1	N	1287	A	N7-C8-N9	9.83	118.71	113.80
1	N	797	C	C6-N1-C2	-9.83	116.37	120.30
1	N	1390	U	N3-C4-O4	9.83	126.28	119.40
1	N	827	U	P-O3'-C3'	9.82	131.49	119.70
1	N	840	C	N3-C4-N4	9.82	124.88	118.00
1	N	475	C	C2-N3-C4	-9.82	114.99	119.90
1	N	864	A	P-O3'-C3'	9.82	131.48	119.70
1	N	903	G	N3-C2-N2	9.82	126.77	119.90
1	N	608	A	C5-C6-N6	-9.82	115.85	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	873	A	C4-C5-C6	9.82	121.91	117.00
1	N	325	A	N1-C6-N6	9.81	124.49	118.60
1	N	809	G	N3-C4-N9	-9.81	120.11	126.00
1	N	840	C	C5-C4-N4	-9.81	113.33	120.20
1	N	882	C	O4'-C1'-N1	9.81	116.05	108.20
1	N	691	G	P-O5'-C5'	9.81	136.59	120.90
1	N	1124	G	C8-N9-C4	-9.80	102.48	106.40
1	N	166	U	C5-C6-N1	9.80	127.60	122.70
1	N	1497	G	C2-N3-C4	9.80	116.80	111.90
1	N	63	C	N3-C4-N4	9.79	124.86	118.00
1	N	845	A	C2-N3-C4	-9.79	105.70	110.60
1	N	500	G	C8-N9-C4	-9.79	102.48	106.40
1	N	769	G	N7-C8-N9	9.79	118.00	113.10
1	N	138	G	N1-C6-O6	9.79	125.77	119.90
1	N	284	C	C2-N3-C4	9.79	124.79	119.90
1	N	228	A	C2-N3-C4	-9.78	105.71	110.60
1	N	359	G	P-O3'-C3'	-9.78	107.96	119.70
1	N	1505	G	C5-C6-O6	-9.78	122.73	128.60
1	N	581	G	N7-C8-N9	9.78	117.99	113.10
1	N	596	A	C2-N3-C4	-9.78	105.71	110.60
1	N	1281	C	C2-N3-C4	9.78	124.79	119.90
1	N	1040	U	O4'-C1'-N1	9.77	116.02	108.20
1	N	999	C	C5-C6-N1	9.77	125.89	121.00
1	N	829	G	C5-C6-O6	-9.77	122.74	128.60
1	N	430	A	P-O5'-C5'	9.76	136.52	120.90
1	N	857	C	O4'-C1'-N1	9.76	116.00	108.20
1	N	1274	A	C4-C5-C6	9.76	121.88	117.00
1	N	642	A	C4-C5-C6	9.75	121.88	117.00
1	N	1498	U	C3'-C2'-C1'	9.75	109.30	101.50
1	N	711	G	O4'-C1'-N9	9.75	116.00	108.20
1	N	1234	C	N3-C4-N4	9.75	124.82	118.00
1	N	1411	C	N3-C4-C5	-9.75	118.00	121.90
1	N	513	C	C5-C4-N4	-9.75	113.38	120.20
1	N	695	A	C5-C6-N6	-9.75	115.90	123.70
1	N	1524	C	N3-C4-N4	9.74	124.82	118.00
1	N	500	G	N3-C4-C5	9.74	133.47	128.60
1	N	686	U	O4'-C1'-N1	9.74	116.00	108.20
1	N	960	U	O4'-C1'-N1	9.74	115.99	108.20
1	N	1032	G	C4'-C3'-C2'	-9.74	92.86	102.60
1	N	1048	G	O4'-C1'-N9	9.74	116.00	108.20
1	N	740	U	C5-C4-O4	-9.74	120.06	125.90
1	N	166	U	C6-N1-C2	-9.74	115.16	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1230	C	N3-C4-C5	-9.74	118.00	121.90
1	N	1378	C	N3-C4-N4	9.74	124.82	118.00
1	N	202	G	C5-C6-O6	-9.73	122.76	128.60
1	N	258	G	C5-C6-N1	-9.73	106.63	111.50
1	N	871	U	O4'-C1'-N1	9.73	115.99	108.20
1	N	157	U	N3-C4-O4	9.73	126.21	119.40
1	N	665	A	C5-C6-N6	-9.73	115.92	123.70
1	N	890	G	N1-C2-N3	-9.73	118.06	123.90
1	N	1096	C	P-O5'-C5'	9.73	136.46	120.90
1	N	1370	G	O4'-C1'-N9	9.73	115.98	108.20
1	N	741	G	N7-C8-N9	9.72	117.96	113.10
1	N	1480	A	C6-C5-N7	-9.72	125.50	132.30
1	N	320	A	C5-C6-N6	-9.71	115.93	123.70
1	N	679	C	N3-C4-N4	9.71	124.80	118.00
1	N	82	G	C5-C6-O6	-9.71	122.77	128.60
1	N	927	G	C5-C6-N1	-9.71	106.64	111.50
1	N	100	G	N9-C4-C5	9.71	109.28	105.40
1	N	902	G	C5-N7-C8	-9.71	99.45	104.30
1	N	332	G	C4-C5-N7	9.70	114.68	110.80
1	N	576	C	C1'-O4'-C4'	-9.70	102.14	109.90
1	N	978	A	N7-C8-N9	9.70	118.65	113.80
1	N	1021	A	N1-C6-N6	9.70	124.42	118.60
1	N	35	G	C5-N7-C8	9.70	109.15	104.30
1	N	152	A	O4'-C1'-N9	9.70	115.96	108.20
1	N	675	A	O4'-C1'-N9	9.70	115.96	108.20
1	N	1173	U	P-O5'-C5'	9.69	136.41	120.90
1	N	100	G	C4-C5-C6	9.69	124.62	118.80
1	N	364	A	C5-N7-C8	9.69	108.74	103.90
1	N	414	A	P-O5'-C5'	9.69	136.40	120.90
1	N	521	G	N1-C6-O6	9.69	125.71	119.90
1	N	596	A	C5-C6-N1	-9.69	112.86	117.70
1	N	1146	A	C5-C6-N6	-9.69	115.95	123.70
1	N	1383	C	O4'-C1'-N1	9.69	115.95	108.20
1	N	1165	U	C5-C6-N1	9.69	127.54	122.70
1	N	107	G	O4'-C1'-N9	9.69	115.95	108.20
1	N	1138	G	O4'-C1'-N9	9.69	115.95	108.20
1	N	608	A	C8-N9-C4	-9.68	101.93	105.80
1	N	1440	U	O4'-C1'-N1	9.68	115.95	108.20
1	N	980	C	N3-C4-N4	9.68	124.78	118.00
1	N	460	A	C5-C6-N6	-9.68	115.96	123.70
1	N	772	U	N1-C2-N3	9.68	120.71	114.90
1	N	1085	U	N1-C2-N3	-9.68	109.09	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	35	G	C6-C5-N7	-9.68	124.59	130.40
1	N	729	A	C5-C6-N1	-9.68	112.86	117.70
1	N	1084	G	C5-C6-O6	-9.68	122.80	128.60
1	N	1071	C	C4-C5-C6	-9.67	112.56	117.40
1	N	1251	A	C8-N9-C4	-9.67	101.93	105.80
1	N	241	G	C5-C6-O6	-9.67	122.80	128.60
1	N	502	A	C4-C5-C6	9.67	121.83	117.00
1	N	525	C	O4'-C1'-N1	9.67	115.93	108.20
1	N	927	G	N1-C2-N3	-9.67	118.10	123.90
1	N	353	A	C5-C6-N6	-9.66	115.97	123.70
1	N	1245	C	N3-C4-N4	9.66	124.77	118.00
1	N	661	G	N7-C8-N9	-9.66	108.27	113.10
1	N	82	G	N1-C2-N3	-9.66	118.11	123.90
1	N	1475	G	C6-C5-N7	-9.65	124.61	130.40
1	N	1156	G	N1-C6-O6	9.65	125.69	119.90
1	N	1334	G	C2-N3-C4	-9.65	107.07	111.90
1	N	1209	C	N3-C4-C5	-9.65	118.04	121.90
1	N	1312	G	N3-C2-N2	9.65	126.66	119.90
1	N	193	C	P-O5'-C5'	9.65	136.34	120.90
1	N	1183	U	N1-C2-N3	9.65	120.69	114.90
1	N	90	C	C5'-C4'-C3'	9.64	131.43	116.00
1	N	581	G	N1-C6-O6	9.64	125.69	119.90
1	N	828	U	O4'-C1'-N1	9.64	115.92	108.20
1	N	1329	A	C8-N9-C4	-9.64	101.94	105.80
1	N	117	G	N1-C6-O6	9.64	125.69	119.90
1	N	547	A	N9-C4-C5	9.64	109.66	105.80
1	N	666	G	C5-N7-C8	-9.64	99.48	104.30
1	N	723	U	N3-C2-O2	9.64	128.95	122.20
1	N	895	G	N7-C8-N9	-9.64	108.28	113.10
1	N	1094	G	N1-C6-O6	9.64	125.68	119.90
1	N	1080	A	C4-C5-C6	9.63	121.82	117.00
1	N	1241	G	P-O5'-C5'	9.63	136.31	120.90
1	N	411	A	C5-N7-C8	-9.63	99.08	103.90
1	N	526	C	C5-C6-N1	9.63	125.81	121.00
1	N	659	U	O4'-C1'-N1	9.63	115.90	108.20
1	N	1102	A	C5-C6-N1	-9.63	112.89	117.70
1	N	578	C	O4'-C1'-N1	9.63	115.90	108.20
1	N	1388	C	O4'-C1'-N1	9.63	115.90	108.20
1	N	510	A	N1-C2-N3	9.62	134.11	129.30
1	N	893	C	N3-C4-N4	9.62	124.74	118.00
1	N	872	A	C4-C5-C6	9.62	121.81	117.00
1	N	1267	C	C5-C6-N1	9.62	125.81	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	53	A	C5-N7-C8	9.62	108.71	103.90
1	N	1183	U	C6-N1-C2	-9.62	115.23	121.00
1	N	1200	C	C5'-C4'-O4'	-9.61	97.56	109.10
1	N	1301	U	O4'-C1'-N1	9.61	115.89	108.20
1	N	774	G	C8-N9-C4	-9.61	102.56	106.40
1	N	873	A	N1-C6-N6	9.61	124.37	118.60
1	N	762	U	C2-N3-C4	-9.61	121.24	127.00
1	N	934	C	C5-C4-N4	-9.60	113.48	120.20
1	N	66	A	C4-C5-C6	9.60	121.80	117.00
1	N	430	A	N1-C6-N6	9.60	124.36	118.60
1	N	1124	G	N3-C2-N2	9.60	126.62	119.90
1	N	38	G	C5-C6-O6	-9.60	122.84	128.60
1	N	443	C	N3-C4-N4	9.60	124.72	118.00
1	N	481	G	N1-C6-O6	9.60	125.66	119.90
1	N	665	A	O4'-C1'-N9	9.60	115.88	108.20
1	N	749	A	C4-C5-C6	9.60	121.80	117.00
1	N	1518	A	P-O3'-C3'	9.60	131.22	119.70
1	N	226	G	O4'-C1'-N9	9.60	115.88	108.20
1	N	1415	G	C8-N9-C4	-9.60	102.56	106.40
1	N	377	G	N3-C2-N2	-9.59	113.18	119.90
1	N	371	A	O4'-C1'-N9	9.59	115.87	108.20
1	N	298	A	C8-N9-C4	9.59	109.64	105.80
1	N	341	C	C4-C5-C6	9.59	122.20	117.40
1	N	537	G	C4-C5-C6	9.59	124.55	118.80
1	N	620	C	O4'-C1'-N1	9.59	115.87	108.20
1	N	143	A	C4-C5-N7	-9.59	105.91	110.70
1	N	183	C	C5-C4-N4	-9.59	113.49	120.20
1	N	1123	U	O4'-C1'-N1	9.59	115.87	108.20
1	N	538	G	N1-C6-O6	9.58	125.65	119.90
1	N	1219	A	C5-C6-N1	-9.58	112.91	117.70
1	N	539	A	C5-C6-N1	-9.58	112.91	117.70
1	N	1220	G	C4'-C3'-C2'	-9.58	93.02	102.60
1	N	785	G	N1-C6-O6	9.58	125.65	119.90
1	N	1088	G	N3-C4-C5	-9.58	123.81	128.60
1	N	450	G	C8-N9-C4	9.57	110.23	106.40
1	N	60	A	C5-N7-C8	9.57	108.69	103.90
1	N	374	A	N1-C6-N6	9.57	124.34	118.60
1	N	63	C	P-O3'-C3'	9.57	131.18	119.70
1	N	77	A	C4-C5-C6	9.57	121.78	117.00
1	N	708	C	O4'-C1'-N1	9.57	115.85	108.20
1	N	1155	A	C5-C6-N6	-9.57	116.05	123.70
1	N	513	C	C6-N1-C2	-9.56	116.47	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	10	A	N9-C4-C5	9.56	109.62	105.80
1	N	108	G	C5-C6-N1	-9.56	106.72	111.50
1	N	649	A	C5-C6-N6	-9.56	116.05	123.70
1	N	1474	U	C5-C6-N1	9.56	127.48	122.70
1	N	1130	A	C4-C5-N7	-9.56	105.92	110.70
1	N	1500	A	C5-C6-N6	-9.56	116.05	123.70
1	N	1263	C	P-O5'-C5'	9.55	136.19	120.90
1	N	1428	A	N1-C6-N6	9.55	124.33	118.60
1	N	1059	C	N3-C4-N4	9.55	124.69	118.00
1	N	829	G	C6-C5-N7	-9.55	124.67	130.40
1	N	1364	U	C1'-O4'-C4'	-9.55	102.26	109.90
1	N	138	G	C5-C6-O6	-9.54	122.87	128.60
1	N	634	C	C5-C4-N4	-9.54	113.52	120.20
1	N	853	C	O4'-C1'-N1	9.54	115.83	108.20
1	N	999	C	C6-N1-C2	-9.54	116.48	120.30
1	N	978	A	N1-C6-N6	9.54	124.32	118.60
1	N	1415	G	C5-C6-N1	-9.54	106.73	111.50
1	N	1111	A	C5-N7-C8	9.54	108.67	103.90
1	N	1447	A	N3-C4-C5	-9.54	120.12	126.80
1	N	8	A	C4-C5-C6	9.54	121.77	117.00
1	N	340	U	P-O5'-C5'	9.53	136.15	120.90
1	N	698	G	C5-C6-N1	9.53	116.27	111.50
1	N	1029	U	C5-C6-N1	9.53	127.47	122.70
1	N	1378	C	O4'-C1'-N1	9.53	115.83	108.20
1	N	274	A	C3'-C2'-C1'	9.53	109.12	101.50
1	N	944	G	N7-C8-N9	-9.53	108.33	113.10
1	N	945	G	O4'-C1'-N9	9.53	115.82	108.20
1	N	965	U	N3-C2-O2	9.53	128.87	122.20
1	N	1195	C	N3-C4-C5	-9.53	118.09	121.90
1	N	849	G	N3-C4-C5	-9.53	123.84	128.60
1	N	944	G	N1-C2-N3	-9.53	118.18	123.90
1	N	1015	G	N9-C4-C5	9.53	109.21	105.40
1	N	1215	G	O4'-C1'-N9	9.53	115.82	108.20
1	N	1250	A	C5-N7-C8	9.53	108.66	103.90
1	N	32	A	C5-C6-N6	-9.52	116.08	123.70
1	N	395	C	N1-C2-O2	-9.52	113.19	118.90
1	N	507	C	N3-C4-C5	-9.52	118.09	121.90
1	N	1185	G	N1-C2-N3	-9.52	118.19	123.90
1	N	134	G	C5-C6-O6	-9.52	122.89	128.60
1	N	731	G	C4-C5-C6	9.52	124.51	118.80
1	N	15	G	C5-C6-O6	-9.51	122.89	128.60
1	N	238	A	C8-N9-C4	-9.51	102.00	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	689	C	C5-C6-N1	9.51	125.76	121.00
1	N	763	G	N1-C6-O6	9.51	125.61	119.90
1	N	59	A	O4'-C1'-N9	9.51	115.81	108.20
1	N	1031	C	C6-N1-C2	-9.51	116.50	120.30
1	N	1371	G	O4'-C1'-N9	9.51	115.81	108.20
1	N	281	G	N1-C2-N3	-9.51	118.19	123.90
1	N	1450	U	N3-C4-O4	9.51	126.05	119.40
1	N	1456	A	N9-C4-C5	-9.50	102.00	105.80
1	N	1070	U	O4'-C1'-N1	9.50	115.80	108.20
1	N	1324	A	O4'-C1'-N9	9.50	115.80	108.20
1	N	1223	C	C6-N1-C2	-9.49	116.50	120.30
1	N	1285	A	C5-C6-N6	-9.49	116.11	123.70
1	N	76	G	N1-C2-N3	-9.49	118.21	123.90
1	N	736	C	N3-C4-N4	9.49	124.64	118.00
1	N	877	G	C6-C5-N7	-9.49	124.71	130.40
1	N	1366	C	N1-C2-O2	9.49	124.59	118.90
1	N	119	A	N9-C4-C5	-9.48	102.01	105.80
1	N	200	G	C1'-O4'-C4'	9.48	117.49	109.90
1	N	839	C	O4'-C1'-N1	9.48	115.79	108.20
1	N	1087	G	C2-N3-C4	9.48	116.64	111.90
1	N	1135	U	O4'-C1'-N1	9.48	115.78	108.20
1	N	217	C	C6-N1-C2	-9.48	116.51	120.30
1	N	1423	G	N9-C4-C5	-9.48	101.61	105.40
1	N	879	C	N3-C4-N4	9.47	124.63	118.00
1	N	1240	U	N1-C2-O2	-9.47	116.17	122.80
1	N	1268	G	O4'-C1'-N9	9.47	115.78	108.20
1	N	620	C	C4-C5-C6	9.47	122.14	117.40
1	N	1192	C	O4'-C1'-N1	9.47	115.78	108.20
1	N	1394	A	C5-C6-N1	-9.47	112.97	117.70
1	N	383	A	C5-C6-N1	-9.47	112.97	117.70
1	N	493	A	C5-C6-N6	-9.47	116.13	123.70
1	N	697	U	N1-C2-O2	-9.47	116.17	122.80
1	N	430	A	O4'-C1'-N9	9.46	115.77	108.20
1	N	564	C	N3-C4-C5	-9.47	118.11	121.90
1	N	500	G	N3-C4-N9	-9.46	120.32	126.00
1	N	897	C	O4'-C1'-N1	9.46	115.77	108.20
1	N	97	G	C5-N7-C8	9.46	109.03	104.30
1	N	386	C	O4'-C1'-N1	9.46	115.77	108.20
1	N	926	G	O4'-C1'-N9	9.46	115.77	108.20
1	N	128	G	C6-C5-N7	-9.45	124.73	130.40
1	N	606	G	N9-C4-C5	-9.45	101.62	105.40
1	N	780	A	C5-C6-N1	-9.46	112.97	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	807	A	N1-C6-N6	9.46	124.27	118.60
1	N	938	A	C6-C5-N7	-9.45	125.68	132.30
1	N	1176	A	N7-C8-N9	-9.45	109.07	113.80
1	N	1445	U	O4'-C1'-N1	9.45	115.76	108.20
1	N	362	G	N3-C4-C5	-9.45	123.87	128.60
1	N	284	C	C5-C6-N1	9.45	125.72	121.00
1	N	1066	C	N3-C4-N4	9.45	124.61	118.00
1	N	607	A	C5-N7-C8	9.45	108.62	103.90
1	N	616	G	P-O3'-C3'	-9.45	108.36	119.70
1	N	684	U	O4'-C1'-N1	9.45	115.76	108.20
1	N	1045	C	C2-N3-C4	9.45	124.62	119.90
1	N	1162	C	C2-N3-C4	9.45	124.62	119.90
1	N	770	C	N3-C4-C5	-9.44	118.12	121.90
1	N	621	A	C4-C5-N7	-9.44	105.98	110.70
1	N	879	C	N3-C4-C5	-9.44	118.12	121.90
1	N	1293	C	C5-C4-N4	-9.44	113.59	120.20
1	N	466	A	N3-C4-C5	-9.44	120.19	126.80
1	N	68	G	N3-C2-N2	9.43	126.50	119.90
1	N	288	A	C8-N9-C4	-9.43	102.03	105.80
1	N	486	U	P-O5'-C5'	-9.43	105.81	120.90
1	N	803	G	O4'-C1'-N9	9.43	115.74	108.20
1	N	475	C	C6-N1-C2	-9.43	116.53	120.30
1	N	893	C	C5-C6-N1	9.43	125.71	121.00
1	N	466	A	C5-N7-C8	9.42	108.61	103.90
1	N	840	C	C2-N3-C4	-9.42	115.19	119.90
1	N	1452	C	C2-N1-C1'	9.42	129.17	118.80
1	N	1251	A	P-O3'-C3'	9.42	131.00	119.70
1	N	497	G	C4-C5-C6	-9.42	113.15	118.80
1	N	1094	G	C5-C6-N1	-9.42	106.79	111.50
1	N	136	C	N3-C4-N4	9.41	124.59	118.00
1	N	913	A	C4-C5-C6	9.41	121.71	117.00
1	N	404	G	C5-C6-O6	-9.41	122.95	128.60
1	N	202	G	C4-C5-N7	-9.41	107.04	110.80
1	N	306	A	C5-C6-N6	-9.41	116.17	123.70
1	N	617	G	C4-C5-C6	9.41	124.44	118.80
1	N	649	A	N1-C2-N3	-9.40	124.60	129.30
1	N	1467	C	N3-C4-C5	-9.40	118.14	121.90
1	N	108	G	N3-C2-N2	9.40	126.48	119.90
1	N	1290	G	N3-C4-N9	9.40	131.64	126.00
1	N	219	U	N1-C2-O2	-9.40	116.22	122.80
1	N	1509	C	N3-C4-N4	9.39	124.58	118.00
1	N	328	C	N1-C2-O2	-9.39	113.27	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	980	C	C6-N1-C2	-9.38	116.55	120.30
1	N	204	G	N3-C2-N2	9.38	126.47	119.90
1	N	1032	G	N3-C2-N2	9.38	126.47	119.90
1	N	947	G	C6-C5-N7	-9.37	124.78	130.40
1	N	1213	A	C5-C6-N6	-9.37	116.21	123.70
1	N	1347	G	C6-C5-N7	-9.37	124.78	130.40
1	N	566	G	C4-C5-C6	9.37	124.42	118.80
1	N	800	G	N1-C6-O6	9.37	125.52	119.90
1	N	769	G	C5-N7-C8	-9.36	99.62	104.30
1	N	724	G	N1-C2-N3	-9.36	118.29	123.90
1	N	173	U	O4'-C1'-N1	9.36	115.68	108.20
1	N	699	C	P-O3'-C3'	-9.36	108.47	119.70
1	N	482	A	C5-C6-N1	-9.35	113.02	117.70
1	N	1333	A	C8-N9-C4	-9.35	102.06	105.80
1	N	887	G	C5-C6-N1	-9.35	106.83	111.50
1	N	276	G	C6-C5-N7	-9.34	124.79	130.40
1	N	1267	C	N3-C4-C5	-9.34	118.16	121.90
1	N	898	G	C5-C6-O6	-9.34	123.00	128.60
1	N	1032	G	C4-C5-C6	9.34	124.41	118.80
1	N	201	G	O4'-C1'-N9	9.34	115.67	108.20
1	N	807	A	O4'-C1'-N9	9.34	115.67	108.20
1	N	275	G	O4'-C1'-N9	9.34	115.67	108.20
1	N	133	U	N3-C4-C5	-9.34	109.00	114.60
1	N	136	C	C5-C4-N4	-9.34	113.66	120.20
1	N	301	G	C4-C5-C6	9.34	124.40	118.80
1	N	769	G	C6-C5-N7	-9.34	124.80	130.40
1	N	1366	C	O4'-C1'-N1	9.34	115.67	108.20
1	N	1454	G	C5-C6-N1	-9.34	106.83	111.50
1	N	43	C	P-O5'-C5'	9.33	135.83	120.90
1	N	44	A	C5-C6-N6	-9.33	116.23	123.70
1	N	537	G	N9-C4-C5	9.33	109.13	105.40
1	N	513	C	N3-C4-N4	9.33	124.53	118.00
1	N	1118	U	C5-C6-N1	9.33	127.36	122.70
1	N	1077	G	O4'-C1'-N9	9.33	115.66	108.20
1	N	1460	C	N3-C4-C5	-9.32	118.17	121.90
1	N	275	G	N1-C6-O6	9.32	125.49	119.90
1	N	1338	G	N7-C8-N9	9.32	117.76	113.10
1	N	439	U	N3-C2-O2	9.32	128.72	122.20
1	N	1012	A	C5-C6-N6	-9.32	116.24	123.70
1	N	39	G	N3-C2-N2	9.32	126.42	119.90
1	N	72	A	C6-C5-N7	-9.32	125.78	132.30
1	N	1089	G	O4'-C1'-N9	9.32	115.65	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1367	C	O4'-C1'-N1	9.32	115.65	108.20
1	N	242	G	O4'-C1'-N9	9.31	115.65	108.20
1	N	644	U	N1-C2-N3	-9.31	109.31	114.90
1	N	556	C	O4'-C1'-N1	9.31	115.65	108.20
1	N	1238	A	C5-C6-N1	-9.31	113.05	117.70
1	N	51	A	C3'-C2'-C1'	9.31	108.94	101.50
1	N	1184	G	N3-C2-N2	9.31	126.41	119.90
1	N	1405	G	N1-C2-N3	-9.30	118.32	123.90
1	N	753	A	P-O5'-C5'	-9.30	106.02	120.90
1	N	823	C	O4'-C1'-N1	9.30	115.64	108.20
1	N	1505	G	N9-C4-C5	9.30	109.12	105.40
1	N	314	C	N3-C4-C5	-9.30	118.18	121.90
1	N	225	C	O4'-C1'-N1	9.30	115.64	108.20
1	N	250	A	C5-C6-N1	-9.30	113.05	117.70
1	N	837	U	O4'-C1'-N1	9.30	115.64	108.20
1	N	511	C	O4'-C1'-N1	9.30	115.64	108.20
1	N	859	G	C5-C6-O6	-9.29	123.02	128.60
1	N	1117	A	P-O3'-C3'	9.29	130.85	119.70
1	N	1117	A	N7-C8-N9	-9.29	109.15	113.80
1	N	1372	U	O4'-C1'-N1	9.29	115.63	108.20
1	N	1479	C	N3-C4-C5	-9.29	118.18	121.90
1	N	524	G	C4-C5-C6	9.29	124.37	118.80
1	N	788	U	O4'-C1'-N1	9.29	115.63	108.20
1	N	1313	U	O4'-C1'-N1	9.29	115.63	108.20
1	N	1479	C	C2-N3-C4	9.29	124.54	119.90
1	N	462	G	C5-C6-N1	-9.29	106.86	111.50
1	N	564	C	C2-N3-C4	9.29	124.54	119.90
1	N	1463	U	O4'-C1'-N1	9.29	115.63	108.20
1	N	450	G	N3-C2-N2	9.28	126.40	119.90
1	N	756	C	C2-N3-C4	9.28	124.54	119.90
1	N	926	G	C5-C6-N1	-9.28	106.86	111.50
1	N	860	A	N1-C6-N6	9.28	124.17	118.60
1	N	58	C	N1-C2-O2	-9.28	113.33	118.90
1	N	397	A	N1-C6-N6	9.28	124.17	118.60
1	N	599	C	O4'-C1'-N1	9.28	115.62	108.20
1	N	667	G	C2-N3-C4	9.27	116.54	111.90
1	N	1311	A	C5-C6-N6	-9.27	116.28	123.70
1	N	802	A	C4-C5-C6	9.27	121.63	117.00
1	N	243	A	O4'-C1'-N9	9.27	115.61	108.20
1	N	1204	A	O4'-C1'-N9	9.27	115.61	108.20
1	N	1264	U	C5-C4-O4	-9.26	120.34	125.90
1	N	1361	G	O4'-C1'-N9	9.26	115.61	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	42	G	C5-C6-O6	-9.26	123.05	128.60
1	N	200	G	N9-C4-C5	-9.26	101.70	105.40
1	N	1172	C	C6-N1-C2	-9.26	116.60	120.30
1	N	102	G	N1-C2-N3	-9.26	118.35	123.90
1	N	952	U	N3-C4-O4	9.26	125.88	119.40
1	N	577	G	O4'-C1'-N9	9.25	115.60	108.20
1	N	639	G	C8-N9-C4	-9.25	102.70	106.40
1	N	1084	G	N3-C2-N2	9.25	126.38	119.90
1	N	1358	U	N1-C2-O2	-9.25	116.33	122.80
1	N	366	A	C4-C5-C6	9.25	121.62	117.00
1	N	3	A	C5-N7-C8	9.25	108.52	103.90
1	N	1044	A	O4'-C1'-N9	9.25	115.60	108.20
1	N	203	G	O4'-C1'-N9	9.24	115.59	108.20
1	N	1181	G	N7-C8-N9	-9.24	108.48	113.10
1	N	215	C	O4'-C1'-N1	9.24	115.59	108.20
1	N	959	A	O4'-C1'-N9	9.24	115.59	108.20
1	N	1015	G	N1-C2-N3	-9.24	118.36	123.90
1	N	408	A	C4-C5-C6	9.24	121.62	117.00
1	N	1181	G	O4'-C1'-N9	9.24	115.59	108.20
1	N	1281	C	N3-C4-C5	-9.24	118.20	121.90
1	N	1473	G	N7-C8-N9	-9.24	108.48	113.10
1	N	508	U	P-O3'-C3'	9.24	130.79	119.70
1	N	691	G	C6-C5-N7	-9.24	124.86	130.40
1	N	1116	U	N3-C4-O4	9.24	125.87	119.40
1	N	993	G	C6-C5-N7	-9.23	124.86	130.40
1	N	1069	C	C3'-C2'-C1'	-9.23	94.11	101.50
1	N	1432	G	C5-C6-O6	-9.23	123.06	128.60
1	N	1529	G	N1-C2-N3	-9.23	118.36	123.90
1	N	167	A	N1-C6-N6	9.23	124.14	118.60
1	N	1368	A	O4'-C1'-N9	9.23	115.58	108.20
1	N	258	G	C6-N1-C2	9.22	130.63	125.10
1	N	1209	C	O4'-C1'-N1	9.22	115.57	108.20
1	N	315	A	N1-C2-N3	9.22	133.91	129.30
1	N	789	U	N3-C4-O4	9.21	125.85	119.40
1	N	838	G	C5-C6-N1	-9.21	106.89	111.50
1	N	345	C	N3-C4-N4	9.21	124.45	118.00
1	N	878	A	N1-C6-N6	9.21	124.13	118.60
1	N	1520	C	O4'-C1'-N1	9.21	115.57	108.20
1	N	765	G	C6-C5-N7	-9.21	124.87	130.40
1	N	382	A	O4'-C1'-N9	9.20	115.56	108.20
1	N	793	U	O4'-C1'-N1	9.21	115.56	108.20
1	N	39	G	N1-C6-O6	9.20	125.42	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1194	U	C6-N1-C2	-9.20	115.48	121.00
1	N	1144	G	C5-C6-O6	-9.20	123.08	128.60
1	N	1429	A	N1-C6-N6	9.20	124.12	118.60
1	N	1181	G	C8-N9-C4	9.19	110.08	106.40
1	N	281	G	C6-N1-C2	9.19	130.62	125.10
1	N	423	G	O4'-C1'-N9	9.19	115.55	108.20
1	N	860	A	N9-C4-C5	-9.19	102.12	105.80
1	N	3	A	C4-C5-N7	-9.19	106.11	110.70
1	N	66	A	C6-C5-N7	-9.19	125.87	132.30
1	N	835	U	O4'-C1'-N1	9.19	115.55	108.20
1	N	54	C	N3-C4-C5	-9.19	118.22	121.90
1	N	451	A	O4'-C1'-N9	9.19	115.55	108.20
1	N	667	G	C8-N9-C4	-9.19	102.73	106.40
1	N	1061	G	C8-N9-C4	-9.19	102.72	106.40
1	N	1368	A	C4-C5-C6	9.19	121.59	117.00
1	N	925	G	O4'-C1'-N9	9.18	115.55	108.20
1	N	148	G	P-O5'-C5'	9.18	135.59	120.90
1	N	223	A	N9-C4-C5	-9.18	102.13	105.80
1	N	462	G	N1-C2-N3	-9.18	118.39	123.90
1	N	1257	A	N1-C6-N6	9.18	124.11	118.60
1	N	1378	C	C6-N1-C2	-9.18	116.63	120.30
1	N	363	A	C8-N9-C4	-9.18	102.13	105.80
1	N	1350	A	C4-C5-C6	9.17	121.59	117.00
1	N	1523	G	N3-C4-N9	-9.17	120.50	126.00
1	N	926	G	C4-C5-N7	9.17	114.47	110.80
1	N	201	G	P-O3'-C3'	9.17	130.71	119.70
1	N	301	G	C6-C5-N7	-9.17	124.90	130.40
1	N	535	A	C5-C6-N1	-9.17	113.12	117.70
1	N	666	G	C5'-C4'-C3'	9.17	130.67	116.00
1	N	1020	G	N1-C6-O6	9.17	125.40	119.90
1	N	1153	G	N1-C2-N3	-9.17	118.40	123.90
1	N	993	G	C5-C6-O6	-9.16	123.10	128.60
1	N	116	A	C8-N9-C4	-9.16	102.14	105.80
1	N	400	C	N3-C4-N4	9.16	124.41	118.00
1	N	806	C	C4'-C3'-C2'	-9.16	93.44	102.60
1	N	1353	G	N1-C6-O6	9.16	125.40	119.90
1	N	29	U	C5-C6-N1	9.16	127.28	122.70
1	N	658	C	N3-C4-C5	-9.16	118.24	121.90
1	N	940	C	O4'-C1'-N1	9.16	115.53	108.20
1	N	1011	C	N3-C4-C5	-9.16	118.24	121.90
1	N	1222	G	N1-C6-O6	9.15	125.39	119.90
1	N	486	U	O5'-P-OP2	-9.15	97.46	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	570	G	N1-C6-O6	9.15	125.39	119.90
1	N	1355	G	C5-C6-O6	-9.15	123.11	128.60
1	N	191	G	N1-C2-N3	-9.15	118.41	123.90
1	N	1386	G	N1-C6-O6	9.15	125.39	119.90
1	N	126	G	O4'-C1'-N9	9.14	115.52	108.20
1	N	301	G	C8-N9-C4	-9.14	102.74	106.40
1	N	483	C	N3-C4-N4	9.14	124.40	118.00
1	N	954	G	C5-C6-N1	-9.14	106.93	111.50
1	N	1237	C	C2-N3-C4	9.14	124.47	119.90
1	N	294	U	O4'-C1'-N1	9.14	115.51	108.20
1	N	983	A	C2-N3-C4	-9.14	106.03	110.60
1	N	56	U	N1-C2-N3	9.13	120.38	114.90
1	N	1186	G	C5-C6-N1	-9.13	106.93	111.50
1	N	1240	U	C5-C6-N1	-9.13	118.14	122.70
1	N	434	U	O4'-C1'-N1	9.13	115.50	108.20
1	N	869	G	N1-C6-O6	9.13	125.38	119.90
1	N	869	G	C6-C5-N7	-9.13	124.92	130.40
1	N	197	A	O4'-C1'-N9	9.13	115.50	108.20
1	N	171	A	O4'-C1'-N9	9.12	115.50	108.20
1	N	1511	G	N9-C4-C5	9.12	109.05	105.40
1	N	348	G	C8-N9-C4	9.12	110.05	106.40
1	N	926	G	C6-C5-N7	-9.12	124.93	130.40
1	N	39	G	C5-C6-O6	-9.12	123.13	128.60
1	N	1080	A	N1-C2-N3	9.12	133.86	129.30
1	N	1117	A	C5-N7-C8	9.12	108.46	103.90
1	N	227	G	C4-C5-C6	9.12	124.27	118.80
1	N	356	A	N1-C2-N3	-9.12	124.74	129.30
1	N	499	A	C5-C6-N1	-9.12	113.14	117.70
1	N	1275	A	C5-C6-N1	-9.12	113.14	117.70
1	N	758	C	N3-C4-N4	9.11	124.38	118.00
1	N	1522	U	O4'-C1'-N1	9.12	115.49	108.20
1	N	100	G	N1-C6-O6	9.11	125.37	119.90
1	N	744	C	C2-N3-C4	9.11	124.46	119.90
1	N	884	U	O4'-C1'-N1	9.11	115.49	108.20
1	N	1493	A	C5-C6-N6	-9.11	116.41	123.70
1	N	322	C	C6-N1-C2	-9.11	116.66	120.30
1	N	894	G	N1-C2-N3	-9.11	118.44	123.90
1	N	1342	C	N3-C4-N4	9.11	124.38	118.00
1	N	988	G	C2-N3-C4	9.11	116.45	111.90
1	N	161	A	C6-N1-C2	9.10	124.06	118.60
1	N	1379	G	O4'-C1'-N9	9.10	115.48	108.20
1	N	65	A	N1-C2-N3	9.10	133.85	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	153	C	N3-C4-N4	9.10	124.37	118.00
1	N	232	G	C6-C5-N7	-9.10	124.94	130.40
1	N	601	G	P-O3'-C3'	-9.10	108.78	119.70
1	N	1028	C	N3-C4-N4	9.10	124.37	118.00
1	N	1086	U	O5'-C5'-C4'	9.10	128.99	111.70
1	N	646	G	C5-C6-O6	-9.10	123.14	128.60
1	N	1236	A	C5-C6-N6	-9.10	116.42	123.70
1	N	1371	G	C6-C5-N7	-9.10	124.94	130.40
1	N	417	G	O4'-C1'-N9	9.09	115.47	108.20
1	N	910	C	N3-C4-N4	9.09	124.36	118.00
1	N	600	A	O4'-C1'-N9	9.09	115.47	108.20
1	N	906	A	O4'-C1'-N9	9.09	115.47	108.20
1	N	1044	A	N1-C6-N6	9.09	124.06	118.60
1	N	1516	G	C5-C6-O6	-9.09	123.14	128.60
1	N	99	C	C4-C5-C6	9.09	121.94	117.40
1	N	105	G	N3-C4-N9	-9.09	120.55	126.00
1	N	186	C	N3-C4-C5	-9.09	118.27	121.90
1	N	581	G	P-O5'-C5'	9.09	135.44	120.90
1	N	645	G	O4'-C1'-N9	9.09	115.47	108.20
1	N	1486	G	O4'-C1'-N9	9.09	115.47	108.20
1	N	663	A	C5-C6-N1	-9.09	113.16	117.70
1	N	699	C	N3-C4-C5	-9.08	118.27	121.90
1	N	1511	G	O4'-C1'-N9	9.08	115.47	108.20
1	N	754	C	C5-C6-N1	9.08	125.54	121.00
1	N	1332	A	O4'-C1'-N9	9.08	115.46	108.20
1	N	200	G	O4'-C4'-C3'	-9.08	94.92	104.00
1	N	364	A	C4-C5-N7	-9.08	106.16	110.70
1	N	712	A	C5-C6-N6	-9.08	116.44	123.70
1	N	259	G	N1-C6-O6	9.07	125.34	119.90
1	N	266	G	N1-C2-N3	-9.07	118.46	123.90
1	N	526	C	O4'-C1'-N1	9.07	115.46	108.20
1	N	531	U	C5-C6-N1	9.07	127.24	122.70
1	N	741	G	O4'-C1'-N9	9.07	115.46	108.20
1	N	1005	A	C4-C5-C6	9.07	121.54	117.00
1	N	67	C	P-O3'-C3'	9.07	130.59	119.70
1	N	703	G	C5-C6-O6	-9.07	123.16	128.60
1	N	546	A	C2-N3-C4	9.07	115.13	110.60
1	N	1270	G	C8-N9-C4	9.07	110.03	106.40
1	N	7	A	C5-C6-N6	-9.06	116.45	123.70
1	N	352	C	P-O3'-C3'	9.06	130.57	119.70
1	N	32	A	O4'-C1'-N9	9.06	115.45	108.20
1	N	797	C	P-O3'-C3'	9.06	130.57	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1404	C	P-O3'-C3'	9.06	130.57	119.70
1	N	143	A	C5-C6-N1	-9.06	113.17	117.70
1	N	566	G	C5-C6-N1	-9.06	106.97	111.50
1	N	1091	U	C5-C4-O4	-9.06	120.47	125.90
1	N	438	U	N3-C2-O2	9.06	128.54	122.20
1	N	523	A	O4'-C1'-N9	9.06	115.44	108.20
1	N	493	A	N1-C2-N3	9.05	133.83	129.30
1	N	528	C	N3-C4-C5	-9.05	118.28	121.90
1	N	231	U	O4'-C1'-N1	9.05	115.44	108.20
1	N	452	A	C5-C6-N1	-9.05	113.17	117.70
1	N	748	G	C5-C6-O6	-9.05	123.17	128.60
1	N	792	A	O4'-C1'-N9	9.05	115.44	108.20
1	N	591	U	O4'-C1'-N1	9.04	115.44	108.20
1	N	423	G	N1-C6-O6	9.04	125.33	119.90
1	N	1110	A	P-O3'-C3'	9.04	130.55	119.70
1	N	1120	C	O4'-C1'-N1	9.04	115.43	108.20
1	N	246	A	P-O3'-C3'	9.04	130.55	119.70
1	N	566	G	C6-C5-N7	-9.04	124.98	130.40
1	N	792	A	N1-C6-N6	9.04	124.02	118.60
1	N	671	G	C5-C6-O6	-9.04	123.18	128.60
1	N	990	C	N3-C4-N4	9.04	124.33	118.00
1	N	116	A	C5-C6-N6	-9.03	116.47	123.70
1	N	534	U	O4'-C1'-N1	9.03	115.42	108.20
1	N	784	A	O4'-C1'-N9	9.03	115.42	108.20
1	N	662	U	O4'-C1'-N1	9.03	115.42	108.20
1	N	1502	A	C4-C5-N7	-9.03	106.19	110.70
1	N	285	C	C6-N1-C2	-9.03	116.69	120.30
1	N	288	A	C5-N7-C8	9.03	108.41	103.90
1	N	468	A	P-O3'-C3'	9.03	130.53	119.70
1	N	767	A	C5-C6-N6	-9.02	116.48	123.70
1	N	346	G	N9-C4-C5	-9.02	101.79	105.40
1	N	906	A	N1-C2-N3	9.02	133.81	129.30
1	N	330	C	O4'-C1'-N1	9.01	115.41	108.20
1	N	1004	A	O4'-C1'-N9	9.01	115.41	108.20
1	N	560	A	C5-C6-N6	-9.01	116.49	123.70
1	N	688	G	N1-C6-O6	9.01	125.31	119.90
1	N	908	A	C4-C5-N7	-9.01	106.19	110.70
1	N	973	G	C5-C6-O6	-9.01	123.19	128.60
1	N	1190	G	O5'-P-OP2	-9.01	97.59	105.70
1	N	2	A	C5-N7-C8	9.01	108.41	103.90
1	N	651	C	C2-N1-C1'	9.01	128.71	118.80
1	N	1130	A	N1-C2-N3	9.01	133.81	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1278	G	N1-C6-O6	9.01	125.31	119.90
1	N	489	C	N3-C4-C5	-9.01	118.30	121.90
1	N	626	G	C2-N3-C4	9.01	116.40	111.90
1	N	74	A	C5-C6-N1	-9.01	113.20	117.70
1	N	1277	C	C5-C4-N4	-9.01	113.89	120.20
1	N	1311	A	N9-C4-C5	9.01	109.40	105.80
1	N	78	A	C8-N9-C4	-9.01	102.20	105.80
1	N	198	G	N3-C2-N2	9.01	126.20	119.90
1	N	232	G	N1-C6-O6	9.01	125.30	119.90
1	N	569	C	P-O3'-C3'	9.00	130.50	119.70
1	N	929	G	C6-C5-N7	-9.00	125.00	130.40
1	N	1041	G	C4-C5-N7	-9.00	107.20	110.80
1	N	1422	G	C5-C6-N1	-9.00	107.00	111.50
1	N	422	C	C5'-C4'-O4'	9.00	119.90	109.10
1	N	618	C	O4'-C1'-N1	9.00	115.40	108.20
1	N	1505	G	C8-N9-C4	-9.00	102.80	106.40
1	N	321	A	C5-C6-N6	-9.00	116.50	123.70
1	N	347	G	N1-C6-O6	9.00	125.30	119.90
1	N	1364	U	C6-N1-C2	-9.00	115.60	121.00
1	N	1347	G	C4-C5-C6	8.99	124.20	118.80
1	N	228	A	C5-C6-N6	-8.99	116.51	123.70
1	N	1012	A	C2-N3-C4	-8.99	106.11	110.60
1	N	962	C	C5-C6-N1	8.99	125.50	121.00
1	N	962	C	N3-C4-N4	8.99	124.29	118.00
1	N	211	G	O4'-C1'-N9	8.98	115.39	108.20
1	N	791	G	N3-C2-N2	8.98	126.19	119.90
1	N	1262	C	O4'-C1'-N1	8.98	115.38	108.20
1	N	66	A	N1-C6-N6	8.98	123.99	118.60
1	N	378	G	N1-C6-O6	8.98	125.29	119.90
1	N	500	G	C5-C6-O6	-8.98	123.21	128.60
1	N	145	G	N1-C6-O6	8.97	125.28	119.90
1	N	588	G	C5-C6-N1	-8.97	107.01	111.50
1	N	795	C	N3-C4-N4	8.97	124.28	118.00
1	N	737	C	N3-C4-N4	8.97	124.28	118.00
1	N	1036	A	P-O3'-C3'	8.97	130.47	119.70
1	N	761	G	N1-C6-O6	8.97	125.28	119.90
1	N	1508	A	N1-C6-N6	8.97	123.98	118.60
1	N	572	A	C5-C6-N6	-8.97	116.53	123.70
1	N	1222	G	N3-C2-N2	8.97	126.18	119.90
1	N	606	G	C4-C5-N7	8.97	114.39	110.80
1	N	778	G	N1-C6-O6	8.97	125.28	119.90
1	N	970	C	N3-C4-C5	-8.97	118.31	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	352	C	C6-N1-C2	8.96	123.89	120.30
1	N	1045	C	C5-C4-N4	-8.96	113.93	120.20
1	N	1110	A	N7-C8-N9	-8.96	109.32	113.80
1	N	184	G	C4-C5-C6	8.96	124.18	118.80
1	N	77	A	C5-C6-N1	-8.96	113.22	117.70
1	N	101	A	C5-C6-N6	-8.96	116.53	123.70
1	N	151	A	C5-N7-C8	8.96	108.38	103.90
1	N	155	A	C4-C5-N7	-8.96	106.22	110.70
1	N	1287	A	C5-C6-N6	-8.96	116.53	123.70
1	N	900	A	C4-C5-C6	8.95	121.48	117.00
1	N	81	A	N9-C4-C5	8.95	109.38	105.80
1	N	584	G	N1-C6-O6	8.95	125.27	119.90
1	N	667	G	N7-C8-N9	8.95	117.58	113.10
1	N	886	G	C8-N9-C4	-8.95	102.82	106.40
1	N	903	G	N1-C6-O6	8.95	125.27	119.90
1	N	1446	A	P-O5'-C5'	-8.95	106.58	120.90
1	N	1279	G	C5-C6-N1	-8.95	107.03	111.50
1	N	425	G	O4'-C1'-N9	8.95	115.36	108.20
1	N	767	A	C8-N9-C4	8.95	109.38	105.80
1	N	1046	A	O4'-C1'-N9	8.94	115.36	108.20
1	N	760	G	N3-C2-N2	8.94	126.16	119.90
1	N	842	U	P-O5'-C5'	8.94	135.21	120.90
1	N	1269	A	N1-C6-N6	8.94	123.97	118.60
1	N	818	G	N1-C6-O6	8.94	125.26	119.90
1	N	864	A	N1-C2-N3	8.94	133.77	129.30
1	N	168	G	N1-C2-N3	-8.94	118.54	123.90
1	N	938	A	O4'-C1'-N9	8.94	115.35	108.20
1	N	1473	G	C1'-O4'-C4'	8.94	117.05	109.90
1	N	983	A	N9-C4-C5	-8.93	102.23	105.80
1	N	1174	G	C6-C5-N7	-8.93	125.04	130.40
1	N	1190	G	N1-C2-N3	-8.93	118.54	123.90
1	N	198	G	C2-N3-C4	-8.93	107.44	111.90
1	N	1019	A	C5-N7-C8	8.93	108.36	103.90
1	N	660	C	N3-C4-C5	-8.93	118.33	121.90
1	N	1092	A	C5'-C4'-C3'	8.93	130.28	116.00
1	N	1255	G	N1-C6-O6	8.93	125.26	119.90
1	N	9	G	C5-C6-N1	-8.92	107.04	111.50
1	N	258	G	C5-C6-O6	-8.92	123.25	128.60
1	N	53	A	C4-C5-N7	-8.92	106.24	110.70
1	N	732	C	N3-C4-C5	-8.92	118.33	121.90
1	N	780	A	C4-C5-C6	8.92	121.46	117.00
1	N	6	G	C5-C6-O6	-8.92	123.25	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	299	G	N3-C4-C5	-8.92	124.14	128.60
1	N	310	G	C4-C5-N7	8.92	114.37	110.80
1	N	458	U	N3-C4-C5	-8.92	109.25	114.60
1	N	922	G	C5-C6-O6	-8.92	123.25	128.60
1	N	151	A	C4-C5-N7	-8.91	106.24	110.70
1	N	661	G	O4'-C1'-N9	8.91	115.33	108.20
1	N	978	A	C8-N9-C4	-8.91	102.23	105.80
1	N	1297	G	N3-C2-N2	8.91	126.14	119.90
1	N	63	C	N3-C4-C5	-8.91	118.34	121.90
1	N	383	A	C5-C6-N6	-8.91	116.57	123.70
1	N	670	G	O4'-C1'-N9	8.91	115.33	108.20
1	N	468	A	C5-N7-C8	8.91	108.36	103.90
1	N	1110	A	C5-N7-C8	8.91	108.36	103.90
1	N	23	C	C6-N1-C2	-8.91	116.74	120.30
1	N	235	C	O4'-C1'-N1	8.91	115.33	108.20
1	N	1305	G	N3-C2-N2	8.91	126.14	119.90
1	N	50	A	O4'-C1'-N9	8.90	115.32	108.20
1	N	184	G	P-O5'-C5'	8.90	135.15	120.90
1	N	628	G	N3-C2-N2	8.90	126.13	119.90
1	N	677	U	N3-C4-C5	-8.90	109.26	114.60
1	N	667	G	C4-C5-N7	-8.90	107.24	110.80
1	N	731	G	N1-C2-N3	-8.90	118.56	123.90
1	N	48	C	O4'-C1'-N1	8.90	115.32	108.20
1	N	1017	U	O4'-C1'-N1	8.90	115.32	108.20
1	N	692	U	C4-C5-C6	-8.90	114.36	119.70
1	N	705	G	C6-N1-C2	8.90	130.44	125.10
1	N	1343	G	C8-N9-C4	-8.90	102.84	106.40
1	N	396	C	N3-C4-N4	8.89	124.23	118.00
1	N	549	C	C4-C5-C6	8.89	121.85	117.40
1	N	640	A	N1-C6-N6	8.89	123.94	118.60
1	N	1174	G	N1-C2-N3	-8.89	118.56	123.90
1	N	73	C	C6-N1-C1'	8.89	131.47	120.80
1	N	853	C	C5-C4-N4	-8.89	113.98	120.20
1	N	299	G	N1-C6-O6	8.89	125.23	119.90
1	N	1363	A	C5-C6-N1	-8.89	113.25	117.70
1	N	144	G	N1-C2-N3	-8.89	118.57	123.90
1	N	743	A	C5-C6-N6	-8.89	116.59	123.70
1	N	806	C	C2-N1-C1'	8.89	128.58	118.80
1	N	1079	G	N1-C6-O6	8.89	125.23	119.90
1	N	1301	U	N3-C2-O2	8.89	128.42	122.20
1	N	1201	A	C4-C5-C6	8.89	121.44	117.00
1	N	1355	G	N1-C6-O6	8.89	125.23	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	125	U	C5-C6-N1	8.88	127.14	122.70
1	N	779	C	O4'-C1'-N1	8.88	115.31	108.20
1	N	536	C	C5-C4-N4	-8.88	113.98	120.20
1	N	1061	G	O4'-C1'-N9	8.88	115.31	108.20
1	N	1285	A	O4'-C1'-N9	8.88	115.30	108.20
1	N	154	U	O4'-C1'-N1	8.88	115.30	108.20
1	N	913	A	C5-C6-N1	-8.88	113.26	117.70
1	N	217	C	N3-C4-C5	-8.88	118.35	121.90
1	N	1266	G	C5-C6-O6	-8.88	123.28	128.60
1	N	1281	C	O4'-C1'-N1	8.88	115.30	108.20
1	N	1309	G	C5-C6-O6	-8.87	123.28	128.60
1	N	1346	A	P-O3'-C3'	8.88	130.35	119.70
1	N	42	G	C4-C5-N7	-8.87	107.25	110.80
1	N	350	G	C5-N7-C8	-8.87	99.86	104.30
1	N	1496	C	O4'-C1'-N1	8.87	115.29	108.20
1	N	21	G	C3'-C2'-C1'	8.87	108.59	101.50
1	N	149	A	C8-N9-C4	-8.87	102.25	105.80
1	N	651	C	C6-N1-C2	-8.87	116.75	120.30
1	N	567	G	C6-N1-C2	-8.86	119.78	125.10
1	N	905	U	C2-N3-C4	-8.86	121.68	127.00
1	N	73	C	C2-N1-C1'	-8.86	109.05	118.80
1	N	590	U	P-O5'-C5'	8.86	135.08	120.90
1	N	802	A	P-O3'-C3'	8.86	130.33	119.70
1	N	52	C	N3-C4-N4	8.86	124.20	118.00
1	N	988	G	N3-C2-N2	8.86	126.10	119.90
1	N	547	A	C5-C6-N6	-8.85	116.62	123.70
1	N	784	A	N1-C2-N3	-8.85	124.88	129.30
1	N	112	G	O4'-C1'-N9	8.85	115.28	108.20
1	N	494	G	N1-C6-O6	8.85	125.21	119.90
1	N	449	G	C5-C6-N1	-8.85	107.08	111.50
1	N	880	C	N3-C4-N4	8.85	124.19	118.00
1	N	1243	C	O4'-C1'-N1	8.85	115.28	108.20
1	N	1464	U	N1-C2-N3	-8.85	109.59	114.90
1	N	1119	C	N3-C4-N4	8.84	124.19	118.00
1	N	1497	G	C6-N1-C2	8.84	130.41	125.10
1	N	199	A	O4'-C1'-N9	8.84	115.27	108.20
1	N	834	U	O4'-C1'-N1	8.84	115.27	108.20
1	N	597	G	C4'-C3'-C2'	-8.84	93.76	102.60
1	N	969	A	C2-N3-C4	8.84	115.02	110.60
1	N	778	G	C2-N3-C4	8.84	116.32	111.90
1	N	1276	G	O4'-C1'-N9	8.84	115.27	108.20
1	N	1348	U	O4'-C1'-N1	8.84	115.27	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1050	G	C5-C6-O6	-8.83	123.30	128.60
1	N	51	A	O4'-C1'-C2'	-8.83	96.97	105.80
1	N	58	C	C6-N1-C2	-8.83	116.77	120.30
1	N	62	U	C2-N3-C4	8.83	132.30	127.00
1	N	104	G	C8-N9-C4	-8.83	102.87	106.40
1	N	233	C	N3-C4-C5	-8.83	118.37	121.90
1	N	558	G	C5-C6-N1	-8.83	107.08	111.50
1	N	1112	C	N3-C4-C5	-8.83	118.37	121.90
1	N	921	U	N1-C2-N3	-8.83	109.60	114.90
1	N	1443	C	C6-N1-C2	-8.83	116.77	120.30
1	N	35	G	C4-C5-C6	8.82	124.09	118.80
1	N	802	A	O4'-C1'-N9	8.82	115.26	108.20
1	N	235	C	C5-C6-N1	8.82	125.41	121.00
1	N	1094	G	N1-C2-N3	-8.82	118.61	123.90
1	N	1185	G	C4-C5-N7	-8.82	107.27	110.80
1	N	598	U	C5-C4-O4	-8.82	120.61	125.90
1	N	214	C	O4'-C1'-N1	8.82	115.25	108.20
1	N	685	G	C6-N1-C2	8.82	130.39	125.10
1	N	288	A	N9-C4-C5	8.82	109.33	105.80
1	N	701	U	P-O5'-C5'	8.81	135.00	120.90
1	N	413	G	N7-C8-N9	8.81	117.50	113.10
1	N	1070	U	C4'-C3'-C2'	-8.81	93.79	102.60
1	N	1423	G	C4-C5-N7	8.81	114.32	110.80
1	N	415	A	C4-C5-C6	8.81	121.41	117.00
1	N	143	A	C4-C5-C6	8.81	121.40	117.00
1	N	788	U	C2-N3-C4	8.81	132.28	127.00
1	N	508	U	C2-N3-C4	-8.80	121.72	127.00
1	N	894	G	C5-C6-N1	-8.81	107.10	111.50
1	N	1127	G	C5-C6-N1	-8.81	107.10	111.50
1	N	580	C	O4'-C1'-N1	8.80	115.24	108.20
1	N	709	U	N1-C2-N3	-8.80	109.62	114.90
1	N	774	G	O4'-C1'-N9	8.80	115.24	108.20
1	N	1032	G	C5-C6-N1	-8.80	107.10	111.50
1	N	1080	A	C5-C6-N6	-8.80	116.66	123.70
1	N	466	A	C8-N9-C4	-8.80	102.28	105.80
1	N	1187	G	N1-C6-O6	8.80	125.18	119.90
1	N	557	G	C8-N9-C4	-8.80	102.88	106.40
1	N	503	C	N3-C4-N4	8.80	124.16	118.00
1	N	597	G	N3-C2-N2	8.80	126.06	119.90
1	N	927	G	N3-C2-N2	8.80	126.06	119.90
1	N	100	G	C5-C6-N1	-8.80	107.10	111.50
1	N	200	G	C4-C5-N7	8.79	114.32	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	380	G	C8-N9-C1'	8.79	138.43	127.00
1	N	824	G	N1-C2-N3	-8.79	118.62	123.90
1	N	1026	G	C2-N3-C4	8.79	116.30	111.90
1	N	1182	G	N1-C2-N2	8.79	124.11	116.20
1	N	134	G	N9-C4-C5	-8.79	101.88	105.40
1	N	1061	G	N9-C4-C5	8.79	108.92	105.40
1	N	334	C	O4'-C1'-N1	8.79	115.23	108.20
1	N	548	G	N1-C6-O6	8.79	125.17	119.90
1	N	1149	C	N3-C4-C5	-8.79	118.39	121.90
1	N	69	G	C3'-C2'-C1'	8.78	108.53	101.50
1	N	507	C	N1-C2-N3	-8.78	113.05	119.20
1	N	954	G	C8-N9-C4	-8.78	102.89	106.40
1	N	924	C	N1-C2-N3	-8.78	113.06	119.20
1	N	1300	G	C5-C6-O6	-8.78	123.33	128.60
1	N	1517	G	C8-N9-C4	-8.78	102.89	106.40
1	N	392	C	C6-N1-C2	-8.78	116.79	120.30
1	N	933	G	C4-C5-N7	8.78	114.31	110.80
1	N	200	G	O4'-C1'-N9	8.77	115.22	108.20
1	N	553	A	C4-C5-C6	8.77	121.39	117.00
1	N	817	C	N3-C4-N4	8.77	124.14	118.00
1	N	709	U	O4'-C1'-N1	8.77	115.22	108.20
1	N	304	U	O4'-C1'-N1	8.77	115.22	108.20
1	N	305	G	N1-C2-N3	-8.77	118.64	123.90
1	N	1093	A	C5-C6-N6	-8.77	116.68	123.70
1	N	1290	G	C2-N3-C4	8.77	116.28	111.90
1	N	1531	A	P-O5'-C5'	8.77	134.93	120.90
1	N	341	C	C2-N3-C4	8.77	124.28	119.90
1	N	949	A	C5-C6-N1	-8.77	113.32	117.70
1	N	659	U	C5-C4-O4	-8.77	120.64	125.90
1	N	726	C	O4'-C1'-N1	8.77	115.21	108.20
1	N	840	C	C5-C6-N1	8.77	125.38	121.00
1	N	923	A	N1-C6-N6	8.77	123.86	118.60
1	N	292	G	O4'-C1'-N9	8.76	115.21	108.20
1	N	211	G	C4'-C3'-C2'	8.76	111.36	102.60
1	N	237	G	C8-N9-C4	8.76	109.90	106.40
1	N	764	C	O4'-C1'-N1	8.76	115.21	108.20
1	N	1034	G	O4'-C1'-N9	8.76	115.21	108.20
1	N	1093	A	C8-N9-C4	-8.76	102.30	105.80
1	N	890	G	N3-C2-N2	8.75	126.03	119.90
1	N	408	A	C8-N9-C4	-8.75	102.30	105.80
1	N	738	C	C6-N1-C2	-8.75	116.80	120.30
1	N	80	A	C4-C5-C6	8.75	121.38	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	241	G	O4'-C4'-C3'	-8.75	95.25	104.00
1	N	95	C	N3-C4-N4	8.75	124.12	118.00
1	N	566	G	P-O3'-C3'	8.75	130.20	119.70
1	N	873	A	C6-C5-N7	-8.75	126.17	132.30
1	N	913	A	N1-C6-N6	8.75	123.85	118.60
1	N	1025	U	N1-C2-N3	-8.75	109.65	114.90
1	N	1349	A	C5-C6-N1	-8.75	113.33	117.70
1	N	686	U	C5'-C4'-O4'	8.74	119.59	109.10
1	N	1139	G	N1-C6-O6	8.74	125.15	119.90
1	N	682	G	O4'-C1'-N9	8.74	115.19	108.20
1	N	724	G	C8-N9-C4	-8.74	102.90	106.40
1	N	778	G	C5-C6-O6	-8.74	123.36	128.60
1	N	1107	C	N3-C4-N4	8.74	124.12	118.00
1	N	33	A	C5-N7-C8	8.74	108.27	103.90
1	N	21	G	C2-N3-C4	8.73	116.27	111.90
1	N	860	A	O4'-C1'-N9	8.73	115.19	108.20
1	N	926	G	N1-C6-O6	8.73	125.14	119.90
1	N	1256	A	N7-C8-N9	-8.73	109.43	113.80
1	N	1282	C	C6-N1-C2	-8.73	116.81	120.30
1	N	322	C	N3-C4-N4	8.73	124.11	118.00
1	N	636	U	C5-C6-N1	-8.72	118.34	122.70
1	N	1526	G	C5-C6-N1	-8.72	107.14	111.50
1	N	307	C	C2-N1-C1'	8.72	128.39	118.80
1	N	594	U	N3-C2-O2	8.72	128.30	122.20
1	N	1139	G	P-O3'-C3'	8.72	130.16	119.70
1	N	1483	A	C5-C6-N6	-8.72	116.72	123.70
1	N	1073	U	N3-C4-C5	-8.72	109.37	114.60
1	N	60	A	C5-C6-N6	-8.72	116.73	123.70
1	N	232	G	C2-N3-C4	8.72	116.26	111.90
1	N	863	U	C5-C6-N1	8.72	127.06	122.70
1	N	590	U	O4'-C1'-N1	8.71	115.17	108.20
1	N	1218	C	O4'-C1'-N1	8.71	115.17	108.20
1	N	1516	G	C8-N9-C4	8.71	109.89	106.40
1	N	1047	G	C5-C6-O6	-8.71	123.38	128.60
1	N	1409	C	N1-C2-O2	8.70	124.12	118.90
1	N	1467	C	C6-N1-C2	-8.71	116.82	120.30
1	N	896	C	O4'-C1'-N1	8.70	115.16	108.20
1	N	1352	C	N1-C2-O2	8.70	124.12	118.90
1	N	30	U	P-O3'-C3'	8.70	130.14	119.70
1	N	442	G	N9-C4-C5	-8.70	101.92	105.40
1	N	200	G	C6-C5-N7	-8.69	125.18	130.40
1	N	265	G	C5-C6-O6	-8.70	123.38	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	939	G	C4-C5-C6	8.69	124.02	118.80
1	N	994	A	C5-C6-N1	-8.69	113.35	117.70
1	N	1294	G	N1-C2-N3	-8.69	118.68	123.90
1	N	596	A	C6-C5-N7	-8.69	126.22	132.30
1	N	1362	A	O4'-C1'-N9	8.69	115.15	108.20
1	N	661	G	N1-C6-O6	8.69	125.11	119.90
1	N	273	U	C1'-O4'-C4'	8.69	116.85	109.90
1	N	398	U	O4'-C1'-N1	8.69	115.15	108.20
1	N	501	C	C5-C4-N4	-8.69	114.12	120.20
1	N	765	G	N1-C6-O6	8.69	125.11	119.90
1	N	892	A	N1-C6-N6	8.69	123.81	118.60
1	N	629	A	C4'-C3'-C2'	-8.68	93.92	102.60
1	N	644	U	N3-C2-O2	8.68	128.28	122.20
1	N	1354	U	P-O3'-C3'	-8.68	109.28	119.70
1	N	52	C	C2-N3-C4	8.68	124.24	119.90
1	N	943	U	O4'-C1'-N1	8.68	115.14	108.20
1	N	1187	G	O4'-C1'-N9	8.68	115.14	108.20
1	N	867	G	O4'-C1'-N9	8.68	115.14	108.20
1	N	1182	G	N3-C2-N2	-8.68	113.83	119.90
1	N	1465	A	P-O3'-C3'	8.68	130.11	119.70
1	N	329	A	N1-C6-N6	8.68	123.81	118.60
1	N	925	G	C5-C6-O6	-8.68	123.39	128.60
1	N	1457	G	C5-C6-O6	-8.68	123.39	128.60
1	N	398	U	C5-C6-N1	8.67	127.04	122.70
1	N	1200	C	O4'-C1'-N1	8.67	115.14	108.20
1	N	1341	U	C5-C6-N1	8.67	127.04	122.70
1	N	299	G	C5-C6-O6	-8.67	123.40	128.60
1	N	1001	C	C5-C4-N4	-8.67	114.13	120.20
1	N	123	U	P-O5'-C5'	-8.67	107.03	120.90
1	N	1175	G	O4'-C1'-N9	8.67	115.13	108.20
1	N	1277	C	O4'-C1'-N1	8.67	115.13	108.20
1	N	1477	U	C5-C6-N1	8.67	127.03	122.70
1	N	313	A	C2-N3-C4	-8.66	106.27	110.60
1	N	588	G	C4-C5-C6	8.66	124.00	118.80
1	N	115	G	N1-C6-O6	8.66	125.10	119.90
1	N	314	C	O4'-C1'-N1	8.66	115.13	108.20
1	N	567	G	N9-C4-C5	8.66	108.86	105.40
1	N	1143	G	P-O3'-C3'	8.66	130.09	119.70
1	N	1211	U	O4'-C1'-N1	8.66	115.13	108.20
1	N	227	G	C5-C6-O6	-8.66	123.41	128.60
1	N	744	C	N1-C2-O2	8.66	124.09	118.90
1	N	1310	G	N9-C4-C5	-8.66	101.94	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1433	A	O3'-P-O5'	-8.66	87.55	104.00
1	N	752	G	C3'-C2'-C1'	8.65	108.42	101.50
1	N	852	G	N1-C2-N2	-8.65	108.41	116.20
1	N	939	G	C2-N3-C4	-8.65	107.57	111.90
1	N	1101	A	C4'-C3'-C2'	8.65	111.25	102.60
1	N	132	C	O4'-C1'-N1	8.65	115.12	108.20
1	N	30	U	C1'-O4'-C4'	8.65	116.82	109.90
1	N	266	G	N1-C6-O6	8.65	125.09	119.90
1	N	1355	G	N9-C1'-C2'	-8.65	102.49	112.00
1	N	1422	G	N1-C2-N3	-8.65	118.71	123.90
1	N	196	A	C2-N3-C4	-8.64	106.28	110.60
1	N	307	C	C1'-O4'-C4'	-8.64	102.99	109.90
1	N	1215	G	N3-C2-N2	8.64	125.95	119.90
1	N	1230	C	C5-C6-N1	8.64	125.32	121.00
1	N	238	A	O4'-C1'-N9	8.64	115.11	108.20
1	N	1219	A	O4'-C1'-N9	8.64	115.11	108.20
1	N	596	A	P-O5'-C5'	8.64	134.72	120.90
1	N	1343	G	N1-C6-O6	8.64	125.08	119.90
1	N	1484	C	C3'-C2'-C1'	8.64	108.41	101.50
1	N	366	A	C5-C6-N1	-8.64	113.38	117.70
1	N	1141	C	O4'-C1'-N1	8.64	115.11	108.20
1	N	1174	G	C4-C5-N7	8.64	114.25	110.80
1	N	1533	C	O4'-C1'-N1	8.64	115.11	108.20
1	N	748	G	N3-C4-C5	-8.63	124.28	128.60
1	N	772	U	C6-N1-C2	-8.63	115.82	121.00
1	N	1120	C	C5-C6-N1	8.64	125.32	121.00
1	N	1424	U	N3-C4-O4	8.64	125.44	119.40
1	N	1456	A	P-O3'-C3'	8.63	130.06	119.70
1	N	1458	G	C4-C5-C6	8.63	123.98	118.80
1	N	569	C	C4-C5-C6	-8.63	113.08	117.40
1	N	949	A	C4-C5-C6	8.63	121.31	117.00
1	N	90	C	P-O5'-C5'	8.63	134.70	120.90
1	N	803	G	N7-C8-N9	-8.63	108.79	113.10
1	N	791	G	C6-N1-C2	8.62	130.27	125.10
1	N	1516	G	N3-C4-C5	8.62	132.91	128.60
1	N	830	G	N1-C6-O6	8.62	125.07	119.90
1	N	1153	G	P-O3'-C3'	-8.62	109.36	119.70
1	N	1183	U	N1-C2-O2	-8.62	116.77	122.80
1	N	1304	G	C5-C6-O6	-8.62	123.43	128.60
1	N	526	C	N3-C4-N4	8.62	124.03	118.00
1	N	1448	C	P-O3'-C3'	8.62	130.04	119.70
1	N	288	A	C5-C6-N6	-8.61	116.81	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1034	G	C5-C6-O6	-8.61	123.43	128.60
1	N	1038	C	O4'-C1'-N1	8.61	115.09	108.20
1	N	765	G	C8-N9-C4	-8.61	102.96	106.40
1	N	1287	A	C4-C5-C6	8.61	121.31	117.00
1	N	276	G	C5-C6-N1	-8.61	107.20	111.50
1	N	678	U	N1-C2-N3	-8.61	109.74	114.90
1	N	1064	G	P-O5'-C5'	-8.61	107.13	120.90
1	N	149	A	N1-C2-N3	8.60	133.60	129.30
1	N	203	G	N1-C2-N3	-8.60	118.74	123.90
1	N	717	U	C5-C4-O4	-8.60	120.74	125.90
1	N	1217	C	O4'-C1'-N1	8.60	115.08	108.20
1	N	1223	C	C2-N3-C4	8.60	124.20	119.90
1	N	253	A	C6-C5-N7	-8.60	126.28	132.30
1	N	413	G	O4'-C1'-C2'	-8.60	97.20	105.80
1	N	1239	A	N7-C8-N9	-8.60	109.50	113.80
1	N	1534	A	C6-C5-N7	-8.60	126.28	132.30
1	N	899	C	C2-N3-C4	8.60	124.20	119.90
1	N	1069	C	O4'-C1'-N1	8.60	115.08	108.20
1	N	1284	C	C2-N3-C4	-8.60	115.60	119.90
1	N	222	C	O4'-C1'-N1	8.59	115.08	108.20
1	N	291	U	C5-C6-N1	8.59	127.00	122.70
1	N	522	C	N3-C4-C5	-8.59	118.46	121.90
1	N	534	U	C6-N1-C2	-8.59	115.84	121.00
1	N	1154	G	C6-C5-N7	-8.59	125.24	130.40
1	N	121	U	N3-C4-O4	8.59	125.41	119.40
1	N	567	G	O4'-C1'-N9	8.59	115.07	108.20
1	N	595	A	N1-C2-N3	8.59	133.59	129.30
1	N	95	C	O4'-C1'-N1	8.59	115.07	108.20
1	N	261	U	N1-C1'-C2'	-8.59	102.55	112.00
1	N	1177	G	C6-N1-C2	8.59	130.25	125.10
1	N	132	C	N3-C4-C5	-8.58	118.47	121.90
1	N	350	G	N1-C6-O6	8.58	125.05	119.90
1	N	584	G	C5-C6-O6	-8.58	123.45	128.60
1	N	1120	C	C2-N1-C1'	8.58	128.24	118.80
1	N	1518	A	C5-C6-N6	-8.58	116.84	123.70
1	N	206	C	C2-N1-C1'	8.58	128.24	118.80
1	N	393	A	C5-C6-N1	-8.58	113.41	117.70
1	N	314	C	N3-C4-N4	8.58	124.00	118.00
1	N	1228	C	C5-C6-N1	8.58	125.29	121.00
1	N	1365	G	C6-C5-N7	-8.58	125.25	130.40
1	N	1398	A	N1-C6-N6	8.58	123.75	118.60
1	N	44	A	C2-N3-C4	-8.57	106.31	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1515	G	C8-N9-C4	-8.57	102.97	106.40
1	N	878	A	C5-C6-N1	-8.57	113.41	117.70
1	N	140	U	N1-C2-N3	-8.57	109.76	114.90
1	N	1123	U	N3-C4-O4	8.57	125.40	119.40
1	N	119	A	C4-C5-C6	8.57	121.28	117.00
1	N	1270	G	N1-C6-O6	8.57	125.04	119.90
1	N	235	C	C6-N1-C2	-8.57	116.87	120.30
1	N	813	U	P-O3'-C3'	-8.56	109.42	119.70
1	N	896	C	N3-C4-N4	8.56	123.99	118.00
1	N	1216	A	C5-N7-C8	8.56	108.18	103.90
1	N	542	G	P-O3'-C3'	-8.56	109.43	119.70
1	N	62	U	C4'-C3'-C2'	-8.56	94.04	102.60
1	N	907	A	N1-C2-N3	8.56	133.58	129.30
1	N	1009	U	N3-C2-O2	8.56	128.19	122.20
1	N	1417	G	C4-C5-C6	8.56	123.94	118.80
1	N	237	G	N9-C4-C5	-8.56	101.98	105.40
1	N	854	U	C5-C4-O4	-8.56	120.77	125.90
1	N	1230	C	C6-N1-C2	-8.56	116.88	120.30
1	N	767	A	O4'-C1'-N9	8.55	115.04	108.20
1	N	1221	G	C6-N1-C2	8.55	130.23	125.10
1	N	1060	U	N3-C4-O4	8.55	125.39	119.40
1	N	1092	A	N1-C2-N3	8.55	133.58	129.30
1	N	1216	A	C5-C6-N6	-8.55	116.86	123.70
1	N	34	C	O4'-C1'-N1	8.55	115.04	108.20
1	N	1030	U	N1-C2-N3	-8.55	109.77	114.90
1	N	1218	C	N3-C2-O2	8.55	127.89	121.90
1	N	345	C	N3-C4-C5	-8.55	118.48	121.90
1	N	772	U	C5-C4-O4	8.55	131.03	125.90
1	N	899	C	N3-C4-N4	8.55	123.98	118.00
1	N	682	G	C5-C6-O6	-8.54	123.47	128.60
1	N	1378	C	C5-C4-N4	-8.55	114.22	120.20
1	N	806	C	N3-C2-O2	8.54	127.88	121.90
1	N	41	G	N3-C4-C5	-8.54	124.33	128.60
1	N	901	A	C5-C6-N1	-8.54	113.43	117.70
1	N	993	G	P-O3'-C3'	8.54	129.95	119.70
1	N	1101	A	C5'-C4'-O4'	8.54	119.35	109.10
1	N	413	G	C5-C6-O6	-8.54	123.48	128.60
1	N	461	A	O4'-C1'-N9	8.54	115.03	108.20
1	N	1151	A	C2-N3-C4	-8.54	106.33	110.60
1	N	435	A	C5-C6-N6	-8.53	116.87	123.70
1	N	1238	A	C5-C6-N6	8.53	130.53	123.70
1	N	1404	C	P-O5'-C5'	8.53	134.55	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1473	G	O4'-C1'-N9	8.53	115.02	108.20
1	N	653	U	N3-C4-O4	8.53	125.37	119.40
1	N	658	C	C2-N3-C4	8.53	124.16	119.90
1	N	1052	U	O4'-C1'-N1	8.53	115.02	108.20
1	N	475	C	C4-C5-C6	-8.53	113.14	117.40
1	N	718	A	P-O3'-C3'	8.53	129.93	119.70
1	N	958	A	O4'-C1'-N9	8.53	115.02	108.20
1	N	1186	G	C5'-C4'-C3'	8.52	129.64	116.00
1	N	1390	U	O4'-C1'-N1	8.52	115.02	108.20
1	N	595	A	P-O5'-C5'	8.52	134.53	120.90
1	N	963	G	N1-C6-O6	8.52	125.01	119.90
1	N	317	U	C5-C6-N1	8.52	126.96	122.70
1	N	348	G	N7-C8-N9	-8.52	108.84	113.10
1	N	761	G	C5-C6-O6	-8.52	123.49	128.60
1	N	886	G	O4'-C4'-C3'	-8.52	95.48	104.00
1	N	1205	U	N3-C4-C5	-8.52	109.49	114.60
1	N	1386	G	C5-C6-O6	-8.52	123.49	128.60
1	N	8	A	C5-C6-N1	-8.52	113.44	117.70
1	N	359	G	N9-C4-C5	-8.52	101.99	105.40
1	N	574	A	C2-N3-C4	-8.52	106.34	110.60
1	N	685	G	N1-C6-O6	8.52	125.01	119.90
1	N	1509	C	C5-C4-N4	-8.52	114.24	120.20
1	N	39	G	C4-C5-N7	8.51	114.21	110.80
1	N	228	A	C5-C6-N1	-8.51	113.44	117.70
1	N	896	C	N3-C4-C5	-8.51	118.50	121.90
1	N	1364	U	C2-N1-C1'	8.51	127.91	117.70
1	N	299	G	C5-N7-C8	8.51	108.56	104.30
1	N	315	A	C2-N3-C4	-8.51	106.34	110.60
1	N	579	A	O4'-C1'-N9	8.51	115.01	108.20
1	N	980	C	O4'-C1'-N1	8.51	115.01	108.20
1	N	510	A	O4'-C1'-N9	8.51	115.00	108.20
1	N	579	A	C8-N9-C4	-8.51	102.40	105.80
1	N	1171	A	C5-C6-N1	-8.51	113.45	117.70
1	N	683	G	N1-C2-N3	-8.51	118.80	123.90
1	N	1140	C	C6-N1-C2	8.51	123.70	120.30
1	N	1505	G	C2-N3-C4	8.51	116.15	111.90
1	N	949	A	C5-N7-C8	8.50	108.15	103.90
1	N	666	G	C5-C6-O6	-8.50	123.50	128.60
1	N	1144	G	P-O3'-C3'	8.50	129.90	119.70
1	N	493	A	C2-N3-C4	-8.50	106.35	110.60
1	N	1259	C	P-O5'-C5'	8.50	134.50	120.90
1	N	385	C	O4'-C1'-N1	8.50	115.00	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	537	G	C6-N1-C2	8.50	130.20	125.10
1	N	676	A	N1-C6-N6	8.50	123.70	118.60
1	N	1227	A	C8-N9-C4	8.50	109.20	105.80
1	N	699	C	O4'-C1'-N1	8.49	115.00	108.20
1	N	871	U	C5'-C4'-C3'	8.49	129.59	116.00
1	N	713	G	C3'-C2'-C1'	-8.49	94.71	101.50
1	N	127	G	N1-C2-N3	-8.49	118.81	123.90
1	N	655	A	C6-N1-C2	8.49	123.69	118.60
1	N	787	A	C5-C6-N6	-8.49	116.91	123.70
1	N	176	C	N3-C4-N4	8.49	123.94	118.00
1	N	1432	G	N9-C4-C5	-8.49	102.00	105.40
1	N	342	C	N3-C4-C5	-8.48	118.51	121.90
1	N	376	G	C5-C6-O6	-8.48	123.51	128.60
1	N	286	C	O4'-C1'-N1	8.48	114.98	108.20
1	N	1442	G	C5-C6-O6	-8.48	123.51	128.60
1	N	729	A	P-O5'-C5'	8.48	134.46	120.90
1	N	939	G	C6-C5-N7	-8.47	125.32	130.40
1	N	1252	A	N1-C6-N6	8.47	123.69	118.60
1	N	1096	C	O4'-C1'-N1	8.47	114.98	108.20
1	N	775	G	N1-C2-N2	8.47	123.83	116.20
1	N	1160	G	N9-C1'-C2'	-8.47	102.68	112.00
1	N	98	A	P-O5'-C5'	8.47	134.45	120.90
1	N	411	A	N1-C6-N6	8.47	123.68	118.60
1	N	1419	G	N1-C6-O6	8.47	124.98	119.90
1	N	1486	G	C8-N9-C4	-8.47	103.01	106.40
1	N	592	G	N1-C6-O6	8.47	124.98	119.90
1	N	1183	U	N3-C4-O4	8.47	125.33	119.40
1	N	416	G	N3-C2-N2	8.46	125.83	119.90
1	N	1091	U	N3-C4-O4	8.46	125.33	119.40
1	N	1272	G	N1-C2-N3	-8.46	118.82	123.90
1	N	1353	G	O4'-C1'-N9	8.46	114.97	108.20
1	N	705	G	N1-C6-O6	8.46	124.98	119.90
1	N	1078	U	C4'-C3'-C2'	-8.46	94.14	102.60
1	N	272	C	O4'-C1'-N1	8.46	114.97	108.20
1	N	796	C	C6-N1-C1'	-8.46	110.65	120.80
1	N	122	G	C5-N7-C8	-8.46	100.07	104.30
1	N	163	C	N3-C4-C5	-8.46	118.52	121.90
1	N	380	G	N9-C4-C5	8.46	108.78	105.40
1	N	845	A	C5-C6-N6	-8.46	116.93	123.70
1	N	1007	U	C3'-C2'-C1'	8.46	108.27	101.50
1	N	84	U	C2-N1-C1'	8.46	127.85	117.70
1	N	450	G	C6-N1-C2	8.46	130.17	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	551	U	N3-C4-O4	8.46	125.32	119.40
1	N	944	G	O4'-C1'-N9	8.46	114.96	108.20
1	N	1016	A	N1-C6-N6	8.45	123.67	118.60
1	N	885	G	N9-C4-C5	8.45	108.78	105.40
1	N	1169	A	C6-C5-N7	-8.45	126.38	132.30
1	N	965	U	N3-C4-O4	8.45	125.31	119.40
1	N	1231	G	N7-C8-N9	8.45	117.32	113.10
1	N	146	G	C4-C5-C6	8.45	123.87	118.80
1	N	1276	G	N1-C6-O6	8.45	124.97	119.90
1	N	1177	G	C5-C6-N1	-8.44	107.28	111.50
1	N	1194	U	C1'-O4'-C4'	-8.44	103.15	109.90
1	N	1441	A	C8-N9-C4	-8.44	102.42	105.80
1	N	10	A	C4-C5-N7	-8.44	106.48	110.70
1	N	271	C	C6-N1-C2	8.44	123.68	120.30
1	N	1090	U	O4'-C1'-N1	8.44	114.95	108.20
1	N	1178	G	C5-C6-O6	-8.44	123.54	128.60
1	N	380	G	C8-N9-C4	-8.44	103.03	106.40
1	N	992	U	C5'-C4'-C3'	8.44	129.50	116.00
1	N	392	C	C2-N1-C1'	8.44	128.08	118.80
1	N	843	U	N3-C4-O4	8.44	125.31	119.40
1	N	332	G	C5-N7-C8	-8.44	100.08	104.30
1	N	846	G	O4'-C1'-N9	8.43	114.95	108.20
1	N	322	C	C5-C4-N4	-8.43	114.30	120.20
1	N	233	C	N3-C4-N4	8.43	123.90	118.00
1	N	1459	G	C5-C6-O6	-8.43	123.54	128.60
1	N	350	G	O4'-C1'-N9	8.43	114.94	108.20
1	N	403	C	C4'-C3'-C2'	-8.43	94.17	102.60
1	N	881	G	O4'-C1'-N9	8.43	114.94	108.20
1	N	1034	G	C2-N3-C4	8.43	116.11	111.90
1	N	1510	C	C5-C4-N4	-8.43	114.30	120.20
1	N	303	A	C5-C6-N1	-8.43	113.49	117.70
1	N	594	U	N3-C4-C5	-8.43	109.54	114.60
1	N	247	G	O4'-C1'-N9	8.43	114.94	108.20
1	N	390	U	O4'-C1'-N1	8.43	114.94	108.20
1	N	197	A	C5'-C4'-C3'	8.42	129.48	116.00
1	N	356	A	O4'-C1'-N9	8.42	114.94	108.20
1	N	1492	A	N9-C4-C5	8.42	109.17	105.80
1	N	758	C	C5-C6-N1	8.42	125.21	121.00
1	N	95	C	C2-N3-C4	8.42	124.11	119.90
1	N	806	C	N3-C4-N4	8.42	123.89	118.00
1	N	966	G	C1'-O4'-C4'	-8.42	103.17	109.90
1	N	963	G	P-O3'-C3'	-8.42	109.60	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1351	U	C2-N3-C4	-8.42	121.95	127.00
1	N	109	A	C5-C6-N6	-8.41	116.97	123.70
1	N	1318	A	C4-C5-N7	-8.41	106.49	110.70
1	N	261	U	P-O5'-C5'	8.41	134.36	120.90
1	N	1045	C	N3-C4-N4	8.41	123.89	118.00
1	N	1199	U	P-O5'-C5'	8.41	134.36	120.90
1	N	1225	A	N1-C6-N6	8.41	123.65	118.60
1	N	1408	A	N1-C6-N6	8.41	123.65	118.60
1	N	41	G	N3-C4-N9	8.41	131.05	126.00
1	N	143	A	C5-N7-C8	8.41	108.11	103.90
1	N	366	A	C6-C5-N7	-8.41	126.41	132.30
1	N	546	A	N1-C6-N6	8.41	123.65	118.60
1	N	487	A	C6-C5-N7	-8.41	126.41	132.30
1	N	64	G	N1-C6-O6	8.41	124.94	119.90
1	N	105	G	C5-C6-O6	-8.41	123.56	128.60
1	N	1472	U	N3-C4-C5	-8.41	109.56	114.60
1	N	128	G	C4-C5-C6	8.40	123.84	118.80
1	N	157	U	O4'-C1'-N1	8.40	114.92	108.20
1	N	1107	C	N3-C4-C5	-8.40	118.54	121.90
1	N	308	C	C2-N3-C4	8.40	124.10	119.90
1	N	551	U	C5-C4-O4	-8.40	120.86	125.90
1	N	1414	U	N1-C2-O2	-8.40	116.92	122.80
1	N	1476	A	N7-C8-N9	8.40	118.00	113.80
1	N	718	A	O4'-C1'-N9	8.40	114.92	108.20
1	N	1187	G	C5-N7-C8	8.40	108.50	104.30
1	N	1288	A	N9-C4-C5	8.40	109.16	105.80
1	N	1524	C	N3-C4-C5	8.40	125.26	121.90
1	N	224	U	O4'-C1'-N1	8.39	114.91	108.20
1	N	346	G	C8-N9-C4	8.39	109.76	106.40
1	N	841	C	N3-C4-N4	8.39	123.88	118.00
1	N	1161	C	N3-C4-N4	8.39	123.88	118.00
1	N	334	C	C6-N1-C2	-8.39	116.94	120.30
1	N	1054	C	N1-C2-O2	8.39	123.94	118.90
1	N	670	G	C5-C6-O6	-8.39	123.57	128.60
1	N	1269	A	O4'-C1'-N9	8.39	114.91	108.20
1	N	876	C	O4'-C1'-N1	8.38	114.91	108.20
1	N	923	A	C4-C5-C6	8.38	121.19	117.00
1	N	1401	G	N1-C6-O6	8.38	124.93	119.90
1	N	841	C	C5-C6-N1	8.38	125.19	121.00
1	N	336	A	O4'-C1'-N9	8.38	114.90	108.20
1	N	580	C	P-O5'-C5'	8.38	134.31	120.90
1	N	1156	G	C4-C5-N7	8.38	114.15	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	21	G	N1-C6-O6	8.38	124.92	119.90
1	N	516	U	C5-C4-O4	-8.38	120.87	125.90
1	N	467	U	C6-N1-C2	-8.37	115.98	121.00
1	N	1323	G	C4-C5-N7	8.38	114.15	110.80
1	N	69	G	N9-C1'-C2'	8.37	124.89	114.00
1	N	371	A	C5-C6-N6	-8.37	117.00	123.70
1	N	925	G	C2-N3-C4	-8.37	107.72	111.90
1	N	1232	U	N3-C2-O2	8.37	128.06	122.20
1	N	1194	U	C5-C6-N1	8.37	126.89	122.70
1	N	81	A	P-O5'-C5'	8.37	134.28	120.90
1	N	436	C	N3-C4-C5	-8.37	118.55	121.90
1	N	1033	G	C5-C6-N1	-8.37	107.32	111.50
1	N	689	C	P-O3'-C3'	-8.36	109.66	119.70
1	N	765	G	C5-C6-N1	-8.36	107.32	111.50
1	N	897	C	C5-C6-N1	8.37	125.18	121.00
1	N	1303	C	N3-C4-C5	-8.36	118.55	121.90
1	N	1442	G	N9-C4-C5	-8.37	102.05	105.40
1	N	125	U	N3-C2-O2	8.36	128.05	122.20
1	N	336	A	N1-C6-N6	8.36	123.62	118.60
1	N	976	G	C5-C6-O6	-8.36	123.58	128.60
1	N	120	A	O4'-C1'-C2'	-8.36	97.44	105.80
1	N	524	G	C6-C5-N7	-8.36	125.38	130.40
1	N	983	A	O4'-C1'-N9	8.36	114.89	108.20
1	N	51	A	C1'-O4'-C4'	8.36	116.59	109.90
1	N	1201	A	N1-C6-N6	8.36	123.62	118.60
1	N	281	G	N9-C4-C5	-8.36	102.06	105.40
1	N	281	G	N7-C8-N9	-8.36	108.92	113.10
1	N	404	G	C4-C5-N7	8.36	114.14	110.80
1	N	728	A	C4-C5-N7	-8.36	106.52	110.70
1	N	11	G	N9-C4-C5	-8.36	102.06	105.40
1	N	1149	C	O4'-C1'-N1	8.36	114.89	108.20
1	N	140	U	N3-C4-O4	8.35	125.25	119.40
1	N	211	G	P-O3'-C3'	8.35	129.72	119.70
1	N	383	A	P-O3'-C3'	8.35	129.72	119.70
1	N	771	G	N3-C4-N9	8.35	131.01	126.00
1	N	1150	A	C4-C5-C6	8.35	121.18	117.00
1	N	1263	C	N3-C4-N4	8.35	123.85	118.00
1	N	239	U	C2-N1-C1'	8.35	127.72	117.70
1	N	472	U	N3-C4-C5	-8.35	109.59	114.60
1	N	477	C	O4'-C1'-N1	8.35	114.88	108.20
1	N	1085	U	C5-C4-O4	8.35	130.91	125.90
1	N	548	G	C5-C6-O6	-8.35	123.59	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1127	G	C5-C6-O6	-8.35	123.59	128.60
1	N	105	G	C4'-C3'-C2'	-8.35	94.25	102.60
1	N	307	C	C5-C6-N1	8.35	125.17	121.00
1	N	503	C	O4'-C1'-N1	8.35	114.88	108.20
1	N	1344	C	N3-C4-N4	8.35	123.84	118.00
1	N	466	A	C2-N3-C4	8.34	114.77	110.60
1	N	1067	A	N7-C8-N9	-8.34	109.63	113.80
1	N	712	A	O4'-C1'-N9	8.34	114.87	108.20
1	N	372	C	O4'-C1'-N1	8.34	114.87	108.20
1	N	663	A	C5-N7-C8	8.34	108.07	103.90
1	N	1000	A	N1-C6-N6	8.33	123.60	118.60
1	N	1365	G	O4'-C1'-N9	8.33	114.87	108.20
1	N	278	G	N3-C4-C5	8.33	132.76	128.60
1	N	681	A	N1-C2-N3	8.33	133.46	129.30
1	N	475	C	O4'-C1'-N1	8.33	114.86	108.20
1	N	642	A	C5-C6-N1	-8.33	113.54	117.70
1	N	72	A	O4'-C1'-N9	8.32	114.86	108.20
1	N	1035	A	C5-C6-N6	-8.32	117.04	123.70
1	N	12	U	N3-C4-C5	-8.32	109.61	114.60
1	N	14	U	O4'-C1'-N1	8.32	114.86	108.20
1	N	217	C	C5-C4-N4	-8.32	114.38	120.20
1	N	926	G	N3-C2-N2	8.32	125.72	119.90
1	N	1465	A	N1-C6-N6	8.32	123.59	118.60
1	N	253	A	C5-C6-N1	-8.32	113.54	117.70
1	N	94	G	C6-C5-N7	-8.32	125.41	130.40
1	N	560	A	C4-C5-C6	8.32	121.16	117.00
1	N	378	G	O4'-C1'-N9	8.32	114.85	108.20
1	N	562	U	P-O3'-C3'	8.32	129.68	119.70
1	N	607	A	N7-C8-N9	-8.32	109.64	113.80
1	N	1482	G	N1-C2-N3	-8.32	118.91	123.90
1	N	1516	G	N3-C2-N2	8.32	125.72	119.90
1	N	91	U	C5'-C4'-O4'	-8.31	99.12	109.10
1	N	448	A	O4'-C1'-N9	8.31	114.85	108.20
1	N	894	G	C4-C5-N7	8.31	114.13	110.80
1	N	413	G	C8-N9-C4	-8.31	103.08	106.40
1	N	23	C	O4'-C1'-N1	8.31	114.85	108.20
1	N	77	A	C6-C5-N7	-8.31	126.48	132.30
1	N	433	G	N1-C6-O6	8.31	124.88	119.90
1	N	871	U	O4'-C4'-C3'	-8.31	95.69	104.00
1	N	1319	A	C2-N3-C4	-8.31	106.45	110.60
1	N	452	A	C4-C5-C6	8.30	121.15	117.00
1	N	1064	G	C5-N7-C8	8.30	108.45	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	399	G	N3-C4-C5	8.30	132.75	128.60
1	N	397	A	C8-N9-C4	-8.30	102.48	105.80
1	N	1128	C	O4'-C1'-N1	8.30	114.84	108.20
1	N	486	U	O4'-C1'-N1	8.30	114.84	108.20
1	N	548	G	C4-N9-C1'	8.29	137.28	126.50
1	N	1439	G	N1-C6-O6	8.29	124.88	119.90
1	N	270	A	P-O5'-C5'	8.29	134.17	120.90
1	N	281	G	C5-C6-O6	-8.29	123.62	128.60
1	N	302	G	N1-C2-N3	-8.29	118.92	123.90
1	N	1091	U	P-O3'-C3'	8.29	129.65	119.70
1	N	1187	G	N1-C2-N3	-8.29	118.92	123.90
1	N	729	A	C6-N1-C2	8.29	123.57	118.60
1	N	1414	U	C6-N1-C2	-8.29	116.03	121.00
1	N	165	G	O4'-C1'-N9	8.29	114.83	108.20
1	N	531	U	C1'-O4'-C4'	-8.29	103.27	109.90
1	N	547	A	C5-N7-C8	8.29	108.04	103.90
1	N	916	U	N1-C2-O2	8.29	128.60	122.80
1	N	1219	A	C5-C6-N6	-8.29	117.07	123.70
1	N	704	A	N9-C4-C5	8.28	109.11	105.80
1	N	1241	G	C5'-C4'-C3'	-8.28	102.75	116.00
1	N	1444	U	O4'-C1'-N1	8.28	114.83	108.20
1	N	1505	G	C6-N1-C2	8.28	130.07	125.10
1	N	313	A	C4-C5-C6	8.28	121.14	117.00
1	N	357	G	N1-C6-O6	8.28	124.87	119.90
1	N	687	A	N7-C8-N9	-8.28	109.66	113.80
1	N	121	U	N3-C4-C5	-8.28	109.63	114.60
1	N	878	A	P-O5'-C5'	8.28	134.14	120.90
1	N	928	G	O4'-C1'-N9	8.28	114.82	108.20
1	N	1417	G	P-O3'-C3'	8.28	129.63	119.70
1	N	1273	C	N3-C4-N4	8.28	123.79	118.00
1	N	703	G	N3-C2-N2	8.27	125.69	119.90
1	N	746	A	C5-C6-N1	-8.27	113.56	117.70
1	N	801	U	C5-C4-O4	8.27	130.86	125.90
1	N	1394	A	C5-N7-C8	8.27	108.04	103.90
1	N	788	U	P-O5'-C5'	8.27	134.13	120.90
1	N	544	G	C8-N9-C4	8.27	109.71	106.40
1	N	790	A	O4'-C1'-N9	8.27	114.81	108.20
1	N	1078	U	O4'-C1'-N1	8.27	114.81	108.20
1	N	1255	G	O4'-C1'-N9	8.27	114.81	108.20
1	N	1377	A	O4'-C1'-N9	8.27	114.81	108.20
1	N	1484	C	O4'-C1'-N1	8.27	114.82	108.20
1	N	40	C	N3-C4-N4	8.27	123.79	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	886	G	C4-C5-C6	8.27	123.76	118.80
1	N	914	A	C5'-C4'-C3'	-8.27	102.78	116.00
1	N	1042	A	O4'-C1'-N9	8.27	114.81	108.20
1	N	1423	G	N1-C6-O6	8.27	124.86	119.90
1	N	318	G	O4'-C1'-N9	8.26	114.81	108.20
1	N	1356	G	C2-N3-C4	-8.26	107.77	111.90
1	N	433	G	C6-N1-C2	8.26	130.06	125.10
1	N	5	U	O4'-C4'-C3'	-8.26	95.74	104.00
1	N	240	G	C5-C6-O6	-8.26	123.64	128.60
1	N	408	A	N1-C2-N3	8.26	133.43	129.30
1	N	224	U	C4'-C3'-C2'	-8.26	94.34	102.60
1	N	323	U	N3-C4-C5	-8.26	109.64	114.60
1	N	376	G	N7-C8-N9	-8.26	108.97	113.10
1	N	1294	G	C2-N3-C4	8.26	116.03	111.90
1	N	1311	A	C4-C5-C6	8.26	121.13	117.00
1	N	1334	G	O4'-C1'-N9	8.26	114.81	108.20
1	N	560	A	C5-C6-N1	-8.25	113.57	117.70
1	N	745	G	O4'-C1'-N9	8.25	114.80	108.20
1	N	136	C	C6-N1-C2	8.25	123.60	120.30
1	N	596	A	O4'-C1'-N9	8.25	114.80	108.20
1	N	1520	C	C2-N3-C4	8.25	124.03	119.90
1	N	103	U	N3-C4-O4	8.25	125.17	119.40
1	N	129	A	C8-N9-C4	8.25	109.10	105.80
1	N	536	C	C5-C6-N1	-8.25	116.88	121.00
1	N	716	A	C5-C6-N1	-8.25	113.58	117.70
1	N	993	G	C5-N7-C8	-8.25	100.18	104.30
1	N	405	U	C5-C6-N1	8.24	126.82	122.70
1	N	798	U	C2-N3-C4	-8.24	122.05	127.00
1	N	1020	G	N1-C2-N3	-8.24	118.95	123.90
1	N	1174	G	C6-N1-C2	8.24	130.05	125.10
1	N	1487	G	N1-C6-O6	8.24	124.85	119.90
1	N	38	G	N1-C6-O6	8.24	124.84	119.90
1	N	671	G	N1-C2-N3	-8.24	118.95	123.90
1	N	110	C	N3-C4-C5	-8.24	118.60	121.90
1	N	847	G	N7-C8-N9	8.24	117.22	113.10
1	N	1152	A	N1-C6-N6	8.24	123.54	118.60
1	N	1166	G	O4'-C1'-N9	8.24	114.79	108.20
1	N	1446	A	C5-C6-N6	-8.24	117.11	123.70
1	N	42	G	N1-C6-O6	8.24	124.84	119.90
1	N	74	A	C8-N9-C4	-8.24	102.51	105.80
1	N	348	G	C4-C5-C6	8.24	123.74	118.80
1	N	1082	A	C5-C6-N6	-8.24	117.11	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	447	G	O4'-C1'-N9	8.23	114.79	108.20
1	N	1292	G	C5-N7-C8	8.23	108.42	104.30
1	N	1120	C	P-O3'-C3'	-8.23	109.82	119.70
1	N	1214	C	C5-C6-N1	8.23	125.12	121.00
1	N	483	C	C5-C4-N4	-8.23	114.44	120.20
1	N	500	G	N1-C6-O6	8.23	124.84	119.90
1	N	509	A	P-O3'-C3'	8.23	129.57	119.70
1	N	343	U	N3-C4-C5	-8.23	109.67	114.60
1	N	1109	C	O4'-C1'-N1	8.23	114.78	108.20
1	N	1360	A	C8-N9-C4	-8.23	102.51	105.80
1	N	1459	G	C8-N9-C4	8.23	109.69	106.40
1	N	922	G	C5-N7-C8	8.22	108.41	104.30
1	N	1085	U	C2-N3-C4	8.22	131.94	127.00
1	N	448	A	C5-C6-N6	-8.22	117.12	123.70
1	N	604	G	N3-C2-N2	8.22	125.66	119.90
1	N	685	G	N9-C4-C5	-8.22	102.11	105.40
1	N	173	U	N1-C2-O2	-8.22	117.05	122.80
1	N	859	G	O4'-C1'-N9	8.22	114.78	108.20
1	N	1279	G	C6-C5-N7	-8.22	125.47	130.40
1	N	254	G	N1-C6-O6	8.22	124.83	119.90
1	N	841	C	C6-N1-C1'	-8.22	110.94	120.80
1	N	1262	C	N3-C4-C5	-8.22	118.61	121.90
1	N	1336	C	C1'-O4'-C4'	-8.22	103.33	109.90
1	N	1451	U	O4'-C1'-N1	8.22	114.78	108.20
1	N	1267	C	O4'-C1'-N1	8.22	114.77	108.20
1	N	351	G	N1-C6-O6	8.21	124.83	119.90
1	N	1119	C	O4'-C1'-N1	8.21	114.77	108.20
1	N	1230	C	C2-N3-C4	8.21	124.01	119.90
1	N	119	A	N1-C6-N6	8.21	123.53	118.60
1	N	778	G	O4'-C1'-N9	8.21	114.77	108.20
1	N	1042	A	C6-N1-C2	-8.21	113.68	118.60
1	N	1274	A	C8-N9-C4	-8.21	102.52	105.80
1	N	1414	U	C5-C6-N1	8.21	126.80	122.70
1	N	1448	C	C6-N1-C2	-8.21	117.02	120.30
1	N	1226	C	N3-C2-O2	8.20	127.64	121.90
1	N	901	A	C5-C6-N6	-8.20	117.14	123.70
1	N	296	U	N1-C2-N3	8.20	119.82	114.90
1	N	454	G	C8-N9-C4	-8.20	103.12	106.40
1	N	815	A	O4'-C1'-N9	8.20	114.76	108.20
1	N	1417	G	C6-C5-N7	-8.20	125.48	130.40
1	N	467	U	C5-C4-O4	-8.20	120.98	125.90
1	N	1231	G	C5-N7-C8	-8.20	100.20	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	508	U	C4'-C3'-C2'	8.20	110.80	102.60
1	N	1031	C	O4'-C1'-N1	8.19	114.75	108.20
1	N	1236	A	C4-C5-C6	8.20	121.10	117.00
1	N	12	U	O4'-C1'-N1	8.19	114.75	108.20
1	N	736	C	C4'-C3'-C2'	-8.19	94.41	102.60
1	N	1458	G	C5-C6-N1	-8.19	107.40	111.50
1	N	94	G	C8-N9-C4	8.19	109.68	106.40
1	N	642	A	N7-C8-N9	8.19	117.89	113.80
1	N	263	A	C5-C6-N6	-8.19	117.15	123.70
1	N	1169	A	N1-C6-N6	8.19	123.51	118.60
1	N	1458	G	N3-C2-N2	8.19	125.63	119.90
1	N	1493	A	C4-C5-C6	8.19	121.09	117.00
1	N	1511	G	C2-N3-C4	8.19	115.99	111.90
1	N	320	A	C5-C6-N1	-8.19	113.61	117.70
1	N	327	A	N1-C6-N6	8.19	123.51	118.60
1	N	818	G	C5-C6-O6	-8.19	123.69	128.60
1	N	134	G	C5'-C4'-O4'	8.18	118.92	109.10
1	N	617	G	C5-C6-N1	-8.18	107.41	111.50
1	N	714	G	N9-C4-C5	-8.18	102.13	105.40
1	N	1520	C	N3-C4-C5	-8.18	118.63	121.90
1	N	27	G	O4'-C1'-N9	8.18	114.74	108.20
1	N	583	A	C2-N3-C4	8.18	114.69	110.60
1	N	958	A	N9-C4-C5	8.18	109.07	105.80
1	N	66	A	C8-N9-C4	-8.18	102.53	105.80
1	N	266	G	C5-N7-C8	-8.18	100.21	104.30
1	N	1440	U	C6-N1-C2	-8.18	116.09	121.00
1	N	10	A	N1-C6-N6	8.18	123.50	118.60
1	N	279	A	C3'-C2'-C1'	8.18	108.04	101.50
1	N	160	A	C8-N9-C4	8.17	109.07	105.80
1	N	604	G	N1-C6-O6	8.17	124.80	119.90
1	N	909	A	C5-N7-C8	8.17	107.99	103.90
1	N	105	G	N3-C4-C5	8.17	132.69	128.60
1	N	423	G	C5-C6-O6	-8.17	123.70	128.60
1	N	982	U	C3'-C2'-C1'	8.17	108.04	101.50
1	N	1333	A	C4-C5-N7	-8.17	106.61	110.70
1	N	1392	G	N9-C4-C5	8.17	108.67	105.40
1	N	1489	G	C6-N1-C2	-8.17	120.20	125.10
1	N	316	C	C2-N3-C4	-8.17	115.82	119.90
1	N	339	C	C5'-C4'-O4'	8.17	118.90	109.10
1	N	1333	A	N9-C4-C5	8.17	109.07	105.80
1	N	1138	G	N1-C6-O6	8.17	124.80	119.90
1	N	313	A	N1-C2-N3	8.16	133.38	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	612	C	C6-N1-C2	8.16	123.56	120.30
1	N	864	A	N1-C6-N6	8.16	123.50	118.60
1	N	1328	C	N3-C4-C5	-8.16	118.64	121.90
1	N	639	G	C6-N1-C2	-8.16	120.20	125.10
1	N	1000	A	O4'-C4'-C3'	-8.16	95.84	104.00
1	N	1316	G	N1-C6-O6	8.16	124.80	119.90
1	N	1009	U	O4'-C1'-N1	8.16	114.73	108.20
1	N	1073	U	N3-C4-O4	8.16	125.11	119.40
1	N	78	A	C5-C6-N6	-8.16	117.17	123.70
1	N	234	C	C5-C6-N1	8.16	125.08	121.00
1	N	1142	G	C5-N7-C8	8.16	108.38	104.30
1	N	142	G	O4'-C1'-N9	8.16	114.72	108.20
1	N	1104	G	N3-C4-C5	-8.16	124.52	128.60
1	N	233	C	O4'-C1'-N1	8.15	114.72	108.20
1	N	729	A	O4'-C1'-N9	8.15	114.72	108.20
1	N	684	U	N3-C4-C5	-8.15	109.71	114.60
1	N	780	A	C5-N7-C8	-8.15	99.83	103.90
1	N	918	A	O4'-C1'-N9	8.14	114.72	108.20
1	N	1436	U	C5'-C4'-C3'	8.14	129.03	116.00
1	N	594	U	C6-N1-C1'	-8.14	109.81	121.20
1	N	966	G	O4'-C1'-N9	8.14	114.71	108.20
1	N	159	G	C5-C6-O6	-8.14	123.72	128.60
1	N	33	A	C4-C5-C6	8.13	121.07	117.00
1	N	266	G	N7-C8-N9	8.13	117.17	113.10
1	N	689	C	C6-N1-C2	-8.14	117.05	120.30
1	N	969	A	N3-C4-C5	-8.13	121.11	126.80
1	N	1503	A	O4'-C1'-N9	8.14	114.71	108.20
1	N	973	G	N3-C2-N2	8.13	125.59	119.90
1	N	778	G	C6-C5-N7	-8.13	125.52	130.40
1	N	809	G	C4-C5-C6	8.13	123.68	118.80
1	N	1441	A	N9-C4-C5	8.13	109.05	105.80
1	N	335	C	P-O5'-C5'	8.13	133.91	120.90
1	N	341	C	O4'-C1'-N1	8.13	114.70	108.20
1	N	1052	U	C1'-O4'-C4'	8.13	116.40	109.90
1	N	900	A	O4'-C1'-N9	8.13	114.70	108.20
1	N	959	A	N1-C6-N6	8.13	123.48	118.60
1	N	990	C	O4'-C1'-N1	8.13	114.70	108.20
1	N	493	A	N1-C6-N6	8.12	123.47	118.60
1	N	319	G	C5'-C4'-C3'	-8.12	103.00	116.00
1	N	983	A	N1-C2-N3	8.12	133.36	129.30
1	N	1018	G	P-O3'-C3'	8.12	129.45	119.70
1	N	197	A	N1-C6-N6	8.12	123.47	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1030	U	N1-C2-O2	8.12	128.48	122.80
1	N	410	G	O4'-C1'-N9	8.12	114.69	108.20
1	N	481	G	C5-C6-O6	-8.12	123.73	128.60
1	N	802	A	C8-N9-C4	-8.12	102.55	105.80
1	N	1140	C	C4-C5-C6	8.11	121.46	117.40
1	N	1317	C	C5-C6-N1	-8.11	116.94	121.00
1	N	1480	A	C4-C5-C6	8.11	121.06	117.00
1	N	168	G	C5-N7-C8	8.11	108.35	104.30
1	N	375	U	O4'-C1'-N1	8.11	114.69	108.20
1	N	164	G	C5-C6-O6	-8.11	123.74	128.60
1	N	956	U	N3-C2-O2	8.11	127.88	122.20
1	N	1183	U	O4'-C1'-N1	8.11	114.69	108.20
1	N	494	G	C3'-C2'-C1'	8.10	107.98	101.50
1	N	978	A	N1-C2-N3	8.10	133.35	129.30
1	N	1492	A	N1-C6-N6	8.10	123.46	118.60
1	N	484	G	C2-N3-C4	-8.10	107.85	111.90
1	N	1137	C	O4'-C1'-N1	8.10	114.68	108.20
1	N	1371	G	C4-C5-C6	8.10	123.66	118.80
1	N	1419	G	N9-C4-C5	8.10	108.64	105.40
1	N	130	A	C5-N7-C8	-8.10	99.85	103.90
1	N	872	A	O4'-C1'-N9	8.10	114.68	108.20
1	N	925	G	C4-C5-N7	8.10	114.04	110.80
1	N	1328	C	C1'-O4'-C4'	8.10	116.38	109.90
1	N	149	A	C5-N7-C8	8.09	107.95	103.90
1	N	443	C	N3-C4-C5	-8.09	118.66	121.90
1	N	753	A	C5-N7-C8	8.09	107.94	103.90
1	N	1344	C	N3-C4-C5	-8.09	118.66	121.90
1	N	1000	A	N9-C4-C5	8.09	109.03	105.80
1	N	1042	A	C5-C6-N6	-8.09	117.23	123.70
1	N	1180	A	C6-N1-C2	-8.09	113.75	118.60
1	N	39	G	C2-N3-C4	-8.09	107.86	111.90
1	N	16	A	O4'-C1'-N9	8.08	114.67	108.20
1	N	324	G	C8-N9-C4	-8.08	103.17	106.40
1	N	399	G	C4-C5-N7	8.08	114.03	110.80
1	N	128	G	O4'-C1'-N9	8.08	114.66	108.20
1	N	837	U	P-O3'-C3'	-8.08	110.00	119.70
1	N	1385	G	O4'-C1'-N9	8.08	114.67	108.20
1	N	17	U	C3'-C2'-C1'	8.08	107.96	101.50
1	N	88	U	C5-C4-O4	-8.08	121.05	125.90
1	N	272	C	P-O3'-C3'	8.08	129.39	119.70
1	N	614	C	O4'-C1'-N1	8.07	114.66	108.20
1	N	508	U	N3-C2-O2	-8.07	116.55	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	552	U	N3-C2-O2	8.07	127.85	122.20
1	N	791	G	N1-C6-O6	8.07	124.74	119.90
1	N	352	C	N3-C2-O2	8.07	127.55	121.90
1	N	1128	C	P-O5'-C5'	8.07	133.81	120.90
1	N	492	C	C5-C4-N4	-8.07	114.55	120.20
1	N	731	G	O4'-C1'-N9	8.07	114.65	108.20
1	N	816	A	C4'-C3'-C2'	8.07	110.67	102.60
1	N	893	C	N3-C2-O2	-8.07	116.25	121.90
1	N	980	C	N3-C2-O2	-8.07	116.25	121.90
1	N	405	U	O4'-C1'-N1	8.06	114.65	108.20
1	N	829	G	C4-C5-C6	8.06	123.64	118.80
1	N	962	C	C5-C4-N4	-8.06	114.55	120.20
1	N	364	A	O4'-C1'-N9	8.06	114.65	108.20
1	N	768	A	C5-C6-N1	-8.06	113.67	117.70
1	N	1157	A	C5-C6-N1	-8.06	113.67	117.70
1	N	134	G	C2-N3-C4	-8.06	107.87	111.90
1	N	565	U	N1-C2-O2	-8.06	117.16	122.80
1	N	753	A	O4'-C1'-N9	8.06	114.65	108.20
1	N	898	G	C6-C5-N7	-8.06	125.57	130.40
1	N	1200	C	N3-C4-C5	-8.06	118.68	121.90
1	N	1398	A	N3-C4-C5	-8.06	121.16	126.80
1	N	178	C	P-O3'-C3'	-8.05	110.03	119.70
1	N	203	G	C5-C6-O6	-8.05	123.77	128.60
1	N	928	G	C2-N3-C4	-8.06	107.87	111.90
1	N	251	G	C4'-C3'-C2'	-8.05	94.55	102.60
1	N	365	U	O4'-C1'-N1	8.05	114.64	108.20
1	N	447	G	P-O3'-C3'	8.05	129.37	119.70
1	N	456	A	C5-C6-N6	-8.05	117.26	123.70
1	N	654	G	O4'-C1'-N9	8.05	114.64	108.20
1	N	702	A	C5-C6-N6	-8.05	117.26	123.70
1	N	809	G	N9-C4-C5	8.05	108.62	105.40
1	N	1339	A	O4'-C1'-N9	8.05	114.64	108.20
1	N	482	A	C6-C5-N7	-8.05	126.66	132.30
1	N	609	A	O4'-C1'-N9	8.05	114.64	108.20
1	N	1016	A	N3-C4-N9	8.05	133.84	127.40
1	N	1526	G	C4'-C3'-C2'	-8.05	94.55	102.60
1	N	518	C	N3-C4-N4	8.05	123.63	118.00
1	N	849	G	O4'-C1'-N9	8.05	114.64	108.20
1	N	1008	U	O4'-C1'-N1	8.05	114.64	108.20
1	N	1126	U	N1-C2-O2	8.05	128.43	122.80
1	N	141	G	C4'-C3'-C2'	-8.05	94.55	102.60
1	N	227	G	C5-C6-N1	-8.04	107.48	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	687	A	C5-N7-C8	8.05	107.92	103.90
1	N	1429	A	C5-C6-N1	-8.05	113.68	117.70
1	N	188	C	N3-C4-C5	-8.04	118.68	121.90
1	N	308	C	N1-C2-N3	-8.04	113.57	119.20
1	N	346	G	O4'-C1'-N9	8.04	114.63	108.20
1	N	565	U	O4'-C1'-N1	8.04	114.63	108.20
1	N	1193	G	N1-C2-N3	-8.04	119.08	123.90
1	N	1254	A	C5-C6-N6	-8.04	117.27	123.70
1	N	1479	C	C6-N1-C2	-8.04	117.08	120.30
1	N	976	G	C5-N7-C8	8.04	108.32	104.30
1	N	241	G	C8-N9-C4	-8.04	103.19	106.40
1	N	769	G	C4-C5-N7	8.04	114.02	110.80
1	N	567	G	N9-C1'-C2'	-8.04	103.16	112.00
1	N	1076	U	N1-C2-N3	8.04	119.72	114.90
1	N	1425	U	C5-C4-O4	8.04	130.72	125.90
1	N	1487	G	C5-C6-O6	-8.04	123.78	128.60
1	N	138	G	O4'-C1'-N9	8.04	114.63	108.20
1	N	645	G	C2-N3-C4	-8.04	107.88	111.90
1	N	956	U	N1-C2-O2	-8.04	117.17	122.80
1	N	958	A	C4-C5-N7	-8.03	106.68	110.70
1	N	942	G	N9-C4-C5	8.03	108.61	105.40
1	N	400	C	C5-C4-N4	-8.03	114.58	120.20
1	N	650	G	C5'-C4'-O4'	8.03	118.74	109.10
1	N	948	C	C5-C6-N1	8.03	125.01	121.00
1	N	1329	A	C5-N7-C8	8.03	107.91	103.90
1	N	1211	U	C4-C5-C6	-8.03	114.88	119.70
1	N	821	G	N3-C2-N2	8.02	125.52	119.90
1	N	1199	U	N3-C4-O4	8.02	125.02	119.40
1	N	798	U	O4'-C1'-N1	8.02	114.62	108.20
1	N	802	A	C4-C5-N7	-8.02	106.69	110.70
1	N	913	A	C6-C5-N7	-8.02	126.69	132.30
1	N	85	U	C5-C6-N1	-8.02	118.69	122.70
1	N	604	G	N1-C2-N3	-8.02	119.09	123.90
1	N	769	G	O4'-C1'-N9	8.02	114.61	108.20
1	N	118	U	O4'-C1'-N1	8.01	114.61	108.20
1	N	403	C	P-O3'-C3'	-8.01	110.09	119.70
1	N	728	A	C5-C6-N6	-8.01	117.29	123.70
1	N	129	A	C4-C5-C6	8.01	121.00	117.00
1	N	1146	A	N1-C2-N3	8.01	133.30	129.30
1	N	9	G	C4-C5-C6	8.01	123.60	118.80
1	N	1331	G	C5-C6-O6	-8.01	123.80	128.60
1	N	1522	U	N3-C4-O4	8.01	125.00	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	926	G	P-O3'-C3'	8.01	129.31	119.70
1	N	1018	G	N1-C2-N3	-8.01	119.10	123.90
1	N	1374	A	N9-C4-C5	8.01	109.00	105.80
1	N	1239	A	C5'-C4'-O4'	8.00	118.70	109.10
1	N	186	C	C3'-C2'-C1'	-8.00	95.10	101.50
1	N	1075	U	O4'-C1'-N1	8.00	114.60	108.20
1	N	1502	A	C4-C5-C6	8.00	121.00	117.00
1	N	202	G	C6-N1-C2	8.00	129.90	125.10
1	N	664	G	C1'-O4'-C4'	-8.00	103.50	109.90
1	N	1493	A	N9-C4-C5	8.00	109.00	105.80
1	N	255	G	C6-C5-N7	-8.00	125.60	130.40
1	N	66	A	N7-C8-N9	8.00	117.80	113.80
1	N	894	G	C6-C5-N7	-8.00	125.60	130.40
1	N	1069	C	C6-N1-C2	8.00	123.50	120.30
1	N	517	G	N1-C2-N3	-8.00	119.10	123.90
1	N	1067	A	C5-C6-N6	-8.00	117.30	123.70
1	N	1150	A	N1-C6-N6	8.00	123.40	118.60
1	N	1180	A	P-O3'-C3'	8.00	129.29	119.70
1	N	726	C	C4-C5-C6	7.99	121.40	117.40
1	N	1525	G	P-O3'-C3'	-7.99	110.11	119.70
1	N	278	G	C5-C6-O6	-7.99	123.81	128.60
1	N	730	G	O4'-C1'-N9	7.99	114.59	108.20
1	N	1253	G	O4'-C1'-N9	7.99	114.59	108.20
1	N	3	A	P-O3'-C3'	-7.99	110.11	119.70
1	N	783	C	O4'-C1'-N1	7.99	114.59	108.20
1	N	876	C	N3-C4-N4	7.99	123.59	118.00
1	N	766	A	O4'-C1'-N9	7.99	114.59	108.20
1	N	188	C	O4'-C1'-N1	7.98	114.59	108.20
1	N	1177	G	N1-C6-O6	7.98	124.69	119.90
1	N	673	A	C6-N1-C2	-7.98	113.81	118.60
1	N	179	A	P-O5'-C5'	7.98	133.67	120.90
1	N	644	U	C5-C4-O4	-7.98	121.11	125.90
1	N	1248	A	N3-C4-C5	-7.98	121.21	126.80
1	N	777	A	O4'-C1'-N9	7.98	114.58	108.20
1	N	21	G	C8-N9-C4	-7.97	103.21	106.40
1	N	843	U	P-O3'-C3'	-7.97	110.13	119.70
1	N	887	G	N1-C6-O6	7.97	124.69	119.90
1	N	990	C	C4'-C3'-C2'	-7.97	94.63	102.60
1	N	1241	G	C5-C6-O6	-7.97	123.81	128.60
1	N	440	C	P-O5'-C5'	7.97	133.66	120.90
1	N	446	G	N1-C2-N3	-7.97	119.12	123.90
1	N	489	C	C5-C4-N4	-7.97	114.62	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	554	A	C4-C5-N7	-7.97	106.71	110.70
1	N	638	U	N3-C4-C5	-7.97	109.82	114.60
1	N	735	C	O4'-C1'-N1	7.97	114.58	108.20
1	N	1313	U	C2-N3-C4	7.97	131.78	127.00
1	N	255	G	O4'-C1'-N9	7.97	114.58	108.20
1	N	286	C	N1-C2-O2	7.97	123.68	118.90
1	N	544	G	O4'-C1'-N9	7.97	114.57	108.20
1	N	907	A	N1-C6-N6	7.97	123.38	118.60
1	N	722	G	C5'-C4'-C3'	-7.96	103.26	116.00
1	N	937	A	C4-C5-C6	7.96	120.98	117.00
1	N	1495	U	O4'-C1'-N1	7.96	114.57	108.20
1	N	1496	C	P-O5'-C5'	7.96	133.64	120.90
1	N	1303	C	N3-C2-O2	-7.96	116.33	121.90
1	N	67	C	N3-C4-C5	-7.96	118.72	121.90
1	N	306	A	C5-N7-C8	7.96	107.88	103.90
1	N	912	C	C4-C5-C6	7.96	121.38	117.40
1	N	246	A	N1-C6-N6	7.96	123.37	118.60
1	N	293	G	O4'-C1'-N9	7.96	114.57	108.20
1	N	949	A	P-O5'-C5'	7.96	133.63	120.90
1	N	1067	A	C4-C5-C6	7.96	120.98	117.00
1	N	458	U	P-O3'-C3'	7.96	129.25	119.70
1	N	172	A	C4-C5-C6	7.95	120.98	117.00
1	N	945	G	N1-C2-N3	-7.95	119.13	123.90
1	N	1421	G	C5-C6-N1	-7.95	107.52	111.50
1	N	334	C	C5-C6-N1	7.95	124.97	121.00
1	N	1160	G	C5'-C4'-O4'	-7.95	99.56	109.10
1	N	692	U	N3-C2-O2	7.95	127.77	122.20
1	N	849	G	C2-N3-C4	7.95	115.87	111.90
1	N	1014	A	C5-C6-N6	-7.95	117.34	123.70
1	N	1430	A	C4-C5-C6	7.95	120.97	117.00
1	N	546	A	O4'-C1'-N9	7.94	114.56	108.20
1	N	567	G	C8-N9-C4	-7.94	103.22	106.40
1	N	761	G	C2-N3-C4	-7.94	107.93	111.90
1	N	835	U	C2-N3-C4	-7.94	122.23	127.00
1	N	494	G	N9-C4-C5	-7.94	102.22	105.40
1	N	276	G	C4-C5-N7	7.94	113.98	110.80
1	N	464	U	C5-C4-O4	-7.94	121.14	125.90
1	N	953	G	C5-C6-O6	-7.94	123.84	128.60
1	N	1398	A	C6-N1-C2	7.94	123.36	118.60
1	N	829	G	N3-C4-N9	7.94	130.76	126.00
1	N	1230	C	P-O5'-C5'	7.94	133.60	120.90
1	N	555	U	C5-C4-O4	-7.93	121.14	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1407	C	N3-C4-N4	7.93	123.56	118.00
1	N	206	C	C4-C5-C6	7.93	121.37	117.40
1	N	370	C	O4'-C1'-N1	7.93	114.55	108.20
1	N	821	G	C6-N1-C2	7.93	129.86	125.10
1	N	62	U	N3-C4-O4	7.93	124.95	119.40
1	N	482	A	O4'-C1'-N9	7.93	114.54	108.20
1	N	848	C	N3-C4-C5	-7.93	118.73	121.90
1	N	1317	C	C6-N1-C2	7.93	123.47	120.30
1	N	401	C	P-O3'-C3'	-7.93	110.19	119.70
1	N	508	U	N1-C2-O2	7.93	128.35	122.80
1	N	289	G	C6-N1-C2	7.93	129.86	125.10
1	N	449	G	C8-N9-C4	-7.93	103.23	106.40
1	N	76	G	C2-N3-C4	7.92	115.86	111.90
1	N	267	C	C4-C5-C6	7.92	121.36	117.40
1	N	1476	A	C5-C6-N6	-7.92	117.36	123.70
1	N	463	U	C3'-C2'-C1'	-7.92	95.16	101.50
1	N	1140	C	N3-C4-N4	7.92	123.55	118.00
1	N	1477	U	N3-C4-O4	7.92	124.94	119.40
1	N	832	G	P-O3'-C3'	-7.92	110.20	119.70
1	N	1410	A	C8-N9-C4	-7.92	102.63	105.80
1	N	60	A	N7-C8-N9	-7.92	109.84	113.80
1	N	1359	C	P-O3'-C3'	7.92	129.20	119.70
1	N	51	A	C5-N7-C8	7.92	107.86	103.90
1	N	186	C	C2-N3-C4	7.92	123.86	119.90
1	N	566	G	O4'-C1'-N9	7.92	114.53	108.20
1	N	1074	G	N7-C8-N9	7.92	117.06	113.10
1	N	622	A	C5-C6-N6	-7.91	117.37	123.70
1	N	227	G	N1-C2-N3	-7.91	119.15	123.90
1	N	529	G	N1-C2-N3	-7.91	119.15	123.90
1	N	1035	A	C5'-C4'-O4'	7.91	118.59	109.10
1	N	1140	C	N1-C2-N3	-7.91	113.66	119.20
1	N	1377	A	C5-C6-N1	-7.91	113.75	117.70
1	N	341	C	N3-C4-N4	7.91	123.53	118.00
1	N	972	C	C1'-O4'-C4'	7.91	116.22	109.90
1	N	399	G	N9-C4-C5	-7.90	102.24	105.40
1	N	389	A	C5-C6-N6	-7.90	117.38	123.70
1	N	489	C	O4'-C1'-N1	7.90	114.52	108.20
1	N	946	A	N9-C4-C5	7.90	108.96	105.80
1	N	1452	C	O4'-C1'-N1	7.90	114.52	108.20
1	N	134	G	C8-N9-C1'	-7.90	116.73	127.00
1	N	357	G	C6-C5-N7	-7.90	125.66	130.40
1	N	358	U	N1-C2-O2	7.90	128.33	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	448	A	N1-C6-N6	7.90	123.34	118.60
1	N	640	A	C5-C6-N6	-7.90	117.38	123.70
1	N	1140	C	C2-N3-C4	7.90	123.85	119.90
1	N	1191	A	N3-C4-C5	-7.90	121.27	126.80
1	N	1310	G	C4-C5-N7	7.90	113.96	110.80
1	N	373	A	C1'-O4'-C4'	7.90	116.22	109.90
1	N	445	G	C5-C6-O6	-7.90	123.86	128.60
1	N	1066	C	O4'-C1'-N1	7.90	114.52	108.20
1	N	1297	G	C2-N3-C4	7.90	115.85	111.90
1	N	33	A	C5-C6-N1	-7.89	113.75	117.70
1	N	301	G	C5-C6-N1	-7.89	107.55	111.50
1	N	453	G	C8-N9-C4	-7.89	103.24	106.40
1	N	841	C	C6-N1-C2	-7.89	117.14	120.30
1	N	880	C	C5-C4-N4	-7.89	114.67	120.20
1	N	1517	G	C4'-C3'-C2'	7.89	110.49	102.60
1	N	481	G	C4-C5-N7	7.89	113.96	110.80
1	N	576	C	C2-N3-C4	7.89	123.85	119.90
1	N	942	G	N1-C6-O6	7.89	124.64	119.90
1	N	1168	U	P-O3'-C3'	7.89	129.17	119.70
1	N	1305	G	C2-N3-C4	7.89	115.85	111.90
1	N	1255	G	C1'-O4'-C4'	7.89	116.21	109.90
1	N	394	G	N3-C2-N2	7.89	125.42	119.90
1	N	675	A	C4-C5-C6	7.89	120.94	117.00
1	N	946	A	C4-C5-C6	7.89	120.94	117.00
1	N	1197	A	C5-N7-C8	7.89	107.84	103.90
1	N	45	G	N7-C8-N9	-7.89	109.16	113.10
1	N	1339	A	N3-C4-N9	7.89	133.71	127.40
1	N	896	C	C6-N1-C2	-7.89	117.15	120.30
1	N	601	G	C6-N1-C2	-7.88	120.37	125.10
1	N	1285	A	C4-C5-C6	7.88	120.94	117.00
1	N	1398	A	C4-C5-C6	7.88	120.94	117.00
1	N	1483	A	P-O3'-C3'	7.88	129.16	119.70
1	N	229	U	C4'-C3'-C2'	-7.88	94.72	102.60
1	N	269	C	O4'-C1'-N1	7.88	114.51	108.20
1	N	692	U	P-O3'-C3'	7.88	129.16	119.70
1	N	284	C	N3-C4-C5	-7.88	118.75	121.90
1	N	313	A	C6-C5-N7	-7.88	126.78	132.30
1	N	540	G	N3-C2-N2	7.88	125.42	119.90
1	N	363	A	O4'-C1'-N9	7.88	114.50	108.20
1	N	826	C	C4-C5-C6	7.88	121.34	117.40
1	N	879	C	C2-N1-C1'	7.88	127.47	118.80
1	N	1427	C	N3-C4-C5	-7.88	118.75	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	31	G	N7-C8-N9	-7.87	109.16	113.10
1	N	270	A	O4'-C1'-N9	7.87	114.50	108.20
1	N	1448	C	C1'-O4'-C4'	7.87	116.20	109.90
1	N	967	C	C2-N1-C1'	7.87	127.46	118.80
1	N	97	G	C2-N3-C4	-7.87	107.97	111.90
1	N	1240	U	C4-C5-C6	7.87	124.42	119.70
1	N	1352	C	C5-C4-N4	-7.87	114.69	120.20
1	N	1164	G	C4-C5-C6	7.87	123.52	118.80
1	N	111	G	N1-C6-O6	7.87	124.62	119.90
1	N	616	G	C4-C5-N7	-7.87	107.65	110.80
1	N	1014	A	P-O3'-C3'	7.87	129.14	119.70
1	N	184	G	N9-C4-C5	7.86	108.55	105.40
1	N	193	C	C2-N1-C1'	7.86	127.45	118.80
1	N	459	A	C5-C6-N6	-7.86	117.41	123.70
1	N	58	C	C1'-O4'-C4'	7.86	116.19	109.90
1	N	1006	G	C6-N1-C2	7.86	129.82	125.10
1	N	451	A	N1-C2-N3	-7.86	125.37	129.30
1	N	871	U	C6-N1-C2	-7.86	116.28	121.00
1	N	932	C	C6-N1-C2	-7.86	117.16	120.30
1	N	1286	U	O4'-C1'-N1	7.86	114.49	108.20
1	N	211	G	C8-N9-C4	7.86	109.54	106.40
1	N	775	G	N7-C8-N9	7.86	117.03	113.10
1	N	538	G	P-O5'-C5'	7.85	133.47	120.90
1	N	704	A	C5-N7-C8	7.85	107.83	103.90
1	N	464	U	P-O3'-C3'	7.85	129.12	119.70
1	N	731	G	N3-C4-C5	-7.85	124.67	128.60
1	N	1103	C	N1-C2-O2	-7.85	114.19	118.90
1	N	406	G	C4-C5-C6	7.85	123.51	118.80
1	N	406	G	C8-N9-C4	-7.85	103.26	106.40
1	N	105	G	C5-C6-N1	-7.84	107.58	111.50
1	N	546	A	N9-C4-C5	7.84	108.94	105.80
1	N	802	A	N9-C4-C5	7.84	108.94	105.80
1	N	1043	G	C5-N7-C8	7.84	108.22	104.30
1	N	91	U	O4'-C1'-N1	7.84	114.47	108.20
1	N	1034	G	N1-C6-O6	7.84	124.60	119.90
1	N	1414	U	N1-C2-N3	7.84	119.61	114.90
1	N	1511	G	C8-N9-C4	-7.84	103.26	106.40
1	N	1434	A	C1'-O4'-C4'	7.84	116.17	109.90
1	N	126	G	C4-C5-N7	-7.84	107.67	110.80
1	N	903	G	C5-C6-O6	-7.84	123.90	128.60
1	N	1317	C	C4-C5-C6	7.84	121.32	117.40
1	N	522	C	C2-N3-C4	7.83	123.82	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	61	G	C2-N3-C4	7.83	115.82	111.90
1	N	955	U	N3-C4-C5	-7.83	109.90	114.60
1	N	80	A	N7-C8-N9	7.83	117.71	113.80
1	N	1414	U	O4'-C1'-N1	7.83	114.46	108.20
1	N	60	A	N9-C4-C5	-7.83	102.67	105.80
1	N	1503	A	N1-C2-N3	7.83	133.21	129.30
1	N	314	C	C4'-C3'-C2'	-7.83	94.77	102.60
1	N	1277	C	C6-N1-C2	-7.83	117.17	120.30
1	N	5	U	O4'-C1'-N1	7.82	114.46	108.20
1	N	724	G	C6-C5-N7	-7.82	125.71	130.40
1	N	1109	C	N1-C2-O2	-7.82	114.21	118.90
1	N	147	G	N1-C6-O6	7.82	124.59	119.90
1	N	184	G	C5-N7-C8	7.82	108.21	104.30
1	N	932	C	C2-N3-C4	7.82	123.81	119.90
1	N	1399	C	N3-C4-N4	7.82	123.47	118.00
1	N	542	G	P-O5'-C5'	7.82	133.41	120.90
1	N	1532	U	C6-N1-C2	-7.82	116.31	121.00
1	N	610	U	C5-C4-O4	-7.82	121.21	125.90
1	N	660	C	P-O5'-C5'	7.82	133.41	120.90
1	N	1461	G	O4'-C1'-N9	7.82	114.45	108.20
1	N	271	C	C5-C6-N1	7.82	124.91	121.00
1	N	383	A	C5'-C4'-C3'	7.82	128.50	116.00
1	N	1466	C	C4-C5-C6	7.82	121.31	117.40
1	N	1001	C	C4-C5-C6	7.81	121.31	117.40
1	N	372	C	C2-N1-C1'	7.81	127.39	118.80
1	N	792	A	C5-N7-C8	7.81	107.81	103.90
1	N	1186	G	O4'-C1'-N9	7.81	114.45	108.20
1	N	1240	U	C5-C4-O4	7.81	130.59	125.90
1	N	511	C	N3-C4-N4	7.81	123.47	118.00
1	N	1174	G	N3-C2-N2	7.81	125.37	119.90
1	N	789	U	C5-C6-N1	7.81	126.61	122.70
1	N	789	U	N3-C4-C5	-7.81	109.92	114.60
1	N	1408	A	C4-C5-C6	7.81	120.91	117.00
1	N	479	U	N1-C2-N3	-7.81	110.22	114.90
1	N	954	G	C6-C5-N7	-7.81	125.72	130.40
1	N	1208	C	O4'-C1'-N1	7.81	114.44	108.20
1	N	1151	A	C5-C6-N1	-7.81	113.80	117.70
1	N	740	U	N3-C4-C5	7.80	119.28	114.60
1	N	1021	A	P-O5'-C5'	7.80	133.39	120.90
1	N	1210	C	C5-C6-N1	7.80	124.90	121.00
1	N	296	U	C6-N1-C2	-7.80	116.32	121.00
1	N	800	G	P-O5'-C5'	7.80	133.38	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1519	A	C4-C5-C6	7.80	120.90	117.00
1	N	310	G	C6-C5-N7	-7.80	125.72	130.40
1	N	378	G	C5-C6-O6	-7.80	123.92	128.60
1	N	1306	A	C5-C6-N6	-7.80	117.46	123.70
1	N	1402	C	C5-C6-N1	7.80	124.90	121.00
1	N	51	A	C5-C6-N6	-7.79	117.47	123.70
1	N	334	C	N3-C4-C5	-7.79	118.78	121.90
1	N	803	G	C6-C5-N7	-7.79	125.72	130.40
1	N	1043	G	N1-C6-O6	7.79	124.58	119.90
1	N	711	G	C5-C6-N1	-7.79	107.61	111.50
1	N	908	A	C5-C6-N1	-7.79	113.80	117.70
1	N	575	G	C1'-O4'-C4'	7.79	116.13	109.90
1	N	1215	G	N9-C4-C5	-7.79	102.28	105.40
1	N	97	G	N7-C8-N9	-7.79	109.21	113.10
1	N	98	A	O4'-C1'-N9	7.79	114.43	108.20
1	N	761	G	N3-C4-C5	7.79	132.49	128.60
1	N	880	C	C6-N1-C2	-7.79	117.19	120.30
1	N	1081	A	C5-C6-N1	-7.79	113.81	117.70
1	N	1278	G	C4-C5-C6	7.79	123.47	118.80
1	N	1027	C	O4'-C1'-N1	7.78	114.43	108.20
1	N	1200	C	C5'-C4'-C3'	7.78	128.45	116.00
1	N	1234	C	C5-C6-N1	7.78	124.89	121.00
1	N	1216	A	N7-C8-N9	-7.78	109.91	113.80
1	N	1480	A	C5-C6-N1	-7.78	113.81	117.70
1	N	1150	A	N1-C2-N3	7.78	133.19	129.30
1	N	107	G	P-O5'-C5'	-7.78	108.45	120.90
1	N	274	A	C2'-C3'-O3'	7.78	126.61	109.50
1	N	1338	G	C8-N9-C4	-7.78	103.29	106.40
1	N	553	A	N3-C4-C5	-7.78	121.36	126.80
1	N	681	A	C5-C6-N6	-7.78	117.48	123.70
1	N	1005	A	C5'-C4'-O4'	7.78	118.43	109.10
1	N	1096	C	C5-C4-N4	-7.78	114.76	120.20
1	N	973	G	C6-C5-N7	-7.77	125.74	130.40
1	N	11	G	C4-C5-N7	7.77	113.91	110.80
1	N	1041	G	C5-C6-N1	-7.77	107.61	111.50
1	N	1373	G	N7-C8-N9	7.77	116.99	113.10
1	N	220	G	C8-N9-C4	-7.77	103.29	106.40
1	N	653	U	C5-C4-O4	-7.77	121.24	125.90
1	N	46	G	C6-C5-N7	-7.77	125.74	130.40
1	N	120	A	C4'-C3'-C2'	-7.77	94.83	102.60
1	N	561	U	C2-N3-C4	-7.77	122.34	127.00
1	N	590	U	N3-C2-O2	7.77	127.64	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1136	C	P-O5'-C5'	-7.77	108.47	120.90
1	N	526	C	N3-C4-C5	-7.77	118.79	121.90
1	N	546	A	C6-C5-N7	-7.77	126.86	132.30
1	N	681	A	C4-C5-C6	7.77	120.88	117.00
1	N	1110	A	C4-C5-C6	7.77	120.88	117.00
1	N	560	A	O4'-C1'-N9	7.77	114.41	108.20
1	N	722	G	C6-C5-N7	-7.77	125.74	130.40
1	N	738	C	N3-C4-C5	-7.76	118.79	121.90
1	N	1116	U	O4'-C1'-N1	7.76	114.41	108.20
1	N	1185	G	O4'-C1'-N9	7.76	114.41	108.20
1	N	1279	G	N1-C6-O6	7.76	124.56	119.90
1	N	313	A	C4'-C3'-C2'	-7.76	94.84	102.60
1	N	1079	G	N3-C2-N2	7.76	125.33	119.90
1	N	23	C	N1-C2-O2	-7.76	114.24	118.90
1	N	184	G	O4'-C1'-N9	7.76	114.41	108.20
1	N	1461	G	P-O3'-C3'	-7.76	110.39	119.70
1	N	512	U	C1'-O4'-C4'	-7.76	103.69	109.90
1	N	1044	A	C4-C5-C6	7.76	120.88	117.00
1	N	1272	G	N3-C2-N2	7.76	125.33	119.90
1	N	187	G	O4'-C1'-N9	7.75	114.40	108.20
1	N	184	G	N1-C6-O6	7.75	124.55	119.90
1	N	1531	A	C2-N3-C4	7.75	114.48	110.60
1	N	129	A	C5-C6-N1	-7.75	113.82	117.70
1	N	428	G	P-O5'-C5'	7.75	133.30	120.90
1	N	467	U	C3'-C2'-C1'	-7.75	95.30	101.50
1	N	672	U	N3-C4-O4	7.75	124.83	119.40
1	N	865	A	C4-C5-C6	7.75	120.88	117.00
1	N	1042	A	N1-C6-N6	7.75	123.25	118.60
1	N	1142	G	C6-C5-N7	-7.75	125.75	130.40
1	N	409	U	O4'-C1'-N1	7.75	114.40	108.20
1	N	1405	G	C5-C6-O6	-7.75	123.95	128.60
1	N	1497	G	C4-C5-N7	-7.75	107.70	110.80
1	N	147	G	C5-C6-O6	-7.75	123.95	128.60
1	N	324	G	N1-C6-O6	7.75	124.55	119.90
1	N	892	A	N3-C4-C5	-7.75	121.38	126.80
1	N	1111	A	C5-C6-N1	-7.75	113.83	117.70
1	N	51	A	C4-C5-C6	7.74	120.87	117.00
1	N	270	A	C6-C5-N7	-7.74	126.88	132.30
1	N	1210	C	N3-C4-N4	7.74	123.42	118.00
1	N	414	A	C6-N1-C2	7.74	123.25	118.60
1	N	922	G	P-O3'-C3'	7.74	128.99	119.70
1	N	82	G	N3-C2-N2	7.74	125.32	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	226	G	C4-C5-N7	7.74	113.89	110.80
1	N	380	G	N1-C2-N3	-7.74	119.26	123.90
1	N	1483	A	C4-C5-C6	7.74	120.87	117.00
1	N	1220	G	O4'-C1'-N9	7.74	114.39	108.20
1	N	905	U	C5'-C4'-O4'	7.73	118.38	109.10
1	N	1163	A	N1-C2-N3	-7.73	125.43	129.30
1	N	1299	A	C4-C5-N7	-7.73	106.83	110.70
1	N	592	G	N9-C4-C5	-7.73	102.31	105.40
1	N	602	A	O4'-C1'-N9	7.73	114.39	108.20
1	N	815	A	N7-C8-N9	-7.73	109.93	113.80
1	N	454	G	C5-C6-O6	-7.73	123.96	128.60
1	N	885	G	N3-C4-C5	-7.73	124.74	128.60
1	N	556	C	N1-C2-O2	7.73	123.54	118.90
1	N	430	A	C5-N7-C8	7.72	107.76	103.90
1	N	755	G	C4-C5-N7	-7.72	107.71	110.80
1	N	1309	G	N9-C4-C5	-7.72	102.31	105.40
1	N	789	U	C6-N1-C2	-7.72	116.37	121.00
1	N	1129	C	C5-C4-N4	-7.72	114.80	120.20
1	N	1152	A	O4'-C1'-N9	7.72	114.38	108.20
1	N	1227	A	N7-C8-N9	-7.72	109.94	113.80
1	N	1271	A	C6-N1-C2	7.72	123.23	118.60
1	N	444	G	C2-N3-C4	7.71	115.76	111.90
1	N	791	G	C5-C6-N1	-7.71	107.64	111.50
1	N	809	G	C6-C5-N7	-7.71	125.77	130.40
1	N	93	U	C5-C4-O4	7.71	130.53	125.90
1	N	955	U	N3-C4-O4	7.71	124.80	119.40
1	N	1221	G	N1-C2-N3	-7.71	119.27	123.90
1	N	1534	A	N3-C4-C5	-7.71	121.40	126.80
1	N	1288	A	C5-C6-N6	-7.71	117.53	123.70
1	N	821	G	N1-C2-N3	-7.71	119.28	123.90
1	N	211	G	N1-C6-O6	7.71	124.52	119.90
1	N	272	C	N3-C4-N4	7.70	123.39	118.00
1	N	344	A	N1-C6-N6	7.70	123.22	118.60
1	N	501	C	N3-C4-N4	7.70	123.39	118.00
1	N	1087	G	N7-C8-N9	7.70	116.95	113.10
1	N	120	A	C3'-C2'-C1'	-7.70	95.34	101.50
1	N	815	A	C4-C5-C6	7.70	120.85	117.00
1	N	717	U	P-O3'-C3'	7.70	128.94	119.70
1	N	731	G	C6-C5-N7	-7.70	125.78	130.40
1	N	1185	G	N1-C6-O6	7.70	124.52	119.90
1	N	1239	A	O4'-C1'-N9	7.70	114.36	108.20
1	N	1365	G	C5-C6-N1	-7.70	107.65	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1464	U	C2-N3-C4	7.70	131.62	127.00
1	N	1246	A	O4'-C1'-N9	7.70	114.36	108.20
1	N	776	G	N1-C2-N3	-7.70	119.28	123.90
1	N	514	C	C4-C5-C6	7.69	121.25	117.40
1	N	804	U	O4'-C1'-N1	7.69	114.36	108.20
1	N	1127	G	C4-C5-C6	7.69	123.42	118.80
1	N	53	A	O4'-C1'-N9	7.69	114.35	108.20
1	N	1311	A	C5-C6-N1	-7.69	113.85	117.70
1	N	1384	C	N3-C4-N4	7.69	123.39	118.00
1	N	103	U	C5-C4-O4	-7.69	121.29	125.90
1	N	1507	A	O4'-C1'-N9	7.69	114.35	108.20
1	N	32	A	N1-C6-N6	7.69	123.21	118.60
1	N	355	C	C5-C6-N1	7.69	124.84	121.00
1	N	622	A	O4'-C1'-N9	7.69	114.35	108.20
1	N	1056	U	C5-C6-N1	7.69	126.54	122.70
1	N	537	G	N1-C2-N3	-7.68	119.29	123.90
1	N	690	G	C4-C5-C6	7.68	123.41	118.80
1	N	729	A	C2-N3-C4	7.68	114.44	110.60
1	N	846	G	N3-C2-N2	7.68	125.28	119.90
1	N	1346	A	C4-C5-C6	7.68	120.84	117.00
1	N	664	G	N3-C4-N9	-7.68	121.39	126.00
1	N	180	U	C2'-C3'-O3'	7.68	126.40	109.50
1	N	339	C	P-O5'-C5'	7.68	133.19	120.90
1	N	415	A	C5-C6-N1	-7.68	113.86	117.70
1	N	685	G	C5-C6-N1	-7.68	107.66	111.50
1	N	1531	A	O4'-C1'-N9	7.68	114.34	108.20
1	N	453	G	C5-C6-O6	-7.68	123.99	128.60
1	N	592	G	C5-C6-O6	-7.68	123.99	128.60
1	N	886	G	N1-C6-O6	7.68	124.51	119.90
1	N	1276	G	C4'-C3'-C2'	-7.68	94.92	102.60
1	N	1297	G	N1-C6-O6	7.68	124.51	119.90
1	N	1531	A	N9-C4-C5	-7.68	102.73	105.80
1	N	725	G	N1-C6-O6	7.68	124.51	119.90
1	N	407	U	C2-N3-C4	7.67	131.60	127.00
1	N	638	U	O4'-C1'-N1	7.67	114.34	108.20
1	N	1343	G	N7-C8-N9	7.67	116.94	113.10
1	N	1326	U	C2-N1-C1'	7.67	126.91	117.70
1	N	28	A	N7-C8-N9	-7.67	109.96	113.80
1	N	303	A	N1-C2-N3	7.67	133.14	129.30
1	N	408	A	N3-C4-C5	-7.67	121.43	126.80
1	N	784	A	O5'-P-OP1	-7.67	98.80	105.70
1	N	1290	G	N3-C4-C5	-7.67	124.76	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1534	A	N3-C4-N9	7.67	133.54	127.40
1	N	388	G	C1'-O4'-C4'	7.67	116.03	109.90
1	N	498	A	C6-N1-C2	7.67	123.20	118.60
1	N	894	G	C6-N1-C2	7.67	129.70	125.10
1	N	677	U	C2-N3-C4	7.66	131.60	127.00
1	N	886	G	C4-C5-N7	-7.66	107.73	110.80
1	N	1020	G	C2-N3-C4	7.66	115.73	111.90
1	N	1283	U	O4'-C1'-N1	7.66	114.33	108.20
1	N	1185	G	C5-C6-O6	-7.66	124.00	128.60
1	N	1206	G	O4'-C1'-N9	7.66	114.33	108.20
1	N	345	C	P-O3'-C3'	7.66	128.89	119.70
1	N	554	A	C5-N7-C8	7.66	107.73	103.90
1	N	612	C	O4'-C1'-N1	7.66	114.33	108.20
1	N	1515	G	C6-C5-N7	-7.66	125.80	130.40
1	N	39	G	P-O3'-C3'	-7.66	110.51	119.70
1	N	214	C	N1-C2-O2	7.66	123.50	118.90
1	N	604	G	P-O3'-C3'	7.66	128.89	119.70
1	N	634	C	N3-C4-N4	7.66	123.36	118.00
1	N	766	A	N1-C2-N3	7.66	133.13	129.30
1	N	1411	C	O4'-C1'-N1	7.66	114.33	108.20
1	N	1417	G	C5-C6-O6	-7.66	124.00	128.60
1	N	1422	G	O5'-P-OP1	-7.66	98.81	105.70
1	N	1469	C	P-O5'-C5'	-7.66	108.65	120.90
1	N	120	A	N3-C4-C5	-7.66	121.44	126.80
1	N	1124	G	N1-C2-N3	-7.66	119.31	123.90
1	N	472	U	C2-N3-C4	7.65	131.59	127.00
1	N	963	G	C4'-C3'-C2'	-7.65	94.95	102.60
1	N	1092	A	C5-N7-C8	7.65	107.73	103.90
1	N	187	G	C6-N1-C2	7.65	129.69	125.10
1	N	478	A	C8-N9-C4	-7.65	102.74	105.80
1	N	841	C	C2-N3-C4	7.65	123.73	119.90
1	N	1066	C	C5-C4-N4	-7.65	114.84	120.20
1	N	1496	C	C5-C4-N4	-7.65	114.84	120.20
1	N	647	C	N3-C4-N4	7.65	123.36	118.00
1	N	1125	U	P-O3'-C3'	7.65	128.88	119.70
1	N	49	U	C5-C6-N1	7.65	126.53	122.70
1	N	83	C	C4-C5-C6	7.65	121.22	117.40
1	N	621	A	C1'-O4'-C4'	7.65	116.02	109.90
1	N	784	A	N1-C6-N6	7.65	123.19	118.60
1	N	915	A	P-O3'-C3'	-7.65	110.52	119.70
1	N	1501	C	P-O3'-C3'	7.65	128.88	119.70
1	N	155	A	C4-C5-C6	7.64	120.82	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1072	G	C4-C5-N7	-7.64	107.74	110.80
1	N	1526	G	C5-N7-C8	7.64	108.12	104.30
1	N	96	U	N3-C4-O4	7.64	124.75	119.40
1	N	851	G	C5-N7-C8	-7.64	100.48	104.30
1	N	1397	C	P-O3'-C3'	7.64	128.87	119.70
1	N	699	C	P-O5'-C5'	7.64	133.12	120.90
1	N	222	C	C4'-C3'-C2'	-7.64	94.96	102.60
1	N	1442	G	C6-C5-N7	-7.64	125.82	130.40
1	N	667	G	N1-C2-N3	-7.64	119.32	123.90
1	N	416	G	O4'-C1'-N9	7.63	114.31	108.20
1	N	325	A	C5-C6-N6	-7.63	117.59	123.70
1	N	904	U	O4'-C1'-N1	7.63	114.31	108.20
1	N	27	G	C4-C5-C6	7.63	123.38	118.80
1	N	174	A	N9-C4-C5	-7.63	102.75	105.80
1	N	684	U	C5-C4-O4	-7.63	121.32	125.90
1	N	753	A	C5-C6-N6	-7.63	117.59	123.70
1	N	944	G	C5-C6-N1	-7.63	107.68	111.50
1	N	404	G	P-O3'-C3'	-7.63	110.54	119.70
1	N	354	G	C4-C5-N7	7.63	113.85	110.80
1	N	444	G	N1-C2-N3	-7.63	119.32	123.90
1	N	122	G	O4'-C1'-N9	7.63	114.30	108.20
1	N	739	C	C5-C4-N4	-7.63	114.86	120.20
1	N	1356	G	N3-C4-C5	7.63	132.41	128.60
1	N	1406	U	C4-C5-C6	7.63	124.28	119.70
1	N	760	G	N1-C2-N3	-7.62	119.33	123.90
1	N	1006	G	C5-C6-N1	-7.62	107.69	111.50
1	N	402	G	C5-C6-N1	-7.62	107.69	111.50
1	N	402	G	C4-C5-C6	7.62	123.37	118.80
1	N	454	G	P-O3'-C3'	-7.62	110.56	119.70
1	N	517	G	C6-N1-C2	7.62	129.67	125.10
1	N	676	A	O4'-C1'-N9	7.62	114.30	108.20
1	N	10	A	C5-C6-N6	-7.62	117.61	123.70
1	N	316	C	O4'-C1'-N1	7.62	114.29	108.20
1	N	1323	G	C5'-C4'-O4'	-7.62	99.96	109.10
1	N	469	C	N3-C2-O2	-7.61	116.57	121.90
1	N	1074	G	C4-N9-C1'	7.61	136.40	126.50
1	N	682	G	C6-C5-N7	-7.61	125.83	130.40
1	N	967	C	C5-C4-N4	-7.61	114.87	120.20
1	N	1392	G	N1-C2-N3	-7.61	119.33	123.90
1	N	980	C	N3-C4-C5	-7.61	118.86	121.90
1	N	112	G	C4-C5-N7	-7.61	107.76	110.80
1	N	1382	C	C2-N3-C4	7.61	123.70	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1381	U	C2-N1-C1'	-7.61	108.57	117.70
1	N	360	G	C8-N9-C4	-7.60	103.36	106.40
1	N	609	A	C5-N7-C8	7.60	107.70	103.90
1	N	9	G	C6-C5-N7	-7.60	125.84	130.40
1	N	491	G	N3-C2-N2	7.60	125.22	119.90
1	N	334	C	C2-N1-C1'	7.60	127.16	118.80
1	N	406	G	C5-C6-N1	-7.60	107.70	111.50
1	N	1462	C	C4-C5-C6	7.60	121.20	117.40
1	N	135	C	C4'-C3'-C2'	-7.60	95.00	102.60
1	N	309	A	N9-C1'-C2'	-7.59	103.64	112.00
1	N	243	A	C5-N7-C8	7.59	107.70	103.90
1	N	673	A	N9-C4-C5	-7.59	102.77	105.80
1	N	1333	A	N3-C4-C5	-7.59	121.49	126.80
1	N	1500	A	C2-N3-C4	-7.59	106.81	110.60
1	N	559	A	P-O5'-C5'	7.58	133.04	120.90
1	N	1182	G	C2-N3-C4	7.58	115.69	111.90
1	N	484	G	C5-C6-N1	-7.58	107.71	111.50
1	N	1504	G	N1-C2-N3	-7.58	119.35	123.90
1	N	1520	C	C5-C6-N1	7.58	124.79	121.00
1	N	803	G	N3-C2-N2	7.58	125.21	119.90
1	N	1092	A	C4-C5-C6	7.58	120.79	117.00
1	N	1012	A	N1-C2-N3	7.58	133.09	129.30
1	N	500	G	C1'-O4'-C4'	7.58	115.96	109.90
1	N	362	G	C5-N7-C8	7.57	108.09	104.30
1	N	626	G	N3-C4-C5	-7.57	124.81	128.60
1	N	714	G	N1-C2-N3	-7.57	119.36	123.90
1	N	779	C	C4-C5-C6	7.57	121.19	117.40
1	N	1326	U	C5'-C4'-C3'	-7.57	103.88	116.00
1	N	696	A	C8-N9-C4	-7.57	102.77	105.80
1	N	1090	U	C5-C4-O4	-7.57	121.36	125.90
1	N	186	C	C2-N1-C1'	7.57	127.13	118.80
1	N	851	G	P-O5'-C5'	7.57	133.01	120.90
1	N	957	U	P-O3'-C3'	7.57	128.78	119.70
1	N	1105	A	C6-N1-C2	7.57	123.14	118.60
1	N	212	G	P-O3'-C3'	7.57	128.78	119.70
1	N	813	U	C5-C4-O4	-7.57	121.36	125.90
1	N	1424	U	C4'-C3'-C2'	-7.57	95.03	102.60
1	N	431	A	C4-C5-C6	7.56	120.78	117.00
1	N	67	C	C6-N1-C2	7.56	123.33	120.30
1	N	365	U	N3-C4-C5	-7.56	110.06	114.60
1	N	445	G	N7-C8-N9	7.56	116.88	113.10
1	N	735	C	C5-C6-N1	7.56	124.78	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1513	A	C6-C5-N7	-7.56	127.01	132.30
1	N	1534	A	O4'-C1'-N9	7.56	114.25	108.20
1	N	898	G	C5-N7-C8	-7.56	100.52	104.30
1	N	909	A	C5-C6-N1	-7.56	113.92	117.70
1	N	1322	C	C4-C5-C6	7.56	121.18	117.40
1	N	130	A	O4'-C1'-N9	7.56	114.25	108.20
1	N	1190	G	N3-C4-C5	-7.56	124.82	128.60
1	N	61	G	C8-N9-C4	-7.55	103.38	106.40
1	N	88	U	C1'-O4'-C4'	7.55	115.94	109.90
1	N	1035	A	C3'-C2'-C1'	-7.55	95.46	101.50
1	N	1052	U	N3-C2-O2	7.55	127.49	122.20
1	N	1123	U	C5-C6-N1	7.55	126.48	122.70
1	N	1273	C	C5-C4-N4	-7.55	114.91	120.20
1	N	1522	U	C5-C4-O4	-7.55	121.37	125.90
1	N	128	G	C6-N1-C2	-7.55	120.57	125.10
1	N	737	C	O4'-C1'-N1	7.55	114.24	108.20
1	N	1201	A	C8-N9-C4	-7.55	102.78	105.80
1	N	1274	A	N3-C4-C5	-7.55	121.51	126.80
1	N	656	G	C6-C5-N7	-7.55	125.87	130.40
1	N	176	C	O4'-C1'-N1	7.55	114.24	108.20
1	N	259	G	C4-C5-N7	7.55	113.82	110.80
1	N	586	C	O4'-C1'-N1	7.55	114.24	108.20
1	N	1417	G	C4-N9-C1'	7.55	136.31	126.50
1	N	1374	A	C8-N9-C4	-7.54	102.78	105.80
1	N	114	U	N3-C4-O4	7.54	124.68	119.40
1	N	462	G	C5-C6-O6	-7.54	124.07	128.60
1	N	605	U	N3-C4-O4	7.54	124.68	119.40
1	N	407	U	C5-C6-N1	7.54	126.47	122.70
1	N	528	C	C5-C4-N4	-7.54	114.92	120.20
1	N	767	A	N9-C4-C5	-7.54	102.78	105.80
1	N	1146	A	O4'-C1'-N9	7.54	114.23	108.20
1	N	1473	G	C5-C6-O6	-7.54	124.08	128.60
1	N	971	G	O4'-C1'-N9	7.54	114.23	108.20
1	N	584	G	N7-C8-N9	7.53	116.87	113.10
1	N	922	G	C2-N3-C4	-7.53	108.13	111.90
1	N	238	A	P-O3'-C3'	-7.53	110.66	119.70
1	N	247	G	C5'-C4'-O4'	-7.53	100.06	109.10
1	N	156	C	N3-C4-C5	-7.53	118.89	121.90
1	N	391	G	C6-N1-C2	-7.53	120.58	125.10
1	N	582	C	P-O5'-C5'	7.53	132.94	120.90
1	N	627	G	C5-C6-O6	-7.53	124.08	128.60
1	N	1433	A	C5-C6-N1	-7.53	113.94	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	737	C	N3-C2-O2	7.52	127.17	121.90
1	N	1111	A	O4'-C1'-N9	7.52	114.22	108.20
1	N	1333	A	N1-C2-N3	7.52	133.06	129.30
1	N	40	C	C2-N3-C4	7.52	123.66	119.90
1	N	264	C	C1'-O4'-C4'	-7.52	103.88	109.90
1	N	1295	U	N3-C4-C5	-7.52	110.09	114.60
1	N	225	C	C6-N1-C2	-7.52	117.29	120.30
1	N	1157	A	C5-N7-C8	7.52	107.66	103.90
1	N	558	G	N1-C2-N3	-7.52	119.39	123.90
1	N	996	A	C5-C6-N1	-7.52	113.94	117.70
1	N	529	G	N3-C2-N2	7.51	125.16	119.90
1	N	854	U	N3-C4-O4	7.51	124.66	119.40
1	N	1082	A	C6-C5-N7	-7.51	127.04	132.30
1	N	642	A	O4'-C1'-N9	7.51	114.21	108.20
1	N	635	A	O4'-C1'-N9	7.51	114.21	108.20
1	N	74	A	N7-C8-N9	7.51	117.56	113.80
1	N	1028	C	C5-C4-N4	-7.51	114.94	120.20
1	N	1528	U	O4'-C1'-N1	7.51	114.21	108.20
1	N	177	G	P-O3'-C3'	-7.51	110.69	119.70
1	N	351	G	C5-C6-O6	-7.51	124.10	128.60
1	N	426	U	N3-C4-C5	-7.51	110.10	114.60
1	N	506	G	C5-C6-O6	-7.51	124.10	128.60
1	N	1089	G	C8-N9-C4	7.51	109.40	106.40
1	N	1220	G	C5-C6-N1	-7.51	107.75	111.50
1	N	44	A	P-O3'-C3'	-7.50	110.69	119.70
1	N	1050	G	N7-C8-N9	-7.50	109.35	113.10
1	N	47	C	O4'-C1'-N1	7.50	114.20	108.20
1	N	85	U	O4'-C1'-N1	7.50	114.20	108.20
1	N	476	U	O4'-C1'-N1	7.50	114.20	108.20
1	N	109	A	N1-C2-N3	7.50	133.05	129.30
1	N	329	A	N3-C4-N9	7.50	133.40	127.40
1	N	1323	G	C2-N3-C4	-7.50	108.15	111.90
1	N	215	C	P-O3'-C3'	-7.50	110.70	119.70
1	N	630	A	C4-C5-C6	7.50	120.75	117.00
1	N	1237	C	C2-N1-C1'	7.50	127.05	118.80
1	N	273	U	C4-C5-C6	-7.49	115.20	119.70
1	N	415	A	C6-C5-N7	-7.49	127.06	132.30
1	N	465	A	P-O3'-C3'	7.49	128.69	119.70
1	N	532	A	N7-C8-N9	-7.49	110.05	113.80
1	N	1284	C	C2-N1-C1'	7.49	127.04	118.80
1	N	80	A	P-O3'-C3'	-7.49	110.71	119.70
1	N	594	U	O4'-C1'-N1	7.49	114.19	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1046	A	C4-C5-C6	7.49	120.75	117.00
1	N	1077	G	C8-N9-C4	-7.49	103.40	106.40
1	N	1210	C	O4'-C1'-N1	7.49	114.19	108.20
1	N	321	A	C5-N7-C8	7.49	107.64	103.90
1	N	652	U	C2-N3-C4	-7.49	122.51	127.00
1	N	781	A	O4'-C1'-N9	7.49	114.19	108.20
1	N	1130	A	C3'-C2'-C1'	-7.49	95.51	101.50
1	N	1321	U	P-O5'-C5'	7.49	132.88	120.90
1	N	322	C	P-O5'-C5'	7.48	132.88	120.90
1	N	463	U	O4'-C1'-N1	7.48	114.19	108.20
1	N	1336	C	C5'-C4'-O4'	7.48	118.08	109.10
1	N	1483	A	C5-C6-N1	-7.48	113.96	117.70
1	N	925	G	P-O5'-C5'	7.48	132.87	120.90
1	N	952	U	O4'-C1'-N1	7.48	114.19	108.20
1	N	1206	G	C8-N9-C4	-7.48	103.41	106.40
1	N	63	C	C2-N1-C1'	7.48	127.03	118.80
1	N	221	C	C2-N3-C4	7.48	123.64	119.90
1	N	779	C	N3-C4-C5	-7.48	118.91	121.90
1	N	1127	G	C8-N9-C4	-7.48	103.41	106.40
1	N	319	G	C4-C5-C6	7.48	123.29	118.80
1	N	809	G	C5-C6-O6	-7.48	124.11	128.60
1	N	50	A	N1-C6-N6	7.48	123.09	118.60
1	N	1233	G	C8-N9-C4	-7.47	103.41	106.40
1	N	1252	A	N9-C4-C5	-7.47	102.81	105.80
1	N	145	G	O4'-C1'-N9	7.47	114.18	108.20
1	N	296	U	O4'-C1'-N1	7.47	114.18	108.20
1	N	1053	G	P-O3'-C3'	7.47	128.67	119.70
1	N	1423	G	C6-C5-N7	-7.47	125.92	130.40
1	N	675	A	C5-C6-N1	-7.47	113.97	117.70
1	N	1440	U	N3-C4-O4	7.47	124.63	119.40
1	N	146	G	C6-N1-C2	7.47	129.58	125.10
1	N	516	U	C4-C5-C6	-7.47	115.22	119.70
1	N	897	C	N3-C4-C5	-7.47	118.91	121.90
1	N	49	U	P-O5'-C5'	7.46	132.84	120.90
1	N	655	A	C5'-C4'-O4'	7.46	118.06	109.10
1	N	1521	C	O4'-C1'-N1	7.46	114.17	108.20
1	N	1465	A	C4-C5-C6	7.46	120.73	117.00
1	N	155	A	N1-C6-N6	7.46	123.08	118.60
1	N	685	G	C8-N9-C4	7.46	109.38	106.40
1	N	829	G	N3-C4-C5	-7.46	124.87	128.60
1	N	918	A	N1-C6-N6	7.46	123.08	118.60
1	N	1342	C	N1-C2-O2	-7.46	114.42	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	142	G	C8-N9-C4	-7.46	103.42	106.40
1	N	465	A	C8-N9-C4	-7.46	102.82	105.80
1	N	610	U	O4'-C1'-N1	7.46	114.17	108.20
1	N	984	C	C4-C5-C6	-7.46	113.67	117.40
1	N	1069	C	N1-C2-N3	-7.46	113.98	119.20
1	N	300	A	C8-N9-C4	-7.46	102.82	105.80
1	N	1198	G	N3-C4-C5	-7.46	124.87	128.60
1	N	1038	C	C2-N3-C4	7.46	123.63	119.90
1	N	1309	G	N7-C8-N9	-7.45	109.37	113.10
1	N	216	U	O4'-C1'-N1	7.45	114.16	108.20
1	N	1248	A	C8-N9-C4	-7.45	102.82	105.80
1	N	1500	A	C5-C6-N1	-7.45	113.97	117.70
1	N	175	C	N3-C4-N4	7.45	123.22	118.00
1	N	41	G	C5-N7-C8	7.45	108.02	104.30
1	N	266	G	P-O5'-C5'	7.45	132.82	120.90
1	N	359	G	C8-N9-C4	7.45	109.38	106.40
1	N	475	C	N1-C2-O2	-7.45	114.43	118.90
1	N	1369	C	O4'-C1'-N1	7.45	114.16	108.20
1	N	1517	G	C2-N3-C4	7.44	115.62	111.90
1	N	369	G	N3-C2-N2	7.44	125.11	119.90
1	N	681	A	C6-C5-N7	-7.44	127.09	132.30
1	N	1416	G	C4-C5-C6	7.44	123.26	118.80
1	N	1504	G	C5-N7-C8	7.44	108.02	104.30
1	N	402	G	O4'-C1'-N9	7.44	114.15	108.20
1	N	537	G	C8-N9-C4	-7.44	103.42	106.40
1	N	263	A	N9-C4-C5	7.43	108.77	105.80
1	N	748	G	N1-C2-N3	-7.43	119.44	123.90
1	N	964	A	C2-N3-C4	-7.43	106.88	110.60
1	N	1207	G	O4'-C1'-N9	7.43	114.15	108.20
1	N	1340	A	C4-C5-N7	-7.43	106.98	110.70
1	N	1426	G	C8-N9-C4	-7.43	103.43	106.40
1	N	890	G	O4'-C1'-N9	7.43	114.14	108.20
1	N	1115	U	C4-C5-C6	-7.43	115.24	119.70
1	N	440	C	N3-C4-N4	7.43	123.20	118.00
1	N	946	A	N1-C6-N6	7.43	123.06	118.60
1	N	1080	A	C5-C6-N1	-7.43	113.98	117.70
1	N	1117	A	C5-C6-N1	-7.43	113.98	117.70
1	N	1060	U	C4'-C3'-C2'	-7.43	95.17	102.60
1	N	66	A	O4'-C1'-N9	7.43	114.14	108.20
1	N	961	U	N1-C2-O2	-7.43	117.60	122.80
1	N	309	A	C8-N9-C4	-7.42	102.83	105.80
1	N	321	A	N7-C8-N9	-7.42	110.09	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	458	U	C4-C5-C6	7.42	124.15	119.70
1	N	1092	A	O4'-C4'-C3'	-7.42	96.58	104.00
1	N	1511	G	N1-C2-N3	-7.42	119.44	123.90
1	N	1239	A	C4-N9-C1'	-7.42	112.94	126.30
1	N	424	G	C6-C5-N7	-7.42	125.95	130.40
1	N	811	C	C5-C6-N1	7.42	124.71	121.00
1	N	823	C	P-O3'-C3'	7.42	128.60	119.70
1	N	628	G	O4'-C1'-N9	7.42	114.13	108.20
1	N	1450	U	C5-C4-O4	-7.41	121.45	125.90
1	N	1492	A	C4-C5-N7	-7.41	106.99	110.70
1	N	126	G	P-O3'-C3'	7.41	128.59	119.70
1	N	484	G	C5-C6-O6	-7.41	124.15	128.60
1	N	773	G	O4'-C1'-N9	7.41	114.13	108.20
1	N	844	G	N1-C6-O6	7.41	124.35	119.90
1	N	1226	C	O4'-C1'-N1	7.41	114.13	108.20
1	N	251	G	N3-C4-N9	7.41	130.44	126.00
1	N	319	G	C5-C6-O6	-7.41	124.16	128.60
1	N	347	G	N3-C2-N2	7.41	125.09	119.90
1	N	1111	A	C4-C5-N7	-7.41	107.00	110.70
1	N	1289	A	N1-C2-N3	7.41	133.00	129.30
1	N	1389	C	C3'-C2'-C1'	7.41	107.43	101.50
1	N	572	A	C4-C5-C6	7.41	120.70	117.00
1	N	759	A	C2-N3-C4	7.41	114.30	110.60
1	N	1018	G	C5-C6-O6	-7.41	124.16	128.60
1	N	1346	A	N7-C8-N9	-7.41	110.10	113.80
1	N	455	G	N3-C2-N2	7.40	125.08	119.90
1	N	1261	A	N3-C4-C5	-7.40	121.62	126.80
1	N	1390	U	C6-N1-C2	-7.40	116.56	121.00
1	N	1501	C	C1'-O4'-C4'	7.40	115.82	109.90
1	N	351	G	C4-C5-N7	7.40	113.76	110.80
1	N	502	A	N1-C2-N3	-7.40	125.60	129.30
1	N	518	C	N1-C2-O2	-7.40	114.46	118.90
1	N	1058	G	N7-C8-N9	7.40	116.80	113.10
1	N	1155	A	C6-C5-N7	-7.40	127.12	132.30
1	N	1206	G	C2-N3-C4	7.40	115.60	111.90
1	N	132	C	C6-N1-C2	7.40	123.26	120.30
1	N	974	A	P-O3'-C3'	7.40	128.57	119.70
1	N	201	G	C6-C5-N7	-7.39	125.96	130.40
1	N	1197	A	N9-C4-C5	7.39	108.76	105.80
1	N	1332	A	P-O5'-C5'	-7.39	109.07	120.90
1	N	39	G	P-O5'-C5'	-7.39	109.07	120.90
1	N	236	A	N1-C6-N6	7.39	123.04	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	438	U	N1-C2-O2	-7.39	117.63	122.80
1	N	663	A	C5-C6-N6	-7.39	117.79	123.70
1	N	780	A	O4'-C1'-N9	7.39	114.11	108.20
1	N	940	C	P-O5'-C5'	7.39	132.73	120.90
1	N	378	G	C4-C5-N7	7.39	113.76	110.80
1	N	690	G	N1-C6-O6	7.39	124.33	119.90
1	N	908	A	C5-C6-N6	-7.39	117.79	123.70
1	N	989	U	N3-C2-O2	7.39	127.37	122.20
1	N	1335	U	C5-C4-O4	-7.39	121.47	125.90
1	N	117	G	N1-C2-N3	-7.39	119.47	123.90
1	N	318	G	N9-C4-C5	-7.38	102.45	105.40
1	N	382	A	P-O5'-C5'	7.38	132.72	120.90
1	N	652	U	P-O3'-C3'	7.38	128.56	119.70
1	N	1367	C	N3-C4-C5	-7.38	118.95	121.90
1	N	150	U	N3-C4-C5	-7.38	110.17	114.60
1	N	704	A	N7-C8-N9	-7.38	110.11	113.80
1	N	1090	U	N3-C4-O4	7.38	124.57	119.40
1	N	1074	G	N9-C4-C5	-7.38	102.45	105.40
1	N	1191	A	P-O3'-C3'	7.38	128.56	119.70
1	N	694	A	C4-C5-N7	-7.38	107.01	110.70
1	N	866	C	N3-C2-O2	7.38	127.06	121.90
1	N	792	A	C1'-O4'-C4'	7.38	115.80	109.90
1	N	799	G	O4'-C1'-N9	7.38	114.10	108.20
1	N	723	U	O4'-C4'-C3'	-7.37	96.63	104.00
1	N	748	G	N7-C8-N9	-7.37	109.41	113.10
1	N	1448	C	C5-C4-N4	-7.37	115.04	120.20
1	N	910	C	C5-C4-N4	-7.37	115.04	120.20
1	N	204	G	C5-C6-O6	-7.37	124.18	128.60
1	N	218	U	C5'-C4'-O4'	7.37	117.94	109.10
1	N	633	G	C2-N3-C4	-7.37	108.22	111.90
1	N	877	G	C4-C5-C6	7.37	123.22	118.80
1	N	12	U	N3-C2-O2	7.37	127.36	122.20
1	N	545	C	P-O3'-C3'	7.37	128.54	119.70
1	N	643	C	O4'-C1'-N1	7.37	114.09	108.20
1	N	1458	G	C5'-C4'-O4'	7.37	117.94	109.10
1	N	810	C	O4'-C1'-N1	7.37	114.09	108.20
1	N	1246	A	C5-C6-N1	-7.37	114.02	117.70
1	N	1503	A	N1-C6-N6	7.37	123.02	118.60
1	N	1143	G	C6-C5-N7	-7.37	125.98	130.40
1	N	272	C	C4'-C3'-C2'	-7.36	95.24	102.60
1	N	548	G	O4'-C1'-N9	7.36	114.09	108.20
1	N	1186	G	N1-C2-N3	-7.36	119.48	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1246	A	C5-N7-C8	7.36	107.58	103.90
1	N	888	G	O4'-C1'-N9	7.36	114.09	108.20
1	N	1101	A	C2-N3-C4	-7.36	106.92	110.60
1	N	1120	C	P-O5'-C5'	7.36	132.68	120.90
1	N	1310	G	N1-C2-N3	-7.36	119.48	123.90
1	N	182	A	C5-C6-N6	-7.36	117.81	123.70
1	N	902	G	C5-C6-O6	-7.36	124.19	128.60
1	N	1191	A	C4-C5-N7	-7.36	107.02	110.70
1	N	775	G	N9-C4-C5	7.36	108.34	105.40
1	N	1344	C	C4-C5-C6	7.36	121.08	117.40
1	N	140	U	C2'-C3'-O3'	7.35	125.68	109.50
1	N	215	C	N1-C2-O2	7.35	123.31	118.90
1	N	417	G	N7-C8-N9	-7.35	109.42	113.10
1	N	1030	U	C6-N1-C1'	-7.35	110.91	121.20
1	N	1335	U	N1-C2-O2	-7.35	117.65	122.80
1	N	91	U	C1'-O4'-C4'	-7.35	104.02	109.90
1	N	916	U	O4'-C1'-N1	7.35	114.08	108.20
1	N	1225	A	O4'-C1'-N9	7.35	114.08	108.20
1	N	1248	A	C6-C5-N7	-7.35	127.16	132.30
1	N	1421	G	C4-C5-C6	7.35	123.21	118.80
1	N	964	A	C5-N7-C8	7.35	107.57	103.90
1	N	1013	G	O4'-C1'-N9	7.35	114.08	108.20
1	N	832	G	O4'-C1'-N9	7.34	114.08	108.20
1	N	548	G	C8-N9-C4	-7.34	103.46	106.40
1	N	865	A	O4'-C1'-N9	7.34	114.07	108.20
1	N	763	G	O4'-C1'-N9	7.34	114.07	108.20
1	N	1310	G	C5-C6-O6	-7.34	124.20	128.60
1	N	1505	G	C4-C5-N7	-7.34	107.86	110.80
1	N	849	G	C6-C5-N7	-7.34	126.00	130.40
1	N	1193	G	C8-N9-C4	-7.34	103.46	106.40
1	N	1482	G	N1-C2-N2	7.34	122.81	116.20
1	N	127	G	N3-C2-N2	7.34	125.04	119.90
1	N	702	A	C5'-C4'-O4'	7.34	117.91	109.10
1	N	524	G	N1-C2-N3	-7.33	119.50	123.90
1	N	695	A	P-O5'-C5'	7.33	132.64	120.90
1	N	547	A	N1-C2-N3	-7.33	125.63	129.30
1	N	860	A	C6-C5-N7	-7.33	127.17	132.30
1	N	1154	G	N9-C1'-C2'	-7.33	103.93	112.00
1	N	1255	G	P-O5'-C5'	7.33	132.63	120.90
1	N	1256	A	C8-N9-C4	7.33	108.73	105.80
1	N	281	G	N3-C4-N9	7.33	130.40	126.00
1	N	287	U	O4'-C1'-N1	7.33	114.06	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	966	G	C5-C6-O6	-7.33	124.20	128.60
1	N	1206	G	C4-C5-C6	7.33	123.20	118.80
1	N	478	A	C5-C6-N6	-7.33	117.84	123.70
1	N	1032	G	O4'-C1'-N9	7.33	114.06	108.20
1	N	1475	G	N3-C2-N2	7.33	125.03	119.90
1	N	1505	G	C5-C6-N1	-7.33	107.84	111.50
1	N	294	U	C4-C5-C6	-7.33	115.31	119.70
1	N	656	G	C4-C5-C6	7.33	123.19	118.80
1	N	659	U	C3'-C2'-C1'	-7.33	95.64	101.50
1	N	869	G	O4'-C1'-N9	7.33	114.06	108.20
1	N	1362	A	C1'-O4'-C4'	-7.33	104.04	109.90
1	N	1461	G	C5-C6-O6	-7.33	124.20	128.60
1	N	1052	U	C4-C5-C6	-7.32	115.31	119.70
1	N	1010	U	O4'-C1'-N1	7.32	114.06	108.20
1	N	1191	A	C8-N9-C4	-7.32	102.87	105.80
1	N	1205	U	N3-C2-O2	7.32	127.33	122.20
1	N	291	U	C6-N1-C2	-7.32	116.61	121.00
1	N	753	A	C4-C5-C6	7.32	120.66	117.00
1	N	771	G	C5-C6-N1	-7.32	107.84	111.50
1	N	976	G	C4-C5-N7	-7.32	107.87	110.80
1	N	1167	A	N9-C4-C5	7.32	108.73	105.80
1	N	374	A	C4-N9-C1'	-7.32	113.13	126.30
1	N	494	G	N3-C4-N9	7.32	130.39	126.00
1	N	829	G	N3-C2-N2	7.32	125.02	119.90
1	N	983	A	C8-N9-C4	7.32	108.73	105.80
1	N	350	G	N3-C4-C5	7.32	132.26	128.60
1	N	980	C	C1'-O4'-C4'	-7.32	104.05	109.90
1	N	1127	G	C6-C5-N7	-7.32	126.01	130.40
1	N	1348	U	C5'-C4'-O4'	-7.32	100.32	109.10
1	N	359	G	N1-C2-N3	-7.31	119.51	123.90
1	N	369	G	N1-C2-N3	-7.31	119.51	123.90
1	N	818	G	P-O3'-C3'	7.31	128.47	119.70
1	N	1076	U	N3-C4-O4	7.31	124.52	119.40
1	N	1270	G	N9-C4-C5	-7.31	102.47	105.40
1	N	198	G	P-O5'-C5'	7.31	132.60	120.90
1	N	406	G	N1-C6-O6	7.31	124.29	119.90
1	N	1431	A	O4'-C1'-N9	7.31	114.05	108.20
1	N	326	G	N7-C8-N9	7.31	116.75	113.10
1	N	522	C	O4'-C1'-N1	7.31	114.05	108.20
1	N	1109	C	P-O3'-C3'	7.31	128.47	119.70
1	N	1422	G	C6-C5-N7	-7.31	126.01	130.40
1	N	1091	U	N1-C2-N3	-7.31	110.52	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	96	U	C5-C4-O4	-7.30	121.52	125.90
1	N	129	A	C2-N3-C4	-7.30	106.95	110.60
1	N	137	U	O4'-C1'-N1	7.30	114.04	108.20
1	N	219	U	O4'-C1'-N1	7.30	114.04	108.20
1	N	982	U	P-O5'-C5'	7.30	132.59	120.90
1	N	55	A	N1-C2-N3	7.30	132.95	129.30
1	N	1090	U	N3-C2-O2	7.30	127.31	122.20
1	N	694	A	C5-N7-C8	7.30	107.55	103.90
1	N	834	U	C3'-C2'-C1'	7.30	107.34	101.50
1	N	94	G	C5-N7-C8	7.30	107.95	104.30
1	N	361	G	P-O5'-C5'	7.30	132.58	120.90
1	N	694	A	O4'-C1'-N9	7.30	114.04	108.20
1	N	1286	U	N3-C4-O4	7.30	124.51	119.40
1	N	1351	U	N1-C2-O2	-7.30	117.69	122.80
1	N	951	G	N9-C4-C5	-7.30	102.48	105.40
1	N	630	A	C6-N1-C2	7.29	122.98	118.60
1	N	816	A	C6-C5-N7	-7.29	127.19	132.30
1	N	897	C	N1-C2-O2	7.29	123.28	118.90
1	N	902	G	N3-C2-N2	7.29	125.00	119.90
1	N	1480	A	N3-C4-N9	7.29	133.24	127.40
1	N	1177	G	N3-C2-N2	7.29	125.00	119.90
1	N	482	A	N7-C8-N9	-7.29	110.16	113.80
1	N	39	G	N9-C4-C5	-7.29	102.48	105.40
1	N	134	G	C4-N9-C1'	7.29	135.97	126.50
1	N	362	G	N3-C2-N2	7.29	125.00	119.90
1	N	499	A	P-O3'-C3'	7.29	128.45	119.70
1	N	556	C	N3-C4-C5	-7.29	118.98	121.90
1	N	1272	G	C5-C6-N1	-7.29	107.86	111.50
1	N	428	G	O4'-C1'-N9	7.29	114.03	108.20
1	N	440	C	C6-N1-C2	-7.29	117.39	120.30
1	N	1147	C	N1-C2-O2	-7.29	114.53	118.90
1	N	1194	U	N3-C4-O4	7.29	124.50	119.40
1	N	805	C	C5-C4-N4	7.28	125.30	120.20
1	N	1042	A	N1-C2-N3	7.28	132.94	129.30
1	N	1499	A	C5-C6-N1	-7.28	114.06	117.70
1	N	782	A	C2-N3-C4	-7.28	106.96	110.60
1	N	23	C	P-O5'-C5'	7.28	132.55	120.90
1	N	284	C	N1-C2-N3	-7.28	114.11	119.20
1	N	1292	G	N7-C8-N9	-7.28	109.46	113.10
1	N	1455	G	C4-C5-C6	7.28	123.17	118.80
1	N	40	C	C5-C6-N1	7.28	124.64	121.00
1	N	253	A	C5-C6-N6	-7.28	117.88	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	504	C	C5-C6-N1	7.28	124.64	121.00
1	N	788	U	N1-C2-N3	-7.28	110.53	114.90
1	N	898	G	C4-C5-N7	7.27	113.71	110.80
1	N	122	G	C2-N3-C4	-7.27	108.27	111.90
1	N	656	G	C8-N9-C4	7.27	109.31	106.40
1	N	1140	C	N3-C2-O2	7.27	126.99	121.90
1	N	351	G	C6-C5-N7	-7.27	126.04	130.40
1	N	750	C	C6-N1-C1'	-7.27	112.08	120.80
1	N	1165	U	C4-C5-C6	-7.27	115.34	119.70
1	N	95	C	N3-C4-C5	-7.27	118.99	121.90
1	N	149	A	C6-C5-N7	-7.26	127.22	132.30
1	N	402	G	N1-C2-N3	-7.26	119.54	123.90
1	N	857	C	N3-C4-C5	-7.26	118.99	121.90
1	N	1506	U	O4'-C1'-N1	7.26	114.01	108.20
1	N	532	A	C5-C6-N6	-7.26	117.89	123.70
1	N	704	A	C2-N3-C4	7.26	114.23	110.60
1	N	810	C	N3-C4-N4	7.26	123.08	118.00
1	N	929	G	C4-C5-N7	7.26	113.70	110.80
1	N	1326	U	C2-N3-C4	-7.26	122.64	127.00
1	N	127	G	O4'-C1'-N9	7.26	114.00	108.20
1	N	321	A	C6-C5-N7	-7.26	127.22	132.30
1	N	422	C	O3'-P-O5'	-7.26	90.21	104.00
1	N	681	A	O4'-C1'-N9	7.26	114.00	108.20
1	N	1390	U	C5'-C4'-C3'	7.26	127.61	116.00
1	N	1392	G	N7-C8-N9	7.26	116.73	113.10
1	N	138	G	C4-C5-N7	7.25	113.70	110.80
1	N	389	A	N9-C4-C5	7.25	108.70	105.80
1	N	232	G	N3-C4-C5	-7.25	124.97	128.60
1	N	672	U	C5'-C4'-C3'	-7.25	104.40	116.00
1	N	729	A	N1-C2-N3	-7.25	125.67	129.30
1	N	1285	A	N9-C4-C5	7.25	108.70	105.80
1	N	1341	U	N3-C2-O2	7.25	127.28	122.20
1	N	929	G	C5-C6-O6	-7.25	124.25	128.60
1	N	1015	G	C6-N1-C2	7.25	129.45	125.10
1	N	1039	G	N1-C2-N3	-7.25	119.55	123.90
1	N	25	C	N1-C2-N3	-7.25	114.13	119.20
1	N	273	U	O4'-C1'-N1	7.25	114.00	108.20
1	N	423	G	C8-N9-C4	-7.25	103.50	106.40
1	N	775	G	C4'-C3'-C2'	-7.25	95.35	102.60
1	N	810	C	P-O3'-C3'	-7.25	111.00	119.70
1	N	852	G	N1-C6-O6	7.25	124.25	119.90
1	N	1514	G	C4-C5-C6	7.25	123.15	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	668	G	N1-C2-N3	-7.25	119.55	123.90
1	N	308	C	C5-C4-N4	-7.24	115.13	120.20
1	N	114	U	N3-C2-O2	7.24	127.27	122.20
1	N	815	A	O4'-C4'-C3'	-7.24	96.76	104.00
1	N	1104	G	N1-C2-N3	-7.24	119.56	123.90
1	N	448	A	N9-C4-C5	-7.24	102.91	105.80
1	N	850	U	P-O3'-C3'	-7.24	111.01	119.70
1	N	902	G	C4-C5-N7	7.24	113.70	110.80
1	N	1075	U	P-O3'-C3'	-7.24	111.01	119.70
1	N	1359	C	N3-C4-N4	7.24	123.07	118.00
1	N	1398	A	C5-C6-N1	-7.24	114.08	117.70
1	N	880	C	O4'-C1'-N1	7.24	113.99	108.20
1	N	1384	C	O4'-C1'-N1	7.24	113.99	108.20
1	N	148	G	C1'-O4'-C4'	-7.24	104.11	109.90
1	N	208	U	C6-N1-C2	-7.24	116.66	121.00
1	N	17	U	N3-C4-C5	-7.23	110.26	114.60
1	N	433	G	C5-C6-N1	-7.23	107.88	111.50
1	N	8	A	C5-C6-N6	-7.23	117.92	123.70
1	N	308	C	C5'-C4'-O4'	-7.23	100.42	109.10
1	N	1519	A	N9-C4-C5	7.23	108.69	105.80
1	N	455	G	C4-C5-N7	7.23	113.69	110.80
1	N	533	A	C5-C6-N1	-7.23	114.08	117.70
1	N	704	A	N3-C4-C5	-7.23	121.74	126.80
1	N	1162	C	O4'-C1'-N1	7.23	113.98	108.20
1	N	553	A	C5-C6-N6	-7.23	117.92	123.70
1	N	265	G	N3-C2-N2	7.23	124.96	119.90
1	N	725	G	N3-C4-N9	-7.23	121.66	126.00
1	N	930	C	N3-C4-N4	7.23	123.06	118.00
1	N	1460	C	C4-C5-C6	7.23	121.01	117.40
1	N	318	G	N3-C4-N9	7.22	130.33	126.00
1	N	419	C	C4-C5-C6	7.22	121.01	117.40
1	N	586	C	C2'-C3'-O3'	7.22	125.39	109.50
1	N	628	G	N1-C2-N3	-7.22	119.57	123.90
1	N	838	G	C8-N9-C4	-7.22	103.51	106.40
1	N	1153	G	O4'-C1'-N9	7.22	113.98	108.20
1	N	98	A	C6-N1-C2	-7.22	114.27	118.60
1	N	346	G	C4'-C3'-C2'	7.22	109.82	102.60
1	N	145	G	C5-C6-O6	-7.22	124.27	128.60
1	N	35	G	N7-C8-N9	-7.22	109.49	113.10
1	N	531	U	P-O5'-C5'	7.22	132.45	120.90
1	N	1120	C	C5-C4-N4	7.22	125.25	120.20
1	N	1439	G	N3-C2-N2	7.22	124.95	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	226	G	C6-C5-N7	-7.21	126.07	130.40
1	N	1244	G	C3'-C2'-C1'	-7.21	95.73	101.50
1	N	1318	A	C1'-O4'-C4'	-7.21	104.13	109.90
1	N	1335	U	C2-N3-C4	-7.21	122.67	127.00
1	N	1360	A	N1-C6-N6	7.21	122.93	118.60
1	N	41	G	N1-C2-N3	-7.21	119.57	123.90
1	N	129	A	N9-C4-C5	-7.21	102.92	105.80
1	N	319	G	C2-N3-C4	-7.21	108.29	111.90
1	N	1006	G	N3-C2-N2	7.21	124.95	119.90
1	N	1064	G	C5'-C4'-C3'	7.21	127.54	116.00
1	N	1166	G	N3-C4-C5	-7.21	124.99	128.60
1	N	1404	C	O4'-C1'-N1	7.21	113.97	108.20
1	N	130	A	N1-C2-N3	-7.21	125.69	129.30
1	N	535	A	C4-C5-C6	7.21	120.60	117.00
1	N	1261	A	C2-N3-C4	7.21	114.20	110.60
1	N	7	A	P-O3'-C3'	7.21	128.35	119.70
1	N	285	C	N3-C4-C5	-7.21	119.02	121.90
1	N	302	G	C5-C6-O6	-7.21	124.28	128.60
1	N	440	C	N3-C4-C5	-7.21	119.02	121.90
1	N	667	G	C4-C5-C6	7.21	123.12	118.80
1	N	1287	A	C8-N9-C4	-7.21	102.92	105.80
1	N	147	G	C4-C5-N7	7.20	113.68	110.80
1	N	294	U	N3-C4-C5	7.20	118.92	114.60
1	N	938	A	C4-C5-C6	7.20	120.60	117.00
1	N	966	G	C6-N1-C2	7.20	129.42	125.10
1	N	244	U	C2-N3-C4	-7.20	122.68	127.00
1	N	652	U	C5-C6-N1	7.20	126.30	122.70
1	N	14	U	C4-C5-C6	7.20	124.02	119.70
1	N	112	G	C4'-C3'-C2'	-7.20	95.40	102.60
1	N	151	A	C5-C6-N6	-7.20	117.94	123.70
1	N	816	A	C4-C5-C6	7.20	120.60	117.00
1	N	907	A	C2-N3-C4	-7.20	107.00	110.60
1	N	998	C	O4'-C1'-N1	7.20	113.96	108.20
1	N	1278	G	C5-C6-N1	-7.20	107.90	111.50
1	N	332	G	C5-C6-O6	-7.20	124.28	128.60
1	N	754	C	P-O3'-C3'	7.20	128.34	119.70
1	N	1025	U	O4'-C1'-N1	7.20	113.96	108.20
1	N	1046	A	C5-C6-N1	-7.20	114.10	117.70
1	N	614	C	C6-N1-C2	-7.20	117.42	120.30
1	N	1052	U	C5-C6-N1	7.20	126.30	122.70
1	N	885	G	C8-N9-C4	-7.19	103.52	106.40
1	N	1146	A	C4-C5-C6	7.19	120.60	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1387	G	P-O3'-C3'	7.19	128.33	119.70
1	N	513	C	P-O3'-C3'	7.19	128.33	119.70
1	N	754	C	N3-C4-N4	7.19	123.03	118.00
1	N	851	G	O4'-C1'-N9	7.19	113.95	108.20
1	N	1031	C	C1'-O4'-C4'	-7.19	104.15	109.90
1	N	1126	U	C6-N1-C2	-7.19	116.69	121.00
1	N	1263	C	N3-C4-C5	-7.19	119.02	121.90
1	N	1276	G	N3-C2-N2	7.19	124.93	119.90
1	N	373	A	C5'-C4'-O4'	-7.19	100.47	109.10
1	N	1197	A	N1-C2-N3	7.19	132.89	129.30
1	N	117	G	N3-C4-C5	-7.19	125.01	128.60
1	N	801	U	N1-C2-N3	7.19	119.21	114.90
1	N	769	G	C8-N9-C4	-7.18	103.53	106.40
1	N	842	U	N3-C4-O4	7.18	124.43	119.40
1	N	294	U	P-O5'-C5'	7.18	132.39	120.90
1	N	312	C	N3-C4-N4	7.18	123.03	118.00
1	N	754	C	C2-N1-C1'	7.18	126.70	118.80
1	N	1167	A	O4'-C1'-N9	7.18	113.94	108.20
1	N	846	G	C3'-C2'-C1'	7.18	107.25	101.50
1	N	1171	A	C6-C5-N7	-7.18	127.27	132.30
1	N	1197	A	C5-C6-N1	-7.18	114.11	117.70
1	N	689	C	N3-C4-N4	7.18	123.03	118.00
1	N	821	G	N1-C6-O6	7.18	124.21	119.90
1	N	1207	G	C2-N3-C4	7.18	115.49	111.90
1	N	238	A	C2-N3-C4	7.18	114.19	110.60
1	N	357	G	N1-C2-N3	-7.18	119.59	123.90
1	N	718	A	C6-C5-N7	-7.18	127.28	132.30
1	N	1139	G	C5-C6-O6	-7.18	124.29	128.60
1	N	1216	A	C5-C6-N1	-7.18	114.11	117.70
1	N	111	G	O4'-C1'-N9	7.17	113.94	108.20
1	N	674	G	N7-C8-N9	-7.17	109.51	113.10
1	N	737	C	N3-C4-C5	-7.17	119.03	121.90
1	N	1099	G	C6-C5-N7	-7.17	126.09	130.40
1	N	1324	A	C8-N9-C4	-7.17	102.93	105.80
1	N	78	A	P-O3'-C3'	7.17	128.31	119.70
1	N	183	C	N3-C4-N4	7.17	123.02	118.00
1	N	480	U	P-O3'-C3'	7.17	128.31	119.70
1	N	882	C	C4'-C3'-C2'	-7.17	95.43	102.60
1	N	1210	C	N1-C2-O2	7.17	123.20	118.90
1	N	1337	G	N3-C2-N2	7.17	124.92	119.90
1	N	724	G	P-O5'-C5'	-7.17	109.43	120.90
1	N	452	A	O4'-C1'-N9	7.17	113.93	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1284	C	C6-N1-C1'	-7.17	112.20	120.80
1	N	1447	A	N9-C4-C5	7.17	108.67	105.80
1	N	957	U	N3-C4-O4	7.17	124.42	119.40
1	N	1167	A	N1-C6-N6	7.17	122.90	118.60
1	N	170	U	O5'-P-OP2	7.16	119.30	110.70
1	N	1057	G	C4-C5-C6	7.16	123.10	118.80
1	N	706	A	C5-C6-N6	-7.16	117.97	123.70
1	N	1274	A	N1-C6-N6	7.16	122.90	118.60
1	N	106	C	C5-C6-N1	7.16	124.58	121.00
1	N	200	G	N3-C2-N2	7.16	124.91	119.90
1	N	361	G	C5-N7-C8	7.16	107.88	104.30
1	N	404	G	N3-C2-N2	7.16	124.91	119.90
1	N	680	C	P-O3'-C3'	7.16	128.29	119.70
1	N	1116	U	N3-C4-C5	-7.16	110.30	114.60
1	N	69	G	N1-C2-N3	-7.16	119.61	123.90
1	N	590	U	N1-C2-N3	-7.16	110.60	114.90
1	N	770	C	C2-N1-C1'	7.16	126.67	118.80
1	N	1002	G	O4'-C1'-N9	7.16	113.93	108.20
1	N	289	G	C5-C6-N1	-7.16	107.92	111.50
1	N	660	C	N3-C4-N4	7.16	123.01	118.00
1	N	1322	C	C6-N1-C1'	-7.16	112.21	120.80
1	N	873	A	O5'-C5'-C4'	7.16	125.29	111.70
1	N	968	A	N1-C6-N6	7.16	122.89	118.60
1	N	1534	A	C5-C6-N6	-7.16	117.97	123.70
1	N	74	A	O4'-C4'-C3'	-7.15	96.85	104.00
1	N	54	C	O4'-C1'-N1	7.15	113.92	108.20
1	N	621	A	C5-N7-C8	7.15	107.48	103.90
1	N	797	C	C2-N3-C4	-7.15	116.32	119.90
1	N	887	G	C6-C5-N7	-7.15	126.11	130.40
1	N	81	A	C8-N9-C4	-7.15	102.94	105.80
1	N	557	G	N7-C8-N9	7.15	116.67	113.10
1	N	793	U	C2-N1-C1'	7.15	126.28	117.70
1	N	1158	C	C5-C6-N1	7.15	124.58	121.00
1	N	1326	U	C4'-C3'-C2'	-7.15	95.45	102.60
1	N	428	G	C5'-C4'-O4'	-7.15	100.52	109.10
1	N	1000	A	C4-C5-C6	7.15	120.57	117.00
1	N	1366	C	N3-C4-C5	-7.15	119.04	121.90
1	N	258	G	P-O5'-C5'	7.15	132.33	120.90
1	N	1420	U	C2-N3-C4	7.15	131.29	127.00
1	N	332	G	N9-C4-C5	-7.14	102.54	105.40
1	N	1060	U	N3-C2-O2	7.14	127.20	122.20
1	N	174	A	N1-C2-N3	-7.14	125.73	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	467	U	C5-C6-N1	7.14	126.27	122.70
1	N	549	C	N3-C4-N4	7.14	123.00	118.00
1	N	1037	C	C5-C6-N1	7.14	124.57	121.00
1	N	61	G	N3-C4-C5	-7.14	125.03	128.60
1	N	71	A	C1'-O4'-C4'	7.14	115.61	109.90
1	N	604	G	C5-C6-N1	-7.14	107.93	111.50
1	N	736	C	C2-N3-C4	7.14	123.47	119.90
1	N	1296	C	C6-N1-C1'	-7.14	112.23	120.80
1	N	1279	G	C4-C5-C6	7.14	123.08	118.80
1	N	288	A	C4-C5-N7	-7.14	107.13	110.70
1	N	842	U	C5-C4-O4	-7.14	121.62	125.90
1	N	311	C	N3-C2-O2	7.13	126.89	121.90
1	N	356	A	C5-N7-C8	7.13	107.47	103.90
1	N	433	G	C6-C5-N7	-7.13	126.12	130.40
1	N	1163	A	C5-C6-N6	-7.13	117.99	123.70
1	N	1186	G	N1-C6-O6	7.13	124.18	119.90
1	N	1291	U	N1-C2-O2	7.13	127.79	122.80
1	N	1319	A	C5-C6-N6	-7.13	117.99	123.70
1	N	358	U	C5-C6-N1	7.13	126.27	122.70
1	N	675	A	C5-C6-N6	-7.13	117.99	123.70
1	N	210	C	C2-N3-C4	7.13	123.47	119.90
1	N	366	A	N1-C6-N6	7.13	122.88	118.60
1	N	825	A	N7-C8-N9	7.13	117.37	113.80
1	N	860	A	C4-C5-N7	7.13	114.27	110.70
1	N	1124	G	N7-C8-N9	7.13	116.67	113.10
1	N	1253	G	P-O3'-C3'	-7.13	111.14	119.70
1	N	177	G	N3-C4-N9	-7.13	121.72	126.00
1	N	298	A	C2-N3-C4	-7.13	107.03	110.60
1	N	1302	C	P-O5'-C5'	7.13	132.31	120.90
1	N	336	A	P-O3'-C3'	-7.13	111.14	119.70
1	N	583	A	N1-C6-N6	-7.13	114.32	118.60
1	N	1362	A	C4-C5-C6	7.13	120.56	117.00
1	N	57	G	C5-C6-N1	-7.13	107.94	111.50
1	N	155	A	C2-N3-C4	7.13	114.16	110.60
1	N	700	G	C8-N9-C4	-7.13	103.55	106.40
1	N	834	U	C1'-O4'-C4'	7.12	115.60	109.90
1	N	914	A	C2-N3-C4	-7.12	107.04	110.60
1	N	155	A	C8-N9-C4	-7.12	102.95	105.80
1	N	711	G	C5-N7-C8	-7.12	100.74	104.30
1	N	813	U	O4'-C1'-N1	7.12	113.90	108.20
1	N	1497	G	C4-N9-C1'	-7.12	117.24	126.50
1	N	492	C	O4'-C1'-N1	7.12	113.90	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	705	G	C4'-C3'-C2'	-7.12	95.48	102.60
1	N	937	A	O4'-C1'-N9	7.12	113.89	108.20
1	N	1315	U	O4'-C1'-N1	7.12	113.89	108.20
1	N	689	C	O4'-C1'-N1	7.12	113.89	108.20
1	N	1065	U	N1-C2-O2	7.12	127.78	122.80
1	N	1414	U	N3-C4-O4	-7.12	114.42	119.40
1	N	572	A	C5-C6-N1	-7.11	114.14	117.70
1	N	1229	A	O4'-C1'-N9	7.11	113.89	108.20
1	N	1448	C	N3-C4-N4	7.11	122.98	118.00
1	N	702	A	C8-N9-C4	-7.11	102.95	105.80
1	N	455	G	N1-C2-N3	-7.11	119.63	123.90
1	N	494	G	O4'-C1'-N9	7.11	113.89	108.20
1	N	877	G	C5-C6-N1	-7.11	107.94	111.50
1	N	1063	C	P-O3'-C3'	-7.11	111.17	119.70
1	N	1148	U	O4'-C1'-N1	7.11	113.89	108.20
1	N	1415	G	C4-C5-N7	-7.11	107.96	110.80
1	N	1470	U	C5-C6-N1	7.11	126.25	122.70
1	N	291	U	O4'-C1'-N1	7.11	113.89	108.20
1	N	530	G	C8-N9-C4	-7.11	103.56	106.40
1	N	952	U	C5-C4-O4	-7.11	121.64	125.90
1	N	654	G	C4-C5-N7	7.11	113.64	110.80
1	N	662	U	N3-C4-O4	7.11	124.37	119.40
1	N	1379	G	C2-N3-C4	7.11	115.45	111.90
1	N	1427	C	C6-N1-C2	-7.11	117.46	120.30
1	N	695	A	N7-C8-N9	-7.10	110.25	113.80
1	N	921	U	N3-C2-O2	7.10	127.17	122.20
1	N	771	G	C8-N9-C4	7.10	109.24	106.40
1	N	1066	C	C3'-C2'-C1'	7.10	107.18	101.50
1	N	1097	C	N3-C4-C5	-7.10	119.06	121.90
1	N	1489	G	N1-C6-O6	7.10	124.16	119.90
1	N	601	G	O4'-C1'-N9	7.10	113.88	108.20
1	N	1239	A	C8-N9-C4	7.10	108.64	105.80
1	N	130	A	C6-C5-N7	-7.10	127.33	132.30
1	N	1003	G	C1'-O4'-C4'	7.10	115.58	109.90
1	N	1071	C	C4'-C3'-C2'	-7.10	95.50	102.60
1	N	1076	U	C6-N1-C2	-7.10	116.74	121.00
1	N	295	C	C4-C5-C6	-7.10	113.85	117.40
1	N	332	G	C6-C5-N7	-7.10	126.14	130.40
1	N	1136	C	C6-N1-C1'	-7.10	112.28	120.80
1	N	224	U	OP1-P-OP2	-7.09	108.96	119.60
1	N	270	A	C8-N9-C4	-7.09	102.96	105.80
1	N	316	C	C5-C6-N1	7.09	124.55	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1505	G	N3-C2-N2	7.09	124.87	119.90
1	N	789	U	O4'-C1'-N1	7.09	113.87	108.20
1	N	654	G	N9-C4-C5	-7.09	102.56	105.40
1	N	853	C	N3-C2-O2	7.09	126.86	121.90
1	N	877	G	N9-C4-C5	-7.09	102.56	105.40
1	N	906	A	C6-N1-C2	-7.09	114.34	118.60
1	N	974	A	C5-C6-N6	-7.09	118.03	123.70
1	N	1391	U	N3-C2-O2	7.09	127.16	122.20
1	N	446	G	O4'-C1'-N9	7.09	113.87	108.20
1	N	749	A	N1-C6-N6	7.09	122.85	118.60
1	N	1433	A	C2-N3-C4	-7.09	107.06	110.60
1	N	1436	U	O4'-C1'-N1	7.09	113.87	108.20
1	N	1067	A	C8-N9-C4	7.08	108.63	105.80
1	N	1168	U	C5-C4-O4	-7.08	121.65	125.90
1	N	1313	U	N3-C4-C5	-7.08	110.35	114.60
1	N	243	A	P-O3'-C3'	7.08	128.20	119.70
1	N	186	C	N3-C4-N4	7.08	122.96	118.00
1	N	1217	C	N1-C2-O2	-7.08	114.65	118.90
1	N	1280	A	C5-C6-N6	-7.08	118.03	123.70
1	N	1432	G	C6-C5-N7	-7.08	126.15	130.40
1	N	252	U	C5-C6-N1	-7.08	119.16	122.70
1	N	441	A	N1-C6-N6	7.08	122.85	118.60
1	N	572	A	P-O3'-C3'	7.08	128.19	119.70
1	N	855	U	O4'-C1'-N1	7.08	113.86	108.20
1	N	429	U	C4-C5-C6	7.08	123.94	119.70
1	N	719	C	O4'-C1'-N1	7.08	113.86	108.20
1	N	830	G	C5-C6-N1	-7.08	107.96	111.50
1	N	1178	G	C4-C5-C6	7.08	123.05	118.80
1	N	1218	C	C6-N1-C2	-7.08	117.47	120.30
1	N	1246	A	N1-C6-N6	7.08	122.85	118.60
1	N	104	G	C6-C5-N7	-7.07	126.16	130.40
1	N	436	C	O4'-C1'-N1	7.07	113.86	108.20
1	N	1291	U	N3-C4-O4	7.07	124.35	119.40
1	N	1074	G	C4-C5-N7	7.07	113.63	110.80
1	N	1331	G	O4'-C1'-N9	7.07	113.86	108.20
1	N	119	A	O3'-P-O5'	7.07	117.43	104.00
1	N	469	C	O4'-C1'-N1	7.07	113.86	108.20
1	N	76	G	N3-C2-N2	7.07	124.85	119.90
1	N	389	A	O4'-C1'-N9	7.07	113.85	108.20
1	N	514	C	O4'-C1'-N1	7.07	113.86	108.20
1	N	1199	U	C6-N1-C2	-7.07	116.76	121.00
1	N	214	C	N3-C4-C5	-7.07	119.07	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	965	U	N3-C4-C5	-7.07	110.36	114.60
1	N	1316	G	C5'-C4'-O4'	7.07	117.58	109.10
1	N	1335	U	C1'-O4'-C4'	-7.07	104.25	109.90
1	N	1496	C	N3-C2-O2	7.07	126.85	121.90
1	N	1209	C	C6-N1-C2	-7.06	117.47	120.30
1	N	843	U	C2-N3-C4	-7.06	122.76	127.00
1	N	844	G	C4-C5-N7	-7.06	107.97	110.80
1	N	861	G	C6-N1-C2	7.06	129.34	125.10
1	N	895	G	N9-C4-C5	-7.06	102.58	105.40
1	N	925	G	N7-C8-N9	-7.06	109.57	113.10
1	N	1441	A	N1-C6-N6	7.06	122.84	118.60
1	N	819	A	C5-C6-N1	-7.06	114.17	117.70
1	N	494	G	C5-C6-O6	-7.06	124.36	128.60
1	N	731	G	C5-C6-O6	-7.06	124.36	128.60
1	N	751	U	P-O3'-C3'	7.06	128.17	119.70
1	N	602	A	C3'-C2'-C1'	-7.06	95.85	101.50
1	N	624	C	N3-C4-N4	7.06	122.94	118.00
1	N	1207	G	N1-C6-O6	7.06	124.14	119.90
1	N	75	G	C5'-C4'-O4'	7.05	117.57	109.10
1	N	1425	U	O4'-C1'-N1	7.05	113.84	108.20
1	N	1454	G	C3'-C2'-C1'	-7.05	95.86	101.50
1	N	1489	G	O4'-C4'-C3'	-7.05	96.94	104.00
1	N	37	U	P-O3'-C3'	7.05	128.16	119.70
1	N	102	G	C4-C5-N7	-7.05	107.98	110.80
1	N	130	A	C3'-C2'-C1'	-7.05	95.86	101.50
1	N	348	G	C4-C5-N7	-7.05	107.98	110.80
1	N	758	C	C4'-C3'-C2'	-7.05	95.55	102.60
1	N	1022	A	C6-C5-N7	-7.05	127.36	132.30
1	N	1054	C	O4'-C1'-N1	7.05	113.84	108.20
1	N	1251	A	N9-C4-C5	7.05	108.62	105.80
1	N	398	U	N3-C4-O4	7.05	124.33	119.40
1	N	500	G	N9-C1'-C2'	-7.05	104.25	112.00
1	N	563	A	N1-C6-N6	7.05	122.83	118.60
1	N	1242	G	C5-C6-N1	-7.05	107.98	111.50
1	N	306	A	C5-C6-N1	-7.04	114.18	117.70
1	N	809	G	O4'-C1'-N9	7.04	113.84	108.20
1	N	306	A	C6-N1-C2	7.04	122.83	118.60
1	N	533	A	C5-N7-C8	7.04	107.42	103.90
1	N	1032	G	N1-C2-N3	-7.04	119.67	123.90
1	N	129	A	C5-C6-N6	-7.04	118.07	123.70
1	N	1333	A	C4'-C3'-C2'	-7.04	95.56	102.60
1	N	347	G	N7-C8-N9	7.04	116.62	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	498	A	C8-N9-C4	-7.04	102.98	105.80
1	N	867	G	C6-C5-N7	-7.04	126.18	130.40
1	N	912	C	O4'-C1'-N1	7.04	113.83	108.20
1	N	1047	G	C6-C5-N7	-7.04	126.18	130.40
1	N	227	G	O4'-C1'-N9	7.04	113.83	108.20
1	N	310	G	N1-C6-O6	7.04	124.12	119.90
1	N	490	C	C2-N3-C4	7.04	123.42	119.90
1	N	995	C	O4'-C1'-N1	7.04	113.83	108.20
1	N	1043	G	C4-C5-N7	-7.04	107.99	110.80
1	N	1326	U	C5-C6-N1	7.04	126.22	122.70
1	N	404	G	O4'-C1'-N9	7.03	113.83	108.20
1	N	1266	G	C8-N9-C4	-7.03	103.59	106.40
1	N	435	A	C4-C5-C6	7.03	120.52	117.00
1	N	865	A	C5-C6-N1	-7.03	114.19	117.70
1	N	967	C	C5-C6-N1	7.03	124.52	121.00
1	N	1265	C	C5'-C4'-O4'	7.03	117.54	109.10
1	N	1519	A	N1-C2-N3	7.03	132.82	129.30
1	N	860	A	C5-C6-N6	-7.03	118.08	123.70
1	N	619	U	N3-C4-C5	-7.03	110.38	114.60
1	N	971	G	N1-C6-O6	7.03	124.12	119.90
1	N	1060	U	C5-C4-O4	-7.03	121.68	125.90
1	N	1493	A	P-O3'-C3'	7.03	128.13	119.70
1	N	484	G	N3-C2-N2	7.03	124.82	119.90
1	N	811	C	N3-C4-C5	-7.03	119.09	121.90
1	N	965	U	N1-C2-O2	-7.03	117.88	122.80
1	N	1247	U	C5-C4-O4	7.03	130.12	125.90
1	N	326	G	C8-N9-C4	-7.02	103.59	106.40
1	N	46	G	N1-C6-O6	7.02	124.11	119.90
1	N	276	G	C6-N1-C2	7.02	129.31	125.10
1	N	450	G	P-O3'-C3'	7.02	128.13	119.70
1	N	768	A	C5-C6-N6	-7.02	118.08	123.70
1	N	1476	A	O4'-C1'-N9	7.02	113.82	108.20
1	N	207	C	N3-C2-O2	7.02	126.81	121.90
1	N	656	G	C4'-C3'-C2'	-7.02	95.58	102.60
1	N	723	U	C5'-C4'-O4'	7.02	117.52	109.10
1	N	748	G	C2-N3-C4	7.02	115.41	111.90
1	N	827	U	C5'-C4'-C3'	7.02	127.23	116.00
1	N	1127	G	C2-N3-C4	7.02	115.41	111.90
1	N	1281	C	N1-C2-O2	7.02	123.11	118.90
1	N	74	A	C4-C5-C6	7.02	120.51	117.00
1	N	176	C	C4-C5-C6	7.02	120.91	117.40
1	N	386	C	N3-C4-N4	7.02	122.91	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	731	G	C4'-C3'-C2'	-7.02	95.58	102.60
1	N	910	C	C2-N3-C4	-7.02	116.39	119.90
1	N	1291	U	C5-C6-N1	-7.02	119.19	122.70
1	N	1438	G	N1-C2-N3	-7.02	119.69	123.90
1	N	796	C	O4'-C1'-N1	7.01	113.81	108.20
1	N	1389	C	C4-C5-C6	-7.01	113.89	117.40
1	N	117	G	O4'-C1'-N9	7.01	113.81	108.20
1	N	277	C	O4'-C1'-N1	7.01	113.81	108.20
1	N	1058	G	O4'-C1'-N9	7.01	113.81	108.20
1	N	317	U	O4'-C1'-N1	7.01	113.81	108.20
1	N	770	C	C4'-C3'-C2'	-7.01	95.59	102.60
1	N	1414	U	C5-C4-O4	7.01	130.10	125.90
1	N	792	A	N7-C8-N9	-7.01	110.30	113.80
1	N	946	A	O4'-C1'-N9	7.01	113.81	108.20
1	N	849	G	C5-C6-O6	-7.00	124.40	128.60
1	N	267	C	P-O3'-C3'	7.00	128.10	119.70
1	N	491	G	N1-C2-N3	-7.00	119.70	123.90
1	N	1111	A	N9-C4-C5	7.00	108.60	105.80
1	N	1185	G	C2-N3-C4	7.00	115.40	111.90
1	N	99	C	P-O3'-C3'	7.00	128.10	119.70
1	N	220	G	O4'-C1'-N9	7.00	113.80	108.20
1	N	1353	G	N3-C2-N2	-7.00	115.00	119.90
1	N	1459	G	N1-C6-O6	7.00	124.10	119.90
1	N	1041	G	C2-N3-C4	-7.00	108.40	111.90
1	N	158	G	C8-N9-C4	-7.00	103.60	106.40
1	N	916	U	P-O3'-C3'	-7.00	111.30	119.70
1	N	1110	A	C5-C6-N6	-7.00	118.10	123.70
1	N	1458	G	C6-C5-N7	-7.00	126.20	130.40
1	N	219	U	N3-C2-O2	7.00	127.10	122.20
1	N	236	A	O4'-C1'-N9	7.00	113.80	108.20
1	N	847	G	O4'-C1'-N9	7.00	113.80	108.20
1	N	1049	U	O4'-C1'-N1	7.00	113.80	108.20
1	N	1394	A	N7-C8-N9	-7.00	110.30	113.80
1	N	1030	U	C2-N1-C1'	7.00	126.09	117.70
1	N	1379	G	N1-C2-N3	-7.00	119.70	123.90
1	N	191	G	N9-C4-C5	-6.99	102.60	105.40
1	N	926	G	C6-N1-C2	6.99	129.30	125.10
1	N	1486	G	N1-C2-N3	-6.99	119.70	123.90
1	N	1531	A	C6-N1-C2	6.99	122.80	118.60
1	N	773	G	N3-C2-N2	6.99	124.80	119.90
1	N	1069	C	C2-N3-C4	6.99	123.40	119.90
1	N	1431	A	C4'-C3'-C2'	-6.99	95.61	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1040	U	P-O3'-C3'	6.99	128.09	119.70
1	N	1097	C	C2-N1-C1'	6.99	126.49	118.80
1	N	520	A	C6-C5-N7	-6.99	127.41	132.30
1	N	72	A	C4-C5-N7	6.99	114.19	110.70
1	N	558	G	C4-C5-C6	6.99	122.99	118.80
1	N	1353	G	N1-C2-N2	6.99	122.49	116.20
1	N	1167	A	C4-C5-N7	-6.99	107.21	110.70
1	N	1189	U	N3-C4-O4	6.99	124.29	119.40
1	N	1214	C	C6-N1-C2	-6.99	117.51	120.30
1	N	1228	C	C4'-C3'-C2'	6.99	109.59	102.60
1	N	1366	C	C6-N1-C2	6.99	123.09	120.30
1	N	1023	U	C2-N1-C1'	6.98	126.08	117.70
1	N	1234	C	C5-C4-N4	-6.98	115.31	120.20
1	N	1395	C	N3-C2-O2	6.98	126.79	121.90
1	N	656	G	N1-C2-N3	-6.98	119.71	123.90
1	N	742	G	C4-C5-N7	6.98	113.59	110.80
1	N	755	G	C5'-C4'-C3'	-6.98	104.83	116.00
1	N	872	A	C6-N1-C2	6.98	122.79	118.60
1	N	1244	G	O4'-C1'-N9	6.98	113.79	108.20
1	N	1475	G	N1-C2-N3	-6.98	119.71	123.90
1	N	188	C	N3-C4-N4	6.98	122.89	118.00
1	N	768	A	C6-N1-C2	6.98	122.79	118.60
1	N	964	A	C4-C5-N7	-6.98	107.21	110.70
1	N	1145	A	C4-C5-N7	-6.98	107.21	110.70
1	N	1172	C	C2'-C3'-O3'	6.98	124.87	113.70
1	N	443	C	O4'-C1'-N1	6.98	113.78	108.20
1	N	733	G	C1'-O4'-C4'	-6.98	104.32	109.90
1	N	979	C	O5'-P-OP2	-6.98	99.42	105.70
1	N	1130	A	C4-C5-C6	6.98	120.49	117.00
1	N	1242	G	P-O3'-C3'	-6.98	111.33	119.70
1	N	285	C	P-O3'-C3'	6.97	128.07	119.70
1	N	490	C	C3'-C2'-C1'	-6.97	95.92	101.50
1	N	761	G	N3-C4-N9	-6.97	121.82	126.00
1	N	1365	G	N3-C4-N9	6.97	130.18	126.00
1	N	152	A	C8-N9-C4	-6.97	103.01	105.80
1	N	978	A	C5-C6-N6	-6.97	118.12	123.70
1	N	199	A	C6-N1-C2	6.97	122.78	118.60
1	N	449	G	N7-C8-N9	6.97	116.58	113.10
1	N	179	A	C5'-C4'-O4'	6.97	117.46	109.10
1	N	412	A	O4'-C1'-N9	6.97	113.77	108.20
1	N	573	A	C4'-C3'-C2'	-6.97	95.63	102.60
1	N	341	C	P-O5'-C5'	6.97	132.05	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	772	U	C5-C6-N1	6.97	126.18	122.70
1	N	304	U	N3-C4-O4	6.96	124.28	119.40
1	N	922	G	N7-C8-N9	-6.96	109.62	113.10
1	N	1435	G	C5-C6-O6	-6.96	124.42	128.60
1	N	267	C	C3'-C2'-C1'	6.96	107.07	101.50
1	N	663	A	C4-C5-N7	-6.96	107.22	110.70
1	N	704	A	C4-C5-N7	-6.96	107.22	110.70
1	N	1174	G	C5-N7-C8	-6.96	100.82	104.30
1	N	250	A	C5-C6-N6	-6.96	118.13	123.70
1	N	732	C	O4'-C1'-N1	6.96	113.77	108.20
1	N	1096	C	N3-C4-C5	-6.96	119.12	121.90
1	N	1241	G	C2-N3-C4	-6.96	108.42	111.90
1	N	609	A	N7-C8-N9	-6.96	110.32	113.80
1	N	637	C	C2-N1-C1'	6.96	126.45	118.80
1	N	681	A	C2-N3-C4	-6.96	107.12	110.60
1	N	1493	A	C4-C5-N7	-6.96	107.22	110.70
1	N	181	A	N1-C2-N3	-6.96	125.82	129.30
1	N	361	G	C8-N9-C4	-6.96	103.62	106.40
1	N	497	G	C5-N7-C8	6.96	107.78	104.30
1	N	1485	U	P-O5'-C5'	6.96	132.03	120.90
1	N	907	A	C5-C6-N1	-6.96	114.22	117.70
1	N	1050	G	C6-N1-C2	6.96	129.27	125.10
1	N	463	U	C5-C6-N1	6.95	126.18	122.70
1	N	505	G	C4-C5-C6	6.95	122.97	118.80
1	N	690	G	O4'-C1'-N9	6.95	113.76	108.20
1	N	715	A	C5-C6-N6	-6.95	118.14	123.70
1	N	738	C	N1-C2-O2	-6.95	114.73	118.90
1	N	723	U	C6-N1-C1'	-6.95	111.47	121.20
1	N	1085	U	N3-C4-C5	-6.95	110.43	114.60
1	N	79	G	P-O3'-C3'	6.95	128.04	119.70
1	N	88	U	P-O3'-C3'	6.95	128.04	119.70
1	N	1261	A	C6-N1-C2	-6.95	114.43	118.60
1	N	1347	G	C5-C6-O6	-6.95	124.43	128.60
1	N	1475	G	N1-C6-O6	6.95	124.07	119.90
1	N	1492	A	C4-C5-C6	6.95	120.47	117.00
1	N	1195	C	O4'-C1'-N1	6.95	113.76	108.20
1	N	1511	G	C5-C6-O6	-6.95	124.43	128.60
1	N	1303	C	O4'-C1'-N1	6.95	113.76	108.20
1	N	407	U	P-O5'-C5'	6.95	132.01	120.90
1	N	524	G	N3-C4-C5	-6.95	125.13	128.60
1	N	1018	G	N9-C4-C5	-6.95	102.62	105.40
1	N	1471	U	C2-N3-C4	6.95	131.17	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1517	G	N1-C6-O6	6.95	124.07	119.90
1	N	56	U	O4'-C1'-N1	6.94	113.75	108.20
1	N	301	G	N7-C8-N9	6.94	116.57	113.10
1	N	462	G	C6-N1-C2	6.94	129.27	125.10
1	N	859	G	O5'-C5'-C4'	-6.94	98.51	111.70
1	N	1005	A	P-O3'-C3'	6.94	128.03	119.70
1	N	1405	G	N1-C6-O6	6.94	124.06	119.90
1	N	575	G	C5-C6-O6	-6.94	124.44	128.60
1	N	871	U	C1'-O4'-C4'	6.94	115.45	109.90
1	N	911	U	N1-C2-N3	6.94	119.06	114.90
1	N	914	A	O4'-C1'-N9	6.94	113.75	108.20
1	N	1023	U	O4'-C1'-N1	6.94	113.75	108.20
1	N	310	G	N9-C4-C5	-6.94	102.62	105.40
1	N	515	G	N3-C4-C5	-6.94	125.13	128.60
1	N	522	C	C6-N1-C2	-6.94	117.53	120.30
1	N	621	A	C2-N3-C4	-6.94	107.13	110.60
1	N	1217	C	C4-C5-C6	-6.94	113.93	117.40
1	N	1225	A	C8-N9-C4	-6.94	103.03	105.80
1	N	1251	A	O4'-C1'-N9	6.94	113.75	108.20
1	N	1298	U	O4'-C1'-N1	-6.93	102.66	108.20
1	N	153	C	C5-C4-N4	-6.93	115.35	120.20
1	N	291	U	N3-C2-O2	6.93	127.05	122.20
1	N	638	U	N1-C2-O2	-6.93	117.95	122.80
1	N	1416	G	N1-C6-O6	6.93	124.06	119.90
1	N	1155	A	O4'-C1'-N9	6.93	113.74	108.20
1	N	1187	G	C4-N9-C1'	6.93	135.50	126.50
1	N	1250	A	N7-C8-N9	-6.93	110.34	113.80
1	N	1283	U	P-O3'-C3'	-6.93	111.39	119.70
1	N	393	A	C2-N3-C4	6.92	114.06	110.60
1	N	1291	U	N1-C2-N3	-6.92	110.75	114.90
1	N	1511	G	C1'-O4'-C4'	6.92	115.44	109.90
1	N	215	C	N1-C2-N3	-6.92	114.36	119.20
1	N	553	A	O4'-C1'-N9	6.92	113.74	108.20
1	N	1035	A	O4'-C1'-N9	6.92	113.74	108.20
1	N	164	G	O4'-C1'-N9	6.92	113.73	108.20
1	N	464	U	O4'-C1'-N1	6.92	113.73	108.20
1	N	787	A	O4'-C1'-N9	6.92	113.74	108.20
1	N	1233	G	C4-C5-C6	6.92	122.95	118.80
1	N	374	A	O4'-C1'-N9	6.92	113.73	108.20
1	N	603	U	N3-C4-O4	6.92	124.24	119.40
1	N	102	G	C5-N7-C8	6.92	107.76	104.30
1	N	851	G	C6-C5-N7	-6.92	126.25	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	906	A	C5-C6-N1	-6.92	114.24	117.70
1	N	983	A	N1-C6-N6	6.92	122.75	118.60
1	N	1007	U	P-O5'-C5'	6.92	131.96	120.90
1	N	415	A	C5'-C4'-C3'	-6.91	104.94	116.00
1	N	1454	G	C6-C5-N7	-6.91	126.25	130.40
1	N	1278	G	C8-N9-C4	-6.91	103.64	106.40
1	N	131	A	C4-C5-C6	6.91	120.45	117.00
1	N	673	A	N1-C2-N3	6.91	132.75	129.30
1	N	808	C	C1'-O4'-C4'	6.91	115.43	109.90
1	N	896	C	C5-C6-N1	-6.91	117.55	121.00
1	N	1249	C	C1'-O4'-C4'	6.91	115.43	109.90
1	N	1382	C	P-O3'-C3'	6.91	127.99	119.70
1	N	8	A	N7-C8-N9	-6.91	110.35	113.80
1	N	25	C	O4'-C1'-N1	6.91	113.72	108.20
1	N	294	U	C5-C6-N1	6.91	126.15	122.70
1	N	411	A	O4'-C1'-N9	6.91	113.72	108.20
1	N	508	U	C1'-O4'-C4'	6.91	115.42	109.90
1	N	1042	A	N9-C4-C5	-6.91	103.04	105.80
1	N	1281	C	P-O5'-C5'	6.91	131.95	120.90
1	N	336	A	C8-N9-C4	-6.90	103.04	105.80
1	N	424	G	P-O5'-C5'	6.90	131.95	120.90
1	N	869	G	N3-C4-N9	-6.90	121.86	126.00
1	N	1393	U	C2-N1-C1'	6.90	125.98	117.70
1	N	1400	C	N3-C4-C5	-6.90	119.14	121.90
1	N	164	G	N3-C2-N2	6.90	124.73	119.90
1	N	203	G	N1-C6-O6	6.90	124.04	119.90
1	N	472	U	N3-C4-O4	6.90	124.23	119.40
1	N	1447	A	N7-C8-N9	6.90	117.25	113.80
1	N	1509	C	C2-N1-C1'	6.90	126.39	118.80
1	N	253	A	O4'-C1'-N9	6.90	113.72	108.20
1	N	496	A	C5-C6-N6	-6.90	118.18	123.70
1	N	1389	C	C4'-C3'-C2'	-6.90	95.70	102.60
1	N	539	A	C6-N1-C2	6.90	122.74	118.60
1	N	422	C	P-O3'-C3'	6.89	127.97	119.70
1	N	1068	G	O4'-C1'-N9	6.89	113.72	108.20
1	N	1270	G	O4'-C1'-N9	6.89	113.72	108.20
1	N	349	A	C5-N7-C8	6.89	107.35	103.90
1	N	1263	C	C6-N1-C2	-6.89	117.54	120.30
1	N	1479	C	C5-C6-N1	6.89	124.45	121.00
1	N	1412	C	C5-C6-N1	6.89	124.44	121.00
1	N	350	G	N1-C2-N3	-6.89	119.77	123.90
1	N	1029	U	C4-C5-C6	-6.89	115.57	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1312	G	N1-C2-N2	-6.89	110.00	116.20
1	N	1319	A	C4-C5-C6	6.89	120.44	117.00
1	N	1375	A	C5-N7-C8	6.89	107.34	103.90
1	N	1068	G	C4-C5-N7	-6.89	108.05	110.80
1	N	1459	G	O5'-P-OP1	-6.89	99.50	105.70
1	N	588	G	C4-C5-N7	-6.88	108.05	110.80
1	N	1163	A	C4-C5-C6	6.88	120.44	117.00
1	N	962	C	O4'-C1'-N1	6.88	113.71	108.20
1	N	35	G	C2-N3-C4	-6.88	108.46	111.90
1	N	294	U	C5-C4-O4	-6.88	121.77	125.90
1	N	329	A	C1'-O4'-C4'	6.88	115.41	109.90
1	N	581	G	P-O3'-C3'	-6.88	111.44	119.70
1	N	848	C	O4'-C1'-N1	6.88	113.70	108.20
1	N	951	G	P-O3'-C3'	-6.88	111.44	119.70
1	N	1464	U	C5-C6-N1	-6.88	119.26	122.70
1	N	139	A	C2-N3-C4	-6.88	107.16	110.60
1	N	945	G	C6-C5-N7	-6.88	126.27	130.40
1	N	350	G	N9-C4-C5	-6.88	102.65	105.40
1	N	440	C	C4-C5-C6	6.88	120.84	117.40
1	N	577	G	C8-N9-C4	-6.88	103.65	106.40
1	N	1332	A	C6-C5-N7	-6.88	127.48	132.30
1	N	76	G	C5'-C4'-C3'	-6.88	105.00	116.00
1	N	496	A	P-O5'-C5'	6.88	131.90	120.90
1	N	1117	A	O4'-C1'-N9	6.88	113.70	108.20
1	N	1134	G	N1-C2-N3	-6.88	119.77	123.90
1	N	204	G	N9-C4-C5	-6.88	102.65	105.40
1	N	374	A	C1'-O4'-C4'	6.88	115.40	109.90
1	N	581	G	C4'-C3'-C2'	-6.88	95.72	102.60
1	N	727	G	O4'-C1'-N9	6.88	113.70	108.20
1	N	858	G	C8-N9-C4	-6.88	103.65	106.40
1	N	669	G	N3-C2-N2	6.87	124.71	119.90
1	N	713	G	C4-C5-N7	-6.87	108.05	110.80
1	N	1013	G	N1-C6-O6	6.87	124.02	119.90
1	N	1048	G	N1-C2-N2	-6.87	110.02	116.20
1	N	1174	G	C5'-C4'-O4'	6.87	117.34	109.10
1	N	1374	A	N1-C6-N6	6.87	122.72	118.60
1	N	206	C	O4'-C1'-N1	6.87	113.70	108.20
1	N	1260	G	C5-C6-O6	-6.87	124.48	128.60
1	N	658	C	C5-C6-N1	6.87	124.43	121.00
1	N	831	A	C8-N9-C4	-6.87	103.05	105.80
1	N	899	C	O4'-C1'-N1	6.87	113.69	108.20
1	N	1347	G	P-O3'-C3'	6.87	127.94	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	78	A	C4-C5-N7	-6.87	107.27	110.70
1	N	189	A	C5-C6-N1	-6.87	114.27	117.70
1	N	289	G	N1-C2-N3	-6.87	119.78	123.90
1	N	732	C	C4-C5-C6	6.87	120.83	117.40
1	N	185	U	P-O5'-C5'	6.86	131.88	120.90
1	N	309	A	N7-C8-N9	6.86	117.23	113.80
1	N	435	A	P-O5'-C5'	6.86	131.88	120.90
1	N	835	U	N3-C4-O4	6.86	124.20	119.40
1	N	1440	U	N3-C2-O2	-6.86	117.40	122.20
1	N	1474	U	C6-N1-C2	-6.86	116.88	121.00
1	N	1269	A	N7-C8-N9	6.86	117.23	113.80
1	N	1280	A	C6-C5-N7	-6.86	127.50	132.30
1	N	439	U	N1-C2-O2	-6.86	118.00	122.80
1	N	1061	G	N3-C4-C5	-6.86	125.17	128.60
1	N	1085	U	N3-C2-O2	6.86	127.00	122.20
1	N	260	G	C6-C5-N7	-6.86	126.29	130.40
1	N	755	G	C8-N9-C4	6.86	109.14	106.40
1	N	1114	C	N3-C4-C5	-6.86	119.16	121.90
1	N	1118	U	C5'-C4'-O4'	-6.86	100.87	109.10
1	N	1344	C	C6-N1-C2	-6.86	117.56	120.30
1	N	174	A	C5-C6-N6	-6.85	118.22	123.70
1	N	1086	U	O4'-C1'-N1	6.85	113.68	108.20
1	N	1088	G	O4'-C1'-N9	6.85	113.68	108.20
1	N	108	G	C4-C5-C6	6.85	122.91	118.80
1	N	380	G	O4'-C1'-N9	6.85	113.68	108.20
1	N	433	G	N7-C8-N9	6.85	116.53	113.10
1	N	289	G	C8-N9-C4	-6.85	103.66	106.40
1	N	630	A	C6-C5-N7	-6.85	127.50	132.30
1	N	576	C	O4'-C1'-N1	6.85	113.68	108.20
1	N	615	G	N1-C2-N3	-6.85	119.79	123.90
1	N	1176	A	C5'-C4'-C3'	6.85	126.96	116.00
1	N	1333	A	N1-C6-N6	6.85	122.71	118.60
1	N	1450	U	P-O3'-C3'	6.85	127.92	119.70
1	N	88	U	N3-C4-O4	6.85	124.19	119.40
1	N	248	C	C5-C6-N1	6.85	124.42	121.00
1	N	259	G	N9-C4-C5	-6.85	102.66	105.40
1	N	413	G	C5-N7-C8	-6.85	100.88	104.30
1	N	1199	U	C5-C4-O4	-6.85	121.79	125.90
1	N	477	C	N1-C2-O2	-6.84	114.79	118.90
1	N	1221	G	N3-C2-N2	6.84	124.69	119.90
1	N	143	A	O4'-C1'-N9	6.84	113.67	108.20
1	N	337	G	C5'-C4'-C3'	6.84	126.95	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	505	G	C5-C6-N1	-6.84	108.08	111.50
1	N	775	G	N3-C2-N2	-6.84	115.11	119.90
1	N	862	C	N1-C2-O2	-6.84	114.80	118.90
1	N	1361	G	N9-C1'-C2'	-6.84	104.47	112.00
1	N	1449	C	N1-C2-O2	-6.84	114.80	118.90
1	N	1453	G	O4'-C1'-N9	6.84	113.67	108.20
1	N	388	G	N9-C4-C5	-6.84	102.66	105.40
1	N	1026	G	N3-C2-N2	6.84	124.69	119.90
1	N	1418	A	C5-C6-N6	-6.84	118.23	123.70
1	N	41	G	C4'-C3'-C2'	-6.84	95.76	102.60
1	N	561	U	C5'-C4'-O4'	6.84	117.31	109.10
1	N	740	U	O4'-C1'-N1	6.84	113.67	108.20
1	N	1033	G	N3-C4-C5	-6.84	125.18	128.60
1	N	1046	A	C6-C5-N7	-6.84	127.51	132.30
1	N	1533	C	O4'-C1'-C2'	-6.84	98.96	105.80
1	N	78	A	N9-C4-C5	6.83	108.53	105.80
1	N	1401	G	N1-C2-N2	-6.83	110.05	116.20
1	N	447	G	N1-C6-O6	6.83	124.00	119.90
1	N	1332	A	C8-N9-C4	-6.83	103.07	105.80
1	N	140	U	O4'-C1'-N1	6.83	113.67	108.20
1	N	881	G	N1-C6-O6	6.83	124.00	119.90
1	N	1042	A	N7-C8-N9	-6.83	110.39	113.80
1	N	271	C	N3-C4-C5	-6.83	119.17	121.90
1	N	1005	A	C6-N1-C2	6.83	122.70	118.60
1	N	305	G	N7-C8-N9	-6.83	109.69	113.10
1	N	328	C	N3-C4-C5	-6.83	119.17	121.90
1	N	545	C	C2-N3-C4	6.83	123.31	119.90
1	N	575	G	C4-N9-C1'	-6.83	117.62	126.50
1	N	1191	A	C4-C5-C6	6.83	120.41	117.00
1	N	1314	C	O4'-C1'-N1	6.83	113.66	108.20
1	N	148	G	C6-N1-C2	6.83	129.20	125.10
1	N	842	U	P-O3'-C3'	6.83	127.89	119.70
1	N	170	U	C6-N1-C2	-6.83	116.91	121.00
1	N	247	G	O5'-P-OP2	-6.83	99.56	105.70
1	N	695	A	C5-N7-C8	6.83	107.31	103.90
1	N	808	C	C6-N1-C1'	-6.83	112.61	120.80
1	N	1072	G	N1-C2-N3	-6.83	119.81	123.90
1	N	147	G	C6-C5-N7	-6.82	126.31	130.40
1	N	428	G	C5-N7-C8	6.82	107.71	104.30
1	N	730	G	C5-C6-N1	-6.82	108.09	111.50
1	N	773	G	C6-N1-C2	6.82	129.19	125.10
1	N	1415	G	C5-C6-O6	-6.82	124.51	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1516	G	N1-C6-O6	6.82	123.99	119.90
1	N	1206	G	N1-C2-N3	-6.82	119.81	123.90
1	N	722	G	N3-C4-N9	6.82	130.09	126.00
1	N	770	C	C5'-C4'-C3'	6.82	126.91	116.00
1	N	856	C	N3-C4-N4	6.82	122.77	118.00
1	N	1358	U	O4'-C1'-N1	6.82	113.66	108.20
1	N	1470	U	C6-N1-C2	-6.82	116.91	121.00
1	N	242	G	N9-C4-C5	-6.82	102.67	105.40
1	N	708	C	C5-C4-N4	-6.82	115.43	120.20
1	N	1119	C	C5-C4-N4	-6.81	115.43	120.20
1	N	1403	C	N3-C4-N4	6.81	122.77	118.00
1	N	250	A	C5-N7-C8	6.81	107.31	103.90
1	N	293	G	N1-C2-N3	-6.81	119.81	123.90
1	N	1097	C	C4-C5-C6	6.81	120.81	117.40
1	N	1274	A	C5-N7-C8	6.81	107.31	103.90
1	N	426	U	O5'-C5'-C4'	-6.81	98.76	111.70
1	N	826	C	N3-C4-C5	-6.81	119.18	121.90
1	N	802	A	C5-N7-C8	6.81	107.31	103.90
1	N	14	U	C5-C4-O4	-6.81	121.81	125.90
1	N	135	C	C3'-C2'-C1'	6.81	106.95	101.50
1	N	284	C	P-O5'-C5'	6.81	131.79	120.90
1	N	680	C	C5'-C4'-C3'	6.81	126.89	116.00
1	N	1492	A	P-O5'-C5'	6.81	131.79	120.90
1	N	223	A	N1-C2-N3	-6.80	125.90	129.30
1	N	869	G	N9-C4-C5	6.80	108.12	105.40
1	N	1172	C	C5-C6-N1	6.80	124.40	121.00
1	N	1124	G	C8-N9-C1'	6.80	135.84	127.00
1	N	1168	U	C1'-O4'-C4'	-6.80	104.46	109.90
1	N	1236	A	C5-C6-N1	-6.80	114.30	117.70
1	N	28	A	C5-C6-N1	-6.80	114.30	117.70
1	N	117	G	C4-C5-C6	6.80	122.88	118.80
1	N	1063	C	P-O5'-C5'	6.80	131.78	120.90
1	N	934	C	C3'-C2'-C1'	6.80	106.94	101.50
1	N	1232	U	O4'-C1'-N1	6.80	113.64	108.20
1	N	1428	A	C5-C6-N1	-6.80	114.30	117.70
1	N	1449	C	N3-C4-N4	6.80	122.76	118.00
1	N	486	U	O4'-C1'-C2'	-6.79	99.00	105.80
1	N	22	G	C6-N1-C2	6.79	129.18	125.10
1	N	874	G	C5'-C4'-O4'	-6.79	100.95	109.10
1	N	887	G	C6-N1-C2	6.79	129.18	125.10
1	N	393	A	N1-C2-N3	-6.79	125.90	129.30
1	N	575	G	C8-N9-C1'	6.79	135.83	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1103	C	C4-C5-C6	6.79	120.80	117.40
1	N	377	G	C5-C6-O6	-6.79	124.53	128.60
1	N	123	U	P-O3'-C3'	6.79	127.84	119.70
1	N	656	G	C8-N9-C1'	-6.79	118.18	127.00
1	N	970	C	O4'-C1'-N1	6.79	113.63	108.20
1	N	1249	C	C6-N1-C2	6.79	123.02	120.30
1	N	1181	G	N1-C2-N2	6.79	122.31	116.20
1	N	1383	C	N3-C4-N4	6.79	122.75	118.00
1	N	1448	C	P-O5'-C5'	-6.79	110.04	120.90
1	N	110	C	C4-C5-C6	6.78	120.79	117.40
1	N	1247	U	C2-N3-C4	-6.78	122.93	127.00
1	N	1271	A	N3-C4-C5	-6.78	122.05	126.80
1	N	135	C	C5-C4-N4	-6.78	115.45	120.20
1	N	685	G	N3-C2-N2	6.78	124.65	119.90
1	N	1107	C	C4-C5-C6	6.78	120.79	117.40
1	N	1227	A	C5'-C4'-O4'	6.78	117.24	109.10
1	N	1343	G	P-O3'-C3'	-6.78	111.56	119.70
1	N	170	U	C4-C5-C6	6.78	123.77	119.70
1	N	951	G	N3-C2-N2	6.78	124.64	119.90
1	N	1125	U	C5'-C4'-C3'	-6.78	105.16	116.00
1	N	859	G	N1-C6-O6	6.78	123.97	119.90
1	N	874	G	C8-N9-C4	-6.78	103.69	106.40
1	N	878	A	C5-N7-C8	6.78	107.29	103.90
1	N	529	G	O4'-C1'-N9	6.77	113.62	108.20
1	N	718	A	C5'-C4'-C3'	-6.77	105.16	116.00
1	N	77	A	P-O3'-C3'	6.77	127.83	119.70
1	N	812	G	C8-N9-C4	-6.77	103.69	106.40
1	N	819	A	O4'-C1'-N9	6.77	113.62	108.20
1	N	1013	G	C4-C5-N7	-6.77	108.09	110.80
1	N	1193	G	P-O5'-C5'	-6.77	110.06	120.90
1	N	1462	C	N3-C4-C5	-6.77	119.19	121.90
1	N	892	A	O4'-C1'-N9	6.77	113.62	108.20
1	N	12	U	C2-N3-C4	6.77	131.06	127.00
1	N	46	G	C5-C6-N1	-6.77	108.11	111.50
1	N	208	U	C3'-C2'-C1'	6.77	106.92	101.50
1	N	287	U	OP1-P-OP2	-6.77	109.44	119.60
1	N	972	C	N3-C4-C5	-6.77	119.19	121.90
1	N	1143	G	C4-C5-N7	6.77	113.51	110.80
1	N	1488	G	C6-C5-N7	-6.77	126.34	130.40
1	N	1140	C	C4'-C3'-C2'	-6.77	95.83	102.60
1	N	1325	C	C6-N1-C2	6.76	123.01	120.30
1	N	280	C	C2-N1-C1'	6.76	126.24	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	878	A	O4'-C1'-N9	6.76	113.61	108.20
1	N	980	C	N1-C2-O2	6.76	122.96	118.90
1	N	212	G	C5-N7-C8	6.76	107.68	104.30
1	N	971	G	C5-C6-O6	-6.76	124.54	128.60
1	N	1291	U	C5-C4-O4	-6.76	121.84	125.90
1	N	1348	U	C2-N3-C4	-6.76	122.94	127.00
1	N	1425	U	C5-C6-N1	6.76	126.08	122.70
1	N	1427	C	N1-C2-O2	-6.76	114.84	118.90
1	N	1434	A	O4'-C1'-N9	6.76	113.61	108.20
1	N	382	A	C5-C6-N1	-6.76	114.32	117.70
1	N	936	C	N3-C4-C5	-6.76	119.20	121.90
1	N	1227	A	C3'-C2'-C1'	-6.76	96.09	101.50
1	N	874	G	C5-C6-O6	-6.75	124.55	128.60
1	N	1046	A	C8-N9-C4	-6.75	103.10	105.80
1	N	164	G	P-O3'-C3'	-6.75	111.60	119.70
1	N	255	G	N3-C4-C5	-6.75	125.22	128.60
1	N	1043	G	N3-C2-N2	6.75	124.63	119.90
1	N	1158	C	C3'-C2'-C1'	6.75	106.90	101.50
1	N	1395	C	P-O5'-C5'	-6.75	110.10	120.90
1	N	1409	C	C2-N1-C1'	6.75	126.23	118.80
1	N	82	G	N7-C8-N9	6.75	116.47	113.10
1	N	162	A	C2-N3-C4	-6.75	107.22	110.60
1	N	710	G	N9-C4-C5	-6.75	102.70	105.40
1	N	1160	G	C4'-C3'-C2'	6.75	109.35	102.60
1	N	307	C	O4'-C1'-N1	6.75	113.60	108.20
1	N	647	C	O4'-C1'-N1	6.75	113.60	108.20
1	N	1268	G	C4-C5-C6	6.75	122.85	118.80
1	N	1299	A	C5-N7-C8	6.75	107.27	103.90
1	N	1493	A	C8-N9-C4	-6.75	103.10	105.80
1	N	1501	C	O4'-C1'-N1	6.75	113.60	108.20
1	N	148	G	C4-N9-C1'	6.75	135.27	126.50
1	N	1057	G	C5-C6-O6	-6.75	124.55	128.60
1	N	1415	G	C4-C5-C6	6.75	122.85	118.80
1	N	996	A	N3-C4-C5	-6.75	122.08	126.80
1	N	1186	G	C6-N1-C2	6.75	129.15	125.10
1	N	1478	U	N1-C2-N3	-6.75	110.85	114.90
1	N	629	A	O4'-C1'-N9	6.74	113.59	108.20
1	N	644	U	N3-C4-O4	6.74	124.12	119.40
1	N	1322	C	C2-N3-C4	6.74	123.27	119.90
1	N	201	G	C5-C6-N1	-6.74	108.13	111.50
1	N	282	A	O4'-C1'-N9	6.74	113.59	108.20
1	N	380	G	C4-C5-N7	-6.74	108.10	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1151	A	C5-N7-C8	6.74	107.27	103.90
1	N	1153	G	C2-N3-C4	6.74	115.27	111.90
1	N	35	G	C5-C6-N1	-6.74	108.13	111.50
1	N	85	U	C6-N1-C1'	-6.74	111.76	121.20
1	N	183	C	P-O3'-C3'	6.74	127.79	119.70
1	N	392	C	C4-C5-C6	6.74	120.77	117.40
1	N	475	C	P-O3'-C3'	6.74	127.79	119.70
1	N	503	C	N1-C2-O2	6.74	122.94	118.90
1	N	545	C	O4'-C1'-N1	6.74	113.59	108.20
1	N	886	G	C5-C6-N1	-6.74	108.13	111.50
1	N	1356	G	C6-N1-C2	6.74	129.14	125.10
1	N	538	G	C4'-C3'-C2'	-6.74	95.86	102.60
1	N	1146	A	N7-C8-N9	6.74	117.17	113.80
1	N	1399	C	O4'-C1'-N1	6.74	113.59	108.20
1	N	1405	G	C8-N9-C4	6.74	109.09	106.40
1	N	650	G	C2-N3-C4	6.73	115.27	111.90
1	N	133	U	N3-C4-O4	6.73	124.11	119.40
1	N	1509	C	C5-C6-N1	6.73	124.37	121.00
1	N	1493	A	N3-C4-C5	-6.73	122.09	126.80
1	N	1416	G	C6-C5-N7	-6.73	126.36	130.40
1	N	120	A	C8-N9-C1'	6.73	139.81	127.70
1	N	693	G	P-O3'-C3'	6.73	127.77	119.70
1	N	838	G	C6-C5-N7	-6.73	126.36	130.40
1	N	904	U	C6-N1-C2	-6.73	116.96	121.00
1	N	989	U	O4'-C1'-N1	6.73	113.58	108.20
1	N	1057	G	C5-N7-C8	6.73	107.66	104.30
1	N	447	G	N9-C4-C5	-6.73	102.71	105.40
1	N	1041	G	C5-C6-O6	-6.73	124.56	128.60
1	N	1188	A	N1-C6-N6	6.73	122.64	118.60
1	N	889	A	C5-N7-C8	6.72	107.26	103.90
1	N	930	C	C1'-O4'-C4'	6.72	115.28	109.90
1	N	1338	G	C6-N1-C2	6.72	129.13	125.10
1	N	1473	G	C6-C5-N7	-6.72	126.36	130.40
1	N	1482	G	C8-N9-C4	-6.72	103.71	106.40
1	N	221	C	C5-C6-N1	6.72	124.36	121.00
1	N	353	A	C8-N9-C4	6.72	108.49	105.80
1	N	1201	A	C6-C5-N7	-6.72	127.59	132.30
1	N	53	A	P-O5'-C5'	6.72	131.65	120.90
1	N	788	U	C3'-C2'-C1'	6.72	106.88	101.50
1	N	7	A	C5-N7-C8	6.72	107.26	103.90
1	N	224	U	P-O3'-C3'	-6.72	111.64	119.70
1	N	415	A	N1-C6-N6	6.72	122.63	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	582	C	C1'-O4'-C4'	6.72	115.28	109.90
1	N	717	U	O5'-C5'-C4'	-6.72	98.93	111.70
1	N	838	G	C4-C5-C6	6.72	122.83	118.80
1	N	885	G	C5-C6-N1	-6.72	108.14	111.50
1	N	1317	C	N3-C4-C5	-6.72	119.21	121.90
1	N	227	G	P-O3'-C3'	-6.72	111.64	119.70
1	N	544	G	C2-N3-C4	-6.72	108.54	111.90
1	N	640	A	O4'-C1'-N9	6.72	113.57	108.20
1	N	115	G	C3'-C2'-C1'	6.72	106.87	101.50
1	N	316	C	N3-C4-N4	6.72	122.70	118.00
1	N	339	C	O4'-C1'-N1	6.72	113.57	108.20
1	N	502	A	C6-C5-N7	-6.72	127.60	132.30
1	N	46	G	P-O3'-C3'	6.71	127.76	119.70
1	N	456	A	O4'-C1'-N9	6.71	113.57	108.20
1	N	773	G	C5-C6-N1	-6.71	108.14	111.50
1	N	927	G	N3-C4-C5	6.71	131.96	128.60
1	N	1497	G	C5-C6-N1	-6.71	108.14	111.50
1	N	155	A	N1-C2-N3	-6.71	125.94	129.30
1	N	783	C	C4-C5-C6	-6.71	114.05	117.40
1	N	52	C	C6-N1-C2	-6.71	117.62	120.30
1	N	90	C	N3-C4-N4	6.71	122.70	118.00
1	N	314	C	P-O5'-C5'	6.71	131.64	120.90
1	N	1520	C	N3-C4-N4	6.71	122.70	118.00
1	N	362	G	N3-C4-N9	6.71	130.03	126.00
1	N	485	U	P-O3'-C3'	6.71	127.75	119.70
1	N	719	C	C5-C6-N1	6.71	124.35	121.00
1	N	917	G	P-O3'-C3'	-6.71	111.65	119.70
1	N	1356	G	C5-C6-N1	-6.71	108.14	111.50
1	N	1497	G	N9-C4-C5	6.71	108.08	105.40
1	N	1271	A	C4-C5-N7	-6.71	107.35	110.70
1	N	1359	C	P-O5'-C5'	-6.71	110.17	120.90
1	N	682	G	N7-C8-N9	6.71	116.45	113.10
1	N	1341	U	C4-C5-C6	-6.71	115.68	119.70
1	N	648	A	C5-N7-C8	6.70	107.25	103.90
1	N	1042	A	P-O5'-C5'	6.70	131.62	120.90
1	N	168	G	N7-C8-N9	-6.70	109.75	113.10
1	N	691	G	C4-C5-N7	6.70	113.48	110.80
1	N	1357	A	C1'-O4'-C4'	6.70	115.26	109.90
1	N	50	A	C3'-C2'-C1'	-6.70	96.14	101.50
1	N	561	U	O4'-C1'-N1	6.70	113.56	108.20
1	N	918	A	C5-C6-N6	-6.70	118.34	123.70
1	N	1053	G	N1-C2-N2	6.70	122.23	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1509	C	O4'-C1'-N1	6.70	113.56	108.20
1	N	1526	G	C4-C5-C6	6.70	122.82	118.80
1	N	312	C	C4-C5-C6	6.70	120.75	117.40
1	N	963	G	C8-N9-C4	-6.70	103.72	106.40
1	N	1209	C	P-O5'-C5'	6.70	131.62	120.90
1	N	538	G	N9-C4-C5	-6.70	102.72	105.40
1	N	935	A	P-O5'-C5'	-6.70	110.19	120.90
1	N	733	G	N1-C2-N3	-6.70	119.88	123.90
1	N	949	A	C5-C6-N6	-6.70	118.34	123.70
1	N	1099	G	N3-C4-C5	-6.70	125.25	128.60
1	N	94	G	C2-N3-C4	6.69	115.25	111.90
1	N	203	G	C2-N3-C4	6.69	115.25	111.90
1	N	453	G	C4-C5-C6	6.69	122.81	118.80
1	N	456	A	N1-C2-N3	6.69	132.65	129.30
1	N	722	G	N1-C2-N3	-6.69	119.88	123.90
1	N	1407	C	C2-N3-C4	6.69	123.25	119.90
1	N	257	G	O4'-C1'-N9	6.69	113.55	108.20
1	N	754	C	N3-C4-C5	-6.69	119.22	121.90
1	N	910	C	O4'-C1'-N1	6.69	113.55	108.20
1	N	1273	C	C6-N1-C2	6.69	122.98	120.30
1	N	1463	U	C2-N3-C4	-6.69	122.98	127.00
1	N	133	U	O4'-C1'-N1	6.69	113.55	108.20
1	N	352	C	C1'-O4'-C4'	-6.69	104.55	109.90
1	N	360	G	N1-C2-N3	-6.69	119.89	123.90
1	N	367	U	C5-C4-O4	-6.69	121.89	125.90
1	N	42	G	C5-N7-C8	6.69	107.64	104.30
1	N	762	U	P-O5'-C5'	6.69	131.60	120.90
1	N	462	G	O4'-C1'-N9	6.68	113.55	108.20
1	N	686	U	C5-C6-N1	6.68	126.04	122.70
1	N	938	A	P-O5'-C5'	6.68	131.59	120.90
1	N	1396	A	P-O3'-C3'	6.68	127.72	119.70
1	N	606	G	P-O5'-C5'	-6.68	110.21	120.90
1	N	939	G	P-O5'-C5'	-6.68	110.21	120.90
1	N	135	C	C2-N3-C4	-6.68	116.56	119.90
1	N	316	C	N1-C1'-C2'	-6.68	104.65	112.00
1	N	283	U	C5'-C4'-O4'	6.68	117.11	109.10
1	N	656	G	C5-N7-C8	6.68	107.64	104.30
1	N	806	C	N1-C2-O2	-6.68	114.89	118.90
1	N	998	C	C4-C5-C6	-6.68	114.06	117.40
1	N	545	C	N3-C4-N4	6.68	122.67	118.00
1	N	864	A	C6-C5-N7	-6.67	127.63	132.30
1	N	1127	G	N9-C4-C5	6.67	108.07	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1183	U	C2-N3-C4	-6.67	123.00	127.00
1	N	1294	G	O4'-C1'-N9	6.67	113.54	108.20
1	N	1394	A	N9-C4-C5	-6.67	103.13	105.80
1	N	867	G	C2-N3-C4	6.67	115.24	111.90
1	N	940	C	C5-C6-N1	6.67	124.34	121.00
1	N	1185	G	N3-C2-N2	6.67	124.57	119.90
1	N	1497	G	C8-N9-C1'	6.67	135.67	127.00
1	N	354	G	N1-C2-N3	-6.67	119.90	123.90
1	N	206	C	C5-C4-N4	-6.67	115.53	120.20
1	N	363	A	N1-C6-N6	6.67	122.60	118.60
1	N	682	G	O5'-P-OP2	-6.67	99.70	105.70
1	N	925	G	N1-C2-N2	-6.67	110.20	116.20
1	N	1136	C	C2-N1-C1'	6.67	126.14	118.80
1	N	1228	C	O4'-C1'-N1	6.67	113.54	108.20
1	N	347	G	C4-C5-N7	6.67	113.47	110.80
1	N	542	G	N1-C2-N3	-6.67	119.90	123.90
1	N	974	A	C2-N3-C4	6.67	113.93	110.60
1	N	1080	A	C4-C5-N7	-6.67	107.37	110.70
1	N	1446	A	N9-C4-C5	6.67	108.47	105.80
1	N	700	G	N3-C4-C5	-6.67	125.27	128.60
1	N	1394	A	N1-C2-N3	6.67	132.63	129.30
1	N	131	A	C5'-C4'-C3'	-6.66	105.34	116.00
1	N	548	G	C8-N9-C1'	-6.66	118.34	127.00
1	N	966	G	N1-C2-N3	-6.66	119.90	123.90
1	N	1026	G	C5-N7-C8	6.66	107.63	104.30
1	N	959	A	C4-C5-C6	6.66	120.33	117.00
1	N	1049	U	C5'-C4'-C3'	6.66	126.66	116.00
1	N	1138	G	C5-C6-N1	-6.66	108.17	111.50
1	N	1152	A	C5-C6-N6	-6.66	118.37	123.70
1	N	836	G	C2-N3-C4	-6.66	108.57	111.90
1	N	76	G	C6-C5-N7	-6.66	126.41	130.40
1	N	1356	G	N3-C4-N9	-6.66	122.01	126.00
1	N	1403	C	N1-C2-O2	-6.66	114.91	118.90
1	N	210	C	C3'-C2'-C1'	6.66	106.82	101.50
1	N	500	G	N1-C2-N3	-6.66	119.91	123.90
1	N	518	C	N3-C2-O2	6.66	126.56	121.90
1	N	1324	A	C6-C5-N7	-6.66	127.64	132.30
1	N	394	G	C2-N3-C4	6.65	115.23	111.90
1	N	1340	A	N3-C4-C5	-6.65	122.14	126.80
1	N	1355	G	O4'-C1'-N9	6.65	113.52	108.20
1	N	20	U	P-O5'-C5'	6.65	131.54	120.90
1	N	479	U	C2-N3-C4	6.65	130.99	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	704	A	O4'-C1'-N9	6.65	113.52	108.20
1	N	889	A	N1-C6-N6	6.65	122.59	118.60
1	N	892	A	C2-N3-C4	6.65	113.92	110.60
1	N	1294	G	C4-C5-N7	-6.65	108.14	110.80
1	N	1386	G	C4-C5-N7	-6.65	108.14	110.80
1	N	301	G	P-O3'-C3'	-6.65	111.72	119.70
1	N	669	G	N1-C2-N3	-6.65	119.91	123.90
1	N	1454	G	N3-C2-N2	6.65	124.56	119.90
1	N	158	G	N9-C4-C5	6.65	108.06	105.40
1	N	256	U	O5'-C5'-C4'	-6.65	99.07	111.70
1	N	431	A	O4'-C4'-C3'	-6.65	97.35	104.00
1	N	1238	A	C2-N3-C4	-6.65	107.28	110.60
1	N	1250	A	C5-C6-N1	-6.65	114.38	117.70
1	N	1377	A	C5-C6-N6	-6.65	118.38	123.70
1	N	206	C	C6-N1-C1'	-6.65	112.83	120.80
1	N	1363	A	C5-N7-C8	6.65	107.22	103.90
1	N	1486	G	C5-C6-N1	-6.65	108.18	111.50
1	N	393	A	C4-C5-C6	6.64	120.32	117.00
1	N	1422	G	C4-C5-C6	6.64	122.79	118.80
1	N	384	G	C5'-C4'-O4'	6.64	117.07	109.10
1	N	1228	C	N3-C4-C5	-6.64	119.24	121.90
1	N	1456	A	C5'-C4'-C3'	6.64	126.63	116.00
1	N	576	C	C5-C6-N1	-6.64	117.68	121.00
1	N	900	A	C6-C5-N7	-6.64	127.65	132.30
1	N	1016	A	C5-N7-C8	6.64	107.22	103.90
1	N	1475	G	C6-N1-C2	6.64	129.08	125.10
1	N	696	A	C5-C6-N6	-6.64	118.39	123.70
1	N	287	U	C3'-C2'-C1'	-6.64	96.19	101.50
1	N	343	U	C5-C4-O4	6.64	129.88	125.90
1	N	401	C	O4'-C4'-C3'	-6.64	97.36	104.00
1	N	490	C	N3-C4-N4	6.64	122.64	118.00
1	N	817	C	C5-C6-N1	6.64	124.32	121.00
1	N	1342	C	P-O3'-C3'	-6.64	111.74	119.70
1	N	717	U	N1-C2-N3	-6.63	110.92	114.90
1	N	954	G	C4-C5-C6	6.63	122.78	118.80
1	N	1005	A	N7-C8-N9	-6.63	110.48	113.80
1	N	1015	G	N3-C4-N9	-6.63	122.02	126.00
1	N	1282	C	N3-C4-C5	-6.63	119.25	121.90
1	N	1511	G	N1-C6-O6	6.63	123.88	119.90
1	N	87	C	C3'-C2'-C1'	6.63	106.81	101.50
1	N	209	U	C5'-C4'-O4'	6.63	117.06	109.10
1	N	1466	C	C4'-C3'-C2'	-6.63	95.97	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	805	C	N1-C2-O2	6.63	122.88	118.90
1	N	936	C	O4'-C1'-N1	6.63	113.50	108.20
1	N	1401	G	O4'-C1'-N9	6.63	113.50	108.20
1	N	121	U	C6-N1-C2	-6.63	117.02	121.00
1	N	233	C	C2-N1-C1'	6.63	126.09	118.80
1	N	175	C	P-O5'-C5'	6.63	131.51	120.90
1	N	296	U	C2-N1-C1'	6.63	125.65	117.70
1	N	851	G	C4-C5-N7	6.63	113.45	110.80
1	N	1039	G	C8-N9-C1'	6.63	135.62	127.00
1	N	1217	C	N3-C4-C5	6.63	124.55	121.90
1	N	1414	U	C2-N3-C4	-6.63	123.02	127.00
1	N	21	G	N3-C2-N2	6.63	124.54	119.90
1	N	921	U	C2-N3-C4	6.63	130.98	127.00
1	N	1267	C	P-O5'-C5'	-6.63	110.30	120.90
1	N	1498	U	P-O3'-C3'	6.63	127.65	119.70
1	N	393	A	C5-C6-N6	-6.62	118.40	123.70
1	N	238	A	C5'-C4'-O4'	6.62	117.05	109.10
1	N	970	C	C2-N1-C1'	6.62	126.09	118.80
1	N	108	G	C6-N1-C2	6.62	129.07	125.10
1	N	358	U	N1-C2-N3	-6.62	110.93	114.90
1	N	674	G	N3-C2-N2	6.62	124.53	119.90
1	N	891	U	O4'-C4'-C3'	-6.62	97.38	104.00
1	N	945	G	C4-C5-N7	6.62	113.45	110.80
1	N	1018	G	N7-C8-N9	-6.62	109.79	113.10
1	N	1099	G	C5-C6-N1	-6.62	108.19	111.50
1	N	49	U	P-O3'-C3'	-6.62	111.76	119.70
1	N	117	G	C5-C6-N1	-6.62	108.19	111.50
1	N	353	A	P-O3'-C3'	6.62	127.64	119.70
1	N	391	G	C4-N9-C1'	-6.62	117.89	126.50
1	N	1042	A	C2'-C3'-O3'	6.62	124.29	113.70
1	N	1377	A	C6-C5-N7	-6.62	127.67	132.30
1	N	1397	C	N1-C2-O2	6.62	122.87	118.90
1	N	1487	G	C2-N3-C4	6.62	115.21	111.90
1	N	1053	G	N7-C8-N9	-6.62	109.79	113.10
1	N	418	C	C1'-O4'-C4'	6.62	115.19	109.90
1	N	146	G	C4-C5-N7	-6.61	108.15	110.80
1	N	593	U	N3-C4-O4	6.61	124.03	119.40
1	N	1227	A	O4'-C4'-C3'	-6.61	97.39	104.00
1	N	1486	G	N7-C8-N9	6.61	116.41	113.10
1	N	313	A	C5-C6-N1	-6.61	114.39	117.70
1	N	276	G	C5-N7-C8	-6.61	101.00	104.30
1	N	561	U	C1'-O4'-C4'	6.61	115.19	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1041	G	C1'-O4'-C4'	-6.61	104.61	109.90
1	N	1236	A	N9-C4-C5	-6.61	103.16	105.80
1	N	1069	C	C2-N1-C1'	-6.61	111.53	118.80
1	N	433	G	N1-C2-N3	-6.61	119.94	123.90
1	N	854	U	P-O3'-C3'	-6.61	111.77	119.70
1	N	985	C	C2-N3-C4	6.61	123.20	119.90
1	N	143	A	P-O5'-C5'	6.61	131.47	120.90
1	N	276	G	C4'-C3'-C2'	-6.61	95.99	102.60
1	N	803	G	N1-C2-N3	-6.61	119.94	123.90
1	N	1161	C	O4'-C1'-N1	6.61	113.48	108.20
1	N	1528	U	O4'-C1'-C2'	-6.61	99.19	105.80
1	N	191	G	N3-C2-N2	6.60	124.52	119.90
1	N	1185	G	OP1-P-OP2	-6.60	109.69	119.60
1	N	1431	A	N1-C6-N6	6.60	122.56	118.60
1	N	1518	A	O4'-C1'-N9	6.60	113.48	108.20
1	N	1296	C	C6-N1-C2	6.60	122.94	120.30
1	N	1439	G	C8-N9-C4	6.60	109.04	106.40
1	N	741	G	C4-C5-N7	6.60	113.44	110.80
1	N	57	G	C5-C6-O6	-6.60	124.64	128.60
1	N	133	U	C1'-O4'-C4'	6.60	115.18	109.90
1	N	281	G	C5-N7-C8	6.60	107.60	104.30
1	N	593	U	O4'-C1'-N1	6.60	113.48	108.20
1	N	980	C	P-O3'-C3'	6.60	127.62	119.70
1	N	1457	G	O4'-C1'-C2'	6.60	113.54	107.60
1	N	1476	A	C5-C6-N1	-6.60	114.40	117.70
1	N	75	G	C4'-C3'-C2'	-6.60	96.00	102.60
1	N	267	C	N3-C4-N4	6.60	122.62	118.00
1	N	524	G	N3-C2-N2	6.59	124.52	119.90
1	N	885	G	C5-C6-O6	-6.59	124.64	128.60
1	N	1014	A	C4-C5-N7	-6.59	107.40	110.70
1	N	578	C	C4'-C3'-C2'	-6.59	96.01	102.60
1	N	931	C	C4'-C3'-C2'	-6.59	96.01	102.60
1	N	1260	G	C5-N7-C8	6.59	107.60	104.30
1	N	1439	G	O4'-C1'-N9	6.59	113.47	108.20
1	N	342	C	C2-N3-C4	6.59	123.19	119.90
1	N	557	G	C6-C5-N7	-6.59	126.44	130.40
1	N	1423	G	P-O3'-C3'	-6.59	111.79	119.70
1	N	744	C	C5'-C4'-O4'	6.59	117.01	109.10
1	N	105	G	C8-N9-C1'	-6.59	118.44	127.00
1	N	434	U	N3-C2-O2	6.59	126.81	122.20
1	N	975	A	N1-C2-N3	6.59	132.59	129.30
1	N	209	U	N3-C4-C5	-6.59	110.65	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	647	C	C6-N1-C2	-6.59	117.67	120.30
1	N	882	C	N1-C2-O2	6.59	122.85	118.90
1	N	1068	G	N3-C2-N2	6.59	124.51	119.90
1	N	273	U	N3-C2-O2	6.58	126.81	122.20
1	N	1043	G	C8-N9-C1'	6.58	135.56	127.00
1	N	1522	U	P-O3'-C3'	-6.58	111.80	119.70
1	N	932	C	P-O5'-C5'	6.58	131.43	120.90
1	N	124	C	O4'-C1'-N1	6.58	113.46	108.20
1	N	642	A	C6-C5-N7	-6.58	127.69	132.30
1	N	40	C	C5-C4-N4	-6.58	115.59	120.20
1	N	72	A	C5-C6-N1	-6.58	114.41	117.70
1	N	912	C	C5-C4-N4	-6.58	115.59	120.20
1	N	1488	G	N3-C2-N2	6.58	124.50	119.90
1	N	804	U	C5-C6-N1	-6.58	119.41	122.70
1	N	1466	C	N1-C2-O2	-6.58	114.95	118.90
1	N	284	C	N1-C1'-C2'	-6.58	104.77	112.00
1	N	581	G	C5-N7-C8	-6.58	101.01	104.30
1	N	833	G	O4'-C1'-N9	6.58	113.46	108.20
1	N	838	G	C6-N1-C2	6.58	129.05	125.10
1	N	876	C	C2-N1-C1'	6.58	126.03	118.80
1	N	1226	C	C6-N1-C1'	-6.58	112.91	120.80
1	N	1364	U	C6-N1-C1'	-6.58	112.00	121.20
1	N	1448	C	O4'-C1'-N1	6.58	113.46	108.20
1	N	347	G	P-O3'-C3'	-6.57	111.81	119.70
1	N	1043	G	C4-N9-C1'	-6.57	117.95	126.50
1	N	1111	A	N7-C8-N9	-6.57	110.51	113.80
1	N	1142	G	C6-N1-C2	6.57	129.04	125.10
1	N	544	G	C4'-C3'-C2'	-6.57	96.03	102.60
1	N	637	C	C5-C6-N1	6.57	124.29	121.00
1	N	1155	A	C4'-C3'-C2'	-6.57	96.03	102.60
1	N	962	C	C4-C5-C6	-6.57	114.12	117.40
1	N	1105	A	C6-C5-N7	-6.57	127.70	132.30
1	N	158	G	N3-C4-N9	-6.57	122.06	126.00
1	N	220	G	O3'-P-O5'	-6.57	91.52	104.00
1	N	286	C	N3-C4-C5	-6.57	119.27	121.90
1	N	441	A	C8-N9-C4	-6.57	103.17	105.80
1	N	704	A	N1-C2-N3	-6.57	126.02	129.30
1	N	1467	C	C5-C4-N4	-6.57	115.60	120.20
1	N	259	G	C6-C5-N7	-6.57	126.46	130.40
1	N	589	U	O4'-C1'-N1	6.57	113.45	108.20
1	N	903	G	O4'-C1'-N9	6.57	113.45	108.20
1	N	668	G	C4-C5-C6	6.56	122.74	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	822	U	C5'-C4'-O4'	6.56	116.98	109.10
1	N	725	G	P-O3'-C3'	6.56	127.58	119.70
1	N	914	A	C6-N1-C2	-6.56	114.66	118.60
1	N	950	U	N3-C2-O2	6.56	126.79	122.20
1	N	1333	A	C4-C5-C6	6.56	120.28	117.00
1	N	1139	G	N1-C2-N2	6.56	122.11	116.20
1	N	1165	U	C3'-C2'-C1'	6.56	106.75	101.50
1	N	73	C	C5-C4-N4	-6.56	115.61	120.20
1	N	440	C	O4'-C1'-N1	6.56	113.45	108.20
1	N	661	G	C5-C6-O6	-6.56	124.67	128.60
1	N	728	A	C5-N7-C8	6.56	107.18	103.90
1	N	1197	A	C4-C5-N7	-6.56	107.42	110.70
1	N	1326	U	C3'-C2'-C1'	6.56	106.75	101.50
1	N	1328	C	O4'-C4'-C3'	-6.56	97.44	104.00
1	N	1401	G	C5'-C4'-O4'	6.56	116.97	109.10
1	N	394	G	C8-N9-C4	-6.56	103.78	106.40
1	N	639	G	O4'-C1'-N9	6.56	113.44	108.20
1	N	718	A	O4'-C4'-C3'	-6.56	97.44	104.00
1	N	526	C	C2-N3-C4	-6.55	116.62	119.90
1	N	708	C	C5-C6-N1	6.55	124.28	121.00
1	N	1037	C	OP1-P-OP2	-6.55	109.77	119.60
1	N	1285	A	C6-C5-N7	-6.55	127.71	132.30
1	N	1345	U	C1'-O4'-C4'	-6.55	104.66	109.90
1	N	430	A	N1-C2-N3	6.55	132.58	129.30
1	N	81	A	N1-C6-N6	6.55	122.53	118.60
1	N	507	C	N1-C2-O2	6.55	122.83	118.90
1	N	770	C	N3-C4-N4	6.55	122.59	118.00
1	N	1507	A	P-O3'-C3'	-6.55	111.84	119.70
1	N	469	C	N3-C4-N4	6.55	122.58	118.00
1	N	583	A	C5-N7-C8	6.55	107.17	103.90
1	N	691	G	O4'-C1'-N9	6.55	113.44	108.20
1	N	335	C	C2-N3-C4	6.55	123.17	119.90
1	N	107	G	C4-C5-N7	-6.55	108.18	110.80
1	N	395	C	N3-C4-N4	6.55	122.58	118.00
1	N	935	A	C5-C6-N6	-6.55	118.46	123.70
1	N	287	U	C2-N3-C4	-6.54	123.07	127.00
1	N	794	A	C5-C6-N6	-6.54	118.46	123.70
1	N	803	G	C4-C5-C6	6.54	122.73	118.80
1	N	1386	G	C2-N3-C4	6.54	115.17	111.90
1	N	1407	C	C5-C4-N4	-6.54	115.62	120.20
1	N	54	C	C5-C4-N4	-6.54	115.62	120.20
1	N	270	A	C4-C5-C6	6.54	120.27	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	334	C	P-O3'-C3'	6.54	127.55	119.70
1	N	583	A	C5-C6-N6	6.54	128.94	123.70
1	N	622	A	N1-C6-N6	6.54	122.53	118.60
1	N	928	G	C5'-C4'-O4'	6.54	116.95	109.10
1	N	3	A	C5-C6-N6	-6.54	118.47	123.70
1	N	330	C	C2-N3-C4	6.54	123.17	119.90
1	N	865	A	C2-N3-C4	-6.54	107.33	110.60
1	N	1031	C	C3'-C2'-C1'	6.54	106.73	101.50
1	N	1214	C	P-O3'-C3'	-6.54	111.85	119.70
1	N	1234	C	O4'-C1'-N1	6.54	113.43	108.20
1	N	1252	A	C5-N7-C8	6.54	107.17	103.90
1	N	1499	A	C6-C5-N7	-6.54	127.72	132.30
1	N	688	G	C5-C6-O6	-6.54	124.68	128.60
1	N	1513	A	O4'-C1'-N9	6.54	113.43	108.20
1	N	893	C	C5-C4-N4	-6.54	115.62	120.20
1	N	1196	A	N1-C2-N3	6.54	132.57	129.30
1	N	370	C	N3-C4-C5	-6.54	119.29	121.90
1	N	404	G	N1-C6-O6	6.54	123.82	119.90
1	N	722	G	N9-C4-C5	-6.54	102.79	105.40
1	N	775	G	C5-C6-N1	-6.54	108.23	111.50
1	N	849	G	N1-C6-O6	6.54	123.82	119.90
1	N	1058	G	C8-N9-C4	-6.54	103.79	106.40
1	N	1339	A	N3-C4-C5	-6.54	122.22	126.80
1	N	249	U	N1-C2-N3	-6.53	110.98	114.90
1	N	310	G	C4'-C3'-C2'	-6.53	96.07	102.60
1	N	388	G	C8-N9-C4	6.53	109.01	106.40
1	N	749	A	C3'-C2'-C1'	-6.53	96.27	101.50
1	N	1190	G	N7-C8-N9	-6.53	109.83	113.10
1	N	408	A	C5-C6-N6	-6.53	118.47	123.70
1	N	1451	U	C3'-C2'-C1'	-6.53	96.27	101.50
1	N	246	A	O4'-C1'-N9	-6.53	102.97	108.20
1	N	455	G	P-O5'-C5'	6.53	131.35	120.90
1	N	503	C	N3-C4-C5	-6.53	119.29	121.90
1	N	933	G	C6-C5-N7	-6.53	126.48	130.40
1	N	1365	G	P-O5'-C5'	-6.53	110.45	120.90
1	N	1098	C	C3'-C2'-C1'	6.53	106.72	101.50
1	N	1222	G	C5-C6-N1	-6.53	108.24	111.50
1	N	361	G	N3-C4-N9	-6.53	122.08	126.00
1	N	978	A	C6-N1-C2	-6.53	114.69	118.60
1	N	885	G	C6-C5-N7	-6.52	126.49	130.40
1	N	963	G	C6-C5-N7	-6.52	126.49	130.40
1	N	1305	G	N9-C4-C5	6.52	108.01	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	829	G	O4'-C1'-N9	6.52	113.42	108.20
1	N	1187	G	C5-C6-O6	-6.52	124.69	128.60
1	N	1282	C	P-O5'-C5'	6.52	131.34	120.90
1	N	658	C	N3-C4-N4	6.52	122.56	118.00
1	N	824	G	C6-C5-N7	-6.52	126.49	130.40
1	N	473	U	P-O5'-C5'	6.52	131.33	120.90
1	N	612	C	N1-C2-O2	6.52	122.81	118.90
1	N	161	A	C1'-O4'-C4'	6.52	115.11	109.90
1	N	346	G	C4-C5-N7	6.52	113.41	110.80
1	N	1081	A	C2-N3-C4	-6.52	107.34	110.60
1	N	161	A	N1-C2-N3	-6.51	126.04	129.30
1	N	230	G	N1-C2-N3	-6.51	119.99	123.90
1	N	262	A	C8-N9-C4	-6.51	103.19	105.80
1	N	853	C	C6-N1-C2	6.51	122.91	120.30
1	N	1333	A	P-O5'-C5'	6.51	131.32	120.90
1	N	955	U	C2-N3-C4	6.51	130.91	127.00
1	N	1018	G	C8-N9-C4	6.51	109.00	106.40
1	N	1278	G	C6-C5-N7	-6.51	126.49	130.40
1	N	1333	A	C5-N7-C8	6.51	107.16	103.90
1	N	1337	G	C5-C6-O6	-6.51	124.69	128.60
1	N	309	A	C2-N3-C4	-6.51	107.34	110.60
1	N	907	A	C4-C5-C6	6.51	120.25	117.00
1	N	1470	U	C1'-O4'-C4'	-6.51	104.69	109.90
1	N	131	A	C8-N9-C4	-6.51	103.20	105.80
1	N	371	A	C4-C5-C6	6.51	120.25	117.00
1	N	538	G	C5-C6-N1	-6.51	108.25	111.50
1	N	770	C	N1-C2-O2	-6.51	114.99	118.90
1	N	773	G	C6-C5-N7	-6.51	126.50	130.40
1	N	1054	C	C2-N3-C4	6.51	123.16	119.90
1	N	1238	A	C6-N1-C2	6.51	122.51	118.60
1	N	880	C	C4-C5-C6	-6.51	114.15	117.40
1	N	190	A	C4-C5-C6	6.51	120.25	117.00
1	N	1157	A	C5-C6-N6	-6.51	118.50	123.70
1	N	410	G	N1-C2-N2	-6.50	110.35	116.20
1	N	663	A	O4'-C1'-N9	6.50	113.40	108.20
1	N	863	U	C4-C5-C6	-6.50	115.80	119.70
1	N	445	G	N1-C2-N3	-6.50	120.00	123.90
1	N	1115	U	C5-C6-N1	6.50	125.95	122.70
1	N	1311	A	C8-N9-C4	-6.50	103.20	105.80
1	N	1497	G	N3-C4-N9	-6.50	122.10	126.00
1	N	227	G	N9-C4-C5	6.50	108.00	105.40
1	N	734	G	N3-C4-N9	-6.50	122.10	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	51	A	C5-C6-N1	-6.50	114.45	117.70
1	N	97	G	C5-C6-O6	-6.50	124.70	128.60
1	N	130	A	C2-N3-C4	-6.50	107.35	110.60
1	N	234	C	C6-N1-C2	-6.50	117.70	120.30
1	N	425	G	C2-N3-C4	6.50	115.15	111.90
1	N	483	C	O4'-C1'-N1	6.50	113.40	108.20
1	N	606	G	N1-C2-N3	-6.50	120.00	123.90
1	N	609	A	C6-N1-C2	6.50	122.50	118.60
1	N	457	G	N3-C2-N2	6.50	124.45	119.90
1	N	461	A	N7-C8-N9	6.50	117.05	113.80
1	N	496	A	C3'-C2'-C1'	6.50	106.70	101.50
1	N	1259	C	O4'-C1'-N1	6.49	113.40	108.20
1	N	1490	U	C5'-C4'-O4'	6.49	116.89	109.10
1	N	1496	C	C4-C5-C6	-6.49	114.15	117.40
1	N	23	C	N3-C2-O2	6.49	126.44	121.90
1	N	1220	G	C4-C5-C6	6.49	122.69	118.80
1	N	734	G	N1-C6-O6	6.49	123.79	119.90
1	N	1475	G	P-O3'-C3'	-6.49	111.91	119.70
1	N	243	A	C5-C6-N1	-6.49	114.46	117.70
1	N	266	G	C6-C5-N7	-6.49	126.51	130.40
1	N	268	U	P-O3'-C3'	6.49	127.49	119.70
1	N	638	U	C6-N1-C2	-6.49	117.11	121.00
1	N	68	G	N1-C6-O6	6.49	123.79	119.90
1	N	148	G	C2-N3-C4	6.49	115.14	111.90
1	N	150	U	N1-C2-N3	-6.49	111.01	114.90
1	N	182	A	C4-C5-C6	6.49	120.24	117.00
1	N	387	U	C4-C5-C6	6.49	123.59	119.70
1	N	460	A	C4-C5-C6	6.49	120.24	117.00
1	N	495	A	O4'-C1'-N9	6.49	113.39	108.20
1	N	678	U	C6-N1-C2	6.49	124.89	121.00
1	N	694	A	O3'-P-O5'	-6.49	91.68	104.00
1	N	1210	C	C5-C4-N4	-6.49	115.66	120.20
1	N	1242	G	O4'-C1'-N9	6.48	113.39	108.20
1	N	1265	C	N3-C4-N4	6.48	122.54	118.00
1	N	108	G	C5-N7-C8	6.48	107.54	104.30
1	N	539	A	N9-C4-C5	-6.48	103.21	105.80
1	N	726	C	N3-C4-C5	-6.48	119.31	121.90
1	N	762	U	O4'-C1'-N1	6.48	113.39	108.20
1	N	1261	A	N3-C4-N9	6.48	132.59	127.40
1	N	1524	C	C1'-O4'-C4'	-6.48	104.71	109.90
1	N	444	G	C4'-C3'-C2'	-6.48	96.12	102.60
1	N	829	G	N7-C8-N9	6.48	116.34	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1080	A	C5'-C4'-O4'	6.48	116.88	109.10
1	N	1467	C	C3'-C2'-C1'	6.48	106.68	101.50
1	N	21	G	C4-C5-N7	-6.48	108.21	110.80
1	N	398	U	C2-N3-C4	6.48	130.89	127.00
1	N	794	A	C4-C5-C6	6.48	120.24	117.00
1	N	18	C	N1-C2-O2	-6.48	115.01	118.90
1	N	202	G	C4-C5-C6	6.48	122.69	118.80
1	N	1474	U	O4'-C1'-N1	6.48	113.38	108.20
1	N	68	G	C5-C6-N1	-6.47	108.26	111.50
1	N	632	U	O3'-P-O5'	-6.47	91.70	104.00
1	N	905	U	O5'-C5'-C4'	-6.47	99.40	111.70
1	N	1112	C	C4-C5-C6	6.47	120.64	117.40
1	N	1356	G	P-O3'-C3'	6.47	127.47	119.70
1	N	82	G	C5-N7-C8	-6.47	101.06	104.30
1	N	788	U	N3-C2-O2	6.47	126.73	122.20
1	N	980	C	C3'-C2'-C1'	-6.47	96.32	101.50
1	N	1054	C	N3-C4-N4	6.47	122.53	118.00
1	N	128	G	C8-N9-C4	-6.47	103.81	106.40
1	N	393	A	O4'-C1'-N9	6.47	113.38	108.20
1	N	429	U	C5-C6-N1	-6.47	119.47	122.70
1	N	607	A	C5-C6-N6	-6.47	118.53	123.70
1	N	909	A	N1-C2-N3	-6.47	126.06	129.30
1	N	177	G	O4'-C1'-N9	6.47	113.37	108.20
1	N	1287	A	C6-C5-N7	-6.47	127.77	132.30
1	N	1514	G	C5'-C4'-C3'	6.47	126.35	116.00
1	N	170	U	C2-N1-C1'	-6.47	109.94	117.70
1	N	233	C	C6-N1-C2	-6.47	117.71	120.30
1	N	700	G	N9-C4-C5	6.47	107.99	105.40
1	N	1035	A	C5'-C4'-C3'	-6.47	105.65	116.00
1	N	1158	C	C1'-O4'-C4'	6.47	115.07	109.90
1	N	1446	A	C5-C6-N1	-6.47	114.47	117.70
1	N	65	A	C5-C6-N1	-6.46	114.47	117.70
1	N	1110	A	C5-C6-N1	-6.46	114.47	117.70
1	N	1276	G	P-O3'-C3'	-6.46	111.94	119.70
1	N	22	G	N3-C2-N2	6.46	124.42	119.90
1	N	98	A	C5'-C4'-C3'	-6.46	105.66	116.00
1	N	190	A	C5-C6-N1	-6.46	114.47	117.70
1	N	325	A	N9-C4-C5	6.46	108.39	105.80
1	N	764	C	C5-C6-N1	6.46	124.23	121.00
1	N	781	A	C1'-O4'-C4'	6.46	115.07	109.90
1	N	1016	A	N3-C4-C5	-6.46	122.28	126.80
1	N	1251	A	C3'-C2'-C1'	6.46	106.67	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1293	C	O4'-C1'-N1	6.46	113.37	108.20
1	N	1308	U	C5-C6-N1	6.46	125.93	122.70
1	N	1009	U	C4'-C3'-C2'	-6.46	96.14	102.60
1	N	303	A	O4'-C1'-N9	6.46	113.37	108.20
1	N	655	A	N7-C8-N9	-6.46	110.57	113.80
1	N	1172	C	N3-C2-O2	6.46	126.42	121.90
1	N	189	A	C5-C6-N6	-6.46	118.53	123.70
1	N	545	C	C3'-C2'-C1'	6.46	106.67	101.50
1	N	554	A	C5'-C4'-C3'	6.46	126.33	116.00
1	N	632	U	C3'-C2'-C1'	6.46	106.67	101.50
1	N	857	C	C5-C4-N4	-6.46	115.68	120.20
1	N	1033	G	N7-C8-N9	6.46	116.33	113.10
1	N	1532	U	C5-C6-N1	6.46	125.93	122.70
1	N	1011	C	C5-C4-N4	-6.46	115.68	120.20
1	N	1165	U	O4'-C1'-N1	6.46	113.36	108.20
1	N	406	G	C3'-C2'-C1'	6.45	106.66	101.50
1	N	495	A	C6-N1-C2	-6.45	114.73	118.60
1	N	839	C	N3-C4-N4	6.45	122.52	118.00
1	N	143	A	C5-C6-N6	-6.45	118.54	123.70
1	N	355	C	N1-C2-O2	-6.45	115.03	118.90
1	N	666	G	C4-C5-N7	6.45	113.38	110.80
1	N	668	G	C6-N1-C2	6.45	128.97	125.10
1	N	1182	G	C8-N9-C1'	6.45	135.38	127.00
1	N	400	C	C6-N1-C1'	-6.45	113.06	120.80
1	N	435	A	N7-C8-N9	6.45	117.02	113.80
1	N	894	G	N9-C4-C5	-6.45	102.82	105.40
1	N	945	G	C6-N1-C2	6.45	128.97	125.10
1	N	411	A	C5-C6-N6	-6.45	118.54	123.70
1	N	98	A	N1-C2-N3	6.45	132.52	129.30
1	N	117	G	N3-C2-N2	6.45	124.41	119.90
1	N	182	A	N3-C4-C5	-6.45	122.29	126.80
1	N	274	A	C4-C5-C6	6.45	120.22	117.00
1	N	467	U	N3-C4-O4	6.45	123.91	119.40
1	N	537	G	N3-C2-N2	6.45	124.41	119.90
1	N	450	G	N7-C8-N9	-6.44	109.88	113.10
1	N	1051	C	C1'-O4'-C4'	-6.44	104.75	109.90
1	N	674	G	N3-C4-C5	-6.44	125.38	128.60
1	N	762	U	N3-C4-C5	6.44	118.47	114.60
1	N	959	A	P-O3'-C3'	6.44	127.43	119.70
1	N	1244	G	C6-N1-C2	-6.44	121.23	125.10
1	N	1447	A	C4-C5-N7	-6.44	107.48	110.70
1	N	1381	U	C2-N3-C4	6.44	130.87	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1508	A	P-O3'-C3'	6.44	127.43	119.70
1	N	262	A	C6-C5-N7	-6.44	127.79	132.30
1	N	578	C	N3-C4-N4	6.44	122.51	118.00
1	N	688	G	O4'-C1'-N9	6.44	113.35	108.20
1	N	846	G	O4'-C1'-C2'	-6.44	99.36	105.80
1	N	1405	G	C5'-C4'-C3'	6.44	126.30	116.00
1	N	453	G	C6-C5-N7	-6.44	126.54	130.40
1	N	635	A	C5-N7-C8	6.44	107.12	103.90
1	N	293	G	P-O5'-C5'	6.43	131.19	120.90
1	N	531	U	C6-N1-C2	-6.43	117.14	121.00
1	N	747	A	C5-N7-C8	6.43	107.12	103.90
1	N	928	G	C6-C5-N7	-6.43	126.54	130.40
1	N	1035	A	O4'-C4'-C3'	-6.43	97.56	104.00
1	N	1362	A	C5-C6-N6	-6.43	118.55	123.70
1	N	41	G	N1-C6-O6	6.43	123.76	119.90
1	N	78	A	N3-C4-C5	-6.43	122.30	126.80
1	N	368	U	C3'-C2'-C1'	6.43	106.65	101.50
1	N	969	A	O4'-C1'-N9	6.43	113.34	108.20
1	N	144	G	O4'-C4'-C3'	-6.43	97.57	104.00
1	N	563	A	C4'-C3'-C2'	6.43	109.03	102.60
1	N	748	G	C4-C5-N7	-6.43	108.23	110.80
1	N	866	C	C6-N1-C2	6.43	122.87	120.30
1	N	1450	U	O4'-C1'-N1	6.43	113.34	108.20
1	N	818	G	C5'-C4'-O4'	6.43	116.81	109.10
1	N	881	G	C4-C5-N7	-6.43	108.23	110.80
1	N	24	U	O4'-C1'-N1	6.43	113.34	108.20
1	N	308	C	N3-C4-N4	6.43	122.50	118.00
1	N	645	G	C6-C5-N7	-6.43	126.54	130.40
1	N	168	G	C4-C5-C6	6.42	122.66	118.80
1	N	615	G	C6-N1-C2	6.42	128.96	125.10
1	N	746	A	P-O3'-C3'	-6.42	111.99	119.70
1	N	486	U	C5-C6-N1	6.42	125.91	122.70
1	N	705	G	C4-C5-C6	6.42	122.65	118.80
1	N	1011	C	O4'-C1'-N1	6.42	113.34	108.20
1	N	175	C	N3-C4-C5	-6.42	119.33	121.90
1	N	208	U	O4'-C1'-N1	6.42	113.34	108.20
1	N	1530	G	C5-C6-O6	-6.42	124.75	128.60
1	N	841	C	O4'-C4'-C3'	-6.42	97.58	104.00
1	N	922	G	C4'-C3'-C2'	-6.42	96.18	102.60
1	N	934	C	C6-N1-C1'	-6.42	113.10	120.80
1	N	1162	C	C5'-C4'-O4'	-6.42	101.40	109.10
1	N	382	A	N1-C2-N3	-6.42	126.09	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1179	A	O4'-C1'-N9	6.42	113.33	108.20
1	N	1274	A	O4'-C1'-N9	6.42	113.33	108.20
1	N	103	U	N1-C2-O2	6.42	127.29	122.80
1	N	1095	U	O4'-C4'-C3'	-6.42	97.58	104.00
1	N	1251	A	C2-N3-C4	6.42	113.81	110.60
1	N	1482	G	C3'-C2'-C1'	-6.42	96.37	101.50
1	N	1142	G	O4'-C1'-N9	6.41	113.33	108.20
1	N	1363	A	C5'-C4'-C3'	-6.41	105.74	116.00
1	N	1410	A	C5-C6-N1	-6.41	114.49	117.70
1	N	504	C	N1-C2-O2	6.41	122.75	118.90
1	N	1262	C	N3-C4-N4	6.41	122.49	118.00
1	N	183	C	N1-C2-O2	6.41	122.75	118.90
1	N	409	U	P-O5'-C5'	6.41	131.16	120.90
1	N	697	U	N3-C2-O2	6.41	126.69	122.20
1	N	1233	G	C5-N7-C8	6.41	107.50	104.30
1	N	279	A	C6-N1-C2	-6.41	114.75	118.60
1	N	372	C	C5'-C4'-O4'	6.41	116.79	109.10
1	N	55	A	N7-C8-N9	-6.41	110.60	113.80
1	N	1072	G	N1-C2-N2	6.41	121.97	116.20
1	N	1395	C	C4-C5-C6	-6.41	114.20	117.40
1	N	754	C	O4'-C1'-N1	6.40	113.32	108.20
1	N	877	G	N3-C4-N9	6.40	129.84	126.00
1	N	104	G	O4'-C1'-N9	6.40	113.32	108.20
1	N	661	G	C5-N7-C8	6.40	107.50	104.30
1	N	1468	A	C8-N9-C4	6.40	108.36	105.80
1	N	1204	A	O3'-P-O5'	-6.40	91.84	104.00
1	N	1489	G	C2-N3-C4	6.40	115.10	111.90
1	N	227	G	C5-N7-C8	6.40	107.50	104.30
1	N	777	A	N9-C1'-C2'	-6.40	104.96	112.00
1	N	1256	A	P-O3'-C3'	6.40	127.38	119.70
1	N	446	G	C4'-C3'-C2'	-6.40	96.20	102.60
1	N	122	G	C4-C5-N7	6.39	113.36	110.80
1	N	157	U	C5-C6-N1	6.39	125.90	122.70
1	N	161	A	C4-C5-C6	6.39	120.20	117.00
1	N	515	G	N1-C2-N3	-6.39	120.06	123.90
1	N	729	A	C4-C5-C6	6.39	120.20	117.00
1	N	1213	A	O4'-C1'-N9	6.39	113.32	108.20
1	N	1057	G	C5-C6-N1	-6.39	108.30	111.50
1	N	131	A	C6-N1-C2	6.39	122.43	118.60
1	N	878	A	N9-C4-C5	6.39	108.36	105.80
1	N	85	U	P-O5'-C5'	6.39	131.12	120.90
1	N	421	U	C2-N1-C1'	6.39	125.37	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	781	A	C6-C5-N7	-6.39	127.83	132.30
1	N	1349	A	C2-N3-C4	6.39	113.79	110.60
1	N	164	G	C2-N3-C4	6.39	115.09	111.90
1	N	258	G	N1-C2-N3	-6.39	120.07	123.90
1	N	992	U	C5-C6-N1	6.39	125.89	122.70
1	N	1044	A	C3'-C2'-C1'	-6.39	96.39	101.50
1	N	803	G	C8-N9-C4	6.38	108.95	106.40
1	N	1027	C	C5-C4-N4	-6.38	115.73	120.20
1	N	558	G	C6-C5-N7	-6.38	126.57	130.40
1	N	1132	C	N3-C4-N4	6.38	122.47	118.00
1	N	17	U	C6-N1-C2	-6.38	117.17	121.00
1	N	524	G	N1-C6-O6	6.38	123.73	119.90
1	N	873	A	C6-N1-C2	6.38	122.43	118.60
1	N	1114	C	C1'-O4'-C4'	6.38	115.00	109.90
1	N	1338	G	N1-C2-N3	-6.38	120.07	123.90
1	N	7	A	C5-C6-N1	-6.38	114.51	117.70
1	N	1473	G	C6-N1-C2	6.38	128.93	125.10
1	N	342	C	O4'-C1'-N1	6.38	113.30	108.20
1	N	1500	A	O4'-C1'-N9	6.38	113.30	108.20
1	N	633	G	N3-C4-C5	6.38	131.79	128.60
1	N	1237	C	N3-C4-C5	-6.38	119.35	121.90
1	N	1274	A	C4-C5-N7	-6.38	107.51	110.70
1	N	171	A	C5-N7-C8	6.37	107.09	103.90
1	N	302	G	C8-N9-C4	6.37	108.95	106.40
1	N	972	C	N1-C1'-C2'	-6.37	104.99	112.00
1	N	1176	A	C4-C5-N7	-6.37	107.51	110.70
1	N	1286	U	C5-C6-N1	6.37	125.89	122.70
1	N	104	G	C2-N3-C4	-6.37	108.71	111.90
1	N	216	U	C5'-C4'-C3'	6.37	126.19	116.00
1	N	300	A	C4-C5-C6	6.37	120.19	117.00
1	N	819	A	N9-C4-C5	-6.37	103.25	105.80
1	N	846	G	O4'-C4'-C3'	6.37	111.20	106.10
1	N	1056	U	N1-C2-N3	-6.37	111.08	114.90
1	N	1416	G	N1-C2-N3	-6.37	120.08	123.90
1	N	1432	G	C1'-O4'-C4'	-6.37	104.80	109.90
1	N	226	G	C5-C6-O6	-6.37	124.78	128.60
1	N	725	G	C2-N3-C4	-6.37	108.72	111.90
1	N	821	G	N9-C4-C5	-6.37	102.85	105.40
1	N	1300	G	N9-C1'-C2'	6.37	122.28	114.00
1	N	664	G	P-O5'-C5'	-6.37	110.71	120.90
1	N	1219	A	C6-C5-N7	-6.37	127.84	132.30
1	N	535	A	N1-C2-N3	6.37	132.48	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	953	G	C6-N1-C2	6.37	128.92	125.10
1	N	750	C	O4'-C1'-N1	6.37	113.29	108.20
1	N	811	C	C4'-C3'-C2'	-6.37	96.23	102.60
1	N	913	A	N1-C2-N3	-6.37	126.12	129.30
1	N	1138	G	C6-C5-N7	-6.37	126.58	130.40
1	N	1405	G	P-O3'-C3'	-6.37	112.06	119.70
1	N	548	G	N3-C4-C5	-6.36	125.42	128.60
1	N	869	G	C4-C5-N7	6.36	113.35	110.80
1	N	872	A	C2-N3-C4	6.36	113.78	110.60
1	N	909	A	C4-C5-N7	-6.36	107.52	110.70
1	N	1129	C	N3-C4-N4	6.36	122.45	118.00
1	N	723	U	C2-N1-C1'	6.36	125.33	117.70
1	N	968	A	O3'-P-O5'	-6.36	91.91	104.00
1	N	1422	G	O4'-C1'-N9	6.36	113.29	108.20
1	N	456	A	N7-C8-N9	6.36	116.98	113.80
1	N	1247	U	O4'-C1'-N1	6.36	113.29	108.20
1	N	1275	A	N1-C2-N3	-6.36	126.12	129.30
1	N	1319	A	C6-N1-C2	6.36	122.42	118.60
1	N	1455	G	C4-N9-C1'	6.36	134.77	126.50
1	N	178	C	P-O5'-C5'	6.36	131.07	120.90
1	N	878	A	C4-C5-C6	6.36	120.18	117.00
1	N	58	C	N3-C2-O2	6.36	126.35	121.90
1	N	201	G	C5-C6-O6	-6.36	124.79	128.60
1	N	446	G	C2-N3-C4	6.36	115.08	111.90
1	N	552	U	N1-C2-O2	-6.36	118.35	122.80
1	N	998	C	C3'-C2'-C1'	6.36	106.58	101.50
1	N	1215	G	N3-C4-C5	6.36	131.78	128.60
1	N	891	U	C2-N3-C4	-6.35	123.19	127.00
1	N	718	A	N3-C4-N9	6.35	132.48	127.40
1	N	986	U	O5'-C5'-C4'	-6.35	99.63	111.70
1	N	1271	A	C5-C6-N6	-6.35	118.62	123.70
1	N	851	G	C1'-O4'-C4'	6.35	114.98	109.90
1	N	1481	U	N1-C2-O2	-6.35	118.35	122.80
1	N	84	U	O4'-C1'-N1	6.35	113.28	108.20
1	N	99	C	O3'-P-O5'	-6.35	91.94	104.00
1	N	594	U	C2-N1-C1'	6.35	125.32	117.70
1	N	10	A	O4'-C1'-N9	6.35	113.28	108.20
1	N	205	A	P-O5'-C5'	-6.35	110.75	120.90
1	N	1525	G	O4'-C1'-N9	6.35	113.28	108.20
1	N	97	G	N1-C6-O6	6.35	123.71	119.90
1	N	357	G	C2-N3-C4	6.35	115.07	111.90
1	N	433	G	C4-C5-C6	6.35	122.61	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	778	G	C4-C5-N7	6.35	113.34	110.80
1	N	832	G	N9-C1'-C2'	-6.35	105.02	112.00
1	N	372	C	O4'-C1'-C2'	-6.34	99.46	105.80
1	N	621	A	O4'-C1'-N9	6.34	113.28	108.20
1	N	1290	G	C5-C6-O6	-6.34	124.79	128.60
1	N	1332	A	C5'-C4'-C3'	-6.34	105.85	116.00
1	N	1437	A	C4-C5-C6	6.34	120.17	117.00
1	N	337	G	OP1-P-OP2	-6.34	110.09	119.60
1	N	1177	G	N1-C2-N3	-6.34	120.09	123.90
1	N	1309	G	N1-C6-O6	6.34	123.71	119.90
1	N	1467	C	P-O3'-C3'	6.34	127.31	119.70
1	N	105	G	C4-N9-C1'	6.34	134.74	126.50
1	N	313	A	N9-C4-C5	6.34	108.34	105.80
1	N	495	A	N1-C2-N3	6.34	132.47	129.30
1	N	507	C	C5-C4-N4	-6.34	115.76	120.20
1	N	801	U	C2-N3-C4	-6.34	123.19	127.00
1	N	1308	U	N3-C2-O2	6.34	126.64	122.20
1	N	1387	G	N9-C4-C5	6.34	107.94	105.40
1	N	112	G	N1-C2-N3	-6.34	120.10	123.90
1	N	711	G	C5-C6-O6	-6.34	124.80	128.60
1	N	905	U	C5-C6-N1	-6.34	119.53	122.70
1	N	410	G	C8-N9-C4	6.34	108.94	106.40
1	N	1504	G	N1-C6-O6	6.34	123.70	119.90
1	N	319	G	O4'-C1'-N9	6.34	113.27	108.20
1	N	805	C	C4-C5-C6	6.34	120.57	117.40
1	N	594	U	C2-N3-C4	6.33	130.80	127.00
1	N	1050	G	C4-C5-C6	6.33	122.60	118.80
1	N	348	G	C5-C6-N1	-6.33	108.33	111.50
1	N	716	A	O4'-C1'-N9	6.33	113.27	108.20
1	N	1432	G	N7-C8-N9	-6.33	109.93	113.10
1	N	1487	G	C4-C5-N7	-6.33	108.27	110.80
1	N	289	G	N3-C2-N2	6.33	124.33	119.90
1	N	930	C	C6-N1-C2	-6.33	117.77	120.30
1	N	1042	A	C4-C5-N7	6.33	113.87	110.70
1	N	1291	U	P-O5'-C5'	6.33	131.03	120.90
1	N	314	C	C2-N3-C4	6.33	123.06	119.90
1	N	194	C	C1'-O4'-C4'	-6.33	104.84	109.90
1	N	276	G	N1-C2-N3	-6.33	120.10	123.90
1	N	381	C	C5'-C4'-C3'	6.33	126.12	116.00
1	N	858	G	O4'-C1'-C2'	-6.33	99.47	105.80
1	N	1011	C	P-O3'-C3'	-6.33	112.11	119.70
1	N	373	A	C5-C6-N6	-6.33	118.64	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	455	G	O4'-C1'-N9	6.33	113.26	108.20
1	N	1027	C	C5-C6-N1	6.33	124.16	121.00
1	N	1215	G	N1-C2-N3	-6.33	120.11	123.90
1	N	1332	A	C4-C5-C6	6.33	120.16	117.00
1	N	1424	U	C6-N1-C2	6.33	124.80	121.00
1	N	168	G	C5'-C4'-O4'	6.32	116.69	109.10
1	N	198	G	N9-C4-C5	-6.32	102.87	105.40
1	N	321	A	C4-C5-C6	6.32	120.16	117.00
1	N	1297	G	C6-N1-C2	6.32	128.89	125.10
1	N	1420	U	O4'-C1'-N1	6.32	113.26	108.20
1	N	233	C	C6-N1-C1'	-6.32	113.22	120.80
1	N	781	A	N9-C4-C5	6.32	108.33	105.80
1	N	1241	G	N3-C2-N2	6.32	124.32	119.90
1	N	1431	A	C5-N7-C8	6.32	107.06	103.90
1	N	1444	U	C5'-C4'-O4'	6.32	116.68	109.10
1	N	631	C	N1-C2-N3	-6.32	114.78	119.20
1	N	953	G	P-O5'-C5'	6.32	131.01	120.90
1	N	1108	G	P-O3'-C3'	6.32	127.28	119.70
1	N	1504	G	C4-C5-C6	6.32	122.59	118.80
1	N	1530	G	N1-C2-N3	-6.32	120.11	123.90
1	N	728	A	N3-C4-C5	-6.32	122.38	126.80
1	N	1312	G	C3'-C2'-C1'	6.32	106.55	101.50
1	N	1336	C	N3-C4-N4	6.32	122.42	118.00
1	N	1509	C	N3-C2-O2	6.32	126.32	121.90
1	N	993	G	C8-N9-C1'	-6.32	118.79	127.00
1	N	1043	G	C5-C6-O6	-6.32	124.81	128.60
1	N	1219	A	C4-C5-C6	6.32	120.16	117.00
1	N	696	A	C5-N7-C8	6.31	107.06	103.90
1	N	1116	U	C5'-C4'-C3'	-6.31	105.90	116.00
1	N	204	G	C8-N9-C4	-6.31	103.88	106.40
1	N	430	A	C5-C6-N6	-6.31	118.65	123.70
1	N	1327	C	C5-C6-N1	6.31	124.16	121.00
1	N	689	C	C5-C4-N4	-6.31	115.78	120.20
1	N	754	C	C4'-C3'-C2'	6.31	108.91	102.60
1	N	191	G	C8-N9-C4	6.31	108.92	106.40
1	N	279	A	N1-C6-N6	6.31	122.39	118.60
1	N	869	G	C5-C6-O6	-6.31	124.81	128.60
1	N	893	C	C5'-C4'-C3'	6.31	126.10	116.00
1	N	942	G	C8-N9-C4	-6.31	103.88	106.40
1	N	1004	A	C4-C5-C6	6.31	120.15	117.00
1	N	1074	G	N1-C2-N3	-6.31	120.11	123.90
1	N	1095	U	N1-C2-N3	-6.31	111.11	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1494	G	N1-C2-N3	-6.31	120.11	123.90
1	N	412	A	N7-C8-N9	-6.31	110.65	113.80
1	N	570	G	C5-C6-N1	6.31	114.65	111.50
1	N	1182	G	C4-N9-C1'	-6.31	118.30	126.50
1	N	1094	G	C4-C5-C6	6.31	122.58	118.80
1	N	1156	G	P-O3'-C3'	6.31	127.27	119.70
1	N	1184	G	C3'-C2'-C1'	-6.31	96.45	101.50
1	N	752	G	C2'-C3'-O3'	6.30	123.79	113.70
1	N	781	A	C8-N9-C4	-6.30	103.28	105.80
1	N	890	G	C5-C6-O6	-6.30	124.82	128.60
1	N	1223	C	O4'-C1'-N1	6.30	113.24	108.20
1	N	1415	G	C6-N1-C2	6.30	128.88	125.10
1	N	243	A	C8-N9-C4	-6.30	103.28	105.80
1	N	302	G	C4-N9-C1'	-6.30	118.31	126.50
1	N	612	C	N3-C4-N4	6.30	122.41	118.00
1	N	1059	C	N3-C4-C5	-6.30	119.38	121.90
1	N	1170	A	C5-C6-N6	-6.30	118.66	123.70
1	N	97	G	C6-C5-N7	-6.30	126.62	130.40
1	N	466	A	C5-C6-N6	-6.30	118.66	123.70
1	N	831	A	O4'-C1'-N9	6.30	113.24	108.20
1	N	648	A	C5-C6-N6	-6.30	118.66	123.70
1	N	760	G	C5-C6-N1	-6.30	108.35	111.50
1	N	56	U	N3-C4-O4	6.30	123.81	119.40
1	N	588	G	N3-C4-C5	-6.30	125.45	128.60
1	N	838	G	N1-C2-N3	-6.30	120.12	123.90
1	N	848	C	N3-C4-N4	6.30	122.41	118.00
1	N	244	U	O4'-C1'-N1	6.29	113.24	108.20
1	N	321	A	C6-N1-C2	6.29	122.38	118.60
1	N	755	G	C5-N7-C8	6.29	107.45	104.30
1	N	194	C	C5-C6-N1	6.29	124.15	121.00
1	N	782	A	N1-C2-N3	6.29	132.45	129.30
1	N	873	A	N1-C2-N3	-6.29	126.15	129.30
1	N	890	G	N3-C4-C5	-6.29	125.45	128.60
1	N	1011	C	C2-N3-C4	6.29	123.05	119.90
1	N	1047	G	P-O5'-C5'	6.29	130.97	120.90
1	N	1392	G	P-O5'-C5'	6.29	130.97	120.90
1	N	335	C	N3-C2-O2	6.29	126.30	121.90
1	N	543	U	C5-C4-O4	-6.29	122.12	125.90
1	N	1002	G	C4-N9-C1'	-6.29	118.32	126.50
1	N	1074	G	N3-C2-N2	6.29	124.31	119.90
1	N	1135	U	C5-C6-N1	-6.29	119.56	122.70
1	N	170	U	P-O5'-C5'	6.29	130.96	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	364	A	N9-C4-C5	6.29	108.31	105.80
1	N	619	U	C1'-O4'-C4'	-6.29	104.87	109.90
1	N	1141	C	N3-C4-N4	6.29	122.40	118.00
1	N	1518	A	N9-C4-C5	6.29	108.32	105.80
1	N	122	G	C6-C5-N7	-6.29	126.63	130.40
1	N	591	U	C2-N1-C1'	6.29	125.24	117.70
1	N	824	G	C4-C5-N7	6.29	113.31	110.80
1	N	1106	G	C5-N7-C8	6.29	107.44	104.30
1	N	1398	A	N7-C8-N9	-6.29	110.66	113.80
1	N	125	U	N1-C2-O2	-6.28	118.40	122.80
1	N	212	G	C5'-C4'-O4'	-6.28	101.56	109.10
1	N	239	U	N3-C2-O2	6.28	126.60	122.20
1	N	765	G	P-O3'-C3'	-6.28	112.16	119.70
1	N	165	G	N9-C4-C5	-6.28	102.89	105.40
1	N	316	C	C5'-C4'-O4'	6.28	116.64	109.10
1	N	1437	A	P-O3'-C3'	6.28	127.24	119.70
1	N	1306	A	C1'-O4'-C4'	6.28	114.92	109.90
1	N	756	C	N3-C4-N4	6.28	122.40	118.00
1	N	1095	U	C5-C4-O4	6.28	129.67	125.90
1	N	1497	G	O4'-C1'-N9	6.28	113.22	108.20
1	N	211	G	C8-N9-C1'	-6.28	118.84	127.00
1	N	1392	G	N3-C4-N9	-6.28	122.23	126.00
1	N	1484	C	C2-N3-C4	6.28	123.04	119.90
1	N	375	U	N3-C2-O2	6.28	126.59	122.20
1	N	659	U	N3-C4-O4	6.28	123.79	119.40
1	N	1340	A	C5-C6-N1	-6.28	114.56	117.70
1	N	11	G	C1'-O4'-C4'	-6.27	104.88	109.90
1	N	134	G	N7-C8-N9	6.27	116.24	113.10
1	N	1292	G	N9-C4-C5	6.27	107.91	105.40
1	N	1514	G	O4'-C1'-N9	6.27	113.22	108.20
1	N	1282	C	O4'-C1'-N1	6.27	113.22	108.20
1	N	329	A	C6-N1-C2	6.27	122.36	118.60
1	N	767	A	C4'-C3'-C2'	-6.27	96.33	102.60
1	N	1181	G	C5'-C4'-C3'	-6.27	105.97	116.00
1	N	1273	C	C5'-C4'-O4'	6.27	116.62	109.10
1	N	1340	A	P-O3'-C3'	6.27	127.22	119.70
1	N	1413	A	C4-C5-N7	-6.27	107.56	110.70
1	N	1532	U	N3-C4-C5	-6.27	110.84	114.60
1	N	95	C	N1-C2-O2	6.27	122.66	118.90
1	N	377	G	N7-C8-N9	6.27	116.23	113.10
1	N	814	A	C6-C5-N7	-6.27	127.91	132.30
1	N	1100	C	N3-C4-N4	6.27	122.39	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1218	C	N3-C4-C5	-6.27	119.39	121.90
1	N	1277	C	C5-C6-N1	6.27	124.13	121.00
1	N	67	C	O4'-C1'-N1	6.27	113.21	108.20
1	N	264	C	C4-C5-C6	6.27	120.53	117.40
1	N	547	A	C4-C5-N7	-6.27	107.57	110.70
1	N	708	C	N3-C4-N4	6.27	122.39	118.00
1	N	43	C	O4'-C1'-N1	6.26	113.21	108.20
1	N	222	C	C5-C6-N1	6.26	124.13	121.00
1	N	719	C	C4-C5-C6	-6.26	114.27	117.40
1	N	1069	C	N1-C2-O2	6.26	122.66	118.90
1	N	1160	G	N1-C2-N3	-6.26	120.14	123.90
1	N	92	U	O5'-P-OP2	6.26	118.22	110.70
1	N	391	G	C4'-C3'-C2'	6.26	108.86	102.60
1	N	509	A	C5-N7-C8	6.26	107.03	103.90
1	N	1390	U	N3-C4-C5	-6.26	110.84	114.60
1	N	1059	C	C5-C4-N4	-6.26	115.82	120.20
1	N	130	A	C5'-C4'-C3'	-6.26	105.98	116.00
1	N	274	A	N7-C8-N9	-6.26	110.67	113.80
1	N	461	A	C5-N7-C8	-6.26	100.77	103.90
1	N	1298	U	C2-N3-C4	-6.26	123.25	127.00
1	N	11	G	O4'-C1'-N9	6.26	113.20	108.20
1	N	52	C	C5-C4-N4	-6.26	115.82	120.20
1	N	290	C	N3-C4-N4	6.26	122.38	118.00
1	N	318	G	N9-C1'-C2'	-6.26	105.12	112.00
1	N	830	G	C8-N9-C4	6.26	108.90	106.40
1	N	192	A	C5'-C4'-O4'	6.25	116.61	109.10
1	N	329	A	C5-C6-N1	-6.25	114.57	117.70
1	N	406	G	N9-C4-C5	6.25	107.90	105.40
1	N	356	A	N7-C8-N9	-6.25	110.67	113.80
1	N	556	C	C2-N3-C4	6.25	123.03	119.90
1	N	616	G	C4-C5-C6	6.25	122.55	118.80
1	N	840	C	N1-C2-N3	6.25	123.58	119.20
1	N	972	C	P-O3'-C3'	-6.25	112.20	119.70
1	N	49	U	C5'-C4'-C3'	-6.25	106.00	116.00
1	N	904	U	P-O3'-C3'	-6.25	112.20	119.70
1	N	920	U	P-O3'-C3'	6.25	127.20	119.70
1	N	1119	C	C6-N1-C1'	-6.25	113.30	120.80
1	N	1424	U	C5-C4-O4	-6.25	122.15	125.90
1	N	577	G	N1-C6-O6	6.25	123.65	119.90
1	N	626	G	O4'-C1'-N9	6.25	113.20	108.20
1	N	808	C	O4'-C1'-C2'	-6.25	99.55	105.80
1	N	108	G	C8-N9-C1'	-6.25	118.88	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	490	C	O4'-C1'-N1	6.25	113.20	108.20
1	N	1462	C	OP1-P-OP2	-6.25	110.23	119.60
1	N	498	A	O4'-C1'-N9	6.25	113.20	108.20
1	N	799	G	C2-N3-C4	-6.25	108.78	111.90
1	N	953	G	P-O3'-C3'	6.25	127.20	119.70
1	N	1134	G	N7-C8-N9	-6.25	109.98	113.10
1	N	27	G	N1-C6-O6	6.25	123.65	119.90
1	N	716	A	C4-C5-C6	6.25	120.12	117.00
1	N	981	U	O4'-C1'-N1	6.25	113.20	108.20
1	N	65	A	C4-N9-C1'	-6.24	115.06	126.30
1	N	517	G	O4'-C1'-N9	6.24	113.19	108.20
1	N	815	A	C6-C5-N7	-6.24	127.93	132.30
1	N	1084	G	N3-C4-C5	6.24	131.72	128.60
1	N	1228	C	N3-C4-N4	6.24	122.37	118.00
1	N	1522	U	C3'-C2'-C1'	6.24	106.50	101.50
1	N	924	C	C2-N3-C4	6.24	123.02	119.90
1	N	975	A	N1-C6-N6	6.24	122.34	118.60
1	N	1091	U	O4'-C1'-N1	6.24	113.19	108.20
1	N	579	A	C5-C6-N1	-6.24	114.58	117.70
1	N	1094	G	C5'-C4'-C3'	-6.24	106.02	116.00
1	N	1406	U	O4'-C1'-N1	6.24	113.19	108.20
1	N	1458	G	C5-C6-O6	-6.24	124.86	128.60
1	N	497	G	N9-C1'-C2'	-6.24	105.14	112.00
1	N	616	G	C4'-C3'-C2'	-6.24	96.36	102.60
1	N	795	C	C5-C4-N4	-6.24	115.83	120.20
1	N	801	U	P-O5'-C5'	-6.24	110.92	120.90
1	N	861	G	O4'-C1'-N9	6.24	113.19	108.20
1	N	1272	G	C2-N3-C4	6.24	115.02	111.90
1	N	386	C	C5-C4-N4	-6.24	115.83	120.20
1	N	883	C	C4-C5-C6	6.24	120.52	117.40
1	N	1253	G	C8-N9-C4	-6.24	103.91	106.40
1	N	109	A	C5-C6-N1	-6.24	114.58	117.70
1	N	335	C	C6-N1-C2	6.24	122.79	120.30
1	N	655	A	N1-C2-N3	-6.24	126.18	129.30
1	N	702	A	C5-N7-C8	6.24	107.02	103.90
1	N	837	U	N3-C4-C5	-6.24	110.86	114.60
1	N	1416	G	O3'-P-O5'	-6.24	92.15	104.00
1	N	1073	U	C2'-C3'-O3'	6.23	123.67	113.70
1	N	22	G	C5-C6-N1	-6.23	108.38	111.50
1	N	638	U	C1'-O4'-C4'	6.23	114.89	109.90
1	N	765	G	C2-N3-C4	-6.23	108.78	111.90
1	N	837	U	N3-C2-O2	6.23	126.56	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1217	C	C2-N3-C4	-6.23	116.78	119.90
1	N	1281	C	N3-C4-N4	6.23	122.36	118.00
1	N	146	G	C5-N7-C8	6.23	107.42	104.30
1	N	1311	A	P-O3'-C3'	-6.23	112.22	119.70
1	N	1504	G	N7-C8-N9	-6.23	109.98	113.10
1	N	524	G	N3-C4-N9	6.23	129.74	126.00
1	N	122	G	P-O5'-C5'	6.23	130.86	120.90
1	N	429	U	N1-C2-O2	-6.23	118.44	122.80
1	N	664	G	N9-C4-C5	6.23	107.89	105.40
1	N	713	G	N1-C2-N3	-6.23	120.16	123.90
1	N	830	G	O4'-C1'-N9	6.23	113.18	108.20
1	N	1386	G	C3'-C2'-C1'	6.23	106.48	101.50
1	N	1387	G	C4-C5-N7	-6.23	108.31	110.80
1	N	336	A	C5-C6-N1	-6.23	114.59	117.70
1	N	102	G	N7-C8-N9	-6.22	109.99	113.10
1	N	271	C	O4'-C1'-N1	6.22	113.18	108.20
1	N	289	G	C5-N7-C8	6.22	107.41	104.30
1	N	430	A	C4-C5-N7	-6.22	107.59	110.70
1	N	504	C	O4'-C1'-N1	6.22	113.18	108.20
1	N	557	G	C4-C5-C6	6.22	122.53	118.80
1	N	630	A	N1-C2-N3	-6.22	126.19	129.30
1	N	655	A	C6-C5-N7	-6.22	127.94	132.30
1	N	871	U	C3'-C2'-C1'	6.22	106.48	101.50
1	N	1160	G	C1'-O4'-C4'	6.22	114.88	109.90
1	N	1280	A	C4-C5-C6	6.22	120.11	117.00
1	N	458	U	N3-C4-O4	6.22	123.76	119.40
1	N	860	A	P-O3'-C3'	6.22	127.17	119.70
1	N	886	G	C3'-C2'-C1'	-6.22	96.52	101.50
1	N	852	G	C2-N3-C4	6.22	115.01	111.90
1	N	84	U	C6-N1-C1'	-6.22	112.49	121.20
1	N	178	C	C6-N1-C2	-6.22	117.81	120.30
1	N	191	G	C6-C5-N7	-6.22	126.67	130.40
1	N	332	G	N1-C6-O6	6.22	123.63	119.90
1	N	833	G	C5'-C4'-C3'	6.22	125.95	116.00
1	N	1236	A	C3'-C2'-C1'	6.22	106.48	101.50
1	N	1430	A	C6-C5-N7	-6.22	127.95	132.30
1	N	570	G	OP2-P-O3'	6.22	118.88	105.20
1	N	708	C	C6-N1-C2	-6.22	117.81	120.30
1	N	742	G	C4-C5-C6	-6.22	115.07	118.80
1	N	1074	G	O4'-C1'-N9	6.22	113.17	108.20
1	N	1381	U	N3-C4-O4	6.22	123.75	119.40
1	N	1388	C	P-O3'-C3'	6.22	127.16	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	337	G	N7-C8-N9	-6.21	109.99	113.10
1	N	340	U	C5-C4-O4	-6.21	122.17	125.90
1	N	517	G	P-O3'-C3'	6.21	127.16	119.70
1	N	1196	A	C4-C5-C6	6.21	120.11	117.00
1	N	1472	U	P-O3'-C3'	6.21	127.16	119.70
1	N	329	A	O4'-C1'-N9	6.21	113.17	108.20
1	N	447	G	P-O5'-C5'	6.21	130.84	120.90
1	N	685	G	O4'-C1'-N9	6.21	113.17	108.20
1	N	356	A	C5'-C4'-O4'	6.21	116.55	109.10
1	N	1483	A	C2-N3-C4	-6.21	107.49	110.60
1	N	1519	A	C5-C6-N1	-6.21	114.59	117.70
1	N	572	A	C3'-C2'-C1'	6.21	106.47	101.50
1	N	651	C	O4'-C1'-N1	6.21	113.17	108.20
1	N	118	U	P-O5'-C5'	6.21	130.83	120.90
1	N	337	G	N3-C2-N2	6.21	124.25	119.90
1	N	580	C	C4-C5-C6	6.21	120.50	117.40
1	N	692	U	N1-C2-N3	-6.21	111.17	114.90
1	N	1061	G	N1-C2-N2	-6.21	110.61	116.20
1	N	1401	G	N9-C4-C5	6.21	107.88	105.40
1	N	746	A	N3-C4-N9	6.21	132.37	127.40
1	N	846	G	C5'-C4'-C3'	-6.21	106.07	116.00
1	N	963	G	C5-C6-N1	-6.21	108.40	111.50
1	N	1072	G	O4'-C1'-N9	6.21	113.17	108.20
1	N	489	C	C4-C5-C6	6.21	120.50	117.40
1	N	1156	G	C6-C5-N7	-6.21	126.68	130.40
1	N	1409	C	C6-N1-C1'	-6.21	113.35	120.80
1	N	336	A	C4-C5-N7	-6.20	107.60	110.70
1	N	808	C	N3-C4-N4	6.20	122.34	118.00
1	N	1127	G	N1-C2-N3	-6.20	120.18	123.90
1	N	30	U	C2-N3-C4	-6.20	123.28	127.00
1	N	576	C	C4-C5-C6	6.20	120.50	117.40
1	N	595	A	C8-N9-C1'	-6.20	116.54	127.70
1	N	1096	C	C5-C6-N1	6.20	124.10	121.00
1	N	1382	C	C5-C6-N1	6.20	124.10	121.00
1	N	364	A	N1-C2-N3	6.20	132.40	129.30
1	N	533	A	N3-C4-N9	6.20	132.36	127.40
1	N	1243	C	C6-N1-C2	-6.20	117.82	120.30
1	N	1312	G	O4'-C1'-N9	6.20	113.16	108.20
1	N	1378	C	C2-N1-C1'	6.20	125.62	118.80
1	N	1505	G	C4-C5-C6	6.20	122.52	118.80
1	N	475	C	C5'-C4'-C3'	6.20	125.92	116.00
1	N	670	G	C5-C6-N1	-6.20	108.40	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	897	C	C2-N3-C4	6.20	123.00	119.90
1	N	3	A	O4'-C1'-N9	6.20	113.16	108.20
1	N	33	A	C3'-C2'-C1'	-6.20	96.54	101.50
1	N	147	G	N3-C4-C5	6.20	131.70	128.60
1	N	302	G	C4-C5-N7	-6.20	108.32	110.80
1	N	775	G	N3-C4-N9	-6.20	122.28	126.00
1	N	1016	A	O4'-C1'-N9	6.20	113.16	108.20
1	N	1039	G	C5-N7-C8	-6.20	101.20	104.30
1	N	1135	U	O4'-C4'-C3'	-6.20	97.80	104.00
1	N	1309	G	O4'-C4'-C3'	-6.20	97.80	104.00
1	N	1333	A	P-O3'-C3'	-6.20	112.27	119.70
1	N	168	G	C2-N3-C4	6.19	115.00	111.90
1	N	694	A	C4'-C3'-C2'	-6.19	96.41	102.60
1	N	760	G	C1'-O4'-C4'	6.19	114.85	109.90
1	N	1314	C	C1'-O4'-C4'	6.19	114.85	109.90
1	N	518	C	C2-N1-C1'	6.19	125.61	118.80
1	N	741	G	C5'-C4'-C3'	6.19	125.90	116.00
1	N	896	C	P-O5'-C5'	6.19	130.80	120.90
1	N	351	G	N3-C2-N2	6.19	124.23	119.90
1	N	205	A	N1-C6-N6	6.19	122.31	118.60
1	N	412	A	C4'-C3'-C2'	6.19	108.79	102.60
1	N	493	A	N3-C4-C5	6.19	131.13	126.80
1	N	738	C	N3-C4-N4	6.19	122.33	118.00
1	N	790	A	N3-C4-C5	-6.19	122.47	126.80
1	N	1128	C	N3-C4-N4	6.19	122.33	118.00
1	N	1306	A	N3-C4-C5	-6.19	122.47	126.80
1	N	239	U	C4-C5-C6	-6.18	115.99	119.70
1	N	470	C	N1-C2-N3	-6.18	114.87	119.20
1	N	577	G	C5-C6-N1	-6.18	108.41	111.50
1	N	1192	C	C2-N3-C4	6.18	122.99	119.90
1	N	1220	G	N3-C2-N2	6.18	124.23	119.90
1	N	73	C	C4-C5-C6	6.18	120.49	117.40
1	N	317	U	C6-N1-C2	-6.18	117.29	121.00
1	N	325	A	C6-N1-C2	-6.18	114.89	118.60
1	N	669	G	P-O5'-C5'	6.18	130.79	120.90
1	N	1211	U	C2-N3-C4	-6.18	123.29	127.00
1	N	315	A	O4'-C1'-N9	6.18	113.14	108.20
1	N	380	G	C4-N9-C1'	-6.18	118.46	126.50
1	N	483	C	C5'-C4'-O4'	6.18	116.52	109.10
1	N	775	G	C6-C5-N7	-6.18	126.69	130.40
1	N	1469	C	P-O3'-C3'	6.18	127.12	119.70
1	N	434	U	N3-C4-C5	-6.18	110.89	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	677	U	N3-C4-O4	6.18	123.73	119.40
1	N	816	A	C6-N1-C2	6.18	122.31	118.60
1	N	941	G	C6-N1-C2	-6.18	121.39	125.10
1	N	1161	C	C6-N1-C2	-6.18	117.83	120.30
1	N	1306	A	C5'-C4'-O4'	6.18	116.52	109.10
1	N	1507	A	C4-C5-C6	6.18	120.09	117.00
1	N	395	C	O4'-C1'-N1	6.18	113.14	108.20
1	N	616	G	C5-C6-N1	-6.18	108.41	111.50
1	N	668	G	C4-C5-N7	6.18	113.27	110.80
1	N	1081	A	C5-C6-N6	-6.18	118.76	123.70
1	N	1324	A	C5-N7-C8	6.18	106.99	103.90
1	N	34	C	C5-C6-N1	-6.17	117.91	121.00
1	N	968	A	N7-C8-N9	6.17	116.89	113.80
1	N	1340	A	N9-C4-C5	6.17	108.27	105.80
1	N	551	U	P-O5'-C5'	6.17	130.78	120.90
1	N	804	U	C2-N1-C1'	-6.17	110.29	117.70
1	N	1074	G	C1'-O4'-C4'	6.17	114.84	109.90
1	N	1100	C	C4-C5-C6	6.17	120.49	117.40
1	N	1110	A	N1-C2-N3	-6.17	126.21	129.30
1	N	1176	A	N1-C2-N3	-6.17	126.21	129.30
1	N	1280	A	C2-N3-C4	-6.17	107.51	110.60
1	N	103	U	P-O3'-C3'	-6.17	112.29	119.70
1	N	450	G	C2-N3-C4	-6.17	108.81	111.90
1	N	872	A	N1-C2-N3	-6.17	126.21	129.30
1	N	1347	G	N1-C2-N3	-6.17	120.20	123.90
1	N	1534	A	C5-C6-N1	-6.17	114.61	117.70
1	N	1105	A	C4-C5-N7	-6.17	107.61	110.70
1	N	1200	C	N1-C2-N3	-6.17	114.88	119.20
1	N	1220	G	N1-C2-N3	-6.17	120.20	123.90
1	N	29	U	N1-C2-N3	-6.17	111.20	114.90
1	N	112	G	N9-C1'-C2'	-6.17	105.22	112.00
1	N	423	G	N1-C2-N3	-6.17	120.20	123.90
1	N	574	A	C5-C6-N1	-6.17	114.62	117.70
1	N	1363	A	C4-C5-C6	6.17	120.08	117.00
1	N	382	A	C5-C6-N6	-6.17	118.77	123.70
1	N	455	G	N7-C8-N9	-6.17	110.02	113.10
1	N	465	A	C5-C6-N1	-6.17	114.62	117.70
1	N	929	G	N9-C4-C5	-6.17	102.93	105.40
1	N	1038	C	P-O3'-C3'	6.17	127.10	119.70
1	N	21	G	C4-N9-C1'	6.16	134.51	126.50
1	N	504	C	C4-C5-C6	-6.16	114.32	117.40
1	N	942	G	N1-C2-N3	-6.16	120.20	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1072	G	N3-C4-C5	6.16	131.68	128.60
1	N	156	C	C6-N1-C2	-6.16	117.83	120.30
1	N	894	G	C2'-C3'-O3'	6.16	123.56	113.70
1	N	1281	C	C5'-C4'-C3'	6.16	125.86	116.00
1	N	242	G	O3'-P-O5'	-6.16	92.30	104.00
1	N	340	U	C2-N3-C4	-6.16	123.30	127.00
1	N	404	G	N3-C4-N9	6.16	129.70	126.00
1	N	751	U	C6-N1-C1'	-6.16	112.58	121.20
1	N	1395	C	O4'-C4'-C3'	-6.16	97.84	104.00
1	N	19	A	C5-C6-N1	-6.16	114.62	117.70
1	N	233	C	C5-C6-N1	6.16	124.08	121.00
1	N	875	U	C5'-C4'-O4'	6.16	116.49	109.10
1	N	1244	G	O4'-C4'-C3'	-6.16	97.84	104.00
1	N	319	G	C5-N7-C8	6.16	107.38	104.30
1	N	367	U	OP1-P-OP2	-6.16	110.37	119.60
1	N	531	U	C5'-C4'-C3'	6.16	125.85	116.00
1	N	801	U	N3-C4-C5	-6.16	110.91	114.60
1	N	895	G	P-O3'-C3'	-6.16	112.31	119.70
1	N	1406	U	N1-C1'-C2'	-6.16	105.23	112.00
1	N	1440	U	C4'-C3'-C2'	-6.16	96.44	102.60
1	N	155	A	C5-C6-N1	-6.15	114.62	117.70
1	N	212	G	N7-C8-N9	-6.15	110.02	113.10
1	N	727	G	C4-C5-C6	6.15	122.49	118.80
1	N	100	G	N3-C4-N9	-6.15	122.31	126.00
1	N	179	A	C8-N9-C4	-6.15	103.34	105.80
1	N	833	G	C4-C5-N7	6.15	113.26	110.80
1	N	1223	C	C5-C4-N4	6.15	124.51	120.20
1	N	1337	G	N1-C6-O6	6.15	123.59	119.90
1	N	1358	U	N3-C2-O2	6.15	126.51	122.20
1	N	1425	U	C4'-C3'-C2'	-6.15	96.45	102.60
1	N	193	C	C6-N1-C1'	-6.15	113.42	120.80
1	N	299	G	C4-C5-N7	-6.15	108.34	110.80
1	N	668	G	N9-C4-C5	-6.15	102.94	105.40
1	N	831	A	C5-C6-N6	-6.15	118.78	123.70
1	N	972	C	C4-C5-C6	6.15	120.47	117.40
1	N	6	G	N1-C6-O6	6.15	123.59	119.90
1	N	325	A	C3'-C2'-C1'	-6.15	96.58	101.50
1	N	182	A	N3-C4-N9	6.15	132.32	127.40
1	N	397	A	C5-C6-N1	-6.15	114.63	117.70
1	N	546	A	C8-N9-C4	-6.15	103.34	105.80
1	N	746	A	C3'-C2'-C1'	-6.15	96.58	101.50
1	N	918	A	C5-N7-C8	6.15	106.97	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	995	C	C5-C6-N1	6.15	124.07	121.00
1	N	1393	U	P-O3'-C3'	6.15	127.08	119.70
1	N	502	A	C6-N1-C2	6.15	122.29	118.60
1	N	554	A	C5-C6-N1	-6.14	114.63	117.70
1	N	1264	U	C5-C6-N1	6.14	125.77	122.70
1	N	1515	G	C5-C6-O6	-6.14	124.91	128.60
1	N	487	A	O4'-C1'-N9	6.14	113.11	108.20
1	N	530	G	O4'-C1'-N9	6.14	113.11	108.20
1	N	991	U	N3-C2-O2	6.14	126.50	122.20
1	N	1103	C	O4'-C1'-N1	6.14	113.11	108.20
1	N	1193	G	P-O3'-C3'	6.14	127.07	119.70
1	N	1417	G	C8-N9-C4	-6.14	103.94	106.40
1	N	604	G	O4'-C1'-N9	6.14	113.11	108.20
1	N	955	U	C2-N1-C1'	6.14	125.07	117.70
1	N	1006	G	N1-C2-N3	-6.14	120.22	123.90
1	N	11	G	N1-C6-O6	6.14	123.58	119.90
1	N	77	A	P-O5'-C5'	-6.14	111.08	120.90
1	N	420	U	P-O3'-C3'	6.14	127.07	119.70
1	N	737	C	C5-C6-N1	6.14	124.07	121.00
1	N	1041	G	O3'-P-O5'	-6.14	92.33	104.00
1	N	1060	U	C2-N3-C4	6.14	130.68	127.00
1	N	1212	U	P-O3'-C3'	-6.14	112.33	119.70
1	N	1316	G	C5-C6-O6	-6.14	124.92	128.60
1	N	1401	G	C5-C6-N1	-6.14	108.43	111.50
1	N	1471	U	N1-C2-O2	6.14	127.10	122.80
1	N	212	G	P-O5'-C5'	6.14	130.72	120.90
1	N	294	U	C2-N3-C4	-6.14	123.32	127.00
1	N	424	G	N7-C8-N9	-6.14	110.03	113.10
1	N	454	G	N7-C8-N9	6.14	116.17	113.10
1	N	503	C	C5-C4-N4	-6.14	115.90	120.20
1	N	550	G	N1-C6-O6	6.14	123.58	119.90
1	N	554	A	P-O3'-C3'	-6.14	112.34	119.70
1	N	1154	G	P-O5'-C5'	-6.14	111.08	120.90
1	N	346	G	C5-N7-C8	6.13	107.37	104.30
1	N	436	C	C6-N1-C2	-6.13	117.85	120.30
1	N	1380	U	N3-C4-O4	6.13	123.69	119.40
1	N	1394	A	C5'-C4'-C3'	-6.13	106.18	116.00
1	N	336	A	N7-C8-N9	-6.13	110.73	113.80
1	N	1244	G	N9-C1'-C2'	-6.13	105.25	112.00
1	N	1529	G	C6-N1-C2	6.13	128.78	125.10
1	N	339	C	C5-C6-N1	6.13	124.06	121.00
1	N	357	G	N7-C8-N9	6.13	116.17	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	389	A	C4-C5-N7	-6.13	107.63	110.70
1	N	453	G	N1-C2-N3	-6.13	120.22	123.90
1	N	516	U	C4'-C3'-C2'	-6.13	96.47	102.60
1	N	560	A	C5'-C4'-O4'	6.13	116.46	109.10
1	N	958	A	C5-C6-N6	-6.13	118.80	123.70
1	N	1207	G	C5-C6-N1	-6.13	108.44	111.50
1	N	1264	U	P-O3'-C3'	6.13	127.06	119.70
1	N	1403	C	P-O5'-C5'	6.13	130.71	120.90
1	N	386	C	C5'-C4'-O4'	6.13	116.46	109.10
1	N	748	G	C4-C5-C6	6.13	122.48	118.80
1	N	8	A	C6-C5-N7	-6.13	128.01	132.30
1	N	309	A	C5'-C4'-C3'	-6.13	106.19	116.00
1	N	528	C	C2-N3-C4	6.13	122.96	119.90
1	N	834	U	N3-C4-O4	6.13	123.69	119.40
1	N	1274	A	P-O3'-C3'	-6.13	112.34	119.70
1	N	227	G	C6-N1-C2	6.13	128.78	125.10
1	N	775	G	C4-C5-C6	6.13	122.48	118.80
1	N	804	U	N3-C4-C5	-6.13	110.92	114.60
1	N	1419	G	N7-C8-N9	6.13	116.16	113.10
1	N	427	U	C2-N1-C1'	-6.12	110.35	117.70
1	N	540	G	P-O3'-C3'	6.12	127.05	119.70
1	N	648	A	P-O5'-C5'	6.12	130.70	120.90
1	N	195	A	O4'-C1'-N9	6.12	113.10	108.20
1	N	468	A	C4-C5-N7	-6.12	107.64	110.70
1	N	760	G	C5'-C4'-O4'	6.12	116.45	109.10
1	N	1064	G	C5-C6-O6	-6.12	124.93	128.60
1	N	832	G	N1-C2-N3	-6.12	120.23	123.90
1	N	840	C	O4'-C1'-N1	6.12	113.10	108.20
1	N	862	C	N3-C4-N4	6.12	122.28	118.00
1	N	75	G	C5-C6-O6	-6.12	124.93	128.60
1	N	501	C	N1-C2-N3	-6.12	114.92	119.20
1	N	953	G	N1-C2-N2	6.12	121.71	116.20
1	N	172	A	O4'-C1'-N9	6.12	113.09	108.20
1	N	1119	C	C5-C6-N1	-6.12	117.94	121.00
1	N	1419	G	C5'-C4'-C3'	-6.12	106.21	116.00
1	N	1486	G	C6-N1-C2	6.12	128.77	125.10
1	N	737	C	C6-N1-C2	6.12	122.75	120.30
1	N	1140	C	C6-N1-C1'	-6.12	113.46	120.80
1	N	39	G	N3-C4-C5	6.12	131.66	128.60
1	N	90	C	N3-C4-C5	-6.12	119.45	121.90
1	N	984	C	C6-N1-C1'	-6.12	113.46	120.80
1	N	1412	C	C4'-C3'-C2'	-6.11	96.49	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	971	G	N3-C2-N2	6.11	124.18	119.90
1	N	1112	C	C5-C4-N4	-6.11	115.92	120.20
1	N	1122	U	C2-N3-C4	-6.11	123.33	127.00
1	N	465	A	C5-C6-N6	-6.11	118.81	123.70
1	N	648	A	O4'-C1'-N9	6.11	113.09	108.20
1	N	919	A	C3'-C2'-C1'	-6.11	96.61	101.50
1	N	595	A	C2-N3-C4	-6.11	107.55	110.60
1	N	867	G	N1-C2-N3	-6.11	120.23	123.90
1	N	1258	G	C8-N9-C4	-6.11	103.96	106.40
1	N	264	C	N3-C4-N4	6.11	122.28	118.00
1	N	1152	A	N9-C4-C5	-6.11	103.36	105.80
1	N	1406	U	C5'-C4'-C3'	-6.11	106.23	116.00
1	N	192	A	C5-C6-N6	-6.11	118.81	123.70
1	N	199	A	C4-C5-C6	6.11	120.05	117.00
1	N	675	A	P-O3'-C3'	6.11	127.03	119.70
1	N	746	A	O4'-C1'-N9	6.11	113.08	108.20
1	N	979	C	N3-C4-N4	6.11	122.27	118.00
1	N	1476	A	C6-C5-N7	-6.11	128.03	132.30
1	N	189	A	C4-C5-C6	6.10	120.05	117.00
1	N	182	A	P-O5'-C5'	-6.10	111.14	120.90
1	N	489	C	N3-C2-O2	6.10	126.17	121.90
1	N	728	A	O5'-P-OP1	6.10	118.02	110.70
1	N	931	C	N3-C4-C5	-6.10	119.46	121.90
1	N	289	G	C6-C5-N7	-6.10	126.74	130.40
1	N	578	C	C5'-C4'-C3'	6.10	125.76	116.00
1	N	1029	U	C5-C4-O4	-6.10	122.24	125.90
1	N	1200	C	OP1-P-OP2	-6.10	110.45	119.60
1	N	1456	A	P-O5'-C5'	-6.10	111.14	120.90
1	N	1477	U	N3-C4-C5	-6.10	110.94	114.60
1	N	396	C	N3-C4-C5	-6.10	119.46	121.90
1	N	497	G	C5-C6-N1	6.10	114.55	111.50
1	N	635	A	C1'-O4'-C4'	-6.10	105.02	109.90
1	N	731	G	N3-C4-N9	6.10	129.66	126.00
1	N	1517	G	C5-C6-N1	6.10	114.55	111.50
1	N	1451	U	C2-N1-C1'	6.10	125.02	117.70
1	N	126	G	C5-N7-C8	6.09	107.35	104.30
1	N	1084	G	C6-N1-C2	6.09	128.76	125.10
1	N	1216	A	C4-C5-C6	6.09	120.05	117.00
1	N	769	G	N3-C2-N2	6.09	124.17	119.90
1	N	797	C	N1-C2-O2	-6.09	115.24	118.90
1	N	717	U	C5'-C4'-O4'	6.09	116.41	109.10
1	N	771	G	O4'-C4'-C3'	-6.09	97.91	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	162	A	C4'-C3'-C2'	-6.09	96.51	102.60
1	N	347	G	C4-C5-C6	6.09	122.45	118.80
1	N	582	C	N3-C4-C5	-6.09	119.46	121.90
1	N	994	A	C4-C5-C6	6.09	120.05	117.00
1	N	1258	G	N1-C6-O6	6.09	123.55	119.90
1	N	198	G	P-O3'-C3'	-6.09	112.39	119.70
1	N	829	G	N1-C2-N2	-6.09	110.72	116.20
1	N	889	A	P-O5'-C5'	-6.09	111.16	120.90
1	N	1131	G	C8-N9-C4	-6.09	103.97	106.40
1	N	350	G	C8-N9-C4	-6.09	103.97	106.40
1	N	971	G	C5'-C4'-C3'	-6.09	106.26	116.00
1	N	1467	C	O4'-C1'-N1	6.08	113.07	108.20
1	N	50	A	P-O3'-C3'	6.08	127.00	119.70
1	N	269	C	P-O5'-C5'	6.08	130.63	120.90
1	N	561	U	C2-N1-C1'	6.08	125.00	117.70
1	N	99	C	C5-C6-N1	-6.08	117.96	121.00
1	N	468	A	C5'-C4'-O4'	-6.08	101.80	109.10
1	N	1179	A	C4-C5-C6	6.08	120.04	117.00
1	N	1105	A	N9-C1'-C2'	-6.08	105.31	112.00
1	N	332	G	N3-C4-N9	6.08	129.65	126.00
1	N	517	G	N3-C2-N2	6.08	124.16	119.90
1	N	785	G	O4'-C1'-N9	6.08	113.06	108.20
1	N	930	C	N3-C4-C5	-6.08	119.47	121.90
1	N	1041	G	N3-C4-N9	-6.08	122.35	126.00
1	N	1274	A	N9-C4-C5	6.08	108.23	105.80
1	N	151	A	O4'-C4'-C3'	-6.08	97.92	104.00
1	N	1168	U	C2'-C3'-O3'	6.08	123.42	113.70
1	N	652	U	C2-N1-C1'	-6.08	110.41	117.70
1	N	1255	G	C5'-C4'-O4'	6.08	116.39	109.10
1	N	307	C	N3-C4-N4	6.07	122.25	118.00
1	N	387	U	C5-C6-N1	-6.07	119.66	122.70
1	N	520	A	C8-N9-C4	-6.07	103.37	105.80
1	N	684	U	C6-N1-C2	-6.07	117.36	121.00
1	N	758	C	N1-C2-N3	-6.07	114.95	119.20
1	N	1456	A	O4'-C1'-N9	6.07	113.06	108.20
1	N	1508	A	C8-N9-C4	-6.07	103.37	105.80
1	N	1241	G	C4-C5-C6	6.07	122.44	118.80
1	N	1421	G	C4-C5-N7	-6.07	108.37	110.80
1	N	69	G	P-O5'-C5'	-6.07	111.19	120.90
1	N	1172	C	N1-C2-N3	-6.07	114.95	119.20
1	N	1185	G	O4'-C4'-C3'	-6.07	97.93	104.00
1	N	1371	G	C5-C6-N1	-6.07	108.46	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	297	G	C4-N9-C1'	-6.07	118.61	126.50
1	N	1327	C	P-O3'-C3'	-6.07	112.42	119.70
1	N	152	A	C5-C6-N6	-6.07	118.84	123.70
1	N	621	A	C5-C6-N6	-6.07	118.85	123.70
1	N	647	C	C5-C6-N1	6.07	124.03	121.00
1	N	790	A	N9-C4-C5	6.07	108.23	105.80
1	N	985	C	C5-C6-N1	6.07	124.03	121.00
1	N	240	G	C3'-C2'-C1'	-6.07	96.65	101.50
1	N	379	C	N3-C4-C5	-6.07	119.47	121.90
1	N	680	C	N3-C4-N4	6.07	122.25	118.00
1	N	1419	G	P-O3'-C3'	-6.07	112.42	119.70
1	N	1433	A	C6-N1-C2	6.07	122.24	118.60
1	N	240	G	N1-C6-O6	6.06	123.54	119.90
1	N	423	G	P-O3'-C3'	6.06	126.98	119.70
1	N	572	A	N3-C4-C5	-6.06	122.56	126.80
1	N	1108	G	C2-N3-C4	-6.06	108.87	111.90
1	N	1146	A	C8-N9-C4	-6.06	103.38	105.80
1	N	694	A	C5-C6-N1	-6.06	114.67	117.70
1	N	736	C	C6-N1-C2	6.06	122.72	120.30
1	N	1064	G	N9-C4-C5	-6.06	102.97	105.40
1	N	70	U	C5'-C4'-O4'	6.06	116.37	109.10
1	N	85	U	C4-C5-C6	6.06	123.34	119.70
1	N	396	C	C4'-C3'-C2'	-6.06	96.54	102.60
1	N	549	C	O4'-C1'-N1	6.06	113.05	108.20
1	N	924	C	C6-N1-C1'	-6.06	113.53	120.80
1	N	164	G	N1-C2-N3	-6.06	120.27	123.90
1	N	258	G	C2-N3-C4	-6.06	108.87	111.90
1	N	506	G	C5-C6-N1	-6.06	108.47	111.50
1	N	1088	G	N7-C8-N9	6.06	116.13	113.10
1	N	1532	U	C4'-C3'-C2'	6.06	108.66	102.60
1	N	227	G	C4-C5-N7	-6.06	108.38	110.80
1	N	495	A	N7-C8-N9	-6.06	110.77	113.80
1	N	1301	U	C2-N3-C4	-6.06	123.37	127.00
1	N	380	G	C4-C5-C6	6.05	122.43	118.80
1	N	617	G	N1-C2-N3	-6.05	120.27	123.90
1	N	1118	U	O4'-C1'-N1	6.05	113.04	108.20
1	N	1258	G	C5-C6-O6	-6.05	124.97	128.60
1	N	254	G	C5-C6-O6	-6.05	124.97	128.60
1	N	1380	U	C3'-C2'-C1'	6.05	106.34	101.50
1	N	298	A	C5-C6-N1	-6.05	114.67	117.70
1	N	667	G	O4'-C1'-N9	6.05	113.04	108.20
1	N	926	G	N9-C4-C5	-6.05	102.98	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	903	G	C4-N9-C1'	6.05	134.36	126.50
1	N	1291	U	O4'-C1'-N1	6.05	113.04	108.20
1	N	104	G	C5'-C4'-O4'	6.05	116.36	109.10
1	N	207	C	P-O3'-C3'	6.05	126.96	119.70
1	N	1008	U	N3-C4-O4	6.05	123.63	119.40
1	N	1130	A	C5-C6-N1	-6.05	114.68	117.70
1	N	264	C	O5'-C5'-C4'	-6.04	100.21	111.70
1	N	1104	G	N3-C4-N9	6.04	129.63	126.00
1	N	1461	G	C6-C5-N7	-6.04	126.77	130.40
1	N	9	G	P-O5'-C5'	6.04	130.57	120.90
1	N	142	G	N1-C2-N3	-6.04	120.27	123.90
1	N	337	G	N1-C2-N3	-6.04	120.27	123.90
1	N	914	A	C5-C6-N6	-6.04	118.86	123.70
1	N	1082	A	N3-C4-C5	-6.04	122.57	126.80
1	N	1146	A	C4'-C3'-C2'	-6.04	96.56	102.60
1	N	750	C	P-O3'-C3'	-6.04	112.45	119.70
1	N	129	A	C2'-C3'-O3'	6.04	123.36	113.70
1	N	692	U	C5'-C4'-C3'	-6.04	106.34	116.00
1	N	859	G	C4-C5-N7	6.04	113.22	110.80
1	N	1280	A	C5-C6-N1	-6.04	114.68	117.70
1	N	939	G	O4'-C1'-N9	6.04	113.03	108.20
1	N	988	G	C4-C5-N7	6.04	113.22	110.80
1	N	25	C	N3-C4-C5	6.04	124.31	121.90
1	N	54	C	C5'-C4'-C3'	-6.04	106.34	116.00
1	N	147	G	OP1-P-OP2	-6.04	110.55	119.60
1	N	163	C	N3-C4-N4	6.04	122.22	118.00
1	N	556	C	N3-C4-N4	6.04	122.22	118.00
1	N	1223	C	N3-C2-O2	6.04	126.12	121.90
1	N	1402	C	P-O3'-C3'	6.04	126.94	119.70
1	N	1461	G	C8-N9-C4	-6.04	103.98	106.40
1	N	642	A	N1-C2-N3	6.03	132.32	129.30
1	N	753	A	C5-C6-N1	-6.03	114.68	117.70
1	N	1255	G	N9-C4-C5	6.03	107.81	105.40
1	N	1302	C	C5-C4-N4	-6.03	115.98	120.20
1	N	224	U	C6-N1-C2	-6.03	117.38	121.00
1	N	320	A	C6-N1-C2	6.03	122.22	118.60
1	N	943	U	C1'-O4'-C4'	6.03	114.73	109.90
1	N	984	C	C2-N1-C1'	6.03	125.44	118.80
1	N	1349	A	N7-C8-N9	-6.03	110.78	113.80
1	N	297	G	C8-N9-C1'	6.03	134.84	127.00
1	N	353	A	C5-C6-N1	-6.03	114.69	117.70
1	N	481	G	N9-C4-C5	-6.03	102.99	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	613	C	C3'-C2'-C1'	6.03	106.33	101.50
1	N	856	C	C6-N1-C2	6.03	122.71	120.30
1	N	1027	C	P-O3'-C3'	-6.03	112.46	119.70
1	N	1196	A	C5-N7-C8	6.03	106.92	103.90
1	N	392	C	C5'-C4'-O4'	6.03	116.33	109.10
1	N	1160	G	C8-N9-C1'	6.03	134.84	127.00
1	N	382	A	C4-C5-C6	6.03	120.01	117.00
1	N	814	A	C5-C6-N6	-6.03	118.88	123.70
1	N	948	C	N3-C4-N4	6.03	122.22	118.00
1	N	104	G	C4-N9-C1'	6.03	134.33	126.50
1	N	151	A	O4'-C1'-N9	6.03	113.02	108.20
1	N	319	G	C6-C5-N7	-6.03	126.78	130.40
1	N	734	G	C5-C6-O6	-6.02	124.98	128.60
1	N	1152	A	P-O5'-C5'	-6.02	111.26	120.90
1	N	284	C	C5-C4-N4	-6.02	115.98	120.20
1	N	308	C	O4'-C1'-N1	6.02	113.02	108.20
1	N	410	G	N1-C2-N3	-6.02	120.29	123.90
1	N	951	G	P-O5'-C5'	-6.02	111.26	120.90
1	N	1002	G	N9-C4-C5	-6.02	102.99	105.40
1	N	1250	A	N1-C6-N6	6.02	122.21	118.60
1	N	1299	A	N1-C2-N3	6.02	132.31	129.30
1	N	1377	A	C4-C5-C6	6.02	120.01	117.00
1	N	1126	U	C5-C6-N1	6.02	125.71	122.70
1	N	244	U	C5-C4-O4	-6.02	122.29	125.90
1	N	282	A	C8-N9-C4	-6.02	103.39	105.80
1	N	752	G	C4-C5-N7	6.02	113.21	110.80
1	N	927	G	N7-C8-N9	-6.02	110.09	113.10
1	N	1068	G	C5-C6-N1	-6.02	108.49	111.50
1	N	1175	G	C3'-C2'-C1'	-6.02	96.69	101.50
1	N	234	C	N3-C4-N4	6.02	122.21	118.00
1	N	930	C	C5'-C4'-C3'	6.02	125.63	116.00
1	N	1064	G	O4'-C1'-N9	6.02	113.01	108.20
1	N	1138	G	N1-C2-N3	-6.02	120.29	123.90
1	N	406	G	C4-C5-N7	-6.02	108.39	110.80
1	N	730	G	C8-N9-C4	-6.02	103.99	106.40
1	N	872	A	N3-C4-C5	-6.02	122.59	126.80
1	N	1181	G	N9-C4-C5	-6.02	102.99	105.40
1	N	1235	U	N1-C2-O2	6.02	127.01	122.80
1	N	166	U	P-O3'-C3'	6.01	126.92	119.70
1	N	410	G	C5-N7-C8	6.01	107.31	104.30
1	N	453	G	N9-C4-C5	6.01	107.81	105.40
1	N	497	G	N1-C6-O6	6.01	123.51	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	676	A	C5-C6-N1	-6.01	114.69	117.70
1	N	1038	C	C6-N1-C2	-6.01	117.89	120.30
1	N	1456	A	C4-C5-N7	6.01	113.71	110.70
1	N	102	G	C5-C6-N1	-6.01	108.50	111.50
1	N	534	U	C5-C6-N1	6.01	125.70	122.70
1	N	685	G	N1-C2-N3	-6.01	120.29	123.90
1	N	723	U	N1-C2-N3	-6.01	111.29	114.90
1	N	1193	G	N7-C8-N9	6.01	116.11	113.10
1	N	1464	U	C6-N1-C2	6.01	124.61	121.00
1	N	1486	G	N9-C4-C5	6.01	107.81	105.40
1	N	193	C	N3-C4-N4	6.01	122.21	118.00
1	N	1099	G	C8-N9-C4	-6.01	104.00	106.40
1	N	1357	A	N1-C6-N6	6.01	122.20	118.60
1	N	999	C	O4'-C1'-N1	6.01	113.01	108.20
1	N	349	A	N1-C6-N6	6.01	122.20	118.60
1	N	619	U	O4'-C1'-N1	6.01	113.00	108.20
1	N	775	G	N1-C6-O6	6.01	123.50	119.90
1	N	800	G	N7-C8-N9	-6.01	110.10	113.10
1	N	1197	A	C8-N9-C4	-6.01	103.40	105.80
1	N	1452	C	C5'-C4'-O4'	6.01	116.31	109.10
1	N	568	G	OP1-P-OP2	-6.00	110.59	119.60
1	N	623	C	N1-C2-N3	6.00	123.40	119.20
1	N	61	G	N9-C4-C5	6.00	107.80	105.40
1	N	70	U	C4-C5-C6	-6.00	116.10	119.70
1	N	210	C	C5'-C4'-O4'	6.00	116.30	109.10
1	N	920	U	O4'-C1'-N1	6.00	113.00	108.20
1	N	1100	C	O4'-C1'-N1	6.00	113.00	108.20
1	N	1208	C	C2-N3-C4	6.00	122.90	119.90
1	N	1328	C	C4'-C3'-C2'	6.00	108.60	102.60
1	N	1426	G	N1-C2-N3	-6.00	120.30	123.90
1	N	46	G	C4-C5-C6	6.00	122.40	118.80
1	N	517	G	C6-C5-N7	-6.00	126.80	130.40
1	N	667	G	N9-C4-C5	6.00	107.80	105.40
1	N	696	A	N9-C4-C5	-6.00	103.40	105.80
1	N	1232	U	N1-C2-O2	-6.00	118.60	122.80
1	N	568	G	N3-C2-N2	6.00	124.10	119.90
1	N	603	U	O4'-C1'-N1	6.00	113.00	108.20
1	N	144	G	OP1-P-OP2	-6.00	110.60	119.60
1	N	269	C	P-O3'-C3'	-6.00	112.50	119.70
1	N	293	G	C6-C5-N7	-6.00	126.80	130.40
1	N	805	C	O4'-C1'-N1	6.00	113.00	108.20
1	N	1131	G	C6-C5-N7	-6.00	126.80	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	393	A	C6-N1-C2	6.00	122.20	118.60
1	N	303	A	C5'-C4'-C3'	-6.00	106.41	116.00
1	N	748	G	P-O5'-C5'	6.00	130.49	120.90
1	N	1394	A	C8-N9-C4	6.00	108.20	105.80
1	N	811	C	O4'-C1'-N1	5.99	112.99	108.20
1	N	976	G	C5-C6-N1	-5.99	108.50	111.50
1	N	1193	G	C5'-C4'-C3'	-5.99	106.41	116.00
1	N	56	U	C5'-C4'-O4'	5.99	116.29	109.10
1	N	109	A	N7-C8-N9	-5.99	110.81	113.80
1	N	184	G	C5-C6-N1	-5.99	108.50	111.50
1	N	282	A	C3'-C2'-C1'	5.99	106.29	101.50
1	N	850	U	C4'-C3'-C2'	-5.99	96.61	102.60
1	N	932	C	N1-C2-O2	-5.99	115.31	118.90
1	N	1079	G	C6-N1-C2	-5.99	121.50	125.10
1	N	1298	U	N1-C2-N3	-5.99	111.31	114.90
1	N	106	C	N1-C2-O2	-5.99	115.31	118.90
1	N	525	C	C4-C5-C6	-5.99	114.41	117.40
1	N	1165	U	C6-N1-C2	-5.99	117.41	121.00
1	N	1335	U	N1-C1'-C2'	5.99	121.78	114.00
1	N	1338	G	N3-C4-C5	-5.99	125.61	128.60
1	N	367	U	C5-C6-N1	-5.99	119.71	122.70
1	N	1324	A	N9-C4-C5	5.99	108.19	105.80
1	N	243	A	N1-C6-N6	5.99	122.19	118.60
1	N	274	A	C8-N9-C4	5.99	108.19	105.80
1	N	388	G	N3-C4-N9	5.99	129.59	126.00
1	N	459	A	C6-C5-N7	-5.99	128.11	132.30
1	N	942	G	N3-C2-N2	5.99	124.09	119.90
1	N	234	C	O4'-C1'-N1	5.98	112.99	108.20
1	N	267	C	O4'-C1'-N1	5.98	112.99	108.20
1	N	387	U	N1-C2-O2	-5.98	118.61	122.80
1	N	980	C	C2-N3-C4	5.98	122.89	119.90
1	N	139	A	N1-C2-N3	5.98	132.29	129.30
1	N	544	G	N7-C8-N9	-5.98	110.11	113.10
1	N	706	A	N7-C8-N9	-5.98	110.81	113.80
1	N	803	G	N1-C6-O6	5.98	123.49	119.90
1	N	958	A	C8-N9-C4	-5.98	103.41	105.80
1	N	1074	G	C8-N9-C1'	-5.98	119.22	127.00
1	N	382	A	P-O3'-C3'	5.98	126.88	119.70
1	N	413	G	C4'-C3'-C2'	-5.98	96.62	102.60
1	N	765	G	C4-C5-C6	5.98	122.39	118.80
1	N	928	G	C5-N7-C8	-5.98	101.31	104.30
1	N	938	A	N3-C4-N9	5.98	132.19	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1289	A	N7-C8-N9	5.98	116.79	113.80
1	N	1053	G	N3-C2-N2	-5.98	115.72	119.90
1	N	1254	A	C5-C6-N1	-5.98	114.71	117.70
1	N	337	G	C1'-O4'-C4'	5.98	114.68	109.90
1	N	520	A	C5-C6-N6	-5.98	118.92	123.70
1	N	585	G	N7-C8-N9	5.98	116.09	113.10
1	N	1139	G	N3-C4-C5	5.98	131.59	128.60
1	N	1239	A	C4-C5-N7	-5.98	107.71	110.70
1	N	662	U	N1-C2-N3	5.98	118.48	114.90
1	N	849	G	C8-N9-C4	-5.98	104.01	106.40
1	N	1031	C	P-O3'-C3'	-5.98	112.53	119.70
1	N	1278	G	P-O3'-C3'	5.98	126.87	119.70
1	N	1440	U	N1-C2-N3	5.98	118.49	114.90
1	N	52	C	N1-C2-N3	-5.97	115.02	119.20
1	N	377	G	O5'-C5'-C4'	-5.97	100.35	111.70
1	N	596	A	N7-C8-N9	-5.97	110.81	113.80
1	N	1200	C	C4'-C3'-C2'	-5.97	96.63	102.60
1	N	376	G	N1-C6-O6	5.97	123.48	119.90
1	N	481	G	O4'-C4'-C3'	-5.97	98.03	104.00
1	N	600	A	C4-C5-N7	-5.97	107.71	110.70
1	N	698	G	C4-C5-N7	5.97	113.19	110.80
1	N	1515	G	P-O3'-C3'	-5.97	112.53	119.70
1	N	226	G	N1-C6-O6	5.97	123.48	119.90
1	N	256	U	C2'-C3'-O3'	5.97	123.25	113.70
1	N	1494	G	C6-C5-N7	-5.97	126.82	130.40
1	N	15	G	N1-C2-N3	-5.97	120.32	123.90
1	N	117	G	N3-C4-N9	5.97	129.58	126.00
1	N	389	A	C5'-C4'-C3'	-5.97	106.45	116.00
1	N	1065	U	N1-C2-N3	-5.97	111.32	114.90
1	N	1130	A	N3-C4-C5	-5.97	122.62	126.80
1	N	84	U	P-O5'-C5'	-5.97	111.35	120.90
1	N	113	G	N1-C6-O6	5.97	123.48	119.90
1	N	530	G	N3-C4-N9	-5.97	122.42	126.00
1	N	739	C	C5-C6-N1	5.97	123.98	121.00
1	N	767	A	C5-N7-C8	5.97	106.88	103.90
1	N	901	A	C4-C5-C6	5.97	119.98	117.00
1	N	1145	A	P-O5'-C5'	5.97	130.44	120.90
1	N	1283	U	C5'-C4'-C3'	-5.97	106.45	116.00
1	N	352	C	N1-C2-N3	-5.96	115.02	119.20
1	N	491	G	O5'-C5'-C4'	-5.96	100.37	111.70
1	N	1359	C	N1-C2-O2	5.96	122.48	118.90
1	N	498	A	C5-N7-C8	5.96	106.88	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	533	A	O4'-C1'-N9	5.96	112.97	108.20
1	N	773	G	P-O5'-C5'	5.96	130.44	120.90
1	N	231	U	N3-C4-C5	-5.96	111.02	114.60
1	N	518	C	C5-C4-N4	-5.96	116.03	120.20
1	N	563	A	P-O5'-C5'	-5.96	111.36	120.90
1	N	748	G	N3-C4-N9	5.96	129.58	126.00
1	N	1025	U	C5-C4-O4	5.96	129.48	125.90
1	N	1442	G	N7-C8-N9	5.96	116.08	113.10
1	N	740	U	C4-C5-C6	-5.96	116.12	119.70
1	N	1142	G	N9-C4-C5	-5.96	103.02	105.40
1	N	1300	G	N7-C8-N9	-5.96	110.12	113.10
1	N	579	A	C5-C6-N6	-5.96	118.93	123.70
1	N	914	A	N1-C2-N3	5.96	132.28	129.30
1	N	1513	A	C2-N3-C4	-5.96	107.62	110.60
1	N	401	C	N3-C2-O2	5.96	126.07	121.90
1	N	680	C	N3-C4-C5	-5.96	119.52	121.90
1	N	687	A	C4-C5-N7	-5.96	107.72	110.70
1	N	882	C	N3-C4-C5	-5.96	119.52	121.90
1	N	1098	C	O5'-C5'-C4'	-5.96	100.38	111.70
1	N	1455	G	C8-N9-C4	-5.96	104.02	106.40
1	N	1110	A	N9-C4-C5	5.96	108.18	105.80
1	N	1461	G	N9-C4-C5	5.96	107.78	105.40
1	N	247	G	N1-C6-O6	5.95	123.47	119.90
1	N	504	C	N3-C2-O2	-5.95	117.73	121.90
1	N	861	G	P-O3'-C3'	5.95	126.84	119.70
1	N	953	G	C5-C6-N1	-5.95	108.52	111.50
1	N	1025	U	P-O5'-C5'	5.95	130.43	120.90
1	N	1178	G	C6-C5-N7	-5.95	126.83	130.40
1	N	67	C	C4'-C3'-C2'	-5.95	96.65	102.60
1	N	807	A	C5-C6-N6	-5.95	118.94	123.70
1	N	953	G	C6-C5-N7	-5.95	126.83	130.40
1	N	1191	A	P-O5'-C5'	5.95	130.42	120.90
1	N	1209	C	C4-C5-C6	5.95	120.38	117.40
1	N	1251	A	N7-C8-N9	-5.95	110.83	113.80
1	N	1431	A	P-O5'-C5'	5.95	130.42	120.90
1	N	1459	G	N1-C2-N3	-5.95	120.33	123.90
1	N	31	G	N1-C2-N3	-5.95	120.33	123.90
1	N	1298	U	C5'-C4'-O4'	5.95	116.24	109.10
1	N	1068	G	O4'-C4'-C3'	-5.95	98.05	104.00
1	N	258	G	C8-N9-C4	5.95	108.78	106.40
1	N	570	G	C6-N1-C2	-5.95	121.53	125.10
1	N	1522	U	C5-C6-N1	5.95	125.67	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	151	A	P-O3'-C3'	-5.94	112.57	119.70
1	N	417	G	C6-C5-N7	-5.94	126.83	130.40
1	N	793	U	C6-N1-C2	-5.94	117.43	121.00
1	N	934	C	C2-N3-C4	5.94	122.87	119.90
1	N	1301	U	N1-C2-O2	-5.94	118.64	122.80
1	N	1440	U	C5-C6-N1	5.94	125.67	122.70
1	N	161	A	O4'-C1'-N9	5.94	112.95	108.20
1	N	171	A	C4-C5-N7	-5.94	107.73	110.70
1	N	209	U	C4-C5-C6	5.94	123.26	119.70
1	N	401	C	C5-C6-N1	5.94	123.97	121.00
1	N	795	C	N3-C2-O2	5.94	126.06	121.90
1	N	805	C	P-O5'-C5'	5.94	130.40	120.90
1	N	1194	U	C2-N1-C1'	5.94	124.83	117.70
1	N	1425	U	P-O3'-C3'	-5.94	112.57	119.70
1	N	113	G	P-O3'-C3'	-5.94	112.57	119.70
1	N	122	G	N1-C6-O6	5.94	123.46	119.90
1	N	866	C	C5-C6-N1	-5.94	118.03	121.00
1	N	993	G	C4-C5-C6	5.94	122.36	118.80
1	N	1187	G	C8-N9-C1'	-5.94	119.28	127.00
1	N	1488	G	C2-N3-C4	5.94	114.87	111.90
1	N	211	G	O4'-C4'-C3'	-5.94	98.06	104.00
1	N	333	U	O4'-C1'-N1	5.94	112.95	108.20
1	N	459	A	C5'-C4'-C3'	-5.94	106.50	116.00
1	N	473	U	C5-C4-O4	-5.93	122.34	125.90
1	N	654	G	N3-C2-N2	5.93	124.05	119.90
1	N	735	C	C5-C4-N4	5.93	124.35	120.20
1	N	1443	C	O4'-C1'-N1	5.93	112.95	108.20
1	N	1078	U	N3-C2-O2	5.93	126.35	122.20
1	N	298	A	N7-C8-N9	-5.93	110.83	113.80
1	N	529	G	C8-N9-C4	5.93	108.77	106.40
1	N	655	A	C1'-O4'-C4'	5.93	114.64	109.90
1	N	905	U	C6-N1-C1'	-5.93	112.90	121.20
1	N	1267	C	N1-C2-N3	-5.93	115.05	119.20
1	N	1361	G	C6-N1-C2	5.93	128.66	125.10
1	N	1370	G	N7-C8-N9	-5.93	110.14	113.10
1	N	1481	U	C5-C4-O4	-5.93	122.34	125.90
1	N	383	A	N9-C4-C5	-5.93	103.43	105.80
1	N	410	G	C5-C6-N1	-5.93	108.54	111.50
1	N	1313	U	N1-C2-N3	-5.93	111.34	114.90
1	N	1494	G	C5-C6-N1	-5.93	108.54	111.50
1	N	481	G	N1-C2-N2	-5.92	110.87	116.20
1	N	482	A	N3-C4-C5	-5.92	122.65	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	496	A	N9-C1'-C2'	5.92	121.70	114.00
1	N	582	C	C6-N1-C1'	-5.92	113.69	120.80
1	N	621	A	C5-C6-N1	-5.92	114.74	117.70
1	N	700	G	O4'-C1'-N9	5.92	112.94	108.20
1	N	783	C	N3-C4-N4	5.92	122.15	118.00
1	N	962	C	P-O3'-C3'	-5.92	112.59	119.70
1	N	41	G	C1'-O4'-C4'	5.92	114.64	109.90
1	N	133	U	C2-N3-C4	5.92	130.55	127.00
1	N	421	U	C6-N1-C2	-5.92	117.45	121.00
1	N	506	G	C6-C5-N7	-5.92	126.85	130.40
1	N	702	A	C5-C6-N1	-5.92	114.74	117.70
1	N	1108	G	C5-C6-O6	5.92	132.15	128.60
1	N	1464	U	N3-C4-C5	-5.92	111.05	114.60
1	N	987	G	C8-N9-C1'	5.92	134.70	127.00
1	N	1032	G	C5-N7-C8	5.92	107.26	104.30
1	N	518	C	O4'-C1'-N1	5.92	112.94	108.20
1	N	1480	A	N3-C4-C5	-5.92	122.66	126.80
1	N	51	A	C4-C5-N7	-5.92	107.74	110.70
1	N	148	G	C6-C5-N7	-5.92	126.85	130.40
1	N	254	G	C4-C5-C6	5.92	122.35	118.80
1	N	326	G	P-O3'-C3'	5.92	126.80	119.70
1	N	729	A	C5-N7-C8	5.92	106.86	103.90
1	N	960	U	C5'-C4'-C3'	5.92	125.47	116.00
1	N	1037	C	N3-C4-C5	-5.92	119.53	121.90
1	N	1272	G	C6-C5-N7	-5.92	126.85	130.40
1	N	724	G	C2-N3-C4	5.92	114.86	111.90
1	N	135	C	O4'-C1'-N1	5.91	112.93	108.20
1	N	285	C	C5-C6-N1	5.91	123.96	121.00
1	N	1416	G	C4'-C3'-C2'	-5.91	96.69	102.60
1	N	1251	A	C4-C5-C6	5.91	119.96	117.00
1	N	57	G	C4-C5-C6	5.91	122.35	118.80
1	N	394	G	N1-C2-N3	-5.91	120.35	123.90
1	N	1260	G	O4'-C1'-N9	5.91	112.93	108.20
1	N	1432	G	C3'-C2'-C1'	-5.91	96.77	101.50
1	N	115	G	O4'-C1'-N9	5.91	112.93	108.20
1	N	407	U	N1-C2-N3	-5.91	111.36	114.90
1	N	436	C	C5-C6-N1	5.91	123.95	121.00
1	N	901	A	C8-N9-C4	-5.91	103.44	105.80
1	N	992	U	N1-C2-O2	-5.91	118.66	122.80
1	N	1054	C	C5-C6-N1	5.91	123.95	121.00
1	N	1087	G	C5'-C4'-O4'	-5.91	102.01	109.10
1	N	1441	A	C4'-C3'-C2'	5.91	108.51	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	423	G	N7-C8-N9	5.91	116.05	113.10
1	N	1406	U	C5-C6-N1	-5.91	119.75	122.70
1	N	54	C	C2-N3-C4	5.91	122.85	119.90
1	N	156	C	C5-C6-N1	5.91	123.95	121.00
1	N	197	A	C5-C6-N6	-5.91	118.98	123.70
1	N	280	C	N3-C4-N4	5.91	122.13	118.00
1	N	417	G	C1'-O4'-C4'	5.91	114.62	109.90
1	N	523	A	N1-C6-N6	5.91	122.14	118.60
1	N	1041	G	C5-N7-C8	5.91	107.25	104.30
1	N	402	G	C6-C5-N7	-5.90	126.86	130.40
1	N	636	U	P-O3'-C3'	-5.90	112.62	119.70
1	N	134	G	N3-C4-C5	5.90	131.55	128.60
1	N	228	A	P-O3'-C3'	-5.90	112.62	119.70
1	N	351	G	O4'-C1'-N9	5.90	112.92	108.20
1	N	1373	G	O4'-C1'-C2'	5.90	112.91	107.60
1	N	1429	A	C2-N3-C4	-5.90	107.65	110.60
1	N	1500	A	N3-C4-N9	-5.90	122.68	127.40
1	N	799	G	C5-N7-C8	5.90	107.25	104.30
1	N	1115	U	P-O3'-C3'	-5.90	112.62	119.70
1	N	1366	C	N1-C2-N3	-5.90	115.07	119.20
1	N	140	U	C2-N1-C1'	-5.90	110.62	117.70
1	N	692	U	P-O5'-C5'	-5.90	111.47	120.90
1	N	700	G	C6-C5-N7	-5.90	126.86	130.40
1	N	900	A	C6-N1-C2	5.90	122.14	118.60
1	N	1271	A	N3-C4-N9	5.90	132.12	127.40
1	N	1316	G	C8-N9-C4	-5.90	104.04	106.40
1	N	239	U	OP1-P-OP2	-5.90	110.75	119.60
1	N	545	C	C5-C6-N1	5.90	123.95	121.00
1	N	62	U	N1-C2-N3	-5.89	111.36	114.90
1	N	802	A	C3'-C2'-C1'	5.89	106.22	101.50
1	N	1501	C	C6-N1-C2	5.89	122.66	120.30
1	N	229	U	O4'-C1'-N1	5.89	112.91	108.20
1	N	751	U	O4'-C1'-N1	5.89	112.92	108.20
1	N	1225	A	C4-C5-C6	5.89	119.95	117.00
1	N	1264	U	O5'-C5'-C4'	-5.89	100.51	111.70
1	N	1388	C	P-O5'-C5'	-5.89	111.47	120.90
1	N	438	U	C1'-O4'-C4'	-5.89	105.19	109.90
1	N	546	A	C5-C6-N1	-5.89	114.75	117.70
1	N	902	G	C5-C6-N1	-5.89	108.56	111.50
1	N	540	G	C4'-C3'-C2'	-5.89	96.71	102.60
1	N	1064	G	N7-C8-N9	-5.89	110.16	113.10
1	N	1193	G	O4'-C1'-N9	5.89	112.91	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	70	U	C5-C6-N1	5.88	125.64	122.70
1	N	581	G	O5'-C5'-C4'	-5.88	100.52	111.70
1	N	609	A	C2-N3-C4	-5.88	107.66	110.60
1	N	736	C	C6-N1-C1'	-5.88	113.74	120.80
1	N	970	C	C5-C4-N4	-5.88	116.08	120.20
1	N	1015	G	C5-C6-N1	-5.88	108.56	111.50
1	N	1310	G	N3-C2-N2	5.88	124.02	119.90
1	N	1405	G	O4'-C1'-N9	5.88	112.91	108.20
1	N	204	G	O4'-C1'-N9	5.88	112.91	108.20
1	N	1408	A	C4-C5-N7	-5.88	107.76	110.70
1	N	373	A	C5-N7-C8	5.88	106.84	103.90
1	N	539	A	O4'-C1'-N9	5.88	112.90	108.20
1	N	744	C	C4'-C3'-C2'	5.88	108.48	102.60
1	N	1338	G	O4'-C1'-C2'	5.88	112.89	107.60
1	N	87	C	N3-C4-N4	5.88	122.11	118.00
1	N	196	A	O3'-P-O5'	-5.88	92.83	104.00
1	N	420	U	O4'-C1'-N1	5.88	112.90	108.20
1	N	823	C	C4-C5-C6	5.88	120.34	117.40
1	N	1116	U	C3'-C2'-C1'	5.88	106.20	101.50
1	N	178	C	N3-C4-C5	-5.88	119.55	121.90
1	N	433	G	O4'-C4'-C3'	-5.88	98.12	104.00
1	N	705	G	N3-C4-C5	-5.88	125.66	128.60
1	N	895	G	N1-C2-N3	-5.88	120.37	123.90
1	N	1072	G	C5-C6-O6	-5.88	125.07	128.60
1	N	1235	U	N3-C4-C5	-5.88	111.07	114.60
1	N	734	G	N1-C2-N2	5.88	121.49	116.20
1	N	1345	U	N3-C2-O2	5.88	126.31	122.20
1	N	64	G	N1-C2-N3	-5.87	120.38	123.90
1	N	532	A	C5-N7-C8	5.87	106.84	103.90
1	N	1233	G	C6-C5-N7	-5.87	126.88	130.40
1	N	1386	G	C5'-C4'-C3'	5.87	125.40	116.00
1	N	346	G	N3-C4-C5	5.87	131.54	128.60
1	N	787	A	C4-C5-N7	-5.87	107.76	110.70
1	N	864	A	O4'-C1'-N9	5.87	112.90	108.20
1	N	960	U	N3-C2-O2	5.87	126.31	122.20
1	N	1478	U	C5-C6-N1	-5.87	119.76	122.70
1	N	230	G	C6-C5-N7	-5.87	126.88	130.40
1	N	558	G	C8-N9-C4	-5.87	104.05	106.40
1	N	645	G	C4-C5-C6	5.87	122.32	118.80
1	N	1191	A	C5-N7-C8	5.87	106.83	103.90
1	N	222	C	C4-C5-C6	-5.87	114.47	117.40
1	N	286	C	N3-C4-N4	5.87	122.11	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	349	A	N9-C4-C5	-5.87	103.45	105.80
1	N	798	U	C5'-C4'-C3'	5.87	125.39	116.00
1	N	940	C	C2-N3-C4	5.87	122.83	119.90
1	N	1065	U	C4'-C3'-C2'	5.87	108.47	102.60
1	N	1178	G	N3-C4-C5	-5.87	125.67	128.60
1	N	1357	A	O4'-C1'-N9	5.87	112.89	108.20
1	N	1518	A	C8-N9-C4	-5.87	103.45	105.80
1	N	230	G	C4-C5-C6	5.87	122.32	118.80
1	N	274	A	C4-C5-N7	-5.87	107.77	110.70
1	N	611	C	C5'-C4'-O4'	5.87	116.14	109.10
1	N	54	C	C2-N1-C1'	5.87	125.25	118.80
1	N	237	G	N1-C2-N3	-5.87	120.38	123.90
1	N	737	C	C5-C4-N4	-5.87	116.09	120.20
1	N	602	A	P-O5'-C5'	5.86	130.28	120.90
1	N	914	A	N7-C8-N9	5.86	116.73	113.80
1	N	1057	G	C6-C5-N7	-5.86	126.88	130.40
1	N	1162	C	C1'-O4'-C4'	-5.86	105.21	109.90
1	N	741	G	N9-C4-C5	-5.86	103.06	105.40
1	N	1515	G	OP1-P-OP2	-5.86	110.81	119.60
1	N	148	G	O4'-C1'-N9	5.86	112.89	108.20
1	N	179	A	C4-C5-C6	5.86	119.93	117.00
1	N	303	A	C5-C6-N6	-5.86	119.01	123.70
1	N	407	U	C6-N1-C2	-5.86	117.48	121.00
1	N	411	A	C4'-C3'-C2'	5.86	108.46	102.60
1	N	974	A	C3'-C2'-C1'	5.86	106.19	101.50
1	N	1020	G	O4'-C1'-N9	-5.86	103.51	108.20
1	N	1276	G	C6-N1-C2	5.86	128.62	125.10
1	N	1428	A	C4'-C3'-C2'	5.86	108.46	102.60
1	N	105	G	N1-C2-N3	5.86	127.42	123.90
1	N	210	C	N3-C4-N4	5.86	122.10	118.00
1	N	640	A	C6-N1-C2	-5.86	115.09	118.60
1	N	505	G	C5-N7-C8	5.86	107.23	104.30
1	N	672	U	P-O3'-C3'	-5.86	112.67	119.70
1	N	1476	A	C5'-C4'-O4'	5.86	116.13	109.10
1	N	190	A	P-O5'-C5'	5.85	130.27	120.90
1	N	780	A	C1'-O4'-C4'	5.85	114.58	109.90
1	N	1252	A	C4'-C3'-C2'	-5.85	96.75	102.60
1	N	21	G	O4'-C1'-N9	5.85	112.88	108.20
1	N	445	G	C6-N1-C2	5.85	128.61	125.10
1	N	499	A	C4-C5-C6	5.85	119.93	117.00
1	N	571	U	O4'-C1'-N1	5.85	112.88	108.20
1	N	610	U	N3-C2-O2	-5.85	118.10	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	654	G	C6-C5-N7	-5.85	126.89	130.40
1	N	901	A	N7-C8-N9	5.85	116.73	113.80
1	N	1364	U	C5-C4-O4	5.85	129.41	125.90
1	N	359	G	N3-C2-N2	5.85	124.00	119.90
1	N	386	C	C2-N3-C4	5.85	122.83	119.90
1	N	70	U	C2-N1-C1'	5.85	124.72	117.70
1	N	142	G	P-O3'-C3'	5.85	126.72	119.70
1	N	373	A	O4'-C1'-N9	5.85	112.88	108.20
1	N	989	U	N1-C2-N3	-5.85	111.39	114.90
1	N	1032	G	P-O5'-C5'	5.85	130.26	120.90
1	N	501	C	N3-C2-O2	5.85	125.99	121.90
1	N	762	U	C4-C5-C6	-5.85	116.19	119.70
1	N	966	G	P-O3'-C3'	5.85	126.72	119.70
1	N	1083	U	O4'-C1'-N1	5.85	112.88	108.20
1	N	1229	A	P-O3'-C3'	-5.85	112.68	119.70
1	N	1229	A	N1-C2-N3	5.85	132.22	129.30
1	N	31	G	C5-N7-C8	5.84	107.22	104.30
1	N	1495	U	N3-C4-O4	5.84	123.49	119.40
1	N	27	G	C4-C5-N7	-5.84	108.46	110.80
1	N	183	C	O4'-C1'-N1	5.84	112.87	108.20
1	N	332	G	N7-C8-N9	5.84	116.02	113.10
1	N	336	A	N9-C4-C5	5.84	108.14	105.80
1	N	500	G	P-O5'-C5'	5.84	130.25	120.90
1	N	614	C	C4-C5-C6	5.84	120.32	117.40
1	N	1115	U	O4'-C4'-C3'	-5.84	98.16	104.00
1	N	1145	A	O3'-P-O5'	-5.84	92.90	104.00
1	N	1296	C	C4-C5-C6	-5.84	114.48	117.40
1	N	148	G	C8-N9-C1'	-5.84	119.41	127.00
1	N	201	G	C5'-C4'-O4'	-5.84	102.09	109.10
1	N	204	G	C4'-C3'-O3'	5.84	124.68	113.00
1	N	460	A	C5-N7-C8	5.84	106.82	103.90
1	N	980	C	C5-C4-N4	-5.84	116.11	120.20
1	N	1363	A	P-O5'-C5'	5.84	130.24	120.90
1	N	158	G	N9-C1'-C2'	-5.84	105.58	112.00
1	N	339	C	O5'-C5'-C4'	-5.84	100.61	111.70
1	N	574	A	C6-N1-C2	5.84	122.10	118.60
1	N	693	G	C5-C6-O6	-5.84	125.10	128.60
1	N	1285	A	C5'-C4'-O4'	5.84	116.11	109.10
1	N	178	C	O5'-C5'-C4'	-5.84	100.61	111.70
1	N	592	G	C3'-C2'-C1'	-5.83	96.83	101.50
1	N	445	G	C5-C6-N1	-5.83	108.58	111.50
1	N	595	A	N9-C4-C5	-5.83	103.47	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	859	G	C4'-C3'-C2'	-5.83	96.77	102.60
1	N	1149	C	C1'-O4'-C4'	5.83	114.57	109.90
1	N	1396	A	C6-C5-N7	-5.83	128.22	132.30
1	N	1494	G	O4'-C1'-N9	5.83	112.87	108.20
1	N	32	A	C5-C6-N1	5.83	120.61	117.70
1	N	482	A	P-O3'-C3'	-5.83	112.70	119.70
1	N	1271	A	N1-C2-N3	-5.83	126.39	129.30
1	N	561	U	C4-C5-C6	5.83	123.20	119.70
1	N	629	A	N1-C6-N6	5.83	122.10	118.60
1	N	95	C	C5'-C4'-C3'	-5.83	106.67	116.00
1	N	190	A	N1-C2-N3	5.83	132.21	129.30
1	N	714	G	O4'-C1'-N9	5.83	112.86	108.20
1	N	946	A	C6-C5-N7	-5.83	128.22	132.30
1	N	1245	C	C2-N3-C4	5.83	122.81	119.90
1	N	157	U	C4'-C3'-C2'	-5.83	96.77	102.60
1	N	354	G	C5-N7-C8	-5.83	101.39	104.30
1	N	650	G	N1-C2-N3	-5.83	120.40	123.90
1	N	149	A	C1'-O4'-C4'	5.83	114.56	109.90
1	N	561	U	N1-C2-N3	5.83	118.39	114.90
1	N	776	G	N3-C2-N2	5.83	123.98	119.90
1	N	990	C	C2-N1-C1'	5.83	125.21	118.80
1	N	1137	C	N3-C4-N4	5.83	122.08	118.00
1	N	1519	A	O4'-C4'-C3'	-5.83	98.17	104.00
1	N	104	G	N3-C4-C5	5.82	131.51	128.60
1	N	648	A	N9-C1'-C2'	-5.82	105.59	112.00
1	N	786	G	N9-C4-C5	-5.82	103.07	105.40
1	N	873	A	P-O5'-C5'	5.82	130.22	120.90
1	N	1371	G	N9-C1'-C2'	-5.82	105.59	112.00
1	N	1498	U	N1-C2-O2	-5.82	118.72	122.80
1	N	551	U	C5-C6-N1	5.82	125.61	122.70
1	N	647	C	C2-N3-C4	5.82	122.81	119.90
1	N	1138	G	C5'-C4'-O4'	5.82	116.09	109.10
1	N	1503	A	N3-C4-C5	5.82	130.88	126.80
1	N	496	A	C5-C6-N1	-5.82	114.79	117.70
1	N	1033	G	C8-N9-C4	-5.82	104.07	106.40
1	N	1110	A	O4'-C1'-N9	5.82	112.86	108.20
1	N	322	C	N3-C2-O2	-5.82	117.83	121.90
1	N	366	A	N3-C4-C5	-5.82	122.73	126.80
1	N	108	G	C4-N9-C1'	5.82	134.06	126.50
1	N	473	U	N3-C4-O4	5.82	123.47	119.40
1	N	511	C	O5'-P-OP2	-5.82	100.46	105.70
1	N	1081	A	C4-C5-C6	5.82	119.91	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1092	A	C5-C6-N1	-5.82	114.79	117.70
1	N	1130	A	N1-C6-N6	5.82	122.09	118.60
1	N	1385	G	C8-N9-C4	-5.82	104.07	106.40
1	N	1401	G	C6-C5-N7	-5.82	126.91	130.40
1	N	121	U	N1-C2-O2	-5.81	118.73	122.80
1	N	123	U	O4'-C1'-N1	5.81	112.85	108.20
1	N	1408	A	N7-C8-N9	-5.81	110.89	113.80
1	N	81	A	C4-C5-C6	5.81	119.91	117.00
1	N	316	C	C4-C5-C6	-5.81	114.49	117.40
1	N	1116	U	OP1-P-OP2	-5.81	110.88	119.60
1	N	1143	G	N3-C2-N2	5.81	123.97	119.90
1	N	239	U	N1-C2-N3	5.81	118.39	114.90
1	N	1385	G	C2-N3-C4	-5.81	108.99	111.90
1	N	48	C	C6-N1-C2	5.81	122.62	120.30
1	N	131	A	C6-C5-N7	-5.81	128.23	132.30
1	N	495	A	C4'-C3'-C2'	5.81	108.41	102.60
1	N	703	G	P-O3'-C3'	5.81	126.67	119.70
1	N	833	G	P-O3'-C3'	-5.81	112.73	119.70
1	N	894	G	C5-N7-C8	-5.81	101.39	104.30
1	N	1399	C	O3'-P-O5'	5.81	115.04	104.00
1	N	255	G	C2-N3-C4	5.81	114.80	111.90
1	N	466	A	N3-C4-N9	5.81	132.05	127.40
1	N	488	C	O4'-C4'-C3'	-5.81	98.19	104.00
1	N	488	C	C5-C6-N1	-5.81	118.10	121.00
1	N	882	C	N3-C4-N4	5.81	122.06	118.00
1	N	1196	A	C5'-C4'-C3'	-5.81	106.71	116.00
1	N	809	G	C5-C6-N1	-5.81	108.60	111.50
1	N	1222	G	N1-C2-N3	-5.81	120.42	123.90
1	N	243	A	P-O5'-C5'	5.80	130.19	120.90
1	N	1010	U	P-O5'-C5'	5.80	130.19	120.90
1	N	356	A	C6-N1-C2	5.80	122.08	118.60
1	N	248	C	N3-C4-N4	5.80	122.06	118.00
1	N	310	G	N1-C2-N3	-5.80	120.42	123.90
1	N	706	A	C6-N1-C2	-5.80	115.12	118.60
1	N	774	G	P-O3'-C3'	-5.80	112.74	119.70
1	N	785	G	C3'-C2'-C1'	-5.80	96.86	101.50
1	N	790	A	C5-N7-C8	5.80	106.80	103.90
1	N	796	C	C6-N1-C2	-5.80	117.98	120.30
1	N	879	C	C6-N1-C1'	-5.80	113.84	120.80
1	N	904	U	N3-C4-O4	5.80	123.46	119.40
1	N	941	G	C2'-C3'-O3'	5.80	122.98	113.70
1	N	1088	G	N3-C4-N9	5.80	129.48	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	472	U	C5'-C4'-O4'	5.80	116.06	109.10
1	N	494	G	C5'-C4'-O4'	5.80	116.06	109.10
1	N	976	G	C4-C5-C6	5.80	122.28	118.80
1	N	1013	G	C5-C6-O6	-5.80	125.12	128.60
1	N	1154	G	N1-C2-N3	-5.80	120.42	123.90
1	N	63	C	C5-C4-N4	-5.80	116.14	120.20
1	N	285	C	C3'-C2'-C1'	-5.80	96.86	101.50
1	N	633	G	C4-C5-N7	5.80	113.12	110.80
1	N	116	A	O4'-C1'-N9	5.80	112.84	108.20
1	N	168	G	N3-C2-N2	5.79	123.96	119.90
1	N	195	A	C5'-C4'-C3'	-5.79	106.73	116.00
1	N	601	G	N9-C1'-C2'	-5.79	105.62	112.00
1	N	1522	U	N1-C2-N3	-5.79	111.42	114.90
1	N	18	C	C5'-C4'-C3'	5.79	125.27	116.00
1	N	360	G	C6-C5-N7	-5.79	126.92	130.40
1	N	662	U	P-O3'-C3'	5.79	126.65	119.70
1	N	1039	G	N7-C8-N9	5.79	116.00	113.10
1	N	1041	G	N3-C4-C5	5.79	131.50	128.60
1	N	1055	A	N9-C1'-C2'	-5.79	105.63	112.00
1	N	1318	A	C6-N1-C2	-5.79	115.12	118.60
1	N	102	G	C5'-C4'-O4'	5.79	116.05	109.10
1	N	372	C	C6-N1-C2	-5.79	117.98	120.30
1	N	181	A	N7-C8-N9	-5.79	110.91	113.80
1	N	1164	G	O5'-C5'-C4'	-5.79	100.70	111.70
1	N	1203	C	C1'-O4'-C4'	5.79	114.53	109.90
1	N	1086	U	C2-N3-C4	-5.79	123.53	127.00
1	N	276	G	O4'-C1'-N9	5.79	112.83	108.20
1	N	635	A	C4-C5-N7	-5.79	107.81	110.70
1	N	79	G	C5-C6-N1	5.79	114.39	111.50
1	N	350	G	C5-C6-O6	-5.79	125.13	128.60
1	N	576	C	C6-N1-C1'	-5.79	113.86	120.80
1	N	614	C	C4'-C3'-C2'	-5.79	96.81	102.60
1	N	926	G	N1-C2-N3	-5.79	120.43	123.90
1	N	1213	A	N1-C2-N3	5.79	132.19	129.30
1	N	1263	C	C1'-O4'-C4'	-5.79	105.27	109.90
1	N	1345	U	N1-C2-O2	-5.79	118.75	122.80
1	N	193	C	C6-N1-C2	-5.78	117.99	120.30
1	N	200	G	O4'-C1'-C2'	-5.78	100.02	105.80
1	N	247	G	C6-N1-C2	5.78	128.57	125.10
1	N	721	G	P-O5'-C5'	-5.78	111.65	120.90
1	N	791	G	C6-C5-N7	-5.78	126.93	130.40
1	N	1065	U	P-O5'-C5'	5.78	130.15	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	104	G	N3-C4-N9	-5.78	122.53	126.00
1	N	1248	A	N1-C2-N3	5.78	132.19	129.30
1	N	346	G	N1-C2-N3	-5.78	120.43	123.90
1	N	365	U	C2-N3-C4	5.78	130.47	127.00
1	N	988	G	N1-C2-N3	-5.78	120.43	123.90
1	N	161	A	N9-C4-C5	-5.78	103.49	105.80
1	N	262	A	C1'-O4'-C4'	-5.78	105.28	109.90
1	N	944	G	C6-C5-N7	-5.78	126.93	130.40
1	N	797	C	O4'-C1'-N1	5.78	112.82	108.20
1	N	1112	C	C2-N3-C4	5.78	122.79	119.90
1	N	1133	G	C2-N3-C4	5.78	114.79	111.90
1	N	393	A	C4'-C3'-C2'	-5.78	96.82	102.60
1	N	608	A	N1-C2-N3	5.78	132.19	129.30
1	N	664	G	O4'-C4'-C3'	5.78	110.72	106.10
1	N	763	G	C2-N3-C4	-5.78	109.01	111.90
1	N	1178	G	N3-C2-N2	5.78	123.94	119.90
1	N	1233	G	C4-N9-C1'	5.78	134.01	126.50
1	N	1397	C	O4'-C1'-N1	5.78	112.82	108.20
1	N	1420	U	C1'-O4'-C4'	-5.78	105.28	109.90
1	N	1478	U	C6-N1-C2	5.78	124.47	121.00
1	N	1311	A	C4-C5-N7	-5.77	107.81	110.70
1	N	1438	G	N7-C8-N9	5.77	115.99	113.10
1	N	1095	U	N1-C2-O2	5.77	126.84	122.80
1	N	1173	U	C2-N3-C4	5.77	130.46	127.00
1	N	1505	G	N3-C4-C5	-5.77	125.71	128.60
1	N	377	G	C8-N9-C4	-5.77	104.09	106.40
1	N	1492	A	C5-C6-N1	-5.77	114.81	117.70
1	N	224	U	C4-C5-C6	5.77	123.16	119.70
1	N	532	A	C5'-C4'-C3'	5.77	125.23	116.00
1	N	1151	A	N7-C8-N9	-5.77	110.92	113.80
1	N	1424	U	C6-N1-C1'	-5.77	113.12	121.20
1	N	713	G	N3-C2-N2	5.77	123.94	119.90
1	N	746	A	N7-C8-N9	5.77	116.68	113.80
1	N	1003	G	P-O3'-C3'	5.77	126.62	119.70
1	N	1032	G	C6-C5-N7	-5.77	126.94	130.40
1	N	253	A	C2-N3-C4	-5.77	107.72	110.60
1	N	433	G	O4'-C1'-N9	5.77	112.81	108.20
1	N	462	G	C6-C5-N7	-5.76	126.94	130.40
1	N	800	G	C5'-C4'-C3'	-5.76	106.78	116.00
1	N	1248	A	P-O5'-C5'	5.76	130.12	120.90
1	N	1359	C	N3-C4-C5	-5.76	119.59	121.90
1	N	1398	A	N1-C2-N3	-5.76	126.42	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	26	A	C6-N1-C2	-5.76	115.14	118.60
1	N	1215	G	C6-N1-C2	5.76	128.56	125.10
1	N	1505	G	P-O3'-C3'	-5.76	112.78	119.70
1	N	352	C	C5'-C4'-C3'	-5.76	106.78	116.00
1	N	1242	G	N7-C8-N9	-5.76	110.22	113.10
1	N	239	U	C5'-C4'-C3'	-5.76	106.79	116.00
1	N	683	G	C5-C6-O6	-5.76	125.14	128.60
1	N	746	A	C4-C5-C6	5.76	119.88	117.00
1	N	955	U	C5-C6-N1	5.76	125.58	122.70
1	N	1190	G	C5-N7-C8	5.76	107.18	104.30
1	N	1400	C	N3-C4-N4	5.76	122.03	118.00
1	N	1056	U	O4'-C1'-N1	5.76	112.81	108.20
1	N	1234	C	C5'-C4'-O4'	5.76	116.01	109.10
1	N	1239	A	C5-N7-C8	5.76	106.78	103.90
1	N	296	U	N3-C4-O4	5.76	123.43	119.40
1	N	376	G	OP1-P-OP2	-5.76	110.96	119.60
1	N	916	U	C2-N3-C4	5.76	130.45	127.00
1	N	1148	U	N1-C2-N3	5.76	118.35	114.90
1	N	1370	G	C4-C5-N7	5.76	113.10	110.80
1	N	174	A	C6-N1-C2	5.75	122.05	118.60
1	N	391	G	C5-C6-O6	-5.75	125.15	128.60
1	N	774	G	N3-C4-N9	-5.75	122.55	126.00
1	N	843	U	C5'-C4'-O4'	5.75	116.00	109.10
1	N	1044	A	C6-C5-N7	-5.75	128.27	132.30
1	N	1417	G	C8-N9-C1'	-5.75	119.52	127.00
1	N	1211	U	C3'-C2'-C1'	-5.75	96.90	101.50
1	N	1380	U	O4'-C1'-N1	5.75	112.80	108.20
1	N	1531	A	C4-N9-C1'	5.75	136.65	126.30
1	N	9	G	C6-N1-C2	5.75	128.55	125.10
1	N	305	G	C5-C6-N1	-5.75	108.63	111.50
1	N	366	A	C5-N7-C8	5.75	106.77	103.90
1	N	836	G	N3-C4-C5	5.75	131.47	128.60
1	N	839	C	N3-C4-C5	-5.75	119.60	121.90
1	N	1117	A	P-O5'-C5'	5.75	130.10	120.90
1	N	1531	A	N3-C4-N9	5.75	132.00	127.40
1	N	656	G	C2-N3-C4	5.75	114.77	111.90
1	N	661	G	C6-C5-N7	-5.75	126.95	130.40
1	N	872	A	N3-C4-N9	5.75	132.00	127.40
1	N	993	G	C4-N9-C1'	5.75	133.97	126.50
1	N	1000	A	C1'-O4'-C4'	5.75	114.50	109.90
1	N	1009	U	C6-N1-C2	5.75	124.45	121.00
1	N	1150	A	C2-N3-C4	-5.75	107.73	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1189	U	C5-C4-O4	-5.75	122.45	125.90
1	N	1267	C	C4'-C3'-C2'	-5.75	96.85	102.60
1	N	1370	G	C5-C6-O6	-5.75	125.15	128.60
1	N	100	G	N1-C2-N3	-5.75	120.45	123.90
1	N	172	A	C8-N9-C4	-5.74	103.50	105.80
1	N	347	G	O4'-C1'-N9	5.74	112.80	108.20
1	N	854	U	C4'-C3'-C2'	-5.74	96.86	102.60
1	N	876	C	N1-C2-O2	-5.74	115.45	118.90
1	N	1046	A	C5-N7-C8	5.74	106.77	103.90
1	N	1075	U	C3'-C2'-C1'	-5.74	96.91	101.50
1	N	1199	U	N1-C2-O2	-5.74	118.78	122.80
1	N	1261	A	C5-N7-C8	5.74	106.77	103.90
1	N	1278	G	N3-C4-C5	-5.74	125.73	128.60
1	N	607	A	C5-C6-N1	-5.74	114.83	117.70
1	N	934	C	O4'-C1'-N1	5.74	112.79	108.20
1	N	1165	U	C4'-C3'-C2'	-5.74	96.86	102.60
1	N	293	G	C2-N3-C4	5.74	114.77	111.90
1	N	381	C	C5-C6-N1	5.74	123.87	121.00
1	N	1390	U	C5-C4-O4	-5.74	122.45	125.90
1	N	179	A	C5-C6-N1	-5.74	114.83	117.70
1	N	840	C	C4-C5-C6	5.74	120.27	117.40
1	N	845	A	C5-N7-C8	5.74	106.77	103.90
1	N	957	U	C4'-C3'-C2'	-5.74	96.86	102.60
1	N	961	U	N1-C1'-C2'	-5.74	105.69	112.00
1	N	1325	C	N3-C2-O2	5.74	125.92	121.90
1	N	21	G	C5-C6-N1	-5.74	108.63	111.50
1	N	893	C	N3-C4-C5	-5.74	119.61	121.90
1	N	937	A	C8-N9-C4	-5.74	103.50	105.80
1	N	1323	G	C4'-C3'-C2'	-5.74	96.86	102.60
1	N	182	A	C4'-C3'-C2'	5.74	108.34	102.60
1	N	1006	G	C8-N9-C4	5.74	108.69	106.40
1	N	1065	U	C3'-C2'-C1'	-5.73	96.91	101.50
1	N	1259	C	N3-C4-C5	-5.73	119.61	121.90
1	N	167	A	N7-C8-N9	-5.73	110.93	113.80
1	N	284	C	C4-C5-C6	-5.73	114.53	117.40
1	N	307	C	N1-C2-N3	5.73	123.21	119.20
1	N	428	G	C2-N3-C4	-5.73	109.03	111.90
1	N	680	C	N3-C2-O2	5.73	125.91	121.90
1	N	963	G	C6-N1-C2	5.73	128.54	125.10
1	N	994	A	C4-C5-N7	-5.73	107.83	110.70
1	N	1221	G	N3-C4-N9	5.73	129.44	126.00
1	N	624	C	C5-C4-N4	-5.73	116.19	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1019	A	O4'-C1'-N9	5.73	112.78	108.20
1	N	1488	G	P-O3'-C3'	-5.73	112.82	119.70
1	N	915	A	C4-C5-C6	5.73	119.86	117.00
1	N	20	U	O4'-C1'-N1	5.73	112.78	108.20
1	N	975	A	C5-C6-N1	-5.73	114.84	117.70
1	N	1339	A	C5-N7-C8	-5.73	101.04	103.90
1	N	666	G	N7-C8-N9	5.73	115.96	113.10
1	N	997	U	C4-C5-C6	5.73	123.14	119.70
1	N	329	A	N3-C4-C5	-5.72	122.79	126.80
1	N	382	A	C8-N9-C4	-5.72	103.51	105.80
1	N	512	U	O4'-C1'-N1	5.72	112.78	108.20
1	N	553	A	N3-C4-N9	5.72	131.98	127.40
1	N	554	A	O4'-C4'-C3'	-5.72	98.28	104.00
1	N	848	C	C2-N3-C4	5.72	122.76	119.90
1	N	1006	G	C4-N9-C1'	-5.72	119.06	126.50
1	N	1276	G	C4-N9-C1'	5.72	133.94	126.50
1	N	1342	C	C2-N3-C4	-5.72	117.04	119.90
1	N	536	C	C4-C5-C6	5.72	120.26	117.40
1	N	643	C	N3-C4-N4	5.72	122.01	118.00
1	N	944	G	C8-N9-C1'	-5.72	119.56	127.00
1	N	1408	A	C5-C6-N6	-5.72	119.12	123.70
1	N	578	C	P-O3'-C3'	-5.72	112.83	119.70
1	N	1225	A	C4-C5-N7	-5.72	107.84	110.70
1	N	1432	G	C5-N7-C8	5.72	107.16	104.30
1	N	12	U	C5-C6-N1	5.72	125.56	122.70
1	N	169	C	C4-C5-C6	5.72	120.26	117.40
1	N	151	A	O4'-C1'-C2'	-5.72	100.08	105.80
1	N	1056	U	C4-C5-C6	-5.72	116.27	119.70
1	N	203	G	C1'-O4'-C4'	-5.72	105.33	109.90
1	N	220	G	N9-C4-C5	5.72	107.69	105.40
1	N	238	A	N1-C2-N3	-5.72	126.44	129.30
1	N	483	C	C4'-C3'-C2'	5.72	108.32	102.60
1	N	835	U	C6-N1-C2	-5.72	117.57	121.00
1	N	866	C	N1-C2-N3	-5.72	115.20	119.20
1	N	1097	C	C6-N1-C1'	-5.72	113.94	120.80
1	N	229	U	P-O5'-C5'	5.71	130.04	120.90
1	N	696	A	C6-C5-N7	-5.71	128.30	132.30
1	N	1528	U	N1-C1'-C2'	-5.71	105.71	112.00
1	N	219	U	P-O3'-C3'	5.71	126.56	119.70
1	N	415	A	O4'-C1'-N9	5.71	112.77	108.20
1	N	570	G	C8-N9-C4	-5.71	104.11	106.40
1	N	202	G	C5'-C4'-C3'	5.71	125.14	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	432	A	P-O5'-C5'	5.71	130.04	120.90
1	N	727	G	N3-C2-N2	5.71	123.90	119.90
1	N	859	G	C5'-C4'-O4'	5.71	115.95	109.10
1	N	1137	C	C2-N3-C4	5.71	122.76	119.90
1	N	19	A	C5-C6-N6	-5.71	119.13	123.70
1	N	134	G	P-O3'-C3'	-5.71	112.85	119.70
1	N	533	A	N3-C4-C5	-5.71	122.80	126.80
1	N	1393	U	C6-N1-C1'	-5.71	113.21	121.20
1	N	123	U	C5-C4-O4	-5.71	122.47	125.90
1	N	718	A	N9-C4-C5	-5.71	103.52	105.80
1	N	837	U	C6-N1-C2	-5.71	117.58	121.00
1	N	925	G	C8-N9-C1'	-5.71	119.58	127.00
1	N	1091	U	N1-C2-O2	5.71	126.80	122.80
1	N	1227	A	C5'-C4'-C3'	-5.71	106.87	116.00
1	N	1306	A	C6-N1-C2	-5.71	115.17	118.60
1	N	1368	A	C6-C5-N7	-5.71	128.30	132.30
1	N	849	G	N3-C4-N9	5.71	129.42	126.00
1	N	969	A	P-O3'-C3'	-5.71	112.85	119.70
1	N	2	A	C1'-O4'-C4'	5.71	114.46	109.90
1	N	278	G	O4'-C1'-N9	5.71	112.76	108.20
1	N	520	A	N3-C4-C5	-5.71	122.81	126.80
1	N	578	C	N1-C1'-C2'	-5.71	105.72	112.00
1	N	770	C	O3'-P-O5'	-5.71	93.16	104.00
1	N	1262	C	C2-N3-C4	5.71	122.75	119.90
1	N	125	U	O4'-C1'-N1	5.70	112.76	108.20
1	N	466	A	N1-C2-N3	-5.70	126.45	129.30
1	N	880	C	N1-C2-O2	-5.70	115.48	118.90
1	N	674	G	C4'-C3'-C2'	-5.70	96.90	102.60
1	N	1145	A	C6-N1-C2	-5.70	115.18	118.60
1	N	161	A	N3-C4-N9	5.70	131.96	127.40
1	N	285	C	C2-N3-C4	5.70	122.75	119.90
1	N	686	U	O4'-C1'-C2'	-5.70	100.10	105.80
1	N	1024	G	O4'-C1'-N9	5.70	112.76	108.20
1	N	1042	A	C6-C5-N7	-5.70	128.31	132.30
1	N	1509	C	C6-N1-C2	-5.70	118.02	120.30
1	N	163	C	C4-C5-C6	5.70	120.25	117.40
1	N	214	C	C6-N1-C2	5.70	122.58	120.30
1	N	397	A	C4-C5-C6	5.70	119.85	117.00
1	N	783	C	C5-C4-N4	-5.70	116.21	120.20
1	N	873	A	O4'-C1'-N9	5.70	112.76	108.20
1	N	1060	U	N1-C2-N3	-5.70	111.48	114.90
1	N	1477	U	O4'-C1'-N1	5.70	112.76	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	470	C	N3-C4-C5	-5.70	119.62	121.90
1	N	582	C	O5'-C5'-C4'	-5.70	100.88	111.70
1	N	1094	G	N3-C2-N2	5.70	123.89	119.90
1	N	1206	G	N3-C4-C5	-5.70	125.75	128.60
1	N	28	A	C5-N7-C8	5.69	106.75	103.90
1	N	120	A	N7-C8-N9	5.69	116.65	113.80
1	N	361	G	N3-C4-C5	5.69	131.45	128.60
1	N	452	A	N3-C4-C5	-5.69	122.81	126.80
1	N	1090	U	C1'-O4'-C4'	-5.69	105.34	109.90
1	N	1101	A	C5-C6-N6	-5.69	119.14	123.70
1	N	37	U	P-O5'-C5'	5.69	130.01	120.90
1	N	148	G	N3-C2-N2	5.69	123.88	119.90
1	N	277	C	N3-C4-C5	-5.69	119.62	121.90
1	N	200	G	N1-C2-N2	-5.69	111.08	116.20
1	N	300	A	C6-C5-N7	-5.69	128.32	132.30
1	N	311	C	OP1-P-OP2	-5.69	111.06	119.60
1	N	607	A	O4'-C1'-N9	5.69	112.75	108.20
1	N	1278	G	C3'-C2'-C1'	-5.69	96.95	101.50
1	N	1310	G	N1-C6-O6	5.69	123.31	119.90
1	N	490	C	C4-C5-C6	5.69	120.24	117.40
1	N	1067	A	C5-C6-N1	-5.69	114.86	117.70
1	N	293	G	N3-C2-N2	5.69	123.88	119.90
1	N	559	A	O4'-C1'-N9	5.69	112.75	108.20
1	N	570	G	C5-N7-C8	-5.69	101.46	104.30
1	N	709	U	P-O5'-C5'	5.69	130.00	120.90
1	N	864	A	C4-C5-C6	5.69	119.84	117.00
1	N	1240	U	O4'-C1'-C2'	-5.69	100.11	105.80
1	N	109	A	C6-N1-C2	-5.69	115.19	118.60
1	N	1099	G	O4'-C1'-N9	5.69	112.75	108.20
1	N	106	C	N3-C4-N4	5.68	121.98	118.00
1	N	138	G	C5'-C4'-C3'	5.68	125.09	116.00
1	N	536	C	N3-C4-C5	-5.68	119.63	121.90
1	N	794	A	O4'-C4'-C3'	-5.68	98.31	104.00
1	N	1050	G	C2-N3-C4	5.68	114.74	111.90
1	N	1176	A	C8-N9-C4	5.68	108.07	105.80
1	N	1205	U	O4'-C1'-N1	5.68	112.75	108.20
1	N	1362	A	C6-C5-N7	-5.68	128.32	132.30
1	N	168	G	C5-C6-O6	-5.68	125.19	128.60
1	N	464	U	N3-C4-O4	5.68	123.38	119.40
1	N	505	G	N3-C2-N2	5.68	123.88	119.90
1	N	655	A	C4-N9-C1'	5.68	136.53	126.30
1	N	718	A	C6-N1-C2	5.68	122.01	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1360	A	C2-N3-C4	-5.68	107.76	110.60
1	N	1412	C	N3-C4-C5	-5.68	119.63	121.90
1	N	1439	G	C5-C6-O6	-5.68	125.19	128.60
1	N	336	A	C2-N3-C4	5.68	113.44	110.60
1	N	1506	U	C4'-C3'-C2'	5.68	108.28	102.60
1	N	78	A	C5-C6-N1	-5.68	114.86	117.70
1	N	722	G	C4-C5-C6	5.68	122.21	118.80
1	N	999	C	O4'-C4'-C3'	-5.68	98.32	104.00
1	N	1227	A	N3-C4-N9	5.68	131.94	127.40
1	N	1427	C	N3-C2-O2	5.68	125.88	121.90
1	N	264	C	N3-C2-O2	-5.68	117.92	121.90
1	N	339	C	C6-N1-C2	-5.68	118.03	120.30
1	N	1074	G	C8-N9-C4	-5.68	104.13	106.40
1	N	222	C	C5-C4-N4	-5.68	116.23	120.20
1	N	224	U	C5-C4-O4	5.68	129.31	125.90
1	N	593	U	C4'-C3'-C2'	-5.68	96.92	102.60
1	N	911	U	P-O5'-C5'	5.68	129.98	120.90
1	N	973	G	C6-N1-C2	5.68	128.51	125.10
1	N	1170	A	C4-C5-C6	5.68	119.84	117.00
1	N	1346	A	C6-C5-N7	-5.68	128.33	132.30
1	N	329	A	C8-N9-C4	-5.67	103.53	105.80
1	N	439	U	O4'-C4'-C3'	-5.67	98.33	104.00
1	N	569	C	C4'-C3'-C2'	5.67	108.28	102.60
1	N	603	U	C4-C5-C6	5.67	123.11	119.70
1	N	824	G	N3-C4-C5	5.67	131.44	128.60
1	N	973	G	C4-C5-C6	5.67	122.20	118.80
1	N	844	G	C4-C5-C6	5.67	122.20	118.80
1	N	898	G	C2-N3-C4	-5.67	109.06	111.90
1	N	1047	G	C3'-C2'-C1'	5.67	106.04	101.50
1	N	1270	G	C8-N9-C1'	-5.67	119.63	127.00
1	N	1459	G	P-O3'-C3'	-5.67	112.89	119.70
1	N	148	G	N9-C1'-C2'	-5.67	105.76	112.00
1	N	717	U	C2-N1-C1'	5.67	124.50	117.70
1	N	1089	G	C5'-C4'-C3'	-5.67	106.93	116.00
1	N	500	G	C5'-C4'-C3'	-5.67	106.93	116.00
1	N	702	A	C3'-C2'-C1'	5.67	106.03	101.50
1	N	813	U	N3-C4-O4	5.67	123.37	119.40
1	N	373	A	N9-C4-C5	-5.67	103.53	105.80
1	N	525	C	N3-C4-C5	5.67	124.17	121.90
1	N	551	U	N3-C2-O2	5.67	126.17	122.20
1	N	861	G	C4-C5-C6	5.67	122.20	118.80
1	N	907	A	N9-C1'-C2'	5.67	121.37	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1337	G	P-O3'-C3'	-5.67	112.90	119.70
1	N	1350	A	C5-C6-N1	-5.67	114.87	117.70
1	N	1389	C	P-O5'-C5'	-5.67	111.83	120.90
1	N	201	G	C3'-C2'-C1'	5.67	106.03	101.50
1	N	203	G	N3-C4-N9	-5.67	122.60	126.00
1	N	837	U	N3-C4-O4	5.67	123.37	119.40
1	N	200	G	C8-N9-C1'	-5.66	119.64	127.00
1	N	1069	C	O5'-C5'-C4'	-5.66	100.94	111.70
1	N	1251	A	C5-C6-N6	-5.66	119.17	123.70
1	N	1297	G	C5-N7-C8	5.66	107.13	104.30
1	N	619	U	N3-C4-O4	5.66	123.36	119.40
1	N	817	C	C5'-C4'-O4'	5.66	115.89	109.10
1	N	1010	U	N3-C2-O2	5.66	126.16	122.20
1	N	1156	G	N1-C2-N3	-5.66	120.50	123.90
1	N	1029	U	C6-N1-C2	-5.66	117.60	121.00
1	N	15	G	C2-N3-C4	5.66	114.73	111.90
1	N	342	C	C4-C5-C6	5.66	120.23	117.40
1	N	704	A	C1'-O4'-C4'	-5.66	105.37	109.90
1	N	772	U	N3-C4-C5	-5.66	111.20	114.60
1	N	1038	C	C5-C4-N4	-5.66	116.24	120.20
1	N	1229	A	C5-C6-N6	-5.66	119.17	123.70
1	N	1374	A	N3-C4-C5	-5.66	122.84	126.80
1	N	134	G	C6-C5-N7	-5.66	127.01	130.40
1	N	140	U	N3-C2-O2	5.66	126.16	122.20
1	N	57	G	P-O3'-C3'	-5.66	112.91	119.70
1	N	274	A	N9-C4-C5	5.66	108.06	105.80
1	N	424	G	C6-N1-C2	5.66	128.49	125.10
1	N	568	G	N1-C6-O6	5.66	123.29	119.90
1	N	571	U	C3'-C2'-C1'	5.66	106.02	101.50
1	N	704	A	C5-C6-N1	5.66	120.53	117.70
1	N	1043	G	C2-N3-C4	5.66	114.73	111.90
1	N	1345	U	O3'-P-O5'	-5.66	93.25	104.00
1	N	156	C	N1-C2-O2	-5.65	115.51	118.90
1	N	224	U	N3-C4-O4	5.65	123.36	119.40
1	N	874	G	P-O5'-C5'	5.65	129.94	120.90
1	N	927	G	C6-N1-C2	5.65	128.49	125.10
1	N	1049	U	C2-N3-C4	-5.65	123.61	127.00
1	N	92	U	N3-C4-C5	-5.65	111.21	114.60
1	N	210	C	N3-C4-C5	-5.65	119.64	121.90
1	N	1396	A	O4'-C1'-N9	5.65	112.72	108.20
1	N	355	C	C3'-C2'-C1'	-5.65	96.98	101.50
1	N	540	G	N9-C4-C5	5.65	107.66	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	567	G	C6-C5-N7	-5.65	127.01	130.40
1	N	941	G	C8-N9-C4	-5.65	104.14	106.40
1	N	166	U	O4'-C1'-N1	5.65	112.72	108.20
1	N	293	G	N3-C4-C5	-5.65	125.78	128.60
1	N	421	U	O4'-C1'-N1	5.65	112.72	108.20
1	N	949	A	C3'-C2'-C1'	5.65	106.02	101.50
1	N	676	A	C4-C5-C6	5.65	119.82	117.00
1	N	852	G	C4'-C3'-C2'	-5.65	96.95	102.60
1	N	93	U	C4'-C3'-O3'	5.64	124.29	113.00
1	N	1036	A	C8-N9-C4	5.64	108.06	105.80
1	N	223	A	C5'-C4'-C3'	-5.64	106.97	116.00
1	N	244	U	O4'-C1'-C2'	-5.64	100.16	105.80
1	N	332	G	C1'-O4'-C4'	-5.64	105.39	109.90
1	N	407	U	C2-N1-C1'	5.64	124.47	117.70
1	N	535	A	C6-C5-N7	-5.64	128.35	132.30
1	N	568	G	C5-C6-O6	-5.64	125.22	128.60
1	N	37	U	O4'-C1'-N1	5.64	112.71	108.20
1	N	70	U	O4'-C1'-N1	5.64	112.71	108.20
1	N	221	C	P-O5'-C5'	5.64	129.93	120.90
1	N	696	A	N3-C4-N9	5.64	131.91	127.40
1	N	890	G	C4'-C3'-C2'	-5.64	96.96	102.60
1	N	598	U	O4'-C1'-N1	5.64	112.71	108.20
1	N	1468	A	N1-C6-N6	5.64	121.98	118.60
1	N	385	C	C5-C4-N4	-5.64	116.25	120.20
1	N	638	U	N3-C4-O4	5.64	123.35	119.40
1	N	1374	A	O3'-P-O5'	-5.64	93.29	104.00
1	N	74	A	C5'-C4'-O4'	-5.64	102.34	109.10
1	N	143	A	C4'-C3'-C2'	5.64	108.24	102.60
1	N	1027	C	O5'-C5'-C4'	-5.64	100.99	111.70
1	N	1304	G	C2-N3-C4	5.64	114.72	111.90
1	N	200	G	N3-C4-N9	5.63	129.38	126.00
1	N	951	G	C2-N3-C4	5.63	114.72	111.90
1	N	1203	C	N3-C2-O2	5.63	125.84	121.90
1	N	1331	G	O5'-P-OP1	-5.63	100.63	105.70
1	N	1336	C	C2'-C3'-O3'	5.63	122.72	113.70
1	N	1405	G	C5'-C4'-O4'	-5.63	102.34	109.10
1	N	1530	G	N3-C2-N2	5.63	123.84	119.90
1	N	703	G	P-O5'-C5'	5.63	129.91	120.90
1	N	1136	C	N3-C4-N4	5.63	121.94	118.00
1	N	1392	G	C5'-C4'-C3'	5.63	125.01	116.00
1	N	577	G	C1'-O4'-C4'	5.63	114.41	109.90
1	N	727	G	C5-C6-N1	-5.63	108.68	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	996	A	C8-N9-C4	-5.63	103.55	105.80
1	N	1268	G	C5-C6-N1	-5.63	108.68	111.50
1	N	1441	A	C4-C5-C6	5.63	119.81	117.00
1	N	1521	C	N3-C4-C5	-5.63	119.65	121.90
1	N	8	A	N1-C2-N3	5.63	132.12	129.30
1	N	870	U	N3-C4-C5	-5.63	111.22	114.60
1	N	1007	U	P-O3'-C3'	5.63	126.46	119.70
1	N	1373	G	C5-N7-C8	-5.63	101.48	104.30
1	N	1511	G	N3-C4-C5	-5.63	125.78	128.60
1	N	204	G	N7-C8-N9	5.63	115.91	113.10
1	N	260	G	C5-N7-C8	-5.63	101.48	104.30
1	N	9	G	N7-C8-N9	-5.63	110.29	113.10
1	N	34	C	O4'-C4'-C3'	-5.63	98.37	104.00
1	N	93	U	C1'-O4'-C4'	-5.63	105.40	109.90
1	N	115	G	C2-N3-C4	5.63	114.71	111.90
1	N	323	U	C2-N3-C4	5.63	130.38	127.00
1	N	435	A	O4'-C1'-N9	5.63	112.70	108.20
1	N	750	C	N3-C4-C5	-5.63	119.65	121.90
1	N	1000	A	P-O5'-C5'	5.63	129.90	120.90
1	N	605	U	N1-C2-O2	-5.62	118.86	122.80
1	N	650	G	C5'-C4'-C3'	-5.62	107.00	116.00
1	N	1218	C	N1-C2-O2	-5.62	115.53	118.90
1	N	416	G	N1-C6-O6	5.62	123.27	119.90
1	N	544	G	C6-C5-N7	-5.62	127.03	130.40
1	N	53	A	C6-C5-N7	-5.62	128.37	132.30
1	N	128	G	N9-C4-C5	5.62	107.65	105.40
1	N	738	C	C4-C5-C6	5.62	120.21	117.40
1	N	745	G	C5-N7-C8	5.62	107.11	104.30
1	N	1135	U	N3-C4-O4	5.62	123.33	119.40
1	N	318	G	C1'-O4'-C4'	5.62	114.39	109.90
1	N	550	G	O4'-C1'-N9	5.62	112.69	108.20
1	N	885	G	C2-N3-C4	5.62	114.71	111.90
1	N	1153	G	C5'-C4'-O4'	-5.62	102.36	109.10
1	N	1315	U	C4-C5-C6	-5.62	116.33	119.70
1	N	8	A	N9-C4-C5	-5.62	103.55	105.80
1	N	748	G	P-O3'-C3'	5.62	126.44	119.70
1	N	815	A	C5-C6-N6	-5.62	119.21	123.70
1	N	1303	C	C6-N1-C1'	5.62	127.54	120.80
1	N	1496	C	C6-N1-C2	5.62	122.55	120.30
1	N	41	G	C3'-C2'-C1'	5.61	105.99	101.50
1	N	209	U	C6-N1-C1'	5.61	129.06	121.20
1	N	592	G	O4'-C1'-N9	5.61	112.69	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1005	A	C5-C6-N6	-5.61	119.21	123.70
1	N	1154	G	C4-C5-C6	5.61	122.17	118.80
1	N	134	G	C2'-C3'-O3'	5.61	122.68	113.70
1	N	240	G	P-O3'-C3'	-5.61	112.97	119.70
1	N	445	G	C6-C5-N7	-5.61	127.03	130.40
1	N	42	G	N3-C4-N9	5.61	129.37	126.00
1	N	81	A	C5-C6-N6	-5.61	119.21	123.70
1	N	232	G	N3-C4-N9	5.61	129.37	126.00
1	N	296	U	C6-N1-C1'	-5.61	113.34	121.20
1	N	564	C	C1'-O4'-C4'	5.61	114.39	109.90
1	N	1062	U	P-O5'-C5'	5.61	129.88	120.90
1	N	311	C	P-O3'-C3'	5.61	126.43	119.70
1	N	1517	G	C4-C5-N7	5.61	113.04	110.80
1	N	140	U	C5-C4-O4	-5.61	122.54	125.90
1	N	218	U	C5-C6-N1	5.61	125.50	122.70
1	N	628	G	C4-N9-C1'	5.61	133.79	126.50
1	N	647	C	C4-C5-C6	-5.61	114.60	117.40
1	N	1062	U	C1'-O4'-C4'	5.61	114.39	109.90
1	N	1327	C	N3-C4-C5	-5.61	119.66	121.90
1	N	1511	G	N3-C2-N2	5.61	123.83	119.90
1	N	221	C	N3-C4-N4	5.61	121.92	118.00
1	N	382	A	C5'-C4'-C3'	5.61	124.97	116.00
1	N	853	C	N1-C2-N3	-5.61	115.28	119.20
1	N	978	A	C4-N9-C1'	5.61	136.39	126.30
1	N	1437	A	O4'-C1'-N9	5.60	112.68	108.20
1	N	3	A	C4-C5-C6	5.60	119.80	117.00
1	N	459	A	C5'-C4'-O4'	5.60	115.82	109.10
1	N	467	U	O4'-C1'-N1	5.60	112.68	108.20
1	N	492	C	OP2-P-O3'	5.60	117.52	105.20
1	N	700	G	C4-C5-C6	5.60	122.16	118.80
1	N	922	G	C5'-C4'-O4'	5.60	115.82	109.10
1	N	1163	A	C5'-C4'-O4'	5.60	115.82	109.10
1	N	1220	G	C2-N3-C4	5.60	114.70	111.90
1	N	462	G	C4-C5-C6	5.60	122.16	118.80
1	N	1143	G	N1-C2-N3	-5.60	120.54	123.90
1	N	126	G	C5-C6-O6	-5.60	125.24	128.60
1	N	166	U	P-O5'-C5'	5.60	129.86	120.90
1	N	337	G	C6-C5-N7	-5.60	127.04	130.40
1	N	371	A	C8-N9-C4	-5.60	103.56	105.80
1	N	417	G	C2-N3-C4	5.60	114.70	111.90
1	N	509	A	N7-C8-N9	-5.60	111.00	113.80
1	N	1215	G	C3'-C2'-C1'	5.60	105.98	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1240	U	N3-C4-C5	-5.60	111.24	114.60
1	N	1519	A	N3-C4-C5	-5.60	122.88	126.80
1	N	65	A	C8-N9-C4	5.60	108.04	105.80
1	N	223	A	C5-C6-N6	-5.60	119.22	123.70
1	N	228	A	C4-C5-C6	5.60	119.80	117.00
1	N	332	G	C8-N9-C1'	5.60	134.28	127.00
1	N	527	G	N3-C2-N2	5.60	123.82	119.90
1	N	583	A	N3-C4-C5	-5.60	122.88	126.80
1	N	637	C	N3-C4-N4	5.60	121.92	118.00
1	N	1365	G	C4-C5-C6	5.60	122.16	118.80
1	N	388	G	C6-C5-N7	-5.60	127.04	130.40
1	N	734	G	N1-C2-N3	-5.60	120.54	123.90
1	N	241	G	O4'-C1'-N9	5.59	112.68	108.20
1	N	259	G	C6-N1-C2	-5.59	121.74	125.10
1	N	705	G	C6-C5-N7	-5.59	127.04	130.40
1	N	724	G	N3-C2-N2	5.59	123.82	119.90
1	N	584	G	C8-N9-C4	-5.59	104.16	106.40
1	N	1062	U	C5-C4-O4	-5.59	122.54	125.90
1	N	1517	G	N1-C2-N3	-5.59	120.54	123.90
1	N	544	G	C3'-C2'-C1'	5.59	105.97	101.50
1	N	889	A	N3-C4-C5	-5.59	122.89	126.80
1	N	1309	G	C8-N9-C4	5.59	108.64	106.40
1	N	1411	C	N3-C4-N4	5.59	121.91	118.00
1	N	445	G	C5'-C4'-C3'	-5.59	107.06	116.00
1	N	663	A	C1'-O4'-C4'	5.59	114.37	109.90
1	N	1142	G	C5-C6-O6	-5.59	125.25	128.60
1	N	1433	A	C5-C6-N6	-5.59	119.23	123.70
1	N	410	G	C6-N1-C2	5.59	128.45	125.10
1	N	1114	C	C6-N1-C2	-5.59	118.06	120.30
1	N	13	U	N3-C4-O4	5.59	123.31	119.40
1	N	21	G	C4-C5-C6	5.59	122.15	118.80
1	N	25	C	C5-C6-N1	-5.59	118.21	121.00
1	N	1019	A	C4-C5-N7	-5.59	107.91	110.70
1	N	1099	G	C4-C5-C6	5.59	122.15	118.80
1	N	1175	G	C5-C6-O6	-5.59	125.25	128.60
1	N	1227	A	C8-N9-C1'	-5.59	117.65	127.70
1	N	171	A	C1'-O4'-C4'	-5.58	105.43	109.90
1	N	238	A	C5'-C4'-C3'	-5.58	107.07	116.00
1	N	362	G	C4-C5-C6	5.58	122.15	118.80
1	N	496	A	C2-N3-C4	-5.58	107.81	110.60
1	N	781	A	N7-C8-N9	5.58	116.59	113.80
1	N	1396	A	N3-C4-C5	-5.58	122.89	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	121	U	C2-N3-C4	5.58	130.35	127.00
1	N	706	A	C5-N7-C8	5.58	106.69	103.90
1	N	715	A	C5'-C4'-C3'	5.58	124.93	116.00
1	N	876	C	C2-N3-C4	5.58	122.69	119.90
1	N	1455	G	C2-N3-C4	-5.58	109.11	111.90
1	N	232	G	C4-C5-C6	5.58	122.15	118.80
1	N	283	U	P-O3'-C3'	-5.58	113.00	119.70
1	N	703	G	C4-N9-C1'	-5.58	119.25	126.50
1	N	1125	U	O4'-C1'-N1	5.58	112.66	108.20
1	N	470	C	C5-C6-N1	5.58	123.79	121.00
1	N	761	G	N3-C2-N2	5.58	123.81	119.90
1	N	1245	C	N1-C1'-C2'	-5.58	105.86	112.00
1	N	1320	C	C4-C5-C6	5.58	120.19	117.40
1	N	99	C	N3-C2-O2	-5.58	118.00	121.90
1	N	976	G	N9-C4-C5	5.58	107.63	105.40
1	N	59	A	C3'-C2'-C1'	5.58	105.96	101.50
1	N	212	G	N3-C2-N2	-5.58	116.00	119.90
1	N	278	G	C6-C5-N7	-5.58	127.06	130.40
1	N	483	C	P-O5'-C5'	5.58	129.82	120.90
1	N	682	G	C5-N7-C8	-5.58	101.51	104.30
1	N	887	G	C1'-O4'-C4'	-5.58	105.44	109.90
1	N	1160	G	N3-C2-N2	5.58	123.80	119.90
1	N	1445	U	P-O5'-C5'	5.58	129.82	120.90
1	N	108	G	N1-C2-N3	-5.57	120.56	123.90
1	N	319	G	C1'-O4'-C4'	-5.57	105.44	109.90
1	N	332	G	C4-N9-C1'	-5.57	119.25	126.50
1	N	554	A	C4'-C3'-C2'	-5.57	97.03	102.60
1	N	708	C	C2-N1-C1'	5.57	124.93	118.80
1	N	727	G	C4-C5-N7	-5.57	108.57	110.80
1	N	804	U	C5'-C4'-O4'	5.57	115.79	109.10
1	N	996	A	C4-C5-N7	-5.57	107.91	110.70
1	N	1110	A	C4-C5-N7	-5.57	107.91	110.70
1	N	505	G	C3'-C2'-C1'	-5.57	97.04	101.50
1	N	1420	U	C6-N1-C1'	-5.57	113.40	121.20
1	N	52	C	N3-C4-C5	-5.57	119.67	121.90
1	N	519	C	O4'-C1'-N1	5.57	112.66	108.20
1	N	911	U	C2-N3-C4	-5.57	123.66	127.00
1	N	985	C	C6-N1-C2	-5.57	118.07	120.30
1	N	1190	G	C2-N3-C4	5.57	114.69	111.90
1	N	1361	G	P-O3'-C3'	5.57	126.39	119.70
1	N	1439	G	N9-C4-C5	-5.57	103.17	105.40
1	N	964	A	C5-C6-N6	-5.57	119.25	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	497	G	N3-C4-C5	5.57	131.38	128.60
1	N	499	A	C5-N7-C8	5.57	106.68	103.90
1	N	1079	G	N7-C8-N9	-5.57	110.32	113.10
1	N	1244	G	P-O3'-C3'	5.57	126.38	119.70
1	N	142	G	C2-N3-C4	5.57	114.68	111.90
1	N	215	C	C4-C5-C6	-5.57	114.62	117.40
1	N	594	U	P-O3'-C3'	5.57	126.38	119.70
1	N	646	G	C4'-C3'-C2'	-5.57	97.03	102.60
1	N	678	U	N3-C2-O2	5.57	126.10	122.20
1	N	887	G	C4-C5-C6	5.57	122.14	118.80
1	N	958	A	N3-C4-C5	-5.57	122.90	126.80
1	N	1504	G	OP1-P-OP2	-5.57	111.25	119.60
1	N	1507	A	N1-C6-N6	5.57	121.94	118.60
1	N	119	A	C6-C5-N7	-5.56	128.41	132.30
1	N	573	A	C5-N7-C8	5.56	106.68	103.90
1	N	324	G	C5-C6-N1	-5.56	108.72	111.50
1	N	405	U	C6-N1-C2	-5.56	117.66	121.00
1	N	600	A	C5-N7-C8	5.56	106.68	103.90
1	N	715	A	C8-N9-C4	-5.56	103.58	105.80
1	N	850	U	N3-C4-O4	5.56	123.29	119.40
1	N	909	A	N3-C4-C5	-5.56	122.91	126.80
1	N	1518	A	C5'-C4'-C3'	5.56	124.90	116.00
1	N	247	G	N3-C2-N2	5.56	123.79	119.90
1	N	273	U	C2-N3-C4	-5.56	123.67	127.00
1	N	362	G	N7-C8-N9	-5.56	110.32	113.10
1	N	738	C	C2-N1-C1'	5.56	124.92	118.80
1	N	760	G	C8-N9-C1'	-5.56	119.77	127.00
1	N	982	U	C1'-O4'-C4'	5.56	114.35	109.90
1	N	1340	A	C2-N3-C4	5.56	113.38	110.60
1	N	521	G	C5-C6-N1	-5.56	108.72	111.50
1	N	705	G	N3-C4-N9	5.56	129.34	126.00
1	N	792	A	C4-C5-C6	5.56	119.78	117.00
1	N	849	G	N1-C2-N3	-5.56	120.56	123.90
1	N	1436	U	C5'-C4'-O4'	-5.56	102.43	109.10
1	N	1491	G	N3-C4-C5	5.56	131.38	128.60
1	N	452	A	C5-N7-C8	5.56	106.68	103.90
1	N	924	C	C5'-C4'-C3'	5.56	124.89	116.00
1	N	1087	G	N1-C2-N2	5.56	121.20	116.20
1	N	124	C	C4'-C3'-C2'	-5.55	97.05	102.60
1	N	212	G	O5'-C5'-C4'	-5.55	101.14	111.70
1	N	478	A	C2-N3-C4	5.55	113.38	110.60
1	N	589	U	P-O3'-C3'	5.55	126.37	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	667	G	N3-C4-C5	-5.55	125.82	128.60
1	N	990	C	N3-C2-O2	5.55	125.79	121.90
1	N	1105	A	C5-C6-N6	-5.55	119.26	123.70
1	N	1318	A	N7-C8-N9	5.55	116.58	113.80
1	N	451	A	C1'-O4'-C4'	-5.55	105.46	109.90
1	N	1381	U	N3-C4-C5	-5.55	111.27	114.60
1	N	94	G	O4'-C1'-N9	5.55	112.64	108.20
1	N	396	C	C5-C4-N4	-5.55	116.31	120.20
1	N	651	C	C4-C5-C6	5.55	120.18	117.40
1	N	702	A	C4-C5-N7	-5.55	107.92	110.70
1	N	874	G	O4'-C4'-C3'	-5.55	98.45	104.00
1	N	1019	A	N1-C2-N3	5.55	132.07	129.30
1	N	1223	C	C2-N1-C1'	5.55	124.91	118.80
1	N	1523	G	C6-C5-N7	-5.55	127.07	130.40
1	N	310	G	C8-N9-C4	5.55	108.62	106.40
1	N	743	A	C4-C5-C6	5.55	119.77	117.00
1	N	414	A	C6-C5-N7	-5.55	128.42	132.30
1	N	441	A	N1-C2-N3	5.55	132.07	129.30
1	N	600	A	C5'-C4'-C3'	-5.55	107.13	116.00
1	N	621	A	C6-N1-C2	5.55	121.93	118.60
1	N	1321	U	C5'-C4'-C3'	-5.55	107.12	116.00
1	N	1221	G	N3-C4-C5	-5.54	125.83	128.60
1	N	969	A	C3'-C2'-C1'	-5.54	97.06	101.50
1	N	1032	G	C4-C5-N7	-5.54	108.58	110.80
1	N	1131	G	N1-C2-N3	-5.54	120.57	123.90
1	N	44	A	P-O5'-C5'	-5.54	112.03	120.90
1	N	295	C	C5-C6-N1	5.54	123.77	121.00
1	N	442	G	N7-C8-N9	5.54	115.87	113.10
1	N	564	C	OP1-P-OP2	-5.54	111.29	119.60
1	N	1272	G	O4'-C1'-N9	5.54	112.63	108.20
1	N	1352	C	N1-C2-N3	-5.54	115.32	119.20
1	N	1410	A	O4'-C1'-N9	5.54	112.63	108.20
1	N	52	C	O4'-C4'-C3'	-5.54	98.46	104.00
1	N	125	U	P-O3'-C3'	-5.54	113.05	119.70
1	N	795	C	N3-C4-C5	-5.54	119.68	121.90
1	N	1276	G	C5-C6-O6	-5.54	125.28	128.60
1	N	672	U	N3-C4-C5	-5.54	111.28	114.60
1	N	796	C	C4'-C3'-C2'	-5.54	97.06	102.60
1	N	846	G	N9-C4-C5	-5.54	103.19	105.40
1	N	1173	U	N3-C4-O4	5.54	123.28	119.40
1	N	1263	C	C2'-C3'-O3'	5.54	122.56	113.70
1	N	809	G	C8-N9-C4	-5.54	104.19	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1012	A	O4'-C1'-N9	5.54	112.63	108.20
1	N	128	G	N3-C4-N9	-5.54	122.68	126.00
1	N	243	A	C4-C5-C6	5.54	119.77	117.00
1	N	433	G	C5'-C4'-O4'	5.54	115.74	109.10
1	N	599	C	C1'-O4'-C4'	-5.54	105.47	109.90
1	N	11	G	C4-C5-C6	5.53	122.12	118.80
1	N	115	G	N3-C4-C5	-5.53	125.83	128.60
1	N	960	U	N1-C2-O2	-5.53	118.93	122.80
1	N	298	A	N1-C2-N3	5.53	132.07	129.30
1	N	723	U	N3-C4-C5	-5.53	111.28	114.60
1	N	1033	G	O4'-C1'-N9	5.53	112.62	108.20
1	N	1089	G	C8-N9-C1'	-5.53	119.81	127.00
1	N	1515	G	O4'-C1'-N9	5.53	112.63	108.20
1	N	173	U	O3'-P-O5'	5.53	114.51	104.00
1	N	363	A	N7-C8-N9	5.53	116.56	113.80
1	N	593	U	N1-C2-O2	-5.53	118.93	122.80
1	N	703	G	N7-C8-N9	-5.53	110.33	113.10
1	N	1362	A	C2'-C3'-O3'	5.53	122.55	113.70
1	N	330	C	C5-C4-N4	-5.53	116.33	120.20
1	N	402	G	C5'-C4'-O4'	5.53	115.73	109.10
1	N	1500	A	C6-N1-C2	5.53	121.92	118.60
1	N	49	U	O3'-P-O5'	-5.53	93.50	104.00
1	N	54	C	C6-N1-C2	-5.53	118.09	120.30
1	N	200	G	P-O5'-C5'	-5.53	112.06	120.90
1	N	1064	G	C5-C6-N1	-5.53	108.74	111.50
1	N	1185	G	C3'-C2'-C1'	-5.53	97.08	101.50
1	N	198	G	C6-C5-N7	-5.52	127.09	130.40
1	N	1418	A	O4'-C1'-N9	5.52	112.62	108.20
1	N	1446	A	N1-C2-N3	-5.52	126.54	129.30
1	N	852	G	N7-C8-N9	5.52	115.86	113.10
1	N	1187	G	C6-N1-C2	5.52	128.41	125.10
1	N	458	U	O4'-C1'-C2'	-5.52	100.28	105.80
1	N	1068	G	C1'-O4'-C4'	5.52	114.32	109.90
1	N	1528	U	C3'-C2'-C1'	5.52	105.92	101.50
1	N	850	U	P-O5'-C5'	5.52	129.73	120.90
1	N	159	G	C5'-C4'-O4'	-5.52	102.48	109.10
1	N	1343	G	N1-C2-N3	-5.52	120.59	123.90
1	N	537	G	N9-C1'-C2'	-5.52	105.93	112.00
1	N	1287	A	C5'-C4'-O4'	5.52	115.72	109.10
1	N	266	G	C6-N1-C2	5.51	128.41	125.10
1	N	315	A	C5-C6-N1	-5.51	114.94	117.70
1	N	544	G	C6-N1-C2	-5.51	121.79	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	826	C	C2-N3-C4	-5.51	117.14	119.90
1	N	952	U	C5-C6-N1	5.51	125.46	122.70
1	N	571	U	C4-C5-C6	-5.51	116.39	119.70
1	N	923	A	C5-C6-N1	-5.51	114.94	117.70
1	N	1188	A	O4'-C1'-N9	5.51	112.61	108.20
1	N	308	C	N1-C2-O2	5.51	122.21	118.90
1	N	408	A	C4'-C3'-C2'	-5.51	97.09	102.60
1	N	637	C	C6-N1-C1'	-5.51	114.19	120.80
1	N	922	G	C4-C5-C6	5.51	122.11	118.80
1	N	99	C	C4'-C3'-C2'	-5.51	97.09	102.60
1	N	264	C	C4'-C3'-C2'	-5.51	97.09	102.60
1	N	476	U	O4'-C4'-C3'	-5.51	98.49	104.00
1	N	1069	C	OP2-P-O3'	5.51	117.32	105.20
1	N	729	A	C5-C6-N6	-5.51	119.29	123.70
1	N	784	A	N9-C1'-C2'	-5.51	105.94	112.00
1	N	987	G	C4-N9-C1'	-5.51	119.34	126.50
1	N	1532	U	C1'-O4'-C4'	5.51	114.31	109.90
1	N	45	G	C6-C5-N7	-5.51	127.10	130.40
1	N	93	U	N3-C4-O4	-5.51	115.55	119.40
1	N	673	A	O4'-C1'-N9	5.51	112.61	108.20
1	N	1051	C	N3-C4-C5	-5.51	119.70	121.90
1	N	1102	A	C6-C5-N7	-5.51	128.45	132.30
1	N	1216	A	C1'-O4'-C4'	-5.51	105.49	109.90
1	N	1482	G	C2-N3-C4	5.51	114.65	111.90
1	N	54	C	O4'-C1'-C2'	-5.50	100.30	105.80
1	N	299	G	C4-C5-C6	5.50	122.10	118.80
1	N	881	G	C3'-C2'-C1'	-5.50	97.10	101.50
1	N	1018	G	O4'-C1'-N9	5.50	112.60	108.20
1	N	1040	U	C5'-C4'-C3'	5.50	124.81	116.00
1	N	131	A	C3'-C2'-C1'	5.50	105.90	101.50
1	N	295	C	C4'-C3'-C2'	-5.50	97.10	102.60
1	N	521	G	C5-C6-O6	-5.50	125.30	128.60
1	N	589	U	C5'-C4'-O4'	5.50	115.70	109.10
1	N	622	A	N7-C8-N9	5.50	116.55	113.80
1	N	730	G	C5-N7-C8	5.50	107.05	104.30
1	N	903	G	N1-C2-N3	-5.50	120.60	123.90
1	N	231	U	N3-C2-O2	5.50	126.05	122.20
1	N	432	A	O4'-C1'-N9	5.50	112.60	108.20
1	N	666	G	N3-C2-N2	5.50	123.75	119.90
1	N	721	G	N3-C2-N2	-5.50	116.05	119.90
1	N	816	A	C5-C6-N6	-5.50	119.30	123.70
1	N	901	A	O4'-C4'-C3'	-5.50	98.50	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1437	A	C6-C5-N7	-5.50	128.45	132.30
1	N	282	A	C2-N3-C4	5.50	113.35	110.60
1	N	329	A	C6-C5-N7	-5.50	128.45	132.30
1	N	1150	A	C6-C5-N7	-5.50	128.45	132.30
1	N	502	A	N9-C4-C5	5.50	108.00	105.80
1	N	568	G	C2-N3-C4	-5.50	109.15	111.90
1	N	832	G	C4'-C3'-C2'	-5.50	97.10	102.60
1	N	1106	G	C4-C5-N7	-5.50	108.60	110.80
1	N	1159	U	O3'-P-O5'	-5.50	93.56	104.00
1	N	1198	G	C8-N9-C4	-5.50	104.20	106.40
1	N	456	A	C4-C5-C6	5.50	119.75	117.00
1	N	919	A	C4-C5-N7	-5.50	107.95	110.70
1	N	1196	A	C8-N9-C4	5.50	108.00	105.80
1	N	1386	G	P-O3'-C3'	-5.50	113.11	119.70
1	N	1499	A	N1-C6-N6	5.50	121.90	118.60
1	N	41	G	C6-C5-N7	-5.49	127.10	130.40
1	N	285	C	C5'-C4'-O4'	5.49	115.69	109.10
1	N	366	A	C8-N9-C4	-5.49	103.60	105.80
1	N	668	G	N1-C2-N2	5.49	121.14	116.20
1	N	828	U	P-O5'-C5'	5.49	129.69	120.90
1	N	884	U	O3'-P-O5'	-5.49	93.56	104.00
1	N	1049	U	C4'-C3'-C2'	5.49	108.09	102.60
1	N	1105	A	O4'-C4'-C3'	5.49	110.49	106.10
1	N	1480	A	C4-C5-N7	5.49	113.45	110.70
1	N	521	G	C6-C5-N7	-5.49	127.11	130.40
1	N	1519	A	C5-C6-N6	-5.49	119.31	123.70
1	N	256	U	N1-C2-O2	-5.49	118.96	122.80
1	N	355	C	O4'-C1'-N1	5.49	112.59	108.20
1	N	401	C	N1-C2-N3	-5.49	115.36	119.20
1	N	1365	G	N9-C4-C5	-5.49	103.20	105.40
1	N	177	G	N3-C2-N2	5.49	123.74	119.90
1	N	364	A	C8-N9-C1'	5.49	137.58	127.70
1	N	443	C	O4'-C4'-C3'	-5.49	98.51	104.00
1	N	574	A	O4'-C1'-N9	5.49	112.59	108.20
1	N	1033	G	C4-C5-C6	5.49	122.09	118.80
1	N	1094	G	C5-N7-C8	5.49	107.05	104.30
1	N	314	C	C1'-O4'-C4'	-5.49	105.51	109.90
1	N	526	C	C4'-C3'-C2'	-5.49	97.11	102.60
1	N	1368	A	N1-C6-N6	5.49	121.89	118.60
1	N	1426	G	N9-C4-C5	5.49	107.59	105.40
1	N	555	U	O4'-C1'-N1	5.49	112.59	108.20
1	N	834	U	C2-N3-C4	5.49	130.29	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	881	G	C5-C6-N1	-5.49	108.76	111.50
1	N	975	A	C6-C5-N7	-5.49	128.46	132.30
1	N	1081	A	N1-C2-N3	5.49	132.04	129.30
1	N	509	A	P-O5'-C5'	-5.48	112.12	120.90
1	N	1080	A	C5'-C4'-C3'	-5.48	107.22	116.00
1	N	302	G	O4'-C1'-N9	5.48	112.59	108.20
1	N	699	C	C5-C6-N1	5.48	123.74	121.00
1	N	972	C	C2-N3-C4	-5.48	117.16	119.90
1	N	1103	C	N3-C2-O2	5.48	125.74	121.90
1	N	343	U	C4-C5-C6	5.48	122.99	119.70
1	N	924	C	C4'-C3'-C2'	-5.48	97.12	102.60
1	N	974	A	N1-C2-N3	-5.48	126.56	129.30
1	N	1416	G	C5-N7-C8	5.48	107.04	104.30
1	N	1421	G	N3-C2-N2	5.48	123.74	119.90
1	N	595	A	C5-C6-N1	-5.48	114.96	117.70
1	N	769	G	N9-C4-C5	-5.48	103.21	105.40
1	N	1488	G	OP1-P-OP2	-5.48	111.38	119.60
1	N	35	G	N1-C6-O6	5.48	123.19	119.90
1	N	533	A	C6-C5-N7	-5.48	128.47	132.30
1	N	539	A	N3-C4-C5	5.48	130.63	126.80
1	N	1162	C	O5'-P-OP2	-5.48	100.77	105.70
1	N	219	U	C4-C5-C6	5.48	122.99	119.70
1	N	61	G	C3'-C2'-C1'	-5.47	97.12	101.50
1	N	119	A	C3'-C2'-C1'	5.47	105.88	101.50
1	N	1458	G	C8-N9-C4	-5.47	104.21	106.40
1	N	45	G	C8-N9-C4	5.47	108.59	106.40
1	N	523	A	N7-C8-N9	-5.47	111.06	113.80
1	N	690	G	O5'-C5'-C4'	-5.47	101.30	111.70
1	N	783	C	C6-N1-C1'	-5.47	114.23	120.80
1	N	922	G	O4'-C1'-N9	5.47	112.58	108.20
1	N	265	G	C6-C5-N7	-5.47	127.12	130.40
1	N	279	A	C5-N7-C8	-5.47	101.17	103.90
1	N	481	G	C2-N3-C4	-5.47	109.16	111.90
1	N	540	G	N7-C8-N9	-5.47	110.36	113.10
1	N	708	C	C4'-C3'-C2'	-5.47	97.13	102.60
1	N	1405	G	C4'-C3'-C2'	-5.47	97.13	102.60
1	N	160	A	C4-C5-C6	5.47	119.73	117.00
1	N	392	C	C6-N1-C1'	-5.47	114.24	120.80
1	N	647	C	N3-C4-C5	-5.47	119.71	121.90
1	N	673	A	C5-N7-C8	5.47	106.64	103.90
1	N	774	G	C6-N1-C2	-5.47	121.82	125.10
1	N	984	C	C5-C6-N1	5.47	123.73	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1240	U	N3-C2-O2	5.47	126.03	122.20
1	N	1401	G	C8-N9-C4	-5.47	104.21	106.40
1	N	1435	G	N3-C2-N2	5.47	123.73	119.90
1	N	1486	G	C4-C5-C6	5.47	122.08	118.80
1	N	752	G	N3-C2-N2	5.47	123.73	119.90
1	N	812	G	O4'-C1'-N9	5.47	112.57	108.20
1	N	892	A	C4-C5-N7	-5.47	107.97	110.70
1	N	878	A	P-O3'-C3'	-5.47	113.14	119.70
1	N	1496	C	N3-C4-N4	5.47	121.83	118.00
1	N	159	G	C8-N9-C4	5.46	108.59	106.40
1	N	212	G	C1'-O4'-C4'	5.46	114.27	109.90
1	N	705	G	C5'-C4'-O4'	5.46	115.66	109.10
1	N	1282	C	C4-C5-C6	5.46	120.13	117.40
1	N	654	G	C2-N3-C4	-5.46	109.17	111.90
1	N	449	G	C6-N1-C2	5.46	128.38	125.10
1	N	831	A	C5-C6-N1	-5.46	114.97	117.70
1	N	925	G	C5-N7-C8	5.46	107.03	104.30
1	N	1200	C	C3'-C2'-C1'	5.46	105.87	101.50
1	N	1323	G	C6-C5-N7	-5.46	127.12	130.40
1	N	1383	C	O4'-C4'-C3'	-5.46	98.54	104.00
1	N	195	A	O4'-C4'-C3'	-5.46	98.54	104.00
1	N	328	C	C4'-C3'-C2'	-5.46	97.14	102.60
1	N	592	G	C4-C5-N7	5.46	112.98	110.80
1	N	745	G	C4'-C3'-C2'	-5.46	97.14	102.60
1	N	847	G	C4-N9-C1'	5.46	133.60	126.50
1	N	857	C	N1-C2-N3	-5.46	115.38	119.20
1	N	903	G	C8-N9-C4	-5.46	104.22	106.40
1	N	1350	A	C4-C5-N7	-5.46	107.97	110.70
1	N	339	C	N3-C4-C5	-5.46	119.72	121.90
1	N	673	A	C2-N3-C4	-5.46	107.87	110.60
1	N	1166	G	C2-N3-C4	5.46	114.63	111.90
1	N	179	A	P-O3'-C3'	-5.46	113.15	119.70
1	N	300	A	C5'-C4'-C3'	5.46	124.73	116.00
1	N	324	G	N7-C8-N9	5.46	115.83	113.10
1	N	561	U	C6-N1-C1'	-5.46	113.56	121.20
1	N	914	A	N1-C6-N6	5.46	121.87	118.60
1	N	1154	G	N3-C4-N9	5.46	129.27	126.00
1	N	235	C	C4'-C3'-C2'	-5.45	97.15	102.60
1	N	305	G	C8-N9-C4	5.45	108.58	106.40
1	N	431	A	C5-C6-N6	-5.45	119.34	123.70
1	N	81	A	C6-N1-C2	-5.45	115.33	118.60
1	N	93	U	N1-C2-O2	-5.45	118.98	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	778	G	N3-C4-N9	5.45	129.27	126.00
1	N	917	G	C8-N9-C4	-5.45	104.22	106.40
1	N	973	G	N9-C1'-C2'	-5.45	106.00	112.00
1	N	374	A	C5-C6-N1	-5.45	114.97	117.70
1	N	1159	U	OP1-P-OP2	-5.45	111.42	119.60
1	N	1219	A	N9-C4-C5	-5.45	103.62	105.80
1	N	1441	A	C3'-C2'-C1'	-5.45	97.14	101.50
1	N	606	G	N3-C4-N9	5.45	129.27	126.00
1	N	886	G	N3-C4-C5	-5.45	125.88	128.60
1	N	1181	G	N3-C4-N9	5.45	129.27	126.00
1	N	1286	U	P-O3'-C3'	-5.45	113.16	119.70
1	N	1324	A	N1-C2-N3	-5.45	126.58	129.30
1	N	1433	A	N3-C4-N9	-5.45	123.04	127.40
1	N	626	G	C4'-C3'-C2'	-5.45	97.15	102.60
1	N	632	U	C2-N1-C1'	5.45	124.24	117.70
1	N	1059	C	P-O3'-C3'	5.45	126.24	119.70
1	N	1454	G	N3-C4-C5	5.45	131.32	128.60
1	N	1508	A	N1-C2-N3	-5.45	126.58	129.30
1	N	143	A	C8-N9-C4	-5.45	103.62	105.80
1	N	527	G	C4'-C3'-C2'	-5.45	97.15	102.60
1	N	572	A	P-O5'-C5'	5.45	129.61	120.90
1	N	610	U	N3-C4-O4	5.45	123.21	119.40
1	N	1423	G	N3-C4-C5	5.45	131.32	128.60
1	N	91	U	C5'-C4'-C3'	5.44	124.71	116.00
1	N	1150	A	C5-C6-N6	-5.44	119.34	123.70
1	N	146	G	C5-C6-O6	-5.44	125.33	128.60
1	N	359	G	C5'-C4'-O4'	5.44	115.63	109.10
1	N	507	C	C6-N1-C2	5.44	122.48	120.30
1	N	575	G	C6-C5-N7	-5.44	127.14	130.40
1	N	668	G	C5-N7-C8	-5.44	101.58	104.30
1	N	791	G	C5-N7-C8	5.44	107.02	104.30
1	N	2	A	N7-C8-N9	-5.44	111.08	113.80
1	N	380	G	N3-C2-N2	5.44	123.71	119.90
1	N	888	G	C3'-C2'-C1'	5.44	105.85	101.50
1	N	1050	G	C4'-C3'-C2'	-5.44	97.16	102.60
1	N	498	A	N1-C2-N3	-5.44	126.58	129.30
1	N	684	U	N1-C2-O2	-5.44	118.99	122.80
1	N	831	A	C4'-C3'-C2'	-5.44	97.16	102.60
1	N	851	G	C5-C6-O6	-5.44	125.34	128.60
1	N	975	A	O4'-C1'-N9	5.44	112.55	108.20
1	N	1107	C	C6-N1-C2	-5.44	118.12	120.30
1	N	1226	C	N1-C2-O2	-5.44	115.64	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1446	A	C4-C5-N7	-5.44	107.98	110.70
1	N	281	G	P-O5'-C5'	5.44	129.60	120.90
1	N	332	G	N1-C2-N2	5.44	121.09	116.20
1	N	36	C	N1-C1'-C2'	-5.43	106.02	112.00
1	N	220	G	N3-C4-C5	-5.43	125.88	128.60
1	N	391	G	C8-N9-C1'	5.43	134.07	127.00
1	N	445	G	C4-C5-N7	5.43	112.97	110.80
1	N	453	G	O5'-C5'-C4'	-5.43	101.38	111.70
1	N	599	C	C5'-C4'-O4'	5.43	115.62	109.10
1	N	728	A	C3'-C2'-C1'	-5.43	97.15	101.50
1	N	759	A	N1-C6-N6	5.43	121.86	118.60
1	N	942	G	O4'-C1'-N9	5.43	112.55	108.20
1	N	1208	C	N1-C1'-C2'	-5.43	106.02	112.00
1	N	26	A	C2-N3-C4	5.43	113.32	110.60
1	N	352	C	C6-N1-C1'	-5.43	114.28	120.80
1	N	884	U	N3-C2-O2	5.43	126.00	122.20
1	N	1394	A	C5'-C4'-O4'	5.43	115.62	109.10
1	N	699	C	N3-C4-N4	5.43	121.80	118.00
1	N	927	G	N3-C4-N9	-5.43	122.74	126.00
1	N	121	U	O4'-C1'-C2'	-5.43	100.37	105.80
1	N	298	A	P-O3'-C3'	5.43	126.22	119.70
1	N	527	G	N3-C4-C5	-5.43	125.89	128.60
1	N	727	G	N1-C6-O6	5.43	123.16	119.90
1	N	840	C	N1-C2-O2	5.43	122.16	118.90
1	N	935	A	C4'-C3'-C2'	-5.43	97.17	102.60
1	N	1388	C	C6-N1-C2	-5.43	118.13	120.30
1	N	1171	A	C5'-C4'-O4'	5.43	115.61	109.10
1	N	1255	G	C5-C6-O6	-5.43	125.34	128.60
1	N	1314	C	C5'-C4'-O4'	5.43	115.61	109.10
1	N	1454	G	C2-N3-C4	-5.43	109.19	111.90
1	N	172	A	C5-C6-N1	-5.43	114.99	117.70
1	N	192	A	C4-C5-C6	5.43	119.71	117.00
1	N	220	G	C4'-C3'-C2'	-5.43	97.17	102.60
1	N	444	G	N3-C2-N2	5.43	123.70	119.90
1	N	835	U	C4'-C3'-C2'	-5.43	97.17	102.60
1	N	1044	A	P-O5'-C5'	-5.43	112.22	120.90
1	N	37	U	N1-C2-N3	-5.42	111.64	114.90
1	N	118	U	N3-C4-O4	5.42	123.20	119.40
1	N	234	C	N3-C4-C5	-5.42	119.73	121.90
1	N	315	A	C2'-C3'-O3'	5.42	122.38	113.70
1	N	785	G	N3-C2-N2	5.42	123.70	119.90
1	N	1526	G	C4-C5-N7	-5.42	108.63	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1122	U	C5'-C4'-C3'	-5.42	107.32	116.00
1	N	1262	C	C1'-O4'-C4'	-5.42	105.56	109.90
1	N	254	G	N9-C4-C5	5.42	107.57	105.40
1	N	308	C	P-O5'-C5'	5.42	129.57	120.90
1	N	386	C	C1'-O4'-C4'	5.42	114.24	109.90
1	N	398	U	C2-N1-C1'	5.42	124.20	117.70
1	N	500	G	O4'-C4'-C3'	-5.42	98.58	104.00
1	N	559	A	C2-N3-C4	-5.42	107.89	110.60
1	N	816	A	C1'-O4'-C4'	5.42	114.24	109.90
1	N	918	A	C4-N9-C1'	-5.42	116.54	126.30
1	N	970	C	C6-N1-C1'	-5.42	114.29	120.80
1	N	1338	G	C4-C5-C6	5.42	122.05	118.80
1	N	1402	C	C5'-C4'-O4'	5.42	115.61	109.10
1	N	1350	A	N9-C4-C5	5.42	107.97	105.80
1	N	379	C	N3-C4-N4	5.42	121.79	118.00
1	N	671	G	O4'-C1'-N9	5.42	112.53	108.20
1	N	860	A	C4'-C3'-C2'	-5.42	97.18	102.60
1	N	870	U	P-O3'-C3'	-5.42	113.20	119.70
1	N	1229	A	C8-N9-C4	5.42	107.97	105.80
1	N	1233	G	O4'-C1'-N9	5.42	112.54	108.20
1	N	1357	A	C5-C6-N1	-5.42	114.99	117.70
1	N	150	U	O4'-C1'-N1	5.42	112.53	108.20
1	N	864	A	C6-N1-C2	-5.42	115.35	118.60
1	N	867	G	N3-C2-N2	5.42	123.69	119.90
1	N	1325	C	P-O3'-C3'	-5.42	113.20	119.70
1	N	1366	C	P-O5'-C5'	5.42	129.57	120.90
1	N	171	A	C5'-C4'-C3'	-5.42	107.33	116.00
1	N	1330	U	C6-N1-C2	-5.42	117.75	121.00
1	N	1405	G	N1-C2-N2	5.42	121.07	116.20
1	N	476	U	C2-N3-C4	5.41	130.25	127.00
1	N	733	G	C6-C5-N7	-5.41	127.15	130.40
1	N	1012	A	N3-C4-N9	-5.41	123.07	127.40
1	N	915	A	C2-N3-C4	-5.41	107.89	110.60
1	N	144	G	C2-N3-C4	5.41	114.61	111.90
1	N	185	U	N1-C2-O2	5.41	126.59	122.80
1	N	245	U	C5-C6-N1	5.41	125.41	122.70
1	N	251	G	N3-C4-C5	-5.41	125.89	128.60
1	N	335	C	N1-C2-N3	-5.41	115.41	119.20
1	N	453	G	C5'-C4'-O4'	5.41	115.59	109.10
1	N	595	A	C4'-C3'-C2'	-5.41	97.19	102.60
1	N	1139	G	N3-C2-N2	-5.41	116.11	119.90
1	N	483	C	C5-C6-N1	5.41	123.70	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	512	U	N3-C4-O4	5.41	123.19	119.40
1	N	685	G	N3-C4-C5	5.41	131.31	128.60
1	N	754	C	P-O5'-C5'	-5.41	112.25	120.90
1	N	1017	U	O5'-P-OP1	-5.41	100.83	105.70
1	N	309	A	C6-C5-N7	-5.41	128.51	132.30
1	N	1249	C	N1-C2-O2	5.41	122.14	118.90
1	N	410	G	N3-C4-N9	5.41	129.24	126.00
1	N	437	U	N3-C4-C5	5.41	117.84	114.60
1	N	1127	G	N9-C1'-C2'	-5.41	106.05	112.00
1	N	1383	C	C5-C4-N4	-5.41	116.42	120.20
1	N	1494	G	C4-C5-C6	5.41	122.04	118.80
1	N	868	C	C3'-C2'-C1'	-5.40	97.18	101.50
1	N	925	G	C3'-C2'-C1'	5.40	105.82	101.50
1	N	1439	G	N3-C4-C5	5.40	131.30	128.60
1	N	147	G	N3-C2-N2	5.40	123.68	119.90
1	N	232	G	C5-C6-O6	-5.40	125.36	128.60
1	N	301	G	C4-N9-C1'	5.40	133.52	126.50
1	N	382	A	C6-N1-C2	5.40	121.84	118.60
1	N	567	G	C4-C5-C6	5.40	122.04	118.80
1	N	738	C	C4'-C3'-C2'	-5.40	97.20	102.60
1	N	972	C	N3-C4-N4	5.40	121.78	118.00
1	N	1225	A	N7-C8-N9	5.40	116.50	113.80
1	N	17	U	C4-C5-C6	5.40	122.94	119.70
1	N	37	U	N1-C2-O2	5.40	126.58	122.80
1	N	72	A	P-O5'-C5'	-5.40	112.26	120.90
1	N	395	C	P-O5'-C5'	5.40	129.54	120.90
1	N	670	G	N3-C2-N2	-5.40	116.12	119.90
1	N	872	A	C5'-C4'-C3'	5.40	124.64	116.00
1	N	928	G	C3'-C2'-C1'	-5.40	97.18	101.50
1	N	1354	U	C4'-C3'-C2'	-5.40	97.20	102.60
1	N	653	U	C1'-O4'-C4'	5.40	114.22	109.90
1	N	890	G	O4'-C1'-C2'	-5.40	100.40	105.80
1	N	1245	C	C4'-C3'-C2'	-5.40	97.20	102.60
1	N	1472	U	O4'-C4'-C3'	-5.40	98.60	104.00
1	N	221	C	O4'-C1'-N1	5.40	112.52	108.20
1	N	528	C	P-O3'-C3'	5.40	126.18	119.70
1	N	800	G	C3'-C2'-C1'	5.40	105.82	101.50
1	N	1090	U	N1-C2-O2	-5.40	119.02	122.80
1	N	1182	G	C6-C5-N7	-5.40	127.16	130.40
1	N	1333	A	C6-N1-C2	-5.40	115.36	118.60
1	N	1376	U	C4'-C3'-C2'	-5.40	97.20	102.60
1	N	1430	A	P-O3'-C3'	-5.40	113.22	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1533	C	C6-N1-C1'	-5.40	114.32	120.80
1	N	1198	G	P-O3'-C3'	-5.40	113.22	119.70
1	N	1384	C	C3'-C2'-C1'	-5.40	97.18	101.50
1	N	94	G	C4-N9-C1'	-5.39	119.49	126.50
1	N	114	U	C2-N3-C4	5.39	130.24	127.00
1	N	159	G	C5-C6-N1	5.39	114.20	111.50
1	N	361	G	P-O3'-C3'	5.39	126.17	119.70
1	N	506	G	C2-N3-C4	-5.39	109.20	111.90
1	N	632	U	C5-C4-O4	-5.39	122.66	125.90
1	N	696	A	C5'-C4'-C3'	5.39	124.63	116.00
1	N	836	G	C8-N9-C4	5.39	108.56	106.40
1	N	1290	G	OP1-P-OP2	-5.39	111.51	119.60
1	N	1460	C	N3-C4-N4	5.39	121.78	118.00
1	N	682	G	C4-C5-C6	5.39	122.04	118.80
1	N	824	G	N1-C2-N2	5.39	121.05	116.20
1	N	1072	G	N1-C6-O6	5.39	123.14	119.90
1	N	1140	C	OP2-P-O3'	5.39	117.06	105.20
1	N	62	U	N3-C2-O2	5.39	125.97	122.20
1	N	182	A	C4-C5-N7	-5.39	108.00	110.70
1	N	298	A	C5-C6-N6	-5.39	119.39	123.70
1	N	551	U	O4'-C1'-N1	5.39	112.51	108.20
1	N	692	U	C5-C4-O4	-5.39	122.67	125.90
1	N	790	A	C4-C5-N7	-5.39	108.00	110.70
1	N	892	A	O5'-P-OP1	-5.39	100.85	105.70
1	N	1159	U	C1'-O4'-C4'	5.39	114.21	109.90
1	N	1271	A	C5-N7-C8	5.39	106.59	103.90
1	N	1078	U	C5-C6-N1	5.39	125.39	122.70
1	N	1150	A	C5'-C4'-O4'	5.39	115.56	109.10
1	N	1164	G	C5-N7-C8	-5.39	101.61	104.30
1	N	91	U	O4'-C1'-C2'	5.39	112.45	107.60
1	N	127	G	N3-C4-N9	-5.39	122.77	126.00
1	N	187	G	C5-N7-C8	5.39	106.99	104.30
1	N	215	C	C4'-C3'-C2'	-5.39	97.21	102.60
1	N	558	G	C5-C6-O6	-5.39	125.37	128.60
1	N	979	C	C5'-C4'-C3'	-5.39	107.38	116.00
1	N	1118	U	P-O3'-C3'	-5.39	113.24	119.70
1	N	1151	A	C5'-C4'-O4'	-5.39	102.64	109.10
1	N	1151	A	C6-C5-N7	-5.39	128.53	132.30
1	N	1402	C	C4-C5-C6	-5.39	114.71	117.40
1	N	1415	G	N3-C2-N2	5.39	123.67	119.90
1	N	46	G	N3-C2-N2	5.38	123.67	119.90
1	N	61	G	C4-C5-N7	-5.38	108.65	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	114	U	N3-C4-C5	-5.38	111.37	114.60
1	N	115	G	C4-C5-C6	5.38	122.03	118.80
1	N	176	C	C6-N1-C2	-5.38	118.15	120.30
1	N	249	U	O4'-C1'-C2'	-5.38	100.42	105.80
1	N	365	U	C4-C5-C6	5.38	122.93	119.70
1	N	857	C	C2-N1-C1'	-5.38	112.88	118.80
1	N	1498	U	C5-C4-O4	5.38	129.13	125.90
1	N	107	G	N3-C2-N2	5.38	123.67	119.90
1	N	123	U	N3-C4-O4	5.38	123.17	119.40
1	N	129	A	C8-N9-C1'	-5.38	118.01	127.70
1	N	454	G	C5-N7-C8	-5.38	101.61	104.30
1	N	719	C	N1-C2-O2	-5.38	115.67	118.90
1	N	1069	C	C1'-O4'-C4'	-5.38	105.59	109.90
1	N	1151	A	C3'-C2'-C1'	5.38	105.81	101.50
1	N	1398	A	C5-N7-C8	5.38	106.59	103.90
1	N	1408	A	N3-C4-C5	-5.38	123.03	126.80
1	N	1483	A	P-O5'-C5'	5.38	129.51	120.90
1	N	10	A	C5-N7-C8	5.38	106.59	103.90
1	N	327	A	C5-C6-N1	-5.38	115.01	117.70
1	N	543	U	N1-C2-O2	5.38	126.57	122.80
1	N	702	A	C2-N3-C4	-5.38	107.91	110.60
1	N	1061	G	C5-C6-N1	-5.38	108.81	111.50
1	N	127	G	C4'-C3'-C2'	-5.38	97.22	102.60
1	N	1210	C	C6-N1-C2	-5.38	118.15	120.30
1	N	42	G	C3'-C2'-C1'	-5.38	97.20	101.50
1	N	69	G	C8-N9-C1'	5.38	133.99	127.00
1	N	118	U	C5-C4-O4	-5.38	122.67	125.90
1	N	264	C	C5'-C4'-O4'	5.38	115.55	109.10
1	N	336	A	C4-C5-C6	5.38	119.69	117.00
1	N	559	A	C2'-C3'-O3'	5.38	122.30	113.70
1	N	836	G	O4'-C1'-N9	5.38	112.50	108.20
1	N	1034	G	C8-N9-C1'	5.38	133.99	127.00
1	N	1109	C	C4-C5-C6	-5.38	114.71	117.40
1	N	1148	U	C6-N1-C2	-5.38	117.77	121.00
1	N	1235	U	C2'-C3'-O3'	5.38	122.30	113.70
1	N	1316	G	N1-C2-N3	-5.38	120.67	123.90
1	N	1337	G	N1-C2-N2	-5.38	111.36	116.20
1	N	256	U	C4'-C3'-C2'	-5.38	97.22	102.60
1	N	823	C	N3-C4-C5	-5.38	119.75	121.90
1	N	966	G	C4'-C3'-C2'	-5.38	97.22	102.60
1	N	1365	G	N1-C2-N3	-5.38	120.67	123.90
1	N	80	A	C1'-O4'-C4'	5.37	114.20	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	544	G	N1-C6-O6	5.37	123.12	119.90
1	N	1049	U	C6-N1-C2	5.37	124.22	121.00
1	N	1209	C	C5-C4-N4	-5.37	116.44	120.20
1	N	172	A	C5-C6-N6	5.37	128.00	123.70
1	N	335	C	O5'-C5'-C4'	-5.37	101.49	111.70
1	N	572	A	C4-C5-N7	-5.37	108.01	110.70
1	N	1288	A	N3-C4-N9	-5.37	123.10	127.40
1	N	1361	G	C1'-O4'-C4'	-5.37	105.60	109.90
1	N	1514	G	C2-N3-C4	-5.37	109.21	111.90
1	N	10	A	N9-C1'-C2'	-5.37	106.09	112.00
1	N	56	U	C2-N1-C1'	5.37	124.14	117.70
1	N	535	A	C8-N9-C4	-5.37	103.65	105.80
1	N	1124	G	C1'-O4'-C4'	5.37	114.20	109.90
1	N	269	C	C2-N3-C4	5.37	122.58	119.90
1	N	371	A	N1-C2-N3	5.37	131.98	129.30
1	N	718	A	C5-C6-N6	-5.37	119.41	123.70
1	N	739	C	P-O3'-C3'	-5.37	113.26	119.70
1	N	85	U	C2-N1-C1'	5.37	124.14	117.70
1	N	564	C	C4-C5-C6	-5.37	114.72	117.40
1	N	635	A	OP1-P-OP2	-5.37	111.55	119.60
1	N	1063	C	O4'-C4'-C3'	-5.37	98.63	104.00
1	N	1360	A	C5-C6-N6	-5.37	119.41	123.70
1	N	151	A	N3-C4-C5	-5.36	123.05	126.80
1	N	366	A	C4'-C3'-C2'	5.36	107.96	102.60
1	N	427	U	C1'-O4'-C4'	5.36	114.19	109.90
1	N	457	G	C8-N9-C4	-5.36	104.25	106.40
1	N	595	A	C5-N7-C8	5.36	106.58	103.90
1	N	1015	G	C8-N9-C4	-5.36	104.25	106.40
1	N	1261	A	C4-C5-N7	-5.36	108.02	110.70
1	N	1417	G	C5-C6-N1	-5.36	108.82	111.50
1	N	470	C	N3-C2-O2	5.36	125.65	121.90
1	N	37	U	C4'-C3'-C2'	5.36	107.96	102.60
1	N	232	G	C5-C6-N1	-5.36	108.82	111.50
1	N	289	G	C4-C5-C6	5.36	122.02	118.80
1	N	512	U	C6-N1-C2	-5.36	117.78	121.00
1	N	714	G	C1'-O4'-C4'	5.36	114.19	109.90
1	N	910	C	C5-C6-N1	5.36	123.68	121.00
1	N	1418	A	C5'-C4'-C3'	5.36	124.58	116.00
1	N	1474	U	C1'-O4'-C4'	5.36	114.19	109.90
1	N	1494	G	P-O3'-C3'	-5.36	113.27	119.70
1	N	1496	C	C4'-C3'-C2'	-5.36	97.24	102.60
1	N	196	A	N7-C8-N9	-5.36	111.12	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	256	U	P-O5'-C5'	5.36	129.47	120.90
1	N	454	G	C6-C5-N7	-5.36	127.19	130.40
1	N	754	C	C5'-C4'-O4'	5.36	115.53	109.10
1	N	1145	A	C4-C5-C6	5.36	119.68	117.00
1	N	1387	G	N9-C1'-C2'	-5.36	106.11	112.00
1	N	247	G	C5-C6-N1	-5.36	108.82	111.50
1	N	573	A	C5'-C4'-C3'	-5.36	107.43	116.00
1	N	694	A	N9-C4-C5	5.36	107.94	105.80
1	N	721	G	C4-C5-N7	-5.36	108.66	110.80
1	N	1256	A	C4-C5-C6	5.36	119.68	117.00
1	N	1513	A	C5'-C4'-O4'	5.36	115.53	109.10
1	N	202	G	C3'-C2'-C1'	5.36	105.78	101.50
1	N	398	U	C6-N1-C2	-5.36	117.79	121.00
1	N	554	A	C4-C5-C6	5.36	119.68	117.00
1	N	1094	G	O4'-C4'-C3'	5.36	110.38	106.10
1	N	1266	G	N1-C2-N2	-5.36	111.38	116.20
1	N	1412	C	C2-N3-C4	5.36	122.58	119.90
1	N	196	A	C4-C5-C6	5.35	119.68	117.00
1	N	261	U	N1-C2-N3	-5.35	111.69	114.90
1	N	331	G	N9-C4-C5	5.35	107.54	105.40
1	N	331	G	C4-C5-C6	5.35	122.01	118.80
1	N	1033	G	C2-N3-C4	5.35	114.58	111.90
1	N	1417	G	O4'-C1'-N9	5.35	112.48	108.20
1	N	129	A	C6-C5-N7	-5.35	128.55	132.30
1	N	178	C	O4'-C1'-N1	5.35	112.48	108.20
1	N	234	C	O5'-C5'-C4'	-5.35	101.53	111.70
1	N	358	U	N3-C4-O4	-5.35	115.65	119.40
1	N	558	G	C6-N1-C2	5.35	128.31	125.10
1	N	674	G	O4'-C1'-N9	5.35	112.48	108.20
1	N	677	U	O4'-C1'-N1	5.35	112.48	108.20
1	N	763	G	C5-C6-N1	-5.35	108.82	111.50
1	N	1237	C	C6-N1-C1'	-5.35	114.38	120.80
1	N	1444	U	P-O3'-C3'	-5.35	113.28	119.70
1	N	82	G	C6-N1-C2	5.35	128.31	125.10
1	N	175	C	C2-N1-C1'	5.35	124.69	118.80
1	N	10	A	C6-C5-N7	5.35	136.04	132.30
1	N	103	U	C4'-C3'-C2'	-5.35	97.25	102.60
1	N	130	A	C4-C5-N7	5.35	113.38	110.70
1	N	320	A	C4-C5-C6	5.35	119.67	117.00
1	N	411	A	C5'-C4'-O4'	5.35	115.52	109.10
1	N	799	G	N1-C6-O6	5.35	123.11	119.90
1	N	1090	U	C5'-C4'-C3'	-5.35	107.44	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1135	U	N3-C2-O2	5.35	125.94	122.20
1	N	1392	G	C5-C6-N1	5.35	114.17	111.50
1	N	64	G	C5-C6-O6	-5.35	125.39	128.60
1	N	120	A	N1-C6-N6	5.35	121.81	118.60
1	N	199	A	P-O3'-C3'	-5.35	113.28	119.70
1	N	1034	G	N3-C4-C5	-5.35	125.93	128.60
1	N	1398	A	C3'-C2'-C1'	5.35	105.78	101.50
1	N	1409	C	C4-C5-C6	-5.35	114.73	117.40
1	N	1465	A	C4-C5-N7	-5.35	108.03	110.70
1	N	1525	G	N1-C2-N3	-5.35	120.69	123.90
1	N	1531	A	N1-C2-N3	-5.35	126.63	129.30
1	N	406	G	N1-C2-N3	-5.34	120.69	123.90
1	N	1105	A	C5-N7-C8	5.34	106.57	103.90
1	N	25	C	N1-C2-O2	5.34	122.11	118.90
1	N	462	G	N3-C2-N2	5.34	123.64	119.90
1	N	1105	A	N1-C2-N3	-5.34	126.63	129.30
1	N	1167	A	C8-N9-C4	-5.34	103.66	105.80
1	N	1280	A	OP1-P-OP2	-5.34	111.59	119.60
1	N	1325	C	C5'-C4'-O4'	5.34	115.51	109.10
1	N	372	C	C1'-O4'-C4'	-5.34	105.63	109.90
1	N	377	G	C5-C6-N1	-5.34	108.83	111.50
1	N	917	G	C3'-C2'-C1'	5.34	105.77	101.50
1	N	1275	A	P-O3'-C3'	-5.34	113.29	119.70
1	N	1348	U	C5-C4-O4	-5.34	122.69	125.90
1	N	291	U	N3-C4-O4	-5.34	115.66	119.40
1	N	1242	G	C5-C6-O6	-5.34	125.40	128.60
1	N	156	C	OP2-P-O3'	5.34	116.94	105.20
1	N	434	U	C5-C4-O4	5.34	129.10	125.90
1	N	510	A	OP1-P-O3'	5.34	116.94	105.20
1	N	717	U	N3-C2-O2	5.34	125.94	122.20
1	N	380	G	C5-C6-N1	-5.34	108.83	111.50
1	N	780	A	P-O5'-C5'	5.33	129.44	120.90
1	N	1124	G	C6-C5-N7	-5.33	127.20	130.40
1	N	1450	U	C5'-C4'-O4'	5.33	115.50	109.10
1	N	42	G	N3-C4-C5	-5.33	125.93	128.60
1	N	58	C	P-O3'-C3'	-5.33	113.30	119.70
1	N	334	C	N3-C4-N4	5.33	121.73	118.00
1	N	447	G	O4'-C4'-C3'	-5.33	98.67	104.00
1	N	522	C	C5-C6-N1	5.33	123.67	121.00
1	N	541	G	N3-C4-C5	5.33	131.27	128.60
1	N	584	G	C5-N7-C8	-5.33	101.63	104.30
1	N	631	C	C6-N1-C1'	-5.33	114.40	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	731	G	C5-N7-C8	5.33	106.97	104.30
1	N	852	G	C6-N1-C2	-5.33	121.90	125.10
1	N	1196	A	C2-N3-C4	-5.33	107.93	110.60
1	N	1523	G	N9-C4-C5	5.33	107.53	105.40
1	N	98	A	C4-C5-N7	-5.33	108.03	110.70
1	N	275	G	C5'-C4'-C3'	-5.33	107.47	116.00
1	N	781	A	N9-C1'-C2'	-5.33	106.14	112.00
1	N	916	U	N1-C2-N3	-5.33	111.70	114.90
1	N	1141	C	C2-N1-C1'	-5.33	112.94	118.80
1	N	1322	C	P-O3'-C3'	5.33	126.10	119.70
1	N	232	G	C5'-C4'-O4'	5.33	115.50	109.10
1	N	573	A	P-O3'-C3'	-5.33	113.30	119.70
1	N	939	G	C4-C5-N7	-5.33	108.67	110.80
1	N	140	U	C1'-O4'-C4'	5.33	114.16	109.90
1	N	353	A	N1-C2-N3	-5.33	126.64	129.30
1	N	628	G	C6-N1-C2	5.33	128.30	125.10
1	N	771	G	C6-C5-N7	-5.33	127.20	130.40
1	N	1236	A	N7-C8-N9	5.33	116.46	113.80
1	N	1521	C	C4-C5-C6	5.33	120.06	117.40
1	N	266	G	C4-C5-N7	5.33	112.93	110.80
1	N	700	G	P-O5'-C5'	5.33	129.42	120.90
1	N	65	A	N7-C8-N9	-5.33	111.14	113.80
1	N	284	C	C3'-C2'-C1'	-5.33	97.24	101.50
1	N	734	G	O4'-C1'-N9	5.33	112.46	108.20
1	N	742	G	C6-C5-N7	-5.33	127.20	130.40
1	N	962	C	P-O5'-C5'	5.33	129.42	120.90
1	N	1049	U	OP1-P-OP2	-5.33	111.61	119.60
1	N	1165	U	C5-C4-O4	-5.33	122.70	125.90
1	N	1515	G	C4-C5-C6	5.33	122.00	118.80
1	N	347	G	C5-N7-C8	-5.32	101.64	104.30
1	N	552	U	C5-C4-O4	-5.32	122.71	125.90
1	N	1427	C	C2-N3-C4	5.32	122.56	119.90
1	N	757	U	N3-C4-C5	-5.32	111.41	114.60
1	N	1410	A	N1-C6-N6	5.32	121.79	118.60
1	N	280	C	C6-N1-C1'	-5.32	114.42	120.80
1	N	322	C	C5'-C4'-C3'	-5.32	107.49	116.00
1	N	797	C	N1-C2-N3	5.32	122.92	119.20
1	N	1027	C	C4-C5-C6	-5.32	114.74	117.40
1	N	1108	G	C6-N1-C2	5.32	128.29	125.10
1	N	1261	A	C4-C5-C6	5.32	119.66	117.00
1	N	1456	A	C6-C5-N7	-5.32	128.57	132.30
1	N	18	C	OP1-P-OP2	-5.32	111.62	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1062	U	C3'-C2'-C1'	5.32	105.75	101.50
1	N	310	G	C4-N9-C1'	-5.32	119.59	126.50
1	N	488	C	O4'-C1'-N1	5.32	112.45	108.20
1	N	908	A	N1-C2-N3	5.32	131.96	129.30
1	N	1142	G	N1-C2-N3	-5.32	120.71	123.90
1	N	1270	G	C6-N1-C2	5.32	128.29	125.10
1	N	181	A	C4'-C3'-C2'	-5.32	97.28	102.60
1	N	417	G	N1-C2-N3	-5.32	120.71	123.90
1	N	559	A	C6-C5-N7	-5.32	128.58	132.30
1	N	784	A	O4'-C4'-C3'	-5.32	98.68	104.00
1	N	801	U	C5-C6-N1	5.32	125.36	122.70
1	N	902	G	C4-C5-C6	5.32	121.99	118.80
1	N	1106	G	O4'-C1'-N9	5.32	112.45	108.20
1	N	1415	G	N9-C4-C5	5.32	107.53	105.40
1	N	82	G	C4-N9-C1'	5.31	133.41	126.50
1	N	204	G	N1-C2-N2	-5.31	111.42	116.20
1	N	246	A	C4'-C3'-C2'	5.31	107.91	102.60
1	N	583	A	O4'-C1'-N9	5.31	112.45	108.20
1	N	610	U	N1-C2-N3	5.31	118.09	114.90
1	N	1033	G	C5'-C4'-O4'	5.31	115.48	109.10
1	N	1166	G	N9-C4-C5	5.31	107.53	105.40
1	N	1320	C	N3-C4-N4	5.31	121.72	118.00
1	N	1515	G	N3-C4-C5	-5.31	125.94	128.60
1	N	391	G	C2-N3-C4	5.31	114.56	111.90
1	N	600	A	C5-C6-N6	-5.31	119.45	123.70
1	N	914	A	N9-C4-C5	-5.31	103.68	105.80
1	N	1016	A	C2-N3-C4	5.31	113.26	110.60
1	N	822	U	C5-C4-O4	-5.31	122.71	125.90
1	N	1092	A	N1-C6-N6	5.31	121.79	118.60
1	N	1169	A	N7-C8-N9	5.31	116.45	113.80
1	N	1366	C	C1'-O4'-C4'	5.31	114.15	109.90
1	N	372	C	C6-N1-C1'	-5.31	114.43	120.80
1	N	493	A	C5-C6-N1	5.31	120.35	117.70
1	N	673	A	P-O5'-C5'	5.31	129.39	120.90
1	N	1080	A	C5-N7-C8	5.31	106.55	103.90
1	N	1151	A	C1'-O4'-C4'	5.31	114.15	109.90
1	N	153	C	C6-N1-C1'	-5.31	114.43	120.80
1	N	415	A	N1-C2-N3	5.31	131.95	129.30
1	N	1239	A	O3'-P-O5'	5.31	114.08	104.00
1	N	1517	G	C6-C5-N7	-5.31	127.22	130.40
1	N	407	U	C4-C5-C6	5.30	122.88	119.70
1	N	698	G	N1-C2-N3	-5.30	120.72	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	851	G	C5-C6-N1	-5.30	108.85	111.50
1	N	916	U	C5-C6-N1	5.30	125.35	122.70
1	N	1004	A	N1-C2-N3	5.30	131.95	129.30
1	N	1036	A	N9-C4-C5	-5.30	103.68	105.80
1	N	420	U	C2-N3-C4	-5.30	123.82	127.00
1	N	637	C	P-O5'-C5'	5.30	129.38	120.90
1	N	13	U	N3-C2-O2	5.30	125.91	122.20
1	N	36	C	C4-C5-C6	5.30	120.05	117.40
1	N	331	G	N1-C2-N3	-5.30	120.72	123.90
1	N	479	U	N3-C4-C5	-5.30	111.42	114.60
1	N	570	G	P-O3'-C3'	5.30	126.06	119.70
1	N	503	C	C2-N3-C4	5.30	122.55	119.90
1	N	720	C	C2-N3-C4	5.30	122.55	119.90
1	N	882	C	C2-N3-C4	5.30	122.55	119.90
1	N	974	A	C5-C6-N1	-5.30	115.05	117.70
1	N	1050	G	N1-C2-N3	-5.30	120.72	123.90
1	N	1065	U	C6-N1-C2	5.30	124.18	121.00
1	N	1152	A	N3-C4-N9	5.30	131.64	127.40
1	N	1174	G	C5-C6-N1	-5.30	108.85	111.50
1	N	1102	A	O4'-C1'-N9	5.30	112.44	108.20
1	N	1102	A	C5-C6-N6	-5.30	119.46	123.70
1	N	1147	C	C2'-C3'-O3'	5.30	122.18	113.70
1	N	592	G	C2-N3-C4	-5.30	109.25	111.90
1	N	952	U	C1'-O4'-C4'	5.30	114.14	109.90
1	N	1120	C	C2-N3-C4	5.30	122.55	119.90
1	N	1281	C	C4-C5-C6	5.30	120.05	117.40
1	N	1295	U	C5-C6-N1	5.30	125.35	122.70
1	N	1346	A	C5-N7-C8	5.30	106.55	103.90
1	N	1472	U	C2-N3-C4	5.30	130.18	127.00
1	N	13	U	N1-C2-O2	-5.29	119.09	122.80
1	N	358	U	C2-N3-C4	5.29	130.18	127.00
1	N	623	C	N3-C4-C5	-5.29	119.78	121.90
1	N	950	U	N3-C4-O4	5.29	123.11	119.40
1	N	1159	U	P-O3'-C3'	-5.29	113.35	119.70
1	N	1174	G	N7-C8-N9	5.29	115.75	113.10
1	N	1303	C	N1-C2-O2	5.29	122.08	118.90
1	N	1397	C	N3-C2-O2	-5.29	118.19	121.90
1	N	247	G	C4'-C3'-C2'	-5.29	97.31	102.60
1	N	587	G	O4'-C1'-N9	5.29	112.44	108.20
1	N	781	A	O4'-C4'-C3'	-5.29	98.71	104.00
1	N	994	A	C6-N1-C2	5.29	121.78	118.60
1	N	1038	C	N1-C2-N3	-5.29	115.49	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1326	U	N3-C4-C5	5.29	117.78	114.60
1	N	1402	C	N1-C1'-C2'	-5.29	106.18	112.00
1	N	103	U	C6-N1-C2	-5.29	117.83	121.00
1	N	226	G	C5-N7-C8	-5.29	101.65	104.30
1	N	769	G	N1-C2-N3	-5.29	120.72	123.90
1	N	784	A	C4'-C3'-C2'	-5.29	97.31	102.60
1	N	1156	G	O5'-P-OP2	-5.29	100.94	105.70
1	N	1327	C	C1'-O4'-C4'	5.29	114.13	109.90
1	N	1334	G	C5-N7-C8	5.29	106.94	104.30
1	N	1351	U	P-O3'-C3'	5.29	126.05	119.70
1	N	56	U	N1-C2-O2	-5.29	119.10	122.80
1	N	219	U	N3-C4-O4	5.29	123.10	119.40
1	N	404	G	C6-C5-N7	-5.29	127.23	130.40
1	N	494	G	C1'-O4'-C4'	5.29	114.13	109.90
1	N	809	G	N3-C4-C5	5.29	131.24	128.60
1	N	1121	U	C5'-C4'-C3'	5.29	124.46	116.00
1	N	473	U	C6-N1-C2	5.29	124.17	121.00
1	N	1041	G	C5'-C4'-O4'	5.29	115.44	109.10
1	N	1192	C	C5-C6-N1	5.29	123.64	121.00
1	N	83	C	C5-C4-N4	5.29	123.90	120.20
1	N	368	U	N3-C2-O2	-5.29	118.50	122.20
1	N	385	C	N3-C4-N4	5.29	121.70	118.00
1	N	834	U	C5-C6-N1	-5.29	120.06	122.70
1	N	1435	G	C5-C6-N1	-5.29	108.86	111.50
1	N	167	A	C5-C6-N1	-5.28	115.06	117.70
1	N	209	U	C2-N3-C4	5.28	130.17	127.00
1	N	613	C	N3-C4-N4	5.28	121.70	118.00
1	N	672	U	C6-N1-C2	-5.28	117.83	121.00
1	N	1046	A	C5'-C4'-O4'	5.28	115.44	109.10
1	N	1271	A	C2-N3-C4	5.28	113.24	110.60
1	N	1514	G	C8-N9-C4	-5.28	104.29	106.40
1	N	86	G	P-O3'-C3'	5.28	126.04	119.70
1	N	493	A	C4'-C3'-C2'	-5.28	97.32	102.60
1	N	1513	A	P-O5'-C5'	-5.28	112.45	120.90
1	N	79	G	C4-C5-N7	5.28	112.91	110.80
1	N	246	A	N7-C8-N9	5.28	116.44	113.80
1	N	303	A	P-O3'-C3'	-5.28	113.36	119.70
1	N	800	G	C8-N9-C4	5.28	108.51	106.40
1	N	1146	A	C5-C6-N1	-5.28	115.06	117.70
1	N	1432	G	O4'-C1'-N9	5.28	112.42	108.20
1	N	1525	G	C6-N1-C2	5.28	128.27	125.10
1	N	357	G	C4'-C3'-C2'	-5.28	97.32	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	755	G	O4'-C1'-N9	5.28	112.42	108.20
1	N	756	C	N1-C1'-C2'	-5.28	106.19	112.00
1	N	1375	A	N9-C4-C5	-5.28	103.69	105.80
1	N	211	G	N7-C8-N9	-5.28	110.46	113.10
1	N	795	C	C6-N1-C1'	-5.28	114.47	120.80
1	N	158	G	P-O3'-C3'	-5.28	113.37	119.70
1	N	174	A	N3-C4-N9	5.28	131.62	127.40
1	N	284	C	N1-C2-O2	5.28	122.06	118.90
1	N	335	C	N3-C4-N4	5.28	121.69	118.00
1	N	356	A	N3-C4-N9	-5.28	123.18	127.40
1	N	835	U	C5-C4-O4	-5.28	122.73	125.90
1	N	1098	C	C5'-C4'-C3'	5.28	124.44	116.00
1	N	1114	C	N3-C2-O2	5.28	125.59	121.90
1	N	115	G	N3-C4-N9	5.27	129.16	126.00
1	N	690	G	P-O3'-C3'	-5.27	113.37	119.70
1	N	247	G	C2-N3-C4	5.27	114.54	111.90
1	N	515	G	N3-C4-N9	5.27	129.16	126.00
1	N	606	G	N1-C2-N2	-5.27	111.45	116.20
1	N	1111	A	OP2-P-O3'	5.27	116.80	105.20
1	N	517	G	C3'-C2'-C1'	5.27	105.72	101.50
1	N	530	G	C4-C5-N7	-5.27	108.69	110.80
1	N	639	G	C5-C6-N1	5.27	114.14	111.50
1	N	1118	U	N3-C4-O4	5.27	123.09	119.40
1	N	46	G	N3-C4-C5	-5.27	125.97	128.60
1	N	272	C	C4-C5-C6	5.27	120.03	117.40
1	N	364	A	P-O5'-C5'	-5.27	112.47	120.90
1	N	1099	G	C3'-C2'-C1'	-5.27	97.28	101.50
1	N	1192	C	C4-C5-C6	5.27	120.03	117.40
1	N	1372	U	N3-C4-O4	5.27	123.09	119.40
1	N	26	A	C5-C6-N6	-5.27	119.48	123.70
1	N	238	A	N9-C4-C5	5.27	107.91	105.80
1	N	359	G	C2-N3-C4	5.27	114.53	111.90
1	N	620	C	N3-C4-N4	5.27	121.69	118.00
1	N	714	G	C5-N7-C8	-5.27	101.67	104.30
1	N	785	G	C8-N9-C4	5.27	108.51	106.40
1	N	1009	U	C2-N3-C4	5.27	130.16	127.00
1	N	1267	C	C2-N3-C4	5.27	122.53	119.90
1	N	88	U	O4'-C1'-N1	5.27	112.41	108.20
1	N	271	C	N1-C2-N3	-5.27	115.51	119.20
1	N	465	A	C4-C5-C6	5.27	119.63	117.00
1	N	1196	A	C3'-C2'-C1'	-5.27	97.29	101.50
1	N	1442	G	C5'-C4'-C3'	5.27	124.43	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1512	U	N1-C2-N3	-5.27	111.74	114.90
1	N	354	G	O4'-C1'-C2'	-5.26	100.54	105.80
1	N	415	A	N3-C4-C5	-5.26	123.11	126.80
1	N	1027	C	C5'-C4'-O4'	5.26	115.42	109.10
1	N	1305	G	C6-N1-C2	5.26	128.26	125.10
1	N	1454	G	C5-N7-C8	5.26	106.93	104.30
1	N	219	U	O4'-C4'-C3'	-5.26	98.74	104.00
1	N	651	C	C6-N1-C1'	-5.26	114.48	120.80
1	N	814	A	C5-C6-N1	-5.26	115.07	117.70
1	N	1022	A	P-O5'-C5'	-5.26	112.48	120.90
1	N	460	A	O4'-C1'-N9	5.26	112.41	108.20
1	N	484	G	C6-N1-C2	5.26	128.26	125.10
1	N	867	G	C5-C6-N1	-5.26	108.87	111.50
1	N	894	G	O4'-C1'-N9	5.26	112.41	108.20
1	N	1133	G	C8-N9-C4	-5.26	104.30	106.40
1	N	1236	A	C6-C5-N7	-5.26	128.62	132.30
1	N	1432	G	C5-C6-N1	-5.26	108.87	111.50
1	N	216	U	C5-C6-N1	5.26	125.33	122.70
1	N	466	A	C4-C5-N7	-5.26	108.07	110.70
1	N	588	G	C2-N3-C4	5.26	114.53	111.90
1	N	770	C	C6-N1-C1'	-5.26	114.49	120.80
1	N	811	C	N3-C4-N4	5.26	121.68	118.00
1	N	1024	G	N7-C8-N9	5.26	115.73	113.10
1	N	690	G	C5'-C4'-O4'	5.26	115.41	109.10
1	N	1386	G	C8-N9-C4	-5.26	104.30	106.40
1	N	1347	G	C4'-C3'-C2'	-5.26	97.34	102.60
1	N	536	C	C5'-C4'-C3'	5.25	124.41	116.00
1	N	608	A	C5-N7-C8	5.25	106.53	103.90
1	N	1144	G	O4'-C1'-N9	5.25	112.40	108.20
1	N	543	U	C2-N3-C4	5.25	130.15	127.00
1	N	304	U	C5'-C4'-C3'	-5.25	107.60	116.00
1	N	756	C	C4'-C3'-C2'	-5.25	97.35	102.60
1	N	1255	G	C4-C5-C6	5.25	121.95	118.80
1	N	1368	A	C4-C5-N7	-5.25	108.07	110.70
1	N	178	C	O4'-C4'-C3'	-5.25	98.75	104.00
1	N	600	A	C4-C5-C6	5.25	119.62	117.00
1	N	883	C	N3-C4-N4	5.25	121.67	118.00
1	N	941	G	N3-C2-N2	5.25	123.58	119.90
1	N	979	C	N1-C2-O2	-5.25	115.75	118.90
1	N	1129	C	O4'-C1'-C2'	5.25	112.33	107.60
1	N	1255	G	C3'-C2'-C1'	5.25	105.70	101.50
1	N	1290	G	P-O3'-C3'	-5.25	113.40	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	4	U	N3-C4-O4	5.25	123.07	119.40
1	N	159	G	C2-N3-C4	5.25	114.52	111.90
1	N	344	A	OP1-P-OP2	-5.25	111.73	119.60
1	N	467	U	C6-N1-C1'	-5.25	113.85	121.20
1	N	484	G	C3'-C2'-C1'	5.25	105.70	101.50
1	N	1216	A	C5'-C4'-O4'	5.25	115.40	109.10
1	N	1484	C	C5'-C4'-C3'	-5.25	107.60	116.00
1	N	718	A	C3'-C2'-C1'	5.25	105.70	101.50
1	N	1120	C	N1-C2-O2	-5.25	115.75	118.90
1	N	1130	A	C8-N9-C4	-5.25	103.70	105.80
1	N	1225	A	C6-N1-C2	5.25	121.75	118.60
1	N	292	G	C6-C5-N7	-5.25	127.25	130.40
1	N	547	A	O4'-C1'-N9	5.25	112.40	108.20
1	N	418	C	N3-C2-O2	5.24	125.57	121.90
1	N	523	A	N1-C2-N3	5.24	131.92	129.30
1	N	544	G	O3'-P-O5'	-5.24	94.04	104.00
1	N	572	A	N1-C2-N3	5.24	131.92	129.30
1	N	703	G	N1-C2-N3	-5.24	120.75	123.90
1	N	1239	A	C8-N9-C1'	5.24	137.14	127.70
1	N	1434	A	C5'-C4'-C3'	5.24	124.39	116.00
1	N	782	A	N7-C8-N9	-5.24	111.18	113.80
1	N	934	C	C2-N1-C1'	5.24	124.57	118.80
1	N	1124	G	C3'-C2'-C1'	-5.24	97.31	101.50
1	N	1363	A	C5'-C4'-O4'	5.24	115.39	109.10
1	N	1443	C	C2-N3-C4	-5.24	117.28	119.90
1	N	493	A	O4'-C1'-N9	5.24	112.39	108.20
1	N	547	A	C4-C5-C6	5.24	119.62	117.00
1	N	668	G	C3'-C2'-C1'	5.24	105.69	101.50
1	N	948	C	O4'-C1'-N1	5.24	112.39	108.20
1	N	1010	U	N1-C2-O2	-5.24	119.13	122.80
1	N	1068	G	C5-N7-C8	5.24	106.92	104.30
1	N	1074	G	C5'-C4'-O4'	5.24	115.39	109.10
1	N	1256	A	C4-C5-N7	-5.24	108.08	110.70
1	N	1299	A	C8-N9-C4	5.24	107.90	105.80
1	N	227	G	C6-C5-N7	-5.24	127.26	130.40
1	N	268	U	N3-C4-O4	5.24	123.07	119.40
1	N	272	C	C6-N1-C1'	-5.24	114.51	120.80
1	N	447	G	C4-C5-N7	5.24	112.90	110.80
1	N	538	G	C6-N1-C2	5.24	128.24	125.10
1	N	594	U	N1-C2-N3	-5.24	111.76	114.90
1	N	756	C	N3-C4-C5	-5.24	119.81	121.90
1	N	888	G	C5'-C4'-C3'	-5.24	107.62	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1188	A	P-O5'-C5'	-5.24	112.52	120.90
1	N	1531	A	C8-N9-C1'	-5.24	118.27	127.70
1	N	104	G	N7-C8-N9	5.24	115.72	113.10
1	N	152	A	C4'-C3'-C2'	-5.24	97.36	102.60
1	N	381	C	C2-N3-C4	-5.24	117.28	119.90
1	N	1075	U	O5'-C5'-C4'	-5.24	101.75	111.70
1	N	747	A	N3-C4-C5	-5.23	123.14	126.80
1	N	850	U	O5'-C5'-C4'	-5.23	101.75	111.70
1	N	41	G	P-O3'-C3'	-5.23	113.42	119.70
1	N	99	C	N1-C2-O2	5.23	122.04	118.90
1	N	493	A	C4-C5-N7	5.23	113.32	110.70
1	N	549	C	C2-N1-C1'	-5.23	113.04	118.80
1	N	554	A	C1'-O4'-C4'	5.23	114.09	109.90
1	N	661	G	O4'-C4'-C3'	-5.23	98.77	104.00
1	N	717	U	C6-N1-C2	-5.23	117.86	121.00
1	N	750	C	C2-N3-C4	-5.23	117.28	119.90
1	N	807	A	C4-C5-C6	5.23	119.62	117.00
1	N	1063	C	N1-C2-O2	5.23	122.04	118.90
1	N	53	A	N3-C4-C5	-5.23	123.14	126.80
1	N	302	G	C2-N3-C4	5.23	114.52	111.90
1	N	877	G	C2-N3-C4	-5.23	109.28	111.90
1	N	908	A	C4-C5-C6	5.23	119.61	117.00
1	N	1108	G	C6-C5-N7	-5.23	127.26	130.40
1	N	1154	G	C2-N3-C4	5.23	114.52	111.90
1	N	1516	G	N3-C4-N9	-5.23	122.86	126.00
1	N	582	C	O4'-C4'-C3'	-5.23	98.77	104.00
1	N	658	C	C2-N1-C1'	5.23	124.55	118.80
1	N	1196	A	N7-C8-N9	-5.23	111.19	113.80
1	N	14	U	N3-C4-C5	-5.23	111.46	114.60
1	N	170	U	C2-N3-C4	-5.23	123.86	127.00
1	N	186	C	C4-C5-C6	-5.23	114.79	117.40
1	N	384	G	N3-C4-C5	-5.23	125.99	128.60
1	N	1018	G	C2-N3-C4	5.23	114.51	111.90
1	N	1489	G	C8-N9-C4	5.23	108.49	106.40
1	N	105	G	P-O5'-C5'	5.23	129.26	120.90
1	N	210	C	N1-C2-O2	5.23	122.04	118.90
1	N	691	G	C2-N3-C4	-5.23	109.29	111.90
1	N	931	C	C4-C5-C6	5.23	120.01	117.40
1	N	1363	A	C2-N3-C4	-5.23	107.99	110.60
1	N	55	A	O4'-C1'-N9	5.22	112.38	108.20
1	N	730	G	N1-C6-O6	5.22	123.03	119.90
1	N	763	G	C5-C6-O6	-5.22	125.47	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	885	G	C4-C5-C6	5.22	121.93	118.80
1	N	1194	U	C5-C4-O4	-5.22	122.77	125.90
1	N	1197	A	C4-C5-C6	5.22	119.61	117.00
1	N	1227	A	O4'-C1'-N9	5.22	112.38	108.20
1	N	844	G	C5'-C4'-O4'	5.22	115.37	109.10
1	N	1363	A	C3'-C2'-C1'	-5.22	97.32	101.50
1	N	796	C	N1-C2-O2	-5.22	115.77	118.90
1	N	1266	G	C6-C5-N7	-5.22	127.27	130.40
1	N	38	G	C6-C5-N7	-5.22	127.27	130.40
1	N	730	G	P-O3'-C3'	5.22	125.96	119.70
1	N	347	G	N1-C2-N2	-5.22	111.50	116.20
1	N	1515	G	N1-C2-N3	-5.22	120.77	123.90
1	N	192	A	C6-C5-N7	-5.22	128.65	132.30
1	N	450	G	O4'-C1'-N9	5.22	112.37	108.20
1	N	454	G	C4-C5-N7	5.22	112.89	110.80
1	N	721	G	O4'-C1'-N9	5.22	112.37	108.20
1	N	831	A	C5-N7-C8	-5.22	101.29	103.90
1	N	174	A	C8-N9-C4	5.21	107.89	105.80
1	N	917	G	C2-N3-C4	-5.21	109.29	111.90
1	N	1062	U	N3-C4-O4	5.21	123.05	119.40
1	N	1234	C	N3-C4-C5	-5.21	119.81	121.90
1	N	1122	U	C4'-C3'-C2'	-5.21	97.39	102.60
1	N	19	A	O4'-C1'-N9	5.21	112.37	108.20
1	N	127	G	N3-C4-C5	5.21	131.21	128.60
1	N	289	G	P-O5'-C5'	-5.21	112.56	120.90
1	N	443	C	C5-C4-N4	-5.21	116.55	120.20
1	N	953	G	C4-C5-C6	5.21	121.93	118.80
1	N	1292	G	C5-C6-N1	-5.21	108.89	111.50
1	N	171	A	C4-N9-C1'	5.21	135.68	126.30
1	N	279	A	C1'-O4'-C4'	5.21	114.07	109.90
1	N	434	U	O4'-C4'-C3'	-5.21	98.79	104.00
1	N	1257	A	C5-C6-N1	-5.21	115.10	117.70
1	N	73	C	O5'-P-OP2	5.21	116.95	110.70
1	N	151	A	C4-C5-C6	5.21	119.60	117.00
1	N	428	G	O5'-P-OP2	5.21	116.95	110.70
1	N	1141	C	N3-C4-C5	-5.21	119.82	121.90
1	N	1389	C	C5-C4-N4	-5.21	116.56	120.20
1	N	982	U	C2-N3-C4	-5.21	123.88	127.00
1	N	1024	G	P-O3'-C3'	-5.21	113.45	119.70
1	N	1339	A	N1-C2-N3	-5.21	126.70	129.30
1	N	1347	G	N3-C4-C5	-5.21	126.00	128.60
1	N	1516	G	N1-C2-N3	-5.21	120.78	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	323	U	O5'-C5'-C4'	-5.20	101.81	111.70
1	N	613	C	C2-N1-C1'	5.20	124.52	118.80
1	N	1192	C	P-O5'-C5'	-5.20	112.58	120.90
1	N	584	G	C4-N9-C1'	5.20	133.26	126.50
1	N	742	G	N1-C2-N3	-5.20	120.78	123.90
1	N	960	U	C1'-O4'-C4'	-5.20	105.74	109.90
1	N	1508	A	C5-C6-N1	-5.20	115.10	117.70
1	N	608	A	P-O5'-C5'	5.20	129.22	120.90
1	N	702	A	C4-N9-C1'	5.20	135.66	126.30
1	N	913	A	N7-C8-N9	5.20	116.40	113.80
1	N	930	C	C4-C5-C6	5.20	120.00	117.40
1	N	1106	G	P-O5'-C5'	-5.20	112.58	120.90
1	N	1201	A	C2-N3-C4	-5.20	108.00	110.60
1	N	1238	A	C4-C5-N7	5.20	113.30	110.70
1	N	1435	G	C6-C5-N7	-5.20	127.28	130.40
1	N	199	A	C4'-C3'-C2'	-5.20	97.40	102.60
1	N	254	G	N3-C4-N9	-5.20	122.88	126.00
1	N	347	G	C5'-C4'-C3'	-5.20	107.68	116.00
1	N	362	G	C4-C5-N7	-5.20	108.72	110.80
1	N	984	C	P-O3'-C3'	5.20	125.94	119.70
1	N	1082	A	C5'-C4'-C3'	-5.20	107.68	116.00
1	N	1116	U	P-O3'-C3'	-5.20	113.46	119.70
1	N	1223	C	C5'-C4'-O4'	5.20	115.34	109.10
1	N	1330	U	C5-C6-N1	5.20	125.30	122.70
1	N	29	U	C1'-O4'-C4'	-5.20	105.74	109.90
1	N	784	A	C4-C5-C6	5.20	119.60	117.00
1	N	805	C	N1-C2-N3	-5.20	115.56	119.20
1	N	342	C	O3'-P-O5'	-5.20	94.13	104.00
1	N	710	G	C4-C5-N7	5.20	112.88	110.80
1	N	843	U	C6-N1-C1'	-5.20	113.93	121.20
1	N	174	A	C2-N3-C4	5.19	113.20	110.60
1	N	198	G	C6-N1-C2	5.19	128.22	125.10
1	N	961	U	N3-C4-O4	-5.19	115.76	119.40
1	N	161	A	C3'-C2'-C1'	-5.19	97.35	101.50
1	N	729	A	N3-C4-C5	-5.19	123.17	126.80
1	N	898	G	O4'-C1'-N9	5.19	112.36	108.20
1	N	1205	U	C5-C4-O4	5.19	129.01	125.90
1	N	1378	C	O5'-C5'-C4'	-5.19	101.83	111.70
1	N	1387	G	N3-C2-N2	5.19	123.53	119.90
1	N	1530	G	C6-C5-N7	-5.19	127.28	130.40
1	N	34	C	C6-N1-C1'	-5.19	114.57	120.80
1	N	346	G	C8-N9-C1'	-5.19	120.25	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	417	G	N9-C4-C5	5.19	107.48	105.40
1	N	813	U	N3-C2-O2	5.19	125.83	122.20
1	N	1264	U	N3-C4-O4	5.19	123.03	119.40
1	N	1401	G	C4-C5-C6	5.19	121.91	118.80
1	N	704	A	O4'-C4'-C3'	-5.19	98.81	104.00
1	N	1066	C	C5'-C4'-C3'	-5.19	107.70	116.00
1	N	1117	A	O5'-C5'-C4'	-5.19	101.84	111.70
1	N	1251	A	N1-C2-N3	-5.19	126.71	129.30
1	N	313	A	C5-C6-N6	-5.19	119.55	123.70
1	N	745	G	N1-C2-N3	-5.19	120.79	123.90
1	N	1499	A	C8-N9-C4	-5.19	103.72	105.80
1	N	564	C	C6-N1-C2	-5.19	118.23	120.30
1	N	760	G	C2-N3-C4	5.19	114.49	111.90
1	N	1269	A	C8-N9-C1'	5.19	137.03	127.70
1	N	256	U	C3'-C2'-C1'	-5.18	97.35	101.50
1	N	608	A	C5-C6-N1	-5.18	115.11	117.70
1	N	888	G	C6-N1-C2	5.18	128.21	125.10
1	N	1091	U	C1'-O4'-C4'	5.18	114.05	109.90
1	N	1204	A	C4-C5-C6	5.18	119.59	117.00
1	N	1218	C	N1-C2-N3	-5.18	115.57	119.20
1	N	1375	A	C5-C6-N1	-5.18	115.11	117.70
1	N	1495	U	OP1-P-O3'	5.18	116.60	105.20
1	N	1529	G	C3'-C2'-C1'	-5.18	97.35	101.50
1	N	772	U	N3-C2-O2	-5.18	118.57	122.20
1	N	937	A	C5-C6-N1	-5.18	115.11	117.70
1	N	1132	C	N3-C2-O2	-5.18	118.27	121.90
1	N	1273	C	N3-C2-O2	5.18	125.53	121.90
1	N	1370	G	N1-C6-O6	5.18	123.01	119.90
1	N	58	C	C5-C6-N1	5.18	123.59	121.00
1	N	434	U	N1-C2-N3	-5.18	111.79	114.90
1	N	629	A	OP1-P-OP2	-5.18	111.83	119.60
1	N	794	A	C8-N9-C4	-5.18	103.73	105.80
1	N	861	G	N3-C4-C5	-5.18	126.01	128.60
1	N	1521	C	N3-C4-N4	5.18	121.63	118.00
1	N	72	A	C4-C5-C6	5.18	119.59	117.00
1	N	94	G	OP1-P-OP2	-5.18	111.83	119.60
1	N	236	A	C8-N9-C4	-5.18	103.73	105.80
1	N	348	G	C6-C5-N7	-5.18	127.29	130.40
1	N	516	U	C6-N1-C2	5.18	124.11	121.00
1	N	676	A	N1-C2-N3	-5.18	126.71	129.30
1	N	856	C	C2-N3-C4	5.18	122.49	119.90
1	N	1079	G	P-O3'-C3'	5.18	125.92	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1300	G	C3'-C2'-C1'	-5.18	97.36	101.50
1	N	1447	A	C3'-C2'-C1'	5.18	105.64	101.50
1	N	384	G	P-O5'-C5'	5.18	129.19	120.90
1	N	992	U	C2-N1-C1'	5.18	123.91	117.70
1	N	15	G	N1-C2-N2	5.18	120.86	116.20
1	N	44	A	OP1-P-OP2	-5.18	111.84	119.60
1	N	255	G	O5'-C5'-C4'	-5.18	101.86	111.70
1	N	325	A	O4'-C4'-C3'	-5.18	98.82	104.00
1	N	425	G	O5'-C5'-C4'	-5.18	101.87	111.70
1	N	514	C	C5-C4-N4	-5.18	116.58	120.20
1	N	595	A	O4'-C1'-C2'	-5.18	100.62	105.80
1	N	652	U	C3'-C2'-C1'	5.18	105.64	101.50
1	N	655	A	C5-N7-C8	5.18	106.49	103.90
1	N	804	U	N3-C4-O4	5.18	123.02	119.40
1	N	977	A	C5-C6-N1	-5.18	115.11	117.70
1	N	992	U	P-O3'-C3'	5.18	125.91	119.70
1	N	1098	C	C5-C4-N4	-5.18	116.58	120.20
1	N	1254	A	C1'-O4'-C4'	-5.18	105.76	109.90
1	N	1374	A	C5'-C4'-O4'	5.18	115.31	109.10
1	N	369	G	C4-C5-N7	5.17	112.87	110.80
1	N	537	G	O4'-C1'-N9	5.17	112.34	108.20
1	N	687	A	P-O3'-C3'	-5.17	113.49	119.70
1	N	1361	G	N1-C6-O6	5.17	123.00	119.90
1	N	1431	A	C5-C6-N1	-5.17	115.11	117.70
1	N	255	G	N3-C4-N9	5.17	129.10	126.00
1	N	610	U	C2-N3-C4	-5.17	123.90	127.00
1	N	830	G	C1'-O4'-C4'	5.17	114.04	109.90
1	N	887	G	C8-N9-C1'	5.17	133.72	127.00
1	N	1310	G	C2-N3-C4	5.17	114.49	111.90
1	N	1441	A	C5-C6-N6	-5.17	119.56	123.70
1	N	109	A	C5-N7-C8	5.17	106.49	103.90
1	N	664	G	C4-C5-C6	5.17	121.90	118.80
1	N	670	G	C8-N9-C1'	5.17	133.72	127.00
1	N	731	G	C1'-O4'-C4'	-5.17	105.76	109.90
1	N	512	U	C5-C4-O4	-5.17	122.80	125.90
1	N	747	A	C8-N9-C4	-5.17	103.73	105.80
1	N	892	A	C5-N7-C8	5.17	106.48	103.90
1	N	1389	C	N3-C2-O2	5.17	125.52	121.90
1	N	242	G	P-O3'-C3'	-5.17	113.50	119.70
1	N	337	G	O4'-C4'-C3'	-5.17	98.83	104.00
1	N	595	A	C4-N9-C1'	5.17	135.60	126.30
1	N	802	A	C1'-O4'-C4'	5.17	114.03	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	861	G	C4-C5-N7	-5.17	108.73	110.80
1	N	971	G	C3'-C2'-C1'	5.17	105.64	101.50
1	N	1419	G	O4'-C1'-N9	5.17	112.33	108.20
1	N	158	G	N1-C2-N3	-5.17	120.80	123.90
1	N	368	U	P-O3'-C3'	5.17	125.90	119.70
1	N	675	A	C8-N9-C4	-5.17	103.73	105.80
1	N	1238	A	C4'-C3'-C2'	5.17	107.77	102.60
1	N	184	G	OP2-P-O3'	5.17	116.56	105.20
1	N	421	U	N3-C2-O2	5.17	125.81	122.20
1	N	356	A	C5-C6-N1	-5.16	115.12	117.70
1	N	482	A	N1-C6-N6	5.16	121.70	118.60
1	N	540	G	C3'-C2'-C1'	5.16	105.63	101.50
1	N	794	A	C6-N1-C2	-5.16	115.50	118.60
1	N	1472	U	N3-C4-O4	5.16	123.01	119.40
1	N	111	G	N1-C2-N3	-5.16	120.80	123.90
1	N	220	G	C4-C5-N7	-5.16	108.73	110.80
1	N	406	G	N9-C1'-C2'	-5.16	106.32	112.00
1	N	1098	C	N1-C1'-C2'	-5.16	106.32	112.00
1	N	173	U	C2-N1-C1'	5.16	123.89	117.70
1	N	763	G	C4-C5-C6	5.16	121.90	118.80
1	N	866	C	O4'-C1'-N1	5.16	112.33	108.20
1	N	881	G	N3-C2-N2	5.16	123.51	119.90
1	N	1033	G	C5-C6-O6	-5.16	125.50	128.60
1	N	1267	C	O4'-C1'-C2'	-5.16	100.64	105.80
1	N	1403	C	OP1-P-O3'	5.16	116.56	105.20
1	N	1420	U	C4-C5-C6	-5.16	116.60	119.70
1	N	1495	U	C6-N1-C2	-5.16	117.90	121.00
1	N	211	G	N1-C2-N3	-5.16	120.81	123.90
1	N	255	G	OP1-P-O3'	5.16	116.55	105.20
1	N	402	G	C6-N1-C2	5.16	128.20	125.10
1	N	733	G	C4-C5-N7	5.16	112.86	110.80
1	N	1205	U	C1'-O4'-C4'	5.16	114.03	109.90
1	N	1459	G	O4'-C1'-C2'	-5.16	100.64	105.80
1	N	110	C	C5'-C4'-C3'	5.16	124.25	116.00
1	N	423	G	N3-C2-N2	5.16	123.51	119.90
1	N	637	C	C6-N1-C2	-5.16	118.24	120.30
1	N	846	G	N1-C2-N3	-5.16	120.81	123.90
1	N	915	A	N9-C4-C5	-5.16	103.74	105.80
1	N	943	U	C5-C6-N1	5.16	125.28	122.70
1	N	1519	A	O4'-C1'-N9	5.16	112.32	108.20
1	N	228	A	N3-C4-C5	5.15	130.41	126.80
1	N	869	G	C5'-C4'-O4'	5.15	115.28	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	132	C	C5-C6-N1	-5.15	118.42	121.00
1	N	590	U	N3-C4-C5	-5.15	111.51	114.60
1	N	633	G	O5'-P-OP2	5.15	116.88	110.70
1	N	1042	A	O3'-P-O5'	-5.15	94.21	104.00
1	N	1072	G	C8-N9-C4	5.15	108.46	106.40
1	N	1516	G	N7-C8-N9	-5.15	110.52	113.10
1	N	138	G	C1'-O4'-C4'	5.15	114.02	109.90
1	N	201	G	N1-C2-N3	-5.15	120.81	123.90
1	N	68	G	N1-C2-N3	-5.15	120.81	123.90
1	N	172	A	C6-C5-N7	-5.15	128.69	132.30
1	N	1357	A	C4-C5-C6	5.15	119.58	117.00
1	N	311	C	C4'-C3'-C2'	-5.15	97.45	102.60
1	N	439	U	C1'-O4'-C4'	5.15	114.02	109.90
1	N	666	G	C6-C5-N7	-5.15	127.31	130.40
1	N	698	G	N1-C6-O6	5.15	122.99	119.90
1	N	1371	G	N1-C2-N3	-5.15	120.81	123.90
1	N	1443	C	N1-C2-O2	-5.15	115.81	118.90
1	N	258	G	C5'-C4'-O4'	5.15	115.28	109.10
1	N	293	G	C4-C5-C6	5.15	121.89	118.80
1	N	711	G	C4-N9-C1'	-5.15	119.81	126.50
1	N	928	G	C5'-C4'-C3'	-5.15	107.77	116.00
1	N	1145	A	C2-N3-C4	-5.15	108.03	110.60
1	N	313	A	C1'-O4'-C4'	-5.14	105.78	109.90
1	N	328	C	C4-C5-C6	5.14	119.97	117.40
1	N	330	C	N3-C4-N4	5.14	121.60	118.00
1	N	655	A	N9-C4-C5	5.14	107.86	105.80
1	N	1366	C	C2-N3-C4	5.14	122.47	119.90
1	N	216	U	C4'-C3'-C2'	-5.14	97.46	102.60
1	N	510	A	C2-N3-C4	-5.14	108.03	110.60
1	N	703	G	C1'-O4'-C4'	5.14	114.01	109.90
1	N	929	G	C5-C6-N1	-5.14	108.93	111.50
1	N	944	G	N1-C6-O6	5.14	122.98	119.90
1	N	984	C	C3'-C2'-C1'	5.14	105.61	101.50
1	N	1122	U	C2-N1-C1'	5.14	123.87	117.70
1	N	1283	U	C6-N1-C1'	-5.14	114.00	121.20
1	N	71	A	C3'-C2'-C1'	5.14	105.61	101.50
1	N	132	C	C4'-C3'-C2'	-5.14	97.46	102.60
1	N	928	G	C4-C5-N7	5.14	112.86	110.80
1	N	1253	G	O3'-P-O5'	5.14	113.77	104.00
1	N	1268	G	C5-C6-O6	5.14	131.69	128.60
1	N	1399	C	C2-N3-C4	5.14	122.47	119.90
1	N	1467	C	C4-C5-C6	5.14	119.97	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	595	A	C8-N9-C4	5.14	107.86	105.80
1	N	1170	A	C5-C6-N1	5.14	120.27	117.70
1	N	874	G	C5-N7-C8	5.14	106.87	104.30
1	N	94	G	N9-C4-C5	-5.14	103.35	105.40
1	N	357	G	C4-C5-C6	5.14	121.88	118.80
1	N	417	G	N1-C6-O6	5.14	122.98	119.90
1	N	109	A	O4'-C1'-N9	5.13	112.31	108.20
1	N	127	G	O4'-C1'-C2'	-5.13	100.67	105.80
1	N	201	G	C4-C5-N7	5.13	112.85	110.80
1	N	235	C	C3'-C2'-C1'	5.13	105.61	101.50
1	N	273	U	O3'-P-O5'	-5.13	94.24	104.00
1	N	416	G	C6-C5-N7	-5.13	127.32	130.40
1	N	537	G	OP1-P-OP2	-5.13	111.90	119.60
1	N	576	C	O4'-C4'-C3'	5.13	110.21	106.10
1	N	785	G	C2-N3-C4	5.13	114.47	111.90
1	N	852	G	C5-C6-N1	5.13	114.07	111.50
1	N	1039	G	C6-C5-N7	-5.13	127.32	130.40
1	N	1247	U	N3-C4-O4	-5.13	115.81	119.40
1	N	1297	G	C5-C6-O6	-5.13	125.52	128.60
1	N	208	U	N3-C4-C5	-5.13	111.52	114.60
1	N	1105	A	N9-C4-C5	5.13	107.85	105.80
1	N	1169	A	C2-N3-C4	-5.13	108.03	110.60
1	N	1199	U	C5-C6-N1	5.13	125.27	122.70
1	N	152	A	C2-N3-C4	5.13	113.17	110.60
1	N	390	U	N1-C2-N3	5.13	117.98	114.90
1	N	416	G	C5-N7-C8	-5.13	101.73	104.30
1	N	883	C	C3'-C2'-C1'	5.13	105.61	101.50
1	N	901	A	C5'-C4'-O4'	5.13	115.26	109.10
1	N	1048	G	C5-N7-C8	5.13	106.87	104.30
1	N	1523	G	C3'-C2'-C1'	5.13	105.61	101.50
1	N	19	A	C4-C5-C6	5.13	119.56	117.00
1	N	248	C	P-O3'-C3'	-5.13	113.54	119.70
1	N	905	U	N1-C2-O2	-5.13	119.21	122.80
1	N	12	U	C5'-C4'-C3'	5.13	124.21	116.00
1	N	242	G	N1-C2-N3	-5.13	120.82	123.90
1	N	301	G	N1-C2-N3	-5.13	120.82	123.90
1	N	311	C	C5'-C4'-O4'	5.13	115.25	109.10
1	N	448	A	C1'-O4'-C4'	5.13	114.00	109.90
1	N	648	A	C4-N9-C1'	5.13	135.53	126.30
1	N	794	A	C5'-C4'-C3'	-5.13	107.79	116.00
1	N	1026	G	O4'-C4'-C3'	-5.13	98.87	104.00
1	N	72	A	OP1-P-OP2	-5.13	111.91	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	762	U	C5-C4-O4	-5.13	122.83	125.90
1	N	777	A	N7-C8-N9	5.13	116.36	113.80
1	N	790	A	C2-N3-C4	5.13	113.16	110.60
1	N	858	G	C3'-C2'-C1'	-5.13	97.40	101.50
1	N	1184	G	N1-C2-N2	-5.13	111.59	116.20
1	N	1459	G	C4-N9-C1'	-5.13	119.83	126.50
1	N	1319	A	C3'-C2'-C1'	5.12	105.60	101.50
1	N	191	G	C6-N1-C2	5.12	128.17	125.10
1	N	651	C	C5'-C4'-C3'	-5.12	107.80	116.00
1	N	715	A	C6-N1-C2	5.12	121.67	118.60
1	N	725	G	N1-C2-N3	-5.12	120.83	123.90
1	N	905	U	C4'-C3'-C2'	5.12	107.72	102.60
1	N	954	G	N9-C4-C5	5.12	107.45	105.40
1	N	1034	G	C5-N7-C8	5.12	106.86	104.30
1	N	1167	A	C5-N7-C8	5.12	106.46	103.90
1	N	1218	C	P-O3'-C3'	-5.12	113.55	119.70
1	N	537	G	C6-C5-N7	-5.12	127.33	130.40
1	N	597	G	N1-C2-N3	-5.12	120.83	123.90
1	N	801	U	C6-N1-C2	-5.12	117.93	121.00
1	N	1015	G	C4-C5-N7	-5.12	108.75	110.80
1	N	1090	U	C4'-C3'-C2'	-5.12	97.48	102.60
1	N	525	C	C5-C4-N4	-5.12	116.62	120.20
1	N	749	A	C5-N7-C8	5.12	106.46	103.90
1	N	791	G	N7-C8-N9	-5.12	110.54	113.10
1	N	937	A	N1-C2-N3	5.12	131.86	129.30
1	N	1045	C	C1'-O4'-C4'	-5.12	105.80	109.90
1	N	1412	C	P-O3'-C3'	5.12	125.84	119.70
1	N	95	C	C3'-C2'-C1'	5.12	105.59	101.50
1	N	248	C	C2-N1-C1'	5.12	124.43	118.80
1	N	261	U	C2-N3-C4	5.12	130.07	127.00
1	N	514	C	C4'-C3'-C2'	-5.12	97.48	102.60
1	N	538	G	C5-C6-O6	-5.12	125.53	128.60
1	N	1021	A	C5-C6-N1	-5.12	115.14	117.70
1	N	1462	C	P-O5'-C5'	5.12	129.09	120.90
1	N	1502	A	C5-N7-C8	5.12	106.46	103.90
1	N	424	G	N1-C2-N3	-5.12	120.83	123.90
1	N	1088	G	C5-N7-C8	-5.12	101.74	104.30
1	N	549	C	N1-C2-O2	5.12	121.97	118.90
1	N	640	A	P-O3'-C3'	-5.12	113.56	119.70
1	N	874	G	N9-C1'-C2'	-5.12	106.37	112.00
1	N	1402	C	C2-N1-C1'	5.12	124.43	118.80
1	N	342	C	N3-C4-N4	5.11	121.58	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	472	U	P-O5'-C5'	5.11	129.08	120.90
1	N	480	U	OP2-P-O3'	5.11	116.45	105.20
1	N	588	G	C3'-C2'-C1'	-5.11	97.41	101.50
1	N	886	G	N3-C2-N2	5.11	123.48	119.90
1	N	1079	G	N1-C2-N2	-5.11	111.60	116.20
1	N	533	A	C5-C6-N6	-5.11	119.61	123.70
1	N	81	A	C2-N3-C4	5.11	113.16	110.60
1	N	486	U	N3-C2-O2	5.11	125.78	122.20
1	N	667	G	C5'-C4'-O4'	5.11	115.23	109.10
1	N	711	G	C8-N9-C1'	5.11	133.64	127.00
1	N	1048	G	C4'-C3'-C2'	-5.11	97.49	102.60
1	N	1479	C	O4'-C1'-N1	5.11	112.29	108.20
1	N	792	A	C5-C6-N6	-5.11	119.61	123.70
1	N	168	G	C6-C5-N7	-5.11	127.33	130.40
1	N	326	G	P-O5'-C5'	-5.11	112.73	120.90
1	N	574	A	C5-N7-C8	5.11	106.45	103.90
1	N	687	A	O4'-C1'-N9	5.11	112.29	108.20
1	N	778	G	C4-N9-C1'	5.11	133.14	126.50
1	N	897	C	N3-C2-O2	-5.11	118.32	121.90
1	N	965	U	C5-C4-O4	-5.11	122.84	125.90
1	N	981	U	O4'-C4'-C3'	-5.11	98.89	104.00
1	N	1208	C	C5-C4-N4	5.11	123.78	120.20
1	N	1238	A	O3'-P-O5'	-5.11	94.30	104.00
1	N	1331	G	C4-C5-N7	-5.11	108.76	110.80
1	N	733	G	O4'-C1'-N9	5.11	112.28	108.20
1	N	851	G	N9-C4-C5	-5.11	103.36	105.40
1	N	861	G	N9-C4-C5	5.11	107.44	105.40
1	N	1378	C	C4-C5-C6	5.11	119.95	117.40
1	N	1525	G	N9-C4-C5	5.11	107.44	105.40
1	N	686	U	N3-C4-C5	-5.10	111.54	114.60
1	N	1504	G	C5-C6-O6	-5.10	125.54	128.60
1	N	16	A	N7-C8-N9	-5.10	111.25	113.80
1	N	254	G	N1-C2-N3	-5.10	120.84	123.90
1	N	541	G	C4-N9-C1'	-5.10	119.87	126.50
1	N	813	U	OP2-P-O3'	5.10	116.42	105.20
1	N	1161	C	N1-C2-O2	-5.10	115.84	118.90
1	N	1270	G	C5'-C4'-O4'	5.10	115.22	109.10
1	N	1350	A	C8-N9-C4	-5.10	103.76	105.80
1	N	527	G	N1-C2-N2	5.10	120.79	116.20
1	N	865	A	C6-C5-N7	-5.10	128.73	132.30
1	N	1114	C	N1-C2-O2	-5.10	115.84	118.90
1	N	3	A	C1'-O4'-C4'	-5.10	105.82	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	154	U	C4-C5-C6	5.10	122.76	119.70
1	N	267	C	C2-N3-C4	5.10	122.45	119.90
1	N	670	G	C4'-C3'-C2'	-5.10	97.50	102.60
1	N	696	A	O4'-C1'-N9	5.10	112.28	108.20
1	N	151	A	C5-C6-N1	-5.10	115.15	117.70
1	N	158	G	OP1-P-OP2	-5.10	111.95	119.60
1	N	635	A	C6-N1-C2	5.10	121.66	118.60
1	N	937	A	C2'-C3'-O3'	5.10	121.86	113.70
1	N	1209	C	C1'-O4'-C4'	-5.10	105.82	109.90
1	N	655	A	C8-N9-C1'	-5.10	118.53	127.70
1	N	692	U	O4'-C1'-N1	5.10	112.28	108.20
1	N	1391	U	N1-C2-O2	-5.10	119.23	122.80
1	N	1465	A	C5-C6-N6	-5.10	119.62	123.70
1	N	272	C	O3'-P-O5'	-5.09	94.32	104.00
1	N	272	C	N3-C4-C5	-5.09	119.86	121.90
1	N	540	G	N1-C2-N3	-5.09	120.84	123.90
1	N	588	G	P-O3'-C3'	-5.09	113.59	119.70
1	N	648	A	C8-N9-C4	-5.09	103.76	105.80
1	N	946	A	O5'-P-OP2	-5.09	101.11	105.70
1	N	964	A	C6-N1-C2	5.09	121.66	118.60
1	N	1076	U	C5-C4-O4	-5.09	122.84	125.90
1	N	1092	A	N9-C4-C5	5.09	107.84	105.80
1	N	1434	A	N1-C6-N6	5.09	121.66	118.60
1	N	1327	C	N1-C2-O2	-5.09	115.84	118.90
1	N	869	G	C4'-C3'-C2'	-5.09	97.51	102.60
1	N	990	C	P-O3'-C3'	-5.09	113.59	119.70
1	N	1343	G	C5'-C4'-C3'	-5.09	107.85	116.00
1	N	1028	C	C5'-C4'-O4'	5.09	115.21	109.10
1	N	1198	G	C2-N3-C4	5.09	114.44	111.90
1	N	1217	C	C5-C4-N4	-5.09	116.64	120.20
1	N	1469	C	N3-C4-N4	5.09	121.56	118.00
1	N	263	A	C3'-C2'-C1'	-5.09	97.43	101.50
1	N	941	G	C4'-C3'-C2'	-5.09	97.51	102.60
1	N	1293	C	C5'-C4'-O4'	5.09	115.20	109.10
1	N	68	G	C3'-C2'-C1'	5.09	105.57	101.50
1	N	103	U	N1-C2-N3	-5.09	111.85	114.90
1	N	133	U	C3'-C2'-C1'	5.09	105.57	101.50
1	N	351	G	C5-N7-C8	-5.09	101.76	104.30
1	N	692	U	C3'-C2'-C1'	5.09	105.57	101.50
1	N	733	G	P-O5'-C5'	-5.09	112.76	120.90
1	N	773	G	C5-C6-O6	-5.09	125.55	128.60
1	N	880	C	C2-N1-C1'	5.09	124.40	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1002	G	C8-N9-C1'	5.09	133.61	127.00
1	N	1043	G	C2'-C3'-O3'	5.09	121.84	113.70
1	N	1053	G	C2-N3-C4	5.09	114.44	111.90
1	N	1245	C	N3-C2-O2	5.09	125.46	121.90
1	N	1531	A	O5'-P-OP2	-5.09	101.12	105.70
1	N	1534	A	C5-N7-C8	5.09	106.44	103.90
1	N	388	G	C5'-C4'-C3'	-5.08	107.86	116.00
1	N	623	C	N1-C2-O2	-5.08	115.85	118.90
1	N	753	A	C3'-C2'-C1'	-5.08	97.43	101.50
1	N	1170	A	C6-C5-N7	-5.08	128.74	132.30
1	N	1298	U	C6-N1-C2	5.08	124.05	121.00
1	N	305	G	C5-N7-C8	5.08	106.84	104.30
1	N	388	G	C3'-C2'-C1'	5.08	105.57	101.50
1	N	518	C	P-O3'-C3'	5.08	125.80	119.70
1	N	852	G	P-O5'-C5'	-5.08	112.77	120.90
1	N	1143	G	C5'-C4'-C3'	-5.08	107.87	116.00
1	N	686	U	C2'-C3'-O3'	5.08	121.83	113.70
1	N	890	G	P-O3'-C3'	-5.08	113.60	119.70
1	N	1038	C	C5-C6-N1	5.08	123.54	121.00
1	N	1068	G	C4-N9-C1'	5.08	133.11	126.50
1	N	1511	G	C4-C5-N7	-5.08	108.77	110.80
1	N	693	G	N7-C8-N9	-5.08	110.56	113.10
1	N	1197	A	C2-N3-C4	-5.08	108.06	110.60
1	N	272	C	C5-C6-N1	-5.08	118.46	121.00
1	N	490	C	C5-C6-N1	-5.08	118.46	121.00
1	N	526	C	P-O5'-C5'	-5.08	112.77	120.90
1	N	887	G	C2'-C3'-O3'	5.08	121.83	113.70
1	N	1018	G	C6-C5-N7	-5.08	127.35	130.40
1	N	1465	A	N9-C4-C5	5.08	107.83	105.80
1	N	741	G	C6-C5-N7	-5.08	127.35	130.40
1	N	789	U	C2-N1-C1'	5.08	123.79	117.70
1	N	1419	G	N3-C4-N9	-5.08	122.95	126.00
1	N	140	U	C2-N3-C4	5.08	130.05	127.00
1	N	578	C	N1-C2-N3	-5.08	115.65	119.20
1	N	163	C	C5-C6-N1	-5.07	118.46	121.00
1	N	360	G	C5-N7-C8	5.07	106.84	104.30
1	N	819	A	N1-C2-N3	-5.07	126.76	129.30
1	N	904	U	C2-N3-C4	5.07	130.04	127.00
1	N	1059	C	C2-N1-C1'	-5.07	113.22	118.80
1	N	1130	A	C2-N3-C4	-5.07	108.06	110.60
1	N	1229	A	C2-N3-C4	-5.07	108.06	110.60
1	N	1271	A	C5'-C4'-C3'	-5.07	107.88	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1372	U	N1-C2-N3	5.07	117.94	114.90
1	N	1398	A	N3-C4-N9	5.07	131.46	127.40
1	N	250	A	C4-C5-C6	5.07	119.53	117.00
1	N	302	G	N1-C2-N2	5.07	120.76	116.20
1	N	740	U	P-O3'-C3'	-5.07	113.61	119.70
1	N	996	A	C6-C5-N7	-5.07	128.75	132.30
1	N	1003	G	N1-C2-N3	-5.07	120.86	123.90
1	N	1053	G	O5'-C5'-C4'	-5.07	102.07	111.70
1	N	1246	A	C4-C5-N7	-5.07	108.16	110.70
1	N	223	A	C6-C5-N7	-5.07	128.75	132.30
1	N	899	C	C6-N1-C1'	-5.07	114.72	120.80
1	N	1265	C	C5-C6-N1	5.07	123.53	121.00
1	N	209	U	C5'-C4'-C3'	-5.07	107.89	116.00
1	N	328	C	N3-C2-O2	5.07	125.45	121.90
1	N	416	G	C5-C6-O6	-5.07	125.56	128.60
1	N	787	A	N3-C4-N9	-5.07	123.35	127.40
1	N	925	G	N3-C2-N2	5.07	123.45	119.90
1	N	1476	A	N9-C4-C5	5.07	107.83	105.80
1	N	415	A	N7-C8-N9	-5.07	111.27	113.80
1	N	482	A	N9-C4-C5	-5.07	103.77	105.80
1	N	532	A	N1-C2-N3	5.07	131.83	129.30
1	N	590	U	C5'-C4'-C3'	5.07	124.10	116.00
1	N	595	A	C4-C5-C6	5.07	119.53	117.00
1	N	793	U	N3-C4-C5	-5.07	111.56	114.60
1	N	808	C	O4'-C4'-C3'	-5.07	98.94	104.00
1	N	1309	G	C5'-C4'-C3'	5.07	124.11	116.00
1	N	447	G	N9-C1'-C2'	-5.06	106.43	112.00
1	N	1008	U	N3-C4-C5	-5.06	111.56	114.60
1	N	1241	G	N1-C2-N2	-5.06	111.64	116.20
1	N	40	C	O4'-C1'-N1	5.06	112.25	108.20
1	N	75	G	O4'-C1'-N9	5.06	112.25	108.20
1	N	102	G	C4-C5-C6	5.06	121.84	118.80
1	N	204	G	C3'-C2'-C1'	-5.06	97.45	101.50
1	N	447	G	N7-C8-N9	-5.06	110.57	113.10
1	N	702	A	N3-C4-C5	-5.06	123.26	126.80
1	N	944	G	C4-C5-C6	5.06	121.84	118.80
1	N	1043	G	N1-C2-N3	-5.06	120.86	123.90
1	N	694	A	N9-C1'-C2'	-5.06	106.43	112.00
1	N	1238	A	C6-C5-N7	-5.06	128.76	132.30
1	N	1498	U	N3-C4-O4	-5.06	115.86	119.40
1	N	279	A	C8-N9-C4	-5.06	103.78	105.80
1	N	707	U	P-O5'-C5'	5.06	129.00	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	815	A	C5-C6-N1	-5.06	115.17	117.70
1	N	1272	G	C5'-C4'-O4'	5.06	115.17	109.10
1	N	9	G	N3-C2-N2	5.06	123.44	119.90
1	N	106	C	N3-C2-O2	5.06	125.44	121.90
1	N	279	A	C6-C5-N7	-5.06	128.76	132.30
1	N	766	A	O3'-P-O5'	-5.06	94.39	104.00
1	N	1305	G	O4'-C1'-N9	5.06	112.25	108.20
1	N	1316	G	C4-C5-C6	5.06	121.83	118.80
1	N	1413	A	C5-C6-N6	-5.06	119.65	123.70
1	N	1092	A	C8-N9-C4	-5.06	103.78	105.80
1	N	727	G	N1-C2-N2	-5.05	111.65	116.20
1	N	754	C	O4'-C1'-C2'	5.05	112.15	107.60
1	N	1219	A	OP2-P-O3'	5.05	116.32	105.20
1	N	1308	U	P-O5'-C5'	5.05	128.99	120.90
1	N	1373	G	C1'-O4'-C4'	-5.05	105.86	109.90
1	N	1451	U	C6-N1-C1'	-5.05	114.12	121.20
1	N	251	G	C5'-C4'-O4'	5.05	115.16	109.10
1	N	32	A	C4-C5-N7	5.05	113.23	110.70
1	N	193	C	O5'-C5'-C4'	-5.05	102.10	111.70
1	N	573	A	N9-C1'-C2'	5.05	120.57	114.00
1	N	691	G	N3-C4-N9	5.05	129.03	126.00
1	N	825	A	C3'-C2'-C1'	-5.05	97.46	101.50
1	N	895	G	C4-N9-C1'	-5.05	119.93	126.50
1	N	936	C	C5'-C4'-O4'	5.05	115.16	109.10
1	N	1530	G	O5'-C5'-C4'	5.05	121.30	111.70
1	N	416	G	N9-C4-C5	5.05	107.42	105.40
1	N	461	A	N1-C6-N6	5.05	121.63	118.60
1	N	463	U	O4'-C4'-C3'	-5.05	98.95	104.00
1	N	527	G	N3-C4-N9	5.05	129.03	126.00
1	N	581	G	O4'-C1'-N9	5.05	112.24	108.20
1	N	721	G	C5-N7-C8	5.05	106.83	104.30
1	N	952	U	C6-N1-C1'	-5.05	114.13	121.20
1	N	52	C	P-O3'-C3'	-5.05	113.64	119.70
1	N	300	A	C1'-O4'-C4'	5.05	113.94	109.90
1	N	845	A	P-O3'-C3'	5.05	125.76	119.70
1	N	944	G	C6-N1-C2	5.05	128.13	125.10
1	N	1289	A	P-O3'-C3'	-5.05	113.64	119.70
1	N	139	A	C6-N1-C2	-5.05	115.57	118.60
1	N	212	G	C6-N1-C2	-5.05	122.07	125.10
1	N	562	U	N3-C4-O4	5.05	122.93	119.40
1	N	771	G	C1'-O4'-C4'	5.05	113.94	109.90
1	N	1057	G	O4'-C1'-N9	5.05	112.24	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1115	U	OP1-P-O3'	5.05	116.30	105.20
1	N	1227	A	C4'-C3'-C2'	5.05	107.65	102.60
1	N	1405	G	O4'-C4'-C3'	-5.05	98.95	104.00
1	N	1454	G	C4-C5-C6	5.04	121.83	118.80
1	N	205	A	C4-C5-C6	5.04	119.52	117.00
1	N	524	G	C5-C6-O6	-5.04	125.57	128.60
1	N	770	C	N3-C2-O2	5.04	125.43	121.90
1	N	821	G	C4-C5-N7	5.04	112.82	110.80
1	N	1088	G	C4'-C3'-C2'	-5.04	97.56	102.60
1	N	1109	C	C2-N1-C1'	5.04	124.35	118.80
1	N	1208	C	N3-C2-O2	5.04	125.43	121.90
1	N	1408	A	C3'-C2'-C1'	-5.04	97.46	101.50
1	N	1487	G	P-O3'-C3'	5.04	125.75	119.70
1	N	1519	A	C8-N9-C4	-5.04	103.78	105.80
1	N	32	A	C5-N7-C8	-5.04	101.38	103.90
1	N	197	A	N9-C4-C5	5.04	107.82	105.80
1	N	273	U	N1-C1'-C2'	5.04	120.56	114.00
1	N	645	G	C4'-C3'-C2'	-5.04	97.56	102.60
1	N	651	C	C5-C6-N1	5.04	123.52	121.00
1	N	780	A	C4-C5-N7	5.04	113.22	110.70
1	N	919	A	O4'-C1'-N9	5.04	112.23	108.20
1	N	1456	A	N3-C4-N9	5.04	131.43	127.40
1	N	369	G	C6-C5-N7	-5.04	127.38	130.40
1	N	445	G	C8-N9-C1'	5.04	133.55	127.00
1	N	1071	C	O4'-C1'-C2'	-5.04	100.76	105.80
1	N	113	G	C2-N3-C4	5.04	114.42	111.90
1	N	238	A	C6-C5-N7	5.04	135.83	132.30
1	N	266	G	C5-C6-O6	-5.04	125.58	128.60
1	N	845	A	P-O5'-C5'	-5.04	112.84	120.90
1	N	933	G	N9-C4-C5	-5.04	103.38	105.40
1	N	1097	C	C3'-C2'-C1'	5.04	105.53	101.50
1	N	1100	C	C5-C4-N4	-5.04	116.67	120.20
1	N	1299	A	O4'-C1'-N9	5.04	112.23	108.20
1	N	1476	A	N3-C4-C5	-5.04	123.27	126.80
1	N	295	C	C2-N1-C1'	5.04	124.34	118.80
1	N	23	C	N3-C4-C5	-5.04	119.89	121.90
1	N	70	U	P-O3'-C3'	5.04	125.74	119.70
1	N	306	A	C8-N9-C4	-5.04	103.79	105.80
1	N	751	U	O4'-C4'-C3'	5.04	110.13	106.10
1	N	882	C	C1'-O4'-C4'	5.04	113.93	109.90
1	N	1015	G	C3'-C2'-C1'	5.04	105.53	101.50
1	N	1023	U	C4-C5-C6	5.04	122.72	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1082	A	C8-N9-C4	-5.04	103.79	105.80
1	N	1303	C	N3-C4-N4	5.04	121.53	118.00
1	N	1324	A	P-O3'-C3'	-5.04	113.66	119.70
1	N	33	A	C5'-C4'-C3'	5.03	124.05	116.00
1	N	212	G	C2'-C3'-O3'	5.03	121.75	113.70
1	N	362	G	P-O3'-C3'	5.03	125.74	119.70
1	N	506	G	N3-C4-N9	-5.03	122.98	126.00
1	N	631	C	C2-N1-C1'	5.03	124.34	118.80
1	N	981	U	N3-C4-C5	5.03	117.62	114.60
1	N	1444	U	OP2-P-O3'	5.03	116.27	105.20
1	N	1060	U	C4-C5-C6	5.03	122.72	119.70
1	N	1242	G	C6-N1-C2	5.03	128.12	125.10
1	N	1363	A	N3-C4-N9	-5.03	123.37	127.40
1	N	271	C	C6-N1-C1'	-5.03	114.76	120.80
1	N	282	A	C5-N7-C8	5.03	106.42	103.90
1	N	816	A	N1-C2-N3	-5.03	126.78	129.30
1	N	1003	G	C4-C5-N7	-5.03	108.79	110.80
1	N	1160	G	C4-N9-C1'	-5.03	119.96	126.50
1	N	1289	A	C6-N1-C2	-5.03	115.58	118.60
1	N	1395	C	O4'-C1'-N1	5.03	112.22	108.20
1	N	1459	G	O4'-C1'-N9	5.03	112.22	108.20
1	N	538	G	C2-N3-C4	-5.03	109.39	111.90
1	N	795	C	C3'-C2'-C1'	5.03	105.52	101.50
1	N	1442	G	N3-C4-N9	5.03	129.02	126.00
1	N	115	G	C4-C5-N7	-5.03	108.79	110.80
1	N	314	C	N3-C2-O2	5.03	125.42	121.90
1	N	546	A	P-O5'-C5'	-5.03	112.85	120.90
1	N	785	G	P-O5'-C5'	5.03	128.94	120.90
1	N	947	G	O4'-C1'-N9	5.03	112.22	108.20
1	N	952	U	N3-C2-O2	5.03	125.72	122.20
1	N	974	A	P-O5'-C5'	5.03	128.94	120.90
1	N	1285	A	C5-C6-N1	-5.03	115.19	117.70
1	N	1495	U	P-O3'-C3'	5.03	125.73	119.70
1	N	14	U	C4'-C3'-C2'	-5.03	97.58	102.60
1	N	148	G	C5-N7-C8	-5.03	101.79	104.30
1	N	1363	A	C4-C5-N7	-5.03	108.19	110.70
1	N	1368	A	C6-N1-C2	5.03	121.61	118.60
1	N	6	G	C6-N1-C2	-5.02	122.09	125.10
1	N	70	U	O3'-P-O5'	-5.02	94.45	104.00
1	N	236	A	C2-N3-C4	-5.02	108.09	110.60
1	N	854	U	O4'-C1'-N1	5.02	112.22	108.20
1	N	1225	A	C5'-C4'-O4'	5.02	115.13	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1418	A	C5-N7-C8	5.02	106.41	103.90
1	N	1503	A	N3-C4-N9	-5.02	123.38	127.40
1	N	385	C	O5'-C5'-C4'	-5.02	102.16	111.70
1	N	664	G	C2-N3-C4	-5.02	109.39	111.90
1	N	701	U	C5'-C4'-O4'	5.02	115.13	109.10
1	N	888	G	N7-C8-N9	5.02	115.61	113.10
1	N	1267	C	C3'-C2'-C1'	5.02	105.52	101.50
1	N	1512	U	OP1-P-OP2	-5.02	112.07	119.60
1	N	441	A	N7-C8-N9	5.02	116.31	113.80
1	N	530	G	N3-C4-C5	5.02	131.11	128.60
1	N	718	A	C1'-O4'-C4'	5.02	113.92	109.90
1	N	275	G	C8-N9-C4	-5.02	104.39	106.40
1	N	627	G	C6-C5-N7	-5.02	127.39	130.40
1	N	705	G	C2-N3-C4	5.02	114.41	111.90
1	N	738	C	N3-C2-O2	5.02	125.41	121.90
1	N	935	A	C8-N9-C4	-5.02	103.79	105.80
1	N	951	G	N3-C4-N9	5.02	129.01	126.00
1	N	1258	G	O4'-C1'-N9	5.02	112.22	108.20
1	N	460	A	C1'-O4'-C4'	5.02	113.92	109.90
1	N	626	G	N3-C4-N9	5.02	129.01	126.00
1	N	691	G	C6-N1-C2	5.02	128.11	125.10
1	N	890	G	N3-C4-N9	5.02	129.01	126.00
1	N	1044	A	C5-C6-N1	-5.02	115.19	117.70
1	N	540	G	C6-C5-N7	-5.02	127.39	130.40
1	N	599	C	O4'-C4'-C3'	5.02	110.11	106.10
1	N	755	G	C1'-O4'-C4'	5.02	113.91	109.90
1	N	1461	G	N1-C6-O6	5.02	122.91	119.90
1	N	367	U	O4'-C1'-C2'	-5.01	100.79	105.80
1	N	482	A	C8-N9-C4	5.01	107.81	105.80
1	N	854	U	N1-C2-N3	-5.01	111.89	114.90
1	N	1179	A	C5'-C4'-O4'	5.01	115.12	109.10
1	N	1298	U	N3-C2-O2	5.01	125.71	122.20
1	N	1456	A	O4'-C4'-C3'	-5.01	98.99	104.00
1	N	681	A	O4'-C4'-C3'	-5.01	98.99	104.00
1	N	1418	A	P-O5'-C5'	5.01	128.92	120.90
1	N	143	A	N1-C2-N3	5.01	131.81	129.30
1	N	189	A	OP1-P-OP2	-5.01	112.08	119.60
1	N	501	C	C5-C6-N1	5.01	123.50	121.00
1	N	600	A	P-O5'-C5'	5.01	128.92	120.90
1	N	646	G	P-O3'-C3'	5.01	125.72	119.70
1	N	747	A	P-O3'-C3'	5.01	125.71	119.70
1	N	806	C	OP1-P-OP2	-5.01	112.08	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1041	G	O4'-C4'-C3'	-5.01	98.99	104.00
1	N	1092	A	C1'-O4'-C4'	5.01	113.91	109.90
1	N	1193	G	C4-N9-C1'	5.01	133.01	126.50
1	N	1399	C	C4-C5-C6	5.01	119.91	117.40
1	N	399	G	O4'-C1'-N9	5.01	112.21	108.20
1	N	923	A	C6-C5-N7	-5.01	128.79	132.30
1	N	1179	A	C5-N7-C8	5.01	106.40	103.90
1	N	1266	G	C5-C6-N1	5.01	114.00	111.50
1	N	85	U	C6-N1-C2	5.01	124.00	121.00
1	N	156	C	O4'-C1'-C2'	-5.01	100.79	105.80
1	N	1119	C	O4'-C4'-C3'	-5.01	98.99	104.00
1	N	52	C	C5-C6-N1	5.01	123.50	121.00
1	N	68	G	C5-N7-C8	5.01	106.80	104.30
1	N	68	G	N3-C4-C5	5.01	131.10	128.60
1	N	178	C	OP1-P-OP2	-5.01	112.09	119.60
1	N	280	C	C3'-C2'-C1'	-5.01	97.50	101.50
1	N	1008	U	C3'-C2'-C1'	5.01	105.50	101.50
1	N	1474	U	OP1-P-OP2	-5.01	112.09	119.60
1	N	1486	G	C5-C6-O6	-5.01	125.60	128.60
1	N	578	C	C1'-O4'-C4'	-5.00	105.90	109.90
1	N	65	A	C8-N9-C1'	5.00	136.71	127.70
1	N	210	C	O3'-P-O5'	-5.00	94.49	104.00
1	N	336	A	C5'-C4'-O4'	5.00	115.10	109.10
1	N	479	U	C5'-C4'-O4'	5.00	115.11	109.10
1	N	812	G	N3-C4-C5	-5.00	126.10	128.60
1	N	906	A	C5-C6-N6	-5.00	119.70	123.70
1	N	1210	C	C4'-C3'-C2'	-5.00	97.60	102.60
1	N	1266	G	C6-N1-C2	-5.00	122.10	125.10
1	N	1442	G	P-O5'-C5'	5.00	128.91	120.90
1	N	233	C	C5'-C4'-O4'	5.00	115.10	109.10
1	N	366	A	C5'-C4'-O4'	-5.00	103.10	109.10
1	N	487	A	C6-N1-C2	5.00	121.60	118.60
1	N	663	A	C6-N1-C2	5.00	121.60	118.60
1	N	1426	G	O4'-C1'-N9	5.00	112.20	108.20

There are no chirality outliers.

All (971) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	N	10	A	Sidechain
1	N	100	G	Sidechain
1	N	1000	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1002	G	Sidechain
1	N	1003	G	Sidechain
1	N	1004	A	Sidechain
1	N	1005	A	Sidechain
1	N	1006	G	Sidechain
1	N	1007	U	Sidechain
1	N	1008	U	Sidechain
1	N	1009	U	Sidechain
1	N	101	A	Sidechain
1	N	1011	C	Sidechain
1	N	1013	G	Sidechain
1	N	1015	G	Sidechain
1	N	102	G	Sidechain
1	N	1024	G	Sidechain
1	N	1025	U	Sidechain
1	N	1026	G	Sidechain
1	N	103	U	Sidechain
1	N	1031	C	Sidechain
1	N	1032	G	Sidechain
1	N	1033	G	Sidechain
1	N	1034	G	Sidechain
1	N	1036	A	Sidechain
1	N	1038	C	Sidechain
1	N	1039	G	Sidechain
1	N	1041	G	Sidechain
1	N	1042	A	Sidechain
1	N	1043	G	Sidechain
1	N	1045	C	Sidechain
1	N	1047	G	Sidechain
1	N	1048	G	Sidechain
1	N	1049	U	Sidechain
1	N	105	G	Sidechain
1	N	1051	C	Sidechain
1	N	1052	U	Sidechain
1	N	1055	A	Sidechain
1	N	1056	U	Sidechain
1	N	1058	G	Sidechain
1	N	1059	C	Sidechain
1	N	1061	G	Sidechain
1	N	1062	U	Sidechain
1	N	1066	C	Sidechain
1	N	1067	A	Sidechain

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Mol	Chain	Res	Type	Group
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	1074	G	Sidechain
1	N	1075	U	Sidechain
1	N	1076	U	Sidechain
1	N	1078	U	Sidechain
1	N	108	G	Sidechain
1	N	1083	U	Sidechain
1	N	1084	G	Sidechain
1	N	1085	U	Sidechain
1	N	1087	G	Sidechain
1	N	1088	G	Sidechain
1	N	1089	G	Sidechain
1	N	109	A	Sidechain
1	N	1090	U	Sidechain
1	N	1091	U	Sidechain
1	N	1093	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	1102	A	Sidechain
1	N	1103	C	Sidechain
1	N	1104	G	Sidechain
1	N	1108	G	Sidechain
1	N	1109	C	Sidechain
1	N	111	G	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	1124	G	Sidechain
1	N	1125	U	Sidechain
1	N	1126	U	Sidechain
1	N	1127	G	Sidechain
1	N	1129	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	113	G	Sidechain
1	N	1130	A	Sidechain
1	N	1131	G	Sidechain
1	N	1132	C	Sidechain
1	N	1133	G	Sidechain
1	N	1135	U	Sidechain
1	N	1137	C	Sidechain
1	N	1139	G	Sidechain
1	N	114	U	Sidechain
1	N	1141	C	Sidechain
1	N	1143	G	Sidechain
1	N	1144	G	Sidechain
1	N	1145	A	Sidechain
1	N	1148	U	Sidechain
1	N	1149	C	Sidechain
1	N	1150	A	Sidechain
1	N	1152	A	Sidechain
1	N	1153	G	Sidechain
1	N	1154	G	Sidechain
1	N	1155	A	Sidechain
1	N	1156	G	Sidechain
1	N	1157	A	Sidechain
1	N	1159	U	Sidechain
1	N	1160	G	Sidechain
1	N	1163	A	Sidechain
1	N	1164	G	Sidechain
1	N	1168	U	Sidechain
1	N	1169	A	Sidechain
1	N	117	G	Sidechain
1	N	1170	A	Sidechain
1	N	1172	C	Sidechain
1	N	1174	G	Sidechain
1	N	1176	A	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	1184	G	Sidechain
1	N	1185	G	Sidechain
1	N	1186	G	Sidechain
1	N	1187	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1188	A	Sidechain
1	N	119	A	Sidechain
1	N	1193	G	Sidechain
1	N	1194	U	Sidechain
1	N	1195	C	Sidechain
1	N	1198	G	Sidechain
1	N	1199	U	Sidechain
1	N	12	U	Sidechain
1	N	1200	C	Sidechain
1	N	1201	A	Sidechain
1	N	1204	A	Sidechain
1	N	1205	U	Sidechain
1	N	1207	G	Sidechain
1	N	121	U	Sidechain
1	N	1210	C	Sidechain
1	N	1211	U	Sidechain
1	N	1214	C	Sidechain
1	N	1218	C	Sidechain
1	N	1219	A	Sidechain
1	N	122	G	Sidechain
1	N	1221	G	Sidechain
1	N	1222	G	Sidechain
1	N	1224	U	Sidechain
1	N	1227	A	Sidechain
1	N	1228	C	Sidechain
1	N	1229	A	Sidechain
1	N	123	U	Sidechain
1	N	1231	G	Sidechain
1	N	1235	U	Sidechain
1	N	1236	A	Sidechain
1	N	1238	A	Sidechain
1	N	1239	A	Sidechain
1	N	1240	U	Sidechain
1	N	1241	G	Sidechain
1	N	1242	G	Sidechain
1	N	1244	G	Sidechain
1	N	1245	C	Sidechain
1	N	1246	A	Sidechain
1	N	1248	A	Sidechain
1	N	125	U	Sidechain
1	N	1251	A	Sidechain
1	N	1252	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1254	A	Sidechain
1	N	1255	G	Sidechain
1	N	1256	A	Sidechain
1	N	1257	A	Sidechain
1	N	1258	G	Sidechain
1	N	1259	C	Sidechain
1	N	126	G	Sidechain
1	N	1260	G	Sidechain
1	N	1261	A	Sidechain
1	N	1266	G	Sidechain
1	N	1267	C	Sidechain
1	N	1268	G	Sidechain
1	N	1269	A	Sidechain
1	N	127	G	Sidechain
1	N	1270	G	Sidechain
1	N	1272	G	Sidechain
1	N	1274	A	Sidechain
1	N	1276	G	Sidechain
1	N	1277	C	Sidechain
1	N	1279	G	Sidechain
1	N	128	G	Sidechain
1	N	1280	A	Sidechain
1	N	1282	C	Sidechain
1	N	1283	U	Sidechain
1	N	1285	A	Sidechain
1	N	1289	A	Sidechain
1	N	1291	U	Sidechain
1	N	1292	G	Sidechain
1	N	1295	U	Sidechain
1	N	1296	C	Sidechain
1	N	1297	G	Sidechain
1	N	1298	U	Sidechain
1	N	130	A	Sidechain
1	N	1301	U	Sidechain
1	N	1302	C	Sidechain
1	N	1304	G	Sidechain
1	N	1305	G	Sidechain
1	N	1306	A	Sidechain
1	N	1308	U	Sidechain
1	N	1309	G	Sidechain
1	N	131	A	Sidechain
1	N	1310	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1311	A	Sidechain
1	N	1313	U	Sidechain
1	N	1314	C	Sidechain
1	N	1315	U	Sidechain
1	N	1316	G	Sidechain
1	N	1318	A	Sidechain
1	N	1319	A	Sidechain
1	N	1322	C	Sidechain
1	N	1324	A	Sidechain
1	N	1327	C	Sidechain
1	N	133	U	Sidechain
1	N	1331	G	Sidechain
1	N	1332	A	Sidechain
1	N	1334	G	Sidechain
1	N	1335	U	Sidechain
1	N	1336	C	Sidechain
1	N	1339	A	Sidechain
1	N	134	G	Sidechain
1	N	1341	U	Sidechain
1	N	1343	G	Sidechain
1	N	1344	C	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	1353	G	Sidechain
1	N	1355	G	Sidechain
1	N	1356	G	Sidechain
1	N	1357	A	Sidechain
1	N	1359	C	Sidechain
1	N	1361	G	Sidechain
1	N	1362	A	Sidechain
1	N	1364	U	Sidechain
1	N	1365	G	Sidechain
1	N	1367	C	Sidechain
1	N	1368	A	Sidechain
1	N	137	U	Sidechain
1	N	1370	G	Sidechain
1	N	1371	G	Sidechain
1	N	1373	G	Sidechain
1	N	1375	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1376	U	Sidechain
1	N	1379	G	Sidechain
1	N	1381	U	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	1388	C	Sidechain
1	N	1389	C	Sidechain
1	N	139	A	Sidechain
1	N	1391	U	Sidechain
1	N	1392	G	Sidechain
1	N	1394	A	Sidechain
1	N	1396	A	Sidechain
1	N	1397	C	Sidechain
1	N	1398	A	Sidechain
1	N	14	U	Sidechain
1	N	1401	G	Sidechain
1	N	1405	G	Sidechain
1	N	1407	C	Sidechain
1	N	1408	A	Sidechain
1	N	1409	C	Sidechain
1	N	141	G	Sidechain
1	N	1410	A	Sidechain
1	N	1411	C	Sidechain
1	N	1413	A	Sidechain
1	N	1414	U	Sidechain
1	N	1417	G	Sidechain
1	N	1418	A	Sidechain
1	N	1419	G	Sidechain
1	N	142	G	Sidechain
1	N	1422	G	Sidechain
1	N	1423	G	Sidechain
1	N	1424	U	Sidechain
1	N	1425	U	Sidechain
1	N	143	A	Sidechain
1	N	1430	A	Sidechain
1	N	1431	A	Sidechain
1	N	1432	G	Sidechain
1	N	1434	A	Sidechain
1	N	1435	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1437	A	Sidechain
1	N	1438	G	Sidechain
1	N	1439	G	Sidechain
1	N	144	G	Sidechain
1	N	1440	U	Sidechain
1	N	1441	A	Sidechain
1	N	1442	G	Sidechain
1	N	1443	C	Sidechain
1	N	1444	U	Sidechain
1	N	1445	U	Sidechain
1	N	1446	A	Sidechain
1	N	1447	A	Sidechain
1	N	1448	C	Sidechain
1	N	1449	C	Sidechain
1	N	1450	U	Sidechain
1	N	1453	G	Sidechain
1	N	1456	A	Sidechain
1	N	1457	G	Sidechain
1	N	1458	G	Sidechain
1	N	1461	G	Sidechain
1	N	1464	U	Sidechain
1	N	1467	C	Sidechain
1	N	1468	A	Sidechain
1	N	1469	C	Sidechain
1	N	147	G	Sidechain
1	N	1470	U	Sidechain
1	N	1472	U	Sidechain
1	N	1473	G	Sidechain
1	N	1475	G	Sidechain
1	N	1477	U	Sidechain
1	N	1478	U	Sidechain
1	N	148	G	Sidechain
1	N	1480	A	Sidechain
1	N	1481	U	Sidechain
1	N	1483	A	Sidechain
1	N	1485	U	Sidechain
1	N	1487	G	Sidechain
1	N	1488	G	Sidechain
1	N	1489	G	Sidechain
1	N	149	A	Sidechain
1	N	1490	U	Sidechain
1	N	1493	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1495	U	Sidechain
1	N	1496	C	Sidechain
1	N	1497	G	Sidechain
1	N	1498	U	Sidechain
1	N	1499	A	Sidechain
1	N	150	U	Sidechain
1	N	1500	A	Sidechain
1	N	1502	A	Sidechain
1	N	1503	A	Sidechain
1	N	1504	G	Sidechain
1	N	1506	U	Sidechain
1	N	1509	C	Sidechain
1	N	1512	U	Sidechain
1	N	1515	G	Sidechain
1	N	1516	G	Sidechain
1	N	1517	G	Sidechain
1	N	152	A	Sidechain
1	N	1521	C	Sidechain
1	N	1523	G	Sidechain
1	N	1524	C	Sidechain
1	N	1528	U	Sidechain
1	N	1530	G	Sidechain
1	N	1532	U	Sidechain
1	N	1533	C	Sidechain
1	N	1534	A	Sidechain
1	N	156	C	Sidechain
1	N	157	U	Sidechain
1	N	158	G	Sidechain
1	N	159	G	Sidechain
1	N	16	A	Sidechain
1	N	160	A	Sidechain
1	N	161	A	Sidechain
1	N	163	C	Sidechain
1	N	164	G	Sidechain
1	N	165	G	Sidechain
1	N	167	A	Sidechain
1	N	168	G	Sidechain
1	N	17	U	Sidechain
1	N	170	U	Sidechain
1	N	171	A	Sidechain
1	N	175	C	Sidechain
1	N	177	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	179	A	Sidechain
1	N	180	U	Sidechain
1	N	181	A	Sidechain
1	N	184	G	Sidechain
1	N	186	C	Sidechain
1	N	187	G	Sidechain
1	N	188	C	Sidechain
1	N	19	A	Sidechain
1	N	190	A	Sidechain
1	N	191	G	Sidechain
1	N	192	A	Sidechain
1	N	193	C	Sidechain
1	N	194	C	Sidechain
1	N	196	A	Sidechain
1	N	197	A	Sidechain
1	N	198	G	Sidechain
1	N	199	A	Sidechain
1	N	2	A	Sidechain
1	N	200	G	Sidechain
1	N	201	G	Sidechain
1	N	203	G	Sidechain
1	N	204	G	Sidechain
1	N	206	C	Sidechain
1	N	208	U	Sidechain
1	N	21	G	Sidechain
1	N	211	G	Sidechain
1	N	212	G	Sidechain
1	N	213	G	Sidechain
1	N	214	C	Sidechain
1	N	215	C	Sidechain
1	N	216	U	Sidechain
1	N	218	U	Sidechain
1	N	22	G	Sidechain
1	N	220	G	Sidechain
1	N	221	C	Sidechain
1	N	224	U	Sidechain
1	N	225	C	Sidechain
1	N	226	G	Sidechain
1	N	227	G	Sidechain
1	N	229	U	Sidechain
1	N	230	G	Sidechain
1	N	231	U	Sidechain

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Mol	Chain	Res	Type	Group
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	239	U	Sidechain
1	N	24	U	Sidechain
1	N	240	G	Sidechain
1	N	241	G	Sidechain
1	N	242	G	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	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	257	G	Sidechain
1	N	258	G	Sidechain
1	N	26	A	Sidechain
1	N	260	G	Sidechain
1	N	263	A	Sidechain
1	N	266	G	Sidechain
1	N	268	U	Sidechain
1	N	269	C	Sidechain
1	N	272	C	Sidechain
1	N	273	U	Sidechain
1	N	274	A	Sidechain
1	N	275	G	Sidechain
1	N	276	G	Sidechain
1	N	28	A	Sidechain
1	N	281	G	Sidechain
1	N	283	U	Sidechain
1	N	284	C	Sidechain
1	N	285	C	Sidechain
1	N	286	C	Sidechain
1	N	287	U	Sidechain
1	N	288	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	29	U	Sidechain
1	N	290	C	Sidechain
1	N	291	U	Sidechain
1	N	292	G	Sidechain
1	N	294	U	Sidechain
1	N	295	C	Sidechain
1	N	296	U	Sidechain
1	N	297	G	Sidechain
1	N	298	A	Sidechain
1	N	299	G	Sidechain
1	N	301	G	Sidechain
1	N	302	G	Sidechain
1	N	309	A	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	320	A	Sidechain
1	N	321	A	Sidechain
1	N	322	C	Sidechain
1	N	323	U	Sidechain
1	N	324	G	Sidechain
1	N	325	A	Sidechain
1	N	326	G	Sidechain
1	N	327	A	Sidechain
1	N	331	G	Sidechain
1	N	335	C	Sidechain
1	N	337	G	Sidechain
1	N	338	A	Sidechain
1	N	339	C	Sidechain
1	N	340	U	Sidechain
1	N	341	C	Sidechain
1	N	343	U	Sidechain
1	N	344	A	Sidechain
1	N	346	G	Sidechain
1	N	347	G	Sidechain
1	N	348	G	Sidechain
1	N	349	A	Sidechain
1	N	350	G	Sidechain
1	N	351	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	352	C	Sidechain
1	N	353	A	Sidechain
1	N	354	G	Sidechain
1	N	355	C	Sidechain
1	N	356	A	Sidechain
1	N	359	G	Sidechain
1	N	360	G	Sidechain
1	N	361	G	Sidechain
1	N	362	G	Sidechain
1	N	363	A	Sidechain
1	N	366	A	Sidechain
1	N	367	U	Sidechain
1	N	369	G	Sidechain
1	N	370	C	Sidechain
1	N	371	A	Sidechain
1	N	372	C	Sidechain
1	N	377	G	Sidechain
1	N	378	G	Sidechain
1	N	38	G	Sidechain
1	N	381	C	Sidechain
1	N	382	A	Sidechain
1	N	383	A	Sidechain
1	N	384	G	Sidechain
1	N	386	C	Sidechain
1	N	387	U	Sidechain
1	N	389	A	Sidechain
1	N	39	G	Sidechain
1	N	390	U	Sidechain
1	N	391	G	Sidechain
1	N	392	C	Sidechain
1	N	393	A	Sidechain
1	N	395	C	Sidechain
1	N	397	A	Sidechain
1	N	398	U	Sidechain
1	N	399	G	Sidechain
1	N	4	U	Sidechain
1	N	401	C	Sidechain
1	N	403	C	Sidechain
1	N	404	G	Sidechain
1	N	406	G	Sidechain
1	N	409	U	Sidechain
1	N	411	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	413	G	Sidechain
1	N	417	G	Sidechain
1	N	419	C	Sidechain
1	N	420	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	43	C	Sidechain
1	N	430	A	Sidechain
1	N	433	G	Sidechain
1	N	434	U	Sidechain
1	N	436	C	Sidechain
1	N	440	C	Sidechain
1	N	442	G	Sidechain
1	N	443	C	Sidechain
1	N	444	G	Sidechain
1	N	445	G	Sidechain
1	N	447	G	Sidechain
1	N	449	G	Sidechain
1	N	45	G	Sidechain
1	N	450	G	Sidechain
1	N	452	A	Sidechain
1	N	453	G	Sidechain
1	N	454	G	Sidechain
1	N	455	G	Sidechain
1	N	458	U	Sidechain
1	N	459	A	Sidechain
1	N	46	G	Sidechain
1	N	460	A	Sidechain
1	N	462	G	Sidechain
1	N	463	U	Sidechain
1	N	465	A	Sidechain
1	N	467	U	Sidechain
1	N	468	A	Sidechain
1	N	469	C	Sidechain
1	N	470	C	Sidechain
1	N	473	U	Sidechain
1	N	474	G	Sidechain
1	N	475	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	476	U	Sidechain
1	N	478	A	Sidechain
1	N	48	C	Sidechain
1	N	480	U	Sidechain
1	N	481	G	Sidechain
1	N	482	A	Sidechain
1	N	483	C	Sidechain
1	N	484	G	Sidechain
1	N	486	U	Sidechain
1	N	489	C	Sidechain
1	N	494	G	Sidechain
1	N	497	G	Sidechain
1	N	498	A	Sidechain
1	N	499	A	Sidechain
1	N	50	A	Sidechain
1	N	500	G	Sidechain
1	N	502	A	Sidechain
1	N	503	C	Sidechain
1	N	504	C	Sidechain
1	N	505	G	Sidechain
1	N	506	G	Sidechain
1	N	508	U	Sidechain
1	N	509	A	Sidechain
1	N	511	C	Sidechain
1	N	513	C	Sidechain
1	N	514	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	525	C	Sidechain
1	N	526	C	Sidechain
1	N	529	G	Sidechain
1	N	530	G	Sidechain
1	N	531	U	Sidechain
1	N	532	A	Sidechain
1	N	533	A	Sidechain
1	N	534	U	Sidechain
1	N	536	C	Sidechain
1	N	537	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	539	A	Sidechain
1	N	54	C	Sidechain
1	N	540	G	Sidechain
1	N	542	G	Sidechain
1	N	543	U	Sidechain
1	N	544	G	Sidechain
1	N	546	A	Sidechain
1	N	547	A	Sidechain
1	N	548	G	Sidechain
1	N	55	A	Sidechain
1	N	552	U	Sidechain
1	N	554	A	Sidechain
1	N	555	U	Sidechain
1	N	559	A	Sidechain
1	N	56	U	Sidechain
1	N	560	A	Sidechain
1	N	562	U	Sidechain
1	N	564	C	Sidechain
1	N	565	U	Sidechain
1	N	566	G	Sidechain
1	N	568	G	Sidechain
1	N	57	G	Sidechain
1	N	570	G	Sidechain
1	N	572	A	Sidechain
1	N	573	A	Sidechain
1	N	574	A	Sidechain
1	N	575	G	Sidechain
1	N	576	C	Sidechain
1	N	579	A	Sidechain
1	N	58	C	Sidechain
1	N	580	C	Sidechain
1	N	581	G	Sidechain
1	N	582	C	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	593	U	Sidechain
1	N	594	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	596	A	Sidechain
1	N	597	G	Sidechain
1	N	598	U	Sidechain
1	N	599	C	Sidechain
1	N	6	G	Sidechain
1	N	60	A	Sidechain
1	N	601	G	Sidechain
1	N	602	A	Sidechain
1	N	603	U	Sidechain
1	N	604	G	Sidechain
1	N	605	U	Sidechain
1	N	606	G	Sidechain
1	N	607	A	Sidechain
1	N	609	A	Sidechain
1	N	61	G	Sidechain
1	N	610	U	Sidechain
1	N	613	C	Sidechain
1	N	614	C	Sidechain
1	N	619	U	Sidechain
1	N	620	C	Sidechain
1	N	621	A	Sidechain
1	N	622	A	Sidechain
1	N	623	C	Sidechain
1	N	624	C	Sidechain
1	N	625	U	Sidechain
1	N	626	G	Sidechain
1	N	627	G	Sidechain
1	N	628	G	Sidechain
1	N	629	A	Sidechain
1	N	63	C	Sidechain
1	N	630	A	Sidechain
1	N	632	U	Sidechain
1	N	636	U	Sidechain
1	N	639	G	Sidechain
1	N	64	G	Sidechain
1	N	641	U	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	649	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	650	G	Sidechain
1	N	651	C	Sidechain
1	N	652	U	Sidechain
1	N	653	U	Sidechain
1	N	655	A	Sidechain
1	N	656	G	Sidechain
1	N	657	U	Sidechain
1	N	66	A	Sidechain
1	N	661	G	Sidechain
1	N	662	U	Sidechain
1	N	663	A	Sidechain
1	N	665	A	Sidechain
1	N	667	G	Sidechain
1	N	668	G	Sidechain
1	N	669	G	Sidechain
1	N	670	G	Sidechain
1	N	672	U	Sidechain
1	N	674	G	Sidechain
1	N	675	A	Sidechain
1	N	676	A	Sidechain
1	N	678	U	Sidechain
1	N	679	C	Sidechain
1	N	68	G	Sidechain
1	N	680	C	Sidechain
1	N	681	A	Sidechain
1	N	682	G	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	692	U	Sidechain
1	N	694	A	Sidechain
1	N	695	A	Sidechain
1	N	70	U	Sidechain
1	N	701	U	Sidechain
1	N	703	G	Sidechain
1	N	704	A	Sidechain
1	N	705	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	707	U	Sidechain
1	N	709	U	Sidechain
1	N	71	A	Sidechain
1	N	714	G	Sidechain
1	N	717	U	Sidechain
1	N	718	A	Sidechain
1	N	72	A	Sidechain
1	N	720	C	Sidechain
1	N	723	U	Sidechain
1	N	724	G	Sidechain
1	N	725	G	Sidechain
1	N	727	G	Sidechain
1	N	729	A	Sidechain
1	N	73	C	Sidechain
1	N	730	G	Sidechain
1	N	732	C	Sidechain
1	N	733	G	Sidechain
1	N	734	G	Sidechain
1	N	739	C	Sidechain
1	N	740	U	Sidechain
1	N	741	G	Sidechain
1	N	742	G	Sidechain
1	N	744	C	Sidechain
1	N	745	G	Sidechain
1	N	747	A	Sidechain
1	N	748	G	Sidechain
1	N	749	A	Sidechain
1	N	75	G	Sidechain
1	N	750	C	Sidechain
1	N	751	U	Sidechain
1	N	752	G	Sidechain
1	N	754	C	Sidechain
1	N	756	C	Sidechain
1	N	757	U	Sidechain
1	N	759	A	Sidechain
1	N	76	G	Sidechain
1	N	760	G	Sidechain
1	N	761	G	Sidechain
1	N	762	U	Sidechain
1	N	763	G	Sidechain
1	N	765	G	Sidechain
1	N	766	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	767	A	Sidechain
1	N	769	G	Sidechain
1	N	77	A	Sidechain
1	N	771	G	Sidechain
1	N	772	U	Sidechain
1	N	773	G	Sidechain
1	N	775	G	Sidechain
1	N	776	G	Sidechain
1	N	777	A	Sidechain
1	N	779	C	Sidechain
1	N	78	A	Sidechain
1	N	780	A	Sidechain
1	N	782	A	Sidechain
1	N	783	C	Sidechain
1	N	784	A	Sidechain
1	N	785	G	Sidechain
1	N	786	G	Sidechain
1	N	788	U	Sidechain
1	N	79	G	Sidechain
1	N	790	A	Sidechain
1	N	792	A	Sidechain
1	N	793	U	Sidechain
1	N	794	A	Sidechain
1	N	795	C	Sidechain
1	N	796	C	Sidechain
1	N	797	C	Sidechain
1	N	798	U	Sidechain
1	N	80	A	Sidechain
1	N	800	G	Sidechain
1	N	801	U	Sidechain
1	N	803	G	Sidechain
1	N	805	C	Sidechain
1	N	808	C	Sidechain
1	N	809	G	Sidechain
1	N	81	A	Sidechain
1	N	810	C	Sidechain
1	N	811	C	Sidechain
1	N	812	G	Sidechain
1	N	814	A	Sidechain
1	N	815	A	Sidechain
1	N	818	G	Sidechain
1	N	819	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	82	G	Sidechain
1	N	824	G	Sidechain
1	N	828	U	Sidechain
1	N	829	G	Sidechain
1	N	83	C	Sidechain
1	N	830	G	Sidechain
1	N	832	G	Sidechain
1	N	833	G	Sidechain
1	N	835	U	Sidechain
1	N	837	U	Sidechain
1	N	838	G	Sidechain
1	N	839	C	Sidechain
1	N	84	U	Sidechain
1	N	842	U	Sidechain
1	N	843	U	Sidechain
1	N	844	G	Sidechain
1	N	845	A	Sidechain
1	N	847	G	Sidechain
1	N	848	C	Sidechain
1	N	849	G	Sidechain
1	N	850	U	Sidechain
1	N	851	G	Sidechain
1	N	852	G	Sidechain
1	N	853	C	Sidechain
1	N	854	U	Sidechain
1	N	855	U	Sidechain
1	N	857	C	Sidechain
1	N	858	G	Sidechain
1	N	859	G	Sidechain
1	N	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	867	G	Sidechain
1	N	868	C	Sidechain
1	N	869	G	Sidechain
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

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Mol	Chain	Res	Type	Group
1	N	875	U	Sidechain
1	N	876	C	Sidechain
1	N	877	G	Sidechain
1	N	88	U	Sidechain
1	N	880	C	Sidechain
1	N	881	G	Sidechain
1	N	882	C	Sidechain
1	N	883	C	Sidechain
1	N	884	U	Sidechain
1	N	885	G	Sidechain
1	N	886	G	Sidechain
1	N	888	G	Sidechain
1	N	889	A	Sidechain
1	N	890	G	Sidechain
1	N	891	U	Sidechain
1	N	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	900	A	Sidechain
1	N	901	A	Sidechain
1	N	902	G	Sidechain
1	N	904	U	Sidechain
1	N	905	U	Sidechain
1	N	906	A	Sidechain
1	N	907	A	Sidechain
1	N	909	A	Sidechain
1	N	91	U	Sidechain
1	N	911	U	Sidechain
1	N	915	A	Sidechain
1	N	917	G	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	924	C	Sidechain
1	N	926	G	Sidechain
1	N	927	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	928	G	Sidechain
1	N	929	G	Sidechain
1	N	93	U	Sidechain
1	N	933	G	Sidechain
1	N	934	C	Sidechain
1	N	937	A	Sidechain
1	N	938	A	Sidechain
1	N	939	G	Sidechain
1	N	94	G	Sidechain
1	N	944	G	Sidechain
1	N	945	G	Sidechain
1	N	946	A	Sidechain
1	N	947	G	Sidechain
1	N	948	C	Sidechain
1	N	950	U	Sidechain
1	N	951	G	Sidechain
1	N	953	G	Sidechain
1	N	954	G	Sidechain
1	N	958	A	Sidechain
1	N	959	A	Sidechain
1	N	961	U	Sidechain
1	N	964	A	Sidechain
1	N	965	U	Sidechain
1	N	966	G	Sidechain
1	N	969	A	Sidechain
1	N	97	G	Sidechain
1	N	972	C	Sidechain
1	N	973	G	Sidechain
1	N	974	A	Sidechain
1	N	976	G	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	988	G	Sidechain
1	N	99	C	Sidechain
1	N	991	U	Sidechain
1	N	993	G	Sidechain
1	N	994	A	Sidechain
1	N	995	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	996	A	Sidechain
1	N	998	C	Sidechain

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	N	32892	16554	16519	568	0
All	All	32892	16554	16519	568	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 12.

All (568) 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:1084:G:H5''	1:N:1099:G:H22	1.46	0.80
1:N:858:G:H1	1:N:869:G:H2'	1.51	0.75
1:N:1004:A:H5'	1:N:1024:G:H22	1.55	0.71
1:N:67:C:H2'	1:N:68:G:C8	2.25	0.71
1:N:1316:G:C2	1:N:1319:A:C8	2.80	0.70
1:N:780:A:C2	1:N:801:U:C5	2.80	0.69
1:N:116:A:H61	1:N:313:A:H1'	1.58	0.68
1:N:1305:G:H22	1:N:1331:G:H2'	1.58	0.67
1:N:904:U:C6	1:N:905:U:C5	2.83	0.66
1:N:1255:G:H2'	1:N:1279:G:H1	1.61	0.65
1:N:105:G:H21	1:N:380:G:H5'	1.60	0.65
1:N:840:C:H1'	1:N:843:U:H3	1.60	0.65
1:N:657:U:H2'	1:N:658:C:C6	2.32	0.65
1:N:1240:U:C6	1:N:1241:G:H5'	2.32	0.64
1:N:804:U:C5	1:N:805:C:C5	2.86	0.64
1:N:668:G:C6	1:N:669:G:C6	2.86	0.63
1:N:1176:A:C6	1:N:1177:G:C6	2.86	0.63
1:N:117:G:H4'	1:N:1425:U:H4'	1.80	0.63
1:N:1240:U:H6	1:N:1241:G:H5'	1.64	0.63
1:N:1483:A:C8	1:N:1484:C:C6	2.87	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:102:G:C6	1:N:103:U:C4	2.88	0.62
1:N:122:G:H21	1:N:290:C:H4'	1.64	0.62
1:N:1434:A:C5	1:N:1435:G:C5	2.88	0.62
1:N:410:G:H2'	1:N:429:U:C5	2.36	0.61
1:N:503:C:O2	1:N:510:A:C2	2.53	0.61
1:N:381:C:C5	1:N:382:A:C5	2.88	0.61
1:N:120:A:C2	1:N:122:G:C6	2.89	0.61
1:N:1434:A:C6	1:N:1435:G:C6	2.89	0.61
1:N:109:A:C5	1:N:326:G:C5	2.88	0.61
1:N:60:A:H5'	1:N:387:U:H4'	1.82	0.61
1:N:596:A:H61	1:N:644:U:H3	1.48	0.61
1:N:934:C:C5	1:N:1345:U:C6	2.89	0.60
1:N:273:U:C4	1:N:274:A:C6	2.90	0.60
1:N:482:A:C6	1:N:483:C:C2	2.90	0.60
1:N:904:U:C4	1:N:905:U:C4	2.90	0.59
1:N:453:G:H2'	1:N:454:G:C8	2.38	0.59
1:N:39:G:C4	1:N:498:A:C2	2.90	0.59
1:N:310:G:C5	1:N:311:C:C5	2.91	0.59
1:N:803:G:C5	1:N:804:U:C5	2.91	0.59
1:N:1240:U:C2	1:N:1240:U:OP1	2.56	0.59
1:N:1266:G:H21	1:N:1269:A:H8	1.51	0.59
1:N:1071:C:H2'	1:N:1072:G:C8	2.38	0.58
1:N:172:A:C8	1:N:174:A:C8	2.91	0.58
1:N:903:G:C5	1:N:904:U:C4	2.91	0.58
1:N:449:G:C6	1:N:450:G:C6	2.91	0.58
1:N:738:C:C4	1:N:739:C:C4	2.92	0.58
1:N:1100:C:H4'	1:N:1102:A:H4'	1.86	0.58
1:N:795:C:C5	1:N:796:C:C4	2.92	0.58
1:N:1241:G:C8	1:N:1241:G:O5'	2.56	0.58
1:N:1343:G:C8	1:N:1344:C:C5	2.92	0.58
1:N:1423:G:C6	1:N:1424:U:C4	2.91	0.58
1:N:945:G:C6	1:N:1337:G:C5	2.92	0.58
1:N:272:C:H2'	1:N:273:U:O4'	2.04	0.57
1:N:39:G:C2	1:N:498:A:H2	2.22	0.57
1:N:1090:U:H2'	1:N:1091:U:C6	2.40	0.57
1:N:507:C:H3'	1:N:508:U:H5''	1.86	0.57
1:N:39:G:H1'	1:N:497:G:H21	1.70	0.57
1:N:410:G:H2'	1:N:429:U:C4	2.40	0.57
1:N:50:A:H1'	1:N:52:C:C6	2.39	0.57
1:N:1130:A:H61	1:N:1144:G:H1'	1.70	0.57
1:N:91:U:C5	1:N:92:U:C2	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1157:A:C4	1:N:1181:G:C6	2.93	0.57
1:N:1218:C:H2'	1:N:1219:A:C8	2.40	0.57
1:N:998:C:H42	1:N:1042:A:H61	1.52	0.57
1:N:486:U:H5''	1:N:486:U:C6	2.40	0.56
1:N:375:U:H3	1:N:389:A:H61	1.52	0.56
1:N:594:U:C4	1:N:595:A:C6	2.92	0.56
1:N:59:A:H1'	1:N:354:G:C2	2.41	0.56
1:N:78:A:C6	1:N:79:G:C6	2.93	0.56
1:N:514:C:H42	1:N:536:C:H42	1.53	0.56
1:N:150:U:C5	1:N:170:U:C5	2.93	0.56
1:N:894:G:C4	1:N:895:G:C8	2.93	0.56
1:N:439:U:C5	1:N:440:C:C5	2.93	0.56
1:N:713:G:C6	1:N:714:G:C6	2.94	0.56
1:N:32:A:H4'	1:N:48:C:H42	1.71	0.56
1:N:19:A:C2	1:N:917:G:C5	2.94	0.56
1:N:213:G:C8	1:N:214:C:C5	2.93	0.56
1:N:145:G:C2	1:N:178:C:C2	2.93	0.56
1:N:803:G:C2	1:N:804:U:C2	2.93	0.55
1:N:296:U:H2'	1:N:297:G:C8	2.41	0.55
1:N:298:A:H3'	1:N:299:G:C8	2.41	0.55
1:N:379:C:H2'	1:N:380:G:C8	2.41	0.55
1:N:243:A:H4'	1:N:244:U:H5''	1.89	0.55
1:N:240:G:C6	1:N:241:G:C5	2.94	0.55
1:N:53:A:C2	1:N:359:G:C5	2.94	0.55
1:N:856:C:H2'	1:N:857:C:C6	2.42	0.55
1:N:1123:U:H3	1:N:1150:A:H61	1.55	0.55
1:N:859:G:C6	1:N:860:A:C6	2.94	0.55
1:N:1500:A:C6	1:N:1501:C:C4	2.95	0.55
1:N:1011:C:C2	1:N:1019:A:C2	2.94	0.54
1:N:338:A:H61	1:N:351:G:H1	1.54	0.54
1:N:1500:A:C5	1:N:1501:C:C5	2.96	0.54
1:N:92:U:C4	1:N:93:U:C4	2.96	0.54
1:N:1262:C:H2'	1:N:1263:C:H5'	1.90	0.54
1:N:947:G:H1'	1:N:1332:A:H62	1.72	0.54
1:N:1436:U:H2'	1:N:1437:A:C8	2.42	0.54
1:N:973:G:H3'	1:N:974:A:H5''	1.90	0.54
1:N:1172:C:H2'	1:N:1173:U:C6	2.43	0.54
1:N:112:G:C2	1:N:330:C:C5	2.95	0.54
1:N:503:C:O2	1:N:510:A:H2	1.90	0.54
1:N:50:A:C2	1:N:52:C:N3	2.76	0.54
1:N:160:A:H2	1:N:347:G:C2	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1244:G:C6	1:N:1294:G:C6	2.96	0.54
1:N:391:G:C6	1:N:392:C:C4	2.96	0.54
1:N:102:G:C5	1:N:103:U:C5	2.96	0.53
1:N:1219:A:C6	1:N:1220:G:C6	2.95	0.53
1:N:1261:A:C6	1:N:1275:A:C8	2.97	0.53
1:N:1315:U:C4	1:N:1316:G:C6	2.97	0.53
1:N:171:A:H2'	1:N:172:A:C8	2.43	0.53
1:N:98:A:C5	1:N:99:C:C4	2.96	0.53
1:N:994:A:H61	1:N:1047:G:H1'	1.73	0.53
1:N:1316:G:N2	1:N:1319:A:C8	2.77	0.53
1:N:780:A:C2	1:N:803:G:N1	2.77	0.53
1:N:1433:A:H1'	1:N:1468:A:C2	2.44	0.53
1:N:124:C:C2	1:N:238:A:C2	2.96	0.53
1:N:79:G:H2'	1:N:80:A:C8	2.44	0.53
1:N:1058:G:C5	1:N:1059:C:C4	2.97	0.52
1:N:1084:G:C5'	1:N:1099:G:H22	2.20	0.52
1:N:105:G:N2	1:N:380:G:H5'	2.24	0.52
1:N:1434:A:H2'	1:N:1435:G:O4'	2.10	0.52
1:N:197:A:C2	1:N:198:G:C4	2.98	0.52
1:N:120:A:C2	1:N:122:G:N1	2.77	0.52
1:N:904:U:C5	1:N:905:U:C4	2.97	0.52
1:N:1072:G:C2	1:N:1073:U:C2	2.98	0.52
1:N:896:C:H2'	1:N:897:C:C6	2.44	0.52
1:N:829:G:C6	1:N:830:G:C5	2.98	0.52
1:N:811:C:H2'	1:N:812:G:H5'	1.92	0.52
1:N:417:G:C5	1:N:418:C:C4	2.98	0.52
1:N:1511:G:C6	1:N:1512:U:C4	2.98	0.52
1:N:258:G:C6	1:N:259:G:C5	2.98	0.52
1:N:449:G:C5	1:N:450:G:C5	2.98	0.52
1:N:514:C:H41	1:N:533:A:H2'	1.75	0.52
1:N:1244:G:C2	1:N:1245:C:C2	2.97	0.51
1:N:1383:C:C4	1:N:1384:C:C4	2.97	0.51
1:N:301:G:H2'	1:N:302:G:O4'	2.10	0.51
1:N:684:U:H3	1:N:706:A:H61	1.56	0.51
1:N:198:G:C6	1:N:220:G:C4	2.98	0.51
1:N:949:A:H61	1:N:1232:U:H3	1.57	0.51
1:N:978:A:C4	1:N:1319:A:C2	2.99	0.51
1:N:901:A:C5	1:N:902:G:H1'	2.45	0.51
1:N:664:G:H22	1:N:741:G:H22	1.59	0.51
1:N:68:G:C5	1:N:69:G:H1'	2.45	0.51
1:N:1255:G:H3'	1:N:1279:G:H22	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:79:G:C6	1:N:80:A:C6	2.98	0.51
1:N:214:C:C5	1:N:215:C:C5	2.99	0.51
1:N:160:A:C2	1:N:346:G:N1	2.78	0.51
1:N:620:C:C5	1:N:621:A:C5	2.98	0.51
1:N:1353:G:C2	1:N:1370:G:C2	2.99	0.51
1:N:64:G:C4	1:N:99:C:C4	2.99	0.51
1:N:917:G:H2'	1:N:918:A:C8	2.46	0.51
1:N:1058:G:C6	1:N:1059:C:C4	2.99	0.51
1:N:424:G:C6	1:N:425:G:C6	2.99	0.51
1:N:761:G:C5	1:N:762:U:C4	2.99	0.51
1:N:61:G:H21	1:N:379:C:H4'	1.76	0.51
1:N:1075:U:C5	1:N:1076:U:C5	2.99	0.51
1:N:1511:G:C6	1:N:1525:G:C6	2.99	0.51
1:N:1004:A:C5'	1:N:1024:G:H22	2.21	0.51
1:N:474:G:C6	1:N:475:C:N3	2.80	0.50
1:N:474:G:C5	1:N:475:C:C4	3.00	0.50
1:N:177:G:H4'	1:N:1448:C:H4'	1.94	0.50
1:N:141:G:H21	1:N:182:A:H61	1.59	0.50
1:N:911:U:H2'	1:N:912:C:C6	2.47	0.50
1:N:1065:U:H1'	1:N:1067:A:H61	1.77	0.50
1:N:984:C:H2'	1:N:985:C:C6	2.46	0.50
1:N:701:U:H5''	1:N:703:G:H5'	1.92	0.50
1:N:575:G:C5	1:N:821:G:C8	2.99	0.50
1:N:903:G:C4	1:N:904:U:C5	2.99	0.50
1:N:1164:G:C6	1:N:1165:U:C4	3.00	0.50
1:N:1159:U:H5	1:N:1162:C:H42	1.59	0.50
1:N:1129:C:N3	1:N:1144:G:C6	2.80	0.50
1:N:1482:G:C8	1:N:1482:G:H3'	2.46	0.50
1:N:827:U:H2'	1:N:870:U:H3	1.76	0.50
1:N:1416:G:C6	1:N:1417:G:C4	3.00	0.50
1:N:1406:U:H2'	1:N:1407:C:H5'	1.93	0.49
1:N:1140:C:C2	1:N:1141:C:C5	3.00	0.49
1:N:903:G:C6	1:N:904:U:C4	3.00	0.49
1:N:357:G:C5	1:N:358:U:C5	3.00	0.49
1:N:688:G:H5''	1:N:688:G:C8	2.47	0.49
1:N:228:A:N7	1:N:229:U:C4	2.80	0.49
1:N:80:A:C4	1:N:81:A:H1'	2.47	0.49
1:N:855:U:C5	1:N:856:C:C5	3.01	0.49
1:N:340:U:H3	1:N:349:A:H61	1.59	0.49
1:N:1350:A:N1	1:N:1373:G:C2	2.80	0.49
1:N:1239:A:C2	1:N:1241:G:C6	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1074:G:C5	1:N:1102:A:C2	3.01	0.49
1:N:856:C:C4	1:N:857:C:C4	3.00	0.49
1:N:197:A:H2	1:N:198:G:C4	2.30	0.49
1:N:198:G:C6	1:N:199:A:C6	3.01	0.49
1:N:1394:A:H3'	1:N:1395:C:H5'	1.94	0.49
1:N:979:C:C5	1:N:980:C:C6	3.01	0.49
1:N:626:G:H2'	1:N:627:G:C8	2.48	0.49
1:N:117:G:C5'	1:N:1425:U:H4'	2.43	0.49
1:N:213:G:C8	1:N:214:C:C6	3.01	0.49
1:N:1127:G:H22	1:N:1145:A:H2	1.61	0.49
1:N:1109:C:H3'	1:N:1110:A:C8	2.48	0.49
1:N:635:A:C2	1:N:636:U:C2	3.00	0.49
1:N:1023:U:H2'	1:N:1024:G:C8	2.48	0.49
1:N:1176:A:H61	1:N:1182:G:H1	1.61	0.48
1:N:914:A:H5''	1:N:914:A:H8	1.77	0.48
1:N:461:A:H3'	1:N:462:G:C5'	2.43	0.48
1:N:209:U:C4	1:N:211:G:N1	2.81	0.48
1:N:69:G:H2'	1:N:70:U:C6	2.48	0.48
1:N:1501:C:H3'	1:N:1504:G:C8	2.48	0.48
1:N:1110:A:C8	1:N:1111:A:C2	3.01	0.48
1:N:1144:G:C6	1:N:1145:A:C5	3.02	0.48
1:N:495:A:H1'	1:N:496:A:C5	2.47	0.48
1:N:1268:G:H2'	1:N:1269:A:O4'	2.13	0.48
1:N:628:G:H3'	1:N:629:A:C8	2.49	0.48
1:N:1363:A:C8	1:N:1365:G:C6	3.01	0.48
1:N:1198:G:C5	1:N:1199:U:C4	3.01	0.48
1:N:772:U:H2'	1:N:773:G:C8	2.48	0.48
1:N:94:G:N3	1:N:96:U:C4	2.81	0.48
1:N:1129:C:C5	1:N:1139:G:C8	3.01	0.48
1:N:1042:A:C6	1:N:1043:G:C6	3.01	0.48
1:N:693:G:H1	1:N:788:U:H4'	1.79	0.48
1:N:1254:A:N1	1:N:1255:G:C5	2.81	0.48
1:N:1260:G:C2	1:N:1276:G:O6	2.67	0.48
1:N:596:A:N6	1:N:644:U:H3	2.11	0.48
1:N:558:G:C8	1:N:559:A:H2'	2.49	0.48
1:N:98:A:C5	1:N:99:C:C5	3.02	0.48
1:N:59:A:C2	1:N:354:G:N7	2.82	0.48
1:N:240:G:N1	1:N:241:G:C4	2.82	0.48
1:N:771:G:H2'	1:N:772:U:O4'	2.13	0.48
1:N:1006:G:N2	1:N:1024:G:H1'	2.29	0.48
1:N:169:C:C4	1:N:170:U:C4	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:761:G:C6	1:N:762:U:C4	3.02	0.48
1:N:925:G:H1	1:N:1391:U:H1'	1.79	0.48
1:N:1216:A:H2'	1:N:1217:C:C6	2.48	0.48
1:N:1102:A:C2	1:N:1103:C:C2	3.02	0.48
1:N:199:A:C2	1:N:219:U:O2	2.67	0.48
1:N:985:C:C4	1:N:986:U:C4	3.01	0.48
1:N:208:U:C2	1:N:209:U:C4	3.02	0.48
1:N:934:C:C2	1:N:1344:C:C4	3.02	0.47
1:N:152:A:N6	1:N:170:U:C2	2.82	0.47
1:N:141:G:C6	1:N:223:A:C6	3.02	0.47
1:N:99:C:HO2'	1:N:100:G:H8	1.59	0.47
1:N:934:C:C5	1:N:1344:C:H2'	2.48	0.47
1:N:830:G:C6	1:N:831:A:C6	3.02	0.47
1:N:316:C:C5	1:N:351:G:H2'	2.49	0.47
1:N:503:C:H42	1:N:542:G:H1	1.63	0.47
1:N:272:C:C4	1:N:273:U:C4	3.02	0.47
1:N:439:U:C5	1:N:440:C:C4	3.02	0.47
1:N:1254:A:C2	1:N:1255:G:C4	3.03	0.47
1:N:1169:A:H2'	1:N:1170:A:O4'	2.15	0.47
1:N:851:G:H2'	1:N:852:G:C8	2.50	0.47
1:N:355:C:H2'	1:N:356:A:C8	2.49	0.47
1:N:723:U:H3	1:N:832:G:N2	2.13	0.47
1:N:153:C:C5	1:N:154:U:C5	3.03	0.47
1:N:64:G:N2	1:N:69:G:C5	2.83	0.47
1:N:78:A:C5	1:N:79:G:C6	3.03	0.47
1:N:895:G:C6	1:N:896:C:N3	2.83	0.47
1:N:974:A:C2	1:N:977:A:C2	3.03	0.47
1:N:207:C:H2'	1:N:208:U:C2	2.50	0.47
1:N:147:G:C2	1:N:148:G:C5	3.03	0.47
1:N:72:A:C4	1:N:73:C:C6	3.03	0.47
1:N:203:G:H1	1:N:206:C:H41	1.63	0.47
1:N:1088:G:C6	1:N:1089:G:C5	3.02	0.47
1:N:74:A:H5'	1:N:90:C:H5'	1.97	0.47
1:N:694:A:C6	1:N:695:A:C4	3.03	0.47
1:N:595:A:C2	1:N:596:A:N6	2.83	0.47
1:N:1049:U:H4'	1:N:1050:G:H5'	1.96	0.47
1:N:70:U:C5	1:N:94:G:C8	3.03	0.47
1:N:1144:G:O6	1:N:1145:A:C6	2.68	0.47
1:N:297:G:H22	1:N:299:G:H3'	1.80	0.47
1:N:974:A:H1'	1:N:976:G:H4'	1.96	0.47
1:N:1198:G:C6	1:N:1199:U:N3	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:233:C:O2'	1:N:264:C:C2	2.68	0.47
1:N:265:G:C8	1:N:267:C:C4	3.02	0.47
1:N:111:G:H22	1:N:330:C:N4	2.12	0.47
1:N:208:U:C2	1:N:209:U:C5	3.03	0.47
1:N:1353:G:C5	1:N:1354:U:C5	3.03	0.46
1:N:1500:A:C6	1:N:1501:C:C5	3.03	0.46
1:N:246:A:C5	1:N:282:A:N6	2.83	0.46
1:N:584:G:C6	1:N:585:G:C6	3.04	0.46
1:N:830:G:N1	1:N:857:C:C2	2.83	0.46
1:N:1256:A:H61	1:N:1277:C:H2'	1.80	0.46
1:N:267:C:H2'	1:N:268:U:C5	2.50	0.46
1:N:982:U:H4'	1:N:983:A:O5'	2.16	0.46
1:N:611:C:C5	1:N:612:C:C5	3.03	0.46
1:N:938:A:N6	1:N:939:G:C6	2.84	0.46
1:N:860:A:N6	1:N:861:G:C2	2.84	0.46
1:N:181:A:C8	1:N:194:C:C5	3.04	0.46
1:N:184:G:C6	1:N:185:U:C4	3.03	0.46
1:N:98:A:H2'	1:N:99:C:O4'	2.15	0.46
1:N:1239:A:C5	1:N:1241:G:C2	3.03	0.46
1:N:1219:A:C6	1:N:1220:G:C5	3.03	0.46
1:N:832:G:C5	1:N:855:U:N3	2.84	0.46
1:N:259:G:C6	1:N:260:G:C5	3.04	0.46
1:N:263:A:C2	1:N:264:C:C5	3.04	0.46
1:N:937:A:C2	1:N:1379:G:O6	2.69	0.46
1:N:665:A:C8	1:N:733:G:C2	3.03	0.46
1:N:855:U:C4	1:N:856:C:C4	3.03	0.46
1:N:1149:C:H2'	1:N:1150:A:C8	2.51	0.46
1:N:425:G:C5	1:N:426:U:C4	3.04	0.46
1:N:908:A:C2	1:N:909:A:C4	3.03	0.46
1:N:1097:C:C4	1:N:1098:C:C4	3.04	0.46
1:N:1126:U:C5	1:N:1281:C:H1'	2.51	0.46
1:N:265:G:H3'	1:N:267:C:C5	2.51	0.46
1:N:1009:U:C2	1:N:1021:A:C2	3.04	0.46
1:N:275:G:C8	1:N:275:G:H5''	2.51	0.46
1:N:482:A:C5	1:N:483:C:C2	3.04	0.46
1:N:171:A:C2	1:N:172:A:C2	3.04	0.46
1:N:1261:A:H61	1:N:1274:A:H2'	1.81	0.46
1:N:1058:G:C5	1:N:1059:C:C5	3.04	0.46
1:N:57:G:C6	1:N:58:C:C4	3.04	0.46
1:N:203:G:H1'	1:N:465:A:H61	1.80	0.46
1:N:19:A:C2	1:N:917:G:C6	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:403:C:N4	1:N:547:A:H5''	2.31	0.45
1:N:496:A:N1	1:N:497:G:C6	2.84	0.45
1:N:76:G:C6	1:N:77:A:C6	3.05	0.45
1:N:406:G:C6	1:N:407:U:C4	3.05	0.45
1:N:216:U:H3'	1:N:216:U:C6	2.51	0.45
1:N:373:A:C2	1:N:374:A:C4	3.04	0.45
1:N:708:C:C4	1:N:709:U:C4	3.05	0.45
1:N:1052:U:C2	1:N:1207:G:N1	2.84	0.45
1:N:69:G:C6	1:N:70:U:C4	3.04	0.45
1:N:1501:C:H2'	1:N:1504:G:N7	2.32	0.45
1:N:347:G:C5	1:N:348:G:C8	3.04	0.45
1:N:584:G:N2	1:N:879:C:H4'	2.32	0.45
1:N:183:C:N4	1:N:223:A:H2	2.15	0.45
1:N:73:C:H5''	1:N:73:C:C6	2.52	0.45
1:N:373:A:H2'	1:N:374:A:C8	2.51	0.45
1:N:254:G:OP2	1:N:266:G:H3'	2.16	0.45
1:N:1068:G:C6	1:N:1108:G:C6	3.04	0.45
1:N:1418:A:C8	1:N:1419:G:C8	3.04	0.45
1:N:1311:A:C2	1:N:1327:C:N3	2.85	0.45
1:N:69:G:C4	1:N:70:U:C5	3.05	0.45
1:N:496:A:C2	1:N:497:G:C5	3.04	0.45
1:N:198:G:C2	1:N:220:G:H1'	2.52	0.45
1:N:387:U:H2'	1:N:389:A:C8	2.52	0.45
1:N:1104:G:C6	1:N:1105:A:C6	3.04	0.45
1:N:687:A:C2	1:N:704:A:C6	3.05	0.45
1:N:779:C:H2'	1:N:780:A:C8	2.50	0.45
1:N:52:C:H3'	1:N:52:C:H6	1.81	0.45
1:N:1349:A:H1'	1:N:1374:A:C6	2.52	0.45
1:N:482:A:N7	1:N:483:C:C4	2.85	0.45
1:N:244:U:H4'	1:N:895:G:H1'	1.97	0.45
1:N:1257:A:H3'	1:N:1258:G:H5'	1.98	0.45
1:N:323:U:H2'	1:N:324:G:O4'	2.17	0.45
1:N:71:A:N6	1:N:98:A:C2	2.85	0.44
1:N:65:A:H2'	1:N:381:C:C4	2.52	0.44
1:N:677:U:H3	1:N:713:G:H1	1.65	0.44
1:N:904:U:C5	1:N:905:U:C5	3.05	0.44
1:N:484:G:N1	1:N:486:U:C6	2.85	0.44
1:N:57:G:C6	1:N:356:A:N1	2.85	0.44
1:N:148:G:H1'	1:N:1447:A:H1'	1.99	0.44
1:N:139:A:H61	1:N:224:U:H3	1.63	0.44
1:N:669:G:C6	1:N:670:G:C6	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1130:A:C5	1:N:1131:G:C4	3.05	0.44
1:N:1163:A:C6	1:N:1164:G:C5	3.05	0.44
1:N:1056:U:H3	1:N:1204:A:N6	2.15	0.44
1:N:1170:A:C5	1:N:1171:A:C4	3.05	0.44
1:N:1286:U:H2'	1:N:1287:A:H4'	1.99	0.44
1:N:804:U:C5	1:N:805:C:C4	3.06	0.44
1:N:319:G:H1'	1:N:1433:A:H61	1.83	0.44
1:N:807:A:C2	1:N:808:C:C2	3.06	0.44
1:N:858:G:H1	1:N:869:G:C2'	2.25	0.44
1:N:1304:G:C6	1:N:1305:G:N1	2.85	0.44
1:N:1056:U:C6	1:N:1056:U:H5''	2.53	0.44
1:N:752:G:H1'	1:N:754:C:N4	2.32	0.44
1:N:141:G:N1	1:N:223:A:C6	2.85	0.44
1:N:1423:G:C5	1:N:1424:U:C4	3.06	0.44
1:N:949:A:N3	1:N:971:G:C6	2.85	0.44
1:N:690:G:C6	1:N:691:G:C5	3.06	0.44
1:N:715:A:H2'	1:N:716:A:C8	2.52	0.44
1:N:1227:A:C6	1:N:1228:C:C2	3.05	0.44
1:N:131:A:H2	1:N:231:U:H3	1.66	0.44
1:N:1176:A:H3'	1:N:1177:G:H8	1.83	0.43
1:N:438:U:C5	1:N:494:G:C8	3.06	0.43
1:N:496:A:C2	1:N:497:G:C6	3.06	0.43
1:N:701:U:C5'	1:N:703:G:H5'	2.48	0.43
1:N:21:G:H1'	1:N:914:A:H61	1.83	0.43
1:N:255:G:C5	1:N:256:U:C4	3.06	0.43
1:N:1239:A:C4	1:N:1241:G:C5	3.06	0.43
1:N:795:C:C4	1:N:796:C:C4	3.07	0.43
1:N:52:C:H3'	1:N:52:C:C6	2.53	0.43
1:N:604:G:C6	1:N:605:U:N3	2.87	0.43
1:N:64:G:N1	1:N:69:G:C2	2.87	0.43
1:N:1345:U:C4	1:N:1377:A:C2	3.06	0.43
1:N:937:A:H2'	1:N:938:A:C8	2.52	0.43
1:N:256:U:H3	1:N:270:A:H61	1.66	0.43
1:N:1268:G:H21	1:N:1326:U:H1'	1.84	0.43
1:N:1075:U:C4	1:N:1076:U:C4	3.05	0.43
1:N:257:G:C6	1:N:258:G:C5	3.05	0.43
1:N:282:A:C5	1:N:283:U:C4	3.07	0.43
1:N:433:G:C5	1:N:434:U:C6	3.06	0.43
1:N:1299:A:C2	1:N:1301:U:C2	3.06	0.43
1:N:109:A:C6	1:N:326:G:C6	3.06	0.43
1:N:739:C:N4	1:N:740:U:C4	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:216:U:C3'	1:N:216:U:C6	3.02	0.43
1:N:473:U:H6	1:N:473:U:H3'	1.84	0.43
1:N:475:C:H2'	1:N:476:U:H6	1.83	0.43
1:N:177:G:C4'	1:N:1448:C:H4'	2.48	0.43
1:N:76:G:C6	1:N:77:A:C5	3.07	0.43
1:N:179:A:C6	1:N:180:U:N3	2.87	0.43
1:N:958:A:C2	1:N:959:A:C2	3.06	0.43
1:N:668:G:C5	1:N:669:G:C5	3.06	0.43
1:N:1483:A:H3'	1:N:1484:C:H6	1.83	0.43
1:N:644:U:H2'	1:N:645:G:C8	2.53	0.43
1:N:1074:G:C5	1:N:1075:U:C4	3.07	0.43
1:N:977:A:HO2'	1:N:1322:C:H5	1.64	0.43
1:N:115:G:C6	1:N:289:G:C6	3.06	0.43
1:N:98:A:N7	1:N:99:C:C5	2.86	0.43
1:N:98:A:C6	1:N:99:C:C4	3.07	0.43
1:N:494:G:C4	1:N:496:A:C8	3.07	0.43
1:N:340:U:H3	1:N:349:A:N6	2.15	0.43
1:N:640:A:C2	1:N:642:A:N6	2.87	0.43
1:N:1385:G:C6	1:N:1386:G:C6	3.06	0.43
1:N:1434:A:C4	1:N:1435:G:C8	3.06	0.43
1:N:109:A:C8	1:N:327:A:O4'	2.72	0.43
1:N:1306:A:H1'	1:N:1332:A:C5	2.54	0.43
1:N:64:G:H2'	1:N:99:C:H41	1.83	0.43
1:N:813:U:H4'	1:N:904:U:H5''	2.01	0.43
1:N:795:C:C6	1:N:796:C:C5	3.06	0.43
1:N:664:G:H21	1:N:726:C:H4'	1.83	0.43
1:N:107:G:H5''	1:N:134:G:H21	1.83	0.43
1:N:780:A:C2	1:N:803:G:C6	3.07	0.43
1:N:1144:G:C6	1:N:1145:A:C6	3.06	0.43
1:N:339:C:C4	1:N:340:U:C4	3.06	0.43
1:N:181:A:OP2	1:N:181:A:H3'	2.19	0.43
1:N:903:G:C5	1:N:904:U:C5	3.06	0.42
1:N:474:G:H2'	1:N:475:C:O4'	2.19	0.42
1:N:613:C:C2	1:N:628:G:C2	3.07	0.42
1:N:1443:C:C2	1:N:1444:U:C5	3.07	0.42
1:N:448:A:C4	1:N:487:A:C2	3.07	0.42
1:N:186:C:N3	1:N:187:G:C4	2.87	0.42
1:N:679:C:C4	1:N:680:C:C4	3.07	0.42
1:N:150:U:C2	1:N:151:A:C8	3.06	0.42
1:N:198:G:H2'	1:N:199:A:C8	2.54	0.42
1:N:949:A:N6	1:N:1232:U:H3	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:708:C:H2'	1:N:709:U:C6	2.54	0.42
1:N:648:A:H2'	1:N:649:A:C8	2.54	0.42
1:N:141:G:H22	1:N:195:A:H2	1.66	0.42
1:N:938:A:C6	1:N:939:G:C5	3.07	0.42
1:N:314:C:H2'	1:N:315:A:O5'	2.18	0.42
1:N:130:A:H2	1:N:232:G:H22	1.68	0.42
1:N:1255:G:C6	1:N:1279:G:C5	3.07	0.42
1:N:1433:A:H2'	1:N:1434:A:C8	2.54	0.42
1:N:1164:G:N2	1:N:1173:U:C2	2.88	0.42
1:N:664:G:H22	1:N:741:G:H1	1.68	0.42
1:N:255:G:C4	1:N:256:U:C6	3.08	0.42
1:N:1523:G:C6	1:N:1524:C:C4	3.07	0.42
1:N:1480:A:C5	1:N:1481:U:C5	3.07	0.42
1:N:951:G:C6	1:N:1231:G:C6	3.07	0.42
1:N:68:G:C4	1:N:69:G:H1'	2.54	0.42
1:N:375:U:H3	1:N:389:A:N6	2.16	0.42
1:N:934:C:HO2'	1:N:1344:C:H5	1.65	0.42
1:N:688:G:H2'	1:N:689:C:H6	1.84	0.42
1:N:584:G:C2	1:N:585:G:C4	3.08	0.42
1:N:651:C:C4	1:N:652:U:C4	3.07	0.42
1:N:1159:U:C6	1:N:1162:C:N4	2.88	0.42
1:N:687:A:N3	1:N:688:G:H1'	2.35	0.42
1:N:130:A:H2	1:N:232:G:N2	2.17	0.42
1:N:1213:A:C5	1:N:1215:G:C4	3.07	0.42
1:N:1135:U:H3	1:N:1138:G:H22	1.68	0.42
1:N:236:A:C2	1:N:237:G:C4	3.08	0.42
1:N:66:A:C4	1:N:67:C:C5	3.07	0.42
1:N:1434:A:C6	1:N:1435:G:C5	3.08	0.42
1:N:507:C:C3'	1:N:508:U:H5''	2.50	0.42
1:N:939:G:H2'	1:N:940:C:C6	2.55	0.42
1:N:652:U:C5	1:N:752:G:C2	3.07	0.42
1:N:337:G:C6	1:N:338:A:N6	2.88	0.42
1:N:1164:G:C2	1:N:1165:U:C2	3.07	0.42
1:N:183:C:H42	1:N:223:A:H2	1.66	0.42
1:N:203:G:H22	1:N:206:C:H41	1.67	0.42
1:N:585:G:C6	1:N:586:C:N3	2.87	0.42
1:N:608:A:H2'	1:N:609:A:H5'	2.01	0.42
1:N:990:C:H4'	1:N:1040:U:OP1	2.19	0.42
1:N:50:A:C2	1:N:361:G:N3	2.88	0.42
1:N:851:G:C6	1:N:852:G:O6	2.73	0.42
1:N:100:G:C6	1:N:101:A:C6	3.07	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:68:G:C8	1:N:69:G:C8	3.08	0.41
1:N:94:G:H4'	1:N:95:C:H5''	2.01	0.41
1:N:79:G:C5	1:N:80:A:C6	3.07	0.41
1:N:533:A:C5	1:N:536:C:C4	3.08	0.41
1:N:301:G:H4'	1:N:564:C:N3	2.35	0.41
1:N:1169:A:H2'	1:N:1170:A:C8	2.55	0.41
1:N:1126:U:C5	1:N:1281:C:C1'	3.03	0.41
1:N:763:G:C5	1:N:764:C:C5	3.08	0.41
1:N:669:G:H2'	1:N:670:G:O4'	2.20	0.41
1:N:215:C:C4	1:N:216:U:C2	3.08	0.41
1:N:829:G:C5	1:N:830:G:C8	3.08	0.41
1:N:473:U:H2'	1:N:474:G:O4'	2.20	0.41
1:N:465:A:C2	1:N:466:A:C4	3.08	0.41
1:N:585:G:C6	1:N:586:C:C4	3.08	0.41
1:N:492:C:H2'	1:N:493:A:C8	2.55	0.41
1:N:1176:A:H2'	1:N:1177:G:C8	2.55	0.41
1:N:299:G:C6	1:N:300:A:C6	3.08	0.41
1:N:684:U:C4	1:N:685:G:C5	3.08	0.41
1:N:773:G:C5	1:N:774:G:H1'	2.55	0.41
1:N:943:U:C2	1:N:944:G:C8	3.07	0.41
1:N:803:G:C4	1:N:804:U:C6	3.09	0.41
1:N:462:G:O6	1:N:468:A:H5''	2.20	0.41
1:N:1021:A:C2	1:N:1022:A:C8	3.09	0.41
1:N:404:G:H1	1:N:499:A:H62	1.68	0.41
1:N:1120:C:C4	1:N:1121:U:C5	3.09	0.41
1:N:1329:A:C5	1:N:1330:U:C5	3.08	0.41
1:N:92:U:C5	1:N:93:U:C4	3.09	0.41
1:N:830:G:C2	1:N:857:C:O2	2.73	0.41
1:N:255:G:C5	1:N:256:U:C5	3.09	0.41
1:N:655:A:C2	1:N:656:G:C4	3.08	0.41
1:N:872:A:C5	1:N:874:G:C8	3.09	0.41
1:N:933:G:C2	1:N:1385:G:C2	3.08	0.41
1:N:720:C:C5	1:N:720:C:OP2	2.73	0.41
1:N:606:G:H5''	1:N:607:A:H5'	2.02	0.41
1:N:64:G:C2	1:N:69:G:C6	3.08	0.41
1:N:934:C:C4	1:N:1345:U:C5	3.09	0.41
1:N:425:G:H2'	1:N:426:U:O4'	2.21	0.41
1:N:584:G:C6	1:N:585:G:C5	3.08	0.41
1:N:117:G:H4'	1:N:1425:U:C4'	2.50	0.41
1:N:381:C:C5	1:N:382:A:C6	3.08	0.41
1:N:59:A:C4	1:N:354:G:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:513:C:H2'	1:N:514:C:C6	2.56	0.41
1:N:603:U:H2'	1:N:604:G:C8	2.55	0.41
1:N:1530:G:C6	1:N:1531:A:C6	3.09	0.41
1:N:273:U:C4	1:N:274:A:C5	3.09	0.41
1:N:39:G:C2	1:N:498:A:C2	3.08	0.41
1:N:795:C:C4	1:N:796:C:N3	2.88	0.41
1:N:946:A:H2'	1:N:947:G:C8	2.56	0.41
1:N:160:A:C2	1:N:347:G:C2	3.07	0.41
1:N:684:U:N3	1:N:685:G:C4	2.89	0.41
1:N:684:U:C4	1:N:685:G:C6	3.09	0.41
1:N:1365:G:N1	1:N:1366:C:C2	2.89	0.41
1:N:1126:U:C6	1:N:1281:C:O4'	2.73	0.41
1:N:734:G:H2'	1:N:735:C:C6	2.55	0.41
1:N:555:U:H2'	1:N:556:C:C6	2.56	0.41
1:N:838:G:C6	1:N:839:C:C4	3.09	0.41
1:N:1033:G:H2'	1:N:1034:G:H5'	2.03	0.41
1:N:1254:A:C2	1:N:1284:C:C2	3.08	0.41
1:N:244:U:C6	1:N:894:G:N2	2.89	0.41
1:N:572:A:H2	1:N:917:G:C4	2.39	0.41
1:N:1501:C:C2	1:N:1504:G:C6	3.08	0.41
1:N:1046:A:C5	1:N:1047:G:C8	3.09	0.41
1:N:1363:A:C8	1:N:1365:G:C5	3.09	0.41
1:N:584:G:H2'	1:N:585:G:O4'	2.21	0.41
1:N:1056:U:H3	1:N:1204:A:H61	1.69	0.41
1:N:1255:G:H22	1:N:1276:G:N2	2.19	0.40
1:N:506:G:C2	1:N:507:C:C2	3.09	0.40
1:N:771:G:C2	1:N:772:U:C2	3.08	0.40
1:N:1287:A:H2'	1:N:1288:A:C8	2.56	0.40
1:N:131:A:C2	1:N:132:C:C2	3.10	0.40
1:N:14:U:H3	1:N:16:A:H3'	1.87	0.40
1:N:1179:A:C2	1:N:1180:A:C4	3.09	0.40
1:N:105:G:H21	1:N:380:G:C5'	2.29	0.40
1:N:462:G:H2'	1:N:462:G:N3	2.37	0.40
1:N:179:A:C5	1:N:180:U:C4	3.09	0.40
1:N:1530:G:C4	1:N:1531:A:C2	3.10	0.40
1:N:1285:A:OP1	1:N:1355:G:H5'	2.20	0.40
1:N:749:A:C5	1:N:750:C:C4	3.09	0.40
1:N:775:G:C6	1:N:776:G:C6	3.08	0.40
1:N:1502:A:C8	1:N:1505:G:N2	2.89	0.40
1:N:70:U:N3	1:N:94:G:C6	2.89	0.40
1:N:98:A:C6	1:N:99:C:N3	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1072:G:C2	1:N:1104:G:C2	3.10	0.40
1:N:506:G:C2	1:N:526:C:O2	2.75	0.40
1:N:86:G:H21	1:N:87:C:H41	1.69	0.40
1:N:68:G:C2	1:N:102:G:C2	3.10	0.40
1:N:804:U:C6	1:N:805:C:C5	3.09	0.40
1:N:411:A:C4	1:N:429:U:C4	3.09	0.40
1:N:453:G:O6	1:N:480:U:C4	2.74	0.40
1:N:795:C:C5	1:N:796:C:C5	3.09	0.40
1:N:572:A:N6	1:N:864:A:C5	2.90	0.40
1:N:830:G:C6	1:N:831:A:C5	3.09	0.40
1:N:258:G:C6	1:N:259:G:N7	2.89	0.40
1:N:1072:G:C6	1:N:1073:U:N3	2.90	0.40
1:N:1075:U:C4	1:N:1076:U:C5	3.09	0.40
1:N:1523:G:C6	1:N:1524:C:N3	2.90	0.40
1:N:342:C:C4	1:N:343:U:C4	3.09	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%)	454 (29%)	154 (10%)

All (454) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	N	3	A
1	N	4	U
1	N	5	U

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Mol	Chain	Res	Type
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	27	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	64	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	80	A
1	N	81	A
1	N	82	G
1	N	83	C
1	N	86	G
1	N	88	U
1	N	89	U
1	N	90	C
1	N	91	U
1	N	92	U
1	N	94	G

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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	134	G
1	N	135	C
1	N	138	G
1	N	141	G
1	N	143	A
1	N	159	G
1	N	161	A
1	N	163	C
1	N	164	G
1	N	173	U
1	N	174	A
1	N	177	G
1	N	181	A
1	N	182	A
1	N	183	C
1	N	195	A
1	N	197	A
1	N	198	G
1	N	199	A
1	N	202	G
1	N	205	A
1	N	207	C
1	N	208	U
1	N	209	U
1	N	210	C
1	N	211	G
1	N	212	G
1	N	214	C
1	N	219	U

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Mol	Chain	Res	Type
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	273	U
1	N	274	A
1	N	275	G
1	N	279	A
1	N	281	G
1	N	285	C
1	N	289	G
1	N	305	G
1	N	306	A
1	N	316	C
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	372	C
1	N	373	A
1	N	374	A

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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	518	C
1	N	523	A
1	N	527	G
1	N	530	G
1	N	531	U
1	N	532	A
1	N	533	A
1	N	534	U
1	N	536	C
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	566	G
1	N	567	G
1	N	572	A
1	N	573	A
1	N	574	A
1	N	575	G
1	N	576	C
1	N	577	G
1	N	579	A
1	N	588	G
1	N	595	A
1	N	596	A
1	N	604	G
1	N	606	G
1	N	607	A
1	N	610	U
1	N	619	U
1	N	629	A
1	N	631	C
1	N	633	G
1	N	642	A
1	N	649	A
1	N	661	G
1	N	665	A
1	N	702	A

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Mol	Chain	Res	Type
1	N	703	G
1	N	718	A
1	N	719	C
1	N	720	C
1	N	721	G
1	N	722	G
1	N	723	U
1	N	724	G
1	N	731	G
1	N	733	G
1	N	748	G
1	N	755	G
1	N	767	A
1	N	768	A
1	N	776	G
1	N	777	A
1	N	787	A
1	N	788	U
1	N	792	A
1	N	793	U
1	N	794	A
1	N	811	C
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	843	U
1	N	844	G
1	N	845	A
1	N	846	G
1	N	855	U
1	N	861	G
1	N	870	U
1	N	871	U
1	N	874	G

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Mol	Chain	Res	Type
1	N	884	U
1	N	885	G
1	N	889	A
1	N	890	G
1	N	914	A
1	N	922	G
1	N	926	G
1	N	927	G
1	N	932	C
1	N	934	C
1	N	935	A
1	N	942	G
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

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Mol	Chain	Res	Type
1	N	1036	A
1	N	1050	G
1	N	1052	U
1	N	1053	G
1	N	1054	C
1	N	1055	A
1	N	1063	C
1	N	1065	U
1	N	1066	C
1	N	1067	A
1	N	1079	G
1	N	1080	A
1	N	1085	U
1	N	1086	U
1	N	1087	G
1	N	1088	G
1	N	1091	U
1	N	1092	A
1	N	1093	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	1112	C
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	1144	G
1	N	1145	A

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Mol	Chain	Res	Type
1	N	1151	A
1	N	1152	A
1	N	1158	C
1	N	1159	U
1	N	1160	G
1	N	1161	C
1	N	1167	A
1	N	1168	U
1	N	1169	A
1	N	1181	G
1	N	1182	G
1	N	1188	A
1	N	1191	A
1	N	1192	C
1	N	1193	G
1	N	1194	U
1	N	1196	A
1	N	1197	A
1	N	1198	G
1	N	1200	C
1	N	1201	A
1	N	1202	U
1	N	1211	U
1	N	1213	A
1	N	1223	C
1	N	1224	U
1	N	1225	A
1	N	1226	C
1	N	1227	A
1	N	1228	C
1	N	1229	A
1	N	1238	A
1	N	1239	A
1	N	1240	U
1	N	1241	G
1	N	1252	A
1	N	1256	A
1	N	1258	G
1	N	1275	A
1	N	1278	G
1	N	1279	G
1	N	1280	A

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Mol	Chain	Res	Type
1	N	1281	C
1	N	1282	C
1	N	1283	U
1	N	1286	U
1	N	1287	A
1	N	1293	C
1	N	1297	G
1	N	1298	U
1	N	1299	A
1	N	1301	U
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	1341	U
1	N	1342	C
1	N	1346	A
1	N	1348	U
1	N	1353	G
1	N	1359	C
1	N	1362	A
1	N	1363	A
1	N	1364	U
1	N	1365	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	1398	A
1	N	1399	C
1	N	1400	C
1	N	1406	U

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Mol	Chain	Res	Type
1	N	1433	A
1	N	1440	U
1	N	1441	A
1	N	1446	A
1	N	1448	C
1	N	1452	C
1	N	1453	G
1	N	1454	G
1	N	1469	C
1	N	1470	U
1	N	1476	A
1	N	1490	U
1	N	1492	A
1	N	1493	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	1517	G
1	N	1518	A
1	N	1529	G
1	N	1530	G
1	N	1531	A
1	N	1532	U
1	N	1533	C
1	N	1534	A

All (154) 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	47	C
1	N	51	A
1	N	60	A

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Mol	Chain	Res	Type
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	90	C
1	N	94	G
1	N	109	A
1	N	115	G
1	N	119	A
1	N	120	A
1	N	129	A
1	N	130	A
1	N	134	G
1	N	167	A
1	N	168	G
1	N	178	C
1	N	181	A
1	N	197	A
1	N	198	G
1	N	204	G
1	N	210	C
1	N	243	A
1	N	244	U
1	N	246	A
1	N	251	G
1	N	256	U
1	N	266	G
1	N	267	C
1	N	274	A
1	N	275	G
1	N	279	A
1	N	305	G
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

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Mol	Chain	Res	Type
1	N	373	A
1	N	412	A
1	N	421	U
1	N	428	G
1	N	429	U
1	N	438	U
1	N	451	A
1	N	467	U
1	N	481	G
1	N	484	G
1	N	485	U
1	N	495	A
1	N	496	A
1	N	499	A
1	N	500	G
1	N	508	U
1	N	511	C
1	N	531	U
1	N	532	A
1	N	535	A
1	N	547	A
1	N	559	A
1	N	563	A
1	N	566	G
1	N	575	G
1	N	615	G
1	N	641	U
1	N	686	U
1	N	721	G
1	N	723	U
1	N	733	G
1	N	752	G
1	N	754	C
1	N	792	A
1	N	793	U
1	N	817	C
1	N	818	G
1	N	819	A
1	N	865	A
1	N	870	U
1	N	884	U
1	N	913	A

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Mol	Chain	Res	Type
1	N	914	A
1	N	934	C
1	N	941	G
1	N	957	U
1	N	960	U
1	N	966	G
1	N	974	A
1	N	982	U
1	N	991	U
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	1112	C
1	N	1129	C
1	N	1136	C
1	N	1151	A
1	N	1160	G
1	N	1167	A
1	N	1168	U
1	N	1185	G
1	N	1191	A
1	N	1196	A
1	N	1197	A
1	N	1201	A
1	N	1224	U
1	N	1228	C
1	N	1239	A
1	N	1251	A
1	N	1263	C
1	N	1282	C
1	N	1283	U
1	N	1285	A
1	N	1299	A
1	N	1303	C
1	N	1319	A
1	N	1331	G
1	N	1335	U
1	N	1336	C

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Mol	Chain	Res	Type
1	N	1337	G
1	N	1341	U
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	1391	U
1	N	1396	A
1	N	1399	C
1	N	1432	G
1	N	1440	U
1	N	1494	G
1	N	1498	U
1	N	1502	A
1	N	1506	U
1	N	1517	G
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 carbohydrates 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 ⓘ

There are no chain breaks in this entry.